

FLORIDA ROCK INDUSTRIES INC

CEMENT GROUP / 4000 N.W. CR 235 / P.O. Box 459 / Newberry, FL 32669 / (352) 472-4722



January 17, 2008

Mr. Jeff Koerner, P.E.
Bureau of Air Regulation
Department of Environmental Protection
2600 Blair Stone Road, MS #5505
Tallahassee, FL 32399-2400

RE: Application for construction permit
Facility 0010087, Permit No. 0010087-023-AV
Florida Rock Industries, Inc.—Thompson S. Baker Cement Plant

Dear Mr. Koerner:

Enclosed are four copies of an application for construction permit to make minor modification to baghouses previously permitted under 0010087-013-AC.

If you have any questions, please call Steve Cuilen (Koogler & Associates) at 352-377-5822 or me at 352-472-4722, ext. 121.

Sincerely,
FLORIDA ROCK INDUSTRIES, INC.

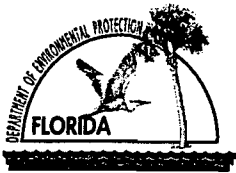
A handwritten signature in cursive script that reads "Henry Gotsch".

Henry Gotsch
Environmental Manager

RECEIVED

JAN 18 2008

BUREAU OF AIR REGULATION



Department of Environmental Protection

Division of Air Resource Management

RECEIVED

APPLICATION FOR AIR PERMIT - LONG FORM

JAN 18 2008

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for any air construction permit at a facility operating under a federal enforceable state air operation permit (FESOP) or Title V air permit. Also use this form to apply for an air construction permit:

- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- Where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- Where the applicant proposes 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/revise/renewal Title V air operation permit.

Air Construction Permit & Title V Air Operation Permit (Concurrent Processing Option) – Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: Florida Rock Industries, Inc.	
2. Site Name: Thompson S. Baker Cement Plant	
3. Facility Identification Number: 0010087	
4. Facility Location... Street Address or Other Locator: 4000 NW County Road 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: Steven C. Cullen, P.E.	
2. Application Contact Mailing Address... Organization/Firm: Koogler & 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 Email Address: <u>scullen@kooglerassociates.com</u>	

Application Processing Information (DEP Use)

1. Date of Receipt of Application: 1/18/08	3. PSD Number (if applicable):
2. Project Number(s): 0010087-031-A	4. Siting Number (if applicable):

APPLICATION INFORMATION

Purpose of Application

This application for air permit is 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 INFORMATION

Application Comment

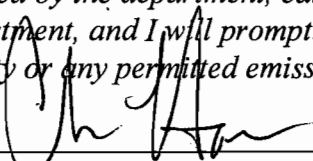
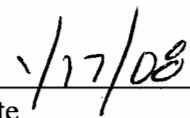
This application requests minor modifications to DEP Permit 0010087-013-AC/PSD-FL-350. The referenced permit is for the construction of the second kiln line at the existing cement plant. The following changes are requested, reflective of as-built configuration:

- 1. EU009: New baghouse C21**
- 2. EU009: New belt conveyor D52**
- 3. EU009: Rename baghouse, from D35 to D55**
- 4. EU009: Double flow rate of baghouse 2H08**
- 5. EU009: Eliminate baghouse 2E34**
- 6. EU011: Change quadrated clinker silo to 2 separate clinker silos**
- 7. EU011: Add baghouse 2L12 (formerly Line 1 baghouse L08)**
- 8. EU011: Increase flow rate of baghouse 2L15 (to remove existing Line 1 baghouse L08)**

APPLICATION 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: Florida Rock Industries, Inc. Street Address: 4000 NW County Road 235/PO Box 459 City: Newberry State: Florida Zip Code: 32669
3. Owner/Authorized Representative Telephone Numbers... Telephone: (352) 472-4722 ext. Fax: (352) 472-2449
4. Owner/Authorized Representative Email Address: <u>chrish@flarock.com</u>
5. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative of the facility 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 requirements identified in this application to which the facility 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.</i>  _____ Signature  _____ Date

APPLICATION INFORMATION

Application Responsible Official Certification

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

1. Application Responsible Official Name: Not applicable – construction permit			
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.			
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 Email 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	

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km): 346.4 North (km): 3285.7		2. Facility Latitude/Longitude... Latitude (DD/MM/SS): 29/41/37 Longitude (DD/MM/SS): 82/35/11	
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: Chris Horner – Plant Manager
2. Facility Contact Mailing Address... Organization/Firm: Florida Rock Industries, Inc. Street Address: 4000 NW County Road 235/P.O. Box 459 City: Newberry State: Florida Zip Code: 32669
3. Facility Contact Telephone Numbers: Telephone: (352) 472-4722 ext. Fax: (352) 472-2449
4. Facility Contact Email Address: <u>chrish@flarock.com</u>

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: Not applicable – construction permit
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 Email 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 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: NSPS Subparts Y and OOO NESHAP Subpart LLL	

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
NOX	A	N
SO2	A	N
CO	A	N
VOC	A	N
DIOX	B	N
H114	B	N
SAM	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 No.s Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
Not applicable					
7. Facility-Wide or Multi-Unit Emissions Cap Comment: None					

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: 11/04
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 checked="" type="checkbox"/> Attached, Document ID: Updated flowsheets 1, 2, 5, 7, and 8
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: 11/04

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: Application
3. Rule Applicability Analysis: <input checked="" type="checkbox"/> Attached, Document ID: Application
4. List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.): <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

Additional Requirements for FESOP Applications: Not applicable

1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (no exempt units at facility)
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Additional Requirements for Title V Air Operation Permit Applications: Not applicable

1. List of Insignificant Activities (Required for initial/renewal applications only): <input type="checkbox"/> Attached, Document ID: _____ <input 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 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.
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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 On site but Not Required to be Individually Listed <input 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 type="checkbox"/> Not Applicable
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6. Requested Changes to Current Title V Air Operation Permit: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
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Additional Requirements Comment

None

EMISSIONS UNIT INFORMATION

Section [1] of [2] EU 009: Raw Mill System – 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 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 for air permit. 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 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/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. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** 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 construction permitting and insignificant emissions units 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 009: Raw Mill System – Line 2

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification: Not applicable

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: **Raw Mill System – Line 2**

3. Emissions Unit Identification Number: **009**

4. Emissions Unit Status Code: C	5. Commence Construction Date: July '05	6. Initial Startup Date: TBD	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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9. Package Unit: **Not applicable**

