



**KOOGLER & ASSOCIATES, INC.**  
*ENVIRONMENTAL SERVICES*  
4014 NW 13<sup>th</sup> STREET  
GAINESVILLE, FL 32609-1923  
www.kooglerassociates.com  
352/377-5822 ■ FAX/377-5822

*via email only*

Jeff Koerner, Administrator  
Air Permitting and Compliance Program  
Division of Air Resource Management  
Florida Department of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, FL 32399  
[Jeff.koerner@dep.state.fl.us](mailto:Jeff.koerner@dep.state.fl.us)

RE: Argos Newberry Cement Plant, Facility ID: 0010087  
Air Construction Permit Application  
Kilns ESP to Fabric Filter Conversion

Dear Jeff,

On behalf of Argos Cement LLC (Argos), I am submitting to you an application to request an air construction permit to authorize conversion of the electrostatic precipitators (ESP) to fabric filters that control emissions from the kiln systems of lines 1 and 2 (EU003 and EU010) at the subject facility. In follow up to this email, I will make sure that you receive the hardcopy seal and signature pages for the Department files.

In concert with the conversion of the ESPs to fabric filters for lines 1 and 2, Argos provides this courtesy notice of the following tentative new or replacement continuous monitors on both the kilns and clinker coolers.

**EU003**

*Existing monitors to be removed*

SICK GM31 (NO<sub>x</sub>, SO<sub>2</sub>, temperature)  
SICK GM35 (CO<sub>2</sub>)  
SICK EuroFID (THC)  
SICK OMD41 (opacity)  
SICK FlowSIC FLSE106H (flow)

*New/Replacement monitors*

SICK MCS100E/HW (NO, NO<sub>2</sub>, SO<sub>2</sub>, CO, CO<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>O)  
SICK GMS811-FIDOR (THC)  
SICK FlowSIC 100H (flow)  
SICK Dusthunter T200 (opacity)  
SICK Dusthunter SP100 (PM CPMS)  
Temperature RTD

**EU004**

*Existing monitor to be removed*  
SICK OMD41 (opacity)

*New/Replacement monitors*  
SICK Dusthunter T200 (opacity)  
SICK Dusthunter SP100 (PM CPMS)

**EU010**

*Existing monitor to be removed*  
JUM 109A (THC)

*New/Replacement monitors*  
SICK GMS811-FIDOR (THC)  
SICK Dusthunter SP100 (PM CPMS)

**EU011**

*New/Replacement monitors*  
SICK Dusthunter SP100 (PM CPMS)

The performance testing for these monitors will be in accordance with the applicable rules.

Please contact me if you have any questions on the application. Thank you for your time and I look forward to working with you and your staff on this application.

Sincerely,



Max Lee, Ph.D., P.E.  
President, Koogler and Associates, Inc.  
[mlee@kooglerassociates.com](mailto:mlee@kooglerassociates.com)

ec: William Voshell Jr., Argos Cement LLC, [WVoshell@argos-us.com](mailto:WVoshell@argos-us.com)  
Chris Horner, Argos Cement LLC, [CHorner@argos-us.com](mailto:CHorner@argos-us.com)  
Henry Gotsch, Argos Cement LLC, [OGotsch@argos-us.com](mailto:OGotsch@argos-us.com)  
David Read, Florida DEP DARM, [david.read@dep.state.fl.us](mailto:david.read@dep.state.fl.us)  
Richard Rachal, Florida DEP NE District, [Richard.Rachal@dep.state.fl.us](mailto:Richard.Rachal@dep.state.fl.us)  
Hastings Read, Florida DEP DARM, [hastings.read@dep.state.fl.us](mailto:hastings.read@dep.state.fl.us)



# Department of Environmental Protection

## Division of Air Resource Management

### APPLICATION FOR AIR PERMIT - LONG FORM

#### I. APPLICATION INFORMATION

**Air Construction Permit** – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

**Air Operation Permit** – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial, revised, or renewal Title V air operation permit.

**To ensure accuracy, please see form instructions.**

#### Identification of Facility

1. Facility Owner/Company Name: <b>Argos Cement LLC</b>	
2. Site Name: <b>Argos Newberry Cement Plant</b>	
3. Facility Identification Number: <b>0010087</b>	
4. Facility Location... Street Address or Other Locator: <b>4000 NW CR 235</b> City: <b>Newberry</b> County: <b>Alachua</b> Zip Code: <b>32669</b>	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

#### Application Contact

1. Application Contact Name: <b>Max Lee, Ph.D, P.E.</b>	
2. Application Contact Mailing Address... Organization/Firm: <b>Koogler and Associates, Inc</b> Street Address: <b>4014 NW 13<sup>th</sup> Street</b> City: <b>Gainesville</b> State: <b>Florida</b> Zip Code: <b>32609</b>	
3. Application Contact Telephone Numbers... Telephone: <b>(352) 377 - 5822</b> ext. <b>19</b> Fax: <b>(352) 377 - 7158</b>	
4. Application Contact E-mail Address: <a href="mailto:mlee@kooglerassociates.com"><b>mlee@kooglerassociates.com</b></a>	

#### Application Processing Information (DEP Use)

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

## APPLICATION INFORMATION

### Purpose of Application

**This application for air permit is being submitted to obtain: (Check one)**

#### **Air Construction Permit**

- Air construction permit.
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

#### **Air Operation Permit**

- Initial Title V air operation permit.
- Title V air operation permit revision.
- Title V air operation permit renewal.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

#### **Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)**

- Air construction permit and Title V permit revision, incorporating the proposed project.
- Air construction permit and Title V permit renewal, incorporating the proposed project.

**Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:**

- I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

### Application Comment

**Application is for the removal of the ESPs currently installed on kilns 1 and 2 and for the installation of baghouses. The reason for this conversion is in anticipation of compliance to the upcoming NESHAP LLL PM limits for kilns.**

**APPLICATION INFORMATION**

**Scope of Application**

<b>Emissions Unit ID Number</b>	<b>Description of Emissions Unit</b>	<b>Air Permit Type</b>	<b>Air Permit Processing Fee</b>
<b>003</b>	<b>Kiln System Line 1</b>	<b>NA</b>	<b>NA</b>
<b>010</b>	<b>In-line Kiln / Raw Mill Line 2</b>	<b>NA</b>	<b>NA</b>

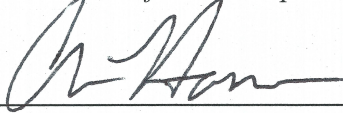
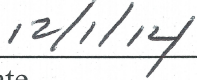
**Application Processing Fee**

Check one:  Attached - Amount: \$ \_\_\_\_\_  Not Applicable

## APPLICATION INFORMATION

### Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name : <b>Chris Horner, Plant Manager</b>
2. Owner/Authorized Representative Mailing Address... Organization/Firm: <b>Argos Cement LLC</b> Street Address: <b>4000 NW CR 235</b> City: <b>Newberry</b> State: <b>Florida</b> Zip Code: <b>32669</b>
3. Owner/Authorized Representative Telephone Numbers... Telephone: <b>(352) 472 - 4722</b> ext. <b>130</b> Fax: <b>(352) 472 - 2449</b>
4. Owner/Authorized Representative E-mail Address:
5. Owner/Authorized Representative Statement:  <i>I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.</i>   _____ Signature   _____ Date

## APPLICATION INFORMATION

### Application Responsible Official Certification

**Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation permit. If there are multiple responsible officials, the “application responsible official” need not be the “primary responsible official.”**

1. Application Responsible Official Name:
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source or CAIR source.
3. Application Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
4. Application Responsible Official Telephone Numbers... Telephone: ( ) - ext. Fax: ( ) -
5. Application Responsible Official E-mail Address:

**APPLICATION INFORMATION**

6. Application Responsible Official Certification:

I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. 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 and all other applicable requirements identified in this application to which the Title V source is subject. 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 the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.

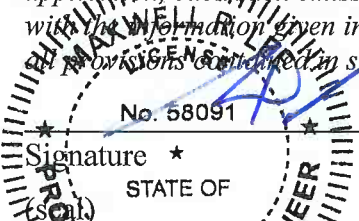
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



# FACILITY INFORMATION

## Professional Engineer Certification

1. Professional Engineer Name: <b>Max Lee, Ph.D. P.E.</b> Registration Number: <b>58091</b>
2. Professional Engineer Mailing Address... Organization/Firm: <b>Koogler and Associates, Inc.</b> Street Address: <b>4014 NW 13<sup>th</sup> Street</b> City: <b>Gainesville</b> State: <b>Florida</b> Zip Code: <b>32609</b>
3. Professional Engineer Telephone Numbers... Telephone: <b>(352) 377-5822</b> ext.19 Fax: <b>(352) 377-7158</b>
4. Professional Engineer E-mail Address: <b><u>mlee@kooglerassociates.com</u></b>
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i>  (1) <i>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</i>  (2) <i>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.</i>  (3) <i>If the purpose of this application is to obtain a Title V air operation permit (check here <input type="checkbox"/>, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.</i>  (4) <i>If the purpose of this application is to obtain an air construction permit (check here <input checked="" type="checkbox"/>, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/>, 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.</i>  (5) <i>If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/> 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 the provisions contained in such permit.</i>  <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  <p>No. 58091 Signature * STATE OF FLORIDA PROFESSIONAL ENGINEER</p> </div> <div style="text-align: center;"> <p><u>12/1/14</u> Date</p> </div> </div>

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates... Zone <b>17</b> <b>346.4</b> East (km) <b>3285.7</b> North (km)		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) <b>29°57'45"</b> Longitude (DD/MM/SS) <b>82°51'03"</b>	
3. Governmental Facility Code: <b>0</b>	4. Facility Status Code: <b>A</b>	5. Facility Major Group SIC Code: <b>32</b>	6. Facility SIC(s): <b>3241</b>
7. Facility Comment : <b>None</b>			

#### Facility Contact

1. Facility Contact Name: <b>Henry Gotsch - Environmental Manager</b>
2. Facility Contact Mailing Address... Organization/Firm: <b>Argos Cement LLC</b> Street Address: <b>4000 NW CR 235</b> City: <b>Newberry</b> State: <b>Florida</b> Zip Code: <b>32669</b>
3. Facility Contact Telephone Numbers: Telephone: <b>352-472-4722</b> ext. <b>121</b> Fax: <b>352-472-2449</b>
4. Facility Contact E-mail Address: <a href="mailto:OGotsch@argos-us.com"><b>OGotsch@argos-us.com</b></a>

#### Facility Primary Responsible Official

**Complete if an "application responsible official" is identified in Section I that is not the facility "primary responsible official."**

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: City:    State:    Zip Code:
3. Facility Primary Responsible Official Telephone Numbers... Telephone: ( ) -      ext.      Fax: ( ) -
4. Facility Primary Responsible Official E-mail Address:

## FACILITY INFORMATION

### Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”

1. <input type="checkbox"/> Small Business Stationary Source	<input checked="" type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source	
3. <input checked="" type="checkbox"/> Title V Source	
4. <input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. <input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7. <input type="checkbox"/> Synthetic Minor Source of HAPs	
8. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. <input checked="" type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. <input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	

**FACILITY INFORMATION**

**List of Pollutants Emitted by Facility**

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
<b>PM</b>	<b>A</b>	<b>N</b>
<b>PM<sub>10</sub></b>	<b>A</b>	<b>N</b>
<b>SO<sub>2</sub></b>	<b>B</b>	<b>N</b>
<b>NO<sub>x</sub></b>	<b>A</b>	<b>N</b>
<b>CO</b>	<b>A</b>	<b>N</b>
<b>VOC</b>	<b>B</b>	<b>N</b>
<b>THC</b>	<b>B</b>	<b>N</b>
<b>H114</b>	<b>B</b>	<b>N</b>



## FACILITY INFORMATION

### C. FACILITY ADDITIONAL INFORMATION

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

1.	Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <b><u>TV renewal</u></b>
2.	Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <b><u>TV renewal</u></b>
3.	Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <b><u>TV renewal</u></b>

#### Additional Requirements for Air Construction Permit Applications

1.	Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (existing permitted facility)
2.	Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): <input checked="" type="checkbox"/> Attached, Document ID: <b><u>in application</u></b>
3.	Rule Applicability Analysis: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (existing permitted facility)
4.	List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
5.	Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6.	Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7.	Source Impact Analysis (Rule 62-212.400(5), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8.	Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9.	Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10.	Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**FACILITY INFORMATION**

