Department of Environmental Protection

Division of Air Resources Management

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: **CEMEX Cement, Inc.**	
2. Site Name: **Brooksville Plant**	
3. Facility Identification Number: **0530010**	[ ] Unknown
4. Facility Location: Street Address or Other Locator: **1630 Ponce DeLeon Boulevard** City: **Brooksville** County: **Hernando** Zip Code: **34601**	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Steven C. Cullen, PE – Senior Project Engineer**	
2. Application Contact Mailing Address: Organization/Firm: **Koogler & Associates** Street Address: **4014 NW 13th Street** City: **Gainesville** State: **Florida** Zip Code: **32609**	
3. Application Contact Telephone Numbers: Telephone: **(352) 377-5822** Fax: **(352) 377-7158**	

Application Processing Information (DEP Use)

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

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, as revised (through project 009)

[ ] 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 Representative or Responsible Official:
   Stephen R. Walser – Plant Manager

2. Owner/Authorized Representative or Responsible Official 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 Responsible Official Telephone Numbers:
   Telephone: **(352) 796-7241** Fax: **(352) 754-9836**

4. Owner/Authorized Representative or Responsible Official Statement:

   I, the undersigned, am the owner or authorized representative(check here [ ], if so) or the responsible official (check here [**X**], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

   Steven R. Walser — Signature
   11/20/02 — Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **Steven C. Cullen, PE**
   Registration Number: **45188**

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

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

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.

Signature

11/19/2002
Date

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
-002	No. 1 Kiln Feed System (Baghouse D-31)		N/A
-003	Cement Kiln No. 1 (Baghouse E-55)		
-004	Clinker Cooler No. 1 (Baghouse F-18)		
-013	No. 2 Kiln Feed System (Baghouse H-13)		
-014	Cement Kiln No. 2 (Baghouse E-19)		
-015	Clinker Cooler No. 2 (Baghouse K-09)		

Application Processing Fee

Check one: [ ] Attached - Amount: _____ [X] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

The project has four 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 2.14 tons per hour.**

2. **A request for Title V Permit Revision for the Department to review and approve the facility's Operation and Maintenance (O&M) Plan.**

3. **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). This approach was discussed on February 2, 2002 in Tallahassee, by Jeet Gill (CEMEX), Charlie Walz (CEMEX), John Koogler (K&A), Al Linero (DEP), Clair Fancy (DEP), and Tom Ellison (DEP-SWD).**

4. **A request for the use of petroleum coke as an alternative fuel in both kilns.**

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: 1**2 months after commencement**

Application Comment

None

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: **17** East (km): **356.9** North (km): **3169.0**			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): **28/38/34** Longitude (DD/MM/SS): **82/28/25**			
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **32**	6. Facility SIC(s): **3241**
7. Facility Comment (limit to 500 characters): **None**			

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**

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	
NESHAP Subpart LLL	

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
PM	**A**				
PM10	**A**				
NOx	**A**				
SO2	**A**				
CO	**A**				
VOC	**A**				

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [ ] Attached, Document ID:_____ [ ] Not Applicable [**X**] Waiver Requested **On file with DEP**
2. Facility Plot Plan: [ ] Attached, Document ID:_____ [ ] Not Applicable [**X**] Waiver Requested **On file with DEP**
3. Process Flow Diagram(s): [ ] Attached, Document ID:_____ [ ] Not Applicable [**X**] Waiver Requested **On 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**

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

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):
No. 1 Kiln Feed System

4. Emissions Unit Identification Number:
ID: **002**
[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code: **A**	6. Initial Startup 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 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.

Emissions Unit Control Equipment

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

Baghouse 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

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/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).

