



**APPLICATION FOR
TITLE V PERMIT RENEWAL
TITAN AMERICA, LLC
MEDLEY, FLORIDA**

**Prepared For:
Titan America, LLC
455 Fairway Drive
Deerfield Beach, Florida 33441**

Prepared By:



**6241 NW 23rd Street, Suite 500
Gainesville, Florida 32653-1500**

April 2005

0537552

DISTRIBUTION:

**4 Copies – FDEP
2 Copies – Titan America, Inc.
2 Copies – Golder Associates Inc.**

Best Available Copy

Golder Associates Inc.

6241 NW 23rd Street, Suite 500
Gainesville, FL USA 32653
Telephone (352) 336-5600
Fax (352) 336-6603
www.golder.com



April 27, 2005

0537552

Florida Department of Environmental Protection
2600 Blair Stone Road, MS #5505
Tallahassee, FL 32399-2400

RECEIVED

APR 28 2005

BUREAU OF AIR REGULATION

Attention: Mr. A. A. Linero, Air Permitting South

RE: TITAN AMERICA, INC
TITLE V PERMIT NO. 0250020-011-AV
APPLICATION TO RENEW TITLE V PERMIT

Dear Mr. Linero:

Project No. = 0250020-011-AV

Please find enclosed four (4) copies of a Title V operating permit renewal application for Titan America Inc.'s portland cement plant located in Medley, Dade County, Florida. The Compliance Assurance Monitoring (CAM) Plan for the facility will be submitted to the Department within the next few weeks. Thank you for consideration of this application. If you have any questions, please do not hesitate to call me at (352)336-5600.

Sincerely,

GOLDER ASSOCIATES INC.

David A. Buff, P.E., Q.E.P.
Principal Engineer

DB/SM/nav

cc: Scott Quaas
Miami Dade Co. ERM

Y:\Projects\2005\0537552 Tarmac Medley Title V\4.1\042705-552.doc



**APPLICATION FOR
TITLE V PERMIT RENEWAL
TITAN AMERICA, LLC
MEDLEY, FLORIDA**

**Prepared For:
Titan America, LLC
455 Fairway Drive
Deerfield Beach, Florida 33441**

**Prepared By:
Golder Associates Inc.
6241 NW 23rd Street, Suite 500
Gainesville, Florida 32653-1500**

April 2005

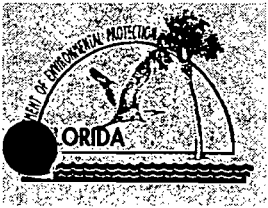
0537552

DISTRIBUTION:

4 Copies – FDEP

2 Copies – Titan America, Inc.

2 Copies – Golder Associates Inc.



Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

RECEIVED

APR 28 2005

BUREAU OF AIR REGULATION

I. APPLICATION INFORMATION

Air Construction Permit – 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
- at an existing federally enforceable state air operation permit (FESOP) or Title V permitted facility.

Air Operation Permit – Use this form to apply for:

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

Air Construction Permit & Revised/Renewal 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: Titan America, LLC	
2. Site Name: Pennsuco	
3. Facility Identification Number: 0250020	
4. Facility Location...: Street Address or Other Locator: 11000 N.W. 121 Way City: Medley County: Dade Zip Code: 33178	
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: Scott Quaas, Environmental Manager	
2. Application Contact Mailing Address... Organization/Firm: Titan America, LLC Street Address: 455 Fairway Drive City: Deerfield Beach State: FL Zip Code: 33441	
3. Application Contact Telephone Numbers... Telephone: (954) 425-4165 ext. Fax: (954) 480-9352	
4. Application Contact Email Address: squaas@titanamerica.com	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Project Number(s):	0250020-018-AV
3. PSD Number (if applicable):	
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 Operation Permit

Initial Title V air operation permit.

Title V air operation permit revision.

Title V air operation permit renewal.

Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.

Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

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

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

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

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

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

Application Comment

Application to renew Title V Permit No. 0250020-011-AV.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
026	Coal Handling System		
027	Clinker Handling and Storage		
010, 012, 013, 030	Finish Mill Nos. 1, 3, 4, and 6		
028	Raw Mill and Pyroprocessing Unit		
029	Raw Materials Handling		
014, 015, 016	Cement Storage/Packhouse/Loadout		
024	Concrete Block Plant		
025	Ready Mix Plant		
022, 023	Aggregate Plant		
	Unregulated Units		

Application Processing Fee

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

APPLICATION INFORMATION

Owner/Authorized Representative Statement

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

1. Owner/Authorized Representative Name :
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
3. Owner/Authorized Representative Telephone Numbers... Telephone: () - ext. Fax: () -
4. Owner/Authorized Representative Email Address:
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

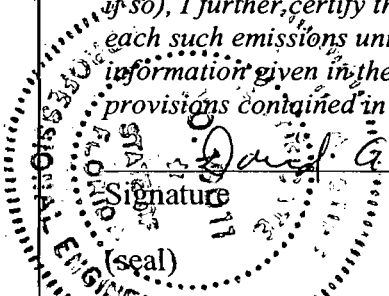
Application Responsible Official Certification

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: Hardy Johnson, President, Florida Division
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input checked="" 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: Tarmac America, LLC Street Address: 455 Fairway Drive City: Deerfield Beach State: Florida Zip Code: 33441
4. Application Responsible Official Telephone Numbers... Telephone: (954) 481-2808 ext. Fax: (954) 421-0296
5. Application Responsible Official Email Address:
6. Application Responsible Official Certification: I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application. <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p>_____ Signature</p> </div> <div style="width: 45%;"> <p><u>4/22/05</u> Date</p> </div> </div>

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: David A. Buff Registration Number: 19011
2. Professional Engineer Mailing Address... Organization/Firm: Golder Associates Inc.** Street Address: 6241 NW 23rd Street, Suite 500 City: Gainesville State: FL Zip Code: 32653
3. Professional Engineer Telephone Numbers... Telephone: (352) 336-5600 ext. 545 Fax: (352) 336-6603
4. Professional Engineer Email Address: dbuff@golder.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 checked="" 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 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: <u>David A. Buff</u> Date: <u>4/27/05</u>

Attach any exception to certification statement.

Board of Professional Engineers Certificate of Authorization #00001670

FACILITY INFORMATION

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 562.8 North (km) 2861.7		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 25/52/30 Longitude (DD/MM/SS) 80/22/30	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 32	6. Facility SIC(s): 3241, 3271, 3273
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: Scott Quaas, Environmental Manager
2. Facility Contact Mailing Address... Organization/Firm: Titan America, LLC Street Address: 455 Fairway Drive City: Deerfield Beach State: FL Zip Code: 33441
3. Facility Contact Telephone Numbers: Telephone: (954) 425-4165 ext. Fax: (954) 480-9352
4. Facility Contact Email Address: squaas@titanamerica.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 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 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:	

FACILITY INFORMATION

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
Particulate Matter Total - PM	A	N
Particulate Matter - PM ₁₀	A	N
Nitrogen Oxides - NO _x	A	N
Sulfur Dioxide - SO ₂	A	N
Carbon Monoxide - CO	A	N
Hydrochloric Acid - H106	A	N
Dioxins/Furans - DIOX	B	N
Volatile Organic Compounds - VOC	B	N
Sulfuric Acid Mist - SAM	B	N

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 checked="" type="checkbox"/> Attached, Document ID: TM-FI-C1 <input type="checkbox"/> Previously Submitted, Date: _____
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: TM-FI-C2 <input type="checkbox"/> Previously Submitted, Date: _____
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 checked="" type="checkbox"/> Attached, Document ID: TM-FI-C3 <input type="checkbox"/> Previously Submitted, Date: _____

Additional Requirements for Air Construction Permit Applications

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (existing permitted facility)
2. Description of Proposed Construction or Modification: <input type="checkbox"/> Attached, Document ID: _____
3. Rule Applicability Analysis: <input type="checkbox"/> Attached, Document ID: _____
4. 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)
5. Fugitive Emissions Identification (Rule 62-212.400(2), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
6. Preconstruction Air Quality Monitoring and Analysis (Rule 62-212.400(5)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
7. Ambient Impact Analysis (Rule 62-212.400(5)(d), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(5)(h)5., F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(5)(e)1. and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

FACILITY INFORMATION

Additional Requirements for FESOP Applications

- | |
|--|
| 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) |
|--|

Additional Requirements for Title V Air Operation Permit Applications

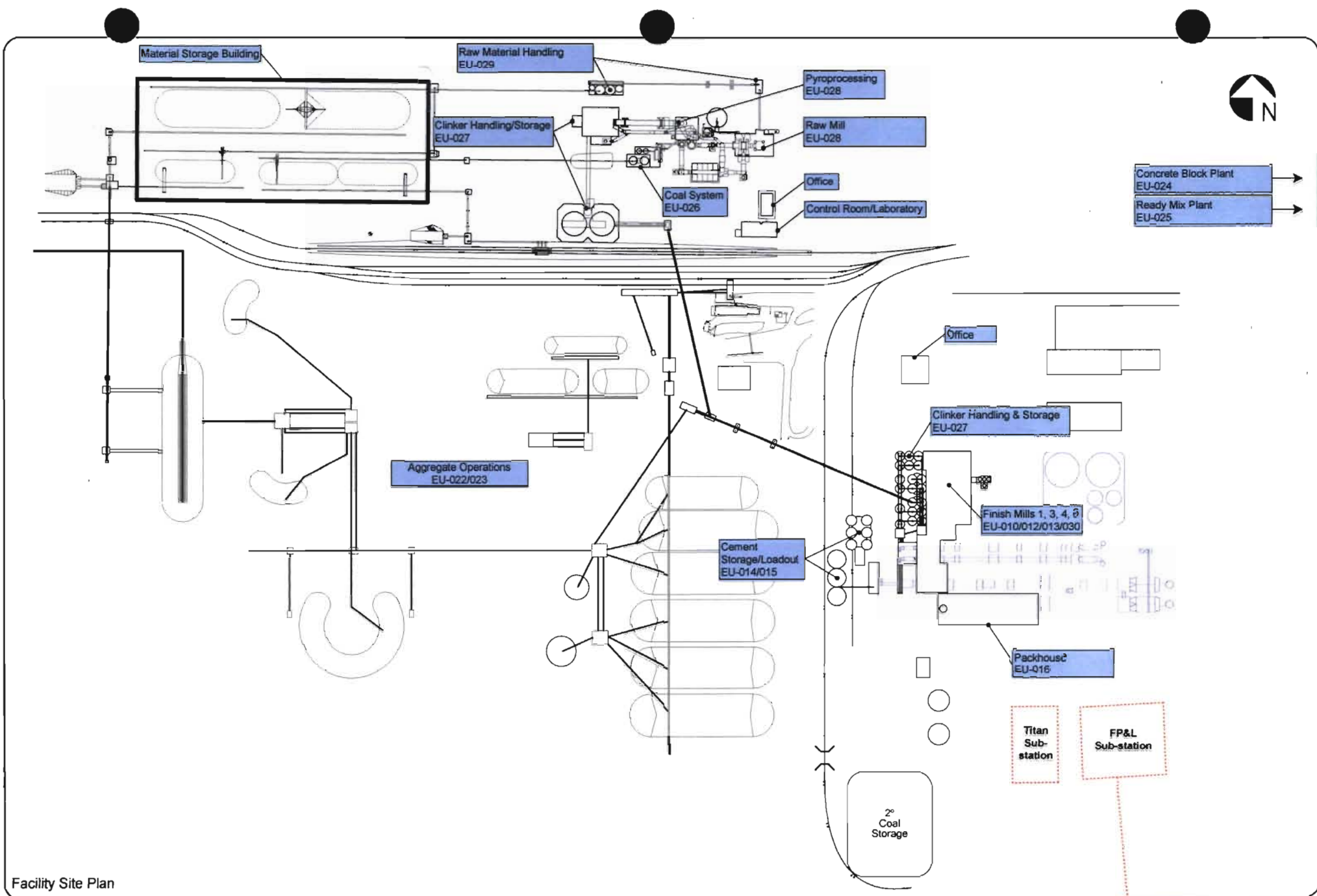
- | |
|--|
| 1. List of Insignificant Activities (Required for initial/renewal applications only):
<input checked="" type="checkbox"/> Attached, Document ID: TM-FI-CV1 <input type="checkbox"/> Not Applicable (revision application) |
| 2. Identification of Applicable Requirements (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought):
<input checked="" type="checkbox"/> Attached, Document ID: TM-FI-CV2
<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 checked="" type="checkbox"/> Attached, Document ID: TM-FI-CV3
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 On site but Not Required to be Individually Listed
<input checked="" type="checkbox"/> Not Applicable |
| 5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only) :
<input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |
| 6. Requested Changes to Current Title V Air Operation Permit:
<input type="checkbox"/> Attached, Document ID: See Comment <input type="checkbox"/> Not Applicable |

Additional Requirements Comment

Requested Changes to the Title V Permit will be provided in the near future.

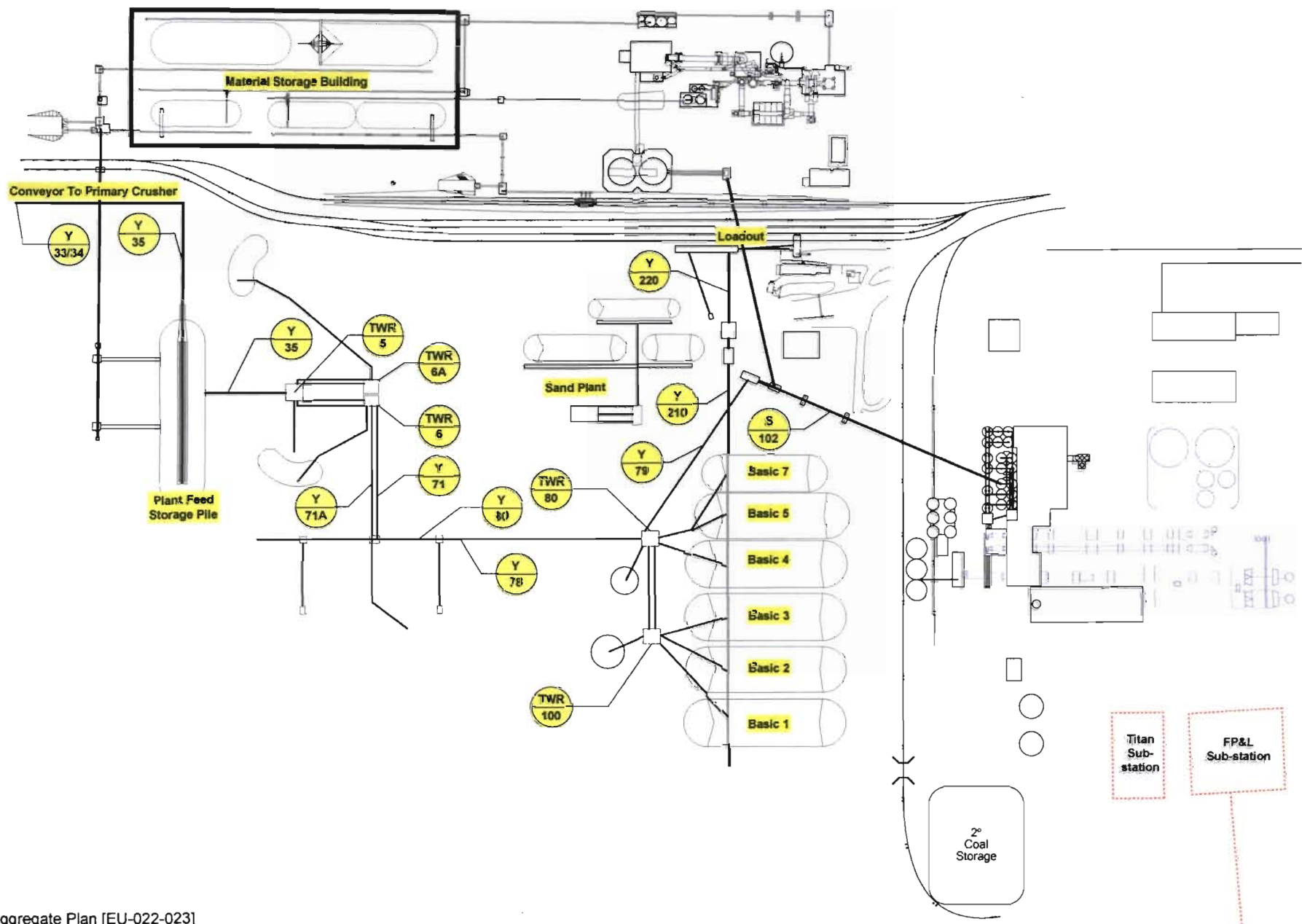
ATTACHMENT TM-FI-C1

FACILITY PLOT PLAN



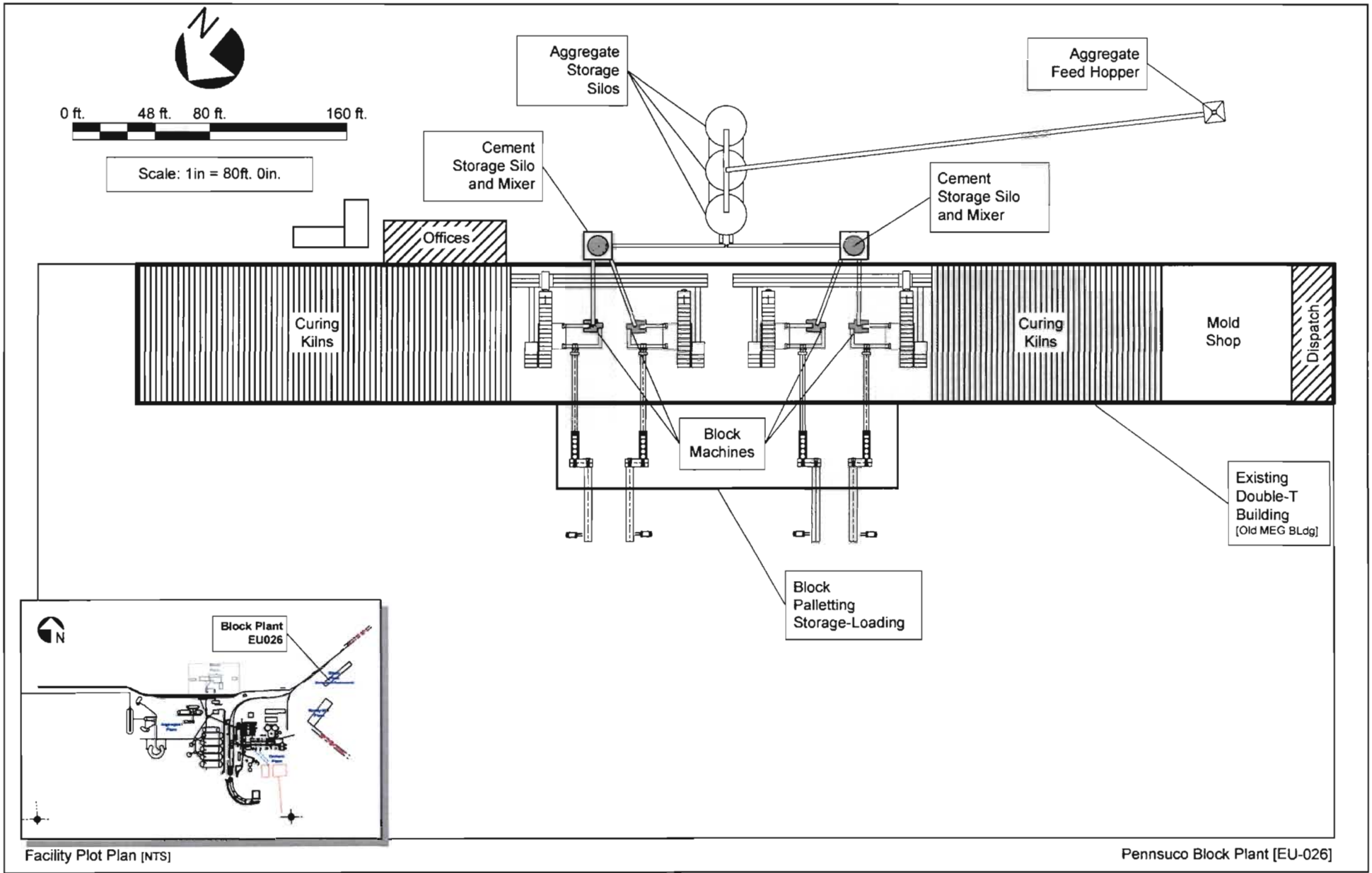
Facility Site Plan

DESCRIPTION Attachment TM-FI-C1a FACILITY PLOT PLAN	TITLE: PENNSUCO CEMENT	
	FILENAME: NEW PLOT PLANS.VSD/TM-FI-C1a	
	LAST REVISION DATE: 4/27/2005	



Aggregate Plan [EU-022-023]

DESCRIPTION Attachment TM-FI-C1b Plot Plan - Aggregate Plant	TITLE: PENNSUCO CEMENT	
	FILENAME: NEW PLOT PLANS.VSD/TM-FI-C1b	
	LAST REVISION DATE: 4/27/2005	



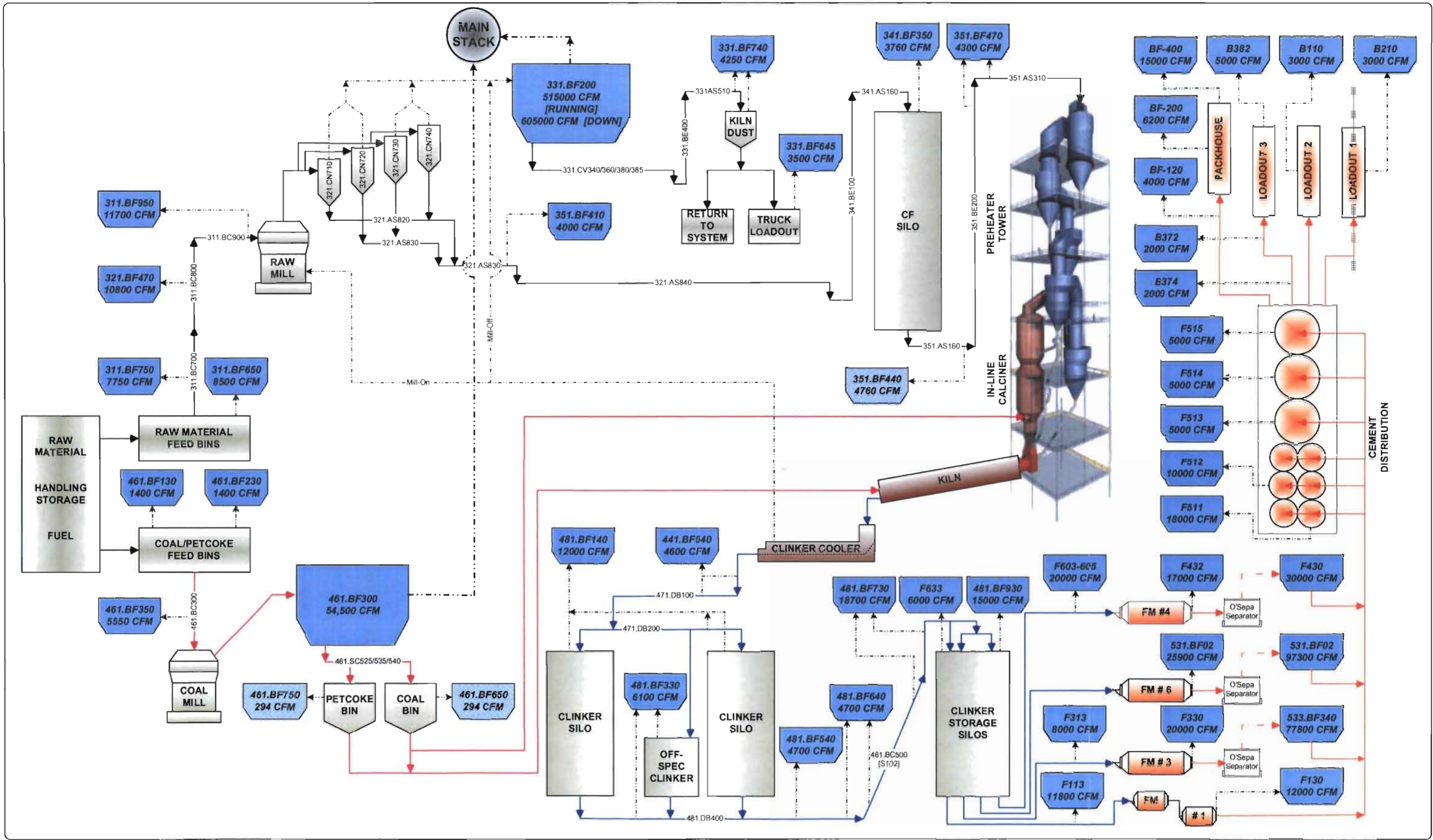
Facility Plot Plan [NTS]

Pennsuco Block Plant [EU-026]

<p>DESCRIPTION</p> <p>ATTACHMENT TM-FI-C1c CONCRETE BLOCK PLANT SITE PLAN</p>	<p>TITLE: PENNSUCO BLK - RELOCATION/REPLACEMENT</p>	
	<p>FILENAME: 0537552/4/4.4/TM-FI-C1c.vsd</p>	
	<p>LAST REVISION DATE: 4/27/05</p>	

ATTACHMENT TM-FI-C2

PROCESS FLOW DIAGRAM



DESCRIPTION

PROCESS FLOW DIAGRAM

TITLE: PENNSUCO CEMENT

FILENAME: FL007-CEM-PK5 FLOWDIAGRAM.VSD

LAST REVISION DATE: 4/15/2005

GAS FLOW - - - - -



ATTACHMENT TM-FI-C3

**PRECAUTIONS TO PREVENT EMISSIONS OF
UNCONFINED PARTICULATE MATTER**

ATTACHMENT TM-FI-C3
PRECAUTIONS TO PREVENT EMISSIONS
OF UNCONFINED PARTICULATE MATTER

The owner or operators shall not cause, let, permit, suffer, or allow the emissions of unconfined particulate matter (PM) from any source whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing, or handling, without taking reasonable precautions to prevent such emissions.

Titan will employ reasonable precautions to control emissions of unconfined PM. These reasonable precautions may include, but are not limited to, the following:

1. Paving and maintenance of roads, parking areas, and yards;
2. Applying water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing;
3. Applying asphalt, water, oil, chemicals, or other dust suppressants to unpaved roads, yards, open stockpiles, and similar activities;
4. Removing PM from roads and other paved areas under the control of the owner or operator of the facility to prevent re-entrainment, and from buildings or work areas to prevent particulate from becoming airborne;
5. Confining abrasive blasting where possible;
6. Landscaping and planting of vegetation;
7. Using hoods, fans, filters, and similar equipment to contain, capture, and/or vent PM;
8. Enclosing or covering of conveyor systems;
9. Storing all materials, coal, and petroleum coke at the plant under roof on compacted clay or concrete or in enclosed vessels;
10. Locating water supply lines, hoses, and sprinklers near all unenclosed materials to prevent unconfined PM emissions; and
11. Installing tire wash for bulk transport trucks leaving the plant, to remove PM from vehicle tires before traveling on the facility's access roadways.

ATTACHMENT TM-FI-CV1

LIST OF INSIGNIFICANT ACTIVITIES

ATTACHMENT TM-FI-CV1**LIST OF INSIGNIFICANT EMISSION UNITS AND/OR ACTIVITIES**

There are no emission units and/or activities at the Titan Pennsuco Portland cement manufacturing facility that are considered insignificant pursuant to Rule 62-213.430(6), F.A.C.

ATTACHMENT TM-FI-CV2

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT TM-FI-CV2**IDENTIFICATION OF APPLICABLE REQUIREMENTS**

62-210.700(1) Excess Emissions

62-210.700(4) Excess Emissions

62-210.700(5) Excess Emissions

62-210.700(6) Excess Emissions

62-296.320(4) General Visible Emissions Std.

62-296.320(4)(c) - Unconfined Emissions

Dade County – Sec. 24-17

40 CFR 63.1353(a) – NESHAPs Subpart LLL- Notifications

40 CFR 63.1353(b) – NESHAPs Subpart LLL- Notifications

40 CFR 63.1354 – NESHAPs Subpart LLL - Reporting

40 CFR 63.1355 – NESHAPs Subpart LLL - Recordkeeping

40 CFR 63 – NESHAPs Subpart A – General Provisions

ATTACHMENT TM-FI-CV3

COMPLIANCE REPORT AND PLAN

ATTACHMENT TM-FI-CV3
COMPLIANCE REPORT AND PLAN

Titan America, LLC, certifies that the Pennsuco Portland cement manufacturing plant in Medley, Florida, as of the date of this application, is in compliance with each applicable requirement addressed in this Title V air permit application.

I, the undersigned, am the responsible official as designed in Chapter 62-213, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete.

Compliance statements for this facility will be submitted on an annual basis to FDEP, before March 1st of each year.

Signature, Responsible Official

Date

EMISSION UNIT 1

COAL HANDLING SYSTEM

EMISSIONS UNIT INFORMATION

Section [1]
Coal Handling System

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]
Coal Handling System**

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.)
<input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
<input type="checkbox"/> 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)				
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).				
<input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.				
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.				
2. Description of Emissions Unit Addressed in this Section: Coal Handling System				
3. Emissions Unit Identification Number: 026				
4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9. Package Unit: Manufacturer:		Model Number:		
10. Generator Nameplate Rating:		MW		
11. Emissions Unit Comment: Emissions unit consists of Coal Handling System for the Pyroprocessing Operation, including coal/petcoke feed bins, coal mill, and storage bins.				

EMISSIONS UNIT INFORMATION

**Section [1]
Coal Handling System**

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Baghouses (6)

Process Enclosure

2. Control Device or Method Code(s): **018, 054**

EMISSIONS UNIT INFORMATION

Section [1]
Coal Handling System

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 263,000
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: Maximum process rate reflects coal/petroleum coke throughput.

EMISSIONS UNIT INFORMATION

Section **[1]**
 Coal Handling System

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: EU 026		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: See Attachment TM-EU1-C15.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 420 feet	7. Exit Diameter: 14 feet	
8. Exit Temperature: 176 °F	9. Actual Volumetric Flow Rate: 54,500 acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: 45,245 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: Refer to Attachment TM-EU1-C15 for point specific data. Data above reflect coal mill exit gas emitted through main stack.			

EMISSIONS UNIT INFORMATION

Section [1]
Coal Handling System

D. SEGMENT (PROCESS/FUEL) INFORMATION**Segment Description and Rate: Segment 1 of 2**

1. Segment Description (Process/Fuel Type): Mineral Products; Bulk Material Stockpiles: Coal.		
2. Source Classification Code (SCC): 3-05-103-03		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 30	5. Maximum Annual Rate: 263,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Maximum permitted 24-hour block average usage rate is 30 TPH. These rates are total for coal and petroleum coke. Maximum petroleum coke usage is 20 TPH, 24-hour block average.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Mineral Products; Bulk Material Conveyors; Coal.		
2. Source Classification Code (SCC): 3-05-101-03		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 30	5. Maximum Annual Rate: 263,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Maximum permitted 24-hour block average usage rate is 30 TPH. These rates are total for coal and petroleum coke. Maximum petroleum coke usage is 20 TPH, 24-hour block average.		

EMISSIONS UNIT INFORMATION

Section [1]
Coal Handling System

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	018		EL
PM ₁₀	018		EL

EMISSIONS UNIT INFORMATION

Section [1]
Coal Handling System

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter Total - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: 7.51 lb/hour 10.2 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: See note below Reference:	7. Emissions Method Code: 2
8. Calculation of Emissions: Includes 0.71 lb/hr and 3.1 TPY from the baghouses, and 6.80 lb/hr and 7.1 TPY from fugitive PM emissions. See Attachment TM-EU1-F1.8 for hourly and annual emission calculations.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [1]
Coal Handling System

Page [1] of [2]
Particulate Matter Total - PM

**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 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.0095 or 0.01 gr/dscf	4. Equivalent Allowable Emissions: 0.71 lb/hour 3.10 tons/year
5. Method of Compliance: EPA Method 9 Test.	
6. Allowable Emissions Comment (Description of Operating Method): Applies to baghouses only. See Attachment TM-EU1-F1.8a for calculation of potential emissions. Note that Coal Mill emissions are included in allowable for Main Stack emissions.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 3.59 P^{0.62}	4. Equivalent Allowable Emissions: 29.6 lb/hour 116.7 tons/year
5. Method of Compliance: EPA Method 9 Test.	
6. Allowable Emissions Comment (Description of Operating Method): Applies to Coal Mill only. Calculated based on maximum 24-hour block average usage rates of 30 TPH and 263,000 TPY. However, emissions from the coal mill are controlled using a baghouse to 0.01 gr/dscf.	

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

POLLUTANT DETAIL INFORMATION

Section [1]
Coal Handling System

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

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: 3.1 lb/hour 5.6 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: See note below Reference:	7. Emissions Method Code: 2
8. Calculation of Emissions: Includes 0.71 lb/hr and 3.1 TPY from the baghouses, and 2.39 lb/hr and 2.5 TPY from fugitive PM emissions. See Attachment TM-EU1-F1.8 for hourly and annual emission calculations.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [1]
Coal Handling System

POLLUTANT DETAIL INFORMATION

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

**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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.0095 or 0.01 gr/dscf	4. Equivalent Allowable Emissions: 0.71 lb/hour 3.1 tons/year
5. Method of Compliance: EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Applicable to baghouses only. See Attachment TM-EU1-F1.8a for calculation of potential emissions. Note that Coal Mill emissions are included in allowable for Main Stack emissions.	

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]

Coal Handling System

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 3

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Applies to all baghouses. Coal Mill baghouse subject to 40 Part 60, Subpart Y.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 3

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Permit No. 0250020-016-AC and Rule 40 CFR 63.1348. Applies to Coal Mill baghouse only (461.BF300).	

EMISSIONS UNIT INFORMATION

Section [1]
Coal Handling System

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 3 of 3

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Permit No. 0250020-016-AC. Applies to all baghouses except Coal Mill baghouse (461.BF300). Based on Rule 62-297.620(4) in lieu of stack testing.	

Visible Emissions Limitation: Visible Emissions Limitation ____ of ____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [1]
Coal Handling System

H. CONTINUOUS MONITOR INFORMATION

Complete 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]
Coal Handling System**

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) <input checked="" type="checkbox"/> Attached, Document ID: TM-EU1-11 <input type="checkbox"/> Previously Submitted, Date _____</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) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</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) <input checked="" type="checkbox"/> Attached, Document ID: TM-EU1-13 <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input 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) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable</p>
<p>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.</p>
<p>7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [1]

Coal Handling System

Additional Requirements for Air Construction Permit Applications

- | |
|--|
| 1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))
<input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable |
| 2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.)
<input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable |

Additional Requirements for Title V Air Operation Permit Applications

- | |
|---|
| 1. Identification of Applicable Requirements
<input checked="" type="checkbox"/> Attached, Document ID: TM-EU1-IV1 <input type="checkbox"/> Not Applicable |
| 2. Compliance Assurance Monitoring
<input checked="" type="checkbox"/> Attached, Document ID: CAM Plan <input type="checkbox"/> Not Applicable |
| 3. Alternative Methods of Operation
<input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |
| 4. Alternative Modes of Operation (Emissions Trading)
<input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |
| 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 checked="" type="checkbox"/> Not Applicable |

EMISSIONS UNIT INFORMATION

Section [1] /
Coal Handling System

Additional Requirements Comment

--

ATTACHMENT TM-EU1-C15

EMISSION POINT COMMENT

Attachment TM-EU1-C15. Summary of Stack Parameter Data for the Coal Handling System (EU 026)

Emission Unit	Baghouse ID No.	Stack Height (ft)	Stack Diameter (ft)	Exhaust Flow Rate (acfm)	Exhaust Temperature (°F)
Coal/pet coke feed bin	461.BF130	126	0.75 x 0.83	1,400	92
Coal/pet coke feed bin	461.BF230	126	0.75 x 0.84	1,400	92
Coal mill	461.BF300	420	14	54,500 ^a	176
Coal mill feed	461.BF350	75	1.00 x 1.25	5,500	92
Coal bin	461.BF650	67	0.42	294	178
Pet Coke bin	461.BF750	67	0.42	294	178

^a The coal mill vents through the plant main stack. Flow rate represents coal mill exhaust gas only.

ATTACHMENT TM-EU1-F1.8

EMISSION CALCULATIONS

Attachment TM-EU1-F1.8a. Coal Handling System (EU ID No. 026) Potential Emission Rates: **2,190,000 TPY Clinker**

Emission Unit	Equipment ID No.	New or Existing	Operating Hours (hr/yr)	Exhaust Flow Rate		Temperature (°F)	Potential PM/PM ₁₀ Emission Rate ^a			
				acfm	dscfm		gr/dscf	lb/hr	TPY	
Coal/pet coke feed bin	461.BF130	New	8,760	1,400	1,339	92	0.0095	0.11	0.48	
Coal/pet coke feed bin	461.BF230	New	8,760	1,400	1,339	92	0.0095	0.11	0.48	
Coal mill feed	461.BF350	New	8,760	5,500	5,261	92	0.01	0.45	1.98	
Coal mill	461.BF300	New	8,760	54,500	45,245	176	0.01	N/A ^b	N/A ^b	
Coal bin	461.BF650	New	8,760	294	243	178	0.0095	0.02	0.09	
Pet coke bin	461.BF750	New	8,760	294	243	178	0.0095	0.02	0.09	
Revised Potential Emission Rates =								0.71	3.10	

^a PM₁₀ emission rate calculated as 100 percent of PM emission rate.

^b The emission limit for the Main Stack (see Tables 2-5 and 2-6 for emissions from the Raw Mill and Pyroprocessing) of 0.090 lb/ton of dry clinker product includes emissions from the Coal Mill, which are also vented through the Main Stack.

Attachment TM-EUI-F1.8b. Estimated Future Fugitive Dust Emissions from Drop Type Operations, Titan America, Pennsco.

SOURCE	Type of Type of Operation ^a	M	U	Emission Factor	Activity Factor	Maximum Annual PM Emissions (tons/yr)	PM ₁₀ Size Multiplier ^d	Maximum Annual PM ₁₀ Emissions (tons/yr)	
		Moisture Content (%)	Wind Speed ^b (MPH)						
COAL HANDLING FACILITIES									
Railcar Unloading for Temporary Storage	Batch Drop	7.2	8.8	0.00111 lbs/ton	87,000 TPY ^c	0.048	0.35	0.017	
Temporary Coal Pile to Railcar	Batch Drop	7.2	8.8	0.00111 lbs/ton	87,000 TPY ^c	0.048	0.35	0.017	
Railcar Unloading	Batch Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	0.012	0.35	0.004	
Conveyor to Conveyor Transfer	Continuous Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	0.012	0.35	0.004	
Conveyor to Conveyor Transfer	Continuous Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	0.012	0.35	0.004	
Conveyor to Stacker Transfer (inside building)	Continuous Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	0.012	0.35	0.004	
Stacker to Storage Pile (inside building)	Continuous Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	0.012	0.35	0.004	
Reclaimer to Conveyor Belt (inside building)	Continuous Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	<u>0.012</u>	0.35	<u>0.004</u>	
	Subtotal					0.170		0.059	
RAW MATERIALS BLENDING AREA									
ADDITIVES:									
Raw Material Unloading	Batch Drop	2.0	8.8	0.00667 lbs/ton	266,700 TPY	0.890	0.35	0.311	
Choke Feed Hopper/Conveyor	Continuous Drop	2.0	1.3	0.00056 lbs/ton	266,700 TPY	0.074	0.35	0.026	
Conveyor to Conveyor Transfer	Continuous Drop	2.0	1.3	0.00056 lbs/ton	266,700 TPY	0.074	0.35	0.026	
Conveyor to Stacker Transfer (inside building)	Continuous Drop	2.0	1.3	0.00056 lbs/ton	266,700 TPY	0.074	0.35	0.026	
Stacker to Storage Pile (inside building)	Continuous Drop	2.0	1.3	0.00056 lbs/ton	266,700 TPY	0.074	0.35	0.026	
Reclaimer to Conveyor Belt (inside building)	Continuous Drop	2.0	1.3	0.00056 lbs/ton	266,700 TPY	0.074	0.35	0.026	
LIMESTONE:									
Aggregate Plant Conveyor to Storage Pile (inside building)	Continuous Drop	7.0	1.3	0.00010 lbs/ton	3,716,452 TPY ^f	0.179	0.35	0.063	
Reclaimer to Conveyor Belt (inside building)	Continuous Drop	7.0	1.3	0.00010 lbs/ton	3,716,452 TPY ^f	<u>0.179</u>	0.35	<u>0.063</u>	
	Subtotal					1.62		0.57	
Total						1.79		0.63	

^a Batch Drop and Continuous Emission Factors are computed from AP-42 (US EPA, 1995) Section 13.2.4-3(1). $E = 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$ lb/ton

^b Based on the average wind speed measured at Miami International Airport of 8.8 mph unless the transfer point is enclosed in which case the minimum windspeed for which the equation maintains an "A" Quality Rating, 1.3 mph, was used.

^c Based on future maximum coal throughput.

^d PM₁₀ Size Multiplier is based on particles < 10 micrometers.

^e One-third of total coal throughput could go to temporary storage pile before being placed in storage building.

^f Based on 3,723,000 TPY total dry kiln feed, minus additives (266,700 TPY), and adjusting for moisture content of kiln feed of 7%.

Attachment TM-EU1-F1.8c. Estimation of Future Emissions For Vehicle Traffic for Temporary Outside Storage of Coal When the Coal Storage Building is Full
Titan America, Pennsuco Facility.

General Data	Travel from Railcar to Pile (Unloading of Railcar for Temporary Outdoor Storage)		Travel from Pile to Railcar (Reloading of Railcar for Normal Inside Storage)		Total
	Front End Loader (loaded)	Front End Loader (unloaded)	Front End Loader (loaded)	Front End Loader (unloaded)	
Vehicle Data					
Description	Coal	Coal	Coal	Coal	
Vehicle Speed (S), mph- Average	10	10	10	10	
Vehicle weight (W), tons:					
Loaded	55.5	--	55.5	--	
Unloaded	--	47.5	--	47.5	
Vehicle number of wheels (w)	4	4	4	4	
Vehicle miles traveled (VMT)- Annual ^a	716	716	895	895	
General/ Site Characteristics					
Days of precipitation > or = 0.01 inch (p) Annually	120	120	120	120	
Silt content (s), % ^b	12	12	12	12	
Particle size multiplier, PM (k)	1.00	1.00	1.00	1.00	
Particle size multiplier, PM10 (k)	0.35	0.35	0.35	0.35	
Emission Control Data					
Emission control method	--	--	--	--	
Emission control removal efficiency, %	0	0	0	0	
Calculated PM Emission Factor (EF)					
Uncontrolled EF, lb/VMT - Annual	10.18	9.13	10.18	9.13	19.30
Controlled (Final) EF, lb/VMT- Annual	10.18	9.13	10.18	9.13	19.30
Calculated PM10 Emission Factor (EF)					
Uncontrolled EF, lb/VMT - Annual	3.56	3.19	3.56	3.19	6.76
Controlled (Final) EF, lb/VMT- Annual	3.56	3.19	3.56	3.19	6.76
Estimated Emission Rate (ER)					
Particulate Matter (PM) Emission Rate					
lbs/hr ^c	3.50	3.14	4.38	3.93	6.64
TPY	3.64	3.27	4.55	4.08	6.91
Particulate Matter 10 (PM10) Emission Rate					
lbs/hr ^c	1.23	1.10	1.53	1.37	2.33
TPY	1.28	1.14	1.59	1.43	2.42

Emission Factor (EF) Equations

Uncontrolled EF (UEF) Equation:

$$UEF(\text{lb}/\text{VMT}) = k \times 5.9 \times (s/12) \times (S/30) \times (W/3)^{0.7} \times (w/4)^{0.5} \times ((365 - p)/365)$$

Controlled (Final) EF (CEF) Equation:

$$CEF(\text{lb}/\text{VMT}) = UEF(\text{lb}/\text{ton}) \times (100 - \text{Removal efficiency}(\%))$$

Source: AP-42, Section 13.2.2, Unpaved Roads, January, 1995.

^a Annual VMT calculated as follows:

Railcar Unloading (Travel Between Railcar Unloading Area and Temporary Storage Pile)

Annual VMT = 263,000 TPY coal/8 tons (bucket capacity of front-end loader) x 1/3 (amount of coal handled this way) x 300 ft travel (railcar unloading area to pile) x 1 mile/5,280 feet x 1.15 (factor to account for pile maintenance activities) = 716 miles/year

Railcar Reloading (Travel Between Temporary Storage Pile and Railcar Loading Area)

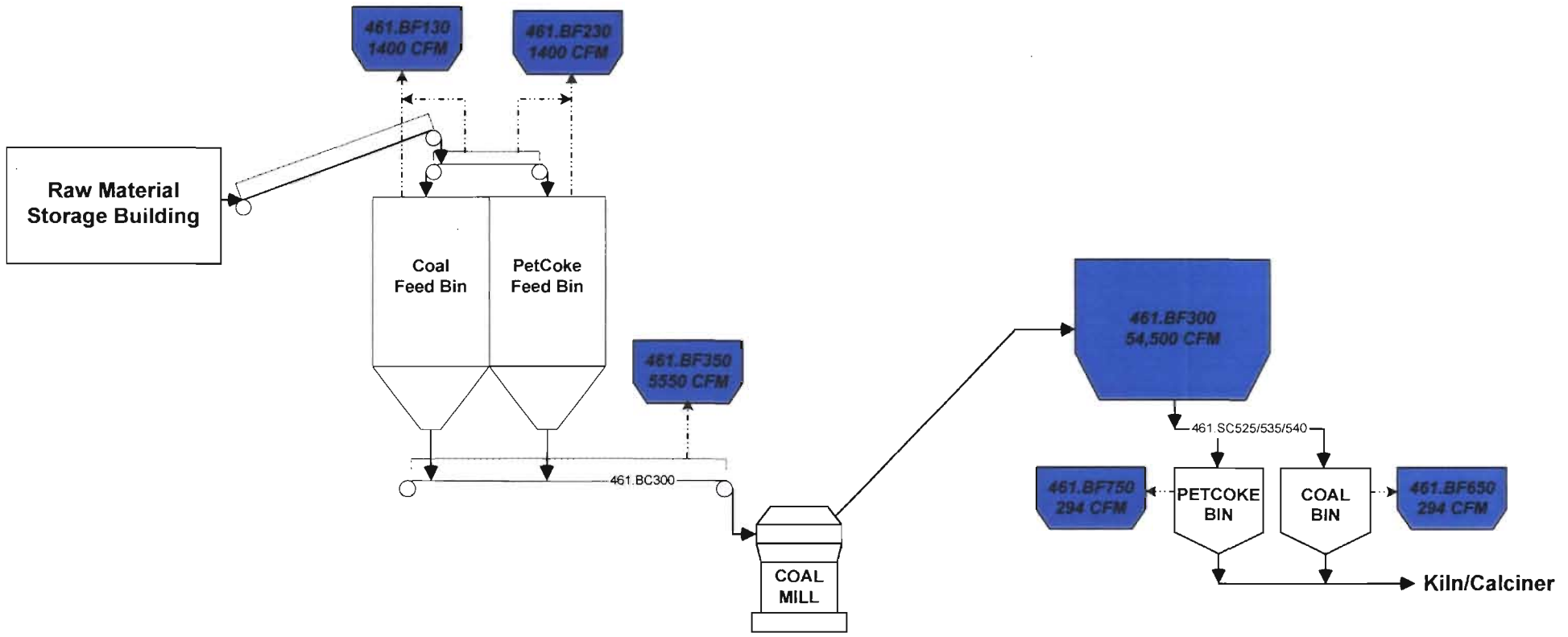
Annual VMT = 263,000 TPY coal/8 tons (bucket capacity of front-end loader) x 1/3 (amount of coal handled this way) x 375 ft travel (pile to railcar loading area) x 1 mile/5,280 feet x 1.15 (factor to account for pile maintenance activities) = 895 miles/year

^b Tarmac Information.


^c Assumes 2,080 hr/yr operation.