Manufacturer:

Model Number:

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

11. Emissions Unit Comment:

This minor modification describes changes to the emissions unit:

New baghouse C21: Controls transfers from belt C13 to belts C14 and new belt D52

New belt conveyor D52: Feeds high limestone bin from truck hopper

Rename baghouse from D35 to D55

Double flow rate of baghouse 2H08, allows eliminating baghouse 2E34

EMISSIONS UNIT INFORMATION

Section [1] of [2] EU 009: Raw Mill System – Line 2

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

For this minor modification:

**New baghouse C21: Controls transfers from belt C13 to belts C14 and new belt D52
Rename baghouse from D35 to D55
Double flow rate of baghouse 2H08, allows eliminating baghouse 2E34**

2. Control Device or Method Code(s): **017, 018**

EMISSIONS UNIT INFORMATION

Section [1] of [2] EU 009: Raw Mill System – Line 2

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 255 tons per hour: wet raw material to mill
2. Maximum Production Rate: Not applicable
3. Maximum Heat Input Rate: 40 million Btu/hr (air heater)
4. Maximum Incineration Rate: Not applicable pounds/hr tons/day
5. Requested Maximum Operating Schedule: hours/day days/week weeks/year 8760 hours/year
6. Operating Capacity/Schedule Comment: No changes to operating capacity or schedule as a result of this minor modification.

EMISSIONS UNIT INFORMATION

Section [1] of [2] EU 009: Raw Mill System – 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: C21, D55, 2H08		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: <u>Baghouses</u> C21 Transfer C13, C14, D52 belts [New] D55 Transfer D34-D36 belts [Renamed from D35] 2E34 Bin 2E30 [Baghouse eliminated] 2H08 Homogenizing silo, PH feed, Bin 2E30 [Flow rate increased to handle bin]			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Not applicable			
5. Discharge Type Code: H	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

<i>C21</i>	<i>77</i>	<i>4000</i>	<i>2</i>	<i>3854</i>	<i>New</i>
<i>D33</i>	<i>77</i>	<i>3000</i>	<i>2</i>	<i>2891</i>	
<i>D55</i>	<i>77</i>	<i>3000</i>	<i>2</i>	<i>2891</i>	<i>Renamed</i>
<i>D37</i>	<i>77</i>	<i>5000</i>	<i>2</i>	<i>4818</i>	
<i>D49</i>	<i>77</i>	<i>5000</i>	<i>2</i>	<i>4818</i>	
<i>2D37</i>	<i>77</i>	<i>5000</i>	<i>2</i>	<i>4818</i>	
<i>2D49</i>	<i>77</i>	<i>5000</i>	<i>2</i>	<i>4818</i>	
<i>2E28</i>	<i>300</i>	<i>3000</i>	<i>2</i>	<i>2043</i>	
<i>2E34</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>Deleted</i>
<i>2G07</i>	<i>200</i>	<i>15000</i>	<i>2</i>	<i>11760</i>	
<i>2H08</i>	<i>200</i>	<i>4000</i>	<i>2</i>	<i>3136</i>	<i>Increased flow</i>
				45846	4037 Increased dscfm (41809 in original app.)

EMISSIONS UNIT INFORMATION

Section [1] of [2] EU 009: Raw Mill System – Line 2

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Mineral Products: Cement Manufacturing: Dry Process: Raw Material Grinding		
2. Source Classification Code (SCC): 3-05-006-13		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 255	5. Maximum Annual Rate: 2,233,800	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: Segment related to this minor modification		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type): Not applicable		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [1] of [2] EU 009: Raw Mill System – 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	017, 018	None	EL
PM10	017, 018	None	EL

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

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control: Not applicable	
3. Potential Emissions: 0.35 lb/hour 1.5 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): Not applicable to tons/year			
6. Emission Factor: 0.01 gr/dscf Reference: Permit No. 0010087-013-AC, S.C. B13		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year [Not applicable]		8.b. Baseline 24-month Period: From: To: [Not applicable]	
9.a. Projected Actual Emissions (if required): tons/year [Not applicable]		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years [Not applicable]	
10. Calculation of Emissions: Emissions information based on the change in total baghouse flow as a result of this minor modification = 4037 dscfm 0.01 gr/dscf x 4037 dscfm x 60 min/hr ÷ 7000 gr/lb = 0.35 lb/hr @ 8760 hr/year = 1.5 TPY			
11. Potential, Fugitive, and Actual Emissions Comment: None			

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

Complete 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: Rule	2. Future Effective Date of Allowable Emissions: Not applicable
3. Allowable Emissions and Units: 0.01 gr/dscf	4. Equivalent Allowable Emissions: 0.35 lb/hour 1.5 tons/year
5. Method of Compliance: Method 9 in lieu of Method 5	
6. Allowable Emissions Comment (Description of Operating Method): Increase in emissions from minor modification	

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

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10		2. Total Percent Efficiency of Control: Not applicable	
3. Potential Emissions: 0.24 lb/hour 1.1 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): Not applicable to tons/year			
6. Emission Factor: 0.007 gr/dscf Reference: Permit No. 0010087-013-AC, S.C. B13		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year [Not applicable]		8.b. Baseline 24-month Period: From: To: [Not applicable]	
9.a. Projected Actual Emissions (if required): tons/year [Not applicable]		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years [Not applicable]	
10. Calculation of Emissions: Emissions information based on the change in total baghouse flow as a result of this minor modification = 4037 dscfm $0.007 \text{ gr/dscf} \times 4037 \text{ dscfm} \times 60 \text{ min/hr} \div 7000 \text{ gr/lb} = 0.24 \text{ lb/hr}$ @ 8760 hr/year = 1.1 TPY			
11. Potential, Fugitive, and Actual Emissions Comment: None			

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

Complete 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: Rule	2. Future Effective Date of Allowable Emissions: Not applicable
3. Allowable Emissions and Units: 0.007 gr/dscf	4. Equivalent Allowable Emissions: 0.24 lb/hour 1.1 tons/year
5. Method of Compliance: Method 9 in lieu of Method 5	
6. Allowable Emissions Comment (Description of Operating Method): Increase in emissions from minor modification	

EMISSIONS UNIT INFORMATION

Section [1] of [2] EU 009: Raw Mill System – Line 2

G. VISIBLE EMISSIONS INFORMATION**Complete 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: VE10	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10% Exceptional Conditions: 10% Maximum Period of Excess Opacity Allowed: 0 min/hour	
4. Method of Compliance: Method 9	
5. Visible Emissions Comment: 40CFR63.1348	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5% Exceptional Conditions: 5% Maximum Period of Excess Opacity Allowed: 0 min/hour	
4. Method of Compliance: Method 9, in lieu of Method 5 for baghouses	
5. Visible Emissions Comment: 62-297.620(4), F.A.C.	

