APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

Identification of Facility

1.	Facility Owner/Company Name: CI	EMEX (Cement, Inc.		
2.	Site Name: Brooksville Plant			·	
3.	Facility Identification Number: 0530 [] Unknown	0010			
4.	Facility Location: Street Address or Other Locator: 16	30 Pond	ce DeLeon Boule	evard	
	City: Brooksville Co	ounty: H	lernando	Zip Code: 34601	
5.	Relocatable Facility?		6. Existing Pe	rmitted Facility?	
	[] Yes [X] No		[X] Yes	[] No	
Ar	oplication Contact				
1.	Name and Title of Application Cont	tact: Joh	nn B. Koogler – 1	Project Engineer	
2.	Application Contact Mailing Address				
	Organization/Firm: Koogler & Asso				
	Street Address: 4014 NW 13 th Street			~! ~ !	
	City: Gainesville		ate: Florida	Zip Code: 32609	_
3.	Application Contact Telephone Nun	nbers:			
	Telephone: (352) 377-5822		Fax: (352).	377-7158	
Ap	plication Processing Information (DEP Us	<u>se)</u>		
1.	Date of Receipt of Application:				
2.	Permit Number:		•	•	
3.	PSD Number (if applicable):				
4.	Siting Number (if applicable):				



MAR 13 2003

BUREAU OF AIR REGULATION

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one) [] Initial Title V air operation permit for an existing facility which is classified as a Title V source. Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source. Current construction permit number: Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application. Current construction permit number: Operation permit number to be revised: [X] Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.) Operation permit number to be revised/corrected: **Permit No. 0530010-002-AV** Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal. Operation permit number to be revised: Reason for revision: Air Construction Permit Application This Application for Air Permit is submitted to obtain: (Check one) [X] Air construction permit to construct or modify one or more emissions units. Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units. Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative or Responsible Official

1.	Name and Title of Owner/Authorized R	Lepresentative or	Responsibl	e Official:
	Stephen R. W	alser – Plant M	anager	
2.	Owner/Authorized Representative or Re	-	ial Mailing	Address:
	Organization/Firm: CEMEX Cement,	Inc.		
	Street Address: Post Office Box 6			
	City: Brooksville	State: Florida	Zip	Code: 34605-0006
3.	Owner/Authorized Representative or Re	esponsible Offic	ial Telephor	ne Numbers:
	Telephone: (352) 796-7241		352 <u>)</u> 754-98.	
4.	Owner/Authorized Representative or Re	esponsible Offic	ial Statemen	ıt:
	I, the undersigned, am the owner or aut the responsible official (check here [X] application, whichever is applicable. I formed after reasonable inquiry, that the accurate and complete and that, to the direction are based upemissions. The air pollutant emissions in this application will be operated and standards for control of air pollutant emand rules of the Department of Environment understand that a permit, if granted by a authorization from the Department, and legal transfer of any permitted emission.], if so) of the Ti hereby certify, b te statements ma best of my knowl pon reasonable units and air pol maintained so a nissions found in mental Protection the Department, I I will promptly	tle V source ased on info de in this ap ledge, any es techniques fution contris to comply a the statutes on and revisicannot be to	addressed in this ormation and belief oplication are true, stimates of emissions for calculating ol equipment described with all applicable sof the State of Florida fons thereof. I ransferred without epartment upon sale or
	Signature		Date	
* /	Attach letter of authorization if not curren	tly on file.		
<u>Pr</u>	ofessional Engineer Certification			
1.	Professional Engineer Name: John B. k	Koogler, Ph. D.,	PE	
	Registration Number: 12925			
2.	2 2			
	Organization/Firm: Koogler & Associa	tes		
	Street Address: 4014 NW 13 th Street			
	City: Gainesville	State: Florida	Zip	Code: 32609
3.	Professional Engineer Telephone Numb	ers:		
	Telephone: (352) 377-5822	Fax: (3	52) 377-715	58
				

4. Professional Engineer Statement:

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

- (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
- (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [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.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Attach any exception to certification statement.

Scope of Application

Emissions		Permit	Processing
Unit ID	Description of Emissions Unit	Type	Fee
-002	No. 1 Kiln Feed System (Baghouse D-31)		NA
-003	No. 1 Cement Kiln (Baghouse E-55)		NA
-004	No. 1 Clinker Cooler (Baghouse F-18)		NA
-006	Nos. 1&2 Clinker Silos (Baghouse F-31)		NA
-013	No. 2 Kiln Feed System (Baghouse H-13)		NA
-014	No. 2 Cement Kiln (Baghouse E-19)		NA
-015	No. 2 Clinker Cooler (Baghouse K-09)		NA
_016	No. 3 Clinker Silo (Baghouse L-07)		NA

Application Processing Fee

Check one: [Attached - Amount: \$	ſ	X	Not Applicable

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

Construction/Modification Information

1. Description of Proposed Project or Alterations:

The project has two parts:

- 1. A request for the use of waste tires as supplemental fuel in the No. 2 Kiln. Continuous utilization/firing of whole tires as supplemental fuel to coal is requested. The tire usage rate will be the same as for the No. 1 Kiln, previously permitted to burn tires. The maximum utilization/firing rate is 20.0% of the total Btu heat input, or 2.15 tons per hour.
- 2. A request for the Department to remove the 150 TPH rolling average preheater feed rate, while retaining the 165 TPH maximum, and adding an annual limitation of 1,314,000 TPY (based on 150 TPH x 8760 hours).

No changes in emissions are expected as a result of the requested changes.

- 2. Projected or Actual Date of Commencement of Construction: Upon approval
- 3. Projected Date of Completion of Construction: 12 months after commencement

Application Comment

See accompanying letter of transmittal with supporting documentation

DEP Form No. 62-210.900(1) - Form

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1.	Facility UTM Coor	dinates:	-	
	Zone: 17	East (km):	: 356.9 Nor	th (km): 3169.0
2.	Facility Latitude/Lo	ongitude:	<u> </u>	
	Latitude (DD/MM/	SS): 28/38/34	Longitude (DD/MN	A/SS): 82/28/25
3.	Governmental	4. Facility Status	5. Facility Major	6. Facility SIC(s):
	Facility Code: 0	Code: A	Group SIC Code:	
			32	3241
7.	Facility Comment (limit to 500 characters):	None	
		٠		

Facility Contact

- 1. Name and Title of Facility Contact: Charlie Walz Environmental Manager
- 2. Facility Contact Mailing Address:

Organization/Firm: CEMEX Cement, Inc.

Street Address: Post Office Box 6

City: Brooksville

State: Florida

Zip Code: 34605-0006

3. Facility Contact Telephone Numbers:

Telephone:

(352) 796-7241

Fax:

(352) 754-9836

DEP Form No. 62-210.900(1) - Form

Facility Regulatory Classifications

Check all that apply:

1.	[] Small Business Stationary Source? [X] Unknown
2.	[X] Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?
3.	[] Synthetic Minor Source of Pollutants Other than HAPs?
4.	[X] Major Source of Hazardous Air Pollutants (HAPs)?
5.	[] Synthetic Minor Source of HAPs?
6.	[X] One or More Emissions Units Subject to NSPS?
7.	[X] One or More Emission Units Subject to NESHAP?
8.	[] Title V Source by EPA Designation?
9.	Facility Regulatory Classifications Comment (limit to 200 characters):
	·

List of Applicable Regulations

Title V Core List	
The vert dist	
NESHAP Subpart LLL	
_	

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant	2. Pollutant	3. Requested E	missions Cap	4. Basis for	5. Pollutant
Emitted	Classif.	lb/hour	tons/year	Emissions Cap	Comment
PM	A				
PM10	A				_
NOx	A				
SO2	A				
СО	A	-			
VOC	A				
					-
·					
		_			

DEP Form No. 62-210.900(1) - Form

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1.	Area Map Showing Facility Location:
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
O	n file with DEP
2.	Facility Plot Plan:
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
Oı	n file with DEP
3.	Process Flow Diagram(s):
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
	n file with DEP
4.	Precautions to Prevent Emissions of Unconfined Particulate Matter:
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
5.	Fugitive Emissions Identification:
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
6.	Supplemental Information for Construction Permit Application:
	[] Attached, Document ID: [X] Not Applicable
7.	Supplemental Requirements Comment: None

DEP Form No. 62-210.900(1) - Form

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities:
[] Attached, Document ID: [X] Not Applicable
9. List of Equipment/Activities Regulated under Title VI:
[] Attached, Document ID:
[] Equipment/Activities On site but Not Required to be Individually Listed
[X] Not Applicable
10. Alternative Methods of Operation:
[] Attached, Document ID: [X] Not Applicable
11. Alternative Modes of Operation (Emissions Trading):
[] Attached, Document ID: [X] Not Applicable
12. Identification of Additional Applicable Requirements:
[] Attached, Document ID: [X] Not Applicable
13. Risk Management Plan Verification:
Plan previously submitted to Chemical Emergency Preparedness and Prevention
Office (CEPPO). Verification of submittal attached (Document ID:) or
previously submitted to DEP (Date and DEP Office:)
[] Plan to be submitted to CEPPO (Date required:)
[X] Not Applicable
14. Compliance Report and Plan:
[] Attached, Document ID: [X] Not Applicable
15. Compliance Certification (Hard-copy Required):
[] Attached, Document ID: [X] Not Applicable

DEP Form No. 62-210.900(1) - Form

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

ngle				
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.				
or more				
[X] 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.				
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):				
No. 1 Kiln Feed System				
Emissions Unit Identification Number: [] No ID ID: 002 [] ID Unknown				
unit?				
No. 1 Kiln Feed System 4. Emissions Unit Identification Number: [] No ID				

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 1 of 8 [002: No. 1 Kiln Feed System]

9. Emissions Unit Comment: (Limit to 500 Characters)

This application requests the Department to remove the 150 TPH rolling average preheater feed rate, while retaining the 165 TPH maximum, and adding an annual limitation of 1,314,000 TPY (based on 150 TPH x 8760 hours). This approach was discussed with DEP Tallahassee and SW District staff in 2001, and is consistent with the permitting approach used for other cement plants in Florida.

No other changes are requested for this emissions unit.

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 1 of 8 [002: No. 1 Kiln Feed System]

Emissions Unit Control Equipment

1.	Control Equipment/Method Description (Limit to 200 characters per device or method):
Ba	ghouse D-31
2.	Control Device or Method Code(s): 018

Emissions Unit Details

1.	Package Unit: N/A		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating: N/A	MW	
3.	Incinerator Information: N/A		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

DEP Form No. 62-210.900(1) - Form

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate: N/A		mmBtu/hr
2.	Maximum Incineration Rate: N/A	lb/hr	tons/day
3.	Maximum Process or Throughput Rate: 16	5 TPH dry preheater	r feed rate
4.	Maximum Production Rate: N/A		•
5.	Requested Maximum Operating Schedule:		
	hours/day	,	days/week
	weeks/yea	ar	8760 hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

This application requests the Department to remove the 150 TPH rolling average preheater feed rate.

The maximum preheater feed rate for the No. 1 Kiln shall not exceed 165 tons per hour (one-hour maximum) and 1,314,000 tons per year (based on 150 TPH and 8760 hours/year).

