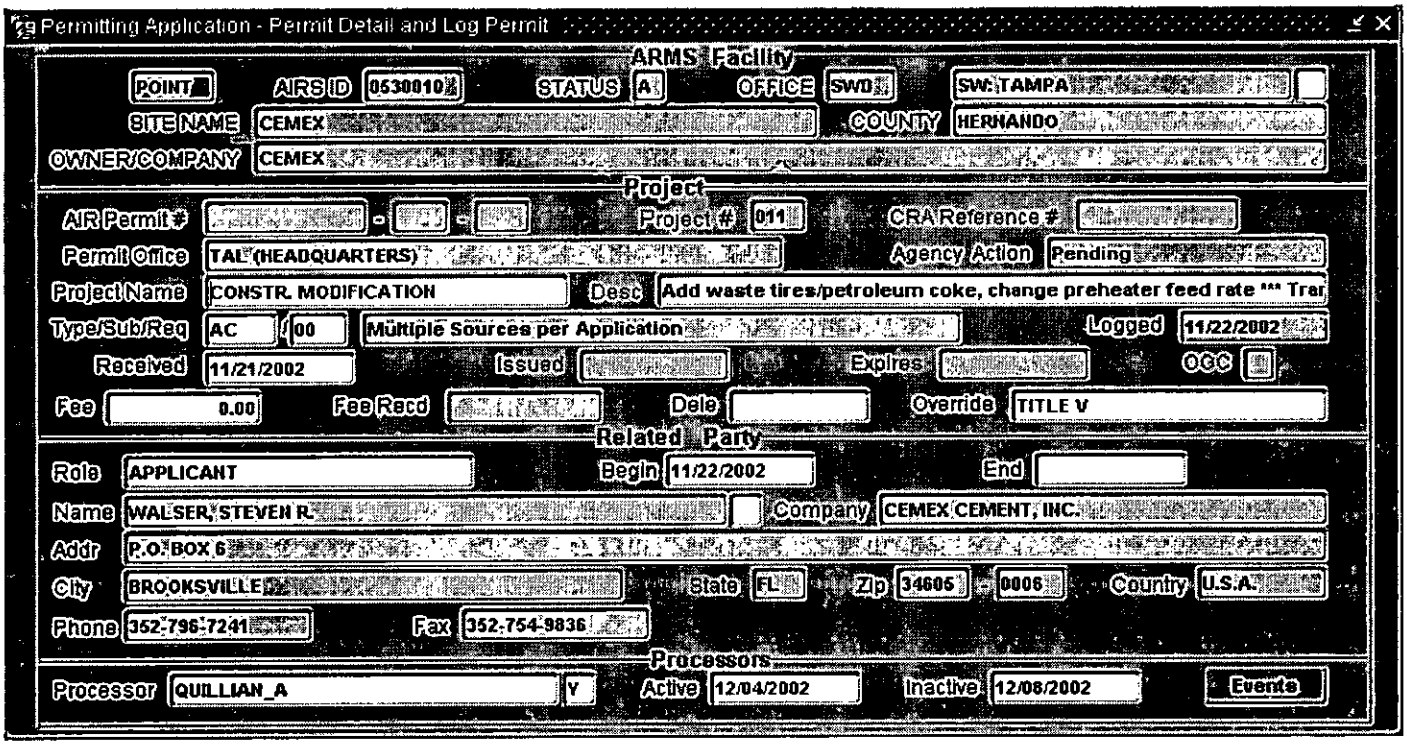


11/26/02

Patty,

Please open File for this project & add the attached.

Thanks!

Greg D.

MEMORANDUM

TO: Al Linero, P.E.

FROM: Jim McDonald

DATE: November 22, 2002

SUBJECT: CEMEX Cement, Inc. – Brooksville Plant
Adding Waste Tires & Petroleum Coke
Construction Modification Request & Title V Permit Revision request
Facility ID No.: 0530010

As I am logging this application package in for processing, I decided to send you an extra copy of CEMEX's construction modification application (& Title V revision request to change their O&M Plan, which we will do) in case the modifications turn out to require a PSD determination.

