



Department of Environmental Protection

DRAFT
6-11-02

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

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

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: Florida Rock Industries, Inc.	
2. Site Name: Thompson S. Baker Cement Plant – Newberry	
3. Facility Identification Number: 0010087 [] Unknown	
4. Facility Location: Street Address or Other Locator: 4000 NW County Road 235 City: Newberry County: Alachua Zip Code: 32669	
5. Relocatable Facility? [] Yes [X] No	6. Existing Permitted Facility? [X] Yes [] No

Application Contact

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

Application Processing Information (DEP Use)

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

Purpose of Application

Air Operation Permit Application

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

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

Current construction permit number: _____

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

Current construction permit number: _____

Operation permit number to be revised: _____

- 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: **0010087-002-AV**

- Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised: _____

Reason for revision: _____

Air Construction Permit Application

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

- 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: Cary O. Cohrs: Vice President – Operations
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: Florida Rock Industries, Inc. Street Address: 4000 NW CR 235 City: Newberry State: Florida Zip Code: 32669
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (352) 472-4722 Fax: (352) 472-2449
4. Owner/Authorized Representative or Responsible Official Statement: <i>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.</i> _____ Signature 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 [], 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

Date

(seal)

* Attach any exception to certification statement.

Construction/Modification Information

1. Description of Proposed Project or Alterations:

The project increases the preheater feed rate, the kiln feed rate, the clinker production and handling rate, and decreases allowable emissions.

2. Projected or Actual Date of Commencement of Construction: **No physical construction**

3. Projected Date of Completion of Construction: **No physical construction**

Application Comment

The initial Title V Air Operation Permit (FINAL Permit No.: 0010087-002-AV) was used as a basis for this permit application.

The facility-wide conditions in Section II of the permit are not affected by this project. The emissions units common conditions in Section III, Subsections H, I, and J of the permit are not affected by this project.

The emissions units conditions are not affected by this project in:

Section III, Subsection A. EU 001- Raw Material Handling and Storage

Section III, Subsection B. EU 002- Raw Mill System

Section III, Subsection E. EU 005- Finish Grinding Operation

Section III, Subsection F. EU 006- Cement Handling, Loading, and Bagging Operation

Section III, Subsection G. EU007- Coal Handling and Grinding Operation

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: 17 East (km): 348.4 km North (km): 3287.0			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 29° 42' 21" Longitude (DD/MM/SS): 82° 35' 00"			
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: Cary O. Cohrs: Vice President – Operations			
2. Facility Contact Mailing Address: Organization/Firm: Florida Rock Industries, Inc. Street Address: 4000 NW CR 235 City: Newberry State: Florida Zip Code: 32669			
3. Facility Contact Telephone Numbers: Telephone: (352) 472-4722 Fax: (352) 472-2449			

Facility Regulatory Classifications

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source?	<input checked="" type="checkbox"/> Unknown
2. <input checked="" type="checkbox"/> Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	
3. <input type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)?	
5. <input type="checkbox"/> Synthetic Minor Source of HAPs?	
6. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS?	
7. <input checked="" type="checkbox"/> One or More Emission Units Subject to NESHAP?	
8. <input type="checkbox"/> Title V Source by EPA Designation?	
9. Facility Regulatory Classifications Comment (limit to 200 characters): None	

List of Applicable Regulations

Title V Core List	
NSPS Subparts F, Y, and OOO	
NESHAP Subpart LLL	

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. <u>Requested Emissions Cap</u>		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
PM	A	Not Requested	Not Requested	No Basis	None
PM10	A	Not Requested	Not Requested	No Basis	None
SO2	A	Not Requested	Not Requested	No Basis	None
NOx	A	Not Requested	Not Requested	No Basis	None
CO	A	Not Requested	Not Requested	No Basis	None
VOC	B	Not Requested	Not Requested	No Basis	None
SAM	B	Not Requested	Not Requested	No Basis	None
H021	B	Not Requested	Not Requested	No Basis	Not regulated
H106	A	Not Requested	Not Requested	No Basis	None
DIOX	B	Not Requested	Not Requested	No Basis	None