EMISSIONS UNIT INFORMATION

Section [1] of [2] EU 009: Raw Mill System – Line 2

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor ___ of ___ **Not applicable**

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [2] EU 009: Raw Mill System – Line 2

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 checked="" type="checkbox"/> Attached, Document ID: Flowsheets 1, 2, 5</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: _____ <input checked="" type="checkbox"/> Previously Submitted, Date 11/2004</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 type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date 11/2004</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 type="checkbox"/> Previously Submitted, Date _____</p> <p><input checked="" type="checkbox"/> Not Applicable</p>
<p>6. Compliance Demonstration Reports/Records</p> <p><input type="checkbox"/> Attached, Document ID: _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Previously Submitted, Date: _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p>_____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p>_____</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 009: Raw Mill System – Line 2

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 (Rule 62-212.400(4)(d), F.A.C., and Rule 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 Not applicable

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

Additional Requirements Comment

None

EMISSIONS UNIT INFORMATION

Section [2] of [2] EU 011: Clinker Handling System – 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 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 for air permit. 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 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/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. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** 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 construction permitting and insignificant emissions units 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 011: Clinker Handling System – Line 2

A. GENERAL EMISSIONS UNIT INFORMATION**Title V Air Operation Permit Emissions Unit Classification: Not applicable**

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 System – Line 2

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

4. Emissions Unit Status Code: C	5. Commence Construction Date: July '05	6. Initial Startup Date: TBD	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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9. Package Unit: **Not applicable**

Manufacturer:

Model Number:

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

11. Emissions Unit Comment:

This minor modification describes changes to the emissions unit:

- Change quadrated clinker silo to 2 separate clinker silos**
- Add baghouse 2L12 (formerly Line 1 baghouse L08)**
- Increase flow rate of baghouse 2L15 (to remove existing Line 1 baghouse L08)**

EMISSIONS UNIT INFORMATION

Section [2] of [2] EU 011: Clinker Handling System – Line 2

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

For this minor modification:

- Add baghouse 2L12 Clinker into Silo #3 (formerly Line 1 baghouse L08)**
- Increase flow rate of baghouse 2L15 (to remove existing Line 1 baghouse L08)**
- Baghouse 2L18 Clinker into Silo #4 (change description, formerly into quadrated silo)**

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

EMISSIONS UNIT INFORMATION

Section [2] of [2] EU 011: Clinker Handling System – Line 2

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 125 tons per hour clinker
2. Maximum Production Rate: Not applicable
3. Maximum Heat Input Rate: Not applicable
4. Maximum Incineration Rate: Not applicable pounds/hr tons/day
5. Requested Maximum Operating Schedule: hours/day days/week weeks/year 8760 hours/year
6. Operating Capacity/Schedule Comment: No changes to operating capacity or schedule as a result of this minor modification.

EMISSIONS UNIT INFORMATION

Section [2] of [2] EU 011: Clinker Handling System – 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: 2L12, 2L15		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: <u>Baghouses</u> Baghouse 2L12 Clinker into Silo #3 [New, formerly existing L08] Baghouse 2L15 Clinker transport [Increased flow rate] Baghouse 2L18 Clinker into Silo #4 [Change description from quadrated silo]			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Not applicable			
5. Discharge Type Code: H	6. Stack Height: feet		7. Exit Diameter: feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment:			

ID	TEMP, F	ACFM	H2O	DSCFM	NOTES
2L03	300	3000	2	2043	
2L12	300	4000	2	2723	New (but formerly existing L08)
2L13	300	3000	2	2043	
2L15	300	10000	2	6808	Increased flow rate
2L16	300	4000	2	2723	
2L18	300	4000	2	2723	
				19064	5084 Increased dscfm (13980 in original app.)

EMISSIONS UNIT INFORMATION

Section [2] of [2] EU 011: Clinker Handling System – Line 2

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Mineral Products: Cement Manufacturing: Dry Process: Clinker Transfer		
2. Source Classification Code (SCC): 3-05-006-16		3. SCC Units: Tons Processed
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: Segment related to this minor modification		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type): Not applicable		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [2] of [2] EU 011: Clinker Handling System – 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	016	None	EL
PM10	016	None	EL

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

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control: Not applicable	
3. Potential Emissions: 0.44 lb/hour 1.9 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): Not applicable to tons/year			
6. Emission Factor: 0.01 gr/dscf Reference: Permit No. 0010087-013-AC, S.C. B13		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year [Not applicable]		8.b. Baseline 24-month Period: From: To: [Not applicable]	
9.a. Projected Actual Emissions (if required): tons/year [Not applicable]		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years [Not applicable]	
10. Calculation of Emissions: Emissions information based on the change in total baghouse flow as a result of this minor modification = 5084 dscfm 0.01 gr/dscf x 5084 dscfm x 60 min/hr ÷ 7000 gr/lb = 0.44 lb/hr @ 8760 hr/year = 1.9 TPY			
11. Potential, Fugitive, and Actual Emissions Comment: Please note that although the flow rate for this emissions unit is increasing by 5084 dscfm; 2723 dscfm of the increase is being moved out of the existing Line 1. The baghouse that is now being called 2L12 was formerly Line 1 baghouse L08. It is conservative to consider the entire increase within this minor modification.			