DEP Form No. 62-210.900(1) - Form

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Title V Core List	
NESHAP Subpart LLL	
	·

DEP Form No. 62-210.900(1) - Form

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or		2. Emission Point Type Code: 1					
Flow Diagran	Flow Diagram? Baghouse D-31						
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): N/A							
4. ID Numbers of	4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: N/A						
5. Discharge Ty	5. Discharge Type Code: V6. Stack Heig75 feet			 Exit Diameter: 1.7 feet 			
8. Exit Tempera 130°F	ture: 9.	Actual Vol Rate: 1000	umetric Flow 0 acfm	10. Water Vapor: 2%			
11. Maximum Dr 880	y Standard Flow 00 dscfm	Rate:	12. Nonstack Er	nission Point Height: N/A feet			
13. Emission Poir	nt UTM Coordina	ates:					
Zone: 17	East	(km): 356.24	0 North	n (km): 3168.440			
14. Emission Poir	nt Comment (lim	it to 200 chara	acters): None				

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 1 of 8 [002: No. 1 Kiln Feed System]

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters):									
Raw Material Transfer									
	•								
2. Source Classification Code	2. Source Classification Code (SCC): 3. SCC Units: Tons Transferred								
3-05-006-12	3-05-006-12								
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity						
165	1,314	4,000 Factor: N/A							
7. Maximum % Sulfur:	8. Maximum	% Ash: N/A	9. Million Btu per SCC Unit:						
N/A			N/A						
10. Segment Comment (limit t	o 200 characters): None							

DEP Form No. 62-210.900(1) - Form

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	Secondary Control Device Code	Pollutant Regulatory Code
PM	018		EL
	 	:	
			
			_
·			
_	•		

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

Emissions Unit Information Section <u>1</u> of <u>8</u> [002: No. 1 Kiln Feed System] Pollutant Detail Information Page <u>1</u> of <u>1</u>

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Emissions-Limited and Preconstruction Review Pollutants Only)

2. Total Percent Efficiency of Control: N/A

Potential/Fugitive Emissions

1. Pollutant Emitted: PM

3. Potential Emissions:		4. Synthetically		
1.02 lb/hour	4.47 tons/year	Limited? []		
5. Range of Estimated Fugitive Emissions: N/A	<u> </u>			
[] 1 [] 2 [] 3	to to	ns/year		
6. Emission Factor: 1.02 lb/hour		7. Emissions		
Reference: Permit No. 0530010-002-A	V	Method Code: 0		
8. Calculation of Emissions (limit to 600 charac	cters):			
1.02 lb/hour at 8760 hours/year = 4.47 tons/ye	ar			
9. Pollutant Potential/Fugitive Emissions Comm	nent (limit to 200 charact	ters):		
Emissions unit is equipped with baghouse. No changes in actual or potential emissions are expected or requested.				
Allowable Emissions Allowable Emissions 1 o	f <u>1</u>			
Basis for Allowable Emissions Code: RULE	2. Future Effective Da Emissions: NA	ate of Allowable		
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ole Emissions:		
N/A	1.02 lb/hour	4.47 tons/year		
5. Method of Compliance (limit to 60 character	s): Method 9 in lieu of I	Method 5		
				
6. Allowable Emissions Comment (Desc. of Op None	perating Method) (limit to	o 200 characters):		

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 1 of 8 [002: No. 1 Kiln Feed System]

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE10	2. Basis for Allowable (Opacity:		
	[X] Rule	[] Other		
3. Requested Allowable Opacity: Normal Conditions: 10% E Maximum Period of Excess Opacity Allow	xceptional Conditions: /ed:	10% 0 min/hour		
4. Method of Compliance: Method 9				
5. Visible Emissions Comment (limit to 200 c	characters): NESHAP			
Visible Emissions Limitation: Visible Emissions Limitation 2 of 2				
·)nacity:		
Visible Emissions Limitation: Visible Emiss 1. Visible Emissions Subtype: VE05	ions Limitation 2 of 2 2. Basis for Allowable ([X] Rule	Opacity: [] Other		
Visible Emissions Subtype: VE05 Requested Allowable Opacity:	2. Basis for Allowable C [X] Rule xceptional Conditions:			
Visible Emissions Subtype: VE05 Requested Allowable Opacity: Normal Conditions: 5% Ex	2. Basis for Allowable C [X] Rule xceptional Conditions:	[] Other 5%		
Visible Emissions Subtype: VE05 Requested Allowable Opacity: Normal Conditions: 5% Example Maximum Period of Excess Opacity Allow	2. Basis for Allowable C [X] Rule exceptional Conditions: red: haracters): Rule 62-297, FA	5% 0 min/hour		

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 1 of 8 [002: No. 1 Kiln Feed System]

I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor of

	**		
1.	Parameter Code: N/A	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 (limit to 200	cha	aracters):

DEP Form No. 62-210.900(1) - Form

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

. Process Flow Diagram	
[] Attached, Document ID: [] Not Applicable [X] Waiver Requested	
On file with DEP	
. Fuel Analysis or Specification	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested	
. Detailed Description of Control Equipment	
[] Attached, Document ID: [] Not Applicable [X] Waiver Requested	
[] \text{\tince{\text{\tin\text{\tex{\tex	_
. Description of Stack Sampling Facilities	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested	
•	
. Compliance Test Report	
[] Attached, Document ID:	I
[] Previously submitted, Date:	
[X] Not Applicable	
Land to the second	
P 1 C C 1 1 1 1	_
. Procedures for Startup and Shutdown	
Procedures for Startup and Shutdown [] Attached, Document ID: [X] Not Applicable [] Waiver Requested	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a)	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable O. Supplemental Requirements Comment:	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable O. Supplemental Requirements Comment:	
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable O. Supplemental Requirements Comment:	

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 1 of 8 [002: No. 1 Kiln Feed System]

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation [] Attached, Document ID: [X] Not Applicable							
12. Alternative Modes of Operation (Emissions Trading)							
[] Attached, Document ID: [X] Not Applicable							
13. Identification of Additional Applicable Requirements							
[] Attached, Document ID: [X] Not Applicable							
14. Compliance Assurance Monitoring Plan							
[] Attached, Document ID: [X] Not Applicable							
15. Acid Rain Part Application (Hard-copy Required)							
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:							
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID:							
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:							
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:							
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:							
[] Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:							
[X] Not Applicable							

DEP Form No. 62-210.900(1) - Form

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

1.	1. Type of Emissions Unit Addressed in This Section: (Check one)									
[X	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.	R	egulated or Unro	egul	ated Emissions Unit	? (0	Check one)				
[X	[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.									
[]	The emissions uemissions unit.	ınit	addressed in this Em	issio	ons Unit Information Sec	ctio	n is an unregulated		
3.	D	escription of En	nissi	ons Unit Addressed	in T	This Section (limit to 60 c	cha	racters):		
Ce	Cement Kiln No. 1									
4.	4. Emissions Unit Identification Number: [] No ID [] ID Unknown									
5.	Ε	missions Unit	6.	Initial Startup	7	Emissions Unit Major	8.	Acid Rain Unit?		
	Status Code: A Date: N/A Date: N/A Status Code: 32 Status Code: 32 Status Code: 32									

DEP Form No. 62-210.900(1) - Form

9. Emissions Unit Comment: (Limit to 500 Characters)

The application requests the Department to remove the 150 TPH rolling average preheater feed rate limitation, while retaining the 165 TPH maximum, and adding 1,314,000 TPY (based on 150 TPH x 8760 hours). This approach is consistent with the permitting approach used for other cement plants in Florida.

No changes in emissions are expected as a result of the requested changes.

DEP Form No. 62-210.900(1) - Form

Emissions Unit Control Equipment

Control Equipment/Method Description (Limit to 200 characters per device or method):
--

Baghouse

Particulate emissions from the No. 1 Kiln are controlled by the Fuller Draco Custom Baghouse (Baghouse ID E-55, with 20 compartments exhausting to one common stack).

2. Control Device or Method Code(s): 016

Emissions Unit Details

1.	Package Unit: N/A		•
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating: N/A	MW	
3.	Incinerator Information: N/A		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

DEP Form No. 62-210.900(1) - Form

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		300 mmBtu/hr
2.	Maximum Incineration Rate: N/A	lb/hr	tons/day
3.	Maximum Process or Throughput Rate: 165	TPH Preheater fee	d rate
4.	Maximum Production Rate: 99 TPH Clinke	r	
5.	Requested Maximum Operating Schedule:		
	hours/day		days/week
	weeks/year	•	8760 hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

This application requests the Department to remove the 150 TPH rolling average preheater feed rate. The maximum preheater feed rate for the No. 1 Kiln shall not exceed 165 tons per hour (one-hour maximum) and 1,314,000 tons per year (based on 150 TPH and 8760 hours/year).

The clinker production rate is a function of preheater feed rate:

Clinker Production = Preheater Feed x = 0.60 = 99.0 tph

DEP Form No. 62-210.900(1) - Form

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Title V Core List	
NESHAP Subpart LLL	
·	
	
	•

DEP Form No. 62-210.900(1) - Form

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

Identification of Point on Plot Plan or Flow Diagram? No. 1 Kiln Stack		2. Emission Point Type Code: 1				
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): N/A						
4. ID Numbers or Descriptions	s of Emission Ui	nits with this Emi	ssion Point in Comm	on: N/A		
5. Discharge Type Code: V	6. Stack Height 150 feet	ht:	7. Exit Diameter: 13 feet			
8. Exit Temperature: 250°F	9. Actual Vol Rate: 315,0	umetric Flow 00 acfm	10. Water Vapor:	2%		
11. Maximum Dry Standard Flo 230,00	ow Rate: 0 dscfm	12. Nonstack Emission Point Height: N/A feet				
13. Emission Point UTM Coord	linates:					
Zone: 17 E	ast (km): 356.25	0 North	n (km): 3168.370			
14. Emission Point Comment (limit to 200 characters): None						

DEP Form No. 62-210.900(1) - Form

N/A

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 7

1. Segment Description (Process/Fuel Type) (limit to 500 characters):							
Mineral Products: Cement Manufacturing – Dry Process: Preheater Kiln							
2. Source Classification Cod 3-05-006-22	le (SCC):	3. SCC Units	: Tons Processed				
4. Maximum Hourly Rate: 165	5. Maximum 1,31	Annual Rate: 4,000	6. Estimated Annual Activity Factor: N/A				
7. Maximum % Sulfur: N/A	8. Maximum	% Ash: // A	9. Million Btu per SCC Unit: N/A				
10. Segment Comment (limit	to 200 characters	s):					
Preheater feed rate							
165 TPH maximum 1,314,000 TPY maximum (b	aced on 150 TDU	I v 8760)					
1,514,000 11 1 maximum (0	ased off 150 TFT	1 x 6 / 00)					
Segment Description and Ra	ate: Segment 2 o	of <u>7</u>					
1. Segment Description (Pro	cess/Fuel Type)	(limit to 500 cha	aracters):				
Mineral Products: Cement I	Manufacturing -	- Dry Process: I	Preheater Kiln				
2. Source Classification Code (SCC): 3. SCC Units: Tons Clinker							
3-05-006-22	e (SCC).	3. SCC OIIIS.	Tons Chiker				
4. Maximum Hourly Rate: 99.0	5. Maximum 788	Annual Rate: ,400	6. Estimated Annual Activity Factor: N/A				
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:				

10. Segment Comment (limit to 200 characters):

Max Hourly Rate = Max Hourly Preheater Rate x 0.60 = 99.0 tph Annual Rate = Avg Hourly Preheater Rate x 0.60 x 8760 hr/yr = 788,400 tpy

N/A

DEP Form No. 62-210.900(1) - Form

N/A

Segment Description and Rate: Segment 3 of 7

1. Segment Description (Process/Fuel Type) (limit to 500 characters):

In-Process Fuel Use: Distillate Oil: Cement Kiln

2. Source Classification Code (SCC):

3. SCC Units: 1000 Gallons Burned

3-90-005-02

4. Maximum Hourly Rate:
2.1

5. Maximum Annual Rate:
18536.2

7. Maximum % Sulfur:
N/A

8. Maximum % Ash:
N/A

9. Million Btu per SCC Unit:
N/A

141.3

10. Segment Comment (limit to 200 characters): No change requested in this application.

Segment Description and Rate: Segment 4 of 7

1. Segment Description (Process/Fuel Type) (limit to 500 characters):

In-Process Fuel Use: Residual Oil: Cement Kiln

2. Source Classification Code (SCC): 3-90-004-02			3. SCC Units:	1000 Gallons Burned
4.	Maximum Hourly Rate: 2.0	5. Maximum . 176	Annual Rate: 60.2	6. Estimated Annual Activity Factor: N/A
7.	Maximum % Sulfur: N/A	8. Maximum % Ash: N/A		9. Million Btu per SCC Unit: 148.8

