Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard, Jr.
Secretary

Florida Department of Environmental Protection

Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

FINAL PERMIT

PERMITTEE

Vulcan Materials Company/Florida Rock Division
d/b/a Florida Cement, Inc. – Port Manatee
2001 Maritime Blvd.
Tampa, FL 33605-6760

Authorized Representative:
Mr. Harrinarine Mootoor, Plant Manager

Air Permit No. 0810011-016-AC
Permit Expires: 12/20/2014
Site Name : Florida Cement, Inc. – Port Manatee
Minor Air Construction
Project Name: Construction Permit Modification

This is the final air construction permit for the construction modification of a portland cement finish grinding plant and bulk material handling facility. The proposed work will be conducted at the Florida Cement, Inc. – Port Manatee facility (Standard Industrial Classification No. 3241). The facility is located in Manatee County at 304 National Street in Palmetto, Florida. The UTM coordinates are Zone 17, 345.95 km East, and 3057.83 km North. As noted in the Final Determination provided with this final permit, no changes or only minor changes and clarifications were made to the draft permit.

This final permit is organized by the following sections:

Section 1. General Information
Section 2. Administrative Requirements
Section 3. Facility-Wide and Emission Units Specific Conditions
Section 4. Appendices

Due to the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

This air pollution 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 permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes 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 30 days after this order is filed with the clerk of the Department.

Executed in Hillsborough County, Florida

_____ _____

Robert C. Wong Effective Date
District Air Program Administrator
Southwest District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination, the Final Permit and the Appendices) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on _____ to the persons listed below.

Mr. Harrinarine Mootoor, Plant Manager
Vulcan Materials Co./Florida Rock Division
mootoorh@vmcmail.com

Mr. John B. Koogler, Ph.D., P.E.
Koogler & Associates, Inc.
jkoogler@kooglerassociates.com

Mr. James Burkholder, Environmental Manager
Vulcan Materials Co./ Florida Rock Division
burkholderj@vmcmail.com

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.

_____ _____

(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

The existing facility consists of a portland cement finish grinding plant and bulk material handling facility. The facility was considered a PSD major source for the pollutant particulate matter (PM) and is subject to the New Source Performance Standards (NSPS) requirements of Title 40, Code of Federal Regulation (CFR), Subpart F- Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800(8), F.A.C. The existing facility was previously permitted for the following emissions units.

E.U. ID No.	Emission Unit Description
004	West Unloading Hopper
009	East Unloading Hopper
020	Berth 6 Dockside Transfer Point
021	Berth 6 Transfer Point #2
022	Berth 6 Transfer Point #3
015	Incline Belt No. 4 to Transfer Tower Warehouse #1
018	Transfer Tower Warehouse #1/Kinder Morgan Belt to Incline Belt No. 3
016	Transfer Tower No. 2
017	Storage Building & Transfer Point in Building
001	Clinker Storage Silo No. 1 & Gypsum Storage Silo
011	Clinker Storage Silo No. 2
023	Slag and Limestone Feed System
002	Ball Mill No. 1
012	Ball Mill No. 2
010	Cement Storage Silo Nos. 1 & 2 (Tall)
003	Cement Truck Loading
024	Plant Wide Fugitive Emissions (excluding EU No. 023) & referenced in Permit No. 0810011-010-AF/0810011-009-AC as Unregulated.

Project Description and Affected/Proposed Emission Units

This permit modifies and replaces Construction Permit No. 0810011-013-AC and incorporates the changes made in Construction Permit Amendment No. 0810011-015-AC.

The following modifications were authorized by Construction Permit No. 0810011-013-AC and remain unchanged:

- Establish the facility is a synthetic non-Title V facility.

- Establish the facility is a synthetic non-PSD major facility.
- Change the basis of how the facility's process emissions are determined to a "lbs./ton emission factor per type of material" from a "grains/dry standard cubic feet (gr/dscf) emission factor per an emission control device's exhaust airflow rate".
- Increase the amount of clinker the facility receives from 864,000 tons per any consecutive 12-month period to 1,264,000 tons per any consecutive 12-month period.
- Allow the facility to receive a maximum of 250,000 tons of Dry Fly Ash per any consecutive 12-month period.
- Allow the facility to receive a maximum of 200,000 tons of Non-Produced Cement per any consecutive 12-month period. Non-Produced Cement means cement produced/manufactured off-site.
- Allow the facility to receive a maximum of 150,000 tons of Wet Fly Ash per any consecutive 12-month period.
- Add the capability to receive gypsum, non-produced cement, wet fly ash, and dry fly ash by truck.
- Add the capability to receive wet fly ash by ship.
- Add the capability to receive clinker by truck and a railcar unloading system.
- Add the capability to export gypsum, non-produced cement, clinker, and limestone/slag by truck.
- Add the capability to export by ship produced cement, non-produced cement, dry fly ash, and clinker. Produced cement means cement that was produced/manufactured at this facility.
- Add the capability for Emission Unit No. 045 - Cement Storage Silo Nos. 1 and 2 to also be loaded with non-produced cement or dry fly ash from ships.

The following modifications were authorized by Construction Permit Amendment No. 0810011-015-AC and are incorporated in this permit:

- Allow the facility to receive by ship and export via truck a maximum of 400,000 tons of phosphate rock per any consecutive 12-month period.
- The amount of phosphate rock received by ship and the amount of clinker received by ship shall not exceed a total of 1,264,000 tons per any consecutive 12-month period.
- The amount of phosphate rock exported by truck and the amount of clinker for non-cement production exported by truck shall not exceed a total of 400,000 tons per any consecutive 12-month period.

The following modifications are authorized by this construction permit:

- Reduce the visible emission testing frequency for emission units subject to 40 CFR 60, Subpart F from annually to prior to permit renewal.
- Delete the routine scheduled visible emission testing requirements for emission units not subject to 40 CFR 60, Subpart F.
- Delete the hourly material handling rate limitations and changing the recordkeeping requirements for all emission units.
- Allow Emission Unit No. 042 (Wet Fly Ash received by Ship to Hoppers to Trucks) to be operated by another facility that has a valid air pollution permit.

- Allow Emission Unit No. 043 (Trucks with Wet Fly Ash to Clinker & West Fly Ash Storage Building) to have trucks with wet fly ash for non-cement production from Emission Unit No. 042 or from other facilities and unloaded in the Clinker & Wet Fly Ash Storage Building.
- Limit Emission Unit No. 043 to unloading a maximum of 150,000 tons of wet fly ash per any consecutive 12-month period.
- Incorporate the amendments established in Construction Permit Amendment No. 0810011-015-AC.

After the above modifications are completed, the facility's and facility's emission units' descriptions are as follows:

The facility consists of a portland cement finish grinding plant and bulk materials handling facilityhandling operations. Additional details of the facility are as follows:

- The Portland Cement Finish Grinding Plant and its associated emission activities related to producing cement are subject to the New Source Performance Standards (NSPS) requirements of Title 40, Code of Federal Regulation (CFR), Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800(8), F.A.C.

- The facility receives a maximum of the following materials per any consecutive 12-month period:

  864,000 tons of Clinker for cement production received by railcar, ship, or truck.
  400,000 tons of Clinker for non-cement production received by railcar, ship, or truck.
  400,000 tons of phosphate rock per any consecutive 12-month period. {The amount of phosphate rock received by ship and the amount of clinker received by ship shall not exceed a total of 1,264,000 tons per any consecutive 12-month period.}
  86,400 tons of Gypsum (natural or synthetic) for cement production received by ship or truck.
  22,000 tons of Limestone/Slag for cement production received by truck.
  150,000 tons of Wet Fly Ash for non-cement production received by ship or truck.
  250,000 tons of Dry Fly Ash for non-cement production received by truck or ship.
  200,000 tons of Non-Produced Cement received by truck or ship.

- The facility exports a maximum of the following materials per any consecutive 12-month period:

  864,000 tons of Produced Cement by ship or truck.
  200,000 tons of Non-Produced Cement by ship or truck.
  400,000 tons of Clinker by ship or truck.
  400,000 tons of phosphate rock per any consecutive 12-month period. {The amount of phosphate rock exported by truck and the amount of clinker for non-cement production exported by truck shall not exceed a total of 400,000 tons per any consecutive 12-month period.}
  86,400 tons of Gypsum by truck.
  150,000 tons of Wet Fly Ash by truck.

250,000 tons of Dry Fly Ash by ship or truck.

- The emission factors used to determine un-controlled emissions from processing material are as follows:

	PM lbs./ton	PM_{10} lbs./ton
Limestone/Slag	0.000790	0.000374
Wet Fly Ash	0.000272	0.000129
Dry Fly Ash	0.302	0.143
Gypsum	0.000479	0.000227
Cement/Clinker	0.1146	0.0542
Phosphate Rock	0.0037	0.0018

Section 3. Subsection ID	E.U. ID No.	Emission Unit Description for emission units subject to the NSPS requirements of 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants
A.	025	Clinker received by Ships
B.	026	Clinker received by Railcars
C.	027	Clinker received by Truck
D.	028	Gypsum received by Ship to Hoppers to Trucks
E.	029	Gypsum/Limestone/Slag received by Trucks
F.	030	Clinker from Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 1
F.	031	Clinker from Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 2
G.	032	Gypsum from Storage Piles to Gypsum Storage Silo
H.	033	Finish Mill No. 1
I.	034	Limestone/Slag to Gypsum Belt for Finish Mill No. 2
I.	035	Finish Mill No. 2
J.	036	Produced Cement to Cement Storage Silo Nos. 1 and 2
K.	037	Truck Loading of Produced Cement
L.	038	Produced Cement Exported via Kinder Morgan System
M.	039	Produced Cement Exported via Pneumatic Conveyance to Ship
N.	040	Produced Cement Exported via Trucks to Ship

Section 3 Subsection ID	E.U. ID No.	Emission Unit Description for emission units NOT subject to the NSPS requirements of 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants
O.	041	Wet Fly Ash and Phosphate Rock received by Ships to Clinker & Wet Fly Ash Storage Building
P.	042	Wet Fly Ash received by Ship to Hoppers to Trucks
P.	043	Trucks with Wet Fly Ash to Clinker & Wet Fly Ash Storage Building
Q.	044	Truck Loading of Clinker/Wet Fly Ash/Gypsum/Phosphate Rock for Export
R.	045	Non-Produced Cement/Dry Fly Ash to Cement Storage Silo Nos. 1 and 2
S.	046	Truck Loading of Non-Produced Cement/Dry Fly Ash for Export
T.	047	Clinker from Clinker & Wet Fly Ash Storage Building Exported via Kinder Morgan System
U.	048	Non-Produced Cement Exported via Kinder Morgan System
V.	049	Clinker from Clinker Storage Silo No. 1 Exported via New Diagonal Belt System
W.	050	Non-Produced Cement/Dry Fly Ash Exported via Pneumatic Conveyance to Ship
X.	051	Non-Produced Cement/Dry Fly Ash Exported via Truck to Ship

- **NOTE**: The following table (for informational purposes), shows the total combined **potential particulate matter** emissions from all emission sources operating at the above location. The total combined **potential particulate matter** emissions from the facility are below the thresholds that would require Title V permitting in accordance with Chapter 62-213, F.A.C. The **applicable allowable particulate matter** emission limitations* for baghouses associated with applicable emission units at the facility are contained in the Specific Conditions of this permit:

EMISSION SOURCE	Particulate Matter (PM) tons/year	Particulate Matter (PM10) Tons/year
E.U. 025: Clinker received by Ships		
Process Emissions	(7.25)	(3.42)
Fugitive Emissions	(10.86)	(5.14)
	18.11	8.56
EU. 026: Clinker received by Railcar	2.17	1.03
E.U. 027: Clinker received by Truck:		
Process Emissions	(3.62)	(1.72)
Paved Road Emissions	(2.90)	(0.56)
	6.52	2.28
E.U. 028: Gypsum received by Ship to Hoppers to Trucks	0.03	0.02

EMISSION SOURCE	Particulate Matter (PM) tons/year	Particulate Matter (PM10) Tons/year
E.U. 029: Gypsum/Limestone/Slag received by Trucks:		
Process Emissions	(0.01)	(0.01)
Paved Road Emissions	(0.15)	(0.03)
Unpaved Road Emissions	(0.20)	(0.06)
Gypsum Storage Piles	(0.08)	(0.04)
Limestone/Slag Storage Piles	(0.07)	(0.04)
	0.51	0.18
E.U. 030: Clinker from Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 1	2.23	1.05
E.U. 031: Clinker from Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 2	2.23	1.05
E.U. 032: Gypsum from Storage Piles to Gypsum Storage Silo:		
Fugitive Process Emissions	(0.03)	(0.01)
Unpaved Roads	(0.11)	(0.04)
Baghouse BH9 Emissions	(0.0004)	(0.0002)
	0.14	0.05
E.U. 033: Finish Mill No. 1	6.81	3.22
E.U. 034: Limestone/Slag to Gypsum Belt for Finish Mill No. 2	0.11	0.04
E.U. 035: Finish Mill No. 2	6.81	3.22
E.U. 036: Produced Cement to Cement Storage Silo Nos. 1 and 2	3.11	1.99
E.U. 037: Truck Loading of Produced Cement		
Process Emissions	(0.50)	(0.23)
Paved Road Emissions	(1.42)	(0.28)
	1.92	0.51
E.U. 038: Produced Cement Exported via Kinder Morgan System		
Process Emissions	(4.55)	(2.13)
Fugitive Emissions	(7.43)	(3.51)
	11.98	5.64
E.U. 039: Produced Cement Exported via Pneumatic Conveyance to Ship	7.78	4.97
E.U. 040: Produced Cement Exported via Trucks to Ship	3.11	1.99
E.U. 041: Wet Fly Ash and Phosphate Rock received by Ships to Clinker & Wet Fly Ash Storage Building	0.02	0.01
E.U. 042: Wet Fly Ash received by Ship to Hoppers to Trucks	0.06	0.03
E.U. 043: Trucks with Wet Fly Ash to Clinker & Wet Fly Ash Storage Building		
Process Emissions	(0.02)	(0.01)
Paved Roads	(0.72)	(0.14)

EMISSION SOURCE	Particulate Matter (PM) tons/year	Particulate Matter (PM10) Tons/year
	0.74	0.15
E.U. No. 044: Truck Loading of Clinker/Wet Fly Ash/Gypsum/Phosphate Rock for Export		
Process Emissions	(0.24)	(0.11)
Paved Road Emissions	(1.44)	(0.28)
	1.68	0.39
E.U. No. 045: Non-Produced Cement/Dry Fly Ash to Cement Storage Silo Nos. 1 and 2		
Process Emissions	(9.29)	(3.67)
Paved Road Emissions	(1.00)	(0.19)
	10.29	3.86
E.U. No. 046: Truck Loading of Non-Produced Cement/Dry Fly Ash for Export		
Process Emissions	(0.49)	(0.23)
Paved Road Emissions	(0.33)	(0.28)
	0.83	0.51
E.U. No. 047: Clinker from Clinker & Wet Fly Ash Storage Building Exported via Kinder Morgan System		
Process Emissions	(2.52)	(1.19)
Fugitive Emissions	(3.44)	(1.63)
	5.96	2.82
E.U. No. 048: Non-Produced Cement Exported via Kinder Morgan System		
Process Emissions	(1.04)	(0.50)
Fugitive Emissions	(1.72)	(0.81)
	2.76	1.31
E.U. No. 049: Clinker from Clinker Storage Silo No. 1 Exported via New Diagonal Belt System	0.92	0.43
E.U. No. 050: Non-Produced Cement Exported/Dry Fly Ash via Pneumatic Conveyance to Ship		
Non-Produced Cement Emissions	(1.80)	(1.15)
Dry Fly Ash Emissions	(9.81)	(3.44)
	11.61	4.59
E.U. No. 051: Non-Produced Cement/Dry Fly Ash Exported via Trucks to Ship		
Process Emissions	(4.65)	(1.84)
Paved Road Emissions	(1.28)	(0.24)
	5.93	2.08
TOTAL FACILITY POTENTIAL EMISSIONS: Based on the facility's possible operating scenarios, the sum of the SHADED values above represent the worst case potential emissions.	83.37	37.02

* Based on the facility's worst case operating scenario and the specific conditions of this permit, the facility's total allowable PM emissions are 19.68 lbs./hr. and 31.55 ton per any consecutive 12-month period.

NOTE: *Please reference the Permit No., Facility ID, and Emission Unit ID in all correspondence, test report submittals, applications, etc.*

Exempt Emission Units/Activities

No exempt activities were requested by the permittee to be listed in this permit.

FACILITY REGULATORY CLASSIFICATION

– The facility is not a major source of hazardous air pollutants (HAP).
– The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
– The facility is not a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
– The facility is not major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
– This facility is a synthetic non-Title V source and a synthetic non-PSD major source for the pollutant particulate matter.

PERMIT HISTORY/AFFECTED PERMITS

- Construction Permit No. 0810011-016-AC modifies and replaces Construction Permit No. 0810011-013-AC and incorporates Construction Permit Amendment No. 0810011-015-AC.
- Construction Permit No. 0810011-013-AC modified and replaced Construction Permit No. 0810011-011-AC, which modified and replaced Construction Permit No. 0810011-009-AC and Operation Permit No. 0810011-010-AF.

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection (Department), Southwest District's Air Resource Management Section. The Southwest District's mailing address and phone number is:

   Florida Department of Environmental Protection
   Southwest District Office
   Air Resource Management Section
   13051 North Telecom Parkway
   Temple Terrace, Florida 33637-0926
   Telephone: 813-632-7600

   All documents related to applications for permits to operate an emissions unit shall be submitted to the above address.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Southwest District Office's Air Resource Management Section (see above mailing address and phone number).