**C. FACILITY ADDITIONAL INFORMATION (CONTINUED)**

**Additional Requirements for FESOP Applications**

1. List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility)
--

**Additional Requirements for Title V Air Operation Permit Applications**

1. List of Insignificant Activities: (Required for initial/renewal applications only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (revision application)
--

2. Identification of Applicable Requirements: (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (revision application with no change in applicable requirements)
--

3. Compliance Report and Plan: (Required for all initial/revision/renewal applications) <input type="checkbox"/> Attached, Document ID: _____ Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.
--

4. List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities Onsite but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable
---

5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
--

6. Requested Changes to Current Title V Air Operation Permit: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
---





## EMISSIONS UNIT INFORMATION

Section [1] of [2] EU 003 Kiln System – Line 1

### III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application** - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application** - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an “unregulated emissions unit” does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application** – Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

Section [1]

of [2]

EU 003 Kiln System – Line 1

**A. GENERAL EMISSIONS UNIT INFORMATION****Title V Air Operation Permit Emissions Unit Classification**

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section: **In-line Kiln/Raw Mill System – Line 1**

3. Emissions Unit Identification Number: **003**

4. Emissions Unit Status Code:

**A**

5. Commence Construction Date:

6. Initial Startup Date: **12/17/99**

7. Emissions Unit Major Group SIC Code: **32**

8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

Hg Budget Unit

9. Package Unit: **Not Applicable**

Manufacturer:

Model Number:

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

11. Emissions Unit Comment

**EMISSIONS UNIT INFORMATION**

Section [1] of [2] EU 003 Kiln System – Line 1

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

1. Control Equipment/Method Description:  
**High-efficiency Electrostatic Precipitator (ESP)**

2. Control Device or Method Code: **010**

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

1. Control Equipment/Method Description:  
**SNCR**

2. Control Device or Method Code: **107**

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

1. Control Equipment/Method Description:  
**Multi-Stage Combustion (MSC)**

2. Control Device or Method Code: **025**

**Future ESP Replacement: Emissions Unit Control Equipment/Method:** Control 1 of 1

1. Control Equipment/Method Description:  
**To be installed: Fabric Filter - High Temperature (T > 250F).**  
**Emission point request to be named E19-01**

2. Control Device or Method Code: **016**

**B. EMISSIONS UNIT CAPACITY INFORMATION**  
 (Optional for unregulated emissions units.)

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Process or Throughput Rate: <b>See Comment</b>		
2. Maximum Production Rate: <b>See Comment</b>		
3. Maximum Heat Input Rate: <b>364</b> million Btu/hr		
4. Maximum Incineration Rate: <b>Not Applicable</b> pounds/hr tons/day		
5. Requested Maximum Operating Schedule:		
	<b>24</b> hours/day	<b>7</b> days/week
	<b>52</b> weeks/year	<b>8,760</b> hours/year
6. Operating Capacity/Schedule Comment:		
<p><b>The preheater dry feed rate is the mass of material (on a dry basis) entering the preheater/kiln. The preheater dry feed rate is limited to 183.4 TPH on a 24-hr rolling average, 191.4 TPH (peak hourly rate), and 1,331,000 TPY.</b></p> <p><b>The kiln clinker production rate shall not exceed 110.2 tons per hour (TPH) on a 24-hr rolling average, 115.0 TPH (peak hourly rate), and 2650 tons per day (TPD). On an annual basis, the clinker production rate shall not exceed 800,000 tons per year (TPY). The clinker production rate will be determined as a function of the preheater dry feed rate.</b></p>		

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

EU 003 Kiln System – Line 1

**C. EMISSION POINT (STACK/VENT) INFORMATION****(Optional for unregulated emissions units.)****Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: <b>E-21, Kiln</b>		2. Emission Point Type Code: <b>1</b>	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: <b>Not Applicable</b>			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>Not Applicable</b>			
5. Discharge Type Code: <b>V</b>	6. Stack Height: <b>314.75</b> feet	7. Exit Diameter: <b>9.42</b> feet	
8. Exit Temperature: <b>194°F</b>	9. Actual Volumetric Flow Rate: <b>220,000</b> acfm*	10. Water Vapor: <b>17%</b>	
11. Maximum Dry Standard Flow Rate: <b>150,000</b> dscfm		12. Nonstack Emission Point Height: <b>Not Applicable</b> feet	
13. Emission Point UTM Coordinates... Zone: <b>17R</b> East (km): <b>346820</b> North (km): <b>3285536</b>		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) <b>29/41/27 N</b> Longitude (DD/MM/SS) <b>82/34/57 W</b>	
15. Emission Point Comment: <b>New baghouse air to cloth ratio expected to be 3.28 ft/min or less. Membrane filter bags will be used.</b> <b>Location by Google Earth</b>  <b>*Represents Raw Mill up conditions. Raw Mill down flow rate near 204,000 acfm.</b>			

**EMISSIONS UNIT INFORMATION**

Section [1] of [2] EU 003 Kiln System – Line 1

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

**Segment Description and Rate: Segment 1 of 10**

1. Segment Description (Process/Fuel Type): <b>Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Preheater/Precalciner Kiln</b>		
2. Source Classification Code (SCC): <b>3-05-006-23</b>	3. SCC Units: <b>Tons Processed</b>	
4. Maximum Hourly Rate: <b>191.4</b>	5. Maximum Annual Rate: <b>1,331,000</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>Not Applicable</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>Not Applicable</b>
10. Segment Comment: <b>The max hourly rate is the peak hourly rate. The 24-hr rolling average maximum is 183.4 TPH. Represents the preheater dry feed rate.</b>		

**Segment Description and Rate: Segment 2 of 10**

1. Segment Description (Process/Fuel Type): <b>Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Preheater/Precalciner Kiln</b>		
2. Source Classification Code (SCC): <b>3-05-006-23</b>	3. SCC Units: <b>Tons Clinker</b>	
4. Maximum Hourly Rate: <b>115.0</b>	5. Maximum Annual Rate: <b>800,000</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>Not Applicable</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: Not Applicable
10. Segment Comment: <b>The max hourly rate is the peak hourly rate. The 24-hr rolling average maximum is 110.2 TPH and the daily rate is 2,650 TPD. Represents the clinker production rate.</b>		

