



ENVIRONMENTAL SERVICES

4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
352/377-5822 ▪ FAX/377-7158

KA 307-1016
December 13, 2010
Dept. of Environmental Protection
Southwest District
DEC 13 2010

Cindy Zhang
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926

Subject: CEMEX Construction Materials Florida, LLC
Brooksville South Cement Plant, Facility ID: 0530021
Air Construction Permit Application – Kiln 1 – New Baghouse for Clinker
Feeder to Clinker Belt Transfer Point

Dear Ms. Zhang:

Enclosed are four (4) copies of the above-mentioned air construction permit application.

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

Sincerely,

Zhang, Qi
Project Engineer
Koogler and Associates, Inc.

C: George Townsend – CEMEX Construction Materials Florida, LLC

EMISSIONS UNIT INFORMATION

Section [1] of [1] EU 063 Clinker Feeder to Clinker Belt Transfer Point

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes >> Mineral Products >> Cement Manufacturing (Dry Process) >> Raw Material Transfer		
2. Source Classification Code (SCC): 3-05-006-12	3. SCC Units: Tons Handled	
4. Maximum Hourly Rate: 122	5. Maximum Annual Rate: 1,068,720	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Maximum annual rate is based on the hourly rate and 8,760 hr/yr.		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
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:		

**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:	
3. Potential Emissions: 0.27 lb/hour 1.20 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: 0.015 gr/acf Reference: 0530021-021-AV		7. Emissions Method Code: 0	
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: $0.015 \text{ gr/acf} \times 2,125 \text{ acf/min} \times 60 \text{ min/hr} \times 1 \text{ lb}/7,000 \text{ gr} = 0.27 \text{ lb/hr}$ $0.27 \text{ lb/hr} \times 8,760 \text{ hr/yr} \times 1 \text{ ton}/2,000 \text{ lb} = 1.20 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment:			

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

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

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.015 gr/acf	4. Equivalent Allowable Emissions: 0.27 lb/hour 1.20 tons/year
5. Method of Compliance: Annual Method 9, 30 minutes, Surrogate.	
6. Allowable Emissions Comment (Description of Operating Method): Based on BACT and Permit No. 0530021-021-AV.	

Allowable Emissions Allowable Emissions of

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

Allowable Emissions Allowable Emissions of

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

EMISSIONS UNIT INFORMATION

Section [1] of [1] EU 063 Clinker Feeder to Clinker Belt Transfer Point

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: VE05	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual Method 9, 30 minutes.	
5. Visible Emissions Comment: Based on Permit No. 0530021-021-AV and Rule 62-297.310(7), F.A.C.	

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: min/hour	
4. Method of Compliance: Method 22, monthly [or less frequent as prescribed by 40 CFR 63.1350(a)(4)], 1-min.	
5. Visible Emissions Comment: Based on 40 CFR 63.1348.	

EMISSIONS UNIT INFORMATION

Section [1] of [1] EU 063 Clinker Feeder to Clinker Belt Transfer Point

H. CONTINUOUS MONITOR INFORMATION

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

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:	

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 [1] EU 063 Clinker Feeder to Clinker Belt Transfer Point

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 checked="" type="checkbox"/> Attached, Document ID: <u>KA3071016-EU63-I1</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: _____ <input type="checkbox"/> Previously Submitted, Date _____
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>KA3071016-AC-02</u>
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input 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 checked="" type="checkbox"/> <u>To be submitted upon approval</u>
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

ATTACHMENTS

ATTACHMENT KA3071016-AC-02

DESCRIPTION OF PROPOSED CONSTRUCTION

ATTACHMENT KA3071016-AC-02 Description of Proposed Construction

This project entails installing a cartridge dust collector at Kiln #1 clinker silo discharge in between clinker belt weighfeeder M-02 and clinker belt conveyor M-04 to provide de-dusting at the clinker feeder to the clinker belt transfer point. Our discussions with the plant of the best way to do this, is to install a local, horizontal dust collector at this point (similar to the new ones under the line 2 clinker silo discharge venting the weighfeeders/pan conveyor underneath the silo). The collector, less than 1,000 lbs, will be mounted to the belt conveyor truss section just past the feeder chute. The estimated project cost is about \$50K.

The clinker feeder belt is currently vented by EU-012 (M08 Dust Collector) that also vents the discharge of the clinker, gypsum and limestone bins at Finish Mill No. 1.



GE Energy
BHA Group, Inc.

Quotation
Cemex
Brooksville, FL

14 Filter Horizontal Dust Collector for
Clinker Tunnel

Page: 1 of 9
Date: 23-Aug-2010
Quote No: 10-AN-0823-12
Rev: 0

1.- Proposal Information

1.1.- Title

14 Filter Horizontal Dust Collector for Clinker Tunnel

1.2.- Proposal Number

10-AN-0823-12 Rev: 0

1.3.- Buyer

Cemex
Brooksville, FL

1.4.- Seller

GE Energy, BHA Group Inc
8800 63rd St, Raytown, MO, USA

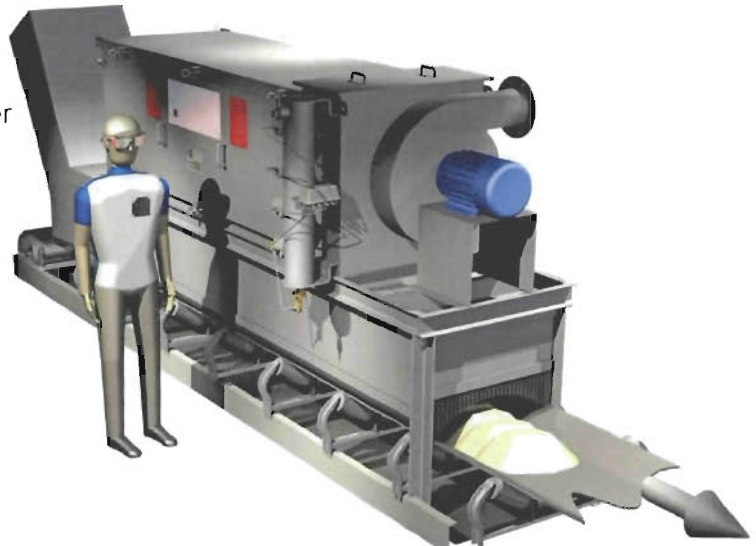


Figure 1: Typical Installed Collector

2.- Design Data

Buyer requested the seller to design and furnish a pulse-jet dust collector for venting a belt transfer point at an airflow rate of as stated in the table below.