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 D-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: **75** feet	7. Exit Diameter: **1.7** feet
8. Exit Temperature: **130**°F	9. Actual Volumetric Flow Rate: **10000** acfm	10. Water Vapor: **2%**
11. Maximum Dry Standard Flow Rate: **8800** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: Zone: **17** East (km): **356.240** North (km): **3168.440**		
14. Emission Point Comment (limit to 200 characters): **None**		

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 (SCC): **3-05-006-12**	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**		

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	**018**		**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: **1.02** lb/hour **4.47** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **N/A** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **1.02 lb/hour** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **1.02 lb/hour at 8760 hours/year = 4.47 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 Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **N/A**	4. Equivalent Allowable Emissions: **1.02** lb/hour **4.47** tons/year
5. Method of Compliance (limit to 60 characters): **Method 9 in lieu of Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **None**	

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%** 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 Subtype: **VE05**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **5%** Exceptional Conditions: **5%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Rule 62-297, FAC** **Alternative opacity limitation in lieu of particulate matter stack test.**	

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 characters):	

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:_____ [**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:_____ [**X**] Not Applicable [ ] 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. Operation and Maintenance Plan [**X**] Attached, Document ID: **O&M Plan** [ ] 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: **None**

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

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):
Cement Kiln No. 1

4. Emissions Unit Identification Number:
ID: **003**
[ ] No ID
[ ] 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? [ ]

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 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.

This application also requests the use of petroleum coke as an alternative fuel.

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

Emissions Unit Control Equipment

1. 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

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 feed rate**		
4. Maximum Production Rate: **90 TPH Clinker**		
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 application also requests the use of petroleum coke as an alternative fuel, not to exceed 300 mmBtu/hr.

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? **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 of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **V**	6. Stack Height: **150** feet	7. Exit Diameter: **13** feet
8. Exit Temperature: **250**°F	9. Actual Volumetric Flow Rate: **315,000** acfm	10. Water Vapor: **2**%
11. Maximum Dry Standard Flow Rate: **230,000** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: Zone: **17** East (km): **356.250** North (km): **3168.370**		
14. Emission Point Comment (limit to 200 characters): **None**		

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

Segment Description and Rate: Segment 1 of 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Mineral Products: Cement Manufacturing – Dry Process: Preheater Kiln**		
2. Source Classification Code (SCC): **3-05-006-22**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **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): **Preheater feed rate** **165 TPH maximum** **1,314,000 TPY maximum** (based on 150 TPH x 8760)		

Segment Description and Rate: Segment 2 of 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Mineral Products: Cement Manufacturing – Dry Process: Preheater Kiln**		
2. Source Classification Code (SCC): **3-05-006-22**	3. SCC Units: **Tons Clinker**	
4. Maximum Hourly Rate: **90.0**	5. Maximum Annual Rate: **788,400**	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): **No change requested in this application.**		

Segment Description and Rate: Segment 3 of 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **In-Process Fuel Use: Distillate Oil: Cement Kiln**		
2. Source Classification Code (SCC): **3-90-005-02**	3. SCC Units: **1000 Gallons Burned**	
4. Maximum Hourly Rate: **2.1**	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 8

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 Annual Rate: **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 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **In-Process Fuel Use: Natural Gas: Cement Kiln**		
2. Source Classification Code (SCC): **3-90-006-02**	3. SCC Units: **Million Cubic Feet Burned**	
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 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **In-Process Fuel Use: Bituminous Coal: Cement Kiln**		
2. Source Classification Code (SCC): **3-90-002-01**	3. SCC Units: **Tons Burned**	
4. Maximum Hourly Rate: **12.0**	5. Maximum Annual Rate: **105120**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **25**
10. Segment Comment (limit to 200 characters): **No change requested in this application.**		

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): **3-90-012-99**	3. SCC Units: **Tons Burned**	
4. Maximum Hourly Rate: **2.14**	5. Maximum Annual Rate: **18746.4**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **28**
10. Segment Comment (limit to 200 characters): **No change requested in this application.**		

Segment Description and Rate: Segment 8 of 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **In-Process Fuel Use: Petroleum coke**		
2. Source Classification Code (SCC): **3-90-008-99**	3. SCC Units: **Tons Burned**	
4. Maximum Hourly Rate: **10**	5. Maximum Annual Rate: **87600**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **30**
10. Segment Comment (limit to 200 characters): **Petroleum coke requested as an alternative fuel.** **300 MMBtu/hr ÷ 30 MMBtu/ton = 10 TPH**		