ATTACHMENT TM-EU1-I1

PROCESS FLOW DIAGRAM



Coal Handling System [EU-026]

DESCRIPTION Attachment TM-EU1-I1 Process Flow Diagram	TITLE: PENNSUCO CEMENT	
	FILENAME: NEW PLOT PLANS.VSD/TM-EU1-I1	
	LAST REVISION DATE: 4/27/2005	

ATTACHMENT TM-EU1-I3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

Attachment TM-EU1-I3. Control Equipment Information for Coal Handling System

Source ID	Baghouse			Flow Rate		Cloth Area (ft ²)	Air to Cloth Ratio
	ID No.	Manufacturer	Model No.	acfm	dscfm		
Dump Hopper (Transfer)	461.BF130	FLS Airtech	36TAX10FM	1,400	1,339	469	3.0:1
Conveyors (2) (Transfer) & Coal and Petroleum Coke Feed Bins	461.BF230	FLS Airtech	36TAX10FM	1,400	1,339	469	3.0:1
Coal Mill Feed	461.BF350	FLS Airtech	121CX10	5,500	5,261	1,575	3.5:1
Coal Mill	461.BF300	FLS Airtech	73SSX12	54,500	45,245	--	--
Coal (Transfer) Surge Bin (Feeder)	461.BF650	FLS Airtech	800/7	294	243	75	3.9:1
Coke/Petroleum Coke (Transfer) Surge Bin (Feeder)	461.BF750	FLS Airtech	800/7	294	243	75	3.9:1

ATTACHMENT TM-EU1-IV1

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT TM-EU1-IV1

**LIST OF APPLICABLE REGULATIONS
FOR THE COAL HANDLING SYSTEM**

- 40 CFR 60.11(b) – General NSPS Requirements
- 40 CFR 60.11(c) – General NSPS Requirements
- 40 CFR 60.11(d) – General NSPS Requirements
- 40 CFR 60.12 – General NSPS Requirements
- 40 CFR 60.19 – General NSPS Requirements
- 40 CFR 252(c) – Subpart Y
- 40 CFR 60.254(a)
- 40 CFR 60.254(b)(2)
- 40 CFR 60.7 – General NSPS Requirements
- 40 CFR 60.8 – General NSPS Requirements
- 62-296.320(4)(a) – Process Weight Table

PERMITTEE:

Titan America
455 Fairway Drive
Deerfield Beach, Florida 33441

Permit No.	0250020-016-AC
Project:	Modify Modernization Project
SIC:	3241 Cement, Hydraulic
Expires:	October 31, 2005

Authorized Representative:

Hardy Johnson, President
Florida Division, Tarmac America

PROJECT AND LOCATION:

Re-issuance and modification of Air Construction Permit 0250020-010-AC issued on May 1, 2001 for modernization of the Titan America Pennsuco Cement Plant. This air construction permit reflects the final configuration and operating parameters of baghouses, finish mills and the coal mill.

The Titan America Pennsuco Cement Plant is located at 11000 NW 121 Way, Medley, Dade County. UTM coordinates are Zone 17; 562.8 km E; 2861.7 km N.

STATEMENT OF BASIS:

This air construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The above named permittee is authorized to construct/operate the facility in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

Attached appendices made a part of this permit:

Appendix GC Construction Permit General Conditions

Michael G. Cooke, Director
Division of Air Resource
Management

SECTION I. GENERAL INFORMATION

FACILITY DESCRIPTION

This facility consists of a dry process portland cement manufacturing plant which includes a coal handling system; raw feed system; kilns; coolers; finish mills; clinker and cement storage and handling systems; and a cement distribution system. The facility also consists of a non-metallic mineral processing plant, and ready-mix concrete block and batch plants, located adjacent to the portland cement manufacturing plant.

EMISSIONS UNITS

This permit addresses the following emissions units. Emission Units shown as stricken-through are no longer permitted to operate.

EMISSION UNIT NO.		EMISSION UNIT DESCRIPTION
Permit 0250020-016-AC	Permit 0250020-010-AC	
003	-	Coal Handling
004	-	Kiln No. 2
005	-	Cooler No. 2
006	-	Kiln No. 3
007	-	Cooler No. 3
008	-	Clinker Handling and Storage for Kiln No. 2
009	-	Clinker Handling and Storage for Kiln No. 3
010	-	Finish Mill No. 1
011	-	Finish Mill No. 2
012	003	Finish Mill No. 3
013	003	Finish Mill No. 4
014	004	Cement Storage Silos 1 through 12
015	004	Cement Distribution, Rail and Truck Loadout
016	004	Cement Packhouse
020	-	Slag Dryer
021	-	Inflation
026	001	Coal Handling System
027	002	Clinker Handling and Storage
028	005	Raw Mill and Pyroprocessing System
029	006	Raw Material Handling
030	003	Finish Mill No. 6

REGULATORY CLASSIFICATION

Because potential emissions of at least one regulated pollutant exceed 100 tons per year, the existing facility is a Title V Source and major source of air pollution in accordance with Chapter 62-213, F.A.C. Regulated pollutants include pollutants such as nitrogen oxides (NO_x), particulate matter (PM/PM₁₀), and sulfur dioxide (SO₂).

In addition, this facility is a major source of hazardous air pollutants (HAPs), based upon potential emissions of hydrogen chlorides.

RELEVANT DOCUMENTS

The construction permit application 0250020-016-AC was received March 4, 2004. The last round of additional application information was received on February 8, 2005.

SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

This permit supersedes construction permit 0250020-010-AC, dated May 1, 2001. The specific conditions of the attached air construction permit 0250020-010-AC are incorporated into this air construction permit except for the changes indicated in each of the sections that follow.

Section II, Facility-Wide Specific Conditions A.1 through A.33 in Permit 0250020-010-AC dated May 1, 2001 are adopted in their entirety except for the amendments shown below:

1. Permitting Authority:

For this permit, the permitting authority is the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection (FDEP), at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and phone number (850)488-0114.

2. Completion of Construction: The permit expiration date is October 31, 2005.

3. Application for Title V Permit Revision: The Applicant's Title V Renewal application due April 25, 2005 shall include all operations described in this air construction permit.

4. Permanent Shut Down of Certain Equipment: The following equipment has been permanently shut down or was never built, or never operated. It shall remain permanently shut down as a condition of the operation of the plant modernization and operation of Kiln No. 5 and associated equipment.

- Kilns 1, 2, 3, and 4
- Coolers 1, 2, 3, and 4
- Finish Mills 2 and 5
- Clinker Handling and Storage for Kilns 2 and 3
- All slag dryer
- Insufflation of cement kiln dust

[Applicant Request - Section 62-212.400, F.A.C. To Avoid Exceeding Significant Emissions Rates]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Section III, Emission Units Specific Conditions B.0 through B.33 in Permit 0250020-010-AC dated May 1, 2001 are adopted in their entirety and modified as shown below. Additions are highlighted, and deletions are shown by strikethroughs.

B.0. ~~Operational Requirements, Emissions Limitations and Performance Standards Attachments~~
"40CFR63, Subpart A" is incorporated by reference. ~~These emissions unit shall comply with the 40 CFR 63, Subpart LLL - National Emissions Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry for Major Sources of HAPs, and 40 CFR 63, Subpart A - General Provisions for Subpart LLL - Portland Cement Plants.~~

EMISSIONS UNIT NO. 026001 - COAL HANDLING SYSTEM

Operational Requirements

B.1 ~~Hours of Operation: These process~~ ~~This emissions units~~ may not operate in excess of 7,884 hours per year except ~~the railcar fuel dump hopper, coal and petcoke feed bins and transfer equipment and baghouses 2461.BF01.30 and 2461.BF02.30~~ which may not exceed 4,000 hours per year. ~~The coal mill may be operated for 400 of its allowed 7,884 hours per year when the Kiln/Cooler/Raw Mill is not operating.~~

~~[Requested by permittee in application received November 14, 2000 Applicant request Permit 0250020-010-AC]~~

B.2 ~~Coal/Petroleum Coke Maximum Usage: The maximum combined usage of coal and petroleum coke is 30 TPH on a 24-hour block average and 190,000 TPY. The maximum petroleum coke usage rate shall not exceed 20 TPH on a 24-hour block average. Daily records of usage must be kept on site and retained for a minimum of 5 years.~~

~~[Rule 62-210.200 & 62-4.070(3) F.A.C. established by permittee in application received November 14, 2000 Applicant request Permit 0250020-010-AC Rule 62-4.070(3) F.A.C.]~~

B.3 ~~Particulate and Fugitive Emissions: Particulate and fugitive emissions from coal handling facilities shall be minimized by following the procedures listed below:~~

- ~~(1) All conveyers and transfer points shall be enclosed or covered to preclude particulate emissions (except those directly associated with coal stacking/reclaiming).~~
- ~~(2) Coal storage piles shall be shaped, compacted and oriented to minimize wind erosion.~~
- ~~(3) Water sprays or chemical wetting agents and stabilizers shall be applied to storage piles, handling equipment, etc., during dry periods as necessary to all facilities to maintain an opacity of less than 20 percent at the property line for fugitive emission sources.~~

~~[Rule 62-296.320(4)(c), F.A.C.; 62-4.070(3) Permit 0250020-010-AC]~~

Emissions Limitations and Performance Standards

B.4 ~~Design Specifications and Particulate Matter Emissions Limits:~~

- ~~1. The baghouses for the coal handling system have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits listed in the following table:~~

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Coal Handling System Process Unit	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/dscf)	Flow Rate acfm (dscfm)	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM Emissions Limits	
							(lb/hr)	(TPY)
Dump Hopper (Transfer)	2461-BF13001 FLS Airtech 36TAX10FM	0.0095 0.01	14002,700 (1339)2,700	Pending 469	Pending 3.0:1	0.39	0.1123	0.2246
Conveyors (2) (Transfer) & Coal and Petroleum Coke Feed Bins	2461-BF13002 FLS Airtech 36TAX10FM	0.0095 0.01	14006,400 (1339)6,400	Pending 469	Pending 3.0:1	0.92	0.1155	0.221-1.10
Coal Mill *	461-BF30004 Pending Pending	0.01	54,500 (45,245) 43,600	Pending	Pending	12.37	3.8874	0.78 (4.73)
Coke/Petroleum Coke (Transfer) Surge Bin (Feeder)	461-BF50002 FLS Airtech 800/7	0.0095 0.01	294800 (243)665	75 Pending	3.9:1 Pending	0.19	0.026	0.0822
Coal (Transfer) Surge Bin (Feeder)	461-BF50003 FLS Airtech 800/7	0.0095 0.01	294800 (243)665	75 Pending	3.9:1 Pending	0.19	0.026	0.0822
Coal Mill Feeder	461-BF350	0.01	5,500 (5,261)	1575 Pending	3.5:1 Pending		0.45	1.78
Total						14.06	4.59 4.64	16.15 16.73

The emission limit of 0.125 lb/ton of dry clinker for the Main Stack for the Raw Mill and Pyroprocessing includes emission from the Coal Mill which are also vented to the atmosphere through the Main Stack. So that Tarmac may operate the coal mill when the Raw Mill and Pyroprocessing are down, 400 hours of emissions (1.78 TPY) from the Coal Mill operating alone are included here. The emissions associated with the additional 7484 hours of operation for the coal mill are included with the potential emissions for the Main Stack.

- Notes:**
- b.** All of the above process units equipment, except for the dump hopper with baghouse 2461-BF13001, are subject to 40 CFR 60, Subpart Y, NSPS for Coal Preparation Plants.
 - c.** The pending information listed in this table will be submitted to the DERM Air Facilities Section within 30 days of issuance of this final permit at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.
 - Emissions of Particulate Matter from each of the baghouses on the coal handling system shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf). Assume PM-10 = 84% of PM for all baghouses. [Requested by Permittee in application received November 14, 2000.]
 - d.** Initial and annual compliance testing requirements for PM emissions from all emissions points listed above, except 461-BF30004 serving the Coal Mill, are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5.

[Rule 62-297.620(4), F.A.C. Permit 0250020-010-AC Applicant request to Escape BACT]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.5 Coal Handling Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

	Baghouse Id. No.	Visible Emissions Limit	Rule Applicability
Dump Hopper (Transfer)	2461-BF13001	20% with PM testing 5% w/out PM testing	Rule 62-296.320(4)(b)1, F.A.C. Rule 62-297.620(4), F.A.C.
Conveyors (2) Coal & Petroleum Coke Feed Bins (shared with conveyors)	2461-BF23002	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.
Coal Mill Dust Collector*	461-BF3001	10% ^(*)	40 CFR 63.1345
Coke/Coal Surge Bins	461-BF75002	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.
	461-BF65003	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.
Coal Mill Feed	461-BF350	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.

Note: *This emissions unit discharges to the common (main) stack. The Clinker Cooler which is limited to 10% opacity, discharges to the common (main) stack and therefore determines the opacity limit for this emissions unit. [40 CFR 63.1345(a)(2)]

EMISSIONS UNIT NO. 027002 – CLINKER HANDLING & STORAGE SYSTEM

Operational Requirements

B.6 Hours of Operation: These process This emissions units may not operate in excess of the following:

Process Unit	Baghouse ID No.	Hours Per Year
Clinker Silos 21-23 & 26-28	F633	8,760
Clinker transfer conveyors from cooler	441.BF54001	7,884
Clinker Silos	481.BF14001	7,884
Clinker Transfer Conveyors	481.BF54002	8,760
Clinker Off-spec Bins	481-BF33003	8,760
Clinker transfer	481-BF640	8,760
Clinker transfer	481-BF730	8,760
Clinker transfer	481-BF930	8,760
Clinker transfer	K347	0
Clinker transfer	K447	0

Clinker transfer baghouses, K347 and K447 have been removed.
 [Requested by permittee in application received November 14, 2000 Applicant request; Permit 0250020-010-AC]

B.7 Clinker Handling & Storage Throughput Limits: The clinker handling and storage maximum hourly and annual throughput rates shall not exceed 320 TPH on a 24-hour block average or 1,942,500 TPY, respectively. [Applicant request; Permit 0250020-010-AC; Rules 62-4.070(3)]
 [Requested by permittee in application received November 14, 2000 Applicant request;]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Emissions Limitations and Performance Standards

B.8 Design Specifications and Particulate Matter Emissions Limits:

a. The baghouses for the clinker handling and storage system have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits shown in the following table:

System Process Units	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/dscf)	Flow Rate acfm (dscfm)	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM Emissions (lb/hr)	Potential PM Limits (TPY)
Clinker Silos 21, 23 & 26-28	E635	0.01 (gr/acf)	0.000				0.51	2.25
Clinker Transfer Conveyor Burner Building from cooler	441.BF54004 FLS Airtech 100C10	0.0095 0.01	1,600 (3,421) 3,000 2,494	1302 Pending	3.5:1 Pending	0.71	0.28	1.10 0.84
Clinker Silo	481.BF14001 FLS Airtech 196C10	0.0095 0.01	10,120 (8,924) 10,000 8,315	2552 Pending	4.7:1 Pending	2.36	0.78	2.86
Clinker Transfer Conveyors	481.BF54002 FLS Airtech 100C10	0.0095 0.01	1,700 (3,495) 3,000 2,494	1302 Pending	3.6:1 Pending	0.79	0.28	1.25 0.94
Clinker Off-spec Bins	481.BF33003 FLS Airtech 100C10	0.0095 0.01	6,100 (4,536) 6,000 4,157	1302 Pending	4.7:1 Pending	1.31	0.37	1.62 1.56
Clinker transfer	481.BF640	0.0095	1,700 (3,495)	1302	3.6:1		0.28	1.25
Clinker transfer	481.BF730	0.0095	18,700 (13,906)	3958	4.7:1		1.13	4.96
Clinker transfer	481.BF930	0.0095	15,000 (11,155)	3958	3.8:1		0.91	3.98
Total						5.17	1.50	19.26 6.15

Notes:

- b. All the above silos and bins equipment are subject to 40 CFR 63 Subpart LLL, NESHAPS for Portland Cement Manufacturing Industry.
- The pending information listed in this table will be submitted to the DERM Air Facilities Section at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.
- Grain loading of 0.01 gr/dscf proposed permit limits for all the above baghouses and assume PM10-10 = 84% of PM for all baghouses. [Requested by Permittee in application Received November 14, 2000]
- c. Initial and annual compliance testing requirements for PM emissions from all emissions points listed above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C.]

Permit 0250020-010-AC Applicant request to Escape BACT

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.9 Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

System Process Unit	Baghouse Id. No.	Visible Emissions Limit	Rule Applicability
Clinker Silos 21, 23, & 26-28	F633	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), F.A.C.
Clinker Transfer Conveyors Burner Building from cooler	441.BF54001	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker Silo	481.BF14001	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker Transfer Conveyors	481.BF54002	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker Off-spec Bins	481-BF33003	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker transfer	481.BF640	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), F.A.C.
Clinker transfer	481.BF730	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), F.A.C.
Clinker transfer	481.BF930	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), F.A.C.

[Permit 0250020-010-AC; Rule 62-4.070(3), F.A.C., 40 CFR 63.1348]

EMISSIONS UNITS NOS. 003, 010, 012, 013, 014 and 030 - FINISH MILLS

Operational Requirements

B.10 Hours of Operation: These emissions units may operate continuously, i.e., 8,760 hours per year. [Requested by permittee in application received November 14, 2000. Applicant request received February 8, 2005.]

B.11 Finish Mill Process Rates: The maximum total hourly process rate of cement is 334,359.0 TPH on a 24-hour block average. This is a total of the individual process rates listed below:

Finish Mill	Baghouses	Process Rate (TPH)
No. 1	F113/F130/F330	25
No. 3	533.BF340 F-313 / F-330 / F-332	84
No. 4	F-436 / F-432 / F-603 / F-604 / F-605	140
No. 6	531.BF01 / 531.BF02	110
Total		334,359

The owner or operator shall record all hourly process rates and maintain records for a minimum of 5 years.

[Applicant request received February 8, 2005; Permit 0250020-010-AC; Rules 62-4.070(3), and 62-213.440, F.A.C.] [Established by Permittee in application received November 14, 2000.]

Emissions Limitations and Performance Standards

B.12 Design Specifications and Particulate Matter Emissions Limits:

- The baghouses for the finish mills have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits shown in the following table:

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

System Emissions Unit	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/acf)	Flow Rate acfm dscfm	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM/PM ₁₀ Emissions Limits	
							(lb/hr)	(TPY)
Finish Mill No. 1	F-113 Mikropul 16FF-10-20	0.01	11,800	2,100	5.6		1.01	3.99
Finish Mill No. 1	F-130 Norblo 468 AMT	0.01	12,000	1,977	6.1		1.03	4.05
Finish Mill No. 3	F-330 Norblo 702 AMT	0.01	20,000	9,477	2.1	6.34	1.71	6.76 7.54
Finish Mill No. 3	F-332 Norblo 390 AMT	0.01	13,500	5,465	2.5	4.26	1.16	4.56 5.07
Finish Mill No. 3 O-Sepa Cement Separator	533.BF-40 F-313 Mikropul 196S-10-20	0.0095 gr/dscf 0.01	17,800 (65,307 dscfm) 8,000	2,300 Pending	3.5 Pending	2.52	5.32 0.69	20.96 3.00
Finish Mill No. 4 Belt conveyor/ Separator	F-432 Fuller 5 zone #48	0.01	17,000	2,510	6.8	5.36	1.46	5.74 6.38
Finish Mill No. 4 Clinker/Gypsum Conveyor	F-605 Mikropul 645-10-30	0.01	4,000	753	5.3	1.26	0.34	1.35 1.50
Finish Mill No. 4 Clinker/Gypsum Conveyor	F-603 Mikropul 121S-10-20	0.01	8,000	1,424	5.6	2.52	0.69	2.70 3.00
Finish Mill No. 4 Ball Mill/Mill Sweep	F-430 Fuller 6 zone #96	0.01	30,000	6,028	5.0	9.46	2.57	10.14 11.26
Finish Mill No. 4 Clinker/Gypsum Conveyor	F-604 Mikropul 121S-10-20	0.01	8,000	1,424	5.6	2.52	0.69	2.70 3.00
Finish Mill No. 6 Main	531.BF01 Pending Pending	0.0095 0.01 (gr/dscf)	97,300 (80,905 dscfm)	Pending	Pending	25.51	6.5993	25.97 30.37
Finish Mill No. 6 Sweep	531.BF02 Pending Pending	0.0095 0.01 (gr/dscf)	25,900 (21,536 dscfm)	Pending	Pending	6.79	1.7585	6.91 8.09
Total						66.52	18.09	79.19 95.85

Notes:

- Finish Mill Nos. 3 & 6 Emission Limits of 0.01 gr/acf; lb/hr; were requested by Permittee in application received November 14, 2000.

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

D. Initial testing to demonstrate compliance with the PM limits established above, shall be conducted only for units F-330, ~~533.BF340~~, F-430, 531.BF01, and 531.BF02. All subsequent compliance testing for PM emissions from the emission points in the table above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5.

E. The pending information listed in this table will be submitted to the DERM Air Facilities Section ~~within 30 days of issuance of this final permit~~ at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.

• Emissions Limits for Finish Mill No. 4 are based on PSD-FL-236 dated July 1, 1998; and Permittee request in application received November 14, 2000.

• Finish Mill Nos. 3 & 4 are existing systems. Finish Mill No. 6 is a new system.

~~Applicant request to Escape BACT, Permit 0250020-010-AC, and Rule 62-297.620(4), F.A.C.~~

B.13 Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

<u>Emission Unit</u>	<u>Baghouse Id. No.</u>	<u>Visible Emissions Limits</u>	<u>Rule Applicability</u>
Finish Mill No. 1	F-113	10%	40 CFR 63.1347
	F-130		Rule 62-297.620(4), F.A.C.
Finish Mill No. 3	533.BF340 F-313	10% with initial PM testing 5% thereafter	40 CFR 63.1347 Rule 62-297.620(4), F.A.C.
	F-330	10% with initial PM testing 5% thereafter	40 CFR 63.1347 Rule 62-297.620(4), F.A.C.
Finish Mill No. 4	F-332	5%	Rule 62-297.620(4), F.A.C.
	F-430		PSD-FL-236
	F-432		
	F-603		
	F-604		
F-605			
Finish Mill No. 6	531.BF01	10% with initial PM testing	40 CFR 63.1347
	531.BF02	5% thereafter	Rule 62-297.620(4), F.A.C.

~~Applicant request, Permit 0250020-010-AC, and Permit PSD-FL-236~~

EMISSIONS UNITS NOS. 004014/016/015 - CEMENT STORAGE SILOS/ PACKHOUSE/ LOADOUT

Operational Requirements

B.14. Hours of Operation: These emissions units may operate continuously, i.e., 8,760 hours per year, except for the packhouse which shall not exceed 4,000 hours of operation per year.

[Requested by applicant permittee in application received November 14, 2000; ~~Permit 0250020-010-AC~~]

B.15. Cement Storage Silo/Packhouse/Loadout Process and Production Design Specifications: The maximum process input rate to each cement silo and loadout operation is 500 TPH on a 24-hour block average. The maximum production rate of cement in the Packhouse is 85 TPH on a 24-hour block average. [Permit AC13-21098 dated November 2, 1979 ~~and Permit 0250020-010-AC~~]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.16. Design Specifications and Particulate Matter Emissions Limits:

a The baghouses for the Cement Storage/Packhouse/Loadout system have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the amounts shown in the following table:

System	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/acf)	Flow Rate acfm [dscfm]	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	PM/PM10 Emissions Limits	
							(lbs/hr)	(TPY)
Cement Silos 1-6	F-511 Fuller 2 zone #78	0.01	18,000	1,625	11.1	5.68	1.54	6.76
Cement Silos 7-9	F-512 Norblo 156 AMT	0.01	10,000	2,142	4.7	3.15	0.86	3.75
Cement Silo 10	F-513 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Cement Silo 11	F-514 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Cement Silo 12	F-515 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Bulk Loadout Unit 1 (Rail/Truck)	B-110 Norblo 120 AMT	0.01	3,000	1,650	1.8	0.95	0.26	1.13
Bulk Loadout Unit 2 (Truck)	B-210 Norblo 120 AMT	0.01	3,000	1,650	1.8	0.95	0.26	1.13
Bulk Loadout Unit 3 Line 1	B-372 Mikropul 36S-8-30-C	0.01	2,000	340	5.9	0.63	0.17	0.75
Bulk Loadout Unit 3 Line 2	B-374 Mikropul 36S-8-30-C	0.01	2,000	340	5.9	0.63	0.17	0.75
Bulk Loadout Unit 3 Line 3	B-382 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Packhouse ^(a)	B-621	0.01	23,400 [23,400]	Pending	Pending	3.37	1.19	5.20
Total						21.68	6.99	25.80

Notes: ^(a) Emissions reflect permit limits established in Permit No. PSD-FL-028 dated March 19, 1980

b Initial and annual compliance testing requirements for PM emissions from all emissions points listed above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C.]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

The pending information listed in this table will be submitted to the DERM Air Facilities Section ~~within 30 days of issuance of this final permit~~ at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.

Emissions reflect permit limits established in PSD-FL-028 dated March 19, 1980. [PSD-FL-028 dated March 19, 1980 and Requested by Permittee in application received November 14, 2000]

[PSD-FL-028 dated March 19, 1980, Applicant requests dated Requested by Permittee in application Received November 14, 2000, and February 8, 2005]

B.17. Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

Cement Silos 1-6	F-511	10%	40 CFR 63.1348
Cement Silos 7-9	F-512	5%	PSD-FL-236
Cement Silos 10, 11, 12	F-513	5%	AC13-21098
	F-514		
	F-515		
Bulk Loadout Unit 1	B-110	10%	PSD-FL-236
Bulk Loadout Unit 2	B-210	10%	PSD-FL-236
Bulk Loadout Unit 3 Line 1	B-372	5%	AC13-21098
Bulk Loadout Unit 3 Line 2	B-374	5%	AC13-21098
Bulk Loadout Unit 3 Line 3	B-382	5%	AC13-21098
Packhouse	Pending	10%	40 CFR 63.1348
	B-621	5%	PSD-FL-028

EMISSIONS UNIT NO. 028005 - RAW MILL/ AND PYROPROCESSING SYSTEM

Operational Requirements

B.18 Hours of Operation: This emissions unit may not operate in excess of 7,884 hours per year except for the CF blend silo (and baghouse 341.BF35004) which may operate 8760 hours per year. [Requested by permittee in application received November 14, 2000 Applicant request Permit 0250020-010-AC]

B.19 Raw Mill/Pyroprocessing System Unit Production Limits: The maximum production of clinker shall not exceed 250 TPH on a 24-hour block average and 1,642,500 TPY. [Rule 62-210.200 (228)(PTE), F.A.C.; and Application received November 14, 2000; Applicant request Permit 0250020-010-AC]

B.20 Operating Limits for In-line kiln/raw mills.

- (a) The owner or operator of a in-line kiln/raw mill subject to a D/F emissions limitation under 40 CFR 63.1343 must operate the in-line kiln/raw mill such that the temperature of the gas at the inlet to the kiln Particulate Matter control device (PMCD) does not exceed the applicable temperature limit specified in the following paragraph (b). ~~The owner or operator of an in-line~~

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

kiln/raw mill subject to a D/E emission limitation under 40 CFR 63.1343, must operate the in-line kiln/raw mill such that:

(1) When the raw mill of the in-line kiln/raw mill is operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, specified in the following paragraph (b), and established during the performance test when the raw mill was operating is not exceeded.

(2) When the raw mill of the in-line kiln/raw mill is not operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, specified in the following paragraph (b), and established during the performance test when the raw mill was not operating, is not exceeded.

(b) The temperature limit for affected sources meeting the limits of paragraph (a) above is determined in accordance with the following: the run average temperature must be calculated for each run, and the average of the run average temperature must be determined and included in the performance test report and will determine the applicable temperature limit.

(c), (d), and (e) are deleted because the owner or operator do not employ carbon injection to control dioxin/furan.

[40 CFR 63.1344(a) & (b), and 63.1349(b)(3)(iv); Permit 0250020-010-AC]

B.21 Methods of Operation – Fuels:

Raw Mill and Pyroprocessing System Unit	Allowable Fuels
	Natural Gas, Bituminous Coal, Petroleum Coke, No. 2 Fuel Oil with used oil blend and No. 6 Fuel Oil with used oil blend. Fuel oil includes on-spec used oil.*

Note:

a. * "Non-hazardous On-specification" used oil is defined as each used oil delivery that meets the 40 CFR 279 (Standards for the Management of Used Oil) specifications listed below. Used oil that does not meet all of the following specifications is considered "off-specification" oil and shall not be fired.

Constituent/Property	Allowable Level
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 4000 ppm maximum*
PCBs	50 ppm maximum
Flash Point	100 °F minimum

The above parameters shall be as determined by approved methods specified in EPA Publication SW-846 (Test Methods for Evaluating Solid Waste, Physical/Chemical Methods).

b. *Analysis of used oil fuel*: The permittee may determine that the used oil to be burned for energy recovery meets the fuel specifications of §279.11 by performing analyses, or obtaining copies of analyses or other information, documenting that the used oil fuel meets the specifications.

c. *Record retention*: The permittee must keep copies of analyses of the used oil (or other information used to make the determination) for three years.

[40 CFR 279.72; Permit 0250020-010-AC]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

(*) Permitting note: 40 CFR 279.10(b)(1) (ii) *Rebuttable presumption for used oil*. Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in subpart D of 40 CFR part 261. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by using an analytical method from SW-846, Edition III, to show that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in appendix VIII of 40 CFR part 261). EPA Publication SW-846, Third Edition, is available from the Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954 (202) 512-1800 (document number 985-001-00000-1). If successfully rebutted for used oil up to 4000 ppm total halogens, used oil up to 4000 ppm maximum total halogens may be fired.

Emissions Limitations and Performance Standards

B.22 Design Specifications and Particulate Matter Emissions Limits:

- a.** The Particulate Matter emissions from the Raw Mill/Pyroprocessing system are controlled by baghouses with the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits shown in the following table on the following page:
- b.** Grain loading of 0.0095 0.04 gr/dscf proposed permit limits for all new baghouses emissions points listed in table above except main stack and assume PM₁₀ = 84% of PM for main stack and 100% for all baghouses other emissions points listed in table above. [Requested by Permittee in application Received November 14, 2000 Applicant request to Escape BACT, 40 CFR 63.1343 and 63.1345, Permit 0250020-010-AC]
- c.** Initial and annual compliance testing requirements for PM emissions limits from all emissions points listed in table above, except limit for baghouse 331-BF200 01 which exhausts to the main/common stack, are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C., Permit 0250020-010-AC]
- The pending information listed in this table will be submitted to the DERM Air Facilities Section at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.
- d.** All the above process units are also subject to 40 CFR 63 Subpart LLL, NESHAPS for Portland Cement Manufacturing Industry.

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Particulate Matter from Raw Mill/Pyroprocessing

Raw Mill/ Pyroprocessing System Process Unit	Baghouse ID Manufacturer Model No.	Grain Loading Limit gr/dscf	Flow Rate acfm {dscfm}	Cloth Area ft ²	Air to Cloth Ratio	Potential PM ₁₀₋₁₀ Emissions Limit TPY	Potential PM Emissions Limits	
							lb/hr	TPY
Kiln/Cooler/ Raw Mill (and Coal Mill when operated simultaneously) Main Stack	331.BF20004 FLS Airtech MSC690D16(16)	0.125*	15,000	173,397 Pending	3.0:1 Pending	147.00	50.0	175.00
			486,000 (360,637) 392,367				[lb/ton of feed to kiln (dry basis)] 53.10 (44.4 annual average for 788 hrs/year)	
Kiln Dust Bin Kiln Dust	331.BF74002 FLS Airtech 100C10	0.0095 0.01	4,250	1302 Pending	3.3:1 Pending	0.95 1.18	0.24	0.95
			6,800 (2,953) 4,175				0.36 1.41	
CE Blend Silo	341.BF35004 FLS Airtech 64C10	0.0095 0.01	3,760	833 Pending	4.5:1 Pending	1.11 1.64	0.25	1.11
			6,250 (3,112) 5,189				0.44 1.95	
Raw Meal Preheat Calciner Tower	351.BF41004 FLS Airtech 64C10	0.0095 0.01	4,000	833 Pending	4.8:1 Pending	1.06 1.46	0.27	1.06
			6,200 (3,310) 5,147				0.44 1.74	
Raw Meal Preheat Calciner Tower	351.BF44002 FLS Airtech 100C10	0.0095 0.01	4,760	1320 Pending	3.7:1 Pending	1.26 0.71	0.32	1.26
			3,000 (3,939) 2,491				0.21 0.84	
Raw Meal Preheat Calciner Tower	351.BF47003 FLS Airtech 100C10	0.0095 0.01	4,100	1302 Pending	3.2:1 Pending	1.09 2.45	0.28	1.09
			10,400 (3,409) 8,634				0.74 2.92	
Kiln Dust Truck Loadout	331.BF645	0.0095	3,500 (2,910)			0.93	0.24	0.93
Total						153.41 154.44	51.60 55.29	181.41 183.86

Notes: (*) Main Stack PM Emissions Limit is 0.125 lbs/ton of kiln feed.

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.23 SO₂, NO_x, CO, VOC, and SAM Emission Limits: The emissions from the Raw Mill/Pyroprocessing system shall not exceed the limits shown in the following table:

Pollutant	Allowable Emissions		Emissions Limits in lbs./ton of clinker		Monitors
	12-month rolling average in TPY [1]	Lbs./hr 24-hr average	24-hr avg. @208 TPH of clinker production (5)	24-hr average @250 TPH of clinker production	
SO ₂	806	320	1.54	1.28	CEM
NO _x	1953	720	3.46	2.88	CEM
CO [10]	1457	576	2.76	2.30	Process
VOC	155	40	0.19	0.16	CEM
SAM	8.68	2.24	0.009	0.009	-

Notes:

- [1] The 12-month rolling average in TPY would be the average of the daily values for the current month and the preceding 11 months. The averages shall be based on the operating days or hours, and shall exclude days or hours in which the plant is not operating.
- [10] The averaging time for CO corresponds to the required length of sampling for the initial and subsequent emission tests.

[Rules 62-4.070(3) and 62-212.400, F.A.C. Permit 0250020-010-AC]

B.24 PM/PM₁₀ and Dioxins/Furans Main Stack Emissions:

Pollutant	Allowable Emissions		Emissions		
	TPY	Lbs./hr	Limit	Unit	Averaging Time
PM	175	53.1	0.125	lbs./ton of dry kiln feed	3 hours
PM ₁₀	147	42.0	0.105	lbs./ton of dry kiln feed	3 hours
Dioxins/Furans			0.20 (or 0.40 when the average of the performance test run average PM control device inlet temperature is 204°C or less. (Corrected to 7% O ₂))	ng TEQ/dscm	3 hours

Notes: The averaging times for PM and PM₁₀ correspond to the required length of sampling for the initial and subsequent emissions tests.

[Rules 62-4.070(3) and 62-212.400, F.A.C. 40 CFR 63.1343; Permit 0250020-010-AC]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.25. Sulfur Dioxide Emissions: Emissions of SO₂ shall not exceed 1.2 lb/MMBtu heat input when solid fuel is fired, or 0.8 lb/MMBtu heat input when liquid fuel is fired, based on a 24 hour average.

[Miami-Dade County Code, Section 24-17(2)(a); Permit 0250020-010-AC]

B.26. Mercury and Lead into the Pyroprocessing System Limited: The baseline potential emissions for mercury and lead, as stated in the Application received June 30, 1998, are 30 lbs/year and 94 lbs/year, respectively. An increase in mercury and lead emissions of 200 and 1,200 pounds, respectively, above the previously stated baseline emissions per consecutive 12-month period shall subject this facility to Prevention of Significant Deterioration (PSD) Review. [Rules 62-4.070(3) and 62-212.400, F.A.C.; Permit 0250020-010-AC]

B.27. Pursuant to 40 CFR 63.1343 Standards for Kilns and In-line Kiln/raw Mills:

(a) *General*. The provisions in this section apply to each in-line kiln/raw mill.

(b) No owner or operator of a inline kiln/raw mill shall cause to be discharged into the atmosphere from these affected sources any gases which:

- (1) Contain particulate matter (PM) in excess of 0.15 kg per Mg (0.30 lb per ton) of feed (dry basis) to the kiln.
- (2) Exhibit opacity greater than 20 percent.
- (3) Contain D/F in excess of:
 - (i) 0.20 ng per dscm (8.7×10^{-11} gr per dscf)(TEQ) corrected to seven percent oxygen; or
 - (ii) 0.40 ng per dscm (1.7×10^{-10} gr per dscf)(TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 204 °C (400 °F) or less.

[40 CFR 63.1343(a) & (b); Permit 0250020-010-AC]

B.28 Engineering Design Capacities For The Raw Mill And Pyroprocessing System Unit:

Process Units Sources	Maximum Capacity (MMBtu/hr heat input)
Raw Mill Heat Input	105
Preheater/Calcliner Heat Input	385
Kiln Heat Input	290
Total System Heat Input	675

[Application received November 14, 2000 Applicant Request: Permit 0250020-010-AC]

B.29 Visible Emissions Limits The baghouses listed below shall not equal or exceed the following visible emissions limits:

Emissions Point	Baghouse Id. No.	Visible Emissions Limit	Permit/Rule Applicability
Main Dust Collector exhausts to Main/Common Stack	331.BF01200	10%*	40 CFR 63.1342
Cement Kiln Dust Bin	331.BF02740		
Blending & Storage System	341.BF01350	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 <u>Rule 62-297.620(4) F.A.C</u>
	351.BF02410		
	351.BF02440		
	351.BF03470		

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Note: (*) This emissions unit discharges to the common (main) stack. The Clinker Cooler which is limited to 10% opacity, discharges to the common (main) stack and therefore determines the opacity limit for this emissions unit. ~~The raw mill is also limited to 10% opacity. [40 CFR 63.1345(a)(2) and 63.1347, Permit 0250020-010-AC, Permit application 0250020-016-AC]~~

EMISSIONS UNIT NO. 029006 – RAW MATERIAL HANDLING

Operational Requirements

B.30. Hours of Operation: This emissions unit may not operate in excess of 7,884 hours per year, except for baghouse 232.BF01 for the lime/gypsum silos (existing silos) which shall not exceed 4,000 hours of operation per year. ~~[Requested by permittee in application received November 14, 2000 Applicant request, Permit 0250020-010-AC]~~

B.31. Raw Material Handling System Throughput Specification: The maximum dry throughput rate is shown in the following table:

Source Description	Throughput Maximum (TPY)
Raw Material Handling System	3,260,000 (dry)

~~The owner or operator shall record all throughput rates on a rolling 12-month basis, and maintain records for a minimum of 5 years. [Applicant request, Permit 0250020-010-AC, Rules 62.070(3), and 62-213.440, F.A.C.]~~

Emissions Limitations and Performance Standards

B.32. Design Specifications and Particulate Matter Emissions Limits:

1 The Particulate Matter emissions from the Raw Material Handling system are controlled by baghouses with the following or equivalent design specifications:

System Process Units	Baghouse ID Manufacturer Model No.	Grain Loading Limit gr/dscf	Flow Rate acfm [dscfm]	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM/PM ₁₀ Emissions Limits	
							(lb/hr)	(TPY)
Lime/Gyp Silos	232.BF01	0.0095	5,170	Pending	Pending	0.74	0.42	0.84
	Pending	0.01	[5,170]				0.44	0.89
	Pending							
Additives Silo 1	311.BF65001	0.0095	8,500 11,000	Pending	Pending	3.12	0.66	2.61
	Pending	0.01	[8,130 11,000]				0.94	3.72
	Pending							
Additives Silo 2	311.BF75002	0.0095	7,750 6,050	Pending	Pending	1.37	0.60	2.38
	Pending	0.01	[7,413 4,840]				0.41	1.64
	Pending							
Additives Silo 3	311.BF47003	0.0095	10,800 10,000	Pending	Pending	2.84	0.82	3.22
	Pending	0.01	[10,039 10,000]				0.86	3.38
	Pending							
Additives Silo 4	311.BF95004	0.0095	11,700 10,000	Pending	Pending	2.84	0.89	3.40
	Pending	0.01	[10,876 10,000]				0.86	3.38
	Pending							
Total						10.91	1.39	12.54
							3.51	13.01

Notes: Grain loading of 0.01 gr/dscf proposed permit limits for all baghouses listed above and assume PM-10 = 84% of PM. ~~[Requested by Permittee in application Received November 14, 2000]~~

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

b) Initial and annual compliance testing requirements for PM emissions from all emissions points listed above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C.]

c) The pending information listed in this table will be submitted to the DERM Air Facilities Section ~~within 30 days of issuance of this final permit~~ at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.

~~Permit 0250020-010-AC~~

B.33. Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

Process unit	Baghouse Id. No.	Visible Emissions Limit	Rule Applicability
Lime/Gyp Silos	232.BF01	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4) F.A.C.
Additives Silo 1	311.BF01		
Additives Silo 2	311.BF02		
Additives Silo 3	311.BF03		
Additives Silo 4	311.BF04		

~~Permit 0250020-010-AC~~

DRAFT

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Section III, Emissions Units Specific Conditions C.0 through C.26 in Permit 0250020-010-AC dated May 1, 2001 are adopted in their entirety. Certain conditions of that permit are modified as shown below. Additions are highlighted, and deletions are shown by ~~strikethroughs~~.

C. COMMON CONDITIONS

~~These emissions units shall comply with the 40 CFR 63 Subpart LLL - National Emissions Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry for Major Sources of HAPs, and 40 CFR 63, Subpart A - General Provisions for Subpart LLL - Portland Cement Plants~~

C.0 Emissions Unit Specific Testing, Monitoring, Notification, Recordkeeping, and Reporting Requirements

C.1. Test Methods and Procedures: The permittee shall conduct testing/monitoring on all emissions units as indicated below:

System	Unit ID	Pollutant	BPA Test Method	Frequency
EU 0260 Coal Handling				
Coal Mill Main exhausts to main stack (if not operated simultaneously with Kiln Cooler/Raw Mill)	461.BF3001	PM Opacity	5 9	Initial ^(b) & Annual ^(b) Initial & Annual 5-years
Dump Hopper (Transfer)	461.BF13001			
Conveyors (2) (Transfer) & Coal and Petroleum Coke Feed Bins	461.BF23002			
Coke/Petroleum Coke (Transfer)	461.BF75002	PM	5	Initial ^(b) & Annual ^(b)
Surge Bin (Feeder)	461.BF65003	Opacity	9	Initial & Annual
Coal (Transfer)	461.BF650			
Surge Bin (Feeder)	461.BF650			
Coal Mill Feed	461.BF350			
EU 0077 Clinker Handling & Storage				
Clinker Silos 21-23 & 26-28	441.F633			
Clinker Transfer conveyors from cooler Burner Building	441.BF54001			
Clinker Silos	481.BF14001	PM	5	Initial ^(b) & Annual ^(b)
Clinker Transfer Conveyors	481.BF54002	Opacity	9	Initial & Annual 5-years
Clinker Off-spec Bins	481.BF33003			
Clinker transfer	481.BF640			
Clinker transfer	481.BF730			
Clinker transfer	481.BF930			

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

EUs 003, 012, and 013 Finish Mills				
Finish Mill No. 1	F-113	PM	5	Initial ^(b) & Annual ^(b)
	F-130	Opacity	9	Initial & Annual ^(b) 5-years
Finish Mill No. 3	F-330	PM	5	Initial & Annual ^(b)
		Opacity	9	Initial & Annual ^(b) 5-years
	F-332	PM	5	Initial ^(b) & Annual ^(b)
		Opacity	9	Initial & Annual ^(b) 5-years
	F-333 B-340	PM	5	Initial & Annual ^(b)
	F-313	Opacity	9	Initial & Annual ^(b) 5-years
Finish Mill No. 4 <i>Belt conveyor/ Separator</i>	F-432			
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-605	PM	5	Initial ^(b) & Annual ^(b)
		Opacity	9	Initial & Annual ^(b) 5-years
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-603			
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-604			
Finish Mill No. 4 <i>Ball Mill/Mill Sweep</i>	F-430	PM	5	Initial & Annual ^(b)
Finish Mill No. 6 <i>Main</i>	531.BF01	Opacity	9	Initial & Annual ^(b) 5-years
Finish Mill No. 6 <i>Sweep</i>	531.BF02			
EUs 004, 014, 015, and 016 Cement Storage, Packhouse, & Loadout				
Cement Silos 1-6	F-511			
Cement Silos 7-9	F-512			
Cement Silo 10	F-513			
Cement Silo 11	F-514			
Cement Silo 12	F-515			
Bulk Loadout Unit 1 <i>(Rail/Truck)</i>	B-110			
Bulk Loadout Unit 2 <i>(Truck)</i>	B-210	PM	5	Initial ^(b) & Annual ^(b)
Bulk Loadout Unit 3 Line 1	B-372	Opacity	9	Initial & Annual ^(b) 5-years
Bulk Loadout Unit 3 Line 2	B-374			
Bulk Loadout Unit 3 Line 3	B-382			
Packhouse	Pending			

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

EU 02805 Raw Mill and Pyroprocessing System				
Kiln/Cooler/Raw Mill and Coal Mill when operated simultaneously Main/Common Stack	331.BF20004	PM	5	Initial & Annual
		PM10	5	Initial & Annual
		Opacity	9	Initial & 5 years
		SO2	6	Initial & 5 years
		NOx	7 or 7E	Initial & 5 years
		CO	10	Initial & 5 years
		VOC	25 or 25A	Initial & 5 years
		SAM	5 & 8	Initial & 5 years
		Dioxins/Furans	23	Initial & 30 months
		Lead/Mercury	29 or 101A	Initial & Annual ^(a)
Kiln Dust Bin	331.BF74002			
Kiln Dust				
CH Blend Silo	341.BF35004			
Raw Meal Preheat/Calciner Tower	351.BF41004	PM	5	Initial ^(b) & Annual ^(b)
Raw Meal Preheat/Calciner Tower	351.BF44002	Opacity	9	Initial & Annual 5 years
Raw Meal Preheat/Calciner Tower	351.BF47003			
Kiln Dust Truck Loadout	331.BF645			
EU 02906 Raw Material Handling				
Lime/Gyp Silos	232.BF01			
Additives Silo 1	311.BF65004	PM	5	Initial ^(b) & Annual ^(b)
Additives Silo 2	311.BF75002	Opacity	9	Initial & Annual 5 years
Additives Silo 3	311.BF47003			
Additives Silo 4	311.BF95004			

Notes:

- ^(a) In the event that initial testing for mercury and lead result in potential annual emissions below 130 and 694 pounds, respectively, the DERM may waive the annual testing and require testing once every 5 years. Should subsequent test results indicate levels greater than those mentioned above, the facility shall revert to an annual testing schedule.
- ^(b) Initial and subsequent compliance testing requirements for PM emissions, except those listed below, are waived and an alternative standard of 5% opacity is imposed. If the DERM has reason to believe that the particulate weight emissions standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. The following emissions units require initial testing for PM emissions: 331.BF20004, F-330, 331.BF340, F-430, 531.BF01, 531.BF02

Permit No. 0250020-010-AC, Rule 62-297.310(7), F.A.C.

C.2 through C.9. No Changes in these conditions.

C.10. **Fuel Analysis for On-specification Used Oil:** Fuel analysis shall be in accordance with 40 CFR 266.43(b)(1) & (6). A sample shall be taken from the outlet of the blend tank on the first working day (i.e., Monday-Friday; exceptions: holidays) of each month, if any used oil was placed in the blend tank the previous month; or, the sample can be taken directly from the used oil mobile collection tank after final collection and prior to the time of initial transfer; but, that sampling frequency shall be no less than quarterly and the sampling methodology shall have been established with the DERM, Miami-Miami-Dade County prior to sampling. Upon taking a sample, the sample shall be analyzed for the following constituent/property and associated unit and using the following test methods (or their latest version):

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Constituent/Property	Unit	Test Method
Arsenic	ppm	EPA SW-846 (3040-7130)
Cadmium	ppm	EPA SW-846 (3040-7130)
Chromium	ppm	EPA SW-846 (3040-7130)
Lead	ppm	EPA SW-846 (3040-7130)
Total Halogens	ppm	ASTM E442
PCBs	ppm	ASTM D4059
Sulfur	% by weight	ASTM D2622-92, ASTM D4294-90, or both ASTM D4057-88 & ASTM D129-91
Flash Point	°F	ASTM D93
Heat of Combustion	Btu/gal	ASTM D240-76
Density	Lbs/gal	ASTM D1298-80

Note: Other test methods may be used only after receiving written approval from the DERM.
 [40 CFR 279.11, which is adopted by reference in Rule 62-710.210(2), F.A.C.]