Do you know if the 150 TPH rolling average limitation for the kilns' preheater feed rate was established as a result of a PSD concern, such as modeling/ambient standard? Who ever in our office gets to process this application will probably need to know this information. Maybe we can't change the limitation here.

Please let Eric Peterson or me know your thoughts on this issue.

Thanks Again

KOOGLER & ASSOCIATES
ENVIRONMENTAL SERVICES
4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
352/377-5822 • FAX/377-7158

November 19, 2002

Gerald Kissel, P.E.
Southwest District -- Air Program
Florida Department of
Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619

SUBJECT: CEMEX Cement, Inc. – Brooksville Plant
Application for Air Construction Permit
Waste Tires as Supplemental Fuel for No. 2 Kiln
Facility ID No. 0530010

Dear Mr. Kissel:

Enclosed please find four (4) copies of the referenced application. 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).

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.

If you have any questions, please call me at (352) 377-5822.

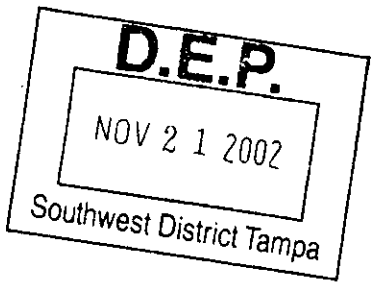
Sincerely,

Steven C. Cullen, P.E.
Koogler & Associates

copy to: Charlie Walz – CEMEX Cement, Inc.

CEMEX

November 15, 2002



Mr. Eric Peterson P.E.
Fl. Department of Environmental protection
Air Permitting Section
3804 Coconut Palm Drive
Tampa, Fl. 33619

Re: Revisions to Operation & Maintenance Plan Submitted June 13, 2002
CEMEX Cement, Inc. Title V Air permit No. 0530010-002-AV

Dear Mr. Peterson:

I have sent a Title V Air Permit Revision application to Mr. Gerald Kissel that requests the Department to review and approve the CEMEX Cement, Inc. Operation and Maintenance Plan. In your letter dated September 23, 2002, the Department had some preliminary comments about the plan. I spoke with you and Bill Proses regarding these concerns and I have included with the Air Permit Revision Application, a revised copy of this plan that addresses these issues.

If you have any questions, please contact me at (352) 799-2011.

Sincerely,

Charles E. Walz
Plant Environmental Manager

cc. File

United States Operations
P.O Box 6, Brooksville, Florida. 34605-0006. USA. Phone: (352) 796-7241, Fax: (352) 754-9836

Cemex Cement, Inc.
Brooksville, Florida Plant
Operation and Maintenance Plan

(June 2002)
Revision 1

16301 Ponce De Leon Blvd
Brooksville, Florida 34614

SECTION 1

INTRODUCTION

1.1 SCOPE OF PLAN

This operation and maintenance plan ("Plan") has been prepared in fulfillment of the requirements of 40 CFR 63.1350 (a) for the Cemex Cement Inc., Cement plant in Brooksville, Florida. Facilities that are subject to 40 CFR 63 Subpart LLL are to prepare a written operations and maintenance plan for affected sources and submit to the Administrator for review and approval as part of the Title V application. For existing sources constructed prior to March 24, 1998, an Operation and Maintenance Plan must be implemented by June 14, 2002. The facilities Title V Air Operations Permit is No. 0530010-002-AV.

1.2 DESCRIPTION OF PLANT

This Plant is owned and operated by CEMEX, Inc. d.b.a. Cemex Cement, Inc. At the time of the preparation of this plan, the plant manufactures approximately of 1,400,000 tons per year of cement. Of that amount approximately 100,000 tons is manufactured as Masonry Cement. The plant also operates a surface mining operation for Limestone that is currently conducted South of the cement production facility.

The manufacture of Portland cement primarily involves the crushing, grinding, and blending of limestone and other raw materials into a chemically proportioned mixture that is heated in a rotary kiln at extremely high temperatures to produce small grey colored nodules of variable diameters typically averaging about 2 inches. These nodules known as clinker are cooled and ground with a small amount of gypsum in Finish Mills to produce the final product, cement. The cement is pneumatically conveyed in closed pipelines to large vertical silos to be distributed by truck tanker, rail cars or in paper sacks. The two rotary kilns are fired using coal as the primary fuel. The #1 Kiln is permitted a 20 % fuel substitution of whole scrap tires in lieu of coal.