3. Appendices: The following Appendices are attached as part of this permit:

   a. Appendix A. Citation Formats and Glossary of Common Terms;
   b. Appendix B. General Conditions;
   c. Appendix C. Common Conditions;
   d. Appendix D. Common Testing Requirements;

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.
   [Rule 62-4.080, F.A.C.]

6. Modifications: Unless otherwise exempt by rule, the permittee shall not initiate any construction, reconstruction, or modification at the facility and shall not install/modify any pollution control device at the facility without obtaining prior authorization from the Department. Modification is defined as: Any physical change or changes in the method of operations or addition to a facility that would result in an increase in the actual emissions of any air pollutant subject to air regulations, including any not previously emitted, from any emission unit or facility.
   [Rules 62-210.200 - Definition of "Modification" and 62-210.300(1)(a), F.A.C.]

7. Annual Operating Report: On or before **April 1** of each year, the permittee shall submit a completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" (AOR) for the preceding calendar year. The report may be submitted electronically in accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be sent to the Compliance Authority.
[Rule 62-210.370(3), F.A.C.]

8. Application for Non-Title V Air Operation Permit: This permit authorizes the construction modification and construction of the permitted emissions units and initial operation to determine compliance with Department rules. A synthetic Non-Title V air operation permit is required for continued and renewed operation of the permitted emissions units. The permittee shall submit an application for a synthetic Non-Title V air operation permit to the Permitting Authority at least 90 days prior to expiration of this permit and at 180 day intervals from the effective date of this permit for those emission units that have commenced/reactivated operation until all the permitted emission units have commenced/reactivated operation. Emission units that commenced/reactivated operation within 45 days prior to an applicable 180 day submittal due date period may be included in the subsequent 180 day application submittal. To apply for the synthetic Non-Title V air operation permit, the applicant shall submit the following:

   a. the appropriate permit application form *(see current version of Rule 62-210.900(3), F.A.C. (Forms and Instructions), and/or FDEP Division of Air Resource Management website at: http://www.dep.state.fl.us/air/)*;

   b. the appropriate operation permit application fee* from Rule 62-4.050(4)(a), F.A.C.; and

   c. a copy of the most recent compliance test report(s) for the emission unit(s) included in the application, if not previously submitted;

      * Permitting Note: The following sources are considered "similar sources" for fee purposes:

         - NSPS, VE Testing, PM RACT, Baghouse(s), Material Handling/Non-Grinding: Emission Unit Nos. 025, 030, 031, 032, 036, 037, 038, 039, and 040

         - NSPS, VE Testing, PM RACT, Baghouse(s), Material Handling/Grinding: Emission Unit Nos. 033 and 035

         - NSPS, VE Testing, Baghouse(s), Material Handling/Non-Grinding: Emission Unit Nos. 026

         - NSPS, VE Testing, Material Handling/Non-Grinding: Emission Unit Nos. 027, 028, 029, and 034

         - Non-NSPS, Baghouse(s), Material Handling/Non-Grinding: Emission Unit Nos. 041, 045, 046, 047, 048, 049, 050, and 051

- Non-NSPS, Material Handling/Non-Grinding: Emission Unit Nos. 042 and 043

Note: Emission Unit No. 044 is classified as Non-NSPS, No VE Testing Required, and Material Handling/Non-Grinding.
[Rules 62-4.030, 62-4.070(3), 62-4.050, and 62-4.220, F.A.C.]

Emission Units Subject to 40 CFR 60, Subpart F (NSPS)

Subsection A. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
025	Clinker received by Ships *This emission unit replaces activities addressed in Emission Unit Nos. 004, 009, 015, 016, 017 (only incoming belt to storage building), 018, 020, 021, and 022 in permit 0810011-010-AF.*

Clinker is unloaded from ships/barges at a maximum transfer rate of 800 tons/hr. based on a daily average and 1,264,000 tons per any consecutive 12-month period using unloading devices (i.e., clamshell) and transferred to the Clinker & Wet Fly Ash Storage Building. See Emission Unit No. 041 since, the amount of phosphate rock received by ship/barges and the amount of clinker received by ship/barges shall not exceed a total of 1,264,000 tons per any consecutive 12-month period.

Clinker in the holds of a ship/barge is removed by clamshell(s) and transferred to a West Hopper and/or East Hopper. Emissions from the top of the West Hopper are controlled by two (2) BHA Pulse Jet Cartridge, Model 505-4320, baghouses identified as Baghouse BH1A (west) and Baghouse BH1B (east). Baghouses BH1A and BH1B are each rated at 15,000 acfm and 14,417 dscfm. Emissions from the top of the East Hopper are controlled by a BHA Pulse Jet Cartridge, Model 505-4322, baghouse designated as Baghouse BH2A (west) rated at 15,000 acfm and 14,417 dscfm along with a Fuller baghouse designated as Baghouse BH2B (east) rated at 12,000 acfm and 11,534 dscfm. Baghouses BH1A, BH1B, BH2A, and BH2B also serve Emission Unit Nos. 038, 041, and 048. Baghouse BH1A also serves Emission Unit Nos. 039, 047, 049, and 050. Baghouse BH1B also serves Emission Unit Nos. 040, 047, and 051. Baghouse BH2B also serves Emission Unit No. 047.

Clinker in the hoppers is transferred to common conveyor belt (Belt No. 7) that moves first under the West Hopper and then under the East Hopper. The two (2) baghouse associated with each hopper also control emissions as the material from the hoppers transfers to Belt No. 7.

The West Hopper and East Hopper are each able to travel east and west above a portion of Belt No. 7, that portion of the belt does not have 180 degree top covers to prevent unconfined emissions.

Clinker on Belt No. 7 is then transferred to Belt No. 6. Emissions are controlled by a Fuller, Model 36D510, baghouse designated as Baghouse BH15 and rated at 3,000 acfm and 2,883 dscfm.

Clinker on Belt No. 6 is then transferred to Belt No. 5. Emissions are controlled by a Fuller, Model 36D510, baghouse designated as Baghouse BH16 and rated at 3,000 acfm and 2,883 dscfm.

Clinker on Belt No. 5 is then transferred to Incline Belt No. 4. Emissions are controlled by Fuller, Model 48D510, baghouse designated as Baghouse BH17 and rated at 4,000 acfm and 3,845 dscfm.

Clinker on Incline Belt No. 4 is then transferred to Transfer Tower No. 1 where Clinker from a railcar unloading building using Belt No. 19 (further described below, see E.U. No. 026) may also be combined with the clinker on Incline Belt No. 4 as it enters Transfer Tower No. 1. The combined

clinker does not exceed 800 tons/hr. Emissions are controlled by a DCE Dalamatic, Model DLM V20/10 F5, baghouse designated as Baghouse BH4 and rated at 2,000 acfm and 1,922 dscfm. Baghouse BH4 also serves Emission Unit Nos. 026 and 041.
Clinker from Transfer Tower No. 1 is then transferred to Incline Belt No. 3. Emissions are controlled by a Mikro Pulsaire, Model 255-8-30, baghouse designated as BH5 and rated at 2,500 acfm and 2,403 dscfm. Baghouse BH5 also serves Emission Unit Nos. 026 and 041.

Clinker from Incline Belt No. 3 is transferred to Belt No. 2 inside Transfer Tower No. 2. Emissions are controlled by a Fuller, Model No. 80-23451-325, baghouse designated as BH6 and rated at 4,000 acfm and 3,845 dscfm. Baghouse BH6 also serves Emission Unit Nos. 026 and 041.

Clinker from Belt No. 2 is then transferred to Shuttle Belt No. 1 located inside and along the roof of the Clinker & Wet Fly Ash Storage Building where the shuttle belt drops the clinker onto storage piles. Emissions are controlled by a DCE Dalamatic, Model DLM V20/10 F5, baghouse designated as BH7 and rated at 2,000 acfm and 1,959 dscfm. Baghouse BH7 also serves Emission Nos. 026, 041, 044, and 047.

PERFORMANCE RESTRICTIONS

A.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

A.2. Permitted Capacity: This emission unit unloads clinker from ships/barges at a maximum rate of 1,264,000 tons per any consecutive 12-month period. The amount of phosphate rock received by ships/barges in Emission Unit No. 041 and the amount of clinker received by ships/barges shall not exceed a total of 1,264,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

A.3. Reasonable Precautions to Control Unconfined Particulate Matter: All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter. This provision is applicable to any source, including but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, and handling. Reasonable precautions shall include but are not limited to the following:

a. A tarpaulin shall be attached between the dock and the ship when the clamshells are transferring material. The tarpaulin shall be positioned below the clamshell's arc of travel such that any material spilled will be contained on the dock. The contained material shall be cleaned-up by shoveling and/or sweeping at least once during each 8-hour shift. An 8-hour shift is defined as from 11:00 p.m. to 7:00 a.m., 7:00 a.m. to 3:00 p.m., and 3:00 p.m. to 11:00 p.m.

b. Tight-lipped clamshells to prevent material leakage shall be used and the clamshells shall be fully closed prior to being lifted from a hold.

c. The accumulation of material inside and/or outside the clamshell is prohibited.

d. No air blowers shall be used in the ship's hold(s) to gather material for the final clean out of the cargo hold(s).

e. Hoppers shall be equipped with permanent or temporary wind shields on all 4 sides at all times. The wind shields shall be installed from the top of the hopper ascending upward either in a vertical direction or in an upward-and-outward direction at an angle that is no less than the acute angle between the hopper's side and the horizontal.

f. All wind shields shall be no less than 4 feet high from the top of the wind shield to the top of the associated hopper side as measured in the vertical.

g. When transferring material from clamshells into hoppers:

   1. The free fall distance of material shall not exceed five (5) feet.
   2. The clamshell shall not open until the top of clamshell is below the top of the hopper's wind shields.

h. Use tarps around the bottom of the hoppers to cover Belt No. 7, as best as practical.

i. Enclose, to best extent possible for safety and maintenance considerations, the bottom "tail" pulley in the Transfer Tower No. 1.

j. Use smooth roller type belt cleaning pulleys to lessen belt vibration in Transfer Tower No. 1.

[Rules 62-4.070(3) and 62-296.320(4)(c), F.A.C.]

A.4. Operational Limitation: The West and East Hoppers shall each be clearly marked/labeled in order to distinguish the West Hopper from the East Hopper.
[Rule 62-4.070(3), F.A.C.]

EMISSIONS STANDARDS

A.5. Particulate Matter (PM) and Visible Emissions Limitations: The following emission points for this emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below when transferring clinker:

Emission Point No.	Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Max. Opacity %
1	Ship's/ Barge's Hold(s) to Clamshell(s): Emissions from hold(s)	n/a	n/a	<10**
2	Clamshells to West Hopper: Emissions from Baghouse BH1A (west)	0.46*	0.18*	5***
3	Clamshells to West Hopper: Emissions from Baghouse BH1B (east)	0.46*	0.18*	5***
4	Clamshells to West Hopper: Emissions from top of hopper	n/a	n/a	<10**
5	Clamshells to East Hopper: Emissions from Baghouse BH2A (west)	0.46*	0.18*	5***
6	Clamshells to East Hopper: Emissions from Baghouse BH2B (east)	0.46*	0.18*	5***
7	Clamshells to East Hopper: Emissions from top of hopper	n/a	n/a	<10**
8	Belt No. 7 to Belt No. 6: Emissions from Baghouse BH15	0.92*	0.72*	5***
9	Belt No. 6 to Belt No. 5: Emissions from Baghouse BH16	0.92*	0.72*	5***
10	Belt No. 5 to Incline Belt No. 4: Emissions from Baghouse BH17	0.92*	0.72*	5***
11	Incline Belt No. 4 & Clinker from railcar unloading building to Transfer Tower No. 1: Emissions from Baghouse BH4	0.92*	0.72*	5***
12	Transfer Tower No. 1 to Incline Belt No. 3: Emissions from Baghouse BH5	0.92*	0.72*	5***
13	Incline Belt No. 3 to Belt No. 2: Emissions from Baghouse BH6	0.92*	0.72*	5***
14	Belt No. 2 to Shuttle Belt No. 1 to Storage Piles inside Clinker & Wet Fly Ash Storage Building: Emissions from Baghouse BH7	1.84*	1.44*	5***

* Emission limitations for the facility to be exempt from the Reasonable Available Control Technology (RACT) Particulate Matter requirements, pursuant to Rule 62-296.700(2)(b), F.A.C. Emission limitations are based on material throughput, emission factors, and baghouse control efficiencies specified in the permittee's application submitted on September 23, 2009.

** Opacity limitation pursuant to 40 CFR 60.62(c).

*** Although these emission points controlled by a baghouse are also limited to an opacity limitation of <10% pursuant to 40 CFR 60.62(c), the Department in accordance with Rule 62-297.620(4), F.A.C., establishes a stricter maximum visible emission limitation of 5% opacity in lieu of particulate matter emission compliance testing.

TESTING REQUIREMENTS

A.6. Visible Emission Compliance Tests Upon Reactivation: All the emission points* associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted during the unloading of the first ship/barge that reactivates the emission unit. {Permitting Note: Since some of these existing emission points have not previously demonstrated compliance, this requirement is more stringent than the testing requirements of 40 CFR 60.8.}

* Since ships/barges may have more than one (1) hold, visible emission testing of a single hold when it is actually transferring clinker to the hopper(s) shall be considered acceptable provided the test was conducted when the highest opacity emissions can reasonably be expected to occur.

[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

A.7. Visible Emission Compliance Tests After the Reactivation Tests: All the emission points* associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit.

* Since ships/barges may have more than one (1) hold, visible emission testing of a single hold when it is actually transferring clinker to the hopper(s) shall be considered acceptable provided the test was conducted when the highest opacity emissions can reasonably be expected to occur.

[Rules 62-4.070(3), 62-210.310(4)(a)2., and 62-297.310(7)(a)4., F.A.C.]

A.8. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

A.9. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
1, 2, 4	Traverse Points, Velocity and Flow Rate, and Moisture Content (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
5	Determination of Particulate Matter Emissions from Stationary Sources (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

A.10. Test Notifications: The permittee shall comply with the following:

a. For each reactivation visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the reactivation test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

A.11. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. A.12. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

A.12. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring clinker to the West and East Hoppers (do not double count).

c. Most recent consecutive 12-month total hours of transferring clinker to the West and East Hoppers.

d. Amount of clinker transferred to the West and East Hoppers in tons.

e. Most recent consecutive 12-month total amount of clinker transferred to the West and East Hoppers in tons.

f. Most recent consecutive 12-month total amount of clinker transferred to the West and East Hoppers plus the most recent consecutive 12-month total amount of phosphate rock received by Emission Unit No. 041 in tons. (also see Specific Condition No. O.11.q.)

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection B. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
026	Clinker received by Railcar

Clinker is received by railcar in a Kinder Morgan owned railcar unloading building at a maximum transfer rate of 300 tons/hr. based on a daily average and 1,264,000 tons per any consecutive 12-month period. The clinker in the railcars is first transferred into a dump hopper that transfers the clinker to Kinder Morgan Belt No. 6.

The clinker on Kinder Morgan Belt No. 6 in then transferred to Kinder Morgan Belt No. 19 in an enclosed transfer tower.

The clinker on Kinder Morgan Belt No. 19 may then join the clinker on Incline Belt No. 4 associated with Emission Unit 025 (see above) as it enters Transfer Tower No. 1. The combined clinker does not exceed 800 tons/hr. Emissions are controlled by a DCE Dalamatic, Model DLM V20/10 F5, baghouse designated as Baghouse BH4 and rated at 2,000 acfm and 1,922 dscfm. This bahouse also serves Emission Unit Nos. 025 and 041.

Clinker from Transfer Tower No. 1 is then transferred to Incline Belt No. 3. Emissions are controlled by a Mikro Pulsaire, Model 255-8-30, baghouse designated as BH5 and rated at 2,500 acfm and 2,403 dscfm. This baghouse also serves Emission Unit Nos. 025 and 041.

Clinker from Incline Belt No. 3 is transferred to Belt No. 2 inside Transfer Tower No. 2. Emissions are controlled by a Fuller, Model No. 80-23451-325, baghouse designated as BH6 and rated at 4,000 acfm and 3,845 dscfm. This baghouse also serves Emission Unit Nos. 025 and 041.

Clinker from Belt No. 2 is then transferred to Shuttle Belt No. 1 located inside and along the roof of the Clinker & Wet Fly Ash Storage Building where the shuttle belt drops the clinker onto storage piles. Emissions are controlled by a DCE Dalamatic, Model DLM V20/10 F5, baghouse designated as BH7 and rated at 2,000 acfm and 1,959 dscfm. This baghouse also serves Emission Unit Nos. 025, 041, 044, and 047.

Emissions from unloading the railcars in the railcar unloading building are controlled by three (3) baghouses described as follows:

- Baghouse KM-1 located on the southeast side of the building is rated at 5,352 acfm and 5,144 dscfm.
- Baghouse KM-2 located on the northeast side of the building is rated at 3,104 acfm and 2,983 dscfm.
- Baghouse KM-3 located on the northwest side of the building is rated at 4,037 acfm and 3,880 dscfm.

PERFORMANCE RESTRICTIONS

B.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

B.2. Permitted Capacity: This emission unit unloads clinker from railcars at a maximum rate of 1,264,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

B.3. Reasonable Precautions to Control Unconfined Particulate Matter: All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter. This provision is applicable to any source, including but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, and handling. Reasonable precautions shall include but are not limited to the following:

a. When unloading railcars, the railcar unloading building shall have draping (plastic or rubber strips) on the east/west entrance and exit. The entrance and exit shall be completely draped (top to bottom and side to side) when no railcar is blocking the

entrance or exit. If a railcar is blocking an entrance or exit the draping should cover all open areas between the building and the railcar.