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

Complete 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: Rule	2. Future Effective Date of Allowable Emissions: Not applicable
3. Allowable Emissions and Units: 0.01 gr/dscf	4. Equivalent Allowable Emissions: 0.44 lb/hour 1.9 tons/year
5. Method of Compliance: Method 9 in lieu of Method 5	
6. Allowable Emissions Comment (Description of Operating Method): Increase in emissions from minor modification	

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

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete 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 permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10		2. Total Percent Efficiency of Control: Not applicable	
3. Potential Emissions: 0.31 lb/hour 1.3 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): Not applicable to tons/year			
6. Emission Factor: 0.007 gr/dscf Reference: Permit No. 0010087-013-AC, S.C. B13		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year [Not applicable]		8.b. Baseline 24-month Period: From: To: [Not applicable]	
9.a. Projected Actual Emissions (if required): tons/year [Not applicable]		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years [Not applicable]	
10. Calculation of Emissions: Emissions information based on the change in total baghouse flow as a result of this minor modification = 5084 dscfm $0.007 \text{ gr/dscf} \times 5084 \text{ dscfm} \times 60 \text{ min/hr} \div 7000 \text{ gr/lb} = 0.31 \text{ lb/hr}$ @ 8760 hr/year = 1.3 TPY			
11. Potential, Fugitive, and Actual Emissions Comment: None			

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

Complete 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: Rule	2. Future Effective Date of Allowable Emissions: Not applicable
3. Allowable Emissions and Units: 0.007 gr/dscf	4. Equivalent Allowable Emissions: 0.31 lb/hour 1.3 tons/year
5. Method of Compliance: Method 9 in lieu of Method 5	
6. Allowable Emissions Comment (Description of Operating Method): Increase in emissions from minor modification	

EMISSIONS UNIT INFORMATION

Section [2] of [2] EU 011: Clinker Handling System – Line 2

G. VISIBLE EMISSIONS INFORMATION**Complete 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: VE10	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10% Exceptional Conditions: 10% Maximum Period of Excess Opacity Allowed: 0 min/hour	
4. Method of Compliance: Method 9	
5. Visible Emissions Comment: 40CFR63.1348	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5% Exceptional Conditions: 5% Maximum Period of Excess Opacity Allowed: 0 min/hour	
4. Method of Compliance: Method 9, in lieu of Method 5 for baghouses	
5. Visible Emissions Comment: 62-297.620(4), F.A.C.	

EMISSIONS UNIT INFORMATION

Section [2] of [2] EU 011: Clinker Handling System – Line 2

H. CONTINUOUS MONITOR INFORMATION**Complete if this emissions unit is or would be subject to continuous monitoring.****Continuous Monitoring System:** Continuous Monitor ___ of ___ **Not applicable**

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [2] EU 011: Clinker Handling System – Line 2

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 checked="" type="checkbox"/> Attached, Document ID: <u>Flowsheets 7, 8</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: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>11/2004</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 type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>11/2004</u></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 type="checkbox"/> Previously Submitted, Date _____</p> <p><input checked="" type="checkbox"/> Not Applicable</p>
<p>6. Compliance Demonstration Reports/Records</p> <p><input type="checkbox"/> Attached, Document ID: _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Previously Submitted, Date: _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p>_____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p>_____</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 [2] of [2] EU 011: Clinker Handling System – Line 2

Additional Requirements for Air Construction Permit Applications

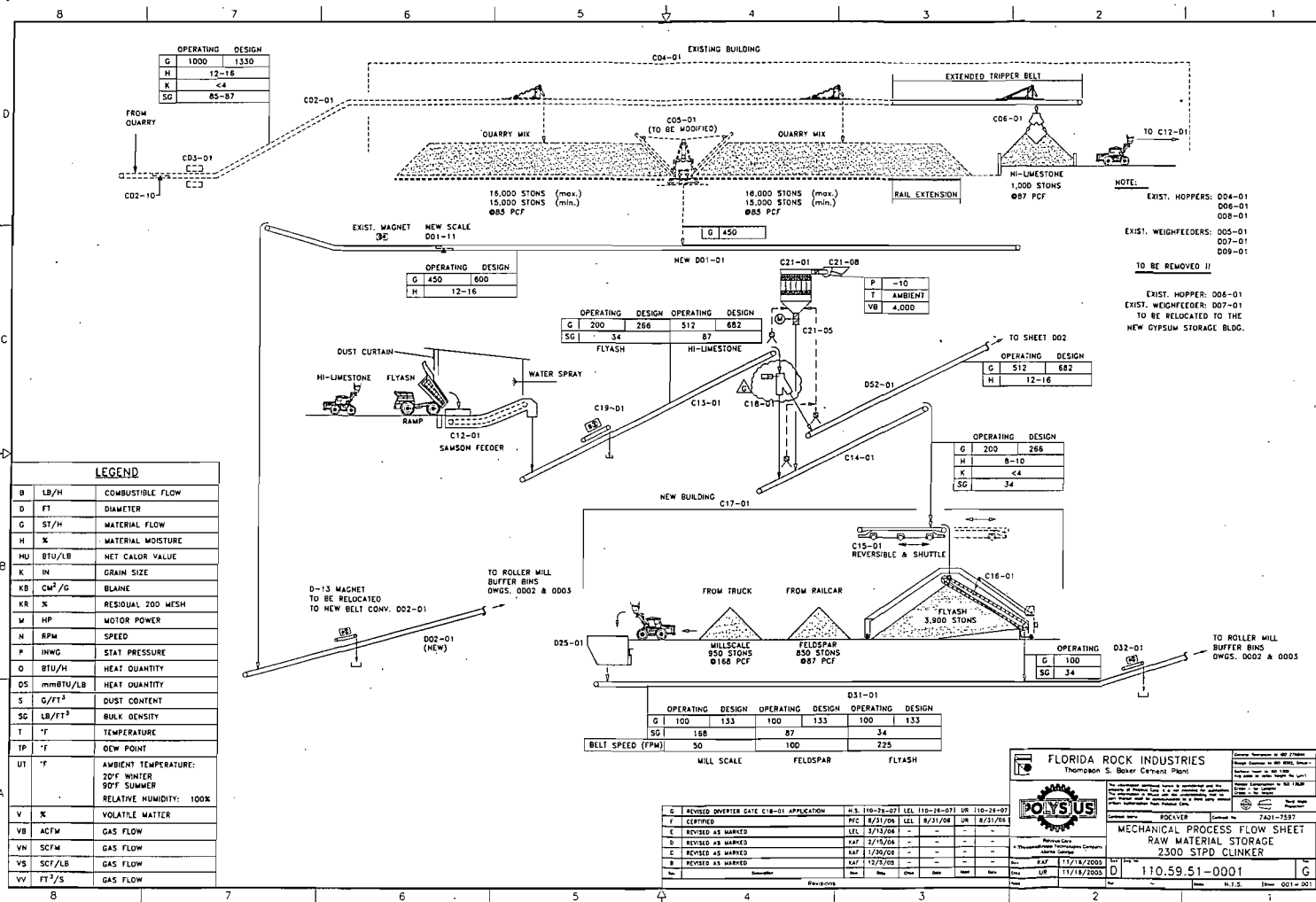
1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 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 Not applicable

