



KOOGLER & ASSOCIATES
ENVIRONMENTAL SERVICES

4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
352/377-5822 • FAX/377-7158

KA 307-11-03
April 14, 2011

RECEIVED

APR 15 2011

BUREAU OF
AIR REGULATION

Mr. Jeff Koerner
Florida Department of Environmental Protection
Ambient Monitoring Section
2600 Blair Stone Road MS 5510
Tallahassee, FL 32399-2400

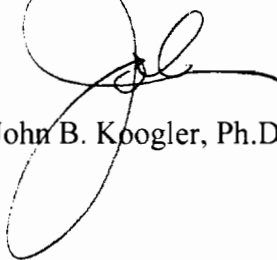
**RE: CEMEX Construction Materials Florida, LLC
Brooksville South Cement Plant
Permit Application for Facility ID 0530021**

Dear Jeff:

Enclosed, please find three (3) copies of a permit application for the above referenced facility addressing a production rate increase for Line No. 2, changes in the format of the PM/PM₁₀ emission limits for the finish mill of Line No. 2 and the re-designation of a small emission unit (EU-008) serving Line No. 1 as an insignificant activity. As you suggested, one copy of the application is being sent to the FDEP Southwest District Office.

If you should have any questions regarding this application, please do not hesitate to contact me at (352) 377-5822 or JKoogler@kooglerassociates.com or George Townsend, CEMEX Environmental Manager, at (352) 799-7881 or GTownsend@cemexusa.com.

Best regards,
KOOGLER AND ASSOCIATES, INC.



John B. Koogler, Ph.D., P.E.

Enclosure: Application Form – 3 copies

cc: Cindy Zhang-Torres, FDEP SW District (*with application copy*)
J. Daniel, CEMEX (*via email*)
L. DePrimo, CEMEX (*via email*)
G. Townsend, CEMEX (*via email*)
Segundo Fernandez, Esquire (*via email*)



**Department of
Environmental Protection**
Division of Air Resource Management
APPLICATION FOR AIR PERMIT - LONG FORM

RECEIVED
APR 15 2011
BUREAU OF
AIR REGULATION

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- 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, or renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: CEMEX Construction Materials Florida, LLC	
2. Site Name: Brooksville South Cement Plant	
3. Facility Identification Number: 0530021	
4. Facility Location... Street Address or Other Locator: 10311 Cement Plant Road City: Brooksville County: Hernando Zip Code: 34601	
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: John B. Koogler, Ph. D, P. E.	
2. Application Contact Mailing Address... Organization/Firm: Koogler and Associates, Inc. Street Address: 4014 Northwest 13th Street City: Gainesville State: Florida Zip Code: 32609	
3. Application Contact Telephone Numbers... Telephone: (352) 377-5822 ext. Fax: (352) 377-7158	
4. Application Contact E-mail Address: jkoogler@kooglerassociates.com	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	3. PSD Number (if applicable):
2. Project Number(s):	4. Siting Number (if applicable):

APPLICATION INFORMATION

Purpose of Application

This application for air permit is being 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

This application is for a permit modification to allow Cemex to increase the maximum production rate of Kiln No. 2 (EU 044) from 2,800 tons of clinker per day to 3,500 tons of clinker per day. Corresponding to the increased production rate of the kiln, there will be concomitant increases in material throughput or increases in operating times in several other areas of the plant (addressed herein).

In addition to increasing thru-put of Finish Mill No. 2 (to accommodate the rate increase of Kiln No. 2) the PM/PM10 emission limits of the Finish Mill (EU-052) are restated, and at the request of the FDEP SW District, EU-008 (Clinker Handling) is being reclassified as an Insignificant Activity .

The changes requested herein will be accomplished without physical modification and without significant emission rate increases to avoid PSD.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
044	Kiln No. 2/Preheater/Precalciner/Clinker Cooler/Air Heater	AC1C	N/A
045	Filter Dust		
046	Raw Meal Transport		
047	Kiln Feed Transport		
048	Clinker Transport		
050	Clinker Storage		
051	Finish Mill Collecting Bin		
052	Finish Mill		
054	Bucket Elevator		
057	Cement Transport		
058	Cement Loadout Bin		
059	Cement Loadout Bin		
060	Coal Mill		
061	Fine Coal Bin		
062	Packing Plant		
008	Clinker Receiving and Handling		

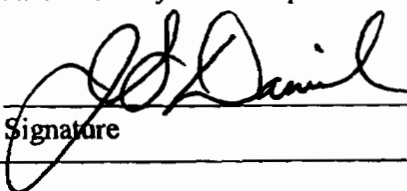
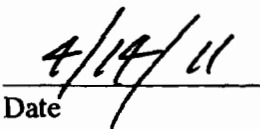
Application Processing Fee

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 : Jim Daniel, Cement Plant Manager
2. Owner/Authorized Representative Mailing Address... Organization/Firm: CEMEX Construction Materials Florida, LLC Street Address: 10311 Cement Plant Road City: Brooksville State: Florida Zip Code: 34601
3. Owner/Authorized Representative Telephone Numbers... Telephone: (352) 799-7881 ext. Fax: (352) 540-4794
4. Owner/Authorized Representative E-mail Address: jdaniel@cemexusa.com
5. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.</i>  Signature  Date

APPLICATION INFORMATION

Application Responsible Official Certification

Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation 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 or CAIR 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 E-mail Address:			
6. Application Responsible Official Certification:			
<p><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></p>			
_____ Signature		_____ Date	

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: **John B. Koogler, Ph. D., P. E.**
Registration Number: **12925**

2. Professional Engineer Mailing Address...
Organization/Firm: **Koogler and Associates, Inc.**
Street Address: **4014 Northwest 13th Street**
City: **Gainesville** State: **Florida** Zip Code: **32609**

3. Professional Engineer Telephone Numbers...
Telephone: **(352) 377-5822** ext. Fax: **(352) 377-7158**

4. Professional Engineer E-mail Address: **jkoogler@kooglerassociates.com**

5. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(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*

(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.*

(3) *If the purpose of this application is to obtain a Title V air operation permit (check here , 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.*

(4) *If the purpose of this application is to obtain an air construction permit (check here , 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 , 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.*

(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 , 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.*

Signature

Date

4/14/2011

* 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) 360.0 North (km) 3162.5		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 32	6. Facility SIC(s): 3241
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: George Townsend, Environmental Manager
2. Facility Contact Mailing Address... Organization/Firm: CEMEX Construction Materials Florida, LLC Street Address: 10311 Cement Plant Road City: Brooksville State: Florida Zip Code: 34601
3. Facility Contact Telephone Numbers: Telephone: (352) 799-7881 ext. Fax: (352) 799-6088
4. Facility Contact E-mail Address: gtownsend@cemexusa.com

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 E-mail Address:

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:	
<p>The Brooksville Cement Plants are subject to; 40 CFR 60 Subpart F: Standards of Performance for Portland Cement Plants (superseded in part by 40 CFR 63, Subpart LLL); 40 CFR 60, Subpart Y: Standards of Performance for Coal Preparation Plants; and 40 CFR 63 Subpart LLL: National Emission Standards for Hazardous Air Pollutants from the Portland Cement Industry.</p>	

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
PM	A	N
PM ₁₀	A	
SO ₂	A	
NO _x	A	
CO	A	
THC/VOC	A	
HAPs	A	
D/F	B	
H114	B	
SAM	B	
FL	B	

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps – N/A

1. Pollutant Subject to Emissions Cap	2. Facility-Wide Cap [Y or N]? (all units)	3. Emissions Unit ID'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:

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: 11/8/2010
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: 11/8/2010
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: 11/8/2010

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 type="checkbox"/> Attached, Document ID: Refer to Attachments A and B.
3. Rule Applicability Analysis: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. List of Exempt Emissions Units: <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

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications - NA

1. List of Exempt Emissions Units:

- Attached, Document ID: _____ Not Applicable (no exempt units at facility)

Additional Requirements for Title V Air Operation Permit Applications - NA

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 Onsite 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

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirement for Facilities Subject to Acid Rain, CAIR or Hg Budget Program-NA

1. Acid Rain Program Forms:

Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):

- Attached, Document ID: _____ Previously Submitted, Date: _____
 Not Applicable (not an Acid Rain source)

Phase II NO_x Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):

- Attached, Document ID: _____ Previously Submitted, Date: _____
 Not Applicable

New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):

- Attached, Document ID: _____ Previously Submitted, Date: _____
 Not Applicable

2. CAIR Part (DEP Form No. 62-210.900(1)(b)):

- Attached, Document ID: _____ Previously Submitted, Date: _____
 Not Applicable (not a CAIR source)

Additional Requirements Comment

EMISSIONS UNIT INFORMATION

Section [1] of [16]

EU 008 Clinker Receiving/Handling System

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [16]

EU 008 Clinker Receiving/Handling System

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: **Clinker Receiving/Handling System (S-04)**

3. Emissions Unit Identification Number: **008**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 32
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8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

9. Package Unit:

Manufacturer:

Model Number:

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment: This emissions unit is an integrated system for handling clinker that includes an unloading hopper, a belt conveyor, and a deep-bucket conveyor. It is requested that this EU be listed as an Insignificant Activity as the EU operates infrequently (~200 hrs in 2010) and operates on an unpredictable schedule making it very difficult to schedule compliance testing. Listing the EU as Insignificant is a suggestion of FDEP staff of the SW District Office, Tampa. PM emissions from the EU are fugitive, controlled by high-pressure atomized water sprays.

EMISSIONS UNIT INFORMATION

Section [1] of [16]

EU 008 Clinker Receiving/Handling System

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:
Dust Suppression by Water Sprays

2. Control Device or Method Code: **061**

Emissions Unit Control Equipment/Method: Control _ of _

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control __ of __

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control __ of __

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [1] of [16]
System

EU 008 Clinker Receiving/Handling

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 100 TPH		
2. Maximum Production Rate:		
3. Maximum Heat Input Rate: million Btu/hr		
4. Maximum Incineration Rate: pounds/hr tons/day		
5. Requested Maximum Operating Schedule:		
24 hours/day	7 days/week	
52 weeks/year	8,760 hours/year	
6. Operating Capacity/Schedule Comment:		
<p>The EU typically operates 200-300 hours per year on an unpredictable schedule; e.g., in 2010, the unit operated ~250 hours and handled 8110 tons of reclaimed clinker.</p>		

EMISSIONS UNIT INFORMATION

Section [1] of [16]

EU 008 Clinker Receiving/Handling System

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: S-04		2. Emission Point Type Code: 4	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: F	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: 0 feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [1] of [16]

EU 008 Clinker Receiving/Handling System

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Clinker Transfer		
2. Source Classification Code (SCC): 3-05-006-16		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 100	5. Maximum Annual Rate: 876,000*	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: * - Actual annual rate is typically <10,000 tpy		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [1] of [16]

EU 008 Clinker Receiving/Handling System

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
PM	061		EL

EMISSIONS UNIT INFORMATION

Section [1] of [16]
 EU 008 Clinker Receiving/Handling System

POLLUTANT DETAIL INFORMATION

Page [1] of [1]
 Particulate Matter-PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
 (Optional for unregulated emissions units.)**

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.7 lb/hour 3.1 tons/year		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: 0.7 lb/hr - Based on BACT Estimate and Permit No. 0530021-021-AV Reference:		7. Emissions Method Code: 0	
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: <p>0.7 lb/hr x 8760 hr/yr x 1 ton/2000 lb = 3.07 TPY Note: Based on typical annual hours of operation (typically <300 hr/yr), annual emissions are estimated to be <0.1 tpy.</p> <p>Because of the insignificant annual emission rate and the difficulty of scheduling compliance testing on the EU (because of the unscheduled operations), the FDEP SW District office suggested the EU be classified as an Insignificant Activity.</p>			

11. Potential, Fugitive, and Actual Emissions Comment:

[Empty comment box]

EMISSIONS UNIT INFORMATION
 Section [1] of [16]
 EU 008 Clinker Receiving/Handling System

POLLUTANT DETAIL INFORMATION
 Page [1] of [1]
 Particulate Matter-PM

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

Complete Subsection F2 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: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.7 lb/hr	4. Equivalent Allowable Emissions: 0.7 lb/hour 3.1* tons/year
5. Method of Compliance: Listing as an Insignificant Activity with no compliance requirements is requested based on the suggestion of the FDEP SW District Office.	
6. Allowable Emissions Comment (Description of Operating Method): Typical annual PM emissions are <0.1 tpy based on a typical annual operating time of <300 hr/yr.	

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 [16]

EU 008 Clinker Receiving/Handling System

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: NA	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment: <p style="text-align: center;">Listing as an Insignificant Activity with no compliance requirements is requested based on the suggestion of the FDEP SW District Office.</p>	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: NA	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [16]

EU 008 Clinker Receiving/Handling System

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___ NA

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [16]

EU 008 Clinker Receiving/Handling System

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 _____
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 type="checkbox"/> Previously Submitted, Date _____
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 _____
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 type="checkbox"/> Previously Submitted, Date _____
<input checked="" 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: Feb, 2011
Test Date(s)/Pollutant(s) Tested: VE
<input type="checkbox"/> To be Submitted, Date (if known): _____
Test Date(s)/Pollutant(s) Tested: _____
<input 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:

Attached, Document ID: _____ Not Applicable

EMISSIONS UNIT INFORMATION

Section [1] of [16]

EU 008 Clinker Receiving/Handling System

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 (Rules 62-212.400(4)(d) and 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 - NA

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

Additional Requirements Comment

The Clinker Receiving/Handling System (EU 008) does not use a control device as defined by 40 CFR Part 64. Therefore CAM does not apply to this source.

Listing as an Insignificant Activity with no compliance requirements is requested based on the suggestion of the FDEP SW District Office.

See Attachment A for additional details.

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [16]

EU 044 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:
Kiln No. 2, In-line Raw Mill, Pre-Heater, Pre-Calcliner and Clinker Cooler

3. Emissions Unit Identification Number: **044**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
--	--	------------------------------------	--

8. Federal Program Applicability: (Check all that apply) **N/A**

Acid Rain Unit

CAIR Unit

9. Package Unit:
 Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 Kiln No. 2

Emissions Unit Control Equipment/Method: Control 1 of 2

1. Control Equipment/Method Description: Baghouse – High Temperature
2. Control Device or Method Code: 016

Emissions Unit Control Equipment/Method: Control 2 of 2

1. Control Equipment/Method Description: Selective Noncatalytic Reduction (SNCR)
2. Control Device or Method Code: 107

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 Kiln No. 2

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 258 TPH; 5775 TPD; 2,107,875 TPY dry preheater feed & flyash rate		
2. Maximum Production Rate: 156 TPH; 3,500 TPD; 1,277,500 tons/consecutive 12-month clinker		
3. Maximum Heat Input Rate: 490 million Btu/hr, 24-hr avg.		
4. Maximum Incineration Rate: pounds/hr tons/day		
5. Requested Maximum Operating Schedule:		
24 hours/day	7 days/week	
52 weeks/year	8,760 hours/year	
6. Operating Capacity/Schedule Comment:		

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 Kiln No. 2

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Kiln 2		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Equipment ID: 331.BF300			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 318 feet	7. Exit Diameter: 10.1 feet	
8. Exit Temperature: 270 °F	9. Actual Volumetric Flow Rate: 315,000 acfm	10. Water Vapor: 12 %	
11. Maximum Dry Standard Flow Rate: 200,000 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No.2

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 11

1. Segment Description (Process/Fuel Type): Industrial Processes >> Mineral Products >> Cement Manufacturing (Dry Process) >> Raw Material Grinding and Drying – Raw Mill		
2. Source Classification Code (SCC): 3-05-006-13		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 335	5. Maximum Annual Rate: 2,107,875	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: The raw mill grinding rate is 337 tons per hour and the daily rate is 7500 tons in any 24-hr period (24-hr average). Process and production rates are further limited to 2,107,875 tons in any consecutive 12-mo period (7500 tons/day).		

Segment Description and Rate: Segment 2 of 11

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Preheater Kiln		
2. Source Classification Code (SCC): 3-05-006-22		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 258	5. Maximum Annual Rate: 2,107,875	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: The preheater feed will be 258 tons per hour of dry preheater feed and dry flyash, and 5775 tons in a 24-hr period (24-hr average). Process and production rates are further limited to 2,107,875 tons of dry preheater feed and dry flyash in any consecutive 12-mo period (5775 tons/day).		

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No.2

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 3 of 11

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Clinker Cooler		
2. Source Classification Code (SCC): 3-05-006-14		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 156	5. Maximum Annual Rate: 1,277,500	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: The clinker production will be 156 tons of clinker per hour, and 3500 tons in any 24-hr period (24-hr average). Process and production rates are further limited to 1,277,500 tons of clinker in any consecutive 12-mo period (3500tons/day).		

Segment Description and Rate: Segment 4 of 11

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Bituminous Coal; Cement Kiln Dryer (Bituminous Coal)		
2. Source Classification Code (SCC): 3-90-002-01		3. SCC Units: Tons Burned
4. Maximum Hourly Rate: 20.0	5. Maximum Annual Rate: 175,200	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: No Limit	8. Maximum % Ash: No Limit	9. Million Btu per SCC Unit: 26
10. Segment Comment: Annual rate is based on the hourly rate and 8,760 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No.2

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 5 of 11

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Distillate Oil; Cement Kiln/Dryer – No. 2 Fuel Oil		
2. Source Classification Code (SCC): 3-90-005-02		3. SCC Units: Thousand Gallons Burned
4. Maximum Hourly Rate: 3.60	5. Maximum Annual Rate: 31,550	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: No Limit	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: 140
10. Segment Comment: No. 2 fuel oil is used primary for startup/preheating of the Cement Kiln.		

Segment Description and Rate: Segment 6 of 11

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; On-spec Oil; Cement Kiln/Dryer – On-spec Used Oil		
2. Source Classification Code (SCC): 3-90-004-02		3. SCC Units: Thousand Gallons Burned
4. Maximum Hourly Rate: 3.60	5. Maximum Annual Rate: 31,550	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: No Limit	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: 140
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No.2

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 7 of 11

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Coke; General: Coke		
2. Source Classification Code (SCC): 3-90-008-99		3. SCC Units: Tons Burned
4. Maximum Hourly Rate: 20.0	5. Maximum Annual Rate: 175,200	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: No Limit	8. Typical % Ash: 0.5-5.0	9. Million Btu per SCC Unit: 26.6
10. Segment Comment: Heat value based on AP-42, Appendix A. Annually rate based on hourly rate and 8,760 hr/yr.		

Segment Description and Rate: Segment 8 of 11

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Liquefied Petroleum Gas; Propane		
2. Source Classification Code (SCC): 3-90-010-99		3. SCC Units: Thousand Gallons Burned
4. Maximum Hourly Rate: 5.2	5. Maximum Annual Rate: 45,550	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 90.5
10. Segment Comment: Heat value based on AP-42, Appendix A. Annually rate based on hourly rate and 8,760 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No.2

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 9 of 11

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Solid Waste; Whole Tires (TDF)		
2. Source Classification Code (SCC): 3-90-012-99		3. SCC Units: Tons Burned
4. Maximum Hourly Rate: 5.20	5. Maximum Annual Rate: 45,675	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 28
10. Segment Comment: Annual rate based on hourly rate and 8,760 hr/yr. Heat input from TDF is limited to 30% of the pyroprocessing heat input.		

Segment Description and Rate: Segment 10 of 11

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Solid Waste; Raw Materials		
2. Source Classification Code (SCC): 3-90-012-99		3. SCC Units: Tons Burned
4. Maximum Hourly Rate: To be Determined	5. Maximum Annual Rate: To be Determined	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: No Limit	8. Maximum % Ash: No Limit	9. Million Btu per SCC Unit: To be Determined
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No.2

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 11 of 11

1. Segment Description (Process/Fuel Type): Industrial Processes >> In-Process Fuel Use >> Natural Gas >> Cement Kiln/Dryer – Kiln and Precalciner		
2. Source Classification Code (SCC): 3-90-006-02		3. SCC Units: Million Cubic Feet Burned
4. Maximum Hourly Rate: 0.500	5. Maximum Annual Rate: 4380	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: Negligible	8. Maximum % Ash: Negligible	9. Million Btu per SCC Unit: 1,050
10. Segment Comment: The annual rate is based on the hourly rate and 8,760 hr/yr.		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [2] of [16]
 EU 044 – Kiln No. 2

POLLUTANT DETAIL INFORMATION

Page [1] of [7]
 Particulate Matter – PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: PM	2. Total Percent Efficiency of Control:
3. Potential Emissions: 28.8 lb/hour 117.6 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): tons/year	
6. Emission Factor: 0.112 lb/ton of kiln feed, 0.185 lb/ton of clinker Reference: Permit No. 0530021-018-AC and 3500 tpd Clinker	7. Emissions Method Code: 0
8. Calculation of Emissions: $258 \text{ ton/hr} \times 0.112 \text{ lb/ton} = 28.8 \text{ lb/hr}$ $2,107,875 \text{ ton/yr} \times 0.112 \text{ lb/ton}/2000 = 117.6 \text{ ton/yr}$ Calculations based on Preheater Feed	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No. 2

POLLUTANT DETAIL INFORMATION

Page [1] of [7]

Particulate Matter – PM

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: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.112 lb/ton of preheater feed	4. Equivalent Allowable Emissions: 28.1 lb/hour 117.6 tons/year
5. Method of Compliance: EPA Method 5	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC and proposed clinker production rate of 3500 tpd. Limit can be based either on Preheater Feed or Clinker Production.	