[Rules 62-4.070(3) and 62-296.320(4)(c), F.A.C.]

EMISSIONS STANDARDS

B.4. Visible Emissions Limitations: The following emission points for this emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below when transferring clinker:

Emission Point No.	Brief Description	Maximum Opacity %
1	Railcar Unloading Building: Emissions from Baghouse KM-1 (southeast)	<10
2	Railcar Unloading Building: Emissions from Baghouse KM-2 (northeast)	<10
3	Railcar Unloading Building: Emissions from Baghouse KM-3 (northwest)	<10
4	Incline Belt No. 4 & Clinker from railcar unloading building to Transfer Tower No. 1: Emissions from Baghouse BH4	<10*
5	Transfer Tower No. 1 to Incline Belt No. 3: Emissions from Baghouse BH5	<10*
6	Incline Belt No. 3 to Belt No. 2: Emissions from Baghouse BH6	<10*
7	Belt No. 2 to Shuttle Belt No. 1 to Storage Piles inside Clinker & Wet Fly Ash Storage Building: Emissions from Baghouse BH7	<10*

* These limitations are applicable when Emission Unit No. 025 is not simultaneously operating.

Permitting Note: These emission points are not subject to PM RACT because they are new permitted sources.
[Rule 62-204.800(8), F.A.C.; 40 CFR 60.62(c)]

TESTING REQUIREMENTS

B.5. Initial Visible Emission Compliance Tests: All* the emission points associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted during the first 24-hour period of unloading a railcar after the effective date of this permit.

* Emission Point Nos. 4, 5, 6, and 7 are not required to be tested if they have been previously tested and demonstrate compliance for visible emission as part of Emission Unit No. 025 after the effective date of this permit and the tests were conducted within the most recent 12-month period.

[Rules 62-4.070(3) and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

B.6. Visible Emission Compliance Tests After the Initial Tests: All* the emission points associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit.

* Emission Point Nos. 4, 5, 6, and 7 are not required to be tested if they have been previously tested and demonstrate compliance for visible emissions as part of Emission Unit No. 025's current annual compliance test.

[Rules 62-4.070(3) and 62-297.310(7)(a)4., F.A.C.]

B.7. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

B.8. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method is described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method may be used unless prior written approval is received from the Department.
[Rule 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

B.9. Test Notifications: The permittee shall comply with the following:

a. For each initial visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the initial test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal

compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

B.10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. B.11. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

B.11. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring clinker.

c. Most recent consecutive 12-month total hours of transferring clinker.

d. Amount of clinker transferred in tons.

e. Most recent consecutive 12-month total amount of clinker transferred in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Emission Units Subject to 40 CFR 60, Subpart F (NSPS)

Subsection C. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
027	Clinker received by Truck

Clinker is received by truck and unloaded inside the Clinker & Wet Fly Ash Storage Building. Clinker is unloaded from trucks at a maximum transfer rate of 500 tons/hr. based on a daily average and 1,264,000 tons per any consecutive 12-month period.

PERFORMANCE RESTRICTIONS

C.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

C.2. Permitted Capacity: This emission unit unloads clinker trucks at a maximum rate of 1,264,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

EMISSIONS STANDARDS

C.3. Visible Emissions Limitation: Fugitive emissions from the Clinker & Wet Fly Ash Storage Building that becomes airborne during the unloading of clinker from trucks shall not be equal to or exceed 10% opacity.
[Rule 62-204.800(8), F.A.C.; 40 CFR 60.62(c)]

TESTING REQUIREMENTS

C.4. Initial Visible Emission Compliance Test: This emission unit shall be tested to demonstrate compliance with the visible emissions limitation. The test shall be conducted during the first 24-hour period of unloading a truck after the effective date of this permit.
[Rules 62-4.070(3) and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

C.5. Visible Emission Compliance Tests After the Initial Test: This emission unit shall be tested to demonstrate compliance with the visible emissions limitation. The test shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit.
[Rules 62-4.070(3) and 62-297.310(7)(a)4., F.A.C.]

C.6. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. [Rule 62-297.310, F.A.C.]

C.7. Test Method(s): The required test shall be performed where the highest opacity emissions are expected to occur from the Clinker & Wet Fly Ash Storage Building and in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method is described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(4)(a)2., F.A.C.; and Appendix A of 40 CFR 60]

C.8. Test Notifications: The permittee shall comply with the following:

a. The initial visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the initial test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

C.9. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual unloading rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. C.10. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

C.10. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of unloading clinker.

c. Most recent consecutive 12-month total hours of unloading clinker.

d. Amount of clinker unloaded in tons.

e. Most recent consecutive 12-month total amount of clinker unloaded in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection D. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
028	Gypsum received by Ship to Hoppers to Trucks *This emission unit replaces activities addressed in Emission Unit Nos. 004, 009,020, 021, and 022 in permit 0810011-010-AF.*

Gypsum is unloaded from ships/barges at a maximum transfer rate of 500 tons/hr. based on a daily average and 86,400 tons per any consecutive 12-month period using unloading devices (i.e., clamshell).

Gypsum in the holds of a ship/barge is removed by clamshell(s) and transferred to a West Hopper and/or East Hopper.

Gypsum in each hopper is then transferred through each hopper's own totally enclosed chute to a truck. Each hopper's chute can only load one (1) truck at a time. Two (2) trucks may be loaded simultaneously.

Emissions from this emission unit are not controlled.

PERFORMANCE RESTRICTIONS

D.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

D.2. Permitted Capacity: This emission unit unloads gypsum from ships/barges at a maximum rate of 86,400 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

D.3. Reasonable Precautions to Control Unconfined Particulate Matter: All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter. This provision is applicable to any source, including but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, and handling. Reasonable precautions shall include but are not limited to the following:

a. A tarpaulin shall be attached between the dock and the ship when the clamshells are transferring material. The tarpaulin shall be positioned below the clamshell's arc of travel such that any material spilled will be contained on the dock. The contained material shall be cleaned-up by shoveling and/or sweeping at least once during each 8-hour shift. An 8-hour shift is defined as from 11:00 p.m. to 7:00 a.m., 7:00 a.m. to 3:00 p.m., and 3:00 p.m. to 11:00 p.m.

b. Tight-lipped clamshells to prevent material leakage shall be used and the clamshells shall be fully closed prior to being lifted from a hold.

c. The accumulation of material inside and/or outside the clamshell is prohibited.

d. No air blowers shall be used in the ship's hold(s) to gather material for the final clean out of the cargo hold(s).

e. Hoppers shall be equipped with permanent or temporary wind shields on all 4 sides at all times. The wind shields shall be installed from the top of the hopper ascending upward either in a vertical direction or in an upward-and-outward direction at an angle that is no less than the acute angle between the hopper's side and the horizontal.

f. All wind shields shall be no less than 4 feet high from the top of the wind shield to the top of the associated hopper side as measured in the vertical.

g. When transferring material from clamshells into hoppers:

1. The free fall distance of material shall not exceed five (5) feet.
2. The clamshell shall not open until the top of clamshell is below the top of the hopper's wind shields.

[Rules 62-4.070(3) and 62-296.320(4)(c), F.A.C.]

D.4. Operational Limitation: The West and East Hoppers shall each be clearly marked/labeled in order to distinguish the West Hopper from the East Hopper.
[Rule 62-4.070(3), F.A.C.]

EMISSIONS STANDARDS

D.5. Visible Emission Limitations: The following emission points for this emission unit shall not exceed the maximum allowable visible emission limitation as shown in the table below when transferring gypsum:

Emission Point No.	Brief Description	Maximum Opacity %
1	Ship's/Barge's Hold(s) to Clamshell(s): Emissions from hold(s)	<10
2	Clamshells to West Hopper: Emissions from top of hopper	<10
3	Clamshells to East Hopper: Emissions from top of hopper	<10
4	West Hopper's Chute to Truck: Emissions from top of truck	<10
5	East Hopper's Chute to Truck: Emissions from top of truck	<10

[Rule 62-204.800(8), F.A.C.; 40 CFR 60.62(c)]

TESTING REQUIREMENTS

D.6. Visible Emission Compliance Tests Upon Reactivation: All the emission points associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted during the unloading of the first ship/barge that reactivates the emission unit.

* Since ships/barges may have more than one (1) hold, visible emission testing of a single hold when it is actually transferring gypsum to the hopper(s) shall be considered acceptable provided the test was conducted when the highest opacity emissions can reasonably be expected to occur.

[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

D.7. Visible Emission Compliance Tests After the Reactivation Tests: All the emission points* associated with this emission unit shall be tested to demonstrate compliance with the visible emission limitations. The tests shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit.

* Since ships/barges may have more than one (1) hold, visible emission testing of a single hold when it is actually transferring gypsum to the hopper(s) shall be considered acceptable provided the test was conducted when the highest opacity emissions can reasonably be expected to occur.

[Rules 62-4.070(3), 62-210.310(4)(a)2., and 62-297.310(7)(a)4., F.A.C.]

D.8. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

D.9. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rule 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

D.10. Test Notifications: The permittee shall comply with the following:

a. For each reactivation visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the reactivation test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

D.11. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.
b. A copy of the monthly log as required in Specific Condition No. D.12. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

D.12. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring gypsum to the West and East Hoppers (do not double count).

c. Most recent consecutive 12-month total hours of transferring gypsum to the West and East Hoppers.

d. Amount of gypsum transferred to the West and East Hoppers in tons.

e Most recent consecutive 12-month total amount of gypsum transferred to the West and East Hoppers in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection E. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
029	Gypsum/Limestone/Slag received by Trucks *This emission unit replaces activities addressed in Emission Unit Nos. 004, 009, 020, 021, 022, and 023 in permit 0810011-010-AF.*

Gypsum is received by trucks associated with Emission Unit No. 028 and/or from off-site. The trucks unload gypsum to outside storage piles at a maximum unloading rate of 500 tons/hr. based on a daily average and 86,400 tons per any consecutive 12-month period.

Limestone/Slag is received by trucks from off-site. The trucks unload the Limestone/Slag to outside storage piles at a maximum unloading rate of 500 tons/hr. based on a daily average and 22,000 tons per any consecutive 12-month period.

PERFORMANCE RESTRICTIONS

E.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

E.2. Permitted Capacity: This emission unit unloads:

a. Gypsum from trucks to storage piles at a maximum rate of 86,400 tons per any consecutive 12-month period.

b. Limestone/slag from trucks to storage piles at a maximum rate of 22,000 tons per any consecutive 12-month period.

[Rule 62-210.200 (PTE), F.A.C.]

EMISSIONS STANDARDS

E.3. Visible Emissions Limitation: Fugitive emissions from the truck unloading activities shall not be equal to or exceed 10% opacity.
[Rule 62-204.800(8), F.A.C.; 40 CFR 60.62(c)]

TESTING REQUIREMENTS

E.4. Initial Visible Emission Compliance Test: This emission unit shall be tested when unloading a truck that has gypsum, limestone, or slag to demonstrate compliance with the visible emissions limitation. The test shall be conducted during the first 24-hour period of unloading a truck after the effective date of this permit.
[Rules 62-4.070(3) and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

E.5. Visible Emission Compliance Tests After the Initial Test: This emission unit shall be tested when unloading a truck that has gypsum, limestone, or slag to demonstrate compliance with the visible emissions limitation. The test shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit.
[Rules 62-4.070(3) and 62-297.310(7)(a)4., F.A.C.]

E.6. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

E.7. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method is described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method may be used unless prior written approval is received from the Department.
[Rule 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

E.8. Test Notifications: The permittee shall comply with the following:

a. The initial visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For visible emission test after the initial test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

E.9. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual unloading rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. E.10. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

E.10. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month for **each** gypsum and limestone/slag)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of unloading material (gypsum or limestone/slag, as appropriate).

c. Most recent consecutive 12-month total hours of unloading (gypsum or limestone/slag, as appropriate).

d. Amount of material (gypsum or limestone/slag, as appropriate) unloaded in tons.

e. Most recent consecutive 12-month total amount of material gypsum unloaded in tons.

f. Most recent consecutive 12-month total amount of limestone/slag unloaded in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection F. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
030	Clinker from Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 1 *This emission unit replaces activities addressed in Emission Unit Nos. 001 and 017 in permit 0810011-010-AF.*
031	Clinker from the Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 2 *This emission unit replaces activities addressed in Emission Unit Nos. 001 and 011 in permit 0810011-010-AF.*

Clinker in the Clinker & Wet Fly Ash Storage Building is transferred to either Clinker Storage Silo No. 1 or Clinker Storage Silo No. 2 at a maximum rate of 300 tons/hr. based on a daily average. Each silo receives a maximum of 432,000 tons of clinker per any consecutive 12-month period. The silos can not receive clinker simultaneously.

Clinker from storage piles in the Clinker & Wet Fly Ash Storage Building is transferred by front-end loader to a reclaim hopper. Emissions from loading the hopper are considered fugitive emissions. The clinker in the reclaim hopper is then transferred to a pit belt and then the pit belt transfers the clinker to an Incline Belt. Emissions from these transfer points are controlled by a common DCE Dalamatic, Model DLM V30/15, baghouse designated as BH8 and rated at 3,000 acfm and 2,938 dscfm.

Incline Belt to load Clinker Storage Silo No. 1: Clinker on the Incline Belt to be loaded into Clinker Silo Storage No. 1 is then transferred to a common Shuttle Belt, which is also used to load a Gypsum Silo. The common Shuttle Belt then transfers the clinker to Clinker Storage Silo No. 1. Emissions from these two transfer points are controlled by a common Fuller Draco Plenum Pulsaire, Model 24-2-500, baghouse designated as BH9 and rated at 3,179 acfm and 3,000 dscfm. Note, Baghouse BH9 serves Emission Unit Nos. 030, 031, 032, 033, and 049.

Incline Belt to load Clinker Storage Silo No. 2: Clinker on the Incline Belt to be loaded into Clinker Storage Silo No. 2 is then transferred to Clinker Belt No. 2. Emissions from this transfer point are

controlled by a Fuller Draco Plenum Pulsaire, Model 24-2-500, baghouse designated as BH9 rated at 3,179 acfm and 3,000 dscfm. Note, Baghouse BH9 serves Emission Unit Nos. 030, 031, 032, 033, and 049. Clinker on the Clinker Belt No. 2 is then transferred to Clinker Storage Silo No. 2. Emissions from this transfer point are controlled by a Mikropul Pulsaire, Model 845-199-12, baghouse designated as BH 10 and rated at 4,588 acfm and 4,330 dscfm.

PERFORMANCE RESTRICTIONS

F.1. Federal Regulatory Requirements: These emission units are subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

F.2. Permitted Capacity: Clinker Storage Silo No. 1 and Clinker Storage Silo No. 2 each receive clinker at a maximum rate of 432,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

F.3. Operational Limitation: Clinker Storage Silo No. 1 and Clinker Storage Silo No. 2 can not receive clinker simultaneously.
[Rule 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

F.4. Emission Unit No. 030's Particulate Matter (PM) and Visible Emissions Limitations: The following emission points for this emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below when transferring clinker:

Emission Point No.	Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Max. Opacity %
1	Storage Pile(s) to Front-end loader to Reclaim Hopper: Emissions from Clinker & Wet Fly Ash Storage Building	n/a	n/a	<10**
2	Reclaim Hopper to Pit Belt and Pit Belt to Incline Belt: Emissions from Baghouse BH8	0.68*	0.5*	5***
3	Incline Belt to common Shuttle Belt and common Shuttle Belt to Clinker Storage Silo No. 1: Emissions from Baghouse BH9	0.68*	0.5*	5***

* Emission limitations for the facility to be exempt from the Reasonable Available Control Technology (RACT) Particulate Matter requirements, pursuant to Rule 62-296.700(2)(b), F.A.C. Emission limitations are based on material throughput, emission factors, and baghouse control efficiencies specified in the permittee's application submitted on September 23, 2009.

** Opacity limitation pursuant to 40 CFR 60.62(c).

*** Although these emission points controlled by a baghouse are also limited to an opacity limitation of <10% pursuant to 40 CFR 60.62(c), the Department in accordance with Rule 62-297.620(4), F.A.C. establishes a stricter maximum visible emission limitation of 5% opacity in lieu of particulate matter emission compliance testing.

F.5. Emission Unit No. 031's Particulate Matter (PM) and Visible Emissions Limitations: The following emission points for this emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below when transferring clinker:

Emission Point No.	Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Max. Opacity %
1	Storage Pile(s) to Front-end loader to Reclaim Hopper: Emissions from Clinker & Wet Fly Ash Storage Building	n/a	n/a	<10**
2	Reclaim Hopper to Pit Belt and Pit Belt to Incline Belt: Emissions from Baghouse BH8	0.68*	0.5*	5***
3	Incline Belt to Clinker Belt No. 2: Emissions from Baghouse BH9	0.34*	0.25*	5***
4	Clinker Belt No. 2 to Clinker Storage Silo No. 2: Emissions from Baghouse BH10	0.34*	0.25*	5***

* Emission limitations for the facility to be exempt from the Reasonable Available Control Technology (RACT) Particulate Matter requirements, pursuant to Rule 62-296.700(2)(b), F.A.C. Emission limitations are based on material throughput, emission factors, and baghouse control efficiencies specified in the permittee's application submitted on September 23, 2009.

** Opacity limitation pursuant to 40 CFR 60.62(c).

*** Although these emission points controlled by a baghouse are also limited to an opacity limitation of <10% pursuant to 40 CFR 60.62(c), the Department in accordance with Rule 62-297.620(4), F.A.C. establishes a stricter maximum visible emission limitation of 5% opacity in lieu of particulate matter emission compliance testing.