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**
CO	**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 Efficiency of Control: **99%**
3. Potential Emissions: **29.7** lb/hour **118.3** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **Not Applicable** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.18 lb/ton dry preheater feed** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **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): **Emissions unit is equipped with baghouse. No changes in actual or potential emissions are expected or requested.**	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.18 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **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 requested.**	

Potential/Fugitive Emissions

1. Pollutant Emitted: **SO2**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **16.5** lb/hour **65.7** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **N/A** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.10 lb/ton dry preheater feed rate** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **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 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.10 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **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.**	

Potential/Fugitive Emissions

1. Pollutant Emitted: **NOx**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **301.9** lb/hour **1202.3** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **N/A** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **1.83 lb/ton dry preheater feed rate** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **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 Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **1.83 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **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.**	

Potential/Fugitive Emissions

1. Pollutant Emitted: **CO**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **198.0** lb/hour **788.4** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **Not Applicable** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **1.20 lb/ton dry preheater feed** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**

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.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **1.20 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **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): **None**	

Potential/Fugitive Emissions

1. Pollutant Emitted: **VOC**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **14.9** lb/hour **59.1** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **Not Applicable** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.09 lb/ton dry preheater feed** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **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 Comment (limit to 200 characters): **No changes in actual or potential emissions are expected or requested.**	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.09 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **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**	

Potential/Fugitive Emissions

1. Pollutant Emitted: **DIOX**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **0.00000021** lb/hour **0.0000009** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **N/A** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **1.7 x 10^{-10} gr/dscf TEQ at 7% O_2** Reference: **MACT**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **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**	

Allowable Emissions Allowable Emissions 1 of 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 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%** 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): **None**	

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**
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 2 of 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:
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**
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**	

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

6. Procedures for Startup and Shutdown
   [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested

7. Operation and Maintenance Plan
   [**X**] Attached, Document ID: **O&M Plan** [ ] 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: **None**

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

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 Cooler No. 1

4. Emissions Unit Identification Number:
ID: **004**
[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code: **A**	6. Initial Startup 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 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.

Emissions Unit Control Equipment

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

Baghouse F-18

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

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: **90 TPH 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.

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 F-18**	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	7. Exit Diameter: **7.5** feet
8. Exit Temperature: **225**°F	9. Actual Volumetric Flow Rate: **76000** 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 Coordinates: Zone: **17** East (km): **356.250** North (km): **3168.560**		
14. Emission Point Comment (limit to 200 characters): **None**		

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 Cooler**		
2. Source Classification Code (SCC): **3-05-006-14**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **90**	5. Maximum Annual Rate: **788400**	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**		

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	**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: **14.9** lb/hour **59.1** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **N/A** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.09 lb/ton dry preheater feed** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **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 Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.09 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **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.**	

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%** 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**	

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**	

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:_____ [**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 [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [**X**] Attached, Document ID: **O&M Plan** [ ] 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: **None**

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

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):
No. 2 Kiln Feed System

4. Emissions Unit Identification Number:
ID: **013**
[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code: **A**	6. Initial Startup 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 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.

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

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/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).

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 H-13**	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: **75** feet	7. Exit Diameter: **1.4** feet
8. Exit Temperature: **130°F**	9. Actual Volumetric Flow Rate: **6000** acfm	10. Water Vapor: **2%**
11. Maximum Dry Standard Flow Rate: **5300** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: Zone: **17** East (km): **356.280** North (km): **3168.450**		
14. Emission Point Comment (limit to 200 characters): **None**		

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 (SCC): **3-05-006-12**	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**		

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	**018**		**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: **1.02** lb/hour **4.18** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **N/A** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **1.02 lb/hour** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **Basis** **1.02 lb/hour at 8200 hours/year = 4.18 tons/year** **Annual hours of operation have since been increased to 8760, however, no increase 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 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **N/A**	4. Equivalent Allowable Emissions: **1.02** lb/hour **4.18** tons/year
5. Method of Compliance (limit to 60 characters): **Method 9 in lieu of Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **None**	