Buyer provided the following information, to allow Seller to develop the optimal baghouse design for this application.

Description	Value
Belt Application	Clinker Tunnel
Belt Width	24
Required Air Volume (ACFM)	2125
Process Temp (°F)	175
Type of Dust	Clinker

3.- Technical Solution

The seller is proposing to furnish a horizontal pulse-jet dust collector for venting the belt conveyor transfer point. The design air volume was calculated in accordance with the Industrial Ventilation Manual (IVM). Based on this calculation our 6-element horizontal dust collector was selected for your application's belt width, belt speed, temperature, and elevation.

The Horizontal Dust Collector (HDC) design provides significant benefits over traditional collector designs. The HDC offers the following benefits:

- Low Profile - The HDC unit can fit in low headroom clearances typical with belt conveyor installation
- Eliminates Costly Ductwork - Ductwork is difficult to design, costly to install, high maintenance, and difficult to maintain a system balance. The HDC requires no ductwork.



GE Energy
BHA Group, Inc.

Quotation
Cemex
Brooksville, FL

14 Filter Horizontal Dust Collector for
Clinker Tunnel

Page: 2 of 9
Date: 23-Aug-2010
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Rev: 0

- Easy to Install – The HDC comes fully assembled and if spaces allows at your facility you can simply lift the unit off the back of a truck and onto the belt enclosure.
- Simple to Maintain
- Efficient – Lower energy consumption with less static pressure on the fan and no material handling equipment.
- No Material Handling Equipment – The HDC pulse material back onto the belt conveyor eliminating the need for hoppers, airlocks, pneumatic conveyors, screw conveyors, and etc.

Seller's uniquely designed HDC uses PulsePleat® filter elements mounted in a horizontal orientation to create a compact unit design to fit in restricted spaces. The design of seller's HDC eliminates the need for material handling equipment by pulsing the material directly back onto the belt with each cleaning of the elements.

The dust collector can be furnished as a fully assembled unit, similar to Figure 1, ready to be installed onto the easily accessed mounting flange of the customer supplied belt enclosure. If there is restricted access to the conveyor location the dust collector can be furnished in a panelized configuration, Figure 2, to allow for installation into restricted access areas. The panelized configuration arrives in pieces that personnel can hand carry to the conveyor location for field-welded assembly on site. Please specify which configuration you would like to your sales representative and seller will provide the collector that meets your needs.

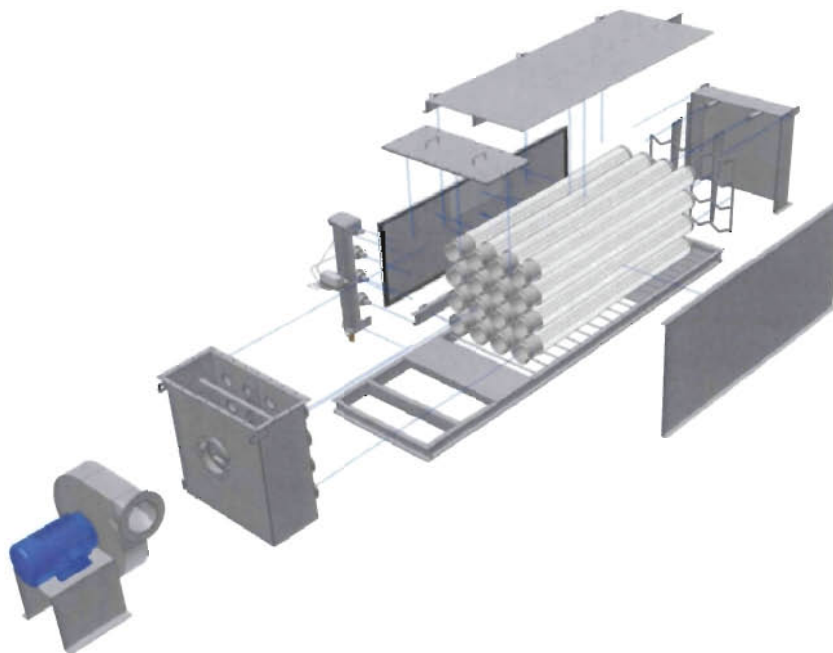


Figure 2: Panelized Dust Collector

The dust collector is designed for installation onto a conveyor enclosure, provided by the buyer, of the belt and discharge chute with a support flange on the enclosure to match the bottom flange of seller's dust collector. The belt enclosure must comply with the guidelines of the IVM; Figure 4 is an installation drawing detailing seller's HDC.



GE Energy
BHA Group, Inc.