10. Segment Comment (limit to 200 characters): No change requested in this application.

DEP Form No. 62-210.900(1) - Form

Segment Description and Rate: Segment 5 of 7

1. Segment Description (Process/Fuel Type) (limit to 500 characters):

In-Process Fuel Use: Natural Gas: Cement Kiln

2. Source Classification Code (SCC):
3. SCC Units: Million Cubic Feet Burned
3-90-006-02

4. Maximum Hourly Rate:
0.29
5. Maximum Annual Rate:
2563.9
6. Estimated Annual Activity
Factor: N/A

7. Maximum % Sulfur:
N/A
8. Maximum % Ash:
N/A
9. Million Btu per SCC Unit:
1025

10. Segment Comment (limit to 200 characters): No change requested in this application.

Segment Description and Rate: Segment 6 of 7

1. Segment Description (Process/Fuel Type) (limit to 500 characters):

In-Process Fuel Use: Bituminous Coal: Cement Kiln

2. Source Classification Code (SCC):
3. SCC Units: Tons Burned
3-90-002-01

4. Maximum Hourly Rate:
12.0
5. Maximum Annual Rate:
105120
7. Maximum % Sulfur:
N/A
8. Maximum % Ash:
N/A
9. Million Btu per SCC Unit:
N/A
25

10. Segment Comment (limit to 200 characters): No change requested in this application.

DEP Form No. 62-210.900(1) - Form

Segment Description and Rate: Segment 7 of 7

1.	Segment Description (Process/Fuel Type) (limit to 500 characters):						
	In-Process Fuel Use: Tires						
				·			
2.	. Source Classification Code (SCC): 3. SCC Units: Tons Burned				ns Burned		
	3-90-012-99					·	
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity	
	2.15	18834 Factor: N/A					
7.	Maximum % Sulfur:	8.	Maximum ⁹	% Ash:	9.	Million Btu per SCC Unit:	
	N/A		N/A			27.9	
10.	10. Segment Comment (limit to 200 characters): No change requested in this application.						
	·						

DEP Form No. 62-210.900(1) - Form

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM/PM10	016	None	EL
SO2	None	None	EL
NOx	None	None	EL
СО	None	None	EL
voc	None	None	EL
DIOX	None	None	EL

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM/PM10	2. Total Percent Efficiency of Control: 99%						
3. Potential Emissions:	995	4. Synthetically					
29.7 lb/hour	118.3 tons/year	Limited? []					
5. Range of Estimated Fugitive Emissions: No		Emmed: []					
		ns/year					
6. Emission Factor: 0.18 lb/ton dry preheater		7. Emissions					
Reference: Permit No. 0530010-002-A		Method Code: 0					
8. Calculation of Emissions (limit to 600 chara	cters):						
0.18 lb/ton x 165 tons/hr = 29.7 lb/hour							
@ 1,314,000 tons/yr = 118.3 tons/year							
9. Pollutant Potential/Fugitive Emissions Com	mont (limit to 200 abarras	towa).					
9. Foliulant Fotential/Fugitive Emissions Com	ment (mint to 200 charac	iers):					
Emissions unit is equipped with baghouse. No	o changes in actual or no	otential emissions					
are expected or requested.	o onemgos in woodan or p						
Allowable Emissions Allowable Emissions 1 o	of <u>1</u>						
Basis for Allowable Emissions Code:	2. Future Effective Da	te of Allowable					
RULE	Emissions: N/A						
3. Requested Allowable Emissions and Units:	4. Equivalent Allowab	ole Emissions:					
0.18 lb/ton dry preheater feed	29.7 lb/hour	118.3 tons/year					
5. Method of Compliance (limit to 60 characters): Method 5							
6. Allowable Emissions Comment (Desc. of Op	perating Method) (limit to	200 characters):					

DEP Form No. 62-210.900(1) - Form

No changes in allowable emissions are requested.

Emissions Unit Information Section <u>2</u> of <u>8</u> Pollutant Detail Information Page <u>2</u> of <u>6</u>

Potential/Fugitive Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficie	ency of Control:
	N/A	
3. Potential Emissions:	,	4. Synthetically
16.5 lb/hour	65.7 tons/year	Limited? []
5. Range of Estimated Fugitive Emissions: N/A	4	
[] 1 [] 2 [] 3	to to:	ns/year
6. Emission Factor: 0.10 lb/ton dry preheater	feed rate	7. Emissions
Reference: Permit No. 0530010-002-AV		Method Code: 0
8. Calculation of Emissions (limit to 600 chara	cters):	
0.10 lb/ton x 165 tons/hr = 16.5 lb/hour @ 1,314,000 tons/yr = 65.7 tons/year		
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):		
No changes in actual or potential emissions are expected or requested.		

Allowable Emissions Allowable Emissions $\underline{1}$ of $\underline{1}$

Basis for Allowable Emissions Code: RULE	2. Future Effective Da Emissions: N/A	te of Allowable
3. Requested Allowable Emissions and Units:	4. Equivalent Allowat	ole Emissions:
0.10 lb/ton dry preheater feed	16.5 lb/hour	65.7 tons/year
5. Method of Compliance (limit to 60 characters): Method 6C		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		
No changes in allowable emissions are requested.		

DEP Form No. 62-210.900(1) - Form

Pollutant Detail Information Page 3 of 6

Potential/Fugitive Emissions

1. Pollutant Emitted: NOx	2. Total Percent Efficie	ency of Control:	
	N/.	A	
3. Potential Emissions:		4. Synthetically	
301.9 lb/hour	1202.3 tons/year	Limited? []	
5. Range of Estimated Fugitive Emissions: N/A	4		
[] 1 [] 2 [] 3	to to:	ns/year	
6. Emission Factor: 1.83 lb/ton dry preheater	· feed rate	7. Emissions	
Reference: Permit No. 0530010-002-	\mathbf{AV}	Method Code: 0	
8. Calculation of Emissions (limit to 600 chara	cters):		
1.83 lb/ton x 165 tons/hr = 301.9 lb/hour @ 1,314,000 tons/yr = 1202.3 tons/year			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			
No changes in actual or potential emissions are expected or requested.			

Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code:	2. Future Effective D	ate of Allowable
RULE	Emissions: N/A	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowa	ble Emissions:
1.83 lb/ton dry preheater feed	301.9 lb/hour	1202.3 tons/year
5. Method of Compliance (limit to 60 characters): Method 7E		
·		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		
No changes in allowable emissions are requested.		
	,	

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 2 of 8 Pollutant Detail Information Page 4 of 6

Potential/Fugitive Emissions

1. Pollutant Emitted: CO	2. Total Percent Efficie	ency of Control:	
	N/2	A	
3. Potential Emissions:		4. Synthetically	
198.0 lb/hour	788.4 tons/year	Limited? []	
5. Range of Estimated Fugitive Emissions: No	t Applicable		
[] 1 [] 2 [] 3	to to:	ns/year	
6. Emission Factor: 1.20 lb/ton dry preheater	feed	7. Emissions	
Reference: Permit No. 0530010-002-A	AV	Method Code: 0	
8. Calculation of Emissions (limit to 600 chara	cters):		
1.20 lb/ton x 165 tons/hour = 198.0 lb/hour @ 1,314,000 tons/yr = 788.4 tons/year			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			
No changes in actual or potential emissions are expected or requested.			

$\underline{Allowable\ Emissions}\ \ \underline{1}\ of\ \underline{1}$

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable	
RULE	Emissions: N/A	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:	
1.20 lb/ton dry preheater feed	198.0 lb/hour 788.4 tons/ye	ar
5. Method of Compliance (limit to 60 characters): Method 10		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		
None		

DEP Form No. 62-210.900(1) - Form

Pollutant Detail Information Page 5 of 6

Potential/Fugitive Emissions

1. Pollutant Emitted: VOC	2. Total	Percent Efficie	ency of Control:
		N /2	4
3. Potential Emissions:			4. Synthetically
14.9 lb/hour	59.1	tons/year	Limited? []
5. Range of Estimated Fugitive Emissions: No	t Applicab	le	
[] 1 [] 2 [] 3		_ to to	ns/year
6. Emission Factor: 0.09 lb/ton dry preheater	feed		7. Emissions
Reference: Permit No. 0530010-002-A	AV		Method Code: 0
8. Calculation of Emissions (limit to 600 chara	cters):		
0.09 lb/ton x 165 tons/hour = 14.9 lb/hour @ 1,314,000 tons/yr = 59.1 tons/year			
9. Pollutant Potential/Fugitive Emissions Com	ment (limit	to 200 charact	ters):
No changes in actual or potential emissions are expected or requested.			

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

1. Basis for Allowable Emissions Code:	2. Future Effective D	ate of Allowable
RULE	Emissions: N/A	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowa	ble Emissions:
0.09 lb/ton dry preheater feed	14.9 lb/hour	59.1 tons/year
5. Method of Compliance (limit to 60 characters): Not required		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		
None		

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section <u>2</u> of <u>8</u> Pollutant Detail Information Page <u>6</u> of <u>6</u>

Potential/Fugitive Emissions

1. Pollutant Emitted: DIOX	2. Total Percent Efficie	ency of Control:
	N/A	<u> </u>
3. Potential Emissions:	•	4. Synthetically
0.00000021 lb/hour 0.0000009 to	ns/year	Limited? []
5. Range of Estimated Fugitive Emissions: N/A	4	-
[] 1 [] 2 [] 3	to to:	ns/year
6. Emission Factor: 1.7 x 10 ⁻¹⁰ gr/dscf TEQ a	t 7% O ₂	7. Emissions
Reference: MACT		Method Code: 0
8. Calculation of Emissions (limit to 600 chara	icters):	
1.7 x 10 ⁻¹⁰ gr/dscf x 230000 dscfm x (20.9 – 12.0)/(20.9 – 7.0) x 60 min/hour x 1.0 lb/7000 gr = 0.00000021 lb/hour @ 8760 hours/yr = 0.0000009 tons/year		
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): NESHAP		
		,
	•	

<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: N/A	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:	
1.7×10^{-10} gr/dscf TEQ at 7% O ₂	0.00000021 lb/hour 0.0000009 tons/year	
5. Method of Compliance (limit to 60 characters): Method 23		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		
NESHAP Subpart LLL		

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1.	Visible Emissions Subtype: VE10	2. Basis for Allowable	Opacity:
		[X] Rule	[] Other
3.	Requested Allowable Opacity:		
	Normal Conditions: 10% Ex	ceptional Conditions:	10%
	Maximum Period of Excess Opacity Allowe	ed:	0 min/hour
4.	Method of Compliance: Method 9		
	Visible Emissions Comment (limit to 200 cl	paracters): None	
٥.	Visible Emissions Comment (mint to 200 cl	naraciers). Hone	

DEP Form No. 62-210.900(1) - Form

I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 1 of 3

Continuous rightsoring by stemic continuous		
1. Parameter Code: COM	2. Pollutant(s): Opacity	
3. CMS Requirement:	[X] Rule [] Other	
4. Monitor Information:		
Manufacturer:		
Model Number:	Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 20	0 characters): None	
Continuous Monitoring System: Continuous	s Monitor <u>2</u> of <u>3</u>	
1. Parameter Code: CEM	2. Pollutant(s): CO and/or O ₂	
3. CMS Requirement:	[] Rule [X] Other	
4. Monitor Information:		
Manufacturer:		
Model Number:	Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 20)	O characters):	
(
Process monitors, not for compliance		
Continuous Monitoring System: Continuous	Monitor $\underline{3}$ of $\underline{3}$	
1. Parameter Code: TEMP	2. Pollutant(s): Temperature	
3. CMS Requirement:	[X] Rule [] Other	
4. Monitor Information:		
Manufacturer:		
Model Number:	Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200	characters): NESHAP Subpart LLL	