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No. 2

POLLUTANT DETAIL INFORMATION

Page [2] of [7]

Particulate Matter – PM₁₀

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: PM₁₀	2. Total Percent Efficiency of Control:
3. Potential Emissions: 25.0 lb/hour 102.3 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): tons/year	
6. Emission Factor: 0.097 lb/ton of kiln feed, 0.160 lb/ton of clinker Reference Permit No. 0530021-018-AC and 3500 tpd Clinker	7. Emissions Method Code: 0
8. Calculation of Emissions: 258 ton/hr x 0.097 lb/ton = 25.0 lb/hr 2,107,875 ton/yr x 0.097 lb/ton/2000 = 102.3 ton/yr Calculations based on Preheater Feed	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No. 2

POLLUTANT DETAIL INFORMATION

Page [2] of [7]

Particulate Matter – PM₁₀

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: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.097 lb/ton of preheater feed	4. Equivalent Allowable Emissions: 25.0 lb/hour 102.3 tons/year
5. Method of Compliance: EPA Method 5, with all PM assumed to be PM10	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC and proposed clinker production rate of 3500 tpd. Limit can be based either on Preheater Feed or Clinker Production.	

EMISSIONS UNIT INFORMATION

Section [2] of [16]
 EU 044 – Kiln No. 2

POLLUTANT DETAIL INFORMATION

Page [3] of [7]
 Sulfur Dioxide – SO₂

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: SO₂		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 28.8 lb/hour 117.6 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.185 lb/ton of clinker Reference: Permit No. 0530021-018-AC and 3500 tpd Clinker		7. Emissions Method Code: 0	
8. Calculation of Emissions: 156 ton/hr x 0.185 lb/ton = 28.8 lb/hr 1,277,500 ton/yr x 0.185 lb/ton/2000 = 117.6 ton/yr Calculations based on Clinker Production			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No. 1

POLLUTANT DETAIL INFORMATION

Page [3] of [7]

Sulfur Dioxide – SO₂

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: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.185 lb/ton of clinker	4. Equivalent Allowable Emissions: 28.8 lb/hour 117.6 tons/year
5. Method of Compliance: EPA Method 6 or 6C, and SO₂ CEMS.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC and proposed clinker production rate of 3500 tpd. Limit based on Clinker Production.	

EMISSION UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No. 2

POLLUTANT DETAIL INFORMATION

Page [4] of [7]

Nitrogen Oxides – NO_x

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: NO_x		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 243.8 lb/hour 996.7 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 1.56 lb/ton of clinker Reference: Permit No. 0530021-018-AC and 3500 tpd Clinker		7. Emissions Method Code: 0	
8. Calculation of Emissions: 156 ton/hr x 1.56 lb/ton = 243.8 lb/hr 1,277,500 ton/yr x 1.56 lb/ton/2000 = 996.7 ton/yr Calculations based on Clinker Production			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No. 2

POLLUTANT DETAIL INFORMATION

Page [4] of [7]

Nitrogen Oxides – NO_x

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: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 1.56 lb/ton of clinker	4. Equivalent Allowable Emissions: 243.8 lb/hour 996.7 tons/year
5. Method of Compliance: EPA Method 7 or 7E, and NO_x CEMS.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC and proposed clinker production rate of 3500 tpd. Limit based on Clinker Production.	

EMISSIONS UNIT INFORMATION
 Section [2] of [16]
 EU 044 – Kiln No. 2

POLLUTANT DETAIL INFORMATION
 Page [5] of [7]
 Carbon Monoxide – CO

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: CO	2. Total Percent Efficiency of Control:
3. Potential Emissions: 450 lb/hour 1,840 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): tons/year	
6. Emission Factor: 2.88 lb/ton of clinker Reference: Permit No. 0530021-018-AC and 3500 tpd Clinker	7. Emissions Method Code: 0
8. Calculation of Emissions: $156 \text{ ton/hr} \times 2.88 \text{ lb/ton} = 450 \text{ lb/hr}$ $1,277,500 \text{ ton/yr} \times 2.88 \text{ lb/ton}/2000 = 1,840 \text{ ton/yr}$ Calculations based on Clinker Production	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION
Section [2] of [16]
EU 044 – Kiln No. 2

POLLUTANT DETAIL INFORMATION
Page [5] of [7]
Carbon Monoxide – CO

**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: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.88 lb/ton of clinker	4. Equivalent Allowable Emissions: 450 lb/hour 1,840 tons/year
5. Method of Compliance: Method 10 or 10A, and CO CEMS.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC and proposed clinker production rate of 3500 tpd. Limit based on Clinker Production.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: VOC	2. Total Percent Efficiency of Control:
3. Potential Emissions: 15.0 lb/hour 61.3 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): tons/year	
6. Emission Factor: 0.096 lb/ton of clinker Reference: Permit No. 0530021-018-AC and 3500 tpd Clinker	7. Emissions Method Code: 0
8. Calculation of Emissions: 156 ton/hr x 0.096 lb/ton = 15.0 lb/hr 1,277,500 ton/yr x 0.096 lb/ton/2000 = 61.3 ton/yr Calculations based on Clinker Production	
9. Pollutant Potential/Estimated Fugitive Emissions Comment: VOC measured as THC and reported on a Propane basis	

EMISSIONS UNIT INFORMATION
Section [2] of [16]
EU 044 – Kiln No. 2

POLLUTANT DETAIL INFORMATION
Page [6] of [7]
Volatile Organic Compounds – VOC

**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: ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.096 lb/ton of clinker	4. Equivalent Allowable Emissions: 15.0 lb/hour 61.3 tons/year
5. Method of Compliance: Method 25 or 25A, and VOC CEMS VOC measured as THC and reported on a Propane basis	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC and proposed clinker production rate of 3500 tpd. Limit based on Clinker Production.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: H114	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour 0.061 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): tons/year	
6. Emission Factor: 41 µg/dscm Reference: NESHAP Subpart LLL	7. Emissions Method Code: 0
8. Calculation of Emissions:	
9. Pollutant Potential/Estimated Fugitive Emissions Comment: Annual limit of 122 lb/yr (0.061 tpy) based on BACT. This mass limit has been superseded by NESHAP, Subpart LLL (December 2006) which set a concentration limit of 41 ug/dscm at 7% oxygen	

EMISSIONS UNIT INFORMATION
Section [2] of [16]
EU 044 – Kiln No. 2

POLLUTANT DETAIL INFORMATION
Page [7] of [7]
Volatile Organic Compounds – VOC

**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: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 41 ug/dscm at 7% oxygen	4. Equivalent Allowable Emissions: lb/hour NA tons/year
5. Method of Compliance: EPA Method 29 (40CFR60, Appendix A)	
6. Allowable Emissions Comment (Description of Operating Method): Based on NESHAP, Subpart LLL. (December 2006).	

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No.2

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Opacity CEMS	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation __ of __

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No.2

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 8

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement: <input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other	
4. Monitor Information... Manufacturer: ABB Model Number: URAS 26 Serial Number: 04731961/5007	
5. Installation Date: NA	6. Performance Specification Test Date: 3/19/2010
7. Continuous Monitor Comment: required by BACT	

Continuous Monitoring System: Continuous Monitor 2 of 8

1. Parameter Code: EM	2. Pollutant(s): CO₂
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: ABB Model Number: URAS 26 Serial Number: 0240326926/100	
5. Installation Date: NA	6. Performance Specification Test Date: 3/19/2010
7. Continuous Monitor Comment: required by GHG Rule, 40 CFR 98	

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No.2

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 3 of 8

1. Parameter Code: EM	2. Pollutant(s): NO, NO₂, SO₂
3. CMS Requirement: <input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other	
4. Monitor Information... Manufacturer: ABB Model Number: Limas 11 UV Serial Number: 04731961/5001	
5. Installation Date: NA	6. Performance Specification Test Date: 3/19/2010
7. Continuous Monitor Comment: required by BACT	

Continuous Monitoring System: Continuous Monitor 4 of 8

1. Parameter Code: EM	2. Pollutant(s): THC
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: ABB Model Number: Multi-FID 14 Serial Number: 04731961/6010	
5. Installation Date: NA	6. Performance Specification Test Date: 3/19/2010
7. Continuous Monitor Comment: required by Subpart LLL	

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No.2

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 5 of 8

1. Parameter Code: FLOW	2. Pollutant(s):
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Durag Model Number: D-FL 200 G Serial Number: 432176	
5. Installation Date: NA	6. Performance Specification Test Date: 3/19/2010
7. Continuous Monitor Comment: required by GHG Rule, 40 CFR 98 and BACT	

Continuous Monitoring System: Continuous Monitor 6 of 8

1. Parameter Code: VE	2. Pollutant(s): Opacity
3. CMS Requirement:	<input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other
4. Monitor Information... Manufacturer: Durag Model Number: D-R 290 Serial Number: 432024	
5. Installation Date: NA	6. Performance Specification Test Date: 3/19/2010
7. Continuous Monitor Comment: required by BACT	

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 – Kiln No.2

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 7 of 8

1. Parameter Code: EM	2. Pollutant(s): H₂O
3. CMS Requirement: <input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other	
4. Monitor Information... Manufacturer: NEO Monitors Model Number: Laser Gas II Serial Number: 10075	
5. Installation Date: NA	6. Performance Specification Test Date: 3/19/2010
7. Continuous Monitor Comment: Required by LLL and BACT for moisture correction.	

Continuous Monitoring System: Continuous Monitor 8 of 8

1. Parameter Code: EM	2. Pollutant(s): O₂
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: ABB Model Number: URAS 26 Serial Number: 04731961/5007	
5. Installation Date: NA	6. Performance Specification Test Date: 3/19/2010
7. Continuous Monitor Comment: required by LLL for oxygen correction	

EMISSIONS UNIT INFORMATION

Section [2] of [16]

EU 044 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: <u>Previously Submitted</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 _____
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: <u>Previously Submitted</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 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"/> <u>NA</u>
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 [16]

EU 044 Kiln No. 2

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 (Rules 62-212.400(4)(d) and 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

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

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [3] of [16]

EU 045 Filter Dust Bin

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [3] of [16]

EU 045 Filter Dust Bin

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 have 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:

Two Emission Points:

Filter Dust Bin and Filter Dust Bin Loadout Spout

3. Emissions Unit Identification Number: **045**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
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8. Federal Program Applicability: (Check all that apply)

- Acid Rain Unit
- CAIR Unit

9. Package Unit:

Manufacturer:

Model Number:

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [3] of [16]

EU 045 Filter Dust Bin

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:

**Baghouse (2) – High Temperature
[331.BF640 and 331.LS609]**

2. Control Device or Method Code: **016**

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [3] of [16]

EU 045 Filter Dust Bin

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate																																	
2. Maximum Production Rate:																																	
3. Maximum Heat Input Rate: million Btu/hr																																	
4. Maximum Incineration Rate: pounds/hr tons/day																																	
5. Requested Maximum Operating Schedule:																																	
				hours/day	days/week																												
				weeks/year	hours/year																												
6. Operating Capacity/Schedule Comment:																																	
<table border="1"> <thead> <tr> <th rowspan="2">Baghouse</th> <th colspan="2">Maximum Throughput Rate</th> <th colspan="4">Operating Schedule</th> </tr> <tr> <th>(tph)</th> <th>(tpy)</th> <th>(hr/day)</th> <th>(day/wk)</th> <th>(wk/yr)</th> <th>(hr/yr)</th> </tr> </thead> <tbody> <tr> <td>Bin -331.BF640</td> <td>37.5</td> <td>328,500</td> <td>24</td> <td>7</td> <td>52</td> <td>8760</td> </tr> <tr> <td>Spout-331.LS609</td> <td>80</td> <td>80,000</td> <td>24</td> <td>7</td> <td>52</td> <td>1000</td> </tr> </tbody> </table>							Baghouse	Maximum Throughput Rate		Operating Schedule				(tph)	(tpy)	(hr/day)	(day/wk)	(wk/yr)	(hr/yr)	Bin -331.BF640	37.5	328,500	24	7	52	8760	Spout-331.LS609	80	80,000	24	7	52	1000
Baghouse	Maximum Throughput Rate		Operating Schedule																														
	(tph)	(tpy)	(hr/day)	(day/wk)	(wk/yr)	(hr/yr)																											
Bin -331.BF640	37.5	328,500	24	7	52	8760																											
Spout-331.LS609	80	80,000	24	7	52	1000																											

EMISSIONS UNIT INFORMATION

Section [3] of [16]

EU 045 Filter Dust Bin

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Filter Dust Bin and Filter Dust Bin Loadout Spout		2. Emission Point Type Code: 3																																												
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 331.BF640 Baghouse ID 331.LS609																																														
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:																																														
5. Discharge Type Code:	6. Stack Height: feet	7. Exit Diameter: feet																																												
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %																																												
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet																																												
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)																																												
15. Emission Point Comment:																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width:15%;">Baghouse</th> <th colspan="7" style="text-align: center;">Parameter</th> </tr> <tr> <th style="width:10%;">Discharge Code</th> <th style="width:10%;">Height (ft)</th> <th style="width:10%;">Diameter (ft)</th> <th style="width:10%;">Temp (°F)</th> <th colspan="2" style="text-align: center;">Flow</th> <th style="width:10%;">Moist (%)</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th></th> <th style="text-align: center;">(acfm)</th> <th style="text-align: center;">(dscfm)</th> <th></th> </tr> </thead> <tbody> <tr> <td>331.BF640</td> <td style="text-align: center;">H</td> <td style="text-align: center;">90</td> <td style="text-align: center;">1.00</td> <td style="text-align: center;">392</td> <td style="text-align: center;">3,400</td> <td style="text-align: center;">2065</td> <td style="text-align: center;">2.0</td> </tr> <tr> <td>331.LS609</td> <td style="text-align: center;">H</td> <td style="text-align: center;">25</td> <td style="text-align: center;">0.38</td> <td style="text-align: center;">375</td> <td style="text-align: center;">8,000</td> <td style="text-align: center;">4958</td> <td style="text-align: center;">2.0</td> </tr> </tbody> </table>								Baghouse	Parameter							Discharge Code	Height (ft)	Diameter (ft)	Temp (°F)	Flow		Moist (%)						(acfm)	(dscfm)		331.BF640	H	90	1.00	392	3,400	2065	2.0	331.LS609	H	25	0.38	375	8,000	4958	2.0
Baghouse	Parameter																																													
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EMISSIONS UNIT INFORMATION

Section [3] of [16]

EU 045 Filter Dust Bin

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Raw Material Transfer		
2. Source Classification Code (SCC): 3-05-006-12		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 37.5	5. Maximum Annual Rate: 328,500	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Applies to the Filter Dust Bin. The annual rate is based on the hourly rate and 8,760 hr/yr.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Raw Material Transfer		
2. Source Classification Code (SCC): 3-05-006-12		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 80	5. Maximum Annual Rate: 80,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Applies to the Filter Dust Bin Loadout Spout. The annual rate is based on the hourly rate and 1000 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [3] of [16]

EU 045 Filter Dust Bin

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
PM	016		EL
PM ₁₀	016		EL

EMISSIONS UNIT INFORMATION

Section [3] of [16]
 EU 045 Filter Dust Bin

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.60 lb/hour 2.63 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.01 gr/dscf Reference: Permit No. 0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment: Represents both baghouses combined.			

EMISSIONS UNIT INFORMATION

Section [3] of [16]
 EU 045 Filter Dust Bin

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter - PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/dscf (each baghouse)	4. Equivalent Allowable Emissions: 0.60 lb/hour 2.63 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT. Emissions represent both baghouse combined.	

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 [3] of [16]
 EU 045 Filter Dust Bin

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM₁₀

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.42 lb/hour 1.84 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.007 gr/dscf Reference: Permit No. 0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment: Represents both baghouses combined.			

EMISSIONS UNIT INFORMATION

Section [3] of [16]
EU 045 Filter Dust Bin

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
Particulate Matter – PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/dscf (each baghouse)	4. Equivalent Allowable Emissions: 0.42 lb/hour 1.84 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT. Emissions represent both baghouse combined.	

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 [3] of [16]

EU 045 Filter Dust Bin

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual, EPA Method 9	
5. Visible Emissions Comment: Based on Permit No. 0530021-018-AC, BACT and Rule 62-297.620(4), F.A.C.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly, 1-minute EPA Method 22	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(a)(4)(i).	

EMISSIONS UNIT INFORMATION

Section [3] of [16]

EU 045 Filter Dust Bin

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [3] of [16]

EU 045 Filter Dust Bin

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>6. Compliance Demonstration Reports/Records:</p> <p><input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Previously Submitted, Date: <u>1/6/2010</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Not Applicable</p> <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>
<p>7. Other Information Required by Rule or Statute:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [3] of [16]

EU 045 Filter Dust Bin

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

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

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [4] of [16]

EU 046 Blend Silo

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [4] of [16]

EU 046 Blend Silo

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:

Single Emission Point:
Blend Silo Input

3. Emissions Unit Identification Number: **046**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
--	--	------------------------------------	--

8. Federal Program Applicability: (Check all that apply)

- Acid Rain Unit
- CAIR Unit

9. Package Unit:
Manufacturer:

Model Number:

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [4] of [16]

EU 046 Blend Silo

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:
Baghouse (1) – Medium Temperature
[Baghouse 341.BF400]

2. Control Device or Method Code: **017**

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [4] of [16]

EU 046 Blend Silo

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 300 ton/hr dry basis		
2. Maximum Production Rate:		
3. Maximum Heat Input Rate: million Btu/hr		
4. Maximum Incineration Rate: pounds/hr tons/day		
5. Requested Maximum Operating Schedule:		
24 hours/day	7 days/week	
52 weeks/year	8,760 hours/year	
6. Operating Capacity/Schedule Comment:		
Annual throughput based on 8760 hr/yr is 2,628,000 tpy		

EMISSIONS UNIT INFORMATION

Section [4] of [16]

EU 046 Blend Silo

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Blend Silo		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 341.BF400			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 220 feet	7. Exit Diameter: 1.53 feet	
8. Exit Temperature: 188 °F	9. Actual Volumetric Flow Rate: 8,100 acfm	10. Water Vapor: 2 %	
11. Maximum Dry Standard Flow Rate: 6,468 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [4] of [16]

EU 046 Blend Silo

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Raw Material Transfer		
2. Source Classification Code (SCC): 3-05-006-12	3. SCC Units: Tons Handled	
4. Maximum Hourly Rate: 300	5. Maximum Annual Rate: 2,628,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Applies to the Blend Silo Input (Raw Meal Transport). Annual rate is based on the hourly rate and 8,760 hr/yr.		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [4] of [16]

EU 046 Blend Silo

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
PM	017		EL
PM ₁₀	017		EL

EMISSIONS UNIT INFORMATION

Section [4] of [16]

EU 046 Blend Silo

POLLUTANT DETAIL INFORMATION

Page [1] of [2]

Particulate Matter – PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/dscf	4. Equivalent Allowable Emissions: 0.55 lb/hour 2.41 tons/year
5. Method of Compliance: Annual, EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT	

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 [4] of [16]
 EU 046 Blend Silo

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM₁₀

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.39 lb/hour 1.71 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.007 gr/dscf Reference: Permit No. 0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [4] of [16]
EU 046 Blend Silo

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
Particulate Matter – PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/dscf	4. Equivalent Allowable Emissions: 0.39 lb/hour 1.71 tons/year
5. Method of Compliance: Annual, EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT	

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 [4] of [16]

EU 046 Blend Silo

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual EPA Method 9	
5. Visible Emissions Comment: Based on Permit No. 0530021-018-AC, BACT and Rule 62-297.620(4), F.A.C.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly, 1-minute EPA Method 22	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(a)(4)(i).	

EMISSIONS UNIT INFORMATION

Section [4] of [16]

EU 046 Blend Silo

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [4] of [16]

EU 046 Blend Silo

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>6. Compliance Demonstration Reports/Records:</p> <p><input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Previously Submitted, Date: <u>2/5/2010</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Not Applicable</p> <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>
<p>7. Other Information Required by Rule or Statute:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [4] of [16]

EU 046 Blend Silo

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

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

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [5] of [16]

EU 047 Kiln Feed Transport

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [5] of [16]

EU 047 Kiln Feed Transport

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:
Three Emission Points:
Blend Silo Discharge, Kiln Feed Bin, Kiln Feed Transport

3. Emissions Unit Identification Number: **047**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
--	--	------------------------------------	--

8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

9. Package Unit:
 Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [5] of [16]

EU 047 Kiln Feed Transport

Emissions Unit Control Equipment/Method: Control 1 of 1

- | |
|---|
| 1. Control Equipment/Method Description:
Baghouse (3) – Medium Temperature
[Baghouses 341.BF410, 351.BF410 and 351.BF420] |
| 2. Control Device or Method Code: 017 |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

EMISSIONS UNIT INFORMATION

Section [5] of [16]

EU 047 Kiln Feed Transport

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 258 tph, all baghouses
2. Maximum Production Rate:
3. Maximum Heat Input Rate: million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: <div style="display: flex; justify-content: space-between; margin-left: 100px;"> 24 hours/day 5 days/week </div> <div style="display: flex; justify-content: space-between; margin-left: 100px;"> 52 weeks/year 8,760 hours/year </div>
6. Operating Capacity/Schedule Comment: <p style="text-align: center;">Annual throughput based on 365 day/yr and 5775 tpd is 2,107,875 tpy</p>

EMISSIONS UNIT INFORMATION

Section [5] of [16]

EU 047 Kiln Feed Transport

C. EMISSION POINT (STACK/VENT) INFORMATION
 (Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Blend Silo Discharge, Kiln Feed Bin and Kiln Feed Transport		2. Emission Point Type Code: 3																																														
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 341.BF410 – Silo Discharge Baghouse ID 351.BF410 – Kiln Feed Bin Baghouse ID 351.BF420 – Kiln Feed Transport																																																
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:																																																
5. Discharge Type Code:	6. Stack Height: feet	7. Exit Diameter: feet																																														
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %																																														
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet																																														
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)																																														
15. Emission Point Comment:																																																
	<table border="1"> <thead> <tr> <th rowspan="2">Baghouse</th> <th colspan="7">Parameter</th> </tr> <tr> <th rowspan="2">Discharge Code</th> <th rowspan="2">Height (ft)</th> <th rowspan="2">Diameter (ft)</th> <th rowspan="2">Temp (°F)</th> <th colspan="2">Flow</th> <th rowspan="2">Moist (%)</th> </tr> <tr> <th>(acfm)</th> <th>(dscfm)</th> </tr> </thead> <tbody> <tr> <td>341.BF410</td> <td>H</td> <td>28</td> <td>0.69</td> <td>188</td> <td>900</td> <td>719</td> <td>2.0</td> </tr> <tr> <td>351.BF410</td> <td>H</td> <td>91</td> <td>1.37</td> <td>188</td> <td>7,100</td> <td>5669</td> <td>2.0</td> </tr> <tr> <td>351.BF420</td> <td>H</td> <td>280</td> <td>1.70</td> <td>188</td> <td>11,700</td> <td>9343</td> <td>2.0</td> </tr> </tbody> </table>							Baghouse	Parameter							Discharge Code	Height (ft)	Diameter (ft)	Temp (°F)	Flow		Moist (%)	(acfm)	(dscfm)	341.BF410	H	28	0.69	188	900	719	2.0	351.BF410	H	91	1.37	188	7,100	5669	2.0	351.BF420	H	280	1.70	188	11,700	9343	2.0
Baghouse	Parameter																																															
	Discharge Code	Height (ft)	Diameter (ft)	Temp (°F)	Flow		Moist (%)																																									
(acfm)					(dscfm)																																											
341.BF410	H	28	0.69	188	900	719	2.0																																									
351.BF410	H	91	1.37	188	7,100	5669	2.0																																									
351.BF420	H	280	1.70	188	11,700	9343	2.0																																									

EMISSIONS UNIT INFORMATION

Section [5] of [16]

EU 047 Kiln Feed Transport

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Raw Material Transfer		
2. Source Classification Code (SCC): 3-05-006-12		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 258	5. Maximum Annual Rate: 2,107,875	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Annual rate is based on 5775 tpd and 365 day/yr. Rate applies to all baghouses.		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [5] of [16]

EU 047 Kiln Feed Transport

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
PM	017		EL
PM₁₀	017		EL

EMISSIONS UNIT INFORMATION

Section [5] of [16]
 EU 047 Kiln Feed Transport

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter – PM

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 2.64 lb/hour 11.6 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.01 gr/dscf (each baghouse) Reference: Permit No. 0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment: Emissions represent all 3 baghouses combined.			