SECTION 2

OPERATION AND MAINTENANCE PROCEDURES

2.1 OPERATION PROCEDURE

The equipment included in this plan will not be operated unless it is vented to air pollution control equipment that is functioning.

The kiln baghouse inlet temperature will be monitored according to 40 CFR 63.1344. The continuous temperature monitor shall meet the requirements of 40 CFR 63.1350 (f)(1) through (f)(6). See **Appendix 6** for text of regulation.

The kiln/in-line raw mill baghouse exhaust and cooler baghouse exhaust shall each be monitored through the use of a continuous opacity monitor (COM).

Emissions from fugitive sources will be prevented. It is normal operating practice for all employees to be aware of fugitive sources of emissions. When a fugitive source is discovered, corrective action measures are implemented as soon as practicable.

2.2 PREVENTIVE MAINTENANCE PROCEDURE

An inspection and preventive maintenance schedule has been prepared for all sources. This schedule is included in **Table 2-2**. The Preventive Maintenance Protocol is the established equipment inspection implemented as a result of the Title V Operating Permit requirements; routine preventive maintenance inspections on a quarterly and semi-annual basis will be conducted as scheduled via the maintenance work order planning system. An Annual Combustion System Inspection has been developed that measures the coal firing process parameters while in the operating mode. The results of these measurements will indicate any repairs to equipment needing to be performed during the annual Kiln maintenance shutdowns.

The plant maintains a vast supply of replacement and spare parts as current inventory. The purchasing computer system alerts the buyer when the inventory for an item falls below a specified minimum number.

In the event parts are unavailable, there is a high possibility that nearby CEMEX cement plants in Alabama and Georgia would have the necessary replacement parts. CEMEX has also frequently exchanged parts with a competitor also located in the Brooksville area as our equipment is very similar.

The Kiln and Cooler COM's have been installed and are operated and maintained in accordance with 40 CFR 63 Subpart A and 40 CFR 60 PS-1 of Appendix B.

When revisions are made during the year, these revisions will be made according to **Section 5, Implementation and Revision to Plan**.

SECTION 3

OPACITY MONITORING PROCEDURES

3.1 Monthly Opacity Monitoring Procedures

Once per calendar month, one-minute visible emissions tests will be conducted on the emission points indicated on the Summary of Emission Units Sheets (Tables 2-1 and 2-2 using Method 22.)

Testing will be scheduled during daylight hours.

The flowchart on the following page, Figure 3-1, *Procedure for Monthly VE Monitoring*, is to be followed. The results of each month's test are recorded on a *Monthly Visible Emissions Inspection Report Form*, **Form MVEIR**. A sample of this form is attached in **Appendix 2.**

At least one person at the facility will be certified to perform a Method 9 test.

Written Procedure:

Determine that all the sources to be monitored are operating normally and record the time and operating capacity at which each Method 22 was made. If no visible emissions are observed, the observer may record a negative observation. At the end of the test, the observer will verify that all sources being tested continuously operated throughout the test period. If any of the sources stopped operation during the test period, another one-minute, Method 22 test will be performed for those sources during the calendar month.

If visible emissions are observed, the observer will record the time of the observation and the identity of the equipment from which emissions were observed. The DVEIR form instructs the observer to contact the person qualified to conduct a Method 9 test as soon as practical and initiate a **CARM** form **APPENDIX 4** ***Corrective Action Report Monthly*** Observations. The 6-minute Method 9 must be started no later than one hour from the time visible emissions were observed and all the required information recorded. When testing is complete, the observer will again verify that the equipment was running during the test. If the equipment stopped operation during the test, the test must be repeated when the equipment is restarted. If the Method 9 test indicates that the source is in compliance with the 10% opacity limit, a negative observation will be recorded and the observer will return to the normally scheduled VE monitoring schedule. If the Method 9 indicates that the source is exceeding the 10% opacity limit, a positive observation shall be recorded on the semi-annual report. Corrective action will be initiated. Daily six-minute Method 9 tests will be conducted until the problem is corrected. When the Method 9 test verifies compliance, return to the normal VE monitoring schedule.