TESTING REQUIREMENTS

F.6. Visible Emission Compliance Tests Upon Reactivation: All* the emission points associated with each emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted within 60 days of the date the emission unit has been reactivated.

* Since the Clinker & Wet Fly Ash Building, Baghouse BH8, and Baghoue BH9 are used for both Emission Unit No. 030 and Emission Unit No. 031, a compliance test conducted within 90-100% of 300 tons/hr. and demonstrates compliance for one of the emissions units shall be considered demonstrating compliance for the other emission unit.

[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

F.7. Visible Emission Compliance Tests After the Reactivation Tests: All* the emission points associated with each emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for these emission units.

* Since the Clinker & Wet Fly Ash Building, Baghouse BH8, and Baghoue BH9 are used for both Emission Unit No. 030 and Emission Unit No. 031, a compliance test conducted within 90-100% of 300 tons/hr. and demonstrates compliance for one of the emissions units shall be considered demonstrating compliance for the other emission unit.

[Rules 62-4.070(3), 62-210.310(4)(a)2., and 62-297.310(7)(a)4., F.A.C.]

F.8. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

F.9. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
1, 2, 4	Traverse Points, Velocity and Flow Rate, and Moisture Content (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
5	Determination of Particulate Matter Emissions from Stationary Sources (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

F.10. Test Notifications: The permittee shall comply with the following:

a. For each reactivation visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the reactivation test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

F.11. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. F.12. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

F.12. Recordkeeping Requirements: The permittee shall maintain the following records for each emission unit:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No. (030 or 031), Date (month/day/year)

b. Total hours of transferring clinker.

c. Most recent consecutive 12-month total hours of transferring clinker.

d. Amount of clinker transferred in tons.

e. Most recent consecutive 12-month total amount of clinker transferred in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection G. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
032	Gypsum from Storage Piles to Gypsum Storage Silo *This emission unit replaces activities addressed in Emission Unit No. 001 in permit 0810011-010-AF.*

Gypsum is transferred to a Gypsum Storage Silo at a maximum rate of 300 tons/hr. based on a daily average and 86,400 tons per any consecutive 12-month period. Gypsum from outside storage piles is transferred by front-end loaders to a gypsum hopper. The gypsum hopper then transfers the gypsum to a gypsum loading belt, which then transfers the gypsum to an Incline Belt. The Incline Belt also serves Emission Unit Nos. 030 and 031. Emissions from these activities are uncontrolled and considered fugitive emissions.

Gypsum on the Incline Belt is then transferred to the common Shuttle Belt, which also serves Emission Unit No. 030. The common Shuttle Belt then transfers the gypsum to the Gypsum Storage Silo. Emissions from these two transfer points are controlled by a Fuller Draco Plenum Pulsaire, Model 24-2-500, baghouse designated as BH9 and rated at 3,179 acfm and 3,000 dscfm. Note, Baghouse BH9 serves Emission Unit Nos. 030, 031, 032,033, and 049.

PERFORMANCE RESTRICTIONS

G.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

G.2. Permitted Capacity: The Gypsum Storage Silo receives gypsum at a maximum rate of 86,400 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

EMISSIONS STANDARDS

G.3. Particulate Matter (PM) and Visible Emissions Limitations: The following emission points for this emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below when transferring gypsum:

Emission Point No.	Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Max. Opacity %
1	Storage Pile(s) to Front-end loader	n/a	n/a	<10**
2	Front-end loader to Gypsum Loading Belt	n/a	n/a	<10**
3	Gypsum Loading Belt to Incline Belt	n/a	n/a	<10**
4	Incline Belt to common Shuttle Belt to Gypsum Storage Silo: Emissions from Baghouse BH9	0.17*	0.04*	5***

* Emission limitations for the facility to be exempt from the Reasonable Available Control Technology (RACT) Particulate Matter requirements, pursuant to Rule 62-296.700(2)(b), F.A.C. Emission limitations are based on material throughput, emission factors, and baghouse control efficiencies specified in the permittee's application submitted on September 23, 2009.

** Opacity limitation pursuant to 40 CFR 60.62(c).

*** Although this emission point controlled by a baghouse is also limited to an opacity limitation of <10% pursuant to 40 CFR 60.62(c), the Department in accordance with Rule 62-297.620(4), F.A.C. establishes a stricter maximum visible emission limitation of 5% opacity in lieu of particulate matter emission compliance testing.

TESTING REQUIREMENTS

G.4. Visible Emission Compliance Tests Upon Reactivation: All* the emission points associated with the emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted within 60 days of the date the emission unit has been reactivated.

* Since Baghouse BH9 is also used to control emissions associated with Emission Unit Nos. 030 and 031, a compliance test conducted within 90-100% of 300 tons/hr. for Baghouse BH9 associated with either Emission Unit Nos. 030 and 031 that demonstrates compliance shall be considered demonstrating compliance.

[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

G.5. Visible Emission Compliance Tests After the Reactivation Tests: All* the emission points associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit.

* Since Baghouse BH9 is also used to control emissions associated with Emission Unit Nos. 030 and 031, a compliance test conducted within 90-100% of 300 tons/hr. for Baghouse BH9 associated with either Emission Unit Nos. 030 and 031 that demonstrates compliance shall be considered demonstrating compliance.

[Rules 62-4.070(3), 62-210.310(4)(a)2., and 62-297.310(7)(a)4., F.A.C.]

G.6. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

G.7. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
1, 2, 4	Traverse Points, Velocity and Flow Rate, and Moisture Content (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
5	Determination of Particulate Matter Emissions from Stationary Sources (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

G.8. Test Notifications: The permittee shall comply with the following:

a. For each reactivation visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the reactivation test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test

contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

G.9. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. G.10. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

G.10. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring gypsum.

c. Most recent consecutive 12-month total hours of transferring gypsum.

d. Amount of gypsum transferred in tons.

e. Most recent consecutive 12-month total amount of gypsum transferred in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Emission Units Subject to 40 CFR 60, Subpart F (NSPS)

Subsection H. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
033	Finish Mill No. 1 *This emission unit replaces activities addressed in Emission Unit No. 002 in permit 0810011-010-AF.*

Finish Mill No. 1 produces cement (produced cement) at a maximum rate of 55 tons/hour based on a daily average and 432,000 tons per any consecutive 12-month period.

Clinker Storage Silo No. 1 discharges clinker onto its own enclosed feeder belt that transfers the clinker to Finish Mill No. 1's Feed Belt. Gypsum Storage Silo discharges gypsum onto its own feeder belt that may simultaneously transfer the gypsum to Finish Mill No. 1's Feed Belt or to a Gypsum Belt for Finish Mill No. 2's Feed Belt. All the transfers of material occur in an enclosure where the emissions are controlled (except where the gypsum will go to Finish Mill No. 2) by a Fuller Draco Plenum Pulsaire, Model 24-2-500, baghouse designated as BH9 and rated at 3,179 acfm and 3,000 dscfm. Note, Baghouse BH9 serves Emission Unit Nos. 030, 031, 032, 033, and 049.

The clinker and/or gypsum on Finish Mill No. 1's Feed Belt, which typically consists of a blend of 90% clinker and 10% gypsum, are transferred to Finish Mill No. 1. Product from Finish Mill No. 1 is removed via air slide/elevator to a separator where cement is classified by size. The larger cement particles are returned to Finish Mill No. 1 for further grinding and the smaller cement particles are transported via an air slide to a cement cooler. From the cement cooler, product enters the No. 1 Separator where it again is separated by size. The larger particles are returned to Finish Mill No. 1 for further grinding and the finished cement is pneumatically transferred to Cement Storage Silo Nos. 1 and/or 2 using either FK Pump No. 1 or FK Pump No. 2. Emissions from this process (excluding FK Pump No. 2 and Cement Storage Silo Nos. 1 and 2) are controlled by a Fuller Draco Plenum Pulse, Model 48-5-2500, baghouse designated as BH12 and rated at 11,968 acfm and 9,479 dscfm. Emissions from FK Pump No. 2 are controlled by a Mikro Pulsaire, Model 320S-8TR-20, baghouse designated as BH11 and rated at 17,470 acfm and 13,300 dscfm. Note, Baghouse BH11 also serves Emission Unit Nos. 035 and 045.

PERFORMANCE RESTRICTIONS

H.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

H.2. Permitted Capacity: Finish Mill No. 1 is allowed to produce cement (produced cement) at a maximum rate of 432,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

H.3. Operational Limitation: FK Pump Nos. 1 and 2 can not simultaneously transfer produced cement from Finish Mill No. 1.
[Rule 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

H.4. Particulate Matter (PM) and Visible Emissions Limitations: The following emission points for this emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below when producing "produced cement":

Emission Point No.	Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Maximum Opacity %
1	Emissions from Baghouse BH9	0.12*	0.5*	5**
2	Emissions from Baghouse BH11	0.06*	0.25*	5**
3	Emissions from Baghouse BH12	0.48*	6.31*	5**

* Emission limitations for the facility to be exempt from the Reasonable Available Control Technology (RACT) Particulate Matter requirements, pursuant to Rule 62-296.700(2)(b), F.A.C. Emission limitations are based on material throughput, emission factors, and baghouse control efficiencies specified in the permittee's application submitted on September 23, 2009.

** Although this emission point controlled by a baghouse is also limited to an opacity limitation of <10% pursuant to 40 CFR 60.62(c), the Department in accordance with Rule 62-297.620(4), F.A.C. establishes a stricter maximum visible emission limitation of 5% opacity in lieu of particulate matter emission compliance testing.

TESTING REQUIREMENTS

H.5. Visible Emission Compliance Tests Upon Reactivation: All the emission points associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted within 60 days of the date the emission unit has been reactivated.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

H.6. Visible Emission Compliance Tests After the Reactivation Tests: All the emission points associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit.
[Rules 62-4.070(3), 62-210.310(4)(a)2., and 62-297.310(7)(a)4., F.A.C.]

H.7. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

H.8. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
1, 2, 4	Traverse Points, Velocity and Flow Rate, and Moisture Content (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
5	Determination of Particulate Matter Emissions from Stationary Sources (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

H.9. Test Notifications: The permittee shall comply with the following:

a. For each reactivation visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the reactivation test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

H.10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual production rate of produced cement in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. H.11. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

H.11. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of producing cement.

c. Most recent consecutive 12-month total hours of producing cement.

d. Amount of produced cement in tons.

e. Most recent consecutive 12-month total amount of produced cement in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection I. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
034	Limestone/Slag to Gypsum Belt for Finish Mill No. 2 *This emission unit replaces activities addressed in Emission Unit No. 023 in permit 0810011-010-AF*
035	Finish Mill No. 2 *This emission unit replaces activities addressed in Emission Unit Nos. 012 and 023 in permit 0810011-010-AF.*

Emission Unit No. 034: Limestone/Slag in storage piles is transferred by front-end loader to a Limestone/Slag Hopper at a maximum rate of 5 tons/hr. based on a daily average and 22,000 tons per any consecutive 12-month period. The Limestone/Slag Hopper then transfers the limestone/slag to a Limestone/Slag Belt. The Limestone/Slag Belt then transfers the limestone/slag to a Gypsum Belt. The emissions from these activities are considered fugitive emissions.

Emission Unit No. 035: Finish Mill No. 2 produces cement (produced cement) at a maximum rate of 51 tons/hour based on a daily average and 432,000 tons per any consecutive 12-month period.

The Gypsum Storage Silo discharges gypsum onto its own feeder belt that may simultaneously transfer the gypsum to Finish Mill No. 1's Feed Belt or to the Gypsum Belt for Finish Mill No. 2's Feed Belt. Clinker Storage Silo No. 2 discharges clinker onto its own enclosed feeder belt that transfers the clinker to Finish Mill No. 2's Feed Belt. All the transfers of material occur in an enclosure where the emissions are controlled (except where the gypsum will go to Finish Mill No.1) by a Mikropul Pulsaire, Model845-199-12, baghouse designated as BH10 and rated at 4,588 acfm and 4,330 dscfm. Note, Baghouse BH10 also serves Emission Unit No. 031.

The limestone/slag, clinker, and/or gypsum on Finish Mill No. 2's Feed Belt are transferred to Finish Mill No. 2. Product from Finish Mill No. 2 is removed via air slide/elevator to a separator where cement is classified by size. The larger cement particles are returned to Finish Mill No. 2 for further grinding and the smaller cement particles are transported via an air slide to a cement cooler. From the cement cooler, product enters the No. 2 Separator where it again is separated by size. The larger particles are returned to Finish Mill No. 2 for further grinding and the finished cement is pneumatically transferred to Cement Storage Silo Nos. 1 and/or 2 using FK Pump No. 2. Emissions from this process (excluding Cement Storage Silo Nos. 1 and 2) are controlled by a Mikro Pulsaire, Model 320S-8TR-20, baghouse designated as BH11 and rated at 17,470 acfm and 13,300 dscfm. Note, Baghouse BH11 also serves Emission Unit Nos. 033 and 045.

PERFORMANCE RESTRICTIONS

I.1. Federal Regulatory Requirements: These emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

I.2. Permitted Capacity for Emission Unit No. 034: Limestone/Slag in storage piles is transferred by front-end loader to a Limestone/Slag Hopper at a maximum rate of 22,000 tons per any consecutive 12-month period.

I.3. Permitted Capacity for Emission Unit No. 035: Finish Mill No. 2 is allowed to produce cement (produced cement) at a maximum rate of 432,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

EMISSIONS STANDARDS

I.4. Emission Unit No. 034's Visible Emissions Limitations: The following emission points for this emission unit shall not exceed the maximum allowable visible emission values as shown in the table below when transferring limestone/slag:

Emission Point No.	Brief Description	Maximum Opacity %
1	Storage Pile(s) to Front-end loader	<10*
2	Front-end loader to Limestone/Slag Hopper	<10*
3	Limestone/Slag Hopper to Limestone/Slag Belt	<10*
4	Limestone/Slag Belt to Gypsum Belt	<10*

* Opacity limitation pursuant to 40 CFR 60.62(c)

I.5. Emission Unit No. 035's Particulate Matter (PM) and Visible Emissions Limitations: The following emission points for this emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below when producing "produced cement":

Emission Point No.	Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Maximum Opacity %
1	Emissions from Baghouse BH10	0.12*	0.5*	5**
2	Emissions from Baghouse BH11	0.48*	6.31*	5**

* Emission limitations for the facility to be exempt from the Reasonable Available Control Technology (RACT) Particulate Matter requirements, pursuant to Rule 62-296.700(2)(b), F.A.C. Emission limitations are based on material throughput, emission factors, and baghouse control efficiencies specified in the permittee's application submitted on September 23, 2009.

** Although this emission point controlled by a baghouse is also limited to an opacity limitation of <10% pursuant to 40 CFR 60.62(c), the Department in accordance with Rule 62-297.620(4), F.A.C. establishes a stricter maximum visible emission limitation of 5% opacity in lieu of particulate matter emission compliance testing.

TESTING REQUIREMENTS

I.6. Visible Emission Compliance Tests Upon Reactivation: All the emission points associated with each emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted within 60 days of the date the emission unit has been reactivated.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

I.7. Visible Emission Compliance Tests After the Reactivation Tests: All the emission points associated with each emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for these emission units.
[Rules 62-4.070(3), 62-210.310(4)(a)2., and 62-297.310(7)(a)4., F.A.C.]

I.8. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

I.9. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
1, 2, 4	Traverse Points, Velocity and Flow Rate, and Moisture Content (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
5	Determination of Particulate Matter Emissions from Stationary Sources (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

I.10. Test Notifications: The permittee shall comply with the following:

a. For each reactivation visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the reactivation test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

I.11. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The applicable, actual limestone/slag transfer rate in tons/hr. or the actual production of produced cement in tons/hr. for the test period.

b. A copy of the applicable monthly log as required in Specific Condition No. I.12. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

I.12. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when limestone/slag was transferred)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring limestone/slag.

c. Most recent consecutive 12-month total hours of transferring limestone/slag.

d. Amount of limestone/slag in tons.

e. Most recent consecutive 12-month total amount of limestone/slag transferred in tons.

MONTHLY (when produced cement was produced)

f. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

g. Total hours of producing cement.

h. Most recent consecutive 12-month total hours of producing cement.

i. Amount of produced cement in tons.

j. Most recent consecutive 12-month total amount of produced cement in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Emission Units Subject to 40 CFR 60, Subpart F (NSPS)

Subsection J. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
036	Produced Cement to Cement Storage Silo Nos. 1 and 2 *This emission unit replaces activities addressed in Emission Unit No. 010 in permit 0810011-010-AF.*

Produced cement from Finish Mill No. 1 (FK Pump No. 1 or FK Pump No. 2) and/or Finish Mill No. 2 (via FK Pump No. 2) is pneumatically transferred to Cement Storage Silo Nos. 1 and/or 2. The produced cement is transferred at a maximum rate of 106 tons/hr. based on a total combined daily average production rate of Finish Mill Nos. 1 and 2. Cement Storage Silo Nos. 1 and 2 receive a maximum total combined amount of 864,000 tons of produced cement per any consecutive 12-month period from Finish Mill Nos. 1 and 2.

Emissions from Cement Storage Silo No. 1 (shorter silo) are vented to Cement Silo No. 2 (taller silo). Emissions from Cement Storage Silo No. 2 are controlled by BHA Pulse Jet Cartridge, Model 210101, baghouse designated as BH13 and rated at 4,500 acfm and 4,027 dscfm. The baghouse is located on top of Cement Storage Silo No. 2 (taller silo). Note, Baghouse BH13 also serves Emission Unit No. 045.