EMISSIONS UNIT INFORMATION

Section [5] of [16]
 EU 047 Kiln Feed Transport

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter – PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/dscf (each baghouse)	4. Equivalent Allowable Emissions: 2.64 lb/hour 11.6 tons/year
5. Method of Compliance: Annual, EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT. Emissions represent all 3 baghouses combined.	

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 [5] of [16]
 EU 047 Kiln Feed Transport

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/dscf (each baghouse)	4. Equivalent Allowable Emissions: 1.84 lb/hour 8.1 tons/year
5. Method of Compliance: Annual, EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT. Emissions represent all 3 baghouses combined.	

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 [5] of [16]

EU 047 Kiln Feed Transport

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual EPA Method 9	
5. Visible Emissions Comment: Based on Permit No. 0530021-018-AC, BACT and Rule 62-297.620(4), F.A.C.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly, 1-minute EPA Method 22	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(a)(4)(i).	

EMISSIONS UNIT INFORMATION

Section [5] of [16]

EU 047 Kiln Feed Transport

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [5] of [16]

EU 047 Kiln Feed Transport

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: <u>Previously Submitted</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 type="checkbox"/> Previously Submitted, Date _____
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: <u>Previously Submitted</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: <u>NA</u>
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: <u>NA</u>
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>1/6/2010</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input 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 [5] of [16]

EU 047 Kiln Feed Transport

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

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

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [6] of [16]

EU 048 Clinker Transport

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [6] of [16]

EU 048 Clinker Transport

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)			
<input checked="" type="checkbox"/> 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).			
<input type="checkbox"/> 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.			
<input type="checkbox"/> 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: Single Emission Point: Clinker Transport			
3. Emissions Unit Identification Number: 048			
4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
8. Federal Program Applicability: (Check all that apply)			
<input type="checkbox"/> Acid Rain Unit			
<input type="checkbox"/> CAIR Unit			
9. Package Unit: Manufacturer:		Model Number:	
10. Generator Nameplate Rating: MW			
11. Emissions Unit Comment:			

EMISSIONS UNIT INFORMATION

Section [6] of [16]

EU 048 Clinker Transport

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:
Baghouse(1) – High Temperature
[Baghouse 471.BF110]

2. Control Device or Method Code: **016**

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [6] of [16]

EU 048 Clinker Transport

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Clinker Transport		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 471.BF110			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 15 feet	7. Exit Diameter: 1.29 feet	
8. Exit Temperature: 392 °F	9. Actual Volumetric Flow Rate: 4,200 acfm	10. Water Vapor: 2 %	
11. Maximum Dry Standard Flow Rate: 2,551 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [6] of [16]

EU 048 Clinker Transport

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Clinker Transfer		
2. Source Classification Code (SCC): 3-05-006-16		3. SCC Units: Tons Clinker Produced
4. Maximum Hourly Rate: 156	5. Maximum Annual Rate: 1,277,500	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Annual rate is based on the daily rate of 3500 tpd and 365 day/yr.		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [6] of [16]
 EU 048 Clinker Transport

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter – PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.22 lb/hour 0.96 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.01 gr/dscf Reference: Permit No. 0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [6] of [16]
EU 048 Clinker Transport

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter – PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/dscf	4. Equivalent Allowable Emissions: 0.22 lb/hour 0.96 tons/year
5. Method of Compliance: Annual, EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT	

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 [6] of [16]
 EU 048 Clinker Transport

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM₁₀

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
 (Optional for unregulated emissions units.)**

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.15 lb/hour 0.67 tons/year		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: 0.007 gr/dscf Reference: Permit No. 0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [6] of [16]
 EU 048 Clinker Transport

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/dscf	4. Equivalent Allowable Emissions: 0.15 lb/hour 0.67 tons/year
5. Method of Compliance: Annual, EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT.	

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 [6] of [16]

EU 048 Clinker Transport

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual, EPA Method 9	
5. Visible Emissions Comment: Based on Permit No. 0530021-018-AC, BACT and Rule 62-297.620(4), F.A.C.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly, 1-minute EPA Method 22	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(a)(4)(i).	

EMISSIONS UNIT INFORMATION

Section [6] of [16]

EU 048 Clinker Transport

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [6] of [16]

EU 048 Clinker Transport

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: <u>Previously Submitted</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 type="checkbox"/> Previously Submitted, Date _____
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: <u>Previously Submitted</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: <u>NA</u>
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: <u>NA</u>
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>1/6/2010</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input 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 [6] of [16]

EU 048 Clinker Transport

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

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

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [7] of [16]

EU 050 Clinker Storage Silo

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [7] of [16]

EU 050 Clinker Storage Silo

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:
Three Emission Points:
Clinker Silo Discharge 1 and 2, and Clinker Storage Silo

3. Emissions Unit Identification Number: **050**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
--	--	------------------------------------	--

8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

9. Package Unit:
 Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [7] of [16]

EU 050 Clinker Storage Silo

Emissions Unit Control Equipment/Method: Control 1 of 1

- | |
|---|
| 1. Control Equipment/Method Description:
Baghouse (3) – High Temperature
[Baghouses 471.BF155, 481.BF165 and 471.BF120] |
| 2. Control Device or Method Code: 016 |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

EMISSIONS UNIT INFORMATION

Section [7] of [16]

EU 050 Clinker Storage Silo Silo

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Clinker Storage & Discharge		2. Emission Point Type Code: 3																																														
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Equipment ID 481.BF155 – Dischg 1 Equipment ID 481.BF165 – Dischg 2 Equipment ID 471.BF120 – Clk Silo																																																
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:																																																
5. Discharge Type Code:	6. Stack Height: feet	7. Exit Diameter: feet																																														
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %																																														
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet																																														
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)																																														
15. Emission Point Comment:																																																
<table border="1" style="width:100%; border-collapse: collapse; margin: 10px auto;"> <thead> <tr> <th rowspan="3" style="width:15%;">Baghouse</th> <th colspan="7" style="text-align: center;">Parameter</th> </tr> <tr> <th rowspan="2" style="width:10%;">Discharge Code</th> <th rowspan="2" style="width:10%;">Height (ft)</th> <th rowspan="2" style="width:10%;">Diameter (ft)</th> <th rowspan="2" style="width:10%;">Temp (°F)</th> <th colspan="2" style="text-align: center;">Flow</th> <th rowspan="2" style="width:10%;">Moist (%)</th> </tr> <tr> <th style="width:10%;">(acfm)</th> <th style="width:10%;">(dscfm)</th> </tr> </thead> <tbody> <tr> <td>481.BF155</td> <td>H</td> <td>16</td> <td>1.08</td> <td>216</td> <td>2,871</td> <td>2198</td> <td>2.0</td> </tr> <tr> <td>481.BF165</td> <td>H</td> <td>16</td> <td>1.08</td> <td>216</td> <td>2,871</td> <td>2198</td> <td>2.0</td> </tr> <tr> <td>471.BF120</td> <td>H</td> <td>105</td> <td>1.70</td> <td>125</td> <td>13,200</td> <td>11676</td> <td>2.0</td> </tr> </tbody> </table>								Baghouse	Parameter							Discharge Code	Height (ft)	Diameter (ft)	Temp (°F)	Flow		Moist (%)	(acfm)	(dscfm)	481.BF155	H	16	1.08	216	2,871	2198	2.0	481.BF165	H	16	1.08	216	2,871	2198	2.0	471.BF120	H	105	1.70	125	13,200	11676	2.0
Baghouse	Parameter																																															
	Discharge Code	Height (ft)	Diameter (ft)	Temp (°F)	Flow		Moist (%)																																									
					(acfm)	(dscfm)																																										
481.BF155	H	16	1.08	216	2,871	2198	2.0																																									
481.BF165	H	16	1.08	216	2,871	2198	2.0																																									
471.BF120	H	105	1.70	125	13,200	11676	2.0																																									

EMISSIONS UNIT INFORMATION

Section [7] of [16]

EU 050 Clinker Storage Silo

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Clinker Piles (Storage Silos)		
2. Source Classification Code (SCC): 3-05-006-15	3. SCC Units: Tons Cement Produced	
4. Maximum Hourly Rate: 215	5. Maximum Annual Rate: 1,612,500	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1
10. Segment Comment: Applies to Clinker Silo Discharge 1 and 2 (each). The annual rate is based on the hourly rate and 7500 hr/yr.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Clinker Piles (Storage Silos)		
2. Source Classification Code (SCC): 3-05-006-15	3. SCC Units: Tons Cement Produced	
4. Maximum Hourly Rate: 156	5. Maximum Annual Rate: 1,277,500	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Applies to Clinker Storage Silo. The annual rate is based on the daily rate (3500 tpd) and 365 day/yr.		

EMISSIONS UNIT INFORMATION

Section [[7] of [16]
 EU 050 Clinker Storage Silo

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.99 lb/hour 4.34 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.01 gr/dscf (each baghouse) Reference: Permit No. 0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment: Represents total emissions for all 3 baghouses combined.			

EMISSIONS UNIT INFORMATION

Section [7] of [16]
 EU 050 Clinker Storage Silo

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter - PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/dscf (each baghouse)	4. Equivalent Allowable Emissions: 0.99 lb/hour 4.34 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT. Emissions represent all 3 baghouse combined.	

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 [7] of [16]
 EU 050 Clinker Storage Silo

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/dscf (each baghouse)	4. Equivalent Allowable Emissions: 0.70 lb/hour 3.1 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT. Emissions represent all 3 baghouse combined.	

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 [7] of [16]

EU 050 Clinker Storage Silo

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9 annually	
5.: Visible Emissions Comment Based on Permit No. 0530021-018-AC, BACT and Rule 62-297.620(4), F.A.C.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly, 1-minute EPA Method 22	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(a)(4)(i).	

EMISSIONS UNIT INFORMATION

Section [7] of [16]

EU 050 Clinker Storage Silo

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [7] of [16]

EU 050 Clinker Storage Silo

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 checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</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 type="checkbox"/> Previously Submitted, Date _____
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 checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</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: <u>NA</u>
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: <u>NA</u>
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>1/6/2010 – 1/7/2010</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input 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 [7] of [16]

EU 050 Clinker Storage Silo

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

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

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [8] of [16]

EU 051 Finish Mill Additives

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [8] of [16]

EU 051 Finish Mill Additives

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:

Single Emission Point:
Finish Mill Additives

3. Emissions Unit Identification Number: **051**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
--	--	------------------------------------	--

8. Federal Program Applicability: (Check all that apply)

- Acid Rain Unit
- CAIR Unit

9. Package Unit:

Manufacturer:

Model Number:

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [8] of [16]

EU 051 Finish Mill Additives

Emissions Unit Control Equipment/Method: Control 1 of 1

- | |
|---|
| 1. Control Equipment/Method Description:
Baghouse – Low Temperature
[511.BF650] |
| 2. Control Device or Method Code: 018 |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

EMISSIONS UNIT INFORMATION

Section [8] of [16]

EU 051 Finish Mill Additives

B. EMISSIONS UNIT CAPACITY INFORMATION
 (Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 127 tph
2. Maximum Production Rate:
3. Maximum Heat Input Rate: million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: <div style="display: flex; justify-content: space-between; margin-left: 100px;"> 24 hours/day 7 days/week </div> <div style="display: flex; justify-content: space-between; margin-left: 100px;"> 52 weeks/year 7500 hours/year </div>
6. Operating Capacity/Schedule Comment: <p style="text-align: center;">Annual rate based on 127 tph and 7500 hr/yr is 953,250 tpy</p>

EMISSIONS UNIT INFORMATION

Section [8] of [16]

EU 051 Finish Mill Additives

C. EMISSION POINT (STACK/VENT) INFORMATION
(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Finish Mill Additives		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 511.BF650			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 33 feet	7. Exit Diameter: 1.37 feet	
8. Exit Temperature: 104 °F	9. Actual Volumetric Flow Rate: 7,300 acfm	10. Water Vapor: 2 %	
11. Maximum Dry Standard Flow Rate: 6,697 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [8] of [16]

EU 045 Filter Dust Bin

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Finish Grinding Mill (Collecting Bin)		
2. Source Classification Code (SCC): 3-05-006-27		3. SCC Units: Tons Material Processed
4. Maximum Hourly Rate: 127	5. Maximum Annual Rate: 953,250	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: The annual rate is based on the hourly rate and 7500 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [8] of [16]

EU 051 Finish Mill Additives

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
PM	018		EL
PM ₁₀	018		EL

EMISSIONS UNIT INFORMATION

Section [8] of [16]
 EU 051 Finish Mill Additives

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.57 lb/hour 2.14 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.01 gr/dscf Reference: Permit No. 0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [8] of [16]
 EU 051 Finish Mill Additives

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter - PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/dscf (each baghouse)	4. Equivalent Allowable Emissions: 0.57 lb/hour 2.14 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT.	

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 [8] of [16]
 EU 051 Finish Mill Additives

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM₁₀

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM ₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.40 lb/hour 1.50 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.007 gr/dscf Reference: Permit No. 0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [8] of [16]
 EU 051 Finish Mill Additives

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM10

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/dscf (each baghouse)	4. Equivalent Allowable Emissions: 0.40 lb/hour 1.50 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT.	

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 [8] of [16]

EU 051 Finish Mill Additives

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual, EPA Method 9	
5. Visible Emissions Comment: Based on Permit No. 0530021-018-AC, BACT and Rule 62-297.620(4), F.A.C.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly, 1-minute EPA Method 22	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(a)(4)(i).	

EMISSIONS UNIT INFORMATION

Section [8] of [16]

EU 051 Finish Mill Additives

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [8] of [16]

EU 051 Finish Mill Additives

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: : <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>6. Compliance Demonstration Reports/Records:</p> <p><input type="checkbox"/> Attached, Document ID: _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Previously Submitted, Date: <u>1/7/2010</u></p> <p>Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Not Applicable</p> <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>
<p>7. Other Information Required by Rule or Statute:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [8] of [16]

EU 051 Finish Mill Additives

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

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

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [9] of [16]

EU 052 Finish Mill & Air Heater

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [9] of [16]

EU 052 Finish Mill & Air Heater

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:
Single Emission Point:
Finish Mill and Air Heater

3. Emissions Unit Identification Number: **052**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
--	--	------------------------------------	--

8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

9. Package Unit:
 Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [9] of [16]

EU 052 Finish Mill & Air Heater

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:
Baghouse – High Temperature
[531.BF500]

2. Control Device or Method Code: **016**

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [9] of [16]

EU 052 Finish Mill & Air Heater

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 240 tph
2. Maximum Production Rate:
3. Maximum Heat Input Rate: 45.0 million Btu/hr (hot gas generator unit)
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: <div style="display: flex; justify-content: space-between;"> <div>24 hours/day</div> <div>7 days/week</div> </div> <div style="display: flex; justify-content: space-between;"> <div>52 weeks/year</div> <div>7500* hours/year</div> </div>
6. Operating Capacity/Schedule Comment: <p>The maximum heat input rate represents the maximum rate of the hot gas generator unit.</p> <p>Annual capacity of Finish Mill is based on 240 tph and 7500 hr/yr is 1,800,000 tpy</p> <p>*Maximum operating time for the hot gas generator is 2,500 hr/yr.</p>

EMISSIONS UNIT INFORMATION

Section [9] of [16]

EU 052 Finish Mill & Air Heater

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Finish Mill		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 531.BF500			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 207 feet	7. Exit Diameter: 6.5 feet	
8. Exit Temperature: 246 °F	9. Actual Volumetric Flow Rate: 118,800 acfm	10. Water Vapor: 10 %	
11. Maximum Dry Standard Flow Rate: 80,000 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment: <p>Discharge parameters represent maximum expected gas discharge rate with the air heater operating or not operating. This flow represents about 40% of the total flow thru the Finish Mill Baghouse; the remaining fraction is returned to the Finish Mill.</p> <p>The discharge rate is reduced from the 100,000 dscfm estimated for Permit 0530021-018-AC; thus reducing potential PM/PM10 emissions.</p>			

EMISSIONS UNIT INFORMATION

Section [9] of [16]

EU 052 Finish Mill & Air Heater

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Finish Grinding Mill		
2. Source Classification Code (SCC): 3-05-006-29		3. SCC Units: Tons Material Processed
4. Maximum Hourly Rate: 240	5. Maximum Annual Rate: 1,800,000 tpy	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Annual rate is based on the hourly rate and 7500 hr/yr.		

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Distillate Oil; General		
2. Source Classification Code (SCC): 3-90-005-89		3. SCC Units: Thousand Gallons Burned
4. Maximum Hourly Rate: 0.30	5. Maximum Annual Rate: 750	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: No Limit	8. Maximum % Ash:	9. Million Btu per SCC Unit: 147.1
10. Segment Comment: Based on 45 MMBtu/hr and 2,500 hr/yr. Applies to the hot gas generator unit.		

EMISSIONS UNIT INFORMATION

Section [9] of [16]

EU 052 Finish Mill & Air Heater

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 3 of 3

1. Segment Description (Process/Fuel Type): Industrial Processes; In-Process Fuel Use; Liquefied Petroleum Gas (LPG); General		
2. Source Classification Code (SCC): 3-90-010-89		3. SCC Units: Thousand Gallons Burned
4. Maximum Hourly Rate: 0.490	5. Maximum Annual Rate: 1225	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 92.5
10. Segment Comment: Based on 45 MMBtu/hr and 2,500 hr/yr. Applies to the hot gas generator unit.		

EMISSIONS UNIT INFORMATION

Section [9] of [16]

EU 052 Finish Mill & Air Heater

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
PM	016		EL
PM ₁₀	016		EL
SO ₂			NS
NO _x			NS
VOC			NS
CO			NS

EMISSIONS UNIT INFORMATION

Section [9] of [16]
 EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [1] of [6]
 Particulate Matter – PM

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 6.86 lb/hour 25.7 tons/year		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: 0.029 lb PM/ton FM feed Reference: See below		7. Emissions Method Code: 0	
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: Emission Factor is based on the PM BACT concentration limit of Permit 0530021-018-AC (0.01 gr/dscf) and a stack gas flow rate estimated at 80,000 dscfm. This flow rate represents about 40% of the total air flow thru the FM baghouse; a reduction from the flow of 100,000 dscfm estimated for Permit 0530021-018-AC. The mass PM emission rate from this concentration limit and flow is divided by the FM feed rate (240 tph) to arrive at the Emission Factor.			
11. Potential, Fugitive, and Actual Emissions Comment: The annual PM emission rate is based on 7500 hr/yr.			

EMISSIONS UNIT INFORMATION

Section [9] of [16]
 EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [1] of [6]
 Particulate Matter – PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.029 lb/ton of FM feed	4. Equivalent Allowable Emissions: 6.86 lb/hour 25.7 tons/year
5. Method of Compliance: Annual, EPA Method 5	
6. Allowable Emissions Comment (Description of Operating Method): Emission Factor is based on the PM BACT concentration limit of Permit 0530021-018-AC (0.01 gr/dscf) and a stack gas flow rate estimated at 80,000 dscfm. This flow rate represents about 40% of the total air flow thru the FM baghouse; a reduction from the flow of 100,000 dscfm estimated for Permit 0530021-018-AC. The mass PM emission rate from this concentration limit and flow is divided by the FM feed rate (240 tph) to arrive at the Emission Factor	

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 [[9] of [16]
EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [2] of [6]
Particulate Matter – PM₁₀

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
(Optional for unregulated emissions units.)**

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 4.80 lb/hour 18.0 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.020 lb PM₁₀/ton of FM feed Reference: See below		7. Emissions Method Code: 0	
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: Emission Factor is based on the PM₁₀ BACT concentration limit of Permit 0530021-018-AC (0.007 gr/dscf) and a stack gas flow rate estimated at 80,000 dscfm. This flow rate represents about 40% of the total air flow thru the FM baghouse; a reduction from the flow of 100,000 dscfm estimated for Permit 0530021-018-AC. The mass PM emission rate from this concentration limit and flow is divided by the FM feed rate (240 tph) to arrive at the Emission Factor.			
11. Potential, Fugitive, and Actual Emissions Comment: The annual PM₁₀ emission rate is based on 7500 hr/yr.			