Quotation
Cemex
Brooksville, FL

14 Filter Horizontal Dust Collector for
Clinker Tunnel

Page: 3 of 9
Date: 23-Aug-2010
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Rev: 0

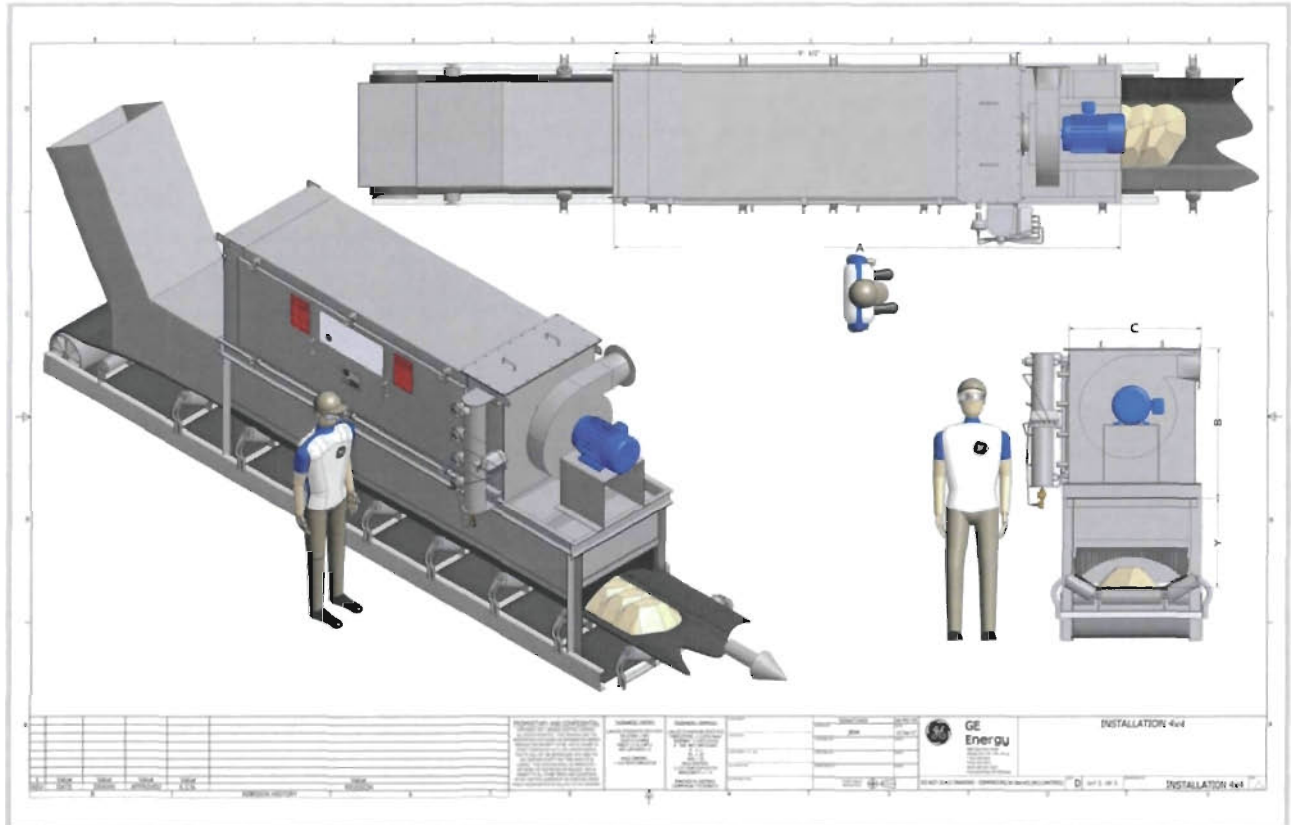


Figure 3: Typical Installed Drawing

CUSTOMER MUST CONFIRM THAT REQUIRED INSTALLED DIMENSIONS IN TECHNICAL DESCRIPTION OF COLLECTOR SECTION WILL BE AVAILABLE

The PulsePleat® spunbond polyester filter elements are easily accessed through a side-mounted door and clamp to bag cups located on the dirty side of the tubesheet. The door orientation can be specified either right or left hand based on customer's need and space available. Please specify which configuration you would like to your sales representative and the seller will provide the HDC to fit into the space available at the conveyor location.

Seller designs the HDC collectors for reliability and low maintenance. Seller's pulse-on-demand controller maximizes life of the filter elements and minimizes consumption of compressed air by cleaning the filter elements only when necessary to maintain the desired differential pressure across the filters. The fan is mounted onto the end of the dust collector frame for a compact design and ease of installation.



GE Energy
BHA Group, Inc.

Quotation
Cemex
Brooksville, FL

14 Filter Horizontal Dust Collector for
Clinker Tunnel

Page: 4 of 9
Date: 23-Aug-2010
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Rev: 0

3.1.- Technical Description of Collector

Description	Value
Air Volume ACFM	2125
Normal Operating Temperature (°F)	150
Peak Operating Temperature (°F)	200
Max. Rated Filter Temperature (°F)	265
Number of Rows	4
Total Number of Filters	14
Filter Material	Spunbond Polyester (PE806)
Total Filtration Area (sq. ft.)	689
Air to Cloth Ratio	3.09
Can Velocity (FPM)	Less 200
Filter Diameter (in)	6.13
Filter Length (in)	81
Norm. Est. Comp. Air Req,d (SCFM)	6
Max. Est. Comp. Air Req,d. (SCFM)	20

Collector Dimensions	Value
Figure 4: Dimension A* (in)	149
Figure 4: Dimension B* (in)	39
Figure 4: Dimension C* (in)	34
Figure 4: Dimension Y* (in)	18-24
Total Height Needed Above Belt	57-63
Housing Material Thickness (ga.)	10
Tubesheet Thickness (in.)	3/16
Housing Pressure Rating (in.)	17

*Dimensions are Preliminary and subject to Final Engineering

4.- Seller's Scope of Supply

All electrical equipment defined in this scope of supply will be in accordance with CE, VDE, NEMA, and NFPA requirements as applicable by end user local regulations. All steel shapes defined in this scope of supply will be in accordance of ASTM/DIN/GOST as applicable by end user local regulations.

