

Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

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: 0530	021			
4.	Facility Location				
	Street Address or Other Locator: 10311 Cement Plant Road				
	City: Brooksville Con	unty: He	rnando	Zip Code: 34601	
5.	Relocatable Facility?	(6. Existing	Title V Permitted Facility?	
	Yes X No		X Yes	□ 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 NW 13 th Street		
	City: Gainesville State: Florida Zip Code: 32609		
3.	Application Contact Telephone Numbers		
	Telephone: (352)- 377- 5822 ext. 18 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):

Purpose of Application

This application for air permit is being submitted to obtain: (Check one)
Air Construction Permit
X 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
x 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)
$\begin{bmatrix} x \end{bmatrix}$ 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:
X 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 the repermitting of existing CEMEX Portland cement Kiln No. 1 and Kiln No. 2 as a facility separate from the Central Power and Lime power plant. The two facilities (the cement plant and the power plant) have been permitted as a single facility with Facility ID Number 0530021 since originally permitted in the mid-1980s. Most recently they have operated under Permit No. 0530021-029-AV, effective 12/29/2011. Recently (01/24/2012) FDEP issued Permit 0530380-001-AC to Florida Power Development, LLC (FPD) to convert the power plant to a stand-alone biomass fired power plant. This application is for stand-alone AC/AV permits for the CEMEX Brooksville South Cement Plant consisting of existing Kiln Nos. I and 2 and the associated activities described herein. There will be no cement plant modifications* or changes in emissions as a result of this project.

*Note, a new stack may be constructed for Kiln No. 1 replacing the stack the Kiln previously shared with the power plant.

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
Brooksville S	South Cement Plant Kiln No. 1		
001/D-75	Filter Dust Bin with Baghouse		
002/D-67	Fly Ash/Equilibrium Catalyst Bin with Baghouse		
004/F-14	Raw Meal Transfer with Baghouse		
006/G-12 (A &B)	Two Blend Silos with Baghouse		
007/H-15	Kiln Feed Surge Bin with Baghouse		
008/S-04	Clinker Receiving/Handling System		
009/K-07 & L-03	Clinker Cooler Discharge with Baghouse		
010/L06 to L05 & L07	Clinker Storage Silos with Baghouse		
011/L-08	Gypsum and Limestone Bins with Baghouse		NA
012/M-08	Silo Discharge with Baghouse		
013/N-13	Finish Mill with Baghouse		
014/Q-17	A-side Cement Storage Silos Nos. 1 & 2 Discharge System with Baghouse		
015/Q-15	Cement Storage Silos Nos. 1 & 2 with Baghouse		
019/M-05	Finish Mill feed belt with Baghouse		
020	Cement Kiln-I, In-line Kiln/Raw Mill and Clinker Cooler I with Baghouse		
021/Q-18	B-Side Cement Storage Silos 1,2 & 3 with Discharge system with Baghouse		
Note: EU-017, Iron ore Bin and baghouse was removed from service in 2009			

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
022/Z-15	Cement Storage Silo # 3 with Baghouse		
023	Cement Storage Silo # 4 with Truck Loadout system with Baghouse		NA
024/Z-18	Cement Storage silo and Railcar Loadout system with Baghouses		
Brooksville S	South Cement Plant Kiln Nos. 1 and 2 – Coal Yard	l & Fugitive E	missions
042	Coal Receiving, Handling and Transfer System (Fugitives)		NIA
	Facility wide Fugitive Emissions		
Brooksville S	South Cement Plant Kiln No. 2		
044	Kiln No. 2/Preheater/Precalciner/Clinker Cooler/Air Heater		
045	Filter Dust		
046	Raw Meal Transport		
047	Kiln Feed Transport		
048	Clinker Transport		N/A
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	

Application Processing Fee

Check one: Attached - Amount: \$_____ X Not Applicable

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:		
	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, 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.		
	Signature Date		

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:		
	Jim Daniel ,Cement Plant Manager		
2.	Application Responsible Official Qualification (Check one or more of the following options, as applicable):		
	x 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.		
	For a partnership or sole proprietorship, a general partner or the proprietor, respectively.		
	For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.		
	The designated representative at an Acid Rain source or CAIR source.		
3.	Application Responsible Official Mailing Address		
	Organization/Firm: CEMEX CONSTRCTION MATERIALS FLORIDA, LLC		
	Street Address: 10311 Cement Plant Road		
	City: Brooksville State: Florida Zip Code: 34601		
4.	Application Responsible Official Telephone Numbers		
	Telephone: (352)799-7881 ext. Fax: (352) 540 -4794		
5.	Application Responsible Official E-mail Address: jdaniel@cemexusa.com		

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 & Associates		
	Street Address: 4014 NW 13 th Street		
	City: Gainesville State: FL Zip Code: 32609		
3.	Professional Engineer Telephone Numbers		
	Telephone: (352)377 - 5822 ext. 18 Fax: (352)- 377-7158		
5.	Professional Engineer Statement:		
	<i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i>		
	(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and		
	(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 \underline{x} 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 \square 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 \underline{x} , 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 \square , 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		
	(seal)		

* Attach any exception to certification statement.

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM CoordinatesZone 17East (km) 360North (km) 3162.5		 2. Facility Latitude/Longitude Latitude (DD/MM/SS) 28/35/55.3 Longitude (DD/MM/SS) 82/25/52 		
3. C	Governmental	4. Facility Status	5. Facility Major	6. Facility SIC(s):
1		Code.	Cloup SIC Code.	22.41
	0	Δ	52	5241

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: Fl Zip Code:34601		
3.	Facility Contact Telephone Numbers:		
	Telephone: (325)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	2:	Zip Code:	
3.	Facility Primary Responsible	Official Telepho	one 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."

distinguish between a major source and a synthetic minor source.
1. Small Business Stationary Source Unknown
2. Synthetic Non-Title V Source
3. X Title V Source
4. 🕱 Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)
5. Synthetic Minor Source of Air Pollutants, Other than HAPs
6. 🕱 Major Source of Hazardous Air Pollutants (HAPs)
7. Synthetic Minor Source of HAPs
8. X One or More Emissions Units Subject to NSPS (40 CFR Part 60)
9. One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)
10. In One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)
11. Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))
12. Facility Regulatory Classifications Comment:
The Brooksville South Cement Plants are subject to; 40 CFR 60 Subpart F: Standards of Performance for Portland Cement Plants (superseded 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.

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
PM	А	Ν
PM10	А	Ν
SO2	А	Ν
NOx	А	N
СО	А	N
Hazardous air Pollutants (HAPs)	А	N
D/F	В	N
H114	В	Ν
SAM	В	Ν
FL	В	Ν

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility- Wide Cap [Y or N]? (all units)	3. Emissions Unit ID's Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
	(()			
7 Es :::::::::::::::::::::::::::::::::::					
7. Facility-w		Emissions Cap Con	iment.		

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

 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) Attached, Document ID:<u>2010-FCB-F1</u> Previously Submitted, Date:<u>11/08/2010*</u> 					
2. Process Flow Diagram(s): (Required for all per	mit applications, except Title V air operation				
permit revision applications if this information wa	s submitted to the department within the				
previous five years and would not be altered as a result of the revision being sought)					
Attached, Document ID:2010-FCB-F2	Previously Submitted,				
Date:11/08/2010					
 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) 					
Date: 11/08/2010					
Date. 11/08/2010					
Additional Requirements for Air Construction	Permit Applications				
1. Area Map Showing Facility Location:					
Attached, Document ID:	Not Applicable (existing permitted facility)				
 2. Description of Proposed Construction, Modified (PAL): Attached, Document ID: NA 	cation, or Plantwide Applicability Limit				
3 Pule Applicability Analysis:					
5. Kule Applicability Analysis.					
4. List of Exempt Emissions Units:					
Attached, Document ID:	Not Applicable (no exempt units at facility)				
5. Fugitive Emissions Identification:					
Attached, Document ID:	Not Applicable				
6. Air Quality Analysis (Rule 62-212.400(7), F.A	C.):				
Attached, Document ID:	Not Applicable				
7. Source Impact Analysis (Rule 62-212.400(5),	F.A.C.):				
Attached, Document ID:	Not Applicable				
8 Air Quality Impact since 1977 (Rule 62-212 $400(4)(e)$ F A C):					
Attached, Document ID:					
9 Additional Impact Analyses (Rules 62-212 400	(8) and $(62-212) = 500(4)(e) = F = A = C$				
Attached. Document ID:	Not Applicable				
10 Alternative Analysis Degreement (Dyle 62 212 500(4)(s), E.A. C.);					
Attached Document ID:	2.300(4)(g), F.A.C.). Not Applicable				
	not applicable				

*- All required Attachments were provided to FDEP with the TV application for renewal dated 11/08/2010 (resulting in Permit No. 0530021-029-AV). The Attachment IDs are preserved in this Application for reference; but the Attachments are not resubmitted.

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications

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

1.	List of Insignificant Activities: (Required for initial/renewal applications only)				
	Attached, Document ID: 2010-FCB-FTV1* 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: 2010-FCB-FTV2*				
	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: 2010-FCB-FTV3*				
	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: X Not Applicable				
6.	Requested Changes to Current Title V Air Operation Permit: Attached, Document ID: X Not Applicable				

*- Submitted 11/08/2010

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1.	Acid Rain Program Forms:			
	Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)): Attached, Document ID: Previously Submitted, Date: X 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: X Not Applicable			
	New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.): Attached, Document ID: Previously Submitted, Date: X Not Applicable			
2.	CAIR Part (DEP Form No. 62-210.900(1)(b)): Attached, Document ID: Not Applicable (not a CAIR source)			

Additional Requirements Comment

EMISSIONS UNIT INFORMATION

Section [1] of [36]

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 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. (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.

EU001 Filter Dust Bin

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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.						
Er	nissions Unit Descr	ription and Status					
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)				
	x This Emissions	Unit Information Section	on addresses, as a single	e emissions unit, a single			
	process or proc which has at le	luction unit, or activity, ast one definable emissi	which produces one or on point (stack or vent)	more air pollutants and			
	This Emissions of process or p point (stack or	s Unit Information Section roduction units and active vent) but may also prod	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission			
	This Emissions more process o	s Unit Information Section r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.			
2.	Description of Em	issions Unit Addressed i	in this Section: Filter I	Dust Bin (D-75)			
3.	Emissions Unit Ide	entification Number: 00	1				
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit			
	Status Code:	Construction	Date:	Major Group			
	Α	Date:		SIC Code: 32			
8.	Federal Program A	pplicability: (Check all	that apply)	1			
	Acid Rain Unit	t					
	CAIR Unit						
9.	Package Unit:						
	Manufacturer: Model Number:						
10	10. Generator Nameplate Rating: MW						
11	11. Emissions Unit Comment: Emission Unit is a Storage Bin for Fines (dust)						

Emissions Unit Control Equipment/Method: Control **1** of **1**

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

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 [1] of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 45.0 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:

Note: This EU has been permitted at a through-put rate of 450 tph for years; probably as a result of a scrivener's error. The maximum through-put rate is 45 tph.

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on I Flow Diagram: D-75	Identification of Point on Plot Plan or Flow Diagram: D-75		Гуре Code:	
3. Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:	
4. ID Numbers or Description	ns of Emission Ur	nits with this Emission	n Point in Common:	
5. Discharge Type Code: H	 Stack Height 125 feet 	:	 Exit Diameter: 2.0 feet 	
8. Exit Temperature: 77 °F	9. Actual Volut 6,800 acfm	metric Flow Rate:	10. Water Vapor: %	
11. Maximum Dry Standard F 6,686 dscfm	low Rate:	12. Nonstack Emission Point Height: feet		
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)		
North (km)	:	Longitude (DD/MM/SS)		
15. Emission Point Comment: Stack parameters based on Permit No. 0530021-011-AV				

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: 45.0	5.	Maximum <i>A</i> 394,200	Annual Rate:	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 8,760 hr/yr

Segment Description and Rate: Segment _____ of

1. Segment Description (Prod	cess/Fuel Type):		
2. Source Classification Cod	e (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 [36]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018		EL

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 Perc	ent Efficie	ency of Control:
3. Potential Emissions:0.7 lb/hour3.07	7 tons/year	4. Synth	netically Limited? Yes 🕱 No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: 0.015 gr/acfReference: 0530021-011-AV			7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline From:	24-month	Period: Fo:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected	l Monitori ars 🔲 1	ng Period: 0 years
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions C	omment:		

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date o	f Allowable
	RULE		Emissions:	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:	
	0.015 gr/acf		0.7 lb/hour	3.07 tons/year
5.	Method of Compliance:			
	Annual compliance testing using EPA Method 9 in lieu of EPA Method 5			od 5

6. Allowable Emissions Comment (Description of Operating Method): Based on BACT and Permit No. 0530021-011-AV

<u>Allowable Emissions</u> 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 _____ 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 [36]

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1. Visible Emissions Subtype:2. Basis for Allowable Opa		Opacity:	
	VE05	X Rule	Other
3.	Allowable Opacity: Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Method 9 annually;30 minutes		
5.	Visible Emissions Comment: Based on Pe	rmit No.0530021-011-AV	and Rule 62-
29	7.310(7), F.A.C		
L			

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE10	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance: Method 22; mont	hly [or less frequently as	s prescribed by 40
CI	FR 63.1350(a)(4) 1-minute		
_			
5.	Visible Emissions Comment: Based on 40	CFR 63.1348	

EMISSIONS UNIT INFORMATIONSection [1]of [36]

H. CONTINUOUS MONITOR INFORMATION

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

<u>Continuous Monitoring System:</u> Continuous	Monitor of
1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

EU001 Filter Dust Bin

Section [1] of [36]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

 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) Attached, Document ID: <u>2010-FCB-EU01-I1</u> X 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) Attached, Document ID: 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) Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date<u>11/8/2010</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)
Attached, Document ID: <u>2010-FCB-O&M</u> Previously Submitted, Date <u>11/8/2010</u>
── 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) Attached, Document ID: <u>2010-FCB-O&M</u>
□ Not Applicable

-	
6.	Compliance Demonstration Reports/Records:
	Test Date(s)/Pollutant(s) Tested:
	x Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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:

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)):		
	Attached, Document ID: Not Applicable		
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.):		
	Attached, Document ID: Not Applicable		
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)		
	Attached, Document ID: Not Applicable		

Additional Requirements for Title V Air Operation Permit Applications

1.	Identification of Applicable Requirements:		
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)		
2.	Compliance Assurance Monitoring:		
	X Attached, Document ID: <u>Refer comment</u> Not Applicable		
3.	Alternative Methods of Operation:		
	Attached, Document ID: X Not Applicable		
4.	Alternative Modes of Operation (Emissions Trading):		
	Attached, Document ID: X Not Applicable		

Additional Requirements Comment

The Filter Dust Bin(EU001) is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP).So CAM does not apply for this source. Please refer attachment 2010- FCB-CAM

EMISSIONS UNIT INFORMATION

Section [2] of [36]

EU002 Fly Ash/Equilibrium Catalyst 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 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. (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 INFORMATIONSection [2]of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

I. Regulated or Unrest or renewal Title V permit or FESOP	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 emissions unit	 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 Emission	s Unit Addressed in this	Section: (Check one)						
This Emission process or pro which has at le	 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 Emission of process or p point (stack or	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 Emission more process	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.							
 Description of Emissions Unit Addressed in this Section: Fly Ash/Equilibrium Catalyst Bin (D-67) 								
3. Emissions Unit Id	entification Number: 00)2						
4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	 7. Emissions Unit Major Group SIC Code: 32 					
8. Federal Program	Applicability: (Check al	l that apply)						
Acid Rain Uni	it y <	11 37						
CAIR Unit								
9. Package Unit: Manufacturer:		Model Number:						
10. Generator Namep	late Rating: MW							
11. Emissions Unit Comment: Emission Unit is a Storage Bin for Fly Ash/Equilibrium Catalyst								

EMISSIONS UNIT INFORMATION

Section [2] of [36]

Emissions Unit Control Equipment/Method: Control **1** of **1**

- 1. Control Equipment/Method Description: Baghouse-Low Temperature
- 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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATIONSection [2]of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 25 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:			

EMISSIONS UNIT INFORMATIONSection [2]of [36]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

 Identification of Point on Plot Plan or Flow Diagram: D-67 		2. Emission Point Type Code:1				
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: H	6. Stack Height: 125 feet		7. Exit Diameter: 2.0 feet			
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate:4,200 acfm		10. Water Vapor: %			
11. Maximum Dry Standard F 4,130 dscfm	low Rate:	12. Nonstack Emission Point Height: feet				
13. Emission Point UTM CoorZone:East (km):	rdinates	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)				
North (km)	:	Longitude (DD/N	MM/SS)			
15. Emission Point Comment: Stack parameters based on Permit No. 0530021-011-AV						
of

Section [2]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>1</u>

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1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Raw Material Transfer

2.	Source Classification Code	e (SCC):	3. SCC Units:		
	3-05-006-12		Tons Hane	dled	
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity
	25	219,000			Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10					

10. Segment Comment:

Maximum annual rate is based on the Hourly rate and 8,760 hr/yr

Segment Description and Rate: Segment ____ of ____

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

Section [2] of [36]

EU002 Fly Ash/Equilibrium Catalyst Bin

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018		EL

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:0.4 lb/hour1.75	5 tons/year	4. Synth	netically Limited? Zes 🕱 No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: 0.015 gr/acfReference: 0530021-011-AV			7. Emissions Method Code:0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline From:	24-month	Period: Fo:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected	l Monitori ars 🔲 1	ng Period: 0 years
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Co	omment:		

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable
	RULE		Emissions:
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:
	0.015 gr/acf		0.4 lb/hour 1.75 tons/year
5.	Method of Compliance:		
	Annual compliance testing using EPA Me	tho	d 9 in lieu of EPA Method 5
6.	6. Allowable Emissions Comment (Description of Operating Method):		
	Based on BACT and Permit No. 0530021-	011	-AV
6.	Annual compliance testing using EPA Me Allowable Emissions Comment (Description Based on BACT and Permit No. 0530021-	tho of (011	d 9 in lieu of EPA Method 5 Operating Method): -AV

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

Section [2] of [36]

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:		2. Basis for Allowabl	le Opacity:
	VE05		x Rule	Other
3.	Allowable Opacity:			
	Normal Conditions:	5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Op	acity Allowe	ed:	min/hour
4.	Method of Compliance:			
	Method 9 annually;30 minute	es		
5. 29	Visible Emissions Comment: 1 7.310(7), F.A.C	Based on Pe	rmit No.0530021-011-2	AV and Rule 62-

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{2}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:	
	VE10	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance: Method 22; mont	hly [or less frequently as	s prescribed by 40
CI	FR 63.1350(a)(4) 1-minute		
5.	Visible Emissions Comment: Based on 40	CFR 63.1348	

of

Section [2]

EU002 Fly Ash/Equilibrium Catalyst 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 _____

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1.	Parameter Code:	2. Pollutant(s):
3.	CMS Requirement:	Rule 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:	Rule 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 [2] [36]

of

Fly Ash/Equilibrium Catalyst Bin EU002

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) Attached, Document ID: 2010-FCB-EU02-I1 X Previously Submitted, Date 11/08/10
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) Attached, Document ID: 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) Attached, Document ID: 2010-FCB-O&M X Previously Submitted, Date11/08/10
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)
	Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date <u>11/08/10</u> 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) Attached, Document ID: <u>2010-FCB-O&M X</u> Previously Submitted, Date <u>11/08/10</u> Not Applicable
6.	Compliance Demonstration Reports/Records:
	Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	x Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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:	x Not Applicable	

of

Section [2]

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

[36]

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)):
	Attached, Document ID: Not Applicable
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):
	Attached, Document ID: Not Applicable
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities
	only)
	Attached, Document ID: Not Applicable
Ac	Iditional Requirements for Title V Air Operation Permit Applications
1.	Identification of Applicable Requirements:
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2011)
2.	Compliance Assurance Monitoring:

- X Attached, Document ID: <u>Refer comment</u> Not Applicable
- 3. Alternative Methods of Operation:
 Attached, Document ID: _____ X Not Applicable
- 4. Alternative Modes of Operation (Emissions Trading):
 Attached, Document ID: X Not Applicable

Additional Requirements Comment

The Fly Ash/Equilibrium Catalyst Bin(EU002) is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

EMISSIONS UNIT INFORMATION Section [3] of [36]

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 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.

Section [3] of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1. Regulated or Unre or renewal Title V permit or FESOP of	. 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.)				
x The emissions	X The emissions unit addressed in this Emissions Unit Information Section is a regulated				
emissions unit.	unit addressed in this F	missions Unit Informati	on Section is an		
unregulated en	nissions unit.		on Section is an		
Emissions Unit Desci	ription and Status				
1. Type of Emissions	Unit Addressed in this	Section: (Check one)			
x This Emissions	s Unit Information Secti	on addresses, as a single	e emissions unit, a single		
process or proc which has at le	luction unit, or activity, ast one definable emission	which produces one or a on point (stack or vent)	more air pollutants and		
This Emissions of process or p point (stack or	s Unit Information Secti roduction units and acti vent) but may also prod	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission		
This Emission more process of	s Unit Information Section production units and a	on addresses, as a single	e emissions unit, one or fugitive emissions only.		
2. Description of Em	issions Unit Addressed	in this Section: Raw M	eal Transfer (F-14)		
3 Emissions Unit Ide	entification Number: 00	4			
4 Emissions Unit	5 Commence	6 Initial Startup	7 Emissions Unit		
Status Code:	Construction	Date:	Major Group		
	Date:		SIC Code:		
Α			32		
8. Federal Program A	applicability: (Check all	that apply)			
	t				
9. Package Unit: Manufacturer:		Model Number			
10. Generator Namepl	ate Rating: MW				
11. Emissions Unit Co	omment: This emission	Unit is an activity of ra	aw meal from being		
transferred from	the storage bins to the	raw mill.			

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Emissions Unit Control Equipment/Method: Control **1** of **1**

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

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [3] of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 138 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:	

EMISSIONS UNIT INFORMATION Section [3] of [36]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on I Flow Diagram: F-14	Plot Plan or	2. Emission Point 7 1	Гуре Code:	
3. Descriptions of Emission I	Points Comprising	g this Emissions Unit	for VE Tracking:	
4. ID Numbers or Description	ns of Emission Ur	nits with this Emission	Point in Common:	
5. Discharge Type Code: H	6. Stack Height70 feet	:	 Exit Diameter: 1.0 feet 	
8. Exit Temperature: 180 °F	 Actual Volur 1,200 acfm 	metric Flow Rate:	10. Water Vapor: %	
11. Maximum Dry Standard F 970 dscfm	low Rate:	12. Nonstack Emissi feet	on Point Height:	
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point I Latitude (DD/MI	_atitude/Longitude M/SS)	
North (km):Longitude (DD/MM/SS)			vIM/SS)	
15. Emission Point Comment: Stack parameters based on Permit No. 0530021-011-AV				

Section [3] of [36] EU004 Raw Meal Transfer D. SEGMENT (PROCESS/FUEL) INFORMATION

<u>Segment Description and Rate:</u> Segment <u>1</u> of <u>1</u>

1.	Segment Description (Process/Fuel Type):					
	Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Raw Material Transfer					
2.	. Source Classification Code (SCC): 3. SCC Units:					
	3-05-006-12		Tons Har	landled		
4.	Maximum Hourly Rate: 138	5. Maximum 1,208,880	Annual Rate:	6. Estimated Annual Activity Factor:		
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:		
10	10. Segment Comment:					
	Maximum annual rate is based on the Hourly rate and 8,760 hr/yr					

Segment Description and Rate: Segment _____ of ____

1. Segment Description (Pro	cess/Fuel Type):		
2. Source Classification Cod	le (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:	1		1

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EU004 Raw Meal Transfer

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018		EL

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

Pollutant Emitted: 2. Total Percent Efficiency PM		ent Efficie	ency of Control:
3. Potential Emissions:0.2 lb/hour0.88	3 tons/year	4. Synth	netically Limited? Yes 🕱 No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: 0.015 gr/acfReference: 0530021-011-AV			7. Emissions Method Code:0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline From:	24-month	Period: Го:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected	l Monitori ars 🔲 1	ng Period: 0 years
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Control of the second seco	omment:		

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable	
RULE	Emissions:	
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:	
0.015 gr/acf	0.2 lb/hour 0.88 tons/year	
5. Method of Compliance:		
Annual compliance testing using EPA Me	ethod 9 in lieu of EPA Method 5	
6. Allowable Emissions Comment (Description of Operating Method):		
Based on BACT and Permit No. 0530021	-011-AV	

Allowable Emissions _____ of _____

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

Allowable Emissions _____ of _____

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

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G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:		2. Basis for Allowabl	e Opacity:
	VE05		x Rule	Other
3.	Allowable Opacity:			
	Normal Conditions:	5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess O	pacity Allow	ed:	min/hour
4.	Method of Compliance:			
	Method 9 annually;30 minut	es		
5.	Visible Emissions Comment:	Based on Pe	rmit No.0530021-011-A	AV and Rule 62-
29	7.310(7), F.A.C			

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{2}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE10	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance: Method 22; mont	hly [or less frequently a	s prescribed by 40
CI	FR 63.1350(a)(4) 1-minute		
5.	Visible Emissions Comment: Based on 40	CFR 63.1348	

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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:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

Section [3] of [36]

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) Attached, Document ID: 2010-FCB-EU04-I1 Previously Submitted, Date (08/10
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) Attached, Document ID: 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) Attached, Document ID: 2010-FCB-O&M Previously Submitted, Date11/08/10
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)
	Attached, Document ID: <u>2010-FCB-O&M</u> Previously Submitted, Date <u>11/08/10</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) Attached, Document ID: 2010-FCB-O&M Previously Submitted, Date 11/08/10
	Not Applicable
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	x Previously Submitted, Date 3/15/2011 Test Date(s)/Pollutant(s) Tested: VE
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	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.	7. Other Information Required by Rule or Statute:	
	Attached, Document ID:	x Not Applicable

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EU004 Raw Meal Transfer

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)):	Not Applicable		
2.	Good Engineering Practice Stack Height Ar	nalysis (Rules 62-212.400(4)(d) and 62-		
	212.500(4)(f), F.A.C.):			
	Attached, Document ID:	Not Applicable		
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities		
	only)			
	Attached, Document ID:	Not Applicable		
Additional Requirements for Title V Air Operation Permit Applications				
1.	Identification of Applicable Requirements:			
1.	Identification of Applicable Requirements:	J 1-ITV1 (submitted 11/08/2010)		
1. 2.	Identification of Applicable Requirements: Attached, Document ID: 2010-FCB-EU Compliance Assurance Monitoring:	J1-ITV1 (submitted 11/08/2010)		
1. 2.	Identification of Applicable Requirements: Attached, Document ID: 2010-FCB-EU Compliance Assurance Monitoring: Attached, Document ID: Refer commen	<u>J1-ITV1 (submitted 11/08/2010)</u> <u>t</u> □ Not Applicable		
1. 2. 3.	Identification of Applicable Requirements: □ Attached, Document ID: 2010-FCB-EU Compliance Assurance Monitoring: ☑ Attached, Document ID: Refer comment Alternative Methods of Operation:	U 1-ITV1 (submitted 11/08/2010)		
1. 2. 3.	Identification of Applicable Requirements: Attached, Document ID: 2010-FCB-EU Compliance Assurance Monitoring: Attached, Document ID: Refer commen Alternative Methods of Operation: Attached, Document ID:	UI-ITV1 (submitted 11/08/2010) <u>t</u> Not Applicable X Not Applicable		
1. 2. 3. 4.	Identification of Applicable Requirements: □ Attached, Document ID: 2010-FCB-EU Compliance Assurance Monitoring: ☑ Attached, Document ID: Refer comment Alternative Methods of Operation: □ Attached, Document ID: Alternative Methods of Operation (Emissions)	U1-ITV1 (submitted 11/08/2010) <u>t</u> Not Applicable Not Applicable Trading):		

Additional Requirements Comment

The Raw Meal Transfer (EU003) is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

EMISSIONS UNIT INFORMATION Section [4] of [36]

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 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. (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.

EU006 Two Blend Silos

Section [4] of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1. Regulated or Unro or renewal Title V permit or FESOP	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 emissions uni	The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.				
unregulated en	The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.				
Emissions Unit Desc	ription and Status				
1. Type of Emission	s Unit Addressed in this	Section: (Check one)			
This Emission process or pro which has at l	s Unit Information Secti duction unit, or activity, east one definable emiss	ion addresses, as a single which produces one or ion point (stack or vent)	e emissions unit, a single more air pollutants and		
This Emission of process or p point (stack or	s Unit Information Section production units and action (vent) but may also proc	ion addresses, as a single vities which has at least luce fugitive emissions.	e emissions unit, a group one definable emission		
This Emission more process	s Unit Information Section production units and a	on addresses, as a single activities which produce	e emissions unit, one or fugitive emissions only.		
 Description of En Emissions Unit Id 	entification Number: 0	in this Section: Two Bl	end Silos (G-12 A & B)		
4 Emissions Unit	5 Commence	6 Initial Startun	7 Emissions Unit		
Status Code:	Construction Date:	Date:	Major Group SIC Code:		
Α			32		
8. Federal Program	Applicability: (Check al	l that apply)			
🗌 Acid Rain Un	it				
CAIR Unit					
9. Package Unit:					
Manufacturer:		Model Number:			
10. Generator Namep	late Rating: MW				
11. Emissions Unit C being transferred	omment: This emission : I from the raw mill.	s unit is two storage sil	os for the raw meal		

Emissions Unit Control Equipment/Method: Control **1** of **1**

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

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [4] of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 138 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:	

EMISSIONS UNIT INFORMATION Section [3] of [36]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Flow Diagram: G-12 A &	Plot Plan or B	2. Emission Point 7 1	Гуре Code:	
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: V	6. Stack Height 240 feet		7. Exit Diameter: 3.5 feet	
8. Exit Temperature: 180 °F	9. Actual Volut 17,000 acfm	metric Flow Rate:	10. Water Vapor: %	
11. Maximum Dry Standard F 13,745 dscfm	low Rate:	12. Nonstack Emission Point Height: feet		
13. Emission Point UTM Coordinates Zone: East (km):		14. Emission Point Latitude/Longitude Latitude (DD/MM/SS) Longitude (DD/MM/SS)		
15. Emission Point Comment: Stack parameters based on Permit No. 0530021-011-AV				

EMISSIONS UNIT INFORMATION Section [4] of [36]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>1</u>

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:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity
	138	1,208,880			Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10					

10. Segment Comment:

Maximum 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	e (SCC):	3. SCC Units:		
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. I I	Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. N	Million Btu per SCC Unit:
10. Segment Comment:				

EU006 Two Blend Silos

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	3. Secondary Control	4. Pollutant
	Device Code	Regulatory Code
PM		EL

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 Perc	ent Efficie	ency of Control:
3. Potential Emissions:2.2 lb/hour9.64	4 tons/year	4. Synth	netically Limited? Yes 🕱 No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: 0.015 gr/acfReference: 0530021-011-AV			7. Emissions Method Code:0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline From:	24-month	Period: Fo:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected	l Monitori ars 🔲 1	ng Period: 0 years
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Co	omment:		

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable
	RULE		Emissions:
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:
	0.015 gr/acf		2.2 lb/hour 9.64 tons/year
5.	Method of Compliance:		
	Annual compliance testing using EPA Me	tho	1 9 in lieu of EPA Method 5
6.	6. Allowable Emissions Comment (Description of Operating Method):		
	Based on BACT and Permit No. 0530021-	011	-AV

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

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G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE05	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	xceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ed:	min/hour
4.	Method of Compliance:		
	Method 9 annually;30 minutes		
5.	Visible Emissions Comment: Based on Pe	ermit No.0530021-011-A	V and Rule 62-
29	7.310(7), F.A.C		

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE10	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4. Cl	Method of Compliance: Method 22; mont FR 63.1350(a)(4) 1-minute	hly [or less frequently a	s prescribed by 40
5.	Visible Emissions Comment: Based on 40	CFR 63.1348	

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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:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

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I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. <u>11</u>	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) Attached, Document ID: <u>2010-FCB-EU06-I1</u> x Previously Submitted, Date /08/10
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) Attached, Document ID: 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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10
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)
	Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date <u>11/08/10</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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date 11/08/10
	□ Not Applicable
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	x Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: VE
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	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:	x Not Applicable
of

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Section [4]

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)):
	Attached, Document ID: Not Applicable
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):
	Attached, Document ID: Not Applicable
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities
	only)
	Attached, Document ID: Not Applicable
Ac	Iditional Requirements for Title V Air Operation Permit Applications
1.	Identification of Applicable Requirements:
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)
2.	Compliance Assurance Monitoring:

- X Attached, Document ID: <u>Refer comment</u> Not Applicable
- 3. Alternative Methods of Operation:
 Attached, Document ID: ______ X Not Applicable

Additional Requirements Comment

The Two Blend Silos (EU006) is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

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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 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. (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 INFORMATIONSection [5]of [36]

EU007 Kiln Feed Surge Bin

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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 unregulated em	unit addressed in this Ei issions unit.	nissions Unit Informati	on Section is an		
Em	issions Unit Descr	iption and Status				
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)			
	x This Emissions	Unit Information Section	on addresses, as a single	e emissions unit, a single		
	process or prod which has at lea	luction unit, or activity, ast one definable emissi	which produces one or a on point (stack or vent)	more air pollutants and		
	This Emissions of process or pr point (stack or	Unit Information Section roduction units and active vent) but may also prod	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission		
	This Emissions more process o	Unit Information Section r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.		
2.	Description of Emi	ssions Unit Addressed i	n this Section: Kiln Fe	eed Surge Bin (H-15)		
3.	Emissions Unit Ide	entification Number: 00	7			
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit		
	Status Code:	Construction	Date:	Major Group		
	•	Date:		SIC Code:		
0	A Eadaral Dragnara A	nnliachility, (Chaolt all	that apply)	32		
0.	Federal Flografii A		that apply)			
9.	Package Unit:					
	Manufacturer:		Model Number:			
10.	Generator Namepla	ate Rating: MW				
11.	Emissions Unit Co preheated in the p	mment: This emissions preheater and transfer	unit is an activity of n red to the kiln.	naterials being		

Section [5]

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

[36]

1. Control Equipment/Method Description: **Baghouse-Medium Temperature**

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 [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 138 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:	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

 Identification of Point on Plot Plan or Flow Diagram: H-15 		2. Emission Point 7 1	ſype Code:		
3. Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:					
5. Discharge Type Code: H	 Stack Height 240 feet 	:	 Exit Diameter: 2.0 feet 		
8. Exit Temperature: 200 °F	9. Actual Volur 6,000 acfm	metric Flow Rate:	10. Water Vapor: %		
11. Maximum Dry Standard F 4,704 dscfm	low Rate:	12. Nonstack Emission Point Height: feet			
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)			
North (km)	:	Longitude (DD/N	MM/SS)		
15. Emission Point Comment: Stack parameters based on Permit No. 0530021-011-AV					

of

Section [5]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

[36]

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:	5. Maximum Annual Rate:		6.	Estimated Annual Activity
	138	1,208,880			Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10	0 + 0				

10. Segment Comment:

Maximum annual rate is based on the Hourly rate and 8,760 hr/yr

Segment Description and Rate: Segment __ of __

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

Section [5] of [36]

EU007 Kiln Feed Surge Bin

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
Device Code		Device Code	Regulatory Code
PM	017		EL

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:0.8 lb/hour3.5	5 tons/year 4. Synth		netically Limited? Yes 🕱 No	
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 0.015 gr/acfReference: 0530021-011-AV			7. Emissions Method Code:0	
8.a. Baseline Actual Emissions (if required): tons/year8.b. Baseline 24-mont From:			Period: Fo:	
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period:			
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions Comment:				

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable				
RULE	Emissions:				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:				
0.015 gr/acf	0.8 lb/hour 3.5 tons/year				
5. Method of Compliance:	. Method of Compliance:				
Annual compliance testing using EPA Method 9 in lieu of EPA Method 5					
6. Allowable Emissions Comment (Description of Operating Method):					
Based on BACT and Permit No. 0530021-011-AV					

Allowable Emissions _____ of _____

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

Allowable Emissions _____ of _____

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date Emissions:	e of Allowable
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		e Emissions:
			10/11001	tons/year
5.	Method of Compliance:			
6.	Allowable Emissions Comment (Description	of	Operating Method):	

EMISSIONS UNIT INFORMATION Section [5] of [36]

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:	2. Basis for Allowable	Opacity:
	VE05	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Method 9 annually;30 minutes		
5.	Visible Emissions Comment: Based on Pe	rmit No.0530021-011-AV	V and Rule 62-
29	7.310(7), F.A.C		

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{2}$ of $\underline{2}$

1. Visible Emissions Subtype:		2. Basis for Allowable Opacity:	
	VE10	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance: Method 22; mont	hly [or less frequently as	s prescribed by 40
CI	FR 63.1350(a)(4) 1-minute		
_		CED (2.4240	
5.	Visible Emissions Comment: Based on 40	CFR 63.1348	

H. CONTINUOUS MONITOR INFORMATION

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

Co	Continuous Monitoring System: Continuous Monitor of					
1.	Parameter Code:	2. Pollutant(s):				
3.	CMS Requirement:	Rule 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:] Rule 🔲 Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

Section [5] of [36]

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) Attached, Document ID: <u>2010-FCB-EU07-I1</u> Previously Submitted, Date <u>11/08/10</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) Attached, Document ID: 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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10
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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date 11/08/10
	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) Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date <u>11/08/10</u>
	Not Applicable
6.	Compliance Demonstration Reports/Records:
	Test Date(s)/Pollutant(s) Tested:
	x Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: VE
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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:	x Not Applicable

of

Section [5]

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

[36]

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)):		
	Attached, Document ID: Not Applicable		
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-		
	212.500(4)(f), F.A.C.):		
	Attached, Document ID: Not Applicable		
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities		
	only)		
	Attached, Document ID: Not Applicable		
Ac	Iditional Requirements for Title V Air Operation Permit Applications		
1.	Identification of Applicable Requirements:		
	Attached Document ID:2010-FCB-FUI-ITV1 (submitted 11/08/2010)		

Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)
Compliance Assurance Monitoring:

Attached, Document ID: <u>Refer comment</u> Not Applicable

Alternative Methods of Operation:

Attached, Document ID: ______ Not Applicable

Alternative Modes of Operation (Emissions Trading):

Attached, Document ID: ______ Not Applicable

Additional Requirements Comment

The Kiln Feed Surge Bin (EU007) is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

Section [6] of [36]

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 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. (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 INFORMATIONSection [6]of [36]

EU008 Clinker Receiving/Handling System

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1. Regulated or Uni or renewal Title permit or FESOR	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 emission emissions un The emission unregulated e	 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 			
Emissions Unit Des	cription and Status			
1. Type of Emission	s Unit Addressed in this	Section: (Check one)		
This Emissio process or pro which has at	ns Unit Information Section oduction unit, or activity, least one definable emission	on addresses, as a single which produces one or on point (stack or vent)	e emissions unit, a single more air pollutants and	
This Emissio of process or point (stack o	ns Unit Information Secti production units and acti r vent) but may also prod	on addresses, as a single vities which has at least luce fugitive emissions.	e emissions unit, a group one definable emission	
This Emissio more process	ns Unit Information Secti or production units and a	on addresses, as a single	e emissions unit, one or fugitive emissions only.	
2. Description of Ex System (S-04)	nissions Unit Addressed	in this Section: Clinke	r Receiving/Handling	
3. Emissions Unit I	dentification Number: 00	08		
4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	
A 9 Enderel Drogram	Applicability: (Chook al	that apply)	52	
o. Federal Flogram	Application of the analysis of	i illat appry)		
\Box CAIR Unit				
9. Package Unit:				
Manufacturer:		Model Number:		
10. Generator Name	Diate Kating: MW	unit is on integrated	watam fan han di'n a	
11. Emissions Unit Comment: This emissions unit is an integrated system for handling clinker that includes a below-grade truck unloading hopper, a belt conveyor, and a deep-bucket conveyor.				