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Not Applicable

Additional Requirements Comment

None



OPERATING DESIGN	
G	1000 1330
H	12-16
K	<4
SG	85-87

OPERATING DESIGN	
G	450 500
H	12-16

OPERATING DESIGN		OPERATING DESIGN	
G	200	266	682
SG	34	87	

OPERATING DESIGN	
G	512 682
H	12-16

OPERATING DESIGN	
G	200 266
H	8-10
K	<4
SG	34

LEGEND		
B	LB/H	COMBUSTIBLE FLOW
D	FT	DIAMETER
G	ST/H	MATERIAL FLOW
H	X	MATERIAL MOISTURE
HU	BTU/LB	NET CALOR VALUE
K	IN	GRAIN SIZE
KB	CM ² /G	BLANNE
KR	X	RESIDUAL 200 MESH
W	HP	MOTOR POWER
H	SPM	SPEED
P	INHG	STAT PRESSURE
Q	BTU/H	HEAT QUANTITY
DS	mmBTU/LB	HEAT QUANTITY
S	G/FT ³	DUST CONTENT
SG	LB/FT ³	BULK DENSITY
T	°F	TEMPERATURE
TP	°F	DEW POINT
UT	°F	AMBIENT TEMPERATURE: 20° WINTER 90° SUMMER
V	X	RELATIVE HUMIDITY: 100%
VB	ACFM	GAS FLOW
VN	SCFM	GAS FLOW
VS	SCF/LB	GAS FLOW
VV	FT ³ /S	GAS FLOW

OPERATING DESIGN		OPERATING DESIGN		OPERATING DESIGN	
G	100	133	100	133	100
SG	158	87	133	100	34
MILL SCALE		FELDSPAR		FLYASH	
BELT SPEED (FPM)		50		225	

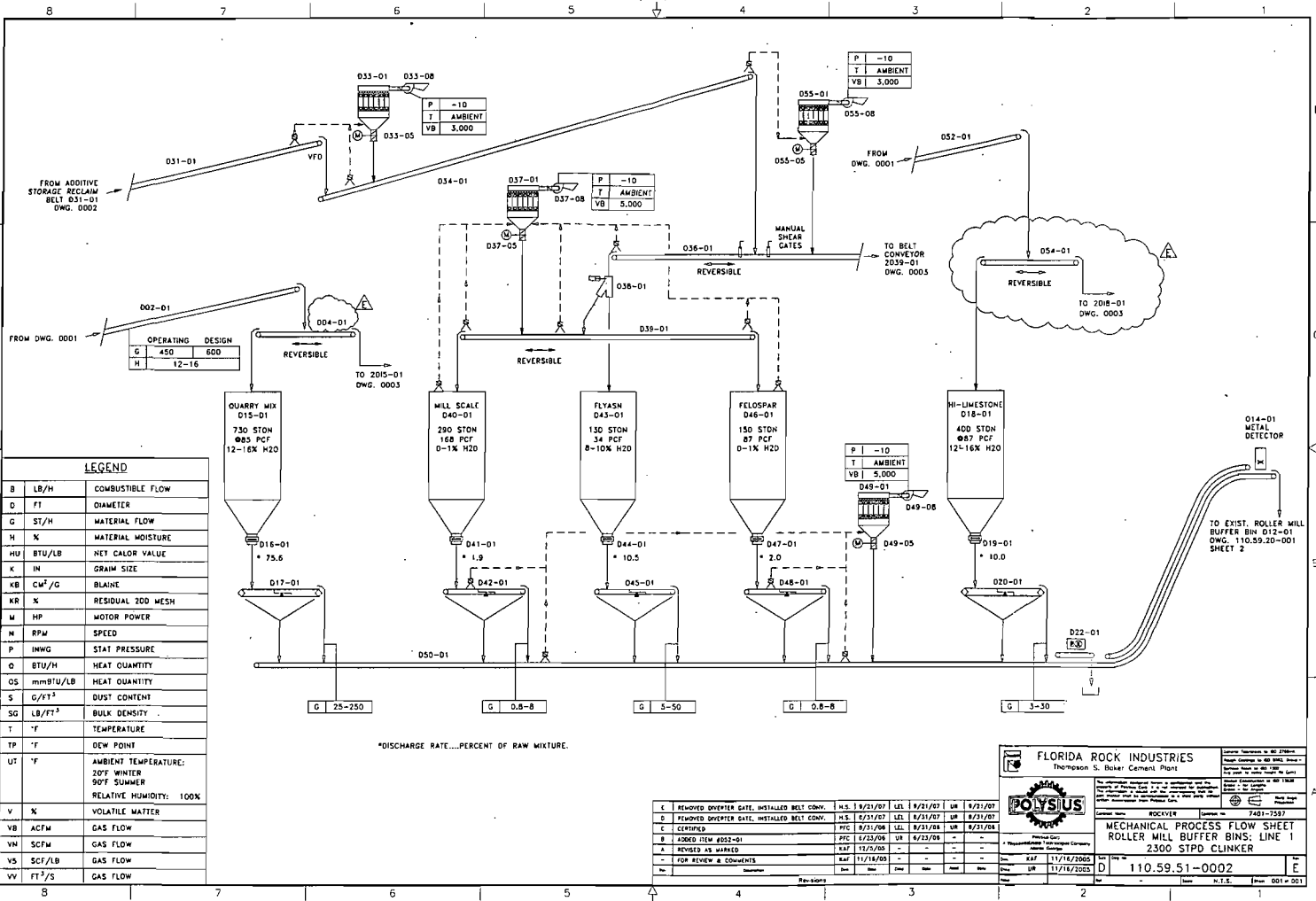
FLORIDA ROCK INDUSTRIES
Thompson S. Baker Cement Plant