EMISSIONS UNIT INFORMATION

Section [9] of [16]
 EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [2] of [6]
 Particulate Matter – PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.020 lb/tom FM feed	4. Equivalent Allowable Emissions: 4.80 lb/hour 18.0 tons/year
5. Method of Compliance: Annual EPA Method 5 with all PM assumed to be PM10	
6. Allowable Emissions Comment (Description of Operating Method): Emission Factor is based on the PM10 BACT concentration limit of Permit 0530021-018-AC (0.007 gr/dscf) and a stack gas flow rate estimated at 80,000 dscfm. This flow rate represents about 40% of the total air flow thru the FM baghouse; a reduction from the flow of 100,000 dscfm estimated for Permit 0530021-018-AC. The mass PM emission rate from this concentration limit and flow is divided by the FM feed rate (240 tph) to arrive at the Emission Factor.	

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 [9] of [16]
 EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [3] of [6]
 Sulfur Dioxide – SO₂

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
 (Optional for unregulated emissions units.)**

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO₂		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 2.1 lb/hour 2.63 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 142 lb S/1,000 gal, S = 0.05% Reference: AP-42 Table 1.3-1, Permit No. 0530021-018-AC.		7. Emissions Method Code: 3	
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:			
11. Potential, Fugitive, and Actual Emissions Comment: Represents emissions from the hot gas generator unit at 2500 hr/yr.			

EMISSIONS UNIT INFORMATION

Section [9] of [16]
 EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [3] of [6]
 Sulfur Dioxide – SO₂

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.1 lb/hr	4. Equivalent Allowable Emissions: 2.1 lb/hour 2.63 tons/year
5. Method of Compliance: Fuel sulfur limitation of 0.05%	
6. Allowable Emissions Comment (Description of Operating Method): Based on AP-42 Table 1.3-1, Permit No. 0530021-018.	

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 [9] of [16]
 EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [4] of [6]
 Nitrogen Oxides – NO_x

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
 (Optional for unregulated emissions units.)**

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: NO_x		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 5.40 lb/hour 6.8 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 18 lb/1,000 gal Reference: AP-42 Table 1.5-1, Permit No. 0530021-018-AC.		7. Emissions Method Code: 3	
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: Potential emissions based on No. 2 fuel at 0.30 thousand gallons per hour and 2500 hr/yr.			
11. Potential, Fugitive, and Actual Emissions Comment: Represents emissions from the hot gas generator unit.			

EMISSIONS UNIT INFORMATION

Section [9] of [16]
 EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [4] of [6]
 Nitrogen Oxides – NO_x

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 5.40 lb/hr	4. Equivalent Allowable Emissions: 5.40 lb/hour 6.8 tons/year
5. Method of Compliance: NA	
6. Allowable Emissions Comment (Description of Operating Method): Based on AP-42 Table 1.5-1, Permit No. 0530021-018-AC and 2500 hr/yr.	

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 [9] of [16]
 EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [5] of [6]
 Carbon Monoxide – CO

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: CO		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 1.5 lb/hour 1.9 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 5.0 lb/1,000 gal Reference: AP-42 Table 1.5-1, Permit No. 0530021-018-AC.		7. Emissions Method Code: 3	
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: Potential emissions based on No. 2 fuel at 0.30 thousand gallons per hour and 2500 hr/yr.			
11. Potential, Fugitive, and Actual Emissions Comment: Represents emissions from the hot gas generator unit.			

EMISSIONS UNIT INFORMATION

Section [9] of [16]
 EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [5] of [6]
 Carbon Monoxide – CO

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 1.50 lb/hr	4. Equivalent Allowable Emissions: 1.50 lb/hour 1.9 tons/year
5. Method of Compliance: NA	
6. Allowable Emissions Comment (Description of Operating Method): Based on AP-42 Table 1.5-1, Permit No. 0530021-018-AC and 2500 hr/yr.	

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 [9] of [16]
 EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [6] of [6]
 Volatile Organic Compounds – VOC

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: VOC		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.3 lb/hour 0.4 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 1.0 lb/1,000 gal Reference: AP-42 Table 1.5-1		7. Emissions Method Code: 3	
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: Potential emissions based on No. 2 fuel at 0.30 thousand gallons per hour and 2500 hr/yr.			
11. Potential, Fugitive, and Actual Emissions Comment: Represents emissions from the hot gas generator unit.			

EMISSIONS UNIT INFORMATION

Section [9] of [16]
 EU 052 Finish Mill & Air Heater

POLLUTANT DETAIL INFORMATION

Page [6] of [6]
 Volatile Organic Compounds – VOC

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

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.30 lb/hr	4. Equivalent Allowable Emissions: 0.30 lb/hour 0.4 tons/year
5. Method of Compliance: NA	
6. Allowable Emissions Comment (Description of Operating Method): Based on AP-42 Table 1.5-1, Permit No. 0530021-018-AC and 2500 hr/yr.	

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 [9] of [16]

EU 052 Finish Mill & Air Heater

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual, EPA Method 9	
5. Visible Emissions Comment: Requested by Applicant	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly, 1-minute EPA Method 22	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(e).	

EMISSIONS UNIT INFORMATION

Section [9] of [16]

EU 052 Finish Mill & Air Heater

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number:	
Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number:	
Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [9] of [16]

EU 052 Finish Mill & Air Heater

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 checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</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 type="checkbox"/> Previously Submitted, Date _____
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 checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</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: <u>NA</u>
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: <u>NA</u>
6. Compliance Demonstration Reports/Records:
<input type="checkbox"/> Attached, Document ID: _____
Test Date(s)/Pollutant(s) Tested: _____
<input checked="" type="checkbox"/> Previously Submitted, Date: <u>6/30/10 and 10/8/2010 (PM)</u>
Test Date(s)/Pollutant(s) Tested: <u>PM, NOx, CO, VE</u>
<input type="checkbox"/> To be Submitted, Date (if known): _____
Test Date(s)/Pollutant(s) Tested: _____
<input 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 [9] of [16]

EU 052 Finish Mill & Air Heater

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

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

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [10] of [16]

EU 054 Finish Mill Bucket Elevator

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [10] of [16]

EU 054 Finish Mill Bucket Elevator

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:

Single Emission Point:

Finish Mill Bucket Elevator

3. Emissions Unit Identification Number: **054**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
--	--	------------------------------------	--

8. Federal Program Applicability: (Check all that apply)

- Acid Rain Unit
- CAIR Unit

9. Package Unit:

Manufacturer:

Model Number:

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [10] of [16]

EU 054 Finish Mill Bucket Elevator

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:
Baghouse-High Temperature
[Baghouse 531.BF020]

2. Control Device or Method Code: **016**

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [10] of [16]

EU 054 Finish Mill Bucket Elevator

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: FM Bucket Elevator		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 531.BF020			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 88 feet	7. Exit Diameter: 1.75 feet	
8. Exit Temperature: 392°F	9. Actual Volumetric Flow Rate: 10,900 acfm	10. Water Vapor: 2 %	
11. Maximum Dry Standard Flow Rate: 6,984 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [10] of [16]

EU 054 Finish Mill Bucket Elevator

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Finish Grinding Mill (Bucket Elevator)		
2. Source Classification Code (SCC): 3-05-006-29		3. SCC Units: Tons Materials Processed
4. Maximum Hourly Rate: 106	5. Maximum Annual Rate: 795,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Based on Permit No. 0530021-018-AC and annual rate based on the hourly rate and 7,500 hr/yr.		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION
 Section [10] of [16]
 EU 054 Finish Mill Bucket Elevator

POLLUTANT DETAIL INFORMATION
 Page [1] of [2]
 Particulate Matter-PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/acf	4. Equivalent Allowable Emissions: 0.60 lb/hour 2.3 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on the Permit No.0530021-018-AC, BACT	

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 [10] of [16]
 EU 054 Finish Mill Bucket Elevator

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter-PM₁₀

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.42 lb/hour 1.6 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.007 gr/acf Reference: Permit No.0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION
 Section [10] of [16]
 EU 054 Finish Mill Bucket Elevator

POLLUTANT DETAIL INFORMATION
 Page [2] of [2]
 Particulate Matter-PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/acf	4. Equivalent Allowable Emissions: 0.42 lb/hour 1.6 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on the permit 0530021-018-AC, BACT	

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 [10] of [16]

EU 054 Finish Mill Bucket Elevator

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9 annually	
Visible Emissions Comment: Based on Rule 62-297.620(4), F.A.C. and Permit 0530021-018-AC, BACT	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly, 1-minute EPA Method 22	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(a)(4)(i)	

EMISSIONS UNIT INFORMATION

Section [10] of [16]

EU 054 Finish Mill Bucket Elevator

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor _of _

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [10] of [16]

EU 054 Finish Mill Bucket Elevator

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 checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</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 type="checkbox"/> Previously Submitted, Date _____
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 checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</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: <u>NA</u>
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: <u>NA</u>
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>1/7/2010</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input 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 [10] of [16]

EU 054 Finish Mill Bucket Elevator

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 (Rules 62-212.400(4)(d) and 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

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

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [11] of [16]

EU 057 Finish Mill Cement Transport

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [11] of [16]

EU 057 Finish Mill Cement Transport

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:
Two Emission Points:
Finish Mill Cement and Rejects Transport

3. Emissions Unit Identification Number: **057**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
--	--	------------------------------------	--

8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

9. Package Unit:
 Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

12. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [11] of [16]

EU 057 Finish Mill Cement Transport

Emissions Unit Control Equipment/Method: Control 1 of 1

- | |
|--|
| 1. Control Equipment/Method Description:
Baghouses(2)-High Temperature
[Baghouses 531.BF400 and 531.BF290] |
| 2. Control Device or Method Code: 016 |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

EMISSIONS UNIT INFORMATION

Section [11] of [16]

EU 057 Finish Mill Cement Transport

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:						
2. Maximum Production Rate:						
3. Maximum Heat Input Rate: million Btu/hr						
4. Maximum Incineration Rate: pounds/hr tons/day						
5. Requested Maximum Operating Schedule:						
24 hours/day				7 days/week		
52 weeks/year				7500 hours/year		
6. Operating Capacity/Schedule Comment:						
Baghouse	Maximum Throughput Rate		Operating Schedule			
	(tph)	(tpy)	(hr/day)	(day/wk)	(wk/yr)	(hr/yr)
	Cement Trans-531.BF400	240	1,800,000	24	7	52
Reject Trans -531.BF290	106	795,000	24	7	52	7500

EMISSIONS UNIT INFORMATION

Section [11] of [16]

EU 057 Finish Mill Cement Transport

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: FM Cement Transport		2. Emission Point Type Code: 3																																		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 531.BF400 - Cement Baghouse ID 531.BF290 - Rejects																																				
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:																																				
5. Discharge Type Code:	6. Stack Height: feet	7. Exit Diameter: feet																																		
8. Exit Temperature: F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %																																		
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet																																		
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)																																		
15. Emission Point Comment:																																				
<table border="1" style="width:100%; border-collapse: collapse; margin: 10px auto;"> <thead> <tr> <th rowspan="3">Baghouse</th> <th colspan="7">Parameter</th> </tr> <tr> <th rowspan="2">Discharge Code</th> <th rowspan="2">Height (ft)</th> <th rowspan="2">Diameter (ft)</th> <th rowspan="2">Temp (°F)</th> <th colspan="2">Flow</th> <th rowspan="2">Moist (%)</th> </tr> <tr> <th>(acfm)</th> <th>(dscfm)</th> </tr> </thead> <tbody> <tr> <td>531.BF400</td> <td>H</td> <td>64</td> <td>1.00</td> <td>266</td> <td>2,800</td> <td>1996</td> <td>2.0</td> </tr> <tr> <td>531.BF290</td> <td>H</td> <td>74</td> <td>1.20</td> <td>392</td> <td>5,150</td> <td>3128</td> <td>2.0</td> </tr> </tbody> </table>				Baghouse	Parameter							Discharge Code	Height (ft)	Diameter (ft)	Temp (°F)	Flow		Moist (%)	(acfm)	(dscfm)	531.BF400	H	64	1.00	266	2,800	1996	2.0	531.BF290	H	74	1.20	392	5,150	3128	2.0
Baghouse	Parameter																																			
	Discharge Code	Height (ft)	Diameter (ft)		Temp (°F)	Flow		Moist (%)																												
				(acfm)		(dscfm)																														
531.BF400	H	64	1.00	266	2,800	1996	2.0																													
531.BF290	H	74	1.20	392	5,150	3128	2.0																													

EMISSIONS UNIT INFORMATION

Section [11] of [16]

EU 057 Finish Mill Cement Transport

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Other Not Classified (Cement Transfer)		
2. Source Classification Code (SCC): 3-05-006-99	3. SCC Units: Tons Produced	
4. Maximum Hourly Rate: 240	5. Maximum Annual Rate: 1,800,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Applies to Finish Mill Cement Transport Based on Permit Nos.0530021-018-AC and annual rate based on the hourly rate and 7500 hr/yr.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Other Not Classified (Cement Transfer)		
2. Source Classification Code (SCC): 3-05-006-99	3. SCC Units: Tons Produced	
4. Maximum Hourly Rate: 106	5. Maximum Annual Rate: 795,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Applies to Finish Mill Rejects Transport. Based on Permit 0530021-018-AC with annual rate based on the hourly rate and 7500 hr/yr.		

EMISSIONS UNIT INFORMATION
 Section [11] of [16]
 EU 057 Finish Mill Cement Transport

POLLUTANT DETAIL INFORMATION
 Page [1] of [2]
 Particulate Matter-PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.44 lb/hour 1.7 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.01 gr/acf (each baghouse) Reference: Permit No.0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment: Represents combined emissions from both baghouses.			

EMISSIONS UNIT INFORMATION
 Section [11] of [16]
 EU 057 Finish Mill Cement Transport

POLLUTANT DETAIL INFORMATION
 Page [1] of [2]
 Particulate Matter-PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/acf	4. Equivalent Allowable Emissions: 0.44 lb/hour 1.7 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on the Permit No.0530021-018-AC, BACT. Represents both baghouses combined.	

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 [11] of [16]
 EU 057 Finish Mill Cement Transport

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter-PM₁₀

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
 (Optional for unregulated emissions units.)**

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.31 lb/hour 1.2 tons/year		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: 0.007 gr/acf Reference: Permit No.0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment: Represents combined emissions from both baghouses.			

EMISSIONS UNIT INFORMATION
 Section [11] of [16]
 EU 057 Finish Mill Cement Transport

POLLUTANT DETAIL INFORMATION
 Page [2] of [2]
 Particulate Matter-PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/acf	4. Equivalent Allowable Emissions: 0.31 lb/hour 1.2 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on the permit 0530021-018-AC, BACT. Represents both baghouses combined.	

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 [11] of [16]

EU 057 Finish Mill Cement Transport

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9 annually	
Visible Emissions Comment: Based on Rule 62-297.620(4), F.A.C. and Permit 0530021-018-AC, BACT	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly, 1-minute EPA Method 22	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(a)(4)(i)	

EMISSIONS UNIT INFORMATION

Section [11] of [16]

EU 057 Finish Mill Cement Transport

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor _of _

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [11] of [16]

EU 057 Finish Mill Cement Transport

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
2.	<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p>
3.	<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
4.	<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
5.	<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
6.	<p>Compliance Demonstration Reports/Records:</p> <p><input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Previously Submitted, Date: <u>1/7/2010</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Not Applicable</p> <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.	<p>Other Information Required by Rule or Statute:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [11] of [16]

EU 057 Finish Mill Cement Transport

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 (Rules 62-212.400(4)(d) and 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

1. Identification of Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [12] of [16]

EU 058 Cement Silo 5 & Loading Bin

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [12] of [16]

EU 058 Cement Silo 5 Loading Bin

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:
Four Emission Points:
Cement Silo 5/Cement Silo 5 Loading Bin/Cement Silo 5 Loadout Spout N/Cement Silo 5 Loadout Spout S

3. Emissions Unit Identification Number: **058**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
--	--	------------------------------------	--

8. Federal Program Applicability: (Check all that apply)
- Acid Rain Unit
- CAIR Unit

9. Package Unit:
 Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

13. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [12] of [16]

EU 058 Cement Silo 5 Loading Bin

Emissions Unit Control Equipment/Method: Control 1 of 1

- | |
|--|
| 1. Control Equipment/Method Description:
Baghouses(4)-High Temperature
[Baghouses 612.BF005, 612.BF620, 622.LS140 and 622.LS160] |
| 2. Control Device or Method Code: 016 |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

EMISSIONS UNIT INFORMATION

Section [12] of [16]

EU 058 Cement Silo 5 Loading Bin

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Cement Silo 5		2. Emission Point Type Code: 3																																																		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 612.BF005 – Silo 5 Baghouse ID 612.BF620 – Loading Bin Baghouse ID 622.LS140 – Loading Spout N Baghouse ID 622.LS160 – Loading Spout S																																																				
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:																																																				
5. Discharge Type Code:	6. Stack Height: feet	7. Exit Diameter: feet																																																		
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %																																																		
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet																																																		
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)																																																		
15. Emission Point Comment:																																																				
<table border="1" style="width:100%; border-collapse: collapse; margin: 10px auto;"> <thead> <tr> <th rowspan="3" style="width:15%;">Baghouse</th> <th colspan="7" style="text-align: center;">Parameter</th> </tr> <tr> <th rowspan="2" style="width:10%;">Discharge Code</th> <th rowspan="2" style="width:10%;">Height (ft)</th> <th rowspan="2" style="width:10%;">Diameter (ft)</th> <th rowspan="2" style="width:10%;">Temp (°F)</th> <th colspan="2" style="width:20%;">Flow</th> <th rowspan="2" style="width:10%;">Moist (%)</th> </tr> <tr> <th style="width:10%;">(acfm)</th> <th style="width:10%;">(dscfm)</th> </tr> </thead> <tbody> <tr> <td>612.BF005</td> <td>H</td> <td>210</td> <td>1.53</td> <td>266</td> <td>8,300</td> <td>5916</td> <td>2.0</td> </tr> <tr> <td>612.BF620</td> <td>H</td> <td>28</td> <td>1.29</td> <td>266</td> <td>4,300</td> <td>3065</td> <td>2.0</td> </tr> <tr> <td>622.LS140</td> <td>H</td> <td>28</td> <td>0.38</td> <td>266</td> <td>1,500</td> <td>1069</td> <td>2.0</td> </tr> <tr> <td>622.LS160</td> <td>H</td> <td>28</td> <td>0.38</td> <td>266</td> <td>1,500</td> <td>1069</td> <td>2.0</td> </tr> </tbody> </table>				Baghouse	Parameter							Discharge Code	Height (ft)	Diameter (ft)	Temp (°F)	Flow		Moist (%)	(acfm)	(dscfm)	612.BF005	H	210	1.53	266	8,300	5916	2.0	612.BF620	H	28	1.29	266	4,300	3065	2.0	622.LS140	H	28	0.38	266	1,500	1069	2.0	622.LS160	H	28	0.38	266	1,500	1069	2.0
Baghouse	Parameter																																																			
	Discharge Code	Height (ft)	Diameter (ft)		Temp (°F)	Flow		Moist (%)																																												
				(acfm)		(dscfm)																																														
612.BF005	H	210	1.53	266	8,300	5916	2.0																																													
612.BF620	H	28	1.29	266	4,300	3065	2.0																																													
622.LS140	H	28	0.38	266	1,500	1069	2.0																																													
622.LS160	H	28	0.38	266	1,500	1069	2.0																																													

EMISSIONS UNIT INFORMATION

Section [12] of [16]

EU 058 Cement Silo 5 Loading Bin

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Cement Silo No. 5		
2. Source Classification Code (SCC): 3-05-006-18		3. SCC Units: Tons Cement Produced
4. Maximum Hourly Rate: 240	5. Maximum Annual Rate: 2,102,400	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Based on Permit 0530021-018-AC and annual rate based on hourly rate and 8,760 hr/yr.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process);Cement Silo Loading Bin and N and S Loading Spouts		
2. Source Classification Code (SCC): 3-05-006-18		3. SCC Units: Tons Cement Produced
4. Maximum Hourly Rate: 625	5. Maximum Annual Rate: 5,475,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Applies to Silo 5 Loading Bin and N & S Loading Spouts. Annual rate based on the hourly rate and 8,760 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [12] of [16]
 EU 058 Cement Silo 5 Loading Bin

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter-PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
 (Optional for unregulated emissions units.)**

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.95 lb/hour 4.2 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.01 gr/acf (each baghouse) Reference: Permit No.0530021-018-AC, BACT		7. Emissions Method Code: 0	
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: Annual emissions based on 8760 hr/yr.			
11. Potential, Fugitive, and Actual Emissions Comment: Represents combined emissions from all 4 baghouses.			

EMISSIONS UNIT INFORMATION

Section [12] of [16]
 EU 058 Cement Silo 5 Loading Bin

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter-PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/acf	4. Equivalent Allowable Emissions: 0.95 lb/hour 4.2 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on the Permit No.0530021-018-AC, BACT. Represents all 4 baghouses combined	

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 [12] of [16]
 EU 058 Cement Silo 5 Loading Bin

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter-PM₁₀

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS
 (Optional for unregulated emissions units.)**

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.65 lb/hour 2.9 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.007 gr/acf (each baghouse) Reference: Permit No.0530021-018-AC, BACT		7. Emissions Method Code: 0	
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: Annual emissions based on 8760 hr/yr.			
11. Potential, Fugitive, and Actual Emissions Comment: Represents combined emissions from all 4 baghouses.			