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department
2. Facility Plot Plan: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department
3. Process Flow Diagram(s): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department
5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department
6. Supplemental Information for Construction Permit Application: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Supplemental Requirements Comment: None

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable to current project
9. List of Equipment/Activities Regulated under Title VI: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable
10. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Risk Management Plan Verification: <input type="checkbox"/> 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: _____) <input type="checkbox"/> Plan to be submitted to CEPPO (Date required: _____) <input checked="" type="checkbox"/> Not Applicable
14. Compliance Report and Plan: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Compliance Certification (Hard-copy Required): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> 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): Kiln System			
4. Emissions Unit Identification Number: ID: 003		[] No ID [] ID Unknown	
5. Emissions Unit Status Code: A	6. Initial Startup Date: 12/17/99	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? []
9. Emissions Unit Comment: (Limit to 500 Characters)			
The following pages show Title V permit conditions requested for change. All corresponding tables are also requested for change.			

Section III. Emission Unit(s) and Conditions**Subsection C.: This section addresses the following emissions unit****E.U. ID**

<u>No.</u>	<u>Brief Description</u>
-003	Kiln System

FROM:

C.1. Capacity (Preheater). The preheater dry feed rate shall not exceed 149.9 tons per hour and 1,114,350 tons per year.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; AC01-267311/PSD-FL-228]

TO:

C.1. Capacity (Preheater). The preheater dry feed rate shall not exceed 187.71 tons per hour (24-hour rolling average) and 1,360,000 tons per year.

FROM:

C.2. Capacity. The maximum production rate for the kiln clinker shall not exceed 95.8 tons per hour and 2300 tons per day and 712,500 tons per year. The clinker production rate shall be determined as a function of the preheater dry feed rate.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; AC01-267311/PSD-FL-228]

TO:

C.2. Capacity. The maximum production rate for the kiln clinker shall not exceed 110.42 tons per hour (24-hour rolling average) and 2650 tons per day and 800,000 tons per year. The clinker production rate shall be determined as a function of the preheater dry feed rate.

*Add
peak of
115 TPH*

FROM:

C.4. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year, as long as the 712,500 TPY clinker limit is not exceeded.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

TO:

C.4. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year, as long as the 800,000 TPY clinker limit is not exceeded.

FROM:

C.7. Particulate Matter. Particulate Matter emissions shall not exceed 0.20 pounds per ton of dry feed to the preheater and 0.31 pounds per ton of clinker, and 30.00 lb/hr and 110.50 ton/yr.

[AC01-267311/PSD-FL-228, BACT; 40 CFR 60.62(a)(1), 40 CFR 63.1343(c)(1) subsumed].

{Permitting Note: The averaging time for Condition C.7. is based on the run time of the specified test method.}

TO:

C.7. Particulate Matter. Particulate Matter emissions shall not exceed 0.138 pounds per ton of dry feed to the preheater and 0.235 pounds per ton of clinker, and 25.90 lb/hr (24-hour rolling average) and 94 ton/yr.

FROM:

C.8. Particulate Matter (PM₁₀). PM₁₀ emissions shall not exceed 0.17 pounds per ton of dry feed to the preheater and 0.26 pounds per ton of clinker, and 25.50 lb/hr and 93.93 ton/yr.
[AC01-267311/PSD-FL-228, BACT]

TO:

C.8. Particulate Matter (PM₁₀). PM₁₀ emissions shall not exceed 0.118 pounds per ton of dry feed to the preheater and 0.20 pounds per ton of clinker, and 22.15 lb/hr (24-hour rolling average) and 79.9 ton/yr.