POLYSUS

MECHANICAL PROCESS FLOW SHEET
RAW MATERIAL STORAGE
2300 STPD CLINKER

Project No. 110.59.51-0001

Revision: 001 of 001



LEGEND

B	LB/H	COMBUSTIBLE FLOW
D	FT	DIAMETER
G	ST/H	MATERIAL FLOW
M	%	MATERIAL MOISTURE
HU	BTU/LB	NET CALOR VALUE
K	IN	GRAIN SIZE
KB	CM ² /G	BLAINE
KR	X	RESIDUAL 200 MESH
M	HP	MOTOR POWER
N	RPM	SPEED
P	INHG	STAT PRESSURE
Q	BTU/H	HEAT QUANTITY
QS	MMBTU/LB	HEAT QUANTITY
S	G/FT ³	DUST CONTENT
SG	LB/FT ³	BULK DENSITY
T	°F	TEMPERATURE
TP	°F	DEW POINT
UT	°F	AMBIENT TEMPERATURE: 20°F WINTER 90°F SUMMER
V	%	RELATIVE HUMIDITY: 100%
VB	ACFW	GAS FLOW
VN	SCFW	GAS FLOW
V5	SCF/LB	GAS FLOW
VV	FT ³ /S	GAS FLOW

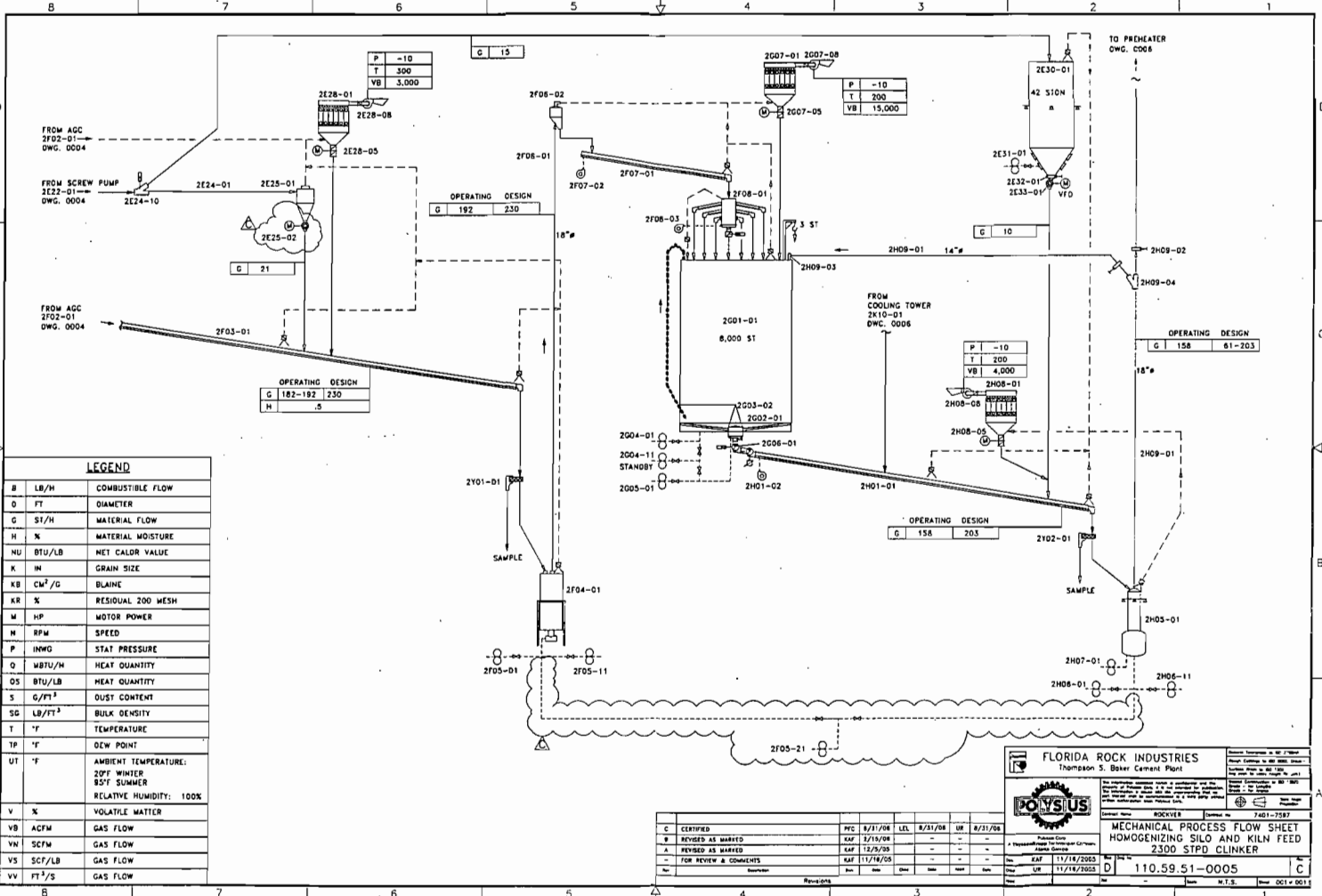
C	REMOVED OPERATOR GATE, INSTALLED BELT CONV.	N.S.	8/21/07	LEL	8/21/07	UR	8/21/07
D	REMOVED OPERATOR GATE, INSTALLED BELT CONV.	N.S.	8/21/07	LEL	8/21/07	UR	8/21/07
E	CERTIFIED	PTC	8/21/08	LEL	8/21/08	UR	8/21/08
F	ADDED ITEM #002-01	PTC	4/23/08	UR	4/23/08	UR	4/23/08
G	REMOVED AS SHOWN	KAF	12/2/05	UR	12/2/05	UR	12/2/05
H	FOR REVIEW & COMMENTS	KAF	11/16/05	UR	11/16/05	UR	11/16/05

FLORIDA ROCK INDUSTRIES
Thompson S. Baker Cement Plant

POYSIUS

MECHANICAL PROCESS FLOW SHEET
ROLLER MILL BUFFER BINS: LINE 1
2300 STPD CLINKER

110.59.51-0002



LEGEND		
B	LB/H	COMBUSTIBLE FLOW
D	FT	DIAMETER
G	SI/H	MATERIAL FLOW
H	%	MATERIAL MOISTURE
NU	BTU/LB	NET CALOR VALUE
K	IN	GRAIN SIZE
KB	CM ² /G	BLAINE
KR	%	RESIDUAL 200 MESH
M	HP	MOTOR POWER
N	RPM	SPEED
P	INWG	STAT PRESSURE
Q	WBTU/H	HEAT QUANTITY
OS	BTU/LB	HEAT QUANTITY
S	G/FT ³	DUST CONTENT
SG	LB/FT ³	BULK DENSITY
T	°F	TEMPERATURE
TP	°F	DEW POINT
UT	°F	AMBIENT TEMPERATURE: 20°F WINTER 85°F SUMMER RELATIVE HUMIDITY: 100%
V	%	VOLATILE MATTER
VB	ACFM	GAS FLOW
VN	SCFM	GAS FLOW
VS	SCF/LB	GAS FLOW
VV	FT ³ /S	GAS FLOW