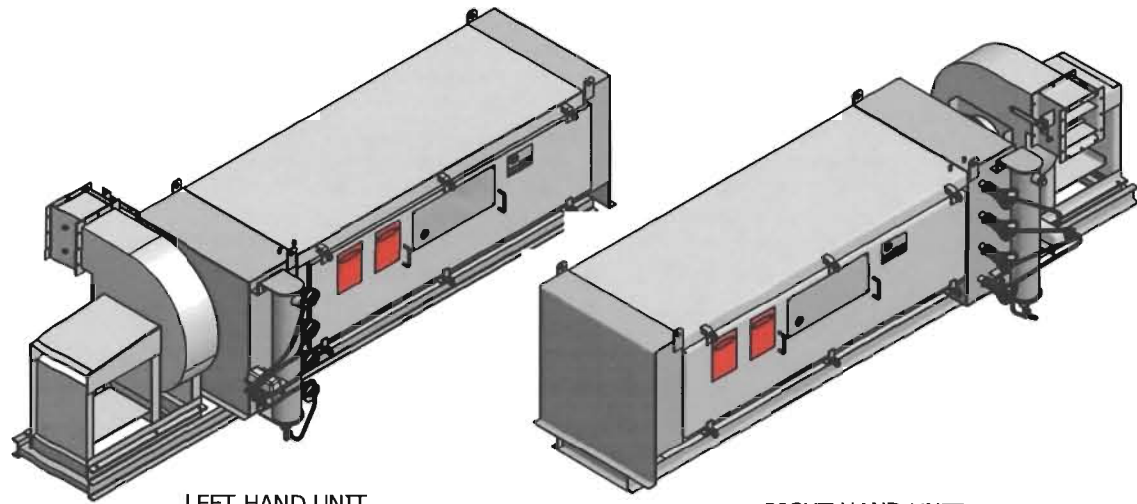
4.1.- Pleated Filter Media

PulsePleat® Spunbond Polyester Filter Elements

The filter elements are constructed of a pleated spunbond polyester filter media with a wide pleat spacing that provides excellent filtration efficiency and dust cake release. This filter media has higher filtration efficiency than polyester felt or woven bags.

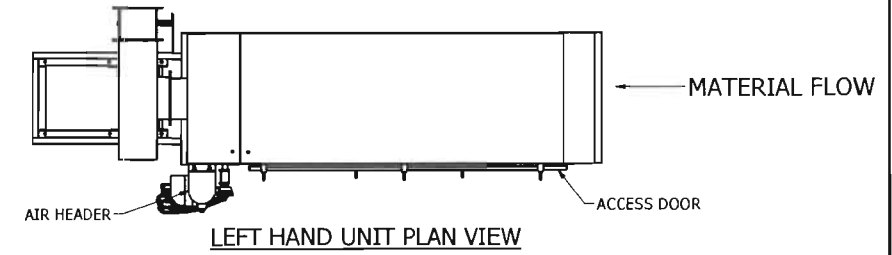
BA Pleat® Construction

The collector will have bottom load pleat removal allowing the bags to be installed and removed from the dirty side of the tubesheet allowing for compact designs. With the built-in support core there is no need for a separate cage, simplify and reducing installation time. The BA urethane top construction slips over a pleat cup that is bolted to the bottom of the tubesheet and allows the pleats to be clamped on to the cup ensuring no particulate can bypass the filters in low to medium temperature gas applications.