DEP Form No. 62-210.900(1) - Form

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1.	
J	Process Flow Diagram
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
-	n file with DEP
2.	Fuel Analysis or Specification
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
3.	Detailed Description of Control Equipment
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
Oı	n file with DEP
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
Oı	n file with DEP
5.	Compliance Test Report
	[] Attached, Document ID:
	[] Previously submitted, Date:
	[X] Not Applicable
	D 1 C - C - 1 - 1 - 1
0.	Procedures for Startup and Shutdown
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan (a)
7.	
	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested
	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application
	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested
8.	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application
8.	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable
8.9.	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable
8.9.	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute
8.9.11	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable Supplemental Requirements Comment:
8.9.11	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable
8.9.11	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable Supplemental Requirements Comment:
8.9.11	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable Supplemental Requirements Comment:

DEP Form No. 62-210.900(1) - Form

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part Application (Hard-copy Required)
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

III. EMISSIONS UNIT INFORMATION

[004: Clinker Cooler No. 1]

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

1.	1. Type of Emissions Unit Addressed in This Section: (Check one)							
[3	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.							
[]					dresses, as a single emi hich produce fugitive er		-
2.	R	egulated or Unr	egu]	ated Emissions Unit	? (0	Check one)		
[X	[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.							
[]	The emissions unit.	ınit	addressed in this Em	issi	ons Unit Information Se	ctio	n is an unregulated
		•		ns Unit Addressed in	ı Th	is Section (limit to 60 c	hara	acters):
Cli	in]	ker Cooler No.	1			,		
4.	4. Emissions Unit Identification Number: [] No ID ID: 004 [] ID Unknown							
5.		missions Unit tatus Code: A	6.	Initial Startup Date:	7.	Emissions Unit Major Group SIC Code: 32	8.	Acid Rain Unit?

DEP Form No. 62-210.900(1) - Form

[004: Clinker Cooler No. 1]

9. Emissions Unit Comment: (Limit to 500 Characters)

This application requests the Department to remove the 150 TPH rolling average preheater feed rate, while retaining the 165 TPH maximum, and adding 1,314,000 TPY (based on 150 TPH x 8760 hours). This approach is consistent with the permitting approach used for other cement plants in Florida.

No other changes are requested for this emissions unit.

DEP Form No. 62-210.900(1) - Form

Emissions Unit Control Equipment

Baghouse F-18

1

2. Control Device or Method Code(s): 016

Emissions Unit Details

1.	Package Unit: N/A		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating: N/A	MW	
3.	Incinerator Information: N/A		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

DEP Form No. 62-210.900(1) - Form

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate: N/A		mmBtu/hr
2.	Maximum Incineration Rate: N/A	lb/hr	tons/day
3.	Maximum Process or Throughput Rate: 99	TPH and 788,400 T	PY Clinker
4.	Maximum Production Rate: N/A		
5.	Requested Maximum Operating Schedule:		
	hours/day		days/week
	weeks/yea	ur	8760 hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

This application requests the Department to remove the 150 TPH rolling average preheater feed rate, as a function of clinker cooler emissions.

Clinker production is a function of preheater feed:

Max hourly rate = Max hourly Preheater Rate x 0.60 = 99.0 TPH Annual rate = Annual Preheater Rate x 0.60 = 788,400 TPY

DEP Form No. 62-210.900(1) - Form

[004: Clinker Cooler No. 1]

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Title V Core List	
NESHAP Subpart LLL	
	·

DEP Form No. 62-210.900(1) - Form

D. EMISSION POINT (STACK/VENT) INFORMATION

[004: Clinker Cooler No. 1]

Emission Point Description and Type

1.	Identification of Point on Plot Plan or Flow Diagram? Baghouse F-18		2. Emission Po	oint Type Code: 1	
3.	-		g this Emissions I	Unit for VE Tracking (limit to	
	100 characters per point): N	I/ A		·	
	ID Marshaus on Description	of Emission II	aita erith thia Emi	saine Dairt in Common N/A	
4.	D Numbers of Description:	s of Emission Ur	nts with this Emi	ssion Point in Common: N/A	
	Discharge Type Code: V	6. Stack Heigh	ht	7. Exit Diameter:	
٥.	Discharge Type Code. V	77 feet	ut.	7. Exit Diameter. 7.5 feet	
8.	Exit Temperature:		umetric Flow	10. Water Vapor:	
	225 °F	Rate: 76000	acfm a	2%	
11.	Maximum Dry Standard Flo	ow Rate:	12. Nonstack Er	nission Point Height: N/A	
	57400 dscfm			feet	
13.	Emission Point UTM Coord	linates:			
	Zone: 17 E	ast (km): 356.25	0 North	n (km): 3168.560	
14.	Emission Point Comment (1	imit to 200 chara	acters): None		

(Regulated Emissions Units Only)

DEP Form No. 62-210.900(1) - Form

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Prod	Segment Description (Process/Fuel Type) (limit to 500 characters):						
Mineral Products: C	Mineral Products: Cement Manufacturing – Dry Process: Clinker Cooler						
2. Source Classification Code	e (SCC):	3. SCC Units	: Tons Processed				
3-05-006-14	. ,	•					
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity				
99	788	400	Factor: N/A				
7. Maximum % Sulfur:	8. Maximum 9	% Ash: N/A	9. Million Btu per SCC Unit:				
N/A			N/A				
10. Segment Comment (limit to 200 characters): None							

DEP Form No. 62-210.900(1) - Form

[004: Clinker Cooler No. 1]

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code	
PM	016		EL	
			_	
·				

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 3 of 8 [004: Clinker Cooler No. 1] Pollutant Detail Information Page 1 of 1

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM	2. Total Percent Effic	iency of Control: N/A			
3. Potential Emissions: 14.9 lb/hour	59.1 tons/year	4. Synthetically Limited? []			
5. Range of Estimated Fugitive Emissions: N/A		ons/year			
6. Emission Factor: 0.09 lb/ton dry preheater Reference: Permit No. 0530010-002-A		7. Emissions Method Code: 0			
 8. Calculation of Emissions (limit to 600 chara) 0.09 lb/ton x 165 TPH = 14.9 lb/hr 0.09 lb/ton at 1,314,000 TPY = 59.1 tons/year 	cters):				
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Emissions unit is equipped with baghouse. No changes in actual or potential emissions are expected or requested.					
Allowable Emissions Allowable Emissions 1 o 1. Basis for Allowable Emissions Code: RULE	2. Future Effective D Emissions: NA	ate of Allowable			
3. Requested Allowable Emissions and Units:					
0.09 lb/ton dry preheater feed	14.9 lb/hour	59.1 tons/year			
5. Method of Compliance (limit to 60 characters): Method 5					
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): It is requested that the hourly emissions limitation based on the 150 TPH rolling average preheater feed rate be removed.					

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 3 of 8 [004: Clinker Cooler No. 1]

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

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

1.	Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity:		
		[X] Rule	[] Other	
3.	Requested Allowable Opacity:			
	Normal Conditions: 10% Ex	cceptional Conditions:	10%	
	Maximum Period of Excess Opacity Allowe	ed:	0 min/hour	
4.	Method of Compliance: Method 9			
5.	Visible Emissions Comment (limit to 200 c	haracters): NESHAP		
		•		
	•			

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 3 of 8 [004: Clinker Cooler No. 1]

I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 1 of 1

1.	Parameter Code: COMS	2. Pollutant(s): Opacity
3.	CMS Requirement:	[X] Rule [] Other
4.	Monitor Information:	
	Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment (limit to 200	characters): None
	·	
	•	

DEP Form No. 62-210.900(1) - Form

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1	
1.	Process Flow Diagram
_	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
	file with DEP
2.	Fuel Analysis or Specification
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
5.	Compliance Test Report
	[] Attached, Document ID:
ı	Previously submitted, Date:
	
	[X] Not Applicable
6	Procedures for Startup and Shutdown
0.	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
	[] Attached, Document 15 [14] Not Applicable [] Walver Requested
7.	O and a sub-distriction of Distriction of Districti
	Operation and Maintenance Plan (a)
	Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested
	[] Attached, Document ID: [] Not Applicable [] Waiver Requested
	•
	[] Attached, Document ID: [] Not Applicable [] Waiver Requested
8.	[] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable
8.	[] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute
8.	Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable
8.	[] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute
9.	[] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable 10. Supplemental Requirements Comment:
9.	Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable
9.	[] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable 10. Supplemental Requirements Comment:
9.	[] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable 10. Supplemental Requirements Comment:
9.	[] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable 10. Supplemental Requirements Comment:

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 3 of 8 [004: Clinker Cooler No. 1]

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
[] Tituenes, Bootshelt 18 [11] Tot Tipphotoic
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part Application (Hard-copy Required)
[] Acid Rain Part – Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

DEP Form No. 62-210.900(1) - Form

III. EMISSIONS UNIT INFORMATION

[006: Clinker Silos Nos. 1 & 2]

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

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. Regulated or Unregulated Emissions Unit? (Check one)						
[X] 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.						
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Clinker Silos Nos. 1 & 2						
4. Emissions Unit Identification Number: [006]						
5. Emissions Unit Startup Status Code: A Date: 7. Emissions Unit Major Group SIC Code: 32 []						
9. Emissions Unit Comment: (Limit to 500 Characters)						
This application requests the Department to remove the 150 TPH rolling average preheater feed rate, while retaining the 165 TPH maximum, and adding 1,314,000 TPY (based on 150 TPH x 8760 hours). This approach is consistent with the permitting approach used for other cement plants in Florida.						
No other changes are requested for this emissions unit.						

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):
Baghouse F-31
·
·
2. Control Daviss on Mathed Code(s): 016
2. Control Device or Method Code(s): 016
Emissions Unit Details

1.	Package Unit: N/A			
	Manufacturer:			
	Model Number:			
2.	Generator Nameplate Rating: N/A	MW		
3.	Incinerator Information: N/A			
	Dwell Temperature:		°F	
	Dwell Time:		seconds	1
	Incinerator Afterburner Temperature:		°F	

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

[006: Clinker Silos Nos. 1 & 2]

8760 hours/year

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate: N/A	
2.	Maximum Incineration Rate: N/A	lb/hr
3.	Maximum Process or Throughput Rate: 99 TPH and 788,400 TF	Y Clinker
4.	Maximum Production Rate: N/A	
5.	Requested Maximum Operating Schedule:	
	hours/day	days/week

6. Operating Capacity/Schedule Comment (limit to 200 characters):

This application requests the Department to remove the 150 TPH rolling average preheater feed rate, as a function of clinker cooler emissions.

weeks/year

Clinker production is a function of preheater feed:

Max hourly rate = Max hourly Preheater Rate x 0.60 = 99.0 TPH Annual rate = Annual Preheater Rate x 0.60 = 788,400 TPY

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

[006: Clinker Silos Nos. 1 & 2]

List of Applicable Regulations

Title V Core List	
NESHAP Subpart LLL	
	·

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

[006: Clinker Silos Nos. 1 & 2]

Emission Point Description and Type

1.	Flow Diagram? Baghouse F-31		2. Emission Point Type Code: 1			
	3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): N/A					
	4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: N/A					
5.	Discharge Type Code: V	6. Stack Height 77 feet	ht:	7. Exit Diameter: 2.5 ft		
8.	Exit Temperature: 100	9. Actual Volument Rate: 15000	= =	10. Water Vapor: 2%		
11.	11. Maximum Dry Standard Flow Rate: 12. Nonstack Emission Point Height: N/A feet					
13.	13. Emission Point UTM Coordinates:					
	Zone: 17	ast (km): 356.25	0 North	n (km): 3168.560		
14.	Emission Point Comment (l	imit to 200 chara	acters): None			
	<i>,</i>					

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1.	Segment Description (Process/Fuel Type) (limit to 500 characters):						
	Mineral Products: Cement Manufacturing - Dry Process: Clinker Storage						
2.	Source Classification Code	e (S	CC):	3. SCC Units: Tons Processed			
	3-05-006-14						
4.	Maximum Hourly Rate:	5.	Maximum A	Annı	ıal Rate:	6.	Estimated Annual Activity
	99	788400				Factor: N/A	
7.	Maximum % Sulfur:	8.	Maximum ⁹	% As	sh: N/A	9.	Million Btu per SCC Unit:
	N/A						N/A
10.	10. Segment Comment (limit to 200 characters): None						

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	Secondary Control Device Code	4. Pollutant Regulatory Code	
PM	016		EL	
		-		
			,	
		-		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control: N/A				
3. Potential Emissions: 1.45 lb/hr	5.72 tons/year 4. Synthetically Limited? []				
5. Range of Estimated Fugitive Emissions: N/A	to tons/year				
6. Emission Factor: 0.09 lb/ton dry preheater Reference: Permit No. 0530010-002-2	Mathad Cada, O				
8. Calculation of Emissions (limit to 600 chara Permit 0530010-002-AV	,				
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Emissions unit is equipped with baghouse. No changes in actual or potential emissions are expected or requested.					
Allowable Emissions 1 o	of <u>1</u>				
Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: NA				
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:				
	1.45 lb/hr 5.72 tpy				
5. Method of Compliance (limit to 60 characters): Method 5					
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):					
It is requested that the hourly emissions limitation based on the 150 TPH rolling average preheater feed rate be removed.					