A sample of the Visible Emission Observation Form to be used when performing a six-minute Method 9 test is included in **Appendix 5.**

3.2 Daily Opacity Monitoring Procedures (Finish Mills)

Once per operating day, 6 minute Method 22 visible emissions tests will be conducted covering the three Finish Mill particulate control devices that filter air from the mill sweeps and air separators. These emission points are identified in the Daily Visible Emissions Inspection Report Form **(DVEIR).** *An example of this form is attached in* ***Appendix 1.***

Testing will be scheduled during daylight hours.

The flowchart on the following page, Figure 3-2, *Procedure for Daily VE Monitoring*, is to be followed. The results of each test are recorded on the *Daily Visible Emissions Inspection Report* ***Form***

At least one person at the facility will be certified to perform a Method 9 test.

Written Procedure:

Determine that all the sources to be monitored are operating. Record the time and operating capacity for which the Method 22 determination was made. If no visible emissions are observed, the observer may record a negative observation. At the end of the test, the observer will verify that all sources being tested operated continuously throughout the test period. If any of the sources stopped operation during the test period, a Method 22 test will be rescheduled.

If visible emissions are observed, the DVEIR form instructs the observer to initiate a **CARD** form **(Appendix 3)** ***Corrective Action Report Daily*** that instructs the observer to take corrective action within 1 hour. Within 24 hours, the observer will subsequently conduct a second Method 22 test. If visible emissions are observed during the second Method 22 test, the observer must notify a Method 9 observer within one hour of that test. A qualified observer will conduct a 30-minute Method 9 test within 24 hours. If the Method 9 test indicates that the opacity is greater than 5% but less than 10%, then a daily Method 9 test will be conducted daily until the problem can be corrected. If any of the Method 9 tests indicate that opacity exceeds than 10% limit, further corrective action will begin as soon as possible. **<Corrective action when the opacity exceeds 10% is to initiate maintenance repairs to correct the problem or shut the mill down if entry into the baghouse is needed to make the repairs>. Comment (1).** If any problems occur all information will be recorded on the **CARD** report form. A positive observation shall be recorded on the semi-annual report that will be filed with the Florida Department of Environmental Protection. Once the problem is corrected, normal Method 22 observations will resume.

SECTION 4

CORRECTIVE ACTION PROCEDURES

4.1 Corrective Action Procedures

Testing will be scheduled during daylight hours. If visible emissions are observed during a regularly scheduled inspection, the 'YES' column of each DVEIR and MVEIR form shows the Corrective Action Method to follow. In addition, each Daily and Monthly inspection form logbook gives a detailed explanation of each Corrective Action Method. A Corrective Action Report Daily (CARD) or Corrective Action Report Monthly (CARM) are located in each of the inspection logbooks and should be completed in the event of any visible emissions.

4.2 Corrective Action Procedures for Finish Mills

As per 40 CFR 63.1350(e) (copy attached in Appendix 2)

The flowchart on the following page, *Corrective Action for Finish Mills*, is to be followed. The results of each corrective action implemented are recorded on the ***Corrective Action Report Daily*** **form (CARD) in Appendix 3** and in the daily inspection logbook.

Written Procedure:
The person making the daily visible emissions observation is responsible for initiating corrective action. The observer will record the time that corrective action began (corrective action must be initiated within one hour of the time of the observation of visible emissions). Corrective action begins with the following step: The person responsible for corrective action will attempt to identify the source and/or cause of the visible emissions. If possible, the problem can be corrected as quickly as practical, without shutting down the mill. After the problem is corrected, a Method 22 VE test will be conducted. If no visible emissions are observed, return to the normally scheduled VE monitoring. If visible emissions are observed on two consecutive days, and the problem cannot be corrected without shutting the mill down, within 24 hours, a Method 9 test must be conducted for 30 minutes. If the Method 9 test indicates that the source is in compliance with the 10% opacity limit, return to normal daily monitoring procedure. If the Method 9 test indicates that the opacity exceeds the 10% limit, further corrective actions will be implemented and the observer will return to the normal VE monitoring schedule. The excursion will be recorded as excess emission for the day and included on the semi-annual report. ~~**A report of the excursion will be faxed within 2 days to the Florida Department of Environmental Department, Air Enforcement Branch, Southwest District.**~~