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

EU 003 Kiln System – Line 1

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

**Segment Description and Rate: Segment 3 of 10**

1. Segment Description (Process/Fuel Type): <b>Industrial Processes; In-process Fuel Use; Bituminous Coal; Cement Kiln</b>		
2. Source Classification Code (SCC): <b>3-90-002-01</b>		3. SCC Units: <b>Tons Burned</b>
4. Maximum Hourly Rate: <b>14.0</b>	5. Maximum Annual Rate: <b>122,640</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>1.75</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>26</b>
10. Segment Comment: <b>The maximum annual rate is based on the hourly rate and 8,760 hr/yr. Based on 364 MMBtu/hr maximum heat input rate.</b>		

**Segment Description and Rate: Segment 4 of 10**

1. Segment Description (Process/Fuel Type): <b>Industrial Processes; In-process Fuel Use; Solid Waste (Tires); General</b>		
2. Source Classification Code (SCC): <b>3-90-012-99</b>		3. SCC Units: <b>Tons Burned</b>
4. Maximum Hourly Rate: <b>4.2</b>	5. Maximum Annual Rate: <b>36,792</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>Not Applicable</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>28</b>
10. Segment Comment: <b>The hourly rate is equivalent to approximately 400 tires/hour. Permit currently limits tires to 30 percent of heat input.</b>		

**EMISSIONS UNIT INFORMATION**

Section [1] of [2] EU 003 Kiln System – Line 1

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

**Segment Description and Rate: Segment 5 of 10**

1. Segment Description (Process/Fuel Type): <b>Industrial Processes; In-Process Fuel Use; Distillate Oil (Unused); Cement Kiln/Dryer</b>		
2. Source Classification Code (SCC): <b>3-90-005-02</b>		3. SCC Units: <b>1,000 Gallons Burned</b>
4. Maximum Hourly Rate: <b>Not Applicable</b>	5. Maximum Annual Rate: <b>125</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>0.05</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>Not Applicable</b>
10. Segment Comment: <b>The maximum annual rate is for kiln startup.</b>		

**Segment Description and Rate: Segment 6 of 10**

1. Segment Description (Process/Fuel Type): <b>Industrial Processes; In-Process Fuel Use; Liquefied Petroleum Gas (Propane); General</b>		
2. Source Classification Code (SCC): <b>3-90-010-89</b>		3. SCC Units: <b>1,000 Gallons Burned</b>
4. Maximum Hourly Rate: <b>Not Applicable</b>	5. Maximum Annual Rate: <b>Not Applicable</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>Not Applicable</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>Not Applicable</b>
10. Segment Comment: <b>Propane usage is limited to startup in lieu of tires in the first stage of the multistage combustor.</b>		



**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

EU 003 Kiln System – Line 1

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

**Segment Description and Rate:** Segment 7 of 10

1. Segment Description (Process/Fuel Type): <b>Industrial Processes; In-process Fuel Use; Coke; General</b>		
2. Source Classification Code (SCC): <b>3-90-008-89</b>	3. SCC Units: <b>Tons Burned</b>	
4. Maximum Hourly Rate: <b>Not Applicable</b>	5. Maximum Annual Rate: <b>Not Applicable</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>Not Applicable</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>Not Applicable</b>
10. Segment Comment: <b>The maximum petroleum coke rate will not exceed 91 MMBtu/hr nor 25% of total kiln heat input.</b>		

**Segment Description and Rate:** Segment 8 of 10

1. Segment Description (Process/Fuel Type): <b>Industrial Processes; In-process Fuel Use; Solid Waste (Fly Ash); General</b>		
2. Source Classification Code (SCC): <b>3-90-012-89</b>	3. SCC Units: <b>Tons Burned</b>	
4. Maximum Hourly Rate: <b>Not Applicable</b>	5. Maximum Annual Rate: <b>Not Applicable</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>Not Applicable</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>Not Applicable</b>
10. Segment Comment: <b>The maximum flyash feed rate will not exceed 19 MMBtu/hr nor 5% of total kiln heat input.</b>		

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

EU 003 Kiln System – Line 1

**D. SEGMENT (PROCESS/FUEL) INFORMATION****Segment Description and Rate: Segment 9 of 10**

1. Segment Description (Process/Fuel Type): <b>Industrial Processes; In-process Fuel Use; Natural Gas; Cement Kiln/Dryer</b>		
2. Source Classification Code (SCC): <b>3-90-006-02</b>		3. SCC Units: <b>Million Cubic Feet Burned</b>
4. Maximum Hourly Rate: <b>Not Applicable</b>	5. Maximum Annual Rate: <b>Not Applicable</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>Not Applicable</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>Not Applicable</b>
10. Segment Comment: <b>The maximum natural gas feed rate will not exceed 364 MMBtu/hr which is design capacity of kiln.</b>		

**Segment Description and Rate: Segment 10 of 10**

1. Segment Description (Process/Fuel Type): <b>Industrial Processes; In-Process Fuel Use; AFM – Kiln and Precalciner</b>		
2. Source Classification Code (SCC): <b>3-90-012-89</b>		3. SCC Units: <b>Tons Burned</b>
4. Maximum Hourly Rate: <b>See Appendix 1</b>	5. Maximum Annual Rate: <b>See Appendix 1</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>See Appendix 1</b>	8. Maximum % Ash:	9. Million Btu per SCC Unit: <b>See Appendix 1</b>
10. Segment Comment: <b>Segment represent non-hazardous fuel materials. Currently only tires are allowed AFM.</b>		

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

EU 003 Kiln System – Line 1

**E. EMISSIONS UNIT POLLUTANTS****List of Pollutants Emitted by Emissions Unit**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
<b>PM</b>	<b>Current (010) Future (016 )</b>	<b>Not Applicable</b>	<b>EL</b>
<b>PM<sub>10</sub></b>	<b>Current (010) Future (016 )</b>	<b>Not Applicable</b>	<b>EL</b>
<b>Hg</b>	<b>Not Applicable</b>	<b>Not Applicable</b>	<b>EL</b>
<b>SO<sub>2</sub></b>	<b>Not Applicable</b>	<b>Not Applicable</b>	<b>EL</b>
<b>NO<sub>x</sub></b>	<b>107,025</b>	<b>Not Applicable</b>	<b>EL</b>
<b>CO</b>	<b>Not Applicable</b>	<b>Not Applicable</b>	<b>EL</b>
<b>VOC</b>	<b>Not Applicable</b>	<b>Not Applicable</b>	<b>EL</b>
<b>SAM</b>	<b>Not Applicable</b>	<b>Not Applicable</b>	<b>EL</b>