PERFORMANCE RESTRICTIONS

J.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

J.2. Permitted Capacity: Cement Storage Silo Nos. 1 and 2 receive a maximum total combined amount of 864,000 tons of produced cement per any consecutive 12-month period from Finish Mill Nos. 1 and 2.
[Rule 62-210.200 (PTE), F.A.C.]

J.3. Operational Limitations: The permittee shall comply with the following:

a. FK Pump Nos. 1 and 2 can not simultaneously transfer produced cement from Finish Mill No. 1.

b. Since the silos may also contain non-produced cement or dry fly ash (as further described below), the permittee shall maintain adequate records to document what material is in the silo(s) and that only one material (produced cement, non-produced cement, or dry fly ash) at a time is present in the silo(s).

[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

J.4. Particulate Matter (PM) and Visible Emissions Limitations: This emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below:

Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Maximum Opacity %
Emissions from Baghouse BH13	0.76*	3.11*	5**

* Emission limitations for the facility to be exempt from the Reasonable Available Control Technology (RACT) Particulate Matter requirements, pursuant to Rule 62-296.700(2)(b), F.A.C. Emission limitations are based on material throughput, emission factors, and baghouse control efficiencies specified in the permittee's application submitted on September 23, 2009.

** Although this emission unit controlled by a baghouse is also limited to an opacity limitation of <10% pursuant to 40 CFR 60.62(c), the Department in accordance with Rule 62-297.620(4), F.A.C. establishes a stricter maximum visible emission limitation of 5% opacity in lieu of particulate matter emission compliance testing.

TESTING REQUIREMENTS

J.5. Visible Emission Compliance Tests Upon Reactivation: This emission unit shall be tested to demonstrate compliance with the visible emissions limitation. The test shall be conducted within 60 days of the date the emission unit has been reactivated.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

J.6. Visible Emission Compliance Tests After the Reactivation Tests: This emission unit shall be tested to demonstrate compliance with the visible emissions limitation. The test shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit.
[Rules 62-4.070(3), 62-210.310(4)(a)2., and 62-297.310(7)(a)4., F.A.C.]

J.7. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

J.8. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
1, 2, 4	Traverse Points, Velocity and Flow Rate, and Moisture Content (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
5	Determination of Particulate Matter Emissions from Stationary Sources (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

J.9. Test Notifications: The permittee shall comply with the following:

a. For each reactivation visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the reactivation test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

J.10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual total combined production rate from Finish Mill Nos. 1 and 2 of produced cement in tons/hr. for the test period.
b. A copy of the monthly log as required in Specific Condition No. J.11. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

J.11. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Hours of receiving produced cement.

c. Most recent consecutive 12-month hours of receiving produced cement.

d. Total combined amount of produced cement received from Finish Mill Nos. 1 and 2 in tons.
e. Most recent consecutive 12-month total combined amount of produced cement received from Finish Mill Nos. 1 and 2 in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection K. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
037	Truck Loading of Produced Cement *This emission unit replaces activities addressed in Emission Unit No. 003 in permit 0810011-010-AF.*

Produced cement from Cement Storage Silo Nos. 1 and 2 are loaded into trucks. Under each silo is a truck loading station. Each station can only load one (1) truck a time and the stations can operate simultaneously. Truck loading Station No. 1 is located under Cement Storage Silo No. 1 (shorter silo) and Truck Loading Station No. 2 is located under Cement Storage Silo No. 2 (taller silo). Each truck loading station can load a maximum of 200 tons per hour of produced cement based on a daily average. The total combined amount of produced cement that can be loaded into trucks is 864,000 tons per any consecutive 12-month period. Emissions from the truck loading stations are controlled by a common Fuller Draco Plenum Pulse, Model 24-2-500, baghouse designated as BH14 and rated at 3,352 acfm and 3,000 dscfm. The baghouse is located on top of Cement Storage Silo No. 1 (shorter silo). Note, Baghouse BH14 also serves Emission Unit Nos. 038, 039, 046, 048, and 050.

PERFORMANCE RESTRICTIONS

K.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

K.2. Permitted Capacity: The truck loading stations load trucks at maximum total combined amount of 864,000 tons of produced cement per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

K.3. Operational Limitation: The truck loading stations are limited as follows:

a. Each truck loading station can only load one (1) truck at a time.

b. The truck loading stations can load trucks simultaneously.

[Rule 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

K.4. Particulate Matter (PM) and Visible Emissions Limitations: This emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below:

Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Maximum Opacity %
Emissions from Baghouse BH14	0.31*	0.5*	5**

* Emission limitations for the facility to be exempt from the Reasonable Available Control Technology (RACT) Particulate Matter requirements, pursuant to Rule 62-296.700(2)(b), F.A.C. Emission limitations are based on material throughput, emission factors, and baghouse control efficiencies specified in the permittee's application submitted on September 23, 2009.

** Although this emission unit controlled by a baghouse is also limited to an opacity limitation of <10% pursuant to 40 CFR 60.62(c), the Department in accordance with Rule 62-297.620(4), F.A.C. establishes a stricter maximum visible emission limitation of 5% opacity in lieu of particulate matter emission compliance testing.

TESTING REQUIREMENTS

K.5. Visible Emission Compliance Tests Upon Reactivation: This emission unit shall be tested to demonstrate compliance with the visible emissions limitation. The test shall be conducted within 60 days of the date the emission unit has been reactivated and when both truck loading stations are operating simultaneously.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

K.6. Visible Emission Compliance Tests After the Reactivation Tests: This emission unit shall be tested to demonstrate compliance with the visible emissions limitation. The test shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit and when both truck loading stations are operating simultaneously.
[Rules 62-4.070(3), 62-210.310(4)(a)2., and 62-297.310(7)(a)4., F.A.C.]

K.7. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

K.8. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
1, 2, 4	Traverse Points, Velocity and Flow Rate, and Moisture Content (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
5	Determination of Particulate Matter Emissions from Stationary Sources (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

K.9. Test Notifications: The permittee shall comply with the following:

a. For each reactivation visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the reactivation test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

K.10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. For each truck loading station the actual truck loading rate in tons/hr. for the test period.

b. For both truck loading stations the actual total combined truck loading rate in tons/hr. for the test period.

c. A copy of the monthly log as required in Specific Condition No. K.11. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

K.11. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of loading trucks (do not double count).

c. Most recent total combined consecutive 12-month hours of loading trucks (do not double count).

d. Total combined amount of produced cement loaded into trucks in tons.

e. Most recent consecutive 12-month total combined amount of produced cement loaded into trucks in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection L. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
038	Produced Cement Exported via Kinder Morgan System

Produced cement in Cement Storage Silo Nos. 1 and/or 2 is transferred for export by ships at a maximum rate of 400 tons/hr. based on a daily average and 864,000 tons per any consecutive 12-month period.

The produced cement in each silo is first transferred to its own air slide. Emissions from these two (2) transfer points are controlled by a common Fuller Draco Plenum Pulse, Model 24-2-500, baghouse designated as BH14 and rated at 3,875 acfm and 3,734 dscfm. Note, Baghouse BH14 also serves Emission Unit Nos. 037, 039, 046, 048, and 050.

The air slides then transfer the produced cement to New Belt No. 2 (different than Belt No. 2 in E.U. 025). The emissions from the two (2) transfer points associated with the air slides to New Belt No. 2 are controlled a by a common BHA Pulse Jet Cartridge, Model 505-4322, baghouse designated as Baghouse BH2A rated at 15,000 acfm and 14,417 dscfm. Note, Baghouse BH2A also serves Emission Unit Nos. 025, 041, and 048.

New Belt No. 2 then transfers the produced cement to a hopper located inside Kinder Morgan's Warehouse No. 2. The hopper then transfers (inside) the produced cement to Belt No. 12. Belt No. 12 then transfers (outside) the produced cement to Belt No. 13A. Emissions from these three (3) emission points are controlled by a common Fuller baghouse designated as Baghouse BH2B rated at 12,000 acfm and 11,534 dscfm. Note, Baghouse BH2B also serves Emission Unit Nos. 025, 041, 047, and 048.

Belt No. 13A then transfers the produced cement to Belt F. Emissions from this transfer point are controlled by Baghouse KM-5 rated at 4,481 acfm and 4,307 dscfm.

Belt F then transfers the produced cement to Belt G. Emissions from this transfer point are controlled by Baghouse KM-8 rated at 1,993 acfm and 1,916 dscfm.

Belt G then transfers (out of scale house) produced cement to the West Gantry's first of two belts. This transfer point is uncontrolled and its emissions are considered fugitive emissions.

The West Gantry's first belt then transfers the produced cement to the West Gantry's second of two belts. The West Gantry's second belt then transfers the produced cement to the West Gantry, which then transfers the produced cement to a ship. Emissions from these three (3) transfer points are controlled by a common BHA Pulse Jet Cartridge, Model 505-4320, baghouse designated as Baghouse BH1A and rated at 15,000 acfm and 14,417 dscfm. Note, Baghouse BH1A also serves Emission Unit Nos. 025, 039, 041, 047, 048, 049, and 050.

Belt G can also transfer (out of scale house) produced cement to the East Gantry's Belt H. Emissions from this transfer point are controlled by Baghouse KM-6 rated at 2,350 acfm and 2,259 dscfm.

Belt H then transfers the produced cement to the East Gantry, which then transfers the produced cement to a ship. Emissions from these two (2) transfer points are controlled by a common BHA Pulse Jet Cartridge, Model 505-4320, baghouse designated as Baghouse BH1B rated at 15,000 acfm and 14,417 dscfm. Note, Baghouse BH1B also serves Emission Unit Nos. 025, 040, 041, 047, 048, and 051.

The West Gantry and East Gantry may load ships with produced cement simultaneously.

PERFORMANCE RESTRICTIONS

L.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

L.2. Permitted Capacity: Produced cement in Cement Storage Silo Nos. 1 and/or 2 is transferred for export by ships at a maximum rate of 864,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

L.3. Operational Limitations: Since the storage silos may also contain non-produced cement or dry fly ash, the permittee shall maintain adequate records to document what material is in the silo(s) and that only one material (produced cement, non-produced cement, or dry fly ash) at a time is present in the silo(s).
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

L.4. Particulate Matter (PM) and Visible Emissions Limitations: The following emission points for this emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below when transferring produced cement:

Emission Point No.	Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Maximum Opacity %
1	Emissions from Baghouse BH14	0.05*	0.05*	5***
2	Emissions from Baghouse BH2A	0.46*	0.50*	5***
3	Emissions from Baghouse BH2B	1.38*	1.50*	5***
4	Emissions from Baghouse KM-5	0.46*	0.50*	5***
5	Emissions from Baghouse KM-8	0.46*	0.50*	5***
6	Emissions from Baghouse KM-6[a]	0.46*	0.50*	5***
7	Emissions from Baghouse BH1A[a]	1.38*	1.50*	5***
8	Emissions from Baghouse BH1B[a]	0.92*	1.00*	5***

Emission Units Subject to 40 CFR 60, Subpart F (NSPS)

Emission Point No.	Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Maximum Opacity %
9	Fugitive emissions from Belt G to West Gantry's first of two belts (out of scale house).	n/a		<10**

[a] Do not double count the allowable tons/yr. values for Baghouses KM-6 & BH1B vs. BH1A, since the allowable values are based as if all the produced cement went either through the West Gantry or the East Gantry.

* Emission limitations for the facility to be exempt from the Reasonable Available Control Technology (RACT) Particulate Matter requirements, pursuant to Rule 62-296.700(2)(b), F.A.C. Emission limitations are based on material throughput, emission factors, and baghouse control efficiencies specified in the permittee's application submitted on September 23, 2009.

** Opacity limitation pursuant to 40 CFR 60.62(c).

*** Although this emission point controlled by a baghouse is also limited to an opacity limitation of <10% pursuant to 40 CFR 60.62(c), the Department in accordance with Rule 62-297.620(4), F.A.C. establishes a stricter maximum visible emission limitation of 5% opacity in lieu of particulate matter emission compliance testing.

TESTING REQUIREMENTS

L.5. Initial Visible Emission Compliance Tests: All the emission points associated with the emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted during the loading of the first ship after the effective date of this permit.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

L.6. Visible Emission Compliance Tests After Initial Tests: All the emission points associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit.
[Rules 62-4.070(3), 62-210.310(4)(a)2., and 62-297.310(7)(a)4., F.A.C.]

L.7. Test Requirements: Tests shall be conducted as follows:

a. In accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.

b. Testing of Baghouses BH KM-6 and BH1B shall be conducted when the West Gantry is not operating.

c. Testing of Baghouse BH1A shall be conducted when the East Gantry is not operating.

[Rule 62-297.310, F.A.C.]

L.8. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
1, 2, 4	Traverse Points, Velocity and Flow Rate, and Moisture Content (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
5	Determination of Particulate Matter Emissions from Stationary Sources (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

L.9. Test Notifications: The permittee shall comply with the following:

a. For each initial visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the initial test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

L.10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. L.11. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

L.11. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring produced cement.

c. Most recent consecutive 12-month total hours of transferring produced cement.

d. Amount of produced cement transferred in tons.

e. Most recent consecutive 12-month total amount of produced cement transferred in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection M. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
039	Produced Cement Exported via Pneumatic Conveyance to Ship

Produced cement in Cement Storage Silo Nos. 1 and/or 2 is transferred for export by pneumatic conveyance to ships at a maximum rate of 125 tons/hr. based on a daily average and 864,000 tons per any consecutive 12-month period.

The produced cement in each silo is first transferred to its own air slide. The air slides then each transfers the produced cement to a hopper, which then transfers the produced cement to a FK pump. Emissions from these five (5) transfer points are controlled by a common Fuller Draco Plenum Pulse,

Model 24-2-500, baghouse designated as BH14 and rated at 3,875 acfm and 3,734 dscfm. Note, Baghouse BH14 also serves Emission Unit Nos. 037, 038, 046, 048, and 050.

The FK pump then transfer the produced cement through a pneumatic pipe line to a ship. Emissions from the ship are controlled by a BHA Pulse Jet Cartridge, Model 505-4320, baghouse designated as Baghouse BH1A and rated at 15,000 acfm and 14,417 dscfm. Note, Baghouse BH1A also serves Emission Unit Nos. 025, 038, 041, 047, 048, 049, and 050.

PERFORMANCE RESTRICTIONS

M.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

M.2. Permitted Capacity: Produced cement in Cement Storage Silo Nos. 1 and/or 2 is transferred for export by pneumatic conveyance to ships at a maximum rate of 864,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

M.3. Operational Limitations: Since the storage silos may also contain non-produced cement or dry fly ash, the permittee shall maintain adequate records to document what material is in the silo(s) and that only one material (produced cement, non-produced cement, or dry fly ash) at a time is present in the silo(s).
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

M.4. Particulate Matter (PM) and Visible Emissions Limitations: The following emission points for this emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below when transferring produced cement:

Emission Point No.	Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Maximum Opacity %
1	Emissions from Baghouse BH14	1.25*	4.67*	5**
2	Emissions from Baghouse BH1A	0.90*	3.11*	5**

* Emission limitations for the facility to be exempt from the Reasonable Available Control Technology (RACT) Particulate Matter requirements, pursuant to Rule 62-296.700(2)(b), F.A.C. Emission limitations are based on material throughput, emission factors, and baghouse control efficiencies specified in the permittee's application submitted on September 23, 2009.

** Although this emission point controlled by a baghouse is also limited to an opacity limitation of <10% pursuant to 40 CFR 60.62(c), the Department in accordance with Rule 62-297.620(4), F.A.C. establishes a stricter maximum visible emission limitation of 5% opacity in lieu of particulate matter emission compliance testing.

TESTING REQUIREMENTS

M.5. Initial Visible Emission Compliance Tests: All the emission points associated with the emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted during the loading of the first ship after the effective date of this permit.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

M.6. Visible Emission Compliance Tests After Initial Tests: All the emission points associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit.
[Rules 62-4.070(3), 62-210.310(4)(a)2., and 62-297.310(7)(a)4., F.A.C.]

M.7. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

M.8. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
1, 2, 4	Traverse Points, Velocity and Flow Rate, and Moisture Content (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
5	Determination of Particulate Matter Emissions from Stationary Sources (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

M.9. Test Notifications: The permittee shall comply with the following:

a. For each initial visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for

coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the initial test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

M.10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. M.11. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

M.11. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring produced cement.

c. Most recent consecutive 12-month total hours of transferring produced cement.

d. Amount of produced cement transferred in tons.

e. Most recent consecutive 12-month total amount of produced cement transferred in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection N. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
040	Produced Cement Exported via Trucks to Ship

Produced cement that has been loaded into trucks at the two (2) truck loading stations associated with Cement Storage Silo Nos. 1 and 2 is transferred to a ship. Up to 12 trucks from the two (2) truck loading stations can be connected and unloaded simultaneously to a closed pneumatic manifold/plate system that has up to 12 input lines. Although each truck can transfer produced cement at a maximum rate of 30 tons/hr., the manifold/plate system transfers the produced cement at a maximum total combined rate of 300 tons/hr. and 864,000 tons per any consecutive 12-month period. The manifold/plate system then transfers the produced cement to a single closed line that loads a ship. The emissions from the ship are controlled by a BHA Pulse Jet Cartridge, Model 505-4320, baghouse designated as Baghouse BH1B rated at 15,000 acfm and 14,417 dscfm. Note, Baghouse BH1B also serves Emission Unit Nos. 025, 038, 044, 047, 048, and 051.

PERFORMANCE RESTRICTIONS

N.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 60, Subpart F - Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800, F.A.C.
[Rule 62-204.800(8), F.A.C.]