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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 Control Equipment/Method: Control _____ of _____

Control Equipment/Method Description:
 Control Device or Method Code:

Section [6] of [36]

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:	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

 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 Descriptio	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 Volur acfm	metric Flow Rate:	10. Water Vapor: %			
11. Maximum Dry Standard F dscfm	low Rate:	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: Stack parameters based on Permit No. 0530021-011-AV						

of

Section [6]

EU008 Clinker Receiving/Handling System

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>1</u>

[36]

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 <i>2</i> 876,000	Annual Rate:	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10	Comment Comments				

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

Section [6] of [36]

EU008 Clinker Receiving/Handling System

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM			EL

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:	2. Total Percent Efficiency of Control:			
PM				
3. Potential Emissions:4. Synth		thetically Limited?		
0.7 lb/hour 3.1	l tons/year	Yes x No		
5. Range of Estimated Fugitive Emissions (as	applicable):			
to tons/year				
6. Emission Factor: 0.7 lb/hr		7. Emissions		
		Method Code:		
Reference: 0530021-011-AV		0		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-mont	h Period:		
tons/year	From:	To:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitor	ring Period:		
tons/year	5 years	10 years		
10. Calculation of Emissions:				
0.7 lb/hr x 8760 hr/yr x 1 ton/2000 lb = 3.0)7 TPY			
11. Potential, Fugitive, and Actual Emissions Comment:				

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable			
	RULE	Emissions:			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		Emissions:	
	0.7 lb/hr	0.7 lb/hour 3.1 tons/year		3.1 tons/year	
5.	5. Method of Compliance:				
	Annual compliance testing using DEP Method 9				
6.	6. Allowable Emissions Comment (Description of Operating Method):				
	Based on BACT and Permit No. 0530021-011-AV				

Allowable Emissions _____ of _____

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

Allowable Emissions _____ of _____

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

Section [6] of [36]

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:	2. Basis for Allowable Opacity:	
	VE10	🗌 Rule	x Other
3.	Allowable Opacity:		0/
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	m1n/hour
4.	Method of Compliance:		
	DEP Method 9 annually		
	•		
5.	Visible Emissions Comment: Based on Pe	rmit No.0530021-011-AV	
1			

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>2</u> of <u>2</u>

1. Visible Emissions Subtype:		2. Basis for Allowable	Opacity:
	VE10	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance: Method 22; mont	hly [or less frequently as	s prescribed by 40
CI	FR 63.1350(a)(4) 1-minute		
		~~~	
5.	Visible Emissions Comment: <b>Based on 40</b>	CFR 63.1348	

#### H. CONTINUOUS MONITOR INFORMATION

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

Co	<u>Continuous Monitoring System:</u> Continuous Monitor of			
1.	Parameter Code:	2.	Pollutant(s):	
3.	CMS Requirement:		] Rule Dther	
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:	Rule 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]

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### I. EMISSIONS UNIT ADDITIONAL INFORMATION

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

1. <u>11</u>	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) Attached, Document ID: 2010-FCB-EU08-I1 × Previously Submitted, Date /08/10
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)         Attached, Document ID:       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)  Attached, Document ID: Previously Submitted, Date
4.	<ul> <li>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)</li> <li>Attached, Document ID: Previously Submitted, Date</li> </ul>
	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) Attached, Document ID: <b>2010-FCB-O&amp;M</b> R Previously Submitted, Date 11/08/10
	□ Not Applicable
6.	Compliance Demonstration Reports/Records:  Attached, Document ID:  Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	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.	7. Other Information Required by Rule or Statute:	
	Attached, Document ID:	x Not Applicable

of

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#### 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)):
	Attached, Document ID: Not Applicable
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):
	Attached, Document ID: Not Applicable
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities
	only)
	Attached, Document ID: Not Applicable
Ac	Iditional Requirements for Title V Air Operation Permit Applications
1.	Identification of Applicable Requirements:
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)
2.	Compliance Assurance Monitoring:

- X Attached, Document ID: <u>Refer comment</u> Not Applicable
- 3. Alternative Methods of Operation:
  Attached, Document ID: _____ X 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.

**EU009 Clinker Cooler Discharge** 

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#### **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 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.

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#### A. GENERAL EMISSIONS UNIT INFORMATION

#### **<u>Title V Air Operation Permit Emissions Unit Classification</u>**

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.)			
	<b>X</b> The emissions unit addressed in this Emissions Unit Information Section is a regulated			
	emissions unit.	unit addressed in this F	missions Unit Informati	on Spation is an
	unregulated em	nissions unit.		
En	nissions Unit Descr	ription and Status		
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)	
	<b>x</b> This Emissions	S Unit Information Secti	on addresses, as a single	e emissions unit, a single
	process or proc which has at le	luction unit, or activity, ast one definable emissi	which produces one or ion point (stack or vent)	more air pollutants and .
	This Emissions of process or p point (stack or	s Unit Information Secti roduction units and acti vent) but may also prod	on addresses, as a single vities which has at least luce fugitive emissions.	e emissions unit, a group one definable emission
	This Emissions more process o	S Unit Information Section r production units and a	on addresses, as a single activities which produce	e emissions unit, one or fugitive emissions only.
2. ( <b>K</b>	Description of Em -07 & L-03)	issions Unit Addressed	in this Section: Clinke	r Cooler Discharge
3.	Emissions Unit Ide	entification Number: 00	9	
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit
	Status Code:	Construction	Date:	Major Group
	Α	Date.		32
8.	Federal Program A	pplicability: (Check all	l that apply)	
	Acid Rain Unit	t		
	CAIR Unit			
9.	Package Unit:			
	Manufacturer:		Model Number:	
10	10. Generator Nameplate Rating: MW			
11.	11. Emissions Unit Comment: This emissions unit is an activity of clinker transfer from the clinker cooler to the deep bucket conveyor (L-03) which conveys clinker to clinker storage.			

Section [7]

#### EU009 Clinker Cooler Discharge

#### **Emissions Unit Control Equipment/Method:** Control <u>1</u> of <u>1</u>

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1. Control Equipment/Method Description: **Baghouse-Medium Temperature** 

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 INFORMATIONSection [7]of [36]

## **B. EMISSIONS UNIT CAPACITY INFORMATION**

### (Optional for unregulated emissions units.)

#### **Emissions Unit Operating Capacity and Schedule**

1.	Maximum Process or Throughput Rate: 83 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:			
	<b>24</b> hours/day	7 days/week		
	<b>52</b> weeks/year	8,760 hours/year		
6.	. Operating Capacity/Schedule Comment:			

# C. EMISSION POINT (STACK/VENT) INFORMATION

# (Optional for unregulated emissions units.)

# **Emission Point Description and Type**

1. Identification of Point on I Flow Diagram: <b>L-03</b>	Identification of Point on Plot Plan or Flow Diagram: <b>L-03</b>		2. Emission Point Type Code: 1		
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: H	<ol> <li>6. Stack Height 10 feet</li> </ol>	:	7. Exit Diameter: 1.0 feet		
8. Exit Temperature: <b>250</b> °F	9. Actual Volumetric Flow Rate: 5,100 acfm		10. Water Vapor: %		
<ul><li>11. Maximum Dry Standard Flow Rate:</li><li>3,717 dscfm</li></ul>		<ul><li>12. Nonstack Emission Point Height:</li><li>0 feet</li></ul>			
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:					
Stack parameters based	on Permit No. 05	30021-011-AV			

of

Section [7]

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

#### Segment Description and Rate: Segment <u>1</u> of <u>1</u>

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1. Segment Description (Process/Fuel Type):

# Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process); Clinker Cooler

2.	Source Classification Code (SCC):		3. SCC Units:		
	3-05-006-14		Tons Cem	ent	Produced
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		6.	Estimated Annual Activity
	83	727,080			Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10	10. Segment Comment:				

10. Segment Comment:

Maximum annual rate is based on the Hourly rate and 8,760 hr/yr

#### Segment Description and Rate: Segment __ of __

1. Segment Description (Pro	cess/Fuel Type):			
2. Source Classification Code	e (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:				

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#### EU009 Clinker Cooler Discharge

#### **E. EMISSIONS UNIT POLLUTANTS**

## List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	017		EL
### 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 Perce	ent Efficie	ency of Control:
3. Potential Emissions:0.66 lb/hour2.9	tons/year	4. Synth	etically Limited? es 🕱 No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: <b>0.015 gr/acf</b>			<ul><li>7. Emissions Method Code:</li></ul>
Reference: 0530021-011-AV			U
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 2	24-month	Period:
tons/year	From:	Г	<b>`</b> o:
9.a. Projected Actual Emissions (if required):	9.b. Projected	Monitori	ng Period:
tons/year	5 year	rs 🗌 1	0 years
10. Calculation of Emissions:	L		
11. Potential, Fugitive, and Actual Emissions C	omment:		

#### 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.

#### <u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable
_			
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:
	0.015 gr/acf		<b>0.66</b> lb/hour <b>2.9</b> tons/year
5.	Method of Compliance:		
	Annual compliance testing using EPA Method 9 in lieu of Method 5		
6.	Allowable Emissions Comment (Description	of (	Operating Method):
	Based on BACT and Permit No. 0530021-	011	-AV

#### <u>Allowable Emissions</u> Allowable Emissions ____ of ____

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date o	f Allowable
			Emissions	
			Emissions:	
3	Allowable Emissions and Units.	Δ	Equivalent Allowable E	inissions.
5.	Anowable Linissions and Onits.	т.	Equivalent Anowable E	AIII3510115.
			lh/hour	tons/vear
			10/11001	tons/ year
5	Method of Compliance:			
5.	Method of Compliance.			
6	Allowable Emissions Comment (Description	of	manating Mathad)	
0.	Anowable Emissions Comment (Description	01 0	Sperating Method):	

#### Allowable Emissions _____ of _____

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

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#### G. VISIBLE EMISSIONS INFORMATION

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

#### <u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE05	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % E	xceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ed:	min/hour
4.	Method of Compliance:		
	Method 9 Test;30 minutes		
5.	Visible Emissions Comment: Based on Pe	ermit No.0530021-011-A	V and Rule 62-
29	7.310(7), F.A.C		

#### Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE10	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance: Method 22; mont	hly [or less frequently as	s prescribed by 40
CI	FR 63.1350(a)(4) 1-minute		
_			
5.	Visible Emissions Comment: <b>Based on 40</b>	CFR 63.1348	

#### H. CONTINUOUS MONITOR INFORMATION

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

<b><u>Continuous Monitoring System:</u></b> Continuous	s Monitor of
1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	Rule 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:	] Rule 🔲 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] [36]

of

EU009 Clinker Cooler Discharge

### I. EMISSIONS UNIT ADDITIONAL INFORMATION

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

1. Da	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) Attached, Document ID: 2010-FCB-EU09-I1 x Previously Submitted, attached, Document ID: 2010-FCB-EU09-I1 x Previously Submitted, Attached, Document ID: 2010-FCB-EU09-I1 x Previously Submitted, Attached, Document ID: 2010-FCB-EU09-II x Previously Previo
2	Fuel Analysis or Specification: (Dequired for all normit analysis or Specifications)
2.	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)          Attached, Document ID:       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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10
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)
	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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10 Not Applicable
6.	Compliance Demonstration Reports/Records:
0.	Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	x Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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:	x Not Applicable

of

#### 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)):
	Attached, Document ID: Not Applicable
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):
	Attached, Document ID: Not Applicable
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)
	Attached, Document ID: Not Applicable
Ad	lditional Requirements for Title V Air Operation Permit Applications
1.	Identification of Applicable Requirements:

1.	Identification of Applicable Requirements:
	Attached, Document ID: 2010-FCB-EU1-ITV1 (Submitted 11/08/2010)
2.	Compliance Assurance Monitoring:
	X Attached, Document ID: <u>Refer comment</u> Not Applicable
3.	Alternative Methods of Operation:
	Attached, Document ID: X Not Applicable
4.	Alternative Modes of Operation (Emissions Trading):
	Attached, Document ID: X Not Applicable

#### **Additional Requirements Comment**

The Clinker Cooler Discharge (EU 009) is subject to 40 CFR 63, Subpart LLL which is a post 1990 National Emission Standard for Air pollutants (NESHAP) for PM. Therefore CAM does not apply for PM.

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#### **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 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.

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#### A. GENERAL EMISSIONS UNIT INFORMATION

#### **<u>Title V Air Operation Permit Emissions Unit Classification</u>**

1. Regulated or Unre or renewal Title V permit or FESOP	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.)						
<b>x</b> The emissions	unit addressed in this E	missions Unit Informati	on Section is a regulated				
emissions unit							
The emissions unregulated en	unit addressed in this E nissions unit.	missions Unit Information	on Section is an				
Emissions Unit Desc	ription and Status						
1. Type of Emissions	Unit Addressed in this	Section: (Check one)					
<b>x</b> This Emission	s Unit Information Sect	ion addresses, as a single	e emissions unit, a single				
process or proc which has at le	duction unit, or activity, east one definable emiss	which produces one or a ion point (stack or vent)	more air pollutants and				
This Emission of process or p point (stack or	s Unit Information Sect roduction units and acti vent) but may also proc	ion addresses, as a single vities which has at least luce fugitive emissions.	e emissions unit, a group one definable emission				
This Emission more process of	s Unit Information Section production units and a	ion addresses, as a single activities which produce	e emissions unit, one or fugitive emissions only.				
2. Description of Em	issions Unit Addressed	in this Section: Clinker	Storage Silos (L-06				
to L-05 & L-07)							
3. Emissions Unit Id	entification Number: 01	10					
4. Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit				
Status Coue.	Date:	Date.	SIC Code:				
Α	2		32				
8. Federal Program A	Applicability: (Check al	l that apply)	1				
🗌 Acid Rain Uni	t						
CAIR Unit	CAIR Unit						
9. Package Unit:							
Manufacturer:		Model Number:					
10. Generator Namepl	ate Rating: MW						
11. Emissions Unit Co transferred to the	omment: This emission e finish mill.	s unit is an activity of c	linker being				

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#### **EU010 Clinker Storage Silos**

#### **Emissions Unit Control Equipment/Method:** Control <u>1</u> of <u>1</u>

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1. Control Equipment/Method Description: **Baghouse-Medium Temperature** 

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 INFORMATIONSection [8]of [36]

### **B. EMISSIONS UNIT CAPACITY INFORMATION**

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

#### **Emissions Unit Operating Capacity and Schedule**

1.	Maximum Process or Throughput Rate: 83 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:	
	<b>24</b> hours/day	7 days/week
	<b>52</b> weeks/year	8,760 hours/year
6.	Operating Capacity/Schedule Comment:	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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

#### **Emission Point Description and Type**

1. Identification of Point on I Flow Diagram: <b>L-06</b>	Plot Plan or	2. Emission Point 7 1	Гуре Code:		
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:	6. Stack Height	•	7. Exit Diameter:		
Н	<b>200</b> feet		<b>1.5</b> feet		
8. Exit Temperature: <b>200</b> °F	9. Actual Volumetric Flow Rate: 2,600 acfm		10. Water Vapor: %		
11. Maximum Dry Standard F 2,038 dscfm	Tow Rate:	12. Nonstack Emissi feet	on Point Height:		
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point I Latitude (DD/M	_atitude/Longitude M/SS)		
North (km)	:	Longitude (DD/MM/SS)			
15. Emission Point Comment:					
Stack parameters based on Permit No. 0530021-011-AV					

#### EMISSIONS UNIT INFORMATION Section [8] of [36]

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

#### **<u>Segment Description and Rate:</u>** Segment <u>1</u> of <u>1</u>

1. Segment Description (Process/Fuel Type):

# Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Clinker Transfer

2.	2. Source Classification Code (SCC):		3. SCC Units:			
3-05-006-16		<b>Tons Cement Produced</b>				
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		6.	Estimated Annual Activity	
	83		727,080			Factor:
7.	Maximum % Sulfur:	8.	Maximum	% Ash:	9.	Million Btu per SCC Unit:
10	Segment Comment:					

10. Segment Comment:

Maximum annual rate is based on the Hourly rate and 8,760 hr/yr

#### Segment Description and Rate: Segment __ of __

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

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#### **E. EMISSIONS UNIT POLLUTANTS**

#### List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	017		EL

### 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:0.3 lb/hour1.31	tons/year	4. Synth	etically Limited? es x No		
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year					
6. Emission Factor: <b>0.015 gr/acf</b>			<ul><li>7. Emissions Method Code:</li></ul>		
Reference: 0530021-011-AV	1		U		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:		
tons/year	From:	Г	0:		
9.a. Projected Actual Emissions (if required):	9.b. Projected	Monitori	ng Period:		
tons/year	🔲 5 yea	rs 🗌 1	0 years		
10. Calculation of Emissions:					
11. Potential, Fugitive, and Actual Emissions Comment:					

#### 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.

#### <u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1. Ba	asis for Allowable Emissions Code:	2.	Future Effective Date of	Allowable		
R	RULE		Emissions:			
3. Al	llowable Emissions and Units:	4. Equivalent Allowable Emissions:				
0.	.015 gr/acf		<b>0.3</b> lb/hour	1.31 tons/year		
5. Me	5. Method of Compliance:					
A	Annual compliance testing using EPA Method 9 in lieu of Method 5					
6. Al	6. Allowable Emissions Comment (Description of Operating Method):					
B	Based on BACT and Permit No. 0530021-011-AV					
1						

#### Allowable Emissions _____ of _____

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

#### Allowable Emissions _____ of _____

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

#### EMISSIONS UNIT INFORMATION Section [8] of [36]

#### G. VISIBLE EMISSIONS INFORMATION

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

#### <u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:	
	VE05	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Method 9 Test;30 minutes		
5.	Visible Emissions Comment: Based on Pe	rmit No.0530021-011-AV	V and Rule 62-
29	7.310(7), F.A.C		

#### Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:	
	VE10	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance: Method 22; mont	hly [or less frequently as	s prescribed by 40
CI	FR 63.1350(a)(4) 1-minute		
_			
5.	Visible Emissions Comment: <b>Based on 40</b>	CFR 63.1348	

#### 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:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

#### Section [8] of [36]

#### I. EMISSIONS UNIT ADDITIONAL INFORMATION

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

1. Da	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) Attached, Document ID: <u>2010-FCB-EU10-I1</u> x Previously Submitted, atte <u>11/08/10</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)         Attached, Document ID:       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) Attached, Document ID: <u>2010-FCB-O&amp;M</u> x Previously Submitted, Date <u>11/08/10</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)
	Attached, Document ID: <u>2010-FCB-O&amp;M</u> $x$ Previously Submitted, Date <u>11/08/10</u> 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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10 Not Applicable
6.	Compliance Demonstration Reports/Records:
0.	Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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.	7. Other Information Required by Rule or Statute:		
	Attached, Document ID:	x Not Applicable	

#### **EMISSIONS UNIT INFORMATION** Section [8] [36] of

#### 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)):				
	Attached, Document ID: Not Applicable				
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-				
	212.500(4)(f), F.A.C.):				
	Attached, Document ID: Not Applicable				
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)				
	Attached, Document ID: Not Applicable				
Ac	Additional Requirements for Title V Air Operation Permit Applications				
1.	Identification of Applicable Requirements:				

	Attached, Document ID:2010-FCB-EU	1-ITV1 (submitted 11/08/2010)
2.	Compliance Assurance Monitoring:	
	X Attached, Document ID: Refer comment	Not Applicable
3.	Alternative Methods of Operation:	
	Attached, Document ID:	x Not Applicable
4.	Alternative Modes of Operation (Emissions	Trading):
	Attached, Document ID:	x Not Applicable

#### **Additional Requirements Comment**

The Clinker Storage Silos (EU 010) is subject to 40 CFR 63, Subpart LLL which is a post 1990 National Emission Standard for Air pollutants (NESHAP) for PM. Therefore CAM does not apply for PM.

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#### **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 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 [36]

#### A. GENERAL EMISSIONS UNIT INFORMATION

#### **<u>Title V Air Operation Permit Emissions Unit Classification</u>**

1. Regulated or Unre or renewal Title V permit or FESOP	. 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 emissions unit The emissions unregulated en	<ul> <li>The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</li> <li>The emissions unit addressed in this Emissions Unit Information Section is an</li> </ul>			
Emissions Unit Desc	ription and Status			
1. Type of Emissions	S Unit Addressed in this	Section: (Check one)		
This Emission process or pro- which has at le	s Unit Information Sect duction unit, or activity, east one definable emiss	ion addresses, as a single which produces one or ion point (stack or vent)	e emissions unit, a single more air pollutants and	
This Emission of process or p point (stack or	s Unit Information Sect production units and active vent) but may also proc	ion addresses, as a single vities which has at least luce fugitive emissions.	e emissions unit, a group one definable emission	
This Emission more process of	s Unit Information Section production units and a	ion addresses, as a single activities which produce	e emissions unit, one or fugitive emissions only.	
2. Description of Em	issions Unit Addressed	in this Section: Gypsu	m and Limestone Bins	
(L-08)				
3 Emissions Unit Id	entification Number 0	11		
4. Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit	
Status Code:	Construction	Date:	Major Group	
Α	Date:		SIC Code:	
8. Federal Program A	Applicability: (Check al	l that apply)		
Acid Rain Uni	t			
CAIR Unit				
9. Package Unit:				
Manufacturer:		Model Number:		
10. Generator Namep	ate Rating: MW			
11. Emissions Unit Comment: This emissions unit is an activity of gypsum and limestone being stored and transferred.				

Section [9]

#### **EU011 Gypsum and Limestone Bins**

#### **Emissions Unit Control Equipment/Method:** Control <u>1</u> of <u>1</u>

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- 1. Control Equipment/Method Description: **Baghouse-Medium Temperature**
- 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 [9] of [36]

#### **B. EMISSIONS UNIT CAPACITY INFORMATION**

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

#### **Emissions Unit Operating Capacity and Schedule**

1.	Maximum Process or Throughput Rate: 75 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:	
	<b>24</b> hours/day	7 days/week
	<b>52</b> weeks/year	8,760 hours/year
6.	Operating Capacity/Schedule Comment:	

### C. EMISSION POINT (STACK/VENT) INFORMATION

### (Optional for unregulated emissions units.)

### **Emission Point Description and Type**

1. Identification of Point on I Elow Diagram: L 08	Plot Plan or	2. Emission Point	Гуре Code:		
Flow Diagram. L-08		1			
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:					
4. ID Numbers or Descriptio	ns of Emission Ur	nits with this Emission	n Point in Common:		
5. Discharge Type Code:	6. Stack Height 135 feet	:	7. Exit Diameter: 2.5 feet		
8. Exit Temperature: 100°F	9. Actual Volur <b>5,000</b> acfm	metric Flow Rate:	10. Water Vapor:		
11. Maximum Dry Standard F <b>3,920</b> dscfm	low Rate:	<ul><li>12. Nonstack Emission Point Height:</li><li>0 feet</li></ul>			
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point I Latitude (DD/MI	Latitude/Longitude M/SS)		
North (km)	:	Longitude (DD/MM/SS)			
15. Emission Point Comment:					
Stack parameters based	on Permit No. 05	30021-011-AV			

of

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

#### Segment Description and Rate: Segment <u>1</u> of <u>1</u>

[36]

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Raw Material Transfer

2.	Source Classification Code	e (SCC):	3. SCC Units:		
3-05-006-12		Tons Han	dled		
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity
	75	657,000			Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10	0 0				

10. Segment Comment:

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

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#### EU011 Gypsum and Limestone Bins

#### **E. EMISSIONS UNIT POLLUTANTS**

#### List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	017		EL

#### 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:0.6 lb/hour2.63	s tons/year	4. Synth	etically Limited? es x No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: <b>0.015 gr/acf</b>			7. Emissions Method Code:
Reference: 0530021-011-AV			U
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:
tons/year	From:	Т	<b>`</b> o:
9.a. Projected Actual Emissions (if required):	9.b. Projected	l Monitori	ng Period:
tons/year	🗌 5 yea	urs 🗌 1	0 years
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions C	omment:		

#### 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.

#### <u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

2. Future Effective Date of Allowable		
Emissions:		
4. Equivalent Allowable Emissions:		
<b>0.6</b> lb/hour <b>2.63</b> tons/year		
Annual compliance testing using EPA Method 9 in lieu of Method 5		
6. Allowable Emissions Comment (Description of Operating Method):		
011-AV		

#### Allowable Emissions _____ of _____

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

#### Allowable Emissions _____ of _____

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

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#### G. VISIBLE EMISSIONS INFORMATION

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

#### <u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE05	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % E	xceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ved:	min/hour
4.	Method of Compliance:		
	Method 9 annual Test;30 minutes		
5.	Visible Emissions Comment: Based on P	ermit No.0530021-011-A	V and Rule 62-
29	7.310(7), F.A.C		

#### Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype:	Emissions Subtype:2. Basis for Allowable Opacity:	
	VE10	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: <b>10</b> % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance: Method 22; mont	hly [or less frequently as	s prescribed by 40
CI	FR 63.1350(a)(4) 1-minute		
		~~~~	
5.	Visible Emissions Comment: Based on 40	CFR 63.1348	

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:	Rule 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:	Rule 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] [36]

of

EU011 Gypsum and Limestone Bins

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Da	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) Attached, Document ID: 2010-FCB-EU11-I1 x Previously Submitted, attended to the term of
2	Fuel Analysis or Specification: (Dequired for all normit amplications, event Title V air
2.	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) Attached, Document ID: 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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10
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)
	Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10
	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)
	Attached, Document ID: 2010 -FCB-O&M x Previously Submitted, Date $11/08/10$
	Not Applicable
6.	Compliance Demonstration Reports/Records:
	Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Previously Submitted Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	Not Applicable
	Note: For FESOP applications, all required compliance demonstration records/reports must be
	submitted at the time of application. For little v air operation permit applications, all required
	compliance demonstration reports/records must be submitted at the time of application, or a
1	compliance plan must be submitted at the time of application.

7.	Other Information Required by Rule	or Statute:
	Attached, Document ID:	x Not Applicable

of

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

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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)):
	Attached, Document ID: Not Applicable
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):
	Attached, Document ID: Not Applicable
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)
	Attached, Document ID: Not Applicable
Ad	lditional Requirements for Title V Air Operation Permit Applications
1.	Identification of Applicable Requirements:

Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010) 2. Compliance Assurance Monitoring: X Attached, Document ID: <u>Refer comment</u> Not Applicable 3. Alternative Methods of Operation: Attached, Document ID: **x** Not Applicable 4. Alternative Modes of Operation (Emissions Trading): Attached, Document ID: **x** Not Applicable

Additional Requirements Comment

The Gypsum and Limestone Bins (EU 011) is subject to 40 CFR 63, Subpart LLL which is a post 1990 National Emission Standard for Air pollutants (NESHAP) for PM. Therefore CAM does not apply for PM.

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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 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.
EU012 Silo Discharge

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A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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 emissions unit.	unit addressed in this E	nissions Unit Informati	on Section is a regulated		
	The emissions unregulated em	unit addressed in this En issions unit.	nissions Unit Informati	on Section is an		
Em	issions Unit Descr	ription and Status				
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)			
	x This Emissions	Unit Information Section	on addresses, as a single	e emissions unit, a single		
	process or prod which has at le	luction unit, or activity, ast one definable emissi	which produces one or a on point (stack or vent)	more air pollutants and		
	This Emissions of process or pr point (stack or	s Unit Information Section roduction units and active vent) but may also prod	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission		
	This Emissions more process o	Unit Information Secti r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.		
2.	Description of Emi	issions Unit Addressed	in this Section: Silo Dis	scharge(M-08)		
3.	Emissions Unit Ide	entification Number: 01	2			
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit		
	Status Code:	Construction	Date:	Major Group		
	Δ	Date:		32.		
8	Federal Program A	nnlicability: (Check all	that apply)	52		
0.	Acid Rain Unit		(inter uppiy)			
	CAIR Unit	-				
9.	Package Unit:					
	Manufacturer: Model Number:					
10.	Generator Namepla	ate Rating: MW				
11.	Emissions Unit Co	mment: This emissions	unit is an activity of c	linker , gypsum or		
	limestone being tr	ransferred from their s	ilos.			

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Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

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

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [10] of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 122 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:	

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: M-08		 Emission Point Type Code: 			
3 Descriptions of Emission	Points Comprising	this Emissions Unit	for VE Tracking:		
			for the fracting.		
4. ID Numbers or Descriptio	ns of Emission Ur	nits with this Emissio	n Point in Common:		
5. Discharge Type Code:	6. Stack Height		7. Exit Diameter:		
Н	135 feet		2.5 feet		
8. Exit Temperature:	9. Actual Volur	metric Flow Rate:	10. Water Vapor:		
100°F	9,000 acfm	Γ	%		
11. Maximum Dry Standard F	low Rate:	12. Nonstack Emission Point Height:			
8,316 dsctm	1. /		r.,•, 1/T •, 1		
7 Tone: Fast (km):	rdinates	I 4. Emission Point J	Latitude/Longitude		
North (km)	1.	Lantude (DD/M	MM/SS)		
15 Emission Point Comment	•	Longitude (DD)			
	•				
Stack parameters based	on Permit No. 05	30021-011-AV			

EMISSIONS UNIT INFORMATION Section [10] of [36]

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.	2. Source Classification Code (SCC):		3. SCC Units:		
3-05-006-12		Tons Handled			
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		6.	Estimated Annual Activity
	122	1,068,720			Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10					

10. Segment Comment:

Maximum annual rate is based on the Hourly rate and 8,760 hr/yr

Segment Description and Rate: Segment __ of __

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

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EU012 Silo Discharge

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018		EL

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: 1.2 lb/hour 5.20	6 tons/year	4. Synth	etically Limited? es 🕱 No		
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year					
6. Emission Factor: 0.015 gr/acf			7. Emissions Method Code:		
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline From:	24-month	Period:		
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected	l Monitori ars 🔲 1	ng Period: 0 years		
 10. Calculation of Emissions: 11. Potential, Fugitive, and Actual Emissions C 	omment:				

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of A	Allowable	
	RULE		Emissions:		
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		issions:	
	0.015 gr/acf		1.2 lb/hour	5.26 tons/year	
5.	5. Method of Compliance:				
	Annual compliance testing using EPA Method 9 in lieu of Method 5				
6.	6. Allowable Emissions Comment (Description of Operating Method):				
	Based on BACT and Permit No. 0530021-011-AV				

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

EMISSIONS UNIT INFORMATION Section [10] of [36]

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:	2. Basis for Allowable Opacity:	
	VE05	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % E	Exceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ved:	min/hour
4.	Method of Compliance:		
	Method 9 annual Test;30 minutes		
5.	Visible Emissions Comment: Based on P 297.310(7), F.A.C	ermit No.0530021-011-A`	V and Rule 62-

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype: VE10	2. Basis for Allowable	Opacity:
3.	Allowable Opacity:	vantional Conditiona	0/
	Maximum Period of Excess Opacity Allow	ved:	[%] min/hour
4.	Method of Compliance: Method 22; mon CFR 63.1350(a)(4) 1-minute	thly [or less frequently a	s prescribed by 40
5.	Visible Emissions Comment: Based on 4) CFR 63.1348	

H. CONTINUOUS MONITOR INFORMATION

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

Co	Continuous Monitoring System: Continuous Monitor of					
1.	Parameter Code:	2. Pollutant(s):				
3.	CMS Requirement:	Rule 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:	Rule Other
4.	Monitor Information	
	Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

EU012 Silo Discharge

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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) Attached, Document ID: 2010-FCB-EU12-II x Previously Submitted.
Da	ite <u>11/08/10</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) Attached, Document ID: 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) Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date <u>11/08/10</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)
	Attached, Document ID: 2010 -FCB-O&M x Previously Submitted, Date $11/08/10$
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) Attached, Document ID: 2010-FCB-O&M X Previously Submitted, Date11/08/10 Not Applicable
6.	Compliance Demonstration Reports/Records:
	Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date 03/15/2011 Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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.	7. Other Information Required by Rule or Statute:	
	Attached, Document ID:	x Not Applicable

EMISSIONS UNIT INFORMATION Section [10] of [36]

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)):				
	Attached, Document ID: Not Applicable				
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-				
	212.500(4)(f), F.A.C.):				
	Attached, Document ID: Not Applicable				
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)				
	Attached, Document ID: Not Applicable				
Ad	Additional Requirements for Title V Air Operation Permit Applications				
1.	Identification of Applicable Requirements:				

1.	Identification of Applicable Requirements:
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)
2.	Compliance Assurance Monitoring:
	X Attached, Document ID: <u>Refer comment</u> Not Applicable
3.	Alternative Methods of Operation:
	Attached, Document ID: X Not Applicable
4.	Alternative Modes of Operation (Emissions Trading):
	Attached, Document ID: X Not Applicable

Additional Requirements Comment

The Silo Discharge (EU 012) is subject to 40 CFR 63, Subpart LLL which is a post 1990 National Emission Standard for Air pollutants (NESHAP) for PM. Therefore CAM does not apply for PM.

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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 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.

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A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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.					
	unregulated em	nissions unit.				
Er	nissions Unit Descr	iption and Status				
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)			
	This Emissions process or proc which has at le	S Unit Information Secti luction unit, or activity, ast one definable emissi	on addresses, as a single which produces one or on point (stack or vent)	e emissions unit, a single more air pollutants and		
	This Emissions of process or p point (stack or	S Unit Information Section roduction units and active vent) but may also prod	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission		
	This Emissions more process o	Unit Information Section r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.		
2.	Description of Em	issions Unit Addressed i	in this Section: Finish	Mill (N-13)		
3.	Emissions Unit Ide	entification Number: 01	3			
4.	Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:		
-	A			32		
8.	Federal Program A	pplicability: (Check all	that apply)			
0	Package Unit:					
).	Manufacturer:		Model Number:			
10	. Generator Namepla	ate Rating: MW				
11	11. Emissions Unit Comment: This emissions unit combines clinker, limestone and gypsum to form cement.					

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Emissions Unit Control Equipment/Method: Control **1** of **1**

- 1. Control Equipment/Method Description: Baghouse-Medium Temperature
- 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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [11] of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 125 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:	

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: N-13		2. Emission Point Type Code: 1			
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:					
4. ID Numbers or Descriptio	ns of Emission Ur	nits with this Emission	n Point in Common:		
5. Discharge Type Code: V	 6. Stack Height 70 feet 	:	7. Exit Diameter: 5.0 feet		
8. Exit Temperature: 210°F	9. Actual Volut 40,000 acfm	metric Flow Rate:	10. Water Vapor: %		
11. Maximum Dry Standard F 30,892 dscfm	low Rate:	12. Nonstack Emission Point Height: 0 feet			
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)			
North (km)	:	Longitude (DD/MM/SS)			
15. Emission Point Comment:					
15. Emission Point Comment: Stack parameters based on Permit No. 0530021-011-AV					

EMISSIONS UNIT INFORMATION Section [11] of [36]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>1</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process); Clinker Grinding

2. Source Classification Code (SCC):		3. SCC Units:				
3-05-006-17		Tons Cement Produced				
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Es	stimated Annual Activity		
125 876,000			Fa	actor:		
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. M	lillion Btu per SCC Unit:		
10. Segment Comment:						
Based on Permit No.0530021-011-AV						

Segment Description and Rate: Segment _____ of ____

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

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	017		EL
PM ₁₀	017		NS

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:2. Total Percent Effici		ency of Control:	
PM			
3. Potential Emissions:		4. Synth	netically Limited?
5.1 lb/hour 22.3 4	tons/year	Y	es x No
5. Range of Estimated Fugitive Emissions (as	s applicable):		
to tons/year			
6. Emission Factor: 0.015 gr/acf			7. Emissions
			Method Code:
Reference: 0530021-011-AV			0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:
tons/year	From:	Т	Го:
9.a. Projected Actual Emissions (if required):	9.b. Projected	l Monitori	ng Period:
tons/year	🗌 5 yea	rs 🗌 1	0 years
10. Calculation of Emissions:			
11 Potential Eugitive and Actual Emissions Comment:			
11. I Ochuai, I ugitive, and Actual Emissions Comment.			