C.11 through C.26. No Changes in these conditions

DRAFT

EMISSION UNIT 2

CLINKER HANDLING AND STORAGE

EMISSIONS UNIT INFORMATION

Section [2]

Clinker Handling and Storage

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]

Clinker Handling and Storage

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

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

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

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

Emissions Unit Description and Status

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

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

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

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

2. Description of Emissions Unit Addressed in this Section:
Clinker Handling and Storage

3. Emissions Unit Identification Number: **027**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--------------------------------	--------------------------	--	--

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

10. Generator Nameplate Rating: _____ MW

11. Emissions Unit Comment:
Emission unit consists of Clinker Handling and Storage systems for the Pyroprocessing Operation and Clinker Silos 2, 5, 12, 17-21, 23, 26, and 28.

EMISSIONS UNIT INFORMATION

Section [2]

Clinker Handling and Storage

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Baghouses (8)

Process Enclosures

2. Control Device or Method Code(s): **018, 054**

EMISSIONS UNIT INFORMATION

Section [2]

Clinker Handling and Storage

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: EU 027		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: 8 baghouse stacks. See Attachment TM-EU2-C15.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 113 feet		7. Exit Diameter: feet
8. Exit Temperature: 250 °F	9. Actual Volumetric Flow Rate: 18,700 acfm		10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: 13,906 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: Data presented above reflects Baghouse 481.BF730. Refer to Attachment TM-EU2-C15 for stack parameters for other baghouses.			

EMISSIONS UNIT INFORMATION

Section [2]

Clinker Handling and Storage

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment **1** of **2**

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 Cement Produced
4. Maximum Hourly Rate: 250	5. Maximum Annual Rate: 2,190,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Note: maximum rates reflect transfer of clinker. Maximum hourly rate is 24-hour block average.		

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

1. Segment Description (Process/Fuel Type): Mineral Products; Cement Manufacturing; Dry Process; Clinker Storage Silos.		
2. Source Classification Code (SCC):		3. SCC Units: Tons Cement Produced
4. Maximum Hourly Rate: 250	5. Maximum Annual Rate: 2,190,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Rates refer to tons of clinker produced. Maximum hourly rate is 24-hour block average.		

EMISSIONS UNIT INFORMATION

Section [2]

Clinker Handling and Storage

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	018		EL
PM ₁₀	018		EL

EMISSIONS UNIT INFORMATION

Section [2]
Clinker Handling and Storage

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter Total - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: 4.5 lb/hour 19.7 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: 0.0095 gr/dscf or 0.01 gr/acf Reference: Manufacturer Design	7. Emissions Method Code: 0
8. Calculation of Emissions: See Attachment TM-EU2-F1.8 for emission calculations.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [2]
Clinker Handling and Storage

Page [1] of [2]
Particulate Matter Total - PM

**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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.0095 or 0.01 gr/dscf	4. Equivalent Allowable Emissions: 4.5 lb/hour 19.7 tons/year
5. Method of Compliance: EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): See Attachment TM-EU2-F1.8 for potential emission calculations.	

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

POLLUTANT DETAIL INFORMATION

Section [2]
Clinker Handling and Storage

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

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: 4.5 lb/hour 19.7 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: Reference:	7. Emissions Method Code: 0
8. Calculation of Emissions: Assumed to be the same as PM emissions. See Attachment TM-EU2-F1.8 for emission calculations.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [2]
Clinker Handling and Storage

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

**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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.0095 or 0.01 gr/dscf	4. Equivalent Allowable Emissions: 4.5 lb/hour 19.7 tons/year
5. Method of Compliance: EPA Method 9	
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):	

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 [2]

Clinker Handling and Storage

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: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual VE test using EPA Method 9.	
5. Visible Emissions Comment: Based on Permit No. 0250020-016-AC and Rule 40 CFR 63.1348.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual VE test using EPA Method 9.	
5. Visible Emissions Comment: Based on Permit No. 0250020-016-AC. Based on Rule 62-297.620(4), in lieu of stack testing for PM.	

EMISSIONS UNIT INFORMATION

Section [2]

Clinker Handling and Storage

H. CONTINUOUS MONITOR INFORMATION

Complete 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 [2]

Clinker Handling and Storage

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: TM-EU2-I1 <input type="checkbox"/> Previously Submitted, Date _____
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: TM-EU2-I3 <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [2]

Clinker Handling and Storage

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: TM-EU2-IV1 <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring <input checked="" type="checkbox"/> Attached, Document ID: CAM Plan <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
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 checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [2]

Clinker Handling and Storage

Additional Requirements Comment

[Empty rectangular box for additional requirements comment]

ATTACHMENT TM-EU2-C15

EMISSION POINT COMMENT

Attachment TM-EU2-C15. Summary of Stack Parameter Data for the Clinker Handling and Storage System (EU 027)

Emission Unit	Baghouse ID No.	Stack Height (ft)	Vent Size (in)	Exhaust Flow Rate (acfm)	Exhaust Temperature (°F)
Clinker transfer	441.BF540	53	12 x 15	4,600	250
Clinker silos	481.BF140	185	19 x 13	12,000	250
Clinker transfer	481.BF540	44	12 x 15	4,700	250
Clinker bins	481.BF330	103	16 x 19	6,100	250
Clinker transfer	481.BF640	42	12 x 15	4,700	250
Clinker transfer	481.BF730	113	23 x 33	18,700	250
Clinker silos 21-23 and 26-28	F633	130	1.0 ^a	6,000	77
Clinker silos	481.BF930	113	20 x 30	15,000	250

^aDiameter of round stack.

ATTACHMENT TM-EU2-F1.8

EMISSION CALCULATIONS

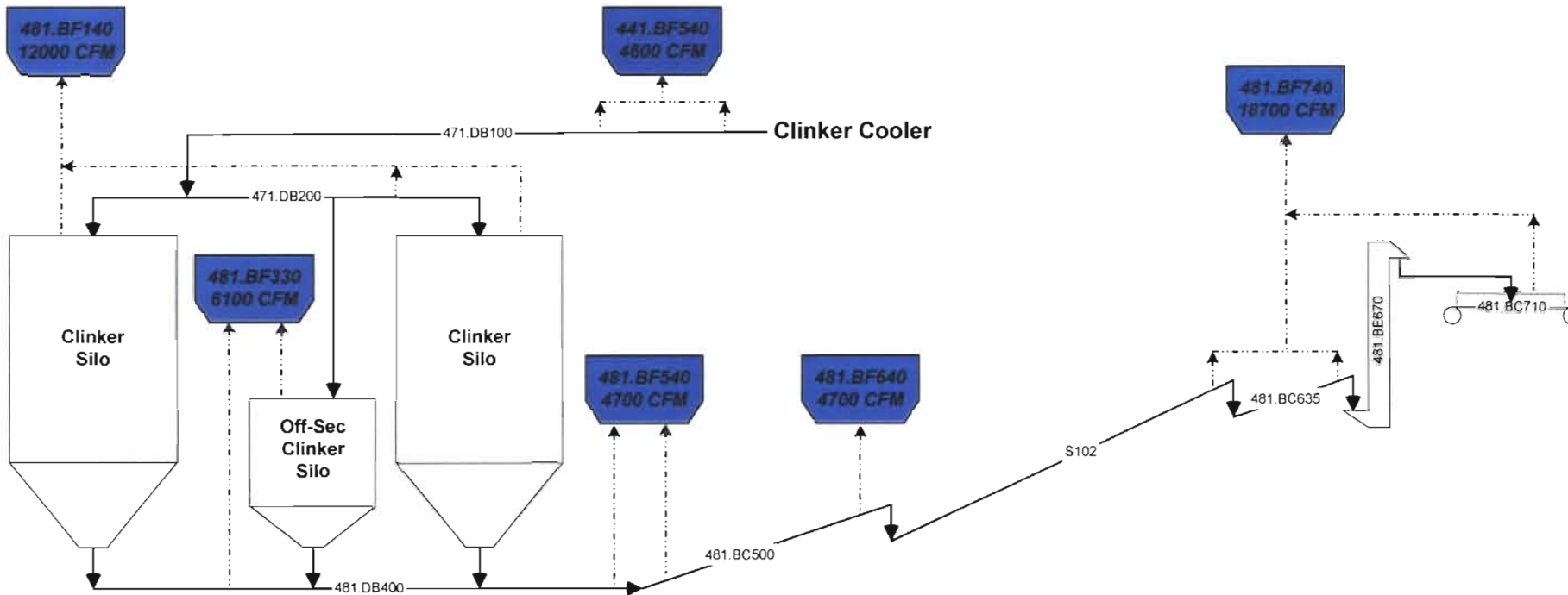
Attachment TM-EU2-F1.8. Clinker Handling and Storage System (EU ID No. 027) Potential Emission Rates: 2,190,000 TPY Clinker

Emission Unit	Equip. ID No.	New or Existing	Operating Hours (hr/yr)	Exhaust Flow Rate		Temperature (°F)	Potential PM/PM ₁₀ Emission Rate ^a			
				acfm	dscfm		gr/dscf	gr/acf	lb/hr	TPY
Clinker transfer	441.BF540	New	8,760	4,600	3,421	250	0.0095	--	0.28	1.22
Clinker Silos	481.BF140	New	8,760	12,000	8,924	250	0.0095	--	0.73	3.18
Clinker transfer	481.BF540	New	8,760	4,700	3,495	250	0.0095	--	0.28	1.25
Clinker bins	481.BF330	New	8,760	6,100	4,536	250	0.0095	--	0.37	1.62
Clinker transfer	481.BF640	New	8,760	4,700	3,495	250	0.0095	--	0.28	1.25
Clinker transfer	481.BF730	New	8,760	18,700	13,906	250	0.0095	--	1.13	4.96
Clinker Silos 21-23 & 26-28	F633	Existing	8,760	6,000	--	77	--	0.01	0.51	2.25
Clinker silos	481.BF930	New	8,760	15,000	11,155	250	0.0095	--	0.91	3.98
Revised Potential Emission Rates =									4.50	19.70

^a PM₁₀ emission rate calculated as 100 percent of PM emission rate.

ATTACHMENT TM-EU2-I1

PROCESS FLOW DIAGRAM



Clinker Handling & Storage [EU-027]

DESCRIPTION

Attachment TM-EU2-11a
Process Flow Diagram

TITLE: PENNSUCO CEMENT

FILENAME: NEW PLOT PLANS.VSD/TM-EU2-11a

LAST REVISION DATE: 4/27/2005



481.BF740
18700 CFM



481.BC710

Pan Conveyor

Clinker Silo 2

Clinker Silo 5

Clinker Silo 12

Clinker Silo 15

Clinker Silo 23

Clinker Silo 28

F633
6000 CFM

481.BF930
15000 CFM

Drag Conveyor

Clinker Silo 17

Clinker Silo 18

Clinker Silo 19

Clinker Silo 20

Clinker Silo 21

Clinker Silo 26

Clinker Handling & Storage [EU-027]

DESCRIPTION

Attachment TM-EU2-11b
Process Flow Diagram

TITLE: PENNSUCO CEMENT

FILENAME: NEW PLOT PLANS VSD/TM-EU2-11b

LAST REVISION DATE: 4/27/2005



ATTACHMENT TM-EU2-I3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

Attachment TM-EU2-I3. Control Equipment Information for Clinker Handling and Storage System

Source ID	Baghouse			Flow Rate		Cloth Area (ft ²)	Air to Cloth Ratio
	ID No.	Manufacturer	Model No.	(acfm)	(dscfm)		
Clinker Transfer (Conveyors from Cooler)	441.BF540	FLS Airtech	100C10	4,600	3,421	1,302	3.5:1
Clinker silos	481.BF140	FLS Airtech	196C10	12,000	8,924	2,552	4.7:1
Clinker Transfer Conveyors	481.BF540	FLS Airtech	100C10	4,700	3,495	1,302	3.6:1
Clinker Bins	481.BF330	FLS Airtech	100C10	6,100	4,536	1,302	4.7:1
Clinker transfer	481.BF640	FLS Airtech	100C10	4,700	3,495	1,302	3.6:1
Clinker transfer	481.BF730	FLS Airtech	304C10	18,700	13,906	3,958	4.7:1
Clinker Silos 21-23 and 26-28	F633	--	--	6,000	--	--	--
Clinker transfer	481.BF930	FLS Airtech	304C10	15,000	11,155	3,958	3.8:1

ATTACHMENT TM-EU2-IV1

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT TM-EU2-IV1

**LIST OF APPLICABLE REGULATIONS
FOR THE CLINKER HANDLING AND STORAGE**

62-296.320(4)(b) – Visible Emissions

40 CFR 63.1342 – NESHAPs Subpart LLL – Standards: General

40 CFR 63.1348 – NESHAPs Subpart LLL – Material Handling Sources Opacity Limit

40 CFR 63.1349 – NESHAPs Subpart LLL – Performance Testing

40 CFR 63.1350 – NESHAPs Subpart LLL – Monitoring

40 CFR 63.1351 – NESHAPs Subpart LLL – Compliance Dates

40 CFR 63.1356 – NESHAPs Subpart LLL – Exemption from NSPS

40 CFR 63 – NESHAPs Subpart A – General Provisions

EMISSION UNIT 3

FINISH MILL NOS. 1, 3, 4, AND 6

EMISSIONS UNIT INFORMATION

Section [3]

Finish Mill Nos. 1, 3, 4, and 6

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 [3]

Finish Mill Nos. 1, 3, 4, and 6

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.)
<input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
<input type="checkbox"/> 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)				
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).				
<input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.				
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.				
2. Description of Emissions Unit Addressed in this Section: Finish Mill Nos. 1, 3, 4, and 6				
3. Emissions Unit Identification Number: 010, 012, 013, and 030				
4. Emissions Unit Status Code: C	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9. Package Unit: Manufacturer: _____ Model Number: _____				
10. Generator Nameplate Rating: _____ MW				
11. Emissions Unit Comment: Emission unit consists of Finish Mill Nos. 1 (EU 010), 3 (EU 012), 4 (EU 013), and 6 (EU 030).				

EMISSIONS UNIT INFORMATION

Section [3]

Finish Mill Nos. 1, 3, 4, and 6

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Baghouses (12)

Process Enclosure

2. Control Device or Method Code(s): **018, 054**

EMISSIONS UNIT INFORMATION

Section [3]

Finish Mill Nos. 1, 3, 4, and 6

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 359 TPH (24-hour block average)
2. Maximum Production Rate: 3,144,840 TPY
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: Individual capacities: <ul style="list-style-type: none">• Finish Mill No. 1 - 25 TPH• Finish Mill No. 3 - 84 TPH• Finish Mill No. 4 - 140 TPH• Finish Mill No. 6 - 110 TPH 359 TPH

EMISSIONS UNIT INFORMATION

Section [3]

Finish Mill Nos. 1, 3, 4, and 6

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: EU 010, 012, 013, 030		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: 12 baghouse stacks. See Attachment TM-EU3-C15.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 85 feet	7. Exit Diameter: 4.50 feet	
8. Exit Temperature: 169 °F	9. Actual Volumetric Flow Rate: 77,800 acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: 65,307 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 data representative of O-Sepa Separator baghouse stack on Finish Mill No. 3 (Equipment ID No. 533.BF340). Refer to Attachment TM-EU3-C15 for stack parameters for other baghouses.			

EMISSIONS UNIT INFORMATION

Section [3]

Finish Mill Nos. 1, 3, 4, and 6

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 Grinding.		
2. Source Classification Code (SCC): 3-05-006-17		3. SCC Units: Tons Cement Produced
4. Maximum Hourly Rate: 359	5. Maximum Annual Rate: 3,144,840	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Maximum annual rate based on 8,760 hours per year of operation. Maximum hourly rate is 24-hour block average.		

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:		

EMISSIONS UNIT INFORMATION

Section [3]

Finish Mill Nos. 1, 3, 4, and 6

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	018		EL
PM₁₀	018		EL

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [3]
 Finish Mill Nos. 1, 3, 4, and 6

Page [1] of [2]
 Particulate Matter Total - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: 24.3 lb/hour 106.5 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: See Attachment TM-EU3-F1.8. Reference:	7. Emissions Method Code: 0
8. Calculation of Emissions: See Attachment TM-EU3-F1.8 for calculation of emissions.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [3]
 Finish Mill Nos. 1, 3, 4, and 6

Page [1] of [2]
 Particulate Matter Total - PM

**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 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/dscf	4. Equivalent Allowable Emissions: 10.65 lb/hour 46.66 tons/year
5. Method of Compliance: EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Applies to all baghouses except Finish Mill No. 3, baghouse 533.BF340, and Finish Mill No. 6 baghouses. See Attachment TM-EU3-F1.8 for emission calculations.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.0095 gr/dscf	4. Equivalent Allowable Emissions: 13.66 lb/hour 59.83 tons/year
5. Method of Compliance: EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Permit limit applies to Finish Mill No. 3, baghouse 533.BF340, and Finish Mill No. 6 baghouses 531.BF01 and 531.BF02. See Attachment TM-EU3-F1.8 for emission calculations.	

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

POLLUTANT DETAIL INFORMATION

Section [3]
Finish Mill Nos. 1, 3, 4, and 6

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

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:	
3. Potential Emissions: 24.3 lb/hour 106.5 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: Reference:		7. Emissions Method Code: 0	
8. Calculation of Emissions: Assumed to be the same as PM emissions; see Attachment TM-EU3-F1.8.			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [3]
Finish Mill Nos. 1, 3, 4, and 6

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

**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 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/dscf	4. Equivalent Allowable Emissions: 10.65 lb/hour 46.66 tons/year
5. Method of Compliance: EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Applies to all baghouses except Finish Mill No. 3, baghouse 533.BF340, and Finish Mill No. 6 baghouses. See Attachment TM-EU3-F1.8 for emission calculations.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.0095 gr/dscf	4. Equivalent Allowable Emissions: 13.66 lb/hour 59.83 tons/year
5. Method of Compliance: EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Permit limit applies to Finish Mill No. 3, baghouse 533.BF340, and Finish Mill No. 6 baghouses 531.BF01 and 531.BF02. See Attachment TM-EU3-F1.8 for emission calculations.	

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 [3]

Finish Mill Nos. 1, 3, 4, and 6

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 3

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual visible emissions test using EPA Method 9.	
5. Visible Emissions Comment: BACT determination from Permit PSD-FL-236 for Finish Mill No. 4 only. Also applicable to all baghouses per Rule 62-297.620(4) in lieu of stack testing.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 3

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: EPA Method 9	
5. Visible Emissions Comment: 40 CFR 63.1347. MACT, applicable to all Finish Mills.	

EMISSIONS UNIT INFORMATION

Section [3]

Finish Mill Nos. 1, 3, 4, and 6

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 3 of 3

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Annual visible emissions test using EPA Method 9.	
5. Visible Emissions Comment: Applies to Finish Mill No. 1. Rule 62-296.320(4)(b).	

Visible Emissions Limitation: Visible Emissions Limitation ____ of ____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [3]

Finish Mill Nos. 1, 3, 4, and 6

H. CONTINUOUS MONITOR INFORMATION

Complete 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 [3]

Finish Mill Nos. 1, 3, 4, and 6

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) <input checked="" type="checkbox"/> Attached, Document ID: TM-EU3-11 <input type="checkbox"/> Previously Submitted, Date _____</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). <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</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) <input checked="" type="checkbox"/> Attached, Document ID: TM-EU3-13 <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input 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) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable</p>
<p>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.</p>
<p>7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [3]

Finish Mill Nos. 1, 3, 4, and 6

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: TM-EU3-IV1 <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring <input checked="" type="checkbox"/> Attached, Document ID: CAM Plan <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
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 checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [3]

Finish Mill Nos. 1, 3, 4, and 6

Additional Requirements Comment

[Empty rectangular box for additional requirements comment]

ATTACHMENT TM-EU3-C15

EMISSION POINT COMMENT

Attachment TM-EU3-C15. Summary of Stack Parameter Data for the Finish Mills (EU 010, 012, 013, 030)

Emission Unit	Baghouse ID No.	Stack Height (ft)	Stack Diameter (ft)	Exhaust Flow Rate (acfm)	Exhaust Temperature (°F)
Finish Mill No. 1 Baghouse	F113	106	1.00	11,800	110
Finish Mill No. 1 Baghouse	F130	106	1.00	12,000	110
Finish Mill No. 3 Baghouse	F330	106	1.50	20,000	110
Finish Mill No. 3 Baghouse	F313	106	1.50	13,500	110
Finish Mill No. 3 Baghouse	533.BF340	84.6	4.50	77,800	169
Finish Mill No. 4 Baghouse	F432	106	2.00	17,000	110
Finish Mill No. 4 Baghouse	F605	106	2.00	4,000	110
Finish Mill No. 4 Baghouse	F603	106	1.00	8,000	110
Finish Mill No. 4 Baghouse	F430	106	1.00	30,000	110
Finish Mill No. 4 Baghouse	F604	106	1.00	8,000	110
Finish Mill No. 6 Baghouse	531.BF01	110	2.00	97,300	110
Finish Mill No. 6 Baghouse	531.BF02	110	2.00	25,900	110

ATTACHMENT TM-EU3-F1.8

EMISSION CALCULATIONS

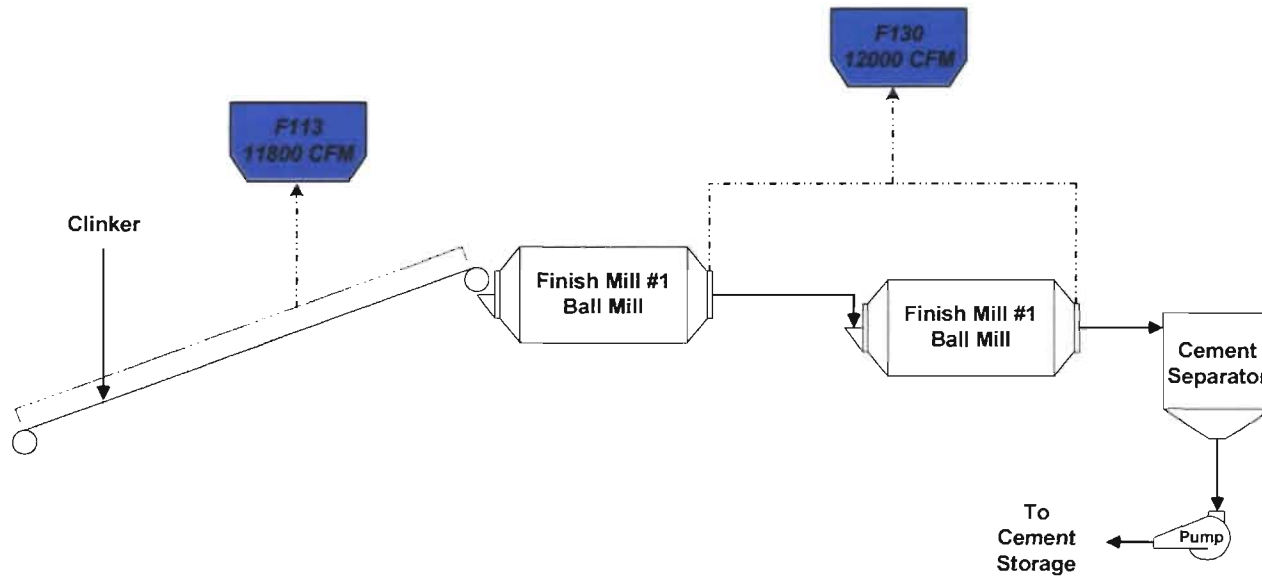
Attachment TM-EU3-F1.8. Finish Mills (EU ID Nos. 010, 012, 013, and 030) Potential Emission Rates: **2,190,000 TPY Clinker**

Emission Unit	Equipment ID No.	New or Existing	Operating Hours (hr/yr)	Exhaust Flow Rate		Temperature (°F)	Potential PM/PM ₁₀ Emission Rate ^a			
				acfm	dscfm		gr/dscf	gr/acf	lb/hr	TPY
Finish Mill No. 1 Baghouse	F113	Existing	8,760	11,800	--	--	--	0.01	1.01	4.43
Finish Mill No. 1 Baghouse	F130	Existing	8,760	12,000	--	--	--	0.01	1.03	4.51
Finish Mill No. 3 Baghouse	F330	Existing	8,760	20,000	--	--	--	0.01	1.71	7.51
Finish Mill No. 3 Baghouse	F313	Existing	8,760	13,500	--	--	--	0.01	1.16	5.07
Finish Mill No. 3 Baghouse	533.BF340	New	8,760	77,800	65,307	169	0.0095	--	5.32	23.29
Finish Mill No. 4 Baghouse	F432	Existing	8,760	17,000	--	--	--	0.01	1.46	6.38
Finish Mill No. 4 Baghouse	F605	Existing	8,760	4,000	--	--	--	0.01	0.34	1.50
Finish Mill No. 4 Baghouse	F603	Existing	8,760	8,000	--	--	--	0.01	0.69	3.00
Finish Mill No. 4 Baghouse	F430	Existing	8,760	30,000	--	--	--	0.01	2.57	11.26
Finish Mill No. 4 Baghouse	F604	Existing	8,760	8,000	--	--	--	0.01	0.69	3.00
Finish Mill No. 6 Baghouse	531.BF01	New	8,760	97,300	80,905	--	0.0095	--	6.59	28.86
Finish Mill No. 6 Baghouse	531.BF02	New	8,760	25,900	21,536	--	0.0095	--	1.75	7.68
Revised Potential Emission Rates =									24.31	106.49

^a PM₁₀ emission rate calculated as 100 percent of PM emission rate.

ATTACHMENT TM-EU3-I1

PROCESS FLOW DIAGRAM



Finish Mill #1 [EU-010]

DESCRIPTION

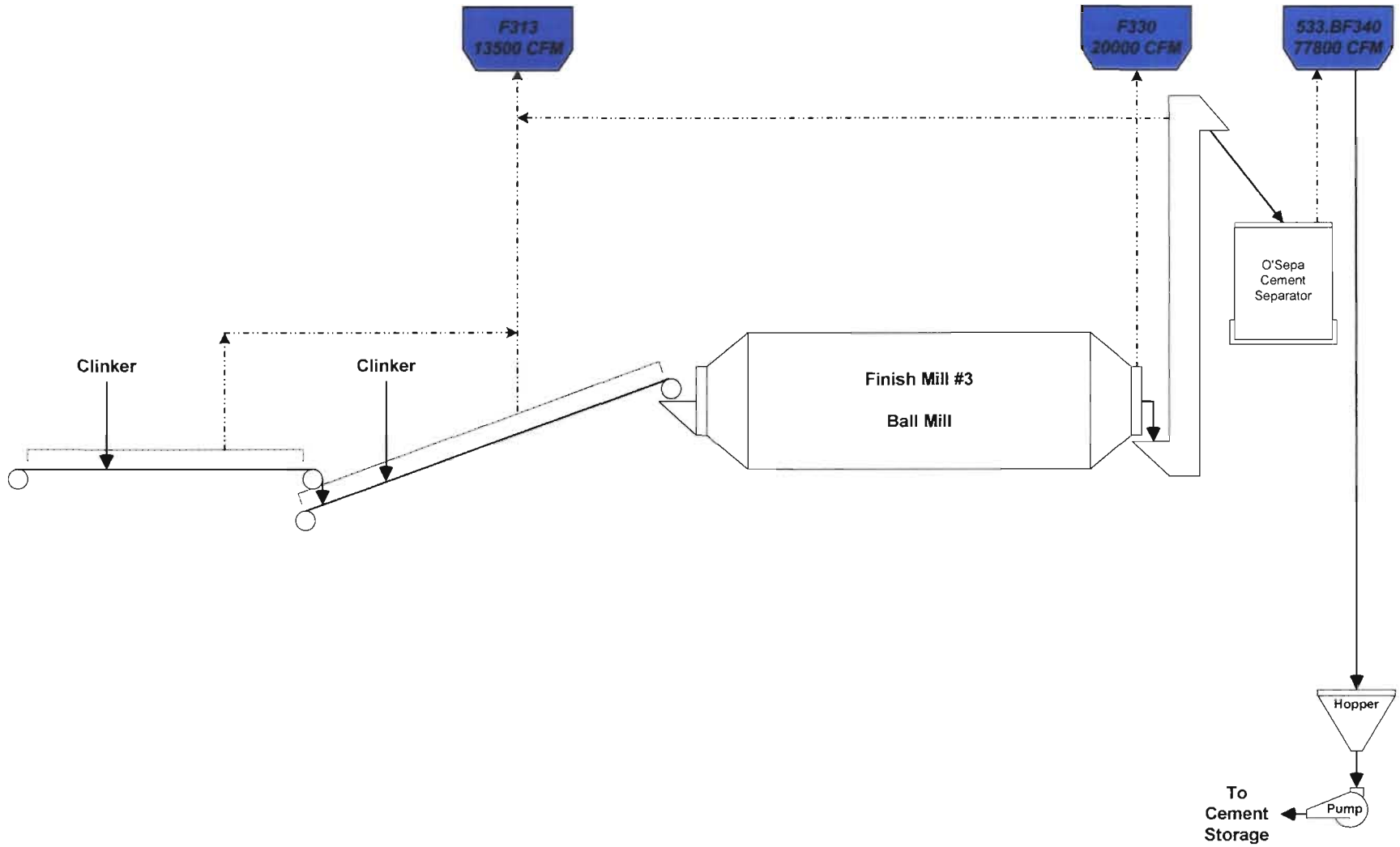
Attachment TM-EU3-I1a
Process Flow Diagram

TITLE: **PENNSUCO CEMENT**

FILENAME: NEW PLOT PLANS.VSD/TM-EU3-I1a

LAST REVISION DATE: 4/27/2005





Finish Mill #3 [EU-012]

DESCRIPTION

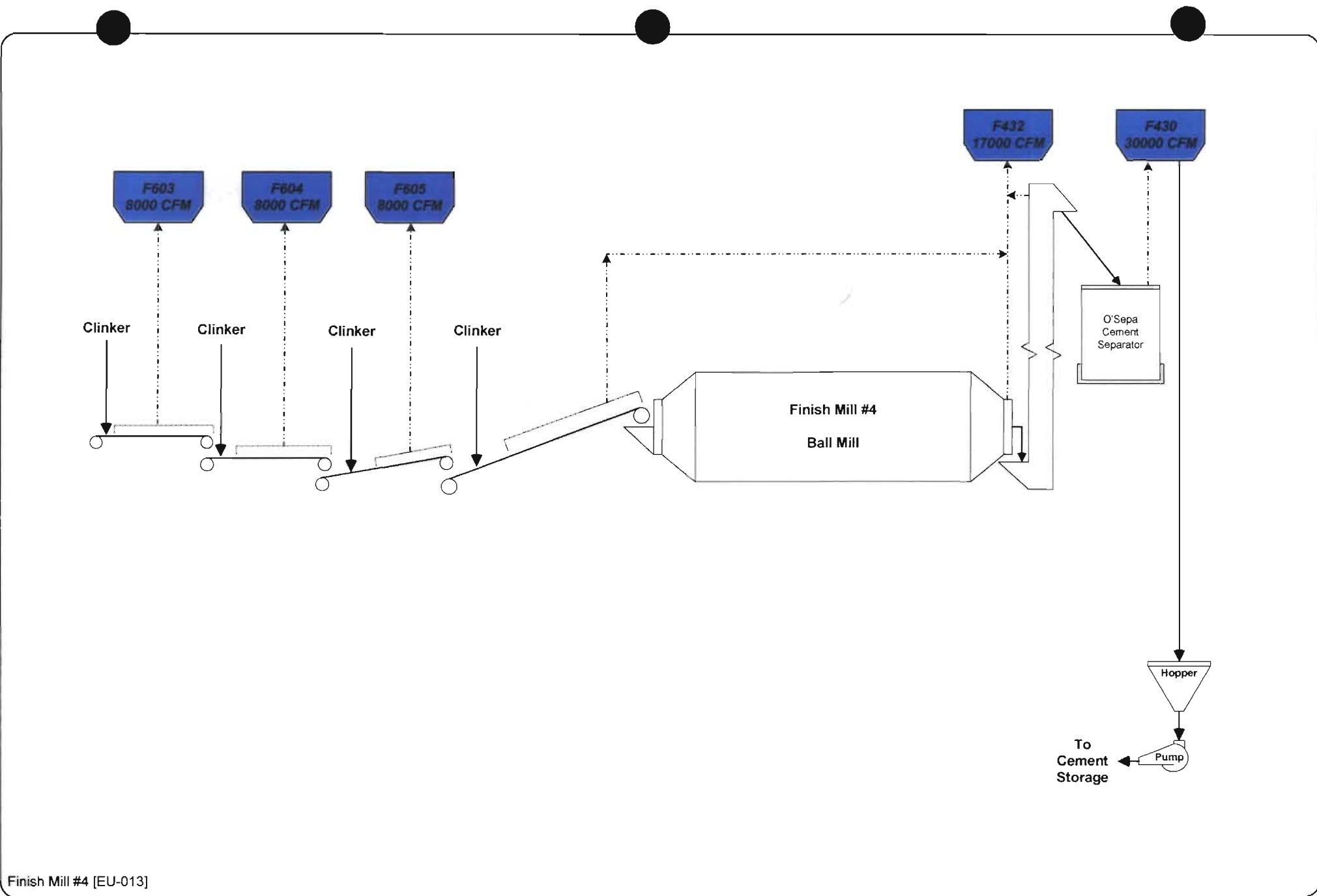
Attachment TM-EU3-11b
Process Flow Diagram

TITLE: PENNSUCO CEMENT

FILENAME: NEW PLOT PLANS.VSD/TM-EU3-11b

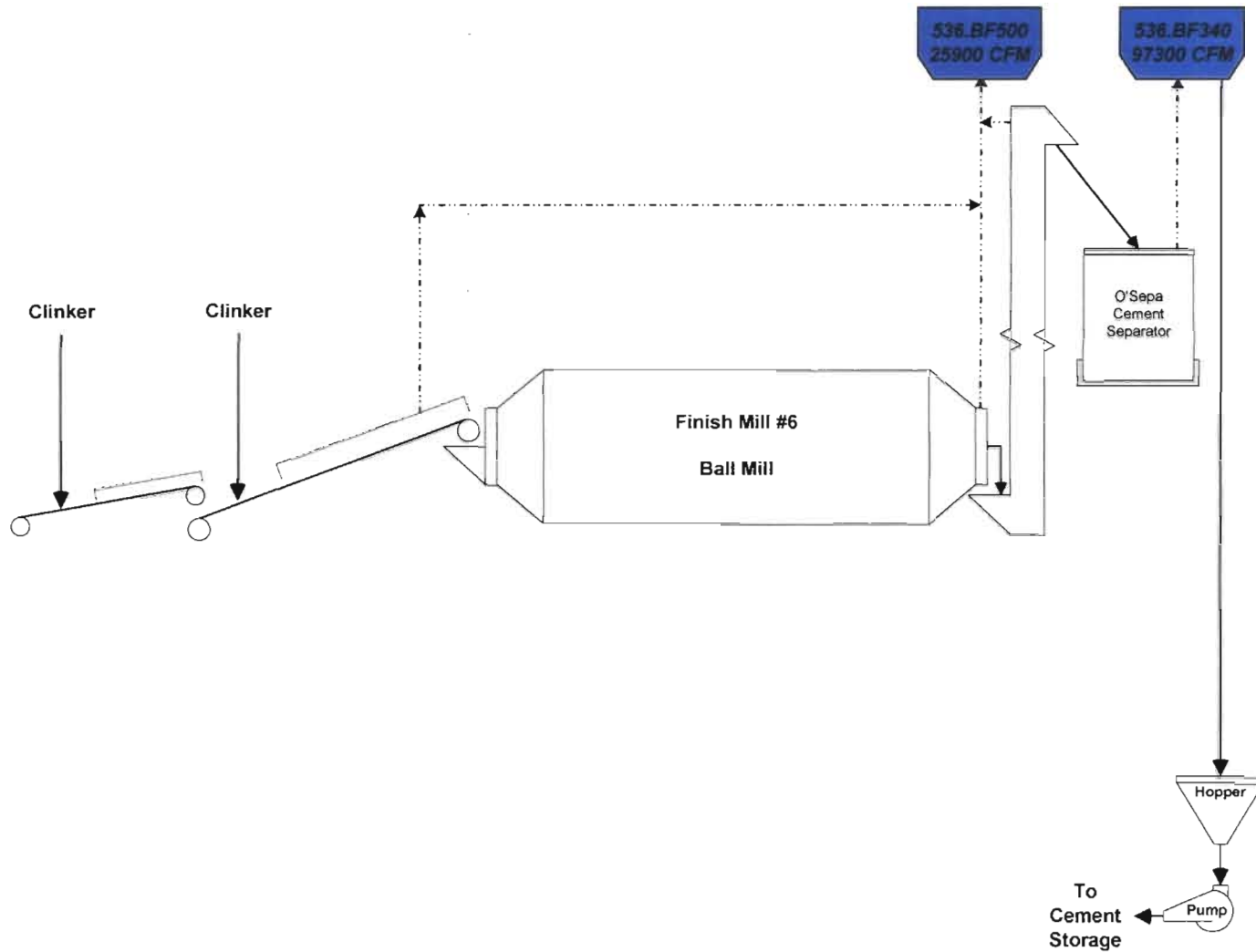
LAST REVISION DATE: 4/27/2005





Finish Mill #4 [EU-013]

DESCRIPTION Attachment TM-EU3-11c Process Flow Diagram	TITLE: PENNSUCO CEMENT	
	FILENAME: NEW PLOT PLANS VSD/TM-EU3-11c	
	LAST REVISION DATE: 4/27/2005	



Finish Mill #6 [EU-030]

DESCRIPTION

Attachment TM-EU3-11d
Process Flow Diagram

TITLE: PENNSUCO CEMENT

FILENAME: NEW PLOT PLANS VSD/TM-EU3-11d

LAST REVISION DATE: 4/27/2005



ATTACHMENT TM-EU3-I3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

Attachment TM-EU3-I3. Control Equipment Information for Finish Mill Nos. 1, 3, 4, and 6

Source ID	Baghouse			Flow Rate		Cloth Area	Air to
	ID No.	Manufacturer	Model No.	(acfm)	(dscfm)	(ft ²)	Cloth Ratio
Finish Mill No. 1	F113	Mikropul	16FF-10-20	11,800	--	2,100	5.6
Finish Mill No. 1	F130	Norblo	468 AMT	12,000	--	1,977	6.1
Finish Mill No. 3	F330	Norblo	702 AMT	20,000	--	9,477	2.1
Finish Mill No. 3	F313	Norblo	390 AMT	13,500	--	5,465	2.5
Finish Mill No. 3	533.BF340	Fuller	1110S12(6)	77,800	65,307	20,923	3.7
Finish Mill No. 4 (O-Sepa Cement Separator)	F432	Fuller	5 Zone #48	17,000	--	2,510	6.8
Finish Mill No. 4	F603	Mikropul	121S-10-20	8,000	--	1,424	5.6
Finish Mill No. 4	F604	Mikropul	121S-10-20	8,000	--	1,424	5.6
Finish Mill No. 4 (Belt Conveyor/Separator)	F605	Mikropul	645-10-30	4,000	--	753	5.3
Finish Mill No. 4 (Ball Mill/Mill Sweep)	F430	Fuller	6 Zone #96	30,000	--	6,028	5
Finish Mill No. 6 (Main)	531.BF01	Fuller	2M690S12(6)	97,300	80,905	34,683	2.8
Finish Mill No. 6 (Sweep)	531.BF02	Fuller	360S12(6)	25,900	21,536	6,786	3.8

ATTACHMENT TM-EU3-IV1

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT TM-EU3-IV1**LIST OF APPLICABLE REGULATIONS
FOR THE FINISH MILLS (EU ID NOS. 010, 012, 013, 030)**

62-296.320(4)(a) – Visible Emissions

40 CFR 63.1342 – NESHAPs Subpart LLL – Standards: General

40 CFR 63.1347 – NESHAPs Subpart LLL – Standards for Raw and Finish Mills

40 CFR 63.1348 – NESHAPs Subpart LLL – Material Handling Sources Opacity Limit

40 CFR 63.1349 – NESHAPs Subpart LLL – Performance Testing

40 CFR 63.1350 – NESHAPs Subpart LLL – Monitoring

40 CFR 63.1351 – NESHAPs Subpart LLL – Compliance Dates

40 CFR 63.1356 – NESHAPs Subpart LLL – Exemption from NSPS

40 CFR 63 – NESHAPs Subpart A – General Provisions

PERMITTEE:

Titan America
455 Fairway Drive
Deerfield Beach, Florida 33441

Permit No.	0250020-016-AC
Project:	Modify Modernization Project
SIC:	3241 Cement, Hydraulic
Expires:	October 31, 2005

Authorized Representative:
Hardy Johnson, President
Florida Division, Tarmac America

PROJECT AND LOCATION:

Re-issuance and modification of Air Construction Permit 0250020-010-AC issued on May 1, 2001 for modernization of the Titan America Pennsuco Cement Plant. This air construction permit reflects the final configuration and operating parameters of baghouses, finish mills and the coal mill.

The Titan America Pennsuco Cement Plant is located at 11000 NW 121 Way, Medley, Dade County. UTM coordinates are Zone 17; 562.8 km E; 2861.7 km N.

STATEMENT OF BASIS:

This air construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The above named permittee is authorized to construct/operate the facility in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

Attached appendices made a part of this permit:

Appendix GC Construction Permit General Conditions

Michael G. Cooke, Director
Division of Air Resource
Management

SECTION I. GENERAL INFORMATION

FACILITY DESCRIPTION

This facility consists of a dry process portland cement manufacturing plant which includes a coal handling system; raw feed system; kilns; coolers; finish mills; clinker and cement storage and handling systems; and a cement distribution system. The facility also consists of a non-metallic mineral processing plant, and ready-mix concrete block and batch plants, located adjacent to the portland cement manufacturing plant.

EMISSIONS UNITS

This permit addresses the following emissions units. Emission Units shown as stricken-through are no longer permitted to operate.

EMISSION UNIT NO.		EMISSION UNIT DESCRIPTION
Permit 0250020-016-AC	Permit 0250020-010-AC	
003	-	Coal Handling
004	-	Kiln No. 2
005	-	Cooler No. 2
006	-	Kiln No. 3
007	-	Cooler No. 3
008	-	Clinker Handling and Storage for Kiln No. 2
009	-	Clinker Handling and Storage for Kiln No. 3
010	-	Finish Mill No. 1
011	-	Finish Mill No. 2
012	003	Finish Mill No. 3
013	003	Finish Mill No. 4
014	004	Cement Storage Silos 1 through 12
015	004	Cement Distribution, Rail and Truck Loadout
016	004	Cement Packhouse
020	-	Slag Dryer
024	-	Insufflation
026	001	Coal Handling System
027	002	Clinker Handling and Storage
028	005	Raw Mill and Pyroprocessing System
029	006	Raw Material Handling
030	003	Finish Mill No. 6

REGULATORY CLASSIFICATION

Because potential emissions of at least one regulated pollutant exceed 100 tons per year, the existing facility is a Title V Source and major source of air pollution in accordance with Chapter 62-213, F.A.C. Regulated pollutants include pollutants such as nitrogen oxides (NO_x), particulate matter (PM/PM₁₀), and sulfur dioxide (SO₂).

In addition, this facility is a major source of hazardous air pollutants (HAPs), based upon potential emissions of hydrogen chlorides.

RELEVANT DOCUMENTS

The construction permit application 0250020-016-AC was received March 4, 2004. The last round of additional application information was received on February 8, 2005.

SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

This permit supersedes construction permit 0250020-010-AC, dated May 1, 2001. The specific conditions of the attached air construction permit 0250020-010-AC are incorporated into this air construction permit except for the changes indicated in each of the sections that follow.

Section II, Facility-Wide Specific Conditions A.1 through A.33 in Permit 0250020-010-AC dated May 1, 2001 are adopted in their entirety except for the amendments shown below:

1. Permitting Authority:

For this permit, the permitting authority is the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection (FDEP), at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and phone number (850)488-0114.

2. Completion of Construction: The permit expiration date is October 31, 2005.

3. Application for Title V Permit Revision: The Applicant's Title V Renewal application due April 25, 2005 shall include all operations described in this air construction permit.

4. Permanent Shut Down of Certain Equipment: The following equipment has been permanently shut down or was never built, or never operated. It shall remain permanently shut down as a condition of the operation of the plant modernization and operation of Kiln No. 5 and associated equipment.

- Kilns 1, 2, 3, and 4
- Coolers 1, 2, 3, and 4
- Finish Mills 2 and 5
- Clinker Handling and Storage for Kilns 2 and 3
- All slag dryer
- Insufflation of cement kiln dust

[Applicant Request - Section 62-212.400, F.A.C. To Avoid Exceeding Significant Emissions Rates]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Section III, Emission Units Specific Conditions B.0 through B.33 in Permit 0250020-010-AC dated May 1, 2001 are adopted in their entirety and modified as shown below. Additions are highlighted, and deletions are shown by strikethroughs.

B.0. Operational Requirements, Emissions Limitations and Performance Standards Attachments

~~“40CFR63, Subpart A” is incorporated by reference. These emissions unit shall comply with the 40 CFR 63 Subpart LLL - National Emissions Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry for Major Sources of HAPs, and 40 CFR 63, Subpart A - General Provisions for Subpart LLL - Portland Cement Plants~~

EMISSIONS UNIT NO. 026004 - COAL HANDLING SYSTEM

Operational Requirements

B.1 Hours of Operation. ~~These process~~ ~~This emissions unit~~ may not operate in excess of 7,884 hours per year except ~~the railcar fuel dump hopper, coal and petcoke feed bins and transfer equipment (and baghouses 2461.BF04130 and 2461.BF02230) which may not exceed 4,000 hours per year. The coal mill may be operated for 400 of its allowed 7,884 hours per year when the Kiln/Cooler/Raw Mill is not operating.~~

~~[Requested by permittee in application received November 14, 2000 Applicant request; Permit 0250020-010-AC]~~

B.2 Coal/Petroleum Coke Maximum Usage: The maximum combined usage of coal and petroleum coke is 30 TPH on a 24-hour block average and 190,000 TPY. The maximum petroleum coke usage rate shall not exceed 20 TPH on a 24-hour block average. ~~Daily records of usage must be kept on site and retained for a minimum of 5 years.~~

~~[Rule 62-210.200 & 62-4.070(3) F.A.C. established by permittee in application received November 14, 2000 Applicant request; Permit 0250020-010-AC; Rule 62-4.070(3); F.A.C.]~~

B.3 Particulate and Fugitive Emissions: Particulate and fugitive emissions from coal handling facilities shall be minimized by following the procedures listed below:

- (1) All conveyers and transfer points shall be enclosed or covered to preclude particulate emissions (except those directly associated with coal stacking/reclaiming).
- (2) Coal storage piles shall be shaped, compacted and oriented to minimize wind erosion.
- (3) Water sprays or chemical wetting agents and stabilizers shall be applied to storage piles, handling equipment, etc., during dry periods as necessary to all facilities to maintain an opacity of less than 20 percent at the property line for fugitive emission sources.