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

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

1.	Visible Emissions Subtype: VE10	Basis for Allowable Opacity: [X] Rule Other	[]
3.	Requested Allowable Opacity:			
	Normal Conditions: 10% Ex	10%		
	Maximum Period of Excess Opacity Allowe	0 min/	hour	
	•			
4.	Method of Compliance: Method 9			
	•			
5.	Visible Emissions Comment (limit to 200 cl	naracters): NESHAP		

I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)

<u>Continuous Monitoring System:</u> Continuous Monitor <u>1</u> of <u>1</u>

1.	Parameter Code: COMS	2. Pollutant(s): Opacity			
3.	CMS Requirement:	[X] Rule []		
Ot:	her				
4.	Monitor Information:				
	Manufacturer:				
	Model Number:				
	Serial Number:				
5.	Installation Date:	6. Performance Specification Test Date	:		
7.	7. Continuous Monitor Comment (limit to 200 characters): None				
			i		

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

[006: Clinker Silos Nos. 1 & 2]

Supplemental Requirements

1. Process Flow Diagram					
[] Attached, Document ID: [] Not Applicable [X] Waiver Requested	i				
On file with DEP					
2. Fuel Analysis or Specification					
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested	ı				
3. Detailed Description of Control Equipment					
[] Attached, Document ID: [] Not Applicable [X] Waiver Requested					
4. Description of Stack Sampling Facilities					
[] Attached, Document ID:[] Not Applicable [X] Waiver Requested					
·					
5. Compliance Test Report					
[] Attached, Document ID:					
Previously submitted, Date:					
[X] Not Applicable					
·					
6. Procedures for Startup and Shutdown					
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested					
7. On and it and 1 Maintenance Plant (a)					
7. Operation and Maintenance Plan (a)					
[] Attached, Document ID: [] Not Applicable [] Waiver Requested					
8. Supplemental Information for Construction Permit Application					
[] Attached, Document ID: [X] Not Applicable					
[] Temenou, Boomism 12 [12] Total pproduct					
9. Other Information Required by Rule or Statute					
[] Attached, Document ID: [X] Not Applicable					
10. Supplemental Requirements Comment:					
(a) – O&M Plan previously submitted					
·					

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
[] Milached, Document ID [M] Not Applicable
15. Acid Rain Part Application (Hard-copy Required)
Acid Rain Part – Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:

[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:
Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:
[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

1.	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).								
[pro	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.	Regi	lated or Unr	egulated	Emissions Unit	? (0	Check one)			
[X] 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.								
3.	Descr	ption of Em	issions U	Jnit Addressed i	n Th	is Section (limit to 60	cha	aracters):	- "-
No. 2 Kiln Feed System									
4.	ID: 013						[] No ID [] ID Unknown		
5.		sions Unit s Code: A	6. Init Dat	ial Startup te:	7.	Emissions Unit Majo Group SIC Code: 32	r	8. Acid Rain Unit	?

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 5 of 8 [013: No. 2 Kiln Feed System]

9. Emissions Unit Comment: (Limit to 500 Characters)

This application requests the Department to remove the 150 TPH rolling average preheater feed rate, while retaining the 165 TPH maximum, and 1,314,000 TPY (based on 150 TPH x 8760 hours). This approach is consistent with the permitting approach used for other cement plants in Florida.

No other changes are requested for this emissions unit.

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 5 of 8 [013: No. 2 Kiln Feed System]

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):
Baghouse H-13
2. Control Device or Method Code(s): 018

Emissions Unit Details

1.	Package Unit: N/A		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating: N/A	MW	
3.	Incinerator Information: N/A		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

DEP Form No. 62-210.900(1) - Form

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate: N/A		mmBtu/hr
2.	Maximum Incineration Rate: N/A	lb/hr	tons/day
3.	Maximum Process or Throughput Rate: 165	TPH dry preheater	feed rate
4.	Maximum Production Rate: N/A		
5.	Requested Maximum Operating Schedule:		
	hours/day		days/week
	weeks/yea	r	8760 hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

This application requests the Department to remove the 150 TPH rolling average preheater feed rate.

The maximum preheater feed rate for the No. 1 Kiln shall not exceed 165 tons per hour (one-hour maximum) and 1,314,000 tons per year (based on 150 TPH and 8760 hours/year).

DEP Form No. 62-210.900(1) - Form

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Title V Core List	
NESHAP Subpart LLL	
-	

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 5 of 8 [013: No. 2 Kiln Feed System]

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Pl Flow Diagram? Baghouse l		2. Emission Po	oint Type Code: 1
3.	Descriptions of Emission Po 100 characters per point): N	•	g this Emissions (Unit for VE Tracking (limit to
4.	ID Numbers or Descriptions	s of Emission Ur	nits with this Emi	ssion Point in Common: N/A
5.	Discharge Type Code: V	6. Stack Height 75 feet	_	
8.	Exit Temperature: 130°F		9. Actual Volumetric Flow Rate: 6000 acfm 10. Water Vapor: 2%	
11.	Maximum Dry Standard Flo 5300 dscfm	w Rate:	12. Nonstack Er	nission Point Height: N/A feet
13.	Emission Point UTM Coord	linates:		
	Zone: 17 E	ast (km): 356.28	0 North	n (km): 3168.450
14.	Emission Point Comment (1	imit to 200 chara	acters): None	

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 5 of 8 [013: No. 2 Kiln Feed System]

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters):				
Raw Material Transfer				
2. Source Classification Code 3-05-006-12	e (SCC):	3. SCC Units:	Tons Transferred	
4. Maximum Hourly Rate: 165	5. Maximum Annual Rate: 1,314,000		6. Estimated Annual Activity Factor: N/A	
7. Maximum % Sulfur: N/A	8. Maximum % Ash: N/A		9. Million Btu per SCC Unit: N/A	
10. Segment Comment (limit to 200 characters): None				

DEP Form No. 62-210.900(1) - Form

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	Secondary Control Device Code	4. Pollutant Regulatory Code
PM	018		EL
)		
,			
331 <u>.</u>			
			
	•		

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section <u>5</u> of <u>8</u> [013: No. 2 Kiln Feed System] Pollutant Detail Information Page <u>1</u> of <u>1</u>

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions:	4. Synthetically	
1.02 lb/hour	4.18 tons/year Limited? []	
5. Range of Estimated Fugitive Emissions: N/A	<u> </u>	
	to tons/year	
6. Emission Factor: 1.02 lb/hour	7. Emissions	
Reference: Permit No. 0530010-002-A	Method Code: 0	
8. Calculation of Emissions (limit to 600 chara Basis 1.02 lb/hour at 8200 hours/year = 4.18 tons/year	,	
Annual hours of operation have since been in		
annual emissions is necessary for this project.		
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):		
Emissions unit is equipped with baghouse. No changes in actual or potential emissions		
are expected or requested.		
Allowable Emissions Allowable Emissions 1 o	of <u>1</u>	
Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: NA	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:	
N/A	1.02 lb/hour 4.18 tons/year	
5. Method of Compliance (limit to 60 character	s): Method 9 in lieu of Method 5	
6. Allowable Emissions Comment (Desc. of Op	perating Method) (limit to 200 characters):	
None		

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 5 of 8 [013: No. 2 Kiln Feed System]

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

2. Basis for Allowable Opacity:

] Other

[X] Rule

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE10

Normal Conditions: 10% Exceptional Conditions: 10%
Maximum Period of Excess Opacity Allowed: 0 min/hour
4. Method of Compliance: Method 9
5. Visible Emissions Comment (limit to 200 characters): NESHAP
Visible Emissions Limitation: Visible Emissions Limitation 2 of 2
1 Visible Emissions Subtrue: VE05 2 Desig for Alloyable Operity
1. Visible Emissions Subtype: VE05 2. Basis for Allowable Opacity: [X] Rule [] Other
<u> </u>
3. Requested Allowable Opacity: Normal Conditions: 5% Exceptional Conditions: 5%
Normal Conditions. 5% Exceptional Conditions. 5%
Mayimum Daried of Eyeasa Onsoity Allawad
Maximum Period of Excess Opacity Allowed: 0 min/hour
Maximum Period of Excess Opacity Allowed: 4. Method of Compliance: Method 9
4. Method of Compliance: Method 9
4. Method of Compliance: Method 9

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 5 of 8 [013: No. 2 Kiln Feed System]

I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)

<u>Co</u>	ontinuous Monitoring System: Continuous	Mo	nitor of	_	
1.	Parameter Code: N/A	2.	Pollutant(s):		
3.	CMS Requirement:	[] Rule	[] Other
4.	Monitor Information:				
	Manufacturer:				
	Model Number:		Serial Numbe	r:	
5.	Installation Date:	6.	Performance Spe	cific	cation Test Date:
7.	Continuous Monitor Comment (limit to 200	cha	racters):		

DEP Form No. 62-210.900(1) - Form

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1		
1.	Process Flow Diagram	·
	 -	_ [] Not Applicable [X] Waiver Requested
	i file with DEP	
2.	Fuel Analysis or Specification	
	[] Attached, Document ID:	_[X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipm	
	Attached, Document ID:	_ [] Not Applicable [X] Waiver Requested
4	D ' ' ' CG' 1 G 1' E '1''	
4.	Description of Stack Sampling Facilitie	
	[] Attached, Document ID:	[X] Not Applicable [] Waiver Requested
5	Compliance Test Report	
٥.	•	
	[] Attached, Document ID:	_
	[] Previously submitted, Date:	
	[X] Not Applicable	
6.	Procedures for Startup and Shutdown	
	[] Attached, Document ID:	[X] Not Applicable [] Waiver Requested
		-
7.	Operation and Maintenance Plan (a)	
7.	Operation and Maintenance Plan (a) [] Attached, Document ID:	[] Not Applicable [] Waiver Requested
	[] Attached, Document ID:	
	[] Attached, Document ID: Supplemental Information for Construct	tion Permit Application
	[] Attached, Document ID:	tion Permit Application
8.	[] Attached, Document ID: Supplemental Information for Construct [] Attached, Document ID: Other Information Required by Rule or	tion Permit Application _ [X] Not Applicable Statute
8.	[] Attached, Document ID: Supplemental Information for Construct [] Attached, Document ID:	tion Permit Application _ [X] Not Applicable Statute
8.9.	Supplemental Information for Construct [] Attached, Document ID: Other Information Required by Rule or [] Attached, Document ID:	tion Permit Application _ [X] Not Applicable Statute
8.9.	[] Attached, Document ID: Supplemental Information for Construct [] Attached, Document ID: Other Information Required by Rule or	tion Permit Application _ [X] Not Applicable Statute
8.9.10.	Supplemental Information for Construct [] Attached, Document ID: Other Information Required by Rule or [] Attached, Document ID: Supplemental Requirements Comment:	tion Permit Application _ [X] Not Applicable Statute
8.9.10.	Supplemental Information for Construct [] Attached, Document ID: Other Information Required by Rule or [] Attached, Document ID:	tion Permit Application _ [X] Not Applicable Statute
8.9.10.	Supplemental Information for Construct [] Attached, Document ID: Other Information Required by Rule or [] Attached, Document ID: Supplemental Requirements Comment:	tion Permit Application _ [X] Not Applicable Statute
8.9.10.	Supplemental Information for Construct [] Attached, Document ID: Other Information Required by Rule or [] Attached, Document ID: Supplemental Requirements Comment:	tion Permit Application _ [X] Not Applicable Statute

