

To : Cemex 034 file



4014 NW 13th STREET  
GAINESVILLE, FL 32609-1923  
352/377-5822 ■ FAX/377-7158

KA 521-06-20  
October 18, 2007

RECEIVED

OCT 22 2007

BUREAU OF AIR REGULATION

Mr. Al Linero  
Florida Department of Environmental Protection  
Bureau of Air Regulation  
2600 Blair Stone Road MS 5500  
Tallahassee, Florida 32399-2400

**RE: CEMEX Cement, Inc.; Brooksville Cement Plant  
Draft Permit No. 0530010-034-AC; Comments**

Dear Al:

CEMEX Cement, Inc. (CEMEX) is in receipt of the Draft Permit No. 0530010-034-AC, regarding Indirect Firing and NOx conditions. CEMEX is submitting the following comment on the draft permit.

Specific Condition 5.b.: CEMEX requests to change the averaging period from 30-operating day rolling to 12-month rolling average. The annual potential NOx emissions of 786.5 tons per year (each Kiln) were established to avoid PSD (not as BACT). Because of this, an annual (12-month) rolling average is the appropriate averaging time.

Please feel free to contact me at (352) 377-5822 or [FBergen@kooglerassociates.com](mailto:FBergen@kooglerassociates.com), or Mr. Charles Walz, CEMEX, at (352) 799-2011, if you have any questions regarding this submittal.

Very truly yours,

KOGLER & ASSOCIATES, INC.

Fawn W. Bergen, P.E.  
Project Engineer

FB

cc: J. Gill, CEMEX  
T. Vielhauer, FDEP  
C. Walz, CEMEX



# Florida Department of Environmental Protection

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

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

September 13, 2007

*Electronically sent – Received Receipt requested.*

[michaelanthony.gonzales@cemexusa.com](mailto:michaelanthony.gonzales@cemexusa.com)

Mr. Michael A. Gonzales, Plant Manager  
Brooksville Cement Plant  
CEMEX Cement, Inc.  
16301 Ponce De Leon Boulevard  
Brooksville, Florida 34614-0849

Re: DEP File No. 0530010-034-AC  
Brooksville Cement Plant – Lines 1 and 2  
Indirect Firing and Nitrogen Oxides (NO<sub>x</sub>) Conditions

Dear Mr. Gonzales:

Enclosed is the draft air construction permit modification to extend the expiration date of previously issued Permit No. 0530010-034-AC and to amend certain conditions related to the NO<sub>x</sub> emission limits on Kilns 1 and 2 at the Brooksville Cement Plant in Hernando County. The Department's Intent to Issue Air Construction Permit Modification and the Public Notice of Intent to Issue Air Construction Permit are included.

The Public Notice must be published one time only as soon as possible in a newspaper of general circulation in the area affected, pursuant to the requirements of Chapter 50, Florida Statutes. Proof of publication, such as a newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in denial of the permit.

Please submit any written comments you wish to have considered concerning the Department's proposed action to A.A. Linero, Program Administrator, at the letterhead address. If you have any questions regarding this matter, please contact Teresa Heron at (850)921-9529 or Mr. Linero at (850)921-9523.

Sincerely,

Trina Vielhauer, Chief  
Bureau of Air Regulation

TLV/aal/th

Enclosures

In the Matter of an  
Application for Permit by:

Mr. Michael Gonzales, Plant Manager  
Brooksville Cement Plant  
CEMEX Cement, Inc.  
16301 Ponce De Leon Boulevard  
Brooksville, Florida 34614-0849

DEP File No. 0530010-034-AC  
Brooksville Cement Plant  
Portland Cement Kilns 1 and 2  
Indirect Firing and Nitrogen Oxides (NO<sub>x</sub>)  
Modification of Permit No. 0530010-026-AC  
Hernando County, Florida

**INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION**

The Department of Environmental Protection (the Department) gives notice of its intent to issue an air construction permit modification (copy of draft permit modification enclosed) to CEMEX Cement, Inc. for the proposed project as detailed in the application specified above for the reasons stated below.

CEMEX applied to the Department for an air construction permit modification to extend the construction period to covert Kilns 1 and 2 to indirect firing. They also requested to change the NO<sub>x</sub> limits from pounds per ton of feed on a 30-day rolling basis to pounds per hour on a 12-month basis.

The Department has permitting jurisdiction under the provisions of Chapter 403.087 Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. The Department has determined that an air construction permit modification is required.

The Department evaluated the application and intends to issue a modification that: extends the original permit until December 31, 2008 to further convert the kilns to indirect firing; defers the applicability date of the limitation of 1.21 pounds of NO<sub>x</sub> per ton of preheater feed (lb/ton feed) set forth in the original permit until October 31, 2008; and sets an interim limit of 1.5 lb NO<sub>x</sub>/ton feed.

The Department intends to issue this air construction permit modification based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-110.106(7)(a)1., F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Construction Permit Modification. The notice shall be published one time only in the legal advertisement section of a newspaper of general circulation in the area affected. Rule 62-110.106(7)(b), F.A.C., requires that the applicant cause the notice to be published as soon as possible after notification by the Department of its intended action. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting 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 Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114; Fax 850/ 922-6979). You must provide proof of publication within seven days of publication, pursuant to Rule 62-110.106(5), F.A.C. No permitting action for which published notice is required shall be granted until proof of publication of notice is made by furnishing a uniform affidavit in substantially the form prescribed in section 50.051, F.S. to the office of the Department issuing the permit. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rules 62-110.106(9) & (11), F.A.C.

The Department will issue the final construction permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of 14 days from the date of publication of the enclosed Public Notice. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the construction permit with the attached conditions unless a timely petition for an administrative determination (hearing) is filed pursuant to sections 120.569 and 120.57, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within 14 days of receipt of this notice of intent. 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 within 14 days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department 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 discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

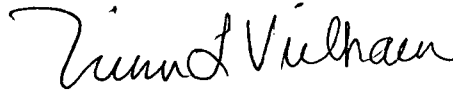
A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the 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 how and when petitioner received notice of the agency 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 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 Department'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 Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above. Mediation is not available in this proceeding.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief  
Bureau of Air Regulation

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Intent to Issue Air Construction Permit (including the Public Notice and the Draft permit modification) and all copies were sent electronically (with Received Receipt) before the close of business on **September 13, 2007** to the persons listed:

Michael A. Gonzales, CEMEX: [michaelanthony.gonzales@cemexusa.com](mailto:michaelanthony.gonzales@cemexusa.com)

Charles Walz, CEMEX: [charles.walz@cemexusa.com](mailto:charles.walz@cemexusa.com)

Amarjits Gill, CEMEX: [amarjits.gill@cemexusa.com](mailto:amarjits.gill@cemexusa.com)

Mara Nasca, DEP SWD: [mara.nasca@dep.state.fl.us](mailto:mara.nasca@dep.state.fl.us)

John Koogler, P.E. K&A: [jkoogler@kooglerassociates.com](mailto:jkoogler@kooglerassociates.com)

Fawn Bergen, P.E., K&A: [fbergen@kooglerassociates.com](mailto:fbergen@kooglerassociates.com)

Administrator, Hernando County [gkuhl@hernandocounty.us](mailto:gkuhl@hernandocounty.us)

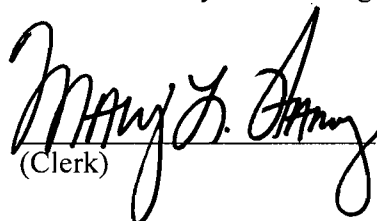
Segundo J. Fernandez, Esq., OHF&C: [sfernandez@ohfc.com](mailto:sfernandez@ohfc.com)

Jim Little, EPA Region 4: [little.james@epamail.epa.gov](mailto:little.james@epamail.epa.gov)

Kathy Forney, EPA Region 4: [forney.kathleen@epamail.epa.gov](mailto:forney.kathleen@epamail.epa.gov)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED,**  
on this date, pursuant to §120.52, Florida Statutes,  
with the designated Department Clerk, receipt of  
which is hereby acknowledged.



(Clerk)

9/13/07  
(Date)

**PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION**

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP File No. 0530010-034-AC

CEMEX Cement, Inc.  
Brooksville Cement Plant Kilns 1 and 2

Hernando County

The Department of Environmental Protection (the Department) gives notice of its intent to issue an air construction permit modification to CEMEX Cement, Inc. to extend and modify a permit to install indirect firing systems and selective non-catalytic reduction (SNCR) systems on Kilns 1 and 2 at the Brooksville Cement Plant on Highway 98, northwest of Brooksville in Hernando County. A determination of best available control technology (BACT) was not required. The applicant's name and business address are CEMEX Cement, Inc., 16301 Ponce De Leon Boulevard, Brooksville, Florida 34614-0849.

The plant currently consists of: two portland cement lines designated as Lines 1 and 2, including two dry process preheater kilns (Kilns 1 and 2), two clinker coolers, associated raw mills, finish mills, cement and clinker handling equipment, coal handling equipment, silos, air pollution control devices, raw material extraction and receiving facilities and product shipping facilities.

Both kilns were originally equipped with direct firing systems and mono-channel burners. In 2005, CEMEX converted the kilns to semi-direct firing with multi-channel burners and added SNCR systems for nitrogen oxides (NO<sub>x</sub>) control. In 2006, the Department issued a permit to further convert the kilns to indirect firing systems while keeping the multi-channel burners or installing newer ones. The Department also reduced the NO<sub>x</sub> limits from 1.83 to 1.21 pounds per ton of preheater feed (lb/ton) on Kiln 1 and from 1.72 to 1.21 lb/ton on Kiln 2 effective upon complete installation of the indirect firing system, but no later than June 30, 2007. The emission limits apply on a rolling 30-operating day basis.

Cemex has not completed the indirect firing project and has requested relief on the NO<sub>x</sub> limit because of inherently greater uncontrolled emissions from the semi-direct firing systems. The Department will extend the permit through December 31, 2008 to complete the conversion to indirect firing systems and to submit a Title V Operation Permit Revision. The Department will defer applicability of the 1.21 lb NO<sub>x</sub>/ton limitation until October 31, 2008 but will set an interim limit of 1.5 lb/ton.

The Department will issue the final air construction permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of 14 days from the date of publication of this Public Notice of Intent to Issue Air Construction Permit. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative determination (hearing) is filed pursuant to sections 120.569 and 120.57 of the Florida Statutes (F.S.), before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department

at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within 14 days of receipt of this notice of intent. 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 within 14 days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), F.S., however, any person who asked the Department 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 discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code (F.A.C.).

A petition that disputes the material facts on which the Department'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 how and when petitioner received notice of the agency 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 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 Department'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 Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection  
Bureau of Air Regulation  
111 S. Magnolia Drive, Suite 4  
Tallahassee, Florida, 32301  
Telephone: 850/488-0114  
Fax: 850/922-6979

Department of Environmental Protection  
Southwest District Office  
13051 N. Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: (813) 632-7600  
Fax: (813) 632-7668

The complete project file includes the permit application, draft air construction permit, technical evaluation, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact Teresa Heron at MS 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, or [Teresa.Heron@dep.state.fl.us](mailto:Teresa.Heron@dep.state.fl.us) or call 850/921-9529 for additional information. Key documents may also be viewed at: [www.dep.state.fl.us/Air/permitting/construction.htm](http://www.dep.state.fl.us/Air/permitting/construction.htm) and clicking on CEMEX in the cement plant category.

DRAFT

*Electronically Sent – Received Receipt Requested*

michaelanthony.gonzales@cemexusa.com

Mr. Michael A. Gonzales, Plant Manager  
Brooksville Cement Plant  
CEMEX Cement, Inc.  
16301 Ponce De Leon Boulevard  
Brooksville, Florida 34614-0849

Re: DEP File 0530010-034-AC  
Modification of Permit No. 0530010-026-AC  
Expiration and Nitrogen Oxides (NO<sub>x</sub>) Conditions  
CEMEX Brooksville Plant

Dear Mr. Gonzales:

The Department received your application on June 27, 2007 to modify Permit No. 0530010-026-AC that authorized installation of indirect firing systems, new burners and selective non-catalytic reduction (SNCR) systems on Kilns 1 and 2.

The expiration date is hereby extended from June 30, 2007 to December 31, 2008 to allow sufficient time to complete the installation of the indirect firing systems and to submit a Title V Operation Permit Revision. The Department will defer the applicability date of the NO<sub>x</sub> emission limit established in Permit No. 0530010-026-AC and will include an interim limit.

The Department notes that a significant increase in actual NO<sub>x</sub> emissions occurred and that short term permitted emission limits were exceeded at Kilns 1 and 2 following their initial conversion from direct to semi-direct firing in early 2005 until actual and regular use of the SNCR systems in early September of 2005. The final step of converting the semi-direct systems to indirect firing will facilitate permanent compliance with the established limit of 1.21 pounds of NO<sub>x</sub> per ton of preheater feed (lb NO<sub>x</sub>/ton feed) feed on a rolling 30-operating day basis.

Section III, Specific Condition 5 of Permit No. 0530010-026-AC is hereby modified as shown in strikethrough (~~strikethrough~~) and double-underlined format as follows:

**EMISSIONS AND TESTING REQUIREMENTS**

5. Emissions Standards:

- a. Beginning July 1, 2007 until 30 operating days after installation of the indirect firing system or October 31, 2008, whichever is earlier, NO<sub>x</sub> emissions from each kiln shall exceed neither 1.50 lb/ton of dry preheater feed nor 225 lb/hour on a rolling 30-operating day average as measured by the required continuous emissions monitoring system (CEMS).



b. Beginning 30 operating days after ~~Upon complete~~ installation of the indirect firing system, ~~but no later than June 30, 2007 or October 31, 2008, whichever is earlier,~~ emissions from each kiln shall not exceed the following emissions standards for NO<sub>x</sub>. These limits replace any previous NO<sub>x</sub> emission limits for Kilns 1 and 2.

Pollutant	Emission Limit	Averaging Time	Compliance Method	Basis
NO <sub>x</sub>	1.21 lb/ton of dry preheater feed	30- <u>operating</u> day rolling	CEMS	Applicant Request PSD Avoidance
	181.5 lb/hr (as NO <sub>2</sub> )			

*{Note: In combination with the annual dry preheater feed rate limitation of 1,300,000 tons per year per kiln, the above emissions standard effectively limits annual potential NO<sub>x</sub> emissions from each unit to 786.5 tons/year. The NO<sub>x</sub> limit is equivalent to approximately 2.0 lb/ton of clinker.}*

[Applicant Request; Rules 62-4.070(3), 62-212.400(12), F.A.C.]

A copy of this letter shall be filed with the referenced permit and shall become part of the permit. This permitting decision is issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this permitting modification (order) has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

\_\_\_\_\_  
Joseph Kahn, Director  
Division of Air Resource Management

TLV/aal/th

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Permit Modification and all copies were sent electronically (with Received Receipt) before the close of business on \_\_\_\_\_ to the persons listed below:

Michael A. Gonzales, CEMEX: [michaelanthony.gonzales@cemexusa.com](mailto:michaelanthony.gonzales@cemexusa.com)  
Charles Walz, CEMEX: [charles.walz@cemexusa.com](mailto:charles.walz@cemexusa.com)  
Amarjits Gill, CEMEX: [amarjits.gill@cemexusa.com](mailto:amarjits.gill@cemexusa.com)  
Mara Nasca, DEP SWD: [mara.nasca@dep.state.fl.us](mailto:mara.nasca@dep.state.fl.us)  
John Koogler, P.E. K&A: [jkoogler@kooglerassociates.com](mailto:jkoogler@kooglerassociates.com)  
Fawn Bergen, P.E., K&A: [fbergen@kooglerassociates.com](mailto:fbergen@kooglerassociates.com)  
Segundo J. Fernandez, Esq., OHF&C: [sfernandez@ohfc.com](mailto:sfernandez@ohfc.com)  
Jim Little, EPA Region 4: [Little.James@epamail.epa.gov](mailto:Little.James@epamail.epa.gov)  
Kathy Forney, EPA Region 4: [Forney.Kathleen@epamail.epa.gov](mailto:Forney.Kathleen@epamail.epa.gov)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED,**  
on this date, pursuant to §120.52, Florida Statutes,  
with the designated Department Clerk, receipt of  
which is hereby acknowledged.