~~[Rule 62-296.320(4)(c), F.A.C.; 62-4.070(3); Permit 0250020-010-AC]~~

Emissions Limitations and Performance Standards

B.4 Design Specifications and Particulate Matter Emissions Limits:

- a. The baghouses for the coal handling system have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits listed in the following table:

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Coal Handling System Process Unit	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/dscf)	Flow Rate acfm (dscfm)	Cloth Area (ft²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM Emissions (lb/hr)	PM Emissions Limits (TPY)
Dump Hopper (Transfer)	2461-BF13001 FLS Airtech 36TAX10FM	0.0095 0.01	14002,700 (1339)2,700	Pending 469	Pending 3.0:1	0.39	0.1123	0.2246
Conveyors (2) (Transfer) & Coal and Petroleum Coke Feed Bins	2461-BF23002 FLS Airtech 36TAX10FM	0.0095 0.01	14006,400 (1339)6,400	Pending 469	Pending 3.0:1	0.92	0.1155	0.22 1.10
Coal Mill *	461-BF30001 Pending Pending	0.01	54,500 (45,245) 43,600	Pending	Pending	12.37	3.8874	0.78 14.73
Coke/Petroleum Coke (Transfer) Surge Bin (Feeder)	461-BF75002 FLS Airtech 800/7	0.0095 0.01	294800 (243)665	75 Pending	3.9:1 Pending	0.19	0.026	0.0822
Coal (Transfer) Surge Bin (Feeder)	461-BF65003 FLS Airtech 800/7	0.0095 0.01	294800 (243)665	75 Pending	3.9:1 Pending	0.19	0.026	0.0822
Coal Mill Feed	461-BF350	0.01	5,500 (5,261)	1575 Pending	3.5:1 Pending		0.45	1.78
Total						14.06	4.59 4.64	0.15 16.73

*The emission limit of 0.125 lb/ton of dry clinker for the Main Stack for the Raw Mill and Pyroprocessing includes emission from the Coal Mill which are also vented to the atmosphere through the Main Stack. So that Tarmac may operate the coal mill when the Raw Mill and Pyroprocessing are down, 400 hours of emissions (1.78 TPY) from the Coal Mill operating alone are included here. The emissions associated with the additional 7484 hours of operation for the coal mill are included with the potential emissions for the Main Stack.

Notes:

- b.** All of the above process units equipment, except for the dump hopper with baghouse 2461-BF13001, are subject to 40 CFR 60, Subpart Y, NSPS for Coal Preparation Plants.
- c.** The pending information listed in this table will be submitted to the DERM Air Facilities Section within 30 days of issuance of this final permit, at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.
- Emissions of Particulate Matter from each of the baghouses on the coal handling system shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf). Assume PM-10 = 84% of PM for all baghouses. [Requested by Permittee in application received November 14, 2000.]
- d.** Initial and annual compliance testing requirements for PM emissions from all emissions points listed above, except 461-BF30001 serving the Coal Mill, are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5.

[Rule 62-297.620(4), F.A.C. Permit 0250020-010-AC Applicant request to Escape BACT]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.5 Coal Handling Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

	Baghouse Id. No.	Visible Emissions Limit	Rule Applicability
Dump Hopper (Transfer)	2461-BF13001	20% with PM testing 5% w/out PM testing	Rule 62-296.320(4)(b)1, F.A.C. Rule 62-297.620(4), F.A.C.
Conveyors (2) Coal & Petroleum Coke Feed Bins (shared with conveyors)	2461-BF23002	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.
Coal Mill Dust Collector*	461-BF30001	10% ^(*)	40 CFR 63.1345
Coke/Coal Surge Bins	461-BF75002	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.
	461-BF65003	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.
Coal Mill Feed	461-BF350	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.

Note: *This emissions unit discharges to the common (main) stack. The Clinker Cooler which is limited to 10% opacity, discharges to the common (main) stack and therefore determines the opacity limit for this emissions unit. [40 CFR 63.1345(a)(2)]

EMISSIONS UNIT NO. 027002 – CLINKER HANDLING & STORAGE SYSTEM

Operational Requirements

B.6 Hours of Operation: These process This emissions units may not operate in excess of the following:

Process Unit	Baghouse ID No.	Hours Per Year
Clinker Silos 21-23 & 26-28	F633	8,760
Clinker transfer conveyors from cooler	441-BF54001	7,884
Clinker Silos	481-BF14001	7,884
Clinker Transfer Conveyors	481-BF54002	8,760
Clinker Off-spec Bins	481-BF33003	8,760
Clinker transfer	481-BF640	8,760
Clinker transfer	481-BF730	8,760
Clinker transfer	481-BF930	8,760
Clinker transfer	K347*	0
Clinker transfer	K447*	0

*Clinker transfer baghouses K347 and K447 have been removed.

[Requested by permittee in application received November 14, 2000 Applicant request Permit 0250020-010-AC]

B.7 Clinker Handling & Storage Throughput Limits: The clinker handling and storage maximum hourly and annual throughput rates shall not exceed 320 TPH on a 24-hour block average or 1,942,500 TPY, respectively. [Applicant request, Permit 0250020-010-AC, Rules 62-4.070(3)]
[Requested by permittee in application received November 14, 2000 Applicant request:]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Emissions Limitations and Performance Standards

B.8 Design Specifications and Particulate Matter Emissions Limits:

a) The baghouses for the clinker handling and storage system have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits shown in the following table:

System Process Units	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/dscf)	Flow Rate acfm (dscfm)	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM Emissions Limits	
							(lb/hr)	(TPY)
Clinker Silos 21, 23, & 26-28	E633	0.01 (gr/acf)	6,000				0.51	2.25
Clinker Transfer conveyors Burner Building from cooler	441.BF54004 FLS Airtech 100C10	0.0095 0.04	4,600(3,000) (3,421)2,494	1302 Pending	3.5:1 Pending	0.74	0.284	1.10 0.84
Clinker Silo	481.BF14004 FLS Airtech 196C10	0.0095 0.04	10,12,000 (8,924)8,315	2552 Pending	4.7:1 Pending	2.36	0.734	2.864
Clinker Transfer Conveyors	481.BF54002 FLS Airtech 100C10	0.0095 0.04	4,700(3,000) (3,495)2,494	1302 Pending	3.6:1 Pending	0.79	0.284	1.25 0.94
Clinker Off-spec Bins	481.BF33003 FLS Airtech 100C10	0.0095 0.04	6,100(5,000) (4,536)4,157	1302 Pending	4.7:1 Pending	1.34	0.376	1.62 1.56
Clinker transfer	481.BF640	0.0095	4,700 (3,495)	1302	3.6:1		0.28	1.25
Clinker transfer	481.BF730	0.0095	18,700 (13,906)	3958	4.7:1		1.13	4.96
Clinker transfer	481.BF930	0.0095	15,000 (11,155)	3958	3.8:1		0.91	3.93
Total						5.17	1.50	19.26 6.15

Notes:

b) All the above silos and bins equipment are subject to 40 CFR 63 Subpart LLL, NESHAPS for Portland Cement Manufacturing Industry.

- The pending information listed in this table will be submitted to the DERM Air Facilities Section at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.
- Grain loading of 0.01 gr/dscf proposed permit limits for all the above baghouses and assume PM10-10 = 84% of PM for all baghouses. [Requested by Permittee in application Received November 14, 2000]

c) Initial and annual compliance testing requirements for PM emissions from all emissions points listed above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C.]

[Permit 0250020-010-AC, Applicant request to Escape BACT]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.9 Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

System Process Unit	Baghouse Id. No.	Visible Emissions Limit	Rule Applicability
Clinker Silos 21-23 & 26-28	F633	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), F.A.C.
Clinker Transfer Conveyors Burner Building from cooler	441.BF54004	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker Silos	481.BF14004	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker Transfer Conveyors	481.BF54002	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker Off-spec Bins	481-BF33003	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker transfer	481.BF640	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), F.A.C.
Clinker transfer	481.BF730	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), F.A.C.
Clinker transfer	481.BF930	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), F.A.C.

[Permit 0250020-010-AC; Rule 62-4.070(3), F.A.C., 40 CFR 63.1348]

EMISSIONS UNITS NOS. 003 010, 012, 013, 014 and 030 – FINISH MILLS

Operational Requirements

B.10 Hours of Operation: These emissions units may operate continuously, i.e., 7,884 8,760 hours per year. [Requested by permittee in application received November 14, 2000 Applicant request received February 8, 2005.]

B.11 Finish Mill Process Rates: The maximum total hourly process rate of cement is 334359.0 TPH on a 24-hour block average. This is a total of the individual process rates listed below:

Finish Mill	Baghouses	Process Rate (TPH)
No. 1	F113/F130/F330	25
No. 3	533.BF340 F-313 / F-330 / F-332	84
No. 4	F-430 / F-432 / F-603 / F-604 / F-605	140
No. 6	531.BF01 / 531.BF02	110
Total		334359

The owner or operator shall record all hourly process rates, and maintain records for a minimum of 5 years.

[Applicant request received February 8, 2005; Permit 0250020-010-AC; Rules 62-4.070(3), and 62-213.440, F.A.C.] [Established by Permittee in application received November 14, 2000.]

Emissions Limitations and Performance Standards

B.12 Design Specifications and Particulate Matter Emissions Limits:

a. The baghouses for the finish mills have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits shown in the following table:

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

System Emissions Unit	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/acf)	Flow Rate acfm dscfm	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM/PM ₁₀ Emissions Limits	
							(lb/hr)	(TPY)
Finish Mill No. 1	F-113 Mikropul 16FR-10-20	0.01	11,800	2,100	5.6		1.01	3.99
Finish Mill No. 1	F-130 Norbld 468 AMT	0.01	12,000	1,977	6.1		1.03	4.05
Finish Mill No. 3	F-330 Norblo 702 AMT	0.01	20,000	9,477	7.1	6.34	1.71	6.76 7.51
Finish Mill No. 3	F-332 Norblo 390 AMT	0.01	13,500	5,465	2.5	4.26	1.16	4.56 5.07
Finish Mill No. 3 O-Sepa Cement Separator	533.BF340 F-313 Mikropul 196S-10-20	0.0095 gr/dscf 0.01	77,800 (65,307 dscfm) 8,000	2,300 Pending	3.5 Pending	2.52	5.32 0.69	20.96 3.00
Finish Mill No. 4 Belt conveyor/ Separator	F-432 Fuller 5 zone #48	0.01	17,000	2,510	6.8	5.36	1.46	5.74 6.38
Finish Mill No. 4 Clinker/Gypsum Conveyor	F-605 Mikropul 645-10-30	0.01	4,000	753	5.3	4.26	0.34	1.35 1.50
Finish Mill No. 4 Clinker/Gypsum Conveyor	F-603 Mikropul 121S-10-20	0.01	8,000	1,424	5.6	2.52	0.69	2.70 3.00
Finish Mill No. 4 Ball Mill/Mill Sweep	F-430 Fuller 6 zone #96	0.01	30,000	6,028	5.0	9.46	2.57	10.14 11.26
Finish Mill No. 4 Clinker/Gypsum Conveyor	F-604 Mikropul 121S-10-20	0.01	8,000	1,424	5.6	2.52	0.69	2.70 3.00
Finish Mill No. 6 Main	531.BF01 Pending Pending	0.0095 0.01 (gr/dscf)	97,300 (80,905 dscfm)	Pending	Pending	25.51	6.5993	25.97 30.37
Finish Mill No. 6 Sweep	531.BF02 Pending Pending	0.0095 0.01 (gr/dscf)	25,900 (21,536 dscfm)	Pending	Pending	6.79	1.7585	6.91 8.09
Total						66.52	18.09 24.31	79.19 95.85

Notes:

- Finish Mill Nos. 3 & 6 Emission Limits of 0.01 gr/acf, lb/hr, were requested by Permittee in application received November 14, 2000.

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

b. Initial testing to demonstrate compliance with the PM limits established above, shall be conducted only for units F-330, ~~533.BF340~~, F-430, 531.BF01, and 531.BF02. All subsequent compliance testing for PM emissions from the emission points in the table above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5.

c. The pending information listed in this table will be submitted to the DERM Air Facilities Section ~~within 30 days of issuance of this final permit~~ at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.

- Emissions Limits for Finish Mill No. 4 are based on PSD-FL-236 dated July 1, 1998; and Permittee request in application received November 14, 2000.
- Finish Mill Nos. 3 & 4 are existing systems. Finish Mill No. 6 is a new system.

~~[Applicant request to Escape BACT, Permit 0250020-010-AC, and Rule 62-297.620(4), F.A.C.]~~

B.13 Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

Emission Unit	Baghouse Id. No.	Visible Emissions Limits	Rule Applicability
Finish Mill No. 1	F-113	10%	40 CFR 63.1347
	F-130		Rule 62-297.620(4), F.A.C.
Finish Mill No. 3	533.BF340 F-313	10% with initial PM testing 5% thereafter	40 CFR 63.1347 Rule 62-297.620(4), F.A.C.
	F-330	10% with initial PM testing 5% thereafter	40 CFR 63.1347 Rule 62-297.620(4), F.A.C.
	F-332	5%	Rule 62-297.620(4), F.A.C.
Finish Mill No. 4	F-430	5%	PSD-FL-236
	F-432		
	F-603		
	F-604		
	F-605		
Finish Mill No. 6	531.BF01	10% with initial PM testing 5% thereafter	40 CFR 63.1347
	531.BF02	5% thereafter	Rule 62-297.620(4), F.A.C.

~~[Applicant request, Permit 0250020-010-AC, and Permit PSD-FL-236]~~

EMISSIONS UNITS NOS. 004014/016/015 – CEMENT STORAGE SILOS/ PACKHOUSE/ LOADOUT

Operational Requirements

B.14. Hours of Operation. These emissions units may operate continuously, i.e., 8,760 hours per year, except for the packhouse which shall not exceed 4,000 hours of operation per year.

~~[Requested by applicant permittee in application received November 14, 2000; Permit 0250020-010-AC]~~

B.15. Cement Storage Silo/Packhouse/Loadout Process and Production Design Specifications: The maximum process input rate to each cement silo and loadout operation is 500 TPH on a 24-hour block average. The maximum production rate of cement in the Packhouse is 85 TPH on a 24-hour block average. ~~[Permit AC13-21098 dated November 2, 1979; and Permit 0250020-010-AC]~~

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.16. Design Specifications and Particulate Matter Emissions Limits:

1 The baghouses for the Cement Storage/Packhouse/Loadout system have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the amounts shown in the following table:

System	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/acf)	Flow Rate acfm {dscfm}	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	PM/PM10 Emissions Limits	
							(lbs/hr)	(TPY)
Cement Silos 1-6	F-511 Fuller 2 zone #78	0.01	18,000	1,625	11.1	5.68	1.54	6.76
Cement Silos 7-9	F-512 Norblo 156 AMT	0.01	10,000	2,142	4.7	3.15	0.86	3.75
Cement Silo 10	F-513 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Cement Silo 11	F-514 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Cement Silo 12	F-515 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Bulk Loadout Unit 1 (Rail/Truck)	B-110 Norblo 120 AMT	0.01	3,000	1,650	1.8	0.95	0.26	1.13
Bulk Loadout Unit 2 (Truck)	B-210 Norblo 120 AMT	0.01	3,000	1,650	1.8	0.95	0.26	1.13
Bulk Loadout Unit 3 Line 1	B-372 Mikropul 36S-8-30-C	0.01	2,000	340	5.9	0.63	0.17	0.75
Bulk Loadout Unit 3 Line 2	B-374 Mikropul 36S-8-30-C	0.01	2,000	340	5.9	0.63	0.17	0.75
Bulk Loadout Unit 3 Line 3	B-382 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Packhouse ^(a)	B-621	0.01	23,400 {23,400}	Pending	Pending	3.37	1.19	5.20
Total						21.68	6.99	25.80

Notes: ^(a) Emissions reflect permit limits established in Permit No. PSD-FL-028 dated March 19, 1980

D Initial and annual compliance testing requirements for PM emissions from all emissions points listed above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C.]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

3 The pending information listed in this table will be submitted to the DERM Air Facilities Section ~~within 30 days of issuance of this final permit~~ at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.

Emissions reflect permit limits established in PSD-FL-028 dated March 19, 1980. [PSD-FL-028 dated March 19, 1980 and Requested by Permittee in application received November 14, 2000] [PSD-FL-028 dated March 19, 1980; ~~Applicant requests dated~~ Requested by Permittee in application Received November 14, 2000, ~~and February 8, 2005~~]

B.17. Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

Cement Silos 1-6	F-511	10%	40 CFR 63.1348
Cement Silos 7-9	F-512	5%	PSD-FL-236
Cement Silos 10, 11, 12	F-513	5%	AC13-21098
	F-514		
	F-515		
Bulk Loadout Unit 1	B-110	10%	PSD-FL-236
Bulk Loadout Unit 2	B-210	10%	PSD-FL-236
Bulk Loadout Unit 3 Line 1	B-372	5%	AC13-21098
Bulk Loadout Unit 3 Line 2	B-374	5%	AC13-21098
Bulk Loadout Unit 3 Line 3	B-382	5%	AC13-21098
Packhouse	Pending	10%	40-CFR-63.1348
	B-621	5%	PSD-FL-028

EMISSIONS UNIT NO. 028005 - RAW MILL/ AND PYROPROCESSING SYSTEM

Operational Requirements

B.18 Hours of Operation: This emissions unit may not operate in excess of 7,884 hours per year except for the CF blend silo (and baghouse 341.BF3504) which may operate 8760 hours per year. [Requested by permittee in application received November 14, 2000 ~~Applicant request, Permit 0250020-010-AC~~]

B.19 Raw Mill/Pyroprocessing System Unit-Production Limits: The maximum production of clinker shall not exceed 250 TPH on a 24-hour block average and 1,642,500 TPY. [Rule 62-210.200 (228)(PTE), F.A.C.; and Application received November 14, 2000; ~~Applicant request, Permit 0250020-010-AC~~]

B.20 Operating Limits for In-line kiln/raw mills.

- (a) The owner or operator of a in-line kiln/raw mill subject to a D/F emissions limitation under 40 CFR 63.1343 must operate the in-line kiln/raw mill such that the temperature of the gas at the inlet to the kiln Particulate Matter control device (PMCD) does not exceed the applicable temperature limit specified in the following paragraph ~~(b). The owner or operator of an in line~~

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

kiln/raw mill subject to a D/F emission limitation under 40 CFR 63.1343, must operate the in-line kiln/raw mill such that:

(1) When the raw mill of the in-line kiln/raw mill is operating, the applicable temperature limit for the main in-line/raw mill exhaust, specified in the following paragraph (b), and established during the performance test when the raw mill was operating, is not exceeded.

(2) When the raw mill of the in-line kiln/raw mill is not operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, specified in the following paragraph (b), and established during the performance test when the raw mill was not operating, is not exceeded.

(b) The temperature limit for affected sources meeting the limits of paragraph (a) above is determined in accordance with the following: the run average temperature must be calculated for each run, and the average of the run average temperature must be determined and included in the performance test report and will determine the applicable temperature limit.

(c), (d), and (e) are deleted because the owner or operator do not employ carbon injection to control dioxin/furan.

[40 CFR 63.1344(a) & (b), and 63.1349(b)(3)(iv); Permit 0250020-010-AC]

B.21 Methods of Operation – Fuels:

Raw Mill and Pyroprocessing System Unit	Allowable Fuels
	Natural Gas, Bituminous Coal, Petroleum Coke, No. 2 Fuel Oil with used oil blend and No. 6 Fuel Oil with used oil blend. Fuel oil includes on-spec used oil.*

Note:

a. * "Non-hazardous Non-specification" used oil is defined as each used oil delivery that meets the 40 CFR 279 (Standards for the Management of Used Oil) specifications listed below. Used oil that does not meet all of the following specifications is considered "off-specification" oil and shall not be fired.

Constituent/Property	Allowable Level
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000-4000 ppm maximum*
PCBs	50 ppm maximum
Flash Point	100 °F minimum

The above parameters shall be as determined by approved methods specified in EPA Publication SW-846 (Test Methods for Evaluating Solid Waste, Physical/Chemical Methods).

b. *Analysis of used oil fuel* The permittee may determine that the used oil to be burned for energy recovery meets the fuel specifications of §279.11 by performing analyses, or obtaining copies of analyses or other information, documenting that the used oil fuel meets the specifications.

c. *Record retention* The permittee must keep copies of analyses of the used oil (or other information used to make the determination) for three years.

[40 CFR 279.72; Permit 0250020-010-AC]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

*Permitting note: 40 CFR 279.10(b)(1) (ii) *Rebuttable presumption for used oil*: Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in subpart D of 40 CFR part 261. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example by using an analytical method from SW-846, Edition III) to show that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in appendix VIII of 40 CFR part 261. EPA Publication SW-846, Third Edition, is available from the Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954, (202) 512-1800 (document number 955-001-00000-1). If successfully rebutted for used oil up to 4000 ppm total halogens, used oil up to 4000 ppm maximum total halogens may be fired.

Emissions Limitations and Performance Standards

B.22 Design Specifications and Particulate Matter Emissions Limits:

- a. The Particulate Matter emissions from the Raw Mill/Pyroprocessing system are controlled by baghouses with the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits shown in the following table on the following page:
- b. Grain loading of 0.0095-0.01 gr/dscf proposed permit limits for all new baghouses emissions points listed in table above except main stack and assume $PM_{10} = 84\%$ of PM for main stack and 100% for all baghouses other emissions points listed in table above. [Requested by Permittee in application Received November 14, 2000 Applicant request to Escape BACT 40 CFR 63.1343 and 63.1345, Permit 0250020-010-AC]
- c. Initial and annual compliance testing requirements for PM emissions limits from all emissions points listed in table above, except limit for baghouse 331-BF200-01 which exhausts to the main/common stack, are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C., Permit 0250020-010-AC]
- The pending information listed in this table will be submitted to the DERM Air Facilities Section at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.
- d. All the above process units are also subject to 40 CFR 63 Subpart LLL, NESHAPS for Portland Cement Manufacturing Industry.

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Particulate Matter from Raw Mill/Pyroprocessing

Raw Mill/ Pyroprocessing System Process Unit	Baghouse ID Manufacturer Model No.	Grain Loading Limit gr/dscf	Flow Rate acfm {dscfm}	Cloth Area ft ²	Air to Cloth Ratio	Potential PM ₁₀₋₁₀ Emissions Limit TPY	Potential PM Emissions Limits	
							lb/hr	TPY
Kiln/Cooler/ Raw Mill (and Coal Mill when operated simultaneously) Main Stack	331.BF20004 FLS Airtech M5C690D16(16)	0.125*	515,000	173,397 Pending	3.0:1 Pending	147.00	50.0 (instantaneous) 53.10 (44.4 annual average for 7884 hrs/year)	175.00
			486,000 (360,637) 392,367					
Kiln Dust Bin Kiln-Dust	331.BF74002 FLS Airtech 100C10	0.0095 0.01	4,250	1302 Pending	3.3:1 Pending	0.95 1.18	0.24 0.36	0.95 1.41
			6,800 (2,953) 4,175					
C# Blend Silo	341.BF35004 FLS Airtech 64C10	0.0095 0.01	3,760	833 Pending	4.5:1 Pending	1.11 1.64	0.25 0.44	1.11 1.95
			6,250 (3,112) 5,189					
Raw Meal Preheat Calciner Tower	351.BF41004 FLS Airtech 64C10	0.0095 0.01	4,000	833 Pending	4.8:1 Pending	1.06 1.46	0.27 0.44	1.06 1.74
			6,200 (3,310) 5,147					
Raw Meal Preheat Calciner Tower	351.BF44002 FLS Airtech 100C10	0.0095 0.01	4,760	1320 Pending	3.7:1 Pending	1.26 0.71	0.32 0.21	1.26 0.84
			3,000 (3,939) 2,491					
Raw Meal Preheat Calciner Tower	351.BF47003 FLS Airtech 100C10	0.0095 0.01	4,100	1302 Pending	3.2:1 Pending	1.09 2.45	0.28 0.74	1.09 2.92
			10,400 (3,409) 8,634					
Kiln Dust Truck Loadout	331.BF645	0.0095	3,500 (2,910)			0.93	0.24	0.93
Total						153.41 154.44	51.60 55.29	181.41 183.86

Notes: (*) Main Stack PM Emissions Limit is 0.125 lbs/ton of kiln feed.

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.23 SO₂, NO_x, CO, VOC, and SAM Emission Limits: The emissions from the Raw Mill/Pyroprocessing system shall not exceed the limits shown in the following table:

Pollutant	Allowable Emissions		Emissions Limits in lbs./ton of clinker		Monitors
	12-month rolling average in TPY (a)	Lbs./hr 24-hr average	24-hr avg. @208 TPH of clinker production (5)	24-hr average @250 TPH of clinker production	
SO ₂	806	320	1.54	1.28	CEM
NO _x	1953	720	3.46	2.88	CEM
CO (b)	1457	576	2.76	2.30	Process
VOC	155	40	0.19	0.16	CEM
SAM	8.68	2.24	0.009	0.009	-

Notes:

(a) The 12-month rolling average in TPY would be the average of the daily values for the current month and the preceding 11 months. The averages shall be based on the operating days or hours, and shall exclude days or hours in which the plant is not operating.

(b) The averaging time for CO corresponds to the required length of sampling for the initial and subsequent emission tests.

[Rules 62-4.070(3) and 62-212.400, F.A.C. Permit 0250020-010-AC]

B.24 PM/PM₁₀ and Dioxins/Furans Main Stack Emissions:

Pollutant	Allowable Emissions		Emissions		
	TPY	lbs./hr	Limit	Unit	Averaging Time
PM	175	53.1	0.125	lbs./ton of dry kiln feed	3 hours
PM ₁₀	147	42.0	0.105	lbs./ton of dry kiln feed	3 hours
Dioxins/Furans			0.20 (or 0.40 when the average of the performance test run average PM control device inlet temperature is 204°C or less) (Corrected to 7% O ₂)	ng TEQ/dscm	3 hours

Notes: The averaging times for PM and PM₁₀ correspond to the required length of sampling for the initial and subsequent emissions tests.

[Rules 62-4.070(3) and 62-212.400, F.A.C. 40 CFR 63.1343; Permit 0250020-010-AC]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.25. **Sulfur Dioxide Emissions:** Emissions of SO₂ shall not exceed 1.2 lb/MMBtu heat input when solid fuel is fired, or 0.8 lb/MMBtu heat input when liquid fuel is fired, based on a 24 hour average.

[Miami-Dade County Code, Section 24-17(2)(a); ~~Permit 0250020-010-AC~~]

B.26. **Mercury and Lead into the Pyroprocessing System Limited:** The baseline potential emissions for mercury and lead, as stated in the Application received June 30, 1998, are 30 lbs/year and 94 lbs/year, respectively. An increase in mercury and lead emissions of 200 and 1,200 pounds, respectively, above the previously stated baseline emissions per consecutive 12-month period shall subject this facility to Prevention of Significant Deterioration (PSD) Review. [Rules 62-4.070(3) and 62-212.400, F.A.C.; ~~Permit 0250020-010-AC~~]

B.27. **Pursuant to 40 CFR 63.1343 Standards for Kilns and In-line Kiln/raw Mills:**

- (a) *General.* The provisions in this section apply to each in-line kiln/raw mill.
- (b) No owner or operator of a inline kiln/raw mill shall cause to be discharged into the atmosphere from these affected sources any gases which:
 - (1) Contain particulate matter (PM) in excess of 0.15 kg per Mg (0.30 lb per ton) of feed (dry basis) to the kiln.
 - (2) Exhibit opacity greater than 20 percent.
 - (3) Contain D/F in excess of:
 - (i) 0.20 ng per dscm (8.7×10^{-11} gr per dscf)(TEQ) corrected to seven percent oxygen; or
 - (ii) 0.40 ng per dscm (1.7×10^{-10} gr per dscf)(TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 204 °C (400 °F) or less.

[40 CFR 63.1343(a) & (b); ~~Permit 0250020-010-AC~~]

B.28 **Engineering Design Capacities For The Raw Mill And Pyroprocessing System Unit:**

Process Units Sources	Maximum Capacity (MMBtu/hr heat input)
Raw Mill Heat Input	105
Preheater/Calciner Heat Input	385
Kiln Heat Input	290
Total System Heat Input	675

[Application received November 14, 2000 Applicant Request; ~~Permit 0250020-010-AC~~]

B.29 **Visible Emissions Limits:** The baghouses listed below shall not equal or exceed the following visible emissions limits:

Emissions Point	Baghouse Id. No.	Visible Emissions Limit	Permit/Rule Applicability
Main Dust Collector exhausts to Main/Common Stack	331.BF01200	10%*	40 CFR 63.1342
Cement Kiln Dust Bin	331.BF02740		
Blending & Storage System	341.BF01350	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297/620(4) F.A.C.
	351.BF02410		
	351.BF02440		
	351.BF03470		

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Note: (*) This emissions unit discharges to the common (main) stack. The Clinker Cooler which is limited to 10% opacity, discharges to the common (main) stack and therefore determines the opacity limit for this emissions unit. ~~The raw mill is also limited to 10% opacity~~ [40 CFR 63.1345(a)(2) and 63.1347; Permit 0250020-010-AC; Permit application 0250020-016-AC]

EMISSIONS UNIT NO. 029006 – RAW MATERIAL HANDLING

Operational Requirements

B.30. **Hours of Operation:** This emissions unit may not operate in excess of 7,884 hours per year, except for baghouse 232.BF01 for the lime/gypsum silos (existing silos) which shall not exceed 4,000 hours of operation per year. [Requested by permittee in application received November 14, 2000 Applicant request, Permit 0250020-010-AC]

B.31. **Raw Material Handling System Throughput Specification:** The maximum dry throughput rate is shown in the following table:

Source Description	Throughput Maximum (TPY)
Raw Material Handling System	3,260,000 (dry)

The owner or operator shall record all throughput rates on a rolling 12-month basis and maintain records for a minimum of 5 years. [Applicant request, Permit 0250020-010-AC; Rules 62.4.070(3), and 62.213.440; F.A.C.]

Emissions Limitations and Performance Standards

B.32. **Design Specifications and Particulate Matter Emissions Limits:**

a) The Particulate Matter emissions from the Raw Material Handling system are controlled by baghouses with the following or equivalent design specifications:

System Process Units	Baghouse ID/Manufacturer Model No.	Grain Loading Limit gr/dscf	Flow Rate acfm [dscfm]	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM/PM ₁₀ Emissions Limits	
							(lb/hr)	(TPY)
Lime/Gyp Silos	232.BF01 Pending Pending	0.0095 0.01	5,170 [5,170]	Pending	Pending	0.74	0.42 0.44	0.84 0.89
Additives Silo 1	311.BF65004 Pending Pending	0.0095 0.01	8,500 11,000 [8,130 11,000]	Pending	Pending	3.12	0.66 0.94	2.61 3.72
Additives Silo 2	311.BF75002 Pending Pending	0.0095 0.01	7,750 6,050 [7,413 4,840]	Pending	Pending	1.37	0.60 0.41	2.38 1.64
Additives Silo 3	311.BF47003 Pending Pending	0.0095 0.01	10,800 10,000 [10,039 10,000]	Pending	Pending	2.84	0.82 0.86	3.22 3.38
Additives Silo 4	311.BF95004 Pending Pending	0.0095 0.01	11,700 10,000 [10,876 10,000]	Pending	Pending	2.84	0.89 0.86	3.49 3.38
Total						10.91	3.39 3.51	12.54 13.01

Notes: Grain loading of 0.01 gr/dscf proposed permit limits for all baghouses listed above and assume PM-10 = 84% of PM. [Requested by Permittee in application Received November 14, 2000]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

b Initial and annual compliance testing requirements for PM emissions from all emissions points listed above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C.]

c The pending information listed in this table will be submitted to the DERM Air Facilities Section ~~within 30 days of issuance of this final permit~~ at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.

[Permit 0250020-010-AC]

B.33. Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

Process unit	Baghouse Id. No.	Visible Emissions Limit	Rule Applicability
Lime/Gyp Silos	232.BF01	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4) F.A.C.
Additives Silo 1	311.BF01		
Additives Silo 2	311.BF02		
Additives Silo 3	311.BF03		
Additives Silo 4	311.BF04		

[Permit 0250020-010-AC]

DRAFT

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Section III, Emissions Units Specific Conditions C.0 through C.26 in Permit 0250020-010-AC dated May 1, 2001 are adopted in their entirety. Certain conditions of that permit are modified as shown below. Additions are highlighted, and deletions are shown by ~~strikethroughs~~.

C. COMMON CONDITIONS

~~These emissions units shall comply with the 40 CFR 63 Subpart LLL - National Emissions Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry for Major Sources of HAPs, and 40 CFR 63, Subpart A - General Provisions for Subpart LLL - Portland Cement Plants.~~

C.0 Emissions Unit Specific Testing, Monitoring, Notification, Recordkeeping, and Reporting Requirements

C.1. Test Methods and Procedures: The permittee shall conduct testing/monitoring on all emissions units as indicated below:

System	Unit ID	Pollutant	EPA Test Method	Frequency
EU 02601 Coal Handling				
Coal Mill Main exhausts to main stack (if not operated simultaneously with Kiln Cooler/Raw Mill)	461.BF30001	PM Opacity	5 9	Initial & Annual ⁽⁹⁾ Initial & Annual 5-years
Dump Hopper (Transfer)	461.BF13001			
Conveyors (2) (Transfer) & Coal and Petroleum Coke Feed Bins	461.BF23002			
Coke/Petroleum Coke (Transfer)	461.BF75002	PM	5	Initial ⁽⁹⁾ & Annual ⁽⁹⁾
Surge Bin (Feeder)	461.BF65003	Opacity	9	Initial & Annual
Coal (Transfer) Surge Bin (Feeder)	461.BF650			
Coal Mill Feed	461.BF350			
EU 0027 Clinker Handling & Storage				
Clinker Silos 21-23 & 26-28	F633			
Clinker Transfer conveyors from cooler Burner Building	441.BF54001			
Clinker Silos	481.BF14001			
Clinker Transfer Conveyors	481.BF54002	PM	5	Initial ⁽⁹⁾ & Annual ⁽⁹⁾
Clinker Off-spec Bins	481.BF33003	Opacity	9	Initial & Annual 5-years
Clinker transfer	481.BF640			
Clinker transfer	481.BF730			
Clinker transfer	481.BF930			

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

EUs 003 012 and 013 Finish Mills				
Finish Mill No. 1	F-113	PM	5	Initial ^(b) & Annual ^(b)
	F-130	Opacity	9	Initial & Annual 5-years
Finish Mill No. 3	F-330	PM	5	Initial & Annual ^(b)
		Opacity	9	Initial & Annual 5-years
	F-332	PM	5	Initial ^(b) & Annual ^(b)
		Opacity	9	Initial & Annual 5-years
533.BF340 F-313	PM	5	Initial & Annual ^(b)	
	Opacity	9	Initial & Annual 5-years	
Finish Mill No. 4 <i>Belt conveyor/ Separator</i>	F-432			
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-605	PM	5	Initial ^(b) & Annual ^(b)
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-603	Opacity	9	Initial & Annual 5-years
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-604			
Finish Mill No. 4 <i>Ball Mill/Mill Sweep</i>	F-430	PM	5	Initial & Annual ^(b)
Finish Mill No. 6 <i>Main</i>	531.BF01	Opacity	9	Initial & Annual 5-years
Finish Mill No. 6 <i>Sweep</i>	531.BF02			
EUs 004 014, 015, and 016 Cement Storage, Packhouse, & Loadout				
Cement Silos 1-6	F-511			
Cement Silos 7-9	F-512			
Cement Silo 10	F-513			
Cement Silo 11	F-514			
Cement Silo 12	F-515			
Bulk Loadout Unit 1 <i>(Rail/Truck)</i>	B-110			
Bulk Loadout Unit 2 <i>(Truck)</i>	B-210	PM	5	Initial ^(b) & Annual ^(b)
Bulk Loadout Unit 3 Line 1	B-372	Opacity	9	Initial & Annual 5-years
Bulk Loadout Unit 3 Line 2	B-374			
Bulk Loadout Unit 3 Line 3	B-382			
Packhouse	Pending			

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

EU 02805 Raw Mill and Pyroprocessing System				
Kiln/Cooler/Raw Mill (and Coal Mill when operated simultaneously) Main/Common Stack	331.BF20004	PM	5	Initial & Annual
		PM10	5	Initial & Annual
		Opacity	9	Initial & 5 years
		SO2	6	Initial & 5 years
		NOx	7 or 7E	Initial & 5 years
		CO	10	Initial & 5 years
		VOC	25 or 25A	Initial & 5 years
		SAM	5 & 8	Initial & 5 years
		Dioxins/Furans	23	Initial & 30 months
		Lead/Mercury	29 or 101A	Initial & Annual ^(a)
Kiln Dust Bin	331.BF74002			
Kiln Dust				
CF Blend Silo	341.BF35004			
Raw Meal	351.BF41004	PM	5	Initial ^(b) & Annual ^(b)
Preheat/Calciner Tower		Opacity	9	Initial & Annual 5-years
Raw Meal	351.BF44002			
Preheat/Calciner Tower				
Raw Meal	351.BF47003			
Preheat/Calciner Tower				
Kiln Dust Truck Loadout	331.BF645			
EU 02906 Raw Material Handling				
Lime/Gyp Silos	232.BF01			
Additives Silo 1	311.BF65004	PM	5	Initial ^(b) & Annual ^(b)
Additives Silo 2	311.BF75002	Opacity	9	Initial & Annual 5-years
Additives Silo 3	311.BF47003			
Additives Silo 4	311.BF95004			

Notes:

- ^(a) In the event that initial testing for mercury and lead result in potential annual emissions below 130 and 694 pounds, respectively, the DERM may waive the annual testing and require testing once every 5 years. Should subsequent test results indicate levels greater than those mentioned above, the facility shall revert to an annual testing schedule.
- ^(b) Initial and subsequent compliance testing requirements for PM emissions, except those listed below, are waived and an alternative standard of 5% opacity is imposed. If the DERM has reason to believe that the particulate weight emissions standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. The following emissions units require initial testing for PM emissions: 331.BF20004, F-330, 533.BF340 F-430, 531.BF01, 531.BF02

Permit No. 0250020-010-AC, Rule 62-297.310(7), F.A.C.

C.2 through C.9. No Changes in these conditions.

C.10. **Fuel Analysis for On-specification Used Oil:** Fuel analysis shall be in accordance with 40 CFR 266.43(b)(1) & (6). A sample shall be taken from the outlet of the blend tank on the first working day (i.e., Monday-Friday; exceptions: holidays) of each month, if any used oil was placed in the blend tank the previous month; or, the sample can be taken directly from the used oil mobile collection tank after final collection and prior to the time of initial transfer; but, that sampling frequency shall be no less than quarterly and the sampling methodology shall have been established with the DERM, Miami-Miami-Dade County prior to sampling. Upon taking a sample, the sample shall be analyzed for the following constituent/property and associated unit and using the following test methods (or their latest version):

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Constituent/Property	Unit	Test Method
Arsenic	ppm	EPA SW-846 (3040-7130)
Cadmium	ppm	EPA SW-846 (3040-7130)
Chromium	ppm	EPA SW-846 (3040-7130)
Lead	ppm	EPA SW-846 (3040-7130)
Total Halogens	ppm	ASTM E442
PCBs	ppm	ASTM D4059
Sulfur	% by weight	ASTM D2622-92, ASTM D4294-90, or both ASTM D4057-88 & ASTM D129-91
Flash Point	°F	ASTM D93
Heat of Combustion	Btu/gal	ASTM D240-76
Density	Lbs/gal	ASTM D1298-80

Note: Other test methods may be used only after receiving written approval from the DERM.
 [40 CFR 279.11, which is adopted by reference in Rule 62-710.210(2), F.A.C.]

C.11 through C.26. No Changes in these conditions.

DRAFT

EMISSION UNIT 4

RAW MILL AND PYROPROCESSING UNIT

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

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 [4]

Raw Mill and Pyroprocessing Unit

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:
Raw Mill and Pyroprocessing Unit

3. Emissions Unit Identification Number: **028**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--------------------------------	--------------------------	--	--

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

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:
Pyroprocessing consists of the preheater/calciner, kiln, and cooler.

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Baghouses (7)

Process Enclosure

2. Control Device or Method Code(s): **016, 054**

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

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: 028		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: 7 baghouse stacks. See Attachment TM-EU4-C15.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 420 feet	7. Exit Diameter: 14 feet	
8. Exit Temperature: 294 °F	9. Actual Volumetric Flow Rate: 515,000 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: Data for main stack. Representative of clinker production with raw mill operating. With raw mill down, parameters are 605,000 acfm @ 500°F. See Attachment TM-EU4-C15 for stack parameters for other sources.			

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

D. SEGMENT (PROCESS/FUEL) INFORMATION**Segment Description and Rate: Segment 1 of 8**

1. Segment Description (Process/Fuel Type): Mineral Products; Cement Manufacturing; Dry Process; Raw Material Grinding and Drying.		
2. Source Classification Code (SCC): 3-05-006-13		3. SCC Units: Raw Feed Produced
4. Maximum Hourly Rate: 425 (dry)	5. Maximum Annual Rate: 3,723,000 (dry)	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Segment refers to raw dry feed produced from raw mill, based on 250 TPH clinker production.		

Segment Description and Rate: Segment 2 of 8

1. Segment Description (Process/Fuel Type): Mineral Products; Cement Manufacturing; Dry Process; Kilns.		
2. Source Classification Code (SCC): 3-05-006-06		3. SCC Units: Tons Cement Produced
4. Maximum Hourly Rate: 250	5. Maximum Annual Rate: 2,190,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Segment refers to clinker production. Maximum hourly rate is 24-hour block average.		

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 3 of 8

1. Segment Description (Process/Fuel Type): Mineral Products; Cement Manufacturing; Dry Process; Clinker Cooler.		
2. Source Classification Code (SCC): 3-05-006-14		3. SCC Units: Tons Cement Produced
4. Maximum Hourly Rate: 250	5. Maximum Annual Rate: 2,190,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Segment refers to clinker through clinker cooler.		

Segment Description and Rate: Segment 4 of 8

1. Segment Description (Process/Fuel Type): In-process Fuel Use; Industrial Processes; Cement Kiln/Dryer (Bituminous Coal).		
2. Source Classification Code (SCC): 3-90-002-01		3. SCC Units: Tons Burned
4. Maximum Hourly Rate: 30	5. Maximum Annual Rate: 263,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 3.5	8. Maximum % Ash:	9. Million Btu per SCC Unit: 25
10. Segment Comment: Maximum annual rate based on 2,190,000 TPY clinker. Maximum hourly rate is 24-hour block average. Includes coal and petroleum coke.		

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 5 of 8

1. Segment Description (Process/Fuel Type): In-process Fuel Use; Industrial Processes; General-Coke.		
2. Source Classification Code (SCC): 3-90-008-99		3. SCC Units: Tons Burned
4. Maximum Hourly Rate: 20.3	5. Maximum Annual Rate: 177,828	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 5.5	8. Maximum % Ash:	9. Million Btu per SCC Unit: 28.4
10. Segment Comment: Refers to petroleum coke.		

Segment Description and Rate: Segment 6 of 8

1. Segment Description (Process/Fuel Type): In-process Fuel Use; Industrial Processes; Cement Kiln/Dryer No. 2 Fuel Oil with Used Oil Blend.		
2. Source Classification Code (SCC): 3-90-005-02		3. SCC Units: 1,000 Gallons Burned
4. Maximum Hourly Rate: 4.86	5. Maximum Annual Rate: 31,914	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash:	9. Million Btu per SCC Unit: 138.8
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

D. SEGMENT (PROCESS/FUEL) INFORMATION**Segment Description and Rate: Segment 7 of 8**

1. Segment Description (Process/Fuel Type): In-process Fuel Use; Industrial Processes; Cement Kiln/Dryer No. 6 Fuel Oil with Used Oil Blend.		
2. Source Classification Code (SCC): 3-90-004-02		3. SCC Units: 1,000 Gallons Burned
4. Maximum Hourly Rate: 4.44	5. Maximum Annual Rate: 29,185	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 2.0	8. Maximum % Ash:	9. Million Btu per SCC Unit: 152
10. Segment Comment:		

Segment Description and Rate: Segment 8 of 8

1. Segment Description (Process/Fuel Type): In-process Fuel Use; Industrial Processes; Cement Kiln/Dryer; Natural Gas.		
2. Source Classification Code (SCC): 3-90-006-02		3. SCC Units: Million Cubic Feet Burned
4. Maximum Hourly Rate: 0.68	5. Maximum Annual Rate: 4,436	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1,000
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

Page [1] of [8]
Sulfur Dioxide - SO₂

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: SO₂	2. Total Percent Efficiency of Control:
3. Potential Emissions: 320 lb/hour 806 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: See Below Reference:	7. Emissions Method Code: 2
8. Calculation of Emissions: 1.28 lb SO ₂ /ton clinker produced (24-hour average) x 250 TPH clinker produced (24-hour average) = 320 lb SO ₂ /hr 0.736 lb SO ₂ /ton clinker produced (annual average) x 2,190,000 TPY clinker produced x 1 ton/2,000 lb = 806 TPY SO ₂	
9. Pollutant Potential/Estimated Fugitive Emissions Comment: See Attachment TM-EU4-F1.8.	

EMISSIONS UNIT INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

POLLUTANT DETAIL INFORMATION

Page [1] of [8]
Sulfur Dioxide - SO₂

**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 4

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 320 lb/hr	4. Equivalent Allowable Emissions: 320 lb/hour tons/year
5. Method of Compliance: SO₂ CEMS	
6. Allowable Emissions Comment (Description of Operating Method): *Allowable emissions on a 24-hour average basis.	

Allowable Emissions Allowable Emissions 2 of 4

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.736 lb/ton clinker	4. Equivalent Allowable Emissions: lb/hour 806 tons/year
5. Method of Compliance: SO₂ CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Annual limit based on 12-month rolling average.	

Allowable Emissions Allowable Emissions 3 of 4

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 1.2 lb/MMBtu	4. Equivalent Allowable Emissions: 810 lb/hour tons/year
5. Method of Compliance: EPA Method 6	
6. Allowable Emissions Comment (Description of Operating Method): Additional SO₂ limit when liquid fuel is fired (24-hour average). Miami-Dade Co. Code, Section 24-17(2)(a).	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

Page [1] of [8]
Sulfur Dioxide - SO₂

**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 4 of 4

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.8 lb/MMBtu	4. Equivalent Allowable Emissions: 540 lb/hour tons/year
5. Method of Compliance: EPA Method 6	
6. Allowable Emissions Comment (Description of Operating Method): Additional SO₂ limit when liquid fuel is fired (24-hour average). Miami-Dade Co. Code, Section 24-17(2)(a).	

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

POLLUTANT DETAIL INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

Page [2] of [8]
Particulate Matter Total - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: 39.85 lb/hour 174.5 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: See Attachment TM-EU4-F1.8 Reference:	7. Emissions Method Code: 0
8. Calculation of Emissions: See Attachment TM-EU4-F1.8.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

POLLUTANT DETAIL INFORMATION

Page [2] of [8]
Particulate Matter Total - PM

**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 4

1. Basis for Allowable Emissions Code: ESC PSD	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.090 lb/ton dry Kiln feed	4. Equivalent Allowable Emissions: 38.3 lb/hour 167.5 tons/year
5. Method of Compliance: Annual Method 5	
6. Allowable Emissions Comment (Description of Operating Method): Applies to emissions from main stack only.	

Allowable Emissions Allowable Emissions 2 of 4

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.3 lb/ton dry Kiln feed	4. Equivalent Allowable Emissions: 127.5 lb/hour 558.5 tons/year
5. Method of Compliance: Annual Method 5	
6. Allowable Emissions Comment (Description of Operating Method): 40 CFR 63.1344. For kiln only, based on feed to kiln. Equivalent allowable emissions are emissions out of the main stack.	

Allowable Emissions Allowable Emissions 3 of 4

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.1 lb/ton dry Kiln feed	4. Equivalent Allowable Emissions: 42.5 lb/hour 186.2 tons/year
5. Method of Compliance: Annual Method 5	
6. Allowable Emissions Comment (Description of Operating Method): 40 CFR 63.1345. For cooler only, based on feed to kiln. Equivalent allowable emissions are emissions out of the main stack.	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

Page [2] of [8]
Particulate Matter Total - PM

**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 **4** of **4**

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.0095 gr/dscf	4. Equivalent Allowable Emissions: 1.6 lb/hour 7.0 tons/year
5. Method of Compliance: Annual Method 5	
6. Allowable Emissions Comment (Description of Operating Method): Applies to emissions from baghouses other than main stack baghouse 331.BF200.	

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

POLLUTANT DETAIL INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

Page [3] of [8]
Particulate Matter - PM₁₀

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:	
3. Potential Emissions: 33.7 lb/hour 147.7 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: Attachment TM-EU4-F1.8 Reference:		7. Emissions Method Code: 0	
8. Calculation of Emissions: See Attachment TM-EU4-F1.8.			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

Page [3] of [8]
Particulate Matter - PM₁₀

**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 2

1. Basis for Allowable Emissions Code: ESC PSD	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.076 lb/ton dry Kiln feed	4. Equivalent Allowable Emissions: 32.1 lb/hour 140.7 tons/year
5. Method of Compliance: Annual Method 5	
6. Allowable Emissions Comment (Description of Operating Method): Applies to emissions from main stack only. See Attachment TM-EU4-F1.8.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 100 percent of PM	4. Equivalent Allowable Emissions: 1.6 lb/hour 7.0 tons/year
5. Method of Compliance: Annual Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Applies to emissions from baghouses other than main stack baghouse 331.BF200.	