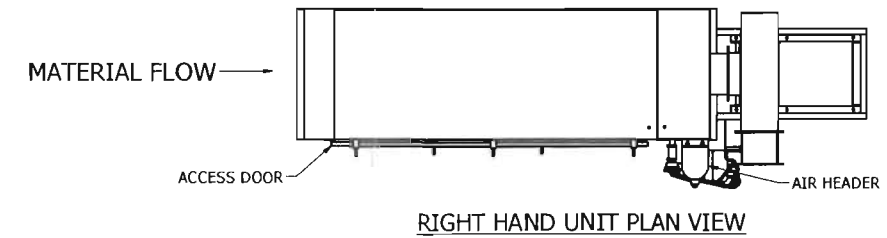


LEFT HAND UNIT

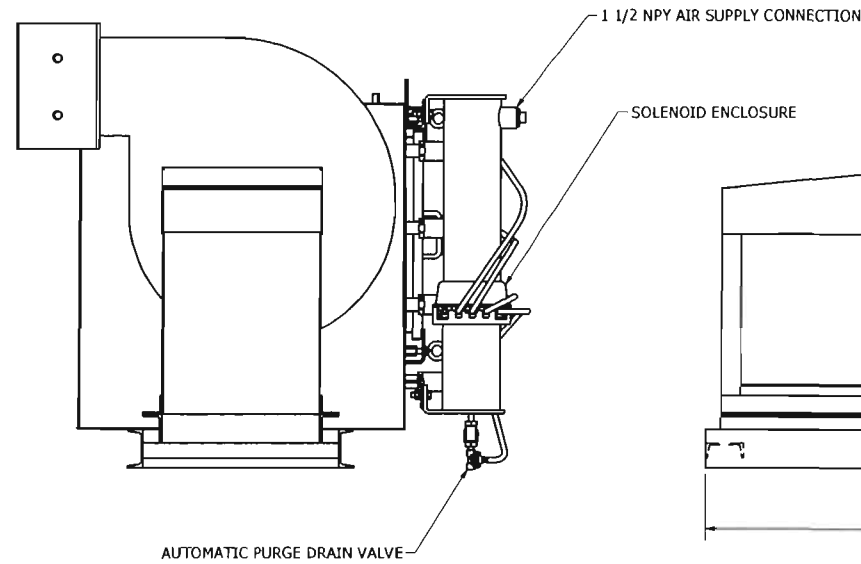
RIGHT HAND UNIT



LEFT HAND UNIT PLAN VIEW



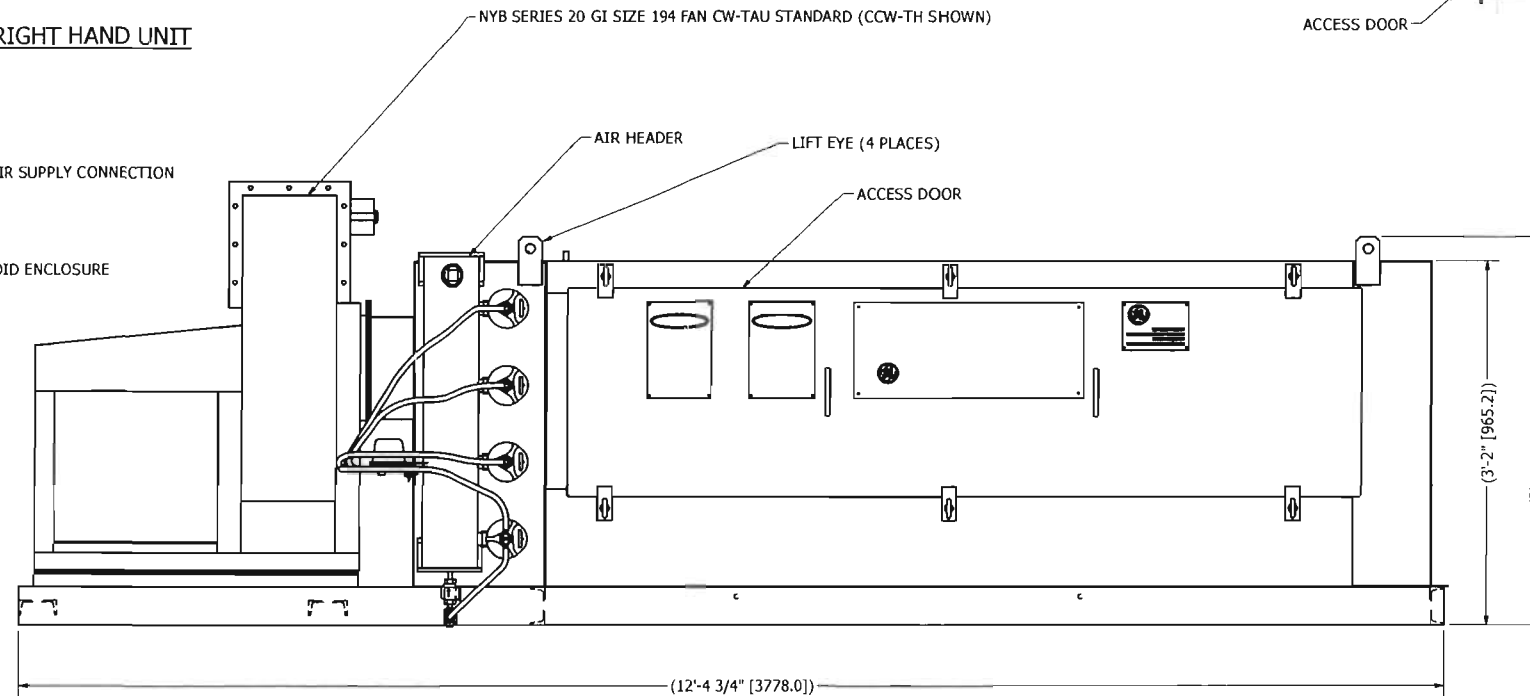
RIGHT HAND UNIT PLAN VIEW



AUTOMATIC PURGE DRAIN VALVE

1 1/2 NPY AIR SUPPLY CONNECTION

SOLENOID ENCLOSURE



NYB SERIES 20 GI SIZE 194 FAN CW-TAU STANDARD (CCW-TH SHOWN)

AIR HEADER

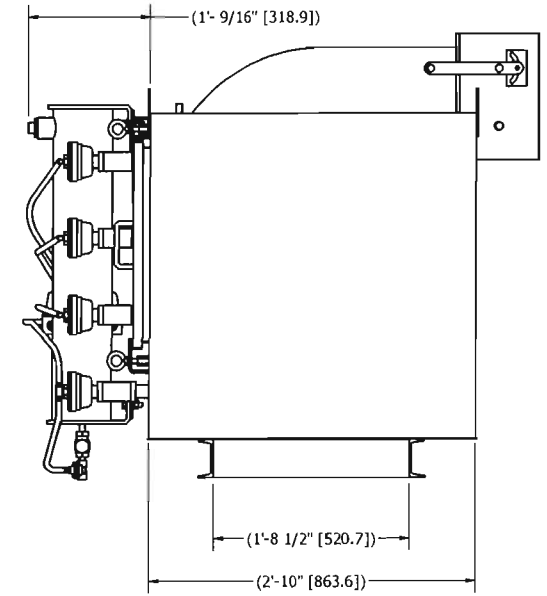
LIFT EYE (4 PLACES)

ACCESS DOOR

(12'-4 3/4" [3778.0])

(3'-2" [965.2])
(3'-4 1/2" [1028.7])