FROM:

C.9. Sulfur Dioxide. Sulfur dioxide emissions shall not exceed 0.18 lb/ton of dry feed to the preheater and 0.28 pounds per ton of clinker (24-hr rolling average), and 28.82 lb/hr and 108.55 ton/yr. The permittee shall submit 90 days of certified SO₂ data by July 31, 2001. The Department may revise the sulfur dioxide emissions limit to less than 0.28 lb/ton clinker based on the compliance test and continuous emission monitoring data within 120 days following receipt of this data. Any such changes will be publicly noticed.
[AC01-267311/PSD-FL-228, BACT]

TO:

C.9. Sulfur Dioxide. Sulfur dioxide emissions shall not exceed 0.094 lb/ton of dry feed to the preheater and 0.16 pounds per ton of clinker, and 17.67 lb/hr (24-hr rolling average) and 64 ton/yr.

FROM:

C.10. NO_x. NO_x emissions shall not exceed 3.8 pounds per ton of clinker (30-day rolling average) after startup and until December 30, 2001. After December 30, 2001, NO_x emissions shall not exceed 2.8 pounds per ton of clinker (30-day rolling average). The permittee shall install any additional control equipment by December 30, 2001 to insure compliance with the 2.8 pounds per ton of clinker limit. The startup date was December 31, 1999.
[AC01-267311/PSD-FL-228, BACT]

TO:

C.10. NO_x. NO_x emissions shall not exceed 2.45 pounds per ton of clinker (30-day rolling average) and 270.53 lb/hr (30-day rolling average) and 980 ton/yr.

FROM:

C.11. Carbon Monoxide. Carbon Monoxide emissions shall not exceed 2.30 lb/ton of dry feed to the preheater and 3.60 pounds per ton of clinker (1-hr average), and 346.38 lb/hr and 1288.60 ton/yr.
[AC01-267311/PSD-FL-228, BACT]

TO:

C.11. Carbon Monoxide. Carbon Monoxide emissions shall not exceed 1.47 lb/ton of dry feed to the preheater and 2.50 pounds per ton of clinker (24-hr rolling average), and 276.05 lb/hr (24-hr rolling average) and 1000 ton/yr.

FROM:

C.12. VOC. VOC emissions shall not exceed 0.08 lb/ton of dry feed to the preheater and 0.12 pounds per ton of clinker (1-hr average), and 11.55 lb/hr and 42.90 ton/year.
[AC01-267311/PSD-FL-228 and BACT]

TO:

C.12. VOC. VOC emissions shall not exceed 0.063 lb/ton of dry feed to the preheater and 0.107 pounds per ton of clinker (24-hr rolling average), and 11.81 lb/hr (24-hr rolling average) and 42.90 ton/year.

FROM:

C.13. Beryllium. Limit to be determined by future stack tests. The startup test date will be 03/31/01.
[0010087-003-AC/PSD-FL-228A]

TO:

~~**C.13. Beryllium.** Limit to be determined by future stack tests. The startup test date will be 03/31/01.~~

FROM:

C.14. Sulfuric Acid Mist (SAM). SAM emissions shall not exceed 0.0016 lb/ton dry feed to the preheater and 0.0025 lb/ton clinker, and 0.25 lb/hr and 1.00 ton/year.
[AC01-267311/PSD-FL-228 and BACT; and, Revised Attached Table II of 0010087-003-AC/PSD-FL-228A]

TO:

C.14. Sulfuric Acid Mist (SAM). SAM emissions shall not exceed 0.0015 lb/ton dry feed to the preheater and 0.0025 lb/ton clinker, and 0.276 lb/hr (24-hour rolling average) and 1.00 ton/year.

Emissions Unit Control Equipment

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

Electrostatic Precipitator – High Efficiency

2. Control Device or Method Code(s): **010**

Emissions Unit Details

1. Package Unit: Not Applicable	
Manufacturer:	Model Number:
2. Generator Nameplate Rating: Not Applicable MW	
3. Incinerator Information: Not Applicable	
Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature:	°F

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? E-21		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): E-21: Main Stack			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: EU 002: Raw Mill and Air Heater discharge through E-21			
5. Discharge Type Code: V	6. Stack Height: 250 feet	7. Exit Diameter: 9.42 feet	
8. Exit Temperature: 356 °F	9. Actual Volumetric Flow Rate: 200000 acfm	10. Water Vapor: 6%	
11. Maximum Dry Standard Flow Rate: 144000 dscfm		12. Nonstack Emission Point Height: Not Applicable feet	
13. Emission Point UTM Coordinates: Not determined within 0.01 Kilometer Zone: East (km): North (km):			
14. Emission Point Comment (limit to 200 characters): None			