\_\_\_\_\_  
(Clerk)

\_\_\_\_\_  
(Date)

relief sought by the petitioner, stating precisely the action 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 Department'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 Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above. Mediation is not available in this proceeding.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief  
Bureau of Air Regulation

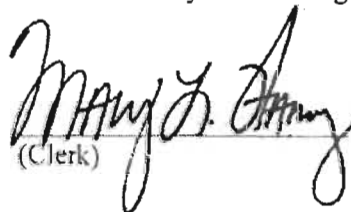
#### CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Intent to Issue Air Construction Permit (including the Public Notice and the Draft permit modification) and all copies were sent electronically (with Received Receipt) before the close of business on **September 13, 2007** to the persons listed:

- ✓ Michael A. Gonzales, CEMEX: [michaelanthony.gonzales@cemexusa.com](mailto:michaelanthony.gonzales@cemexusa.com)
- ✓ Charles Walz, CEMEX: [charles.walz@cemexusa.com](mailto:charles.walz@cemexusa.com)
- ✓ Amarjits Gill, CEMEX: [amarjits.gill@cemexusa.com](mailto:amarjits.gill@cemexusa.com)
- ✓ Mara Nasca, DEP SWD: [mara.nasca@dep.state.fl.us](mailto:mara.nasca@dep.state.fl.us) - Zhang
- ✓ John Koogler, P.E. K&A: [jkoogler@kooglerassociates.com](mailto:jkoogler@kooglerassociates.com)
- ✓ Fawn Bergen, P.E., K&A: [fbergen@kooglerassociates.com](mailto:fbergen@kooglerassociates.com)
- ✓ Administrator, Hernando County: [gkuhl@hernandocounty.us](mailto:gkuhl@hernandocounty.us)
- ✓ Segundo J. Fernandez, Esq., OHF&C: [sfernandez@ohfc.com](mailto:sfernandez@ohfc.com)
- ✓ Jim Little, EPA Region 4: [little.james@epamail.epa.gov](mailto:little.james@epamail.epa.gov)
- ✓ Kathy Forney, EPA Region 4: [forney.kathleen@epamail.epa.gov](mailto:forney.kathleen@epamail.epa.gov)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED,**  
on this date, pursuant to §120.52, Florida Statutes,  
with the designated Department Clerk, receipt of  
which is hereby acknowledged.



(Clerk)

9/13/07  
(Date)

## Harvey, Mary

---

**From:** Zhang-Torres  
**To:** Harvey, Mary  
**Sent:** Thursday, September 13, 2007 4:06 PM  
**Subject:** Read: CEMEX Cement, Inc. - DEP File #0530010-034-AC-DRAFT

Your message

**To:** Zhang-Torres  
**Subject:** FW: CEMEX Cement, Inc. - DEP File #0530010-034-AC-DRAFT  
**Sent:** 9/13/2007 2:59 PM

was read on 9/13/2007 4:06 PM.

## Harvey, Mary

---

**From:** John Koogler [jkoogler@kooglerassociates.com]  
**Sent:** Thursday, September 13, 2007 5:56 PM  
**To:** Harvey, Mary  
**Subject:** RE: CEMEX Cement, Inc. - DEP File #0530010-034-AC-DRAFT

Thank you.

John B Koogler  
Koogler & Associates, Inc  
4014 NW 13th St  
Gainesville, FL 32609  
352/377-5822  
jkoogler@kooglerassociates.com

---

**From:** Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]  
**Sent:** Thursday, September 13, 2007 2:56 PM  
**To:** michaelanthony.gonzales@cemexusa.com; charles.walz@cemexusa.com; amarjits.gill@cemexusa.com; Nasca, Mara; jkoogler@kooglerassociates.com; fbergen@kooglerassociates.com; gkuhl@hernandocounty.us; sfernandez@ohfc.com; little.james@epamail.epa.gov; forney.kathleen@epamail.epa.gov  
**Cc:** Linero, Alvaro; Adams, Patty; Gibson, Victoria  
**Subject:** CEMEX Cement, Inc. - DEP File #0530010-034-AC-DRAFT

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The 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>.

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Thank you,

DEP, Bureau of Air Regulation

9/14/2007

**Harvey, Mary**

---

**From:** michaelanthony.gonzales@cemex.com  
**Sent:** Friday, September 14, 2007 4:38 PM  
**To:** Harvey, Mary  
**Subject:** Re: CEMEX Cement, Inc. - DEP File #0530010-034-AC-DRAFT



**Michael A. Gonzales**

Plant Manager - Brooksville Plant - United States of America  
Office : +1(352)799-2057 , Fax: +1(352)754-9836  
Address: 16301 Ponce de Leon Blvd. Brooksville, FL 34614  
E-Mail: michaelanthony.gonzales@cemexusa.com  
www.cemexusa.com

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9/14/2007

## Harvey, Mary

---

**From:** Forney.Kathleen@epamail.epa.gov  
**Sent:** Thursday, September 13, 2007 2:55 PM  
**To:** Harvey, Mary  
**Cc:** Little.James@epamail.epa.gov  
**Subject:** Re: CEMEX Cement, Inc. - DEP File #0530010-034-AC-DRAFT

Thanks  
Katy

-----  
Katy R. Forney  
Air Permits Section  
EPA - Region 4  
61 Forsyth St., SW  
Atlanta, GA 30024

Phone: 404-562-9130  
Fax: 404-562-9019

"Harvey, Mary"  
<Mary.Harvey@dep  
.state.fl.us>

09/13/2007 02:55  
PM

To  
<michaelanthony.gonzales@cemexusa  
.com>,  
<charles.walz@cemexusa.com>,  
<amarjits.gill@cemexusa.com>,  
"Nasca, Mara"  
<Mara.Nasca@dep.state.fl.us>,  
<jkoogler@kooglerassociates.com>,  
<fbergen@kooglerassociates.com>,  
<gkuhl@hernandocounty.us>,  
<sfernandez@ohfc.com>, James  
Little/R4/USEPA/US@EPA, Kathleen  
Forney/R4/USEPA/US@EPA

CC  
"Linero, Alvaro"  
<Alvaro.Linero@dep.state.fl.us>,  
"Adams, Patty"  
<Patty.Adams@dep.state.fl.us>,  
"Gibson, Victoria"  
<Victoria.Gibson@dep.state.fl.us>

Subject  
CEMEX Cement, Inc. - DEP File  
#0530010-034-AC-DRAFT

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## Harvey, Mary

---

**From:** Segundo J. Fernandez [sfernandez@ohfc.com]  
**To:** Harvey, Mary  
**Sent:** Wednesday, September 19, 2007 12:21 PM  
**Subject:** Read: FW: CEMEX Cement, Inc. - DEP File #0530010-034-AC-DRAFT

Your message

To: sfernandez@ohfc.com  
Subject:

was read on 9/19/2007 12:21 PM.



**Harvey, Mary**

**From:** Charles E Walz [charles.walz@cemex.com]  
**Sent:** Wednesday, September 19, 2007 11:30 AM  
**To:** Harvey, Mary  
**Cc:** Amarjit S Gill; fbergen@kooglerassociates.com; gkuhl@hernandocounty.us; Adams, Patty; sfernandez@ohfc.com  
**Subject:** Re: FW: CEMEX Cement, Inc. - DEP File #0530010-034-AC-DRAFT  
**Attachments:** 034COVER.pdf; 034INTENT.pdf; 034NOTICE.pdf; 034PerMod.pdf

Yes we received, hope to publish intent shortly

**Charles E Walz**

Environmental Manager - Brooksville Plant - United States of America  
 Office : +1352(799)2011 , Fax: +1352(754)9836 , Mobile: +1352(279)1415  
 Address: 16301 Ponce de Leon Blvd Brooksville, Florida 34614  
 E-Mail: Charles.Walz@CEMEXUSA.com  
 www.cemexusa.com

"Harvey, Mary" <Mary.Harvey@dep.state.fl.us>

09/19/2007 10:37 AM

To: Charles E Walz/US/Cemex@CEMEX, Amarjit S Gill/US/Cemex@Cemex,  
 <fbergen@kooglerassociates.com>, <gkuhl@hernandocounty.us>,  
 <sfernandez@ohfc.com>

cc "Adams, Patty" <Patty.Adams@dep.state.fl.us>

Subject FW: CEMEX Cement, Inc. - DEP File #0530010-034-AC-DRAFT

On Thursday, September 13<sup>th</sup> I email you permit #0530010-034-AC-DRAFT. The reason for my email is that I never received back a read receipt. If you have received this permit; please email me your confirmation so I have clear the files for that portion of the permit.

Thanks,  
 Mary Harvey

**From:** Harvey, Mary

**Sent:** Thursday, September 13, 2007 2:56 PM

**To:** 'michaelanthony.gonzales@cemexusa.com'; 'charles.walz@cemexusa.com'; 'amarjits.gill@cemexusa.com'; Nasca, Mara; 'jkoogler@kooglerassociates.com'; 'fbergen@kooglerassociates.com'; 'gkuhl@hernandocounty.us'; 'sfernandez@ohfc.com'; 'little.james@epamail.epa.gov'; 'forney.kathleen@epamail.epa.gov'

**Cc:** Linero, Alvaro; Adams, Patty; Gibson, Victoria

9/19/2007



KOGLER & ASSOCIATES, INC.  
*ENVIRONMENTAL SERVICES*  
4014 NW 13th STREET  
GAINESVILLE, FL 32609-1923  
352/377-5822 ■ FAX/377-7158

KA 521-06-20  
June 26, 2007

RECEIVED

JUN 27 2007

BUREAU OF AIR REGULATION

Ms. Trina Vielhauer  
Florida Department of Environmental Protection  
Bureau of Air Regulation  
2600 Blair Stone Road MS 5500  
Tallahassee, Florida 32399-2400

**RE: *CEMEX Cement, Inc.; Brooksville Cement Plant  
AC Permit Application to Extend Permit No. 0530010-026-AC and Revise NO<sub>x</sub> Limit;  
Indirect Firing System***

Dear Trina:

CEMEX Cement, Inc. (CEMEX) is submitting the enclosed Air Construction Permit Application to revise the NO<sub>x</sub> emissions limit and to request a 2-year extension of Air Construction Permit No. 0530010-026-AC (Installation of Indirect Firing System and SNCR). CEMEX is still moving forward with this project and have been able to achieve reduced NO<sub>x</sub> emissions. However, additional time is needed to complete the installation of the Indirect Firing System to achieve reduced NO<sub>x</sub> emissions on a continuous basis.

In addition, CEMEX is requesting a revision to the NO<sub>x</sub> limit contained in the referenced construction permit to remove the pounds per ton (lb/ton) limit. Since the NO<sub>x</sub> emission limits for both Kiln No. 1 and Kiln No. 2 were established to avoid PSD, and not as BACT, CEMEX is requesting NO<sub>x</sub> emission limits stated in terms of pounds per hour (lb/hr) and tons per year (TPY) only. The NO<sub>x</sub> limit of 1.21 lb/ton preheater feed can be included as an equivalent emission limit but not as an enforceable limit.

The rationale for this request is that the annual NO<sub>x</sub> emission limit from each kiln was established at 786.5 TPY to avoid a PSD review; including the avoidance of a BACT determination. This being the case, the only assurance the Department needs is that the annual NO<sub>x</sub> emissions from each kiln will not exceed 786.5 TPY.

To achieve this assurance, it is suggested that the permit contain an hourly NO<sub>x</sub> emissions limit of 179.6 lb/hr (786.5 TPY divided by 8,760 hours per year) and annual emission limit of 786.5 TPY, both 12-month rolling averages. These limits can be verified with the certified NO<sub>x</sub> CEMS.

Please feel free to contact me at (352) 377-5822 or [FBergen@kooglerassociates.com](mailto:FBergen@kooglerassociates.com), or Mr. Charles Walz, CEMEX, at (352) 799-2011, if you have any questions regarding this submittal.

Very truly yours,

KOOGLER & ASSOCIATES, INC.



Fawn W. Bergen, P.E.  
Project Engineer

FB

cc: J. Gill, CEMEX  
A. Linero, FDEP  
C. Walz, CEMEX

## FINAL DETERMINATION

CEMEX Cement, Inc.

Brooksville Cement Plant

DEP File No. 0530010-034-AC

Following an application submitted by CEMEX Cement for its Brooksville Cement Plant, the Florida Department of Environmental Protection (Department) distributed an "Intent to Issue Air Construction Permit" on September 13, 2007 to:

- Extend previously issued permit No. 0530010-034-AC until December 31, 2008 to complete the conversion of Kilns 1 and 2 to indirect firing;
- Defer the applicability date of the limitation of 1.21 pounds of nitrogen oxides (NO<sub>x</sub>) per ton of preheater feed (lb/ton feed) set forth in permit No. 0530010-034 until October 31, 2008; and
- Set an interim limit of 1.5 lb NO<sub>x</sub>/ton feed.

CEMEX published the Public Notice in *Hernando Today* on October 30, 2007 and provided to the Department the required proof of publication.

The Department received comments only from the applicant's consultant, Koogler and Associates on October 22, 2007. CEMEX requested that the Department change the averaging period for the final NO<sub>x</sub> limit from 30-operating day (rolling) to 12-month (rolling). They commented that the annual potential emissions of 786.5 tons per year per kiln were established to avoid the requirements the Prevention of Significant Deterioration rules and not as best available control technology.

After discussion with the company, it was agreed that the averaging time will remain as drafted by the Department. The final value equates to 2.0 lb/ton of clinker and is among the lowest of any kiln in the country.


The final decision by the Department is to issue the permit as drafted.

## Memorandum

# Florida Department of Environmental Protection

---

To: Joseph Kahn, Director

From: Trina Vielhauer   
Al Linero

Date: November 20, 2007

Subject: CEMEX permit

Attached for your review and signature is a minor modification to a CEMEX permit. The company has not yet installed indirect-fired burners (authorized by prior permit) and therefore is requesting an extension of a prior permit's expiration date. In addition, the company requested additional time to meet the stringent NOx emission limit set forth in that permit. The company commented during the public comment period; however, no changes were made to the permit.

I recommend your signature.



# Florida Department of Environmental Protection

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

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

November 21, 2007

*Electronically Sent – Received Receipt Requested*

[michaelanthony.gonzales@cemexusa.com](mailto:michaelanthony.gonzales@cemexusa.com)

Mr. Michael A. Gonzales, Plant Manager  
Brooksville Cement Plant  
CEMEX Cement, Inc.  
16301 Ponce De Leon Boulevard  
Brooksville, Florida 34614-0849

Re: DEP File 0530010-034-AC  
Modification of Permit No. 0530010-026-AC  
Expiration and Nitrogen Oxides (NO<sub>x</sub>) Conditions  
CEMEX Brooksville Plant

Dear Mr. Gonzales:

The Department received your application on June 27, 2007 to modify Permit No. 0530010-026-AC that authorized installation of indirect firing systems, new burners and selective non-catalytic reduction (SNCR) systems on Kilns 1 and 2.

The expiration date is hereby extended from June 30, 2007 to December 31, 2008 to allow sufficient time to complete the installation of the indirect firing systems and to submit a Title V Operation Permit Revision. The Department will defer the applicability date of the NO<sub>x</sub> emission limit established in Permit No. 0530010-026-AC and will include an interim limit.

The Department notes that a significant increase in actual NO<sub>x</sub> emissions occurred and that short term permitted emission limits were exceeded at Kilns 1 and 2 following their initial conversion from direct to semi-direct firing in early 2005 until actual and regular use of the SNCR systems in early September of 2005. The final step of converting the semi-direct systems to indirect firing will facilitate permanent compliance with the established limit of 1.21 pounds of NO<sub>x</sub> per ton of preheater feed (lb NO<sub>x</sub>/ton feed) feed on a rolling 30-operating day basis.

Section III, Specific Condition 5 of Permit No. 0530010-026-AC is hereby modified as shown in strikethrough (~~strikethrough~~) and double-underlined format as follows:

## EMISSIONS AND TESTING REQUIREMENTS

### 5. Emissions Standards:

- a. Beginning July 1, 2007 until 30 operating days after installation of the indirect firing system or October 31, 2008, whichever is earlier, NO<sub>x</sub> emissions from each kiln shall exceed neither 1.50 lb/ton of dry preheater feed nor 225 lb/hour on a rolling 30-operating day average as measured by the required continuous emissions monitoring system (CEMS).
- b. Beginning 30 operating days after ~~Upon complete~~ installation of the indirect firing system, ~~but no later than June 30, 2007 or October 31, 2008, whichever is earlier,~~ emissions from each kiln shall not exceed the following emissions standards for NO<sub>x</sub>. These limits replace any previous NO<sub>x</sub> emission limits for Kilns 1 and 2.