N.2. Permitted Capacity: The manifold/plate system's single closed line used to load a ship has a maximum total combined transfer rate of 864,000 tons per any consecutive 12-month period.
[Rule 62-210.200(PTE), F.A.C.]

N.3. Operational Limitations: The manifold/plate system shall unload a maximum of 12 trucks simultaneously.
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

N.4. Particulate Matter (PM) and Visible Emissions Limitations: This emission unit shall not exceed the maximum allowable particulate matter (PM) and visible emission values as shown in the table below when transferring produced cement:

Brief Description	Maximum PM lbs./hr.	Maximum PM tons/yr.	Maximum Opacity %
Emissions from Baghouse BH1B	2.16*	3.11*	<5**

* Emission limitations for the facility to be exempt from the Reasonable Available Control Technology (RACT) Particulate Matter requirements, pursuant to Rule 62-296.700(2)(b),

F.A.C. Emission limitations are based on material throughput, emission factors, and baghouse control efficiencies specified in the permittee's application submitted on September 23, 2009.

** Although this emission point controlled by a baghouse is also limited to an opacity limitation of <10% pursuant to 40 CFR 60.62(c), the Department in accordance with Rule 62-297.620(4), F.A.C. establishes a stricter maximum visible emission limitation of 5% opacity in lieu of particulate matter emission compliance testing.

TESTING REQUIREMENTS

N.5. Initial Visible Emission Compliance Test: This emission unit shall be tested to demonstrate compliance with the visible emissions limitation. The test shall be conducted during the loading of the first ship after the effective date of this permit.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

N.6. Visible Emission Compliance Tests After Initial Test: This emission unit shall be tested to demonstrate compliance with the visible emissions limitation. The test shall be conducted no more than 365 days and no less than 105 days prior to the expiration date of any effective air operation permit for this emission unit.
[Rules 62-4.070(3), 62-210.310(4)(a)2., and 62-297.310(7)(a)4., F.A.C.]

N.7. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

N.8. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
1, 2, 4	Traverse Points, Velocity and Flow Rate, and Moisture Content (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
5	Determination of Particulate Matter Emissions from Stationary Sources (if requested by the Department pursuant to Rule 62-210.310(7)(b), F.A.C.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

N.9. Test Notifications: The permittee shall comply with the following:

a. For each initial visible emission test: The permittee shall notify the Compliance Authority of the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. The notification shall be postmarked not less than 30 days prior to such date.

b. For each visible emission test after the reactivation test: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

N.10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.
b. A copy of the monthly log as required in Specific Condition No. N.11. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

N.11. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)
b. Total combined hours of unloading trucks (do not double count).
c. Most recent consecutive 12-month total hours of unloading trucks.
d. Total combined amount of produced cement unloaded (transferred to ship) in tons.
e. Most recent consecutive 12-month total combined amount of produced cement unloaded (transferred to ship) in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection O. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
041	Wet Fly Ash and Phosphate Rock received by Ships to Clinker & Wet Fly Ash Storage Building

Wet fly ash is unloaded from ships/barges at a maximum transfer rate of 800 tons/hr. based on a daily average and 150,000 tons per any consecutive 12-month period using unloading devices (i.e., clamshell) and transferred to the Clinker & Wet Fly Ash Storage Building.

Phosphate rock is unloaded from ships/barges at a maximum transfer rate of 800 tons/hr. based on a daily average and 400,000 tons per any consecutive 12-month period using unloading devices (i.e., clamshell) and transferred to the Clinker & Wet Fly Ash Storage Building.

Wet fly ash or phosphate rock in the holds of a ship/barge is removed by clamshell(s) and transferred to a West Hopper and/or East Hopper. Emissions from the top of the West Hopper are controlled by two (2) BHA Pulse Jet Cartridge, Model 505-4320, baghouses identified as Baghouse BH1A (west) and Baghouse BH1B (east). Baghouses BH1A and BH1B are each rated at 15,000 acfm and 14,417 dscfm. Emissions from the top of the East Hopper are controlled by a BHA Pulse Jet Cartridge, Model 505-4322, baghouse designated as Baghouse BH2A (west) rated at 15,000 acfm and 14,417 dscfm along with a Fuller baghouse designated as Baghouse BH2B (east) rated at 12,000 acfm and 11,534 dscfm. Baghouses BH1A, BH1B, BH2A, and BH2B also serve Emission Unit Nos. 025, 038, and 048. Baghouse BH1A also serves Emission Unit Nos. 039, 047, 049, and 050. Baghouse BH1B also serves Emission Unit Nos. 040, 047, and 051. Baghouse BH2B also serves Emission Unit No. 047.

Wet fly ash or phosphate rock in the hoppers is transferred to common conveyor belt (Belt No. 7) that moves first under the West Hopper and then under the East Hopper. The two (2) baghouse associated with each hopper also control emissions as the material from the hoppers transfers to Belt No. 7.

The West Hopper and East Hopper are each able to travel east and west above a portion of Belt No. 7, that portion of the belt does not have 180 degree top covers to prevent unconfined emissions.

Wet fly ash or phosphate rock on Belt No. 7 is then transferred to Belt No. 6. Emissions are controlled by a Fuller, Model 36D510, baghouse designated as Baghouse BH15 and rated at 3,000 acfm and 2,883 dscfm.

Wet fly ash or phosphate rock on Belt No. 6 is then transferred to Belt No. 5. Emissions are controlled by a Fuller, Model 36D510, baghouse designated as Baghouse BH16 and rated at 3,000 acfm and 2,883 dscfm.

Wet fly ash or phosphate rock on Belt No. 5 is then transferred to Incline Belt No. 4. Emissions are controlled by Fuller, Model 48D510, baghouse designated as Baghouse BH17 and rated at 4,000 acfm and 3,845 dscfm.

Wet fly ash or phosphate rock on Incline Belt No. 4 is then transferred to Transfer Tower No. 1. Emissions are controlled by a DCE Dalamatic, Model DLM V20/10 F5, baghouse designated as Baghouse BH4 and rated at 2,000 acfm and 1,922 dscfm. Note, Baghouse BH4 also serves Emission Unit Nos. 025 and 026.

Wet fly ash or phosphate rock from Transfer Tower No. 1 is then transferred to Incline Belt No. 3. Emissions are controlled by a Mikro Pulsaire, Model 255-8-30, baghouse designated as BH5 and rated at 2,500 acfm and 2,403 dscfm. Note, Baghouse BH5 also serves Emission Unit Nos. 025 and 026.

Wet fly ash or phosphate rock from Incline Belt No. 3 is transferred to Belt No. 2 inside Transfer Tower No. 2. Emissions are controlled by a Fuller, Model No. 80-23451-325, baghouse designated as BH6 and rated at 4,000 acfm and 3,845 dscfm. Note, Baghouse BH6 also serves Emission Unit Nos. 025 and 026.

Wet fly ash or phosphate rock from Belt No. 2 is then transferred to Shuttle Belt No. 1 located inside and along the roof of the Clinker & Wet Fly Ash Storage Building where the shuttle belt drops the wet fly ash onto storage piles. Emissions are controlled by a DCE Dalamatic, Model DLM V20/10 F5, baghouse designated as BH7 and rated at 2,000 acfm and 1,959 dscfm. Note, Baghouse BH7 also serves Emission Unit Nos. 025, 026, 044, and 047.

PERFORMANCE RESTRICTIONS

O.1. Permitted Capacity: This emission unit is limited to the following:

a. Wet fly ash from ships/barges is unloaded at a maximum rate of 150,000 tons per any consecutive 12-month period.

b. Phosphate rock from ships/barges is unloaded at a maxim rate of 400,000 tons per any consecutive 12-month period.

c. The amount of phosphate rock received by ships/barges and the amount of clinker received by ships/barges associated with Emission Unit No. 025 shall not exceed a total of 1,264,000 tons per any consecutive 12-month period.

[Rule 62-210.200 (PTE), F.A.C.]

O.2. Reasonable Precautions to Control Unconfined Particulate Matter: All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter. This provision is applicable to any source, including but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, and handling. Reasonable precautions shall include but are not limited to the following:

a. A tarpaulin shall be attached between the dock and the ship when the clamshells are transferring material. The tarpaulin shall be positioned below the clamshell's arc of travel

such that any material spilled will be contained on the dock. The contained material shall be cleaned-up by shoveling and/or sweeping at least once during each 8-hour shift. An 8-hour shift is defined as from 11:00 p.m. to 7:00 a.m., 7:00 a.m. to 3:00 p.m., and 3:00 p.m. to 11:00 p.m.

b. Tight-lipped clamshells to prevent material leakage shall be used and the clamshells shall be fully closed prior to being lifted from a hold.

c. The accumulation of material inside and/or outside the clamshell is prohibited.

d. No air blowers shall be used in the ship's hold(s) to gather material for the final clean out of the cargo hold(s).

e. Hoppers shall be equipped with permanent or temporary wind shields on all 4 sides at all times. The wind shields shall be installed from the top of the hopper ascending upward either in a vertical direction or in an upward-and-outward direction at an angle that is no less than the acute angle between the hopper's side and the horizontal.

f. All wind shields shall be no less than 4 feet high from the top of the wind shield to the top of the associated hopper side as measured in the vertical.

g. When transferring material from clamshells into hoppers:

   1. The free fall distance of material shall not exceed five (5) feet.
   2. The clamshell shall not open until the top of clamshell is below the top of the hopper's wind shields.

h. Use tarps around the bottom of the hoppers to cover Belt No. 7, as best as practical.

i. Enclose, to best extent possible for safety and maintenance considerations, the bottom "tail" pulley in the Transfer Tower No. 1.

j. Use smooth roller type belt cleaning pulleys to lessen belt vibration in Transfer Tower No. 1.

[Rules 62-4.070(3) and 62-296.320(4)(c), F.A.C.]

O.3. <u>Operational Limitation:</u> The West and East Hoppers shall each be clearly marked/labeled in order to distinguish the West Hopper from the East Hopper.
[Rule 62-4.070(3), F.A.C.]

EMISSIONS STANDARDS

O.4. Visible Emissions Limitations: The following emission points for this emission unit shall not exceed the maximum allowable visible emission values as shown in the table below when transferring wet fly ash or phosphate rock:

Emission Point No.	Brief Description	Maximum Opacity %
1	Ship's/ Barge's Hold(s) to Clamshell(s): Emissions from hold(s)	<20
2	Clamshells to West Hopper: Emissions from Baghouse BH1A (west)	<20
3	Clamshells to West Hopper: Emissions from Baghouse BH1B (east)	<20
4	Clamshells to West Hopper: Emissions from top of hopper	<20
5	Clamshells to East Hopper: Emissions from Baghouse BH2A (west)	<20
6	Clamshells to East Hopper: Emissions from Baghouse BH2B (east)	<20
7	Clamshells to East Hopper: Emissions from top of hopper	<20
8	Belt No. 7 to Belt No. 6: Emissions from Baghouse BH15	<20
9	Belt No. 6 to Belt No. 5: Emissions from Baghouse BH16	<20
10	Belt No. 5 to Incline Belt No. 4: Emissions from Baghouse BH17	<20
11	Incline Belt No. 4 & Clinker from railcar unloading building to Transfer Tower No. 1: Emissions from Baghouse BH4	<20
12	Transfer Tower No. 1 to Incline Belt No. 3: Emissions from Baghouse BH5	<20
13	Incline Belt No. 3 to Belt No. 2: Emissions from Baghouse BH6	<20
14	Belt No. 2 to Shuttle Belt No. 1 to Storage Piles inside Clinker & Wet Fly Ash Storage Building: Emissions from Baghouse BH7	<20

[Rule 62-296.320(4)(b), F.A.C.]

TESTING REQUIREMENTS

O.5. Initial Visible Emission Compliance Tests: All the emission points* associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted during the unloading of the first ship/barge that unloads wet fly ash or phosphate rock.

* Since ships/barges may have more than one (1) hold, visible emission testing of a single hold when it is actually transferring wet fly ash or phosphate rock to the hopper(s) shall be considered acceptable provided the test was conducted when the highest opacity emissions can reasonably be expected to occur.

[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.]

O.6. Visible Emission Compliance Tests After the Initial Tests: No routine scheduled tests are required.

O.7. Test Requirements: Tests shall be conducted as follows:

a. In accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.

b. Since transferring phosphate rock is considered when the highest emissions are expected to occur, if a test is conducted when transferring wet fly ash, then during the next transfer of phosphate rock a new visible emission test shall be conducted.

[Rule 62-297.310, F.A.C.]

O.8. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

O.9. Test Notifications: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

O.10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. O.11. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

O.11. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total combined hours of transferring wet fly ash and phosphate rock to the West and East Hoppers.

c. Most recent consecutive 12-month total combined hours of transferring wet fly ash and phosphate rock to the West and East Hoppers.

d. Amount of wet fly ash transferred to the West and East Hoppers in tons.

e. Amount of phosphate rock to the West and East Hoppers in tons.

f. Most recent consecutive 12-month total amount of wet fly ash transferred to the West and East Hoppers in tons.

f. Most recent consecutive 12-month total amount of phosphate rock transferred to the West and East Hoppers in tons.

g. Total combined amount of wet fly ash and phosphate rock transferred to the West and East Hoppers in tons.

h. Most recent consecutive 12-month total combined amount of wet fly ash and phosphate rock transferred to the West and East Hoppers in tons.

i. Most recent consecutive 12-month total combined amount of clinker received by ship (see Specific Condition No. A.12.j. for Emission Unit No. 025) and phosphate rock received by ship. (also see Specific Condition No. A.12.k.)

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection P. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
042	Wet Fly Ash received by Ship to Hoppers to Trucks
043	Trucks with Wet Fly Ash to Clinker & Wet Fly Ash Storage Building

Emission Unit No. 042: Wet Fly Ash that is not used in the production of cement is unloaded from ships/barges at a maximum transfer rate of 500 tons/hr. based on a daily average and 150,000 tons per any consecutive 12-month period using unloading devices (i.e., clamshell).

Wet Fly Ash in the holds of a ship/barge is removed by clamshell(s) and transferred to a West Hopper and/or East Hopper.

Wet Fly Ash in each hopper is then transferred through each hopper's own totally enclosed chute to a truck. Each hopper's chute can only load one (1) truck at a time. Two (2) trucks may be loaded simultaneously.

The unloading operations from ships/barges may be owned and/or operated by another facility that has a valid air pollution permit. In this case, the unloading operations and their associated equipment would then be only responsible to comply with the terms and conditions of the other facility's permit.

Emission Unit No. 043: Trucks loaded with wet fly ash that is not used in the production of cement from Emission Unit No. 042 or from other on-site and/or off-site facilities are allowed to be driven to and unloaded in the Clinker & Wet Fly Ash Storage Building. The trucks are each unloaded at a maximum rate of 500 tons/hr. based on a daily average.

Emissions from these emission units are not controlled.

PERFORMANCE RESTRICTIONS

P.1. Permitted Capacity for Emission Unit No. 042: Wet fly ash from ships/barges is unloaded at a maximum rate of 150,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

P.2. Permitted Capacity for Emission Unit No. 043: Trucks loaded with wet fly ash that is not used for production of cement are unloaded in the Clinker & Wet Fly Ash Storage Building at a maximum rate of 150,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

P.3. Reasonable Precautions to Control Unconfined Particulate Matter for Emission Unit No. 042: All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter. This provision is applicable to any source, including but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, and handling. Reasonable precautions shall include but are not limited to the following:

a. A tarpaulin shall be attached between the dock and the ship when the clamshells are transferring material. The tarpaulin shall be positioned below the clamshell's arc of travel such that any material spilled will be contained on the dock. The contained material shall be cleaned-up by shoveling and/or sweeping at least once during each 8-hour shift. An 8-hour shift is defined as from 11:00 p.m. to 7:00 a.m., 7:00 a.m. to 3:00 p.m., and 3:00 p.m. to 11:00 p.m.

b. Tight-lipped clamshells to prevent material leakage shall be used and the clamshells shall be fully closed prior to being lifted from a hold.

c. The accumulation of material inside and/or outside the clamshell is prohibited.

d. No air blowers shall be used in the ship's hold(s) to gather material for the final clean out of the cargo hold(s).

e. Hoppers shall be equipped with permanent or temporary wind shields on all 4 sides at all times. The wind shields shall be installed from the top of the hopper ascending upward either in a vertical direction or in an upward-and-outward direction at an angle that is no less than the acute angle between the hopper's side and the horizontal.

f. All wind shields shall be no less than 4 feet high from the top of the wind shield to the top of the associated hopper side as measured in the vertical.

g. When transferring material from clamshells into hoppers:

1. The free fall distance of material shall not exceed five (5) feet.
2. The clamshell shall not open until the top of clamshell is below the top of the hopper's wind shields.

[Rules 62-4.070(3) and 62-296.320(4)(c), F.A.C.]

P.4. Operational Limitation for Emission Unit No. 042: The two (2) Hoppers shall each be clearly marked/labeled in order to distinguish one hopper from the other hopper (e.g., the West Hopper from the East Hopper).
[Rule 62-4.070(3), F.A.C.]

EMISSIONS STANDARDS

P.5. Visible Emission Limitations for Emission Unit No. 042: The following emission points for this emission unit shall not exceed the maximum allowable visible emission limitation as shown in the table below when transferring wet fly ash:

Emission Point No.	Brief Description	Maximum Opacity %
1	Ship's/Barge's Hold(s) to Clamshell(s): Emissions from hold(s)	<20
2	Clamshells to West Hopper: Emissions from top of hopper	<20
3	Clamshells to East Hopper: Emissions from top of hopper	<20
4	West Hopper's Chute to Truck: Emissions from top of truck	<20
5	East Hopper's Chute to Truck: Emissions from top of truck	<20

[Rule 62-296.320(4)(b), F.A.C.]