A sample of the six-minute and thirty-minute Visible Emission Observation Form to be used when performing a Method 9 test is included in **Appendix 5.**

SECTION 5

TRAINING FOR VISIBLE EMISSIONS TESTING

Method 9

Persons conducting Method 9 testing will be trained and certified through Eastern Technical Associates or one acceptable to the agency. At least one person in the plant will have Method 9 Certification.

Method 22

Anyone who has received Method 9 training is trained to perform Method 22 testing, even if their certification has expired.

In addition, other plant personnel may be trained to perform Method 22 testing. The person conducting the training will have received Method 9 training and will include the following information in the training.

1. Location from which observations are to be made
2. Duration and frequency of testing required
3. Procedures outlined in Sections III and IV of this manual
4. Recording of data
5. Ambient lighting
6. Observer's position relative to lighting
7. Effects of background contrast
8. Wind
9. Presence of condensed water
10. Procedures to follow if a positive reading occurs.

The information presented in training may be taken from:

This manual
40 CFR 60, Appendix A, Method 22
40 CFR 60, Appendix A, Method 9
The lecture portion of the Method 9 certification course.

SECTION 6

PREVENTIVE MAINTENANCE PROGRAM

The Preventive Maintenance Program is computer based with programmed checklists to inspect equipment on a set time frequency. All the dust collectors and bag houses are set up on a Quarterly frequency and have a detailed set of inspections to perform. The following is the inspection procedure for Pulse Jet Dust Collectors. There are slight variations in the construction and operation of all dust collectors and bag houses but all will follow this form.

QUARTERLY PM FOR PULSE-JET DUST COLLECTOR

Preliminary work:

1. Coordinate production operation in charge prior to PM implementation.
2. Prepare tools, parts and all necessary things in order to complete the pm activities.
3. Wear appropriate outfit and safety paraphernalia
4. Follow proper lock-out procedure

Scope of work:

DISCHARGE DEVICE OF DUST COLLECTOR:

1. Check internals of rotary feeder or tipping valve for material buildup or damage, if applicable.
2. Check packing for proper lubrication.
3. Check for loose connections and tight flange seal.
4. Check wear of sealing strips of rotor vane.

BEARINGS AND SCREW SHAFT

1. Check bearings for wear and lubricant.
2. Check screw shaft and flights for deformation and wear.
3. Lubricate packing rings.
4. Check hanger bearings for wear and damage, replace if necessary.

SCREW TROUGH

1. Remove cement accumulation in all surfaces.
2. Check joints regarding cracks, damage, and defects for repair.

DRIVE MOTOR OF SCREW CONVEYOR AND FAN

1. Check for material buildup, remove if necessary.
2. Check all mounting bolts for secure fastening.
3. Check drive components for wear and looseness.

GEARBOX OF SCREW CONVEYOR

1. Check oil level in the gearbox. Correct if necessary.
2. Check oil sample regarding color and consistency. Change if sample is polluted.
3. Check the tightness of all mounting bolts.
4. Test run the unit and observe for abnormal noise and vibration during operation.

5. Check for oil leaks. Repair immediately if present.

RADIAL FAN

1. Open inspection manhole and inspect the impeller blade.
2. Remove hardened cement accumulation in the impeller blade and foreign matters inside.
3. Check bearing status. If necessary change the lubricant.
4. Check v-belts for tension, wear and damage.
5. Check for the tightness of the set screws and alignment of the pulleys.
6. Check for tightness of all mounting bolts.
7. Check the stands from cracks and deformation.
8. At running condition, check for leaks in the housing and rubber connection. If present, repair immediately. Also observe for abnormal noise in the bearings and vibration in the machine.
   noise in the bearings and vibration in the machine.