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable			
	RULE	Emissions:			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		e Emissions:	
	0.015 gr/acf		5.1 lb/hour	22.34 tons/year	
5.	5. Method of Compliance:				
	Annual compliance testing using EPA Method 9 in lieu of Method 5				
6.	6. Allowable Emissions Comment (Description of Operating Method):				
	Based on BACT and Permit No. 0530021-011-AV				

Allowable Emissions _____ of _____

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		e of Allowable
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		e Emissions:
			10/11001	tons/year
5.	Method of Compliance:			
6.	Allowable Emissions Comment (Description	of	Operating Method):	

EMISSIONS UNIT INFORMATION Section [11] of [36]

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE05	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Method 9 annual Test;30 minutes		
5. 29	Visible Emissions Comment: Based on Pe 7.310(7), F.A.C	rmit No.0530021-011-AV	V and Rule 62-

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:
VE10	xRuleOther
3. Allowable Opacity:	
Normal Conditions: 10 % Ex	cceptional Conditions: %
Maximum Period of Excess Opacity Allowe	ed: min/hour
4. Method of Compliance: Method 22; month CFR 63.1350(a)(4) 1-minute	hly [or less frequently as prescribed by 40
5. Visible Emissions Comment: Based on 40	CFR 63.1347

EMISSIONS UNIT INFORMATIONSection [11]of [36]

H. CONTINUOUS MONITOR INFORMATION

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

Co	<u>Continuous Monitoring System:</u> Continuous Monitor of			
1.	Parameter Code:	2. Pollutant(s):		
3.	CMS Requirement:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

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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) Attached, Document ID: 2010-FCB-EU13-II x Previously Submitted,
Da	tte <u>11/08/10</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) Attached, Document ID: 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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10
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)
	Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date <u>11/08/10</u>
	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) Attached, Document ID: <u>2010-FCB-O&M</u> X Previously Submitted, Date <u>11/08/10</u>
	Not Applicable
6.	Compliance Demonstration Reports/Records:
	Test Date(s)/Pollutant(s) Tested:
	x Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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.	7. Other Information Required by Rule or Statute:	
	Attached, Document ID:	x Not Applicable

EMISSIONS UNIT INFORMATION Section [11] of [36]

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)):		
	Attached, Document ID: Not Applicable		
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-		
	212.500(4)(f), F.A.C.):		
	Attached, Document ID: Not Applicable		
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities		
	only)		
	Attached, Document ID: Not Applicable		
Ad	lditional Requirements for Title V Air Operation Permit Applications		
1.	Identification of Applicable Requirements:		
1	Attached Decument ID: 2010 ECD EU1 ITV1 (and mitted 11/00/2010)		

Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)
Compliance Assurance Monitoring:

Attached, Document ID: Refer comment Not Applicable

Alternative Methods of Operation:

Attached, Document ID: Not Applicable

Alternative Modes of Operation (Emissions Trading):

Attached, Document ID: X Not Applicable

Additional Requirements Comment

The Finish Mill (EU 013) is subject to 40 CFR 63, Subpart LLL which is a post 1990 National Emission Standard for Air pollutants (NESHAP) for PM. Therefore CAM does not apply for PM.

Section [12] of [36] EU014 Cement Storage Silo Nos. 1 & 2 Discharge 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 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.

Section [12] of [36] EU014 Cement Storage Silo Nos. 1 & 2 Discharge System

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1. Regulated or Unre or renewal Title V permit or FESOP	. 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	The emissions unit addressed in this Emissions Unit Information Section is a regulated			
The emissions unregulated er	unit addressed in this E nissions unit.	missions Unit Information	on Section is an	
Emissions Unit Desc	ription and Status			
1. Type of Emission	s Unit Addressed in this	Section: (Check one)		
This Emission process or pro which has at le	s Unit Information Secti duction unit, or activity, east one definable emissi	on addresses, as a single which produces one or a on point (stack or vent).	e emissions unit, a single more air pollutants and	
This Emission of process or p point (stack or	s Unit Information Section production units and active vent) but may also prod	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission	
This Emission more process	s Unit Information Sectior production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.	
2. Description of Em Nos. 1 & 2 Discharge	nissions Unit Addressed : e System (Q-17)	in this Section: Cement	t Storage Silo	
3. Emissions Unit Id	entification Number: 01	4		
4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:	
A			32	
8. Federal Program	Applicability: (Check all	that apply)		
\Box Acid Kain Unit	lt			
9 Package Unit:				
Manufacturer:		Model Number:		
10. Generator Namep	10. Generator Nameplate Rating: MW			
11. Emissions Unit Comment: This emissions unit activity is the unloading of cement from				
the three storage	the three storage silos.			

Section [12] of [36] EU014 Cement Storage Silo Nos. 1 & 2 Discharge System_

Emissions Unit Control Equipment/Method: Control 1 of 1

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

Section [12] of [36] EU014 Cement Storage Silo Nos. 1 & 2 Discharge System

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 300 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:	

Section [12] of [36] EU014 Cement Storage Silo Nos. 1 & 2 Discharge System

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

 Identification of Point on Plot Plan or Flow Diagram: Q-17 		2. Emission Point 7 1	Гуре Code:	
3. Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:	
4. ID Numbers or Descriptio	ns of Emission Ur	nits with this Emission	1 Point in Common:	
5. Discharge Type Code: H	 6. Stack Height 50 feet 	::	7. Exit Diameter:1.5 feet	
8. Exit Temperature: 160 °F	9. Actual Volur 3,200 acfm	metric Flow Rate:	10. Water Vapor: %	
11. Maximum Dry Standard F 2,671 dscfm	low Rate:	12. Nonstack Emission Point Height: feet		
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point I Latitude (DD/M	Latitude/Longitude M/SS)	
North (km)):	Longitude (DD/I	MM/SS)	
15. Emission Point Comment:				
Stack parameters based	on Permit No. 05	30021-011-AV		

Section [12] of [36] EU014 Cement Storage Silo Nos. 1 & 2 Discharge System

D. SEGMENT (PROCESS/FUEL) INFORMATION

<u>Segment Description and Rate:</u> Segment <u>1</u> of <u>1</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Cement Loadout

2.	Source Classification Code	3. SCC Units: Tons Cement Produced			
	3-05-006-19				
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		6.	Estimated Annual Activity
	300	2,628,000			Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10	C				

10. Segment Comment:

Maximum annual rate is based on the Hourly rate and 8,760 hr/yr

Segment Description and Rate: Segment _____ of ____

1. Segment Description (Pro	cess/Fuel Type):			
2. Source Classification Code	e (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:				

Section [12] of [36] EU014 Cement Storage Silo Nos. 1 & 2 Discharge System

E. EMISSIONS UNIT POLLUTANTS

1. Pollutant Emitted 2.Primary Control Device Code 3. Secondary Control Device Code 4. Pollutant Regulatory Code PM 018 EL Image: Image:

List of Pollutants Emitted by Emissions Unit

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 Efficient	Total Percent Efficiency of Control:				
3. Potential Emissions:	4. Syntl	hetically Limited?				
0.4 lb/hour 1.7	5 tons/year	(es 🕱 No				
5. Range of Estimated Fugitive Emissions (a to tons/year	s applicable):					
6. Emission Factor: 0.015 gr/acf		7. Emissions				
		Method Code:				
Reference: 0530021-011-AV		0				
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:				
tons/year	From:	Го:				
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ing Period:				
tons/year	0 years					
10. Calculation of Emissions:						
11. Potential, Fugitive, and Actual Emissions Comment:						

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code: RULE	2.	2. Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units: 0.015 gr/acf	4.	4. Equivalent Allowable Emissions: 0.4 lb/hour 1.75 tons/year		
5.	5. Method of Compliance: Annual compliance testing using EPA Method 9 in lieu of Method 5				
6.	 Allowable Emissions Comment (Description of Operating Method): Based on BACT and Permit No. 0530021-011-AV 				

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

-				
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Emissions:	of Allowable
3	Allowable Emissions and Units:	4 Equivalent Allowable Emissions		
5.	The wall child child child.	••	Equivalent i mo wabie i	Liniborono.
			lb/hour	tons/year
5.	Method of Compliance:			
6.	Allowable Emissions Comment (Description	of (Operating Method):	

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Emissions:	of Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable I lb/hour	Emissions: tons/year
5.	Method of Compliance:			
6.	Allowable Emissions Comment (Description	of (Dperating Method):	
Section [12] of [36] EU014 Cement Storage Silo Nos. 1 & 2 Discharge 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:	2. Basis for Allowable	Opacity:
	VE05	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Method 9 Annual Test;30 minutes		
5. 29	Visible Emissions Comment: Based on Pe 7.310(7), F.A.C	rmit No.0530021-011-A	V and Rule 62-

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype:2. Basis for Allowable Opacity:		
VE10	X Rule Dther	
3. Allowable Opacity:		
Normal Conditions: 10 % Ex	ceptional Conditions: %	
Maximum Period of Excess Opacity Allowe	ed: min/hour	
4. Method of Compliance: Method 22; monthly [or less frequently as prescribed by 40 CFR 63.1350(a)(4) 1-minute		
5. Visible Emissions Comment: Based on 40	CFR 63.1348	

Section [12] of [36] EU014 Cement Storage Silo Nos. 1 & 2 Discharge 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
1. Parameter Code:	2. Pollutant(s):

1.	Farameter Code.	2. Fonutant(s).
3.	CMS Requirement:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

Section [12] of [36] EU014 Cement Storage Silo Nos. 1 & 2 Discharge System

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Da	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) Attached, Document ID: 2010-FCB-EU14-I1 x Previously Submitted, attached, Document ID: 2010-FCB-EU14-II x Previously Submitted, Attached, 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) Attached, Document ID: 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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10
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)
	Attached, Document ID: <u>2010-FCB-O&M x</u> Previously Submitted, Date <u>11/08/10</u> 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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10
	Not Applicable
6.	Compliance Demonstration Reports/Records:
	Test Date(s)/Pollutant(s) Tested:
	x Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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:	x Not Applicable

Section [12] of [36] EU014 Cement Storage Silo Nos. 1 & 2 Discharge 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)):		
	Attached, Document ID: Not Applicable		
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-		
	212.500(4)(f), F.A.C.):		
	Attached, Document ID: Not Applicable		
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)		
	Attached, Document ID: Not Applicable		
Ad	Additional Requirements for Title V Air Operation Permit Applications		
1.	Identification of Applicable Requirements:		

1.	Identification of Applicable Requirements:
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)
2.	Compliance Assurance Monitoring:
	X Attached, Document ID: <u>Refer comment</u> Not Applicable
3.	Alternative Methods of Operation:
	Attached, Document ID: X Not Applicable
4.	Alternative Modes of Operation (Emissions Trading):
	Attached, Document ID: X Not Applicable

Additional Requirements Comment

The Cement Storage Silo Nos. 1 & 2 Discharge System (EU 014) is subject to 40 CFR 63, Subpart LLL which is a post 1990 National Emission Standard for Air pollutants (NESHAP) for PM. Therefore CAM does not apply for PM.

EU015 Cement Storage Silo Nos. 1 & 2

Section [13] of [36]

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 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 INFORMATIONSection [13]of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1. Regulated or Unre or renewal Title V permit or FESOP	. 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 emissions unit	The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.				
unregulated er	nissions unit.	missions Unit informati	on Section is an		
Emissions Unit Desc	ription and Status				
1. Type of Emission	s Unit Addressed in this	Section: (Check one)			
This Emission process or pro which has at h	s Unit Information Secti duction unit, or activity, east one definable emiss	ion addresses, as a single which produces one or ion point (stack or vent)	e emissions unit, a single more air pollutants and		
This Emission of process or j point (stack or	s Unit Information Section production units and action (vent) but may also prod	ion addresses, as a single vities which has at least luce fugitive emissions.	e emissions unit, a group one definable emission		
This Emission more process	s Unit Information Section production units and a	ion addresses, as a single activities which produce	e emissions unit, one or fugitive emissions only.		
2. Description of En Nos. 1 & 2 (Q-15)	 Description of Emissions Unit Addressed in this Section: Cement Storage Silo Nos. 1 & 2 (Q-15) 				
3. Emissions Unit Id	entification Number: 01	15			
4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:		
A <u> <u> P</u> <u> Fadaral</u> Dragram</u>	Appliachility, (Chaoly of	1 that apply)	32		
o. Federal Program	8. Federal Program Applicability: (Check all that apply)				
9. Package Unit:					
Manufacturer:		Model Number:			
10. Generator Nameplate Rating: MW					
11. Emissions Unit Comment: This emissions unit is an activity of cement being pneumatically transferred to two storage silos from the finish mill.					

Section [13]

Emissions Unit Control Equipment/Method: Control **1** of **1**

[36]

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

of

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATIONSection [13]of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 125 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:	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

 Identification of Point on Plot Plan or Flow Diagram: Q-15 		2. Emission Point 7 1	Гуре Code:	
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: H	 Stack Height 200 feet 	::	7. Exit Diameter:2.0 feet	
8. Exit Temperature: 180 °F	9. Actual Volu 7,400 acfm	metric Flow Rate:	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: 5,983 dscfm		12. Nonstack Emission Point Height: feet		
13. Emission Point UTM Coordinates Zone: East (km):		14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)		
North (km)	:	Longitude (DD/MM/SS)		
15. Emission Point Comment:	•			
Stack parameters based on Permit No. 0530021-011-AV				

of

Section [13]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>1</u>

[36]

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Cement Silos

2.	2. Source Classification Code (SCC):3-05-006-18		3. SCC Units: Tons Cement Produced			
4.	Maximum Hourly Rate: 125	5.	5. Maximum Annual Rate: 876,000		6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8.	Maximum	% Ash:	9.	Million Btu per SCC Unit:
10	10. Segment Comment:					

Maximum annual rate is based on Permit No.0530021-011-AV

Segment Description and Rate: Segment __ of __

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

EU015 Cement Storage Silo Nos. 1 & 2

Section [13] of [36]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018		EL

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 Efficie	ency of Control:		
3. Potential Emissions:	4. Synth	netically Limited?		
1.0 lb/hour 4.3	B tons/year Y	es 🕱 No		
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 0.015 gr/acf		7. Emissions		
		Method Code:		
Reference: 0530021-011-AV		0		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:		
tons/year	From:	Го:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:			
tons/year	5 years 10 years			
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions C	omment:			

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable	
	RULE		Emissions:	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:	
	0.015 gr/acf		1.0 lb/hour 4.38 tons/year	
5.	Method of Compliance:			
	Annual compliance testing using EPA Me	tho	1 9 in lieu of Method 5	
6.	6. Allowable Emissions Comment (Description of Operating Method):			
	Based on BACT and Permit No. 0530021-011-AV			

Allowable Emissions _____ of _____

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

Allowable Emissions _____ of _____

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

EMISSIONS UNIT INFORMATION Section [13] of [36]

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE05	X Rule	☐ Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Method 9 Test annually;30 minutes		
5. 29	Visible Emissions Comment: Based on Pe 7.310(7), F.A.C	rmit No.0530021-011-AV	/ and Rule 62-

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:	
	VE10	x Rule	Other
3.	Allowable Opacity:	·	
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4. CI	Method of Compliance: Method 22; mont FR 63.1350(a)(4) 1-minute	hly [or less frequently a	s prescribed by 40
5.	Visible Emissions Comment: Based on 40	CFR 63.1348	

H. CONTINUOUS MONITOR INFORMATION

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

<u>Continuous Monitoring System:</u> Continuous Monitor of			
1. Parameter Code:	2. Pollutant(s):		
3. CMS Requirement:	Rule 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:	Rule 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] [36]

of

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Da	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) Attached, Document ID: 2010-FCB-EU15-I1 x Previously Submitted, atte <u>11/08/10</u>
2	Fuel Analysis or Specification: (Required for all permit applications, except Title V air
2.	 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) Attached, Document ID: 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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10
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) Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date<u>11/08/10</u>
	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) Attached, Document ID: 2010-FCB-O&M X Previously Submitted, Date11/08/10
	Not Applicable
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: 103/15/2011
	Test Date(s)/Pollutant(s) Tested: VE
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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.
L	1 II

7.	Other Information Required by Rule	or Statute:
	Attached, Document ID:	x Not Applicable

of

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Section [13]

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)):				
	Attached, Document ID: Not Applicable				
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-				
	212.500(4)(f), F.A.C.):				
	Attached, Document ID: Not Applicable				
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities				
	only)				
	Attached, Document ID: Not Applicable				
Ad	Additional Requirements for Title V Air Operation Permit Applications				
1.	Identification of Applicable Requirements:				
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)				

- Compliance Assurance Monitoring:

 X Attached, Document ID: <u>Refer comment</u> Not Applicable

 Alternative Methods of Operation:

 Attached, Document ID: ______ Not Applicable

Additional Requirements Comment

The Cement Storage Silo Nos. 1 & 2 (EU 015) is subject to 40 CFR 63, Subpart LLL which is a post 1990 National Emission Standard for Air pollutants (NESHAP) for PM. Therefore CAM does not apply for PM.

EMISSIONS UNIT INFORMATIONSection [14]of [36]

EU 019 Finish Mill Feed Belt

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 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 INFORMATIONSection [14]of [36]

EU 019 Finish Mill Feed Belt

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1.	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.)						
	X The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.						
	unregulated em	unit addressed in this E nissions unit.	missions Unit Informat	ion Section is an			
Em	nissions Unit Descu	ription and Status					
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)				
	X This Emissions process or proc which has at le	s Unit Information Secti luction unit, or activity, ast one definable emiss	on addresses, as a single which produces one or ion point (stack or vent	le emissions unit, a single more air pollutants and).			
	This Emissions of process or p point (stack or	s Unit Information Secti roduction units and acti vent) but may also proc	on addresses, as a singl vities which has at leas luce fugitive emissions.	le emissions unit, a group t one definable emission			
	This Emissions more process of	s Unit Information Section production units and a	on addresses, as a singlactivities which produce	le emissions unit, one or e fugitive emissions only.			
2.	Description of Em	issions Unit Addressed	in this Section:				
FIN	ush Mill Feed Belt	(I VI-U 5)					
3.	Emissions Unit Ide	entification Number: 01	19				
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit			
	Status Code:	Construction	Date:	Major Group			
Α		Date:		SIC Code:			
8	Federal Program A	nnlicability: (Chack al	that apply) N/A	52			
0.	Acid Rain Unit	ter	i that apply) NA				
		L					
	Hg Budget Uni	it					
9.	Package Unit:						
	Manufacturer:		Model Number:				
10.	Generator Namepl	ate Rating: MW					
11.	Emissions Unit Co	omment:					
Thi Fin	is emission unit is hish Mill	an activity of transfer	ring clinker, gypsum/s	slag, or limestone to the			
1.10							

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EU 019 Finish Mill Feed Belt

Emissions Unit Control Equipment/Method: Control **1** of **1**

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1. Control Equipment/Method Description: Baghouse – Low Temperature

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 ____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [14] of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 120 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:	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on I Flow Diagram: M-05	Plot Plan or	2. Emission Point 7 1	Гуре Code:
3. Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:
4. ID Numbers or Description	ns of Emission Ur	nits with this Emission	n Point in Common:
5. Discharge Type Code: H	 Stack Height 29 feet 	:	 Exit Diameter: 2.0 feet
8. Exit Temperature: 85 °F	 9. Actual Volut 9,000 acfm 	metric Flow Rate:	10. Water Vapor: %
11. Maximum Dry Standard F 8,820 dscfm	low Rate:	12. Nonstack Emissi feet	ion Point Height:
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point I Latitude (DD/M	Latitude/Longitude M/SS)
North (km)	:	Longitude (DD/I	MM/SS)
15. Emission Point Comment:			

of

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D. SEGMENT (PROCESS/FUEL) INFORMATION

<u>Segment Description and Rate:</u> Segment <u>1</u> of <u>1</u>

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1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Finish Grinding Mill Feed Belt

2.	Source Classification Code (SCC):		3. SCC Units:				
	3-05-006-27			Tons Mate	rial	Processed	
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity	
	120		1,051,200			Factor:	
7.	Maximum % Sulfur:	8.	Maximum 9	% Ash:	9.	Million Btu per SCC Unit:	
10	. Segment Comment:						
An	Annual rate based on the hourly rate and 8,760 hr/yr.						
1							

Segment Description and Rate: Segment ____ of ____

1. Segment Description (Pro	cess/Fuel Type):			
2. Source Classification Cod	e (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:			•	

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EU 019 Finish Mill Feed Belt

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018		EL

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

Pollutant Emitted: 2. Total Percent Efficiency of Control:			ency of Control:		
	<u> </u>	A Synth	etically Limited?		
$\begin{array}{c} \textbf{3.} \text{Potential Emissions:} \\ \textbf{1.16 lb/hour} \textbf{5.08} \end{array}$	8 tons/year		es \mathbf{X} No		
5. Range of Estimated Fugitive Emissions (as	s applicable):				
to tons/year					
6. Emission Factor: 1.16 lb/hr			7. Emissions		
Reference: Permit No. 0530021-011-AV			0		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:		
tons/year	From:	Т	To:		
9.a. Projected Actual Emissions (if required):	9.b. Projected	Monitori	ng Period:		
tons/year	5 year	rs 1	0 years		
10. Calculation of Emissions:					
11. Potential, Fugitive, and Actual Emissions Comment:					
Potential annual emissions are on a rolling 12-month basis.					

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable				
	RULE		Emissions:				
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:				
	1.16 lb/hr		1.16 lb/hour 5.08 tons/year				
5.	Method of Compliance:						
	Annual EPA Method 9						
6.	6. Allowable Emissions Comment (Description of Operating Method):						
Ba	Based on Permit No. 0530021-011-AV and BACT. Annual emission are based on a rolling						
12	12-month basis.						

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

Allowable Emissions _____ of _____

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

EMISSIONS UNIT INFORMATION Section [14] of [36]

EU 019 Finish Mill Feed Belt

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:				
VE05	X Rule				
3. Allowable Opacity:					
Normal Conditions: 5 % Exc	ceptional Conditions: %				
Maximum Period of Excess Opacity Allower	d: min/hour				
4. Method of Compliance:					
Annual Method 9, 30 minutes					
5. Visible Emissions Comment:					
Based on Permit No. 0530021-011-AV and Rule 62-297.310(7)(c), F.A.C.					

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>2</u> of <u>2</u>

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:			
	VE10	X Rule	Other			
3.	Allowable Opacity:					
	Normal Conditions: 10 % Ex	ceptional Conditions:	%			
	Maximum Period of Excess Opacity Allow	ed:	min/hour			
4.	Method of Compliance:					
M	Method 22; monthly [or less frequently as prescribed by 40 CFR 63.1350(a)(4)]] 1-minute					
5.	5. Visible Emissions Comment:					
Based on Permit 40 CFR 63.1348.						

EMISSIONS UNIT INFORMATION Section [14] of [36]

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:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

Section	[14]	of	[36]	EU 019 Finish Mill Feed Belt
I. EMISSIONS UNIT ADDITIONAL INFORMATION				
Additional Requirements for All Applications, Except as Otherwise Stated				

1. Da	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) Attached, Document ID: 2010-FCB-EU-19-II T Previously Submitted, te11/08/10
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) Attached, Document ID: 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) Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date<u>11/08/10</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) Attached, Document ID: 2010-FCB-O&M X Previously Submitted, Date11/08/10
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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date11/08/10
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: 03/15/2011 Test Date(s)/Pollutant(s) Tested: VE
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	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:	X Not Applicable

EMISSIONS UNIT INFORMATION Section [14] of [36]

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)):						
Attached, Document ID:	Not Applicable					
2. Good Engineering Practice Stack Height A	nalysis (Rules 62-212.400(4)(d) and 62-					
212.500(4)(f), F.A.C.):						
Attached, Document ID:	Not Applicable					
3. Description of Stack Sampling Facilities:	Required for proposed new stack sampling facilities					
only)						
Attached, Document ID:	Not Applicable					
Additional Requirements for Title V Air Op	peration Permit Applications					
1. Identification of Applicable Requireme	1 Identification of Applicable Requirements:					
Attached, Document ID: 2010-FCB-E	Attached, Document ID: <u>2010-FCB-EU01-ITV1 (submitted 11/08/2010)</u>					
2. Compliance Assurance Monitoring:						
Z. Compliance Assurance Monitoring: X Attached, Document ID: See comment	□ Not Applicable					
 2. Compliance Assurance Monitoring: X Attached, Document ID: See comment 3. Alternative Methods of Operation: 	Not Applicable					
 2. Compliance Assurance Monitoring: X Attached, Document ID: See comment 3. Alternative Methods of Operation: Attached, Document ID: 	Not Applicable X Not Applicable					

4. Alternative Modes of Operation (Emissions Trading):
Attached, Document ID: X Not Applicable

Additional Requirements Comment

The Finish Mill Feed Belt (EU 019) is subject to 40 CFR 63, Subpart LLL, which is a post-1990 National Emission Standard for Hazardous Air Pollutants (NESHAP), for PM. Therefore, CAM does not apply for this source.

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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 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.

EU 020 – Kiln No. 1

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A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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.)					
	X The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.					
	The emissions unregulated em	unit addressed in this En issions unit.	missions Unit Information	on Section is an		
Er	nissions Unit Descr	ription and Status				
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)			
	X This Emissions process or proc which has at le	S Unit Information Secti luction unit, or activity, ast one definable emissi	on addresses, as a single which produces one or point (stack or vent).	e emissions unit, a single more air pollutants and		
	This Emissions of process or p point (stack or	S Unit Information Secti roduction units and activ vent) but may also prod	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission		
	This Emissions more process o	Unit Information Secti r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.		
2.	Description of Emi	issions Unit Addressed	in this Section:			
Ce	ement Kiln 1, In-Li	ne Kiln/Raw Mill and	Clinker Cooler 1 with	Baghouse		
3.	Emissions Unit Ide	entification Number: 02	0			
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit		
	Status Code:	Construction	Date:	Major Group		
Α		Date:		SIC Code:		
0	Endoral Drogram A	nnliashility, (Chask all	that apply) N/A	32		
0.	□ Acid Rain Unit		(inat apply) IN/A			
		L .				
9.	Package Unit:					
	Manufacturer:		Model Number:			
10	10. Generator Nameplate Rating: MW					
11	11. Emissions Unit Comment:					

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>2</u>

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

2. Control Device or Method Code: 016

Emissions Unit Control Equipment/Method: Control <u>2</u> of 2

1. Control Equipment/Method Description: Water Spray/Injection System in Downcomer (Quench System)

2. Control Device or Method Code: 122

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:
EMISSIONS UNIT INFORMATION Section [15] of [36]

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:					
	24 hours/day	7 days/week				
	52 weeks/year	8,760 hours/year				

6. Operating Capacity/Schedule Comment:

The maximum feed rate of 127 TPH represents the maximum dry feed rate to the kiln. The maximum feed rate to the preheater is 138 TPH. The maximum clinker production rate for the Clinker Cooler I is 83 TPH. The maximum processing rate for the In-Line Kiln/Raw Mill is 138 TPH (dry basis).

The maximum shredded and whole tire (TDF) utilization is 8,300 hr/yr.

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on	Plot Plan or	2. Emission Point Type Code:			
Flow Diagram:	~	2			
Kiln 1, Raw Mill, Clinke	er Cooler 1				
3. Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:		
4 ID Numbers or Descriptio	ns of Emission Ur	nite with this Emission	n Point in Common:		
4. ID Ivanioers of Descriptio			ii i onit in Common.		
5 Discharge Type Code:	6 Stack Height	•	7 Exit Diameter		
V	322 feet		18.65 feet		
8. Exit Temperature:	9. Actual Volur	metric Flow Rate:	10. Water Vapor:		
260 °F	530,000 acfm	n	6.0%		
11. Maximum Dry Standard F	Flow Rate:	12. Nonstack Emission Point Height:			
365,150 dscfm		feet			
13. Emission Point UTM Coc Zone: East (km):	ordinates	14. Emission Point Latitude/Longitude			
North (km)).	Longitude (DD/MM/SS)			
15 Emission Point Comment		Longitude (DD/)	(IIII/55)		
	•				

Section [15] of [36]

D. SEGMENT (PROCESS/FUEL) INFORMATION

<u>Segment Description and Rate:</u> Segment <u>1</u> of <u>8</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Raw Material Grinding and Drying – Raw Mill

2.	2. Source Classification Code (SCC):			3. SCC Units:		
3-05-006-13			Tons Proce	esse	d	
4.	Maximum Hourly Rate:	5.	5. Maximum Annual Rate:		6.	Estimated Annual Activity
	138		1,208,880			Factor:
7.	Maximum % Sulfur:	8.	Maximum 9	% Ash:	9.	Million Btu per SCC Unit:
						-

10. Segment Comment:

Annual rate is based on the hourly rate and 8,760 hr/yr. Maximum rates are on a dry basis.

<u>Segment Description and Rate:</u> Segment <u>2</u> of <u>8</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Clinker Cooler

2.	2. Source Classification Code (SCC):		3. SCC Units:			
	3-05-006-14			Tons Proce	esse	1
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity
	83.0		727,080			Factor:
7.	Maximum % Sulfur:	8.	Maximum 9	% Ash:	9.	Million Btu per SCC Unit:
10	. Segment Comment:					
An	nual rate based on the ho	urly	rate and 8,	760 hr/yr.		
		·	,	•		

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

Segment Description and Rate: Segment 3 of 8

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Preheater Kiln

2.	2. Source Classification Code (SCC):		3. SCC Units:			
	3-05-006-22			Tons Proce	esse	d
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity
	138.0		1,208,880			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 8,760 hr/yr. Represents process rate for preheater feed.

Segment Description and Rate: Segment 4 of 8

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. SCC Units:				
	3-90-002-01			Tons Burn	ed	
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity
	10.3	90,228			Factor:	
7.	Maximum % Sulfur:	8.	8. Maximum % Ash:		9.	Million Btu per SCC Unit:
	1.0		10.0			26
10.	Segment Comment:					
An	nual rate is based on the l	nou	rly rate and	8,760 hr/yr.		

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

<u>Segment Description and Rate:</u> Segment <u>5</u> of <u>8</u>

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	e (S	CC):	3. SCC Units:		
	3-90-005-02			1,000 Gallo	ons i	Burned
4.	Maximum Hourly Rate:	5.	5. Maximum Annual Rate:		6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur: 1.5	8.	Maximum ^o N/A	% Ash:	9.	Million Btu per SCC Unit: 140
10	10. Segment Comment:					

No. 2 fuel oil is used for startup/preheating of the Cement Kiln. Hourly/annual usage rate not limited by permit.

Segment Description and Rate: Segment **6** of **8**

1. Segment Description (Process/Fuel Type):

Industrial Processes; In-Process Fuel Use; Residual Oil; Cement Kiln/Dryer

2.	2. Source Classification Code (SCC):		3. SCC Units:			
	3-90-004-02			1,000 Gallo	ons l	Burned
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity
						Factor:
7.	Maximum % Sulfur:	8.	Maximum 9	% Ash:	9.	Million Btu per SCC Unit:
	1.5		N/A			150
10	Segment Comment:					

10. Segment Comment:

Residual oil is used for startup/preheating of the Cement Kiln. Hourly/annual fuel usage rate not limited by permit.

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

Segment Description and Rate: Segment 7 of 8

1. Segment Description (Process/Fuel Type):

Industrial Processes; In-Process Fuel Use; Liquid Waste – Used Oil

2.	2. Source Classification Code (SCC):			3. SCC Units:		
	3-90-013-99			1,000 Gallo	ons l	Burned
4.	Maximum Hourly Rate:	5. Maxim	um A	nnual Rate:	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8. Maxim	um %	Ash:	9.	Million Btu per SCC Unit:
	1.5	N/A				145

10. Segment Comment:

Used oil is fired in blend with purchased oil for startup only. The maximum onspecification used oil in the final storage tank blend of on-specification used oil and purchased oil shall not exceed 15%, by volume. The maximum sulfur content of the blend is 1.5%. Hourly/annual fuel usage rates not limited by permit.

Segment Description and Rate: Segment **8** of **8**

1. Segment Description (Process/Fuel Type):

Industrial Processes; In-Process Fuel Use; Solid Waste – Shredded and Whole Tires (TDF)

2.	Source Classification Code	3. SCC Units:			
	3-90-012-99	Tons Burn	ed		
4.	Maximum Hourly Rate:	5. Maximum	5. Maximum Annual Rate:		Estimated Annual Activity
	1.33	11,039			Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:

10. Segment Comment:

The Cement Kiln's maximum utilization/firing rate of TDF shall not exceed 15.0% of the Btu heat input, or 1.33 TPH. The maximum rate is based on the hourly rate and 8,300 hr/yr.

EMISSIONS UNIT INFORMATION Section [15] of [36]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
SO ₂			EL
NO _x			EL
D/F	122		EL
PM ₁₀			NS
СО			NS
VOC			NS

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:49.5 lb/hour210	6 tons/year4. Synthetically Limited?YesYesXNo			
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: 0.40 lb/ton of kiln feed Reference: Permit No. 0530021-011-AV	7. Emissions Method Code: 0			
8. Calculation of Emissions:				
9. Pollutant Potential/Estimated Fugitive Emissions Comment: Potential emissions represent the combined total emissions from the Kiln 1 or In-Line Kiln/Raw Mill and Clinker Cooler 1. Potential emissions from the Clinker Cooler I are 0.10 lb/ton of feed, 12.4 lb/hr, and 54 TPY; and from the Kiln I or In-Line Kiln/Raw Mill are 0.30 lb/ton of feed, 37.1 lb/hr, and 162 TPY.				

EMISSIONS UNIT INFORMATION Section [15] of [36] EU 020 – Kiln No. 1

POLLUTANT DETAIL INFORMATION Page [1] of [4] 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.

<u>Allowable Emissions</u> Allowable Emissions <u>1</u> of <u>5</u>

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:		
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		
0.40 lb/ton of kiln feed	49.5 lb/hour 216 tons/year		
5. Method of Compliance:			
EPA Method 5			
6. Allowable Emissions Comment (Descript	ion of Operating Method):		
Based on Permit No. 0530021-011-AV and	BACT. Represents the combined emissions		
from the Kiln I or In-Line Kiln/Raw Mill a	nd Clinker Cooler I. Applies when only the		
Cement Plant is in operation.			
Allowable Emissions Allowable Emissions	<u>2</u> of <u>5</u>		
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable		
RULE	Emissions:		
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		
0.30 lb/ton of kiln feed	37.1 lb/hour 162 tons/year		
5. Method of Compliance:			
EPA Method 5			
6. Allowable Emissions Comment (Descript)	ion of Operating Method):		
Based on Permit No. 0530021-011-AV and BACT Represents the emissions from the			
Kiln I or In-Line Kiln/Raw Mill. Applies	when only the Cement Plant is in operation.		
Allowable Emissions Allowable Emissions	<u>3</u> of <u>5</u>		

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Emissions:	Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable E	missions:
	0.10 lb/ton of kiln feed		12.4 lb/hour	54 tons/year
5.	5. Method of Compliance:			
	EPA Method 5			
6.	6. Allowable Emissions Comment (Description of Operating Method):			
Based on Permit No. 0530021-011-AV and BACT. Represents the emissions from the				
Cl	Clinker Cooler. Applies when only the Cement Plant is in operation.			

EMISSIONS UNIT INFORMATIONSection [15] of [36]EU 020 – Kiln No. 1

POLLUTANT DETAIL INFORMATION Page [1] of [4] 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.

<u>Allowable Emissions</u> Allowable Emissions <u>4</u> of <u>5</u>

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Emissions:	Allowable
3.	Allowable Emissions and Units: 0.30 lb/ton of kiln feed (dry basis)	4.	Equivalent Allowable Er lb/hour	nissions: tons/year
5.	Method of Compliance: EPA Method 5			
6. Ba Eq	 6. Allowable Emissions Comment (Description of Operating Method): Based on 40 CFR 63.1343(b)(1). Represents the Kiln I or In-Line Kiln/Raw Mill. Equivalent to BACT. 			

Allowable Emissions 5 of 5

1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
	0.10 lb/ton of kiln feed (dry basis)	lb/hour tons/year			
5.	Method of Compliance:				
	EPA Method 5				
6.	6. Allowable Emissions Comment (Description of Operating Method):				
Ba	Based on 40 CFR 63.1345(a)(1). Represents the Clinker Cooler. Equivalent to BACT.				

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.

 Pollutant Emitted: SO₂ 	2. Total Percent Efficiency of Control:		
3.Potential Emissions:50.0 lb/hour219	4. Synthetically Limited?9 tons/yearYesXNo		
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):		
6. Emission Factor: 0.6 lb/ton of kiln feed	7. Emissions Method Code:		
Coloulation of Emissional	0		
9. Pollutant Potential/Estimated Fugitive Emissions Comment: Potential emissions represent emissions from the Cement Kiln I and/or Clinker Cooler I when only the Cement Plant is in operation. The maximum sulfur content of virgin fuel oil and/or the blend of on-specification used oil and purchased fuel oil is 1.5%.			