P.6. Visible Emission Limitation for Emission Unit No. 043: Visible emissions from the Clinker & Wet Fly Ash Storage Building when trucks are being unloaded with wet fly ash inside the building shall not be equal to or exceed 20% opacity.
[Rule 62-296.320(4)(b), F.A.C.]

TESTING AND NOTIFICAITON REQUIREMENTS

P.7. Initial Visible Emission Compliance Tests: All* the emission points associated with these emission units shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted during the unloading of the first ship/barge not owned and/or operated by a different facility for Emission Unit No. 042 and the first 24-hour period of unloading trucks after the effective date of this permit for Emission Unit No. 043.

* Since ships/barges may have more than one (1) hold, visible emission testing of a single hold when it is actually transferring wet fly ash to the hopper(s) shall be considered acceptable provided the test was conducted when the highest opacity emissions can reasonably be expected to occur.

[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.]

P.8. Visible Emission Compliance Tests After the Initial Tests: No routine scheduled tests are required.

P.9. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

P.10. Test Method(s): Required tests shall be performed in accordance with the following reference method(s). Additionally, for Emission Unit No. 043 the required test shall be performed where the highest opacity emissions are expected to occur from the Clinker & Wet Fly Ash Storage Building.

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rule 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

P.11. Notifications: The permittee shall comply with the following:

a. The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[Rule 62-297.310(7)(a)9., F.A.C.]

b. Regarding Emission Unit No. 042: If the ships/barges unloading operations are owned and/or operated by a different facility, the permittee shall notify the Compliance Authority of the facility's name and the facility's effective air pollution permit number prior to initiating the unloading operation.
[Rule 62-4.070(3), F.A.C.]

RECORDS AND REPORTS

P.12. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.
b. A copy of the monthly log for the applicable emission unit as required in Specific Condition No. P.13. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

P.13. Recordkeeping Requirements: The permittee shall maintain the following records:

Emission Unit No. 042: MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring wet fly ash to the West and East Hoppers (do not double count).

c. Most recent consecutive 12-month total hours of transferring wet fly ash to the West and East Hoppers.

d. Total combined amount of wet fly ash transferred to the West and East Hoppers in tons.

e. Most recent consecutive 12-month total combined amount of wet fly ash transferred to the West and East Hoppers in tons.

Emission Unit No. 043: MONTHLY (when operated during the month)

f. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

g. Total hours of unloading wet fly ash from trucks (do not double count).

h. Most recent consecutive 12-month total hours of unloading trucks.

i. Amount of wet fly ash unloaded from trucks in tons.

j. Most recent consecutive 12-month total amount of wet fly ash unloaded from trucks in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection Q. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
044	Truck Loading of Clinker/Wet Fly Ash/Gypsum/Phosphate Rock for Export

Clinker, phosphate rock and/or wet fly ash from the Clinker & Wet Fly Ash Storage Building and gypsum located outside are loaded into trucks for export. Trucks are each loaded at a maximum rate of 300 tons/hr. based on a daily average.

A maximum of 400,000 tons of clinker and phosphate rock per any consecutive 12-month period is loaded into trucks.

A maximum of 150,000 tons of wet fly ash per any consecutive 12-month period is loaded into trucks.

A maximum of 86,400 tons of gypsum per any consecutive 12-month period is loaded into trucks.

PERFORMANCE RESTRICTIONS

Q.1. Permitted Capacity: The emission unit is limited as follows:

a. A maximum of 400,000 tons of clinker and phosphate rock per any consecutive 12-month period is loaded into trucks.

b. A maximum of 150,000 tons of wet fly ash per any consecutive 12-month period is loaded into trucks.

c. A maximum of 86,400 tons of gypsum per any consecutive 12-month period is loaded into trucks.

[Rule 62-210.200 (PTE), F.A.C.]

Q.2. Reasonable Precautions to Control Unconfined Particulate Matter: All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter. This provision is applicable to any source, including but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, and handling. Reasonable precautions shall include but are not limited to the following:

a. A DCE Dalamatic, Model DLM V20/10 F5, baghouse designated as BH7 and rated at 2,000 acfm and 1,959 dscfm shall be operating when loading trucks with clinker, phosphate rock, and/or wet fly ash in the Clinker & Wet Fly Ash Storage Building. Note, Baghouse BH7 also serves Emission Unit Nos. 025, 026, 041, and 047.

[Rule 62-296.320(4)(c), F.A.C.]

EMISSIONS STANDARDS

Q.3. Visible Emissions Limitations: Visible emissions from the trucks being loaded with gypsum and from Baghouse BH7 when loading trucks with clinker, phosphate rock, and/or wet fly ash in the Clinker & Wet Fly Ash Storage Building shall not be equal to or exceed 20% opacity. [Rule 62-296.320(4)(b), F.A.C.]

RECORDS

Q.4. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when trucks have been loaded)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of loading trucks (do not double/triple count, etc.).

c. Most recent total combined consecutive 12-month hours of loading trucks (do not double/triple count, etc.).

d. Total amount of each material (clinker, wet fly ash, gypsum, phosphate rock) loaded into trucks in tons.

e. Most recent consecutive 12-month total amount of each material (clinker, wet fly ash, gypsum, phosphate rock) loaded into trucks in tons.

f. Most recent consecutive 12-month combined total amount of clinker and phosphate rock loaded into trucks in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection R. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
045	Non-Produced Cement/Dry Fly Ash to Cement Storage Silo Nos. 1 and 2

Non-produced cement and dry fly ash in trucks or ships is transferred to Cement Storage Silo Nos. 1 and 2. The silos receive a maximum of 200,000 tons of non-produced cement per any consecutive 12-month period and a maximum of 250,000 tons of dry fly ash per any consecutive 12-month period. The silos only contain one material (produced cement, non-produced cement, or dry fly ash) at any one time.

Trucks transfer the non-produced cement or dry fly ash to FK Pump No. 2. FK Pump No. 2 then pneumatically transfers the material to Cement Storage Silo Nos. 1 and/or 2. The non-produced cement or dry fly ash is transferred at a maximum rate of 50 tons/hr. based on a daily average.

Trucks also transfer the non-produced cement or dry fly ash directly to Cement Storage Silo No. 1 (shorter silo) at a maximum rate of 35 tons/hr. based on a daily average.

Ships transfer the non-produced cement or dry fly ash via onboard ship pneumatic systems to Cement Storage Silo Nos. 1 and/or 2. This transfer is performed via existing pneumatic lines that run from the ship's berth to Cement Storage Silo Nos. 1 and/or 2. The onboard ship pneumatic systems connect to this existing pneumatic line to transfer the non-produced cement or dry fly ash at a maximum rate of 300 tons/hr. based on a daily average.

As an alternative, ships may transfer the non-produced cement or dry fly ash pneumatically to a truck at a maximum rate of 200 tons/hr. (based on filling a 26 ton capacity truck in approximately 8 minutes). If this alternative is used, only one (1) truck is loaded at any one (1) time. The ship comes equipped with its own emission controls that are part of a closed loop exhaust system that vents to the closed ship hold during the pneumatic truck transfer process. Thus, emissions from the ship during truck transfer are not expected to be vented to the atmosphere.

Emissions from FK Pump No. 2 are controlled by a Mikro Pulsaire, Model 320S-8TR-20, baghouse designated as BH11 and rated at 17,470 acfm and 13,300 dscfm. Note, Baghouse BH11 also serves Emission Unit Nos. 033 and 035.

Emissions from Cement Storage Silo No. 1 (shorter silo) are vented to Cement Silo No. 2 (taller silo). Emissions from Cement Storage Silo No. 2 are controlled by a BHA Pulse Jet Cartridge, Model 210101, baghouse designated as BH13 and rated at 4,500 acfm and 4,027 dscfm. The baghouse is located on top of Cement Storage Silo No. 2 (taller silo). Note, Baghouse BH13 also serves Emission Unit No. 036.

PERFORMANCE RESTRICTIONS

R.1. Permitted Capacity: This emission unit is limited as follows:

a. Cement Storage Silo Nos. 1 and 2 receive a maximum of 200,000 of non-produced cement per any consecutive 12-month period.

b. Cement Storage Silo Nos. 1 and 2 receive a maximum of 250,000 tons of dry fly ash per any consecutive 12-month period.

[Rule 62-210.200 (PTE), F.A.C.]

R.2. Operational Limitations: The permittee shall comply with the following:

a. Cement Storage Silo Nos. 1 and 2 silos shall only contain one material (produced cement (described above), non-produced cement, or dry fly ash) at any one time.

b. Since the silos may also contain produced cement, non-produced cement, or dry fly ash, the permittee shall maintain adequate records to document what material is in the silo(s) and that only one material (produced cement, non-produced cement, or dry fly ash) at a time is present in the silo(s).

c. The FK Pump No. 2 transferring non-produced cement or dry fly ash to Cement Storage Silo Nos. 1 and 2 and trucks transferring non-produced cement or dry fly ash to Cement Storage Silo No. 1 may occur simultaneously.

d. Transferring non-produced cement or dry fly ash via ship to Cement Storage Silo Nos. 1 and 2 will not occur simultaneously when the Cement Storage Silos are being loaded by trucks.

[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

R.3. Visible Emissions Limitation: The following emission points for this emission unit shall not exceed the maximum allowable visible emission limitation as shown in the table below when transferring non-produced cement or dry fly ash:

Emission Point No.	Brief Description	Maximum Opacity %
1	Emissions from Baghouse BH11	<20
2	Emissions from Baghouse BH13	<20

[Rule 62-296.320(4)(b), F.A.C.]

TESTING REQUIREMENTS

R.4. Initial Visible Emission Compliance Tests: All the emission points associated with this emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted within 60 days of the date the emission unit commences operation.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.]

R.5. Visible Emission Compliance Tests After the Initial Tests: No routine scheduled tests are required.

R.6. Test Requirements: Tests shall be conducted as follows:

a. In accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
b. Since transferring dry fly ash is considered when the highest emissions are expected to occur, if a test is conducted when transferring non-produced cement, then during the next transfer of dry fly ash a new visible emission test shall be conducted.

[Rule 62-297.310, F.A.C.]

R.7. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

R.8. Test Notifications: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

R.9. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate (truck or ship unloading rate) of non-production cement or dry fly ash in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. R.10. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

R.10. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY record the following when trucks or ships have been unloaded during the month.

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of receiving non-produced cement and dry fly ash from trucks and ships.

c. Most recent consecutive 12-month hours of receiving non-produced cement and dry fly ash from trucks and ships.

d. Total combined amount of non-produced cement unloaded from trucks and ships in tons.

e. Total combined amount of dry fly ash unloaded from trucks and ships in tons.

f. Most recent consecutive 12-month total combined amount of non-produced cement unloaded from trucks and ships in tons.

g. Most recent consecutive 12-month total combined amount of dry fly ash unloaded from trucks and ships in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection S. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
046	Truck Loading of Non-Produced Cement/Dry Fly Ash for Export

Non-produced cement and dry fly ash from Cement Storage Silo Nos. 1 and 2 are loaded into trucks. Under each silo is a truck loading station, where each station can only load one (1) truck a time and both stations can operate simultaneously. Truck loading Station No. 1 is located under Cement Storage Silo No. 1 (shorter silo) and Truck Loading Station No. 2 is located under Cement Storage Silo No. 2 (taller silo). Each truck loading station can load a maximum of 200 tons of either non-produced cement or dry fly ash based on a daily average. The total combined amount of non-produced cement that can be loaded into trucks is 200,000 tons per any consecutive 12-month period. The total combined amount of dry fly ash that can be loaded into trucks is 250,000 tons per any consecutive 12-month period. Emissions from the truck loading stations are controlled by a common Fuller Draco Plenum Pulse, Model 24-2-500, baghouse designated as BH14 and rated at 3,875 acfm and 3,734 dscfm. The baghouse is located on top of Cement Storage Silo No. 1 (shorter silo). Note, Baghouse BH14 also serves Emission Unit Nos. 037, 038, 039, 048, and 050.

PERFORMANCE RESTRICTIONS

S.1. Permitted Capacity: The truck loading stations are limited as follows:

a. The truck loading stations load trucks at a maximum total combined amount of 200,000 tons of non-produced cement per any consecutive 12-month period.
b. The truck loading stations load trucks at a maximum total combined amount of 250,000 tons of dry fly ash per any consecutive 12-month period.

[Rule 62-210.200 (PTE), F.A.C.]

S.2. Operational Limitation: The truck loading stations are limited as follows:

a. Each truck loading station can only load one (1) truck at a time.

b. Both truck loading stations can load trucks simultaneously.

[Rule 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

S.3. Visible Emissions Limitation: Visible emissions from Baghouse BH14 shall not be equal to or exceed 20% opacity.
[Rule 62-296.320(4)(b), F.A.C.]

TESTING REQUIREMENTS

S.4. Initial Visible Emission Compliance Tests: This emission unit shall be tested to demonstrate compliance with the visible emissions limitation. The test shall be conducted within 60 days of the date the emission unit commences operation and when both truck loading stations are operating simultaneously.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.]

S.5. Visible Emission Compliance Tests After the Initial Tests: No routine scheduled tests are required.

S.6. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Since transferring dry fly ash is considered when the highest emissions are expected to occur, if a test is conducted when transferring non-produced cement, then during the next transfer of dry fly ash a new visible emission test shall be conducted.
[Rule 62-297.310, F.A.C.]

S.7. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

S.8. Test Notifications: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

S.9. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. For each truck loading station the actual truck loading rate in tons/hr., which includes the material (non-produced cement or dry fly ash) loaded in the truck, for the test period.

b. For both truck loading stations the actual total combined truck loading rate in tons/hr. for the test period.

c. A copy of the monthly log as required in Specific Condition No. S.10. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

S.10. Recordkeeping Requirements: The permittee shall maintain the following records:

For each truck loading station when operating

MONTHLY

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of loading trucks (do not double count).

c. Most recent total combined consecutive 12-month hours of loading trucks (do not double count).

d. Total combined amount of non-produced cement loaded into trucks in tons.

e. Most recent consecutive 12-month total combined amount of non-produced cement into trucks in tons.

f. Total combined amount of dry fly ash loaded into trucks in tons.

g. Most recent consecutive 12-month total combined amount of dry fly ash loaded into trucks in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection T. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
047	Clinker from Clinker & Wet Fly Ash Storage Building Exported via Kinder Morgan System

Clinker in the Clinker & Wet Fly Ash Storage Building is transferred for export by ships at a maximum rate of 400 tons/hr. based on a daily average and 400,000 tons per any consecutive 12-month period.

Inside the Clinker & Wet Fly Ash Storage Building clinker is loaded into a hopper by a front-end loader. The hopper transfers the clinker to New Belt No. 1. New Belt No. 1 transfers the clinker outside the Clinker & Wet Fly Ash Storage Building to New Belt No. 2. Emissions from this activity are controlled by a DCE Dalamatic, Model DLM V20/10 F5, baghouse designated as BH7 and rated at 2,000 acfm and 1,959 dscfm. Note, Baghouse BH7 also serves Emission Unit Nos. 025, 026, 041, and 044.

New Belt No. 2 then transfers the clinker to a hopper located inside Kinder Morgan's Warehouse No. 2. The hopper then transfers (inside) the clinker to Belt No. 12. Belt No. 12 then transfers the produced cement to Belt No. 13A. Emissions from these three (3) emission points are controlled by a common Fuller baghouse designated as Baghouse BH2B rated at 12,000 acfm and 11,534 dscfm. Note, Baghouse BH2B also serves Emission Unit Nos. 025, 038, and 041.

Belt No. 13A then transfers the clinker to Belt F. Emissions from this transfer point are controlled by Baghouse KM-5 rated at 4,481 acfm and 4,307 dscfm.

Belt F then transfers the clinker to Belt G. Emissions from this transfer point are controlled by Baghouse KM-8 rated at 1,993 acfm and 1,916 dscfm.

Belt G then transfers (out of scale house) clinker to the West Gantry's first of two belts. This transfer point is uncontrolled and its emissions are considered fugitive emissions.

The West Gantry's first belt then transfers the clinker to the West Gantry's second of two belts. The West Gantry's second belt then transfers the clinker to the West Gantry, which then transfers the clinker to a ship. Emissions from these three (3) transfer points are controlled by a common BHA Pulse Jet Cartridge, Model 505-4320, baghouse designated as Baghouse BH1A and rated at 15,000

acfm and 14,417 dscfm. Note, Baghouse BH1A also serves Emission Unit Nos. 025, 038, 039, 041, 048, 049, and 050.

Belt G can also transfer (out of scale house) clinker to the East Gantry's Belt H. Emissions from this transfer point are controlled by Baghouse KM-6 rated at 2,350 acfm and 2,259 dscfm.

Belt H then transfers the clinker to the East Gantry, which then transfers the clinker to a ship. Emissions from these two (2) transfer points are controlled by a common BHA Pulse Jet Cartridge, Model 505-4320, baghouse designated as Baghouse BH1B rated at 15,000 acfm and 14,417 dscfm. Note, Baghouse BH1B also serves Emission Unit Nos. 025, 038, 040, 041, 048, and 051.

The West Gantry and East Gantry may load ships with clinker simultaneously.

PERFORMANCE RESTRICTIONS

T.1. Permitted Capacity: Clinker in the Clinker & Wet Fly Ash Storage Building is transferred for export by ships at a maximum rate of 400,000 tons per any consecutive 12-month period. [Rule 62-210.200 (PTE), F.A.C.]