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

Segment Description and Rate: Segment 1 of 5

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Mineral Products: Cement Manufacturing – Dry Process: Preheater/Precalciner Kiln		
2. Source Classification Code (SCC): 3-05-006-23		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 187.71	5. Maximum Annual Rate: 1,360,000	6. Estimated Annual Activity Factor: Not Applicable
7. Maximum % Sulfur: Not Applicable	8. Maximum % Ash: Not Applicable	9. Million Btu per SCC Unit: Not Applicable
10. Segment Comment (limit to 200 characters): Preheater feed rate, 24-hour rolling average for hourly rate.		

Segment Description and Rate: Segment 2 of 5

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Mineral Products: Cement Manufacturing – Dry Process: Preheater/Precalciner Kiln		
2. Source Classification Code (SCC): 3-05-006-23		3. SCC Units: Tons Clinker
4. Maximum Hourly Rate: 110.42	5. Maximum Annual Rate: 800,000	6. Estimated Annual Activity Factor: Not Applicable
7. Maximum % Sulfur: Not Applicable	8. Maximum % Ash: Not Applicable	9. Million Btu per SCC Unit: Not Applicable
10. Segment Comment (limit to 200 characters): Clinker production rate, 24-hour rolling average for hourly rate.		

Segment Description and Rate: Segment 3 of 5

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: 0	5. Maximum Annual Rate: 0	6. Estimated Annual Activity Factor: 125
7. Maximum % Sulfur: 0.05	8. Maximum % Ash: Not Applicable	9. Million Btu per SCC Unit: 141
10. Segment Comment (limit to 200 characters): No change requested in this application.		

Segment Description and Rate: Segment 4 of 5

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: 14.0	5. Maximum Annual Rate: 122640	6. Estimated Annual Activity Factor: Not Applicable
7. Maximum % Sulfur: 1.25	8. Maximum % Ash: 10	9. Million Btu per SCC Unit: 26
10. Segment Comment (limit to 200 characters): No change requested in this application.		

Segment Description and Rate: Segment 5 of 5

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: 4.2	5. Maximum Annual Rate: 36792	6. Estimated Annual Activity Factor: Not Applicable
7. Maximum % Sulfur: Not Applicable	8. Maximum % Ash: Not Applicable	9. Million Btu per SCC Unit: 26
10. Segment Comment (limit to 200 characters): No change requested in this application.		

**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	010	None	EL
PM10	010	None	EL
SO2	None	None	EL
NOx	None	None	EL
CO	None	None	EL
VOC	None	None	EL
SAM	None	None	EL
H021	None	None	NS
H106	None	None	NS
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	2. Total Percent Efficiency of Control: 99%
3. Potential Emissions: 25.90 lb/hour 94 tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions: Not Applicable [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: 0.138 lb/ton dry feed Reference: Permittee	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.138 lb/ton x 187.71 tons/hr = 25.90 lb/hour @ 1,360,000 tons/yr = 94 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): None	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions: Not Applicable
3. Requested Allowable Emissions and Units: 0.138 lb/ton dry feed	4. Equivalent Allowable Emissions: 25.90 lb/hour 94 tons/year
5. Method of Compliance (limit to 60 characters): Method 5	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): None	

Potential/Fugitive Emissions

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: 99%
3. Potential Emissions: 22.15 lb/hour 79.9 tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions: Not Applicable [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: 0.118 lb/ton dry feed Reference: Permittee	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.118 lb/ton x 187.71 tons/hr = 22.15 lb/hour @ 1,360,000 tons/yr = 79.9 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): None	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions: Not Applicable
3. Requested Allowable Emissions and Units: 0.118 lb/ton dry feed	4. Equivalent Allowable Emissions: 22.15 lb/hour 79.9 tons/year
5. Method of Compliance (limit to 60 characters): Method 5	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): None	