EMISSIONS UNIT INFORMATION Section [15] of [36] EU 020 – Kiln No. 1

POLLUTANT DETAIL INFORMATION Page [2] of [4] 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.

<u>Allowable Emissions</u> Allowable Emissions <u>1</u> of <u>2</u>

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Emissions:	Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable En	missions:
	0.6 lb/ton of kiln feed		50.0 lb/hour	219 tons/year
5.	Method of Compliance:			
	EPA Method 6			
6.	5. Allowable Emissions Comment (Description of Operating Method):			
	Based on Permit No. 0530021-011-AV and BACT.			

Allowable Emissions Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Emissions:	f Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable I	Emissions:
	1.5% Sulfur Content		lb/hour	tons/year
5.	Method of Compliance:			

Fuel analysis.

6. Allowable Emissions Comment (Description of Operating Method):

Based on Permit No. 0530021-011-AV. Sulfur content limit applies to virgin fuel oil and/or the blend of on-specification used oil and purchased fuel oil.

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.

 Pollutant Emitted: NO_x 	2. Total Percent Efficie	ency of Control:	
3.Potential Emissions:359.0 lb/hour1,572	$\begin{array}{c c} 2 \text{ tons/year} & 4. & \mathbf{Synth} \\ & \mathbf{\Box} & \mathbf{Y} \end{array}$	etically Limited? es X No	
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):		
6. Emission Factor: 2.9 lb/ton of kiln feedReference: Permit No. 0530021-011-AV		7. Emissions Method Code:0	
8. Calculation of Emissions:			
9. Pollutant Potential/Estimated Fugitive Emissions Comment: Potential emissions represent emissions from the Cement Kiln I and/or Clinker Cooler I when only the Cement Plant is in operation.			

EMISSIONS UNIT INFORMATION Section [15] of [36] EU 020 – Kiln No. 1

POLLUTANT DETAIL INFORMATION Page [3] of [4] 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.

<u>Allowable Emissions</u> Allowable Emissions <u>1</u> of <u>1</u>

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Emissions:	Allowable
3.	Allowable Emissions and Units: 2.9 lb/ton of kiln feed	4.	Equivalent Allowable En 359.0 lb/hour	missions: 1,572 tons/year
5.	Method of Compliance: EPA Method 7 or 7E			
6.	 Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-011-AV and BACT. 			

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):

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.

 Pollutant Emitted: D/F 	2. Total Percent Efficie	ency of Control:
3. Potential Emissions: lb/hour	tons/year 4. Synth	netically Limited? Tes X No
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):	
 6. Emission Factor: 1.7x10-10 gr/dscf @ 7% O₂, PMCD inlet ≤ 40 Reference: Permit No. 0530021-011-AV)0 °F	7. Emissions Method Code:0
8. Calculation of Emissions:		
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:	

POLLUTANT DETAIL INFORMATION Page [4] of [4] Dioxins/Furans – D/F

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 1 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 1.7x10-10 gr/dscf @ 7% O_2 and PMCD inlet $\leq 400 ^{\circ}\text{F}$	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	

Meeting temperature limit as specified in 40 CFR 63.1344(b) and established during performance testing (EPA Method 23).

6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-011-AV and 40 CFR 63.1343(d)(2).

Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions:	
3.	Allowable Emissions and Units: 8.7x10 ⁻¹¹ gr/dscf @ 7% O ₂	4.	Equivalent Allowable Emissions: lb/hour tons/year	
5.	Method of Compliance:			

Meeting temperature limit as specified in 40 CFR 63.1344(b) and established during performance testing (EPA Method 23).

6. Allowable Emissions Comment (Description of Operating Method): **Based on 40 CFR 63.1343(d)(1).**

Section [15] of [36]

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{3}$

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE10	Rule	X Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % E	xceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ved:	min/hour
4.	Method of Compliance: EPA Method 9		
_		" NI 0520021 011 A	
5.	Visible Emissions Comment: Based on Po	ermit No. 0530021-011-A	V and BACT.

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{2}$ of $\underline{3}$

1.	Visible Emissions Subtype:	2. Basis for Allowable	e Opacity:
	VE20	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 20 % E	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ed:	min/hour
4. Method of Compliance: Continuous opacity monitor			
5.	Visible Emissions Comment: Based on 10	CFR 63.1343(b)(2). The	e BACT opacity limit
IS I	more stringent. Applies to the Cement Ki	n and in-Line Kiin/Kaw	/ 1/1111.

Section [15] of [36]

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{3}$ of $\underline{3}$

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE10	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	cceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ed:	min/hour
4.	Method of Compliance: Continuous Opac	city Monitor	
5	Visible Emissions Commont: Based on 40	CED 63 1345(a)(2) A m	nling to Clinkor
5. VISIOLE ETHISSIONS COMMENT. Dased on 40.		CFK 03.1345(a)(2). Ap	plies to Chilker
	ooler.		

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation __ of ____

1	Visible Emissions Subtype:	2 Basis for Allowable (Onacity.
1.	visible Emissions Bubtype.		Opacity.
		Kule	Other
3.	Allowable Opacity:		
	Normal Conditions: % E	xceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ed:	min/hour
4.	Method of Compliance		
5.	Visible Emissions Comment:		

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 1 of 7

1.	Parameter Code: VE	2. Pollutant(s):	
3.	CMS Requirement:	X Rule	
4.	Monitor Information Manufacturer: Lear Siegler		
	Model Number: RM-4200	Serial Number: 15305715	
5.	Installation Date: 1986	6. Performance Specification Test Date: 9/22/2010	
7. Co Pe mo co	7. Continuous Monitor Comment: Continuous Opacity Monitor (COM) measuring opacity from the baghouse. Based on Permit No. 0530021-011-AV and 40 CFR 63.1350(c)(1) and (c)(3). This is the same monitor described in the Power Plant Boiler section since these emissions units share a common stack.		

<u>Continuous Monitoring System:</u> Continuous Monitor <u>2</u> of <u>7</u>

1. Parameter Code:	2. Pollutant(s):	
TEMP		
3. CMS Requirement:	Rule Dther	
4. Monitor Information		
Manufacturer:		
Model Number:	Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:	
7. Continuous Monitor Comment:		
Exhaust temperature from the Kiln and In-Lir	e Kiln/Raw Mill upstream of the	
baghouse. Based on Permit No. 0530021-011-AV and 40 CFR 63.1350(f)(1) through		
(f)(6).		

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Complete 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:	Rule 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 3 of 7

1.	Parameter Code:	2.	Pollutant(s):
	EM		NO _x	
3.	CMS Requirement:		Rule	X Other
4.	Monitor Information Manufacturer: Lear Siegler			
	Model Number: SM-8100		Serial	Number: 16010234
5.	Installation Date:	6.	Performan	nce Specification Test Date:
	1986 (upgraded in 2000)		1986	
7.	7. Continuous Monitor Comment:			
Pe	Permit No. 0530021-011-AV and 40 CFR 60 Annendix B			

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

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

Continuous Monitoring System: Continuous Monitor 4 of 7

1.	Parameter Code: FLOW	2. Pollutant(s):
3.	CMS Requirement:	X Rule Other
4.	Monitor Information Manufacturer: Shaw Model Number: 6100	Serial Number: 0201
5.	Installation Date: 3/3/2010	6. Performance Specification Test Date: 4/28/2010
7. Re	3/3/20104/28/20107. Continuous Monitor Comment: Requirement of GHG reporting rule, 40 CFR 98.	

<u>Continuous Monitoring System:</u> Continuous Monitor <u>5</u> of <u>7</u>

1.	Parameter Code:	2. Pollutant(s):	
		502	
3.	CMS Requirement:	X Rule Other	
4.	Monitor Information		
	Manufacturer: Lear Siegler		
	Model Number: SM-8100	Serial Number: 16010234	
5.	Installation Date:	6. Performance Specification Test Date:	
	1986 (upgraded in 2000)	6/24/2010	
7.	7. Continuous Monitor Comment:		
Me	easures SO ₂ emissions from the Cement Ki	In and Clinker Cooler stack. Based on	
Pe	rmit No. 0530021-011-AV and 40 CFR 60,	Appendix B.	
1			

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

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

Continuous Monitoring System: Continuous Monitor 6 of 7

1.	Parameter Code:	2. Pollutant(s):	
	O_2		
3.	CMS Requirement:	X Rule Other	
4.	Monitor Information Manufacturer: Yokogawa Model Number: ZA8C	Serial Number: JJ113OA336	
5	Installation Date	6 Performance Specification Test Date:	
5.	1986 (upgraded in 2002)	o. Tenomanee Speemeation Test Date.	
7. Mo 05	 7. Continuous Monitor Comment: Measures O₂ from the Cement Kiln and Clinker Cooler stack. Based on Permit No. 0530021-011-AV and 40 CFR 60, Appendix B. 		

<u>Continuous Monitoring System:</u> Continuous Monitor <u>7</u> of <u>7</u>

1.	Parameter Code: CO ₂	2. Pollutant(s):
3.	CMS Requirement:	X Rule
4.	Monitor Information Manufacturer: Sick Maihak Model Number: MCS 100E HW	Serial Number: 10071708
5.	Installation Date: 3/3/2010	 6. Performance Specification Test Date: 4/28/2010
7. Re	Continuous Monitor Comment: equirement of GHG reporting rule, 40 CFF	2 98.

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I. ENIISSIUNS UNII	ADDITIONAL INFORMATION	
litional Requirements for All Applic	ations. Except as Otherwise Stated	

Ac	Iditional 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) Attached, Document ID: <u>2010-FCB-EU20-I1</u> Previously Submitted, Date <u>11/08/10</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) Attached, Document ID: X Previously Submitted, Date <u>11/08/10</u>
3.	 Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: <u>2010-FCB-O&M x</u> Previously Submitted, Date <u>11/08/10</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) Attached, Document ID: <u>2010-FCB-O&M x</u> Previously Submitted, Date <u>11/08/10</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) Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date <u>11/08/10</u>
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested: X Previously Submitted, Date: 03/29/2011 Test Date(s)/Pollutant(s) Tested: VE, PM, NOx, SO2, CO2 and flow (CEM certificate) To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested: Test Date(s)/Pollutant(s) Tested: 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
7.	 compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application. Other Information Required by Rule or Statute: Attached, Document ID: Not Applicable

EMISSIONS UNIT INFORMATION Section [15] of [36]

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)):	
	Attached, Document ID:	☐ Not Applicable
2.	Good Engineering Practice Stack Height An	nalysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):	
	Attached, Document ID:	☐ Not Applicable
3.	Description of Stack Sampling Facilities: (only)	Required for proposed new stack sampling facilities
	Attached, Document ID:	☐ Not Applicable
Ac	lditional Requirements for Title V Air Op	eration Permit Applications
1.	Identification of Applicable Requirement Attached, Document ID: <u>2010-FCB-EU</u>	nts: 1-ITV1 (Submitted 11/08/2010)
2.	Compliance Assurance Monitoring: X Attached, Document ID: <u>See comment</u>	□ Not Applicable
3.	Alternative Methods of Operation: Attached, Document ID:	X Not Applicable

4. Alternative Modes of Operation (Emissions Trading):

Additional Requirements Comment

The Cement Kiln I, In-Line Kiln/Raw Mill, and Clinker Cooler I (EU 020) are subject to 40 CFR 63, Subpart LLL, which is a post-1990 National Emission Standard for Hazardous Air Pollutants (NESHAP), for PM. There are no control devices for SO₂, and NO_x. Therefore, CAM does not apply for PM, SO₂, and NO_x.

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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 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. (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 INFORMATIONSection [16]of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1.	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. 							
	unregulated en	nissions unit.	LIIIIS		non section is an			
En	nissions Unit Desci	ription and Status						
1.	Type of Emissions	Unit Addressed in thi	is Sec	tion: (Check one)				
	X This Emissions process or proc which has at le	s Unit Information Sec duction unit, or activity ast one definable emis	ction a y, wh ssion	addresses, as a sing ich produces one or point (stack or vent	le emissions unit, a single more air pollutants and).			
	This Emissions of process or p point (stack or	s Unit Information Sec roduction units and ac vent) but may also pro	ction a tivitie oduce	addresses, as a sing es which has at leas fugitive emissions	le emissions unit, a group t one definable emission			
	This Emissions more process of	s Unit Information Sec or production units and	ction a l activ	addresses, as a sing vities which produc	le emissions unit, one or e fugitive emissions only.			
2. Ce	Description of Em ement Storage Silo	issions Unit Addresse No. 3 Discharge Syst	d in tl æ m (Z	nis Section: Z-17)				
3.	Emissions Unit Ide	entification Number:	021					
4.	Emissions Unit	5. Commence	6.	Initial Startup	7. Emissions Unit			
Δ	Status Code:	Construction		Date:	Major Group			
Α		Date.			32			
8.	Federal Program A	Applicability: (Check a	all tha	at apply) N/A				
	🗌 Acid Rain Uni	t						
	CAIR Unit							
	— Hg Budget Unit							
	Hg Budget Un	IL						
9.	Package Unit: Manufacturer:			Model Number:				
9. 10.	Package Unit: Manufacturer: . Generator Namepl	ate Rating: MW		Model Number:				
9. 10. 11.	Package Unit: Manufacturer: . Generator Namepl . Emissions Unit Co	ate Rating: MW		Model Number:				
9. 10. 11.	Package Unit: Manufacturer: . Generator Namepl . Emissions Unit Co	ate Rating: MW		Model Number:				
9. 10. 11.	Package Unit: Manufacturer: . Generator Namepl . Emissions Unit Co	ate Rating: MW		Model Number:				

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EU 021 Cement Silo 3 Discharge System

Emissions Unit Control Equipment/Method: Control **1** of **1**

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1. Control Equipment/Method Description: Baghouse – Low Temperature

of

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATIONSection [16]of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 300 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	8760 hours/year
6.	Operating Capacity/Schedule Comment:	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on I Flow Diagram: Z-17	I. Identification of Point on Plot Plan or Flow Diagram: Z-17		2. Emission Point Type Code:1			
3. Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:						
5. Discharge Type Code: H	 Stack Height 50 feet 	:	 Exit Diameter: 1.5 feet 			
8. Exit Temperature: 160 °F	9. Actual Volut 10,000 acfm	netric Flow Rate:	10. Water Vapor: %			
11. Maximum Dry Standard F dscfm	'low Rate:	12. Nonstack Emission Point Height: feet				
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)				
North (km)	:	Longitude (DD/MM/SS)				
15. Emission Point Comment:						

of

Section [16]

EU 021 Cement Silo 3 Discharge System

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>1</u>

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1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Cement Loadout

2.	Source Classification Code (SCC):			3. SCC Units:		
	3-05-006-19			Tons Ceme	ent l	Produced
4.	Maximum Hourly Rate:	5.	5. Maximum Annual Rate:		6.	Estimated Annual Activity
	300	2,628,000				Factor:
7.	Maximum % Sulfur:	8.	Maximum 9	% Ash:	9.	Million Btu per SCC Unit:
10.	10. Segment Comment:					
Maximum annual rate based on the hourly			the hourly I	rate and 8760 h	r/yr	
ĺ			-			

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Pro	. Segment Description (Process/Fuel Type):						
	(2.2.2)						
2. Source Classification Cod	e (SCC):	3. SCC Units:					
4 Marianna Hanala Data	5 Marine	A may al Data:	6	Estimated Annual Astivity			
4. Maximum Houriy Kate:	5. Maximum	Annual Rate:	6.	Factor:			
7. Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:			
10. Segment Comment:	10. Segment Comment:						

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EU 021 Cement Silo 3 Discharge System

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018		EL

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 Perc	ent Efficie	ency of Control:
3.Potential Emissions: 1.29 lb/hour5.7	7 tons/year	4. Synth X Yes	netically Limited? s 🔲 No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: 0.015 gr/acf			7. Emissions Method Code:
Reference: Permit No. 0530021-011-AV			0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:
tons/year	From:	Г	To:
9.a. Projected Actual Emissions (if required):	9.b. Projected	l Monitori	ng Period:
tons/year	🗌 5 yea	urs 🗌 1	0 years
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Co	omment:		

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units: 0.015 gr/acf	4.	Equivalent Allowable Emissions: 1.29 lb/hour 5.7 tons/year	
5.	Method of Compliance: Annual EPA Method 9			
6. B a	Allowable Emissions Comment (Description sed on Permit No. 0530021-011-AV and BA	of (CT	Operating Method):	

Allowable Emissions _____ of _____

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

Allowable Emissions _____ of _____

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

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EU 021 Cement Silo 3 Discharge System

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable C	Dpacity:
	VE05	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
Ar	nnual Method 9, 30 minutes		
5.	Visible Emissions Comment:		
Ba	sed on Permit No. 0530021-011-AV and R	ule 62-297.310(7)(c), F.A.	C.

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>2</u> of <u>2</u>

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE10	X Rule	Other
3.	Allowable Opacity:	·	
	Normal Conditions: 10 % E	xceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ved:	min/hour
4.	Method of Compliance:		
M	ethod 22; monthly [or less frequently as p	rescribed by 40 CFR 63.	1350(a)(4)]] 1-minute
5.	Visible Emissions Comment:		
Ba	used on Permit 40 CFR 63.1348.		

EMISSIONS UNIT INFORMATION Section [16] of [36]

EU 021 Cement Silo 3 Discharge 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 _____

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

Section	[16]	of	[36]	EU 021 Cement Silo 3 Discharge System
		I. EMI	ISSION	S UNIT ADDITIONAL INFORMATION
Addition	nal Requ	uirement	s 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) Attached, Document ID: 2010-FCB-EU21-II T Previously Submitted, Date 11/08/10
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) Attached, Document ID: 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) Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date <u>11/08/10</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) Attached, Document ID: <u>2010-FCB-O&M x</u> Previously Submitted, Date <u>11/08/10</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) Attached, Document ID: <u>2010-FCB-O&M</u> reviously Submitted, Date <u>11/08/10</u>
6.	Compliance Demonstration Reports/Records:
	Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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: X Not Applicable
Section [16] of [36] EU 021 Cement Silo 3 Discharge System

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1.	Control Technology Review and Analysis ($E \wedge C : 40 \text{ CEP } 63 43(d) \text{ and } (a))$:	(Rules 62-212.400(10) and 62-212.500(7),
	Attached, Document ID:	Not Applicable
2.	Good Engineering Practice Stack Height A	nalysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):	
	Attached, Document ID:	Not Applicable
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities
	only)	
	Attached, Document ID:	☐ Not Applicable
Ad	lditional Requirements for Title V Air Op	peration Permit Applications
1.	Identification of Applicable Requireme	nts:
	Attached, Document ID: <u>2010-FCB-EU</u>	1-ITV1 (submitted 11/08/2010)
2.	Compliance Assurance Monitoring:	
	X Attached, Document ID: see comment	☐ Not Applicable
3.	Alternative Methods of Operation:	
	Attached, Document ID:	X Not Applicable

4. Alternative Modes of Operation (Emissions Trading):
Attached, Document ID: X Not Applicable

Additional Requirements Comment

The Cement Storage Silo No. 3 Discharge System (EU 021) is subject to 40 CFR 63, Subpart LLL, which is a post-1990 National Emission Standard for Hazardous Air Pollutants (NESHAP), for PM. Therefore, CAM does not apply for this source.

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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. (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 [17] of [36]

EU 022 Cement Storage Silo No. 3

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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.)							
X The emissions emissions unit	X The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.						
The emissions unregulated er	unit addressed in this nissions unit.	Emiss	ions Unit Informati	ion Section is an			
Emissions Unit Desc	ription and Status						
1. Type of Emission	s Unit Addressed in th	is Sect	ion: (Check one)				
X This Emission	s Unit Information Sec	ction a	ddresses, as a singl	e emissions unit, a single			
process or pro	duction unit, or activit	y, which	ch produces one or	more air pollutants and			
This Emission	s Unit Information Sec	ction a	ddresses as a singl	e emissions unit a group			
of process or point (stack or	production units and ac vent) but may also pro-	ctivitie oduce	s which has at least fugitive emissions.	t one definable emission			
This Emission more process	s Unit Information Second production units and	ction a l activ	ddresses, as a singl ities which produce	e emissions unit, one or e fugitive emissions only.			
2. Description of Em	issions Unit Addresse	d in th	is Section:				
Cement Storage Silo	No. 3 (Z-15)						
		0.00					
3. Emissions Unit Id	entification Number:	022	T 10 10				
4. Emissions Unit	5. Commence Construction	6.	Initial Startup	7. Emissions Unit Major Group			
A Status Code.	Date:		Date.	SIC Code:			
				32			
8. Federal Program A	Applicability: (Check	all tha	t apply) N/A				
🗌 Acid Rain Uni	t						
CAIR Unit							
Hg Budget Un	it						
9. Package Unit: Manufacturer:	9. Package Unit: Manufacturer: Model Number:						
10. Generator Namep	late Rating: MW						
11. Emissions Unit Co	omment:						

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EU 022 Cement Storage Silo No. 3

Emissions Unit Control Equipment/Method: Control **1** of **1**

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1. Control Equipment/Method Description: Baghouse – Low Temperature

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [17] of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 125 TPH; 1,095,000 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	8760 hours/year
6.	Operating Capacity/Schedule Comment:	

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: Z-15		2. Emission Point Type Code:1			
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: H	 Stack Height 200 feet 		 Exit Diameter: 2.0 feet 		
8. Exit Temperature: 180 °F	 9. Actual Volur 5,300 acfm 	netric Flow Rate:	10. Water Vapor: %		
11. Maximum Dry Standard F 8,820 dscfm	low Rate:	12. Nonstack Emission Point Height: feet			
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)			
North (km)	:	Longitude (DD/MM/SS)			
15. Emission Point Comment:					

of

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>1</u>

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1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Cement Silos

2.	Source Classification Code (SCC):		3. SCC Units:				
	3-05-006-18			Tons Cement Produced			
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		6.	Estimated Annual Activity		
	125	1,095,000			Factor:		
7.	Maximum % Sulfur:	8. Maximum % Ash:		9.	Million Btu per SCC Unit:		
10	. Segment Comment:						
Ma	Maximum rates based on Permit No. 0530021-011-AV.						

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:					

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EU 022 Cement Storage Silo No. 3

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018		EL

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 Perc	ent Efficie	ency of Control:	
3. Potential Emissions: 0.68 lb/hour 3.0) tons/year	4. Synth	etically Limited? es X No	
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 0.015 gr/acf			7. Emissions Method Code:	
Reference: Permit No. 0530021-011-AV			0	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:	
tons/year	From:	Г	`o:	
9.a. Projected Actual Emissions (if required):	9.b. Projected	l Monitori	ng Period:	
tons/year	🗌 5 yea	urs 🗌 1	0 years	
10. Calculation of Emissions:				
11 Potential Eugitive and Actual Emissions C	omment:			
11. Potential, Fugitive, and Actual Emissions Comment:				

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units: 0.015 gr/acf	4.	Equivalent Allowable Emissions: 0.68 lb/hour 3.0 tons/year			
5.	5. Method of Compliance: Annual EPA Method 9					
 6. Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-011-AV and BACT. 						

Allowable Emissions _____ of _____

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

Allowable Emissions _____ of _____

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

of

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[36] EU 022

EU 022 Cement Storage Silo No. 3

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:
VE05	X Rule Dther
3. Allowable Opacity:	
Normal Conditions: 5 %	Exceptional Conditions: %
Maximum Period of Excess Opacity A	Allowed: min/hour
4. Method of Compliance:	
Annual Method 9, 30 minutes	
5. Visible Emissions Comment:	
Based on Permit No. 0530021-011-AV a	and Rule 62-297.310(7)(c), F.A.C.

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>2</u> of <u>2</u>

1.	Visible Emissions Subtype:	2. Basis for Allowabl	e Opacity:
	VE10	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 %	Exceptional Conditions:	%
	Maximum Period of Excess Opacity Al	lowed:	min/hour
4.	Method of Compliance:		
Μ	ethod 22; monthly [or less frequently a	as prescribed by 40 CFR 63	8.1350(a)(4)]] 1-minute
5.	Visible Emissions Comment:		
Ba	ased on Permit 40 CFR 63.1348.		

EMISSIONS UNIT INFORMATION Section [17] of [36]

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:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

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		I. EMI	SSIONS	S UNIT ADDITIONAL INFORMATION
Addition	nal Requ	uirements	6 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) Attached, Document ID: 2010-FCB-EU22-I1 × Previously Submitted, Date 11/08/10
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) Attached, Document ID: 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) Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date <u>11/08/10</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) Attached, Document ID: 2010-FCB-O&M x Previously Submitted, Date 11/08/10
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) Attached, Document ID: <u>2010-FCB-O&M</u> reviously Submitted, Date <u>11/08/10</u>
6.	Compliance Demonstration Reports/Records:
	Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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: X Not Applicable

of

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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),
	Attached, Document ID:	☐ Not Applicable
2.	Good Engineering Practice Stack Height A 212.500(4)(f), F.A.C.):	nalysis (Rules 62-212.400(4)(d) and 62-
	Attached, Document ID:	☐ Not Applicable
3.	Description of Stack Sampling Facilities: (only)	Required for proposed new stack sampling facilities
	Attached, Document ID:	☐ Not Applicable
Ad	lditional Requirements for Title V Air Op	eration Permit Applications
1.	Identification of Applicable Requireme Attached, Document ID: <u>2010-FCB-EU</u>	nts: [1-ITV1 (submitted 11/08/2010)
2.	Compliance Assurance Monitoring: X Attached, Document ID: <u>see comment</u>	□ Not Applicable
3.	Alternative Methods of Operation:	X Not Applicable

4. Alternative Modes of Operation (Emissions Trading): **X** Not Applicable Attached, Document ID:

Additional Requirements Comment

The Cement Storage Silo No. 3 (EU 022) is subject to 40 CFR 63, Subpart LLL, which is a post-1990 National Emission Standard for Hazardous Air Pollutants (NESHAP), for PM. Therefore, CAM does not apply for this source.

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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 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. (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 INFORMATIONSection [18]of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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 em	issions unit.							
Er	nissions Unit Descr	<u>iption and Status</u>							
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)						
	X This Emissions process or proc which has at le	S Unit Information Secti luction unit, or activity, ast one definable emissi	on addresses, as a single which produces one or point (stack or vent).	e emissions unit, a single more air pollutants and					
	This Emissions of process or p point (stack or	S Unit Information Section roduction units and active vent) but may also prod	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission					
	This Emissions more process o	Unit Information Secti r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.					
2.	Description of Em	issions Unit Addressed	in this Section:						
Ce	ement Storage Silo	No. 4 and Truck Load	out System						
3.	Emissions Unit Ide	entification Number: 02	3						
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit					
	Status Code:	Construction	Date:	Major Group					
Α		Date:		SIC Code:					
8	Federal Program A	pplicability: (Check all	that apply) N/A	52					
0.	Acid Rain Unit								
	CAIR Unit								
9.	Package Unit:								
	Manufacturer:		Model Number:						
10	. Generator Namepla	ate Rating: MW							
11	. Emissions Unit Co	omment:							

of

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EU 023 Cement Silo 4 & Truck Loadout

Emissions Unit Control Equipment/Method: Control **1** of **1**

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- 1. Control Equipment/Method Description: Baghouse – Low Temperature
- 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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATIONSection [18]of [36]

EU 023 Cement Silo 4 & Truck Loadout

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 47 TPH silo; 390 TPH trucks					
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	8760 hours/year				
6.	Operating Capacity/Schedule Comment:					

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type							
1. Identification of Point on I	Plot Plan or	2. Emission Point 7	Гуре Code:				
Flow Diagram:		1					
Cement Silo 4 & Truck Load	dout						
3. Descriptions of Emission l	Points Comprising	g this Emissions Unit	for VE Tracking:				
			D. L. L. G				
4. ID Numbers or Description	ns of Emission Un	its with this Emission	1 Point in Common:				
5. Discharge Type Code:	6. Stack Height	:	7. Exit Diameter:				
	/5 feet		0.8 reet				
8. Exit Temperature:	9. Actual Volur	netric Flow Rate:	10. Water Vapor:				
		10 N / 1 F · ·					
829 dscfm	low Rate:	feet					
13. Emission Point UTM Coo	rdinates	14. Emission Point Latitude/Longitude					
Zone: East (km):		Latitude (DD/MM/SS)					
North (km)	:	Longitude (DD/N	MM/SS)				
15. Emission Point Comment:							

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EU 023 Cement Silo 4 & Truck Loadout

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>2</u>

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1. Segment Description (Process/Fuel Type):

of

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Cement Silos

2.	Source Classification Code (SCC):			3. SCC Units:		
	3-05-006-18			Tons Cement Produced		
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity
	47		411,720			Factor:
7.	Maximum % Sulfur:	8.	Maximum	% Ash:	9.	Million Btu per SCC Unit:

10. Segment Comment:

Maximum annual rate based on the hourly rate and 8760 hr/yr. Maximum rates apply to the silo.

<u>Segment Description and Rate:</u> Segment <u>2</u> of <u>2</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Cement Loadout

2.	Source Classification Code (SCC): 3-05-006-19			3. SCC Units: Tons Cement Produced		
4.	Maximum Hourly Rate: 390	5.	Maximum <i>A</i> 3,074,760	Annual Rate:	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8.	Maximum	% Ash:	9.	Million Btu per SCC Unit:

10. Segment Comment:

Maximum annual rate based on the hourly rate and 7,884 hr/yr. Maximum rates apply to the trucks.

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EU 023 Cement Silo 4 & Truck Loadout

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018		EL

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: 0.11 lb/hour0.48	8 tons/year	4. Synth	netically Limited? es X No			
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):					
6. Emission Factor: 0.015 gr/acf			7. Emissions Method Code:			
Reference: Permit No. 0530021-011-AV			0			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:			
tons/year	From:	Г	To:			
9.a. Projected Actual Emissions (if required):	9.b. Projected	l Monitori	ng Period:			
tons/year	🗌 5 yea	ars 🗌 1	0 years			
10. Calculation of Emissions:						
11 Potential Eugitive and Actual Emissions C	omment					
11. Potential, Fugitive, and Actual Emissions Comment:						

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:				
3. Allowable Emissions and Units: 0.015 gr/acf4. Equivalent Allowable I 0.11 lb/hour			Equivalent Allowable Emissions: 0.11 lb/hour 0.48 tons/year			
5.	5. Method of Compliance: Annual EPA Method 9					
6. B a	 Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-011-AV and BACT. 					

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.	5. Method of Compliance:						
6.	6. Allowable Emissions Comment (Description of Operating Method):						

Allowable Emissions _____ of _____

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

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EU 023 Cement Silo 4 & Truck Loadout

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable C	Dpacity:			
	VE05	X Rule	Other			
3.	Allowable Opacity:					
	Normal Conditions: 5 % Ex	ceptional Conditions:	%			
	Maximum Period of Excess Opacity Allowe	ed:	min/hour			
4.	Method of Compliance:					
Ar	nnual Method 9, 30 minutes					
5.	Visible Emissions Comment:					
Ba	Based on Permit No. 0530021-011-AV and Rule 62-297.310(7)(c), F.A.C.					

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>2</u> of <u>2</u>

1.	Visible Emissions Subtype:	2. Basis for Allowabl	e Opacity:
	VE10	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 %	Exceptional Conditions:	%
	Maximum Period of Excess Opacity Al	lowed:	min/hour
4.	Method of Compliance:		
Μ	ethod 22; monthly [or less frequently a	as prescribed by 40 CFR 63	8.1350(a)(4)]] 1-minute
5.	Visible Emissions Comment:		
Ba	ased on Permit 40 CFR 63.1348.		

EMISSIONS UNIT INFORMATION Section [18] of [36]

EU 023 Cement Silo 4 & Truck Loadout

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:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

Section	[18]	of	[36]	EU 023 Cement Silo 4 & Truck Loadout		
		I. EMI	SSION	S 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) Attached, Document ID: 2010-FCB-EU23-II x Previously Submitted, Date 11/08/10
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) Attached, Document ID: 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) Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date <u>11/08/10</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) Attached, Document ID: <u>2010-FCB-O&M</u> x Previously Submitted, Date <u>11/08/10</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) Attached, Document ID: <u>2010-FCB-O&M</u> reviously Submitted, Date <u>11/08/10</u>
6.	Compliance Demonstration Reports/Records:
	Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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: X Not Applicable

of

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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)):						
Attached, Document ID: Not Applicable						
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-						
212.500(4)(f), F.A.C.):						
Attached, Document ID: Not Applicable						
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities						
only)						
Attached, Document ID: Not Applicable						
Additional Requirements for Title V Air Operation Permit Applications						
1. Identification of Applicable Requirements:						
Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)						
2. Compliance Assurance Monitoring:						
X Attached, Document ID: <u>see comment</u> Not Applicable						
3. Alternative Methods of Operation:						
3. Alternative Methods of Operation:						

X Not Applicable Attached, Document ID:

Additional Requirements Comment

The Cement Storage Silo No. 4 & Truck Loadout System (EU 023) is subject to 40 CFR 63, Subpart LLL, which is a post-1990 National Emission Standard for Hazardous Air Pollutants (NESHAP), for PM. Therefore, CAM does not apply for this source.

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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 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. (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 [19]

of

EU 024 Cement Storage Silo & Railcar Loadout

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

[36]

1.	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.)					
	X The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.					
	The emissions unregulated em	unit addressed in this En issions unit.	missions Unit Information	on Section is an		
Er	nissions Unit Descr	ription and Status				
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)			
	\mathbf{X} This Emissions	Unit Information Section	on addresses, as a single	e emissions unit, a single		
	process or proc which has at le	luction unit, or activity, ast one definable emissi	which produces one or a on point (stack or vent).	more air pollutants and		
	This Emissions	Unit Information Section	on addresses, as a single	e emissions unit, a group		
	of process or pr	roduction units and activ	vities which has at least	one definable emission		
	point (stack or	vent) but may also prod	uce fugitive emissions.			
	This Emissions more process o	S Unit Information Section r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.		
2.	Description of Emi	issions Unit Addressed i	in this Section:			
Ce	ement Storage Silo	and Railcar Loadout S	System (Z-18)			
3.	Emissions Unit Ide	entification Number: 02	4			
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit		
	Status Code:	Construction	Date:	Major Group		
Α		Date:		SIC Code:		
8	Federal Program A	nnlicability: (Check all	that apply) N/A	52		
0.	Acid Rain Unit		that apply) 14/A			
		L .				
9	Package Unit:					
7.	Manufacturer:		Model Number:			
10	. Generator Namepla	ate Rating: MW				
11	. Emissions Unit Co	omment:				
Tł	nis unit is not in use	e now.				

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EU 024 Cement Storage Silo & Railcar Loadout

Emissions Unit Control Equipment/Method: Control **1** of **1**

[36]

1. Control Equipment/Method Description: Baghouse – Low Temperature

of

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [19]

of

EU 024 Cement Storage Silo & Railcar Loadout

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

[36]

1.	Maximum Process or Throughput Rate: 30 TPH silo; 100 TPH rai	lcars
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:	
1		

EMISSIONS UNIT INFORMATION Section [19] of [36]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on	Plot Plan or	2. Emission Point	Type Code:			
Flow Diagram: Z-18		1	~ 1			
3. Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:			
4. ID Numbers or Description	ons of Emission U	nits with this Emission	n Point in Common:			
5 Discharge Type Code:	6 Stock Unight	· ·	7 Exit Diamotor:			
H	0. Stack Height 80 feet		15 feet			
8 Exit Tomporatura:	0 Actual Value	matria Flow Pata	10 Water Vapor:			
77 °F	9. Actual Volul 6.000 acfm	metric Flow Kate.				
11 Maximum Dry Standard F	Flow Rate:	12 Nonstack Emiss	ion Point Height			
5.899 dscfm	Tow Rate.	feet				
13 Emission Point LITM Coc	ordinates	14 Emission Point Latitude/Longitude				
Zone: Fast (km):		Latitude (DD/MM/SS)				
North (km):		Longitude (DD/MM/SS)				
15 Emission Point Comment	•					
15. Emission Font Comment.						

The stack parameters represent 1 of 2 stacks. The parameters for the 2nd stack are: Height = 10 feet; Diameter = 0.5 feet; Exit temperature = 77 °F; Actual flow rate = 500 acfm; Dry standard flow rate = 490 dscfm

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EU 024 Cement Storage Silo & Railcar Loadout

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

[36]

1. Segment Description (Process/Fuel Type):

of

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Cement Silos

2.	Source Classification Code (SCC): 3-05-006-18			3. SCC Units: Tons Cement Produced				
4.	Maximum Hourly Rate: 30	5.	Maximum <i>2</i> 262,800	Annual Rate:	6.	Estimated Annual Activity Factor:		
7.	Maximum % Sulfur:	8.	Maximum	% Ash:	9.	Million Btu per SCC Unit:		
10	10 Segment Comment:							

Annual rate based on the hourly rate and 8,760 hr/yr. Maximum rates are for the silo.

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Cement Loadout

2.	 Source Classification Code (SCC): 3-05-006-19 			3. SCC Units: Tons Cement Produced			
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity	
	100		876,000			Factor:	
7.	Maximum % Sulfur:	8.	Maximum 9	% Ash:	9.	Million Btu per SCC Unit:	
10	10. Segment Comment:						
Ar	nual rate based on the ho	urly	rate and 8,	760 hr/yr. Maxi	mu	m rates are for the	
ra	ilcars.						

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EU 024 Cement Storage Silo & Railcar Loadout

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018		EL

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: lb/hour	tons/year	4. Synth	netically Limited? es X No		
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):				
6. Emission Factor: 0.02 gr/acf			7. Emissions Method Code:		
Reference: Permit No. 0530021-011-AV			0		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:		
tons/year	From:	Г	Го:		
9.a. Projected Actual Emissions (if required):	9.b. Projected	l Monitori	ng Period:		
tons/year	5 yea	urs 🗌 1	0 years		
10. Calculation of Emissions:					
11. Potential, Fugitive, and Actual Emissions Comment:					

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	2. Future Effective Date of Allowable		
	RULE		Emissions:		
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
	0.02 gr/acf		lb/hour	tons/year	
5.	Method of Compliance:				
	Annual EPA Method 9				
6.	Allowable Emissions Comment (Description	of (Operating Method):		
	Based on Permit No. 0530021-011-AV and BACT.				