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

POLLUTANT DETAIL INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

Page [4] of [8]
Dioxin/Furans - DIOX

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: DIOX	2. Total Percent Efficiency of Control:
3. Potential Emissions: 3.46×10^{-7} lb/hour 1.51×10^{-6} 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: 0.4 ng/dscm @ 7% O₂ Reference: 40 CFR 63.1343(b)(3)	7. Emissions Method Code: 0
8. Calculation of Emissions: $0.4 \text{ ng TEQ/dscm} \times (1 \text{ lb}/454\text{g}) \times (1 \text{ g}/10^9 \text{ ng}) \times 230,911 \text{ dscf}/\text{min} \times (\text{m}^3/35.3 \text{ ft}^3) \times 60 \text{ min}/\text{hr} = 3.46 \times 10^{-7} \text{ lb}/\text{hr}$ $3.46 \times 10^{-7} \text{ lb}/\text{hr} \times 8,760 \text{ hr}/\text{yr} \times 1 \text{ ton}/2,000 \text{ lb} = 1.51 \times 10^{-6} \text{ TPY}$ See Attachment TM-EU4-F1.8.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment: Emissions are from main stack. Flow rate based on 360,637 dscfm @ 12% O ₂ = 230,911 dscfm @ 7% O ₂ .	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

Page [4] of [8]
Dioxin/Furans - DIOX

**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:
3. Allowable Emissions and Units: 0.4 ng/dscm @ 7% O₂	4. Equivalent Allowable Emissions: 3.46x10⁻⁷ lb/hour 1.51x10⁻⁶ tons/year
5. Method of Compliance: EPA Method 23	
6. Allowable Emissions Comment (Description of Operating Method): Based on limit in Permit No. 0250020-010-AC and Rule 40 CFR 63.1343(b)(3).	

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 [4]
Raw Mill and Pyroprocessing Unit

POLLUTANT DETAIL INFORMATION

Page [5] of [8]
Nitrogen Oxides - NO_x

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: NO_x		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 720 lb/hour 2,300 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: See Below Reference:		7. Emissions Method Code: 0	
8. Calculation of Emissions: 2.88 lb NO _x /ton clinker produced (24-hour average) x 250 TPH clinker produced (24-hour average) = 720 lb NO _x /hr 2.1 lb NO _x /ton clinker produced (annual average) x 2,190,000 TPY clinker x 1 ton/2,000 lb = 2,300 TPY NO _x See Attachment TM-EU4-F1.8.			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

Page [5] of [8]
Nitrogen Oxides - NO_x

**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 3

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 720 lb/hr, 24-hr average	4. Equivalent Allowable Emissions: 720 lb/hour tons/year
5. Method of Compliance: NO_x CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Proposed permit limit. Equivalent allowable emissions are emissions out of main stack.	

Allowable Emissions Allowable Emissions 2 of 3

1. Basis for Allowable Emissions Code: ESC PSD	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.1 lb/ton clinker	4. Equivalent Allowable Emissions: lb/hour 2,300 tons/year
5. Method of Compliance: NO_x CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Annual limit in lb/ton based on 12-month rolling average.	

Allowable Emissions Allowable Emissions 3 of 3

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.0 lb/MMBtu	4. Equivalent Allowable Emissions: 1,350 lb/hour 5,913 tons/year
5. Method of Compliance: NO_x CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Emission limit based on Rule 62-296.570(4)(b)8. Maximum heat input is 675 MMBtu/hr.	

EMISSIONS UNIT INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

POLLUTANT DETAIL INFORMATION

Page [6] of [8]
Carbon Monoxide - CO

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: CO		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 575 lb/hour 1,456 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: See Below Reference:		7. Emissions Method Code: 0	
8. Calculation of Emissions: 2.3 lb CO/ton clinker produced (24-hour average) x 250 TPH clinker produced (24-hour average) = 575 lb CO/hr 1.33 lb CO/ton clinker produced (annual average) x 2,190,000 TPY clinker x 1 ton/2,000 lb = 1,456 TPY CO See Attachment TM-EU4-F1.8.			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

Page [6] of [8]
Carbon Monoxide - CO

**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 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.3 lb/ton CP	4. Equivalent Allowable Emissions: 575 lb/hour tons/year
5. Method of Compliance: EPA Method 10	
6. Allowable Emissions Comment (Description of Operating Method): Allowable based on 24-hour block average. Annual average limit is 1.33 lb/ton clinker product.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: ESC PSD	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 1.33 lb/ton clinker	4. Equivalent Allowable Emissions: lb/hour 1,456 tons/year
5. Method of Compliance: EPA Method 10	
6. Allowable Emissions Comment (Description of Operating Method): Annual limit in lb/ton clinker based on 12-month rolling average.	

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 [4]
Raw Mill and Pyroprocessing Unit

POLLUTANT DETAIL INFORMATION

Page [7] of [8]
Volatile Organic Compounds - VOC

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: VOC		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 40 lb/hour 153 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: Permit Limit Reference: Permit No. 0250020-016-AC		7. Emissions Method Code: 0	
8. Calculation of Emissions: 0.16 lb VOC/ton clinker produced (24-hour average) x 250 TPH clinker produced (24-hour average) = 40 lb/hr 0.14 lb VOC/ton clinker produced (annual average) x 2,190,000 TPY clinker produced x 1 ton/2,000 lb = 153 TPY VOC See Attachment TM-EU4-F1.8.			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [4]
Raw Mill and Pyroprocessing Unit

Page [7] of [8]
Volatile Organic Compounds - VOC

**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 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 40 lb/hr	4. Equivalent Allowable Emissions: 40 lb/hour tons/year
5. Method of Compliance: VOC CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Allowable based on 24-hour block average.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: ESC PSD	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.14 lb/ton clinker	4. Equivalent Allowable Emissions: lb/hour 153 tons/year
5. Method of Compliance: VOC CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Emission limit in lb/ton clinker based on 12-month rolling average.	

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 [4]
Raw Mill and Pyroprocessing Unit

POLLUTANT DETAIL INFORMATION

Page [8] of [8]
Sulfuric Acid Mist - SAM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: SAM		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 2.70 lb/hour 11.8 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: 0.0108 lb/ton clinker Reference: Vendor Information		7. Emissions Method Code: 2	
8. Calculation of Emissions: 0.0108 lb SAM/ton clinker produced (24-hour average) x 250 TPH clinker produced (24-hour average) = 2.70 lb/hr 0.0108 lb SAM/ton clinker produced (annual average) x 2,190,000 TPY clinker produced x 1 ton/2,000 lb = 11.8 TPY SAM See Attachment TM-EU4-F1.8.			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

EMISSIONS UNIT INFORMATION**POLLUTANT DETAIL INFORMATION**

Section [4]
Raw Mill and Pyroprocessing Unit

Page [8] of [8]
Sulfuric Acid Mist - SAM

**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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.0108 lb/ton clinker	4. Equivalent Allowable Emissions: 2.70 lb/hour 11.8 tons/year
5. Method of Compliance: EPA Methods 5 and 8	
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):	

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 [4]

Raw Mill and Pyroprocessing Unit

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 1

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: COMS or EPA Method 9.	
5. Visible Emissions Comment: Rule 40 CFR 63.1342 for the main/common stack and 40 CFR 63.1348 for the other baghouse stacks.	

Visible Emissions Limitation: Visible Emissions Limitation ____ of ____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 1 of 4

1. Parameter Code: VE	2. Pollutant(s):
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Durag Model Number: D-R 290 Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment: 40 CFR 63, Subpart LLL.	

Continuous Monitoring System: Continuous Monitor 2 of 4

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

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor **3** of **4**

1. Parameter Code: SO₂	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other
4. Monitor Information... Manufacturer: Siemens Model Number: Ultramat/Oxymat 6 Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment: Required by permit condition.	

Continuous Monitoring System: Continuous Monitor **4** of **4**

1. Parameter Code: VOC	2. Pollutant(s):
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: MeB - Analysentechnik GmbH Model Number: Thermo-FID Model MK Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment: Required by permit condition.	

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

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: TM-EU4-11 <input type="checkbox"/> Previously Submitted, Date _____
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 checked="" type="checkbox"/> Attached, Document ID: TM-EU4-12 <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: TM-EU4-13 <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: TM-EU4-14 <input type="checkbox"/> Previously Submitted, Date _____ <input 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"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: TM-EU4-IV1 <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring <input checked="" type="checkbox"/> Attached, Document ID: CAM Plan <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input checked="" type="checkbox"/> Attached, Document ID: TM-EU4-IV3 <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" 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 checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [4]

Raw Mill and Pyroprocessing Unit

Additional Requirements Comment

[Empty rectangular box for additional requirements comment]

ATTACHMENT TM-EU4-C15

EMISSION POINT COMMENT

Attachment TM-EU4-C15. Summary of Stack Parameter Data for the Raw Mill and Pyroprocessing System (EU 028)

Emission Unit	Baghouse ID No.	Stack Height (ft)	Stack Diameter (ft)	Exhaust Flow Rate (acfm)	Exhaust Temperature (°F)
Kiln/Cooler/Raw Mill	331.BF200	420	14	515,000 ^a	294 ^a
Kiln Dust bin	331.BF740	125	1.00 x 1.25	4,250	300
Clinker Feed Blend silo	341.BF350	241	0.92 x 1.08	3,760	178
Raw feed transfer	351.BF410	84	0.92 x 1.08	4,000	178
Raw feed transfer	351.BF440	45	1.00 x 1.25	4,760	178
Raw feed transfer	351.BF470	353	1.00 x 1.25	4,100	175
Kiln Dust Truck Loadout	331.BF645	46	0.83	3,500	175

^aWhen raw mill is operating; parameters are 605,000 acfm and 500°F when raw mill is down.

ATTACHMENT TM-EU4-F1.8

EMISSION CALCULATIONS

Attachment TM-EU4-F1.8a. Raw Mill and Pyroprocessing Unit System (EU ID No. 028) Potential PM/PM₁₀ Emission Rates: **2,190,000 TPY Clinker**

Emission Unit	Equip. ID No.	New or Existing	Operating Hours (hr/yr)	Exhaust Flow Rate		Temperature (°F)	Potential PM Emission Rate			Potential PM ₁₀ Emission Rate	
				acfm	dscfm		gr/dscf	lb/hr	TPY	lb/hr	TPY
Kiln/Cooler/Raw Mill ^d	331.BF200	New	8,760	515,000	360,637	294	^a	38.3 ^d	167.5 ^d	32.1 ^{b,d}	140.7 ^{b,d}
Kiln Dust Bin	331.BF740	New	8,760	4,250	2,953	300	0.0095	0.24	1.05	0.24 ^c	1.05 ^c
Clinker Feed Blend Silo	341.BF350	New	8,760	3,760	3,112	178	0.0095	0.25	1.11	0.25 ^c	1.11 ^c
Raw Feed Transfer	351.BF410	New	8,760	4,000	3,310	178	0.0095	0.27	1.18	0.27 ^c	1.18 ^c
Raw Feed Transfer	351.BF440	New	8,760	4,760	3,939	178	0.0095	0.32	1.40	0.32 ^c	1.40 ^c
Raw Feed Transfer	351.BF470	New	8,760	4,100	3,409	175	0.0095	0.28	1.22	0.28 ^c	1.22 ^c
Kiln Dust Truck Loadout	331.BF645	New	8,760	3,500	2,910	175	0.0095	0.24	1.04	0.24 ^c	1.04 ^c
Revised Potential Emission Rates =								39.85	174.54	33.73	147.73
Revised Potential Emission Rates without Kiln/Cooler/Raw Mill =								1.6	7.0	1.6	7.0

^a Emission rate based on an emission factor of 0.090 lb/ton of dry kiln feed.

^b PM₁₀ emission rate calculated as 84 percent of PM emission rate.

^c PM₁₀ emission rate calculated as 100 percent of PM emission rate.

^d Includes emissions from the Coal Mill (EU ID No. 001) when the Kiln/Cooler/Raw Mill and Coal Mill are operating simultaneously.

Attachment TM-EU4-F1.8b. Dry Kiln, Cooler, and Raw Mill (EU ID No. 028) Potential Emissions Vented from the Main Stack: 2,190,000 TPY Clinker

Pollutant	Proposed Increase in Production				Current Permit Limits		
	Emission Factor	Activity Factor	Emission Rate		lb/ton ^b	lb/hr	TPY
			lb/hr	TPY			
<u>24-Hour</u>							
Particulate Matter (PM) ^a	0.090 lb/ton DKF	425 TPH DKF	38.3	--	0.125	50	--
Particulate Matter (PM10) ^a	84% of PM	--	32.1	--	84% of PM	42	--
Sulfur Dioxide	1.28 lb/ton CP	250 TPH CP	320	--	1.28	320	--
Nitrogen Oxides	2.88 lb/ton CP	250 TPH CP	720	--	2.88	720	--
Carbon Monoxide	2.3 lb/ton CP	250 TPH CP	575	--	2.30	576	--
Volatile Organic Compounds	0.16 lb/ton CP	250 TPH CP	40	--	0.16	40	--
Sulfuric Acid Mist	0.0108 lb/ton CP	250 TPH CP	2.7	--	0.0108	2.24	--
Dioxin/Furan	0.4 ng/dscm TEQ	230,911 dscf/min ^c	3.46E-07	--	--	--	--
<u>Annual Average</u>							
Particulate Matter (PM) ^a	0.090 lb/ton DKF	3,723,000 TPY DKF	--	167.5	0.125	--	175
Particulate Matter (PM10) ^a	84% of PM	--	--	140.7	84% of PM	--	147
Sulfur Dioxide	0.736 lb/ton CP	2,190,000 TPY CP	--	806	0.98	--	806
Nitrogen Oxides	2.1 lb/ton CP	2,190,000 TPY CP	--	2,300	2.38	--	1,953
Carbon Monoxide	1.33 lb/ton CP	2,190,000 TPY CP	--	1,456	1.77	--	1,457
Volatile Organic Compounds	0.14 lb/ton CP	2,190,000 TPY CP	--	153	0.189	--	155
Sulfuric Acid Mist	0.0108 lb/ton CP	2,190,000 TPY CP	--	11.8	0.0108	--	8.68
Dioxin/Furan	3.46E-07 lb/hr	8,760 hr/yr	--	1.51E-06	--	--	--

DKF = Dry Kiln Feed

CP = Clinker Production

TPH = tons per hour

TPY = tons per year

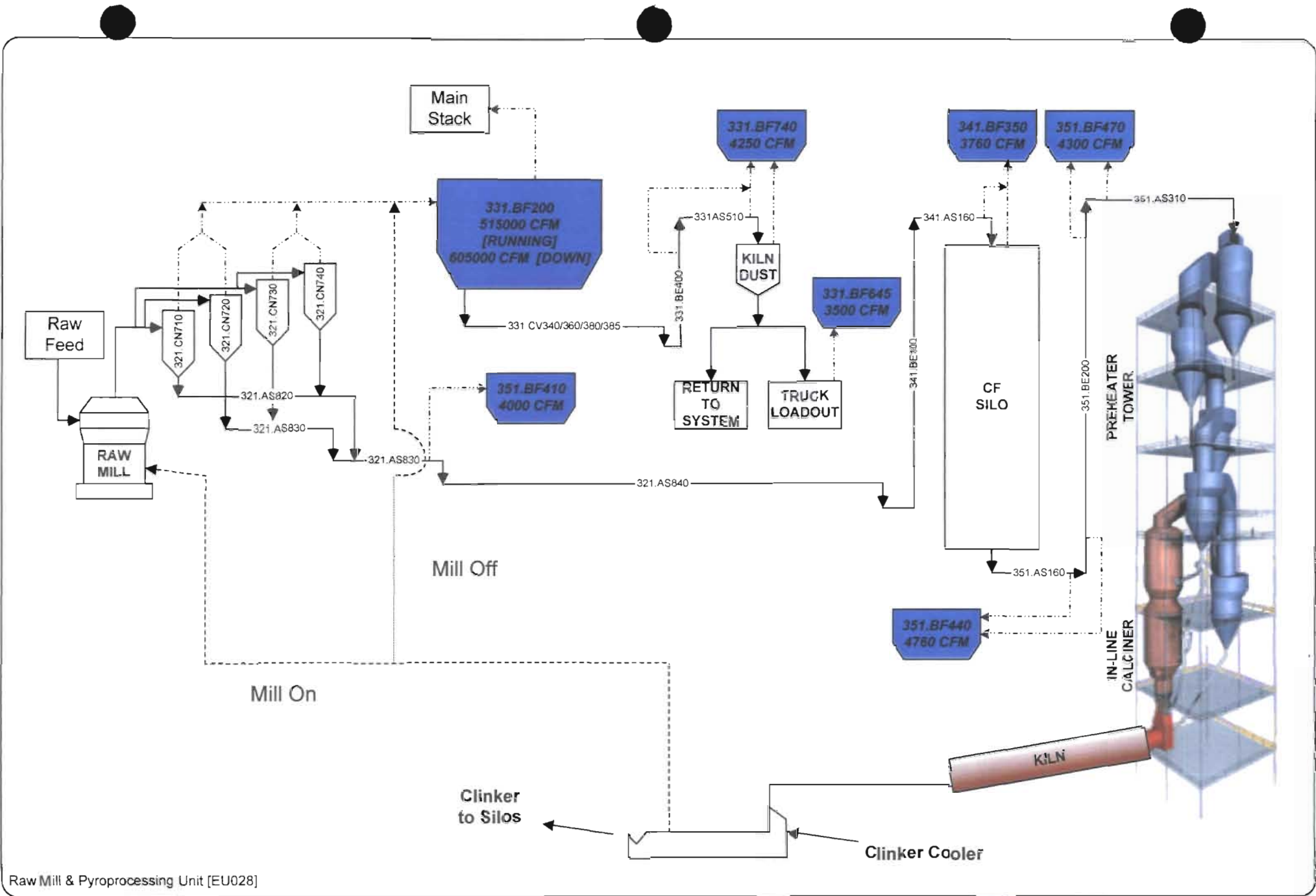
^a Includes Coal Mill emissions during concurrent operation of Kiln/Cooler/Raw Mill and Coal Mill.

^b 24-hour limits are based on 250 TPH clinker production rate.

^c Flow rate @ 7% O₂.

ATTACHMENT TM-EU4-I1

PROCESS FLOW DIAGRAM



Raw Mill & Pyroprocessing Unit [EU028]

DESCRIPTION Attachment TM-EU4-I1 Process Flow Diagram	TITLE: PENNSUCO CEMENT	
	FILENAME: NEW PLOT PLANS VSD/TM-EU4-I1	
	LAST REVISION DATE: 4/27/2005	

ATTACHMENT TM-EU4-I2

FUEL ANALYSIS OR SPECIFICATION

Attachment TM-EU4-I2. Fuel Analysis Specification

Parameter	No. 6 Residual			No. 2 Distillate
	Fuel Oil ^a	Coal	Petroleum Coke	Fuel Oil ^a
Moisture	--	8.5%	12%	--
Density	8.0 lb/gal	--	--	7.2 lb/gal
Heating Value	152,000 Btu/gal	12,500 Btu/lb	14,200 Btu/lb	138,800 Btu/gal
Nitrogen	0.5%	1.1%	--	0.5%
Sulfur	2% Max	3.5%	5.5%	0.5% Max
Ash/Inorganic	0-10	20%	1.0%	0-10

^a Can include on-spec used oil.

ATTACHMENT TM-EU4-I3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

Attachment TM-EU4-I3. Control Equipment Information for Raw Mill and Pyroprocessing Unit

Source ID	Baghouse			Flow Rate		Cloth Area (ft ²)	Air to Cloth Ratio
	ID No.	Manufacturer	Model No.	acfm	dscfm		
Kiln/Cooler/Raw Mill (Main Stack)	331.BF200	FLS Airtech	M5C690D16(16)	515,000	360,637	173,397	3.0:1
Kiln Dust Bin	331.BF740	FLS Airtech	100C10	4,250	2,953	1,302	3.3:1
CF Blend Silo	341.BF350	FLS Airtech	64C10	3,760	3,112	833	4.5:1
Raw Meal (Preheat/Calciner Tower)	351.BF410	FLS Airtech	64C10	4,000	3,310	833	4.8:1
Raw Meal (Preheat/Calciner Tower)	351.BF440	FLS Airtech	100C10	4,760	3,939	1,320	3.7:1
Raw Meal (Preheat/Calciner Tower)	351.BF470	FLS Airtech	100C10	4,100	3,409	1,302	3.2:1
Kiln Dust truck Loadout	331.BF645	Midwest	MVL54H	3,500	2,910	1,167	3.0

ATTACHMENT TM-EU4-I4

MACT STARTUP/SHUTDOWN/MALFUNCTION (SSM) PLAN

WILL BE MADE AVAILABLE UPON REQUEST

ATTACHMENT TM-EU4-IV1

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT TM-EU4-IV1**LIST OF APPLICABLE REGULATIONS
FOR THE RAW MILL AND PYROPROCESSING UNIT**

- 62-296.320(4)(a) – Process Weight Table
- 62-296.407 – Portland Cement Plants
- 62-296.507(4)(b)8 – RACT Requirements for Major VOC and NO_x Emitting Facilities
- 40 CFR 63.1342 – NESHAPs Subpart LLL – Standards: General
- 40 CFR 63.1343 – NESHAPs Subpart LLL – Standards for Kilns/Raw Mills
- 40 CFR 63.1344 – NESHAPs Subpart LLL – Operating limits for Kilns/Raw Mills
- 40 CFR 63.1345 – NESHAPs Subpart LLL – Standards for Clinker Coolers
- 40 CFR 63.1347 – NESHAPs Subpart LLL – Standards for Raw and Finish Mills
- 40 CFR 63.1348 – NESHAPs Subpart LLL – Material Handling Sources Opacity Limit
- 40 CFR 63.1349 – NESHAPs Subpart LLL – Performance Testing
- 40 CFR 63.1350 – NESHAPs Subpart LLL – Monitoring
- 40 CFR 63.1351 – NESHAPs Subpart LLL – Compliance Dates
- 40 CFR 63.1356 – NESHAPs Subpart LLL – Exemption from NSPS
- 40 CFR 63 – NESHAPs Subpart A – General Provisions

ATTACHMENT TM-EU4-IV3

ALTERNATIVE METHODS OF OPERATION

ATTACHMENT TM-EU4-IV3**ALTERNATIVE METHODS OF OPERATION**

The pyroprocessing system consists of the preheater/calciner, kiln, and the cooler. The maximum heat input rates for the preheater/calciner and kiln are 385 and 290 MMBtu per hour, respectively. The calciner and the kiln are permitted to fire natural gas, bituminous coal, petroleum coke, No. 2 fuel oil with used oil blend, and No. 6 fuel oil with used oil blend. The hours of operation are not limited (8,760 hours per year).

EMISSION UNIT 5

RAW MATERIAL HANDLING

EMISSIONS UNIT INFORMATION

Section [5]
Raw Material Handling

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 [5]
Raw Material Handling**

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.)
<input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
<input type="checkbox"/> 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)				
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).				
<input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.				
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.				
2. Description of Emissions Unit Addressed in this Section: Raw Material Handling				
3. Emissions Unit Identification Number: 029				
4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9. Package Unit: Manufacturer: _____ Model Number: _____				
10. Generator Nameplate Rating: MW				
11. Emissions Unit Comment: Raw material feed storage silos and handling.				

EMISSIONS UNIT INFORMATION

**Section [5]
Raw Material Handling**

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Baghouses (4)

Process Enclosures

2. Control Device or Method Code(s): **018, 054**

EMISSIONS UNIT INFORMATION

Section [5]
Raw Material Handling

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:
2. Maximum Production Rate: 3,723,000 TPY (dry)
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: Maximum production rate represents total dry kiln feed on an annual basis.

EMISSIONS UNIT INFORMATION

**Section [5]
Raw Material Handling**

**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: EU 029		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: 4 baghouses. See Attachment TM-EU5-C15.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 92 feet		7. Exit Diameter: 1.58 x 1.58 feet
8. Exit Temperature: 92 °F	9. Actual Volumetric Flow Rate: 8,500 acfm		10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: 8,130 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 for Bagoes 311.BF650. See Attachment TM-EU5-C15 for stack parameters of other bagoes.			

EMISSIONS UNIT INFORMATION

**Section [5]
Raw Material Handling**

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Raw Material Transfer		
2. Source Classification Code (SCC): 3-05-006-12		3. SCC Units: Tons Transferred or Handled
4. Maximum Hourly Rate: 425	5. Maximum Annual Rate: 3,723,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Process rate is material feed on a dry basis. Equivalent to 250 TPH and 2,190,000 TPY clinker production.		

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:		

EMISSIONS UNIT INFORMATION

Section [5]
Raw Material Handling

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter Total - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:	
3. Potential Emissions: 18.01 lb/hour 28.63 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: Reference: Applicant Request		7. Emissions Method Code: 0	
8. Calculation of Emissions: <i>w/d v</i> See Attachment TM-EU5-F1.8 for emission calculation. Includes 2.97 lb/hr and 13.00 TPY of PM emissions from baghouses, 1.56 lb/hr and 1.62 TPY of fugitive emissions from raw materials blending area, and 13.48 lb/hr and (1.01) TPY of fugitive PM emissions for vehicular traffic for limestone and additive handling. Hourly fugitive emissions based on annual fugitive emissions and assuming 2,080 hr/yr operation.			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [5]
Raw Material Handling

Page [1] of [2]
Particulate Matter Total - PM

**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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.0095 gr/dscf	4. Equivalent Allowable Emissions: 2.97 lb/hour 13.0 tons/year
5. Method of Compliance: EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Applies to the baghouses only.	

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 [5]
Raw Material Handling

POLLUTANT DETAIL INFORMATION

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

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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 ₁₀	2. Total Percent Efficiency of Control:
3. Potential Emissions: 8.24 lb/hour 18.48 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: Reference:	7. Emissions Method Code: 2
8. Calculation of Emissions: See Attachment TM-EU5-F1.8 for emission calculations. Includes 2.97 lb/hr and 13.00 TPY of PM emissions from the baghouses, and 0.55 lb/hr and 0.57 TPY of fugitive PM emissions from raw materials blending area, and 4.72 lb/hr and 4.91 TPY of fugitive PM emissions from limestone and additive handling. Hourly fugitive emissions based on annual fugitive emissions and assuming 2,080 hr/yr operations.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [5]
Raw Material Handling

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

**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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.0095 gr/dscf	4. Equivalent Allowable Emissions: 2.97 lb/hour 13.0 tons/year
5. Method of Compliance: EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Applies to baghouses only.	

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 [5]
Raw Material Handling

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 4

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: Opacity limitation of 5 percent in lieu of stack testing; applies to baghouses only. Rule 62-297.620(4), F.A.C.	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 4

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Rule 62-296.320(4)(b). Applies to sources other than baghouse exhausts.	

EMISSIONS UNIT INFORMATION

Section [5]
Raw Material Handling

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 3 of 4

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: EPA Method 9	
5. Visible Emissions Comment: 40 CFR 63.1348 for baghouse stacks.	

Visible Emissions Limitation: Visible Emissions Limitation 4 of 4

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Rule 62-296.320(4)(b), applicable to fugitive emissions only.	

EMISSIONS UNIT INFORMATION

Section [5]

Raw Material Handling

H. CONTINUOUS MONITOR INFORMATION

Complete 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 [5]
Raw Material Handling**

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: TM-EU5-11 <input type="checkbox"/> Previously Submitted, Date _____
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: TM-EU5-13 <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable <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>
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [5]

Raw Material Handling

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: TM-EU5-IV1 <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring <input checked="" type="checkbox"/> Attached, Document ID: CAM Plan <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
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 checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [5]

Raw Material Handling

Additional Requirements Comment

[Empty rectangular box for additional requirements comment]

ATTACHMENT TM-EU5-C15

EMISSION POINT COMMENT

Attachment TM-EU5-C15. Summary of Stack Parameter Data for the Raw Material Handling and Storage (EU 029)

Emission Unit	Baghouse ID No.	Stack Height (ft)	Vent Size (in)	Exhaust Flow Rate (acfm)	Exhaust Temperature (°F)
Raw Material Feed Bins	311.BF650	92	19 x 19	8,500	92
Raw Material Handling	311.BF750	17	18 x 27	7,750	92
Raw Material Handling	321.BF470	100	17 x 21	10,800	108
Raw Material Handling	311.BF950	68	20 x 30	11,700	108

ATTACHMENT TM-EU5-F1.8

EMISSION CALCULATIONS

Attachment TM-EU5-F1.8a. Raw Material Handling and Storage System (EU ID No. 006) Potential Emission Rates: **2,190,000 TPY**

Emission Unit	Equip. ID No.	New or Existing	Operating Hours (hr/yr)	Exhaust Flow Rate		Temperature (°F)	Potential PM/PM ₁₀ Emission Rate ^a			
				acfm	dscfm		gr/dscf	lb/hr	TPY	
Raw Material Feed Bins	311.BF650	New	8,760	8,500	8,130	92	0.0095	0.66	2.90	
Raw Material Handling	311.BF750	New	8,760	7,750	7,413	92	0.0095	0.60	2.64	
Raw Material Handling	321.BF470	New	8,760	10,800	10,039	108	0.0095	0.82	3.58	
Raw Material Handling	311.BF950	New	8,760	11,700	10,876	108	0.0095	0.89	3.88	
Revised Potential Emission Rates =								2.97	13.00	

^a PM₁₀ emission rate calculated as 100 percent of PM emission rate.

Attachment TM-EU5-F1.8b. Estimated Future Fugitive Dust Emissions from Drop Type Operations, Titan America, Pennsuco.

SOURCE	Type of Operation ^a	M	U	Emission Factor	Activity Factor	Maximum Annual PM Emissions (tons/yr)	PM ₁₀ Size Multiplier ^d	Maximum Annual PM ₁₀ Emissions (tons/yr)	
		Moisture Content (%)	Wind Speed ^b (MPH)						
<u>COAL HANDLING FACILITIES</u>									
Railcar Unloading for Temporary Storage	Batch Drop	7.2	8.8	0.00111 lbs/ton	87,000 TPY ^c	0.048	0.35	0.017	
Temporary Coal Pile to Railcar	Batch Drop	7.2	8.8	0.00111 lbs/ton	87,000 TPY ^c	0.048	0.35	0.017	
Railcar Unloading	Batch Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	0.012	0.35	0.004	
Conveyor to Conveyor Transfer	Continuous Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	0.012	0.35	0.004	
Conveyor to Conveyor Transfer	Continuous Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	0.012	0.35	0.004	
Conveyor to Stacker Transfer (inside building)	Continuous Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	0.012	0.35	0.004	
Stacker to Storage Pile (inside building)	Continuous Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	0.012	0.35	0.004	
Reclaimer to Conveyor Belt (inside building)	Continuous Drop	7.2	1.3	0.00009 lbs/ton	263,000 TPY ^c	0.012	0.35	0.004	
					Subtotal	0.170		0.059	
<u>RAW MATERIALS BLENDING AREA</u>									
ADDITIVES:									
Raw Material Unloading	Batch Drop	2.0	8.8	0.00667 lbs/ton	266,700 TPY	0.890	0.35	0.311	
Choke Feed Hopper/Conveyor	Continuous Drop	2.0	1.3	0.00056 lbs/ton	266,700 TPY	0.074	0.35	0.026	
Conveyor to Conveyor Transfer	Continuous Drop	2.0	1.3	0.00056 lbs/ton	266,700 TPY	0.074	0.35	0.026	
Conveyor to Stacker Transfer (inside building)	Continuous Drop	2.0	1.3	0.00056 lbs/ton	266,700 TPY	0.074	0.35	0.026	
Stacker to Storage Pile (inside building)	Continuous Drop	2.0	1.3	0.00056 lbs/ton	266,700 TPY	0.074	0.35	0.026	
Reclaimer to Conveyor Belt (inside building)	Continuous Drop	2.0	1.3	0.00056 lbs/ton	266,700 TPY	0.074	0.35	0.026	
LIMESTONE:									
Aggregate Plant Conveyor to Storage Pile (inside building)	Continuous Drop	7.0	1.3	0.00010 lbs/ton	3,716,452 TPY ^f	0.179	0.35	0.063	
Reclaimer to Conveyor Belt (inside building)	Continuous Drop	7.0	1.3	0.00010 lbs/ton	3,716,452 TPY ^f	0.179	0.35	0.063	
					Subtotal	1.62		0.57	
Total						1.79		0.63	

^a Batch Drop and Continuous Emission Factors are computed from AP-42 (US EPA, 1995) Section 13.2.4-3(1). $E = 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$ lb/ton

^b Based on the average wind speed measured at Miami International Airport of 8.8 mph unless the transfer point is enclosed in which case the minimum windspeed for which the equation maintains an "A" Quality Rating, 1.3 mph, was used.

^c Based on future maximum coal throughput.

^d PM₁₀ Size Multiplier is based on particles < 10 micrometers.

^e One-third of total coal throughput could go to temporary storage pile before being placed in storage building.

^f Based on 3,723,000 TPY total dry kiln feed, minus additives (266,700 TPY), and adjusting for moisture content of kiln feed of 7%.

Attachment TM-EU5-F1.8c. Estimation of Future Emissions For Vehicle Traffic for Limestone and Additive Handling
Titan America, Pennsuco Facility.

General Data	Travel Between Temporary Storage Pile at Truck Unloading Area and Hopper		Total
	Front End Loader (loaded)	Front End Loader (unloaded)	
Vehicle Data			
Description	Additives	Additives	
Vehicle Speed (S), mph- Average	10	10	
Vehicle weight (W), tons:			
Loaded	55.5	--	
Unloaded	--	47.5	
Vehicle number of wheels (w)	4	4	
Vehicle miles traveled (VMT)- Annual ^a	2,904	2,904	
General/ Site Characteristics			
Days of precipitation > or = 0.01 inch (p) Annually	120	120	
Silt content (s), % ^b	12	12	
Particle size multiplier, PM (k)	1.00	1.00	
Particle size multiplier, PM10 (k)	0.35	0.35	
Emission Control Data			
Emission control method	Daily Watering	Daily Watering	
Emission control removal efficiency, %	50	50	
Calculated PM Emission Factor (EF)			
Uncontrolled EF, lb/VMT - Annual	10.18	9.13	19.30
Controlled (Final) EF, lb/VMT- Annual	5.09	4.56	9.65
Calculated PM10 Emission Factor (EF)			
Uncontrolled EF, lb/VMT - Annual	3.56	3.19	6.76
Controlled (Final) EF, lb/VMT- Annual	1.78	1.60	3.38
Estimated Emission Rate (ER)			
Particulate Matter (PM) Emission Rate			
lbs/hr ^c	7.10	6.37	13.48
TPY	7.39	6.63	14.01
Particulate Matter 10 (PM10) Emission Rate			
lbs/hr ^c	2.49	2.23	4.72
TPY	2.59	2.32	4.91

Emission Factor (EF) Equations

Uncontrolled EF (UEF) Equation:

$$UEF(\text{lb}/\text{VMT}) = k \times 5.9 \times (s/12) \times (S/30) \times (W/3)^{0.7} \times (w/4)^{0.5} \times ((365 - p)/365)$$

Controlled (Final) EF (CEF) Equation:

$$CEF(\text{lb}/\text{VMT}) = UEF(\text{lb}/\text{ton}) \times (100 - \text{Removal efficiency}(\%))$$

Source: AP-42, Section 13.2.2, Unpaved Roads, January, 1995.

^a Annual VMT calculated as follows:

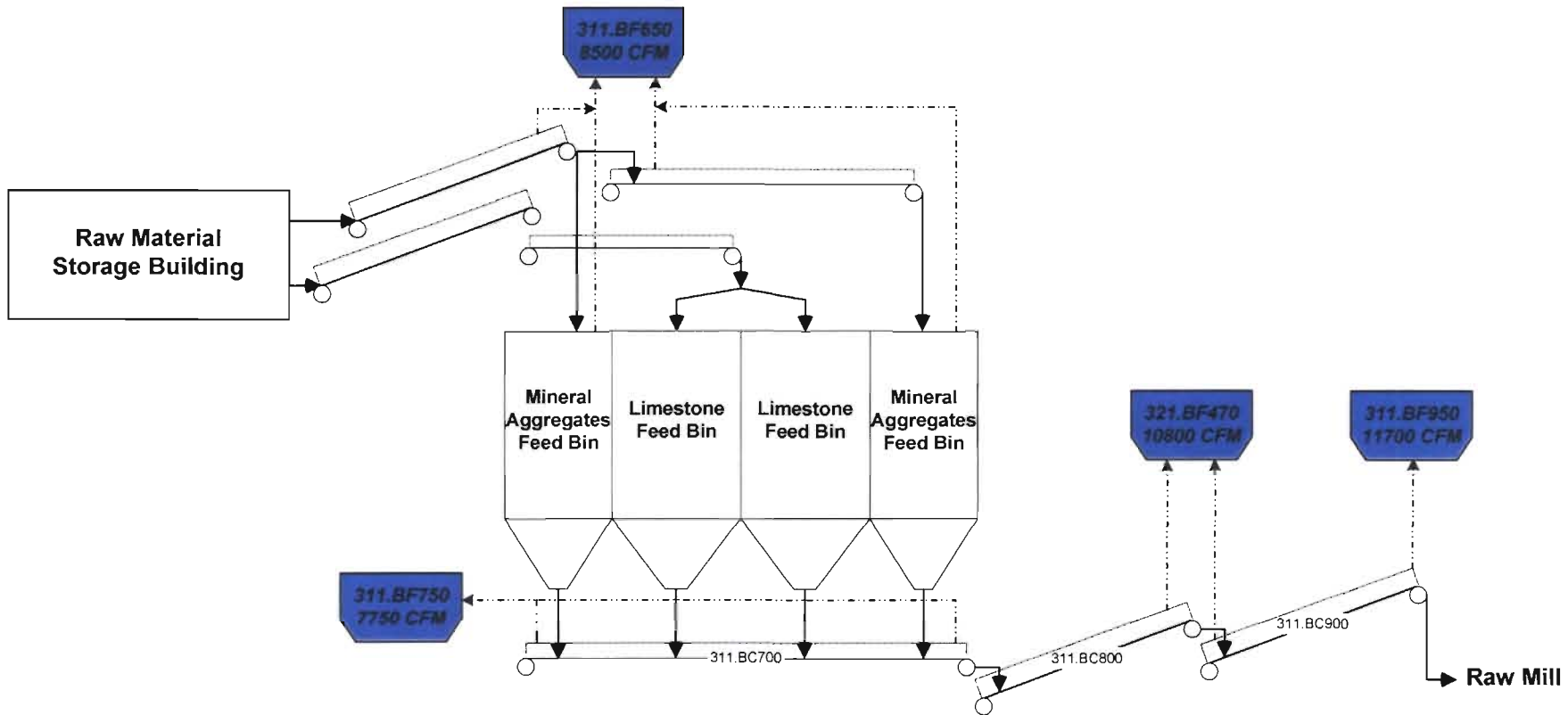
$$\begin{aligned} \text{Annual VMT} &= 266,700 \text{ TPY}/8 \text{ tons (bucket capacity of front-end loader)} \times 400 \text{ ft travel} \\ &\text{(truck unloading area to pile)} \times 1 \text{ mile}/5,280 \text{ feet} \times 1.15 \text{ (factor to account for pile maintenance activities)} \\ &= 2,904 \text{ miles/year} \end{aligned}$$

^b Tarmac Information.

^c Assumes 2,080 hr/yr operation.

ATTACHMENT TM-EU5-I1

PROCESS FLOW DIAGRAM



Raw Materials Handling [EU029]

DESCRIPTION

Attachment TM-EU5-I1
Process Flow Diagram

TITLE: **PENNSUCO CEMENT**

FILENAME: NEW PLOT PLANS.VSD/TM-EU5-I1

LAST REVISION DATE: 4/27/2005



ATTACHMENT TM-EU5-I3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

Attachment TM-EU5-I3. Control Equipment Information for Raw Material Handling

Source ID	Baghouse ID No.	Manufacturer	Model No.	Flow Rate		Cloth Area (ft ²)	Air to Cloth Ratio
				acfm	dscfm		
Raw Material Feed Bins	331.BF650	FLS Airtech	144C10	8,500	8,130	1,875	4.5
Raw Material Handling	331.BF750	FLS Airtech	144C10	7,750	7,413	1,875	4.1
Raw Material Handling	341.BF470	FLS Airtech	225C10	10,800	10,039	2,930	3.7
Raw Material Handling	351.BF950	FLS Airtech	225C10	11,700	10,876	2,930	4.0

ATTACHMENT TM-EU5-IV1

LIST OF APPLICABLE REGULATIONS

ATTACHMENT TM-EU5-IV1

**LIST OF APPLICABLE REGULATIONS
FOR RAW MATERIAL HANDLING**

62-296.320(4)(b) – General VE Standard

62-297.620(4), F.A.C. – 5-percent Opacity Limit in Lieu of Stack Testing

40 CFR 63.1342 – NESHAPs Subpart LLL – Standards: General

40 CFR 63.1348 – NESHAPs Subpart LLL – Material Handling Sources Opacity Limit

40 CFR 63.1349 – NESHAPs Subpart LLL – Performance Testing

40 CFR 63.1350 – NESHAPs Subpart LLL – Monitoring

40 CFR 63.1351 – NESHAPs Subpart LLL – Compliance Dates

40 CFR 63.1356 – NESHAPs Subpart LLL – Exemption from NSPS

40 CFR 63 – NESHAPs Subpart A – General Provisions

EMISSION UNIT 6

CEMENT STORAGE, PACKHOUSE, AND LOADOUT

EMISSIONS UNIT INFORMATION

Section [6]

Cement Storage, Packhouse & Loadout

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 [6]

Cement Storage, Packhouse & Loadout

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:
Cement Storage Silos 1-12, Packhouse & Bulk Loadout Units 1-3

3. Emissions Unit Identification Number: **014, 015, and 016**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--------------------------------	--------------------------	--	--

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

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:
Original ARMS ID Nos. are 014, 015, and 016, for the Cement Silos, Bulk Loadout units Nos. 1, 2, and 3, and Packhouse, respectively.

EMISSIONS UNIT INFORMATION

Section [6]

Cement Storage, Packhouse & Loadout

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Baghouses (13)

Process Enclosures

2. Control Device or Method Code(s): **018, 054**

EMISSIONS UNIT INFORMATION

Section [6]

Cement Storage, Packhouse & Loadout

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 500 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: Maximum process rate is limited by Permit No. 0250020-016-AC. See Attachment TM-EU6-B6 for maximum individual process rates.

EMISSIONS UNIT INFORMATION

Section [6]

Cement Storage, Packhouse & Loadout

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: EU 014, 015, 016		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: 13 baghouses. See Attachment TM-EU6-C15.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 200 feet	7. Exit Diameter: 1 feet	
8. Exit Temperature: 200 °F	9. Actual Volumetric Flow Rate: 18,000 acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: 45,245 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 for Baghouses F-511. Refer to Attachment TM-EU6-C15 for stack parameters of other baghouses.			

EMISSIONS UNIT INFORMATION

Section [6]

Cement Storage, Packhouse & Loadout

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Mineral Products; Cement Manufacturing Dry Process; Cement storage silos		
2. Source Classification Code (SCC): 3-05-006-18		3. SCC Units: Tons Cement Produced
4. Maximum Hourly Rate: 500	5. Maximum Annual Rate: 2,400,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Hourly rate refers to combined rate to all cement silos as stated in Permit No. 0250020-016-AC. Annual rate reflects total cement production from 2,190,000 TPY of clinker production.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Mineral Products; Cement Manufacturing Dry Process; Cement Loadout		
2. Source Classification Code (SCC): 3-05-006-19		3. SCC Units: Tons Cement Produced
4. Maximum Hourly Rate: 500	5. Maximum Annual Rate: 2,400,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Hourly rate refers to combined rate to all cement Loadout units as stated in Permit No. 0250020-016-AC. Annual rate reflects total cement production from 2,190,000 TPY clinker production. Packhouse loadout rate limited to 170 tons/hr.		

EMISSIONS UNIT INFORMATION

Section [6]

Cement Storage, Packhouse & Loadout

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	018		EL
PM ₁₀	018		EL

EMISSIONS UNIT INFORMATION

Section [6]
Cement Storage, Packhouse & Loadout

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter Total - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: 7.13 lb/hour 31.2 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: 0.01 gr/acf Reference: Manufacturer Info.	7. Emissions Method Code: 0
8. Calculation of Emissions: See Attachment TM-EU6-F1.8.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [6]
Cement Storage, Packhouse & Loadout

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter Total - PM

**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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/acf	4. Equivalent Allowable Emissions: 7.13 lb/hour 31.2 tons/year
5. Method of Compliance: EPA Method 9	
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):	

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 [6]
Cement Storage, Packhouse & Loadout

POLLUTANT DETAIL INFORMATION

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

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: 7.13 lb/hour 31.2 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: 0.01 gr/acf Reference:	7. Emissions Method Code: 0
8. Calculation of Emissions: See Attachment TM-EU6-F1.8.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [6]
Cement Storage, Packhouse & Loadout

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

**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 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/acf	4. Equivalent Allowable Emissions: 7.13 lb/hour 31.2 tons/year
5. Method of Compliance: EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.01 gr/acf	4. Equivalent Allowable Emissions: 0.52 lb/hour 2.26 tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Emission limit applies only to Cement Silos 7-9, Baghouse F-512, per PSD-FL-236.	

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 [6]

Cement Storage, Packhouse & Loadout

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: 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: 5-percent opacity in lieu of stack test. Rule 62-297.620(4), F.A.C.	
5. Visible Emissions Comment:	

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: Annual VE test, EPA Method 9	
5. Visible Emissions Comment: 40 CFR 63.1348.	

EMISSIONS UNIT INFORMATION

Section [6]

Cement Storage, Packhouse & Loadout

H. CONTINUOUS MONITOR INFORMATION

Complete 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 [6]

Cement Storage, Packhouse & Loadout

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: TM-EU6-11 <input type="checkbox"/> Previously Submitted, Date _____
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: TM-EU6-13 <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [6]

Cement Storage, Packhouse & Loadout

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: TM-EU6-IV1 <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring <input checked="" type="checkbox"/> Attached, Document ID: CAM Plan <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
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 checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [6]

Cement Storage, Packhouse & Loadout

Additional Requirements Comment

[Empty rectangular box for additional requirements comment]

ATTACHMENT TM-EU6-B6

OPERATING CAPACITY COMMENT

Table TM-EU6-B6. Individual Maximum Process Rates for Cement Storage/Loadout/Packhouse
(EU 014, 015, and 016), Titan America, Pennsuco.

Source	Maximum Operating Hours (hr/yr)	Maximum Process Rate	
		TPH	TPY ^a
Cement Silos 1-6	8,760	500	2,400,000
Cement Silos 7-9	8,760	500	2,400,000
Cement Silo 10-12	8,760	500	2,400,000
Bulk Loadout Unit 1	8,760	500	2,400,000
Bulk Loadout Unit 2	8,760	500	2,400,000
Bulk Loadout Unit 3	8,760	500	2,400,000
Packhouse	8,760	170	1,489,200

^a Represents hourly process rate times 8,760 hr/yr, or 2,400,000 TPY total cement production, whichever is less.

Notes:

Process rate limit for all silo's combined is 500 TPH.

Process rate limit for all loadout unit's combined is 500 TPH.

ATTACHMENT TM-EU6-C15

EMISSION POINT COMMENT



Pennsuco Cement
Cement Storage/Loadout/Packhouse Baghouse Descriptions

Attachment TM-EU6-C15.