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

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

**Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

1. Pollutant Emitted: <b>PM</b>		2. Total Percent Efficiency of Control: <b>99+%</b>	
3. Potential Emissions: <b>25.9 lb/hour</b>		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		<b>94 tons/year</b>	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor:  Reference: <b>0010087-048-AV permit limit</b>		7. Emissions Method Code: <b>0</b>	
8.a. Baseline Actual Emissions (if required): <b>N/A tons/year</b>		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:  <b>Current potential based on existing permit limitations. The upcoming CISWI compliance will reduce PM emissions to 4.6 mg/dscm.</b>			
11. Potential, Fugitive, and Actual Emissions Comment: <b>Note that only PM is addressed in this application for this EU because only PM will be affected by this baghouse which is replacing an ESP.</b>			

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

EU 003 Kiln System – Line 1

**POLLUTANT DETAIL INFORMATION**

Page [1] of [9]

Particulate Matter - PM

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
ALLOWABLE EMISSIONS****Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.****Allowable Emissions** Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: <b>BACT</b>	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: <b>25.9 lb/hr</b>	4. Equivalent Allowable Emissions: <b>25.9 lb/hour      94 tons/year</b>
5. Method of Compliance: <b>Annual Method 5</b>	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: <b>CISWI (future limitation)</b>	2. Future Effective Date of Allowable Emissions: <b>tbd</b>
3. Allowable Emissions and Units: <b>4.6 mg/dscm</b>	4. Equivalent Allowable Emissions: <b>2.6 lb/hour      11.4 tons/year</b>
5. Method of Compliance: <b>Method 5 or 5i :</b>	
6. Allowable Emissions Comment (Description of Operating Method): <b>CISWI PM limit will reduce emissions. 4250 dscm (~153,000 dscfm) x 4.6 mg/dscm x lb/453,000 mg x 60 min/hr = 2.6 lb/hr 2.6 lb/hr x 8760 hr/yr /2000 = 11.4 ton/yr</b>	

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

EU 003 Kiln System – Line 1

**POLLUTANT DETAIL INFORMATION**

Page [2] of [9]

Particulate Matter – PM<sub>10</sub>

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

1. Pollutant Emitted: <b>PM<sub>10</sub></b>		2. Total Percent Efficiency of Control: <b>99+%</b>	
3. Potential Emissions: <b>22.1 lb/hour</b>		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor:  Reference: <b>0010087-048-AV Permit limit</b>		7. Emissions Method Code: <b>0</b>	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:  <b>Current potential based on existing permit limitations. The upcoming CISWI compliance will reduce PM emissions to 4.6 mg/dscm.</b>			
11. Potential, Fugitive, and Actual Emissions Comment:			

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

EU 003 Kiln System – Line 1

**POLLUTANT DETAIL INFORMATION**

Page [2] of [9]

Particulate Matter – PM<sub>10</sub>**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
ALLOWABLE EMISSIONS****Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.****Allowable Emissions** Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: <b>BACT</b>	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: <b>22.1 lb/hr</b>	4. Equivalent Allowable Emissions: <b>22.1 lb/hour      80 tons/year</b>
5. Method of Compliance: <b>Annual Method 5 (assuming all PM measured is PM<sub>10</sub>).</b>	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: <b>CISWI (future limitation)</b>	2. Future Effective Date of Allowable Emissions: <b>tbd</b>
3. Allowable Emissions and Units: <b>4.6 mg/dscm</b>	4. Equivalent Allowable Emissions: <b>2.6 lb/hour      11.4 tons/year</b>
5. Method of Compliance: <b>Method 5 or 5i</b>	
6. Allowable Emissions Comment (Description of Operating Method):  <b>Estimate of equivalent allowable emissions. 4335 dscm (~153,000 dscfm) x 4.6 mg/dscm x lb/453,000 mg x 60 min/hr = 2.6 lb/hr 2.6 lb/hr x 8760 hr/yr x ton/2,000 lb = 11.4 ton/yr</b>	





**H. CONTINUOUS MONITOR INFORMATION**

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

**Continuous Monitoring System:** Continuous Monitor 1 of 2

1. Parameter Code: <b>VE</b>	2. Pollutant(s): <b>Not Applicable</b>
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: <b>SICK AG Environmental Monitoring</b> Model Number: <b>OMD41</b> Serial Number:	
5. Installation Date: <b>Prior to 2001</b>	6. Performance Specification Test Date: <b>Initial P.S. done on 1/22/01</b>
7. Continuous Monitor Comment: <b>COM is required per BACT determination permit. [Permit No. AC01-267311/PSD-FL-228].</b>	

**Continuous Monitoring System:** Continuous Monitor 2 of 2

1. Parameter Code: <b>PM - CPMS</b>	2. Pollutant(s): <b>PM</b>
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information. Manufacturer: to be determined Model Number: Serial Number:	
5. Installation Date: <b>future</b>	6. Performance Specification Test Date: <b>Future</b>
7. Continuous Monitor Comment: <b>Parametric monitoring of PM to comply to CISWI.</b>	

**EMISSIONS UNIT INFORMATION**

Section [1] of [2]

EU 003 Kiln System – Line 1

**I. EMISSIONS UNIT ADDITIONAL INFORMATION**

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

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: <u>NA</u> <input checked="" type="checkbox"/> Previously Submitted, Date <u>TV renewal</u>
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: <u>NA</u> <input checked="" type="checkbox"/> Previously Submitted, Date <u>TV renewal</u>
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>provided in application</u> <input type="checkbox"/> Previously Submitted, Date <u>  </u>
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID <u>          </u> <input type="checkbox"/> Previously Submitted, Date <u>          </u> <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: <u>          </u> <input checked="" type="checkbox"/> Previously Submitted, Date <u>TV renewal</u> <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: <u>          </u> Test Date(s)/Pollutant(s) Tested: <u>          </u> <input type="checkbox"/> Previously Submitted, Date: <u>          </u> Test Date(s)/Pollutant(s) Tested: <u>          </u> <input type="checkbox"/> To be Submitted, Date (if known): <u>          </u> Test Date(s)/Pollutant(s) Tested: <u>          </u> <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute: <input type="checkbox"/> Attached, Document ID: <u>          </u> <input checked="" type="checkbox"/> Not Applicable



## EMISSIONS UNIT INFORMATION

Section [2] of [2]

EU 010 Kiln/Raw Mill – Line 2

### III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application** - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application** - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an “unregulated emissions unit” does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application** – Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

Section [2] of [2] EU 010 Kiln/Raw Mill – Line 2

**A. GENERAL EMISSIONS UNIT INFORMATION**

**Title V Air Operation Permit Emissions Unit Classification**

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section: **Kiln/Raw Mill – Line 2**

3. Emissions Unit Identification Number: **010**

4. Emissions Unit Status Code <b>A</b>	5. Commence Construction Date: <b>July 25, 2005</b>	6. Initial Startup Date: <b>March 10, 2010</b>	7. Emissions Unit Major Group SIC Code: <b>32</b>
--	---	--	---

8. Federal Program Applicability: (Check all that apply) **Not Applicable**

Acid Rain Unit

CAIR Unit

Hg Budget Unit

9. Package Unit: **Not Applicable**

Manufacturer: \_\_\_\_\_ Model Number: \_\_\_\_\_

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

11. Emissions Unit Comment:

**EMISSIONS UNIT INFORMATION**

Section [2] of [2] EU 010 Kiln/Raw Mill – Line 2

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

1. Control Equipment/Method Description:

**High-Efficiency Electrostatic Precipitator (ESP)**

2. Control Device or Method Code: **010**

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

1. Control Equipment/Method Description:

**Selective Non-Catalytic Reduction (SNCR)**

2. Control Device or Method Code: **107**

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

1. Control Equipment/Method Description:

**Multi-Stage Combustion (MSC)**

2. Control Device or Method Code: **025**

**Future ESP Replacement: Emissions Unit Control Equipment/Method:** Control 1 of 1

1. Control Equipment/Method Description:

**To be installed: Fabric Filter - High Temperature (T > 250F).  
Emission point request to be named 2E19-01**

2. Control Device or Method Code: **016**

**EMISSIONS UNIT INFORMATION**

Section [2] of [2] EU 010 Kiln/Raw Mill – Line 2

**B. EMISSIONS UNIT CAPACITY INFORMATION**

(Optional for unregulated emissions units.)

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Process or Throughput Rate: <b>See Comment</b>				
2. Maximum Production Rate: <b>See Comment</b>				
3. Maximum Heat Input Rate: <b>400</b> million Btu/hr				
4. Maximum Incineration Rate: <b>Not Applicable</b> pounds/hr tons/day				
5. Requested Maximum Operating Schedule: <table border="0" style="width: 100%;"><tr><td style="text-align: center;"><b>24</b> hours/day</td><td style="text-align: right;"><b>7</b> days/week</td></tr><tr><td style="text-align: center;"><b>52</b> weeks/year</td><td style="text-align: right;"><b>8670</b> hours/year</td></tr></table>	<b>24</b> hours/day	<b>7</b> days/week	<b>52</b> weeks/year	<b>8670</b> hours/year
<b>24</b> hours/day	<b>7</b> days/week			
<b>52</b> weeks/year	<b>8670</b> hours/year			
6. Operating Capacity/Schedule Comment: <b>The kiln shall not process more than 212 tons of dry preheater feed and dry flyash per hour (24-hour average) and shall not produce more than 125 tons of clinker per hour (24-hour average). The facility shall not produce more than 156 tons of Portland cement, masonry cement and other specialty products per hour (30 day average). Process and production rates shall be further limited to 1,857,120 tons of dry preheater feed and dry flyash in any consecutive 12-month period, 1,095,000 tons of clinker in any consecutive 12-month period, and 1,366,560 tons of Portland cement in any consecutive 12-month period.</b>				

**EMISSIONS UNIT INFORMATION**

Section [2]

of [2]

EU 010 Kiln/Raw Mill – Line 2

**C. EMISSION POINT (STACK/VENT) INFORMATION****(Optional for unregulated emissions units.)****Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: <b>2E21, Kiln</b>		2. Emission Point Type Code: <b>1</b>	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: <b>Not Applicable</b>			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: <b>V</b>	6. Stack Height: <b>314.75</b> feet	7. Exit Diameter: <b>9.42</b> feet	
8. Exit Temperature: <b>221°F</b>	9. Actual Volumetric Flow Rate: <b>265,000</b> acfm*	10. Water Vapor: <b>17%</b>	
11. Maximum Dry Standard Flow Rate: <b>173,000</b> dscfm		12. Nonstack Emission Point Height: <b>Not Applicable</b> feet	
13. Emission Point UTM Coordinates... Zone: 17R East (km): <b>346811</b> North (km): <b>3285610</b>		14. Emission Point Latitude/Longitude... <b>29/41/27.8 N</b> Latitude (DD/MM/SS) <b>82/34/58.3 W</b> Longitude (DD/MM/SS)	
15. Emission Point Comment: <b>New baghouse air to cloth ratio expected 3.28 ft/min or less. Membrane filter bags will be used.</b> <b>Location by Google Earth</b>  <b>*Represents Raw Mill up conditions. Raw Mill down flow rate near 231,000 acfm.</b>			



**EMISSIONS UNIT INFORMATION**

Section [2] of [2] EU 010 Kiln/Raw Mill – Line 2

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

**Segment Description and Rate: Segment 1 of 9**

1. Segment Description (Process/Fuel Type):  <b>Mineral Products: Cement Manufacturing: Dry Process: Preheater/Precalciner Kiln</b>		
2. Source Classification Code (SCC): <b>3-05-006-23</b>		3. SCC Units: <b>Tons Clinker</b>
4. Maximum Hourly Rate: <b>125</b>	5. Maximum Annual Rate: <b>1,095,000</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>Not Applicable</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>Not Applicable</b>
10. Segment Comment: <b>None</b>		