EMISSIONS UNIT INFORMATION

Section [12] of [16]
 EU 058 Cement Silo 5 Loading Bin

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter-PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/acf	4. Equivalent Allowable Emissions: 0.67 lb/hour 2.9 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on the permit 0530021-018-AC, BACT. Represents all four baghouses.	

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 [12] of [16]

EU 058 Cement Silo 5 Loading Bin

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9 annually	
Visible Emissions Comment: Based on Rule 62-297.620(4) F.A.C. and Permit 0530021-018-AC, BACT.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly 1-minute EPA Method 22	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(a)(4)(i)	

EMISSIONS UNIT INFORMATION

Section [12] of [16]

EU 058 Cement Silo 5 Loading Bin

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor _of_ _

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [12] of [16]

EU 058 Cement Silo 5 Loading Bin

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>6. Compliance Demonstration Reports/Records:</p> <p><input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Previously Submitted, Date: <u>11/13/2009</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Not Applicable</p> <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>
<p>7. Other Information Required by Rule or Statute:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [12] of [16]

EU 0058 Cement Silo 5 Loading Bin

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 (Rules 62-212.400(4)(d) and 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

1. Identification of Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [13] of [16]

EU 059 Multi Cell Cement Silo

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [13] of [16]

EU 059 Multi Cell Cement Silo

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:
Four Emission Points:
Multi Cell Cement Silo/Multi Cell Cement Silo Alleviator/Multi Cell Loadout Transport/Multi Cell Loadout Spout

3. Emissions Unit Identification Number: **059**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
--	--	------------------------------------	--

8. Federal Program Applicability: (Check all that apply)
- Acid Rain Unit
- CAIR Unit

9. Package Unit:
 Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

14. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [13] of [16]

EU 059 Multi Cell Cement Silo

Emissions Unit Control Equipment/Method: Control 1 of 1

- | |
|---|
| 1. Control Equipment/Method Description:
Baghouses(4)-High Temperature
[Baghouses 611.BF005, 611.BF045, 611.BF610 and 611.LS760 |
| 2. Control Device or Method Code:016 |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

EMISSIONS UNIT INFORMATION

Section [13] of [16]

EU 059 Multi Cell Cement Silo

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:																																															
2. Maximum Production Rate:																																															
3. Maximum Heat Input Rate: million Btu/hr																																															
4. Maximum Incineration Rate: pounds/hr tons/day																																															
5. Requested Maximum Operating Schedule:																																															
24 hours/day			7 days/week																																												
52 weeks/year			8,760 hours/year																																												
6. Operating Capacity/Schedule Comment:																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: center;">Baghouse</th> <th colspan="2" style="text-align: center;">Maximum Throughput Rate</th> <th colspan="4" style="text-align: center;">Operating Schedule</th> </tr> <tr> <th style="text-align: center;">(tph)</th> <th style="text-align: center;">(tpy)</th> <th style="text-align: center;">(hr/day)</th> <th style="text-align: center;">(day/wk)</th> <th style="text-align: center;">(wk/yr)</th> <th style="text-align: center;">(hr/yr)</th> </tr> </thead> <tbody> <tr> <td>Multi-cell Silo - 611.BF005</td> <td style="text-align: center;">240</td> <td style="text-align: center;">2,102,400</td> <td style="text-align: center;">24</td> <td style="text-align: center;">7</td> <td style="text-align: center;">52</td> <td style="text-align: center;">8760</td> </tr> <tr> <td>Silo Alleviator - 611.BF045</td> <td style="text-align: center;">240</td> <td style="text-align: center;">2,102,400</td> <td style="text-align: center;">24</td> <td style="text-align: center;">7</td> <td style="text-align: center;">52</td> <td style="text-align: center;">8760</td> </tr> <tr> <td>Loadout Trans - 611.BF610</td> <td style="text-align: center;">625</td> <td style="text-align: center;">5,475,000</td> <td style="text-align: center;">24</td> <td style="text-align: center;">7</td> <td style="text-align: center;">52</td> <td style="text-align: center;">8760</td> </tr> <tr> <td>Silo Loadout - 611.LS760</td> <td style="text-align: center;">625</td> <td style="text-align: center;">625,000</td> <td style="text-align: center;">24</td> <td style="text-align: center;">7</td> <td style="text-align: center;">52</td> <td style="text-align: center;">1000</td> </tr> </tbody> </table>							Baghouse	Maximum Throughput Rate		Operating Schedule				(tph)	(tpy)	(hr/day)	(day/wk)	(wk/yr)	(hr/yr)	Multi-cell Silo - 611.BF005	240	2,102,400	24	7	52	8760	Silo Alleviator - 611.BF045	240	2,102,400	24	7	52	8760	Loadout Trans - 611.BF610	625	5,475,000	24	7	52	8760	Silo Loadout - 611.LS760	625	625,000	24	7	52	1000
Baghouse	Maximum Throughput Rate		Operating Schedule																																												
	(tph)	(tpy)	(hr/day)	(day/wk)	(wk/yr)	(hr/yr)																																									
Multi-cell Silo - 611.BF005	240	2,102,400	24	7	52	8760																																									
Silo Alleviator - 611.BF045	240	2,102,400	24	7	52	8760																																									
Loadout Trans - 611.BF610	625	5,475,000	24	7	52	8760																																									
Silo Loadout - 611.LS760	625	625,000	24	7	52	1000																																									

EMISSIONS UNIT INFORMATION

Section [13] of [16]

EU 059 Multi Cell Cement Silo

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Multi-Cell Loadout		2. Emission Point Type Code: 3																																																						
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 611.BF005 – Multi-Cell Silo Baghouse ID 611.BF045 – Silo Alleviator Baghouse ID 611.BF610 – Loadout Transport Baghouse ID 611.BF760 – Silo Loadout																																																								
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:																																																								
5. Discharge Type Code:	6. Stack Height: feet	7. Exit Diameter: feet																																																						
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %																																																						
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet																																																						
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)																																																						
15. Emission Point Comment:																																																								
<table border="1" style="width:100%; border-collapse: collapse; margin: 10px auto;"> <thead> <tr> <th rowspan="3" style="width:15%;">Baghouse</th> <th colspan="7" style="text-align: center;">Parameter</th> </tr> <tr> <th rowspan="2" style="width:10%;">Discharge Code</th> <th rowspan="2" style="width:10%;">Height (ft)</th> <th rowspan="2" style="width:10%;">Diameter (ft)</th> <th rowspan="2" style="width:10%;">Temp (°F)</th> <th colspan="2" style="text-align: center;">Flow</th> <th rowspan="2" style="width:10%;">Moist (%)</th> </tr> <tr> <th style="width:10%;">(acfm)</th> <th style="width:10%;">(dscfm)</th> </tr> </thead> <tbody> <tr> <td>611.BF005</td> <td>H</td> <td>208</td> <td>1.33</td> <td>266</td> <td>2,200</td> <td>1568</td> <td>2.0</td> </tr> <tr> <td>611.BF045</td> <td>H</td> <td>210</td> <td>1.37</td> <td>266</td> <td>7,500</td> <td>5345</td> <td>2.0</td> </tr> <tr> <td>611.BF610</td> <td>H</td> <td>38</td> <td>1.42</td> <td>266</td> <td>1,600</td> <td>1140</td> <td>2.0</td> </tr> <tr> <td>611.LS760</td> <td>H</td> <td>29</td> <td>0.38</td> <td>266</td> <td>1,500</td> <td>1069</td> <td>2.0</td> </tr> </tbody> </table>								Baghouse	Parameter							Discharge Code	Height (ft)	Diameter (ft)	Temp (°F)	Flow		Moist (%)	(acfm)	(dscfm)	611.BF005	H	208	1.33	266	2,200	1568	2.0	611.BF045	H	210	1.37	266	7,500	5345	2.0	611.BF610	H	38	1.42	266	1,600	1140	2.0	611.LS760	H	29	0.38	266	1,500	1069	2.0
Baghouse	Parameter																																																							
	Discharge Code	Height (ft)	Diameter (ft)	Temp (°F)	Flow		Moist (%)																																																	
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611.BF005	H	208	1.33	266	2,200	1568	2.0																																																	
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611.BF610	H	38	1.42	266	1,600	1140	2.0																																																	
611.LS760	H	29	0.38	266	1,500	1069	2.0																																																	

EMISSIONS UNIT INFORMATION

Section [13] of [16]

EU 059 Multi Cell Cement Silo

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 4

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Cement Silos – Multi-cell Silo		
2. Source Classification Code (SCC): 3-05-006-18	3. SCC Units: Tons Cement Produced	
4. Maximum Hourly Rate: 240	5. Maximum Annual Rate: 2,102,400	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Applies to Multi-cell Silo. Annual rate based on the hourly rate and 8,760 hr/yr.		

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process);Cement Silos – Alleviator		
2. Source Classification Code (SCC): 3-05-006-18	3. SCC Units: Tons Cement Produced	
4. Maximum Hourly Rate: 240	5. Maximum Annual Rate: 2,102,400	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Applies to Multi-Cell Alleviator. Annual rate based on the hourly rate and 8,760 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [13] of [16]

EU 059 Multi Cell Cement Silo

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process);Cement Silos – Load-out Transport		
2. Source Classification Code (SCC): 3-05-006-18	3. SCC Units: Tons Cement Produced	
4. Maximum Hourly Rate: 625	5. Maximum Annual Rate: 5,475,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Applies to Multi-Cell Load-out Transport with annual rate based on the hourly rate and 8,760 hr/yr.		

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process);Cement Silos – Silo Load-out		
2. Source Classification Code (SCC): 3-05-006-18	3. SCC Units: Tons Cement Produced	
4. Maximum Hourly Rate: 625	5. Maximum Annual Rate: 625,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Applies to Multi-Cell Silo Load-out with annual rate based on the hourly rate and 1000 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [13] of [16]
EU 059 Multi Cell Cement Silo

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter-PM

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control:
3. Potential Emissions: 0.78 lb/hour 3.4 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): tons/year	
6. Emission Factor: 0.01 gr/acf (each baghouse) Reference: Permit No.0530021-018-AC, BACT	7. Emissions Method Code: 0
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:	
11. Potential, Fugitive, and Actual Emissions Comment: Represents combined emissions from all 4 baghouses.	

EMISSIONS UNIT INFORMATION

Section [13] of [16]
EU 059 Multi Cell Cement Silo

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter-PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/acf	4. Equivalent Allowable Emissions: 0.78 lb/hour 3.4 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based on the Permit No.0530021-018-AC, BACT Represents all 4 baghouses combined.	

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 [13] of [16]
 EU 059 Multi Cell Cement Silo

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter-PM₁₀

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.54 lb/hour 2.4 tons/year		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: 0.007 gr/acf (each baghouse) Reference: Permit No.0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment: Represents combined emissions from all 4 baghouses.			

EMISSIONS UNIT INFORMATION

Section [13] of [16]
 EU 059 Multi Cell Cement Silo

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter-PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/acf	4. Equivalent Allowable Emissions: 0.54 lb/hour 2.4 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based on the permit 0530021-018-AC, BACT Represents all four baghouses.	

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 [13] of [16]

EU 059 Multi Cell Cement Silo

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9 annually	
Visible Emissions Comment: Based on Permit 0530021-018-AC, BACT and Rule 62-297.620(4), F.A.C.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly, 1-minute EPA Method 22 test	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(a)(4)(i)	

EMISSIONS UNIT INFORMATION

Section [13] of [16]

EU 059 Multi Cell Cement Silo

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor _of _

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [13] of [16]

EU 059 Multi Cell Cement Silo

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
2.	<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p>
3.	<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
4.	<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
5.	<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
6.	<p>Compliance Demonstration Reports/Records:</p> <p><input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Previously Submitted, Date: <u>2/11/2010</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Not Applicable</p> <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.	<p>Other Information Required by Rule or Statute:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [13] of [16]

EU 059 Multi Cell Cement Silo

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 (Rules 62-212.400(4)(d) and 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

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 checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [14] of [16]

EU 060 Coal Mill

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [14] of [16]

EU 060 Coal Mill

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:
Single Emission Point:
Coal Mill

3. Emissions Unit Identification Number: **060**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
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8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

9. Package Unit:
 Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

16. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [14] of [16]

EU 060 Coal Mill

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:

Baghouse-Low Temperature
[Baghouse 461.BF400]

2. Control Device or Method Code:**018**

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [14] of [16]

EU 060 Coal Mill

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 20 TPH; 175,200 TPY coal or pet coke		
2. Maximum Production Rate:		
3. Maximum Heat Input Rate: million Btu/hr		
4. Maximum Incineration Rate: pounds/hr tons/day		
5. Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment:		

EMISSIONS UNIT INFORMATION

Section [14] of [16]

EU 060 Coal Mill

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Coal Mill		2. Emission Point Type Code: 2	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 461.BF400			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 320 feet	7. Exit Diameter: 13.6 feet	
8. Exit Temperature: 170°F	9. Actual Volumetric Flow Rate: 27,777 acfm	10. Water Vapor: 2 %	
11. Maximum Dry Standard Flow Rate: 22,814 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment: Coal mill discharges thru Kiln/Raw Mill/Clinker Cooler stack.			

EMISSIONS UNIT INFORMATION

Section [14] of [16]

EU 060 Coal Mill

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Pulverized Coal Kiln Feed Units (Coal Mill)		
2. Source Classification Code (SCC): 3-05-006-21		3. SCC Units: Tons Processed (Coal or Petcoke)
4. Maximum Hourly Rate: 20	5. Maximum Annual Rate: 175,200	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Annual rate based on 8760 hr/yr.		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [14] of [16]
EU 060 Coal Mill

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter-PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/acf	4. Equivalent Allowable Emissions: 1.96 lb/hour 8.6 tons/year
5. Method of Compliance: Compliance determined in accordance with Kiln Stack requirements.	
6. Allowable Emissions Comment (Description of Operating Method): Based on the Permit No.0530021-018-AC, BACT	

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 [14] of [16]

EU 060 Coal Mill

POLLUTANT DETAIL INFORMATION

Page [2] of [2]

Particulate Matter-PM₁₀

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 1.37 lb/hour 6.0 tons/year		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: 0.007 gr/acf Reference: Permit No.0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [14] of [16]
 EU 060 Coal Mill

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter-PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/acf	4. Equivalent Allowable Emissions: 1.37 lb/hour 6.0 tons/year
5. Method of Compliance: Compliance determined in accordance with Kiln Stack requirements.	
6. Allowable Emissions Comment (Description of Operating Method): Based on the permit 0530021-018-AC, BACT	

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 [14] of [16]

EU 060 Coal Mill

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Compliance determined in accordance with Kiln Stack requirements.	
5. Visible Emissions Comment: The Coal Mill Baghouse exhausts through the Main Kiln 2 baghouse. The VE limit of 10% for the Main Kiln 2 stack applies for compliance purposes.	

Visible Emissions Limitation: Visible Emissions Limitation of

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [14] of [16]

EU 060 Coal Mill

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>6. Compliance Demonstration Reports/Records:</p> <p><input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Previously Submitted, Date: <u>1/6/2010</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Not Applicable</p> <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>
<p>7. Other Information Required by Rule or Statute:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [14] of [16]

EU 060 Coal Mill

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)**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 (Rules 62-212.400(4)(d) and 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

1. Identification of Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [15] of [16]

EU 061 Fine Coal Bin

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [15] of [16]

EU 061 Fine Coal Bin

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:

Single Emission Point:
Fine Coal Bin

3. Emissions Unit Identification Number: **061**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
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8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

9. Package Unit:

Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

7. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [15] of [16]

EU 061 Fine Coal Bin

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:

**Baghouse-High Temperature
[Baghouse 461.BF560]**

2. Control Device or Method Code: **016**

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [15] of [16]

EU 061 Fine Coal Bin

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 20 TPH; 175,200 TPY		
2. Maximum Production Rate:		
3. Maximum Heat Input Rate: million Btu/hr		
4. Maximum Incineration Rate: pounds/hr tons/day		
5. Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment:		
Annual rate is based on 8760 hr/yr.		

EMISSIONS UNIT INFORMATION

Section [15] of [16]

EU 061 Fine Coal Bin

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Fine Coal Bin		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 461.BF560			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 59 feet	7. Exit Diameter: 0.5 feet	
8. Exit Temperature: 302°F	9. Actual Volumetric Flow Rate: 544 acfm	10. Water Vapor: 2 %	
11. Maximum Dry Standard Flow Rate: 369 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [15] of [16]

EU 061 Fine Coal Bin

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Pulverized Coal Kiln Feed Units (Fine Coal Bin)		
2. Source Classification Code (SCC): 3-05-006-21	3. SCC Units: Tons Processed	
4. Maximum Hourly Rate: 20	5. Maximum Annual Rate: 175,200	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [15] of [16]
 EU 061 Fine Coal Bin

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter-PM

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.03 lb/hour 0.13 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.01 gr/acf Reference: Permit No.0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [15] of [16]
 EU 061 Fine Coal Bin

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter-PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/acf	4. Equivalent Allowable Emissions: 0.03 lb/hour 0.13 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based on the Permit No.0530021-018-AC, BACT	

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 [15] of [16]
 EU 061 Fine Coal Bin

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter-PM₁₀

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.02 lb/hour 0.09 tons/year		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: 0.007 gr/acf Reference: Permit No.0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [15] of [16]
 Packing Unit

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter-PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/acf	4. Equivalent Allowable Emissions: 0.02 lb/hour 0.09 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based on the permit 0530021-018-AC, BACT	

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 [15] of [16]

EU 061 Fine Coal Bin

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual compliance test using EPA Method 9.	
5. Visible Emissions Comment: Based on Permit No.0530021-018-AC	

Visible Emissions Limitation: Visible Emissions Limitation

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [15] of [16]

EU 061 Fine Coal Bin

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [15] of [16]

EU 061 Fine Coal Bin

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>6. Compliance Demonstration Reports/Records:</p> <p><input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Previously Submitted, Date: <u>1/6/2010</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u> _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Not Applicable</p> <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>
<p>7. Other Information Required by Rule or Statute:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [15] of [16]

EU 061 Fine Coal Bin

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 (Rules 62-212.400(4)(d) and 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

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 checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION

Section [16] of [16]

EU 062 Packing Plant

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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 [16] of [16]

EU 062 Packing Plant

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:
Single Emission Point:
Packing Plant

3. Emissions Unit Identification Number: **062**

4. Emissions Unit Status Code: A	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 32
--	--	------------------------------------	--

8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

9. Package Unit:
 Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

8. Emissions Unit Comment:

EMISSIONS UNIT INFORMATION

Section [16] of [16]

EU 062 Packing Plant

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:
Baghouse-High Temperature

2. Control Device or Method Code:**016**

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [16] of [16]

EU 062 Packing Plant

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: Packing Plant		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 641.BF150			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 39 feet	7. Exit Diameter: 2.11 feet	
8. Exit Temperature: 266°F	9. Actual Volumetric Flow Rate: 19,200 acfm	10. Water Vapor: 2.0 %	
11. Maximum Dry Standard Flow Rate: 13,684 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [16] of [16]

EU 062 Packing Plant

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Cement Loadout (Packing Plant)		
2. Source Classification Code (SCC): 3-05-006-19	3. SCC Units: Tons Cement Produced	
4. Maximum Hourly Rate: 200	5. Maximum Annual Rate: 1,752,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Maximum annual rate is based on the hourly rate and 8760 hr/yr		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [16] of [16]
EU 062 Packing Plant

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter-PM

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 1.17 lb/hour 5.1 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.01 gr/acf Reference: Based on 0530021-018-AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [16] of [16]
 EU 062 Packing Plant

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 Particulate Matter-PM

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/acf	4. Equivalent Allowable Emissions: 1.17 lb/hour 5.1 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit 0530021-018-AC, BACT	

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 [16] of [16]
 EU 062 Packing Plant

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter-PM₁₀

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM₁₀		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.82 lb/hour 3.6 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year			
6. Emission Factor: 0.007 gr/acf Reference: Based on 0530021-018 AC, BACT		7. Emissions Method Code: 0	
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:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [16] of [16]
 Packing Unit

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter-PM₁₀

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

Complete Subsection F2 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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.007 gr/acf	4. Equivalent Allowable Emissions: 0.82 lb/hour 3.6 tons/year
5. Method of Compliance: Annual compliance test using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): Based Permit 0530021-018-AC, BACT	

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 [16] of [16]

EU 062 Packing Plant

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual, EPA Method 9	
Visible Emissions Comment: Based on Permit 0530021-018-AC, BACT and Rule 62-297.620(4), F.A.C.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Monthly, 1-minute EPA Method 22 test	
5. Visible Emissions Comment: Based on 40 CFR 63.1350(a)(4)(i)	

EMISSIONS UNIT INFORMATION

Section [16] of [16]

EU 062 Packing Plant

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor _ of _

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [16] of [16]

EU 062 Packing Plant

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Previously Submitted</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u></p>
<p>6. Compliance Demonstration Reports/Records:</p> <p><input type="checkbox"/> Attached, Document ID: _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Previously Submitted, Date: <u>1/7/2010</u></p> <p>Test Date(s)/Pollutant(s) Tested: <u>VE</u></p> <p>_____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p>_____</p> <p><input type="checkbox"/> Not Applicable</p> <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>
<p>7. Other Information Required by Rule or Statute:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [16] of [16]

EU 062 Packing Plant

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

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 (Rules 62-212.400(4)(d) and 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

1. Identification of Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

<p>See Attachments A and B</p>

Attachment A
Description of Proposed Project

INTRODUCTION

CEMEX Construction Materials Florida, LLC (CEMEX) operates a Portland Cement Manufacturing facility in Hernando County, Florida, northwest of the city of Brooksville. The facility is referred to as the CEMEX Brooksville South plant. The plant consists of two cement production lines; Line No. 1 which shares a baghouse/emission point with a coal-fired electric power boiler, and Line No. 2 which is a stand alone Portland cement manufacturing plant. This application addresses three projects related to the facility;

- - a production rate increase for Line No. 2,
- - changes in the format of the PM/PM₁₀ emission limits for the finish mill of Line No. 2, and
- - the re-designation of an emission unit serving Line No. 1 as an Insignificant Activity.