Summary of Stack Parameter Data for the Cement Storage/Loadout/Packhouse Baghouses

Emission Unit	Baghouse ID No.	Stack Height (ft)	Stack Diameter ^a (ft)	Exhaust Flow Rate (acfm)	Exhaust Temperature (°F)
Cement Silos 1-6	F-511	200	1	18,000	200
Cement Silos 7-9	F-512	200	1	10,000	200
Cement Silo 10	F-513	200	1	5,000	200
Cement Silo 11	F-514	200	1	5,000	200
Cement Silo 12	F-515	200	1	5,000	200
Bulk Loadout - Unit 1	B-210	30	1	3,000	200
Bulk Loadout - Unit 2	B-110	30	1	3,000	200
Bulk Loadout - Unit 3	B-372	12	1	2,000	200
Bulk Loadout - Unit 3	B-374	12	1	2,000	200
Bulk Loadout - Unit 3	B-382	86	1	5,000	200
Packhouse	BF-120	30	1.5	4,000	275
Packhouse	BF-200	60	1.5	6,200	275
Packhouse	BF-400	50	1.5	15,000	250

^a Stack for baghouses B-110 and B-210 are circular; all other baghouse stacks are rectangular. For rectangular stacks, approximate effective stack diameter is shown.

ATTACHMENT TM-EU6-F1.8

EMISSION CALCULATIONS



Pennsuco Cement
Cement Storage/Loadout/Packhouse Baghouse Descriptions

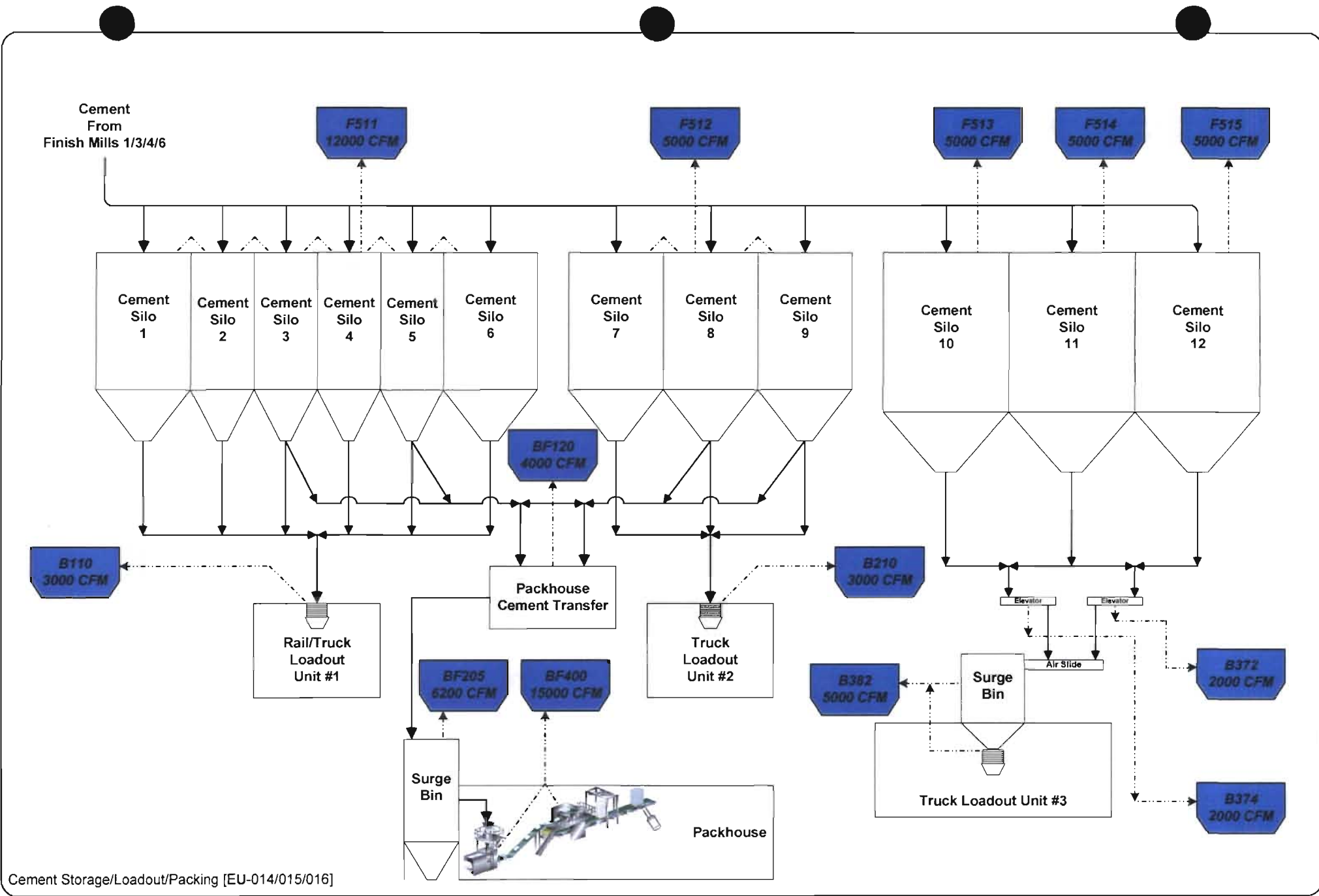
Attachment TM-EU6-F1.8. Cement Storage/Loadout/Packhouse (EU ID Nos. 014, 015, and 016) Potential Emission Rates: **2,400,000 TPY Cement**

Emission Unit	Baghouse ID No.	New or Existing	Operating Hours (hr/yr)	Exhaust Flow Rate (acfm)	Potential PM/PM10 Emission Rate ^a		
					gr/acf	lb/hr	TPY
Cement Silos 1-6	F-511	Existing	8,760	18,000	0.01	1.54	6.76
Cement Silos 7-9	F-512	Existing	8,760	10,000	0.01	0.86	3.75
Cement Silo 10	F-513	Existing	8,760	5,000	0.01	0.43	1.88
Cement Silo 11	F-514	Existing	8,760	5,000	0.01	0.43	1.88
Cement Silo 12	F-515	Existing	8,760	5,000	0.01	0.43	1.88
Bulk Loadout - Unit 1	B-210	Existing	8,760	3,000	0.01	0.26	1.13
Bulk Loadout - Unit 2	B-110	Existing	8,760	3,000	0.01	0.26	1.13
Bulk Loadout - Unit 3	B-372	Existing	8,760	2,000	0.01	0.17	0.75
Bulk Loadout - Unit 3	B-374	Existing	8,760	2,000	0.01	0.17	0.75
Bulk Loadout - Unit 3	B-382	Existing	8,760	5,000	0.01	0.43	1.88
Packhouse	BF-120	New	8,760	4,000	0.01	0.34	1.50
Packhouse	BF-200	New	8,760	6,200	0.01	0.53	2.33
Packhouse	BF-400	New	8,760	15,000	0.01	1.29	5.63
Revised Potential Emission Rates =						7.13	31.24

^a PM₁₀ emission rate calculated as 100 percent of PM emissions.

ATTACHMENT TM-EU6-I1

PROCESS FLOW DIAGRAM



Cement Storage/Loadout/Packing [EU-014/015/016]

DESCRIPTION Attachment TM-EU6-11 Process Flow Diagram	TITLE: PENNSUCO CEMENT	
	FILENAME: NEW PLOT PLANS.VSD/TM-EU6-11	
	LAST REVISION DATE: 4/27/2005	

ATTACHMENT TM-EU6-I3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

Attachment TM-EU6-I3a. Control Equipment Information for Cement Storage and Loadout Baghouses, Titan America, Pennsuco

Source ID	Baghouse ID	Manufacturer	Model No.	Number of Bags	Flow Rate (acfm)	Cloth Area (ft ²)	Air to Cloth Ratio
Cement Silos 1-6	F-511	Fuller	2 zone #78	156	18,000	1,625	11.1
Cement Silos 7-9	F-512	Norblo	156 AMT	156	10,000	2,142	4.7
Cement Silo 10	F-513	Mikropul	121S-10-20B	121	5,000	1,424	3.5
Cement Silo 11	F-514	Mikropul	121S-10-20B	121	5,000	1,424	3.5
Cement Silo 12	F-515	Mikropul	121S-10-20B	121	5,000	1,424	3.5
Bulk Loadout Unit 1	B-210	Norblo	120 AMT	120	3,000	1,650	1.8
Bulk Loadout Unit 2	B-110	Norblo	120 AMT	120	3,000	1,650	1.8
Bulk Loadout Unit 3 Line 1	B-372	Mikropul	36S-8-30-C	36	2,000	340	5.9
Bulk Loadout Unit 3 Line 2	B-374	Mikropul	36S-8-30-C	36	2,000	340	5.9
Bulk Loadout Unit 3 Airslide	B-382	Mikropul	121S-10-20C	121	5,000	1,424	3.5



Pennsuco Cement
Packhouse Baghouse Descriptions

Attachment TM-EU6-I3b.
Control Equipment Information for Packhouse

	BF-120	BF-200	BF-400
ID No:	100TA8	144TA8	304C10
Model:	FLS Airtech's Model "TA" Series Jet Pulse	FLS Airtech's Model "TA" Series Jet Pulse	FLS Airtech's Model "C" Series Jet Pulse
Make:	4,000 acfm	6,200 acfm	15,000 acfm
Design Air Volume:	275°F Max.	275°F Max.	250°F
Design Air Temperature:	Cement	Cement	Cement
Dust:	= 5.0 grains per ACF	= 5.0 grains per ACF	= 5.0 grains per ACF
Inlet Grain Loading:	0.01 grains per ACF	0.01 grains per ACF	0.01 grains per ACF
Outlet Grain Loading:	1,047 ft ²	1,508 ft ²	3,958 ft ²
Total Filter Area:	3.82:1	4.11 to 1	3.8 to 1
Air to Cloth Ratio:	140 FPM	158 FPM	
Interstitial Velocity:	6' 2½" x 6' 2½"	7' 6½" x 7' 4½"	11' - 11" x 9' - 6"
Baghouse Foot Print:	23' 5" from hopper flange to top of Handrail	15' 10" from hopper flange to top of Handrail	34' - 1"
Overall Height:	10 to 20 scfm @90 psig and 200 milliseconds	15 to 30 scfm @ 90 psig and 200 milliseconds	
Compressed Air Used:	Top	Top	Side
Filter Access:	100 bags	144 bags	304 bags
Filter Quantity:	5" Diameter x 96" long	5" Diameter x 96" long	5" Diameter x 120" long
Filter Size:	+/- 20" w.c.	+/- 20" w.c.	+/- 20" w.c.
Design Pressure:			

ATTACHMENT TM-EU6-IV1

LIST OF APPLICABLE REGULATIONS

ATTACHMENT TM-EU6-IV1**LIST OF APPLICABLE REGULATIONS
FOR THE CEMENT STORAGE, LOADOUT, AND PACKHOUSE**

- 62-297.620(4), F.A.C. – 5-percent Opacity Limit in Lieu of Stack Testing
- 40 CFR 63.1342 – NESHAPs Subpart LLL – Standards: General
- 40 CFR 63.1348 – NESHAPs Subpart LLL – Material Handling Sources Opacity Limit
- 40 CFR 63.1349 – NESHAPs Subpart LLL – Performance Testing
- 40 CFR 63.1350 – NESHAPs Subpart LLL – Monitoring
- 40 CFR 63.1351 – NESHAPs Subpart LLL – Compliance Dates
- 40 CFR 63.1356 – NESHAPs Subpart LLL – Exemption from NSPS
- 40 CFR 63 – NESHAPs Subpart A – General Provisions

PERMITTEE:

Titan America
455 Fairway Drive
Deerfield Beach, Florida 33441

Permit No.	0250020-016-AC
Project:	Modify Modernization Project
SIC:	3241 Cement, Hydraulic
Expires:	October 31, 2005

Authorized Representative:

Hardy Johnson, President
Florida Division, Tarmac America

PROJECT AND LOCATION:

Re-issuance and modification of Air Construction Permit 0250020-010-AC issued on May 1, 2001 for modernization of the Titan America Pennsuko Cement Plant. This air construction permit reflects the final configuration and operating parameters of baghouses, finish mills and the coal mill.

The Titan America Pennsuko Cement Plant is located at 11000 NW 121 Way, Medley, Dade County. UTM coordinates are Zone 17; 562.8 km E; 2861.7 km N.

STATEMENT OF BASIS:

This air construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The above named permittee is authorized to construct/operate the facility in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

Attached appendices made a part of this permit:

Appendix GC Construction Permit General Conditions

Michael G. Cooke, Director
Division of Air Resource
Management

SECTION I. GENERAL INFORMATION

FACILITY DESCRIPTION

This facility consists of a dry process portland cement manufacturing plant which includes a coal handling system; raw feed system; kilns; coolers; finish mills; clinker and cement storage and handling systems; and a cement distribution system. The facility also consists of a non-metallic mineral processing plant, and ready-mix concrete block and batch plants, located adjacent to the portland cement manufacturing plant.

EMISSIONS UNITS

This permit addresses the following emissions units. Emission Units shown as stricken-through are no longer permitted to operate.

EMISSION UNIT NO.		EMISSION UNIT DESCRIPTION
Permit 0250020-016-AC	Permit 0250020-010-AC	
003	-	Coal Handling
004	-	Kiln No. 2
005	-	Cooler No. 2
006	-	Kiln No. 3
007	-	Cooler No. 3
008	-	Clinker Handling and Storage for Kiln No. 2
009	-	Clinker Handling and Storage for Kiln No. 3
010	-	Finish Mill No. 1
011	-	Finish Mill No. 2
012	003	Finish Mill No. 3
013	003	Finish Mill No. 4
014	004	Cement Storage Silos 1 through 12
015	004	Cement Distribution, Rail and Truck Loadout
016	004	Cement Packhouse
020	-	Slag Dryer
021	-	Insufflation
026	001	Coal Handling System
027	002	Clinker Handling and Storage
028	005	Raw Mill and Pyroprocessing System
029	006	Raw Material Handling
030	003	Finish Mill No. 6

REGULATORY CLASSIFICATION

Because potential emissions of at least one regulated pollutant exceed 100 tons per year, the existing facility is a Title V Source and major source of air pollution in accordance with Chapter 62-213, F.A.C. Regulated pollutants include pollutants such as nitrogen oxides (NO_x), particulate matter (PM/PM₁₀), and sulfur dioxide (SO₂).

In addition, this facility is a major source of hazardous air pollutants (HAPs), based upon potential emissions of hydrogen chlorides.

RELEVANT DOCUMENTS

The construction permit application 0250020-016-AC was received March 4, 2004. The last round of additional application information was received on February 8, 2005.

SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

This permit supersedes construction permit 0250020-010-AC, dated May 1, 2001. The specific conditions of the attached air construction permit 0250020-010-AC are incorporated into this air construction permit except for the changes indicated in each of the sections that follow.

Section II, Facility-Wide Specific Conditions A.1 through A.33 in Permit 0250020-010-AC dated May 1, 2001 are adopted in their entirety except for the amendments shown below:

1. Permitting Authority:

For this permit, the permitting authority is the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection (FDEP), at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and phone number (850)488-0114.

2. Completion of Construction: The permit expiration date is October 31, 2005.

3. Application for Title V Permit Revision: The Applicant's Title V Renewal application due April 25, 2005 shall include all operations described in this air construction permit.

4. Permanent Shut Down of Certain Equipment: The following equipment has been permanently shut down or was never built, or never operated. It shall remain permanently shut down as a condition of the operation of the plant modernization and operation of Kiln No. 5 and associated equipment.

- Kilns 1, 2, 3, and 4
- Coolers 1, 2, 3, and 4
- Finish Mills 2 and 5
- Clinker Handling and Storage for Kilns 2 and 3
- All slag dryer
- Insufflation of cement kiln dust

[Applicant Request: Section 62-212.400, F.A.C. To Avoid Exceeding Significant Emissions Rates]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Section III, Emission Units Specific Conditions B.0 through B.33 in Permit 0250020-010-AC dated May 1, 2001 are adopted in their entirety and modified as shown below. Additions are highlighted, and deletions are shown by strikethroughs.

B.0. Operational Requirements, Emissions Limitations and Performance Standards Attachments

~~“40CFR63, Subpart A” is incorporated by reference. These emissions unit shall comply with the 40 CFR 63, Subpart EEE - National Emissions Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry for Major Sources of HAPs, and 40 CFR 63, Subpart A - General Provisions for Subpart EEE - Portland Cement Plants.~~

EMISSIONS UNIT NO. ~~026001~~ – COAL HANDLING SYSTEM

Operational Requirements

B.1 Hours of Operation ~~These process~~ This emissions unit may not operate in excess of 7,884 hours per year except the railcar fuel dump hopper, coal and petcoke feed bins and transfer equipment and baghouses 2461.BF0130 and 2461.BF02230 which may not exceed 4,000 hours per year. ~~The coal mill may be operated for 400 of its allowed 7,884 hours per year when the Salt Cooler/Raw Mill is not operating.~~

~~[Requested by permittee in application received November 14, 2000 Applicant request Permit 0250020-010-AC]~~

B.2 Coal/Petroleum Coke Maximum Usage: The maximum combined usage of coal and petroleum coke is 30 TPH on a 24-hour block average and 190,000 TPY. The maximum petroleum coke usage rate shall not exceed 20 TPH on a 24-hour block average. ~~Daily records of usage must be kept on site and retained for a minimum of 5 years.~~

~~[Rule 62-210.200 & 62-4.070(3) F.A.C. established by permittee in application received November 14, 2000 Applicant request Permit 0250020-010-AC Rule 62-4.070(c), F.A.C.]~~

B.3 Particulate and Fugitive Emissions: Particulate and fugitive emissions from coal handling facilities shall be minimized by following the procedures listed below:

- (1) All conveyers and transfer points shall be enclosed or covered to preclude particulate emissions (except those directly associated with coal stacking/reclaiming).
- (2) Coal storage piles shall be shaped, compacted and oriented to minimize wind erosion.
- (3) Water sprays or chemical wetting agents and stabilizers shall be applied to storage piles, handling equipment, etc., during dry periods as necessary to all facilities to maintain an opacity of less than 20 percent at the property line for fugitive emission sources.

~~[Rule 62-296.320(4)(c), F.A.C.; 62-4.070(3) Permit 0250020-010-AC]~~

Emissions Limitations and Performance Standards

B.4 Design Specifications and Particulate Matter Emissions Limits:

- 1 The baghouses for the coal handling system have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits listed in the following table:

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Coal Handling System Process Unit	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/dscf)	Flow Rate acfm (dscfm)	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM ₁₀ Emissions Limits	
							(lb/hr)	(TPY)
Dump Hopper (Transfer)	2461-BF13001 FLS Airtech 361A X 10FM	0.0095 0.01	14002,700 (1339)2,700	Pending 469	Pending 3.0:1	0.39	0.1123	0.2246
Conveyors (2) (Transfer) & Coal and Petroleum Coke Feed Bins	2461-BF13002 FLS Airtech 361A X 10FM	0.0095 0.01	14006,400 (1339)6,400	Pending 469	Pending 3.0:1	0.92	0.1155	0.2241-10
Coal Mill *	461-BF13004 Pending Pending	0.01	54,500 (45245) 43,600	Pending	Pending	12.37	3.8874	0.78 14.73
Coke/Petroleum Coke (Transfer) Surge Bin (Feeder)	461-BF15002 FLS Airtech 800/7	0.0095 0.01	291800 (243)665	Pending 75	Pending 3.0:1	0.19	0.026	0.0822
Coal (Transfer) Surge Bin (Feeder)	461-BF15003 FLS Airtech 800/7	0.0095 0.01	291800 (243)665	Pending 75	Pending 3.0:1	0.19	0.026	0.0822
Coal Mill Feed	461-BF1350	0.01	5,500 (5261)	Pending 1575	Pending 3.5:1		0.35	1.78
Total						14.06	4.59 4.64	15.15 16.73

The emission limit of 0.125 lb/ton of dry clinker for the Main Stack for the Raw Mill and Pyroprocessing includes emission from the Coal Mill which are also vented to the atmosphere through the Main Stack. So that Termaco may operate the coal mill when the Raw Mill and Pyroprocessing are down, 400 hours of emissions (1.78 TPY) from the Coal Mill operating alone are included here. The emissions associated with the additional 7484 hours of operation for the coal mill are included with the potential emissions for the Main Stack.

Notes:

1. All of the above process units equipment, except for the dump hopper with baghouse 2461-BF13001, are subject to 40 CFR 60, Subpart Y, NSPS for Coal Preparation Plants.
2. The pending information listed in this table will be submitted to the DERM Air Facilities Section within 30 days of issuance of this final permit at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.
- Emissions of Particulate Matter from each of the baghouses on the coal handling system shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf). Assume PM-10 = 84% of PM for all baghouses. [Requested by Permittee in application received November 14, 2000.]
1. Initial and annual compliance testing requirements for PM emissions from all emissions points listed above, except 461-BF13004 serving the Coal Mill, are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5.

[Rule 62-297.620(4), F.A.C. Permit 0250020-010-AC Applicant request to Escape BACT]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.5 Coal Handling Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

	Baghouse Id. No.	Visible Emissions Limit	Rule Applicability
Dump Hopper (Transfer)	2461-BF13001	20% with PM testing 5% w/out PM testing	Rule 62-296.320(4)(b)1, F.A.C. Rule 62-297.620(4), F.A.C.
Conveyors (2) Coal & Petroleum Coke Feed Bins (shared with conveyors)	2461-BF23002	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.
Coal Mill Dust Collector*	461-BF30004	10% ⁽⁴⁾	40 CFR 63.1345
Coke/Coal Surge Bins	461-BF75002	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.
	461-BF65003	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.
Coal Mill Feed	461-BF350	20% with PM testing 5% w/out PM testing	40 CFR 60, Subpart Y Rule 62-297.620(4), F.A.C.

Note: *This emissions unit discharges to the common (main) stack. The Clinker Cooler which is limited to 10% opacity, discharges to the common (main) stack and therefore determines the opacity limit for this emissions unit. [40 CFR 63.1345(a)(2)]

EMISSIONS UNIT NO. 027002 – CLINKER HANDLING & STORAGE SYSTEM

Operational Requirements

B.6 Hours of Operation: These process This emissions units may not operate in excess of the following:

Process Unit	Baghouse ID No.	Hours Per Year
Clinker Silos 21, 23 & 26-28	E633	8,760
Clinker transfer conveyors from cooler	441-BF54004	7,884
Clinker Silos	481-BF14004	7,884
Clinker Transfer Conveyors	481-BF54002	8,760
Clinker Off-spec Bins	481-BF33003	8,760
Clinker transfer	481-BF640	8,760
Clinker transfer	481-BF730	8,760
Clinker transfer	481-BF930	8,760
Clinker transfer	K347	0
Clinker transfer	K447	0

Clinker transfer baghouses K347 and K447 have been removed.

[Requested by permittee in application received November 14, 2000 Applicant request Permit 0250020-010-AC]

B.7 Clinker Handling & Storage Throughput Limits: The clinker handling and storage maximum hourly and annual throughput rates shall not exceed 320 TPH on a 24-hour block average or 1,942,500 TPY, respectively. [Applicant request Permit 0250020-010-AC Rules 62.4.070(3)]
[Requested by permittee in application received November 14, 2000 Applicant request;]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Emissions Limitations and Performance Standards

B.8 Design Specifications and Particulate Matter Emissions Limits:

The baghouses for the clinker handling and storage system have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits shown in the following table:

System Process/Units	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/dscf)	Flow Rate acfm (dscfm)	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM Emissions (lb/hr)	PM Limits (TPY)
Clinker Silos 21 & 26-28	6633	0.01 (gr/dscf)	6,000				0.51	2.25
Clinker Transfer Conveyors Burner Building from Clinker	441.BF54004 FLS Airtech 100C10	0.0095 0.01	4,600(3,000) 3,421(2,494)	1302	3.5:1	0.71	0.28	1.10 0.84
Clinker Silo	481.BF14004 FLS Airtech 196C10	0.0095 0.01	10,120(8,000) 8,924(8,315)	2552	4.7:1	2.36	0.78	2.86
Clinker Transfer Conveyors	481.BF54002 FLS Airtech 100C10	0.0095 0.01	4,700(3,000) 3,495(2,494)	1302	3.6:1	0.79	0.28	1.25 0.94
Clinker Off-spec Bins	481.BF54003 FLS Airtech 100C10	0.0095 0.01	6,100(5,000) 4,536(4,157)	1302	4.7:1	1.31	0.37	1.62 1.56
Clinker transfer	481.BF640	0.0095	4,700 (3,495)	1302	3.6:1		0.28	1.25
Clinker transfer	481.BF1730	0.0095	18,700 (13,906)	3958	4.7:1		1.13	4.96
Clinker transfer	481.BF930	0.0095	15,000 (11,155)	3958	3.8:1		0.91	3.98
Total						5.17	1.50	19.26 6.15

Notes:

- All the above silos and bins equipment are subject to 40 CFR 63 Subpart LLL, NESHAPS for Portland Cement Manufacturing Industry.
- The pending information listed in this table will be submitted to the DERM Air Facilities Section at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.
- Grain loading of 0.01 gr/dscf proposed permit limits for all the above baghouses and assume PM10-10 = 84% of PM for all baghouses. [Requested by Permittee in application Received November 14, 2000]
- Initial and annual compliance testing requirements for PM emissions from all emissions points listed above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C.]

Permit 0250020-010-AC Applicant request for scope BAC1

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.9 Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

System Process Unit	Baghouse Id. No.	Visible Emissions Limit	Rule Applicability
Clinker Silos 21-23 & 25-28	F633	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), T.A.C.
Clinker Transfer Conveyors Burner Building from cooler	441.BF54004	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker Silos	481.BF14004	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker Transfer Conveyor	481.BF54002	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker Off-spec Bins	481-BF33003	10% with PM testing 5% w/out PM testing	Permit 0250020-010-AC 40 CFR 63.1348
Clinker transfer	481.BF640	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), T.A.C.
Clinker transfer	481.BF730	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), T.A.C.
Clinker transfer	481.BF930	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 Rule 62-297.620(4), T.A.C.

[Permit 0250020-010-AC; Rule 62-4070(3), T.A.C.; 40 CFR 63.1348]

EMISSIONS UNITS NOS. 003, 010, 012, 013, 014 and 030 – FINISH MILLS

Operational Requirements

B.10 Hours of Operation: These emissions units may operate continuously, i.e., 7,884 8,760 hours per year. [Requested by permittee in application received November 14, 2000 Applicant request received February 8, 2005.]

B.11 Finish Mill Process Rates: The maximum total hourly process rate of cement is 334,359.0 TPH on a 24-hour block average. This is a total of the individual process rates listed below:

Finish Mill No.	Baghouse	Process Rate (TPH)
No. 1	F11301 / 301330	25
No. 3	533.BF340 F-313 / F-330 / F-332	84
No. 4	F-430 / F-432 / F-603 / F-604 / F-605	140
No. 6	531.BF01 / 531.BF02	110
Total		334,359

The owner or operator shall record all hourly process rates and maintain records for a minimum of one year. [Applicant request received February 8, 2005; Permit 0250020-010-AC, Rules 62-4070(3) and 62-213.440, T.A.C.] [Established by Permittee in application received November 14, 2000.]

Emissions Limitations and Performance Standards

B.12 Design Specifications and Particulate Matter Emissions Limits:

- The baghouses for the finish mills have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits shown in the following table:

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

System Emissions Unit	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/acf)	Flow Rate acfm dscfm	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM ₁₀ Emissions Limits	
							(lb/hr)	(TPY)
Finish Mill No. 1	F-113 Mikropul 161F-10-20	0.01	11,800	2,100	5.6		1.01	3.99
Finish Mill No. 2	F-130 Norblo 168 AMT	0.01	12,000	1,977	6.1		1.01	4.05
Finish Mill No. 3	F-330 Norblo 702 AMT	0.01	20,000	9,477	2.1	6.34	1.71	6.76 7.54
Finish Mill No. 3	F-332 Norblo 390 AMT	0.01	13,500	5,465	2.5	4.26	1.16	4.56 5.07
Finish Mill No. 3 <i>O-Sepa Cement Separator</i>	531.BF01 F-313 Mikropul 196S-10-20	0.0095 0.01 0.01	77,800 (65,307 dscfm) 8,000	2,300 Pending	3.5 Pending	2.52	5.32 0.69	20.96 3.00
Finish Mill No. 4 <i>Belt conveyor/ Separator</i>	F-432 Fuller 5 zone #48	0.01	17,000	2,510	6.8	5.36	1.46	5.74 6.38
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-605 Mikropul 645-10-30	0.01	4,000	753	5.3	1.26	0.34	1.35 1.50
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-603 Mikropul 121S-10-20	0.01	8,000	1,424	5.6	2.52	0.69	2.70 3.00
Finish Mill No. 4 <i>Ball Mill/Mill Sweep</i>	F-430 Fuller 6 zone #96	0.01	30,000	6,028	5.0	9.46	2.57	10.14 11.26
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-604 Mikropul 121S-10-20	0.01	8,000	1,424	5.6	2.52	0.69	2.70 3.00
Finish Mill No. 6 <i>Main</i>	531.BF01 Pending	0.0095 0.01 (gr/dscf)	97,300 (80,905 dscfm)	Pending	Pending	25.51	6.5993	25.97 30.37
Finish Mill No. 6 <i>Sweep</i>	531.BF02 Pending	0.0095 0.01 (gr/dscf)	25,900 (21,536 dscfm)	Pending	Pending	6.79	1.7585	6.91 8.09
Total						66.52	18.09	24.31 79.19 95.85

Notes:

- Finish Mill Nos. 3 & 6 Emission Limits of 0.01 gr/acf, lb/hr, were requested by Permittee in application received November 14, 2000.

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

12 Initial testing to demonstrate compliance with the PM limits established above, shall be conducted only for units F-330, ~~533.BF340~~, F-430, 531.BF01, and 531.BF02. All subsequent compliance testing for PM emissions from the emission points in the table above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5.

13 The pending information listed in this table will be submitted to the DERM Air Facilities Section ~~within 30 days of issuance of this final permit~~ at the time of applying for the required building permits for the construction of the emissions units regulated in this permit:

- Emissions Limits for Finish Mill No. 4 are based on PSD-FL-236 dated July 1, 1998; and Permittee request in application received November 14, 2000.
- Finish Mill Nos. 3 & 4 are existing systems. Finish Mill No. 6 is a new system.

~~Applicant request to Escape BACF, Permit 0250020-010-AC, and Rule 62-297.620(4), F.A.C.~~

B.13 Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

<u>Emission Unit</u>	<u>Baghouse Id. No.</u>	<u>Visible Emissions Limits</u>	<u>Rule Applicability</u>
Finish Mill No. 1	F-113	10%	40 CFR 63.1347
	F-110		Rule 62-297.620(4), F.A.C.
Finish Mill No. 3	533.BF340	10% with initial PM testing 5% thereafter	40 CFR 63.1347
	F-313		Rule 62-297.620(4), F.A.C.
Finish Mill No. 4	F-330	10% with initial PM testing 5% thereafter	40 CFR 63.1347
	F-332	5%	Rule 62-297.620(4), F.A.C.
	F-430	5%	Rule 62-297.620(4), F.A.C.
Finish Mill No. 5	F-430	5%	PSD-FL-236
	F-432		
	F-603		
Finish Mill No. 6	F-604	10% with initial PM testing 5% thereafter	40 CFR 63.1347
	F-605		
	531.BF01		
	531.BF02		Rule 62-297.620(4), F.A.C.

~~Applicant request, Permit 0250020-010-AC, and Permit PSD-FL-236~~

EMISSIONS UNITS NOS. 004014/016/015 - CEMENT STORAGE SILOS/ PACKHOUSE/ LOADOUT

Operational Requirements

B.14. Hours of Operation: This emissions unit may operate continuously, i.e., 8,760 hours per year, except for the packhouse which shall not exceed 4,000 hours of operation per year.

[Requested by applicant permittee in application received November 14, 2000; ~~Permit 0250020-010-AC~~]

B.15. Cement Storage Silo/Packhouse/Loadout Process and Production Design Specifications: The maximum process input rate to each cement silo and loadout operation is 500 TPH on a 24-hour block average. The maximum production rate of cement in the Packhouse is 85 TPH on a 24-hour block average. [Permit AC13-21098 dated November 2, 1979, and ~~Permit 0250020-010-AC~~]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.16. Design Specifications and Particulate Matter Emissions Limits:

¶ The baghouses for the Cement Storage/Packhouse/Loadout system have the following or equivalent design specifications. Particulate Matter emissions shall not exceed the amounts shown in the following table:

System	Baghouse ID Manufacturer Model No.	Grain Loading Limit (gr/acf)	Flow Rate acfm [dscfm]	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	PM/PM10 Emissions Limits	
							(lbs/hr)	(TPY)
Cement Silos 1-6	F-511 Fuller 2 zone #78	0.01	18,000	1,625	11.1	5.68	1.54	6.76
Cement Silos 7-9	F-512 Norblo 156 AMT	0.01	10,000	2,142	4.9	3.15	0.86	3.75
Cement Silo 10	F-513 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Cement Silo 11	F-514 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Cement Silo 12	F-515 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Bulk Loadout Unit 1 (Rail/Truck)	B-110 Norblo 120 AMT	0.01	3,000	1,650	1.8	0.95	0.26	1.13
Bulk Loadout Unit 2 (Truck)	B-210 Norblo 120 AMT	0.01	3,000	1,650	1.8	0.95	0.26	1.13
Bulk Loadout Unit 3 Line 1	B-372 Mikropul 36S-8-30-C	0.01	2,000	340	5.9	0.63	0.17	0.75
Bulk Loadout Unit 3 Line 2	B-374 Mikropul 36S-8-30-C	0.01	2,000	340	5.9	0.63	0.17	0.75
Bulk Loadout Unit 3 Line 3	B-382 Mikropul 121S-10-20B	0.01	5,000	1,424	3.5	1.58	0.43	1.88
Packhouse ^(a)	B-621	0.01	23,400 [23,400]	Pending	Pending	3.37	1.19	5.20
Total						21.68	6.99	25.80

Notes: ^(a) Emissions reflect permit limits established in Permit No. PSD-FL-028 dated March 19, 1980

¶ Initial and annual compliance testing requirements for PM emissions from all emissions points listed above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C.]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

The pending information listed in this table will be submitted to the DERM Air Facilities Section ~~within 30 days of issuance of this final permit~~ at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.

Emissions reflect permit limits established in PSD-FL-028 dated March 19, 1980. [PSD-FL-028 dated March 19, 1980 and Requested by Permittee in application received November 14, 2000] [PSD-FL-028 dated March 19, 1980; Applicant requests dated Requested by Permittee in application Received November 14, 2000; and February 8, 2005]

B.17. Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

Cement Silos 1-6	F-511	10%	40 CFR 63.1348
Cement Silos 7-9	F-512	5%	PSD-FL-236
Cement Silos 10, 11, 12	F-513	5%	AC13-21098
	F-514		
	F-515		
Bulk Loadout Unit 1	B-110	10%	PSD-FL-236
Bulk Loadout Unit 2	B-210	10%	PSD-FL-236
Bulk Loadout Unit 3 Line 1	B-372	5%	AC13-21098
Bulk Loadout Unit 3 Line 2	B-374	5%	AC13-21098
Bulk Loadout Unit 3 Line 3	B-382	5%	AC13-21098
Packhouse	Pending	10%	40 CFR 63.1348
	B-621	5%	PSD-FL-028

EMISSIONS UNIT NO. 028005 - RAW MILL/ AND PYROPROCESSING SYSTEM

Operational Requirements

B.18 Hours of Operation: This emissions unit may not operate in excess of 7,884 hours per year except for the CF blend silo (and baghouse 341.BF15001) which may operate 8760 hours per year. [Requested by permittee in application received November 14, 2000; Applicant request Permit 0250020-010-AC]

B.19 Raw Mill/Pyroprocessing System Unit-Production Limits: The maximum production of clinker shall not exceed 250 TPH on a 24-hour block average and 1,642,500 TPY. [Rule 62-210.200 (228)(PTE), F.A.C.; and Application received November 14, 2000; Applicant request Permit 0250020-010-AC]

B.20 Operating Limits for In-line kiln/raw mills.

- (a) The owner or operator of a in-line kiln/raw mill subject to a D/F emissions limitation under 40 CFR 63.1343 must operate the in-line kiln/raw mill such that the temperature of the gas at the inlet to the kiln Particulate Matter control device (PMCD) does not exceed the applicable temperature limit specified in the following paragraph (b). ~~The owner or operator of an in-line~~

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Kiln/raw mill subject to a D/F emission limitation under 40 CFR 63.1343 must operate the in-line kiln/raw mill such that:

(1) When the raw mill of the in-line kiln/raw mill is operating, the applicable temperature limit for the main in-line raw mill exhaust, specified in the following paragraph (b) and established during the performance test when the raw mill was operating is not exceeded.

(2) When the raw mill of the in-line kiln/raw mill is not operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, specified in the following paragraph (b) and established during the performance test when the raw mill was not operating is not exceeded.

(b) The temperature limit for affected sources meeting the limits of paragraph (a) above is determined in accordance with the following: the run average temperature must be calculated for each run, and the average of the run average temperature must be determined and included in the performance test report and will determine the applicable temperature limit.

(c), (d), and (e) are deleted because the owner or operator do not employ carbon injection to control dioxin/furan.

[40 CFR 63.1344(a) & (b) and 63.1349(b)(3)(iv); Permit 0250020-010-AC]

B.21 Methods of Operation – Fuels:

Raw Mill and Pyroprocessing System Unit	Allowable Fuels
	Natural Gas, Bituminous Coal, Petroleum Coke, No. 2 Fuel Oil with used oil blend and No. 6 Fuel Oil with used oil blend. Fuel oil includes on-spec used oil.*

Note:

* "Non-hazardous, non-specification" used oil is defined as each used oil delivery that meets the 40 CFR 279 (Standards for the Management of Used Oil) specifications listed below. Used oil that does not meet all of the following specifications is considered "off-specification" oil and shall not be fired.

Constituent/Property	Allowable Level
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000-4000 ppm maximum*
PCBs	50 ppm maximum
Flash Point	100 °F minimum

The above parameters shall be as determined by approved methods specified in EPA Publication SW-846 (Test Methods for Evaluating Solid Waste, Physical/Chemical Methods).

Analysis of used oil fuel: The permittee may determine that the used oil to be burned for energy recovery meets the fuel specifications of §279.11 by performing analyses, or obtaining copies of analyses, or other information, documenting that the used oil fuel meets the specifications.

Record retention: The permittee must keep copies of analyses of the used oil (or other information used to make the determination) for three years.

[40 CFR 279.12; Permit 0250020-010-AC]

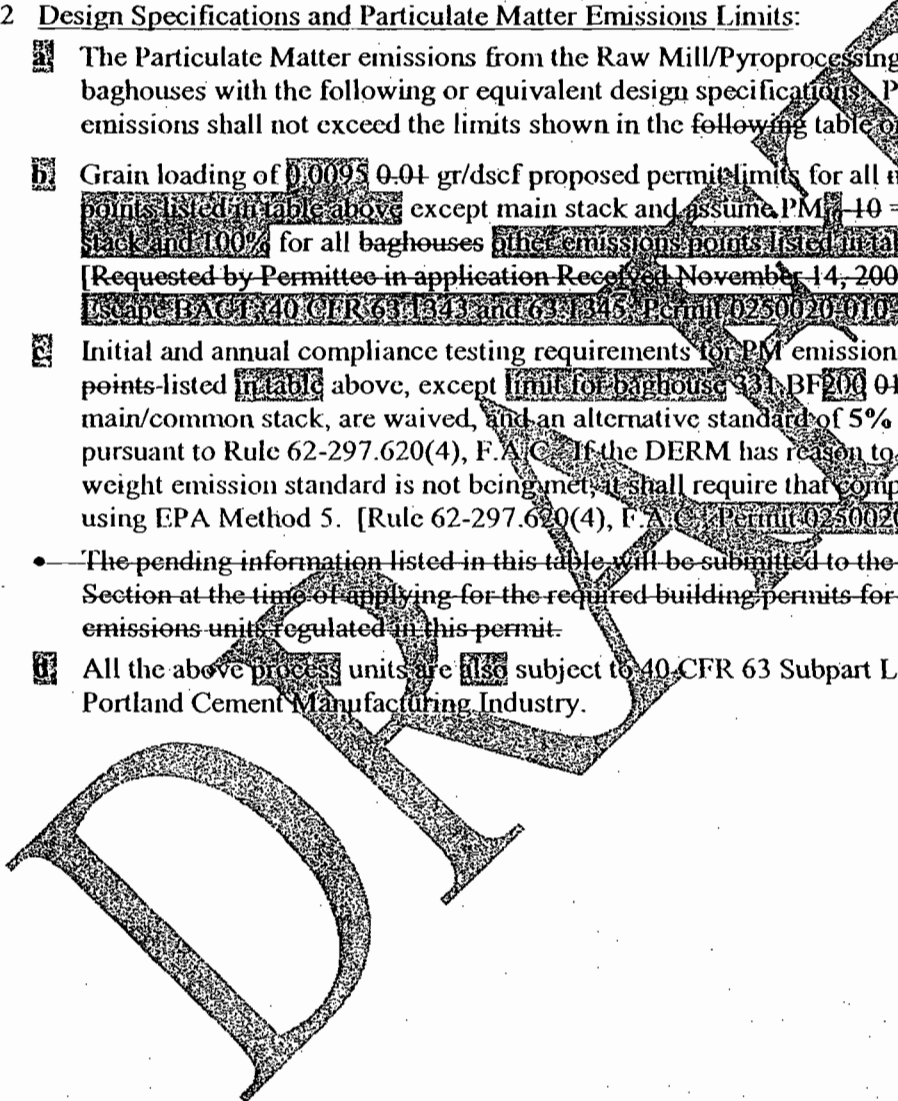
SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Permitting note: 40 CFR 271.10(b)(1)(ii) *Reliable presumption for used oil* Used oil containing more than 4000 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in subpart D of 40 CFR part 261. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by using an analytical method from SW-846 Edition III, 16.115, that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in appendix VIII of 40 CFR part 261). EPA Publication SW-846, Third Edition, is available from the Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954 (202) 512-1800; document number 985-004-00000-1. If successfully rebutted for used oil up to 4000 ppm total halogens, used oil up to 4000 ppm maximum total halogens may be fired.

Emissions Limitations and Performance Standards

B.22 Design Specifications and Particulate Matter Emissions Limits:

- a. The Particulate Matter emissions from the Raw Mill/Pyroprocessing system are controlled by baghouses with the following or equivalent design specifications. Particulate Matter emissions shall not exceed the limits shown in the following table on the following page:
- b. Grain loading of 0.0095-0.04 gr/dscf proposed permit limits for all new baghouses emissions points listed in table above except main stack and assume PM₁₀ = 84% of PM for main stack and 100% for all baghouses other emissions points listed in table above. [Requested by Permittee in application Received November 14, 2000. Applicant requests to escape BACT 40 CFR 63.1343 and 63.1345. Permit 0250020-010-AC]
- c. Initial and annual compliance testing requirements for PM emissions limits from all emissions points listed in table above, except limit for baghouse 331-BF200-01 which exhausts to the main/common stack, are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C. Permit 0250020-010-AC]
- The pending information listed in this table will be submitted to the DERM Air Facilities Section at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.
- d. All the above process units are also subject to 40 CFR 63 Subpart LLL, NESHAPS for Portland Cement Manufacturing Industry.



SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Particulate Matter from Raw Mill/Pyroprocessing

Raw Mill/ Pyroprocessing System Process Unit	Baghouse ID Manufacturer Model No.	Grain Loading Limit gr/dscf	Flow Rate acfm {dscfm}	Cloth Area ft ²	Air to Cloth Ratio	Potential PM ₁₀₋₁₀ Emissions Limit TPY	Potential PM Emissions Limit	
							lb/hr	TPY
Kiln/Cooler/ Raw Mill and Coal Mill when operated simultaneously Main Stack	331.BF2004 FLS Airtech MSC690D16(16)	0.125*	515,000 486,000 360,637 392,367	173,397 Pending	3.0:1 Pending	147.00	50.0 instantaneous 53.10 42.4 annual average of 7.88 lbs/acre	175.00
Kiln Dust Bin Kiln-Dust	331.BF7402 FLS Airtech 100C10	0.0095 0.01	4,250 6,800 (2,953) 4,175	1302 Pending	3.3:1 Pending	0.95 1.18	0.24 0.36	0.95 1.41
CB Blend Silo	341.BF5504 FLS Airtech 64C10	0.0095 0.01	4,760 6,250 (3,112) 5,189	833 Pending	4.5:1 Pending	1.11 1.64	0.25 0.44	1.31 1.95
Raw Meal Preheat Cyclone Tower	351.BF4104 FLS Airtech 64C10	0.0095 0.01	4,000 6,200 (3,310) 5,147	833 Pending	4.8:1 Pending	1.06 1.46	0.27 0.44	1.06 1.74
Raw Meal Preheat Cyclone Tower	351.BF4402 FLS Airtech 100C10	0.0095 0.01	4,760 3,000 (3,939) 2,491	1320 Pending	3.7:1 Pending	1.26 0.71	0.52 0.21	1.26 0.84
Raw Meal Preheat Cyclone Tower	351.BF4706 FLS Airtech 100C10	0.0095 0.01	4,100 10,400 (3,409) 8,634	1302 Pending	3.2:1 Pending	1.09 2.45	0.28 0.74	1.09 2.92
Kiln Dust Truck Loading	331.BF645	0.0095	5,500 (2,910)			0.93	0.24	0.93
Total						154.44	55.29	183.86

Notes: (*) Main Stack PM Emissions Limit is 0.125 lbs/ton of kiln feed.

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

B.23 SO₂, NO_x, CO, VOC, and SAM Emission Limits: The emissions from the Raw Mill/Pyroprocessing system shall not exceed the limits shown in the following table:

Pollutant	Allowable Emissions		Emissions Limits in lbs./ton of clinker		Monitors
	12-month rolling average in TPY (5)	Lbs./hr 24-hr average	24-hr avg. @208 TPH of clinker production (5)	24-hr average @250 TPH of clinker production	
SO ₂	806	320	1.54	1.28	CEM
NO _x	1953	720	3.46	2.88	CEM
CO (6)	1457	576	2.76	2.50	Process
VOC	155	40	0.19	0.16	CEM
SAM	8.68	2.24	0.009	0.009	-

Notes:

- (5) The 12-month rolling average in TPY would be the average of the daily values for the current month and the preceding 11 months. The averages shall be based on the operating days or hours, and shall exclude days or hours in which the plant is not operating.
- (6) The averaging time for CO corresponds to the required length of sampling for the initial and subsequent emission tests.

[Rules 62-4.070(3) and 62-212.400, F.A.C. Permit 0250020-010-AC]

B.24 PM/PM₁₀ and Dioxins/Furans Main Stack Emissions:

Pollutant	Allowable Emissions		Emissions		
	TPY	lbs./hr	Limit	Unit	Averaging Time
PM ₁₀	175	53.1	0.125	lbs./ton of dry kiln feed	3 hours
PM _{2.5}	147	42.0	0.105	lbs./ton of dry kiln feed	3 hours
Dioxins/Furans			0.20 or 0.40 when the average of the performance test run average PM control device inlet temperature is 204°C or less (Corrected to 9% O ₂)	ng TEQ/dsem	3 hours

Notes: The averaging times for PM and PM₁₀ correspond to the required length of sampling for the initial and subsequent emissions tests.

[Rules 62-4.070(3) and 62-212.400, F.A.C. 40 CER 63.1341, Permit 0250020-010-AC]

SECTION III. EMISSIONS UNIT'S SPECIFIC CONDITIONS

B.25. Sulfur Dioxide Emissions: Emissions of SO₂ shall not exceed 1.2 lb/MMBtu heat input when solid fuel is fired, or 0.8 lb/MMBtu heat input when liquid fuel is fired, based on a 24 hour average.

[Miami-Dade County Code, Section 24-17(2)(a); Permit 0250020-010-AC]

B.26. Mercury and Lead into the Pyroprocessing System Limited: The baseline potential emissions for mercury and lead, as stated in the Application received June 30, 1998, are 30 lbs/year and 94 lbs/year, respectively. An increase in mercury and lead emissions of 200 and 1,200 pounds, respectively, above the previously stated baseline emissions per consecutive 12-month period shall subject this facility to Prevention of Significant Deterioration (PSD) Review. [Rules 62-4.070(3) and 62-212.400, F.A.C.; Permit 0250020-010-AC]

B.27. Pursuant to 40 CFR 63.1343 Standards for Kilns and In-line Kiln/Raw Mills:

(a) *General*. The provisions in this section apply to each in-line kiln/raw mill.