Pollutant	Emission Limit	Averaging Time	Compliance Method	Basis
NO <sub>x</sub>	1.21 lb/ton of dry preheater feed	30- <u>operating</u> day rolling	CEMS	Applicant Request PSD Avoidance
	181.5 lb/hr (as NO <sub>2</sub> )			


{Note: In combination with the annual dry preheater feed rate limitation of 1,300,000 tons per year per kiln, the above emissions standard effectively limits annual potential NO<sub>x</sub> emissions from each unit to 786.5 tons/year. The NO<sub>x</sub> limit is equivalent to approximately 2.0 lb/ton of clinker.}

[Applicant Request; Rules 62-4.070(3), 62-212.400(12), F.A.C.]

A copy of this letter shall be filed with the referenced permit and shall become part of the permit. This permitting decision is issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this permitting modification (order) has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

  
\_\_\_\_\_  
Joseph Kahn, Director  
Division of Air Resource Management

TLV/aal/th

#### CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Permit Modification and all copies were sent electronically (with Received Receipt) before the close of business on 11/21/07 to the persons listed below:

Michael A. Gonzales, CEMEX: [michaelanthony.gonzales@cemexusa.com](mailto:michaelanthony.gonzales@cemexusa.com)  
Charles Walz, CEMEX: [charles.walz@cemexusa.com](mailto:charles.walz@cemexusa.com)  
Amarjits Gill, CEMEX: [amarjits.gill@cemexusa.com](mailto:amarjits.gill@cemexusa.com)  
Mara Nasca, DEP SWD: [mara.nasca@dep.state.fl.us](mailto:mara.nasca@dep.state.fl.us)  
John Koogler, P.E. K&A: [jkoogler@kooglerassociates.com](mailto:jkoogler@kooglerassociates.com)  
Fawn Bergen, P.E., K&A: [fbergen@kooglerassociates.com](mailto:fbergen@kooglerassociates.com)  
Segundo J. Fernandez, Esq., OHF&C: [sfernandez@ohfc.com](mailto:sfernandez@ohfc.com)  
Jim Little, EPA Region 4: [Little.James@epamail.epa.gov](mailto:Little.James@epamail.epa.gov)  
Katy Forney, EPA Region 4: [Forney.Kathleen@epamail.epa.gov](mailto:Forney.Kathleen@epamail.epa.gov)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

  
\_\_\_\_\_  
(Clerk) 11/21/07 (Date)

**Harvey, Mary**

**From:** Harvey, Mary  
**Sent:** Wednesday, November 21, 2007 11:56 AM  
**To:** 'michaelanthony.gonzales@cemexusa.com'; 'charles.walz@cemexusa.com'; 'amarjits.gill@cemexusa.com'; Nasca, Mara; 'jkoogler@kooglerassociates.com'; 'fbergen@kooglerassociates.com'; 'sfernandez@ohfc.com'; 'Mr. Jim Little, EPA Region 4'; 'Ms. Katy Forney, EPA Region 4'  
**Cc:** Linero, Alvaro; Adams, Patty; Gibson, Victoria  
**Subject:** CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC  
**Attachments:** 0530010.034.AC.F\_pdf.zip

Tracking:	Recipient	Delivery	Read
✓	'michaelanthony.gonzales@cemexusa.com'		
✓	'charles.walz@cemexusa.com'		
✓	'amarjits.gill@cemexusa.com'		
✓	Nasca, Mara	Delivered: 11/21/2007 11:56 AM	Read: 11/21/2007 12:00 PM
✓	'jkoogler@kooglerassociates.com'		
✓	'fbergen@kooglerassociates.com'		
✓	'sfernandez@ohfc.com'		
	'Mr. Jim Little, EPA Region 4'		
	'Ms. Katy Forney, EPA Region 4'		
✓	Linero, Alvaro	Delivered: 11/21/2007 11:56 AM	Read: 11/21/2007 11:56 AM
✓	Adams, Patty	Delivered: 11/21/2007 11:56 AM	Read: 11/21/2007 12:07 PM
	Gibson, Victoria	Delivered: 11/21/2007 11:56 AM	

Dear Sir/Madam:

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<http://www.adobe.com/products/acrobat/readstep.html>.

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Thank you,

DEP, Bureau of Air Regulation

11/30/2007



**Harvey, Mary**

**From:** Harvey, Mary  
**Sent:** Wednesday, November 21, 2007 11:56 AM  
**To:** 'michaelanthony.gonzales@cemexusa.com'; 'charles.walz@cemexusa.com'; 'amarjits.gill@cemexusa.com'; Nasca, Mara; 'jkoogler@kooglerassociates.com'; 'fbergen@kooglerassociates.com'; 'sfernandez@ohfc.com'; 'Mr. Jim Little, EPA Region 4'; 'Ms. Katy Forney, EPA Region 4'  
**Cc:** Linero, Alvaro; Adams, Patty; Gibson, Victoria  
**Subject:** CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC  
**Attachments:** 0530010.034.AC.F\_pdf.zip

Tracking:	Recipient	Delivery	Read
	'michaelanthony.gonzales@cemexusa.com'		
	'charles.walz@cemexusa.com'		
	'amarjits.gill@cemexusa.com'		
	Nasca, Mara	Delivered: 11/21/2007 11:56 AM	Read: 11/21/2007 12:00 PM
	'jkoogler@kooglerassociates.com'		
	'fbergen@kooglerassociates.com'		
	'sfernandez@ohfc.com'		
	'Mr. Jim Little, EPA Region 4'		
	'Ms. Katy Forney, EPA Region 4'		
	Linero, Alvaro	Delivered: 11/21/2007 11:56 AM	Read: 11/21/2007 11:56 AM
	Adams, Patty	Delivered: 11/21/2007 11:56 AM	Read: 11/21/2007 12:07 PM
	Gibson, Victoria	Delivered: 11/21/2007 11:56 AM	

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<http://www.adobe.com/products/acrobat/readstep.html>.

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Thank you,

DEP, Bureau of Air Regulation

11/30/2007

## Harvey, Mary

---

**From:** Amarjit S Gill [amarjits.gill@cemex.com]  
**Sent:** Monday, December 03, 2007 3:13 PM  
**To:** Harvey, Mary  
**Cc:** Charles E Walz; fbergen@kooglerassociates.com; Katy Forney, EPA Region 4; little.james@epamail.epa.gov  
**Subject:** Re: FW: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

I have received the permit.

Amarjit (Jeet) Singh Gill, P.E.  
Director, Air Permitting  
CEMEX USA Operations  
Phone (713) 722-5944  
Fax (713) 722-5116  
Cell (713) 249-7609  
e-Mail amarjits.gill@cemexusa.com

"Harvey, Mary" <Mary.Harvey@dep.state.fl.us>

11/30/2007 03:25 PM

To Charles E Walz/US/Cemex@CEMEX, Amarjit S Gill/US/Cemex@Cemex, <fbergen@kooglerassociates.com>, <little.james@epamail.epa.gov>, "Katy Forney, EPA Region 4" <forney.kathleen@epa.gov>

cc

Subject FW: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

Hi-

This permit file was emailed on 11/21. If you have received this file please email me back. I need the read receipt for tracking purposes. Thanks and have a good day.

Mary

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

**From:** Harvey, Mary

**Sent:** Wednesday, November 21, 2007 11:56 AM

**To:** 'michaelanthony.gonzales@cemexusa.com'; 'charles.walz@cemexusa.com'; 'amarjits.gill@cemexusa.com'; Nasca, Mara; 'jkoogler@kooglerassociates.com'; 'fbergen@kooglerassociates.com'; 'sfernandez@ohfc.com'; 'Mr.

12/3/2007

## Harvey, Mary

---

**From:** Charles E Walz [charles.walz@cemex.com]  
**Sent:** Friday, November 30, 2007 4:30 PM  
**To:** Harvey, Mary  
**Subject:** FW: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

### Return Receipt

Your document: FW: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC -  
Modification of Permit No. 0530010-026-AC

was received by: charles.walz@cemex.com

at: 11/30/2007 16:29:57 EST

## Harvey, Mary

---

**From:** Charles E Walz [charles.walz@cemex.com]  
**Sent:** Friday, November 30, 2007 4:30 PM  
**To:** Harvey, Mary  
**Subject:** FW: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

### Return Receipt

Your document: FW: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

was received by: charles.walz@cemex.com

at: 11/30/2007 16:29:57 EST

CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

## Harvey, Mary

---

**From:** Adams, Patty  
**To:** Harvey, Mary  
**Sent:** Wednesday, November 21, 2007 12:07 PM  
**Subject:** Read: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

Your message

**To:** 'michaelanthony.gonzales@cemexusa.com'; 'charles.walz@cemexusa.com'; 'amarjits.gill@cemexusa.com'; Nasca, Mara; 'jkoogler@kooglerassociates.com'; 'fbergen@kooglerassociates.com'; 'sfernandez@ohfc.com'; 'Mr. Jim Little, EPA Region 4'; 'Ms. Katy Forney, EPA Region 4'  
**Cc:** Linero, Alvaro; Adams, Patty; Gibson, Victoria  
**Subject:** CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC  
**Sent:** 11/21/2007 11:56 AM

was read on 11/21/2007 12:07 PM.

## Harvey, Mary

---

**From:** Linero, Alvaro  
**To:** Harvey, Mary  
**Sent:** Wednesday, November 21, 2007 11:56 AM  
**Subject:** Read: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

### Your message

**To:** 'michaelanthony.gonzales@cemexusa.com'; 'charles.walz@cemexusa.com'; 'amarjits.gill@cemexusa.com'; Nasca, Mara; 'jkoogler@kooglerassociates.com'; 'fbergen@kooglerassociates.com'; 'sfernandez@ohfc.com'; 'Mr. Jim Little, EPA Region 4'; 'Ms. Katy Forney, EPA Region 4'  
**Cc:** Linero, Alvaro; Adams, Patty; Gibson, Victoria  
**Subject:** CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC  
**Sent:** 11/21/2007 11:56 AM

was read on 11/21/2007 11:56 AM.

## Harvey, Mary

---

**From:** Nasca, Mara  
**To:** Harvey, Mary  
**Sent:** Wednesday, November 21, 2007 12:00 PM  
**Subject:** Read: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

Your message

**To:** 'michaelanthony.gonzales@cemexusa.com'; 'charles.walz@cemexusa.com'; 'amarjits.gill@cemexusa.com'; Nasca, Mara; 'jkoogler@kooglerassociates.com'; 'fbergen@kooglerassociates.com'; 'sfernandez@ohfc.com'; 'Mr. Jim Little, EPA Region 4'; 'Ms. Katy Forney, EPA Region 4'  
**Cc:** Linero, Alvaro; Adams, Patty; Gibson, Victoria  
**Subject:** CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC  
**Sent:** 11/21/2007 11:56 AM

was read on 11/21/2007 12:00 PM.

## Harvey, Mary

---

**From:** John Koogler [jkoogler@kooglerassociates.com]  
**Sent:** Wednesday, November 21, 2007 2:08 PM  
**To:** Harvey, Mary  
**Subject:** RE: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

Thanks Mary.

John

John B Koogler  
Koogler & Associates, Inc  
4014 NW 13th St  
Gainesville, FL 32609  
352/377-5822  
jkoogler@kooglerassociates.com

---

**From:** Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]  
**Sent:** Wednesday, November 21, 2007 11:56 AM  
**To:** michaelanthony.gonzales@cemexusa.com; charles.walz@cemexusa.com; amarjits.gill@cemexusa.com; Nasca, Mara; jkoogler@kooglerassociates.com; fbergen@kooglerassociates.com; sfernandez@ohfc.com; Mr. Jim Little, EPA Region 4; Ms. Katy Forney, EPA Region 4  
**Cc:** Linero, Alvaro; Adams, Patty; Gibson, Victoria  
**Subject:** CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The 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>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

11/21/2007



## Harvey, Mary

---

**From:** Segundo J. Fernandez [sfernandez@ohfc.com]  
**To:** undisclosed-recipients  
**Sent:** Wednesday, November 21, 2007 3:13 PM  
**Subject:** Read: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

Your message

To: sfernandez@ohfc.com  
Subject:

was read on 11/21/2007 3:13 PM.

## Harvey, Mary

---

**From:** Michael A Gonzales [michaelanthony.gonzales@cemex.com]  
**Sent:** Monday, November 26, 2007 3:06 PM  
**To:** Harvey, Mary  
**Subject:** Re: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC



**Michael A. Gonzales**

Plant Manager - Brooksville Plant - United States of America  
Office : +1(352)799-2057 , Fax: +1(352)754-9836  
Address: 16301 Ponce de Leon Blvd. Brooksville, FL 34614  
E-Mail: michaelanthony.gonzales@cemexusa.com  
www.cemexusa.com

This email message and any attachments are for the sole use of the intended recipient(s) and contain confidential and/or privileged information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message and any attachments.

"Harvey, Mary" <Mary.Harvey@dep.state.fl.us>

11/21/2007 11:55 AM

To Michael A Gonzales/US/Cemex@CEMEX, Charles E Walz/US/Cemex@CEMEX, Amarjit S Gill/US/Cemex@Cemex, "Nasca, Mara" <Mara.Nasca@dep.state.fl.us>, <jkoogler@kooglerassociates.com>, <fbergen@kooglerassociates.com>, <sfernandez@ohfc.com>, "Mr. Jim Little, EPA Region 4" <Little.James@epa.gov>, "Ms. Katy Forney, EPA Region 4" <Forney.Kathleen@epa.gov>  
cc "Linero, Alvaro" <Alvaro.Linero@dep.state.fl.us>, "Adams, Patty" <Patty.Adams@dep.state.fl.us>, "Gibson, Victoria" <Victoria.Gibson@dep.state.fl.us>

Subject CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

11/26/2007

**Harvey, Mary**


---

**From:** Fawn Bergen [fbergen@kooglerassociates.com]  
**Sent:** Friday, November 30, 2007 4:37 PM  
**To:** Harvey, Mary  
**Subject:** RE: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

Hi Mary-

I have received it.

**Fawn W. Bergen, PE**  
 Project Engineer  
 Koogler & Associates, Inc.  
 4014 NW 13th Street  
 Gainesville, FL 32609  
 (352)377-5822 x29  
 (352)377-7158 fax  
 fbergen@kooglerassociates.com

CONFIDENTIALITY: This message is the property of Koogler and Associates, Inc. The information contained in this message may contain legally privileged and confidential information. It is intended only for the use of the person(s) or addressee(s) named above. If you are not the intended recipient, you are hereby notified that any review, disclosure, distribution or duplication of this communication, and the information contained in it, is strictly prohibited. If you are not the intended recipient, please contact the sender by electronic mail and immediately destroy all copies of the original message.

---

**From:** Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]  
**Sent:** Friday, November 30, 2007 4:26 PM  
**To:** charles.walz@cemexusa.com; amarjits.gill@cemexusa.com; fbergen@kooglerassociates.com; little.james@epamail.epa.gov; Katy Forney, EPA Region 4  
**Subject:** FW: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

Hi-  
 This permit file was emailed on 11/21. If you have received this file please email me back. I need the read receipt for tracking purposes. Thanks and have a good day.  
 Mary

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

**From:** Harvey, Mary  
**Sent:** Wednesday, November 21, 2007 11:56 AM  
**To:** 'michaelanthony.gonzales@cemexusa.com'; 'charles.walz@cemexusa.com'; 'amarjits.gill@cemexusa.com';

12/3/2007

## Harvey, Mary

---

**From:** Charles E Walz [charles.walz@cemex.com]  
**Sent:** Friday, November 30, 2007 4:47 PM  
**To:** Harvey, Mary  
**Cc:** Amarjit S Gill; fbergen@kooglerassociates.com; Katy Forney, EPA Region 4; little.james@epamail.epa.gov  
**Subject:** Re: FW: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC  
**Attachments:** CEMEX Cement - DEP File No. 0530010-034-AC.pdf

I have received and read this email

Thanks



**Charles E Walz**

Environmental Manager - Brooksville Plant - United States of America  
Office : +1352(799)2011 , Fax: +1352(754)9836 , Mobile: +1352(279)1415  
Address: 16301 Ponce de Leon Blvd Brooksville, Florida 34614  
E-Mail: Charles.Walz@CEMEXUSA.com  
www.cemexusa.com

"Harvey, Mary" <Mary.Harvey@dep.state.fl.us>

11/30/2007 04:25 PM

To Charles E Walz/US/Cemex@CEMEX, Amarjit S Gill/US/Cemex@Cemex, <fbergen@kooglerassociates.com>, <little.james@epamail.epa.gov>, "Katy Forney, EPA Region 4" <forney.kathleen@epa.gov>

cc

Subject FW: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

Hi-

This permit file was emailed on 11/21. If you have received this file please email me back. I need the read receipt for tracking purposes. Thanks and have a good day.