These three projects are addressed in detail herein.

Clinker Receiving and Handling – Emission Unit-008

The clinker receiving and handling Emission Unit (EU-008) was initially designed to receive clinker from off-site and to deliver the clinker to the Line No. 1 clinker storage and handling system. EU-008 was rebuilt and reconfigured during the construction of Line No. 2 but still functions to deliver clinker to Line No. 1. As CEMEX can now produce all of the clinker needed at the site, the clinker receiving and handling system is used only to reclaim clinker produced on-site that, for one reason or another, was placed in temporary outside storage.

Because very little clinker is placed in outside storage, the clinker receiving and handling system operates very infrequently and on a non-scheduled basis. For example, in 2010, the system handled 8110 tons of clinker and operated approximately 253 hours.

During a recent discussion with the FDEP Southwest District Office regarding the difficulties of scheduling annual compliance testing for the unit, the Southwest District suggested that EU-008 be re-designated as an Insignificant Activity; thus, eliminating the need for annual compliance testing.

As EU-008 operates very infrequently, less than 400 hours per year, and since the PM emissions from the unit are *de minimis* (0.7 pounds per hour and 0.14 tons per year at 400 hours per year operation), CEMEX is requesting that the recommendation of the Southwest District be adopted and that EU-008 be reclassified as an Insignificant Activity.

Line No. 2 Production Rate Increase

Line No. 2 is a modern dry-process preheater/precaliner cement plant supported by a raw materials handling and raw mill system, a clinker handling system, finish grinding operations with an air heater, cement storage and shipping facilities and coal handling and grinding operations. Line No. 2 was originally permitted July 6, 2005 under FDEP Permit 0530021-009-AC (PSD-FL-351). The permitted production limit of Line No. 2 is 125 tons per hour of clinker, maximum 1-hour average, 2800 tons per day, 24-hour average and 1,022,000 tons per year.

It is the position of FDEP that construction on Line No. 2 commenced after December 2, 2005. Plant start up was in November, 2008. The plant was re-permitted by Permit 0530021-018-AC (PSD-FL351C), issued February 18, 2010, to correct for differences between the originally permitted plant and the as-built plant. The original project was subject to a PSD review and a BACT determination for NO_x, PM, PM₁₀, SO₂, CO and VOC. The re-permitting under Permit 018-AC avoided a PSD review and BACT determination as emission rate increases of regulated pollutants were less than significant.

At this time, CEMEX is seeking authorization to increase the clinker production capacity of Line No. 2 from 2,800 tons per day to 3,500 tons per day. This rate increase will be accomplished by taking advantage of excess capacity designed and built into the plant. Documentation provided by CEMEX and included as Attachment B to this application provides assurance of the capability of all components of the plant, from raw material handling to cement shipping, to handle this rate increase.

There is one minor equipment modification project that CEMEX requests authorization to proceed with under this project; and that involves the raw mill. It should be noted that this is a matter that CEMEX would be seeking Department approval for even if the proposed Line No. 2 production rate increase was not requested.

Operationally, the raw mill was designed for 240 tons per hour (dry basis) at a feed moisture of 14 percent. The system has not been able to achieve this rate with a feed moisture over 11 percent; thus, problems are encountered during seasonally wet periods. The limitation is caused by plugging of the raw material feed chute and diverter gate that

were designed to split a portion of the raw material feed between the flash dryer and the raw mill inlet. As a result of the plugging, all of the raw material is sent through the flash dryer, effectively overloading the drying capacity.

The two options that CEMEX is considering to resolve this problem are either a reconfiguration of the handling chute and diverter gate or the installation of a screen that will split the raw material feed allowing the coarse fraction enter the raw mill directly while the fine fraction passes through the flash dryer. These options are explained in more detail in Attachment B.

It should be noted that the modification to the raw mill system described in the preceding paragraphs is a minor modification to the feed components of the raw mill. The raw mill itself (a F.L. Smidth ball mill) is capable of grinding the raw material necessary to support a clinker production rate of 3,500 tons per day; it is only the feed system of the raw mill that will be reconfigured. As previously mentioned, this reconfiguration of the feed components is something that CEMEX would request even if the Line No. 2 production rate was to remain at 2,800 tons per day.

The Line No. 2 production rate increase will be achieved with no increase in the emission rate of any regulated pollutant. This will be accomplished by decreasing the emission factors (pounds per ton of kiln feed or pounds per ton of clinker) for pollutants emitted from the pyroprocessing system (kiln, raw mill and clinker cooler) proportionately with the feed/clinker rate increase. The currently permitted and proposed emission factors and

mass emission rates of regulated pollutants emitted from the kiln/raw mill/clinker cooler and other Emission Units associated with Line No. 2 are summarized in Table 1.

With all of the material handling emission units/emission points, PM/PM₁₀ emissions will remain unchanged. The PM/PM₁₀ BACT limits for these emission units are concentration limits established by Permits -009-AC and -018-AC. The limits are 0.01 grains per dry standard cubic foot for PM and 0.007 grains per dry standard cubic foot for PM₁₀. As stated, these concentration limits will remain the same, the air flow through the dust collectors will remain unchanged as no modifications will be made to any of the dust collector ID fans and the permitted hours of operation will not change; hence, hourly and annual permitted mass emission rates will remain unchanged.

With the finish mill and finish mill air heater, the PM/PM₁₀ emission limits are being reformatted as part of this project (see following Section) and the result will be a decrease in permitted PM/PM₁₀ emissions. With the finish mill air heater, the combustion products are associated with the firing of low sulfur No. 2 fuel oil. The SO₂ emissions will remain unchanged (at 2.6 tons per year) while NO_x and CO emissions will decrease significantly due to a correction of an error found in the application for Permit -018-AC. The proposed mass emission rates of regulated pollutants from the finish mill and other Line No. 2 Emission Units are summarized in Table 1.

In summary, the proposed production rate increase for Line No. 2, along with the reformatting of emission limits for Finish Mill No. 2, will be accomplished with a decrease in permitted emission rates of regulated pollutants as summarized in Tables 1

and 2. The currently permitted and proposed throughput rates and annual operating hours for all Line No. 2 Emission Units are summarized in Table 3.

Finish Mill No. 2 PM/PM10 Limits

CEMEX is requesting that the particulate matter and PM10 (PM/PM10) emission limits for Finish Mill No. 2 (EU-052) be stated on a different bases than the limits are stated in Permit 0530021-018-AC (PSD-FL-351C), issued February 18, 2010. The reason for restating the PM/PM10 emission limits results from the fact that the limits are stack gas concentration limits (grains per dry standard cubic foot) carried over from the original permit issued for plant construction (Permit 0530021-009-AC (PSD-FL-351), issued July 6, 2005) and there are significant differences between the finish mill as originally permitted and the finish mill that is part of the as-built plant. The as-built finish mill and other as-built modifications were addressed with Permit 0530021-018-AC, PSD-FL-351C.

The PM/PM10 limit in the permit for the as-built facility was improvidently stated in Permit -018-AC. The reason for this, as explained elsewhere in this application, are that the size of the dust collector and the purpose of the dust collector are different in the as-built permit (issued by the Department on February 18, 2010) as compared to the original (pre-construction) permit (Permit -009-AC, issued July 6, 2005). The PM/PM10 limits should have been restated at the time the as-builts were permitted, but were not. The PM/PM10 limit requested here are but a restating of the originally intended emission limits (see Tables 5 and 6 below). Consequently, subsequent compliance testing did not properly determine compliance for the facility as built and permitted by -018-AC.

As designed and originally permitted (-009-AC) Cement Production Line No. 2 was expected to be a Polysius plant. The plant as-built however, was an F.L. Smidth plant. Differences between the plant as originally permitted and the plant as-built were addressed with Permit 0530021-018-AC. This included major differences in the design and operating characteristics of the finish mill. As a result of these differences, the concentration based PM/PM10 emission limits in Permit -009-AC that were carried over into Permit -018-AC are not appropriate. In this section, the differences in design and operating characteristics of the two types of finish mills are described and restated PM/PM10 emission limits are proposed for the as-built No. 2 Finish Mill.

Polysius Designed Finish Mill - The finish mill in the Polysius plant permitted by Permit -009-AC was a ball mill with a finished cement production rate of 138 tons per hour. In this mill, 138 tons per hour of clinker (~95 percent) and gypsum (~five percent) were to be blended with about 312 tons per hour of recycled over-sized material and ground. The mill was to be swept with air to remove particles that were at, and near the size required for finished cement. The product leaving the mill would have passed through a cyclonic separator where approximately 90 percent of the product would have been recovered and delivered to a recovered product air-slide. The 10 percent of the product that would have passed through the cyclonic dust collector would have been recovered in a baghouse dust collector and delivered to the same recovered product air-slide. Thus, of the 450 tons per hour of product swept from the finish mill, approximately 405 tons per hour would have been recovered by the cyclonic collector and about 45 tons per hour of the material would have entered the baghouse dust collector and would have been recovered there.

The 450 tons per hour of recovered product would have been transferred by elevator and air-slides to a classifier designed to separate finished cement from oversized product. Approximately 30 percent of the material entering the classifier would have been finished cement that would have been delivered to the cement silos and the remaining 70 percent would have been over-sized product that would have been returned to the finish mill. For the originally permitted Polysius plant, the finished cement production rate was 138 tons per hour and the oversized material recycle rate was about 312 tons per hour. A simplified flow diagram of the Polysius finish mill is presented as Figure 1.

At issue is the baghouse dust collector used for product recovery; and more specifically, the PM/PM10 emission limits for the baghouse. The Polysius baghouse had a design air flow rate of approximately 40,000 actual cubic feet per minute at a nominal temperature of 230°F and a nominal moisture content of 10 percent. The standard gas flow rate through this baghouse was nominally 27,000 dry standard cubic feet per minute. As previously stated, the dust loading to the baghouse was approximately 45 tons per hour; 10 percent of the product swept from the finish mill.

As the emission rates of PM/PM10 (and other pollutants) from the originally designed Polysius plant triggered a PSD review, a Best Available Control Technology (BACT) analysis was required for all PM/PM10 emission units. This included the product recovery baghouse dust collector in the finish mill.

In the application for the permit (-009-AC), the applicant proposed PM/PM10 concentration limits in the air stream discharged from the finish mill baghouse as BACT. The concentration limits proposed were 0.01 grains per dry standard cubic foot for PM and 0.007 grains per dry standard cubic foot for PM10. These concentration limits and the standard gas flow rate through the baghouse (27,000 dscfm) resulted in PM mass emission rates of 2.3 pounds per hour and 10.12 tons per year and PM10 emission rates of 1.62 pounds per hour and 7.08 tons per year. Note that while these mass emission rates were derived from the PM/PM10 BACT concentration limits, they were not BACT limits themselves.

FDEP agreed with the applicant's proposal and the PM/PM10 concentration limits (but not the mass emission limits) became BACT for the product recovery dust collector in the finish mill. It should be noted, that these concentration limits were consistent with PM/PM10 BACT limits permitted for product recovery dust collectors on finish mills at other Polysius designed plants in Florida (e.g., Suwannee American Cement, Florida Rock Industries and American Cement).

F.L. Smidth Designed Finish Mill - The plant that was constructed was a F.L. Smidth plant rather than a Polysius plant. The finish mill of the F.L. Smidth plant is a vertical roller mill rather than a ball mill and product recovery depends entirely upon a baghouse dust collector, rather than a combination of a cyclonic collector followed by a baghouse as is the case in a Polysius design. As previously stated, the differences between the Polysius design and the F.L. Smidth design were addressed with Permit 0530021-018-AC (PSD-FL-351C).

The F.L. Smidth finish mill is a vertical roller mill with a throughput capacity of 240 tons per hour of clinker (~95 percent) and gypsum (~five percent). The roller mill is swept with an air stream of approximately 270,000 actual cubic feet per minute (acfm) at a nominal temperature of 230°F and a nominal moisture content of five percent. This flow translates to a standard flow rate of approximately 200,000 dry standard cubic feet per minute (dscfm).

The entire 240 ton per hour output of the finish mill is delivered to a baghouse dust collector for product recovery in the 270,000 acfm air stream. The recovered finished cement is delivered to cement silos while the airstream discharged from the baghouse is split with one fraction discharged to the atmosphere and the remaining fraction recirculated back to the finish mill.

The fraction of the airstream re-circulated back to the finish mill varies. For permitting purposes (-018-AC), it was determined that the maximum amount of air discharged to the atmosphere through the baghouse stack would be 50 percent of the flow through the baghouse; or 100,000 dry standard cubic feet per minute. It should be noted that the fractions of air leaving the baghouse that are discharged to the atmosphere and re-circulated back to the finish mill have no affect on the airflow through the baghouse or the dust loading to the baghouse. The flow through the baghouse remains at 200,000 dry standard cubic feet per minute and the dust loading to the baghouse remains at approximately 240 tons per hour. As a side note, the purpose of gas recirculation is to

recover the heat in the gas stream for purposes of energy conservation. A diagram of the F.L. Smidth finish mill and product recovery dust collector is presented as Figure 2.

Because of the change from a Polysius to a F.L. Smidth plant, Permit 0530021-018-AC (PSD-FL-351C) was issued to address the differences. In the application for this permit and in supplemental information provided to the Department in response to Requests for Additional Information, the BACT concentration limits of 0.01 and 0.007 grains per dry standard cubic foot for PM and PM10, respectively were retained for the F.L. Smidth finish mill baghouse, and a maximum stack gas discharge rate of 100,000 dry standard cubic feet per minute was established (50 percent of the flow through the baghouse).

The mass emission rates corresponding to these BACT PM and PM10 concentration limits (at a stack gas flow rate of 100,000 dscfm) are 8.57 pounds per hour and 37.5 tons per year for PM and 6.00 pounds per hour and 26.3 tons per year for PM10; with the annual rates calculated on the basis of 8760 operating hours per year.

The differences in the PM and PM10 emission limits between the originally permitted plant and the permitted as-built plant are summarized in Table 5. It will be noted that the BACT concentration limits for PM and PM10 remained the same in the two permits while the mass emission rates of PM and PM10 increased with the as-built plant. The increases in PM and PM10 emissions were addressed by air quality modeling associated with Permit -018-AC (PSD-FL-351C).

TABLE 5
 PM/PM10 Emission Limits for Finish Mill No. 2
 Permit 0530021-009-AC; Original Permit
 Permit 0530021-018-AC; As-built Permit
 CEMEX Construction Materials, LLC - Brooksville South Cement Plant
 Brooksville, Florida

Permit	BACT Limits (grains/dscf)		Stack Gas Flow (dscfm)	Operating Time (hr/yr)	Equivalent non-BACT Mass Limits			
	PM	PM10			(lb/hr)		(tons/year)	
					PM	PM10	PM	PM10
0530021-009-AC Original Permit	0.01	0.007	27,000	8,760	2.31	1.62	10.1	7.1
0530021-018-AC As-built Permit	0.01	0.007	100,000	8,760	8.57	6.00	37.5	26.3

Comparison of PM/PM10 Emission Limits - In the originally permitted plant (Permit - 009-AC), the finished cement recovery system included a cyclonic collector which removed approximately 90 percent of the 450 tons per hour of material swept from the finish mill and a baghouse dust collector that recovered the remaining 10 percent of product; or approximately 45 tons per hour of product. The 450 tons per hour is comprised of 138 tons per hour of finished cement and 312 tons per hour of over-sized material that is recycled back to the finish mill. The airflow rate through the baghouse was approximately 40,000 ACFM at a temperature of 230°F and a moisture content of approximately 10 percent (27,000 dscfm). The BACT limits for PM and PM10 established for this baghouse were concentration limits of 0.01 and 0.007 grains per dry standard cubic foot for PM and PM10, respectively. These limits were consistent with BACT limits that had been permitted and achieved at other Polysius designed plants in Florida.

In contrast to the original design, the as-built plant has a vertical roller mill with a production capacity of 240 tons per hour of finished cement. This product is recovered entirely in a baghouse dust collector designed for an airflow rate of approximately 270,000 actual cubic feet per minute at a temperature of 230°F and a moisture content of approximately five percent (200,000 dscfm). The baghouse has 3,300 singed acrylic bags, each 14 feet long and 6 inches in diameter. The BACT limits for PM and PM10 for the as-built baghouse were carried over from the original permit and remain at 0.01 and 0.007 grains per dry standard cubic foot for PM and PM10, respectively. These concentration limits are not appropriate for a baghouse the size of the Finish Mill No. 2 product recovery baghouse and a baghouse with an inlet dust loading of approximately 240 tons per hour.

As a point of comparison, the main baghouse used to control PM/PM10 emissions from the kiln/raw mill/cooler of the as-built plant has a design airflow rate of 330,000 ACFM at a temperature of 260°F and a moisture content of approximately 10 percent (220,000 dscfm). The dust loading to this baghouse is approximately 16 tons per hour (compared with 240 tons per hour of dust entering the finish mill baghouse).

With the main baghouse, the dust loading to the baghouse is approximately 16 tons per hour and the BACT emission limits for PM/PM10 are 0.136 and 0.118 pounds per ton of preheater feed, respectively; or 28.8 and 25.0 pounds per hour at the permitted preheater feed rate of 206.3 tons per hour. The required baghouse efficiency to meet these emission limits is 99.91 percent and the equivalent PM/PM10 concentrations in the

discharged gas stream (based on a flow of 220,000 dscfm) are 0.015 and 0.013 grains per dry standard cubic foot, respectively.

The finish mill product recovery baghouse in comparison is required to reduce an inlet dust loading of 240 tons per hour to PM/PM10 emission rates of 8.57 and 6.00 pounds per hour; emission rates corresponding to the BACT PM/PM10 limits of 0.01 and 0.007 grains per dry standard cubic foot. This means that the baghouse must have a collection efficiency of 99.998 percent to meet the PM/PM10 emission limits

Again, comparing the kiln and finish mill baghouses, the main baghouse has a flow of approximately 220,000 dry standard cubic feet per minute, an inlet dust loading of 16 tons per hour, a required efficiency of 99.91 percent and equivalent PM/PM10 concentration limits of 0.015 and 0.013 grains per dry standard cubic foot. The finish mill baghouse on the other hand, has a flow of approximately 200,000 dry standard cubic feet per minute and an inlet dust loading of 240 tons per hour. The efficiency required of this baghouse is 99.998 percent and the BACT PM/PM10 concentration limits are 0.01 and 0.007 grains per dry standard cubic foot (a PM10 limit approximately half the concentration limit required of the main baghouse). Clearly, the PM/PM10 BACT emission limits for the finish mill baghouse are not consistent with the BACT limits for the kiln baghouse, and are not appropriate.

Proposed Finish Mill PM/PM10 Emission Limits - The BACT established PM/PM10 limits in Permit 0530021-018-AC (PSD-FL-351C) are concentration limits that were carried over from BACT limits in the original plant permit; Permit 0530021-009-AC

(PSD-FL-351). These limits are 0.01 and 0.007 grains per dry standard cubic foot for PM and PM10, respectively. Based on a stack gas flow rate established for the finish mill in Permit 0530021-018-AC (100,000 dscfm), the corresponding Permit 0530021-018-AC mass emission limits are 8.57 pounds per hour and 37.5 tons per year for PM and 6.0 pounds per hour and 26.3 tons per year for PM10. The annual limits assumed 8760 hours per year of finish mill operation.

To establish reasonable PM/PM10 emissions for the finish mill going forward, it is proposed to retain the concentration equivalent BACT PM/PM10 limits, and to restate these limits in terms of feed to the finish mill. This concept is analogous to relating the PM/PM10 emission limits for the kiln/raw mill/cooler to the preheater feed rate.

Following this approach, hourly PM/PM10 emission limits are calculated based on the 0.01/0.007 gr/dscf concentration limits and a finish mill stack gas discharge rate of 80,000 dry standard cubic feet per minute (dscfm); a reduction from the flow of 100,000 dscfm used in permit -018-AC. This reduced flow rate is based on a maximum observed flow rate during test periods of ~63,000 dscfm and a margin of about 25 percent. The resulting PM/PM10 mass emission limits are 6.86/4.80 pounds per hour of PM/PM10. If these mass limits are divided by the permitted hourly cement production rate of 240 tons per hour, a PM emission limit of 0.029 pounds per ton of finish mill feed and a PM10 limit of 0.020 pounds per ton of finish mill feed are derived.

The proposed PM/PM10 emission limits of 6.86/4.80 pounds per ton of finish mill feed are equal to the BACT concentration limits established by Permits 0530021-009 and 018-

AC for PM/PM10 of 0.01/0.007 gr/dscf at a finish mill feed rate of 240 tons per hour and a stack gas discharge rate of 80,000 dry standard cubic feet per minute. Further, the limits are more stringent than the limits for the kiln/raw mill/clinker cooler baghouse even though the operating conditions of the finish mill baghouse are considerable more severe. The proposed PM/PM10 limits are summarized in Table 6 along with the originally permitted and as-built limits and, for comparative purposes, the PM/PM10 limits for the kiln/raw mill/cooler baghouse.

In summary, the size of the finish mill baghouse is comparable to the size of the kiln/raw mill/clinker cooler baghouse. The dust loading to the finish mill baghouse however is approximately 15 times greater than the dust loading to the kiln/raw mill/clinker cooler baghouse (240 tons per hour vs. 16 tons per hour). Even with these differences, the proposed PM/PM10 emission limits for the finish mill baghouse are more restrictive than the BACT emission limits for the kiln/raw mill/clinker cooler baghouse (based both on a comparison of equivalent stack gas PM/PM10 concentration limits and on a comparison of mass PM/PM10 emissions per ton of feed). Additionally, the proposed limits are identical to the BACT concentration limits originally established for PM/PM10 emissions from the finish mill. The proposed limits therefore should be considered reasonable and acceptable as restated BACT based limits for PM/PM10 emissions from the finish mill.