(b) No owner or operator of a inline kiln/raw mill shall cause to be discharged into the atmosphere from these affected sources any gases which;

- (1) Contain particulate matter (PM) in excess of 0.15 kg per Mg (0.30 lb per ton) of feed (dry basis) to the kiln.
- (2) Exhibit opacity greater than 20 percent.
- (3) Contain D/F in excess of:
 - (i) 0.20 ng per dscm (8.7×10^{-11} gr per dscf)(TEQ) corrected to seven percent oxygen; or
 - (ii) 0.40 ng per dscm (1.7×10^{-10} gr per dscf)(TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 204 °C (400 °F) or less.

[40 CFR 63.1343(a) & (b); Permit 0250020-010-AC]

B.28 Engineering Design Capacities For The Raw Mill And Pyroprocessing System Unit:

Process Units Sources	Maximum Capacity (MMBtu/hr heat input)
Raw Mill Heat Input	105
Preheater/Calciner Heat Input	385
Kiln Heat Input	290
Total System Heat Input	675

[Application received November 14, 2000 Applicant Request; Permit 0250020-010-AC]

B.29 Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

Emissions Point	Baghouse Id. No.	Visible Emissions Limit	Permit/Rule Applicability
Main Dust Collector exhausts to Main/Common Stack	331.BF01200	10%	40 CFR 63.1342
Cement Kiln Dust Bin	331.BF02240		
Blending & Storage System	341.BF01350	10% with PM testing 5% w/out PM testing	40 CFR 63.1348 <u>Rule 62-297-620(4) F.A.C</u>
	351.BF02410		
	351.BF02440		
	351.BF03470		

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Note: (*) This emissions unit discharges to the common (main) stack. The Clinker Cooler which is limited to 10% opacity, discharges to the common (main) stack and therefore determines the opacity limit for this emissions unit. ~~The raw mill is also limited to 10% opacity. [40 CFR 63.1345(a)(2) and 63.1347; Permit 0250020-010-AC; Permit application 0250020-016-AC]~~

EMISSIONS UNIT NO. 029006 – RAW MATERIAL HANDLING

Operational Requirements

B.30. Hours of Operation: This emissions unit may not operate in excess of 7,884 hours per year, except for baghouse 232.BF01 for the lime/gypsum silos (existing silos) which shall not exceed 4,000 hours of operation per year. ~~[Requested by permittee in application received November 14, 2000 Applicant request; Permit 0250020-010-AC]~~

B.31. Raw Material Handling System Throughput Specification: The maximum dry throughput rate is shown in the following table:

Source Description	Throughput Maximum (TPY)
Raw Material Handling System	3,260,000 (dry)

~~The owner or operator shall record all throughput rates on a rolling 12-month basis and maintain records for a minimum of 3 years. [Applicant request; Permit 0250020-010-AC; Rules 62.1070(4) and 62.213-140, F.A.C.]~~

Emissions Limitations and Performance Standards

B.32. Design Specifications and Particulate Matter Emissions Limits:

a) The Particulate Matter emissions from the Raw Material Handling system are controlled by baghouses with the following or equivalent design specifications:

System Process Limits	Baghouse ID Manufacturer Model No	Grain Loading Limit gr/dscf	Flow Rate acfm [dscfm]	Cloth Area (ft ²)	Air to Cloth Ratio	Potential PM-10 Emissions (TPY)	Potential PM Emissions Limits	
							(lb/hr)	(TPY)
Lime/Gyp Silos	232.BF01	0.0095	5,170	Pending	Pending	0.74	0.42	0.34
	Pending	0.01	[5,170]				0.44	0.39
	Pending							
Additives Silo 1	311.BF75001	0.0095	8,500 11,000	Pending	Pending	3-12	0.66	2.01
	Pending	0.01	[8,130 11,000]				0.94	3.72
	Pending							
Additives Silo 2	311.BF75002	0.0095	7,500 6,050	Pending	Pending	1-37	0.60	1.38
	Pending	0.01	[7,413 4,840]				0.41	1.64
	Pending							
Additives Silo 3	311.BF75003	0.0095	10,300 10,000	Pending	Pending	2.84	0.82	1.22
	Pending	0.01	[10,039 10,000]				0.86	3.38
	Pending							
Additives Silo 4	311.BF75004	0.0095	11,700 10,000	Pending	Pending	2.84	0.89	1.19
	Pending	0.01	[10,876 10,000]				0.86	3.38
	Pending							
Total						10.91	3.51	13.01

Notes: Grain loading of 0.01 gr/dscf proposed permit limits for all baghouses listed above and assume PM-10 = 84% of PM. ~~[Requested by Permittee in application Received November 14, 2000]~~

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

b) Initial and annual compliance testing requirements for PM emissions from all emissions points listed above are waived, and an alternative standard of 5% opacity is imposed, pursuant to Rule 62-297.620(4), F.A.C. If the DERM has reason to believe that the particulate weight emission standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. [Rule 62-297.620(4), F.A.C.]

c) The pending information listed in this table will be submitted to the DERM Air Facilities Section ~~within 30 days of issuance of this final permit~~ at the time of applying for the required building permits for the construction of the emissions units regulated in this permit.

~~Permit 0250020-010-AC~~

B.33. Visible Emissions Limits: The baghouses listed below shall not equal or exceed the following visible emissions limits:

<u>Process Unit</u>	<u>Baghouse Id. No.</u>	<u>Visible Emissions Limit</u>	<u>Rule Applicability</u>
Lime/Gyp Silos	232.BF01	10% with PM testing 8% w/out PM testing	10 CFR 63.1341 Rule 62-297.620(4) F.A.C.
Additives Silo 1	311.BF01		
Additives Silo 2	311.BF02		
Additives Silo 3	311.BF03		
Additives Silo 4	311.BF04		

~~Permit 0250020-010-AC~~

DRAFT

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Section III, Emissions Units Specific Conditions C.0 through C.26 in Permit 0250020-010-AC dated May 1, 2001 are adopted in their entirety. Certain conditions of that permit are modified as shown below. Additions are highlighted, and deletions are shown by ~~strikethroughs~~.

C. COMMON CONDITIONS

~~These emissions units shall comply with the 40 CFR 63, Subpart L.LL - National Emissions Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry for Major Sources of HAPs, and 40 CFR 63, Subpart A - General Provisions for Subpart L.LL - Portland Cement Plants~~

C.0 Emissions Unit Specific Testing, Monitoring, Notification, Recordkeeping, and Reporting Requirements

C.1. Test Methods and Procedures: The permittee shall conduct testing/monitoring on all emissions units as indicated below:

System	Unit ID	Pollutant	EPA Test Method	Frequency
EU 1260 Coal Handling				
Coal Mill Main—exhausts to main stack if not operated simultaneously with Kain/ Cooler/Raw Mill	461.BF0001	PM Opacity	5 9	Initial & Annual ⁽⁹⁾ Initial & Annual 5-years
Dump Hopper (Transfer)	2461.BF13001	PM Opacity	5 9	Initial ⁽⁹⁾ & Annual ⁽⁹⁾ Initial & Annual
Conveyors (2) (Transfer) & Coal and Petroleum Coke Feed Bins	2461.BF23002			
Coke/Petroleum Coke (Transfer)	461.BF75002			
Surge Bin (Feeder)	461.BF65003			
Coal Transfer Surge Bin (Feeder) Coal Mill Feed	461.BF650 461.BF350			
EU 00174 Clinker Handling & Storage				
Clinker Silos 21, 24 & 26-28	441.BF54001	PM Opacity	5 9	Initial ⁽⁹⁾ & Annual ⁽⁹⁾ Initial & Annual 5-years
Clinker Transfer Conveyors from Cooler Burner Building	441.BF54001			
Clinker Silos	481.BF14001			
Clinker Transfer Conveyors	481.BF14002			
Clinker Off-Spec Bins	481.BF13003			
Clinker transfer	481.BF640			
Clinker transfer	481.BF730			
Clinker transfer	481.BF930			

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

EUs 001, 012, and 013 Finish Mills				
Finish Mill No. 3	F-330	PM	5	Initial & Annual
	F-330	Opacity	9	Initial & Annual 5-years
Finish Mill No. 4	F-330	PM	5	Initial & Annual
	F-330	Opacity	9	Initial & Annual 5-years
	F-332	PM	5	Initial & Annual
	F-332	Opacity	9	Initial & Annual 5-years
Finish Mill No. 4 <i>Belt conveyor/ Separator</i>	533.BF340	PM	5	Initial & Annual
	F-343	Opacity	9	Initial & Annual 5-years
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-605	PM	5	Initial & Annual
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-603	Opacity	9	Initial & Annual 5-years
Finish Mill No. 4 <i>Clinker/Gypsum Conveyor</i>	F-604			
Finish Mill No. 4 <i>Ball Mill/Mill Sweep</i>	F-430	PM	5	Initial & Annual
Finish Mill No. 6 <i>Main</i>	531.BF01	Opacity	9	Initial & Annual 5-years
Finish Mill No. 6 <i>Sweep</i>	531.BF02			
EUs 0014, 015, and 016 Cement Storage, Packhouse & Loadout				
Cement Silos 1-6	F-511			
Cement Silos 7-9	F-512			
Cement Silo 10	F-513			
Cement Silo 11	F-514			
Cement Silo 12	F-515			
Bulk Loadout Unit 1 (Rail/Truck)	B-210			
Bulk Loadout Unit 2 (Truck)	B-210	PM	5	Initial & Annual
Bulk Loadout Unit 3 Line 1	B-372	Opacity	9	Initial & Annual 5-years
Bulk Loadout Unit 3 Line 2	B-374			
Bulk Loadout Unit 3 Line 3	B-382			
Packhouse	Pending			

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

EU 02805 Raw Mill and Pyroprocessing System					
Kiln/Cooler/Raw Mill and Coal Mill when operated simultaneously Main/Common Stack	331.BF20004	PM	5	Initial & Annual	
		PM10	5	Initial & Annual	
		Opacity	9	Initial & 5 years	
		SO2	6	Initial & 5 years	
		NOx	7 or 7E	Initial & 5 years	
		CO	10	Initial & 5 years	
		VOC	25 or 25A	Initial & 5 years	
		SAM	5 & 8	Initial & 5 years	
		Dioxins/Furans	23	Initial & 30 months	
		Lead/Mercury	29 or 101A	Initial & Annual ^(a)	
Kiln Dust Bin	331.BF74002				
Kiln Dust					
Blend Silo	341.BF35001				
Raw Meal Preheat/Calcine Tower	351.BF41001	PM Opacity	5 9	Initial ^(b) & Annual ^(b) Initial & Annual 5-years	
Raw Meal Preheat/Calcine Tower	351.BF44002				
Raw Meal Preheat/Calcine Tower	351.BF47003				
Kiln Dust track loadout	331.BF645				
EU 02906 Raw Material Handling					
Lime/Gyp Silos	232.BF01				
Additives Silo 1	311.BF65004	PM Opacity		Initial ^(b) & Annual ^(b)	
Additives Silo 2	311.BF75002			Initial & Annual 5-years	
Additives Silo 3	311.BF17003				
Additives Silo 4	311.BF95004				

Notes:

- (a) In the event that initial testing for mercury and lead result in potential annual emissions below 130 and 694 pounds, respectively, the DERM may waive the annual testing and require testing once every 5 years. Should subsequent test results indicate levels greater than those mentioned above, the facility shall revert to an annual testing schedule.
- (b) Initial and subsequent compliance testing requirements for PM emissions, except those listed below, are waived and an alternative standard of 5% opacity is imposed. If the DERM has reason to believe that the particulate weight emissions standard is not being met, it shall require that compliance be demonstrated using EPA Method 5. The following emissions units require initial testing for PM emissions: 331.BF20004, F-330, 331.BF310, F-430, 531.BF01, 531.BF02

Permit No. 0250020-010-AC Rule 62-297.310(7), F.A.C.

C.2 through C.9. No Changes in these conditions.

C.10. **Fuel Analysis for On-specification Used Oil:** Fuel analysis shall be in accordance with 40 CFR 266.43(b)(1) & (6). A sample shall be taken from the outlet of the blend tank on the first working day (i.e., Monday-Friday; exceptions: holidays) of each month, if any used oil was placed in the blend tank the previous month; or, the sample can be taken directly from the used oil mobile collection tank after final collection and prior to the time of initial transfer; but, that sampling frequency shall be no less than quarterly and the sampling methodology shall have been established with the DERM, Miami-Miami-Dade County prior to sampling. Upon taking a sample, the sample shall be analyzed for the following constituent/property and associated unit and using the following test methods (or their latest version):

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Constituent/Property	Unit	Test Method
Arsenic	ppm	EPA SW-846 (3040-7130)
Cadmium	ppm	EPA SW-846 (3040-7130)
Chromium	ppm	EPA SW-846 (3040-7130)
Lead	ppm	EPA SW-846 (3040-7130)
Total Halogens	ppm	ASTM E442
PCB	ppm	ASTM D4059
Sulfur	% by weight	ASTM D2622-92, ASTM D4294-90, or both ASTM D4057-88 & ASTM D129-91
Flash Point	°F	ASTM D93
Heat of Combustion	Btu/gal	ASTM D240-76
Density	Lbs/gal	ASTM D1298-80

Note: Other test methods may be used only after receiving written approval from the DERM.
 [40 CFR 279.11, which is adopted by reference in Rule 62-710.210(2), F.A.C.]

C.11 through C.26. No Changes in these conditions.

DRAFT

EMISSION UNIT 7

CONCRETE BLOCK PLANT

EMISSIONS UNIT INFORMATION

Section [7]
Concrete Block Plant

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 [7]
Concrete Block Plant

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:
Concrete Block Plant (5,500 blocks/hr)

3. Emissions Unit Identification Number: **024**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--------------------------------	--------------------------	--	--

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

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:
Concrete block plant with 3 aggregate storage silos and 2 cement silos producing 5,500 blocks per hour (blocks/hr).

EMISSIONS UNIT INFORMATION

**Section [7]
Concrete Block Plant**

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Baghouses (6)

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

EMISSIONS UNIT INFORMATION

Section [7]
Concrete Block Plant

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:		
2. Maximum Production Rate:	5,500 blocks/hr	
3. Maximum Heat Input Rate:	million Btu/hr	
4. Maximum Incineration Rate:	pounds/hr tons/day	
5. Requested Maximum Operating Schedule:	20 hours/day 52 weeks/year	6 days/week 6,240 hours/year
6. Operating Capacity/Schedule Comment:	Production rate equivalent to approximately 96.25 tons/hr concrete block.	

EMISSIONS UNIT INFORMATIONSection [7]
Concrete Block Plant**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: EU 024		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: 6 baghouses. See Attachment TM-EU7-C15.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 50 feet	7. Exit Diameter: <1 feet	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 1,600 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 for the cement silo baghouses. See Attachment TM-EU7-C15 for stack parameters for other baghouses.			

EMISSIONS UNIT INFORMATION

Section [7]
Concrete Block Plant

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Mineral Products; Concrete Batching; General: Non-fugitive.		
2. Source Classification Code (SCC): 3-05-011-01		3. SCC Units: Cubic Yards of Concrete
4. Maximum Hourly Rate: ±51	5. Maximum Annual Rate: 320,320	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Emission unit operates at 5,500 blocks/hr. Cubic yard rates are estimated by process knowledge.		

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/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: 99%	
3. Potential Emissions: 0.43 lb/hour 0.19 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Baghouse efficiency of 99% Reference: AP-40, AP-42, and BEP		7. Emissions Method Code: 3	
8. Calculation of Emissions: See Attachment TM-EU7-F1.8.			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [7]
Concrete Block Plant

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter Total - PM

**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 ____ 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):	

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 [7]
Concrete Block Plant

POLLUTANT DETAIL INFORMATION

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

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: 0.37 lb/hour 0.16 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference: AP-42	7. Emissions Method Code: 3
8. Calculation of Emissions: PM₁₀ emissions assumed to be 85% of PM emissions.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATIONSection [7]
Concrete Block Plant**POLLUTANT DETAIL INFORMATION**Page [2] of [2]
Particulate Matter - PM₁₀**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 ____ 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):	

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 [7]
Concrete Block Plant**

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 1

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: EPA Method 9	
5. Visible Emissions Comment: Rule 62-296.414, F.A.C.	

Visible Emissions Limitation: Visible Emissions Limitation ____ of ____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [7]
Concrete Block Plant

H. CONTINUOUS MONITOR INFORMATION

Complete 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 [7]
Concrete Block Plant**

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) <input checked="" type="checkbox"/> Attached, Document ID: TM-EU7-11 <input type="checkbox"/> Previously Submitted, Date _____</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) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</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) <input checked="" type="checkbox"/> Attached, Document ID: TM-EU7-C15 <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input 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) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable</p>
<p>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.</p>
<p>7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [7]

Concrete Block Plant

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: TM-EU7-IV1 <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring <input checked="" type="checkbox"/> Attached, Document ID: CAM Plan <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
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 checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

**Section [7]
Concrete Block Plant**

Additional Requirements Comment

ATTACHMENT TM-EU7-C15

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

ATTACHMENT TM-EU7-C15

DETAILED DESCRIPTION OF CONTROL EQUIPMENT
PENNSUCO CONCRETE BLOCK PLANT

Source ID	Manufacturer	Model No.	Number of Bags	Flow Rate (acfm)	Cloth Area (ft ²)	Air to Cloth Ratio
Cement Silo No. 1	C&W Mfg.	CP-310 (2 units)	4	1,600	304	5.3
Cement Silo No. 2	C&W Mfg.	CP-310 (2 units)	4	1,600	304	5.3
Weigh Hopper No. 1	C&W Mfg.	CP-100	1	400	110	4.0
Weigh Hopper No. 2	C&W Mfg.	CP-100	1	400	110	4.0

ATTACHMENT TM-EU7-F1.8

EMISSION CALCULATIONS

PRODUCTION RATE: 5,500 blocks/hour (96.25 ton/hr, $\pm 51 \text{ yd}^3/\text{hr}$)
 [maximum] 20 hrs/day, 6 days/wk, 52 wks/yr = **6,240 hrs/yr**

MATERIAL USE: cement = 8.53 tons/hr
 [maximum] sand & aggregate = 81.68 tons/hr

UNLOADINGS: cement $\frac{53,227 \text{ tons/yr}}{25 \text{ tons/unloading}} = 2,129 \text{ unloadings/yr}$
 [maximum] assumes ± 45 minutes/unloading with an unloading rate of ± 30 tons/hour

UNCONTROLLED EMISSIONS: Factors taken from EPA publication "Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Concrete Batching, October 2001

▶ cement silos: $(2@ 30.0 \text{ tons/hr}) \times (0.72 \text{ lb/ton mtl}) = 43.20 \text{ lb/hr}$
 $(53,227 \text{ tons/yr}) \times (0.72 \text{ lb/ton mtl}) = 19.16 \text{ ton/yr}$

▶ weigh hopper/mixer: $(2@ 8.53 \text{ tons/hr}) \times (0.0051 \text{ lb/ton mtl}) = 0.09 \text{ lb/hr}$
 $(53,227 \text{ tons/yr}) \times (0.0051 \text{ lb/ton mtl}) = 0.14 \text{ ton/yr}$

	= 43.29 lb/hr
■ TOTAL UNCONTROLLED EMISSIONS [MAXIMUM]	= 19.30 ton/yr

CONTROLLED EMISSIONS: based on baghouse efficiency of 99% (AP-40, AP-42 & BEP)


▶ cement silos: $(43.20 \text{ lb/hr}) \times (1 - 0.99) = 0.43 \text{ lb/hr}$
 $(19.16 \text{ ton/yr}) \times (1 - 0.99) = 0.19 \text{ ton/yr}$

▶ weigh hopper/mixer: $(0.09 \text{ lb/hr}) \times (1 - 0.99) = <0.01 \text{ lb/hr}$
 $(0.14 \text{ ton/yr}) \times (1 - 0.99) = <0.01 \text{ ton/yr}$

	= 0.43 lb/hr
■ TOTAL CONTROLLED EMISSIONS [MAXIMUM]	= 0.19 ton/yr

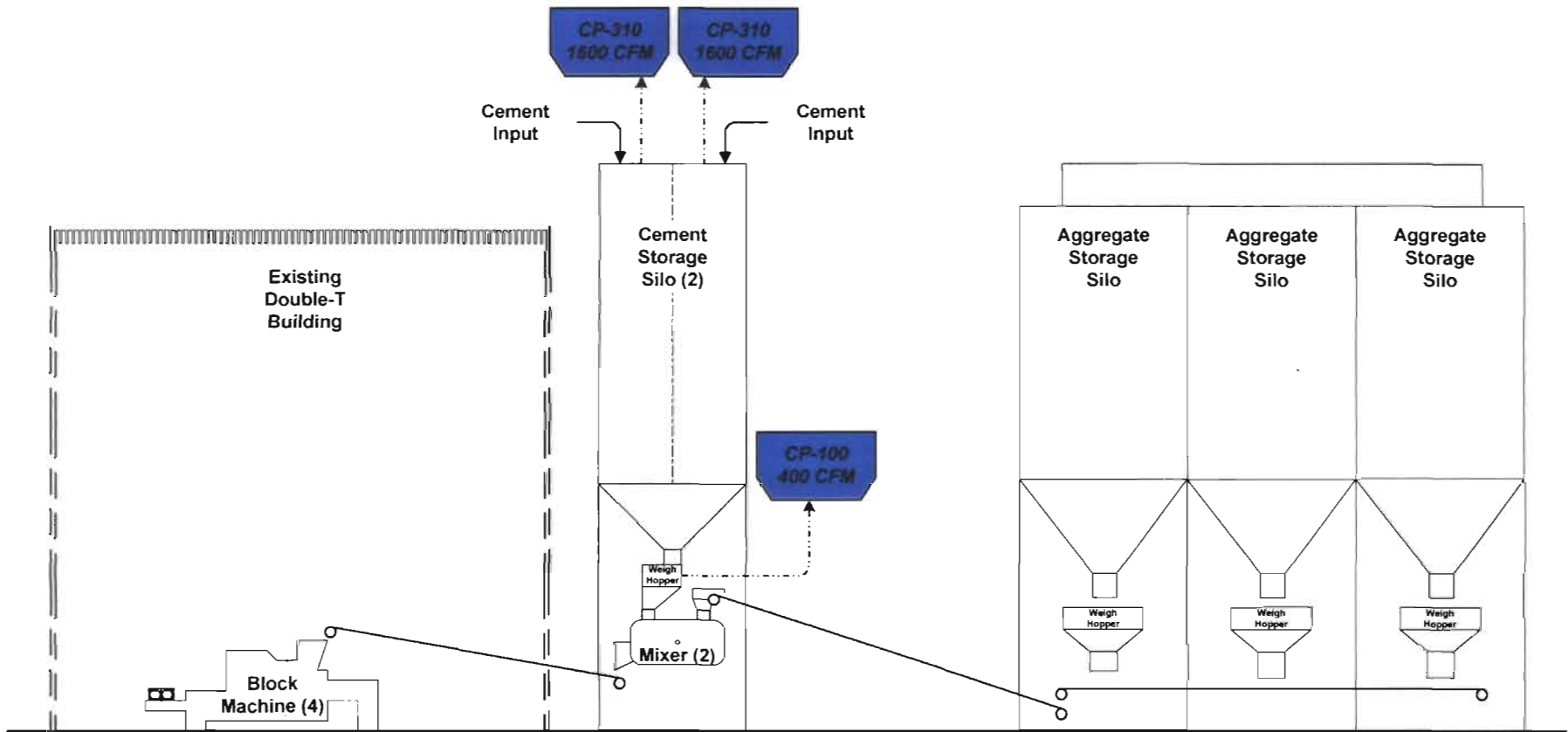
UNCONFINED EMISSIONS:

- ▶ aggregates unconfined particulate emissions from transfer to storage bins will be negligible; materials are kept wet from sprinklers, covered conveyors, or inherent moisture of materials
- ▶ vehicle traffic unconfined particulate emissions from vehicular traffic on unpaved roads or yard areas controlled as necessary by application of water or dust suppressants or other reasonable precautions


DESCRIPTION ATTACHMENT TM-EU7-F1.8 EMISSION CALCULATIONS	TITLE: PENNSUCO BLK	
	FILENAME: TM-EU7-F1.8.DOCdoc	
	LAST REVISION DATE: 7/25/2002	

ATTACHMENT TM-EU7-11

PROCESS FLOW DIAGRAM



Pennsuco Block Plant [EU-024]

DESCRIPTION Attachment TM-EU7-I1 Process Flow Diagram	TITLE: PENNSUCO CEMENT	
	FILENAME: NEW PLOT PLANS VSD/TM-EU7-I1	
	LAST REVISION DATE: 4/27/2005	

ATTACHMENT TM-EU7-IV1

LIST OF APPLICABLE REGULATIONS

ATTACHMENT TM-EU7-IV1

**LIST OF APPLICABLE REGULATIONS
FOR THE CONCRETE BLOCK PLANT**

62-296.320(4)(b) – General VE Standard

62-296.414, F.A.C. – Batch Plant Visible Emissions Standards



ENVIRONMENTAL RESOURCES MANAGEMENT
AIR QUALITY MANAGEMENT DIVISION
33 S.W. 2nd AVENUE
SUITE 900
MIAMI, FLORIDA 33130-1540
TELEPHONE: (305) 372-6925
FAX: (305) 372-6954

September 20, 2002

NOTICE OF AIR POLLUTION PERMIT

CERTIFIED MAIL NO.: 7000 0600 0025 3506 2242
RETURN RECEIPT REQUESTED

ISSUED TO:

Mr. Hardy Johnson
President, Florida Division
Tarmac America, LLC
455 Fairway Drive
Deerfield Beach, FL 33441

Permit Number: 0250020-014-AC
Issue Date: September 20, 2002
Expiration Date: September 19, 2003

Project: An Air Construction Permit to construct a concrete block plant at Tarmac Pennsuco.
Facility Description: Facility is a Portland Cement Manufacturing Facility.
(SIC/NAICS # - 3241/32731, 3271/327331, 3273/32732, 1422/212312, 1442/212321)
Location: 11000 NW 121 Way
Lat./Long.: 25° 52' 30" N / 80° 22' 30" W.

Dear Mr. Johnson:

This is Permit Number 0250020-014-AC to construct an air pollution source issued by the Miami-Dade County, Department of Environmental Resources Management (DERM) pursuant to Chapter 24, Code of Miami-Dade County and Chapter 403.087, Florida Statutes (F.S.). This is a construction permit authorizing the construction of the emissions units described in the permit.

The Florida Department of Environmental Protection (FDEP) has permitting jurisdiction under Section 403.087, Florida Statutes (F.S.). However, in accordance with Section 403.182, F.S., the FDEP recognizes the DERM as the approved local air pollution control program of Miami-Dade County. Through a Specific Operating Agreement, the FDEP delegated to the DERM the authority to issue or deny permits for this type of air pollution source located in Miami-Dade County.

STATEMENT OF BASIS:

This permit is issued under the provisions of Chapter 24, Code of Miami-Dade County, Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Rules 62-4, and 62-204 through 62-297, and in conformance with all existing regulations of the FDEP and the DERM rules. The above named permittee is hereby authorized to perform the work or construct the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the DERM and made a part hereof and specifically described in this permit.

PERMIT CONTENTS:

- Part I -- Summary Information
- Part II -- Facility-Wide Specific Conditions
- Part III -- Emission Unit Specific Conditions
- Appendix A -- General Conditions

PART-I -- SUMMARY INFORMATION

This permit addresses the following air pollution emission unit(s):

Emissions Unit Number	Emissions Unit Description
026	Concrete Block Plant

SIGNIFICANT DATES:

- Public Notice of Intent Published September 4, 2002
- Additional Information Received July 25, 2002
- Letter from FDEP dated July 19, 2002 regarding PSD Applicability Determination
- Application Received on July 1, 2002

PERMIT HISTORY:

The facility operates under Title V Air Operation Permit No. 0250020-011-AV.
There have been no previous air permits issued for this emissions unit.

PART II -- FACILITY-WIDE SPECIFIC CONDITIONS

- 1.0 **Administrative Requirements**
- 1.1 **Regulating Agencies:** All applications, tests, reports, notifications, or other submittals required by this permit shall be submitted to the Miami-Dade County DERM, Air Facilities Section located at 33 SW 2nd Avenue, Suite 900, Miami, Florida 33130-1540.
- 1.2 **Citation Format:** In this permit, references to F.A.C. Rule 62-xxx refer to rules promulgated under Title 62 of the Florida Administrative Code; references (if any) to 40 CFR 60.xx (or 61.xx or 63.xx) refer to regulations codified under Part 60 (or 61 or 63) of Title 40 of the Code of Federal Regulations.
- 1.3 **Specific and General Conditions:** The permittee shall be subject to the specific conditions of this permit and the permittee shall be aware of, and operate under, the attached General Conditions, attached as Appendix A of this permit. General Conditions are binding and enforceable pursuant to Chapter 403, F.S. [Rule 62-4.160 F.A.C.]
- 1.4 **Applicable Regulations:** This facility is subject to regulation of Florida Administrative Code (F.A.C.) Rules 62-4, and 62-204 through 62-297. Issuance of this permit does not relieve the facility permittee from compliance with any other applicable federal, state, or local permitting requirements or other regulations.
- 1.5 **Waste Disposal:** The permittee shall treat, store, and dispose of all liquid, solid and hazardous wastes in accordance with all applicable federal, state and local regulations.

1.6 Other Permits: This air pollution permit does not preclude the permittee from obtaining any other types of required permits, licenses or certifications from the DERM or other departments or agencies.

1.7 Operation Permit Required: This permit authorizes construction and/or installation of the permitted emission unit(s) and initial operation to determine compliance with the FDEP and the DERM rules. An operation permit is required for regular operation of the permitted emission units. The permittee shall apply for and receive an operation permit prior to expiration of this permit. An application for an operation permit shall be submitted to the Miami-Dade County DERM, Air Facilities Section. To apply for an operation permit, the applicant shall submit the appropriate application fee and, in triplicate, the appropriate application form, a certification that construction was completed with a notation of any deviations from the conditions on the construction permit, compliance test results, and such additional information as the DERM may by law require.
[Rule 62-4.030, 62-4.050, 62-4.220, and 62-210.300 F.A.C.]

1.8 Extension of This Permit: The expiration date of this construction permit may be extended upon request of the permittee and submission of the appropriate fee to the Miami-Dade County DERM, Air Facilities Section at least 60 days prior to the expiration date of this permit.
[Rule 62-4.030, 62-4.050, and 62-4.220 F.A.C.]

2.0 General Pollutant Emission Limiting Standards

2.1 Objectionable Odor Prohibited: No person shall cause, suffer, allow, or permit the discharge of air pollutants, which cause or contribute to an objectionable odor.
[Rule 62-296.320(2) F.A.C.]

2.2 General Visible Emissions Standard: Unless otherwise specified by permit or rule, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than 20 percent opacity at any time.
[Rule 62-296.320(4)(b) F.A.C.]

2.3 Volatile Organic Compounds/Organic Solvents Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the DERM.

Such controls include the following:

- Tightly cover or close all VOC containers when they are not in use.
- Tightly cover all open tanks, which contain VOCs when they are not in use.
- Maintain all pipes, valves, fittings, etc., which handle VOCs in good operating condition.
- Confine rags used with VOCs to tightly closed, fireproof containers when not in use.
- Immediately confine and clean up VOC spills and make sure wastes are placed in closed containers for reuse, recycling or proper disposal.

[Rule 62-296.320(1) F.A.C.]

2.4 Unconfined Emissions of Particulate Matter: No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.

Reasonable precautions include the following:

- Paving and maintenance of roads, parking areas and yards.
- Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.

- Application of asphalt, water, chemicals, or other dust suppressants to unpaved roads, yards, open stock piles, and similar activities.
 - Removal of particulate matter from roads and other paved areas under the control of the permittee of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
 - Landscaping or planting of vegetation.
 - Use of hoods, fans, filters, and similar equipment to contain, capture, and/or vent particulate matter.
 - Confining abrasive blasting where possible.
 - Enclosure or covering of conveyor systems.
 - Substitution of powdery materials with granular or pelletized materials, where possible.
- [Rule 62-296.320(4)(c) F.A.C.]

3.0 Operation Requirements

- 3.1 Circumvention: No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.
[Rule 62-210.650 F.A.C.]

4.0 Compliance Testing Requirements

- 4.1 Test Notification: Unless otherwise specified in this permit, the DERM Air Facilities Section shall be notified in writing of expected compliance test dates (when required) at least fifteen (15) days prior to compliance testing. The notification shall include the following information: the date, time, and location of each test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner.
[Rule 62-297.310(7)(a) 9 F.A.C.]

- 4.2 Testing at Capacity: Compliance testing (when required) shall be conducted with the emission units operating at the permitted capacity (90 to 100% of the maximum permitted operation rate of the emission units). If an emission unit is not tested at permitted capacity, the emission unit shall not be operated above 110% of the test load until a new test showing compliance is conducted. Operation of the emissions unit above 110% of the test load is allowed for no more than 15 days for the purpose of conducting additional compliance testing to regain the authority to operate at the permitted capacity.
[Rule 62-297.310(2) F.A.C.]

- 4.3 Special Compliance Tests: When the DERM, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard in Rules 62-204 through 62-297 or in a permit issued pursuant to those rules is being violated, it shall require the permittee of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the DERM.
[Rule 62-297.310(7)(b) F.A.C.]

5.0 Reporting and Record Keeping Requirements

- 5.1 Report Excess Emissions: In case of excess emissions resulting from malfunctions, each permittee shall notify the DERM in accordance with Rule 62-4.130, F.A.C. (condition 5.2 below). A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the DERM.
[Rule 62-210.700(6) F.A.C.]

- 5.2 Report Plant Operation Problems: If the permittee is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee shall immediately notify the DERM. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such

notification does not release the permittee from any liability for failure to comply with the FDEP and the DERM rules.

[Rule 62-4.130 F.A.C.]

5.3 Retain Records: All records required by this permit shall be kept by the permittee and made available for the DERM inspection for a minimum of three (3) years from the date of such records.

[Rule 62-4.160(14)(b) F.A.C.]

5.4 Compliance Test Reports: Compliance test reports (when required) shall be submitted to the DERM Air Facilities Section, as soon as practical, but no later than 45 days after the last sampling run of each test is completed.

[Rule 62-297.310(8)(a) &(b) F.A.C.]

Test reports shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the DERM to determine if the test was properly conducted and the test results properly computed. Test reports, other than for an EPA Method 9 test, shall include the following information and other information as necessary to make a complete report required pursuant to F.A.C. Rule 297.310(8)(c):

- The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
- The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
- The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
- All measured and calculated data required to be determined by each applicable test procedure for each run.
- The detailed calculations for one run that relate the collected data to the calculated emission rate.
- The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.

5.5 Annual Report Required: On or before March 1 of each calendar year, a completed DEP Form 62-210.900(5), Annual Operating Report (AOR) Form for Air Pollutant Emitting Facility, shall be submitted to the Miami-Dade County DERM, Air Facilities Section. Included with this report shall be any additional reports, if any, required by this permit in Part III -- Emission Unit Specific Conditions.

[Rule 62-210.370(3) F.A.C.]

PART III -- EMISSION UNIT SPECIFIC CONDITIONS

This part of this permit addresses the following emission units:

Emissions Unit Number	Emissions Unit Description
026	Concrete Block Plant with a design capacity of 5,500 blocks per hour (approximately 96 tons per hour of concrete block). The block plant consists of three (3) Aggregate Storage Silos with Weigh Hoppers, and two (2) Cement Storage Silos. Each Cement Storage Silo has 2 Baghouses, a Mixer, and a Weigh Hopper with Baghouse. A total of 6 baghouses are associated with the Concrete Block Plant. See table below for baghouse design specifications.

Concrete Block Plant Baghouse Design Specifications

Source ID	Manufacturer	Model No.	Number of Cartridges	Flow Rate (acfm)	Cloth Area (ft ²)	Air to Cloth Ratio
Cement Silo #1	C & W Mfg.	CP-310 [2 units]	4	1600	304	5.3
Cement Silo #2	C & W Mfg.	CP-310 [2 units]	4	1600	304	5.3
Weigh Hopper #1	C & W Mfg.	CP-100 [1 unit]	1	400	110	4.0
Weigh Hopper #2	C & W Mfg.	CP-100 [1 unit]	1	400	110	4.0

1.0 Essential Potential to Emit (PTE) Parameters

1.1 Hours of Operation: The Concrete Block Plant may not operate in excess of 20 hours/day, 6 days/week for 52 weeks/year resulting in a total of 6,240 hrs/year.
 [Rule 62-4.070(3) F.A.C.; Requested by Permittee in Application received July 1, 2002]

1.2 Visible Emissions: Emissions from silos, weigh hoppers (batchers), and other enclosed storage and conveying equipment shall be controlled to the extent necessary to limit visible emissions to 5 percent opacity.
 [Rule 62-296.414(1), F.A.C.]

2.0 Testing and Recordkeeping Requirements

2.1 Unconfined Emissions: The permittee shall take reasonable precautions to control unconfined emissions from hoppers, storage and conveying equipment, conveyor drop points, truck loading and unloading, roads, parking areas, stock piles, and yards as required by Rule 62-296.320(4)(c), F.A.C. and Facility-Wide Specific Condition No. 2.4 of this permit. The following shall constitute additional reasonable precautions for the concrete block plant:

- Reduction of stock pile height or installation of wind breaks to mitigate wind entrainment of particulate matter from stock piles.
 - Use of spray bar, chute, or partial enclosure to mitigate emissions at the drop point to the truck.
- [Rule 62-296.414(2), F.A.C.]

2.2 Test Methods & Procedures: All emissions tests performed shall comply with the following requirements.

- (a) The test method for visible emissions shall be EPA Method 9.
- (b) Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.
- (c) Visible emissions tests of silo dust collector exhaust points shall be conducted while loading the silo at a rate that is representative of the normal silo loading rate. The minimum loading rate shall be 25 tons per hour unless such rate is unachievable in practice. If emissions from the weigh hopper

(batcher) operation are also controlled by the silo dust collector, then the batching operation shall be in operation during the visible emissions test. The batching rate during the emissions test shall be representative of the normal batching rate and duration. Each test report shall state the actual silo loading rate during emissions testing and, if applicable, whether or not batching occurred during emissions testing.

- (d) If emissions from the weigh hopper (batcher) operation are controlled by a dust collector which is separate from the silo dust collector, visible emissions tests of the weigh hopper (batcher) dust collector exhaust point shall be conducted while batching at a rate that is representative of the normal batching rate and duration. Each test report shall state the actual batching rate during emissions testing.
- (e) Each dust collector exhaust point shall be tested for a minimum of 30 minutes or, if the operation is normally completed within less than 30 minutes and does not recur within that time, the test shall last for the length of the loading operation.

[Rule 62-296.414(3), and 62-297.310(4)(a), F.A.C.]

2.3 Annual Testing: Each dust collector exhaust point shall be tested annually for compliance with the visible emission limiting standard of Rule 62-296.414(1), F.A.C.

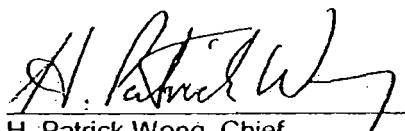
[Rule 62-296.414(4), F.A.C.]

2.5 Record of Operating Hours: The permittee shall keep a daily log of the number of hours of operation.

[Rule 62-4.070(3) F.A.C.]

Executed in Miami-Dade County, Florida.

DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT



H. Patrick Wong, Chief
Air Quality Management Division

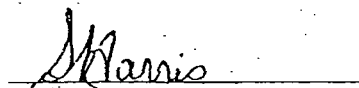
9/20/02

Date

HPW/cj

Copy: Scott Sheplak, Florida Department of Environmental Protection (FDEP), Tallahassee
Tom Tittle, FDEP Air Program, Southeast District Office
Scott Quaas, Tarmac

FILING AND ACKNOWLEDGMENT: FILED, on this date, pursuant to § 120.52(7), F.S., with the designated DERM Clerk, receipt of which is hereby acknowledged.



Clerk

9/20/02

Date

APPENDIX A
GENERAL PERMIT CONDITIONS

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the DERM will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings or exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the DERM.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other DERM permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and DERM rules, unless specifically authorized by an order from the DERM.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by DERM rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by DERM rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized DERM personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
 - (a) Have access to and copy and records that must be kept under the conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
 - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or DERM rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the DERM with the following information:
 - (a) A description of and cause of non-compliance; and
 - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

APPENDIX A
GENERAL PERMIT CONDITIONS

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the DERM for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the DERM may be used by the DERM as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or DERM rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in DERM rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or DERM rules.
11. This permit is transferable only upon DERM approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the DERM.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. The permittee shall comply with the following:
 - (a) Upon request, the permittee shall furnish all records and plans required under DERM rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the DERM.
 - (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by DERM rule.
 - (c) Records of monitoring information shall include:
 1. The date, exact place, and time of sampling or measurements;
 2. The person responsible for performing the sampling or measurements;
 3. The dates analyses were performed;
 4. The person responsible for performing the analyses;
 5. The analytical techniques or methods used; and
 6. The results of such analyses.
14. When requested by the DERM, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the DERM, such facts or information shall be corrected promptly.

EMISSION UNIT 8

READY MIX PLANT

EMISSIONS UNIT INFORMATION

Section [8]
Ready Mix Plant

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 [8]
Ready Mix Plant**

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:
Ready Mix Plant

3. Emissions Unit Identification Number: **025**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--------------------------------	--------------------------	--	--

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

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:
Ready-mix concrete plant produces 130 cubic yards per hour (yards/hr) [244 tons per hour (TPH)] of concrete with emissions from cement/fly ash storage silos & weigh hopper controlled by baghouses.

EMISSIONS UNIT INFORMATION

**Section [8]
Ready Mix Plant**

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Baghouses (7)

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

EMISSIONS UNIT INFORMATION

Section [8]
Ready Mix Plant

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:	130 cubic yards/hr	
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	8 days/week
	52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment:		
	<p>Maximum production capacity rated at 130 cubic yards/hr (\pm 244 TPH) of concrete.</p>	

EMISSIONS UNIT INFORMATIONSection [8]
Ready Mix Plant**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: EU 025		2. Emission Point Type Code: 3			
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: 4 baghouses. See Attachment TM-EU8-C15.					
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:					
5. Discharge Type Code: H		6. Stack Height: 50 feet		7. Exit Diameter: 1.2 feet	
8. Exit Temperature: 77 °F		9. Actual Volumetric Flow Rate: 3,000 acfm		10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm			12. Nonstack Emission Point Height: feet		
13. Emission Point UTM Coordinates... Zone: 17 East (km): 563.1 North (km): 2,861.9			14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)		
15. Emission Point Comment: Stack parameters are for the Cement/Fly Ash Silo No. 1 baghouse. See Attachment TM-EU8-C15 for stack parameters of other baghouses.					

EMISSIONS UNIT INFORMATION

Section [8]
Ready Mix Plant

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Mineral Products; Concrete Batching; General: Non-fugitive.		
2. Source Classification Code (SCC): 3-05-011-01		3. SCC Units: Cubic Yards of Concrete
4. Maximum Hourly Rate: 130	5. Maximum Annual Rate: 1,138,800	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

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:		

EMISSIONS UNIT INFORMATION

Section [8]
Ready Mix Plant

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	018		NS
PM ₁₀	018		NS

EMISSIONS UNIT INFORMATION

Section [8]
Ready Mix Plant

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter Total - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: 0.43 lb/hour 0.82 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: Baghouse efficiency of 99% Reference: AP-40, AP-42, and BEP	7. Emissions Method Code: 3
8. Calculation of Emissions:	
9. Pollutant Potential/Estimated Fugitive Emissions Comment: See Attachment TM-EU8-F1.8.	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [8]
Ready Mix Plant

Page [1] of [2]
Particulate Matter Total - PM

**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 ____ 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):	

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 [8]
Ready Mix Plant

POLLUTANT DETAIL INFORMATION

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

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:	
3. Potential Emissions: 0.37 lb/hour 0.70 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: Reference: AP-42		7. Emissions Method Code: 3	
8. Calculation of Emissions: PM₁₀ emissions assumed to be 85% of PM emissions.			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

EMISSIONS UNIT INFORMATIONSection [8]
Ready Mix Plant**POLLUTANT DETAIL INFORMATION**Page [2] of [2]
Particulate Matter - PM₁₀**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 ____ 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):	

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 [8]
Ready Mix Plant

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 1

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: EPA Method 9	
5. Visible Emissions Comment: Rule 62-296.414, F.A.C.	

Visible Emissions Limitation: Visible Emissions Limitation ____ of ____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [8]
Ready Mix Plant

H. CONTINUOUS MONITOR INFORMATION

Complete 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 [8]
Ready Mix Plant

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>TM-EU8-11</u> <input type="checkbox"/> Previously Submitted, Date _____
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>TM-EU8-C15</u> <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

**Section [8]
Ready Mix Plant**

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: TM-EU8-IV1 <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring <input checked="" type="checkbox"/> Attached, Document ID: CAM Plan <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
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 checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

**Section [8]
Ready Mix Plant**

Additional Requirements Comment

[Empty rectangular box for additional requirements comment]

ATTACHMENT TM-EU8-C15

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

Attachment TM-EU8-C15. Control Equipment Information for Ready-Mix Plant

Source ID	Manufacturer	Model No.	No. of Bags	Flow Rate (acfm)	Cloth Area (ft ²)	Cloth Ratio
Cement/Flyash Silo No. 1	C&W Manufacturing	LPR-6	6	1760	267	6.5:1
Cement/Flyash Silo No. 2	C&W Manufacturing	CP-305	8	1600	304	5:1
Cement/Flyash Silo No. 3	C&W Manufacturing	(2) LPR-6	6	1760	267	6.5:1
Cement/Flyash Silo No. 4	C&W Manufacturing	LPR-6	6	1760	267	6.5:1
Weigh/Loadout No.1	C&W Manufacturing	CP-900	12	5000	912	5.5:1
Weigh/Loadout No.2	Vince Hagen	VH-1083-JP	99	6500	1083	6:1

ATTACHMENT TM-EU8-F1.8

EMISSION CALCULATIONS

ATTACHMENT TM-EU8-F1.8

READY MIX PLANT

EMISSION CALCULATIONS

Production Rate: [maximum]	130 yd ³ /hour (±244 ton/hr) 24 hr/day, 7 days/wk, 52 wks/yr = 8,760 hr/yr
Material Use: [maximum]	cement/flyash = 28.60 tons/hr sand & aggregate = 196.30 tons/hr
Unloadings: [maximum]	cement/flyash $\frac{250,536 \text{ tons/yr}}{25 \text{ tons/unloading}} = 10,022 \text{ unloadings/yr}$

Uncontrolled Emissions: Factors taken from AP-42, Section 11.12 "Concrete Batching," October 2001.