Potential/Fugitive Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: Not Applicable
3. Potential Emissions: 17.67 lb/hour 64 tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions: Not Applicable [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: 0.16 lb/ton clinker Reference: Permittee	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.16 lb/ton x 110.42 tons/hour = 17.67 lb/hour @ 800,000 tons/yr = 64 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): None	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions: Not Applicable
3. Requested Allowable Emissions and Units: 0.16 lb/ton clinker	4. Equivalent Allowable Emissions: 17.67 lb/hour 64 tons/year
5. Method of Compliance (limit to 60 characters): CEM	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): None	

Potential/Fugitive Emissions

1. Pollutant Emitted: NOx	2. Total Percent Efficiency of Control: Not Applicable
3. Potential Emissions: 270.53 lb/hour 980 tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions: Not Applicable [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: 2.45 lb/ton Clinker Reference: Permittee	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 2.45 lb/ton x 110.42 tons/hour = 270.53 lb/hour @ 800,000 tons/yr = 980 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): None	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions: Not Applicable
3. Requested Allowable Emissions and Units: 2.45 lb/ton Clinker	4. Equivalent Allowable Emissions: 270.53 lb/hour 980 tons/year
5. Method of Compliance (limit to 60 characters): CEM	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): None	

Potential/Fugitive Emissions

1. Pollutant Emitted: CO		2. Total Percent Efficiency of Control: Not Applicable	
3. Potential Emissions: 276.05 lb/hour 1000 tons/year		4. Synthetically Limited? []	
5. Range of Estimated Fugitive Emissions: Not Applicable [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: 2.50 lb/ton Clinker Reference: Permittee		7. Emissions Method Code: 0	
8. Calculation of Emissions (limit to 600 characters): 2.50 lb/ton x 110.42 tons/hour = 276.05 lb/hour @ 800,000 tons/yr = 1000 tons/year			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): None			

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCPD		2. Future Effective Date of Allowable Emissions: Not Applicable	
3. Requested Allowable Emissions and Units: 2.50 lb/ton Clinker		4. Equivalent Allowable Emissions: 276.05 lb/hour 1000 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: Not Applicable
3. Potential Emissions: 11.81 lb/hour 42.9 tons/year	4. Synthetically Limited? [<input type="checkbox"/>]
5. Range of Estimated Fugitive Emissions: Not Applicable [<input type="checkbox"/>] 1 [<input type="checkbox"/>] 2 [<input type="checkbox"/>] 3 _____ to _____ tons/year	
6. Emission Factor: 0.107 lb/ton Clinker Reference: Permittee	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.107 lb/ton x 110.42 tons/hour = 11.81 lb/hour @ 800,000 tons/yr = 42.9 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): None	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCPD	2. Future Effective Date of Allowable Emissions: Not Applicable
3. Requested Allowable Emissions and Units: 0.107 lb/ton Clinker	4. Equivalent Allowable Emissions: 11.81 lb/hour 42.9 tons/year
5. Method of Compliance (limit to 60 characters): Method 25/25A & CEM	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): None	

Potential/Fugitive Emissions

1. Pollutant Emitted: SAM		2. Total Percent Efficiency of Control: Not Applicable	
3. Potential Emissions: 0.276 lb/hour 1.00 tons/year		4. Synthetically Limited? []	
5. Range of Estimated Fugitive Emissions: Not Applicable [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: 0.0025 lb/ton Clinker Reference: Permittee		7. Emissions Method Code: 3	
8. Calculation of Emissions (limit to 600 characters): 0.0025 lb/ton x 110.42 tons/hour = 0.276 lb/hour @ 800,000 tons/yr = 1.00 tons/year			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): None			

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCPSD		2. Future Effective Date of Allowable Emissions: Not Applicable	
3. Requested Allowable Emissions and Units: 0.0025 lb/ton Clinker		4. Equivalent Allowable Emissions: 0.276 lb/hour 1.00 tons/year	
5. Method of Compliance (limit to 60 characters): Method 8			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): None			

Potential/Fugitive Emissions

1. Pollutant Emitted: H021 – Beryllium	2. Total Percent Efficiency of Control: Not Applicable
3. Potential Emissions: No applicable requirement lb/hour tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions: Not Applicable [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 3
8. Calculation of Emissions (limit to 600 characters):	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Permittee requests that references to beryllium be removed from the Title V Permit, as there is no longer an applicable requirement.	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Permittee requests that references to beryllium be removed from the Title V Permit, as there is no longer an applicable requirement.	