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%** 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 Subtype: **VE05**	2. Basis for Allowable Opacity: [**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **5%** Exceptional Conditions: **5%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Rule 62-297, FAC** **Alternative opacity limitation in lieu of particulate matter stack test.**	

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 characters):	

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:_____ [**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:_____ [**X**] Not Applicable [ ] 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. Operation and Maintenance Plan
   [**X**] Attached, Document ID: **O&M Plan** [ ] 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: **None**

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

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.

4. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Cement Kiln No. 2

4. Emissions Unit Identification Number:
ID: **014**
[ ] No ID
[ ] 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? [ ]

10. 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 2.14 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 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.

This application also requests the use of petroleum coke as an alternative fuel.

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

Emissions Unit Control Equipment

2. Control Equipment/Method Description (Limit to 200 characters per device or 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

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 feed rate**			
4. Maximum Production Rate: **90 TPH Clinker**			
5. Requested Maximum Operating Schedule:			
	hours/day		days/week
	weeks/year		**8760** hours/year
7. Operating Capacity/Schedule Comment (limit to 200 characters): **None**			

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? **No. 2 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 of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **V**	6. Stack Height: **105** feet	7. Exit Diameter: feet
8. Exit Temperature: **250**°F	9. Actual Volumetric Flow Rate: **315,000** acfm	10. Water Vapor: **2**%
11. Maximum Dry Standard Flow Rate: **230,000** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: Zone: **17** East (km): **356.300** North (km): **3168.380**		
14. Emission Point Comment (limit to 200 characters): **None**		

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

Segment Description and Rate: Segment 1 of 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Mineral Products: Cement Manufacturing – Dry Process: Preheater Kiln**		
2. Source Classification Code (SCC): **3-05-006-22**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **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): **Preheater feed rate** **165 TPH maximum** **1,314,000 TPY maximum** (based on 150 TPH x 8760)		

Segment Description and Rate: Segment 2 of 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Mineral Products: Cement Manufacturing – Dry Process: Preheater Kiln**		
2. Source Classification Code (SCC): **3-05-006-22**	3. SCC Units: **Tons Clinker**	
4. Maximum Hourly Rate: **90.0**	5. Maximum Annual Rate: **788,400**	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): **No change requested in this application.**		

Segment Description and Rate: Segment 3 of 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **In-Process Fuel Use: Distillate Oil: Cement Kiln**		
2. Source Classification Code (SCC): **3-90-005-02**	3. SCC Units: **1000 Gallons Burned**	
4. Maximum Hourly Rate: **2.1**	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 8

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 Annual Rate: **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 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **In-Process Fuel Use: Natural Gas: Cement Kiln**		
2. Source Classification Code (SCC): **3-90-006-02**	3. SCC Units: **Million Cubic Feet Burned**	
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 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **In-Process Fuel Use: Bituminous Coal: Cement Kiln**		
2. Source Classification Code (SCC): **3-90-002-01**	3. SCC Units: **Tons Burned**	
4. Maximum Hourly Rate: **12.0**	5. Maximum Annual Rate: **105120**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **25**
10. Segment Comment (limit to 200 characters): **No change requested in this application.**		

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): **3-90-012-99**	3. SCC Units: **Tons Burned**	
4. Maximum Hourly Rate: **2.14**	5. Maximum Annual Rate: **18746.4**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **28**
10. Segment Comment (limit to 200 characters): **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 2.14 tons per hour.** **20% x 300 MMBtu/hr = 60 MMBtu/hr** **60 MMBtu/hr ÷ 28 MMBtu/ton = 2.14 TPH**		