- Cement/flyash silos: $(2 @ 30.0 \text{ tons/hr}) \times (0.72 \text{ lb/ton material}) = 43.2 \text{ lb/hr}$
 - Weigh hopper: $(28.60 \text{ tons/hr}) \times (0.0051 \text{ lb/ton material}) = 0.15 \text{ lb/hr}$
- Total Uncontrolled Emissions [Maximum] = 43.35 lb/hr

Controlled Emissions: Based on baghouse efficiency of 99% (AP-40, AP-42 & BEP)

- Cement/flyash silos: $(43.2 \text{ lb/hr}) \times (1 - 0.99) = 0.432 \text{ lb/hr}$
 $\frac{(0.432 \div 2 \text{ lb/hr}) \times (7,517^* \text{ hrs unloading/yr})}{(2,000 \text{ lb/ton})} = 0.81 \text{ ton/yr}$

*Assumes 45 minutes/unloading (10,022 unloadings/year x 45 minutes/unloading ÷ 60 minutes/hour = 7,517 hours unloading/year)

- Weigh hopper: $(0.15 \text{ lb/hr}) \times (1 - 0.99) = 0.002 \text{ lb/hr}$
 $\frac{(0.002 \div 2 \text{ lb/hr}) \times (8,760 \text{ hrs unloading/yr})}{(2,000 \text{ lb/ton})} = 0.01 \text{ ton/yr}$

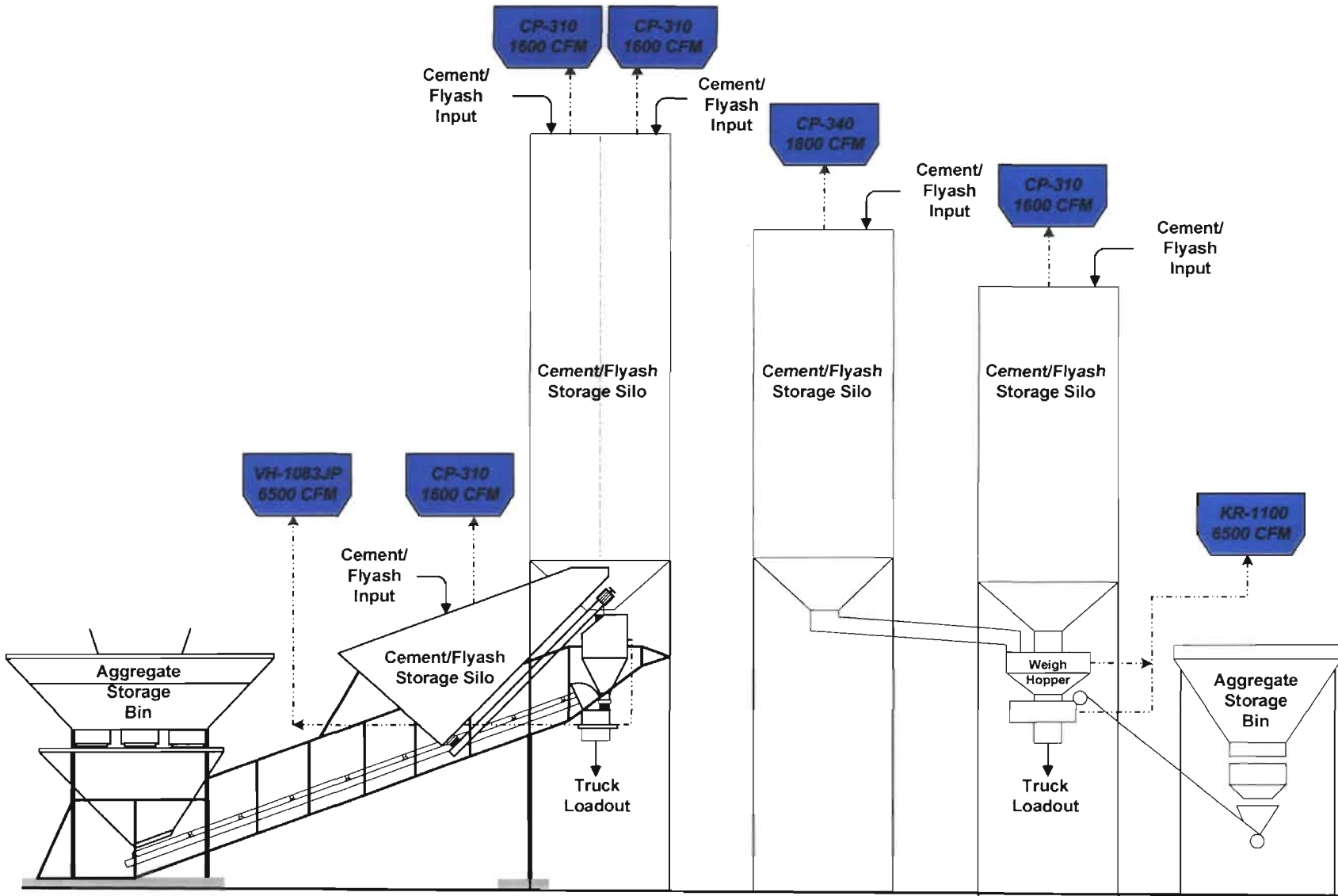
Total Controlled Emissions [Maximum] { = 0.43 lb/hr
= 0.82 ton/yr

Unconfined Emissions:

- Aggregates: Unconfined particulate emissions from transfer to storage bins and wind erosion of storage piles will be negligible; materials are kept wet from sprinklers for product quality control
- Truck loading: Unconfined particulate emissions from truck loading controlled by boot at loadout spout
- Vehicle Traffic: Unconfined particulate emissions from vehicular traffic on unpaved roads or yard areas controlled as necessary by application of water or other dust suppressants

ATTACHMENT TM-EU8-I1

PROCESS FLOW DIAGRAM



Ready-Mix Plant [EU-025]

DESCRIPTION

Attachment TM-EU8-I1
Process Flow Diagram

TITLE: PENNSUCO CEMENT

FILENAME: NEW PLOT PLANS.VSD/TM-EU8-I1

LAST REVISION DATE: 4/27/2005



ATTACHMENT TM-EU8-IV1

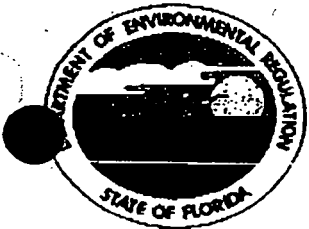
LIST OF APPLICABLE REGULATIONS

ATTACHMENT TM-EU8-IV1

**LIST OF APPLICABLE REGULATIONS
FOR THE READY MIX CONCRETE PLANT**

62-296.320(3) – Reasonable Precautions to Prevent Fugitive Emissions

62-296.414, F.A.C. – Batch Plant Visible Emissions Standards



Florida Department of Environmental Regulation

Southeast District • 1900 S. Congress Ave., Suite A • West Palm Beach, Florida 33406 • 407-964-9668

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Scott Benyon, Deputy Assistant Secretary

PERMITTEE:

Mr. Rand G. Eachus
Vice President
Standard Concrete Corporation
7855 N.W. 12th Street, Suite 105
Miami, Florida 33126

I.D. NUMBER: 50/DAD/13/0519

PERMIT/CERTIFICATION NUMBER: AC 13-158138

DATE OF ISSUE: MAY 18 1989

EXPIRATION DATE: February 28, 1990

COUNTY: Dade

LATITUDE/LONGITUDE: 25°52'32"N/80°22'13"W

UTM: Zone 17; 563.09Km. E; 2861.93Km. N

PROJECT: Standard Concrete Corporation
Concrete Batch Plant No. 4

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule 17-2, and in conformance with all existing regulations of the Florida Department of Environmental Regulation. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

CONSTRUCT: An air pollution source consisting of a 130 cu.yd./hr. (243.75 tons/hr.) ready-mix concrete batch plant. The facility has two cement storage silos with emissions controlled by a Standley DCS-16 ground mounted dust collector at a generalized height of 20 feet above ground level. The weigh hopper's emissions are controlled by a separate dust collector.

IN ACCORDANCE WITH: Application to Construct Air Pollution Sources received December 8, 1988 and Notice of Intent issued May 1, 1989 and published May 4, 1989 in The Miami Herald (none are attached).

LOCATED AT: The Southeast Corner of N.W. 121st Way and N. W. 107th Avenue, Medley, Dade County, Florida.

TO SERVE: A concrete ready-mix plant (SIC # 3271).

SUBJECT TO: General Conditions 1-17(d). and Specific Conditions 1-9.

Mr. Rand G. Eachus, Vice Pres.
Standard Concrete Corp.
Miami, Florida

PERMIT/CERTIFICATE NUMBER: AC 13-158138
DATE OF ISSUE: MAY 18 1989
EXPIRATION DATE: February 28, 1990

SPECIFIC CONDITIONS:

1. Application for a permit to operate shall be submitted to the Department at least sixty (60) days prior to the expiration of this permit, but in no case more than fourteen (14) days after commencement of operation. In no case shall a source be operated without an appropriate operating permit. The Certification of Completion of Construction, DER Form 17-1.202(3) may be submitted in lieu of the application for a permit to operate.

2. Emission limiting standard is as follows:

In accordance with Florida Administration Code Rule 17-2.610(2) - no person shall let, permit, suffer, or allow to be discharged into the atmosphere any pollutants from new, or existing sources, the density of which is equal to or greater than 20% opacity.

NOTE: Visible emissions greater than 5% opacity may indicate circumvention or a malfunction and should be investigated promptly.

3. The compliance test report shall include results of tests by the following method:

<u>Source/Emission Point</u>	<u>Pollutant</u>	<u>Test Method</u>
Silo Baghouse	Visible Emissions	EPA Method 9

The compliance test report shall be submitted to the Department in accordance with Florida Administrative Code (F.A.C.) Rule 17-2.700(7).

4. Testing of emissions should be conducted using the fuel and/or process input which are expected to result in the highest emissions and within ten percent (10%) of the rated capacity of the source, otherwise the Department may require the test to be repeated or require modification of the permit to reflect tested rates and/or fuels.

5. The Department shall be notified of expected test dates at least fifteen (15) days prior to compliance testing.

6. On or before March 1 of each calendar year, a completed DER Form 17-1.202(6), Annual Operations Report Form for Air Emissions Sources shall be submitted to the Department.

7. Copies of all reports, tests, notifications or other submittals required by this permit shall be submitted to both the Department of Environmental Regulation, Southeast District Office and Dade County Environmental Resources Management.

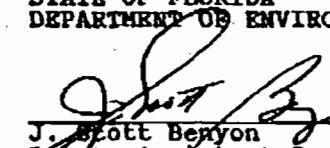
8. Unconfined emissions of particulate shall be controlled by the following means:

- Paved parking and trafficked areas shall be maintained and kept free of particulate matter build-up.
- Sprinkling with water shall be used as necessary on paved areas and stockpiles.
- Facility site shall be kept free of waste concrete from the washout pit or other sources.

9. The permittee shall be aware of and operate under the attached "General Permit Conditions #1 thru #9". General Permit Conditions are binding upon the permittee and enforceable pursuant to Chapter 403 of the Florida Statutes.

Issued this 18th day of May, 1989

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION


J. Scott Benyon
Deputy Assistant Secretary

EMISSION UNIT 9

AGGREGATE PLANT

EMISSIONS UNIT INFORMATION

Section [9]
Aggregate Plant

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 [9]
Aggregate Plant

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:
Aggregate Plant

3. Emissions Unit Identification Number: **022, 023**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 14	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--------------------------------	--------------------------	--	--

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

10. Generator Nameplate Rating: _____ MW

11. Emissions Unit Comment:
Aggregate Plant consists of seven crushers, a quarry, decks, surge bin, feed piles, screens, storage bins, various storage piles, and conveyor transfer parts. EU 022 is the portion of the Aggregate Plant subject to 40 CFR 60, Subpart OOO; EU 023 is the portion of the Aggregate Plant not subject to 40.CFR 60, Subpart OOO.

EMISSIONS UNIT INFORMATION

**Section [9]
Aggregate Plant**

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Partially enclosed transfer points

Water spray at all screens except scalping screens

2. Control Device or Method Code(s): **054, 099**

EMISSIONS UNIT INFORMATION

**Section [9]
Aggregate Plant**

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:	1,213,333 tons per month	
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 52 weeks/year	8 days/week 8,760 hours/year
6. Operating Capacity/Schedule Comment:	Maximum throughput rate is limited to 14,560,000 tons in any consecutive 12-month period.	

EMISSIONS UNIT INFORMATIONSection [9]
Aggregate Plant**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: EU 022, 023		2. Emission Point Type Code: 4	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: See Attachment TM-EU9-C3 for a list of emission points comprising this emission unit.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: F	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: 77 °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: See Attachment TM-EU9-C3.			

EMISSIONS UNIT INFORMATION

**Section [9]
Aggregate Plant**

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Stone Quarrying/Processing: Primary crushing		
2. Source Classification Code (SCC): 3-05-020-01		3. SCC Units: Tons raw material
4. Maximum Hourly Rate: 2,000	5. Maximum Annual Rate: 14,560,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Maximum hourly throughput rate is for testing purposes only [Rule 297.310(2)(b), F.A.C.].		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Stone Quarrying/Processing Miscellaneous Operations: Screen/Convey/Handling		
2. Source Classification Code (SCC): 3-05-020-06		3. SCC Units: Tons raw material
4. Maximum Hourly Rate: 2,000	5. Maximum Annual Rate: 14,560,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Maximum hourly throughput rate is for testing purposes only [Rule 297.310(2)(b), F.A.C.].		

EMISSIONS UNIT INFORMATION

Section [9]
Aggregate Plant

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter Total - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: lb/hour 35.4 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference: Permit 0250020-012-AC	7. Emissions Method Code: 0
8. Calculation of Emissions: Based on permit limit.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [9]
Aggregate Plant

POLLUTANT DETAIL INFORMATION

Page [1] of [2]
Particulate Matter Total - PM

**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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 35.4 TPY	4. Equivalent Allowable Emissions: lb/hour 35.4 tons/year
5. Method of Compliance: EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit Nos. AC13-234568 and 0250020-012-AC.	

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 [9]
Aggregate Plant

POLLUTANT DETAIL INFORMATION

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

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:
3. Potential Emissions: lb/hour 14 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference: Permit 0250020-012-AC	7. Emissions Method Code: 0
8. Calculation of Emissions: Based on permit limit.	
9. Pollutant Potential/Estimated Fugitive Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [9]
Aggregate Plant

POLLUTANT DETAIL INFORMATION

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

**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: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 14 TPY	4. Equivalent Allowable Emissions: lb/hour 14 tons/year
5. Method of Compliance: EPA Method 9	
6. Allowable Emissions Comment (Description of Operating Method): Based on Permit Nos. AC13-234568 and 0250020-012-AC.	

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 [9]
Aggregate Plant

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 3

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Rule 62-296.320(4)(b)1, F.A.C. This limit is applicable to the quarry, decks, primary crusher, crusher Y-13, feed pile, and transfer points up to the feed pile.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 3

1. Visible Emissions Subtype: VE15	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 15% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: 40 CFR 60.672(c). This limit is applicable to the secondary/tertiary crushers.	

EMISSIONS UNIT INFORMATION

Section [9]
Aggregate Plant

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 3 of 3

1. Visible Emissions Subtype: VE0	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 0 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: 40 CFR 60.672(h)(1). This limit is applicable to the primary and secondary screens and transfer points that handle wet materials.	

Visible Emissions Limitation: Visible Emissions Limitation ____ of ____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [9]
Aggregate Plant

H. CONTINUOUS MONITOR INFORMATION

Complete 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 [9]
Aggregate Plant**

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>TM-EU9-11</u> <input type="checkbox"/> Previously Submitted, Date _____
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 type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [9]
Aggregate Plant

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: TM-EU9-IV1 <input type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring <input checked="" type="checkbox"/> Attached, Document ID: CAM Plan <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
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 checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [9]

Aggregate Plant

Additional Requirements Comment

[Empty rectangular box for Additional Requirements Comment]

ATTACHMENT TM-EU9-C3

DESCRIPTION OF EMISSION POINTS

Attachment TM-EU9-C3. Emission Points and Respective Visible Emission Limits, Aggregate Plant, Tarmac Pennsuco.

ID	Description	Size	Service	NSPS Source?	VE Limit	Basis for VE Limit	Production Line	Max Process Rate
<u>Crusher Building 1</u>								
Y10	Truck Dump Hopper	280 ton capacity	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	--
Y11	Screen	168 ft ²	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	--
Y12	Screen	112 ft ²	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	--
Y13	Crusher	800 TPH	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	800 TPH
Y15	Belt Conveyor	72 inches	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	4000 TPH
<u>Transfer Tower #1</u>								
Y30	Surge Bin	75 ton capacity	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	--
Y31	Vibrating Feeder (TP Y31 to Y33)	2500 TPH	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	2500 TPH
Y32	Vibrating Feeder (TP Y32 to Y33)	2500 TPH	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	2500 TPH
<u>Transfer Tower #2</u>								
Y33	Belt Conveyor (TP Y33 to Y34)	54 inches	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	4200 TPH
Y34	Belt Conveyor (TP Y34 to Y35)	54 inches	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	4200 TPH
<u>Transfer Tower #3</u>								
Y35	Belt Conveyor (TP Y35 to Y36)	54 inches	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	4200 TPH
Y36	Belt Conveyor (to Feed Storage Piles)	54 inches	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	4200 TPH
<u>Aggregate Plant Feed Storage Pile</u>								
<u>Cement Plant Feed Pile</u>			Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	--
<u>Aggregate & Cement Plant Feed Storage Pile</u>			Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	--
Y48	Belt Conveyor (TP Y48 to Y49)	48 inches	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	2000 TPH
Y49	Belt Conveyor (TP Y49 to Y50/Y60)	48 inches	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	2800 TPH
Y110	Belt Conveyor (TP Y110 to Y49)	48 inches	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Primary Crushing/Screening	2000 TPH
<u>Secondary Tower/Transfer Tower #5</u>								
Y50	Screen (TP Y50 to Y51/Y500)	144 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	1600 TPH
Y51	Crusher (TP Y51 to Y52)	600 TPH	Saturated	Y	15%	40 CFR 60.672(c)	Secondary/Tertiary Crushing/Screening	600 TPH
Y52	Belt Conveyor (TP Y52 to Y53/Y55)	48 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	2000 TPH
Y60	Screen (TP Y60 to Y61/Y62/Y500)	144 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	1600 TPH
Y61	Crusher (TP Y61 to Y62)	600 TPH	Saturated	Y	15%	40 CFR 60.672(c)	Secondary/Tertiary Crushing/Screening	600 TPH
Y62	Belt Conveyor (TP Y62 to Y63/Y65)	48 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	2000 TPH
<u>Tower #6 - Screening and Crushing</u>								
Y53	Screen (TP Y53 to Y54/Y571/Y71A)	168 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	750 TPH
Y54	Crusher (TP Y54 to Y57)	400 TPH	Saturated	Y	15%	40 CFR 60.672(c)	Secondary/Tertiary Crushing/Screening	400 TPH
Y55	Screen (TP Y55 to Y56/Y71/Y71A)	168 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	750 TPH
Y56	Crusher (TP Y56 to Y57)	500 TPH	Saturated	Y	15%	40 CFR 60.672(c)	Secondary/Tertiary Crushing/Screening	500 TPH
Y57	Belt Conveyor (TP Y57 to Y58)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	1200 TPH
Y58	Belt Conveyor (TP Y58 to Y52/C-1)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	1200 TPH
Y62A	Stick Conveyor (Y62A to Y62)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	1000 TPH
Y63	Screen (TP Y63 to Y71/Y71A/SP 1)	168 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	750 TPH
Y64	Crusher (TP Y64 to Y67)	500 TPH	Saturated	Y	15%	40 CFR 60.672(c)	Secondary/Tertiary Crushing/Screening	500 TPH
Y65	Screen (TP Y65 to Y71/Y71A/SP 1)	168 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	750 TPH
Y66	Crusher (TP Y66 to Y67)	400 TPH	Saturated	Y	15%	40 CFR 60.672(c)	Secondary/Tertiary Crushing/Screening	400 TPH
Y67	Belt Conveyor (TP Y67 to Y68)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	1200 TPH
Y68	Belt Conveyor (TP Y68 to Y62/C-1)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	1200 TPH
Y71	Belt Conveyor (TP Y71 to Y73/Y80)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	1800 TPH
Y71A	Belt Conveyor (TP Y71A to Y73/Y80)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	1800 TPH
C-1	Belt Conveyor (TP C-1 to C-2)	48 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--

Attachment TM-EU9-C3. Emission Points and Respective Visible Emission Limits, Aggregate Plant, Tarmac Pennsuco.

ID	Description	Size	Service	NSPS Source?	VE Limit	Basis for VE Limit	Production Line	Max Process Rate
C-2	Belt Conveyor <u>Tower #6A</u>	48 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
	Screens (TP to C-3/C-5/C-9)	192 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	750 TPH
C-3	Belt Conveyor (TP C-3 to C-4)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
C-4	Belt Conveyor (Recycle back to Y50/Y60)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
C-5	Belt Conveyor (TP C-5 to C-6/C-8)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
C-6	Belt Conveyor (TP C-6 to C-7)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
C-7	Belt Conveyor	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
C-8	Belt Conveyor (TP C-8 to Y71A)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
YC-8A	Belt Conveyor (to Reclaim Hopper)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
C-9	Belt Conveyor (TP C-9 to C-10)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
C-10	Belt Conveyor (TP C-10 to C-11)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
C-11	Belt Conveyor	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
	Screens (TP to C-3/C-5/C-9/SP 2)	192 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	750 TPH
Y500	Stick Conveyor (TP Y500 to Y501)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	1000 TPH
Y501	Radial Stacker (TP Y501 to Y502)	42 inches	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Secondary/Tertiary Crushing/Screening	1000 TPH
Y502	Elevated Conveyor	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	400 TPH
	<u>Transfer Tower #7</u>							
Y73	Belt Conveyor (TP Y73 to Y74)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
Y74	Radial Stacker	48 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
	<u>Cement Plant Blend Pile</u>	--	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Secondary/Tertiary Crushing/Screening	--
Y76	Belt Conveyor (TP Y76 to Y78)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
Y76.1	Belt Conveyor (TP Y76.1 to Y76) Hoppers	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
		--	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Secondary/Tertiary Crushing/Screening	--
Y77	Belt Conveyor (TP Y77 to Y79)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
Y77.1	Belt Conveyor (TP Y77.1 to Y77)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
Y78	Belt Conveyor (TP Y78 to Y79)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
Y80	Belt Conveyor (TP Y80 to 80/80A/81)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Secondary/Tertiary Crushing/Screening	--
	<u>Transfer Tower #9</u>							
Y79	Belt Conveyor (TP Y79 to Y102/Y210A)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
	<u>Transfer Tower #10</u>							
Y102	Belt Conveyor	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
Y210A	Belt Conveyor (TP Y210A to Y212W/Y212E)	30 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
	<u>Transfer Tower #80, 80A, 80B</u>							
80	Screen (TP 80 to 85/90A/95)	160 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	750 TPH
80A	Screen (TP 80A to 84/89/95A)	160 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	600 TPH
80B	Screen (80B to 95B/406/85/90A)	160 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	750 TPH
81	Belt Conveyor (TP 81 to 80B)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
84	Belt Conveyor (TP 84 to 85/85A)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
85A	Belt Conveyor	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
85B	Belt Conveyor	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
89	Belt Conveyor (TP 89 to 90A)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
95	Belt Conveyor (TP 95 to 100)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
95A	Belt Conveyor (TP 95A to 100A)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
95B	Belt Conveyor	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
	<u>GR 57 (Storage Pile)</u>	--	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Finishing Plant	--

Attachment TM-EU9-C3. Emission Points and Respective Visible Emission Limits, Aggregate Plant, Tarmac Pennsuco.

ID	Description	Size	Service	NSPS Source?	VE Limit	Basis for VE Limit	Production Line	Max Process Rate
<u>Transfer Tower #100, 100A, 100B</u>								
100	Screen (100 to 105/110/115/117)	160 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	750 TPH
100A	Screen (TP 100A to 104/109/114/117)	160 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	600 TPH
100B	Screen (100B to 101/105/110/117)	160 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	750 TPH
101	Belt Conveyor (TP 101 to 115)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
104	Belt Conveyor (TP 104 to 105)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
109	Belt Conveyor (TP 109 to 109A)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
109A	Belt Conveyor	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
114	Belt Conveyor (TP 114 to 115)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
<u>GR 16 (Storage Pile)</u>								
		--	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Finishing Plant	--
85	Belt Conveyor	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
85B	Belt Conveyor	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
90A	Belt Conveyor (TP 90A to 90B/90C)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
90B	Belt Conveyor	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
90C	Belt Conveyor	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
105	Belt Conveyor	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
110	Belt Conveyor	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
115	Belt Conveyor	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
210	Belt Conveyor (TP 210 to 212E/212W)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
<u>Product Storage Piles</u>								
	Pile "1/4", Basic 1 (TP to Y210)	--	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
	Pile "3/8", Basic 2 (TP to Y210)	--	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
	Pile "1/2", Basic 3 (TP to Y210)	--	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
	Pile "3/4", Basic 4 (TP to Y210)	--	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
	Pile "1", Basic 5 (TP to Y210)	--	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
	Pile Ballast, Basic 7 (TP to Y210)	--	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
<u>Transfer Tower #210</u>								
212E	Belt Conveyor (TP 212E to 215E)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
212W	Belt Conveyor	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
<u>Transfer Tower #215</u>								
215E	Screens (TP 215E to 220/385N/385S/410)	160 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	1000 TPH
215W	Screen (TP 215W to 220/385S/385N/410)	192 ft ²	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	1000 TPH
220	Belt Conveyor (TP 220 to 225)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	1000 TPH
385N	Belt Conveyor (TP 385N to 385)	30 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
385S	Belt Conveyor (TP 385S to 385)	30 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Finishing Plant	--
225	Five Position Turn Head (TP to 230)	--	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Load Out	--
230	Belt Conveyor (to Storage Bins)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Load Out	--
	Storage Bins	--	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Load Out	--
290	Belt Conveyor (TP 290 to 296)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Load Out	--
296	Belt Conveyor (TP 296 to 300)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Load Out	--
295	Belt Conveyor (TP 295 to 297)	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Load Out	--
297	Belt Conveyor	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Load Out	--
300	Belt Conveyor	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Load Out	--
303	Belt Conveyor	42 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Load Out	--
385	Belt Conveyor	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Load Out	--

Attachment TM-EU9-C3, Emission Points and Respective Visible Emission Limits, Aggregate Plant, Tarmac Pennsuco.

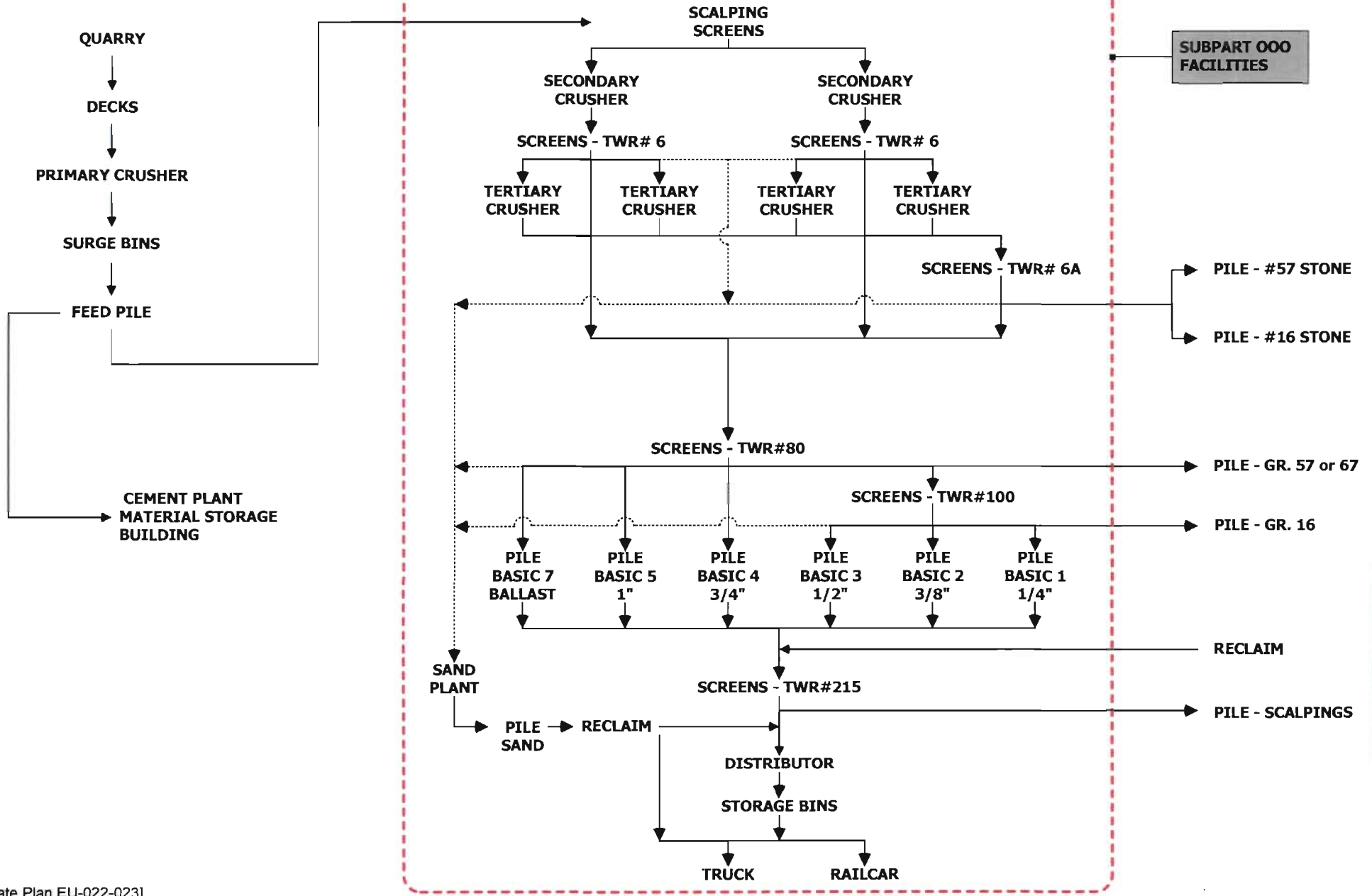
ID	Description	Size	Service	NSPS Source?	VE Limit	Basis for VE Limit	Production Line	Max Process Rate
	Scalpings Pile	--	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Load Out	--
390	Belt Conveyor (TP 390 to 395)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Load Out	--
395	Shuttle (to Storage Bins)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Load Out	--
	Railcar Loading	--	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Load Out	--
	Truck Loading	--	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Load Out	--
<u>Sand Plant</u>								
340	Belt Conveyor (TP 340 to 355)	30 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--
345	Belt Conveyor (TP 345 to 360)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--
345A	Belt Conveyor (TP 345A to 360)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--
350	Belt Conveyor (TP 350 to 370)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--
355	Belt Conveyor (to Storage Piles)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--
360	Belt Conveyor (to Storage Piles)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--
370	Belt Conveyor (to Storage Piles)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--
	Sand Storage Piles	--	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Sand Plant	--
390	Belt Conveyor (TP 390 to 395)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--
	Sand Hopper	--	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Sand Plant	--
620	Screw Dehydrator (TP to 640)	228 ft ²	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Sand Plant	--
625	Screw Dehydrator (TP to 645)	192.5 ft ²	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Sand Plant	--
630	Screw Dehydrator (TP to 650)	228 ft ²	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Sand Plant	--
635	Screw Dehydrator (TP to 655)	192.5 ft ²	Saturated	N	20%	Rule 62-296.320(4)(b)1., F.A.C.	Sand Plant	--
640	Belt Conveyor (TP 640 to 340/345/345A)	36 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--
645	Belt Conveyor (TP 645 to 340/345/350)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--
650	Belt Conveyor (TP 650 to 340/345/350)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--
655	Belt Conveyor (TP 655 to 340/345/350)	24 inches	Saturated	Y	0%	40 CFR 60.672(h)(1)	Sand Plant	--

Sources: Golder (2001) and Tarmac (1999).

TP = Transfer Point

ATTACHMENT TM-EU9-I1

PROCESS FLOW DIAGRAM



Aggregate Plan EU-022-023]

DESCRIPTION
Attachment TM-EU9-I1
Process Flow Diagram

TITLE: PENNSUCO CEMENT

FILENAME: NEW PLOT PLANS.VSD/TM-EU9-I1

LAST REVISION DATE: 4/27/2005



ATTACHMENT TM-EU9-IV1

LIST OF APPLICABLE REGULATIONS

ATTACHMENT TM-EU9-IV1**LIST OF APPLICABLE REGULATIONS
FOR THE AGGREGATE PLANT**

40 CFR 60.670 – Applicability and Designation of Affected Facility
40 CFR 60.672(b) – Standard for Particulate Matter
40 CFR 60.672(c) – Standard for Particulate Matter
40 CFR 60.672(d) – Standard for Particulate Matter
40 CFR 60.675(a) – Test Methods and Procedures
40 CFR 60.675(c)(1) – Test Methods and Procedures
40 CFR 60.675(c)(3) – Test Methods and Procedures
40 CFR 60.675(c)(4) – Test Methods and Procedures
40 CFR 60.675(e) – Test Methods and Procedures
40 CFR 60.675(g) – Test Methods and Procedures
40 CFR 60.675(h) – Test Methods and Procedures
40 CFR 60.676(a) – Reporting and Recordkeeping
40 CFR 60.676(f) – Reporting and Recordkeeping
40 CFR 60.676(g) – Reporting and Recordkeeping
40 CFR 60.676(h) – Reporting and Recordkeeping
40 CFR 60.676(i) – Reporting and Recordkeeping
40 CFR 60.676(j) – Reporting and Recordkeeping
62-296.320(4)(b)(1) – General Visible Emissions Standard
62-297.310(4)(a)2 – General Compliance Test Requirements
62-297.310(7)(a)4 – General Compliance Test Requirements
62-297.310(7)(a)7 – General Compliance Test Requirements
62-297.310(8)(a) – Test Reports
62-297.310(8)(b) – Test Reports



CERTIFIED MAIL 7000 0600 0027 7981 6304
RETURNED RECEIPT REQUESTED

ENVIRONMENTAL RESOURCES MANAGEMENT
AIR QUALITY MANAGEMENT DIVISION
33 S.W. 2nd AVENUE
SUITE 900
MIAMI, FLORIDA 33130-1540
TELEPHONE: (305) 372-6925
FAX: (305) 372-6954

NOTICE OF PERMIT

In the Matter of an
Application for Permit by:

Mr. Hardy Johnson
Vice President, Florida Division
Tarmac America, Inc.
455 Fairway Drive
Deerfield Beach, Florida 33441

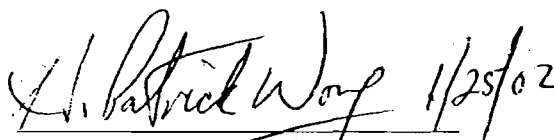
Permit No.: 0250020-012-AC
Tarmac Pennsuco
Effective Date: January 25, 2002
Expiration Date: July 31, 2002

Dear Mr. Johnson:

Enclosed is Construction Permit Number 0250020-012-AC for the aggregate plant of the Tarmac Pennsuco facility located at 11000 NW 121 Way, Medley, Miami-Dade County, issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the permitting authority in the Legal Office; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the permitting authority.

Executed in Miami-Dade County, Florida.
Department of Environmental
Resources Management


H. Patrick Wong, Chief
Air Quality Management Division

JAN 30 2002
GAINESVILLE

CERTIFICATE OF SERVICE

The undersigned duly designated clerk hereby certifies that this NOTICE OF PERMIT (including the Construction Permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 1/25/2002 to the person(s) listed or as otherwise noted:

Hardy Johnson*
Scott Quaas, Tarmac America, Inc.
David Buff, P.E., Golder Associates
Scott Sheplak, Bureau of Air Regulation (INTERNET E-mail Memorandum)
Ms. Barbara Friday, Bureau of Air Regulation (INTERNET E-mail Memorandum)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency Clerk, receipt of which is hereby acknowledged.

M. Harris
(Clerk)

1/25/2002
(Date)

Final Construction Permit Determination

An Intent to Issue an air construction permit for Tarmac America, Inc. for its facility located at 11000 NW 121 Way, Medley, Florida to lift the limitation on hours of operation was distributed on November 2, 2001. The Notice of Intent to Issue was published in the Miami Daily Business Review on December 24, 2001.

I. Comment(s).

A. No comments were received during the public comment period. However, the following changes were made:

- a. The issue date and the expiration date were added to the permit.
- b. The name of the permittee was changed:

FROM: Mr. Scott Quaas, Environmental Manager

TO: Mr. Hardy Johnson
President, Florida Division

- c. The first paragraph in the permit letter was reworded as follows to clarify the incorporation of the terms and conditions of Permit No. AC13-234568:

FROM: This construction permit is issued to modify federally enforceable specific conditions established in Air Construction Permit No. AC13-234568 (expired September 1995). AC13-234568 authorized the construction of the aggregate plant, which is located at 11000 NW 121 Way, in Medley, Florida, adjacent to Tarmac's Portland cement manufacturing plant. The conditions established in AC13-234568, along with the modifications herein, will be incorporated into the Title V Air Operation Permit Revision, under revision number 0250020-011-AV.

TO: This construction permit incorporates the terms and conditions of Air Construction Permit No. AC13-234568 (expired September 1995) with the modifications to Specific Conditions No.4 and No.8, as established in items numbered 1 and 2 below. AC13-234568 authorized the construction of the aggregate plant, which is located at 11000 NW 121 Way, in Medley, Florida, adjacent to Tarmac's portland cement manufacturing plant. The terms and conditions of this construction permit, Permit No.0250020-012-AC, will be incorporated into the forthcoming Title V Air Operation Permit Revision, under revision number 0250020-011-AV.

II. Conclusion.

The above-mentioned changes do not significantly affect the permit. Hence, the permitting authority hereby issues the Final Construction Permit, with any changes noted above.



ENVIRONMENTAL RESOURCES MANAGEMENT
AIR QUALITY MANAGEMENT DIVISION
33 S.W. 2nd AVENUE
SUITE 900
MIAMI, FLORIDA 33130-1540
TELEPHONE: (305) 372-6925
FAX: (305) 372-6954

January 25, 2002

CERTIFIED MAIL: 7000 0600 0027 7981 6304
RETURN RECEIPT REQUESTED

Tarmac America, Inc.
455 Fairway Drive
Deerfield Beach, Fl 33441

Authorized Representative:
Hardy Johnson
President, Florida Division:

Permit No. 0250020-012-AC
Tarmac America, Inc. – Tarmac Pennsuco
Aggregate Plant
Issue Date: January 25, 2002
Expiration Date: July 31, 2002

Dear Mr. Johnson:

This construction permit incorporates the terms and conditions of Air Construction Permit No. AC13-234568 (expired September 1995) with the modifications to Specific Conditions No.4 and No.8, as established in items numbered 1 and 2 below. AC13-234568 authorized the construction of the aggregate plant, which is located at 11000 NW 121 Way, in Medley, Florida, adjacent to Tarmac's portland cement manufacturing plant. The terms and conditions of this construction permit, Permit No. 0250020-012-AC, will be incorporated into the forthcoming Title V Air Operation Permit Revision, under revision number 0250020-011-AV.

The changes in throughput and hours of operation requested by the permittee and established in this construction permit, are not expected to cause an increase in air emissions, due to the limitations on monthly and annual throughput. Therefore, Specific Condition Nos. 4 and 8 of AC13-234568, are changed as follows:

1. Specific Condition No. 4 is hereby changed:

FROM: The overall throughput capacity of the facility shall not exceed 2,000 tons per hour (40,000 tons/day).

TO: Permitted Capacity:

- a. For New Source Review (NSR) purposes, the processed raw material throughput is limited to 1,213,333 tons per month (14,560,000 tons in any consecutive 12-month period). See Table 1 of this subsection for the capacity of each component of the nonmetallic mineral processing plant equipment. [Rule 62-210.200, F.A.C; and, requested by the permittee in the Title V Revision Application received June 6, 2001]
- b. For testing purposes, the maximum throughput is 2,000 tons per hour. [Rule 297.310(2)(b), F.A.C.]

Permit No.: 0250020-012-AC
Tarmac America, Inc. – Tarmac Pennsuco
Aggregate Plant

2. Specific Condition No. 8 is hereby changed:

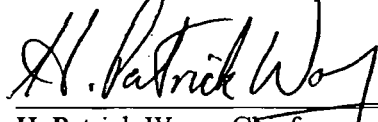
FROM: The operation of the sources covered by this permit shall be limited to 20 hours/day, 7 days/week and 52 weeks/year.

TO: Hours of Operation: The referenced emissions unit(s) may operate continuously (8760 hours per year).
[Rule 62-210.200 (PTE), F.A.C., 0250020-012-AC; and, requested by the permittee in the Title V Revision Application received June 6, 2001]

This permit (letter) is issued pursuant to Chapter 403, Florida Statutes (F.S.). Any party to this order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Miami-Dade County, Florida

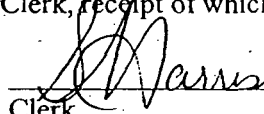
DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT

 1/25/02
H. Patrick Wong, Chief
Air Quality Management Division

Enclosure: AC13-234568

cc: David A. Buff, P.E., Golder Associates Inc.
Scott Quaas, Tarmac America, Inc.

FILING AND ACKNOWLEDGMENT: FILED, on this date, pursuant to § 120.52(7), F.S., with the designated Department Clerk, receipt of which is hereby acknowledged.


Clerk

1/25/02
Date



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

Virginia B. Wetherell
Secretary

PERMITTEE:

Mr. Scott Quaas, Environmental Manager
Tarmac Florida, Inc.
455 Fairway Drive
Deerfield Beach, Florida 33441

I.D. NUMBER: 50/DAD/13/0617

PERMIT/CERTIFICATION NUMBER: AC 13-234568

DATE OF ISSUE: NOV 18 1993

EXPIRATION DATE: October 12, 1994

COUNTY: Dade

LATITUDE/LONGITUDE: 25°52'30"N/80°22'30"W

UTM: Zone 17; 562.8 Km. E; 2861.7 Km. N

PROJECT: Tarmac Florida, Inc.

Nonmetallic Mineral Processing

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule 17-210, 296 and 297 and 17-4, and in conformance with all existing regulations of the Florida Department of Environmental Protection. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

MODIFY: Existing equipment in the aggregate plant. The facility consists of crushing, screening and conveying operation, storage bins, and rail and truck loadout operations. The modified facility is expected to emit maximum annual emission of 35.4 TPY of PM and 14 TPY of PM₁₀ based on AP-42 emission factors calculated and submitted with application to this office (thereby avoiding PSD Review).

IN ACCORDANCE WITH: Application to Modify existing aggregate plant received July 16, 1993, and Public Notice of Intent issued October 12, 1993, and published October 25, 1993, in the Miami Daily Business Review. (none are attached)

LOCATED AT: 11000 N.W. 121 Way, Medley, Dade County, Florida.

TO SERVE: Nonmetallic mineral processing plant (SIC # 3295).

SUBJECT TO: General Conditions 1-14 and Specific Conditions 1-10.

NOV 18 1993

GENERAL CONDITIONS:

- (b) The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department, may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following :

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically, unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit, records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
- (c) Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

NOV 18 1993

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - (a) Have access to and copy any records that must be kept under the conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in the permit, the permittee shall immediately notify and provide the Department with the following information:
 - (a) A description of and cause of noncompliance; and

PERMITTEE:

Mr. Scott Quaas, Environmental Manager
Farmac Florida, Inc.
455 Fairway Drive
Deerfield Beach, Florida 33441

I.D. NUMBER: 50/DAD/13/0617

PERMIT/CERTIFICATION NUMBER: AC 13-234568

DATE OF ISSUE: NOV 18 1993

EXPIRATION DATE: October 12, 1994

SPECIFIC CONDITIONS:

1. Permit Requirements

Application for a permit to operate, along with the initial compliance test report, shall be submitted to the Department at least sixty (60) days prior to the expiration of this permit, but in no case more than fourteen (14) days after commencement of operation. In no case shall a source be operated without an appropriate operating permit. The Certification of Completion of Construction, DEP Form 17-1.202(3) may be submitted in lieu of the application for a permit to operate.

2. Emission Limiting Standards

- a) In accordance with 40 CFR 60.670 (Subpart 000), Pursuant to Florida Administrative Code Rule 17-296.800 - No owner or operator shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10% opacity (15% for crushers).
- b) In accordance with Florida Administrative Code Rule 17-296.310(2)(a) - Visible Emissions from primary crusher, storage piles and all other nonaffected transfer points shall be limited to 20% opacity.

3. The compliance test report shall include results of tests by the following methods:

<u>Source/Emission Point</u>	<u>Pollutant</u>	<u>Test Method</u>
Affected facilities (conveying, screening, storage bins, rail and truck loadout operations)	Visible Emissions	DEP Method 9
Affected facilities - crushers	Visible Emissions	DEP Method 9
Primary crusher, storage piles and all other nonaffected transfer points	Visible Emissions	DEP Method 9

The compliance test report shall be submitted to the Department in accordance with Florida Administrative Code (F.A.C.) Rule 17-297.570.

- 4. The overall throughput capacity of the facility shall not exceed 2,000 tons per hour (40,000 tons/day).
- 5. Testing of emissions should be conducted using the fuel and/or process input which are expected to result in the highest emissions and at 90 - 100% of the rated capacity of the source. If a source is not tested at 90 - 100% of rated capacity, the source may not be operated above 110% of the test load until a new test is conducted. The source is only allowed to operate for 15 days above the 110% rate to conduct the new test to regain the rated capacity in the permit.

PERMITTEE:

Mr. Scott Quaas, Environmental Manager
Pharmacia Florida, Inc.
455 Fairway Drive
Deerfield Beach, Florida 33441

I.D. NUMBER: 50/DAD/13/0617

PERMIT/CERTIFICATION NUMBER: AC 13-234568

DATE OF ISSUE: NOV 18 1993

EXPIRATION DATE: October 12, 1994

SPECIFIC CONDITIONS:


- 6. The Department and Dade County Environmental Resources Management shall be notified of expected test dates at least fifteen (15) days prior to compliance testing.
- 7. Copies of all reports, tests, notifications or other submittals required by this permit shall be submitted to both the Department of Environmental Protection, Southeast District Office and Dade County Environmental Resources Management.
- 8. The operation of the sources covered by this permit shall be limited to 20 hours/day, 7 days/week and 52 weeks/year.
- 9. Unconfined emissions of particulate shall be controlled by the following means:
 - a) Paved parking and trafficked areas shall be maintained and kept free of particulate matter build-up.
 - b) Sprinkling with water shall be used as necessary on paved areas and stockpiles.

The Permittee shall be aware of and operate under the attached "General Permit Conditions Numbers 1 thru 14". General Permit Conditions are binding upon the Permittee and enforceable pursuant to Chapter 403 of the Florida Statutes.

Executed in West Palm Beach, Florida.

MESW:nk/ms

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



 Mary E.S. Williams
 Director of District Management

EMISSION UNIT 10

UNREGULATED UNITS

EMISSIONS UNIT INFORMATION

Section [10]

Facility-Wide Unregulated Units

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 [10]

Facility-Wide Unregulated Units

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:
Facility-Wide Unregulated Units

3. Emissions Unit Identification Number: **030**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 32	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--------------------------------	--------------------------	--	--

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

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

This emission unit contains other unregulated sources at this facility that contribute to the facility-wide emissions not addressed in any other emission unit in the application. Unregulated sources at the facility are facility-wide particulate matter fugitive emissions from miscellaneous activities such as truck operations throughout the facility, wind erosion, storage tanks, etc.

EMISSIONS UNIT INFORMATION

Section [10]

Facility-Wide Unregulated Units

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

2. Control Device or Method Code(s):

EMISSIONS UNIT INFORMATION

Section [10]

Facility-Wide Unregulated Units

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:		
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:	hours/day weeks/year	days/week hours/year
6. Operating Capacity/Schedule Comment:		

EMISSIONS UNIT INFORMATION

Section [10]

Facility-Wide Unregulated Units

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:		2. Emission Point Type Code: 3	
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:	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:			

EMISSIONS UNIT INFORMATION

Section [10]

Facility-Wide Unregulated Units

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Raw Material Transfer		
2. Source Classification Code (SCC): 3-05-006-12		3. SCC Units: Tons Transferred or Handled
4. Maximum Hourly Rate: 425	5. Maximum Annual Rate: 3,723,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Process rate is material feed on a dry basis. Equivalent to 250 TPH and 2,190,000 TPY clinker production.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Cement Manufacturing: Dry Process: Other Not Classified		
2. Source Classification Code (SCC): 3-05-006-99		3. SCC Units: Tons Cement Produced
4. Maximum Hourly Rate: 500	5. Maximum Annual Rate: 2,400,000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Reflects total cement production from 2,190,000 TPY clinker production.		

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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:		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8. Calculation of Emissions:			
9. Pollutant Potential/Estimated Fugitive Emissions Comment:			

**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 ____ 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):	

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 [10]

Facility-Wide Unregulated Units

H. CONTINUOUS MONITOR INFORMATION

Complete 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 [10]

Facility-Wide Unregulated Units

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</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 type="checkbox"/> Previously Submitted, Date _____</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 type="checkbox"/> Previously Submitted, Date _____</p>
<p>4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p> <p><input 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 type="checkbox"/> Not Applicable</p>
<p>6. Compliance Demonstration Reports/Records</p> <p><input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____</p> <p><input 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 type="checkbox"/> Not Applicable</p>

EMISSIONS UNIT INFORMATION

Section [10]

Facility-Wide Unregulated Units

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input 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 type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
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

EMISSIONS UNIT INFORMATION

Section [10]

Facility-Wide Unregulated Units

Additional Requirements Comment

--