Potential/Fugitive Emissions

1. Pollutant Emitted: DIOX	2. Total Percent Efficiency of Control: Not Applicable
3. Potential Emissions: 0.0000002 lb/hour 0.0000009 tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions: Not Applicable [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: 1.7×10^{-10} gr/dscf TEQ Reference: MACT	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 1.7×10^{-10} gr/dscf x 144000 dscfm x 60 min/hour x 1.0 lb/7000 gr = 0.0000002 lb/hour @ 8760 hours/yr = 0.0000009 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): No changes requested.	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: 6/14/2002
3. Requested Allowable Emissions and Units: 1.7×10^{-10} gr/dscf TEQ	4. Equivalent Allowable Emissions: 0.0000002 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: [<input checked="" type="checkbox"/>] Rule [<input type="checkbox"/>] 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): 62-212.400, FAC	

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

Continuous Monitoring System: Continuous Monitor 1 of 5

1. Parameter Code: VE	2. Pollutant(s): Opacity
3. CMS Requirement:	[<input checked="" type="checkbox"/>] Rule [<input type="checkbox"/>] Other
4. Monitor Information: Manufacturer: Sick AG Environmental Monitoring Model Number: OMD41 Serial Number: 00035 8008	
5. Installation Date:	6. Performance Specification Test Date: 1/17/2001
7. Continuous Monitor Comment (limit to 200 characters): COMS was recertified in July 2001 NSPS Subpart F & NESHAP Subpart LLL	

Continuous Monitoring System: Continuous Monitor 2 of 5

1. Parameter Code: EM	2. Pollutant(s): SO2, NOx
3. CMS Requirement:	[<input checked="" type="checkbox"/>] Rule [<input type="checkbox"/>] Other
4. Monitor Information: Manufacturer: Sick AG Environmental Monitoring Model Number: GM31-3 Serial Number: 8040 8002	
5. Installation Date:	6. Performance Specification Test Date: 1/17/2001
7. Continuous Monitor Comment (limit to 200 characters): 62-212.400, FAC CEMS was recertified in July 2001	

Continuous Monitoring System: Continuous Monitor 3 of 5

1. Parameter Code: EM	2. Pollutant(s): THC
3. CMS Requirement:	[] Rule [X] Other
4. Monitor Information: Manufacturer: Bernath Atomic GmbH & Co. Model Number: EuroFID Model 3010 Serial Number: 4387	
5. Installation Date:	6. Performance Specification Test Date: 7/30/2001
7. Continuous Monitor Comment (limit to 200 characters): None	

Continuous Monitoring System: Continuous Monitor 4 of 5

1. Parameter Code: TEMP	2. Pollutant(s): Not Applicable
3. CMS Requirement:	[X] Rule [] Other
4. Monitor Information: Will be submitted when available Manufacturer: Model Number: Serial Number:	
5. Installation Date: Expected June 2002	6. Performance Specification Test Date: Expected June 2002
7. Continuous Monitor Comment (limit to 200 characters): NESHAP Subpart LLL	

Continuous Monitoring System: Continuous Monitor 5 of 5

1. Parameter Code: FLOW	2. Pollutant(s): Not Applicable
3. CMS Requirement:	[] Rule [X] Other
4. Monitor Information: Manufacturer: Sick AG Environmental Monitoring Model Number: FLSE160-350 Serial Number: 7042096	
5. Installation Date: Expected June 2002	6. Performance Specification Test Date: 7/20/2000
7. Continuous Monitor Comment (limit to 200 characters): None	