FLORIDA ROCK INDUSTRIES
Thompson S. Baker Cement Plant

DOVYSUS

MECHANICAL PROCESS FLOW SHEET
HOMOGENIZING SILO AND KILN FEED
2300 STPD CLINKER

110.59.51-0005

REVISED AS MARKED

FOR REVIEW & COMMENTS

NOV 11/18/2003

DEC 11/18/2003

DATE

BY

CHKD

APPD

REV

NOV 11/18/2003

DEC 11/18/2003

DATE

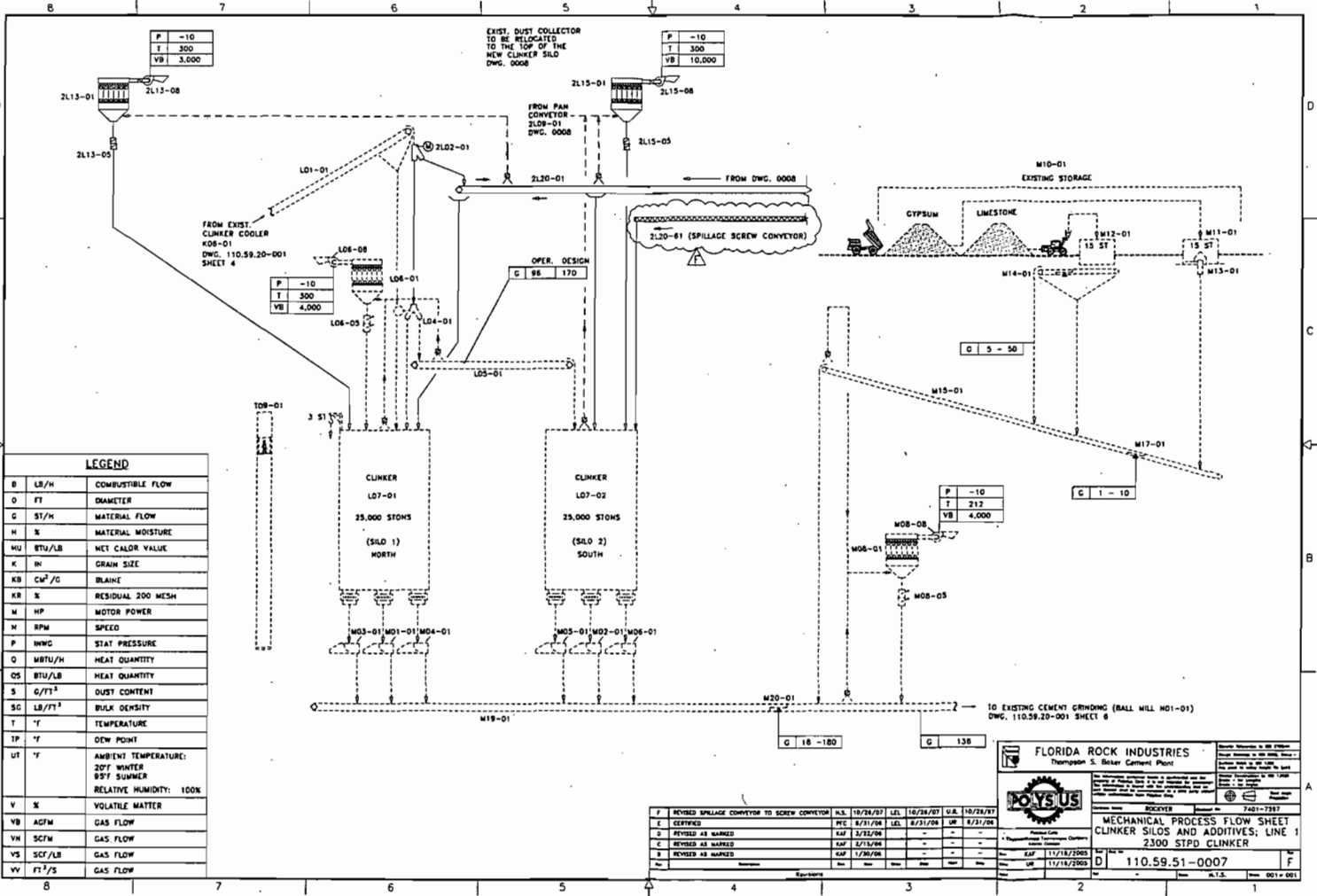
BY

CHKD

APPD

REV

REV	DESCRIPTION	DATE	BY	CHKD	APPD
C	CERTIFIED	8/31/06	LEL	8/31/06	WF
B	REVISED AS MARKED	5/15/04	SAF	5/15/04	SAF
A	REVISED AS MARKED	12/5/03	SAF	12/5/03	SAF
-	FOR REVIEW & COMMENTS	11/18/03	SAF	11/18/03	SAF



LEGEND

B	LB/H	COMBUSTIBLE FLOW
D	FT	DIAMETER
S	ST/H	MATERIAL FLOW
M	%	MATERIAL MOISTURE
MU	BTU/LB	HET CALOR VALUE
K	IN	DRAIN SIZE
KB	CM ² /C	BLAINE
KR	%	RESIDUAL 200 MESH
M	HP	MOTOR POWER
N	RPM	SPEED
P	INHG	STAT PRESSURE
Q	MBTU/H	HEAT QUANTITY
QS	BTU/LB	HEAT QUANTITY
S	C/TT ³	DUST CONTENT
SG	LB/TT ³	BULK DENSITY
T	°F	TEMPERATURE
TP	°F	DEW POINT
UT	°F	AMBIENT TEMPERATURE: 20°F WINTER 95°F SUMMER RELATIVE HUMIDITY: 100%
V	%	VOLATILE MATTER
VB	ACFM	GAS FLOW
VN	SCFM	GAS FLOW
VS	SCF/LB	GAS FLOW
VV	FT ³ /S	GAS FLOW