Mary

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W.*

12/3/2007

## Harvey, Mary

---

**From:** Amarjit S Gill [amarjits.gill@cemex.com]  
**Sent:** Friday, November 30, 2007 4:47 PM  
**To:** Harvey, Mary  
**Subject:** FW: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

### Return Receipt

Your document: FW: CEMEX Cement, Inc. - DEP File No. 0530010-034-AC - Modification of Permit No. 0530010-026-AC

was received by: amarjits.gill@cemex.com

at: 11/30/2007 15:48:58



November 8, 2007

UPS Overnight Delivery

Ms. Teresa Heron  
Department of Environmental Protection  
Bureau of Air Regulation  
111 South Magnolia Drive, Suite 4  
Tallahassee, Florida 32399-2400

RECEIVED

NOV 09 2007

BUREAU OF AIR REGULATION

RE: CEMEX Cement, Inc  
Brooksville Cement Kilns 1 and 2  
NOTICE OF APPLICATION  
Proof of Publication  
DEP File No. 0530010-034-AC  
Hernando County

Dear Teresa:

Please find enclosed the original Proof of Publication of the public notice for the above referenced Notice of Application. The public notice is dated October 30, 2007 and ran in the Hernando Today section of the Tampa Tribune.

If there are any questions concerning this information please contact me at (352) 799-2011

Sincerely,

CEMEX Cement, Inc.

Charles E. Walz  
Environmental Manager

cc: File

**Brooksville Plant**

16301 Ponce De Leon Boulevard, Brooksville, FL 34614. USA, (352) 796-7241, Fax (352) 754-9836

RECEIVED

NOV 09 2007

HERNANDO TODAY

Published Daily  
 BROOKSVILLE, HERNANDO, FLORIDA  
 STATE OF FLORIDA  
 COUNTY OF HERNANDO:

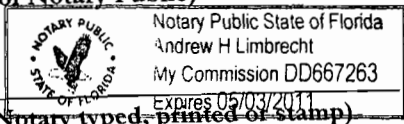
Before the undersigned authority personally appeared **Judy Warnock**, who on oath says that he/she is Legal Ad Coordinator of the Hernando Today/Hernando Sunday, a daily newspaper published at Brooksville in Hernando County, Florida: that the attached copy of the advertisement, being a Legal Notice in the matter of **Public Notice of Intent Cemex, Air Construction Permit Modification** in the **N/A** Court, was published in said newspaper in the issues of **October 30, 2007**

Affiant further says that the said Hernando Today/Hernando Sunday is a newspaper published at Brooksville, in said Hernando County, Florida, and that the said newspaper has heretofore been continuously published in said Hernando County, Florida, each week and has been entered as a second class mail matter at the post office in Brooksville, in said Hernando County, Florida for a period of 1 year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

*Judy Warnock*  
 (Signature of Affiant)

Sworn to and subscribed before me this 30th day of October, 2007

*Andrew N. Limbrecht*  
 (Signature of Notary Public)



(Name of Notary typed, printed or stamp)

Personally Known  or  
 Produced Identification \_\_\_\_\_  
 Type of Identification Produced

RECEIVED

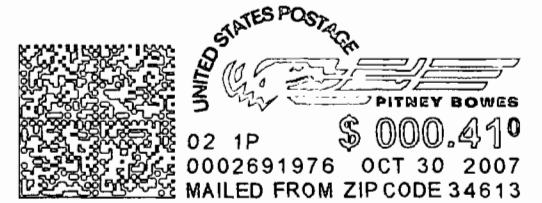
NOV 09 2007

BUREAU OF AIR REGULATION

Legal Notices	Legal Notices	Legal Notices		
<b>PUBLIC NOTICE OF INTENT TO ISSUE                  AIR CONSTRUCTION PERMIT MODIFICATION</b> STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DEP File No. 0530010-034-AC CEMEX Cement, Inc. Brooksville Cement Plant Kilns 1 and 2 Hernando County				
<p>The Department of Environmental Protection (the Department) gives notice of its intent to issue an air construction permit modification to CEMEX Cement, Inc. to extend and modify a permit to install indirect firing systems and selective non-catalytic reduction (SNCR) systems on Kilns 1 and 2 at the Brooksville Cement Plant on Highway 98, northwest of Brooksville in Hernando County. A determination of best available control technology (BACT) was not required. The applicant's name and business address are CEMEX Cement, Inc., 16301 Ponce De Leon Boulevard, Brooksville, Florida 34614-0849.</p> <p>The plant currently consists of: two portland cement lines designated as Lines 1 and 2, including two dry process preheater kilns (Kilns 1 and 2), two clinker coolers, associated raw mills, finish mills, cement and clinker handling equipment, coal handling equipment, silos, air pollution control devices, raw material extraction and receiving facilities and product shipping facilities.</p> <p>Both kilns were originally equipped with direct firing systems and mono-channel burners. In 2005, CEMEX converted the kilns to semi-direct firing with multi-channel burners and added SNCR systems for nitrogen oxides (NOx) control. In 2006, the Department issued a permit to further convert the kilns to indirect firing systems while keeping the multi-channel burners or installing newer ones. The Department also reduced the NOx limits from 1.83 to 1.21 pounds per ton of preheater feed (lb/ton) on Kiln 1 and from 1.72 to 1.21 lb/ton on Kiln 2 effective upon complete installation of the indirect firing system, but no later than June 30, 2007. The emission limits apply on a rolling 30-operating day basis.</p> <p>Cemex has not completed the indirect firing project and has requested relief on the NOx limit because of inherently greater uncontrolled emissions from the semi-direct firing systems. The Department will extend the permit through December 31, 2008 to complete the conversion to indirect firing systems and to submit a Title V Operation Permit Revision. The Department will defer applicability of the 1.21 lb NOx/ton limitation until October 31, 2008 but will set an interim limit of 1.5 lb/ton.</p> <p>The Department will issue the final air construction permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.</p> <p>The Department will accept written comments concerning the proposed permit issuance action for a period of 14 days from the date of publication of this Public Notice of Intent to Issue Air Construction Permit. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.</p> <p>The Department will issue the permit with the attached conditions unless a timely petition for an administrative determination (hearing) is filed pursuant to sections 120.569 and 120.57 of the Florida Statutes (F.S.), before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.</p> <p>A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within 14 days of receipt of this notice of intent. 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 within 14 days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), F.S., however, any person who asked the Department 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 discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code (F.A.C.).</p> <p>A petition that disputes the material facts on which the Department'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 how and when petitioner received notice of the agency 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 petitioner wishes the agency to take with respect to the agency's proposed action.</p> <p>A petition that does not dispute the material facts upon which the Department'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.</p> <p>Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.</p> <p>A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:</p> <table border="0"> <tr> <td>Department of Environmental Protection Bureau of Air Regulation 111 S. Magnolia Drive, Suite 4 Tallahassee, Florida, 32301 Telephone: 850/488-0114 Fax: 850/922-6979</td> <td>Department of Environmental Protection Southwest District Office 13051 N. Telecom Parkway Temple Terrace, Florida 33637-0926 Telephone: (813) 632-7600 Fax: (813) 632-7668</td> </tr> </table> <p>The complete project file includes the permit application, draft air construction permit, technical evaluation, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact Teresa Heron at MS 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, or <a href="mailto:Teresa.Heron@dep.state.fl.us">Teresa.Heron@dep.state.fl.us</a> or call 850/921-9529 for additional information. Key documents may also be viewed at: <a href="http://www.dep.state.fl.us/Air/permitting/construction.htm">www.dep.state.fl.us/Air/permitting/construction.htm</a> and clicking on CEMEX in the cement plant category.</p> <p>Publish October 30, 2007</p>			Department of Environmental Protection Bureau of Air Regulation 111 S. Magnolia Drive, Suite 4 Tallahassee, Florida, 32301 Telephone: 850/488-0114 Fax: 850/922-6979	Department of Environmental Protection Southwest District Office 13051 N. Telecom Parkway Temple Terrace, Florida 33637-0926 Telephone: (813) 632-7600 Fax: (813) 632-7668
Department of Environmental Protection Bureau of Air Regulation 111 S. Magnolia Drive, Suite 4 Tallahassee, Florida, 32301 Telephone: 850/488-0114 Fax: 850/922-6979	Department of Environmental Protection Southwest District Office 13051 N. Telecom Parkway Temple Terrace, Florida 33637-0926 Telephone: (813) 632-7600 Fax: (813) 632-7668			

# HERNANDO TODAY

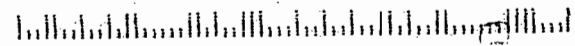
15299 Cortez Boulevard, Brooksville, FL 34613



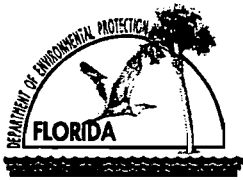
attw:  
Darlene  
Peterson

Cemex Inc.  
16301 Ponce de Leon Blvd.  
Brooksville FL 34614

3461430849 R063







# Department of Environmental Protection

RECEIVED

JUN 27 2007

## Division of Air Resource Management

BUREAU OF AIR REGULATION

### APPLICATION FOR AIR PERMIT - LONG FORM

#### I. APPLICATION INFORMATION

**Air Construction Permit** – Use this form to apply for any air construction permit at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air permit. Also use this form to apply for an air construction permit:

- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- Where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- Where the applicant proposes to establish, revise, or renew a plantwide applicability limit (PAL).

**Air Operation Permit** – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial/revised/renewal Title V air operation permit.

**Air Construction Permit & Title V Air Operation Permit (Concurrent Processing Option)** – Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

#### Identification of Facility

1. Facility Owner/Company Name: <b>CEMEX Cement, Inc.</b>	
2. Site Name: <b>Brooksville Cement Plant</b>	
3. Facility Identification Number: <b>0530010</b>	
4. Facility Location... Street Address or Other Locator: <b>1630 Ponce de Leon Blvd.</b> City: <b>Brooksville</b> County: <b>Hernando</b> Zip Code: <b>34601</b>	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

#### Application Contact

1. Application Contact Name: <b>Fawn W. Bergen, PE</b>	
2. Application Contact Mailing Address... Organization/Firm: <b>Koogler &amp; Associates, Inc. (Cert. Of Authorization No. 6570)</b> Street Address: <b>4014 NW 13<sup>th</sup> Street</b> City: <b>Gainesville</b> State: <b>Florida</b> Zip Code: <b>32609</b>	
3. Application Contact Telephone Numbers... Telephone: <b>(352) 377-5822</b> ext.29 Fax: <b>(352) 377-7158</b>	
4. Application Contact Email Address:	

#### Application Processing Information (DEP Use)

1. Date of Receipt of Application: <b>6-27-07</b>	3. PSD Number (if applicable):
2. Project Number(s): <b>0530010-034-AC</b>	4. Siting Number (if applicable):

## APPLICATION INFORMATION

### Purpose of Application

**This application for air permit is submitted to obtain: (Check one)**

#### **Air Construction Permit**

- Air construction permit.
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

#### **Air Operation Permit**

- Initial Title V air operation permit.
- Title V air operation permit revision.
- Title V air operation permit renewal.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

#### **Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)**

- Air construction permit and Title V permit revision, incorporating the proposed project.
- Air construction permit and Title V permit renewal, incorporating the proposed project.

**Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:**

- I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

### Application Comment

**Application is for a request to extend the expiration date of Permit No. 0530010-026-AC (Indirect Firing installation permit) and to revise the NO<sub>x</sub> emissions limit contained in the permit.**

**APPLICATION INFORMATION**

**Scope of Application**

<b>Emissions Unit ID Number</b>	<b>Description of Emissions Unit</b>	<b>Air Permit Type</b>	<b>Air Permit Proc. Fee</b>
003	No. 1 Cement Kiln	AC1B	003
014	No. 2 Cement Kiln	AC1B	014

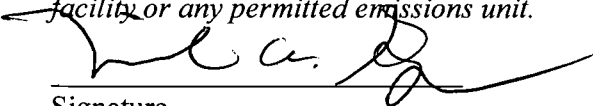
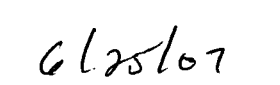
**Application Processing Fee**

Check one:  Attached - Amount: \$ \_\_\_\_\_  Not Applicable

APPLICATION INFORMATION

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name: <b>Michael A. Gonzales, Plant Manager</b>
2. Owner/Authorized Representative Mailing Address... Organization/Firm: <b>CEMEX Cement, Inc.</b> Street Address: <b>Post Office Box 6</b> City: <b>Brooksville</b> State: <b>Florida</b> Zip Code: <b>34605-0006</b>
3. Owner/Authorized Representative Telephone Numbers... Telephone: <b>(352) 799-2057</b> ext. Fax: <b>(352) 754-9836</b>
4. Owner/Authorized Representative Email Address: <b>Michaelanthony.gonzales@cemexusa.com</b>
5. Owner/Authorized Representative Statement:  <i>I, the undersigned, am the owner or authorized representative of the facility addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other requirements identified in this application to which the facility is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit.</i>   Signature   Date

**APPLICATION INFORMATION**

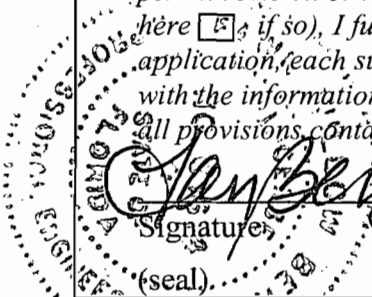
**Application Responsible Official Certification N/A**

**Complete if applying for an initial/revised/renewal Title V permit or concurrent processing of an air construction permit and a revised/renewal Title V permit. If there are multiple responsible officials, the “application responsible official” need not be the “primary responsible official.”**

1. Application Responsible Official Name:
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.
3. Application Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
4. Application Responsible Official Telephone Numbers... Telephone: ( ) - ext. Fax: ( ) -
5. Application Responsible Official Email Address:
6. Application Responsible Official Certification: <i>I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.</i>  _____ Signature Date

**APPLICATION INFORMATION**

**Professional Engineer Certification**

1. Professional Engineer Name: <b>Fawn W. Bergen</b> Registration Number: <b>61614</b>
2. Professional Engineer Mailing Address... Organization/Firm: <b>Koogler &amp; Associates, Inc. (Cert. Of Authorization No. 6570)</b> Street Address: <b>4014 NW 13<sup>th</sup> Street</b> City: <b>Gainesville</b> State: <b>Florida</b> Zip Code: <b>32609</b>
3. Professional Engineer Telephone Numbers... Telephone: <b>(352) 377-5822</b> ext.29 Fax: <b>(352) 377-7158</b>
4. Professional Engineer Email Address: <b>FBergen@kooglerassociates.com</b>
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i> <i>(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.</i> <i>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input type="checkbox"/>; if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.</i> <i>(4) If the purpose of this application is to obtain an air construction permit (check here <input checked="" type="checkbox"/>, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.</i> <i>(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i>  Signature: <u><i>Fawn W. Bergen</i></u> Date: <u>6/26/07</u>

\* Attach any exception to certification statement.