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

Supplemental Requirements

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department
5. Compliance Test Report: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment: None

Additional Supplemental Requirements for Title V Air Operation Permit Applications

<p>11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>15. Acid Rain Part Application (Hard-copy Required)</p> <p><input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____</p> <p><input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____</p> <p><input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____</p> <p><input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____</p> <p><input type="checkbox"/> Phase II NO_x Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____</p> <p><input type="checkbox"/> Phase NO_x Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____</p> <p><input checked="" type="checkbox"/> Not Applicable</p>

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

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>			
<p>2. Regulated or Unregulated Emissions Unit? (Check one)</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Clinker Handling</p>			
<p>4. Emissions Unit Identification Number: ID: 004</p>		<p><input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown</p>	
<p>5. Emissions Unit Status Code: A</p>	<p>6. Initial Startup Date: 12/20/99</p>	<p>7. Emissions Unit Major Group SIC Code: 32</p>	<p>8. Acid Rain Unit? <input type="checkbox"/></p>
<p>9. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>The following pages show Title V permit conditions requested for change. All corresponding tables are also requested for change.</p>			

Subsection D.: This section addresses the following emissions unit

E.U. ID

<u>No.</u>	<u>Brief Description</u>
-004	Clinker Handling

FROM:

Emissions Unit 004 identifies the Clinker Handling system. Emission Points are described as follows: (EP01)- Clinker cooler discharge and breaker conveyor, (EP02)- Clinker silos, and (EP03)- Clinker Cooler (ESP) These silos are controlled by Fabric Filters and the Clinker Cooler, by an electrostatic precipitator.

TO:

Emissions Unit 004 identifies the Clinker Handling system. Emission Points are described as follows: (EP01)- Clinker cooler discharge and breaker conveyor, (EP02)- Clinker silos (L-06), (EP04)- Clinker silos (L-08), and (EP03)- Clinker Cooler (ESP) These silos are controlled by Fabric Filters and the Clinker Cooler, by an electrostatic precipitator.

FROM:

D.1. Capacity. The maximum production rate for the kiln clinker shall not exceed 95.8 tons per hour and 2300 tons per day and 712,500 tons per year. The clinker production rate shall be determined as a function of the preheater dry feed rate.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C, AC01-267311/PSD-FL-228]

TO:

D.1. Capacity. The maximum production rate for the kiln clinker shall not exceed 110.42 tons per hour (24-hour rolling average) and 2650 tons per day and 800,000 tons per year. The clinker production rate shall be determined as a function of the preheater dry feed rate.

FROM:

D.2. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year provided the 712,500 ton per year clinker limit is not exceeded.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C., AC01-267311/PSD-FL-228]

TO:

D.2. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year provided the 800,000 ton per year clinker limit is not exceeded.

FROM:

D.3. Particulate Matter. Particulate Matter emissions from the Clinker Cooler shall not exceed 0.10 pounds per ton of feed (dry basis) to the preheater and 0.16 pounds per ton of clinker. The PM shall also not exceed 14.99 lbs/hr and 55.70 tons/year.

[AC01-267311/PSD-FL-228 and BACT, 40 CFR 60.62(b)(1), 40 CFR 63.1345(a)(1) subsumed].

TO:

D.3. Particulate Matter. Particulate Matter emissions from the Clinker Cooler shall not exceed 0.082 pounds per ton of feed (dry basis) to the preheater and 0.139 pounds per ton of clinker. The PM shall also not exceed 15.39 lbs/hr and 55.70 tons/year.

FROM:

D.4. Particulate Matter (PM₁₀). PM₁₀ emissions from the cooler shall not exceed 0.13 pounds per ton of clinker.

[AC01-267311/PSD-FL-228 and BACT]

TO:

D.4. Particulate Matter (PM₁₀). PM₁₀ emissions from the cooler shall not exceed 0.118 pounds per ton of clinker.