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date Emissions:	of Allowable
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 _____ of _____

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Emissions:	of Allowable
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):	
Section [19] of [36]

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:	2. Basis for Allowable	Opacity:
	VE05	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
Ar	nual Method 9, 30 minutes		
5.	Visible Emissions Comment:		
Ba	sed on Permit No. 0530021-011-AV and R	ule 62-297.310(7)(c), F.A	.C.

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>2</u> of <u>2</u>

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE10	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % E	xceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ved:	min/hour
4.	Method of Compliance:		
M	ethod 22; monthly [or less frequently as p	rescribed by 40 CFR 63.	1350(a)(4)]] 1 minute
5.	Visible Emissions Comment:		
Ba	sed on Permit 40 CFR 63.1348.		

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H. CONTINUOUS MONITOR INFORMATION

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

<u>Continuous Monitoring System:</u> Continuous Monitor ____ of ____

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

Section	[19] of [36]		[36]	EU 024 Cement Storage Silo & Railcar Loadout		
		I. EMI	ISSION	S UNIT ADDITIONAL INFORMATION		
Addition	nal Rem	uirement	s for All	Applications, Except as Otherwise Stated		

1. <u>11</u>	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) x Attached, Document ID: 2010-FCB-EU24-I1 /08/10
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) Attached, Document ID: 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) X Attached, Document ID: <u>2010-FCB-O&M</u> Previously Submitted, Date <u>11/08/10</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) x Attached, Document ID: 2010-FCB-O&M Previously Submitted, Date 11/08/10
	□ 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) X Attached, Document ID: <u>2010-FCB-O&M</u> Previously Submitted, Date <u>11/08/10</u>
	Not Applicable
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date: 03/15/2011
	Test Date(s)/Pollutant(s) Tested: <u>VE (This unit is not in use now.)</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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:	X Not Applicable

of

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Section [19]

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)):
Attached, Document ID: Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-
212.500(4)(f), F.A.C.):
Attached, Document ID: Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities
only)
Attached, Document ID: Not Applicable
Additional Requirements for Title V Air Operation Permit Applications
1. Identification of Applicable Requirements:
 Identification of Applicable Requirements: Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)
 Identification of Applicable Requirements: Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010) Compliance Assurance Monitoring:
 Identification of Applicable Requirements: Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010) Compliance Assurance Monitoring: X Attached, Document ID: refer comment Not Applicable
 Identification of Applicable Requirements: Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010) Compliance Assurance Monitoring: X Attached, Document ID: refer comment Not Applicable Alternative Methods of Operation:
 Identification of Applicable Requirements: Attached, Document ID:<u>2010-FCB-EU1-ITV1 (submitted 11/08/2010)</u> Compliance Assurance Monitoring: X Attached, Document ID: <u>refer comment</u> Not Applicable Alternative Methods of Operation: Attached, Document ID: <u>X</u> Not Applicable

Additional Requirements Comment

Attached, Document ID:

The Cement Storage Silo and Railcar Loadout System (EU 024) is subject to 40 CFR 63, Subpart LLL, which is a post-1990 National Emission Standard for Hazardous Air Pollutants (NESHAP), for PM. Therefore, CAM does not apply for this source.

X Not Applicable

EMISSIONS UNIT INFORMATIONSection [20]of [36]EU 042 Coal Receiving, Handling and Transfer

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 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. (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 [20] [36]

of

EU 042 Coal Receiving, Handling and Transfer

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unre or renewal Title V	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	1. Type of Emissions Unit Addressed in this Section: (Check one)							
This Emission process or proc which has at le	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 Emission of process or p point (stack or	s Unit Information Section roduction units and active vent) but may also produce	on addresses, as a single rities which has at least o ace fugitive emissions.	emissions unit, a group one definable emission					
X This Emission more process of	s Unit Information Section or production units and ad	on addresses, as a single ctivities which produce f	emissions unit, one or ugitive emissions only.					
2. Description of Em Coal Receiving, Hand	issions Unit Addressed i dling and Transfer Act	n this Section: ivities (Fugitives)						
3. Emissions Unit Ide	entification Number: 042	2						
4. Emissions Unit Status Code:A	5. Commence Construction Date:	6. Initial Startup Date:	 Emissions Unit Major Group SIC Code: 32 					
8. Federal Program A	applicability: (Check all	that apply) N/A						
🗌 Acid Rain Uni	t							
CAIR Unit								
9. Package Unit:								
Manufacturer:	the Detinent MW	Model Number:						
10. Generator Namepi	ate Rating: MW	•4 •						
transferring/conveyi	ng coal to Kiln Nos. 1 &	2. The coal is received	d in unit trains and is					
bottom-dumped from	n moving rail cars throu	igh an open elevated tr	restle to a coal					
receiving area. From	this area, the coal is m	oved to a storage area	by a bulldozer with					
the storage pile being recovered from the c	g shaped and compacted all storage pile by a rul	d during the transfer. The tired front-end lose	The coal will be ader and transferred					
to a receiving hopper	. From the receiving h	opper, the coal will be	transferred by covered					
conveyor belt to a sci	reening system and ther	n to one of the coal bins	that will supply the					
two cement plants.	two cement plants.							

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Emissions Unit Control Equipment/Method: Control **1** of **3**

[36]

1. Control Equipment/Method Description: Process Enclosed

of

2. Control Device or Method Code: 054

Emissions Unit Control Equipment/Method: Control **2** of **3**

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

2. Control Device or Method Code: 061

Emissions Unit Control Equipment/Method: Control **3** of **3**

Control Equipment/Method Description:
 Dust Suppression by Chemical Stabilizers or Wetting Agents

2. Control Device or Method Code: 062

Emissions Unit Control Equipment/Method: Control _____ of ____

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

EMISSIONS UNIT INFORMATION Section [20] [36]

of

EU 042 Coal Receiving, Handling and Transfer

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 300,000 TPY coal	
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:	
6.	The coal storage area has a maximum capacity of appro	ximately 55,000 tons.
6.	The coal storage area has a maximum capacity of appro	ximately 55,000 tons.
6.	The coal storage area has a maximum capacity of appro	ximately 55,000 tons.
6.	The coal storage area has a maximum capacity of appro	ximately 55,000 tons.
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6.	The coal storage area has a maximum capacity of appro	ximately 55,000 tons.
6.	The coal storage area has a maximum capacity of appro	ximately 55,000 tons.

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 Conveyor		2. Emission Point Type Code:4				
3. Descriptions of Emission I	Points Comprising	g this Emissions Unit	for VE Tracking:			
4. ID Numbers or Description	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: 77 °F	9. Actual Volum acfm	netric Flow Rate:	10. Water Vapor: %			
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: 10 feet				
13. Emission Point UTM CooZone:East (km):	rdinates	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)				
North (km)	:	Longitude (DD/N	MM/SS)			
15. Emission Point Comment:						

Section [20]

EU 042 Coal Receiving, Handling and Transfer

D. SEGMENT (PROCESS/FUEL) INFORMATION

<u>Segment Description and Rate:</u> Segment <u>1</u> of <u>1</u>

[36]

1. Segment Description (Process/Fuel Type):

of

Industrial Processes; Mineral Products; Coal Mining, Cleaning, and Material Handling; Coal Transfer

2.	Source Classification Code (SCC):			3. SCC Units:		
	3-05-010-11			Tons Coal		
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity
	35.0 (annual average)		300,000			Factor:
7.	Maximum % Sulfur:	8.	Maximum 9	% Ash:	9.	Million Btu per SCC Unit:
10	10. Segment Comment:					
	Hourly rate is based on t	he a	nnual rate a	and 8,760 hr/yr.		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Pro	cess/Fuel Type):			
2. Source Classification Cod	e (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:				

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EU 042 Coal Receiving, Handling and Transfer

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	054	061, 062	EL

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 Ef	ficiency of Control:		
3.Potential Emissions: 2.74 lb/hour1.8	4. S stons/year	ynthetically Limited?		
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: 2.74 lb/hrReference: Permit No. 0530021-011-AV		7. Emissions Method Code:0		
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-mo From:	onth Period: To:		
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Mon	itoring Period:		
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions are for the receiving, storage, traffic, and wind erosion activities. The potential emissions from the Receiving operation are 0.60 lb/hr and 0.02 TPY, from the Receiving and Storage operation are 0.76 lb/hr and 0.43 TPY, from the Storage to Cement Plant System is 1.11 lb/hr and 1.27 TPY, and from the Cement Plant System are 0.27 lb/hr and 0.03 TPY.				

EMISSIONS UNIT INFORMATION Section [20] of [36] Coal Receiving, Handling, and Transfer

POLLUTANT DETAIL INFORMATION Page [1] of [1] 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 1 of 8

1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:		Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Er	nissions:
	2./4 ID/III		2.74 ID/IIOUI	1. // tons/year

5. Method of Compliance:

Annual compliance testing using DEP Method 9 and work practices to prevent fugitive PM emissions.

6. Allowable Emissions Comment (Description of Operating Method):

Based on Permit No. 0530021-011-AV, but adjusted for annual coal usage. Applies to the combined emissions from the receiving, storage, traffic, and wind erosion activities.

Allowable Emissions 2 of 8

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Emissions:	Allowable
3.	Allowable Emissions and Units: 0.60 lb/hr	4.	Equivalent Allowable Er 0.60 lb/hour	nissions: 0.016 tons/year

5. Method of Compliance:

Annual compliance testing using DEP Method 9 and work practices to prevent fugitive PM emissions.

6. Allowable Emissions Comment (Description of Operating Method):

Based on Permit No. 0530021-011-AV, but adjusted for annual coal usage. Applies to the Receiving operation.

Allowable Emissions Allowable Emissions 3 of 8

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Emissions:	Allowable
3.	Allowable Emissions and Units: 0.01 lb/hr	4.	Equivalent Allowable Er 0.01 lb/hour	nissions: 0.002 tons/year

5. Method of Compliance:

Annual compliance testing using DEP Method 9 and work practices to prevent fugitive PM emissions.

6. Allowable Emissions Comment (Description of Operating Method):

Based on Permit No. 0530021-011-AV, but adjusted for annual coal usage. Applies to the transfer portion of the Receiving and Storage operation.

EMISSIONS UNIT INFORMATION Section [20] of [36] Coal Receiving, Handling, and Transfer

POLLUTANT DETAIL INFORMATION Page [1] of [1] 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 4 of 8

1.	Basis for Allowable Emissions Code: OTHER	2.	2. Future Effective Date of Allowable Emissions:	
3.	Allowable Emissions and Units: 0.75 lb/hr	4.	Equivalent Allowable Emissions: 0.75 lb/hour 0.43 tons/ye	

5. Method of Compliance:

Annual compliance testing using DEP Method 9 and work practices to prevent fugitive PM emissions.

6. Allowable Emissions Comment (Description of Operating Method):

Based on Permit No. 0530021-011-AV, but adjusted for annual coal usage. Applies to the traffic portion of the Receiving and Storage operations.

Allowable Emissions 5 of 8

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Emissions:	Allowable
3.	Allowable Emissions and Units: 0.01 lb/hr	4.	Equivalent Allowable Er 0.01 lb/hour	nissions: 0.006 tons/year

5. Method of Compliance:

Annual compliance testing using DEP Method 9 and work practices to prevent fugitive PM emissions.

6. Allowable Emissions Comment (Description of Operating Method):

Based on Permit No. 0530021-011-AV, but adjusted for annual coal usage. Applies to the transfer portion of the Storage to C/P System.

Allowable Emissions Allowable Emissions 6 of 8

1.	Basis for Allowable Emissions Code: OTHER	2.	2. Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units: 1.10 lb/hr	4.	4. Equivalent Allowable Emissions: 1.10 lb/hour 1.27 tons		

5. Method of Compliance:

Annual compliance testing using DEP Method 9 and work practices to prevent fugitive PM emissions.

6. Allowable Emissions Comment (Description of Operating Method):

Based on Permit No. 0530021-007-AV, but adjusted for annual coal usage. Applies to the traffic portion of the Storage to C/P System.

EMISSIONS UNIT INFORMATION Section [20] of [36] Coal Receiving, Handling, and Transfer

POLLUTANT DETAIL INFORMATION Page [1] of [1] 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 7 of 8

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
0.01 lb/hr	0.01 lb/hour 0.009 tons/year

5. Method of Compliance:

Annual compliance testing using DEP Method 9 and work practices to prevent fugitive PM emissions.

6. Allowable Emissions Comment (Description of Operating Method):

Based on Permit No. 0530021-011-AV, but adjusted for annual coal usage. Applies to the transfer portion of the C/P system.

Allowable Emissions Allowable Emissions 8 of 8

1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:		Allowable
3.	Allowable Emissions and Units: 0.26 lb/hr	4.	Equivalent Allowable E 0.26 lb/hour	missions: 0.030 tons/year

5. Method of Compliance:

Annual compliance testing using DEP Method 9 and work practices to prevent fugitive PM emissions.

6. Allowable Emissions Comment (Description of Operating Method):

Based on Permit No. 0530021-007-AV, but adjusted for annual coal usage. Applies to the wind erosion from storage portion of the C/P System.

Allowable Emissions _ of _

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

Section [20] of [36]

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>1</u>

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE10	Rule	X Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Annual Method 9; 30 minutes		
5.	Visible Emissions Comment:		

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1.	Visible Emissions Subtype:		2. Basis for Allowab	le Opacity:
			Rule	Other
3.	Allowable Opacity:			
	Normal Conditions:	% E	Exceptional Conditions:	%
	Maximum Period of Excess Opa	acity Allov	ved:	min/hour
4.	Method of Compliance:			
5	Visible Emissions Comment:			
5.	visible Emissions comment.			

of

Section [20]

EU 042 Coal Receiving, Handling and Transfer

H. CONTINUOUS MONITOR INFORMATION

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

<u>Continuous Monitoring System:</u> Continuous Monitor ____ of ____

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

Section	[20]	of	[36]	EU 042 Coal Receiving, Handling and Transfer
		I. EMI	ISSIONS	S UNIT ADDITIONAL INFORMATION
Addition		inomont	for All	Applications Expont as Othomysics Stated

110	unional Acquirements for An Applications, Except as other wise 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) x Attached, Document ID:2010-FCB-EU42-I1 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) Attached, Document ID: 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) Attached, Document ID: 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) Attached, Document ID: Previously Submitted, Date 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) Attached, Document ID: Previously Submitted, Date x Not Applicable
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	x Previously Submitted, Date: 06/30/2011 Test Date(s)/Pollutant(s) Tested: VE
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	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: X Not Applicable

Section [20] of [36] EU 042 Coal Receiving, Handling and Transfer 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)):					
	Attached, Document ID: Not Applicable					
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-					
	212.500(4)(f), F.A.C.):					
	Attached, Document ID: Not Applicable					
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities					
	only)					
	Attached, Document ID: Not Applicable					
Ad	Additional Requirements for Title V Air Operation Permit Applications					
1.	Identification of Applicable Requirements:					
	x Attached, Document ID: 2010-FCB-EU27-ITV1					
2.	Compliance Assurance Monitoring:					

- X Attached, Document ID: <u>refer comment</u> Not Applicable
- 4. Alternative Modes of Operation (Emissions Trading):

Additional Requirements Comment

The Coal Receiving, Handling, and Transfer Activities (EU 042) does not use control devices as defined by 40 CFR 64. Therefore, CAM does not apply for this source.

Section [21] of [36]

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 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. (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.

Facility Wide Fugitive Emissions

Section [21] of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1.	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.					
	X The emissions unregulated en	unit addressed in this H nissions unit.	Emis	sions Unit Information	on S	Section is an
En	nissions Unit Desci	ription and Status				
1.	Type of Emissions	Unit Addressed in this	Sec	tion: (Check one)		
	This Emissions process or proc which has at le	s Unit Information Sect duction unit, or activity east one definable emiss	ion a , wh sion	addresses, as a single ich produces one or p point (stack or vent).	e en mor	nissions unit, a single e air pollutants and
	This Emissions of process or p point (stack or	s Unit Information Sect roduction units and act vent) but may also pro	ion a ivitie duce	addresses, as a single es which has at least fugitive emissions.	e en one	nissions unit, a group definable emission
	X This Emissions more process of	s Unit Information Sect or production units and	ion a activ	addresses, as a single vities which produce	e en fug	nissions unit, one or itive emissions only.
2. Fa	Description of Em cility Wide Fugitiv	issions Unit Addressed 7 e Emissions	in tl	nis Section:		
3.	Emissions Unit Ide	entification Number: N	lo II)		
4.	Emissions Unit	5. Commence	6.	Initial Startup	7.	Emissions Unit
Α	Status Code:	Date:		Date:		Major Group SIC Code:
					32	
8.	Federal Program A	Applicability: (Check a	ll tha	at apply) N/A		
	Acid Rain Uni	t				
	CAIR Unit					
	Hg Budget Un	it				
9.	Package Unit: Manufacturer:			Model Number:		
10	Generator Namepl	ate Rating: MW				
11	Emissions Unit Co	omment:				
Re	fer to Attachment	2010-FCB-EUXX-A1	1 su	bmitted 11/08/2010.	•	

Section [21]

Facility Wide Fugitive Emissions

Emissions Unit Control Equipment/Method: Control **1** of **2**

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1. Control Equipment/Method Description: Process Enclosed

of

2. Control Device or Method Code: 054

Emissions Unit Control Equipment/Method: Control <u>2</u> of <u>2</u>

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [21] of [36]

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:			

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

 Identification of Point on Plot Plan or Flow Diagram: 		2. Emission Point Type Code:				
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:						
4. ID Numbers or Description	ns of Emission Ur	nits with this Emission	n Point in Common:			
5. Discharge Type Code:	 Stack Height feet 		 Exit Diameter: feet 			
8. Exit Temperature: °F	9. Actual Volum acfm	metric Flow Rate:	10. Water Vapor: %			
11. Maximum Dry Standard F dscfm	low Rate:	12. Nonstack Emission Point Height: feet				
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)				
North (km) 15. Emission Point Comment:	:	Longitude (DD/I	MM/SS)			

EMISSIONS UNIT INFORMATION Section [21]

of

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Fugitive Emissions

[36]

2.	Source Classification Code 3-05-888-01	3. SCC Units: Tons Product (Clinker)			
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8. Maximum 9	% Ash:	9.	Million Btu per SCC Unit:

10. Segment Comment:

This segment represents facility-wide fugitive emissions related to the production of cement from:

- Raw Material Storage and Handling
- Clinker Storage and Handling
- Vehicle Traffic on Paved and Unpaved Roads •
- Wind Erosion from Stockpiles
- Mining and Quarrying Activities: Including Land Clearing, Drilling, Blasting
- **Fuel Storage Tanks** •
- Maintenance Activities: Including Maintenance Painting, Parts Cleaning, Welding •
- Diesel Engines
- Sand and Media Blasting for Maintenance Painting
- Emergency Generators
- **Railcar Traffic** ٠
- **Fugitive Emissions from Other Emissions Units** •

Facility Wide Fugitive Emissions

Section [21] of [36]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM			NS
PM ₁₀			NS
NO _x			NS
VOC			NS
СО			NS

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:	2. Total Perc	ent Efficie	ency of Control:
3. Potential Emissions: lb/hour	tons/year	4. Synth	netically Limited? Zes 🔲 No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: Reference:			7. Emissions Method Code:
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline From:	24-month	Period: Γο:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected	l Monitori ars 🔲 1	ng Period: 0 years
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Co	omment:		

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 _____ of _____

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

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 (Descrip	tion of Operating Method):

Allowable Emissions _____ of _____

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

CEMEX FACILITIES

EMISSIONS UNIT INFORMATIONSection [21]of [36]

Facility Wide Fugitive Emissions

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 _____ of _____

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
		Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: % E	xceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	red:	min/hour
4.	Method of Compliance:		
_			
5.	Visible Emissions Comment:		

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
		Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ed:	min/hour
4.	Method of Compliance:		
_			
5.	Visible Emissions Comment:		

EMISSIONS UNIT INFORMATIONSection [21]of [36]

Facility Wide Fugitive Emissions

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:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

EMISSIONS	UNIT	INFORMATION
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EMISSIONS UNIT INFORMATION				
Section [21] of [36] Facility Wide Fugitive En	ussions			
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) Attached, Document ID: Previously Submitted, Date	on			
 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 the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date 	within			
 3. Detailed Description of Control Equipment: (Required for all permit applications, exce V air operation permit revision applications if this information was submitted to the depart within the previous five years and would not be altered as a result of the revision being sou Attached, Document ID: Previously Submitted, Date 	pt Title ment ight)			
 4. Procedures for Startup and Shutdown: (Required for all operation permit applications, 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 sought) Attached, Document ID: Previously Submitted, Date 	except on being			
 5. Operation and Maintenance Plan: (Required for all permit applications, except Title V a operation permit revision applications if this information was submitted to the department the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date X Not Applicable 	air within			
 6. Compliance Demonstration Reports/Records: Attached, Document ID:				
X 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.	;			
Other Information Required by Rule or Statute: Attached, Document ID: X Not Applicable				

EMISSIONS UNIT INFORMATION Section [21] of [36]

Facility Wide Fugitive Emissions

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)):		
	Attached, Document ID: Not Applicable		
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-		
	212.500(4)(f), F.A.C.):		
	Attached, Document ID: Not Applicable		
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities		
	only)		
	Attached, Document ID: Not Applicable		
Ad	Additional Requirements for Title V Air Operation Permit Applications		
1.	Identification of Applicable Requirements:		
	Attached, Document ID:		

2.	Compliance Assurance Monitoring: Attached, Document ID:	X Not Applicable
3.	Alternative Methods of Operation: Attached, Document ID:	X Not Applicable
1	Alternative Modes of Operation (Emiss	ions Trading):

 4.
 Alternative Modes of Operation (Emissions Trading):

 □
 Attached, Document ID: ______ X Not Applicable

Additional Requirements Comment

Sources: Attachment 2010-FCB-EUXX-A11 submitted 11/08/2010.

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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 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.

CEMEX FACILITIES

EMISSIONS UNIT INFORMATION

Section [22] of [36]

EU 044 Kiln No. 2

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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)				
	X 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.				
 Description of Emissions Unit Addressed in this Section: Kiln No. 2, In-line Raw Mill, Pre-Heater, Pre-Calciner and Clinker Cooler 					
3.	. Emissions Unit Identification Number: 044				
4.	Emissions Unit Status Code:	5. Commence Construction Date: NA	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code:	
Α				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:					

CEMEX FACILITIES

EMISSIONS UNIT INFORMATION Section [22] of [36]

EU 044 Kiln No. 2

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>2</u>

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:
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 & f	lyash rate				
2. Maximum Production Ra	te:					
156 TPH; 3,500 TPD; 1,277,500 tons/consecutive 12-month clinker						
3. Maximum Heat Input Rat	e: 490 million Btu/hr, 24-hr avg	•				
4. Maximum Incineration R	ate: pounds/hr					
	tons/day					
5. Requested Maximum Ope	erating Schedule:					
	24 hours/day	7 days/week				
	52 weeks/year	8,760 hours/year				
6. Operating Capacity/Scheo	lule Comment:					

EMISSIONS UNIT INFORMATIONSection [22]of [36]

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 Equipment ID: 331.BF30	Points Comprising)0	g this	s Emissions Unit :	for VE Tracking:			
4.	4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:							
5.	Discharge Type Code: V	 Stack Height 318 feet 	•		 Exit Diameter: 10.1 feet 			
8.	Exit Temperature: 270 °F	9. Actual Volur 315,000 acfm	netri n	ic Flow Rate:	10. Water Vapor: 12 %			
11	. Maximum Dry Standard F 200,000 dscfm	low Rate:	12. Nonstack Emission Point Height: feet					
13	. Emission Point UTM Coo	rdinates	14. Emission Point Latitude/Longitude					
	Zone: East (km):		Latitude (DD/MM/SS)					
	North (km)	:	Longitude (DD/MM/SS)					
15	. Emission Point Comment:							

EMISSIONS UNIT INFORMATION Section [22] of [36]

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 3-05-006-13	3. SCC Units: Tons Processed			
4.	Maximum Hourly Rate: 335	5. Maximum 2 2,107,875	Maximum Annual Rate: 2,107,875		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 24hr 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 9	% 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).

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 3-05-006-14	3. SCC Units: Tons Processed			
4.	Maximum Hourly Rate: 156	5. Maximum <i>1</i> ,277,500	Annual Rate:	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/F

Industrial Processes; In-Process Fuel Use; Bituminous Coal; Cement Kiln Dryer (Bituminous Coal)

2.	Source Classification Code (SCC):			3.	3. SCC Units:			
	3-90-002-01			Tons Burned				
4.	Maximum Hourly Rate:	5.	5. Maximum Annual Rate:		6.	Estimated Annual Activity		
	20.0	175,200			Factor:			
7.	Maximum % Sulfur:	8.	Maximum	% A	Ash:	9.	Million Btu per SCC Unit:	
	No Limit		No Limit				26	
10	10. Segment Comment:							
An	Annual rate is based on the hourly rate and 8,760 hr/yr.							

EMISSIONS UNIT INFORMATION Section [22] of [36]

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. N 3	5. Maximum Annual Rate: 31,550		6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur: No Limit	8. N N	Maximum 9 N/A	% Ash:	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. SCC Units:		
	3-90-004-02			Thousand Gallons Burned		
4.	Maximum Hourly Rate:	5.	Maximum Annual Rate:		6.	Estimated Annual Activity
	3.60		31,550			Factor:
7.	Maximum % Sulfur:	8.	Maximum 9	% Ash:	9.	Million Btu per SCC Unit:
	No Limit		N/A			140
10.	Segment Comment:					

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. SCC Units:		
	3-90-008-99			Tons Burned		
4.	Maximum Hourly Rate:	5.	5. Maximum Annual Rate:		6.	Estimated Annual Activity
	20.0		175,200			Factor:
7.	Maximum % Sulfur:	8.	Typical %	Ash:	9.	Million Btu per SCC Unit:
	No Limit		0.5-5.0			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 (Pro	. Segment Description (Process/Fuel Type):					
Industrial Processes; In-Process Fuel Use; Liquified Petroleum Gas; Propane						
2. Source Classification Cod	le (SCC):	3. SCC Units:				
3-90-010-99		Thousand Gallons Burned				
4. Maximum Hourly Rate: 5.2	5. Maximum 45.550	Annual Rate:	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.

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. SCC Units:		
	3-90-012-99			Tons Burned		
4.	Maximum Hourly Rate:	5.	5. Maximum Annual Rate:		6.	Estimated Annual Activity
	5.20		45,675			Factor:
7.	Maximum % Sulfur:	8.	Maximum 9	% Ash:	9.	Million Btu per SCC Unit:
						28
10	Segment Comment:					

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. SCC Units:			
	3-90-012-99			Tons Burned		
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity
	To be Determined	To be Determined			Factor:	
7.	Maximum % Sulfur:	8.	8. Maximum % Ash:		9.	Million Btu per SCC Unit:
	No Limit		No Limit			To be Determined
10	Segment Comment:					

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

Segment Description and Rate: Segment 11 of 11

1.	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): 3-90-006-023. SCC Units: Million Cubic Feet Burned					t Burned			
4.	Maximum Hourly Rate: 0.500	5.	Maximum <i>4</i> 380	Annual Rate:	6.	Estimated Annual Activity Factor:		
7.	Maximum % Sulfur: Negligible	8.	Maximum 9 Negligible	% Ash:	9.	Million Btu per SCC Unit: 1,050		
10 Th	Segment Comment: e annual rate is based on	the	hourly rate	and 8,760 hr/yr	•			

Segment Description and Rate: Segment ____ of ____

1. Segment Description (Pro	ocess/Fuel Type):			
2. Source Classification Coc	le (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 [22] of [36]

EU 044 - Kiln No.2

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL
SO ₂			EL
NO _x	025	107	EL
СО			EL
VOC/THC			EL
H114 (Mercury)			EL

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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.

 PM 3. Potential Emissions: 28.8 lb/hour 117. 5. Range of Estimated Fugitive Emissions (as tons/year 6. Emission Eactor: 0 112 lb/ton of kiln feed 	6 tons/year 4. Synthetically Limited? 9 applicable): Yes X No					
 Potential Emissions: 28.8 lb/hour 117. Range of Estimated Fugitive Emissions (as tons/year Emission Eactor: 0 112 lb/ton of kiln feed 	4. Synthetically Limited? 6 tons/year Yes x No s applicable):					
 28.8 lb/hour 117. 5. Range of Estimated Fugitive Emissions (as tons/year 6. Emission Eactor: 0 112 lb/ton of kiln feed 	6 tons/year Yes X No					
 5. Range of Estimated Fugitive Emissions (as tons/year 6. Emission Eactor: 0 112 lb/ton of kiln feed 	s applicable):					
tons/year 6 Emission Eactor: 0 112 lb/ton of kiln feed						
6 Emission Factor: 0 112 lb/ton of kiln feed						
	, 0.185 lb/ton of clinker 7. Emissions					
	Method Code:					
Reference: Permit No. 0530021-018-AC and	3500 tpd Clinker 0					
8. Calculation of Emissions:						
258 ton/hr x 0.112 lb/ton = 28.8 lb/hr						
2,10/8/5 ton/yr x 0.112 lb/ton/2000 = 117.6	ton/yr					
Calculations based on Drobestor Food						
Calculations based on Preheater Reed						
Calculations based on Preheater Feed						
Calculations based on Preheater Feed						
Calculations based on Preheater Feed						
Calculations based on Preheater Feed						
Calculations based on Preheater Feed						
 9. Pollutant Potential/Estimated Fugitive Emis 	ssions Comment:					
9. Pollutant Potential/Estimated Fugitive Emis	ssions Comment:					
 9. Pollutant Potential/Estimated Fugitive Emis 	ssions Comment:					
258 ton/hr x 0.112 lb/ton = 28.8 lb/hr 2,107,875 ton/yr x 0.112 lb/ton/2000 = 117.6 ton/yr Calculations based on Preheater Feed						

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.

<u>Allowable Emissions</u> Allowable Emissions <u>1</u> of <u>1</u>

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

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POLLUTANT DETAIL INFORMATION Page [22] 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:	2. Total Perc	ent Efficie	ency of Control:			
PM_{10}						
3. Potential Emissions:		4. Synth	netically Limited?			
25.0 lb/hour 102.	3 tons/year	Y	es X 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 o	f clinker	7. Emissions			
			Method Code:			
Reference Permit No. 0530021-018-AC and 3	500 tpd Clinke	r	0			
8. Calculation of Emissions:						
258 ton/hr x 0.097 lb/ton = 25.0 lb/hr	t a					
2,107,875 ton/yr x 0.097 lb/ton/2000 = 102.3 t	ton/yr					
Calculations based on Preheater Feed						
9. Pollutant Potential/Estimated Fugitive Emissions Comment:						

POLLUTANT DETAIL INFORMATION Page [22] 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.

<u>Allowable Emissions</u> Allowable Emissions <u>1</u> of <u>1</u>

1.	Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions:						
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:						
	0.097 lb/ton of preheater feed		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):					
Ba	sed on Permit No. 0530021-018-AC and pro	opos	ed clinker production	rate of 3500 tpd.				
Lir	nit can be based either on Preheater Feed o	or C	linker Production.	•				
	Limit can be based entier on Freneater Feed of Chinker Froudcuon.							

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:	2. Total Percent Efficiency of Control:
3. Potential Emissions: 28.8 lb/hour 117.0	4. Synthetically Limited? δ tons/year
5. Range of Estimated Fugitive Emissions (as tons/year	applicable):
6. Emission Factor: 0.185 lb/ton of clinkerReference: Permit No. 0530021-018-AC and .	7. Emissions Method Code:3500 tpd Clinker0
 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 t Calculations based on Clinker Production 	on/yr
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:

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.

<u>Allowable Emissions</u> Allowable Emissions <u>1</u> of <u>1</u>

1.	Basis for Allowable Emissions Code: ESCPSD	2.	Future Effective Date of Emissions:	f Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable E	Emissions:
	0.185 lb/ton of clinker		28.8 lb/hour	117.6 tons/year
5.	Method of Compliance: EPA Method 6 or 6C, and SO ₂ CEMS.			
6. Ba Li	Allowable Emissions Comment (Description sed on Permit No. 0530021-018-AC and pro mit based on Clinker Production.	of (opos	Dperating Method): sed clinker production r	rate of 3500 tpd.

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:	2. Total Perc	ent Efficie	ency of Contro	ol:
NOx 3. Potential Emissions: 243.8 lb/hour 996.7	7 tons/year	4. Synth	etically Limit es X No	red?
5. Range of Estimated Fugitive Emissions (as tons/year	applicable):			
6. Emission Factor: 1.56 lb/ton of clinkerReference: Permit No. 0530021-018-AC and 3	3500 tpd Clink	er	7. Emission Method 0	ns Code:
 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 tor Calculations based on Clinker Production 	n/yr			
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment	:		

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.

<u>Allowable Emissions</u> Allowable Emissions <u>1</u> of <u>1</u>

1.	Basis for Allowable Emissions Code: ESCPSD	2.	Future Effective Date of Emissions:	Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable En	missions:
	1.56 lb/ton of clinker		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. 				

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 Efficie	ency of Control:		
3. Potential Emissions: 450 lb/hour 1,840 tons/year		netically Limited? es X No		
5. Range of Estimated Fugitive Emissions (as tons/year	applicable):			
6. Emission Factor: 2.88 lb/ton of clinkerReference: Permit No. 0530021-018-AC and .	3500 tpd Clinker	7. Emissions Method Code:0		
 8. Calculation of Emissions: 156 ton/hr x 2.88 lb/ton = 450 lb/hr 1,277,500 ton/yr x 2.88 lb/ton/2000 = 1,840 ton/yr Calculations based on Clinker Production 				
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:			

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code: ESCPSD	2.	Future Effective Date Emissions:	of Allowable
3.	Allowable Emissions and Units: 2.88 lb/ton of clinker	4.	Equivalent Allowable 450 lb/hour	Emissions: 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.

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

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/hour61.3	4. Synthetically3 tons/yearYes	/ Limited? No	
5. Range of Estimated Fugitive Emissions (as tons/year	applicable):		
6. Emission Factor: 0.096 lb/ton of clinker Reference: Permit No. 0530021-018-AC and 3	3500 tpd Clinker 7. Er 0	nissions ethod Code:	
Reference: Permit No. 0530021-018-AC and 3500 tpd Clinker 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			
 Pollutant Potential/Estimated Fugitive Emis VOC measured as THC and reported on 	sions Comment: a Propane basis		

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code: ESCPSD	2.	Future Effective Date Emissions:	of Allowable
3.	Allowable Emissions and Units: 0.096 lb/ton of clinker	4.	Equivalent Allowable 15.0 lb/hour	Emissions: 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.

POLLUTANT DETAIL INFORMATION Page [7] of [7] Mercury – H114

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:	2. Total Perc	ent Efficie	ncy of Control:
H114			
3. Potential Emissions:		4. Synth	etically Limited?
lb/hour 0.06	1 tons/year	Y	es X No
5. Range of Estimated Fugitive Emissions (as tons/year	applicable):		
6. Emission Factor: 41 μg/dscm			7. Emissions
			Method Code:
Reference: NESHAP Subpart LLL			0
8. Calculation of Emissions:			
0 Pollutont Potential/Estimated Eucitiva Emic	sions Common	•	
9. Pollutant Potential/Estimated Fugitive Emis	BACT This	nass limit	has haan
superseded by NESHAP Subpart LLL (December 2006) which set a concentration limit			
of 41 ug/dscm at 7% oxygen			

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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 [22] of [36]

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.

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{1}$

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE10	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	ed:	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 Allowabl	e Opacity:
			Rule	Other
3.	Allowable Opacity:			
	Normal Conditions:	% Ex	ceptional Conditions:	%
	Maximum Period of Excess Opac	city Allow	ed:	min/hour
4.	Method of Compliance:			
5.	Visible Emissions Comment:			

EMISSIONS UNIT INFORMATION Section [22] of [36]

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:	Rule X Other
4.	Monitor Information Manufacturer: ABB	
	Model Number: URAS 26	Serial Number: 04731961/5007
5.	Installation Date:	6. Performance Specification Test Date:
	NA	3/19/2010
7.	Continuous Monitor Comment: required b	by BACT

<u>Continuous Monitoring System:</u> Continuous Monitor <u>2</u> of <u>8</u>

1.	Parameter Code:	2.	Pollutant(s):
	EM		CO ₂
3.	CMS Requirement:	Rul	e 🗌 Other
4.	Monitor Information Manufacturer: ABB		
	Model Number: URAS 26		Serial Number: 0240326926/100
5.	Installation Date:	6.	Performance Specification Test Date:
	NA		3/19/2010
7.	Continuous Monitor Comment: required by G	HG	Rule, 40 CFR 98

EU 044 – Kiln No.2

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor <u>3</u> of <u>8</u>

1.	Parameter Code:	2. Pollutant(s):
	EM	NO, NO_2, SO_2
3.	CMS Requirement:	Rule X Other
4.	Monitor Information Manufacturer: ABB	
	Model Number: Limas 11 UV	Serial Number: 04731961/5001
5.	Installation Date:	6. Performance Specification Test Date:
	NA	3/19/2010
7.	Continuous Monitor Comment: required b	by BACT

Continuous Monitoring System: Continuous Monitor 4 of 8

2. Pollutant(s):
ТНС
Rule Other
Seciel Number: 047210(1/(010
Serial Number: 04/31901/0010
6. Performance Specification Test Date:
3/19/2010
Subpart LLL

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:	X Rule 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 b	y GHG Rule, 40 CFR 98 and BACT

<u>Continuous Monitoring System:</u> Continuous Monitor <u>6</u> of <u>8</u>

1.	Parameter Code:	2.	Pollutant(s):
	VE		Opacity
3.	CMS Requirement:	Ru	le X Other
4.	Monitor Information Manufacturer: Durag		G . I.N. I. 422024
	Model Number: D-R 290		Serial Number: 432024
5.	Installation Date:	6.	Performance Specification Test Date:
	NA		3/19/2010
7.	Continuous Monitor Comment: required by B	ACI	

EU 044 – Kiln No.2

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 7 of 8

1.	Parameter Code:	2.	Pollutant(s):
	EM		H ₂ O
3.	CMS Requirement:		Rule X Other
4.	Monitor Information Manufacturer: NEO Monitors		
	Model Number: Laser Gas II		Serial Number: 10075
5.	Installation Date:	6.	Performance Specification Test Date:
	NA		3/19/2010
	7. Continuous Monitor Comment:		
Re	equired by LLL and BACT for moisture co	orrec	ection.