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates... Zone 17      East (km) <b>356.9</b> North (km) <b>3169.0</b>		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) <b>28/38/34</b> Longitude (DD/MM/SS) <b>82/28/25</b>	
3. Governmental Facility Code: <b>0</b>	4. Facility Status Code: <b>A</b>	5. Facility Major Group SIC Code: <b>32</b>	6. Facility SIC(s): <b>3241</b>
7. Facility Comment :			

#### Facility Contact

1. Facility Contact Name: <b>Charles E. Walz, Environmental Manager</b>
2. Facility Contact Mailing Address... Organization/Firm: <b>CEMEX Cement, Inc.</b> Street Address: <b>Post Office Box 6</b> City: <b>Brooksville</b> State: <b>Florida</b> Zip Code: <b>34605-0006</b>
3. Facility Contact Telephone Numbers: Telephone: <b>(352) 796-7241</b> ext.      Fax: <b>(352) 754-9836</b>
4. Facility Contact Email Address: <b>cwalz@cemexusa.com</b>

#### Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: City:      State:      Zip Code:
3. Facility Primary Responsible Official Telephone Numbers... Telephone: ( ) -      ext.      Fax: ( ) -
4. Facility Primary Responsible Official Email Address:

## FACILITY INFORMATION

### Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”

1. <input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source	
3. <input checked="" type="checkbox"/> Title V Source	
4. <input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. <input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7. <input type="checkbox"/> Synthetic Minor Source of HAPs	
8. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. <input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. <input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	



# FACILITY INFORMATION

## List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
PM	A	N
PM <sub>10</sub>	A	N
NO <sub>x</sub>	A	N
SO <sub>2</sub>	A	N
CO	A	N
VOC	A	N
HCl	A	N
HAPs - Total	A	N

**FACILITY INFORMATION**

**B. EMISSIONS CAPS**

**Facility-Wide or Multi-Unit Emissions Caps**

1. Pollutant Subject to Emissions Cap	2. Facility Wide Cap [Y or N]? (all units)	3. Emissions Unit ID No.s Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

**FACILITY INFORMATION**

**C. FACILITY ADDITIONAL INFORMATION**

**Additional Requirements for All Applications, Except as Otherwise Stated**

1. Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>10/05</u>
2. Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>10/05</u>
3. Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>10/05</u>

**Additional Requirements for Air Construction Permit Applications**

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (existing permitted facility)
2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): <input checked="" type="checkbox"/> Attached, Document ID: <u>A</u>
3. Rule Applicability Analysis: <input checked="" type="checkbox"/> Attached, Document ID: <u>A</u>
4. List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**FACILITY INFORMATION**

**Additional Requirements for FESOP Applications**

1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.):  
 Attached, Document ID: \_\_\_\_\_  Not Applicable (no exempt units at facility)

**Additional Requirements for Title V Air Operation Permit Applications N/A**

1. List of Insignificant Activities (Required for initial/renewal applications only):  
 Attached, Document ID: \_\_\_\_\_  Not Applicable (revision application)

2. Identification of Applicable Requirements (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought):  
 Attached, Document ID: \_\_\_\_\_  
 Not Applicable (revision application with no change in applicable requirements)

3. Compliance Report and Plan (Required for all initial/revision/renewal applications):  
 Attached, Document ID: \_\_\_\_\_  
Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.

4. List of Equipment/Activities Regulated under Title VI (If applicable, required for initial/renewal applications only):  
 Attached, Document ID: \_\_\_\_\_  
 Equipment/Activities On site but Not Required to be Individually Listed  
 Not Applicable

5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only) :  
 Attached, Document ID: \_\_\_\_\_  Not Applicable

6. Requested Changes to Current Title V Air Operation Permit:  
 Attached, Document ID: \_\_\_\_\_  Not Applicable

**Additional Requirements Comment**

## EMISSIONS UNIT INFORMATION

Section [1] of [2]

Cement Kiln No. 1

### III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application** - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application** - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application** - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

Cement Kiln No. 1

**A. GENERAL EMISSIONS UNIT INFORMATION**

**Title V Air Operation Permit Emissions Unit Classification**

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section: **Cement Kiln No. 1**

3. Emissions Unit Identification Number: **003**

4. Emissions Unit Status Code:  
**A**

5. Commence Construction Date:  
**N/A**

6. Initial Startup Date:  
**N/A**

7. Emissions Unit Major Group SIC Code:  
**32**

8. Acid Rain Unit?  
 Yes  
 No

9. Package Unit:  
Manufacturer:

Model Number:

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

Cement Kiln No. 1

**E. EMISSIONS UNIT POLLUTANTS**

**List of Pollutants Emitted by Emissions Unit**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
<b>NO<sub>x</sub></b>	<b>032/205</b>		<b>EL</b>

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]  
Cement Kiln No. 1

**POLLUTANT DETAIL INFORMATION**

Page [1] of [1]  
Nitrogen Oxides

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: <b>NOx</b>		2. Total Percent Efficiency of Control:	
3. Potential Emissions: <b>179.6 lb/hour                      786.5 tons/year</b>		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: <b>179.6 lb/hr</b>  Reference: <b>proposed emissions limit (12-month rolling average)</b>		7. Emissions Method Code: <b>0</b>	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From:                      To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: <b>179.6 lb/hr x 8,760 hr/yr x 1 ton/2,000 lb = 786.5 TPY</b>			
11. Potential, Fugitive, and Actual Emissions Comment:			



**EMISSIONS UNIT INFORMATION**

Section [1] of [2]  
Cement Kiln No. 1

**POLLUTANT DETAIL INFORMATION**

Page [1] of [1]  
Nitrogen Oxides

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: <b>ESCPD</b>	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: <b>179.6 lb/hr (12-month rolling average)</b>	4. Equivalent Allowable Emissions: <b>179.6 lb/hour* 786.5 tons/year*</b>
5. Method of Compliance: <b>NOx CEMS</b>	
6. Allowable Emissions Comment (Description of Operating Method): <b>*Hourly and annual emissions limits are on a 12-month rolling average. Limits are based on avoiding PSD (based on 2005 PSD application).</b>	

**Allowable Emissions** Allowable Emissions    of   

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions    of   

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

Cement Kiln No. 1

**I. EMISSIONS UNIT ADDITIONAL INFORMATION**

**Additional Requirements for All Applications, Except as Otherwise Stated**

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u> <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable <p>Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.</p>
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

Cement Kiln No. 1

**Additional Requirements for Air Construction Permit Applications**

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**Additional Requirements for Title V Air Operation Permit Applications N/A**

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

Additional Requirements Comment

[Empty rectangular box for additional requirements comment]

## EMISSIONS UNIT INFORMATION

Section [2] of [2]

Cement Kiln No. 2

### III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application** - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application** - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application** - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

**Cement Kiln No. 2**

**A. GENERAL EMISSIONS UNIT INFORMATION**

**Title V Air Operation Permit Emissions Unit Classification**

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section: **Cement Kiln No. 2**

3. Emissions Unit Identification Number: **014**

4. Emissions Unit Status Code:  
**A**

5. Commence Construction Date:  
**N/A**

6. Initial Startup Date:  
**N/A**

7. Emissions Unit Major Group SIC Code:  
**32**

8. Acid Rain Unit?  
 Yes  
 No

9. Package Unit:  
Manufacturer:

Model Number:

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

Cement Kiln No. 2

**E. EMISSIONS UNIT POLLUTANTS**

**List of Pollutants Emitted by Emissions Unit**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NO <sub>x</sub>	032/205		EL

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

Cement Kiln No. 2

**POLLUTANT DETAIL INFORMATION**

Page [1] of [1]

Nitrogen Oxides

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

**(Optional for unregulated emissions units.)**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

**Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

1. Pollutant Emitted: <b>NO<sub>x</sub></b>		2. Total Percent Efficiency of Control:	
3. Potential Emissions: <b>179.6 lb/hour                      786.5 tons/year</b>		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: <b>179.6 lb/hr</b>  Reference: <b>proposed emissions limit (12-month rolling average)</b>		7. Emissions Method Code: <b>0</b>	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From:                      To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: <b>179.6 lb/hr x 8,760 hr/yr x 1 ton/2,000 lb = 786.5 TPY</b>			
11. Potential, Fugitive, and Actual Emissions Comment:			



**EMISSIONS UNIT INFORMATION**

Section [2] of [2]  
Cement Kiln No. 2

**POLLUTANT DETAIL INFORMATION**

Page [1] of [1]  
Nitrogen Oxides

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
ALLOWABLE EMISSIONS**

**Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.**

**Allowable Emissions** Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: <b>ESCPD</b>	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: <b>179.6 lb/hr (12-month rolling average)</b>	4. Equivalent Allowable Emissions: <b>179.6 lb/hour* 786.5 tons/year*</b>
5. Method of Compliance: <b>NOx CEMS</b>	
6. Allowable Emissions Comment (Description of Operating Method): <b>*Hourly and annual emissions limits are on a 12-month rolling average. Limits are based on avoiding PSD (based on 2005 PSD application).</b>	

**Allowable Emissions** Allowable Emissions    of   

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions    of   

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

Cement Kiln No. 2

**I. EMISSIONS UNIT ADDITIONAL INFORMATION**

**Additional Requirements for All Applications, Except as Otherwise Stated**

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u> <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable <p>Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.</p>
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

Cement Kiln No. 2

**Additional Requirements for Air Construction Permit Applications**

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**Additional Requirements for Title V Air Operation Permit Applications N/A**

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

**Additional Requirements Comment**

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**ATTACHMENT A**  
**DESCRIPTION OF PROPOSED PROJECT**

**ATTACHMENT A**  
**DESCRIPTION OF PROPOSED PROJECT**

CEMEX Cement, Inc. (CEMEX), operates a Portland cement manufacturing plant in Brooksville, Florida. The Cement Kilns Nos. 1 (EU 003) and 2 (EU 014) were recently permitted (Permit No. 0530010-026-AC) to install an indirect firing system, low-NO<sub>x</sub> burners, and SNCR. That construction permit limits NO<sub>x</sub> emissions (condition 5) to 1.21 pounds per ton (lb/ton) of dry preheater feed and 181.5 lb/hr (NO<sub>2</sub>) on a 30-day rolling average. CEMEX is required to achieve this emission rate by June 30, 2007, which is the expiration date of the permit. CEMEX is now requesting the following:

- A 2-year extension of Permit No. 0530010-026-AC; and
- A revision of the NO<sub>x</sub> emission limit to be 179.6 lb/hr and 786.5 TPY (both on a 12-month rolling average).

The basis for this request is discussed further below.

CEMEX is requesting a 2-year extension of the construction permit to allow additional time to complete the installation of the Indirect Firing System to achieve reduced NO<sub>x</sub> emissions on a continuous basis. CEMEX is still moving forward with this project and has been able to achieve reduced NO<sub>x</sub> emissions. As shown in the attached Figure 1 (see also data including the minimum, maximum, and average for each kiln in Table 1), CEMEX has recently been able to achieve the lower NO<sub>x</sub> limit of 1.21 lb/ton preheater feed. However, without the installation of the indirect firing system, CEMEX cannot guarantee continuous compliance with the reduced NO<sub>x</sub> limit.

In addition, CEMEX is requesting a revision to the NO<sub>x</sub> limit contained in the referenced construction permit to remove the lb/ton limit. Since the NO<sub>x</sub> emission limits for both Kiln No. 1 and Kiln No. 2 were established to avoid PSD, and not as BACT, CEMEX is requesting NO<sub>x</sub> emission limits stated in terms of pounds per hour (lb/hr) and tons per year (TPY) only. The NO<sub>x</sub> limit of 1.21 lb/ton preheater feed can be included as an equivalent emission limit but not as an enforceable limit.

The rationale for this request is that the annual NO<sub>x</sub> emission limit from each kiln was established at 786.5 TPY to avoid a PSD review; including the avoidance of a BACT determination. This being the case, the only assurance the Department needs is that the annual NO<sub>x</sub> emissions from each kiln will not exceed 786.5 TPY.

To achieve this assurance, it is suggested that the permit contain an hourly NO<sub>x</sub> emissions limit of 179.6 lb/hr (786.5 TPY divided by 8,760 hours per year) and annual emission limit of 786.5 TPY, both 12-month rolling averages. These limits can be verified with the certified NO<sub>x</sub> CEMS.

A precedent was set by the Department setting an annual average NO<sub>x</sub> emission rate for the Titan America Pensuco plant in Dade County. Excerpts from the Technical Evaluation and Preliminary Determination (TEPD) for Titan America Permit 0250020-016-AC and from that permit (dated April 5, 2005) are included as Attachment B. In the excerpt from the TEPD, the pollutant netting analysis is presented documenting PSD avoidance and the excerpt from the permit shows permit limits for NO<sub>x</sub>, SO<sub>2</sub>, CO, VOC, and acid mist all with 12-month rolling average limits. CEMEX is also requesting a 12-month rolling average.

In summary, the 30-day rolling average NO<sub>x</sub> emission limits for Kiln No. 1 and Kiln No. 2 of 1.21 lb/ton of preheater feed and 181.5 lb/hr should be changed to 179.6 lb/hr and 786.5 TPY, 12-month rolling averages. Compliance with these limits will be demonstrated with the NO<sub>x</sub> CEMS on each kiln. It should be noted that in calculating these averages, all hours in the year will be used; both hours when a kiln is operating and hours when a kiln is not operating (i.e., zero NO<sub>x</sub> emissions). This is because the 179.6 lb/hr limit is based on 8,760 hr/yr of operations ( $179.5 \text{ lb/hr} \times 8,760 \text{ hr/yr} \times 1 / 2,000 \text{ lb/ton} = 786.5 \text{ TPY}$ ). It is also noted that Al Linero stated that the NO<sub>x</sub> limit contained in the referenced construction permit is the lowest NO<sub>x</sub> limit of any preheater kiln in the country using SNCR.

Figure 1. Summary of NOx CEMS Data for Kiln 1 and Kiln 2

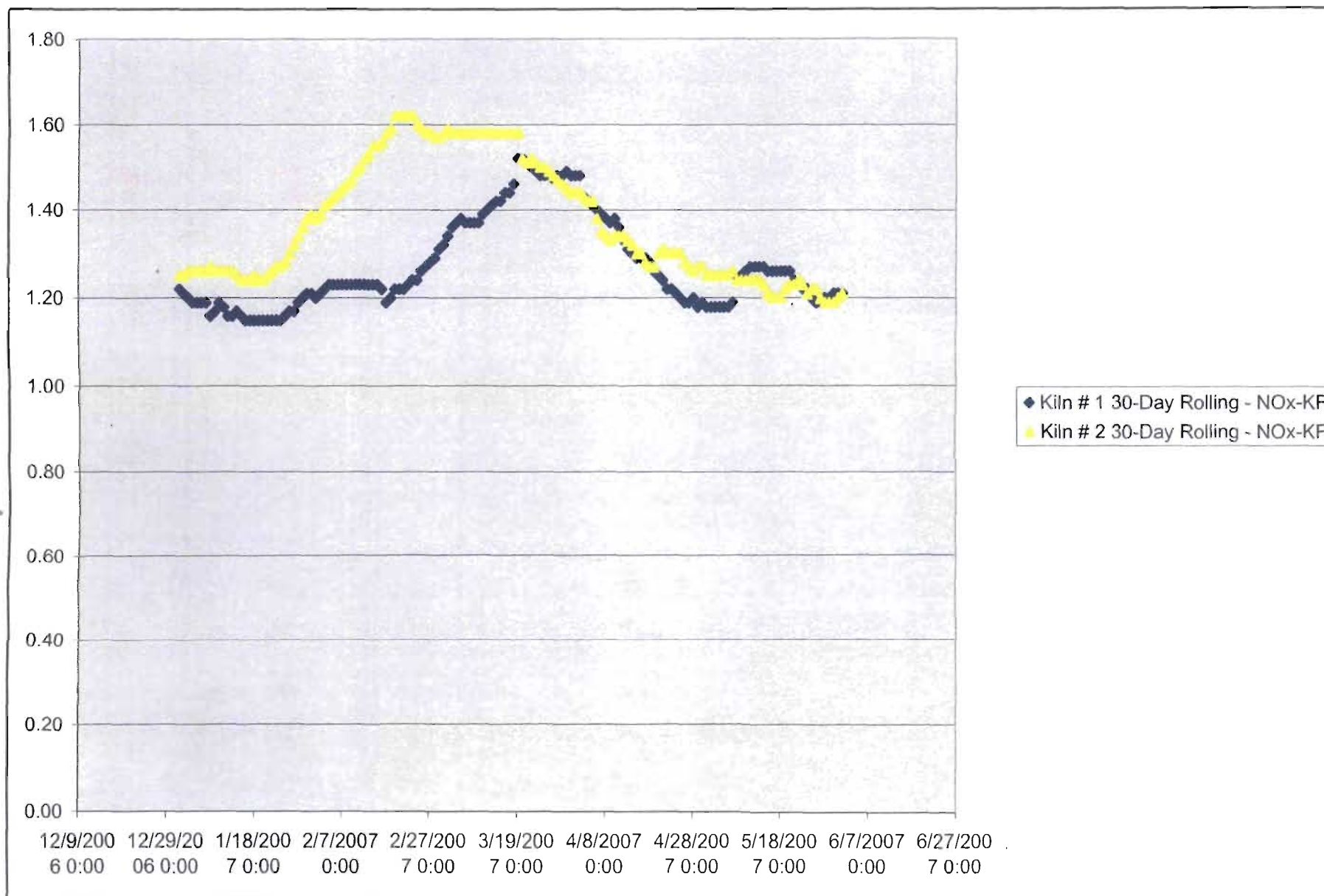




Table 1. Summary of 30-Day Rolling Average NOx CEMS Data- Kilns 1 and 2  
CEMEX Brooksville