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 5 of 8 [013: No. 2 Kiln Feed System]

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part Application (Hard-copy Required)
· [] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:
[] Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

DEP Form No. 62-210.900(1) - Form

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

1.	1. Type of Emissions Unit Addressed in This Section: (Check one)						
[X	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).						
[process or prod		n addresses, as a single emis s which has at least one defi- gitive emissions.				
[-		n addresses, as a single emis s which produce fugitive em				
2.	Regulated or Unr	egulated Emissions Unit	? (Check one)				
[X	[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.						
[] The emissions unit.	unit addressed in this Em	issions Unit Information Sec	ction is an unregulated			
	4. Description of Emissions Unit Addressed in This Section (limit to 60 characters):						
Ce	Cement Kiln No. 2						
4.	4. Emissions Unit Identification Number: [] No ID ID: 014 [] ID Unknown						
5.	Emissions Unit Status Code: A	6. Initial Startup Date: N/A	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit?			

DEP Form No. 62-210.900(1) - Form

12. Emissions Unit Comment: (Limit to 500 Characters)

The application is for the use of waste tires as supplemental fuel in the No. 2 Kiln (EU 014). No change in emissions is expected. The requested tire usage rate is the same as for the No. 1 Kiln, previously permitted to burn tires. Continuous utilization/firing of whole tires as supplemental fuel to coal is requested. The maximum utilization/firing rate is 20.0% of the total Btu heat input, or 2.15 tons per hour.

The application also requests the Department to remove the 150 TPH rolling average preheater feed rate, while retaining the 165 TPH maximum, and 1,314,000 TPY (based on 150 TPH x 8760 hours). This approach is consistent with the permitting approach used for other cement plants in Florida.

No changes in emissions are expected as a result of the requested changes.

DEP Form No. 62-210.900(1) - Form

Emissions Unit Control Equipment

2.	Control Equipment/Method	Description (Limit to 2	200 characters per device of	r method):
----	--------------------------	-------------------------	------------------------------	------------

Baghouse

Particulate emissions from the No. 2 Kiln are controlled by the Fuller Model 10744 Modular (18 unit reverse air dust collector, Baghouse ID E-19).

2. Control Device or Method Code(s): 016

Emissions Unit Details

1.	Package Unit: N/A		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating: N/A	MW	
3.	Incinerator Information: N/A		
	Dwell Temperature:		°F
Dwell Time:			seconds
	Incinerator Afterburner Temperature:		°F

DEP Form No. 62-210.900(1) - Form

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Max	rimum Heat Input Rate:		300 mmBtu/hr
2. Max	imum Incineration Rate: N/A	lb/hr	tons/day
3. Max	imum Process or Throughput Rate: 165	TPH Preheater fee	ed rate
4. Max	imum Production Rate: 90 TPH Clinker	r	
5. Req	uested Maximum Operating Schedule:		
	hours/day		days/week
	weeks/year		8760 hours/year
			·

DEP Form No. 62-210.900(1) - Form

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

	-
Title V Core List	<u> </u>
NESHAP Subpart LLL	
	•
	·

DEP Form No. 62-210.900(1) - Form

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Pl Flow Diagram? No. 2 Kiln		2. Emission Po	oint Type Code: 1				
	3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): N/A							
	4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: N/A							
5.	Discharge Type Code: V	6. Stack Height 105 feet	ht:	7. Exit Diameter: feet				
8.	Exit Temperature: 250°F	9. Actual Volumente Rate: 315,0		10. Water Vapor:	2%			
11.	Maximum Dry Standard Flo 230,000	ow Rate: 0 dscfm	12. Nonstack Er	nission Point Height: 1	N/A feet			
13.	Emission Point UTM Coord	linates:		,				
	Zone: 17 E	ast (km): 356.30	0 North	n (km): 3168.380				
14.	14. Emission Point Comment (limit to 200 characters): None							
			·					
		·						

DEP Form No. 62-210.900(1) - Form

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 7

Segment Description and Ita	<u></u> 508	- <u>-</u>				
1. Segment Description (Process/Fuel Type) (limit to 500 characters):						
Mineral Products: Cement N	Aanufacturing -	- Dry Process: P	'reheater Kiln			
2. Source Classification Code 3-05-006-22	e (SCC):	3. SCC Units:	Tons Processed			
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity			
165	1,31	4,000	Factor: N/A			
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:			
N/A	N	/ A	N/A			
10. Segment Comment (limit t	o 200 characters	s):				
Preheater feed rate 165 TPH maximum 1,314,000 TPY maximum (ba	used on 150 TPH	(x 8760)				

Segment Description and Rate: Segment 2 of 7

Segment Description (Process/Fuel Type) (limit to 500 characters):
 Mineral Products: Cement Manufacturing – Dry Process: Preheater Kiln

2. Source Classification Code (SCC):		3. SCC Units:	To	ns Clinker	
3-05-006-22					
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity
99.0		788	,400		Factor: N/A
7.	Maximum % Sulfur:	8. Maximum	% Ash: N/A	9.	Million Btu per SCC Unit:
N/A					N/A

10. Segment Comment (limit to 200 characters):

Max hourly rate = Max hourly Preheater Rate x 0.60 = 99.0 TPH Annual rate = Annual Preheater Rate x 0.60 = 788,400 TPY

DEP Form No. 62-210.900(1) - Form

[EU 014 - Cement Kiln No. 2]

DEP Form No. 62-210.900(1) - Form

Segment Description and Rate: Segment 3 of 7

1.	Segment Description (Process/Fuel Type) (limit to 500 characters):					
	In-Process Fuel Use: Distillate Oil: Cement Kiln					
2.	Source Classification Code (SCC):	3. SCC Units: 1000 Gallons Burned				

3-90-005-02

4. Maximum Hourly Rate: 5. Maximum Annual Rate: 18536.2

6. Estimated Annual Activity Factor: N/A

7. Maximum % Sulfur: N/A

8. Maximum % Ash: N/A

9. Million Btu per SCC Unit: 141.3

10. Segment Comment (limit to 200 characters): No change requested in this application.

Segment Description and Rate: Segment 4 of 7

1. Segment Description (Process/Fuel Type) (limit to 500 characters):

In-Process Fuel Use: Residual Oil: Cement Kiln

2. Source Classification Code (SCC):
3. SCC Units: 1000 Gallons Burned
3-90-004-02

4. Maximum Hourly Rate: 5. Maximum Annual Rate: 2.0 17660.2

6. Estimated Annual Activity Factor: N/A

7. Maximum % Sulfur: N/A

8. Maximum % Ash: N/A

9. Million Btu per SCC Unit: 148.8

10. Segment Comment (limit to 200 characters): No change requested in this application.

Segment Description and Rate: Segment 5 of 7

Segment Description (Process/Fuel Type) (limit to 500 characters):					
In-Proc	ess Fuel Use: N	atural Gas: Cei	ment Kiln		
Source Classification Code	e (SCC):	3. SCC Units	Million Cubic Feet Burned		
3-90-006-02					
Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity		
0.29	256	3.9	Factor: N/A		
Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit:		
N/A	N/A 1025				
0. Segment Comment (limit to 200 characters): No change requested in this application.					
	Source Classification Code 3-90-006-02 Maximum Hourly Rate: 0.29 Maximum % Sulfur: N/A	In-Process Fuel Use: No. 2000 Source Classification Code (SCC): 3-90-006-02 Maximum Hourly Rate: 0.29 Maximum % Sulfur: N/A 8. Maximum % No. 2000 Sulfur: N/A No. 2000 Sulfur: N/A No. 2000 S	In-Process Fuel Use: Natural Gas: Cer Source Classification Code (SCC): 3-90-006-02 Maximum Hourly Rate: 0.29 Maximum % Sulfur: N/A 8. Maximum % Ash: N/A N/A		

Segment Description and Rate: Segment 6 of 7

1. Segment Description (Pro	1. Segment Description (Process/Fuel Type) (limit to 500 characters):					
In-Proces	ss Fuel Use: Bitu	ıminous Coal:	Cem	ent Kiln		
2. Source Classification Cod	e (SCC):	3. SCC Units	s: To	ns Burned		
3-90-002-01						
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity		
12.0	105	5120		Factor: N/A		
7. Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:		
N/A						
10. Segment Comment (limit to 200 characters): No change requested in this application.						
10. Beginent Comment (innit to 200 characters). No change requested in this application.						

DEP Form No. 62-210.900(1) - Form

Segment Description and Rate: Segment 7 of 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters):

In-Process Fuel Use: Tires

2. Source Classification Code (SCC):

3. SCC Units: Tons Burned

3-90-012-99

4. Maximum Hourly Rate:
2.15

18834

7. Maximum % Sulfur:
N/A

8. Maximum % Ash:
N/A

9. Million Btu per SCC Unit:
N/A

28

Continuous utilization/firing of whole tires as supplemental fuel to coal is requested. The maximum utilization/firing rate is 20.0% of the total Btu heat input, or 2.15 tons per hour.

20% x 300 MMBtu/hr = 60 MMBtu/hr 60 MMBtu/hr ÷ 28 MMBtu/ton = 2.15 TPH

See attached supplemental information.

DEP Form No. 62-210.900(1) - Form

^{10.} Segment Comment (limit to 200 characters):

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM/PM10	016	None	EL
SO2	None	None	EL
NOx	None	None	EL
со	None	None	EL
voc	None	None	EL
DIOX	None	None	EL

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM/PM10	2. Total Percent Efficience 999	. •	
3. Potential Emissions:	_	4. Synthetically	
29.7 lb/hour	118.3 tons/year	Limited? []	
5. Range of Estimated Fugitive Emissions: No	5. Range of Estimated Fugitive Emissions: Not Applicable		
[] 1 [] 2 [] 3	to to:	ns/year	
6. Emission Factor: 0.18 lb/ton dry preheater	feed	7. Emissions	
Reference: Permit No. 0530010-002-A	AV	Method Code: 0	
8. Calculation of Emissions (limit to 600 chara	cters):		
0.18 lb/ton x 165 tons/hr = 29.7 lb/hour @ 1,314,000 tons/yr = 118.3 tons/year			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			
No changes in actual or potential emissions are expected or requested as a result of the requested changes.			

Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code:	2. Future Effective D	ate of Allowable
RULE	Emissions: N/A	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowa	able Emissions:
0.18 lb/ton dry preheater feed	29.7 lb/hour	118.3 tons/year
5. Method of Compliance (limit to 60 characters): Method 5		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		
No changes in allowable emissions are expected or requested as a result of the requested		
changes.		