FILTER HOUSING

1. Remove all hardened cement accumulation around the chamber.
2. Check for holes and wear of filter bags through the use of visualite.
3. Check doors for tightness and easy open/close. Clean doors and rubber seal to avoid sticking.
4. Check all snap rings for correctness.
5. Check hopper for wear or damage.
6. Check baffles for wear.
7. Clean the clean gas chamber.
8. Check for material buildup in dust pipe.

CLEANING MECHANISM

1. Check cleaning mechanism for correct functioning. Make sure that all diaphragm valves are in good operating condition.
2. Check for solenoid function. Time interval of solenoid to trigger should be equal in each cycle.
3. Check all valves and pipes for leaks.
4. Remove, dismantle and clean the float valve of water separator in the compressed air line.

If any piece of equipment is found with abnormalities and needs to be corrected, then a work order will be made up for each dust collector specifying a description of the problem with any recommendations for improvement. (one work order per piece of abnormal equipment). All records of inspections and repairs will be held for 5 years.

SECTION 7

IMPLEMENTATION AND REVISION OF PLAN

7.1 Procedures

This plan will be implemented on June 14, 2002.

The plan will be submitted to the Administrator for approval. Prior to submitting the plan to the Administrator, the plan may be revised without the Administrator's review.

If any parts of this plan are found to be ineffective, inadequate or unnecessary, after the Administrator has approved the plan, Cemex Cement, Inc. may submit a revised plan to the Administrator for approval. If the Administrator approves the revised plan or takes no action within 60 days, Cemex Cement, Inc. may implement the revised plan without reopening the Title V permit. This will be considered a minor modification to the Title V permit.

Table 7-1
Cemex Cement, Inc. – Brooksville Plant
Operations and Maintenance Plan
Revision Log

Revision Date	Section (s) Revised	Revised by Name / Title	Comments
		Charles Walz Envr. Mgr.	Revised plan for plant-wide coverage and Title V Revision Application
Nov 15,2002	3.2 comment(1), 4.1, APPENDIX 3 CARD form	Charles Walz Envr Mgr.	Revised CARD form and clarified corrective action comments. Deleted notification line statement.

APPENDIX 1

Form DVEIR (Daily Visible Emission Inspection Report)

Week of: _____ Brooksville Daily Visible Emissions Inspection Report

(Complete when equipment is operating at the highest feed rate expected for the day)

Operating Capacity	Observer's Name	Signature	DATE mm/dd/yy	START TIME (Military)	STOP TIME (Military)	SIX MINUTE METHOD 22 EMISSIONS OBSERVED? YES - Initiate Corrective Action w/in one hour (GO TO CARD (form))	NO
Finish Mill #1							
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							
Sunday							
Finish Mill #2							
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							
Sunday							
Finish Mill #3							
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							
Sunday							

APPENDIX 2

Form MVEIR (Monthly Visible Emission Inspection Report)

Brooksville Monthly Visible Emissions Test Form, 1 Minute Duration

FORM MVEIR

ID NO. 002 - NO. 1 KILN FEED SYSTEM					Military Time		Method			
	Operating Capacity	Observer's Name	Signature	Date	Start Time	Stop Time	Type/Date 22 / Cert	Wind Speed	Wind Direction	Observation YES/NO
JANUARY										
FEBRUARY										
MARCH										
APRIL										
MAY										
JUNE										
JULY										
AUGUST										
SEPTEMBER										
OCTOBER										
NOVEMBER										
DECEMBER										

ID NO. 006 - CLINKER STORAGE SILO NO.'S 1 & 2										
JANUARY										
FEBRUARY										
MARCH										
APRIL										
MAY										
JUNE										
JULY										
AUGUST										
SEPTEMBER										
OCTOBER										
NOVEMBER										
DECEMBER										

NOTE: If Visible Emissions' are observed, conduct 6 min. method 9, Within 1 hour of Visible Emissions.