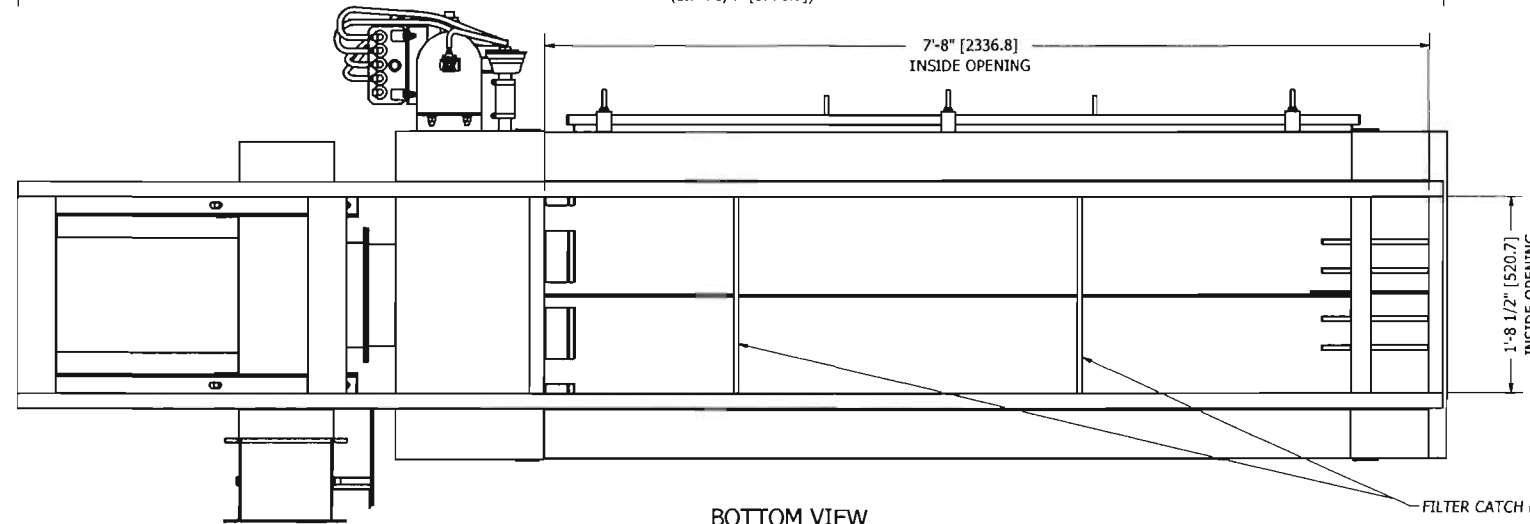
7'-8" [2336.8]
INSIDE OPENING



(1'-9/16" [318.9])

(1'-8 1/2" [520.7])

(2'-10" [863.6])



BOTTOM VIEW

FILTER CATCH BAR

ORDER INFORMATION REQUIRED:

- PANELIZED OR SHOP ASSEMBLED
- LEFT HAND OR RIGHT HAND UNIT
- FAN ROTATION & DISCHARGE POSITION (CW-TAU STANDARD)
- OPERATING TEMPERATURE

PROPRIETARY AND CONFIDENTIAL
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 WHICH INCORPORATES OR RELATES TO THIS DRAWING.

TOLERANCES (METRIC)
 (UNLESS OTHERWISE SPECIFIED)
 EN 22768-1 1997
 CLASS C-COARSE
 TABLES 1,2 & 3 APPLY
 HOLE UPWARDS ± 0.1

HOLE CENTERS:
 ± 1mm NON-CUMULATIVE

TOLERANCES (IMPERIAL)
 (UNLESS OTHERWISE SPECIFIED)
 FABRICATION: ± 1/16" [1.6mm]
 ASSEMBLY: ± 1/8" [3.2mm]
 X - REF. NOT APPLICABLE
 XX ± .1
 XXX ± .01
 HOLE CENTERS:
 ± 1.02" NON-CUMULATIVE
 ANGULARITY ± 1°

FORGINGS & CASTINGS:
 COMMERCIAL TOLERANCES.

CUSTOMER:	SIGNATURES		DA-MO-YR
LOCATION:	CJD	DATE	15-Jan-10
CUSTOMER P.O. NO.:	CHECKED BY	DATE	
GE ORDER NO.:	CHECKED BY	DATE	
GE PROJECT NO.:	APPROVED BY	DATE	
	THIRD ANGLE PROJECTION		



HORIZONTAL COLLECTOR
4X4X42
14 FILTER
GENERAL ARRANGEMENT

DO NOT SCALE DRAWING - DIMENSIONS IN INCHES [MILLIMETERS]

SHT 3 OF 11

08472390

ATTACHMENT KA3071016-AC-03
RULE APPLICABILITY ANALYSIS

ATTACHMENT KA3071016-AC-03
Rule Applicability Analysis

Rule 62-4, F.A.C. - Permits

Rule 62-204, F.A.C. – Air Pollution Control – General Provisions

Rule 62-204.800, F.A.C. – Federal Standards Adopted by Reference

Rule 62-204.800(8)(b)9., F.A.C. – Federal Standards Adopted – 40 CFR 63, Subpart LLL

Rule 62-210, F.A.C. – Stationary Sources – General Requirements

Rule 62-210.700(1), F.A.C. – Excess Emissions from Startup, Shutdown, or Malfunction