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section <u>6</u> of <u>8</u> Pollutant Detail Information Page <u>2</u> of <u>6</u>

Potential/Fugitive Emissions

1. Pollutant Emitted: SO2	ted: SO2 2. Total Percent Efficiency of Control:	
	N/A	
3. Potential Emissions:		4. Synthetically
16.5 lb/hour	65.7 tons/year	Limited? []
5. Range of Estimated Fugitive Emissions: N/A	4	
[] 1 [] 2 [] 3	toto:	ns/year
6. Emission Factor: 0.10 lb/ton dry preheater feed rate		7. Emissions
Reference: Permit No. 0530010-002-	AV	Method Code: 0
(a) (c) 1 (d)		
8. Calculation of Emissions (limit to 600 chara	icters):	
0.10 lb/ton x 165 tons/hr = 16.5 lb/hour		
@ 1,314,000 tons/yr = 65.7 tons/year		
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):		
9. Torretain Toternai/Tugitive Emissions Comment (mint to 200 characters).		
No changes in actual or potential emissions a	re expected or requested	l as a result of the
requested changes.	<u> </u>	

Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable	
RULE	Emissions: N/A	
4. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:	
0.10 lb/ton dry preheater feed	16.5 lb/hour 65.7 tons/year	
5. Method of Compliance (limit to 60 characters): Method 6C		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		
No changes in allowable emissions are expected or requested as a result of the requested		
changes.	•	
- -		

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section $\underline{6}$ of $\underline{8}$ Pollutant Detail Information Page $\underline{3}$ of $\underline{6}$

Potential/Fugitive Emissions

1. Pollutant Emitted: NOx	2. Total Percent Efficie	ency of Control:
	N /2	<u> </u>
3. Potential Emissions:		4. Synthetically
283.8 lb/hour	1130.0 tons/year	Limited? []
5. Range of Estimated Fugitive Emissions: N/A	4	
[] 1 [] 2 [] 3	to to:	ns/year
6. Emission Factor: 1.72 lb/ton dry preheater	feed rate	7. Emissions
Reference: Permit No. 0530010-002-A	AV	Method Code: 0
8. Calculation of Emissions (limit to 600 chara	cters):	
1.72 lb/ton x 165 tons/hr = 283.8 lb/hour @ 1,314,000 tons/yr = 1130.0 tons/year		
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	ters):
No changes in actual or potential emissions as requested changes.	re expected or requested	l as a result of the

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

Basis for Allowable Emissions Code: RULE	2. Future Effective D Emissions: N/A	ate of Allowable
3. Requested Allowable Emissions and Units:	4. Equivalent Allowa	ble Emissions:
1.72 lb/ton dry preheater feed	283.8 lb/hour	1130.0 tons/year
5. Method of Compliance (limit to 60 character	<i>.</i>	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		
o. Anowable Emissions Comment (Desc. of Op	(to 200 characters).

DEP Form No. 62-210.900(1) - Form

Pollutant Detail Information Page 4 of 6

Potential/Fugitive Emissions

1.	Pollutant Emitted: CO	2. Total Percent Efficie	ency of Control:
		N/A	4
3.	Potential Emissions:		4. Synthetically
	198.0 lb/hour	788.4 tons/year	Limited? []
5.	Range of Estimated Fugitive Emissions: No	t Applicable	
	[] 1 [] 2 [] 3	to to	ns/year
6.	Emission Factor: 1.20 lb/ton dry preheater	feed	7. Emissions
	Reference: Permit No. 0530010-002-A	AV	Method Code: 0
8.	8. Calculation of Emissions (limit to 600 characters):		
1.20 lb/ton x 165 tons/hour = 198.0 lb/hour @ 1,314,000 tons/yr = 788.4 tons/year			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			
No changes in actual or potential emissions are expected or requested as a result of the requested changes.			

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

1. Basis for Allowable Emissions Code:	2. Future Effective D	ate of Allowable
RULE	Emissions: N/A	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowa	ıble Emissions:
1.20 lb/ton dry preheater feed	198.0 lb/hour	788.4 tons/year
5. Method of Compliance (limit to 60 characters): Method 10		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): No changes in allowable emissions are expected or requested as a result of the requested		
changes.	• • • • • • • • • • • • • • • • • • • •	

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section <u>6</u> of <u>8</u> Pollutant Detail Information Page <u>5</u> of <u>6</u>

Potential/Fugitive Emissions

1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control N/A	:
3. Potential Emissions:	4. Synthetica	lly
11.81 lb/hour	42.9 tons/year Limited?	
5. Range of Estimated Fugitive Emissions: No	ot Applicable	
[] 1 [] 2 [] 3	to tons/year	
6. Emission Factor: 0.09 lb/ton dry preheate	r feed 7. Emissions	
Reference: Permit No. 0530010-002-	-AV Method Co	ode: 0
8. Calculation of Emissions (limit to 600 char	acters):	-
0.09 lb/ton x 165 tons/hour = 14.9 lb/hour @ 1,314,000 tons/yr = 59.1 tons/year		
9. Pollutant Potential/Fugitive Emissions Com	nment (limit to 200 characters):	. 1
No changes in actual or potential emissions are expected or requested as a result of the requested changes.		

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

1. Basis for Allowable Emissions Code:	2. Future Effective D	ate of Allowable
RULE	Emissions: N/A	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowa	ble Emissions:
0.09 lb/ton dry preheater feed	14.9 lb/hour	59.1 tons/year
5. Method of Compliance (limit to 60 characters): Not required		
6. Allowable Emissions Comment (Desc. of Op	erating Method) (limit t	o 200 characters):
6. Allowable Emissions Comment (Desc. of Op	erating Method) (limit t	o 200 characters):
6. Allowable Emissions Comment (Desc. of Op No changes in allowable emissions are expected		,
· · · · · ·		,

DEP Form No. 62-210.900(1) - Form

Potential/Fugitive Emissions

1. Pollutant Emitted: DIOX	2. Total Percent Efficie	ency of Control:
	N /.	A
3. Potential Emissions:		4. Synthetically
0.00000021 lb/hour 0.0000009 to	ns/year	Limited? []
5. Range of Estimated Fugitive Emissions: N/A		
[] 1 [] 2 [] 3		ns/year
6. Emission Factor: 1.7 x 10 ⁻¹⁰ gr/dscf TEQ a	t 7% O ₂	7. Emissions
Reference: MACT		Method Code: 0
8. Calculation of Emissions (limit to 600 chara	cters):	
1.7×10^{-10} gr/dscf x 230000 dscfm x (20.9 – 12.0)/(20.9 – 7.0) x 60 min/hour x 1.0 lb/7000 gr = 0.00000021 lb/hour		
@8760 hours/yr = 0.0000009 tons/year		
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): NESHAP		
		·

<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: N/A
3. Requested Allowable Emissions and Units: 1.7 x 10 ⁻¹⁰ gr/dscf TEQ at 7% O ₂	4. Equivalent Allowable Emissions: 0.00000021 lb/hour 0.0000009 tons/year
5. Method of Compliance (limit to 60 character	rs): Method 23
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): NESHAP Subpart LLL	

DEP Form No. 62-210.900(1) - Form

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

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

1.	Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity:		
		[X] Rule	[] Other	
3.	Requested Allowable Opacity:			
	Normal Conditions: 10% Ex	ceptional Conditions:	10%	
	Maximum Period of Excess Opacity Allowe	ed:	0 min/hour	
4.	Method of Compliance: COM & Method 9			
5.	Visible Emissions Comment (limit to 200 c	haracters): None		
			•	

DEP Form No. 62-210.900(1) - Form

I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 1 of 3

1. Parameter Code: COM	2. Pollutant(s): Opacity				
a cyta p					
3. CMS Requirement:	[X] Rule [] Other				
4. Monitor Information:					
Manufacturer:					
Model Number:	Serial Number:				
5. Installation Date:	6. Performance Specification Test Date:				
	-				
7. Continuous Monitor Comment (limit to 200	characters): None				
Continuous Monitoring System: Continuous	Monitor $\underline{2}$ of $\underline{3}$				
1. Parameter Code: CEM	2. Pollutant(s): CO and/or O ₂				
3. CMS Requirement:	[] Rule [X] Other				
4. Monitor Information:					
Manufacturer:					
Model Number:	Serial Number:				
5. Installation Date:	6. Performance Specification Test Date:				
3. Installation Date.	o. Terrormance specification rest Date.				
7. Continuous Monitor Comment (limit to 200	characters):				
	,				
Process monitors, not for compliance					
	-				
Continuous Monitoring System: Continuous	Monitor 3 of 3				
1. Parameter Code: TEMP	2. Pollutant(s): Temperature				
0.000					
3. CMS Requirement:	[X] Rule [] Other				
4. Monitor Information:					
Manufacturer:					
Model Number:	Serial Number:				
5. Installation Date:	6. Performance Specification Test Date:				
7. Continuous Monitor Comment (limit to 200	characters): NESHAP Subpart LLL				
	-				

DEP Form No. 62-210.900(1) - Form

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram
[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
On file with DEP
2. Fuel Analysis or Specification
[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment
[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
On file with DEP
4. Description of Stack Sampling Facilities
[] Attached, Document ID: [] Not Applicable [X] Waiver Requested On file with DEP
5. Compliance Test Report
[] Attached, Document ID:
[] Previously submitted, Date:
[X] Not Applicable
[1-] 1.001.1ppouc.
6. Procedures for Startup and Shutdown
[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7. Operation and Maintenance Plan (a)
[] Attached, Document ID: [] Not Applicable [] Waiver Requested
8. Supplemental Information for Construction Permit Application
[] Attached, Document ID: [X] Not Applicable
9. Other Information Required by Rule or Statute
[] Attached, Document ID: [X] Not Applicable
10. Supplemental Requirements Comment:
10. Supplemental Requirements Comment.
(a) – O&M Plan previously submitted.

DEP Form No. 62-210.900(1) - Form

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation					
[] Attached, Document ID: [X] Not Applicable					
12. Alternative Modes of Operation (Emissions Trading)					
[] Attached, Document ID: [X] Not Applicable					
13. Identification of Additional Applicable Requirements					
[] Attached, Document ID: [X] Not Applicable					
14. Compliance Assurance Monitoring Plan					
[] Attached, Document ID: [X] Not Applicable					
15. Acid Rain Part Application (Hard-copy Required)					
Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))					
Attached, Document ID:					
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)					
Attached, Document ID:					
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.)					
Attached, Document ID:					
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)					
Attached, Document ID:					
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)					
Attached, Document ID:					
Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)					
Attached, Document ID:					
[X] Not Applicable					
·					

DEP Form No. 62-210.900(1) - Form

III. EMISSIONS UNIT INFORMATION

[015: Clinker Cooler No. 2]

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

_	_				~	. (61 1)		
1.	. Type of Emissions Unit Addressed in This Section: (Check one)							
[X	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.	2. Regulated or Unregulated Emissions Unit? (Check one)							
[X	[X] 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.							
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):								
Clinker Cooler No. 2								
4.	. Emissions Unit Identification Number: [] No ID ID: 015 [] ID Unknown				L -			
5.		missions Unit tatus Code: A	6.	Initial Startup Date:	7.	Emissions Unit Major Group SIC Code: 32	r	8. Acid Rain Unit?

DEP Form No. 62-210.900(1) - Form

9. Emissions Unit Comment: (Limit to 500 Characters)

This application requests the Department to remove the 150 TPH rolling average preheater feed rate, while retaining the 165 TPH maximum, and 1,314,000 TPY (based on 150 TPH x 8760 hours). This approach is consistent with the permitting approach used for other cement plants in Florida.

No other changes are requested for this emissions unit.

DEP Form No. 62-210.900(1) - Form

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):				
Baghouse K-09				
\cdot				

Emissions Unit Details

2. Control Device or Method Code(s): 016

1.	Package Unit: N/A		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating: N/A	MW	
3.	Incinerator Information: N/A	-	
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

DEP Form No. 62-210.900(1) - Form

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate: N/A		mmBtu/hr
2.	Maximum Incineration Rate: N/A	lb/hr	tons/day
3.	Maximum Process or Throughput Rate: 99 TPH	I and 788,400 T	PY Clinker
4.	Maximum Production Rate: N/A		
5.	Requested Maximum Operating Schedule:		
	hours/day		days/week
	weeks/year		8760 hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

This application requests the Department to remove the 150 TPH rolling average preheater feed rate, as a function of clinker cooler emissions.