Date/Time	Kiln # 1 30-Day Rolling - NOx-KF	Kiln # 2 30-Day Rolling - NOx-KF
1/1/2007 0:00	1.22	1.25
1/2/2007 0:00	1.21	1.25
1/3/2007 0:00	1.20	1.26
1/4/2007 0:00	1.19	1.26
1/5/2007 0:00	1.19	1.26
1/6/2007 0:00	1.19	1.26
1/7/2007 0:00	1.19	1.26
1/8/2007 0:00	1.16	1.27
1/9/2007 0:00	1.17	1.26
1/10/2007 0:00	1.19	1.26
1/11/2007 0:00	1.18	1.26
1/12/2007 0:00	1.16	1.26
1/13/2007 0:00	1.16	1.26
1/14/2007 0:00	1.17	1.25
1/15/2007 0:00	1.16	1.24
1/16/2007 0:00	1.15	1.24
1/17/2007 0:00	1.15	1.24
1/18/2007 0:00	1.15	1.25
1/19/2007 0:00	1.15	1.24
1/20/2007 0:00	1.15	1.24
1/21/2007 0:00	1.15	1.25
1/22/2007 0:00	1.15	1.26
1/23/2007 0:00	1.15	1.27
1/24/2007 0:00	1.15	1.27
1/25/2007 0:00	1.16	1.28
1/26/2007 0:00	1.17	1.30
1/27/2007 0:00	1.17	1.32
1/28/2007 0:00	1.19	1.34
1/29/2007 0:00	1.20	1.36
1/30/2007 0:00	1.21	1.38
1/31/2007 0:00	1.21	1.39
2/1/2007 0:00	1.20	1.38
2/2/2007 0:00	1.21	1.39
2/3/2007 0:00	1.22	1.41
2/4/2007 0:00	1.23	1.42
2/5/2007 0:00	1.23	1.43
2/6/2007 0:00	1.23	1.44
2/7/2007 0:00	1.23	1.45
2/8/2007 0:00	1.23	1.46
2/9/2007 0:00	1.23	1.47
2/10/2007 0:00	1.23	1.49
2/11/2007 0:00	1.23	1.50
2/12/2007 0:00	1.23	1.52
2/13/2007 0:00	1.23	1.53
2/14/2007 0:00	1.23	1.55
2/15/2007 0:00	1.23	1.55
2/16/2007 0:00	1.22	1.56

Table 1. Summary of 30-Day Rolling Average NOx CEMS Data- Kilns 1 and 2  
CEMEX Brooksville

Date/Time	Kiln # 1 30-Day Rolling - NOx-KF	Kiln # 2 30-Day Rolling - NOx-KF
2/17/2007 0:00	1.19	1.58
2/18/2007 0:00	1.20	1.59
2/19/2007 0:00	1.22	1.62
2/20/2007 0:00	1.22	1.62
2/21/2007 0:00	1.22	1.62
2/22/2007 0:00	1.23	1.62
2/23/2007 0:00	1.24	1.62
2/24/2007 0:00	1.24	1.60
2/25/2007 0:00	1.26	1.59
2/26/2007 0:00	1.27	1.58
2/27/2007 0:00	1.28	1.58
2/28/2007 0:00	1.29	1.57
3/1/2007 0:00	1.31	1.57
3/2/2007 0:00	1.32	1.58
3/3/2007 0:00	1.34	1.59
3/4/2007 0:00	1.36	1.58
3/5/2007 0:00	1.37	1.58
3/6/2007 0:00	1.38	1.58
3/7/2007 0:00	1.37	1.58
3/8/2007 0:00	1.37	1.58
3/9/2007 0:00	1.37	1.58
3/10/2007 0:00	1.37	1.58
3/11/2007 0:00	1.39	1.58
3/12/2007 0:00	1.40	1.58
3/13/2007 0:00	1.41	1.58
3/14/2007 0:00	1.42	1.58
3/15/2007 0:00	1.42	1.58
3/16/2007 0:00	1.44	1.58
3/17/2007 0:00	1.44	1.58
3/18/2007 0:00	1.46	1.58
3/19/2007 0:00	1.52	1.58
3/20/2007 0:00	1.52	1.52
3/21/2007 0:00	1.51	1.51
3/22/2007 0:00	1.50	1.52
3/23/2007 0:00	1.49	1.51
3/24/2007 0:00	1.48	1.50
3/25/2007 0:00	1.48	1.50
3/26/2007 0:00	1.48	1.49
3/27/2007 0:00	1.47	1.48
3/28/2007 0:00	1.48	1.47
3/29/2007 0:00	1.48	1.46
3/30/2007 0:00	1.49	1.45
3/31/2007 0:00	1.48	1.44
4/1/2007 0:00	1.48	1.44
4/2/2007 0:00	1.48	1.44
4/3/2007 0:00	1.43	1.43
4/4/2007 0:00	1.42	1.42

Table 1. Summary of 30-Day Rolling Average NOx CEMS Data- Kilns 1 and 2  
CEMEX Brooksville

Date/Time	Kiln # 1 30-Day Rolling - NOx-KF	Kiln # 2 30-Day Rolling - NOx-KF
4/5/2007 0:00	1.41	1.42
4/6/2007 0:00	1.40	1.38
4/7/2007 0:00	1.39	1.35
4/8/2007 0:00	1.38	1.34
4/9/2007 0:00	1.37	1.33
4/10/2007 0:00	1.38	1.34
4/11/2007 0:00	1.36	1.34
4/12/2007 0:00	1.33	1.34
4/13/2007 0:00	1.31	1.33
4/14/2007 0:00	1.30	1.32
4/15/2007 0:00	1.29	1.30
4/16/2007 0:00	1.29	1.30
4/17/2007 0:00	1.29	1.28
4/18/2007 0:00	1.28	1.27
4/19/2007 0:00	1.26	1.27
4/20/2007 0:00	1.25	1.30
4/21/2007 0:00	1.24	1.31
4/22/2007 0:00	1.22	1.30
4/23/2007 0:00	1.22	1.30
4/24/2007 0:00	1.21	1.30
4/25/2007 0:00	1.20	1.30
4/26/2007 0:00	1.19	1.28
4/27/2007 0:00	1.19	1.27
4/28/2007 0:00	1.20	1.26
4/29/2007 0:00	1.18	1.27
4/30/2007 0:00	1.19	1.27
5/1/2007 0:00	1.18	1.25
5/2/2007 0:00	1.18	1.25
5/3/2007 0:00	1.18	1.25
5/4/2007 0:00	1.18	1.25
5/5/2007 0:00	1.18	1.25
5/6/2007 0:00	1.18	1.25
5/7/2007 0:00	1.19	1.26
5/8/2007 0:00	1.24	1.24
5/9/2007 0:00	1.25	1.24
5/10/2007 0:00	1.26	1.24
5/11/2007 0:00	1.27	1.24
5/12/2007 0:00	1.27	1.24
5/13/2007 0:00	1.27	1.24
5/14/2007 0:00	1.27	1.23
5/15/2007 0:00	1.26	1.21
5/16/2007 0:00	1.26	1.20
5/17/2007 0:00	1.26	1.20
5/18/2007 0:00	1.26	1.20
5/19/2007 0:00	1.26	1.22
5/20/2007 0:00	1.26	1.23
5/21/2007 0:00	1.24	1.23

Table 1. Summary of 30-Day Rolling Average NOx CEMS Data- Kilns 1 and 2  
CEMEX Brooksville

Date/Time	Kiln # 1 30-Day Rolling - NOx-KF	Kiln # 2 30-Day Rolling - NOx-KF
5/22/2007 0:00	1.23	1.24
5/23/2007 0:00	1.22	1.23
5/24/2007 0:00	1.22	1.21
5/25/2007 0:00	1.20	1.22
5/26/2007 0:00	1.19	1.22
5/27/2007 0:00	1.19	1.20
5/28/2007 0:00	1.20	1.19
5/29/2007 0:00	1.20	1.19
5/30/2007 0:00	1.21	1.19
5/31/2007 0:00	1.21	1.20
6/1/2007 0:00	1.21	1.21
<b>Maximum =</b>	<b>1.52</b>	<b>1.62</b>
<b>Minimum =</b>	<b>1.15</b>	<b>1.19</b>
<b>Average =</b>	<b>1.27</b>	<b>1.38</b>

**ATTACHMENT B**

**EXCERPTS FROM TITAN AMERICA  
PERMIT NO. 0250020-016-AC**

From the Technical Evaluation and Preliminary Determination for Titan America Permit 0250020-016-AC, dated April 5, 2005:

### VII. PROJECT EMISSION INCREASES AND DECREASES

Titan updated the previous contemporaneous emissions calculations that had been submitted in 1998 in support of the modernization project. Following is a recap of the actual emission decreases and the potential emission increases in tons per year (TPY). As previously mentioned, the most recent request by Tarmac affects only PM/PM<sub>10</sub>.

Pollutant	Increases Dry Process at Proposed Capacity	Decreases Wet Process Actual Emissions	Net Increases (Decreases)	PSD Significant Emission Rate
PM	368	366	2	25
PM <sub>10</sub>	321	315	6	15
SO <sub>2</sub>	806	1,432	(626)	40
NO <sub>x</sub>	1,953	2,284	(331)	40
CO	1,457	1,368	89	100
VOC	155	131	25	40
H <sub>2</sub> SO <sub>4</sub>	8.9	257	(248)	7
Hg	0.0149	0.0236	(0.0087)	0.1
Pb	0.0465	0.0393	0.0071	0.6

Actual emissions are likely to be much lower for PM/PM<sub>10</sub>, CO, and SO<sub>2</sub> based on the emission test results discussed in the previous section. NO<sub>x</sub> emissions are likely to be significantly less than estimated above. Hg emissions are likely to be somewhat greater than estimated above. However they will not exceed the significant emission rate of 200 lb/year.

From Titan Permit 0250020-016-AC:

B.23 SO<sub>2</sub>, NO<sub>x</sub>, CO, VOC, and SAM Emission Limits: The emissions from the Raw Mill/Pyroprocessing system shall not exceed the limits shown in the following table:

Pollutant	Allowable Emissions		Emissions Limits in lbs./ton of clinker		Monitors
	12-month rolling average in TPY <sup>(a)</sup>	Lbs./hr 24-hr average	24-hr avg. @108 TPH of clinker production <sup>(b)</sup>	24-hr average @250 TPH of clinker production	
SO <sub>2</sub>	806	520	1.54	1.38	CEM
NO <sub>x</sub>	1953	720	3.46	2.88	CEM
CO <sup>(b)</sup>	1457	576	2.75	2.30	Process
VOC	155	40	0.18	0.16	CEM
SAM	8.68	2.24	0.009	0.009	

**Notes:**

- <sup>(a)</sup> The 12-month rolling average in TPY would be the average of the daily values for the current month and the preceding 11 months. The averages shall be based on the operating days or hours, and shall exclude days or hours in which the plant is not operating.
- <sup>(b)</sup> The averaging time for CO corresponds to the required length of sampling for the initial and subsequent emission tests.

[Rules 62-4.070(3) and 62-212.400, F.A.C.; Permit 0250020-016-AC]



4014 NW 13th STREET  
GAINESVILLE, FL 32609-1923  
352/377-5822 • FAX/377-7158

KA 521-06-20  
June 26, 2007

*Forward to Al 6-28*

Copy

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JUN 27 2007

BUREAU OF AIR REGULATION

Ms. Trina Vielhauer  
Florida Department of Environmental Protection  
Bureau of Air Regulation  
2600 Blair Stone Road MS 5500  
Tallahassee, Florida 32399-2400

**RE: CEMEX Cement, Inc.; Brooksville Cement Plant  
AC Permit Application to Extend Permit No. 0530010-026-AC and Revise NO<sub>x</sub> Limit;  
Indirect Firing System**

Dear Trina:

CEMEX Cement, Inc. (CEMEX) is submitting the enclosed Air Construction Permit Application to revise the NO<sub>x</sub> emissions limit and to request a 2-year extension of Air Construction Permit No. 0530010-026-AC (Installation of Indirect Firing System and SNCR). CEMEX is still moving forward with this project and have been able to achieve reduced NO<sub>x</sub> emissions. However, additional time is needed to complete the installation of the Indirect Firing System to achieve reduced NO<sub>x</sub> emissions on a continuous basis.

In addition, CEMEX is requesting a revision to the NO<sub>x</sub> limit contained in the referenced construction permit to remove the pounds per ton (lb/ton) limit. Since the NO<sub>x</sub> emission limits for both Kiln No. 1 and Kiln No. 2 were established to avoid PSD, and not as BACT, CEMEX is requesting NO<sub>x</sub> emission limits stated in terms of pounds per hour (lb/hr) and tons per year (TPY) only. The NO<sub>x</sub> limit of 1.21 lb/ton preheater feed can be included as an equivalent emission limit but not as an enforceable limit.

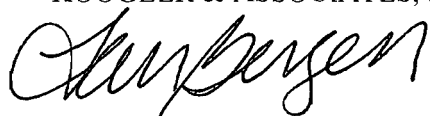
The rationale for this request is that the annual NO<sub>x</sub> emission limit from each kiln was established at 786.5 TPY to avoid a PSD review; including the avoidance of a BACT determination. This being the case, the only assurance the Department needs is that the annual NO<sub>x</sub> emissions from each kiln will not exceed 786.5 TPY.

To achieve this assurance, it is suggested that the permit contain an hourly NO<sub>x</sub> emissions limit of 179.6 lb/hr (786.5 TPY divided by 8,760 hours per year) and annual emission limit of 786.5 TPY, both 12-month rolling averages. These limits can be verified with the certified NO<sub>x</sub> CEMS.

Please feel free to contact me at (352) 377-5822 or [FBergen@kooglerassociates.com](mailto:FBergen@kooglerassociates.com), or Mr. Charles Walz, CEMEX, at (352) 799-2011, if you have any questions regarding this submittal.

Very truly yours,

KOOGLER & ASSOCIATES, INC.



Fawn W. Bergen, P.E.  
Project Engineer

FB

cc: J. Gill, CEMEX  
A. Linero, FDEP  
C. Walz, CEMEX





# Department of Environmental Protection

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Division of Air Resource Management

JUN 27 2007

## APPLICATION FOR AIR PERMIT - LONG FORM

BUREAU OF AIR REGULATION

### I. APPLICATION INFORMATION

**Air Construction Permit** – Use this form to apply for any air construction permit at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air permit. Also use this form to apply for an air construction permit:

- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- Where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- Where the applicant proposes to establish, revise, or renew a plantwide applicability limit (PAL).

**Air Operation Permit** – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial/revise/renewal Title V air operation permit.

**Air Construction Permit & Title V Air Operation Permit (Concurrent Processing Option)** – Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

#### Identification of Facility

1. Facility Owner/Company Name: <b>CEMEX Cement, Inc.</b>	
2. Site Name: <b>Brooksville Cement Plant</b>	
3. Facility Identification Number: <b>0530010</b>	
4. Facility Location... Street Address or Other Locator: <b>1630 Ponce de Leon Blvd.</b> City: <b>Brooksville</b> County: <b>Hernando</b> Zip Code: <b>34601</b>	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

#### Application Contact

1. Application Contact Name: <b>Fawn W. Bergen, PE</b>	
2. Application Contact Mailing Address... Organization/Firm: <b>Koogler &amp; Associates, Inc. (Cert. Of Authorization No. 6570)</b> Street Address: <b>4014 NW 13<sup>th</sup> Street</b> City: <b>Gainesville</b> State: <b>Florida</b> Zip Code: <b>32609</b>	
3. Application Contact Telephone Numbers... Telephone: <b>(352) 377-5822</b> ext.29 Fax: <b>(352) 377-7158</b>	
4. Application Contact Email Address:	

#### Application Processing Information (DEP Use)

1. Date of Receipt of Application: <b>6-27-07</b>	3. PSD Number (if applicable):
2. Project Number(s): <b>0530010-034-AR</b>	4. Siting Number (if applicable):

## APPLICATION INFORMATION

### Purpose of Application

This application for air permit is submitted to obtain: (Check one)

#### **Air Construction Permit**

- Air construction permit.
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

#### **Air Operation Permit**

- Initial Title V air operation permit.
- Title V air operation permit revision.
- Title V air operation permit renewal.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

#### **Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)**

- Air construction permit and Title V permit revision, incorporating the proposed project.
- Air construction permit and Title V permit renewal, incorporating the proposed project.

**Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:**

- I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

### Application Comment

Application is for a request to extend the expiration date of Permit No. 0530010-026-AC (Indirect Firing installation permit) and to revise the NO<sub>x</sub> emissions limit contained in the permit.

**APPLICATION INFORMATION**

**Scope of Application**

<b>Emissions Unit ID Number</b>	<b>Description of Emissions Unit</b>	<b>Air Permit Type</b>	<b>Air Permit Proc. Fee</b>
003	No. 1 Cement Kiln	AC1B	003
014	No. 2 Cement Kiln	AC1B	014

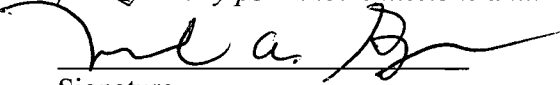
**Application Processing Fee**

Check one:  Attached - Amount: \$ \_\_\_\_\_  Not Applicable

**APPLICATION INFORMATION**

**Owner/Authorized Representative Statement**

**Complete if applying for an air construction permit or an initial FESOP.**

1. Owner/Authorized Representative Name: <b>Michael A. Gonzales, Plant Manager</b>
2. Owner/Authorized Representative Mailing Address... Organization/Firm: <b>CEMEX Cement, Inc.</b> Street Address: <b>Post Office Box 6</b> City: <b>Brooksville</b> State: <b>Florida</b> Zip Code: <b>34605-0006</b>
3. Owner/Authorized Representative Telephone Numbers... Telephone: <b>(352) 799-2057</b> ext. Fax: <b>(352) 754-9836</b>
4. Owner/Authorized Representative Email Address: <b>Michaelanthony.gonzales@cemexusa.com</b>
5. Owner/Authorized Representative Statement:  <i>I, the undersigned, am the owner or authorized representative of the facility addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other requirements identified in this application to which the facility is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit.</i>   Signature  <u>6/25/07</u> Date

## APPLICATION INFORMATION

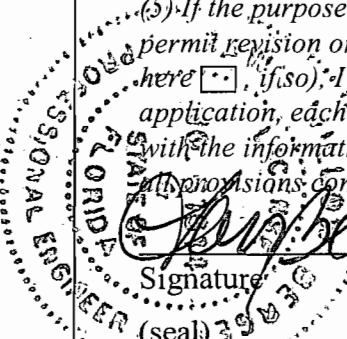
### Application Responsible Official Certification N/A

Complete if applying for an initial/revised/renewal Title V permit or concurrent processing of an air construction permit and a revised/renewal Title V permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1. Application Responsible Official Name:
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.
3. Application Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
4. Application Responsible Official Telephone Numbers... Telephone: ( ) - ext. Fax: ( ) -
5. Application Responsible Official Email Address:
6. Application Responsible Official Certification: <i>I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.</i>  _____ Signature  _____ Date

**APPLICATION INFORMATION**

**Professional Engineer Certification**

1. Professional Engineer Name: <b>Fawn W. Bergen</b> Registration Number: <b>61614</b>
2. Professional Engineer Mailing Address... Organization/Firm: <b>Koogler &amp; Associates, Inc. (Cert. Of Authorization No. 6570)</b> Street Address: <b>4014 NW 13<sup>th</sup> Street</b> City: <b>Gainesville</b> State: <b>Florida</b> Zip Code: <b>32609</b>
3. Professional Engineer Telephone Numbers... Telephone: <b>(352) 377-5822</b> ext.29 Fax: <b>(352) 377-7158</b>
4. Professional Engineer Email Address: <b>FBergen@kooglerassociates.com</b>
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i> <i>(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.</i> <i>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input type="checkbox"/>, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.</i> <i>(4) If the purpose of this application is to obtain an air construction permit (check here <input checked="" type="checkbox"/>, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.</i> <i>(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i>   Signature: <u><i>Fawn W. Bergen</i></u> Date: <u>6/26/07</u>

\* Attach any exception to certification statement.

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates... Zone <b>17</b> East (km) <b>356.9</b> North (km) <b>3169.0</b>		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) <b>28/38/34</b> Longitude (DD/MM/SS) <b>82/28/25</b>	
3. Governmental Facility Code: <b>0</b>	4. Facility Status Code: <b>A</b>	5. Facility Major Group SIC Code: <b>32</b>	6. Facility SIC(s): <b>3241</b>
7. Facility Comment :			

#### Facility Contact

1. Facility Contact Name: <b>Charles E. Walz, Environmental Manager</b>
2. Facility Contact Mailing Address... Organization/Firm: <b>CEMEX Cement, Inc.</b> Street Address: <b>Post Office Box 6</b> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>City: <b>Brooksville</b></span> <span>State: <b>Florida</b></span> <span>Zip Code: <b>34605-0006</b></span> </div>
3. Facility Contact Telephone Numbers: Telephone: <b>(352) 796-7241</b> ext.      Fax: <b>(352) 754-9836</b>
4. Facility Contact Email Address: <b>cwalz@cemexusa.com</b>

#### Facility Primary Responsible Official

**Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."**

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>City:</span> <span>State:</span> <span>Zip Code:</span> </div>
3. Facility Primary Responsible Official Telephone Numbers... Telephone: ( ) -      ext.      Fax: ( ) -
4. Facility Primary Responsible Official Email Address:

## FACILITY INFORMATION

### Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”

1. <input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source	
3. <input checked="" type="checkbox"/> Title V Source	
4. <input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. <input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7. <input type="checkbox"/> Synthetic Minor Source of HAPs	
8. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. <input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. <input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	



**FACILITY INFORMATION**

**List of Pollutants Emitted by Facility**

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
PM	A	N
PM <sub>10</sub>	A	N
NO <sub>x</sub>	A	N
SO <sub>2</sub>	A	N
CO	A	N
VOC	A	N
HCl	A	N
HAPs - Total	A	N

**FACILITY INFORMATION**

**B. EMISSIONS CAPS**

**Facility-Wide or Multi-Unit Emissions Caps**

1. Pollutant Subject to Emissions Cap	2. Facility Wide Cap [Y or N]? (all units)	3. Emissions Unit ID No.s Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

## FACILITY INFORMATION

### C. FACILITY ADDITIONAL INFORMATION

#### Additional Requirements for All Applications, Except as Otherwise Stated

1. Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>10/05</u>
2. Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>10/05</u>
3. Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>10/05</u>

#### Additional Requirements for Air Construction Permit Applications

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (existing permitted facility)
2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): <input checked="" type="checkbox"/> Attached, Document ID: <u>A</u>
3. Rule Applicability Analysis: <input checked="" type="checkbox"/> Attached, Document ID: <u>A</u>
4. List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**FACILITY INFORMATION**

**Additional Requirements for FESOP Applications**

1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.):  
 Attached, Document ID: \_\_\_\_\_  Not Applicable (no exempt units at facility)

**Additional Requirements for Title V Air Operation Permit Applications N/A**

1. List of Insignificant Activities (Required for initial/renewal applications only):  
 Attached, Document ID: \_\_\_\_\_  Not Applicable (revision application)

2. Identification of Applicable Requirements (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought):  
 Attached, Document ID: \_\_\_\_\_  
 Not Applicable (revision application with no change in applicable requirements)

3. Compliance Report and Plan (Required for all initial/revision/renewal applications):  
 Attached, Document ID: \_\_\_\_\_  
Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.

4. List of Equipment/Activities Regulated under Title VI (If applicable, required for initial/renewal applications only):  
 Attached, Document ID: \_\_\_\_\_  
 Equipment/Activities On site but Not Required to be Individually Listed  
 Not Applicable

5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only) :  
 Attached, Document ID: \_\_\_\_\_  Not Applicable

6. Requested Changes to Current Title V Air Operation Permit:  
 Attached, Document ID: \_\_\_\_\_  Not Applicable

**Additional Requirements Comment**

## EMISSIONS UNIT INFORMATION

Section [1] of [2]

Cement Kiln No. 1

### III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application** - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application** - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application** - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

Cement Kiln No. 1

**A. GENERAL EMISSIONS UNIT INFORMATION**

**Title V Air Operation Permit Emissions Unit Classification**

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
- The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in this Section: (Check one)
- This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
- This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
- This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section: **Cement Kiln No. 1**

3. Emissions Unit Identification Number: **003**

4. Emissions Unit Status Code: <b>A</b>	5. Commence Construction Date: <b>N/A</b>	6. Initial Startup Date: <b>N/A</b>	7. Emissions Unit Major Group SIC Code: <b>32</b>	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--	--	--	--

9. Package Unit:  
Manufacturer: \_\_\_\_\_ Model Number: \_\_\_\_\_

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

Cement Kiln No. 1

**E. EMISSIONS UNIT POLLUTANTS**

**List of Pollutants Emitted by Emissions Unit**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
<b>NO<sub>x</sub></b>	<b>032/205</b>		<b>EL</b>

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]  
Cement Kiln No. 1

**POLLUTANT DETAIL INFORMATION**

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Nitrogen Oxides

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

**(Optional for unregulated emissions units.)**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

**Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

1. Pollutant Emitted: <b>NOx</b>		2. Total Percent Efficiency of Control:	
3. Potential Emissions: <b>179.6 lb/hour                      786.5 tons/year</b>		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: <b>179.6 lb/hr</b>  Reference: <b>proposed emissions limit (12-month rolling average)</b>		7. Emissions Method Code: <b>0</b>	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From:                      To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: <b>179.6 lb/hr x 8,760 hr/yr x 1 ton/2,000 lb = 786.5 TPY</b>			
11. Potential, Fugitive, and Actual Emissions Comment:			



**EMISSIONS UNIT INFORMATION**

Section [1] of [2]  
Cement Kiln No. 1

**POLLUTANT DETAIL INFORMATION**

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Nitrogen Oxides

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
ALLOWABLE EMISSIONS**

**Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.**

**Allowable Emissions** Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: <b>ESCPSD</b>	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: <b>179.6 lb/hr (12-month rolling average)</b>	4. Equivalent Allowable Emissions: <b>179.6 lb/hour* 786.5 tons/year*</b>
5. Method of Compliance: <b>NO<sub>x</sub> CEMS</b>	
6. Allowable Emissions Comment (Description of Operating Method): <b>*Hourly and annual emissions limits are on a 12-month rolling average. Limits are based on avoiding PSD (based on 2005 PSD application).</b>	

**Allowable Emissions** Allowable Emissions    of   

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions    of   

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

Cement Kiln No. 1

**I. EMISSIONS UNIT ADDITIONAL INFORMATION**

**Additional Requirements for All Applications, Except as Otherwise Stated**

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u> <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input checked="" type="checkbox"/> Not Applicable  Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

Cement Kiln No. 1

**Additional Requirements for Air Construction Permit Applications**

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**Additional Requirements for Title V Air Operation Permit Applications N/A**

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

**Additional Requirements Comment**

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## EMISSIONS UNIT INFORMATION

Section [2] of [2]

Cement Kiln No. 2

### III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application** - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application** - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application** - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

Cement Kiln No. 2

**A. GENERAL EMISSIONS UNIT INFORMATION**

**Title V Air Operation Permit Emissions Unit Classification**

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section: **Cement Kiln No. 2**

3. Emissions Unit Identification Number: **014**

4. Emissions Unit Status Code: <b>A</b>	5. Commence Construction Date: <b>N/A</b>	6. Initial Startup Date: <b>N/A</b>	7. Emissions Unit Major Group SIC Code: <b>32</b>	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--	--	--	--

9. Package Unit:  
Manufacturer: \_\_\_\_\_ Model Number: \_\_\_\_\_

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

Cement Kiln No. 2

**E. EMISSIONS UNIT POLLUTANTS**

**List of Pollutants Emitted by Emissions Unit**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NO <sub>x</sub>	032/205		EL

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]  
Cement Kiln No. 2

**POLLUTANT DETAIL INFORMATION**

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Nitrogen Oxides

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: <b>NOx</b>		2. Total Percent Efficiency of Control:	
3. Potential Emissions: <b>179.6 lb/hour                      786.5 tons/year</b>		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: <b>179.6 lb/hr</b>  Reference: <b>proposed emissions limit (12-month rolling average)</b>		7. Emissions Method Code: <b>0</b>	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From:                      To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: <b>179.6 lb/hr x 8,760 hr/yr x 1 ton/2,000 lb = 786.5 TPY</b>			
11. Potential, Fugitive, and Actual Emissions Comment:			



**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
 ALLOWABLE EMISSIONS**

**Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.**

**Allowable Emissions** Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: <b>ESCPSD</b>	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: <b>179.6 lb/hr (12-month rolling average)</b>	4. Equivalent Allowable Emissions: <b>179.6 lb/hour* 786.5 tons/year*</b>
5. Method of Compliance: <b>NOx CEMS</b>	
6. Allowable Emissions Comment (Description of Operating Method): <b>*Hourly and annual emissions limits are on a 12-month rolling average. Limits are based on avoiding PSD (based on 2005 PSD application).</b>	

**Allowable Emissions** Allowable Emissions \_\_ of \_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions \_\_ of \_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

Cement Kiln No. 2

**I. EMISSIONS UNIT ADDITIONAL INFORMATION**

**Additional Requirements for All Applications, Except as Otherwise Stated**

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u>
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>10/05</u> <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input checked="" type="checkbox"/> Not Applicable  Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

Cement Kiln No. 2

**Additional Requirements for Air Construction Permit Applications**

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**Additional Requirements for Title V Air Operation Permit Applications N/A**

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

**Additional Requirements Comment**

[Empty rectangular box for additional requirements comment]

**ATTACHMENT A**  
**DESCRIPTION OF PROPOSED PROJECT**

**ATTACHMENT A**  
**DESCRIPTION OF PROPOSED PROJECT**

CEMEX Cement, Inc. (CEMEX), operates a Portland cement manufacturing plant in Brooksville, Florida. The Cement Kilns Nos. 1 (EU 003) and 2 (EU 014) were recently permitted (Permit No. 0530010-026-AC) to install an indirect firing system, low-NO<sub>x</sub> burners, and SNCR. That construction permit limits NO<sub>x</sub> emissions (condition 5) to 1.21 pounds per ton (lb/ton) of dry preheater feed and 181.5 lb/hr (NO<sub>2</sub>) on a 30-day rolling average. CEMEX is required to achieve this emission rate by June 30, 2007, which is the expiration date of the permit. CEMEX is now requesting the following:

- A 2-year extension of Permit No. 0530010-026-AC; and
- A revision of the NO<sub>x</sub> emission limit to be 179.6 lb/hr and 786.5 TPY (both on a 12-month rolling average).

The basis for this request is discussed further below.

CEMEX is requesting a 2-year extension of the construction permit to allow additional time to complete the installation of the Indirect Firing System to achieve reduced NO<sub>x</sub> emissions on a continuous basis. CEMEX is still moving forward with this project and has been able to achieve reduced NO<sub>x</sub> emissions. As shown in the attached Figure 1 (see also data including the minimum, maximum, and average for each kiln in Table 1), CEMEX has recently been able to achieve the lower NO<sub>x</sub> limit of 1.21 lb/ton preheater feed. However, without the installation of the indirect firing system, CEMEX cannot guarantee continuous compliance with the reduced NO<sub>x</sub> limit.

In addition, CEMEX is requesting a revision to the NO<sub>x</sub> limit contained in the referenced construction permit to remove the lb/ton limit. Since the NO<sub>x</sub> emission limits for both Kiln No. 1 and Kiln No. 2 were established to avoid PSD, and not as BACT, CEMEX is requesting NO<sub>x</sub> emission limits stated in terms of pounds per hour (lb/hr) and tons per year (TPY) only. The NO<sub>x</sub> limit of 1.21 lb/ton preheater feed can be included as an equivalent emission limit but not as an enforceable limit.

The rationale for this request is that the annual NO<sub>x</sub> emission limit from each kiln was established at 786.5 TPY to avoid a PSD review; including the avoidance of a BACT determination. This being the case, the only assurance the Department needs is that the annual NO<sub>x</sub> emissions from each kiln will not exceed 786.5 TPY.

To achieve this assurance, it is suggested that the permit contain an hourly NO<sub>x</sub> emissions limit of 179.6 lb/hr (786.5 TPY divided by 8,760 hours per year) and annual emission limit of 786.5 TPY, both 12-month rolling averages. These limits can be verified with the certified NO<sub>x</sub> CEMS.