Rule 62-210.700(4), F.A.C. – Excess Emissions from Poor Maintenance or Operation

Rule 62-210.700(6), F.A.C. – Excess Emissions - Notification

Rule 62-212, F.A.C. – Stationary Sources – Preconstruction Review

Rule 62-212.400, F.A.C. - PSD

Rule 62-212.410, F.A.C. - BACT

Rule 62-213, F.A.C. – Operation Permits for Major Sources of Air Pollution

Rule 62-296, F.A.C. – Stationary Sources – Emission Standards

Rule 62-297, F.A.C. – Stationary Sources – Emissions Monitoring

40 CFR 60, Appendix A – Standards of Performance for New Stationary Sources – Test Methods

40 CFR 61 – National Emission Standards for Hazardous Air Pollutants (NESHAP)

40 CFR 63, Subpart A – NESHAP General Provisions

40 CFR 63, Subpart LLL – NESHAPs from the Portland Cement Manufacturing Industry

40 CFR 63.1342(b) – Emission Limits and Operating Limits

40 CFR 63.1348 – Standards

40 CFR 63.1349(f) – Performance Test Requirements

40 CFR 63.1350(a) – Operation & Maintenance Plan Required

40 CFR 63.1350(j) – Opacity Monitoring in Accordance with O&M Plan

40 CFR 63.1351 – Compliance Dates

40 CFR 63.1353 – Notification Requirements

40 CFR 63.1354 – Reporting Requirements

40 CFR 63.1355 – Recordkeeping Requirements

40 CFR 63.1356 – Exemption from NSPS

ATTACHMENT KA3071016-EU63-I1
PROCESS FLOW DIAGRAM – EU 063

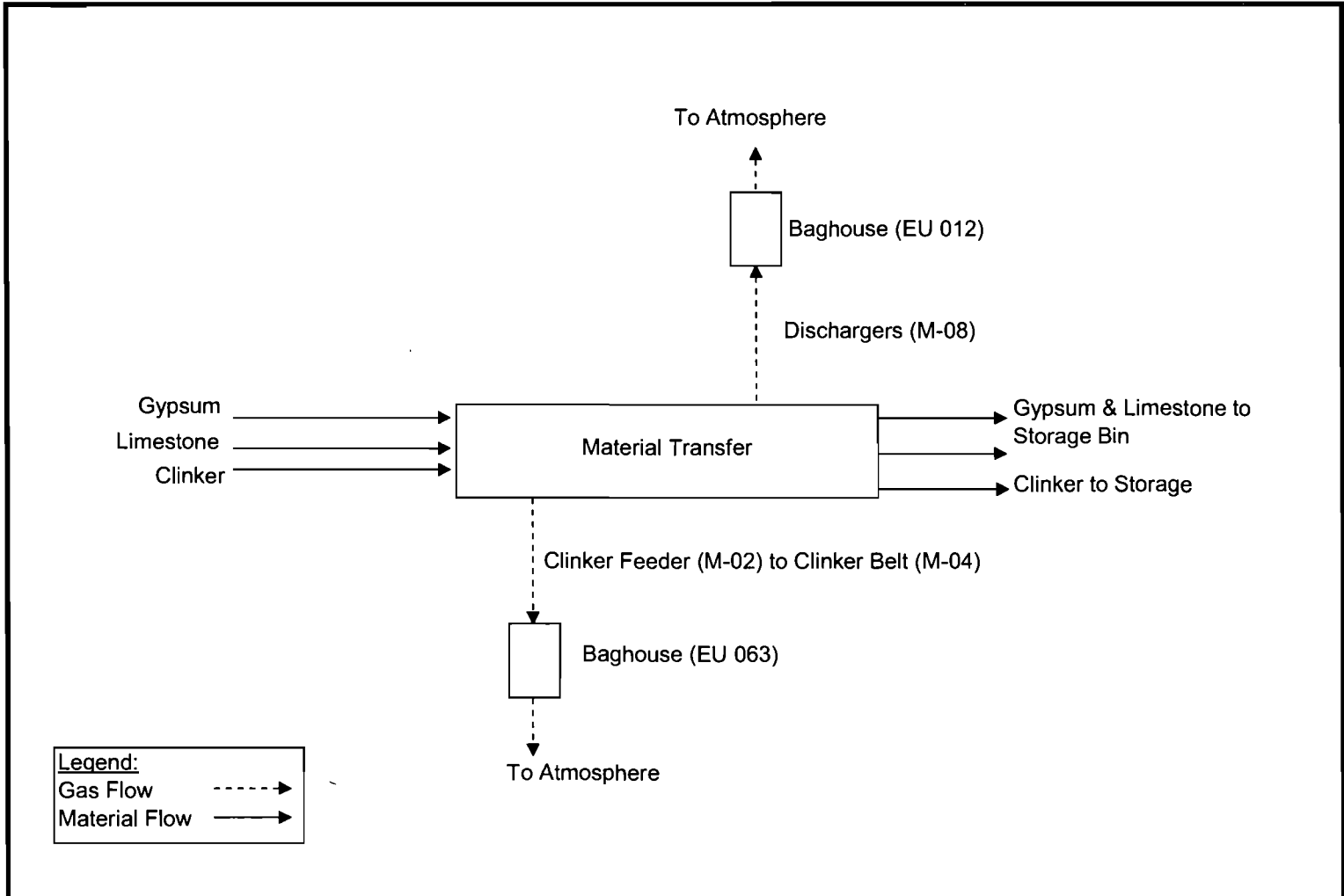


Figure KA3071016-EU63-I1. Process Flow Diagram

Clinker Feeder to Clinker Belt Transfer Point

CEMEX Construction Materials Florida, LLC -- Brooksville Cement Plants



Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

Dept. Of Environmental Protection
DEC 13 2010
Southwest District

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: CEMEX Construction Materials Florida, LLC	
2. Site Name: Brooksville South Cement Plant	
3. Facility Identification Number: 0530021	
4. Facility Location... Street Address or Other Locator: 10311 Cement Plant Road City: Brooksville County: Hernando Zip Code: 34601	
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: Qi Zhang, Project Engineer	
2. Application Contact Mailing Address... Organization/Firm: Koogler and Associates, Inc. Street Address: 4014 Northwest 13th Street City: Gainesville State: Florida Zip Code: 32609	
3. Application Contact Telephone Numbers... Telephone: (352) 377-5822 ext. Fax: (352) 377-7158	
4. Application Contact E-mail Address: qzhang@kooglerassociates.com	

Application Processing Information (DEP Use)

1. Date of Receipt of Application: 12/13/10	3. PSD Number (if applicable):
2. Project Number(s): 0530021-030-AC	4. Siting Number (if applicable):

APPLICATION INFORMATION

Purpose of Application

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

Air Construction Permit

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

Air Operation Permit

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

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

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

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

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

Application Comment

This project entails installing a cartridge dust collector at Kiln 1 clinker silo discharge in between clinker belt weighfeeder M-02 and clinker belt conveyor M-04 to provide de-dusting at the clinker feeder to the clinker belt transfer point (EU 063). The collector, less than 1,000 pounds, will be mounted to the belt conveyor truss section just past the feeder chute. The clinker feeder belt is currently vented by EU 012 (M-08 Dust Collector) that also vents discharge of the clinker, gypsum and limestone bins at Finish Mill No.1.