Emissions Unit Control Equipment

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

Electrostatic Precipitator – High Efficiency
Fabric Filters – High Temperature

2. Control Device or Method Code(s): **010, 016**

Emissions Unit Details

1. Package Unit: **Not Applicable**

Manufacturer:

Model Number:

2. Generator Nameplate Rating: **Not Applicable** MW

3. Incinerator Information: **Not Applicable**

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: Not Applicable	mmBtu/hr
2. Maximum Incineration Rate: Not Applicable	lb/hr tons/day
3. Maximum Process or Throughput Rate: 110.42 TPH (24-hour rolling average)	
4. Maximum Production Rate: Not Applicable	
5. Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/year	8760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): None	

**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? K-15, L-03, L-06, L-08		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): K-15: Clinker Cooler Stack L-03: Clinker Transport L-06: Clinker Silos L-08: Clinker Silos (new baghouse to be installed)			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Not Applicable			
5. Discharge Type Code: V	6. Stack Height: 115 feet	7. Exit Diameter: 9 feet	
8. Exit Temperature: 480 °F	9. Actual Volumetric Flow Rate: 160000 acfm	10. Water Vapor: Not Applicable %	
11. Maximum Dry Standard Flow Rate: Not Applicable dscfm		12. Nonstack Emission Point Height: Not Applicable feet	
13. Emission Point UTM Coordinates: Not Available within 0.01 Kilometer Zone: East (km): North (km):			
14. Emission Point Comment (limit to 200 characters): K-15 is representative emission point with greatest emission rate.			

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

Segment Description and Rate: Segment 1 of 2

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: 110.42 (24-hour rolling average)	5. Maximum Annual Rate: 800,000	6. Estimated Annual Activity Factor: Not Applicable
7. Maximum % Sulfur: Not Applicable	8. Maximum % Ash: Not Applicable	9. Million Btu per SCC Unit: Not Applicable
10. Segment Comment (limit to 200 characters): None		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Mineral Products: Cement Manufacturing – Dry Process: Clinker Silos		
2. Source Classification Code (SCC): 3-05-006-15		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 110.42 (24-hour rolling average)	5. Maximum Annual Rate: 800,000	6. Estimated Annual Activity Factor: Not Applicable
7. Maximum % Sulfur: Not Applicable	8. Maximum % Ash: Not Applicable	9. Million Btu per SCC Unit: Not Applicable
10. Segment Comment (limit to 200 characters): None		

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: 99%
3. Potential Emissions: 15.39 lb/hour 55.70 tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions: Not Applicable [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factors: 0.082 lb/ton dry feed Reference: Permittee	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.082 lb/ton x 187.71 tons/hr = 15.39 lb/hour @ 1,360,000 tons/yr = 55.70 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Potential emissions for clinker cooler only – other emissions points are not affected by rate change.	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions: Not Applicable
3. Requested Allowable Emissions and Units: 0.082 lb/ton dry feed	4. Equivalent Allowable Emissions: 15.39 lb/hour 55.70 tons/year
5. Method of Compliance (limit to 60 characters): Method 5	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Allowable emissions for clinker cooler only – other emissions points are not affected by rate change.	

Potential/Fugitive Emissions

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: 99%
3. Potential Emissions: 13.03 lb/hour 47.35 tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions: Not Applicable [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factors: 0.118 lb/ton clinker Reference: Permittee	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.118 lb/ton x 110.42 tons/hr = 13.03 lb/hour @ 800,000 tons/yr = 47.2 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Potential emissions for clinker cooler only – other emissions points are not affected by rate change.	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions: Not Applicable
3. Requested Allowable Emissions and Units: 0.118 lb/ton clinker	4. Equivalent Allowable Emissions: 13.03 lb/hour 47.2 tons/year
5. Method of Compliance (limit to 60 characters): Method 5	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Allowable emissions for clinker cooler only – other emissions points are not affected by rate change.	

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

Supplemental Requirements

<p>1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department</p>
<p>2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department</p>
<p>4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested On file with Department</p>
<p>5. Compliance Test Report: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>10. Supplemental Requirements Comment: None</p>

Additional Supplemental Requirements for Title V Air Operation Permit Applications

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