Clinker Production is a function of Preheater Feed

Max hourly rate = Max hourly Preheater Rate x 0.60 = 99.0 TPH Annual rate = Annual Preheater Rate x 0.60 = 788,400 TPY

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

[015: Clinker Cooler No. 2]

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Title V Core List	
NESHAP Subpart LLL	
·	·
	,

DEP Form No. 62-210.900(1) - Form

[015: Clinker Cooler No. 2]

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Baghouse K-09		2. Emission Point Type Code: 1		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): N/A				
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: N/A				N/A
5. Discharge Type Code: V	6. Stack Height: 90 feet		7. Exit Diameter: 9.7 feet	
8. Exit Temperature: 225°F	9. Actual Volument Rate: 76000	umetric Flow 0 acfm	10. Water Vapor: 2%	
11. Maximum Dry Standard Flow Rate: 57400 dscfm		12. Nonstack Emission Point Height: N/A feet		
13. Emission Point UTM Coord	linates:			
Zone: 17 E	ast (km): 356.28	0 North	n (km): 3168.560	
14. Emission Point Comment (l	imit to 200 chara	acters): None		

DEP Form No. 62-210.900(1) - Form

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1.	Segment Description (Pro	cess	/Fuel Type)	(limit to 500 cha	aract	ers):
	Mineral Products: C	Ceme	ent Manufa	cturing – Dry P	roce	ess: Clinker Cooler
2.	Source Classification Cod	e (So	CC):	3. SCC Units	To	ns Processed .
	3-05-006-14					
4.	Maximum Hourly Rate:	5.	Maximum .	Annual Rate:	6.	Estimated Annual Activity
	99	788400		400		Factor: N/A
7.	Maximum % Sulfur:	8.	Maximum ⁶	% Ash: N/A	9.	Million Btu per SCC Unit:
	N/A			_		N/A
10.	Segment Comment (limit	to 20	00 characters): None		
	-		-			

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	Secondary Control Device Code	Pollutant Regulatory Code
PM	016		EL
-	_		
		-	

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section <u>7</u>of <u>8</u>[015: Clinker Cooler No. 2] Pollutant Detail Information Page <u>1</u> of <u>1</u>

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficient	ency of Control: N/A			
3. Potential Emissions: 14.9 lb/hour 5. Range of Estimated Fugitive Emissions: N/A		4. Synthetically Limited? []			
[] 1 [] 2 [] 3 6. Emission Factor: 0.09 lb/ton dry preheater Reference: Permit No. 0530010-002-A	feed	7. Emissions Method Code: 0			
 8. Calculation of Emissions (limit to 600 chara) 0.09 lb/ton x 165 TPH = 14.9 lb/hr 0.09 lb/ton at 1,314,000 TPY = 59.1 tons/year 					
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Emissions unit is equipped with baghouse. No changes in actual or potential emissions are expected or requested.					
Allowable Emissions 1 o	of <u>1</u>				
Basis for Allowable Emissions Code: RULE	2. Future Effective Da Emissions: NA	ate of Allowable			
3. Requested Allowable Emissions and Units: 0.09 lb/ton dry preheater feed	4. Equivalent Allowal 14.9 lb/hour	ble Emissions: 59.1 tons/year			
5. Method of Compliance (limit to 60 character	rs): Method 5				
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): It is requested that the hourly emissions limitation based on the 150 TPH rolling average preheater feed rate be removed.					

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 7 of 8 [015: Clinker Cooler No. 2]

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

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

1.	Visible Emissions Subtype: VE10	2. Basis for Allowable O	pacity:
		[X] Rule	[] Other
3.	Requested Allowable Opacity:	·	
	Normal Conditions: 10% Ex	ceptional Conditions:	10%
	Maximum Period of Excess Opacity Allowe	ed:	0 min/hour
4.	Method of Compliance: Method 9		
5.	Visible Emissions Comment (limit to 200 cl	haracters): NESHAP	

DEP Form No. 62-210.900(1) - Form

I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 1 of 1.

1.	Parameter Code: COMS	2. Pollutant(s): Opacity
3.	CMS Requirement:	[X] Rule [] Other
4.	Monitor Information:	
	Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment (limit to 200	characters): None
	·	

DEP Form No. 62-210.900(1) - Form

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1.	Process Flow Diagram
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
Oı	n file with DEP
2.	Fuel Analysis or Specification
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
5.	Compliance Test Report
	[] Attached, Document ID:
	Previously submitted, Date:
	[X] Not Applicable
-	Due and times for Ctarter and Charter
Ο.	Procedures for Startup and Shutdown [V] Not Applicable [] Weiver Requested
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan (a)
	[] Attached, Document ID: [] Not Applicable [] Waiver Requested
8.	Supplemental Information for Construction Permit Application
	[] Attached, Document ID: [X] Not Applicable
0	Other Information Dequired by Dule or Statute
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable
10.	Supplemental Requirements Comment:
(a)	- O&M Plan previously submitted.
, ,	

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 7of 8 [015: Clinker Cooler No. 2]

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part Application (Hard-copy Required)
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

DEP Form No. 62-210.900(1) - Form

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

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. Regulated or Unregulated Emissions Unit? (Check one)			
[X] 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.			
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Clinker Silo No. 3			
4. Emissions Unit Identification Number: [016]			
5. Emissions Unit Status Code: A Date: 7. Emissions Unit Major Group SIC Code: 32 8. Acid Rain Unit?			
9. Emissions Unit Comment: (Limit to 500 Characters)			
This application requests the Department to remove the 150 TPH rolling average preheater feed rate, while retaining the 165 TPH maximum, and adding 1,314,000 TPY (based on 150 TPH x 8760 hours). This approach is consistent with the permitting approach used for other cement plants in Florida. No other changes are requested for this emissions unit.			
two other changes are requested for this emissions unit.			

٥F

٥F

seconds

Emissions Unit Control Equipment

1.	Control Equipment/Method Description (Limit to 200 characters per device or method):
B	aghouse L-07
2.	Control Device or Method Code(s): 016
E	missions Unit Details
1.	Package Unit: N/A
	Manufacturer: Model Number:
2.	Generator Nameplate Rating: N/A MW
3.	Incinerator Information: N/A

Dwell Temperature:

Incinerator Afterburner Temperature:

Dwell Time:

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

	1.	Maximum	Heat	Input	Rate:	N/A
--	----	---------	------	-------	-------	-----

2. Maximum Incineration Rate: N/A

lb/hr

3. Maximum Process or Throughput Rate: 99 TPH and 788,400 TPY Clinker

4. Maximum Production Rate: N/A

5. Requested Maximum Operating Schedule:

hours/day

days/week

weeks/year

8760 hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

This application requests the Department to remove the 150 TPH rolling average preheater feed rate, as a function of clinker cooler emissions.

Clinker production is a function of preheater feed:

Max hourly rate = Max hourly Preheater Rate x 0.60 = 99.0 TPH Annual rate = Annual Preheater Rate x 0.60 = 788,400 TPY

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Title V Core List	
NESHAP Subpart LLL	
	·
·	

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

	1. Identification of Point on Plot Plan or Flow Diagram? Baghouse L-07			oint Type Code: 1	
3.	Descriptions of Emission Policy 100 characters per point): N	_	g this Emissions l	Jnit for VE Tracking (limit to	
4.	ID Numbers or Description	s of Emission Ui	nits with this Emi	ssion Point in Common: N/A .	
5.	Discharge Type Code: V	6. Stack Heig 77 feet	ht:	7. Exit Diameter: 2.5 ft	
8.	Exit Temperature: 100	9. Actual Vol Rate: 1500		10. Water Vapor: 2%	
11.	11. Maximum Dry Standard Flow Rate: 12. Nonstack Emission Point Height: N/A feet				
13.	Emission Point UTM Coord	linates:			
	Zone: 17	ast (km): 356.25	0 North	n (km): 3168.560	
14.	Emission Point Comment (l	imit to 200 char	acters): None		

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Prod	cess/Fuel Type)	(limit to 500 cha	aracters):		
Mineral Products: C	Mineral Products: Cement Manufacturing - Dry Process: Clinker Storage				
2. Source Classification Cod-	e (SCC):	3. SCC Units	: Tons Processed		
3-05-006-14					
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity		
99	788	400	Factor: N/A		
7. Maximum % Sulfur:	8. Maximum	% Ash: N/A	9. Million Btu per SCC Unit:		
N/A			N/A		
10. Segment Comment (limit t	to 200 characters): None			

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	Secondary Control Device Code	4. Pollutant Regulatory Code
PM	016		EL
	-		
			-

[016: Clinker Silo No. 3]

Pollutant Detail Information Page 1 of 1

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1 Otentian Fugitive Emissions			
1. Pollutant Emitted: PM	2. To	otal Percent Efficie	ency of Control: N/A
3. Potential Emissions:			4. Synthetically
1.45 lb/hr	5	5.95 ton/year	Limited? []
5. Range of Estimated Fugitive Emissions: N/A		<u> </u>	
		to to	ns/year
6. Emission Factor			7. Emissions
7.			Method Code: 0
Reference: Permit No. 0530010-002-A	AV		
8. Calculation of Emissions (limit to 600 chara	cters):		
Permit 0530010-002-AV			
9. Pollutant Potential/Fugitive Emissions Comm	nent (li	imit to 200 charact	ers):
Emissions unit is equipped with baghouse. No are expected or requested.	o chan	ges in actual or po	otential emissions
Allowable Emissions Allowable Emissions 1 o	of <u>1</u>		
1. Basis for Allowable Emissions Code:	2. F	Future Effective Da	te of Allowable
RULE		Emissions: NA	
3. Requested Allowable Emissions and Units:	4. E	Equivalent Allowab	ole Emissions:
		1.45 lb/hr	5.95 tpy
5. Method of Compliance (limit to 60 character	rs): Me	ethod 5	
6. Allowable Emissions Comment (Desc. of Op	perating	g Method) (limit to	200 characters):
It is requested that the hourly emissions limitation based on the 150 TPH rolling average preheater feed rate be removed.			

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

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

1.	**	. Basis for Allowable Opacity: [X] Rule Other	[]
3.	Requested Allowable Opacity:			ĺ
	Normal Conditions: 10% Exce	ptional Conditions:	10%	
	Maximum Period of Excess Opacity Allowed:		0 min/hour	
4.	Method of Compliance: Method 9			
5.	Visible Emissions Comment (limit to 200 char	acters): NESHAP		
				- 1

I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 1 of 1

[]
	_
est Da	te:
	est Da

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1.	Process Flow Diagram
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
Or	n file with DEP
2.	Fuel Analysis or Specification
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
5.	Compliance Test Report
	[] Attached, Document ID:
	Previously submitted, Date:
	[X] Not Applicable
6	Procedures for Startup and Shutdown
υ.	•
0.	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a)
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7.	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan (a) [] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application
7.	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan (a) [] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application
7.	Operation and Maintenance Plan (a) [] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable
7.	Operation and Maintenance Plan (a) [] Attached, Document ID: [X] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable
7.	Operation and Maintenance Plan (a) [] Attached, Document ID: [X] Not Applicable [] Waiver Requested Operation and Maintenance Plan (a) [] Attached, Document ID: [] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute
7. 8. 9.	Operation and Maintenance Plan (a) [] Attached, Document ID: [X] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable 10. Supplemental Requirements Comment:
7. 8. 9.	Operation and Maintenance Plan (a) [] Attached, Document ID: [X] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable
7. 8. 9.	Operation and Maintenance Plan (a) [] Attached, Document ID: [X] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable 10. Supplemental Requirements Comment:
7. 8. 9.	Operation and Maintenance Plan (a) [] Attached, Document ID: [X] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable 10. Supplemental Requirements Comment:
7. 8. 9.	Operation and Maintenance Plan (a) [] Attached, Document ID: [X] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable 10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation [] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part Application (Hard-copy Required)
[] Acid Rain Part – Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable