



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: Argos Cement, LLC	
2. Site Name: Argos Newberry Cement Plant	
3. Facility Identification Number: 0010087	
4. Facility Location... Street Address or Other Locator: 4000 NW CR 235 City: Newberry County: Alachua Zip Code: 32669	
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: Max Lee, Ph.D, P.E.	
2. Application Contact Mailing Address... Organization/Firm: Koogler and Associates, Inc Street Address: 4014 NW 13th Street City: Gainesville State: Florida Zip Code: 32609	
3. Application Contact Telephone Numbers... Telephone: (352) 377 - 5822 ext. 19 Fax: (352) 377 - 7158	
4. Application Contact E-mail Address: mlee@kooglerassociates.com	

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):

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 clinker coolers 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 clinker coolers.

FACILITY INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
004	Clinker Handling Line 1	NA	NA
011	Clinker Handling Line 2		

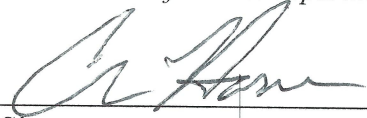
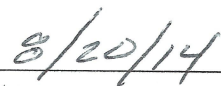
Application Processing Fee

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

FACILITY INFORMATION

Owner/Authorized Representative Statement

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

1. Owner/Authorized Representative Name : Chris Horner, Plant Manager
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Argos Cement LLC Street Address: 4000 NW CR 235 City: Newberry State: Florida Zip Code: 32669
3. Owner/Authorized Representative Telephone Numbers... Telephone: (352) 472 -4722 ext. 130 Fax: (352) 472 -2449
4. Owner/Authorized Representative E-mail Address: CHorner@argos-us.com
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

FACILITY INFORMATION

Application Responsible Official Certification

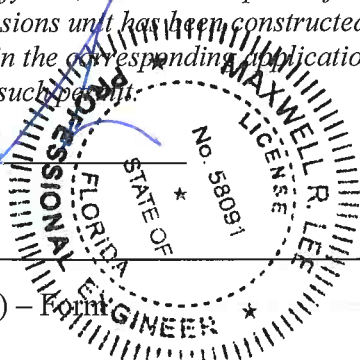
Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation permit. If there are multiple responsible officials, the “application responsible official” need not be the “primary 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, CAIR source, or Hg Budget 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:
6. Application Responsible Official Certification: <i>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..</i> _____ Signature _____ Date

FACILITY INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Max Lee, Ph.D. P.E. Registration Number: 58091
2. Professional Engineer Mailing Address... Organization/Firm: Koogler and Associates, Inc. Street Address: 4014 NW 13th Street City: Gainesville State: Florida Zip Code: 32609
3. Professional Engineer Telephone Numbers... Telephone: (352) 377-5822 ext.19 Fax: (352) 377-7158
4. Professional Engineer E-mail Address: mlee@kooglerassociates.com
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 all provisions contained in such permit.</i> Signature _____ Date <u>8/20/14</u> (seal)



FACILITY INFORMATION

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 346.4 East (km) 3285.7 North (km)		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 29°57'45" Longitude (DD/MM/SS) 82°51'03"	
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 : None			

Facility Contact

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

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

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
PM	A	N
PM₁₀	A	N
SO₂	B	N
NO_x	A	N
CO	A	N
VOC	B	N
THC	B	N
H114	B	N

FACILITY INFORMATION

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility-Wide Cap [Y or N]? (all units)	3. Emissions Unit ID's Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
N/A					

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

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: <u>TV renewal</u>
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: <u>TV renewal</u>
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: <u>TV renewal</u>

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: <u>in application</u> <input type="checkbox"/> Not Applicable (existing permitted facility)
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:

Attached, Document ID: _____ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. List of Insignificant Activities: (Required for initial/renewal applications only)

Attached, Document ID: _____ Not Applicable

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)

Attached, Document ID: _____
 Not Applicable (revision application with no change in applicable requirements)

3. Compliance Report and Plan: (Required for all initial/revision/renewal applications)

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)

Attached, Document ID: _____
 Equipment/Activities Onsite but Not Required to be Individually Listed
 Not Applicable

5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only)

Attached, Document ID: _____ Not Applicable

6. Requested Changes to Current Title V Air Operation Permit:

Attached, Document ID: _____ Not Applicable

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1. Acid Rain Program Forms: Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable (not an Acid Rain source) Phase II NO _x Averaging Plan (DEP Form No. 62-210.900(1)(a)1.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
2. CAIR Part (DEP Form No. 62-210.900(1)(b)): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable (not a CAIR source)
3. Hg Budget Part (DEP Form No. 62-210.900(1)(c)): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable (not a Hg Budget unit)

Additional Requirements Comment

EMISSIONS UNIT INFORMATION

Section [1] of [2]

EU 004 Clinker Handling – 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 004 Clinker Handling – 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: **Clinker Handling – Line 1**

3. Emissions Unit Identification Number: **004**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date: 12/20/99	7. Emissions Unit Major Group SIC Code: 32
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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 004 Clinker Handling – Line 1

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

1. Control Equipment/Method Description:

Current: ESP high efficiency

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

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 K13-01

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

EMISSIONS UNIT INFORMATION

Section [1] of [2]

EU 004 Clinker Handling – Line 1

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: See Comment
2. Maximum Production Rate: See Comment
3. Maximum Heat Input Rate: Not Applicable million Btu/hr
4. Maximum Incineration Rate: Not Applicable pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8,760 hours/year
6. Operating Capacity/Schedule Comment: Per TV permit, 0010087-041-AV, condition D.1, the maximum production rate for the kiln clinker shall not exceed 110.2 tons per hour (24-hr rolling average), 115.0 tons per hour (peak hourly rate) 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.

EMISSIONS UNIT INFORMATION

Section [1] of [2]

EU 004 Clinker Handling – Line 1

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Preheater/Precalciner Kiln		
2. Source Classification Code (SCC): 3-05-006-23	3. SCC Units: Tons Feed Materials Processed	
4. Maximum Hourly Rate: 191.4	5. Maximum Annual Rate: 1,331,000	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: 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.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Preheater/Precalciner Kiln		
2. Source Classification Code (SCC): 3-05-006-14	3. SCC Units: Tons Clinker Produced	
4. Maximum Hourly Rate: 115.0	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: 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.		

EMISSIONS UNIT INFORMATION
Section [1] of [2]

EU 004 Clinker Handling – 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
PM	Current (010) Future (016)	Not Applicable	EL
PM₁₀	Current (010) Future (016)	Not Applicable	EL

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [1] of [2]

EU 004 Clinker Handling – Line 1

**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: PM		2. Total Percent Efficiency of Control: 99+%	
3. Potential Emissions: 15.4 (24-hr avg) lb/hour 56 tons/year		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: 0.14 lb/ton clinker produced Reference: 0010087-043-AV permit limit		7. Emissions Method Code: 5	
8.a. Baseline Actual Emissions (if required): N/A 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: Current potential based on existing permit limitations. The upcoming NESHAP LLL PM standard will reduce to 0.07 lb/ton clinker. Peak hourly rate: 0.14 lb/ton clinker x 115.0 ton clinker/hr = 16.1 lb/hr 24-hr average 0.14 lb/ton clinker x 110.2 ton clinker/hr = 15.4 lb/hr 800,000 tons clinker / year X 0.14 lb / ton clinker = 104,000 lb / yr = 56 TPY			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [1] of [2]
 EU 004 Clinker Handling – Line 1

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 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 2

1. Basis for Allowable Emissions Code: BACT	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.14 lb/ton clinker and 0.08 lb/ton feed	4. Equivalent Allowable Emissions: 15.4 lb/hour 56 tons/year
5. Method of Compliance: Annual Method 5	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: NESHAP (future limitation)	2. Future Effective Date of Allowable Emissions: 9/9/15
3. Allowable Emissions and Units: 0.07 lb/ton clinker (normal operation only)	4. Equivalent Allowable Emissions: 8.1 lb/hour 28 tons/year
5. Method of Compliance: Method 5 or 5i and PM CPMS	
6. Allowable Emissions Comment (Description of Operating Method): After new compliance date of NESHAP, clinker cooler will be subject to 0.07 lb/ton clinker emission limit and operating limit set on CPMS for 30-day operating average. Hourly effective rate: 0.07 x 115 ton clinker /hr = 8.1 Annual effective rate: 0.07 x 1,095,000 /2000 = 28	

EMISSIONS UNIT INFORMATION

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 EU 004 Clinker Handling – Line 1

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM₁₀

**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: PM₁₀		2. Total Percent Efficiency of Control: 99+%	
3. Potential Emissions: 13.2 lb/hour		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: PM₁₀, 0.12 lb / ton clinker produced Reference: 0010087-041-AV Permit limit		7. Emissions Method Code: 5	
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: <p>Current potential based on existing permit limitations. The upcoming NESHAP LLL PM standard will reduce to 0.07 lb/ton clinker.</p> <p>Peak hourly rate: 0.12 lb/ton clinker x 115.0 ton clinker/hr = 13.8 lb/hr 24-hr average 0.12 lb/ton clinker x 110.2 ton clinker/hr = 13.2 lb/hr</p> <p>800,000 tons clinker / year X 0.12 lb / ton clinker = 104,000 lb / yr = 48 TPY</p>			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

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 EU 004 Clinker Handling – Line 1

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM₁₀

**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: BACT	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.12 lb/ton clinker	4. Equivalent Allowable Emissions: 13.2 lb/hour 48 tons/year
5. Method of Compliance: Annual Method 5	
6. Allowable Emissions Comment (Description of Operating Method): 24-hr average 0.12 lb/ton clinker x 110.2 ton clinker/hr = 13.2 lb/hr 800,000 tons clinker / year X 0.12 lb / ton clinker = 104,000 lb / yr = 48 TPY	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: NESHAP (future limitation)	2. Future Effective Date of Allowable Emissions: 9/9/15
3. Allowable Emissions and Units: 0.07 lb/ton clinker (normal operation only)	4. Equivalent Allowable Emissions: 8.1 lb/hour 28 tons/year
5. Method of Compliance: Method 5 or 5i and PM CPMS	
6. Allowable Emissions Comment (Description of Operating Method): Conservatively assume PM = PM10. After new compliance date of NESHAP, clinker cooler will be subject to 0.07 lb/ton clinker emission limit and operating limit set on CPMS for 30-day operating average. 0.07 lb/ton clinker x 115 ton clinker/hr = 8.1 lb/hr 800,000 tons clinker / year X 0.07 lb / ton clinker/2000 = 28 TPY	

EMISSIONS UNIT INFORMATION

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EU 004 Clinker Handling – Line 1

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions 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. Allowable Opacity: Normal Conditions: 10% Exceptional Conditions: Maximum Period of Excess Opacity Allowed: Not Applicable min/hour	
4. Method of Compliance: COMs	
5. Visible Emissions Comment: Permit No. AC01-267311/PSD-FL-228 and Based on NESHAP LLL, Table 2 – found at http://www.epa.gov/ttn/atw/pcem/ruleguidancemay2013.pdf If a source has a COMS, they must follow 63.1348(b)(3)(i) and 63.1350(f)(4)(i)	

EMISSIONS UNIT INFORMATION

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EU 004 Clinker Handling – Line 1

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: VE	2. Pollutant(s):
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: 0035 8010	
5. Installation Date: Prior to 2001	6. Performance Specification Test Date: 1/17/01
7. Continuous Monitor Comment: COM is required per BACT determination permit. [Permit No. AC01-267311/PSD-FL-228]. Also required by NESHAP, 63.1348(b)(3)(i) and 63.1350(f)(4)(i). Not required by NESHAP after continuous compliance by CPMS.	

Continuous Monitoring System: Continuous Monitor 2 of 2

1. Parameter Code: PM - CPMS	2. Pollutant(s): PM
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: future	6. Performance Specification Test Date: future
7. Continuous Monitor Comment: To be installed to comply to NESHAP LLL. Note that work practice stds will only apply under the revised NESHAP, 40 CFR 63.1348(b)(9) for startup and shutdown	

EMISSIONS UNIT INFORMATION

Section [1] of [2]

EU 004 Clinker Handling – Line 1

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u> <input checked="" type="checkbox"/> Previously Submitted, Date <u>TV renewal</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: <u>NA</u> <input checked="" type="checkbox"/> Previously Submitted, Date <u>TV renewal</u></p>
<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>provided in application</u> <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID _____ <input type="checkbox"/> Previously Submitted, Date _____</p> <p><input checked="" type="checkbox"/> Not Applicable (construction application)</p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>TV renewal</u></p> <p><input type="checkbox"/> Not Applicable</p>
<p>6. Compliance Demonstration Reports/Records:</p> <p><input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Not Applicable</p> <p>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.</p>
<p>7. Other Information Required by Rule or Statute:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [1] of [2]

EU 004 Clinker Handling – Line 1

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

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EMISSIONS UNIT INFORMATION

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EU011 – Clinker Handling – 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]

EU011 – Clinker Handling – 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: **Clinker Handling – Line 2**

3. Emissions Unit Identification Number: **011**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date: 10/7/2009	7. Emissions Unit Major Group SIC Code: 32
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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 [2] of [2]

EU011 – Clinker Handling – Line 2

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

1. Control Equipment/Method Description:

Current: ESP high efficiency

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

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 2K13-01

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

EMISSIONS UNIT INFORMATION

Section [2] of [2]

EU011 – Clinker Handling – Line 2

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: Not Applicable
2. Maximum Production Rate: See Comment
3. Maximum Heat Input Rate: Not Applicable million Btu/hr
4. Maximum Incineration Rate: Not Applicable pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8,760 hours/year
6. Operating Capacity/Schedule Comment: The clinker production rate shall be determined as a function of the preheater dry feed rate. Processing and production limit of cooler not specified.

EMISSIONS UNIT INFORMATION

Section [2] of [2]

EU011 – Clinker Handling – 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: 2L03 (cooler discharge)		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: 2L03 – requested to revise name to “clinker cooler (2K13-01)”			
Current EMISSION POINTS		DESCRIPTION	
2L03		Cooler Discharge	
2L12		Clinker into Silo #3	
2L13		Clinker Transport (2L20, 2L08)	
2L15		Clinker Transport (2L20, silo L07-02, 2L09)	
2L16		Clinker Transport (2L01, 2L20)	
2L18		Clinker to Silo #4	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Not Applicable			
5. Discharge Type Code: V	6. Stack Height: 197 feet	7. Exit Diameter: 9 feet	
8. Exit Temperature: 250°F	9. Actual Volumetric Flow Rate: 116,000 acfm	10. Water Vapor: ~4%	
11. Maximum Dry Standard Flow Rate: Dscfm 84,000		12. Nonstack Emission Point Height: Not Applicable feet	
13. Emission Point UTM Coordinates... Zone: 17R East (km): 346918m E North (km): 3285556m N		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) 29°41'26.4"N Longitude (DD/MM/SS) 82°34'56.0"W	
15. Emission Point Comment: New baghouse air to cloth ratio expected 3.28 ft/min or less. Membrane filter bags will be used.			

EMISSIONS UNIT INFORMATION

Section [2] of [2]

EU011 – Clinker Handling – Line 2

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Preheater/Precalciner Kiln		
2. Source Classification Code (SCC): 3-05-006-23		3. SCC Units: Tons Feed Materials Processed*
4. Maximum Hourly Rate: 212 (24-hr avg)	5. Maximum Annual Rate: 1,857,120	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: The max rates are based on the Kiln 2 max rates. *includes dry flyash as part of feed		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Preheater/Precalciner Kiln		
2. Source Classification Code (SCC): 3-05-006-14		3. SCC Units: Tons Clinker
4. Maximum Hourly Rate: 125	5. Maximum Annual Rate: 1,095,000	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: The max rates are based on Kiln 2 max rates.		

EMISSIONS UNIT INFORMATION

Section [2] of [2]

EU011 – Clinker Handling – 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
PM	Current (010) Future (016)	Not Applicable	EL
PM₁₀	Current (010) Future (016)	Not Applicable	EL

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

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EU011 – Clinker Handling – 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: PM		2. Total Percent Efficiency of Control: 99+%	
3. Potential Emissions: 12.5 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): NA to tons/year			
6. Emission Factor: 0.1 lb/ton clinker produced Reference: 0010087-043-AV permit limit		7. Emissions Method Code: 5	
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: Current potential based on existing permit limitations. The upcoming NESHAP LLL PM standard will reduce to 0.07 lb/ton clinker. 24-hr average rate: 0.1 lb/ton clinker x 125 ton clinker/hr = 12.5 lb/hr 1,095,000 tons clinker / year X 0.1 lb / ton clinker /2000 = 54.7 TPY			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

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POLLUTANT DETAIL INFORMATION

Page [1] of [2]
 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 2

1. Basis for Allowable Emissions Code: BACT	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.1 lb/ton clinker	4. Equivalent Allowable Emissions: 12.5 lb/hour 54.7 tons/year
5. Method of Compliance: Annual compliance testing using EPA Method 5.	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: NESHAP (future limitation)	2. Future Effective Date of Allowable Emissions: 9/9/15
3. Allowable Emissions and Units: 0.07 lb/ton clinker (normal operation only)	4. Equivalent Allowable Emissions: 8.75 lb/hour 38.3 tons/year
5. Method of Compliance: Method 5 or 5i and PM CPMS	
6. Allowable Emissions Comment (Description of Operating Method): After new compliance date of NESHAP, clinker cooler will be subject to 0.07 lb/ton clinker emission limit and operating limit set on CPMS for 30-day operating average. Hourly effective rate 0.07 x 125 ton clinker /hr = 8.75 Annual effective rate 0.07 x 1,095,000 /2000 = 38.3	

EMISSIONS UNIT INFORMATION

Section [2] of [2]
 EU011 – Clinker Handling – Line 2

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM₁₀

**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: PM₁₀	2. Total Percent Efficiency of Control: 99+%
3. Potential Emissions: 10.0 lb/hour 43.8tons/year	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: PM₁₀, 0.08 lb / ton clinker produced Reference: 0010087-041-AV Permit limit	7. Emissions Method Code: 5
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: <p>Current potential based on existing permit limitations. The upcoming NESHAP LLL PM standard will reduce to 0.07 lb/ton clinker.</p> <p>24-hr average 0.08 lb/ton clinker x 125 ton clinker/hr = 10.0 lb/hr</p> <p>1,095,000 tons clinker / year X 0.08 lb / ton clinker/2000 = 43.8 TPY</p>	
11. Potential, Fugitive, and Actual Emissions Comment:	

EMISSIONS UNIT INFORMATION

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 EU011 – Clinker Handling – Line 2

POLLUTANT DETAIL INFORMATION

Page [2] of [2]
 Particulate Matter – PM₁₀

**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: BACT	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.08 lb/ton clinker	4. Equivalent Allowable Emissions: 13.2 lb/hour 48 tons/year
5. Method of Compliance: Annual Method 5	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: NESHAP (future limitation)	2. Future Effective Date of Allowable Emissions: 9/9/15
3. Allowable Emissions and Units: 0.07 lb/ton clinker (normal operation only)	4. Equivalent Allowable Emissions: 8.8 lb/hour 38.3 tons/year
5. Method of Compliance: Method 5 or 5i and PM CPMS	
6. Allowable Emissions Comment (Description of Operating Method): Conservatively assume PM = PM10 After new compliance date of NESHAP, clinker cooler will be subject to 0.07 lb/ton clinker emission limit and operating limit set on CPMS for 30-day operating average. 0.07 lb/ton clinker x 125 ton clinker/hr = 8.8 lb/hr 1,095,000 tons clinker / year X 0.07 lb / ton clinker/2000 = 38.3 TPY	

EMISSIONS UNIT INFORMATION

Section [2] of [2]

EU011 – Clinker Handling – Line 2

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20% Exceptional Conditions: Maximum Period of Excess Opacity Allowed: Not Applicable min/hour	
4. Method of Compliance: COMS	
5. Visible Emissions Comment: Based on Air Construction Permit No. 0010087-031-AC	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10% Exceptional Conditions: Maximum Period of Excess Opacity Allowed: Not Applicable min/hour	
4. Method of Compliance: COMs	
5. Visible Emissions Comment: Based on NESHAP LLL, Table 2 – found at http://www.epa.gov/ttn/atw/pcem/ruleguidancemay2013.pdf If a source has a COMS, they must follow 63.1348(b)(3)(i) and 63.1350(f)(4)(i)	

EMISSIONS UNIT INFORMATION

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EU011 – Clinker Handling – Line 2

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: VE	2. Pollutant(s):
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: 0720 8015	
5. Installation Date: 3/1/2010	6. Performance Specification Test Date: 12/22/2010
7. Continuous Monitor Comment: COM requirement. Also required by NESHAP, 63.1348(b)(3)(i) and 63.1350(f)(4)(i). Not required by NESHAP after continuous compliance by CPMS.	

Continuous Monitoring System: Continuous Monitor 2 of 2

1. Parameter Code: PM - CPMS	2. Pollutant(s): PM
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: future	6. Performance Specification Test Date: future
7. Continuous Monitor Comment: To be installed to comply to NESHAP LLL. Note that work practice stds will only apply under the new NESHAP, 40 CFR 63.1348(b)(9) for startup and shutdown	

EMISSIONS UNIT INFORMATION

Section [2] of [2]

EU011 – Clinker Handling – 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 (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: _____ <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: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [2] of [2]

EU011 – Clinker Handling – Line 2

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

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