A precedent was set by the Department setting an annual average NO<sub>x</sub> emission rate for the Titan America Pensuco plant in Dade County. Excerpts from the Technical Evaluation and Preliminary Determination (TEPD) for Titan America Permit 0250020-016-AC and from that permit (dated April 5, 2005) are included as Attachment B. In the excerpt from the TEPD, the pollutant netting analysis is presented documenting PSD avoidance and the excerpt from the permit shows permit limits for NO<sub>x</sub>, SO<sub>2</sub>, CO, VOC, and acid mist all with 12-month rolling average limits. CEMEX is also requesting a 12-month rolling average.

In summary, the 30-day rolling average NO<sub>x</sub> emission limits for Kiln No. 1 and Kiln No. 2 of 1.21 lb/ton of preheater feed and 181.5 lb/hr should be changed to 179.6 lb/hr and 786.5 TPY, 12-month rolling averages. Compliance with these limits will be demonstrated with the NO<sub>x</sub> CEMS on each kiln. It should be noted that in calculating these averages, all hours in the year will be used; both hours when a kiln is operating and hours when a kiln is not operating (i.e., zero NO<sub>x</sub> emissions). This is because the 179.6 lb/hr limit is based on 8,760 hr/yr of operations ( $179.5 \text{ lb/hr} \times 8,760 \text{ hr/yr} \times 1 / 2,000 \text{ lb/ton} = 786.5 \text{ TPY}$ ). It is also noted that Al Linero stated that the NO<sub>x</sub> limit contained in the referenced construction permit is the lowest NO<sub>x</sub> limit of any preheater kiln in the country using SNCR.

Figure 1. Summary of NOx CEMS Data for Kiln 1 and Kiln 2

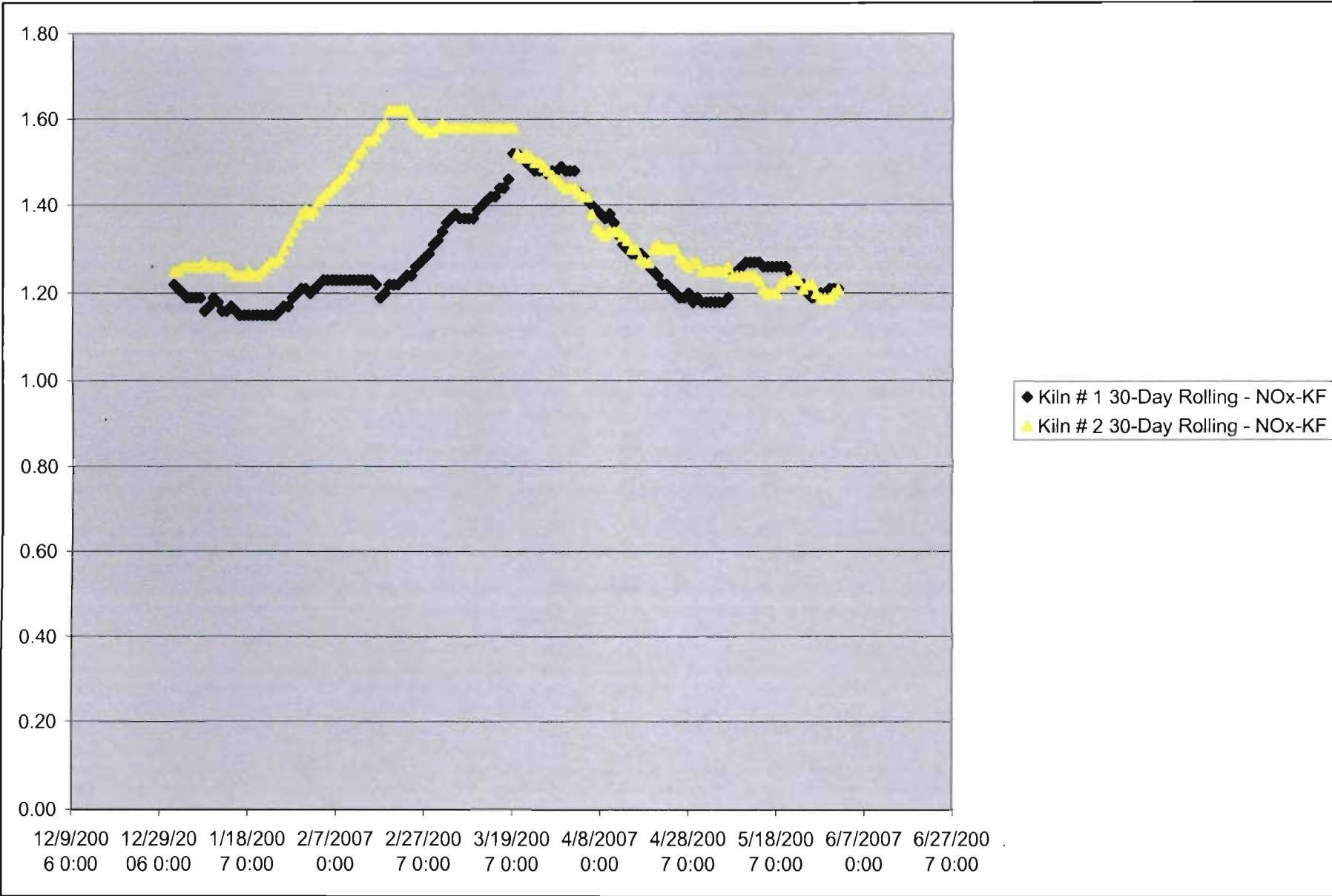




Table 1. Summary of 30-Day Rolling Average NOx CEMS Data- Kilns 1 and 2  
CEMEX Brooksville

Date/Time	Kiln # 1 30-Day Rolling - NOx-KF	Kiln # 2 30-Day Rolling - NOx-KF
1/1/2007 0:00	1.22	1.25
1/2/2007 0:00	1.21	1.25
1/3/2007 0:00	1.20	1.26
1/4/2007 0:00	1.19	1.26
1/5/2007 0:00	1.19	1.26
1/6/2007 0:00	1.19	1.26
1/7/2007 0:00	1.19	1.26
1/8/2007 0:00	1.16	1.27
1/9/2007 0:00	1.17	1.26
1/10/2007 0:00	1.19	1.26
1/11/2007 0:00	1.18	1.26
1/12/2007 0:00	1.16	1.26
1/13/2007 0:00	1.16	1.26
1/14/2007 0:00	1.17	1.25
1/15/2007 0:00	1.16	1.24
1/16/2007 0:00	1.15	1.24
1/17/2007 0:00	1.15	1.24
1/18/2007 0:00	1.15	1.25
1/19/2007 0:00	1.15	1.24
1/20/2007 0:00	1.15	1.24
1/21/2007 0:00	1.15	1.25
1/22/2007 0:00	1.15	1.26
1/23/2007 0:00	1.15	1.27
1/24/2007 0:00	1.15	1.27
1/25/2007 0:00	1.16	1.28
1/26/2007 0:00	1.17	1.30
1/27/2007 0:00	1.17	1.32
1/28/2007 0:00	1.19	1.34
1/29/2007 0:00	1.20	1.36
1/30/2007 0:00	1.21	1.38
1/31/2007 0:00	1.21	1.39
2/1/2007 0:00	1.20	1.38
2/2/2007 0:00	1.21	1.39
2/3/2007 0:00	1.22	1.41
2/4/2007 0:00	1.23	1.42
2/5/2007 0:00	1.23	1.43
2/6/2007 0:00	1.23	1.44
2/7/2007 0:00	1.23	1.45
2/8/2007 0:00	1.23	1.46
2/9/2007 0:00	1.23	1.47
2/10/2007 0:00	1.23	1.49
2/11/2007 0:00	1.23	1.50
2/12/2007 0:00	1.23	1.52
2/13/2007 0:00	1.23	1.53
2/14/2007 0:00	1.23	1.55
2/15/2007 0:00	1.23	1.55
2/16/2007 0:00	1.22	1.56

Table 1. Summary of 30-Day Rolling Average NOx CEMS Data- Kilns 1 and 2  
CEMEX Brooksville

Date/Time	Kiln # 1 30-Day Rolling - NOx-KF	Kiln # 2 30-Day Rolling - NOx-KF
2/17/2007 0:00	1.19	1.58
2/18/2007 0:00	1.20	1.59
2/19/2007 0:00	1.22	1.62
2/20/2007 0:00	1.22	1.62
2/21/2007 0:00	1.22	1.62
2/22/2007 0:00	1.23	1.62
2/23/2007 0:00	1.24	1.62
2/24/2007 0:00	1.24	1.60
2/25/2007 0:00	1.26	1.59
2/26/2007 0:00	1.27	1.58
2/27/2007 0:00	1.28	1.58
2/28/2007 0:00	1.29	1.57
3/1/2007 0:00	1.31	1.57
3/2/2007 0:00	1.32	1.58
3/3/2007 0:00	1.34	1.59
3/4/2007 0:00	1.36	1.58
3/5/2007 0:00	1.37	1.58
3/6/2007 0:00	1.38	1.58
3/7/2007 0:00	1.37	1.58
3/8/2007 0:00	1.37	1.58
3/9/2007 0:00	1.37	1.58
3/10/2007 0:00	1.37	1.58
3/11/2007 0:00	1.39	1.58
3/12/2007 0:00	1.40	1.58
3/13/2007 0:00	1.41	1.58
3/14/2007 0:00	1.42	1.58
3/15/2007 0:00	1.42	1.58
3/16/2007 0:00	1.44	1.58
3/17/2007 0:00	1.44	1.58
3/18/2007 0:00	1.46	1.58
3/19/2007 0:00	1.52	1.58
3/20/2007 0:00	1.52	1.52
3/21/2007 0:00	1.51	1.51
3/22/2007 0:00	1.50	1.52
3/23/2007 0:00	1.49	1.51
3/24/2007 0:00	1.48	1.50
3/25/2007 0:00	1.48	1.50
3/26/2007 0:00	1.48	1.49
3/27/2007 0:00	1.47	1.48
3/28/2007 0:00	1.48	1.47
3/29/2007 0:00	1.48	1.46
3/30/2007 0:00	1.49	1.45
3/31/2007 0:00	1.48	1.44
4/1/2007 0:00	1.48	1.44
4/2/2007 0:00	1.48	1.44
4/3/2007 0:00	1.43	1.43
4/4/2007 0:00	1.42	1.42

Table 1. Summary of 30-Day Rolling Average NOx CEMS Data- Kilns 1 and 2  
CEMEX Brooksville

Date/Time	Kiln # 1 30-Day Rolling - NOx-KF	Kiln # 2 30-Day Rolling - NOx-KF
4/5/2007 0:00	1.41	1.42
4/6/2007 0:00	1.40	1.38
4/7/2007 0:00	1.39	1.35
4/8/2007 0:00	1.38	1.34
4/9/2007 0:00	1.37	1.33
4/10/2007 0:00	1.38	1.34
4/11/2007 0:00	1.36	1.34
4/12/2007 0:00	1.33	1.34
4/13/2007 0:00	1.31	1.33
4/14/2007 0:00	1.30	1.32
4/15/2007 0:00	1.29	1.30
4/16/2007 0:00	1.29	1.30
4/17/2007 0:00	1.29	1.28
4/18/2007 0:00	1.28	1.27
4/19/2007 0:00	1.26	1.27
4/20/2007 0:00	1.25	1.30
4/21/2007 0:00	1.24	1.31
4/22/2007 0:00	1.22	1.30
4/23/2007 0:00	1.22	1.30
4/24/2007 0:00	1.21	1.30
4/25/2007 0:00	1.20	1.30
4/26/2007 0:00	1.19	1.28
4/27/2007 0:00	1.19	1.27
4/28/2007 0:00	1.20	1.26
4/29/2007 0:00	1.18	1.27
4/30/2007 0:00	1.19	1.27
5/1/2007 0:00	1.18	1.25
5/2/2007 0:00	1.18	1.25
5/3/2007 0:00	1.18	1.25
5/4/2007 0:00	1.18	1.25
5/5/2007 0:00	1.18	1.25
5/6/2007 0:00	1.18	1.25
5/7/2007 0:00	1.19	1.26
5/8/2007 0:00	1.24	1.24
5/9/2007 0:00	1.25	1.24
5/10/2007 0:00	1.26	1.24
5/11/2007 0:00	1.27	1.24
5/12/2007 0:00	1.27	1.24
5/13/2007 0:00	1.27	1.24
5/14/2007 0:00	1.27	1.23
5/15/2007 0:00	1.26	1.21
5/16/2007 0:00	1.26	1.20
5/17/2007 0:00	1.26	1.20
5/18/2007 0:00	1.26	1.20
5/19/2007 0:00	1.26	1.22
5/20/2007 0:00	1.26	1.23
5/21/2007 0:00	1.24	1.23

Table 1. Summary of 30-Day Rolling Average NOx CEMS Data- Kilns 1 and 2  
 CEMEX Brooksville

Date/Time	Kiln # 1 30-Day Rolling - NOx-KF	Kiln # 2 30-Day Rolling - NOx-KF
5/22/2007 0:00	1.23	1.24
5/23/2007 0:00	1.22	1.23
5/24/2007 0:00	1.22	1.21
5/25/2007 0:00	1.20	1.22
5/26/2007 0:00	1.19	1.22
5/27/2007 0:00	1.19	1.20
5/28/2007 0:00	1.20	1.19
5/29/2007 0:00	1.20	1.19
5/30/2007 0:00	1.21	1.19
5/31/2007 0:00	1.21	1.20
6/1/2007 0:00	1.21	1.21
<b>Maximum =</b>	<b>1.52</b>	<b>1.62</b>
<b>Minimum =</b>	<b>1.15</b>	<b>1.19</b>
<b>Average =</b>	<b>1.27</b>	<b>1.38</b>

**ATTACHMENT B**

**EXCERPTS FROM TITAN AMERICA  
PERMIT NO. 0250020-016-AC**

From the Technical Evaluation and Preliminary Determination for Titan America Permit 0250020-016-AC, dated April 5, 2005:

**VII. PROJECT EMISSION INCREASES AND DECREASES**

Titan updated the previous contemporaneous emissions calculations that had been submitted in 1998 in support of the modernization project. Following is a recap of the actual emission decreases and the potential emission increases in tons per year (TPY). As previously mentioned, the most recent request by Tarmac affects only PM/PM<sub>10</sub>.

Pollutant	Increases Dry Process at Proposed Capacity	Decreases Wet Process Actual Emissions	Net Increases (Decreases)	PSD Significant Emission Rate
PM	368	366	2	25
PM <sub>10</sub>	321	315	6	15
SO <sub>2</sub>	806	1,432	(626)	40
NO <sub>x</sub>	1,953	2,284	(331)	40
CO	1,457	1,368	89	100
VOC	155	131	25	40
H <sub>2</sub> SO <sub>4</sub>	8.9	257	(248)	7
Hg	0.0149	0.0236	(0.0087)	0.1
Pb	0.0465	0.0393	0.0071	0.6

Actual emissions are likely to be much lower for PM/PM<sub>10</sub>, CO, and SO<sub>2</sub> based on the emission test results discussed in the previous section. NO<sub>x</sub> emissions are likely to be significantly less than estimated above. Hg emissions are likely to be somewhat greater than estimated above. However they will not exceed the significant emission rate of 200 lb/year.

From Titan Permit 0250020-016-AC:

B.23 SO<sub>2</sub>, NO<sub>x</sub>, CO, VOC, and SAM Emission Limits: The emissions from the Raw Mill/Pyroprocessing system shall not exceed the limits shown in the following table:

Pollutant	Allowable Emissions		Emissions Limits in lbs./ton of clinker		Monitors
	12-month rolling average in TPY <sup>(a)</sup>	Lbs./hr 24-hr average	24-hr avg. @208 TPH of clinker production <sup>(b)</sup>	24-hr average @250 TPH of clinker production	
SO <sub>2</sub>	806	520	1.54	1.28	CEM
NO <sub>x</sub>	1953	720	3.46	2.88	CEM
CO <sup>(a)</sup>	1457	576	2.76	2.50	Process
VOC	155	40	0.19	0.16	CEM
SAM	8.88	2.24	0.009	0.009	

Notes:

- <sup>(a)</sup> The 12-month rolling average in TPY would be the average of the daily values for the current month and the preceding 11 months. The averages shall be based on the operating days or hours, and shall exclude days or hours in which the plant is not operating.
- <sup>(b)</sup> The averaging time for CO corresponds to the required length of sampling for the initial and subsequent emission tests.

[Rules 62-4.070(3) and 62-212.400, F.A.C.; Permit 0250020-010-AC]