**Segment Description and Rate: Segment 2 of 9**

1. Segment Description (Process/Fuel Type):  <b>In-Process Fuel Use: Coal : Cement Kiln</b>		
2. Source Classification Code (SCC): <b>3-90-002-01</b>		3. SCC Units: <b>Tons Burned</b>
4. Maximum Hourly Rate: <b>15.4</b>	5. Maximum Annual Rate: <b>134,769</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>No limit requested</b>	8. Maximum % Ash: <b>No limit requested</b>	9. Million Btu per SCC Unit: <b>26</b>
10. Segment Comment: <b>Coal heat value: 13,000 Btu/lb = 26 MMBtu/ton</b> <b>400 MMBtu/hr ÷ 26 MMBtu/ton = 15.4 tons/hr</b> <b>@8760 hr/year = 134,769 tons/year</b>		

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

EU 010 Kiln/Raw Mill – Line 2

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

**Segment Description and Rate: Segment 3 of 9**

1. Segment Description (Process/Fuel Type):  <b>In-Process Fuel Use: Natural Gas : Cement Kiln</b>		
2. Source Classification Code (SCC): <b>3-90-006-02</b>	3. SCC Units: <b>Million Cubic Feet Burned</b>	
4. Maximum Hourly Rate: <b>0.381</b>	5. Maximum Annual Rate: <b>3337.1</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>Not Applicable</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>1050</b>
10. Segment Comment: <b>No permit limit on fuel usage. Estimated maximums.</b> <b>Natural gas heat value: 1050 Btu/cf = 1050 MMBtu/MMCF</b> <b>400 MMBtu/hr ÷ 1050 MMBtu/MMCF = 0.381 MMCF/hr</b> <b>@8760 hr/year = 3337.1 MMCF/year</b>		

**Segment Description and Rate: Segment 4 of 9**

1. Segment Description (Process/Fuel Type):  <b>In-Process Fuel Use: Distillate Oil : Cement Kiln</b>		
2. Source Classification Code (SCC): <b>3-90-005-02</b>	3. SCC Units: <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate: <b>2.857</b>	5. Maximum Annual Rate: <b>25,028</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>1.0</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>140</b>
10. Segment Comment: <b>This segment is for No. 2 or No. 4 oil</b> <b>No permit limit on fuel usage. Estimated maximums.</b> <b>Distillate oil heat value: 140,000 Btu/gal = 140 MMBtu/10<sup>3</sup> gal</b> <b>400 MMBtu/hr ÷ 140 MMBtu/10<sup>3</sup> gal = 2.857 (10<sup>3</sup> gal)/hr = 2857 gallons/hour</b> <b>@8760 hr/year = 25028 (10<sup>3</sup> gal)/year</b>		

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

EU 010 Kiln/Raw Mill – Line 2

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

**Segment Description and Rate:** Segment **5 of 9**

1. Segment Description (Process/Fuel Type):  <b>In-Process Fuel Use: Propane : Cement Kiln</b>		
2. Source Classification Code (SCC): <b>3-90-010-99</b>		3. SCC Units: <b>Thousand Gallons Burned</b>
4. Maximum Hourly Rate: <b>4.255</b>	5. Maximum Annual Rate: <b>37,277</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>Not Applicable</b>	8. Maximum % Ash: <b>Not Applicable</b>	9. Million Btu per SCC Unit: <b>94</b>
10. Segment Comment: <b>Propane heat value: 94,000 Btu/gal = 94 MMBtu/10<sup>3</sup> gal</b> <b>400 MMBtu/hr ÷ 94 MMBtu/10<sup>3</sup> gal = 4.255 (10<sup>3</sup> gal)/hr = 4255 gallons/hour</b> <b>For startup only</b>		

**Segment Description and Rate:** Segment **6 of 9**

1. Segment Description (Process/Fuel Type):  <b>In-Process Fuel Use: Coke: Cement Kiln</b>		
2. Source Classification Code (SCC): <b>3-90-008-99</b>		3. SCC Units: <b>Tons Burned</b>
4. Maximum Hourly Rate: <b>15.04</b>	5. Maximum Annual Rate: <b>131,729</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>No limit requested</b>	8. Maximum % Ash: <b>No limit requested</b>	9. Million Btu per SCC Unit: <b>26.6</b>
10. Segment Comment: <b>No permit limit on fuel usage. Estimated maximums.</b> <b>Coke heat value: 13,300 Btu/lb = 26.6 MMBtu/ton</b> <b>400 MMBtu/hr ÷ 26.6 MMBtu/ton = 15.04 tons/hr</b> <b>@8760 hr/year = 131,729 tons/year</b>		

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

EU 010 Kiln/Raw Mill – Line 2

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

**Segment Description and Rate: Segment 7 of 9**

1. Segment Description (Process/Fuel Type):  <b>In-Process Fuel Use: Tires</b> <b>Supplemental Fuel at up to 30% of heat value (120 MMBtu/hour)</b>		
2. Source Classification Code (SCC): <b>3-90-012-99</b>		3. SCC Units: <b>Tons Burned</b>
4. Maximum Hourly Rate: <b>5</b>	5. Maximum Annual Rate: <b>53,800</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>No limit requested</b>	8. Maximum % Ash: <b>No limit requested</b>	9. Million Btu per SCC Unit: <b>24</b>
10. Segment Comment: <b>Tire fuel limited to 30% of heat input, 120 mmbtu/hr</b> <b>Tires heat value: 12,000 Btu/lb = 24 MMBtu/ton</b> <b>120 MMBtu/hr ÷ 24 MMBtu/ton = 5 tons/hr</b> <b>@8760 hr/year = 53800 tons/year</b>		

**Segment Description and Rate: Segment 8 of 9**

1. Segment Description (Process/Fuel Type):  <b>In-Process Fuel Use: High carbon fly ash</b>		
2. Source Classification Code (SCC): <b>3-90-012-99</b>		3. SCC Units: <b>Tons Burned</b>
4. Maximum Hourly Rate: <b>20</b>	5. Maximum Annual Rate: <b>175,200</b>	6. Estimated Annual Activity Factor: <b>Not Applicable</b>
7. Maximum % Sulfur: <b>No limit requested</b>	8. Maximum % Ash: <b>No limit requested</b>	9. Million Btu per SCC Unit: <b>1</b>
10. Segment Comment: <b>Estimated maximums based on 5% of heat input. 20 mmbtu/hr and 1 mmbtu/ton.</b>		

**Segment Description and Rate:** Segment **9** of **9**

1. Segment Description (Process/Fuel Type): <b>Industrial Processes; In-Process Fuel Use; AFM – Kiln and Precalciner</b>		
2. Source Classification Code (SCC): <b>3-90-012-89</b>		3. SCC Units: <b>Tons Burned</b>
4. Maximum Hourly Rate: <b>See Appendix 1</b>	5. Maximum Annual Rate: <b>See Appendix 1</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>See Appendix 1</b>	8. Maximum % Ash:	9. Million Btu per SCC Unit: <b>See Appendix 1</b>
10. Segment Comment: <b>Segment represents non-hazardous fuels</b>		

**EMISSIONS UNIT INFORMATION**

Section [2]

of [2]

EU 010 Kiln/Raw Mill – Line 2

**E. EMISSIONS UNIT POLLUTANTS****List of Pollutants Emitted by Emissions Unit**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
<b>PM</b>	<b>Current (010) Future (016)</b>	<b>Not Applicable</b>	<b>EL</b>
<b>PM<sub>10</sub></b>	<b>Current (010) Future (016)</b>	<b>Not Applicable</b>	<b>EL</b>
<b>Hg</b>	<b>Not Applicable</b>	<b>Not Applicable</b>	<b>EL</b>
<b>SO<sub>2</sub></b>	<b>Not Applicable</b>	<b>Not Applicable</b>	<b>EL</b>
<b>NO<sub>x</sub></b>	<b>107, 025</b>	<b>Not Applicable</b>	<b>EL</b>
<b>CO</b>	<b>Not Applicable</b>	<b>Not Applicable</b>	<b>EL</b>
<b>VOC</b>	<b>Not Applicable</b>	<b>Not Applicable</b>	<b>EL</b>

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

**POLLUTANT DETAIL INFORMATION**

EU 010 Kiln/Raw Mill – Line 2

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS  
(Optional for unregulated emissions units.)**

**Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

1. Pollutant Emitted: <b>PM</b>		2. Total Percent Efficiency of Control:	
3. Potential Emissions: <b>28.8 lb/hour</b>		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		<b>126.1 tons/year</b>	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor:  Reference: <b>0010087-048-AV permit limit</b>		7. Emissions Method Code: <b>0</b>	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: <b>Current potential based on existing permit limitations. The upcoming CISWI compliance will reduce PM emissions to 4.6 mg/dscm.</b>  <b>Note that only PM is addressed in this application for this EU because only PM will be affected by this baghouse which is replacing an ESP</b>			

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

**POLLUTANT DETAIL INFORMATION**

EU 010 Kiln/Raw Mill – Line 2

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: <b>BACT</b>	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: <b>28.8 lb/hr</b>	4. Equivalent Allowable Emissions: <b>28.8</b> lb/hour <b>126.1</b> tons/year
5. Method of Compliance: <b>Annual Method 5</b>	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: <b>CISWI (future limitation)</b>	2. Future Effective Date of Allowable Emissions: <b>tbd</b>
3. Allowable Emissions and Units: <b>4.6 mg/dscm</b>	4. Equivalent Allowable Emissions: <b>3.0</b> lb/hour <b>13.1</b> tons/year
5. Method of Compliance: <b>Method 5 or 5i and PM CPMS</b>	
6. Allowable Emissions Comment (Description of Operating Method): <b>CISWI PM limit will reduce emissions.</b> <b>4,900 dscm (~173,000 dscfm) x 4.6 mg/dscm x lb/453,000 mg x 60 min/hr = 3.0 lb/hr</b> <b>3.0 lb/hr x 8760 hr/yr x ton/2,000 lb = 13.1 ton/yr</b>	



**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

**POLLUTANT DETAIL INFORMATION**

EU 010 Kiln/Raw Mill – Line 2

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS  
(Optional for unregulated emissions units.)**

**Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

1. Pollutant Emitted: <b>PM10</b>		2. Total Percent Efficiency of Control:	
3. Potential Emissions: <b>25 lb/hour</b>		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		<b>109.5 tons/year</b>	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor:  Reference: <b>0010087-041-AV Permit limit</b>		7. Emissions Method Code: <b>0</b>	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:  <b>Current potential based on existing permit limitations. The upcoming CISWI compliance will reduce PM emissions to 4.6 mg/dscm.</b>			

**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

**POLLUTANT DETAIL INFORMATION**

EU 010 Kiln/Raw Mill – Line 2

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: <b>BACT</b>	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: <b>25.0 lb/hour      109.5 tons/year</b>
5. Method of Compliance: <b>Annual EPA Method 5 (assuming all PM measured is PM<sub>10</sub>).</b>	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: <b>CISWI (future limitation)</b>	2. Future Effective Date of Allowable Emissions: <b>tbd</b>
3. Allowable Emissions and Units: <b>4.6 mg/dscm</b>	4. Equivalent Allowable Emissions: <b>3.0 lb/hour      13.1 tons/year</b>
5. Method of Compliance: <b>Method 5 or 5i and PM CPMS</b>	
6. Allowable Emissions Comment (Description of Operating Method): <b>CISWI PM limit will reduce emissions. 4900 dscm (~173,000 dscfm (engineering knowledge for new baghouse system)) x 4.6 mg/dscm x lb/453,000 mg x 60 min/hr = 3.0 lb/hr 3.0 lb/hr x 8760 hr/yr /2000 = 13.1 ton/yr</b>	





**EMISSIONS UNIT INFORMATION**

Section [2] of [2]

EU 010 Kiln/Raw Mill – Line 2

**I. EMISSIONS UNIT ADDITIONAL INFORMATION**

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

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: <u>NA</u> <input checked="" type="checkbox"/> Previously Submitted, Date <u>TV renewal</u>
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: <u>NA</u> <input checked="" type="checkbox"/> Previously Submitted, Date <u>TV renewal</u>
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>provided in application</u> <input type="checkbox"/> Previously Submitted, Date ____
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>TV renewal</u> <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable  Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.

7. Other Information Required by Rule or Statute:

Attached, Document ID: \_\_\_\_\_

Not Applicable