Complete Corrective Action Form CARM If emissions Are Observed

APPENDIX 3

Form CARD (Corrective Action Report Daily Observation)

CORRECTIVE ACTION REPORT

Daily Observations

Description and Date of problem	Equip. #	Time (Military time)*	Check for emissions Conduct second Method 22 test within 24 hours		Step 1 Check for emissions Conduct 30-minute Method 9 Visible Emissions within 48 hrs of Initial VE		Step 2 Thirty-minute Method 9 Emissions > 10	
			Yes - go to Step 1 - Initiate Corrective action	No - go to Step 2	Yes - Go to step 2	No-Return to normal sched.	YES	NO
1.							Continue to take further corrective action and conduct and record daily 30-minute Method 9* observations until the problem is corrected. **Initiate Maint Reprs to correct problem or shut mill down if entry to baghouse is needed to make the repairs.**	**Conduct and record daily 30-minute Method 9* observations until the problem is corrected.**
2								
3								
4								
5								
6								
7								
8								

*Attach VE Method 9 Forms.

CORRECTIVE ACTION REPORT

Monthly Observations

Description and Date of problem	Equip. #	Time (Military time)	Step 1 Check for emissions Conduct 6-minute Method 9 Visible Emissions within 1 hr of initial VE		Step 2 Six-minute Method 9 Emissions > 10	
			Yes - Go to step 2	No-Return to normal sched.	YES	NO
1.					Continue to take further corrective action and conduct and record daily 6-minute Method 9* observations until the problem is corrected. **Record positive observation and include on semi-annual report**	**Conduct and record daily 6-minute Method 9* observations until the problem is corrected.**
2						
3						
4						
5						
6						
7						
8						

*Attach VE Method 9 Form.

Figure 3-2 SIX-MINUTE VISIBLE EMISSION OBSERVATION FORM

No.

COMPANY NAME		
STREET ADDRESS		
CITY	STATE	ZIP
PHONE (KEY CONTACT)	SOURCE ID NUMBER	
PROCESS EQUIPMENT	OPERATING MODE	
CONTROL EQUIPMENT	OPERATING MODE	

OBSERVATION DATE	START TIME	END TIME

SEC / MIN	0	15	30	45	COMMENTS
1					
2					
3					
4					
5					
6					

DESCRIBE EMISSION POINT	
HEIGHT ABOVE GROUND LEVEL	HEIGHT RELATIVE TO OBSERVER Start End
DISTANCE FROM OBSERVER Start End	DIRECTION FROM OBSERVER Start End
DESCRIBE EMISSIONS Start	End
EMISSION COLOR Start End	IF WATER DROPLET PLUME Attached Detached
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED Start	End
DESCRIBE PLUME BACKGROUND Start	End
BACKGROUND COLOR Start End	SKY CONDITIONS Start End
WIND SPEED Start End	WIND DIRECTION Start End
AMBIENT TEMP Start End	WET BULB TEMP Rh Percent

Stack with Plume

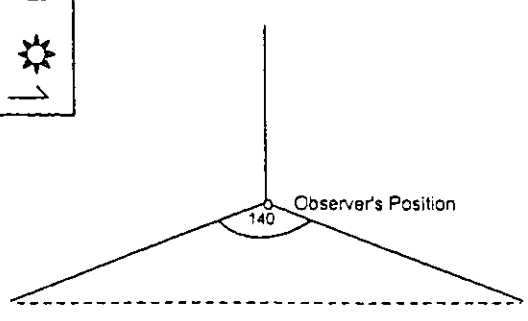
Sun

Wind

SOURCE LAYOUT SKETCH

X Emission Point

Draw North Arrow



ADDITIONAL INFORMATION

OBSERVER'S NAME (PRINT)	
OBSERVER'S SIGNATURE	DATE
ORGANIZATION	
CERTIFIED BY	DATE
CONTINUED ON VEO FORM NUMBER	

APPENDIX 6

40 CFR 63 Subpart LLL—National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry *(excerpts)*

emissions are vented from these affected sources including alkali bypasses in accordance with paragraphs (c)(1) through (c)(3) of this section.