<u>Continuous Monitoring System:</u> Continuous Monitor <u>8</u> of <u>8</u>

1.	Parameter Code:	2. Pollutant(s):
	EM	02
3.	CMS Requirement:	X Rule Other
4.	Monitor Information Manufacturer: ABB	G . IN I 047210/1/5007
	Model Number: URAS 26	Serial Number: 04/31961/5007
5.	Installation Date:	6. Performance Specification Test Date:
	NA	3/19/2010
7.	Continuous Monitor Comment: required b	y LLL for oxygen correction

EMISSIONS UNIT INFORMATION

Section [22] of [36]

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)
	Attached, Document ID: <u>2010-FCB-EU44-I1 Submitted 11/08/2010</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)
	Attached, Document ID: 2010-FCB-EU20-I2 Submitted 11/08/2010
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)
	Attached, Document ID: 2010-FCB-EU44-I3 Submitted 11/08/2010
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)
	Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
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)
	Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
6.	Compliance Demonstration Reports/Records:
	Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date: <u>1/16/2012</u>
	Test Date(s)/Pollutant(s) Tested: PM, SO2, NOx, CO, CO2, THC, RATAs
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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: X Not Applicable

EMISSIONS UNIT INFORMATION Section [22] of [36]

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)):			
	Attached, Document ID: X Not	Applicable		
2.	2. Good Engineering Practice Stack Height Analysis (R	ules 62-212.400(4)(d) and 62-		
	212.500(4)(f), F.A.C.):			
	Attached, Document ID: X Not	Applicable		
3.	3. Description of Stack Sampling Facilities: (Required to	. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities		
	only)			
	Attached, Document ID: X Not	Applicable		
Ad	Additional Requirements for Title V Air Operation Permit Applications			
1.	1. Identification of Applicable Requirements:			
	Attached, Document ID: 2010-FCB-EU44-ITV	l Submitted 11/08/2010		
2.	2. Compliance Assurance Monitoring:			

- Attached, Document ID: <u>2010-FCB-EU44-CAM Submitted 11/08/2010</u>
- 3. Alternative Methods of Operation:
- Attached, Document ID: _____ Not Applicable
- 4. Alternative Modes of Operation (Emissions Trading): Attached, Document ID: Not Applicable

Additional Requirements Comment

See Attachments A and B						

EMISSIONS UNIT INFORMATION

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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 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. (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 [23] of [36]

EU 045 Filter Dust Bin

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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.								
Em	Emissions Unit Description and Status								
1.	Type of Emissions	Unit Addressed in this S	Section: (Check one)						
	This Emissions process or proc which has at le	S Unit Information Section luction unit, or activity, a ast one definable emission	on addresses, as a single which produces one or 1 on point (stack or vent).	e emissions unit, a single more air pollutants and					
	x This Emissions of process or pr emission point	s Unit Information Section roduction units and active (stack or vent) but may	on addresses, as a single vities which have at leas also produce fugitive er	e emissions unit, a group it one definable nissions.					
	This Emissions more process o	S Unit Information Section r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.					
	2. Description of	Emissions Unit Address	ed in this Section:						
Tw Filt	o Emission Points er Dust Bin and F	: 'ilter Dust Bin Loadout	t Spout						
3.	Emissions Unit Ide	entification Number: 04	5						
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit					
	Status Code: A	Construction Date: NA	Date: NA	Major Group SIC Code:					
				32					
8.	Federal Program A	pplicability: (Check all	that apply)						
	Acid Rain Unit	t							
	CAIR Unit								
9.	Package Unit:								
10	Manufacturer:		Model Number:						
10.	Generator Namepla	ate Rating: MW							
11.	Emissions Unit Co	omment:							

EMISSIONS UNIT INFORMATION Section [23] of [36]

EU 045 Filter Dust Bin

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATIONSection [23]of [36]

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:

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 INFORMATIONSection [23]of [36]

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:				2. Emission Point Type Code: 3							
Filter Dust Bin and Filter Dust Bin Loadout Spout											
 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.	5. Discharge Type Code: 6. Stack Height feet				•		ameter:				
8. Exit Temperature: 9. Actual Volumerature: 9. Actual				metric Flow Rate: 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:											
	Baghouse Discharge Height Dia				Parai motor	meter Tomp		Flow	Moist		
	Daynouse	Code	(ft)	(Diai	ft)	(ºF)	(acfm)	(dscfm)	(%)		
	331.BF640 331.LS609	H H	90 25	1 0	.00 .38	392 375	3,400 8,000	2065 4958	2.0 2.0		

EMISSIONS UNIT INFORMATION Section [23] of [36]

EU 045 Filter Dust Bin

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>2</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Raw Material Transfer

2.	Source Classification Code 3-05-006-12	:	3. SCC Units: Tons Handled			
4.	Maximum Hourly Rate: 37.5	5. Ma 328	aximum A 8,500	Annual Rate:	6.	Estimated Annual Activity Factor:
7.	. Maximum % Sulfur: 8. Maximum 9			% 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.

<u>Segment Description and Rate:</u> Segment <u>2</u> of <u>2</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Raw Material Transfer

2.	Source Classification Code 3-05-006-12	CC):	3. SCC Units: Tons Handled			
4.	Maximum Hourly Rate:5.Maximum A8080,000		Annual Rate:	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.
CEMEX FACILITIES

EMISSIONS UNIT INFORMATION

Section [23] of [36]

EU 045 Filter Dust Bin

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL

EMISSIONS UNIT INFORMATION Section [23] of [36] EU 045 Filter Dust Bin

POLLUTANT DETAIL INFORMATION

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 Perce	ent Efficie	ency of Control:
3.Potential Emissions: 0.60 lb/hour2.63	3 tons/year	4. Synth	etically Limited? es 🕱 No
5. Range of Estimated Fugitive Emissions (as tons/year	s applicable):		
6. Emission Factor: 0.01 gr/dscf			7. Emissions Method Code:
Reference: Permit No. 0530021-018-AC, BAC			U
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:
tons/year	From:	Т	·o:
9.a. Projected Actual Emissions (if required):	9.b. Projected	Monitori	ng Period:
tons/year	5 yea	rs 🔲 1	0 years
10. Calculation of Emissions: 11. Potential, Fugitive, and Actual Emissions Comment:			
Represents both baghouses combined.			

EMISSIONS UNIT INFORMATION Section [23] of [36] EU 045 Filter Dust Bin

POLLUTANT DETAIL INFORMATION

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

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 [23] of [36] EU 045 Filter Dust Bin

POLLUTANT DETAIL INFORMATION

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:	2. Total Perc	ent Efficie	ency of Control:
PM ₁₀			
3. Potential Emissions:		4. Synth	etically Limited?
0.42 lb/hour 1.8 4	tons/year	□ Y	es X No
5. Range of Estimated Fugitive Emissions (as	s applicable):		
tons/year			
6. Emission Factor: 0.007 gr/dscf			7. Emissions
			Method Code:
Reference: Permit No. 0530021-018-AC, BAC	CT		0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:
tons/year	From:	Т	o:
9.a. Projected Actual Emissions (if required):	9.b. Projected	Monitori	ng Period:
tons/year	🗌 5 yea	rs 🗌 1	0 years
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment:			
Represents both baghouses combined.			

EMISSIONS UNIT INFORMATIONSection [23]of [36]EU 045 Filter Dust Bin

POLLUTANT DETAIL INFORMATION

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

<u>Allowable Emissions</u> 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):		

Section [23] of [36]

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE05	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Annual, EPA Method 9		
5.	Visible Emissions Comment:		
	Based on Permit No. 0530021-018-AC, BA	ACT and Rule 62-297.62	20(4), F.A.C.

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	V EUU	X Kule	Other
3.	Allowable Opacity:		
	Normal Conditions: 0 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	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).		

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:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

Se	ction [23] of [36] EU 045 Filter Dust Bin
Ad	I. EMISSIONS UNIT ADDITIONAL INFORMATION ditional 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) Attached, Document ID: 2010-FCB-EU45-I1 Submitted 11/08/2010
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) Attached, Document ID: 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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</u>
б.	Compliance Demonstration Reports/Records:
	X Previously Submitted, Date: <u>1/6/2012</u>
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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.

EMISSIONS UNIT INFORMATION Section [23] of [36]

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)):		
	Attached, Document ID: Not Applicable		
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-		
	212.500(4)(f), F.A.C.):		
	Attached, Document ID: Not Applicable		
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities		
	only)		
	Attached, Document ID: Not Applicable		
Ad	Iditional Requirements for Title V Air Operation Permit Applications		
1.	Identification of Applicable Requirements:		
	Attached, Document ID:2010-FCB-EU1-ITV1 (submitted 11/08/2010)		

- Compliance Assurance Monitoring:

 Attached, Document ID: <u>Refer comment</u> Not Applicable

 Alternative Methods of Operation:

 Attached, Document ID: ______ Not Applicable
 Alternative Modes of Operation (Emissions Trading):
- Attached, Document ID: _____ X Not Applicable

Additional Requirements Comment

EU 045 Filter Dust Bin is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

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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 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. (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 [24]

of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1. R or po	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 unregulated em	unit addressed in this Er issions unit.	nissions Unit Information	on Section is an			
Emis	sions Unit Descr	iption and Status					
1. T	ype of Emissions	Unit Addressed in this S	Section: (Check one)				
X	This Emissions process or prod which has at lea	Unit Information Section Auction unit, or activity, wast one definable emission	on addresses, as a single which produces one or 1 on point (stack or vent).	e emissions unit, a single nore air pollutants and			
	This Emissions of process or process or process or process or process or process or process.	Unit Information Section coduction units and active vent) but may also produced	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission			
	This Emissions more process o	Unit Information Section r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.			
2. D	Description of Emi	ssions Unit Addressed i	n this Section:				
Singl Blene	le Emission Point d Silo Input	t:					
3. E	missions Unit Ide	ntification Number: 04	6				
4. E	missions Unit	5. Commence	6. Initial Startup	7. Emissions Unit			
S	tatus Code:	Construction	Date: NA	Major Group			
Α		Date: NA		SIC Code:			
8 E	adaral Program A	nnlicability: (Check all	that apply)	52			
0. 1	□ Acid Rain Unit	ppheability. (Check an	that appry)				
	☐ CAIR Unit						
9. P	ackage Unit:						
N	Ianufacturer:		Model Number:				
10. G	enerator Namepla	ate Rating: MW					
11. E	missions Unit Co	mment:					

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Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

- 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 ____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [24] of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or T	hroughput Rate: 300 ton/hr dry bas	sis
2. Maximum Production F	Rate:	
3. Maximum Heat Input R	ate: million Btu/hr	
4. Maximum Incineration	Rate: pounds/hr	
	tons/day	
5. Requested Maximum O	perating Schedule:	
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
6 Operating Conseitu/Seh	adula Commanti	
Annual throughput bas	sed on 8760 hr/yr is 2,628,000 tpy	
Annual throughput ba	sed on 8760 hr/yr is 2,628,000 tpy	

EMISSIONS UNIT INFORMATION Section [24] of [36]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of P Flow Diagram: B	. Identification of Point on Plot Plan or Flow Diagram: Blend Silo		2. Emission Point Type Code: 1	
3. Descriptions of Er Baghouse ID 341	nission Points Comprisiną .BF400	g this Emissions Unit	for VE Tracking:	
4. ID Numbers or De	escriptions of Emission U	nits with this Emissior	Point in Common:	
5. Discharge Type C H	ode: 6. Stack Height 220 feet	::	 Exit Diameter: 1.53 feet 	
8. Exit Temperature: 188 °F	9. Actual Volu 8,100 acfm	metric Flow Rate:	10. Water Vapor: 2 %	
11. Maximum Dry Sta 6,468 dscfm	andard Flow Rate:	12. Nonstack Emissi feet	on Point Height:	
13. Emission Point U' Zone: Eas No	TM Coordinates st (km): rth (km):	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS) Longitude (DD/MM/SS)		
15. Emission Point Co	omment:			

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D. SEGMENT (PROCESS/FUEL) INFORMATION

<u>Segment Description and Rate:</u> Segment <u>1</u> of <u>1</u>

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:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity
	300		2,628,000			Factor:
7.	Maximum % Sulfur:	8.	Maximum 9	% 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 (Pro	. Segment Description (Process/Fuel Type):					
2 Source Classification Cod	le (SCC):	3 SCC Units:				
	ie (Bee).	J. Dee omts.				
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:						

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	017		EL
PM ₁₀	017		EL

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:2. TotalPM		tal Percent Efficiency of Control:	
3. Potential Emissions: 0.55 lb/hour 2.41	tons/year	4. Synth	etically Limited? es 🗴 No
5. Range of Estimated Fugitive Emissions (as tons/year	s applicable):		
6. Emission Factor: 0.01 gr/dscf Reference: Permit No. 0530021-018-AC BAC	۳ T		7. Emissions Method Code:0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline From:	24-month T	Period:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected	Monitorir rs 🔲 1(ng Period:) years
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions C	omment:		

EMISSIONS UNIT INFORMATION Section [24] of [36] EU 046 Blend Silo

POLLUTANT DETAIL INFORMATION Page [1] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
	0.01 gr/dscf		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				

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

Allowable Emissions _____ of _____

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

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

 Pollutant Emitted: PM₁₀ 	2. Total Percent Efficiency of Control:			
3. Potential Emissions:0.39 lb/hour1.71	4. 4.	Synth	etically Limited? es X No	
5. Range of Estimated Fugitive Emissions (as tons/year	applicable):			
6. Emission Factor: 0.007 gr/dscfReference: Permit No. 0530021-018-AC, BAC	CT		7. Emissions Method Code:0	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-n	nonth	Period:	
tons/year	From:	Т	ò:	
9.a. Projected Actual Emissions (if required):	9.b. Projected Mo	9.b. Projected Monitoring Period:		
tons/year	5 years		0 years	
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions Comment:				

EMISSIONS UNIT INFORMATION Section [24] of [36] EU 046 Blend Silo

POLLUTANT DETAIL INFORMATION Page [22] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable		
	OTHER		Emissions:	
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		
	0.007 gr/dscf 0.39 lb/hour 1.71 tons/		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			

<u>Allowable Emissions</u> 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	n of Operating Method):

EU 046 Blend Silo

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G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>2</u>

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE05	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Annual EPA Method 9		
5.	Visible Emissions Comment:		
	Based on Permit No. 0530021-018-AC, BA	ACT and Rule 62-297.62	20(4), F.A.C.

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: X Rule Other
3.	Allowable Opacity:Normal Conditions:0 % ExMaximum Period of Excess Opacity Allower	cceptional Conditions: % ed: min/hour
4. M	Method of Compliance: onthly, 1-minute EPA Method 22	
5.	Visible Emissions Comment:	
Ba	used on 40 CFR 63.1350(a)(4)(i).	

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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:	Rule 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:	Rule 🗌 Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATIONSection [24]of [36]

EU	046	Blend	Silo

of [36] EU 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) Attached, Document ID: <u>2010-FCB-EU46-I1 Submitted 11/08/2010</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) Attached, Document ID: 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) Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
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)
	Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</u>
6.	Compliance Demonstration Reports/Records:
	Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: 01/06/2012
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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:

EMISSIONS UNIT INFORMATION Section [24] [36]

of

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)):		
	Attached, Document ID: Not Applicable		
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-		
	212.500(4)(f), F.A.C.):		
	Attached, Document ID: Not Applicable		
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)		
	Attached, Document ID: Not Applicable		
Ad	Iditional Requirements for Title V Air Operation Permit Applications		
1.	Identification of Applicable Requirements:		
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)		

- 2. Compliance Assurance Monitoring: X Attached, Document ID: <u>Refer comment</u> Not Applicable 3. Alternative Methods of Operation: Attached, Document ID: **x** Not Applicable 4. Alternative Modes of Operation (Emissions Trading):
- **x** Not Applicable Attached, Document ID:

Additional Requirements Comment

EU 046 Blend Silo is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

Section [25] of [36]

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 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. (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.

EU 047 Kiln Feed Transport

Section [25] of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1.	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. 					
En	nissions Unit Descr	iption and Status				
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)			
	This Emissions process or proc which has at le	Unit Information Section luction unit, or activity, ast one definable emission	on addresses, as a single which produces one or p on point (stack or vent)	e emissions unit, a single more air pollutants and		
	x This Emiss group of proces emission point	ions Unit Information Sess or production units an (stack or vent) but may	ection addresses, as a si d activities which has a also produce fugitive er	ngle emissions unit, a t least one definable nissions.		
	This Emissions more process o	Unit Information Section r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or 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 Ide	entification Number: 04	7			
4. A	Emissions Unit Status Code:	5. Commence Construction Date: NA	6. Initial Startup Date: NA	 7. Emissions Unit Major Group SIC Code: 32 		
8.	Federal Program A	pplicability: (Check all	that apply)			
	Acid Rain Unit	t				
	CAIR Unit					
9.	Package Unit: Manufacturer:		Model Number:			
10.	10. Generator Nameplate Rating: MW					
11.	11. Emissions Unit Comment:					
1						

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Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

- 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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATIONSection [25]of [36]

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:	
	24 hours/day	5 days/week
	52 weeks/year	8,760 hours/year
6.	Operating Capacity/Schedule Comment:	
	Annual throughput based on 365 day/yr and 5775 tpd is 2,107,875	' tpy

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C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identificati	on of Point o	n Plot Pla	an or	2. Emission Point Type Code:					
Flow Diag	ram: Blend S	Silo Discl	harge,	3					
Kiln Feed Bin	and Kiln Fe	ed Tran	sport						
Kiln Feed Bin and Kiln Feed Transport 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. St	eet	t: 7. Exit Diameter: feet					
8. Exit Temp °F	erature:	9. A	ctual Volun fm	metric Flow Rate: 10. Water Vapor: %					
11. Maximum dscfm	Dry Standard	Flow Ra	ate:	12. Non feet	stack Em	nission Poir	nt Height:		
13. Emission F	Point UTM Co	oordinate	·S	14. Emi	ssion Poi	nt Latitude	/Longitude		
Zone:	East (km):		Latitude (DD/MM/SS)					
	North (kı	n):		Longitude (DD/MM/SS)					
15. Emission F	Point Comme	nt:							
			Pa	arameter					
Baghouse	Discharge	Height	Diameter	Temp	F	low	Moist		
	Code	(ft)	(ft)	(ºF)	(acfm)	(dscfm)	(%)		
341.BF410	Н	28	0.69	188	900 7 100	719 5660	2.0		
351.BF410 351 BF420	п	91 280	1.37	188	11 700	9343	2.0		
001101 420	• 1	200	1.70	100	11,700	0070	2.0		

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>1</u>

[36]

1. Segment Description (Process/Fuel Type):

of

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Raw Material Transfer

2.	 Source Classification Code (SCC): 3-05-006-12 			3. SCC Units:			
				Tons Hand			
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity	
	258		2,107,875			Factor:	
7.	Maximum % Sulfur:	8.	Maximum 9	% 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 (Pro	cess/Fuel Type):						
2. Source Classification Cod	e (SCC):	3. SCC Units:					
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity Factor:				
7. Maximum % Sulfur:	7. Maximum % Sulfur: 8. Maximum		9. Million Btu per SCC Unit:				
10. Segment Comment:							

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EU 047 Kiln Feed Transport

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	017		EL
PM ₁₀	017		EL

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:	2. Total Percent Efficiency of Control:						
PM							
3. Potential Emissions:	4. Synth	netically Limited?					
2.64 lb/hour 11.0	6 tons/year Y	es X No					
5. Range of Estimated Fugitive Emissions (as	s applicable):						
tons/year							
6. Emission Factor: 0.01 gr/dscf (each bagho	ouse)	7. Emissions					
		Method Code:					
Reference: Permit No. 0530021-018-AC, BAC	CT	0					
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:					
tons/year	From:	Го:					
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:					
tons/year	5 years 10 years						
10. Calculation of Emissions:							
11. Potential, Fugitive, and Actual Emissions Comment:							
Emissions represent an 5 bagnouses combine	.						

POLLUTANT DETAIL INFORMATION Page [1] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable		
	OTHER		Emissions:	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:	
	0.01 gr/dscf (each baghouse)		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, BA combined.	СТ	Emissions represent all 3 baghouses	

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 (Deprating Method):		

<u>Allowable Emissions</u> 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 INFORMATIONPOLLUTANT DETAIL INFORMATIONSection [25] of [36]Page [22] of [22]EU 047 Kiln Feed TransportParticulate Matter – PM10F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

. 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: 1.84 lb/hour 8.1	tons/year	4. Synth	etically Limited? Tes X No			
5. Range of Estimated Fugitive Emissions (as tons/year	s applicable):					
6. Emission Factor: 0.007 gr/dscf (each bagh Reference: Permit No. 0530021-018-AC, BAC	ouse) CT		7. Emissions Method Code:0			
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 2 From:	24-month T	Period: To:			
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period:					
10. Calculation of Emissions:						
11. Potential, Fugitive, and Actual Emissions C Emissions represent all 3 baghouses combine	 Potential, Fugitive, and Actual Emissions Comment: Emissions represent all 3 baghouses combined. 					

POLLUTANT DETAIL INFORMATION Page [22] of [22] 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

Allowable						
nissions:						
8.1 tons/year						
Annual, EPA Method 9						
Allowable Emissions Comment (Description of Operating Method):						
Based on Permit No. 0530021-018-AC, BACT.						
Emissions represent all 3 baghouses combined.						
1						

Allowable Emissions _____ of _____

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

<u>Allowable Emissions</u> 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):

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G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>2</u>

1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:			
	VE05	X Rule	Other		
3.	Allowable Opacity:				
	Normal Conditions: 5 % Ex	ceptional Conditions:	%		
	Maximum Period of Excess Opacity Allowe	ed:	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.				

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{2}$ of $\underline{2}$

1.	Visible Emissions Subtype: VE00	2. Basis for Allowable (X Rule	Dpacity:		
3.	Allowable Opacity:Normal Conditions:0 % ExMaximum Period of Excess Opacity Allower	ceptional Conditions: ed:	% 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 [25] of [36]

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:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

Section

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	I. EMI	ISSIONS U	JNIT 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) Attached, Document ID2010-FCB-EU47-I1 Submitted 11/08/2010
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) Attached, Document ID: 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) Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</u>
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: <u>1/6/2012</u> Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	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:

EMISSIONS UNIT INFORMATION Section [25]

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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)):
	Attached, Document ID: Not Applicable
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):
	Attached, Document ID: Not Applicable
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities
	only)
	Attached, Document ID: Not Applicable
Ad	Iditional Requirements for Title V Air Operation Permit Applications
1.	Identification of Applicable Requirements:
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)

- 2. Compliance Assurance Monitoring: X Attached, Document ID: <u>Refer comment</u> Not Applicable 3. Alternative Methods of Operation: Attached, Document ID: **x** Not Applicable 4. Alternative Modes of Operation (Emissions Trading):
- **x** Not Applicable Attached, Document ID:

Additional Requirements Comment

EU 047 Kiln Feed Transport is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

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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 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. (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.

EU 048 Clinker Transport

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A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classifica	ation
---	-------

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 							
Er	nissions Unit Descr	institution and Status						
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)					
	This Emissions process or proc which has at le	S Unit Information Section luction unit, or activity, ast one definable emission	on addresses, as a single which produces one or a on point (stack or vent)	e emissions unit, a single more air pollutants and				
	of process or p point (stack or	s Unit Information Section roduction units and active vent) but may also prod	on addresses, as a single vities which has at least uce fugitive emissions.	one definable emission				
	This Emissions more process o	S Unit Information Section r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.				
2.	Description of Em Single Emission P Clinker Transpor	issions Unit Addressed i Point: •t	n this Section:					
3.	Emissions Unit Ide	entification Number: 04	8					
4. A	Emissions Unit Status Code:	5. Commence Construction Date: NA	6. Initial Startup Date: NA	 7. Emissions Unit Major Group SIC Code: 32 				
8.	8. Federal Program Applicability: (Check all that apply) 32 CAIR Unit CAIR Unit							
9.	. Package Unit: Manufacturer: Model Number:							
10	. Generator Namepl	ate Rating: MW						
11	10. Generator Nameplate Rating: MW 11. Emissions Unit Comment:							

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Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [26] of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Thro	oughput Rate: 156 tph				
2. Maximum Production Rate	e:				
3. Maximum Heat Input Rate	e: million Btu/hr				
4. Maximum Incineration Ra	te: pounds/hr				
	tons/day				
5. Requested Maximum Oper	rating Schedule:				
	24 hours/day	7 days/week			
	52 weeks/year	8,760 hours/year			
6. Operating Capacity/Scl	hedule Comment:				
6. Operating Capacity/Schedule Comment: Annual rate based on 365 day/yr and 3500 tpd is 1,277,500 tpy					

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1.	1. Identification of Point on Plot Plan or		2. Emission Point Type Code:		
	Flow Diagram: Clinker Transport		1		
3.	Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:	
	Baghouse ID 471.BF110				
4.	ID Numbers or Descriptio	ns of Emission Ur	nits with this Emission	n Point in Common:	
5	Discharge Type Code:	6 Stack Height	•	7 Exit Diameter	
5.	H	15 feet	•	1.29 feet	
8	Exit Temperature:	9 Actual Volum	netric Flow Rate	10 Water Vapor	
0.	392 °F	4,200 acfm	netrie 110 w Rute.	2 %	
11.	Maximum Dry Standard F	low Rate:	12. Nonstack Emissi	ion Point Height:	
	2,551 dscfm		feet		
13.	Emission Point UTM Coo	rdinates	14. Emission Point Latitude/Longitude		
	Zone: East (km):		Latitude (DD/MM/SS)		
North (km):		Longitude (DD/MM/SS)			
15. Emission Point Comment:			I		

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>1</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Clinker Transfer

2.	Source Classification Code (SCC):		3. SCC Units:				
	3-05-006-16		Tons Clink	ker I	Produced		
4.	Maximum Hourly Rate:	5.	Maximum .	Annual Rate:	6.	Estimated Annual Activity	
	156		1,277,500			Factor:	
7.	Maximum % Sulfur:	8.	Maximum	% Ash:	9.	Million Btu per SCC Unit:	
10. Segment Comment:							
An	nual rate is based on the o	daily	y rate of 350	0 tpd and 365 d	lay/	yr.	

Segment Description and Rate: Segment ____ of ____

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

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EU 048 Clinker Transport

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL

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 Perc	ent Efficie	ency of Control:	
3. Potential Emissions: 0.22 lb/hour 0.90	6 tons/year	4. Synth	netically Limited? Yes X No	
5. Range of Estimated Fugitive Emissions (as applicable): tons/year				
6. Emission Factor: 0.01 gr/dscf			7. Emissions Method Code:	
Reference: Permit No. 0530021-018-AC, BAC	CT		0	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:	
tons/year	From:	ſ	Го:	
9.a. Projected Actual Emissions (if required):	9.b. Projected	l Monitori	ng Period:	
tons/year	🗌 5 yea	rs 🗌 1	0 years	
 10. Calculation of Emissions: 11. Potential, Fugitive, and Actual Emissions C 	omment:			

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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.	5. Method of Compliance: Annual, EPA Method 9				
6.	 Allowable Emissions Comment (Description of Operating Method): Based on Permit No. 0530021-018-AC, BACT 				

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

Allowable Emissions _____ of _____

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

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 Eff	iciency of Control:
3. Potential Emissions: 0.15 lb/hour 0.67	tons/year 4. Sy	nthetically Limited? Yes X No
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):	
6. Emission Factor: 0.007 gr/dscfReference: Permit No. 0530021-018-AC, BAC	CT	7. Emissions Method Code:0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-mo	nth Period:
tons/year	From:	To:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monit	toring Period:
tons/year	5 years	10 years
10. Calculation of Emissions:		
11. Potential, Fugitive, and Actual Emissions Co	omment:	

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 1 of 1

		_		
1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Emissions:	Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable En	missions:
	0.007 gr/dscf		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 _____ of ____

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

1. Basis for Allowable Emission	s Code: 2.	Future Effective Date Emissions:	e of Allowable
3. Allowable Emissions and Un	its: 4.	Equivalent Allowable	e Emissions:
		lb/hour	tons/year
5. Method of Compliance:			
6. Allowable Emissions Comme	nt (Description of	Operating Method):	

EU 048 Clinker Transport

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G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>2</u>

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE05	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Annual, EPA Method 9		
5.	Visible Emissions Comment:		
	Based on Permit No. 0530021-018-AC, BA	ACT and Rule 62-297.62	20(4), F.A.C.

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>2</u> of <u>2</u>

1.	Visible Emissions Subtype: VE00	2. Basis for Allowable X Rule	Opacity:
3.	Allowable Opacity:Normal Conditions:0 % ExMaximum Period of Excess Opacity Allowation	cceptional Conditions:	% min/hour
4.	Method of Compliance: Monthly, 1-minute EPA Method 22		
5.	Visible Emissions Comment:		
	Based on 40 CFK 63.1350(a)(4)(1).		

EMISSIONS UNIT INFORMATION Section [26]

of

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 _____

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

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	of	[36]			EU	048 Clinker	Transport
I.	EMI	SSIONS I	UNIT	ADDITIONAL	INFORM A	ATION	

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) Attached, Document ID: 2010-FCB-EU48-I1 Submitted 11/08/2010
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) Attached, Document ID: 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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</u>
6.	Compliance Demonstration Reports/Records:
	I est Date(s)/Pollutant(s) Tested: X Previously Submitted, Date: 1/6/2012
	Test Date(s)/Pollutant(s) Tested: <u>VE</u> To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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: X Not Applicable

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of

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)):
	Attached, Document ID: Not Applicable
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):
	Attached, Document ID: Not Applicable
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)
	Attached, Document ID: Not Applicable
Ad	ditional Requirements for Title V Air Operation Permit Applications
1.	Identification of Applicable Requirements:
	Attached, Document ID:2010-FCB-EU1-ITV1 (submitted 11/08/2010)

- 2. Compliance Assurance Monitoring: X Attached, Document ID: <u>Refer comment</u> Not Applicable 3. Alternative Methods of Operation: Attached, Document ID: **x** Not Applicable 4. Alternative Modes of Operation (Emissions Trading):
- **x** Not Applicable Attached, Document ID:

Additional Requirements Comment

EU 048 Clinker Transport is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

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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 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. (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.

EU 050 Clinker Storage Silo

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A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1. Re or pe	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 emissions unit.	unit addressed in this Er	nissions Unit Information	on Section is a regulated			
	The emissions unregulated em	unit addressed in this Er hissions unit.	nissions Unit Information	on Section is an			
Emiss	sions Unit Descr	iption and Status					
1. Ty	pe of Emissions	Unit Addressed in this S	Section: (Check one)				
	This Emissions process or prod which has at lea	Unit Information Section luction unit, or activity, ast one definable emission	on addresses, as a single which produces one or r on point (stack or vent).	e emissions unit, a single more air pollutants and			
X	This Emiss group of proces emission point	ions Unit Information Sessor production units an (stack or vent) but may	ection addresses, as a si d activities which has a also produce fugitive er	ngle emissions unit, a t least one definable nissions.			
] This Emissions more process o	Unit Information Section r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.			
2. De	escription of Emi	issions Unit Addressed i	n this Section:				
Three	e Emission Point	ts: to 1 and 2 and Clinkor	Storage Sile				
3. Er	nissions Unit Ide	$\mathbf{v}_{\mathbf{r}}$	0				
4. Er	nissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit Major Group			
A	atus Coue.	Date: NA	Date: NA	SIC Code:			
				32			
8. Fe	deral Program A	pplicability: (Check all	that apply)	I			
] Acid Rain Unit						
	CAIR Unit						
9. Pa	9. Package Unit:						
M	Manufacturer: Model Number:						
10. Ge	10. Generator Nameplate Rating: MW						
11. Er	nissions Unit Co	mment:					

of

Section [27]

EU 050 Clinker Storage Silo

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

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- 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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [27] of [36]

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:				
4.	Maximum Incineration Rate: pounds/hr				
	tons/day				
5.	Requested Maximum Operating Schedule:				
	hours/day	days/week			
	weeks/year	hours/year			
6.	5. Operating Capacity/Schedule Comment:				

Baghouse	M Throu	aximum Jghput Rate	Operating Schedule				
	(tph)	(tpy)	(hr/day)	(day/wk)	(wk/yr)	(hr/yr)	
Dischg 1-481.BF155	215	1,612,500	24	7	52	8760	
Dischg 2-481.BF165	215	1,612,500	24	7	52	8760	
Clk Silo -471.BF120	156	1,277,500	24	7	52	8760	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Ic	. Identification of Point on Plot Plan or				2. Emission Point Type Code:				
F	low Diagram:	Clinker St	torage &		3				
		Discharge	9						
 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. II	O Numbers or	Description	s of Emissio	on Ur	nits wit	th this Ei	nission	Point in Co	ommon:
5. E	5. Discharge Type Code:6. Stack Heigh				t: 7. Exit Diameter:			ameter:	
8 F	vit Temperatu	ro.	Q Actual V	Volur	metric Flow Rate: 10 Water Vapor:				lanor.
0. L °]	F	10.	acfm	v olul	%				apor.
11. M d	laximum Dry scfm	Standard Fl	ow Rate:		12. Nonstack Emission Point Height: feet				
13. E	mission Point	UTM Coor	dinates		14. Emission Point Latitude/Longitude				
Z	lone: I	East (km):			Latitude (DD/MM/SS)				
	1	North (km):			Longitude (DD/MM/SS)				
15. E	mission Point	Comment:							
			I		Para	meter			1
	Baghouse	Discharge	e Height	Diar	neter	Temp	F		Moist
	191 DE165	Code	(†t) 16	<u>(</u>	1t) 09	(ºF) 216	(actm)	(dsctm)	(%)
	481.BF165	н	16	1	.08	210 216	2,871	2190	2.0
	471.BF120	н	105 1		.70	125	13,200	11676	2.0

of

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>2</u>

[36]

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		
	5-05-000-15			Tons Cement I Toudeeu		
4.	Maximum Hourly Rate: 215	5.	Maximum <i>A</i> 1,612,500	Annual Rate:	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.

<u>Segment Description and Rate:</u> Segment <u>2</u> of <u>2</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Clinker Piles (Storage Silos)

2.	Source Classification Code 3-05-006-15	3. SCC Units: Tons Cement Produced			
4.	Maximum Hourly Rate: 156	5. Maximum 1,277,500	Annual Rate:	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.

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EU 050 Clinker Storage Silo

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant	
	Device Code	Device Code	Regulatory Code	
PM	016		EL	
PM ₁₀	016		EL	

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:	2. Total Percent Ef	ficie	ncy of Control:			
3. Potential Emissions:	4. <u>S</u>	ynth	etically Limited?			
0.99 lb/hour 4.3 4	tons/year	Y	es X No			
5. Range of Estimated Fugitive Emissions (as tons/year	5. Range of Estimated Fugitive Emissions (as applicable): tons/year					
6. Emission Factor: 0.01 gr/dscf (each bagho	use)		7. Emissions			
			Method Code:			
Reference: Permit No. 0530021-018-AC, BAC	CT		0			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-mo	onth	Period:			
tons/year	From:	Т	0:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Mon	itorir	ng Period:			
tons/year	\Box 5 years \Box 10 years					
10. Calculation of Emissions:		_	-			
11. Potential, Fugitive, and Actual Emissions Comment:						
Represents total emissions for all 3 baghouse	s combined.					

POLLUTANT DETAIL INFORMATION Page [1] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable					
	OTHER		Emissions:				
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:				
	0.01 gr/dscf (each baghouse)		0.99 lb/hour 4.34 tons/year				
5.	5. Method of Compliance:						
An	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.						

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

<u>Allowable Emissions</u> 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):

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:	2. Total Percent Effici	ency of Control:		
PM ₁₀				
3. Potential Emissions:	4. Synth	hetically Limited?		
0.70 lb/hour 3.	tons/year	es X No		
5. Range of Estimated Fugitive Emissions (as	s applicable):			
tons/year		.		
6. Emission Factor: 0.007 gr/dscf (each bagh	ouse)	7. Emissions		
		Method Code:		
Reference: Permit No. 0530021-018-AC, BAC		0		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:		
tons/year	From:	Го:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitor	ing Period:		
tons/year	5 years 1	0 years		
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions Comment:				
Represents total emissions for all 3 baghouse	s combined.			