REGULATORY CLASSIFICATION

The facility is classified as a Major or Title V Source of air pollution because emissions of at least one regulated air pollutant exceed 100 tons per year.

The facility is within an industry included in the list of the 28 Major Facility Categories (Rule 62-210.200, F.A.C.). Because emissions are greater than 100 tons per year for at least one criteria pollutant, the facility is also a Major Facility with respect to Rule 62-212-400, *Prevention of Significant Deterioration (PSD)*.

The original Line No. 2 project was subject to the provisions of Rule 62-212.400, F.A.C., *Prevention of Significant Deterioration (PSD)*, because it was a modification to an existing facility. The current project is not subject to the Rule as the project is not classified as a modification (Rule 62-210.200, F.A.C.).

The Department has determined this facility is major source of hazardous air pollutants (HAPs) and is therefore subject to 40 CFR 63, Subpart LLL, *National Emissions Standard for Portland Cement Manufacturing (Subpart LLL)*. As such, Line No. 2 is currently subject to Subpart LLL promulgated December 6, 2006, and is considered by the Department to be a *New Source* under the Subpart as it is the position of the Department that construction on Line No. 2 commenced after December 2, 2005. The rate increase proposed herein will not alter this classification or the applicability of this Subpart. Line No. 2 is also subject to Subpart LLL promulgated October 10, 2010 and will be an *Existing Source* under this Subpart when it becomes effective in 2013.

The emissions units included in this project are subject to regulation under the New Source Performance Standards (NSPS), 40 CFR 60 Subpart A, *General Provisions*, Subpart F, *Standards of Performance for Portland Cement Plants*, and Subpart Y

Standards of Performance for Coal Preparation Plants. The amendments to the NSPS published in October, 2010 will not affect this project.

The Emission Units of Line No. 2 are also subject to the requirements of the state rules, particularly Rule 62-212.400, F.A.C., *Prevention of Significant Deterioration*. Some emission units are subject to Rule 62-296.407, F.A.C., *Portland Cement Plants*. Additionally, the plant is subject to the test methods of 40 CFR 60, Appendix A, *Test Methods*; 40 CFR 63, Appendix A, *Test Methods*; 40 CFR 61, Appendix M, *Recommended Test Methods for State Implementation Plans*; and 40 CFR 61, Appendix B, *Test Methods*.

BACT DETERMINATIONS

Permit -009-AC included BACT emission limits for PM/PM₁₀, SO₂, NO_x, CO and VOC. These same limits were carried over into Permit -018-AC and equivalent or more stringent limits are proposed for the current project (See Table 1 for a summary of currently permitted and proposed emission limits).

PM/PM₁₀ – PM/PM₁₀ emissions from the kiln/raw mill/clinker cooler baghouse (Kiln Baghouse) were limited by BACT to 0.136/0.118 pounds per ton of dry preheater feed and 0.23/0.20 pounds per ton of clinker. These emission limits are equivalent at a clinker:preheater feed ratio of about 0.60. As the clinker production rate increase proposed for this project is 25 percent (from 2,800 tons per day to 3,500 tons per day), the PM/PM₁₀ emission rates will be reduced by 25 percent; resulting in no net change in permitted PM/PM₁₀ emissions. The PM/PM₁₀ emission limits proposed for this project

are 0.112/0.097 pounds per ton of preheater feed and 0.185/0.160 pounds per ton of clinker.

The corresponding mass PM/PM₁₀ emission rates both as currently permitted and as proposed for this project are 28.8/25.0 pounds per hour and 117.6/102.3 tons per year.

Compliance test data from as recent as February, 2011 has demonstrated that the PM/PM₁₀ emission limit proposed for this project can be achieved by the kiln baghouse.

With the other Emission Units associated with Line No. 2 (EU-044 through EU-062, excluding the finish mill [EU-052]), the BACT emission limits for PM/PM₁₀ established by Permit -009-AC were concentration limits. These limits were 0.01 grains per dry standard cubic foot for PM and 0.007 grains per dry standard cubic foot for PM₁₀. These emission limits, and the corresponding mass emission limits, will remain unchanged for this project. As previously stated, the concentration limits will remain unchanged, the corresponding mass emission limits will remain unchanged as there will be no change or modification to any of the dust collector ID fans and the permitted hours of operation will remain unchanged.

With the finish mill (EU-052), the PM/PM₁₀ emissions will decrease on both an hourly and annual basis as a result of a proposed reformatting of these emission limits. The PM/PM₁₀ emission limits for the finish mill are addressed in an earlier Section.

Fugitive emissions from raw materials handling and conveying will be minimized by inherent moisture and by the application of water as needed for the suppression of unconfined emissions of PM. Paved and unpaved roads will be sprayed by water truck and/or water sprays. Paved roads will be cleaned by vacuum sweeper truck as required to prevent the accumulation of unconfined PM and the emissions of such PM. Material stockpiles will be managed to limit PM emissions generated by wind erosion.

SO₂ – The permitted mass emission limits for SO₂ for the kiln will remain unchanged at 28.8 pounds per hour and 117.6 tons per year. To compensate for the increased kiln throughput, the SO₂ emission factor will be reduced from 0.23 pounds per ton of clinker to 0.185 pounds per ton of clinker. Compliance test data from February, 2011 demonstrated that the proposed SO₂ emission factor is readily achievable.

NO_x – The mass NO_x emission limits for the kiln system will remain unchanged at 243.8 pounds per hour and 996.7 tons per year. To compensate for the increased kiln throughput, the NO_x emission factor will be reduced from 1.95 pounds per ton of clinker to 1.56 pounds per ton of clinker.

As NO_x emissions from the kiln system are controlled with SNCR, the proposed NO_x emission factor of 1.56 pounds per ton of clinker can be achieved by increasing the ammonia:NO_x molar ratio as necessary and/or by being more aggressive with staged combustion in the precalciner.

CO – The mass emission limits for CO for the kiln will remain unchanged at 450.0 pounds per hour and 1840 tons per year. To compensate for the increased kiln throughput, the CO emission factor will be reduced from 3.6 pounds per ton of clinker to 2.88 pounds per ton of clinker. CO emissions from the kiln system are controlled by combustion practices and more specifically by controlling the excess oxygen at the back end of the kiln. The oxygen levels at the back of the kiln can be increased as necessary to achieve the CO emission limit and any excess NO_x emissions generated by the increased oxygen can be compensated for with the SNCR system.

VOC- The mass VOC emission limits for the kiln system will remain unchanged at 15.0 pounds per hour and 61.3 tons per year. To compensate for the increased kiln throughput, the VOC emission factor will be reduced from 0.12 pounds per ton of clinker to 0.096 pounds per ton of clinker. As VOC emissions from the kiln system are a function of organics in the preheater feed, VOC emissions at the increased production rate can be controlled by raw materials selection.

Mercury – Mercury mass emissions for the kiln will remain unchanged at 122 pounds per year. This mass emission limit was established by Permit -009-AC and is demonstrated by material balance. In addition, the mercury emissions from the kiln system are limited by 40 CFR 63, Subpart LLL (effective December, 2006) to 41 micrograms per dry standard cubic meter at 7 percent oxygen; both with the raw mill operating and the raw mill down. This concentration limit will remain in effect until 2013 at which time Line No. 2 will be subject to Subpart LLL effective October, 2010.

The concentration limit of 41 micrograms per dry standard cubic meter and the mass emission limit of 122 pounds per year can be achieved at the increased clinker production level by raw material selection and by CKD management.

Visible Emissions – The visible emission limit for the kiln system will remain unchanged at 10 percent. This limit was established as BACT by Permit -009-AC.

Finish Mill Air Heater - The finish mill for Line No. 2 has an associated air heater that will operate up to 2,500 hours per year. This operating factor will remain unchanged from the currently permitted operating factor. The air heater is rated at 45 mmBTU per hour and is fired with No. 2 fuel oil with a sulfur content of 0.05 percent. As the heat input to the air heater, the fuel to the air heater and the hours of operation of the air heater will not change, the permitted emissions from the air heater will likewise remain unchanged.

Sulfur dioxide emissions will remain at 2.1 pounds per hour and 2.63 tons per year and will be limited by No. 2 fuel oil use and the sulfur content of the No. 2 fuel oil. The NO_x and CO emissions will be reduced to compensate for an error found in the application for Permit -018-AC. In Permit -018-AC, permitted mass NO_x emissions were limited to 30.9 pounds per hour and 38.7 tons per year. The corrected mass NO_x emission rates proposed for this project is 5.40 pounds per hour and 6.8 tons per year (at 2500 hours per year).

Similarly, the CO mass emission limits in Permit -018-AC were 17.8 pounds per hour and 22.3 tons per year. These emission limits will be corrected to 1.5 pounds per hour and 1.9 tons per year.

VOC emissions were not limited by Permit -018-AC and it is proposed that they not be limited by this project. VOC emissions will be 0.3 pounds per hour and 0.4 tons per year.

Further, as the SO₂, NO_x, CO and VOC mass emissions from the finish mill air heater are all less than 6 pounds per hour and 7 tons per year, it is requested that no compliance demonstration be required for these pollutants.

NEW SOURCE REVIEW APPLICABILITY

New Source Review requires that the construction of new facilities or modifications to existing facilities be evaluated to determine if there will be a significant net increase in the emission rate of any regulated air pollutant. Significant emission rate increases are defined as:

Pollutant	Significant Emission Rate Increase
PM	25
PM10	15
PM2.5	10
SO2	40
VOC	40
NOX	40
CO	100

As Line No. 2 is classified as an existing facility, it must be determined if the proposed production rate increase qualifies as a *modification*. Rule 62-210.200(199), F.A.C., defines *Modification* as:

Any physical change in, or change in the method of operation of, or additional to a facility which would result in an increase to the actual emissions of any air pollutant subject to regulation under the Act including any not previously emitted, from any emission unit or facility.

As described in previous sections, there are no physical changes associated with the proposed projects that would trigger the projects being defined as a modification. Furthermore, there will be no changes in the method of operation from a physical or operational standpoint. However, the increased throughput rate of raw materials could be construed to be a change in “the method of operation.”

If this determination is made by the reviewing agency, baseline actual emissions must be compared with projected actual emissions to determine if there is a significant emission rate increase in any regulated pollutant.

To evaluate baseline emissions, CEMEX has summarized monthly Line No. 2 operating times, production rates and emission rates. These data are summarized in Table 4 and cover the period from start up of Line No. 2 (November 29, 2008) through February, 2011. The period of operation during which certified Continuous Emission Monitoring data are available is the period March, 2009-February, 2011; a 24-month period.

In reviewing the data, it will be noted that the operation of the kiln was quite abnormal; brought on primarily by the economic climate that prevailed during the period 2009-2010. During this period of operation, the monthly clinker production ranged from less than 5 percent of permitted capacity to almost 99 percent of permitted capacity. The average clinker production rate for the period of record was approximately 51 percent.

With this limited and irregular operating schedule, it is virtually impossible to establish representative baseline actual emissions as defined by Rule 62-210.200(36), F.A.C.:

(b) for any existing emission unit..., baseline actual emissions means the average rate, in tons per year, at which the emission unit actually emitted the pollutant during any consecutive 24-month period selected by the owner or operator within the 10-year period immediately preceding the date a complete permit application is received by the Department.

As noted and summarized in Table 4, there is only one 24-month period that Line No. 2 operated and because of economic conditions, the operations during this period are not representative of kiln operations in a normal economy.

In spite of the abnormal operations, it will be noted from the data in Table 4 that there were monthly periods when clinker production rates (when annualized) were within 91-99 percent of the permitted annual clinker production rate. It will also be noted that there were monthly periods when the regulated pollutant emission factors (pounds of pollutant per ton of clinker) approached the permitted emission factors. Thus, if a representative set of operating/emission data were available for an extended period of time, it is reasonable to expect that the baseline emissions that Line No. 2 was capable of operating at would approach permitted emissions.

When establishing projected actual emissions, there are options presented by Rule 62-210.200(244), F.A.C. including:

(d) In lieu of using the methods set out in paragraphs (a) through (c) above, [the Department] may be directed by the owner or the operator to use the emission unit's potential to emit in tons per year [as projected actual emissions].

In other words, the Department has the option, in circumstances such as those encountered by CEMEX with Line No. 2, to use the permitted emission limits for Line No. 2 as the projected actual emissions.

In discussing baseline emissions and projected actual emissions with the Department and considering the abnormal operating record of Line No. 2, the Department suggested using the Line No. 2 potential to emit as projected actual emissions. This being the case, the data summarized in Table 2 demonstrate that there will be a net emission decrease for all regulated pollutants as a result of the projects proposed herein. As such, the proposed projects are not subject to New Source Review.

And, as the projects are not subject to New Source Review, the projects are likewise not subject to Greenhouse Gas (GHG) permitting in accordance with the EPA "Tailoring Rule" published June 3, 2010. This Rule states that projects that are not otherwise subject to New Source Review will not be subject to GHG permitting if the project is permitted prior to June 30, 2011. This was confirmed during a telephone conversation between EPA Region 4, FDEP Tallahassee and CEMEX representatives on March 23, 2011.

SUMMARY

By this application, CEMEX is requesting authorization for three projects at their Brooksville South cement plant. The projects are:

- A production rate increase for Line No. 2 (affecting EUs – 044-62);

- A restatement of PM/PM₁₀ emission limits for the Line No. 2 Finish Mill (EU – 052) ; and
- The reclassification of the Line No. 1 clinker receiving/handling system (EU - 008) as an Insignificant Activity.

As Line No. 2 has operated just over 24 months, the Department, in accordance with Rule 62-210.200(244), F.A.C., has agreed that the Line No. 2 Projected Actual Emissions can best be represented by the Line's potential to emit; i.e., the currently permitted emission limits for the Emission Units associated with Line No. 2. As a result, and as summarized in Table 2, the three proposed projects will be accomplished with a decrease in the annual emission rates of regulated pollutants; thus, the projects are not subject to New Source Review. And, as the projects are not subject to New Source Review, the projects are not subject to Greenhouse Gas permitting under conditions of the Tailoring Rule.

Table 1

CEMEX Construction Materials Florida, LLC Brooksville South Cement Plant
Line No. 2 - Current and Proposed Emission Limits

Emission Unit No.	Equipment No.	Name	Pollutant	Current @ 1,686,300 tpy feed & 1,022,000 tpy clk			Proposed @ 2,107,875 tpy feed & 1,277,500 tpy clk		
				(Emission Factor)	(lb/hr)	(tpy)	(Emission Factor)	(lb/hr)	(tpy)
EU 044	331.BF300	Kiln/Raw Mill/Clinker Cooler	PM	0.136 (lb/ton feed)	28.8	117.6	0.112 (lb/ton feed)	28.8	117.6
				0.230 (lb/ton clk)			0.185 (lb/ton clk)		
			PM10	0.118 (lb/ton feed)	25.0	102.3	0.097 (lb/ton feed)	25.0	102.3
				0.200 (lb/ton clk)			0.160 (lb/ton clk)		
			NOx	1.95 (lb/ton clk)	243.8	996.7	1.56 (lb/ton clk)	243.8	996.7
			SO2	0.23 (lb/ton clk)	28.8	117.6	0.185 (lb/ton clk)	28.8	117.6
			CO	3.60 (lb/ton clk)	450.0	1840	2.88 (lb/ton clk)	450.0	1840
			VOC/THC	0.12 (lb/ton clk)	15.0	61.3	0.096 (lb/ton clk)	15.0	61.3
			Hg	41 (ug/dscm @ 7% O2)	41 ug/dscm @ 7% O2		41 (ppm@ 7% O2)	41 ug/dscm @ 7% O2	
VE	122 (lb/yr)	112 lb/yr		122 (lb/yr)	112 lb/yr				
			10 (%)			10 (%)			
EU 045	331.BF640	Filter Dust Bin	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	0.60/0.42	2.63/1.84	0.01/0.007/5 (gr/dscf)(%)	0.60/0.42	2.63/1.84
	311.LS609	Filter Dust Bin Loadout Spout	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
EU 046	341.BF400	Blend Silo - Input	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	0.55/0.39	2.41/1.71	0.01/0.007/5 (gr/dscf)(%)	0.55/0.39	2.41/1.71
EU 047	341.BF410	Blend Silo Discharge	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	2.64/1.84	11.6/8.1	0.01/0.007/5 (gr/dscf)(%)	2.64/1.84	11.6/8.1
	351.BF410	Kiln Feed Bin	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
	351.BF420	Kiln Feed Transport	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
EU 048	471.BF110	Clinker Transport	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	0.22/0.15	0.96/0.67	0.01/0.007/5 (gr/dscf)(%)	0.22/0.15	0.96/0.67
EU 050	481.BF155	Clinker Storage Silo Discharge 1	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	0.99/0.70	4.34/3.10	0.01/0.007/5 (gr/dscf)(%)	0.99/0.70	4.34/3.10
	481.BF165	Clinker Storage Silo Discharge 2	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
	471.BF120	Clinker Silo	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
EU 051	511.BF650	Finish Mill Additives Belt	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	0.57/0.40	2.50/1.75	0.01/0.007/5 (gr/dscf)(%)	0.57/0.40	2.14/1.50
EU 052	531.BF500	Finish Mill	PM	8.57 (lb/hr)	8.57	37.7	0.029 (lb/ton feed)	6.86	25.70
			PM10	6.00 (lb/hr)	6.00	26.3	0.020 (lb/ton feed)	4.80	18.00
			NOx	30.9 (lb/hr)	30.9	38.7	5.40 (lb/hr)	5.40	6.80
			SO2	2.10 (lb/hr)	2.10	2.63	2.10 (lb/hr)	2.10	2.63
			CO	17.8 (lb/hr)	17.8	22.3	1.50 (lb/hr)	1.50	1.88
			VOC/THC	2.38 (lb/hr)	2.38	2.97	0.30 (lb/hr)	0.30	0.40
			VE	5 (%)	5%		10 (%)	10%	
			EU 054	531.BF020	Finish Mill Bucket Elevator	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	0.60/0.42	2.30/1.60
EU 057	531.BF400	Finish Mill Cement Transport	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	0.44/0.31	1.70/1.20	0.01/0.007/5 (gr/dscf)(%)	0.44/0.31	1.70/1.20
	531.BF290	Finish Mill Rejects Transport	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
EU 058	612.BF005	Cement Silo 5	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	0.95/0.65	4.20/2.90	0.01/0.007/5 (gr/dscf)(%)	0.95/0.65	4.20/2.90
	612.BF620	Cement Silo 5 Loading Bin	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
	622.LS140	Cement Silo 5 Loadout Spout N	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
	622.LS160	Cement Silo 5 Loadout Spout S	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
EU 059	611.BF005	Multi-Cell Cement Silo	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	0.78/0.54	3.40/2.40	0.01/0.007/5 (gr/dscf)(%)	0.78/0.54	3.40/2.40
	611.BF045	Multi Cell Cement Silo Alleviator	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
	611.BF610	Multi Cell Loadout Transport	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
	611.LS760	Multi-Cell Silo Loadout	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)			0.01/0.007/5 (gr/dscf)(%)		
EU 060	461.BF400	Coal Mill	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	1.96/1.37	8.60/6.00	0.01/0.007/5 (gr/dscf)(%)	1.96/1.37	8.60/6.00
EU 061	481.BF560	Fine Coal Bin	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	0.03/0.02	0.13/0.09	0.01/0.007/5 (gr/dscf)(%)	0.03/0.02	0.13/0.09
EU 062	641.bf150	Packing Plant	PM/PM10/VE	0.01/0.007/5 (gr/dscf)(%)	1.17/0.82	5.10/3.60	0.01/0.007/5 (gr/dscf)(%)	1.17/0.82	5.10/3.60

TABLE 2

**CEMEX Construction Materials Florida, LLC Brooksville South Cement Plant
Line No. 2 - Proposed Emissions and Hours of Operation and Annual Emission Change Summary**

EU	Proposed									
	PM			PM10			SO2	NOx	CO	VOC
	(lb/hr)	(hr/yr)	(tpy)	(lb/hr)	(hr/yr)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)
44	28.80	8760	117.6	25.00	8760	102.3	117.6	996.7	1840.0	61.3
45	0.60	8760	2.6	0.42	8760	1.8				
46	0.55	8760	2.4	0.39	8760	1.7				
47	2.64	8760	11.6	1.84	8760	8.1				
48	0.22	8760	1.0	0.15	8760	0.7				
50	0.99	7500	4.3	0.70	7500	3.1				
51	0.57	8760	2.1	0.40	7500	1.5				
52	6.86	7500	25.7	4.80	7500	18.0	2.6	6.8	1.9	0.4
54	0.60	7500	2.3	0.42	7500	1.6				
57	0.44	7500	1.7	0.31	7500	1.2				
58	0.95	8760	4.2	0.65	8760	2.9				
59	0.78	8760	3.4	0.54	8760	2.4				
60	1.96	8760	8.6	1.37	8760	6.0				
61	0.03	8760	0.1	0.02	8760	0.1				
62	1.17	8760	5.1	0.82	8760	3.6				
Total Proposed			192.7			154.8	120.2	1003.5	1841.9	61.7
Total from Permit 0530021-018-AC			214.1			171.1	128.7	1106.6	1993.0	68.7
Change in Permitted Emissions			-21.4			-16.3	-8.5	-103.1	-151.1	-7.0

TABLE 3

**CEMEX Construction Materials Florida, LLC Brooksville South Cement Plant
Line No. 2 - Hourly and Annual Throughput Rates and Operating Times**