(1) Except as provided in paragraph (c)(2) of this section, the owner or operator shall install, calibrate, maintain, and continuously operate a continuous opacity monitor (COM) located at the outlet of the PM control device to continuously monitor the opacity. The COM shall be installed, maintained, calibrated, and operated as required by subpart A, general provisions of this part, and according to PS–1 of appendix B to part 60 of this chapter.

(3) To remain in compliance, the opacity must be maintained such that the 6-minute average opacity for any 6-minute block period does not exceed 20 percent. If the average opacity for any 6-minute block period exceeds 20 percent, this shall constitute a violation of the standard.

(d) The owner or operator of a clinker cooler shall monitor opacity at each point where emissions are vented from the clinker cooler in accordance with paragraphs (d)(1) through (d)(3) of this section.

(1) Except as provided in paragraph (d)(2) of this section, the owner or operator shall install, calibrate, maintain, and continuously operate a COM located at the outlet of the clinker cooler PM control device to continuously monitor the opacity. The COM shall be installed, maintained, calibrated, and operated as required by subpart A, general provisions of this part, and according to PS–1 of appendix B to part 60 of this chapter.

(3) To remain in compliance, the opacity must be maintained such that the 6-minute average opacity for any 6-minute block period does not exceed 10 percent. If the average opacity for any 6-minute block period exceeds 10 percent, this shall constitute a violation of the standard.

(e) The owner or operator of a raw mill or finish mill shall monitor opacity by conducting daily visual emissions observations of the mill sweep and air separator PMCDs of these affected sources, in accordance with the procedures of Method 22 of appendix A of part 60 of this chapter. The Method 22 test shall be conducted while the affected source is operating at the highest load or capacity level reasonably expected to occur within the day. The duration of the Method 22 test shall be six minutes. If visible emissions are observed during any Method 22 visible emissions test, the owner or operator must:

(1) Initiate, within one-hour, the corrective actions specified in the site specific operating and maintenance plan developed in accordance with paragraphs (a)(1) and (a)(2) of this section; and

(2) Within 24 hours of the end of the Method 22 test in which visible emissions were observed, conduct a visual opacity test of each stack from which visible emissions were observed in accordance with Method 9 of appendix A of part 60 of this chapter. The duration of the Method 9 test shall be thirty minutes.

(f) The owner or operator of an affected source subject to a limitation on D/F emissions shall monitor D/F emissions in accordance with paragraphs (f)(1) through (f)(6) of this section.

(1) The owner or operator shall install, calibrate, maintain, and continuously operate a continuous monitor to record the temperature of the exhaust gases from the kiln, in-line kiln/raw mill and alkali bypass, if applicable, at the inlet to, or upstream of, the kiln, in-line kiln/raw mill and/or alkali bypass PM control devices.

(i) The recorder response range must include zero and 1.5 times either of the average temperatures established according to the requirements in § 63.1349(b)(3)(iv).

(ii) The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator.

(2) The owner or operator shall monitor and continuously record the temperature of the exhaust gases from the kiln, in-line kiln/raw mill and alkali bypass, if applicable, at the inlet to the kiln, in-line kiln/raw mill and/or alkali bypass PMCD.

(3) The three-hour rolling average temperature shall be calculated as the average of 180 successive one-minute average temperatures.

(4) Periods of time when one-minute averages are not available shall be ignored when calculating three-hour rolling averages. When one-minute averages become available, the first one-minute average is added to the previous 179 values to calculate the three-hour rolling average.

(5) When the operating status of the raw mill of the in-line kiln/raw mill is changed from off to on, or from on to off the calculation of the three-hour rolling average temperature must begin anew, without considering previous recordings.

(6) The calibration of all thermocouples and other temperature sensors shall be verified at least once every three months.

Department of Environmental Protection

Division of Air Resources Management

D.E.P.
NOV 2 1 2002
Southwest District Tampa

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):	

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BUREAU OF AIR REGULATION

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Initial Title V air operation permit for an existing facility which is classified as a Title V source.

[ ] Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number:_____

[ ] Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number:_____

Operation permit number to be revised:_____

[X] Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected:

Permit No. 0530010-002-AV, 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: **12 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.**	

Pollutant Detail Information Page 3 of 6

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**
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