APPLICATION INFORMATION

Owner/Authorized Representative Statement

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

1. Owner/Authorized Representative Name : Jim Daniel, Cement Plant Manager
2. Owner/Authorized Representative Mailing Address... Organization/Firm: CEMEX Construction Materials Florida, LLC Street Address: 10311 Cement Plant Road City: Brooksville State: Florida Zip Code: 34601
3. Owner/Authorized Representative Telephone Numbers... Telephone: (352) 799-7881 ext. Fax: (352) 540-4794
4. Owner/Authorized Representative E-mail Address: jdaniel@cemexusa.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

APPLICATION INFORMATION

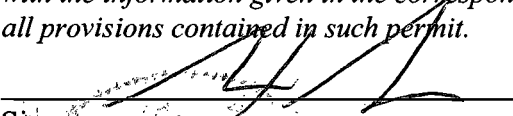
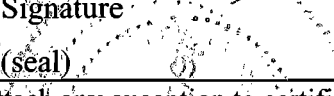
Application Responsible Official Certification

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

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

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Maxwell R. Lee, Ph. D., P. E. Registration Number: 58091
2. Professional Engineer Mailing Address... Organization/Firm: Koogler and Associates, Inc. Street Address: 4014 Northwest 13th Street City: Gainesville State: Florida Zip Code: 32609
3. Professional Engineer Telephone Numbers... Telephone: (352) 377-5822 ext. 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> <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i> <i>(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.</i> <i>(3) 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> <i>(4) 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> <i>(5) 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  (seal)  Date <u>12/7/10</u>

* Attach any exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 360.0 North (km) 3162.5		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
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 :			

Facility Contact

1. Facility Contact Name: George Townsend, Environmental Manager
2. Facility Contact Mailing Address... Organization/Firm: CEMEX Construction Materials Florida, LLC Street Address: 10311 Cement Plant Road City: Brooksville State: Florida Zip Code: 34601
3. Facility Contact Telephone Numbers: Telephone: (352) 799-7881 ext. Fax: (352) 799-6088
4. Facility Contact E-mail Address: gtownsend@cemexusa.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

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: 11/8/2010
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: 11/8/2010
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: 11/8/2010

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: KA3071016-AC-02
3. Rule Applicability Analysis: <input checked="" type="checkbox"/> Attached, Document ID: KA3071016-AC-03
4. List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications

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

Additional Requirements for Title V Air Operation Permit Applications

- | |
|--|
| 1. List of Insignificant Activities: (Required for initial/renewal applications only)
<input type="checkbox"/> Attached, Document ID: _____ <input 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. |
| 4. List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only)
<input type="checkbox"/> Attached, Document ID: _____
<input type="checkbox"/> Equipment/Activities Onsite but Not Required to be Individually Listed
<input 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 |
| 6. Requested Changes to Current Title V Air Operation Permit:
<input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> 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)):

- Attached, Document ID: _____ Previously Submitted, Date: _____
 Not Applicable (not an Acid Rain source)

Phase II NO_x Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):

- Attached, Document ID: _____ Previously Submitted, Date: _____
 Not Applicable

New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):

- Attached, Document ID: _____ Previously Submitted, Date: _____
 Not Applicable

2. CAIR Part (DEP Form No. 62-210.900(1)(b)):

- Attached, Document ID: _____ Previously Submitted, Date: _____
 Not Applicable (not a CAIR source)

Additional Requirements Comment

EMISSIONS UNIT INFORMATION

Section [1] of [1] EU 063 Clinker Feeder to Clinker Belt Transfer Point

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 [1] EU 063 Clinker Feeder to Clinker Belt Transfer Point

Dept. Of Environmental Protection
DEC 13 2010
 Southeast District

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 Feeder (M-02) to Clinker Belt (M-04) Transfer Point

3. Emissions Unit Identification Number: **063**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	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

9. Package Unit:
 Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment: **This emissions unit currently vents the activity of clinker, gypsum or limestone being transferred from their silos, and clinker feeder belt from one baghouse. This project is to install a new baghouse to vent the clinker feeder belt separately.**

EMISSIONS UNIT INFORMATION

Section [1] of [1] EU 063 Clinker Feeder to Clinker Belt Transfer Point

Emissions Unit Control Equipment/Method: Control 1 of 1

- | |
|---|
| 1. Control Equipment/Method Description:
Baghouse (2) – Low Temperature |
| 2. Control Device or Method Code: 018 |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

Emissions Unit Control Equipment/Method: Control ___ of ___

- | |
|--|
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

EMISSIONS UNIT INFORMATION

Section [1] of [1] EU 063 Clinker Feeder to Clinker Belt Transfer Point

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 122 TPH
2. Maximum Production Rate:
3. Maximum Heat Input Rate: million Btu/hr
4. Maximum Incineration Rate: 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:

EMISSIONS UNIT INFORMATION

Section [1] of [1] EU 063 Clinker Feeder to Clinker Belt Transfer Point

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: M-02, M-04		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 35 feet	7. Exit Diameter: 1 feet	
8. Exit Temperature: 175 °F	9. Actual Volumetric Flow Rate: 2,125 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: Stack parameters are based on preliminary construction proposal (Attachment KA3071016-AC-02) and subject to final engineering.			