Emission Unit No.	Equipment No.	Name	Current Rates			Proposed Rated		
			Hourly	Annual	Operating Factor	Hourly	Annual	Operating Factor
			(tph)	(tpy)	(hr/yr)	(tph)	(tpy)	(hr/yr)
EU 044	331.BF300	Main Baghouse Throughput	30	262,800	8,760	37.5	328,500	8,760
EU 045	331.BF640	Filter Dust Bin	30	262,800	8,760	37.5	328,500	8,760
	311.LS609	Filter Dust Bin Loadout Spout	80	80,000	8,760	80	80,000	8,760
EU 046	341.BF400	Blend Silo - Input	300	2,628,000	8,760	300	2,628,000	8,760
EU 047	341.BF410	Blend Silo Discharge	241	2,111,160	8,760	258	2,107,875	8,760
	351.BF410	Kiln Feed Bin						
	351.BF420	Kiln Feed Transport						
EU 048	471.BF110	Clinker Transport	125	1,095,000	8,760	156	1,277,500	8,760
EU 050	481.BF155	Clinker Storage Silo Discharge 1	211	1,582,500	7,500	215	1,612,500	7,500
	481.BF165	Clinker Storage Silo Discharge 2	211	1,582,500	7,500	215	1,612,500	7,500
	471.BF120	Clinker Silo	125	1,095,000	8,760	156	1,277,500	8,760
EU 051	511.BF650	Finish Mill Additives Belt	127	953,250	7,500	127	953,250	7,500
EU 052	531.BF500	Finish Mill	240	1,800,000	7,500	240	1,800,000	7,500
EU 054	531.BF020	Finish Mill Bucket Elevator	106	795,000	7,500	106	795,000	7,500
EU 057	531.BF400	Finish Mill Cement Transport	240	1,800,000	7,500	240	1,800,000	7,500
	531.BF290	Finish Mill Rejects Transport	106	795,000		106	795,000	
EU 058	612.BF005	Cement Silo 5	240	2,102,400	8,760	240	2,102,400	8,760
	612.BF620	Cement Silo 5 Loading Bin	625	5,475,000	8,760	625	5,475,000	
	622.LS140	Cement Silo 5 Loadout Spout N	625	5,475,000	8,760	625	5,475,000	
	622.LS160	Cement Silo 5 Loadout Spout S	625	5,475,000	8,760	625	5,475,000	
EU 059	611.BF005	Multi-Cell Cement Silo	240	2,102,400	8,760	240	2,102,400	8,760
	611.BF045	Multi Cell Cement Silo Alleviator	240	2,102,400	8,760	240	2,102,400	8,760
	611.BF610	Multi Cell Loadout Transport	625	5,475,000	8,760	625	5,475,000	8,760
	611.LS760	Multi-Cell Silo Loadout	625	625,000	1,000	625	625,000	1,000
EU 060	461.BF400	Coal Mill	20	175,200	8,760	20.0	175,200	8,760
EU 061	461.BF560	Fine Coal Bin	20	175,200	8,760	20.0	175,200	8,760
EU 062	641.bf150	Packing Plant	200	1,752,000	8,760	200	1,752,000	8,760

TABLE 4

**CEMEX Construction Materials Florida, LLC Brooksville South Cement Plant
Kiln No. 2 - Monthly Emission & Process Totals**

Month	Kiln Down (hr/mo)	Kiln Run (hr/mo)	Total (hr/mo)	Monthly Production and Emissions						Emission Factors						Annualized Clinker (tpy)	Fraction of Permitted
				(Total Tons)						(lb/ton clk)							
				PH Feed	Clinker Prod.	NOx	SO ₂	CO	THC	NOx 30-day rolling	SO ₂	CO	CO ₂	THC	PM		
Permit limits						996.7 (tpy)	117.6 (tpy)	1840 (tpy)	61.3 (tpy)	1.95 (lb/ton clk)	0.23 (lb/ton clk)	3.6 (lb/ton clk)		0.12 (lb/ton clk)	0.23 (lb/ton clk)	1,022,000 (tpy)	
Start-up 11/29/2008																	
2008																	
November	701	19	720	7871	370	--	--	--	--								
December	512	232	744	41637	22841	26.94	0.05	9.43	1.20	2.38	0.005	0.83		0.105		274,092	26.8%
2009																	
January	406	338	744	60,792	36,844	45.76	0.16	14.41	3.18	2.49	0.009	0.78				442,124	43.3%
February	290	382	672	69,886	42,355	55.15	0.35	14.44	1.00	2.69	0.016	0.68		0.047	0.16	508,261	49.7%
March	415	329	744	62,128	37,653	42.92	0.24	18.14	1.19	2.48	0.013	0.96		0.063	0.05	451,840	44.2%
April	663	57	720	10,491	6,358	5.82	0.03	4.27	0.25	2.50	0.010	1.34		0.077		76,298	7.5%
May	46	698	744	128,478	77,865	69.64	0.42	43.94	1.54	1.78	0.011	1.13		0.040		934,382	91.4%
June	572	148	720	26,430	16,018	14.09	0.03	9.24	0.35	1.78	0.004	1.15		0.044		192,215	18.8%
July	507	237	744	39,368	23,859	22.86	0.06	14.69	0.43	1.82	0.005	1.23		0.036		286,310	28.0%
August	489	255	744	45,317	27,465	26.02	0.04	14.06	0.65	1.89	0.003	1.02		0.047		329,580	32.2%
September	55	665	720	117,034	70,930	65.52	0.03	31.61	1.43	1.84	0.001	0.89		0.040		851,154	83.3%
October	175	569	744	100,132	60,686	56.63	0.16	30.88	1.47	1.80	0.005	1.02		0.048		728,233	71.3%
November	470	251	720	45,858	27,793	25.33	0.06	11.53	0.69	1.80	0.004	0.83		0.050		333,514	32.6%
December	400	344	744	60,479	36,654	32.91	0.04	15.53	0.52	1.82	0.002	0.85		0.028	0.115	439,847	43.0%
2010																	
January	193.6	550.4	744	100,914	61,160	56.09	0.190	30.06	1.11	1.82	0.006	0.98	1,368.68	0.036		733,920	71.8%
February	229.6	418.5	648	75,815	45,948	43.03	0.103	26.04	1.11	1.88	0.004	1.13	1,385.15	0.048		551,381	54.0%
March	131.9	612.1	744	114,289	69,266	63.33	0.136	49.55	1.95	1.89	0.004	1.43	1,334.35	0.056		831,191	81.3%
April	273.4	446.6	720	82,097	49,756	41.66	0.657	27.08	1.54	1.84	0.026	1.09	1,253.63	0.062		597,066	58.4%
May	425.6	318.5	744	53,816	32,616	29.89	1.025	12.94	0.97	1.69	0.063	0.79	1,341.87	0.059		391,390	38.3%
June	572.7	147.3	720	26,704	16,184	21.93	0.383	5.53	0.48	1.96	0.047	0.68	1,351.54	0.060		194,210	19.0%
July	47.1	696.9	744	124,856	75,670	63.06	0.748	41.16	2.03	1.67	0.020	1.09	1,368.81	0.054		908,040	88.8%
August	398.5	345.5	744	60,095	36,421	30.90	0.099	23.49	1.03	1.54	0.005	1.29	1,358.70	0.057		437,057	42.8%
September	303.6	416.5	720	77,050	46,697	42.70	0.073	27.08	1.53	1.80	0.003	1.16	1,366.82	0.065		560,360	54.8%
October	68.5	675.5	744	128,656	77,974	71.66	0.621	58.45	1.92	1.85	0.016	1.50	1,352.38	0.049		935,683	91.6%
November	684.9	35.2	720	6,625	4,015	3.64	0.040	1.76	0.11	1.85	0.020	0.88	1,352.18	0.055		48,184	4.7%
December	16.1	727.9	744	138,644	84,027	63.21	0.216	94.64	1.50	1.50	0.005	2.25	1,376.89	0.036		1,008,320	98.7%
2011																	
January	467.2	277	744	51,726	31,415	27.56	0.063	14.66	0.55	1.62	0.004	0.93	1,443.72	0.035		376,975	36.9%
February	465.0	207	672	37,074	21,721	16.88	0.144	12.28	0.53	1.67	0.013	1.13	1,490.49	0.049	0.042	260,652	25.5%
March	68.8	531.2	744	96,527	58,811	52.018	0.535	27.427	1.672	1.73	0.018	0.93	1,405.53	0.057		705,733	69.1%

Table 6

Cemex Construction Materials, LLC Brooksville South Cement Plant
Proposed PM/PM10 Emission Limits for Finish Mill No. 2
Permit 0530021-009-AC; Original Permit
Permit 0530021-018-AC; As-built Permit

Permit	BACT Limits		Stack Gas Flow (dscfm)	Operating Time (hr/yr)	Equivalent Mass Limits					
	(grains/dscf)				(lb/hr)		(tons/year)		(lb/ton FM feed)	
	PM	PM10			PM	PM10	PM	PM10	PM	PM10
0530021-009-AC Original Permit	0.01	0.007	27,000	8,760	2.31	1.62	10.1	7.1	0.017	0.012
0530021-018-AC As-built Permit	0.01	0.007	100,000 (200,000)*	8,760	8.57	6.00	37.5	26.3	0.036	0.025
Proposed PM/PM10 Limits	0.01	0.007	80,000 (200,000)*	7,500	6.86	4.80	25.7	18.0	0.029	0.020
Kiln/Raw Mill/Cooler Limits for Comparison	0.015	0.013	220,000	8,760	28.8	25.0	117.6	102.3	0.136	0.118

* - Stack gas flow rate and (flow thru the baghouse)

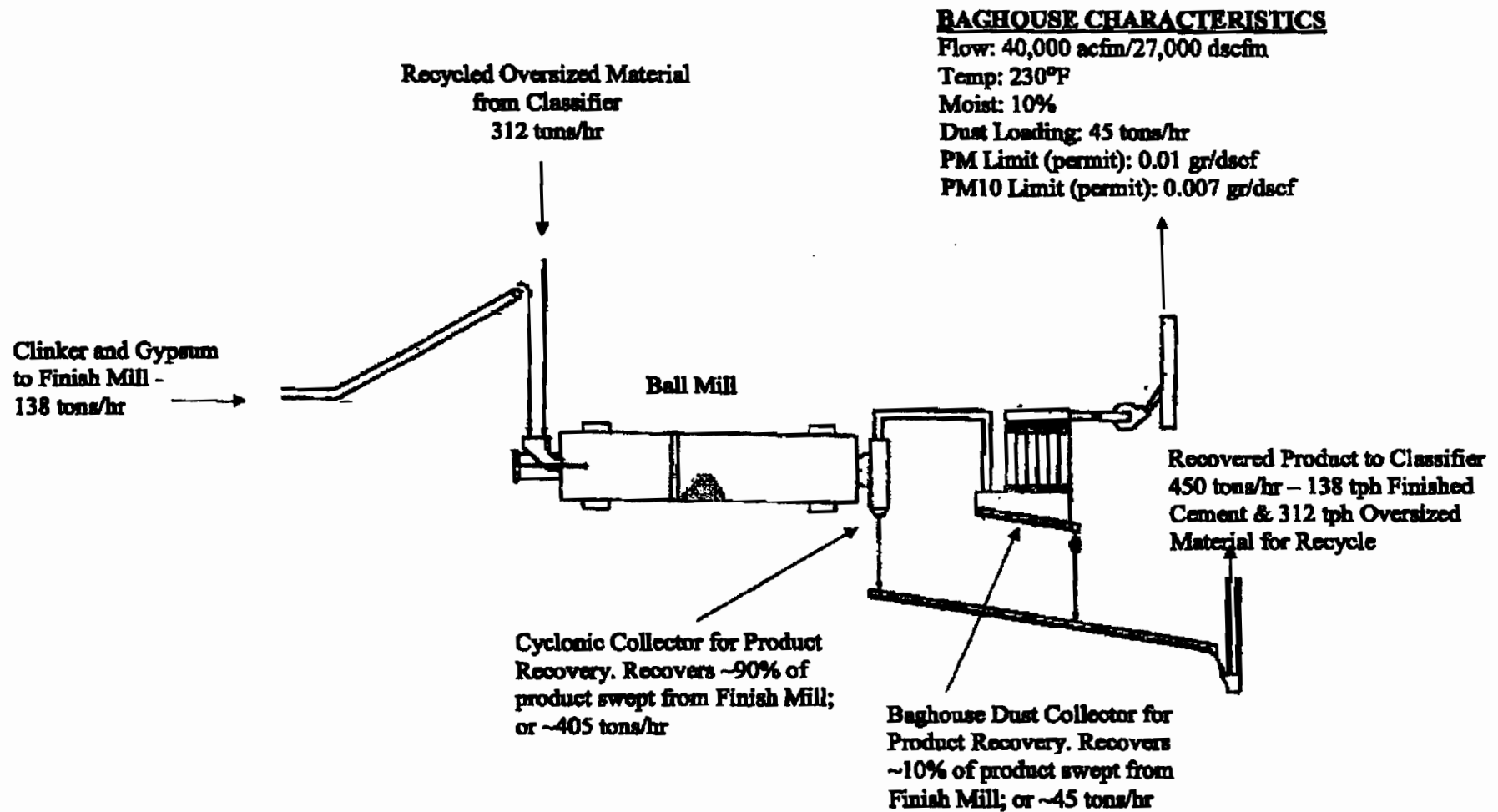


FIGURE 1

Polystus Finish Mill Permitted with Original Plant Design – Permit 0530021-009-AC (PSD-FL-351)
Cement Production Line No. 2
Cemex Construction Materials, LLC – Brooksville South Cement Plant
Brooksville, Florida

BAGHOUSE CHARACTERISTICS

Flow: 270,000 acfm/200,000 dscfm

Temp: 230°F

Moist: 5%

Dust Loading: 240 tons/hr

PM Limit (permit): 0.01 gr/dscf

PM10 Limit (permit): 0.007 gr/dscf

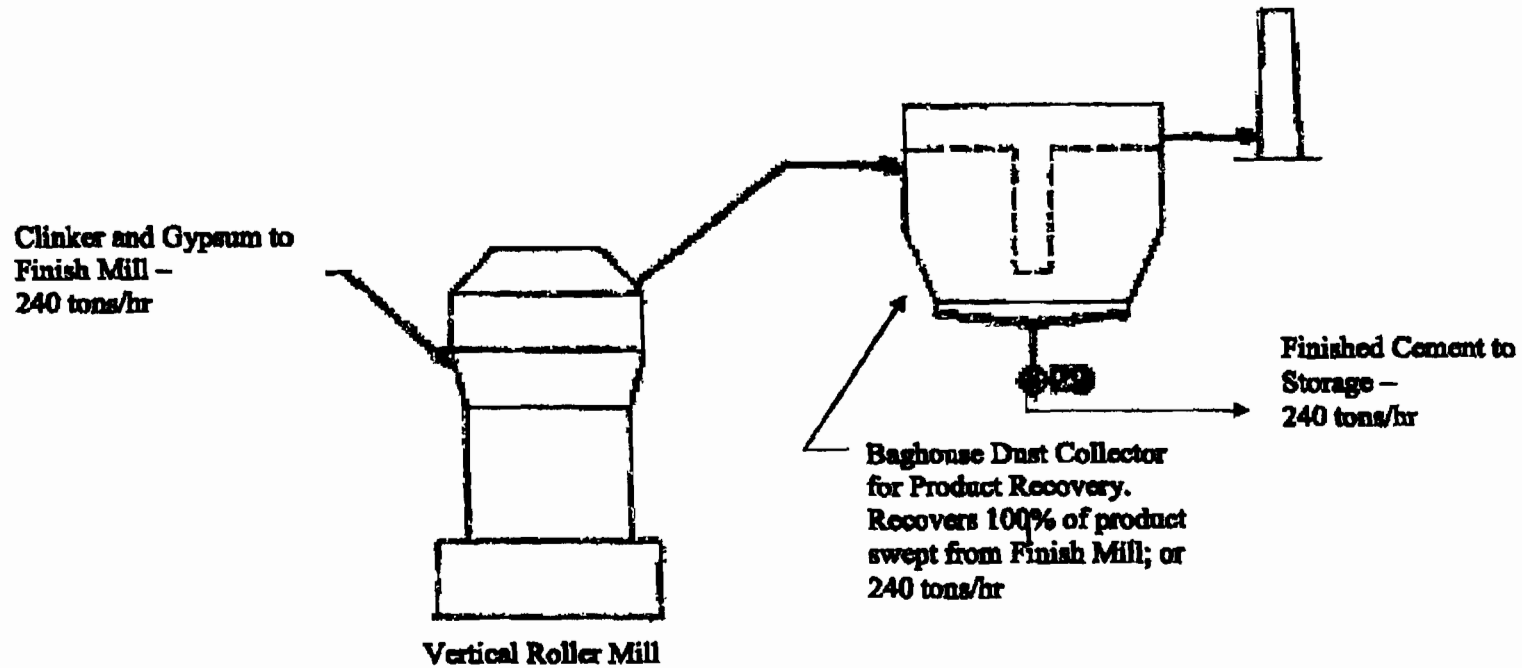


FIGURE 2

FLSmith Finish Mill Permitted with As-built Plant Design – Permit 0530021-018-AC (PSD-FL-351C)

Cement Production Line No. 2

Cemex Construction Materials, LLC – Brooksville South Cement Plant

Brooksville, Florida

Attachment B
Line No. 2 Capacity Assurance



April 13, 2011

Al Linero
Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road, MS 5500
Tallahassee, Florida 32399-2400

Dear Al,

In July, 2005, an Air Construction Permit was issued to Rinker Materials of Florida, Inc/Florida Crushed Stone Company (now CEMEX via acquisition) to construct a second cement manufacturing line (Line 2) at its Brooksville South facility. The Facility Description called for a capacity of 206.3 tons per hour of preheater feed and 125 tons per hour of clinker production, which is equivalent to 3,000 tons per day of clinker production. However, the permit limited clinker production to 2,800 tons per day based on a 24-hour average. While the proprietary equipment suppliers were told to guarantee 2,800 tons per day of clinker, the plant was to be capable of achieving the 3,000 tons per day capacity specified in the Air Construction Permit. As a result, the equipment supplied and installed for Line 2 effectively has a nominal capacity of 3,000 tons per day of clinker.

The proprietary equipment suppliers generally build their own safety factors into the plants they supply to ensure that they can safely meet all performance guarantee limits in order to avoid any potential penalty payments. Therefore, it is generally safe to assume that a cement plant can out-perform its nominal design capacity. This point was demonstrated in CEMEX's Miami plant (Rinker at that time) that was designed and guaranteed as a 2,750 ton per day system when it went into operation in 2000 but was re-permitted for 3,888 tons per day in 2004. I was personally involved in the construction, operation and re-permitting of the Miami facility. The Miami pyro-processing area has been able to sustain over 3,600 tons per day of clinker production.

I was also personally involved in the construction and start-up of the Brooksville South Line 2. The pyro-processing areas of these two plants are both FLS systems with the same basic design. However, in general the Brooksville South Line 2 pyro-processing area is somewhat larger than the one in the CEMEX Miami facility. For example, the kiln in Miami is 4.15 M in diameter by 48 M long compared to the Brooksville South Line 2 kiln which is 4.35 M by 51 M long. Similarly, the kiln ID fan in Miami is 1500 Hp compared to the 1,750 Hp kiln ID fan installed in Brooksville South Line 2.

CEMEX is now applying to increase in the permitted capacity of Brooksville South Line 2 from 2,800 tons per day to 3,500 tons per day. This is equivalent to a preheater feed rate of 240 tph based on the

observed preheater feed to clinker ratio. Based on the results from Miami, the current operations of the Brooksville South Line 2 and the relative size of the two systems, Brooksville South Line 2 should be capable of operating at 3,500 tons per day clinker production. The limitation will be most likely occur in preheater ID fan and Main Baghouse ID fan capacities.

I have also reviewed the design basis of the supporting systems:

- The raw material handling upstream of the raw mill has a design basis of 337 tph. This is more than adequate to support 3,500 tons per day of clinker production.
- The raw mill system was designed for 240 tph (dry basis) of raw meal production with feed moisture of 14%. During performance testing, the raw mill exceeded its design capacity and produced an average of 247 tph (dry basis) for 24 hours. Based on approximately 7% dust loss due to the inherent inefficiency of the top cyclone of the preheater, 240 tph preheater feed will require the raw mill to run just above design capacity for approximately 90% of the hours that the kiln runs, which is achievable. However, during the performance test the raw material moisture was only 12%. During day-to-day operations, the mill has not been able to achieve design production rates when the feed moisture is over 12%, which occurs during periods of heavy rain. The limitation is caused by plugging of the material handling chutes and diverter gate that were designed to split a portion of the wet feed between the flash dryer and the mill inlet. As a result, all feed is sent through the flash dryer, effectively overloading its drying capacity. Therefore, the raw mill will limit clinker production during the rainy season. Some modifications will be needed to the raw material feed system that splits the feed between the flash dryer and the raw mill inlet. The details of these modifications are yet to be engineered but will involve either a different splitting mechanism and revised materials chutes to eliminate plugging or system to split the fine and coarse fractions of the feed.
- The main baghouse dust handling system and gas conditioning tower have adequate reserve to support 3,500 tons per day of clinker production.
- The kiln feed system has a design capacity of 241 tph, which is right at the level needed to support 3,500 tons per day of clinker production. However, observation of this system while running at 192 tph indicates that the system should still have adequate reserve capacity at 240 tph without modification.
- The clinker cooler undergrate fans and cooler vent fan have adequate capacity to support 3,500 tons per day of clinker capacity. Cooler vent gas temperature will increase and there may be a slight increase in clinker exit temperature, but there will not be any negative impacts to the operation as a result. The clinker transport system, which was designed for 208 tph, also has adequate reserve capacity to handle upset conditions at 3,500 tons per day clinker capacity.
- The coal mill, clinker storage, finish mill, cement storage, shipping and packaging systems are all more than capable of supporting 3,500 tons per day of clinker production.

Based on my experience with both the Miami and Brooksville South Line 2 systems and my review of the design of the as-built systems of the Brooksville South Line 2, it is my opinion that Brooksville South Line 2 is capable of producing 3,500 tons per day of clinker during steady-state operations without modification.

Please let me know if you have any questions.

Best regards,



Michael D. Aller

Project Manager – East Region

CEMEX USA

Cc: Jim Daniel – Plant Manager – Brooksville South