Segment Description and Rate: Segment 8 of 8

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **In-Process Fuel Use: Petroleum coke**		
2. Source Classification Code (SCC): **3-90-008-99**	3. SCC Units: **Tons Burned**	
4. Maximum Hourly Rate: **10**	5. Maximum Annual Rate: **87600**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **30**
10. Segment Comment (limit to 200 characters): **Petroleum coke requested as an alternative fuel.** **300 MMBtu/hr ÷ 30 MMBtu/ton = 10 TPH**		

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**
CO	**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 Efficiency of Control: **99%**
3. Potential Emissions: **29.7** lb/hour **118.3** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **Not Applicable** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.18 lb/ton dry preheater feed** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **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 Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.18 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **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.**	

Potential/Fugitive Emissions

1. Pollutant Emitted: **SO2**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **16.5** lb/hour **65.7** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **N/A** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.10 lb/ton dry preheater feed rate** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **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 as a result of the requested changes.**	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **N/A**
4. Requested Allowable Emissions and Units: **0.10 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **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.**	

Potential/Fugitive Emissions

1. Pollutant Emitted: **NOx**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **283.8** lb/hour **1130.0** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **N/A** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **1.72 lb/ton dry preheater feed rate** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**

8. Calculation of Emissions (limit to 600 characters):

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 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 Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **1.72 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **283.8** lb/hour **1130.0** 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 expected or requested as a result of the requested changes.

Potential/Fugitive Emissions

1. Pollutant Emitted: **CO**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **198.0** lb/hour **788.4** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **Not Applicable** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **1.20 lb/ton dry preheater feed** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**
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.**	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **1.20 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **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.**	

Potential/Fugitive Emissions

1. Pollutant Emitted: **VOC**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **11.81** lb/hour **42.9** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **Not Applicable** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.09 lb/ton dry preheater feed** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **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 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 Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.09 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **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): **No changes in allowable emissions are expected or requested as a result of the requested changes.**	

Potential/Fugitive Emissions

1. Pollutant Emitted: **DIOX**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **0.00000021** lb/hour **0.0000009** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **N/A** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **1.7 x 10^{-10} gr/dscf TEQ at 7% O_2** Reference: **MACT**	7. Emissions Method Code: **0**
8. Calculation of Emissions (limit to 600 characters): **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**	

Allowable Emissions Allowable Emissions 1 of 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 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%** Exceptional Conditions: **10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **COM & Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **None**	

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**
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 2 of 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:
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**
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**	

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
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [**X**] Attached, Document ID: **O&M Plan** [ ] 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: **None**

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

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 Cooler No. 2

4. Emissions Unit Identification Number:
ID: **015**
[ ] No ID
[ ] ID Unknown

5. Emissions Unit Status Code: **A**	6. Initial Startup 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 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.

Emissions Unit Control Equipment

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

Baghouse K-09

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

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: **90 TPH 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.		

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 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**		
5. Discharge Type Code: **V**	6. Stack Height: **90** feet	7. Exit Diameter: **9.7** feet
8. Exit Temperature: **225**°F	9. Actual Volumetric Flow Rate: **76000** 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 Coordinates: Zone: **17** East (km): **356.280** North (km): **3168.560**		
14. Emission Point Comment (limit to 200 characters): **None**		

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 Cooler**		
2. Source Classification Code (SCC): **3-05-006-14**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **90**	5. Maximum Annual Rate: **788400**	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**		

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	**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: **14.9** lb/hour **65.3** tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: **N/A** [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: **0.09 lb/ton dry preheater feed** Reference: **Permit No. 0530010-002-AV**	7. Emissions Method Code: **0**

8. Calculation of Emissions (limit to 600 characters):

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 Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **RULE**	2. Future Effective Date of Allowable Emissions: **NA**
3. Requested Allowable Emissions and Units: **0.09 lb/ton dry preheater feed**	4. Equivalent Allowable Emissions: **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.

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%** 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**	

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**	

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**
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5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [**X**] Not Applicable
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7. Operation and Maintenance Plan [**X**] Attached, Document ID: **O&M Plan** [ ] 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: **None**

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

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[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
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Attached, Document ID:_____

[ ] Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[**X**] Not Applicable