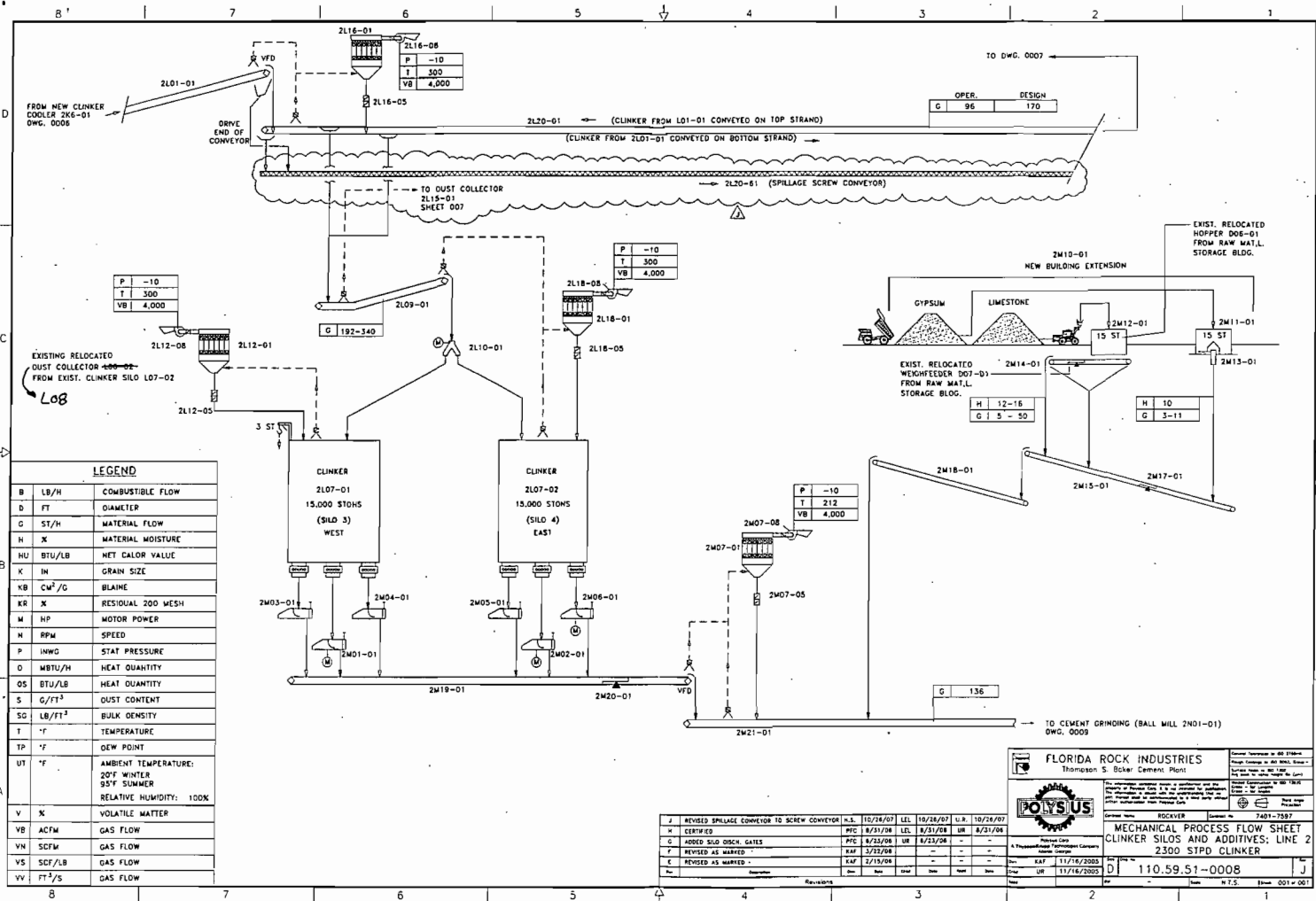
FLORIDA ROCK INDUSTRIES
Thompson S. Baker Cement Plant

POYSUS

MECHANICAL PROCESS FLOW SHEET
CLINKER SILOS AND ADDITIVES; LINE 1
2300 STPD CLINKER

110.59.51-0007

F	REVISED SPILLAGE CONVEYOR TO SCREW CONVEYOR	N.S.	10/28/07	LEL	10/28/07	U.A.	10/28/07
E	CERTIFIED	PMC	8/31/06	LEL	8/31/06	UR	8/31/06
D	REVISED AS MARKED	KAF	3/22/06				
C	REVISED AS MARKED	KAF	3/23/06				
B	REVISED AS MARKED	KAF	1/30/06				



LEGEND		
B	LB/H	COMBUSTIBLE FLOW
D	FT	DIAMETER
G	ST/H	MATERIAL FLOW
H	X	MATERIAL MOISTURE
HU	BTU/LB	NET CALOR VALUE
X	IN	GRAIN SIZE
KB	CM ² /G	BLAINE
KR	X	RESIDUAL 200 MESH
M	HP	MOTOR POWER
N	PPM	SPEED
P	INWG	STAT PRESSURE
Q	MBTU/H	HEAT QUANTITY
QS	BTU/LB	HEAT QUANTITY
S	G/FT ³	DUST CONTENT
SD	LB/FT ³	BULK DENSITY
T	°F	TEMPERATURE
TP	°F	DEW POINT
UT	°F	AMBIENT TEMPERATURE: 20°F WINTER 95°F SUMMER
		RELATIVE HUMIDITY: 100%
V	X	VOLATILE MATTER
VB	ACFM	GAS FLOW
VN	SCFM	GAS FLOW
VS	SCF/LB	GAS FLOW
VV	FT ³ /S	GAS FLOW

FLORIDA ROCK INDUSTRIES
Thompson S. Baker Cement Plant

POLYSIUS

MECHANICAL PROCESS FLOW SHEET
CLINKER SILOS AND ADDITIVES: LINE 2
2300 STPD CLINKER

110.59.51-0008

7401-7597

DATE: 11/16/2005

NO.	REVISION	DATE	BY	CHKD	APP'D
J	REVISED SPILLAGE CONVEYOR TO SCREW CONVEYOR	10/26/07	LEL	10/26/07	UR
H	CERTIFIED	8/31/06	UR	8/31/06	UR
G	ADDED SILO DISCH. GATES	8/31/06	UR	8/31/06	UR
F	REVISED AS MARKED	3/31/06	UR	3/31/06	UR
E	REVISED AS MARKED	2/15/04	UR	2/15/04	UR