EMISSIONS UNIT INFORMATIONPOLLUTANT DETAIL INFORMATIONSection[27] of [36]Page [22] of [22]EU 050 Clinker Storage SiloParticulate Matter – PM10F2. 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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

<u>Allowable Emissions</u> 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 _____ 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 [27] of [36] Silo

G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>1</u>

1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:	
	VE10	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	EPA Method 9 annually		
~			
5.:	VISIBLE Emissions Comment		
	Based on Permit No. 0530021-018-AC	, BACT and Rule 62-29	97.620(4), F.A.C.

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{2}$ of $\underline{2}$

1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:		
	VE00	X Rule	Other	
3.	Allowable Opacity:			
	Normal Conditions: 0 % Ex	ceptional Conditions:	%	
	Maximum Period of Excess Opacity Allowe	ed:	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).			

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H. CONTINUOUS MONITOR INFORMATION

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

<u>Co</u>	Continuous Monitoring System: Continuous Monitor of				
1.	Parameter Code:	2. Pollutant(s):			
3.	CMS Requirement:	Rule 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:	Rule 🗌 Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

Section	[27]	of	[36]	EU 050 Clinker Storage Silo
		I. EMI	SSIONS	UNIT ADDITIONAL INFORMATION
Addition	nal Requ	irements	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) $\overline{\mathbf{X}}$ Attached, Document ID: <u>2010-FCB-EU50-I1 Submitted 11/08/2010</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) Attached, Document ID: 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) X Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</u>
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: <u>1/6/2012</u>
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	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: X Not Applicable

of

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Section [27]

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)):					
	Attached, Document ID: Not Applicable					
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-					
	212.500(4)(f), F.A.C.):					
	Attached, Document ID: Not Applicable					
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities					
	Attached, Document ID: Not Applicable					
Additional Requirements for Title V Air Operation Permit Applications						
1.	Identification of Applicable Requirements:					
	Attached, Document ID:2010-FCB-EU1-ITV1 (submitted 11/08/2010)					

- 2. Compliance Assurance Monitoring:

 Attached, Document ID: Refer comment Not Applicable

 3. Alternative Methods of Operation:

 Attached, Document ID:
 X Not Applicable

 4. Alternative Modes of Operation (Emissions Trading):
- Attached, Document ID: _____ X Not Applicable

Additional Requirements Comment

EU 050 Clinker Storage Silo is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

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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 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. (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.

EU 051 Finish Mill Additives

Section [28] of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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)					
	X 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	5. Commence	6. Initial Startup	7. Emissions Unit		
	Status Code:	Construction	Date: NA	Major Group		
Α		Date: NA		SIC Code:		
0						
0.	\Box Acid Pain Unit					
	CAIR Unit					
9.	P. Package Unit:					
	Manufacturer: Model Number:					
10. Generator Nameplate Rating: MW						
11. Emissions Unit Comment:						

of

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EU 051 Finish Mill Additives

Emissions Unit Control Equipment/Method: Control **1** of **1**

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- 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 _____

Control Equipment/Method Description:
 Control Device or Method Code:
EMISSIONS UNIT INFORMATIONSection [28]of [36]

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:	
24 hours/day	7 days/week
52 weeks/year	7500 hours/year
6. Operating Capacity/Schedule Comment:	
Annual rate based on 127 tph and 7500 hr/yr is 953,250 tp	ру

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

	(Optional for unregulated emissions units.)				
En	Emission Point Description and Type				
1.	Identification of Point on I	Plot Plan or	2. Emission Point	Type Code:	
	Flow Diagram: Finish M	ill Additives	1	v 1	
3.	Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:	
	Baghouse ID 511.BF650	r r c		8	
	2				
4.	ID Numbers or Description	ns of Emission Ur	nits with this Emissio	n Point in Common:	
	1				
				T	
5.	Discharge Type Code:	6. Stack Height	-•	7. Exit Diameter:	
	Н	33 feet		1.37 feet	
8.	Exit Temperature:	9. Actual Volur	metric Flow Rate:	10. Water Vapor:	
	104 °F	7,300 acfm 2 %		2 %	
11.	. Maximum Dry Standard F	Flow Rate: 12. Nonstack Emission Point Heigh		ion Point Height:	
	6,697 dscfm		feet	C	
13.	. Emission Point UTM Coo	rdinates	14. Emission Point	Latitude/Longitude	

North (km):

15. Emission Point Comment:

Longitude (DD/MM/SS)

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of

D. SEGMENT (PROCESS/FUEL) INFORMATION

<u>Segment Description and Rate:</u> Segment <u>1</u> of <u>1</u>

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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. SCC Units:					
3-05-006-27	Tons Mate	rial	Processed				
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity			
127	953,250			Factor:			
7. Maximum % Sulfur:	8. Maximum % Ash:		9.	Million Btu per SCC Unit:			
10. Segment Comment:							
The annual rate is based on	The annual rate is based on the hourly rate and 7500 hr/yr.						

EMISSIONS UNIT INFORMATION

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EU 051 Finish Mill Additives

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018		EL
PM ₁₀	018		EL

EU 051 Finish Mill Additives

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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:	2. Total Percent Efficiency of Control:			
PM				
3. Potential Emissions:	4. Sy	nthetically Limited?		
0.57 lb/hour 2.1 4	tons/year	Yes X No		
5. Range of Estimated Fugitive Emissions (as	s applicable):			
tons/year				
6. Emission Factor: 0.01 gr/dscf		7. Emissions		
		Method Code:		
Reference: Permit No. 0530021-018-AC, BAC	CT	0		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-mon	th Period:		
tons/year	From:	To:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monito	oring Period:		
tons/year	5 years	10 years		
10. Calculation of Emissions:	I			
11. Potential, Fugitive, and Actual Emissions Comment:				
1				

POLLUTANT DETAIL INFORMATION Page [1] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

<u>Allowable Emissions</u> 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):

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:2. Total Percent Efficience		nt Efficie	ency of Control:	
PM_{10}				
3. Potential Emissions:	2	4. Synth	etically Limited?	
0.40 lb/hour 1.50	tons/year	<u> </u>	es X No	
5. Range of Estimated Fugitive Emissions (as tons/year	s applicable):			
6. Emission Factor: 0.007 gr/dscf			7. Emissions	
			Method Code:	
Reference: Permit No. 0530021-018-AC, BAC	CT		0	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 2	4-month	Period:	
tons/year	From:	Т	`o:	
9.a. Projected Actual Emissions (if required):	9.b. Projected I	Monitori	ng Period:	
tons/year	5 years	s 🗌 1	0 years	
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions Comment:				

POLLUTANT DETAIL INFORMATION Page [22] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable	
	OTHER		Emissions:	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:	
	0.007 gr/dscf (each baghouse)		0.40 lb/hour 1.50 tons/year	
5.	5. Method of Compliance:			
An	nnual compliance test using EPA Method 9.			
6.	Allowable Emissions Comment (Description	of (Operating Method):	
Ba	sed on Permit No. 0530021-018-AC, BACT	•		

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

<u>Allowable Emissions</u> Allowable Emissions _____ of _____

1. Basis for Allowable Emissions	Code: 2. Fu Ei	ture Effective D	ate of Allowable
3. Allowable Emissions and Units	4. Ec	quivalent Allowa lb/hour	ble Emissions: tons/year
5. Method of Compliance:			
6. Allowable Emissions Comment	(Description of Ope	erating Method):	

EMISSIONS UNIT INFORMATION

EU 051 Finish Mill Additives

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G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:
VE05	X Rule Dther
3. Allowable Opacity:	
Normal Conditions: 5 % Exc	ceptional Conditions: %
Maximum Period of Excess Opacity Allower	d: 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.

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>2</u> of <u>2</u>

1.	Visible Emissions Subtype:	2. Basis for Allowabl	e Opacity:
	VE00	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 0 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
M	onthly, 1-minute EPA Method 22		
5.	Visible Emissions Comment:		
Ba	used on 40 CFR 63.1350(a)(4)(i).		

EMISSIONS UNIT INFORMATION Section [28] of [36]

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:	Rule 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:	Rule 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	[28]	of	[36]	EU 051 Finish Mill Additives
		I. EMI	SSIONS	UNIT ADDITIONAL INFORMATION
Addition	al Reau	irements	s for All	Annlications Excent as Otherwise Stated

AU	iunional Requirements for An 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) $\overline{\mathbf{X}}$ Attached, Document ID: 2010-FCB-EU51-I1 Submitted 11/08/2010
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) Attached, Document ID: 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) $\overline{\mathbf{X}}$ Attached, Document ID: : <u>2010-FCB-O&M Submitted 11/08/2010</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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2010</u>
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: 1/6/2012 Test Date(s)/Pollutant(s) Tested: VE
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	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:

EMISSIONS UNIT INFORMATION Section [28] of [36]

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)):				
	Attached, Document ID: Not Applicable				
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-				
	212.500(4)(f), F.A.C.):				
	Attached, Document ID: Not Applicable				
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities				
	only)				
	Attached, Document ID: Not Applicable				
Ad	Additional Requirements for Title V Air Operation Permit Applications				
1.	Identification of Applicable Requirements:				
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)				

- Compliance Assurance Monitoring:

 Attached, Document ID: <u>Refer comment</u> Not Applicable

 Alternative Methods of Operation:

 Attached, Document ID: ______ Not Applicable

 Alternative Modes of Operation (Emissions Trading):
- Attached, Document ID: X Not Applicable

Additional Requirements Comment

EU 051 Finish Mill Additives is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

EMISSIONS UNIT INFORMATION

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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 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. (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 [29] of [36]

EU 052 Finish Mill & Air Heater

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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.					
En	nissions Unit Descr	ription and Status				
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)			
	This Emissions process or proc which has at le	S Unit Information Section luction unit, or activity, ast one definable emission	on addresses, as a single which produces one or 1 on point (stack or vent).	e emissions unit, a single nore air pollutants and		
	This Emissions of process or p point (stack or	s Unit Information Section roduction units and active vent) but may also produced	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission		
	This Emissions more process o	S Unit Information Section r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.		
2.	Description of Em Single Emission P Finish Mill and A	issions Unit Addressed i 'oint: ir Heater	n this Section:			
3.	Emissions Unit Ide	entification Number: 05	2			
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit		
•	Status Code:	Construction	Date: NA	Major Group		
A		Date. NA		32		
0	Enderel Dreeners A	pplicability: (Check all	that apply)			
8.	Federal Program A	pphouointy. (Oneon an	(inde uppig)			
8.	Acid Rain Unit	t	line apply)			
8.	Acid Rain Unit	t	unit uppij)			
8. 9.	Acid Rain Unit	t				
8. 9.	Acid Rain Unit CAIR Unit Package Unit: Manufacturer:	t	Model Number:			
8. 9. 10	Acid Rain Unit CAIR Unit Package Unit: Manufacturer: Generator Namepl	t ate Rating: MW	Model Number:			
8. 9. 10	Acid Rain Unit CAIR Unit Package Unit: Manufacturer: Generator Namepl Emissions Unit Co	ate Rating: MW	Model Number:			
8. 9. 10	Acid Rain Unit CAIR Unit Package Unit: Manufacturer: Generator Namepl Emissions Unit Co	ate Rating: MW	Model Number:			

EMISSIONS UNIT INFORMATION Section [29]

of

EU 052 Finish Mill & Air Heater

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

[36]

- 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 [29] of [36]

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.	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:					
	24 hours/day	7 days/week				
	52 weeks/year	7500* hours/year				
6.	Operating Capacity/Schedule Comment:					
Th un Ar	he maximum heat input rate represents the maximum rate of the hit. nnual capacity of Finish Mill is based on 240 tph and 7500 hr/yr	e hot gas generator is 1,800,000 tpy				
*N	Maximum operating time for the hot gas generator is 2,500 hr/yr					

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

	Emission Point Description and Type				
1.	Identification of Point on Plot Plan or		2. Emission Point Type Code:		
	Flow Diagram: Finish Mill		1		
3.	. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:				
	Baghouse ID 531.BF500				
4.	ID Numbers or Descriptio	ns of Emission Ur	nits with this Emissio	n Point in Common:	
5.	Discharge Type Code:	6. Stack Height		7. Exit Diameter:	
5.	Discharge Type Code: V	 Stack Height 207 feet 	::	7. Exit Diameter:6.5 feet	
5. 8.	Discharge Type Code: V Exit Temperature:	 Stack Height 207 feet Actual Volum 	:: metric Flow Rate:	 7. Exit Diameter: 6.5 feet 10. Water Vapor: 	
5. 8.	Discharge Type Code: V Exit Temperature: 246 °F	 6. Stack Height 207 feet 9. Actual Volum 118,800 acfm 	:: metric Flow Rate: n	 7. Exit Diameter: 6.5 feet 10. Water Vapor: 10 % 	
5. 8. 11.	Discharge Type Code: V Exit Temperature: 246 °F Maximum Dry Standard F	 6. Stack Height 207 feet 9. Actual Volun 118,800 acfm Flow Rate: 	:: metric Flow Rate: n 12. Nonstack Emiss	 7. Exit Diameter: 6.5 feet 10. Water Vapor: 10 % ion Point Height: 	
5. 8.	Discharge Type Code: V Exit Temperature: 246 °F Maximum Dry Standard F 80,000 dscfm	 6. Stack Height 207 feet 9. Actual Volut 118,800 acfn Yow Rate: 	:: metric Flow Rate: n 12. Nonstack Emiss feet	 7. Exit Diameter: 6.5 feet 10. Water Vapor: 10 % ion Point Height: 	
5. 8. 11.	Discharge Type Code: V Exit Temperature: 246 °F Maximum Dry Standard F 80,000 dscfm Emission Point UTM Coo	 6. Stack Height 207 feet 9. Actual Volut 118,800 acfn Flow Rate: rdinates 	:: metric Flow Rate: n 12. Nonstack Emiss feet 14. Emission Point	 7. Exit Diameter: 6.5 feet 10. Water Vapor: 10 % ion Point Height: Latitude/Longitude 	
5. 8. 11.	Discharge Type Code: V Exit Temperature: 246 °F Maximum Dry Standard F 80,000 dscfm Emission Point UTM Coo Zone: East (km):	 6. Stack Height 207 feet 9. Actual Volun 118,800 acfn Flow Rate: rdinates 	:: metric Flow Rate: n 12. Nonstack Emiss feet 14. Emission Point Latitude (DD/M	 7. Exit Diameter: 6.5 feet 10. Water Vapor: 10 % ion Point Height: Latitude/Longitude M/SS) 	

15. Emission Point Comment:

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.

The discharge rate is reduced from the 100,000 dscfm estimated for Permit 0530021-018-AC; thus reducing potential PM/PM10 emissions.

EMISSIONS UNIT INFORMATION Section [29]

of

EU 052 Finish Mill & Air Heater

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 3

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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 A 1,800,000 tp		nnual Rate: y	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8. Maximum % Ash:		9.	Million Btu per SCC Unit:	
10. An	. Segment Comment: Inual rate is based on the l	hourly rate	e and 7	'500 hr/yr.		

Segment Description and Rate: Segment 2 of 3

1.	1. Segment Description (Process/Fuel Type):					
Industrial Processes; In-Process Fuel Use; Distillate Oil; General						
2.	Source Classification Cod	e (S	CC):	3. SCC Units:		
	3-90-005-89			Thousand Gallons Burned		
4.	Maximum Hourly Rate: 0.30	5. Maximum Annual Rate: 750		Annual Rate:	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8.	Maximum	% Ash:	9.	Million Btu per SCC Unit:
	No Limit					147.1
10	Segment Comment:					
Ba	sed on 45 MMBtu/hr and	2,50	00 hr/yr. Ap	plies to the hot	gas g	generator unit.

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

Segment Description and Rate: Segment <u>3</u> of <u>3</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; In-Process Fuel Use; Liquified Petroleum Gas (LPG); General

2. Source Classification Code (SCC):		3. SCC Units:				
3-90-010-89		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						

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EMISSIONS UNIT INFORMATION

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EU 052 Finish Mill & Air Heater

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emi	tted 2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL
SO ₂			NS
NO _x			NS
VOC			NS
СО			NS

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:	2. Total Percent Efficiency of Control:		
PM			
3. Potential Emissions:	4. Synt	hetically Limited?	
6.86 lb/hour 25 .	6.86 lb/hour 25.7 tons/year		
5. Range of Estimated Fugitive Emissions (a	s applicable):		
to tons/year			
6. Emission Factor: 0.029 lb PM/ton FM feed		7. Emissions	
Reference: See below	0		
8.a. Baseline Actual Emissions (if required): 8.b. Baseline 24-month		Period:	
tons/year	tons/year From: To:		
9.a. Projected Actual Emissions (if required):	ing Period:		
tons/year 5 years 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.

POLLUTANT DETAIL INFORMATION Page [1] of [26] 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 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 _____ 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	n of Operating Method):		

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:	2. Total Percent Effici	ency of Control:		
PM_{10}				
3. Potential Emissions:	4. Synt	hetically Limited?		
4.80 lb/hour 18 .	0 tons/year	Yes X No		
5. Range of Estimated Fugitive Emissions (a	s applicable):			
tons/year				
6. Emission Factor: 0.020 lb PM10/ton of FM feed		7. Emissions		
		Method Code:		
Reference: See below		0		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	n Period:		
tons/year	То:			
9.a. Projected Actual Emissions (if required): 9.b. Projected Monitor		ing Period:		
tons/year 5 years 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.

POLLUTANT DETAIL INFORMATION Page [22] of [26] 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 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 _____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	Ib/nour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description	n of Operating Method):
	I C ,

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: SO ₂	2. Total Percent Efficiency of Control:			
3. Potential Emissions:2.1 lb/hour2.63	Potential Emissions: 4. Synth 2.1 lb/hour 2.63 tons/year			
5. Range of Estimated Fugitive Emissions (as tons/year	s applicable):			
 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):	8.b. Baseline 24-month	Period:		
tons/year	From:	Го:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:		
tons/year	5 years 1	0 years		
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions Comment:				
Represents emissions from the hot gas generator unit at 2500 hr/yr.				

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/hour2.63 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 _____ of _____

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

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: 4. Synth		netically Limited?			
5.40 lb/hour 6.8	tons/year	□ Y	es <u>x</u> No		
5. Range of Estimated Fugitive Emissions (as tons/year	applicable):				
6. Emission Factor: 18 lb/1,000 gal			7. Emissions		
			Method Code:		
Reference: AP-42 Table 1.5-1, Permit No. 053	0021-018-AC.		3		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:		
tons/year	From:]	To:		
9.a. Projected Actual Emissions (if required):	9.b. Projected	Monitori	ng Period:		
tons/year	5 year	rs 🗌 1	0 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.					

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/hour6.8 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 _____ 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):

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:	2. Total Percent Efficie	ency of Control:	
3. Potential Emissions: 1.5 lb/hour 1.9	tons/year 4. Syntl	netically Limited? Zes X No	
5. Range of Estimated Fugitive Emissions (as tons/year	s applicable):		
6. Emission Factor: 5.0 lb/1,000 gal		7. Emissions Method Code:	
Reference: AP-42 Table 1.5-1, Permit No. 053	30021-018-AC.	3	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:	
tons/year	From:	Го:	
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:	
tons/year	5 years 1	0 years	
10. Calculation of Emissions:			
Potential emissions based on No. 2 fuel at 0.3	0 thousand gallons per 1	hour and 2500 hr/vr.	
i otentiar emissions based on 140. 2 fuel at 0.50 thousand ganons per nour and 2500 m/yr.			
11. Potential, Fugitive, and Actual Emissions Comment:			
Represents emissions from the hot gas generator unit			
Acpresents emissions from the not Sus Scherator units			

EMISSIONS UNIT INFORMATION Section [29] of [36] [26]

EU 052 Finish Mill & Air Heater

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 1 of 1

2. Future Effective Date of Allowable		
Emissions:		
4. Equivalent Allowable Emissions:		
1.50 lb/hour 1.9 tons/year		
n of Operating Method):		
Based on AP-42 Table 1.5-1, Permit No. 0530021-018-AC and 2500 hr/yr.		

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):		

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 Effic	ency of Control:
3. Potential Emissions:	4. Synt	hetically Limited?
0.3 lb/hour 0. 4	tons/year	Yes X No
5. Range of Estimated Fugitive Emissions (as tons/year	applicable):	
6. Emission Factor: 1.0 lb/1,000 gal		7. Emissions
		Method Code:
Reference: AP-42 Table 1.5-1		3
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	n Period:
tons/year	From:	To:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitor	ing Period:
tons/year	5 years	10 years
10. Calculation of Emissions:		
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.		

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 _____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable	
OTHER	Emissions:	
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:	
0.30 lb/hr	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 _____ of _____

1. Basis for Allowable Em	issions Code:	2.	Future Effective Date o Emissions:	f Allowable
3. Allowable Emissions an	d Units:	4.	Equivalent Allowable E lb/hour	Emissions: tons/year
5. Method of Compliance:				
6. Allowable Emissions Comment (Description of Operating Method):				

EMISSIONS UNIT INFORMATION

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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.

<u>Visible Emissions Limitation</u>: Visible Emissions Limitation $\underline{1}$ of $\underline{2}$

1.	Visible Emissions Subtype:2. Basis for Allowable Opacity:		Opacity:
	VE10	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
Ar	nnual, EPA Method 9		
5.	Visible Emissions Comment:		
Re	equested by Applicant		

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>2</u> of <u>2</u>

1. Visible Emissions Subtype: VE00	2. Basis for Allowable Opacity: X Rule Other	
3. Allowable Opacity: Normal Conditions: 0 % Ex Maximum Period of Excess Opacity Allower	cceptional Conditions: % ed: min/hour	
4. Method of Compliance:Monthly, 1-minute EPA Method 22		
5. Visible Emissions Comment:		
Based on 40 CFR 63.1350(e).		

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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:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

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	I. EMI	ISSIONS 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) $\overline{\mathbf{X}}$ 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) Attached, Document ID: 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) $\overline{\mathbf{X}}$ 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) 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) Attached, Document ID: <u>NA</u>
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted Date: 6/30/10 and 10/8/2010 (PM)
	Test Date(s)/Pollutant(s) Tested: PM, NOx, CO, <u>VE</u>
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	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:

EMISSIONS UNIT INFORMATION

of

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Section [29]

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)):				
	Attached, Document ID: Not Applicable				
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-				
	212.500(4)(f), F.A.C.):				
	Attached, Document ID: Not Applicable				
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)				
	Attached, Document ID: Not Applicable				
Ad	Additional Requirements for Title V Air Operation Permit Applications				
1.	Identification of Applicable Requirements:				
	Attached. Document ID:2010-FCB-EU1-ITV1 (submitted 11/08/2010)				

2. Compliance Assurance Monitoring:
Attached, Document ID: <u>Refer comment</u> Not Applicable
3. Alternative Methods of Operation:
Attached, Document ID: _____ Not Applicable
4. Alternative Modes of Operation (Emissions Trading):

Attached, Document ID: X Not Applicable

Additional Requirements Comment

EU 052 Finish Mill & Air Heater is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.
EMISSIONS UNIT INFORMATION Section [30] of [36]

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 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 [30] of [36]

EU 054 Finish Mill Bucket Elevator

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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.						
	unregulated em	unit addressed in this Einissions unit.	nissions Unit Informati	on Section is an			
En	nissions Unit Descr	ription and Status					
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)				
	X This Emissions process or prod which has at le	Unit Information Section luction unit, or activity, ast one definable emission	on addresses, as a single which produces one or a on point (stack or vent)	e emissions unit, a single more air pollutants and			
	This Emissions of process or pr point (stack or	S Unit Information Section roduction units and active vent) but may also prod	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission			
	This Emissions more process o	Unit Information Section r production units and a	on addresses, as a single ctivities which produce	e emissions unit, one or fugitive emissions only.			
2.	Description of Emi	issions Unit Addressed i	n this Section:				
Sin Fin	ngle Emission Poin nish Mill Bucket El	t: levator					
3.	Emissions Unit Ide	entification Number: 05	4				
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit			
	Status Code:	Construction	Date: NA	Major Group			
	А	Date: NA		SIC Code: 32			
8.	Federal Program A	pplicability: (Check all	that apply)				
	Acid Rain Unit	t					
	CAIR Unit						
9.	Package Unit:						
	Manufacturer:		Model Number:				
10	Generator Namepla	ate Rating: MW					
	11. Emissions Unit	t Comment:					

of

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EU 054 Finish Mill Bucket Elevator

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

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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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATIONSection [30]of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 106 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 7,500 hours/year
6.	Operating Capacity/Schedule Comment:
ŀ	Annual rate based on 106 tph and 7500 hr/yr is 795,000tpy

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

Identification of Point on Plot Plan or		2. Emission Point	Гуре Code:			
Flow Diagram: FM Buck	Flow Diagram: FM Bucket Elevator					
 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 Volue 10,900 acfm	metric Flow Rate:	10. Water Vapor: 2 %			
11. Maximum Dry Standard F 6,984 dscfm	low Rate:	12. Nonstack Emission Point Height: feet				
13. Emission Point UTM CooZone:East (km):North (km)	rdinates	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS) Longitude (DD/MM/SS)				
North (km): Longitude (DD/MM/SS) 15. Emission Point Comment:						

of

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>1</u>

[36]

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:	5. Maximum Annual Rate:		6.	Estimated Annual Activity	
	106		795,000			Factor:
7.	Maximum % Sulfur:	8.	Maximum	% Ash:	9.	Million Btu per SCC Unit:
10	0 . 0					

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	5. Maximum Annual Rate:		Estimated Annual Activity Factor:	
7. Maximum % Sulfur:	8. Maximum % Ash:		9.	Million Btu per SCC Unit:	
10. Segment Comment:					

Section [30] of [36]

EU 054 Finish Mill Bucket Elevator

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL

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 Effic	eiency of Control:				
3. Potential Emissions:	4. Syn	thetically Limited?				
0.60 lb/hour 2.3	tons/year	Yes X No				
5. Range of Estimated Fugitive Emissions (as applicable): tons/year						
6. Emission Factor: 0.01 gr/acf		7. Emissions				
		Method Code:				
Reference: Permit No.0530021-018-AC, BAC	Т	0				
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-mon	h Period:				
tons/year	From:	To:				
9.a. Projected Actual Emissions (if required):	9.b. Projected Monito	ring Period:				
tons/year	5 years 10 years					
10. Calculation of Emissions:						
11. Potential, Fugitive, and Actual Emissions Co	omment:					

POLLUTANT DETAIL INFORMATION Page [1] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable				
OTHER	Emissions:				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:				
0.01 gr/acf	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					

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

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:	4. Synth	netically Limited?			
0.42 lb/hour 1.0	tons/year Y	es X No			
5. Range of Estimated Fugitive Emissions (as tons/year	applicable):				
6. Emission Factor: 0.007 gr/acf		7. Emissions			
		Method Code:			
Reference: Permit No.0530021-018-AC, BAC	Т	0			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:			
tons/year	From: To:				
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:				
tons/year	5 years 10 years				
10. Calculation of Emissions:					
11. Potential, Fugitive, and Actual Emissions Co	omment:				

POLLUTANT DETAIL INFORMATIONPage [22]of [22]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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

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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:	2. Basis for Allowable	Opacity:
	VE05	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	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-A	C, BACT

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE00	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 0% Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	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)		

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:	Rule 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:	Rule 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 [30] [36]

of

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)
	X Attached, Document ID: 2010-FCB-EU54-I1 Submitted 11/08/2010
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)
	Attached, Document ID:
3	Detailed Description of Control Equipment: (Paguired for all parmit applications, avaant Title
5.	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)
	Attached Document ID: 010-FCB-O&M Submitted 11/08/2010
	A Attached, Document ID: 010-FCB-OCAN Submitted 11/00/2010
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)
	Attached, Document ID: 010-FCB-O&M Submitted 11/08/2010
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)
	Attached, Document ID: 010-FCB-O&M Submitted 11/08/2010
6.	Compliance Demonstration Reports/Records:
0.	Attached. Document ID:
	Test Date(s)/Dellutent(s) Tested:
	Test Date(s)/Pollutant(s) Tested:
	V Draviously Submitted Data: 1/6/2012
	$\underline{\mathbf{A}}$ Fleviously Sublimited, Date. $\underline{\mathbf{I}}_{10}/\underline{2012}$
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted Date (if Imerum):
	Test Date(s)/Pollutant(s) Tested:
	Not Applicable
	Note: For EESOD applications all required compliance demonstration records/required to the
	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: X Not Applicable

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)):
	Attached, Document ID: X Not Applicable
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):
	Attached, Document ID: X Not Applicable
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)
	Attached, Document ID: X Not Applicable
Ac	lditional Requirements for Title V Air Operation Permit Applications
1.	Identification of Applicable Requirements:

1.	Attached, Document ID: <u>2010-FCB-EU1-ITV1 (submitted 11/08/2010)</u>
2.	Compliance Assurance Monitoring: Attached, Document ID: <u>Refer comment</u> Not Applicable
3.	Alternative Methods of Operation: Attached, Document ID: Not Applicable
4.	Alternative Modes of Operation (Emissions Trading): Attached, Document ID: X Not Applicable

Additional Requirements Comment

EU 054 Finish Mill Bucket Elevator is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

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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 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. (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 INFORMATIONSection [31]of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

1. Regulated or renewa permit or	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 energy of th	The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.				
The enunreg	The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.				
Emissions U	nit Desci	ription and Status			
1. Type of E	missions	Unit Addressed in this	Section: (Check one)		
This E	Emission	s Unit Information Sect	ion addresses, as a single	e emissions unit, a single	
proces	s or proc	luction unit, or activity,	which produces one or	more air pollutants and	
which	has at le	ast one definable emiss	ion point (stack or vent)		
	of proce	sions Unit Information S	section addresses, as a sind activities which has a	ingle emissions unit, a	
emissi	on proce	(stack or vent) but may	also produce fugitive er	missions.	
☐ This E	Emission	s Unit Information Sect	ion addresses. as a single	e emissions unit. one or	
more	process o	or production units and a	activities which produce	fugitive emissions only.	
2. Descriptio	on of Em	issions Unit Addressed	in this Section:		
Two Emissio	on Point	s:			
Finish Mill	Cement	and Rejects Transport	ţ		
3. Emissions	s Unit Ide	entification Number: 0	57		
4. Emissions	s Unit	5. Commence	6. Initial Startup	7. Emissions Unit	
Status Co	de:	Construction	Date: NA	Major Group	
Δ		Date: NA		32	
8. Federal P	rogram A	pplicability: (Check al	l that apply)		
	Rain Uni	t			
	Unit				
9. Package U	Jnit:				
Manufact	urer:		Model Number:		
10. Generator	Namepl	ate Rating: MW			
12. Emiss	ions Uni	t Comment:			

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EU 057 Finish Mill Cement Transport

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

[36]

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

of

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [31] [36] of

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				

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	7500
Reject Trans -531.BF290	106	795,000	24	7	52	7500

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1.	Identification o	f Point on Plo	ot Plan or		2. E	mission	Point T	ype Code:	
	Flow Diagram:	Flow Diagram: FM Cement Transport			3				
3.	Descriptions of Baghouse ID Baghouse ID	Emission Pc 531.BF400 - 531.BF290 -	vints Compr Cement Rejects	rising	this E	mission	s Unit f	or VE Trac	king:
4.	ID Numbers or	Descriptions	of Emissio	on Un	its wit	h this Ei	mission	Point in Co	ommon:
5.	5. Discharge Type Code: 6. Stack Height feet			eight:	: 7. Exit Diameter: feet				
8.	8. Exit Temperature: 9. Actual Volum F acfm				netric l	Flow Ra	te:	10. Water Vapor: %	
11.	Maximum Dry dscfm	Standard Flo	w Rate:		12. Nonstack Emission Point Height: feet				
13.	Emission Point Zone:	UTM Coord East (km):	inates		14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)				
]	North (km):			Longitude (DD/MM/SS)				
15.	Emission Point	Comment:							
	Baghouse	Discharge	Height	Dian	Parai neter	neter Temp		Flow	Moist
	Lagnouse	Code	(ft)	(f	ft)	(ºF)	(acfm)	(dscfm)	(%)
		1		1	00	266	2.800	1996	2.0
	531.BF400	н	64		~~		- 4	0400	

of

Section [31]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>2</u>

[36]

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Other Not Classified (Cement Transfer)

 Source Classification Code (SCC): 3-05-006-99 		3. SCC Units:	luco	d		
	5-05-000-33			10115 1 100	uce	u
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		6.	Estimated Annual Activity	
	240	1,800,000			Factor:	
7.	Maximum % Sulfur:	8. Maximum % Ash:		9.	Million Btu per SCC Unit:	
10	. Segment Comment:					
	Applies to Finish Mill Ce	mei	nt Transpor	t		

Based on Permit Nos.0530021-018-AC and annual rate based on the hourly rate and 7500 hr/yr.

<u>Segment Description and Rate:</u> Segment <u>2</u> of <u>2</u>

1.	Segment Description (Proc Industrial Processes; Min Not Classified (Cement 7	cess/ nera Frai	/Fuel Type): Il Products; nsfer)	Cement Manuf	[°] actu	uring (Dry Process); Other
2.	Source Classification Code	e (S0	CC):	3. SCC Units		
	3-05-006-99			Tons Proc	luce	d
4.	Maximum Hourly Rate: 106	5.	Maximum <i>A</i> 795,000	Annual Rate:	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8.	Maximum	% Ash:	9.	Million Btu per SCC Unit:
10	Segment Comment: Applies to Finish Mill Re 0530021-018-AC with an	ejec inua	ts Transpor al rate based	t. Based on Per on the hourly	mit rate	and 7500 hr/yr.

EMISSIONS UNIT INFORMATIONSection [31]of [36]

EU 057 Finish Mill Cement Transport

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL

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 Efficie	cent Efficiency of Control:			
3. Potential Emissions:	4. Synth	netically Limited?			
0.44 lb/hour 1.7	tons/year Y	es X No			
5. Range of Estimated Fugitive Emissions (as tons/year	s applicable):				
6. Emission Factor: 0.01 gr/acf (each baghou	lse)	7. Emissions			
		Method Code:			
Reference: Permit No.0530021-018-AC, BAC	T	U			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:			
tons/year	From: To:				
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:			
tons/year	5 years 1	0 years			
10. Calculation of Emissions:					
11. Potential, Fugitive, and Actual Emissions Comment:					
Represents combined emissions from bot	h baghouses.				

POLLUTANT DETAIL INFORMATION Page [1] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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

<u>Allowable Emissions</u> 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):

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

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 Efficie	ent Efficiency of Control:		
3. Potential Emissions:	4. Synth	netically Limited?		
0.31 lb/hour 1.2	2 tons/year Y	es X No		
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: 0.007 gr/acf		7. Emissions		
		Method Code:		
Reference: Permit No.0530021-018-AC, BAC	Т	0		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:		
tons/year	From: 7	Го:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:		
tons/year	□ 5 years □ 1	0 years		
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions C	omment:			
Represents combined emissions from both baghouses.				

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable		
	OTHER		Emissions:		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:		
	0.007 gr/acf		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, BA	СТ	,		
	Represents both baghouses combined.				

<u>Allowable Emissions</u> 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):

<u>Allowable Emissions</u> 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):

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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:	2. Basis for Allowable	Opacity:
	VE05	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	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-A	C, BACT

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE00	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 0% Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance: Monthly, 1-minut	te EPA Method 22	
_			
5.	Visible Emissions Comment: Based on 40	CFR 63.1350(a)(4)(1)	

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:	Rule 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:	Rule 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 [31] of [36]

EU 057 Finish Mill Cement 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)
	X Attached, Document ID: 2010-FCB-EU57-I1 Submitted 11/08/2010
2	Fuel Analysis or Specification: (Paguirad for all parmit applications, except Title V air
∠.	ruer Analysis of Specification. (Required for an permit applications, except fille v an
	the previous five years on drawld not be altered as a result of the revision being cought)
	Attacked Decomposition of the antered as a result of the revision being sought)
	Attached, Document ID: 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)
	X Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
Δ	Procedures for Startup and Shutdown: (Required for all operation permit applications, except
т.	Title V air operation permit revision applications if this information was submitted to the
	department within the provides five years and would not be altered as a result of the revision being
	sought)
	Sought)
	Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
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)
	Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
6	Compliance Demonstration Reports/Records:
	Attached. Document ID:
	Test Date(s)/Dellutent(s) Tested:
	Test Date(s)/Pollutant(s) Tested:
	V Draviously Submitted Data 1/6/2012
	A Previously Submitted, Date: 1/0/2012
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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:
´`	\square Attached Document ID: \blacksquare \blacksquare Not Applicable

EMISSIONS UNIT INFORMATION Section [31] of [36]

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)):			
	Attached, Document ID:	X Not Applicable		
2.	Good Engineering Practice Stack Height Ana	llysis (Rules 62-212.400(4)(d) and 62-		
	212.500(4)(f), F.A.C.):			
	Attached, Document ID:	X Not Applicable		
3.	Description of Stack Sampling Facilities: (R	equired for proposed new stack sampling facilities		
	only)			
	Attached, Document ID:	X Not Applicable		
Ad	lditional Requirements for Title V Air Ope	ration Permit Applications		
1	Identification of Applicable Requirements.			

1.	Attached, Document ID: <u>2010-FCB-EU1-ITV1 (submitted 11/08/2010)</u>
2.	Compliance Assurance Monitoring:
	X Attached, Document ID: <u>Refer comment</u> Not Applicable
3.	Alternative Methods of Operation:
	Attached, Document ID: X Not Applicable
4.	Alternative Modes of Operation (Emissions Trading):
	Attached, Document ID: X Not Applicable

Additional Requirements Comment

EU 057 Finish Mill Cement Transport is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

Section [32] of [36]

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 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. (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.

Section [32] of [36]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classifica	ation
---	-------

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 emissions unit The emissions 	 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 en	nissions unit.								
Emissions Unit Desc.	<u>ription and Status</u>	Section: (Check one)							
This Emission process or pro- which has at le	s Unit Information Section duction unit, or activity, east one definable emiss sions Unit Information S	ion addresses, as a single which produces one or a ion point (stack or vent) Section addresses, as a si	e emissions unit, a single more air pollutants and ngle emissions unit, a						
group of proce emission point	ess or production units a (stack or vent) but may	nd activities which has a also produce fugitive en	it least one definable missions.						
This Emission more process of	s Unit Information Section production units and a	ion addresses, as a single activities which produce	e emissions unit, one or fugitive emissions only.						
2. Description of Em Four Emission Point Cement Silo 5/Cement 5 Loadout Spout S	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 Id	entification Number: 05	58							
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 A	Applicability: (Check al	l that apply)	1						
☐ Acid Rain Uni	Acid Rain Unit								
9. Package Unit: Manufacturer:		Model Number:							
10. Generator Namep	ate Rating: MW								
13. Emissions Uni	t Comment:								

of

Section [32]

EU 058 Cement Silo 5 Loading Bin

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

[36]

- 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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	1. Maximum Process or Throughput Rate:									
2.	2. Maximum Production Rate:									
3.	Maximum Heat Input Rate: m	nillion B	tu/hr							
4.	Maximum Incineration Rate:	pounds/	hr							
		tons/day	y							
5.	Requested Maximum Operatir	ng Scheo	lule:							
		24 h	ours/day		7 0	days/weel	K			
		52 w	/eeks/year		8,	760 hours	/year			
<i>(</i>	6. Operating Capacity/Schedule Comment:									
6.	Operating Capacity/Schedule	Comme	nt.							
6.	Baghouse	M Throu	aximum ughput Rate		Operating S	chedule				
6.	Baghouse	M Throu (tph)	aximum ughput Rate (tpy)	(hr/day)	Operating S (day/wk)	chedule (wk/yr)	(hr/yr)			
6.	Baghouse Cement Silo 5 -612.BF005	M Throu (tph) 240	aximum ughput Rate (tpy) 2,102,400	(hr/day) 24	Operating S (day/wk) 7	chedule (wk/yr) 52	(hr/yr) 8760			
6.	Baghouse Cement Silo 5 -612.BF005 Loading Bin -612.BF620	M Throu (tph) 240 625	aximum Jghput Rate (tpy) 2,102,400 5,475,000	(hr/day) 24 24	Operating S (day/wk) 7 7	chedule (wk/yr) 52 52	(hr/yr) 8760 8760			
6.	Baghouse Cement Silo 5 -612.BF005 Loading Bin -612.BF620 Loadout Spout N-622.LS140	M Throu (tph) 240 625 625	aximum Jghput Rate (tpy) 2,102,400 5,475,000 5,475,000	(hr/day) 24 24 24 24	Operating S (day/wk) 7 7 7 7	chedule (wk/yr) 52 52 52	(hr/yr) 8760 8760 8760			
0.	Baghouse Cement Silo 5 -612.BF005 Loading Bin -612.BF620 Loadout Spout N-622.LS140 Loadout Spout S-622.LS160	M Throu (tph) 240 625 625 625	aximum Jghput Rate (tpy) 2,102,400 5,475,000 5,475,000 5,475,000	(hr/day) 24 24 24 24 24 24	Operating S (day/wk) 7 7 7 7 7 7	chedule (wk/yr) 52 52 52 52 52	(hr/yr) 8760 8760 8760 8760			

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

Emission Point Description and Type

3. I	Descriptions of	Emission	Points Compris	ng this E	Emission	s Unit	for VE Track	king:
]	Baghouse ID (Baghouse ID (512.BF005 512 BF620	– Silo 5 Loading Bir					
]	Baghouse ID (522.LS140	– Loading Spo	out N				
]	Baghouse ID 6	522.LS160	- Loading Spo	out S				
4. I	D Numbers or	Description	ns of Emission	Units wit	h this Ei	nissior	n Point in Co	mmon:
		1						
5. I	Discharge Type	Code:	6. Stack Heig	t:			7. Exit Dia	ameter:
	0 91		feet	, ,			feet	
8. E	Exit Temperatu	re:	9. Actual Vo	lumetric	Flow Ra	te:	10. Water V	/apor:
0	F		acfm				%	
11. N	Maximum Dry	Standard F	low Rate:	12. N	onstack	Emissi	ion Point Hei	ight:
	dscfm			1	teet			
13. E	Emission Point	UTM Coo	rdinates	14. E	mission	Point I	Latitude/Long	gitude
7	Zone: I	East (km):		La	atitude (DD/M	M/SS)	
	North (km):				ongitude	(DD/N	MM/SS)	
	ſ	()						
15. E	۲ Emission Point	Comment:						
15. E	T Emission Point	Comment:					,	
15. E	Emission Point	Comment:		Bara	motor			

	Bagnoadd	Disonarge	neight	Diameter	Tomp	1101		moist
		Code	(ft)	(ft)	(ºF)	(acfm)	(dscfm)	(%)
ſ	612.BF005	Н	210	1.53	266	8,300	5916	2.0
	612.BF620	н	28	1.29	266	4,300	3065	2.0
	622.LS140	н	28	0.38	266	1,500	1069	2.0
	622.LS160	Н	28	0.38	266	1,500	1069	2.0

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment <u>1</u> of <u>2</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Cement Silo No. 5

2.	Source Classification Code	3. SCC Units:			
	3-05-006-18	Tons Cement Produced			
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		6.	Estimated Annual Activity
	240	2,102,400			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. SCC Units:					
	3-05-006-18		Tons Cement Produced					
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		6. Estimated Annual Activity				
	625	5,475,000		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, Applied rate based on the								
hourly rate and 8.760 hr/vr.								
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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL

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

 Pollutant Emitted: PM 	2. Total Percent Efficie	ency of Control:
3. Potential Emissions:	4. Synth	netically Limited?
0.95 lb/hour 4.	2 tons/year Y	es X No
5. Range of Estimated Fugitive Emissions (a tons/year	s applicable):	
6. Emission Factor: 0.01 gr/acf (each baghou	1se)	7. Emissions
		Method Code:
Reference: Permit No.0530021-018-AC, BAC	T	0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:
tons/year	From:	Го:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:
tons/year	5 years 1	0 years
10. Calculation of Emissions:	1	
Annual emissions based on 8760 hr/yr.		
11. Potential, Fugitive, and Actual Emissions C Represents combined emissions from all 4	omment: 4 baghouses.	

POLLUTANT DETAIL INFORMATION Page [1] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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

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 _____ 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):

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 Effic	iency of Control:	
3. Potential Emissions:	4. Synt	hetically Limited?	
0.65 lb/hour 2.	tons/year	Yes X No	
5. Range of Estimated Fugitive Emissions (as tons/year	s applicable):		
6. Emission Factor: 0.007 gr/acf (each bagho	ouse)	7. Emissions	
		Method Code:	
Reference: Permit No.0530021-018-AC, BAC	Т	0	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-mont	h Period:	
tons/year	From:	То:	
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitor	ring Period:	
tons/year	5 years	5 years 10 years	
10. Calculation of Emissions:			
Annual emissions based on 8760 hr/yr.			
11. Potential, Fugitive, and Actual Emissions C Represents combined emissions from all 4	omment: I baghouses.		

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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable
	OTHER		Emissions:
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:
	0.007 gr/acf		0.67 lb/hour 2.9 tons/year
5.	Method of Compliance:		
	Annual compliance test using EPA Metho	od 9	
6.	6. Allowable Emissions Comment (Description of Operating Method):		
	Based on the permit 0530021-018-AC, BACT.		
	Represents all four baghouses.		
1			

Allowable Emissions _____ of _____

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

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):

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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:	2. Basis for Allowable	Opacity:
	VE05	X Rule	☐ Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	EPA Method 9 annually		
	Visible Emissions Comment:		
	Based on Pule 62 207 $620(4)$ F A C and	Downit 0530021 018 AC	' BACT
	Daseu on Kule 02-297.020(4) F.A.C. anu	rennit 0550021-010-AC	, DACI.
L			

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE00	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 0% Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance: Monthly 1-minut	e EPA Method 22	
5	Wiells Englacione Community Deceder 40	(1250(-)(4)(3))	
э.	visible Emissions Comment: Based on 40	UFR 03.1350(a)(4)(1)	

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:	Rule 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:	Rule Other
4.	Monitor Information Manufacturer: Model Number	Social Number
	Model Nullider.	Serial Inumber.
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION Section [32] of [36]

EU 058 Cement Silo 5 Loading Bin

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)
	X Attached, Document ID: 2010-FCB-EU58-I1 Submitted 11/08/2010
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)
	Attached, Document ID:
3	Detailed Description of Control Equipment: (Required for all permit applications, except Title
5.	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)
	Attached Document ID: 2010-FCB-O&M Submitted 11/08/2010
4	A Midelied, Document ID. 2010-1 CD-OCHT Subinited 11/00/2010
4.	Procedures for Startup and Shutdown: (Required for all operation permit applications, except
	I the value 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) \Box Attach to 2010 ECD O SM S L \Box the 1.11/09/2010
	Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
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)
	Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
6.	Compliance Demonstration Reports/Records:
	Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Test Date(s)/Tondant(s) Tested.
	X Previously Submitted, Date: <u>1/6/2012</u>
	Test Date(s)/Pollutant(s) Tested: VE
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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: X Not Applicable

EMISSIONS UNIT INFORMATION Section [32] of [36]

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)):						
	Attached, Document ID:	X Not Applicable					
2.	Good Engineering Practice Stack Height Ana	alysis (Rules 62-212.400(4)(d) and 62-					
	212.500(4)(f), F.A.C.):						
	Attached, Document ID:	X Not Applicable					
3.	Description of Stack Sampling Facilities: (R	equired for proposed new stack sampling facilities					
	only)						
	Attached, Document ID:	X Not Applicable					
Ad	Additional Requirements for Title V Air Operation Permit Applications						
1	Identification of Applicable Requirements:						

1.	Identification of Applicable Requirements:
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)
2.	Compliance Assurance Monitoring:
	X Attached, Document ID: <u>Refer comment</u> Not Applicable
3.	Alternative Methods of Operation:
	Attached, Document ID: X Not Applicable
4.	Alternative Modes of Operation (Emissions Trading):
	Attached, Document ID: X Not Applicable

Additional Requirements Comment

EU 0058 Cement Silo 5 Loading Bin is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

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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 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. (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.

EU 059 Multi Cell Cement Silo

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A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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 									
unregulat	ed emissions unit.								
Emissions Unit	Description and Status		1						
1. Type of Emis	ssions Unit Addressed in this	Section: (Check one)							
This Emi process o which ha	ssions Unit Information Secti r production unit, or activity, s at least one definable emissi	on addresses, as a single which produces one or a on point (stack or vent)	e emissions unit, a single more air pollutants and						
x This group of emission	Emissions Unit Information S process or production units ar point (stack or vent) but may	ection addresses, as a si nd activities which has a also produce fugitive er	ngle emissions unit, a t least one definable nissions.						
This Emi more pro	ssions Unit Information Secti cess or production units and a	on addresses, as a single activities which produce	e emissions unit, one or fugitive emissions only.						
2. Description of	of Emissions Unit Addressed	in this Section:							
Four Emission	Points: pent Silo/Multi Cell Cement	Silo Allevistor/Multi (Cell Loodout						
Transport/Mu	lti Cell Loadout Spout								
3. Emissions U	nit Identification Number: 05	59							
4. Emissions U	nit 5. Commence	6. Initial Startup	7. Emissions Unit						
Status Code:	Construction	Date: NA	Major Group						
Α	Date: NA		SIC Code: 32						
8 Federal Prog	ram Applicability: (Check all	that apply)							
\Box Acid Rai	n Unit	(dia appig)							
	iit								
9. Package Unit									
Manufacture	r:	Model Number:							
10. Generator Na	ameplate Rating: MW								
14. Emission	s Unit Comment:								

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Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

- 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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [33] of [36]

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.	5. Requested Maximum Operating Schedule:						
	24 hours/day 7 days/week						
	52 weeks/year	8,760 hours/year					
-							

6. Operating Capacity/Schedule Comment:

Maximum Throughput Rate		Operating Schedule					
(tph)	(tpy)	(hr/day)	(day/wk)	(wk/yr)	(hr/yr)		
240	2,102,400	24	7	52	8760		
240	2,102,400	24	7	52	8760		
625	5,475,000	24	7	52	8760		
625	625,000	24	7	52	1000		
	M Throu (tph) 240 240 625 625	Maximum Throughput Rate (tph) (tpy) 240 2,102,400 240 2,102,400 625 5,475,000 625 625,000	Maximum Throughput Rate (tph) (tpy) (hr/day) 240 2,102,400 24 240 2,102,400 24 625 5,475,000 24 625 625,000 24	Maximum Operating S Throughput Rate (tph) (tph) (tpy) (hr/day) (day/wk) 240 2,102,400 24 7 240 2,102,400 24 7 625 5,475,000 24 7 625 625,000 24 7	Maximum Throughput Rate Operating Schedule (tph) (tpy) (hr/day) (day/wk) (wk/yr) 240 2,102,400 24 7 52 240 2,102,400 24 7 52 625 5,475,000 24 7 52 625 625,000 24 7 52		

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1.	1. Identification of Point on Plot Plan or					2. Emission Point Type Code:				
	Flow Diagram: Multi-Cell Loadout				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 Emissi	on Ur	nits wit	h this E	mission	Point in Co	ommon:	
5.	Discharge Type	e Code: 6.	Stack H	Ieight	t: 7. Exit Diameter: feet				ameter:	
8.	Exit Temperatu °F	ire: 9.	Actual acfm	Voluı	metric Flow Rate: 10. Water Vapor: %				√apor:	
11.	. Maximum Dry dscfm	Standard Flow	w Rate:		12. N	onstack feet	Emissio	n Point He	ight:	
13.	Emission Point Zone:	UTM Coordi East (km):	nates		14. E	mission atitude (Point La DD/MM	titude/Lon [/SS)	gitude	
	15 5 3 5	North (km):			L	ongitude	e (DD/M	M/33)		
	15. Emission Po		t:		Deres					
	Baghouse	Discharge	Height	Dia	Parai meter	Temp	F	low	Moist	
		Code	(ft)	(ft)	(°F)	(acfm)	(dscfm)	(%)	
	611.BF005	н	208	1	.33	266	2,200	1568	2.0	
	611.BF045	H	210	1	.37	266	7,500	5345	2.0	
	611.BF610		38	1	.42 29	266	1,600	1140	2.0	
	011.13/00		29	U	.30	200	1,500	1009	2.0	
1										

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 4

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1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Cement Silos – Multi-cell Silo

2.	Source Classification Code 3-05-006-18	e (SCC):	3. SCC Units: Tons Cement Produced		
4.	Maximum Hourly Rate: 240	5. Maximum 2,102,400	Annual Rate:	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

 Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process);Cement Silos – Alleviator

2.	Source Classification Code	3. SCC Units:			
	3-05-006-18		Tons Cement Produced		
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity
	240	2,102,400			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.

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D. SEGMENT (PROCESS/FUEL) INFORMATION

<u>Segment Description and Rate:</u> Segment <u>3</u> of <u>4</u>

1.	. Segment Description (Process/Fuel Type):							
	Industrial Processes; Mineral Products; Cement Manufacturing (Dry							
Pr	Process);Cement Silos – Load-out Transport							
			-					
2.	Source Classification Code	e (SC	CC):	3. SCC Units:				
	3-05-006-18			Tons Cem	ent	Produced		
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity		
	625		5,475,000			Factor:		
7.	Maximum % Sulfur:	8.	Maximum 9	% Ash:	9.	Million Btu per SCC Unit:		
						-		
10	Segment Comment:							
	Applies to Multi-Cell Lo	ad-c	out Transpo	rt with annual	rate	based on the hourly rate		
	and 8.760 hr/vr.							

<u>Segment Description and Rate:</u> Segment <u>4</u> of <u>4</u>

1.	Segment Description (Process/Fuel Type):							
	Industrial Processes; Mineral Products; Cement Manufacturing (Dry							
	Process);Cement Silos – Silo Load-out							
				1				
2.	Source Classification Cod	e (So	CC):	3. SCC Units:				
	3-05-006-18			Tons Cem	ent	Produced		
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity		
	625		625,000			Factor:		
7.	Maximum % Sulfur:	8.	Maximum 9	% Ash:	9.	Million Btu per SCC Unit:		
						Ĩ		
10	Segment Comment:							
10	Applies to Multi-Cell Si	lo La	nad-out with	n annual rate ba	ased	on the hourly rate and		
	1000 by/yr							
	1000 m/yr.							

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EU 059 Multi Cell Cement Silo

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL

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 Efficie	ency of Control:
3. Potential Emissions:	4. Synth	netically Limited?
0.78 lb/hour 3. 4	tons/year Y	es X No
5. Range of Estimated Fugitive Emissions (as tons/year	s applicable):	
6. Emission Factor: 0.01 gr/acf (each baghou	ise)	7. Emissions
		Method Code:
Reference: Permit No.0530021-018-AC, BAC	T	0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:
tons/year	From:	Го:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:
tons/year	5 years 1	0 years
10. Calculation of Emissions:		
11. Potential, Fugitive, and Actual Emissions Comment:		
Represents combined emissions from all 4 baghouses.		

POLLUTANT DETAIL INFORMATION Page [1] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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

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 _____ 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)	on of Operating Method):

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 Efficie	ency of Control:
3. Potential Emissions:	4. Synth	netically Limited?
0.54 lb/hour 2. 4	tons/year Y	es X No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):	
6. Emission Factor: 0.007 gr/acf (each bagho	ouse)	7. Emissions
		Method Code:
Reference: Permit No.0530021-018-AC, BAC	T	0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:
tons/year	From:	Го:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:
tons/year	5 years 1	0 years
10. Calculation of Emissions:		
11. Potential, Fugitive, and Actual Emissions Comment:		
Represents combined emissions from all 4	l baghouses.	

POLLUTANT DETAIL INFORMATIONPage [22]of [22]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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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

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 _____ 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)	on of Operating Method):

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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:	2. Basis for Allowable	Opacity:
	VE05	X Rule	☐ Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	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:	2. Basis for Allowable	Opacity:
	VE00	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 0% Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance: Monthly, 1-minut	te EPA Method 22 test	
5	Visible Emissions Comments Based on 40	CED (2.1250(a)(4)(5)	
5.	VISIOLE ETHISSIONS COMMENT. Based on 40	CFK 03.1330(a)(4)(1)	

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:	Rule 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:	Rule
-		
4.	Monitor Information	
	Manufacturer:	
	Model Number:	Serial Number:
5	Lestallation Dates	C Deufermanne Currification Test Deter
э.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

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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) $\overline{\mathbf{X}}$ Attached, Document ID: 2010-FCB-EU59-I1 Submitted 11/08/2012
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) Attached, Document ID: 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) $\overline{\mathbf{X}}$ Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2012</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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2012</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) Attached, Document ID: <u>2010-FCB-O&M Submitted 11/08/2012</u>
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: 1/6/2012 Test Date(s)/Pollutant(s) Tested: VE
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	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: X Not Applicable

EMISSIONS UNIT INFORMATION Section [33] of [36]

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)):		
	Attached, Document ID: X Not Applicable		
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-		
	212.500(4)(f), F.A.C.):		
	Attached, Document ID: X Not Applicable		
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)		
	Attached, Document ID: X Not Applicable		
Ad	Iditional Requirements for Title V Air Operation Permit Applications		
1.	Identification of Applicable Requirements:		

1.	Identification of Applicable Requirements:
	Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)
2.	Compliance Assurance Monitoring:
	X Attached, Document ID: <u>Refer comment</u> Not Applicable
3.	Alternative Methods of Operation:
	Attached, Document ID: X Not Applicable
4.	Alternative Modes of Operation (Emissions Trading):
	Attached, Document ID: X Not Applicable

Additional Requirements Comment

EU 059 Multi Cell Cement Silo is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.

Section [36] of [36]

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 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. (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.

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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.			
	unregulated em	hissions unit.		
Er	nissions Unit Descr	iption and Status		
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)	
	X This Emissions process or proc which has at le	Unit Information Section luction unit, or activity, ast one definable emission	on addresses, as a single which produces one or a on point (stack or vent)	e emissions unit, a single more air pollutants and
	This Emissions of process or p point (stack or	S Unit Information Section roduction units and active vent) but may also produced	on addresses, as a single vities which has at least uce fugitive emissions.	e emissions unit, a group one definable emission
	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.			e emissions unit, one or fugitive emissions only.
2.	Description of Em	issions Unit Addressed i	n this Section:	
	Single Emission P Coal Mill	o int :		
3.	Emissions Unit Ide	entification Number: 06	0	
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit
	Status Code:	Construction	Date: NA	Major Group
	Α	Date: NA		32
8.	Federal Program A	pplicability: (Check all	that apply)	
	Acid Rain Unit	t t		
	CAIR Unit			
9.	Package Unit:			
	Manufacturer:		Model Number:	
10	10. Generator Nameplate Rating: MW			
	16. Emissions Uni	t Comment:		

EMISSIONS UNIT INFORMATION Section [36] of [36]

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

- 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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATIONSection [36] of[36]

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 T	PY 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:	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

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

EMISSIONS UNIT INFORMATION Section [36] of [36]

D. SEGMENT (PROCESS/FUEL) INFORMATION

<u>Segment Description and Rate:</u> Segment <u>1</u> of <u>1</u>

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	e (SCC):	3. SCC Units:	•	
3-05-006-21		Tons Proc	cessed (Coal or Petcoke)	
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity	
20	175,200		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 (Pro	cess/Fuel Type):			
2. Source Classification Cod	e (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 [36] of [36]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL

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 Efficie	ency of Control:			
3. Potential Emissions:	4. Synth	netically Limited?			
1.96 lb/hour 8.0	6 tons/year Y	es X No			
5. Range of Estimated Fugitive Emissions (as tons/year	5. Range of Estimated Fugitive Emissions (as applicable): tons/year				
6. Emission Factor: 0.01 gr/acf		7. Emissions			
		Method Code:			
Reference: Permit No.0530021-018-AC, BAC	Т	0			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:			
tons/year	From:	Го:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:			
tons/year	5 years 1	0 years			
10. Calculation of Emissions:					
11. Potential, Fugitive, and Actual Emissions Comment:					

POLLUTANT DETAIL INFORMATION Page [1] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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

Allowable Emissions _____ of _____

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

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):

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:	4. Synthetically Limited?				
1.37 lb/hour 6.	tons/year Yes X No				
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year					
6. Emission Factor: 0.007 gr/acf	7. Emissions				
	Method Code:				
Reference: Permit No.0530021-018-AC, BAC	T 0				
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:				
tons/year	From: To:				
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:				
tons/year	\Box 5 years \Box 10 years				
10. Calculation of Emissions:					
11. Potential, Fugitive, and Actual Emissions Comment:					

POLLUTANT DETAIL INFORMATIONPage [22] of [22]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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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/hour6.0 tons/year		
. Method of Compliance: Compliance determined in accordance with Kiln Stack requirements.			
 Allowable Emissions Comment (Description of Operating Method): Based on the permit 0530021-018-AC, BACT 			

Allowable Emissions _____ of _____

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

1. Basis for Allowable Emissions	Code: 2.	Future Effective Da Emissions:	ate of Allowable
3. Allowable Emissions and Units	: 4.	Equivalent Allowal lb/hour	ole Emissions: tons/year
5. Method of Compliance:			
6. Allowable Emissions Commen	(Description of (Dperating Method):	
Section [36] of [36]

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.

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>1</u>

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE10	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Compliance determined in accordance with	th Kiln Stack requireme	nts.
	5. Visible Emissions Comment:		

Visible Emissions Limitation:	Visible Emissions Limitation	_of _
--------------------------------------	------------------------------	-------

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
		🔲 Rule	Other
3.	Allowable Opacity:	ceptional Conditions:	0/2
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
5.	Visible Emissions Comment:		

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 1

1.	Parameter Code: TEMP	2.	Pollutant(s):		
3.	CMS Requirement:	X	Rule	Other	
4.	Monitor Information Manufacturer:				
	Model Number:		Serial Nu	umber:	
5.	Installation Date:	6.	Performance	e Specification Test Date:	
	 6. Continuous Monitor Comment: Based on 40 CFR 60.253 and Permit No. 0 of the gas stream at the exit of the therma 	0530 11 co	0021-018-AC al dryer.	; Monitors the temperature	
Co	Continuous Monitoring System: Continuous Monitor of				

1.	Parameter Code:	2. Pollutant(s):
3.	CMS Requirement:	Rule 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 [36] of [36]

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)
	X Attached, Document ID: 2010-FCB-EU60-I1 Submitted 11/08/2010
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)
	Attached, Document ID:
3	Detailed Description of Control Equipment: (Required for all permit applications, except Title
5.	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)
	X Attached Document ID: 2010-FCB-O&M Submitted 11/08/2010
4	
4.	Tide V size supervision association and Shutdown: (Required for all operation permit applications, except
	If the value operation permit revision applications if this information was submitted to the
	department within the previous rive years and would not be aftered as a result of the revision being sought)
	Sought)
	Attached, Document ID: 2010-FCB-O&M Subinitied 11/08/2010
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)
	Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
6.	Compliance Demonstration Reports/Records:
	Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Test Duce(s)/Tested.
	X Previously Submitted, Date: 1/6/2010
	Test Date(s)/Pollutant(s) Tested: VF
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	Test Date(s)/Tondam(s) Tested.
	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: X Not Applicable

Section [36] of [36]

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)):				
	Attached, Document ID:	X Not Applicable			
2.	. Good Engineering Practice Stack Height Analy	sis (Rules 62-212.400(4)(d) and 62-			
	212.500(4)(f), F.A.C.):				
	Attached, Document ID:	X Not Applicable			
3.	. Description of Stack Sampling Facilities: (Requ	uired for proposed new stack sampling facilities			
	only)				
	Attached, Document ID:	X Not Applicable			
Ac	Additional Requirements for Title V Air Operation Permit Applications				
1.	Identification of Applicable Requirements:				
	Attached, Document ID:2010-FCB-EU1-IT	<u>V1 (submitted 11/08/2010)</u>			
2.	Compliance Assurance Monitoring:				
	Attached, Document ID: No	ot Applicable			
3.	Alternative Methods of Operation:				
	Attached, Document ID: X	Not Applicable			
Δ	Alternative Modes of Operation (Emissions Tra	nding):			

Attached, Document ID: X Not Applicable

Additional Requirements Comment

Section [35] of [36]

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 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. (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.

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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 emissions unit. The emissions 	unit addressed in this Ei unit addressed in this Ei	niss niss	sions Unit Informatio	on S on S	Section is a regulated
	unregulated em	hissions unit.				
<u>Em</u>	The second secon	<u>ription and Status</u>	n	(01 1)		
1.	Type of Emissions	Unit Addressed in this	Sec	tion: (Check one)		· · · · · ·
	x This Emissions process or proc which has at le	s Unit Information Section luction unit, or activity, ast one definable emissi	on a whi on j	ch produces one or point (stack or vent).	e em more	e air pollutants and
	This Emissions of process or p point (stack or	s Unit Information Section roduction units and active vent) but may also prod	on a vitie uce	ddresses, as a single s which has at least fugitive emissions.	e em one	issions unit, a group definable emission
	This Emissions more process o	s Unit Information Section or production units and a	on a ctiv	addresses, as a single ities which produce	e em fugi	issions unit, one or itive emissions only.
2. S	Description of Em Single Emission Po Fine Coal Bin	issions Unit Addressed i int:	n tł	nis Section:		
3.	Emissions Unit Ide	entification Number: 06	1			
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 A	applicability: (Check all	tha	t apply)		
	Acid Rain Uni	t		11 57		
	CAIR Unit					
9.	Package Unit:					
	Manufacturer:			Model Number:		
10.	Generator Namepl	ate Rating: MW				
	7. Emissions Uni	t Comment:				

EMISSIONS UNIT INFORMATION Section [35] of [36]

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATION Section [35] of [36]

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.	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

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

EMISSIONS UNIT INFORMATION Section [35] of [36]

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:	·					

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL

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 Efficie	ent Efficiency of Control:		
3. Potential Emissions:	4. Synth	netically Limited?		
0.03 lb/hour 0.1 3	tons/year Y	es X No		
5. Range of Estimated Fugitive Emissions (as	applicable):			
tons/year				
6. Emission Factor: 0.01 gr/acf		7. Emissions		
		Method Code:		
Reference: Permit No.0530021-018-AC, BAC	Т	0		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:		
tons/year	From:	Го:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:		
tons/year	5 years 1	0 years		
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions Comment:				

POLLUTANT DETAIL INFORMATION Page [1] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

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):

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 Efficie	ency of Control:	
3. Potential Emissions:	4. Syntl	netically Limited?	
0.02 lb/hour 0.09	tons/year Y	es X No	
5. Range of Estimated Fugitive Emissions (as	applicable):		
to tons/year			
6. Emission Factor: 0.007 gr/acf		7. Emissions	
		Method Code:	
Reference: Permit No.0530021-018-AC, BAC	Т	0	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:	
tons/year	From:	Го:	
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:	
tons/year	5 years 1	0 years	
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment:			

POLLUTANT DETAIL INFORMATION Page [22] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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/hour0.09 tons/year	
5.	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 		

<u>Allowable Emissions</u> 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):

<u>Allowable Emissions</u> 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):

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G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>1</u>

1.	Visible Emissions Subtype:	2. Basis for Allowable C	Dpacity:
	VE05	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
	Annual compliance test using EPA Metho	od 9.	
5.	Visible Emissions Comment: Based on Pe	rmit No.0530021-018-AC	

Visible Emissions Limitation: Visible Emissions Limitation

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
		Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
5.	Visible Emissions Comment:		

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:	Rule 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:] Rule 🔲 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 [35] of [36]

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)
	X Attached, Document ID: 2010-FCB-EU61-I1 Submitted 11/08/2010
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)
	Attached, Document ID: 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)
	X Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
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)
	Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
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)
	Attached, Document ID: 2010-FCB-O&M Submitted 11/08/2010
6.	Compliance Demonstration Reports/Records:
	Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	(.),
	X Previously Submitted, Date: <u>1/6/2012</u>
	Test Date(s)/Pollutant(s) Tested: VE
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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: X Not Applicable
L	—

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)):					
	Attached, Document ID: X Not Applicable					
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-					
	212.500(4)(f), F.A.C.):					
	Attached, Document ID: X Not Applicable					
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities					
	only)					
	Attached, Document ID: X Not Applicable					
Ac	Additional Requirements for Title V Air Operation Permit Applications					

1.	Identification of Applicable Requirements:	
2.	Compliance Assurance Monitoring: Attached, Document ID:	□ Not Applicable
3.	Alternative Methods of Operation:	X Not Applicable
4.	Alternative Modes of Operation (Emissions Attached, Document ID:	Trading): X Not Applicable

Additional Requirements Comment

See Attachments A and B

EMISSIONS UNIT INFORMATION Section [36] of [36]

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 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. (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.

A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

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 en	nissions unit.				
En	nissions Unit Descu	ription and Status				
1.	Type of Emissions	Unit Addressed in this	Sec	tion: (Check one)		
	X This Emissions process or proc which has at le	s Unit Information Secti- luction unit, or activity, ast one definable emissi	on a whi on j	ddresses, as a single ch produces one or point (stack or vent)	e em nor	issions unit, a single e air pollutants and
	This Emissions of process or p point (stack or	s Unit Information Section roduction units and active vent) but may also prod	on a vitie uce	ddresses, as a single s which has at least fugitive emissions.	e em one	issions unit, a group definable emission
	This Emissions more process of	s Unit Information Section or production units and a	on a ctiv	addresses, as a single ities which produce	e em fugi	issions unit, one or itive emissions only.
2.	2. Description of Emissions Unit Addressed in this Section: Single Emission Point: Packing Plant					
3.	Emissions Unit Ide	entification Number: 06	2			
4.	Emissions Unit Status Code:	5. Commence Construction Date: NA	6.	Initial Startup Date: NA	7.	Emissions Unit Major Group SIC Code:
0	A Eadaral Drogram A	pplicability: (Chack all	the	t apply)		32
0.	Acid Rain Uni	t	ulla	a appry)		
		L				
9.	Package Unit:					
	Manufacturer:			Model Number:		
10	10. Generator Nameplate Rating: MW					
	8. Emissions Unit Comment:					

EMISSIONS UNIT INFORMATION Section [36] of [36]

Emissions Unit Control Equipment/Method: Control <u>1</u> of <u>1</u>

- 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 _____

Control Equipment/Method Description:
 Control Device or Method Code:

EMISSIONS UNIT INFORMATIONSection [36] of [36]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 200 TPH and 1,752,00)0TPY
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.	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on I	Plot Plan or	2. Emission Point 7	Type Code:			
Flow Diagram: Packing Plant		1				
 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Baghouse ID 641.BF150 						
4. ID Numbers or Descriptio	ns of Emission Ur	nits with this Emissior	n Point in Common:			
5. Discharge Type Code: H	 Stack Height 39 feet 	:	 Exit Diameter: 2.11 feet 			
8. Exit Temperature: 266°F	 9. Actual Volut 19,200 acfm 	metric Flow Rate:	10. Water Vapor: 2.0 %			
11. Maximum Dry Standard F 13,684 dscfm	low Rate:	12. Nonstack Emissi feet	on Point Height:			
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:						

D. SEGMENT (PROCESS/FUEL) INFORMATION

<u>Segment Description and Rate:</u> Segment <u>1</u> of <u>1</u>

1. Segment Description (Process/Fuel Type):

Industrial Processes; Mineral Products; Cement Manufacturing(Dry Process);Cement Loadout (Packing Plant)

2.	2. Source Classification Code (SCC):		3. SCC Units:		
	3-05-006-19		Tons Cement Produced		
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity
	200	1,752,000			Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10	Comment Comments				

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 Cod	e (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:					

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2.Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL

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 Efficie	ncy of Control:
3. Potential Emissions:	4. Synth	etically Limited?
1.17 lb/hour 5. 1	l tons/year Y	es X No
5. Range of Estimated Fugitive Emissions (as tons/year	applicable):	
6. Emission Factor: 0.01 gr/acf		7. Emissions
		Method Code:
Reference: Based on 0530021-018-AC, BACT		U
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:
tons/year	From: T	`o:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitorin	ng Period:
tons/year	5 years 10	0 years
10. Calculation of Emissions:		
11. Potential, Fugitive, and Actual Emissions Co	omment:	

POLLUTANT DETAIL INFORMATION Page [1] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date	of Allowable
	OTHER		Emissions:	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable	Emissions:
	0.01 gr/acf		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			

<u>Allowable Emissions</u> 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):

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

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

 Pollutant Emitted: PM₁₀ 	2. Total Percent Efficie	ency of Control:
3. Potential Emissions:	4. Synth	netically Limited?
0.82 lb/hour 3.6	tons/year Y	es X No
5. Range of Estimated Fugitive Emissions (as tons/year	applicable):	
6. Emission Factor: 0.007 gr/acf		7. Emissions
		Method Code:
Reference: Based on 0530021-018 AC, BACT		U
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:
tons/year	From:	Го:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:
tons/year	5 years 1	0 years
10. Calculation of Emissions:		
11. Potential, Fugitive, and Actual Emissions Co	omment:	

POLLUTANT DETAIL INFORMATION Page [22] of [22] 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.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

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.	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 		

<u>Allowable Emissions</u> Allowable Emissions ____ of ____

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

<u>Allowable Emissions</u> 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 [36] of [36]

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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 <u>1</u> of <u>2</u>

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE05	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 5 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	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:		2. Basis for Allowable	e Opacity:
	VE00		x Rule	Other
3.	Allowable Opacity:			
	Normal Conditions:	0% Ex	ceptional Conditions:	%
	Maximum Period of Excess C	pacity Allowe	ed:	min/hour
4.	Method of Compliance: Mon	thly, 1-minut	e EPA Method 22 test	
5.	Visible Emissions Comment:	Based on 40	CFR 63.1350(a)(4)(i)	

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:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	
~		

Co	<u>Continuous Monitoring System:</u> Continuous Monitor of			
1.	Parameter Code:	2. Pollutant(s):		
3.	CMS Requirement:	Rule Other		
4.	Monitor Information			
	Manufacturer:			
	Model Number:	Serial Number:		
5.	Installation Date:	6. Performance Specification Test Date:		
7.	Continuous Monitor Comment:			

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[36] EU 062 Packing Plant 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)
	X Attached, Document ID: Previously Submitted
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) Attached, Document ID: 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) $\overline{\mathbf{X}}$ 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) 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) Attached, Document ID: <u>NA</u>
6.	Compliance Demonstration Reports/Records: Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	X Previously Submitted, Date: <u>1/7/2010</u>
	Test Date(s)/Pollutant(s) Tested: <u>VE</u>
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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: X Not Applicable

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)):
	Attached, Document ID: X Not Applicable
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):
	Attached, Document ID: X Not Applicable
3.	Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities
	only)
	Attached, Document ID: X Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1.	Identification of Applicable Requirements: Attached, Document ID: 2010-FCB-EU1-ITV1 (submitted 11/08/2010)
2.	Compliance Assurance Monitoring: Attached, Document ID: <u>Refer comment</u> Not Applicable
3.	Alternative Methods of Operation: Attached, Document ID: X Not Applicable
4.	Alternative Modes of Operation (Emissions Trading): Attached, Document ID: Image: Not Applicable

Additional Requirements Comment

EU 062 Packing Plant is subject to 40 CFR 63, Subpart LLL which is post 1990 National emission standard for hazardous air pollutants (NESHAP) for PM. So CAM does not apply for this source.