EMISSIONS STANDARDS

T.2. Visible Emissions Limitation: The following emission points for this emission unit shall not exceed the maximum allowable visible emission values as shown in the table below when transferring clinker:

Emission Point No.	Brief Description	Maximum Opacity %
1	Emissions from Baghouse BH7	<20
2	Emissions from Baghouse BH2B	<20
3	Emissions from Baghouse KM-5	<20
4	Emissions from Baghouse KM-8	<20
5	Emissions from Baghouse KM-6	<20
6	Emissions from Baghouse BH1A	<20
7	Emissions from Baghouse BH1B	<20
8	Fugitive emissions from Belt G to West Gantry's first of two belts (out of scale house).	<20

[Rule 62-296.320(4)(b), F.A.C.]

TESTING REQUIREMENTS

T.3. Initial Visible Emission Compliance Tests: All the emission points associated with the emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted during the loading of the first ship after the effective date of this permit. [Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

T.4. Visible Emission Compliance Tests After Initial Tests: No routine scheduled tests are required.

T.5. Test Requirements: Tests shall be conducted as follows:

a. In accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.

b. Testing of Baghouses BH KM-6 and BH1B shall be conducted when the West Gantry is not operating.

c. Testing of Baghouse BH1A shall be conducted when the East Gantry is not operating.

[Rule 62-297.310, F.A.C.]

T.6. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

T.7. Test Notifications: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

T.8. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. T.9. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

T.9. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring clinker.

c. Most recent consecutive 12-month total hours of transferring clinker.

d. Amount of clinker transferred in tons.

e. Most recent consecutive 12-month total amount of clinker transferred in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection U. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
048	Non-Produced Cement Exported via Kinder Morgan System

Non-produced cement in Cement Storage Silo Nos. 1 and/or 2 is transferred for export by ships at a maximum rate of 400 tons/hr. based on a daily average and 200,000 tons per any consecutive 12-month period.

The non-produced cement in each silo is first transferred to its own air slide. Emissions from these two (2) transfer points are controlled by a common Fuller Draco Plenum Pulse, Model 24-2-500,

baghouse designated as BH14 and rated at 3,875 acfm and 3,734 dscfm. Note, Baghouse BH14 also serves Emission Unit Nos. 037, 038, 039, 046, and 050.

The air slides then transfer the non-produced cement to New Belt No. 2 (different than Belt No. 2 in E.U. 025). The emissions from the two (2) transfer points associated with the air slides to New Belt No. 2 are controlled a by a common BHA Pulse Jet Cartridge, Model 505-4322, baghouse designated as Baghouse BH2A rated at 15,000 acfm and 14,417 dscfm. Note, Baghouse BH2A also serves Emission Unit Nos. 025, 038, and 041.

New Belt No. 2 then transfers the non-produced cement to a hopper located inside Kinder Morgan's Warehouse No. 2. The hopper then transfers (inside) the non-produced cement to Belt No. 12. Belt No. 12 then transfers the non-produced cement to Belt No. 13A. Emissions from these three (3) emission points are controlled by a common Fuller baghouse designated as Baghouse BH2B rated at 12,000 acfm and 11,534 dscfm. Note, Baghouse BH2B also serves Emission Unit Nos. 025, 038, 041, and 047.

Belt No. 13A then transfers the non-produced cement to Belt F. Emissions from this transfer point are controlled by Baghouse KM-5 rated at 4,481 acfm and 4,307 dscfm.

Belt F then transfers the non-produced cement to Belt G. Emissions from this transfer point are controlled by Baghouse KM-8 rated at 1,993 acfm and 1,916 dscfm.

Belt G then transfers (out of scale house) non-produced cement to the West Gantry's first of two belts. This transfer point is uncontrolled and its emissions are considered fugitive emissions.

The West Gantry's first belt then transfers the non-produced cement to the West Gantry's second of two belts. The West Gantry's second belt then transfers the non-produced cement to the West Gantry, which then transfers the non-produced cement to a ship. Emissions from these three (3) transfer points are controlled by a common BHA Pulse Jet Cartridge, Model 505-4320, baghouse designated as Baghouse BH1A and rated at 15,000 acfm and 14,417 dscfm. Note, Baghouse BH1A also serves Emission Unit Nos. 025, 038, 039, 041, 047, 049, and 050.

Belt G can also transfer (out of scale house) non-produced cement to the East Gantry's Belt H. Emissions from this transfer point are controlled by Baghouse KM-6 rated at 2,350 acfm and 2,259 dscfm.

Belt H then transfers the non-produced cement to the East Gantry, which then transfers the non-produced cement to a ship. Emissions from these two (2) transfer points are controlled by a common BHA Pulse Jet Cartridge, Model 505-4320, baghouse designated as Baghouse BH1B rated at 15,000 acfm and 14,417 dscfm. Note, Baghouse BH1B also serves Emission Unit Nos. 025, 038, 040, 041, 047, and 051.

The West Gantry and East Gantry may load ships with non-produced cement simultaneously.

U.1. Permitted Capacity: Non-produced cement in Cement Storage Silo Nos. 1 and/or 2 is transferred for export by ships at a maximum rate of 200,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

U.2. Operational Limitations: Since the storage silos may also contain produced cement or dry fly ash, the permittee shall maintain adequate records to document what material is in the silo(s) and that only one material (produced cement, non-produced cement, or dry fly ash) at a time is present in the silo(s).
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

U.3. Visible Emissions Limitation: The following emission points for this emission unit shall not exceed the maximum allowable visible emission values as shown in the table below when transferring clinker:

Emission Point No.	Brief Description	Maximum Opacity %
1	Emissions from Baghouse BH14	<20
2	Emissions from Baghouse BH2A	<20
3	Emissions from Baghouse BH2B	<20
4	Emissions from Baghouse KM-5	<20
5	Emissions from Baghouse KM-8	<20
6	Emissions from Baghouse KM-6	<20
7	Emissions from Baghouse BH1A	<20
8	Emissions from Baghouse BH1B	<20
9	Fugitive emissions from Belt G to West Gantry's first of two belts (out of scale house).	<20

[Rule 62-296.320(4)(b), F.A.C.]

TESTING REQUIREMENTS

U.4. Initial Visible Emission Compliance Tests: All the emission points associated with the emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted during the loading of the first ship after the effective date of this permit.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

U.5. Visible Emission Compliance Tests After Initial Tests: No routine scheduled tests are required.

U.6. Test Requirements: Tests shall be conducted as follows:

a. In accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.

b. Testing of Baghouses BH KM-6 and BH1B shall be conducted when the West Gantry is not operating.

c. Testing of Baghouse BH1A shall be conducted when the East Gantry is not operating.

[Rule 62-297.310, F.A.C.]

U.7. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

U.8. Test Notifications: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

U.9. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. U.10. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

U.10. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring non-produced cement.

c. Most recent consecutive 12-month total hours of transferring non-produced cement.

d. Amount of non-produced cement transferred in tons.

e. Most recent consecutive 12-month total amount of non-produced cement transferred in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection V. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
049	Clinker from Clinker Storage Silo No. 1 Exported via New Diagonal Belt System

Clinker from Clinker Storage Silo No. 1 will be transferred to a ship at a maximum rate of 400 tons/hr. based on a daily average and 400,000 tons per any consecutive 12-month period. The clinker in Clinker Storage Silo No. 1 is transferred to a conveyor belt located under the silo. The conveyor belt then transfers the clinker to a New Diagonal Belt No. 3. Emissions from these two (2) transfer points are controlled by a common Fuller Draco Plenum Pulsaire, Model 24-2-500, baghouse designated as BH9 and rated at 3,179 acfm and 3,000 dscfm. Note, Baghouse BH9 also serves Emission Unit Nos. 030, 031, 032, and 033.

New Diagonal Belt No. 3 then transfers the clinker to New Stacker Belt No. 4, which then transfers the clinker to a ship. Emissions from these two (2) transfer points are controlled by a common BHA Pulse Jet Cartridge, Model 505-4320, baghouse designated as Baghouse BH1A and rated at 15,000 acfm and 14,417 dscfm. Note, Baghouse BH1A also serves Emission Unit Nos. 025, 038, 039, 041, 047, 048, and 050.

PERFORMANCE RESTRICTIONS

V.1. Permitted Capacity: Clinker in Clinker Silo No. 1 is transferred for export by ships at a maximum rate of 400,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

EMISSIONS STANDARDS

V.2. Visible Emissions Limitation: The following emission points for this emission unit shall not exceed the maximum allowable visible emission values as shown in the table below when transferring clinker:

Emission Point No.	Brief Description	Maximum Opacity %
1	Emissions from Baghouse BH9	<20
2	Emissions from Baghouse BH1A	<20

[Rule 62-296.320(4)(b), F.A.C.]

TESTING REQUIREMENTS

V.3. Initial Visible Emission Compliance Tests: All the emission points associated with the emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted during the loading of the first ship after the effective date of this permit.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

V.4. Visible Emission Compliance Tests After Initial Tests: No routine scheduled tests are required.

V.5. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
[Rule 62-297.310, F.A.C.]

V.6. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

V.7. Test Notifications: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[40 CFR 60.7(a)(6) and Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

V.8. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. V.9. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

V.9. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring clinker.

c. Most recent consecutive 12-month total hours of transferring clinker.

d. Amount of clinker transferred in tons.

e. Most recent consecutive 12-month total amount of clinker transferred in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection W. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
050	Non-Produced Cement/Dry Fly Ash Exported via Pneumatic Conveyance to Ship

Non-produced cement and dry fly ash in Cement Storage Silo Nos. 1 and/or 2 is transferred for export by pneumatic conveyance to ships at a maximum rate of 125 tons/hr. based on a daily average. The silos transfer a maximum of 200,000 tons of non-produced cement per any consecutive 12-month period and a maximum of 250,000 tons of dry fly ash per any consecutive 12-month period.

The non-produced cement or dry fly in each silo is first transferred to its own air slide. The air slides then each transfer the non-produced cement or dry fly ash to a hopper, which then transfers the non-produced cement to a FK pump. Emissions from these five (5) transfer points are controlled by a common Fuller Draco Plenum Pulse, Model 24-2-500, baghouse designated as BH14 and rated at 3,875 acfm and 3,734 dscfm. Note, Baghouse BH14 also serves Emission Unit Nos. 037, 038, 039, 046, and 048.

The FK pump then transfers the non-produced cement through a pneumatic pipe line to a ship. Emissions from the ship are controlled by a BHA Pulse Jet Cartridge, Model 505-4320, baghouse designated as Baghouse BH1A and rated at 15,000 acfm and 14,417 dscfm. Note, Baghouse BH1A also serves Emission Unit Nos. 025, 038, 039, 041, 048, and 049.

PERFORMANCE RESTRICTIONS

W.1. Permitted Capacity: Non-produced cement in Cement Storage Silo Nos. 1 and/or 2 is transferred for export by pneumatic conveyance to ships at a maximum rate of 200,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

W.2. Permitted Capacity: Dry Fly Ash in the Cement Storage Silo Nos. 1 and/or 2 is transferred for export by pneumatic conveyance to ships at a maximum rate of 250,000 tons per any consecutive 12-month period.
[Rule 62-210.200 (PTE), F.A.C.]

W.3. Operational Limitations: Since the storage silos may also contain produced cement or dry fly ash, the permittee shall maintain adequate records to document what material is in the silo(s) and that only one material (produced cement, non-produced cement, or dry fly ash) at a time is present in the silo(s).
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

W.4. Visible Emissions Limitation: The following emission points for this emission unit shall not exceed the maximum allowable visible emission values as shown in the table below when transferring clinker:

Emission Point No.	Brief Description	Maximum Opacity %
1	Emissions from Baghouse BH14	<20
2	Emissions from Baghouse BH1A	<20

[Rule 62-296.320(4)(b), F.A.C.]

TESTING REQUIREMENTS

W.5. Initial Visible Emission Compliance Tests: All the emission points associated with the emission unit shall be tested to demonstrate compliance with the visible emissions limitations. The tests shall be conducted during the loading of the first ship after the effective date of this permit.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

W.6. Visible Emission Compliance Tests After Initial Tests: No routine scheduled tests are required.

W.7. Test Requirements: Tests shall be conducted as follows:

a. In accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.

b. Since transferring dry fly ash is considered when the highest emissions are expected to occur, if a test is conducted when transferring non-produced cement, then during the next transfer of dry fly ash a new visible emission test shall be conducted.

[Rule 62-297.310, F.A.C.]

W.8. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

W.9. Test Notifications: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

W.10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. W.11. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

W.11. Recordkeeping Requirements: The permittee shall maintain the following records:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of transferring non-produced cement and dry fly ash.

c. Most recent consecutive 12-month total hours of transferring non-produced cement and dry fly ash.

d. Amount of non-produced cement transferred in tons.

e. Most recent consecutive 12-month total amount of non-produced cement transferred in tons.

f. Amount of dry fly ash transferred in tons.

g. Most recent consecutive 12-month amount of dry fly ash transferred in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection X. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
051	Non-Produced Cement/Dry Fly Ash Exported via Trucks to Ship

Non- produced cement and dry fly ash that has been loaded into trucks at the two (2) truck loading stations associated with Cement Storage Silo Nos. 1 and 2 is transferred to a ship. Up to 12 trucks from the two (2) truck loading stations can be connected and unloaded simultaneously to a closed pneumatic manifold/plate system that has up to 12 input lines. Although each truck can transfer non-produced cement or dry fly ash at a maximum rate of 30 tons/hr., the manifold/plate system transfers the non-produced cement or dry fly ash at a maximum total combined rate of 300 tons/hr. The manifold/plate system then transfers the non-produced cement to a single closed line that loads a ship. The emissions from the ship are controlled by a BHA Pulse Jet Cartridge, Model 505-4320, baghouse designated as Baghouse BH1B rated at 15,000 acfm and 14,417 dscfm. The maximum amount of non-produced cement transferred is 200,000 tons per any consecutive 12-month period. The maximum amount of dry fly ash transferred is 250,000 tons per any consecutive 12-month period. Note, Baghouse BH1B also serves Emission Unit Nos. 025, 038, 040, 041, 047, and 048.

PERFORMANCE RESTRICTIONS

X.1. Permitted Capacity: This emission unit is limited as follows:

a. The manifold/plate system's single closed line used to load a ship with non-produced cement has a maximum total combined transfer rate of 200,000 tons per any consecutive 12-month period.

b. The manifold/plate system's single closed line used to load a ship with dry fly ash has a maximum total combined transfer rate of 250,000 tons per any consecutive 12-month period.

[Rule 62-210.200(PTE), F.A.C.]

X.2. Operational Limitations: The emission unit shall comply with the following:

a. The manifold/plate system shall not unload more than 12 trucks simultaneously.

b. Non-produced cement and dry fly ash can not be unloaded from trucks and/or be transferred to a ship simultaneously.

[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

X.3. Visible Emissions Limitation: This emission unit shall not exceed the maximum allowable visible emission value as shown in the table below:

Brief Description	Maximum Opacity %
Emissions from Baghouse BH1B	<20

[Rule 62-296.320(4)(b), F.A.C.]

TESTING REQUIREMENTS

X.4. Initial Visible Emission Compliance Test: This emission unit shall be tested to demonstrate compliance with the visible emissions limitation. The test shall be conducted during the loading of the first ship after the effective date of this permit.
[Rules 62-4.070(3), 62-297.310(4)(a)2., and 62-297.310(7)(a)1., F.A.C.; 40 CFR 60.8]

X.5. Visible Emission Compliance Tests After Initial Test: No routine scheduled tests are required.

X.6. Test Requirements: Tests shall be conducted as follows:

a. In accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.

b. Since transferring dry fly ash is considered when the highest emissions are expected to occur, if a test is conducted when transferring non-produced cement, then during the next transfer of dry fly ash a new visible emission test shall be conducted.

[Rule 62-297.310, F.A.C.]

X.7. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

Method(s)	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.310(7)(b), F.A.C.; and Appendix A of 40 CFR 60]

X.8. Test Notifications: The permittee shall notify the Compliance Authority at least 15 days prior to the test date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
{Permitting Note: The notification should also include the relevant emission Unit ID No(s)., test method(s) to be used, and pollutants to be tested.}
[Rule 62-297.310(7)(a)9., F.A.C.]

RECORDS AND REPORTS

X.9. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. All test reports shall also include the following:

a. The actual transfer rate in tons/hr. for the test period.

b. A copy of the monthly log as required in Specific Condition No. X.10. for the month the test was conducted.

[Rule 62-297.310(8), F.A.C.]

X.10. Recordkeeping Requirements: The permittee shall maintain the following records:

For the manifold/plate unloading system:

MONTHLY (when operated during the month)

a. Facility name, Facility ID (0810011), Emission Unit ID No., Date (month/day/year)

b. Total hours of unloading trucks (do not double count).

c. Most recent consecutive 12-month total hours of unloading trucks.

d. Total amount of non-produced cement unloaded (transferred to ship) in tons.

e. Most recent consecutive 12-month total amount of non-produced cement unloaded (transferred to ship) in tons.

f. Total amount of dry fly ash unloaded (transferred to ship) in tons.

g. Most recent consecutive 12-month total amount of dry fly ash unloaded (transferred to ship) in tons.

Monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Subsection Y. - Facility-Wide Conditions

Y.1 Allowable Hours of Operation: The hours of operation of all the emission units at this facility are not limited (8,760 hours per year).
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

Y.2. Reasonable Precautions to Control Unconfined Particulate Matter: All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter. This provision is applicable to any source, including but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, and handling. Reasonable precautions shall include but are not limited to the following:

a. All conveyor belts shall have a 180 degree top enclosure, except the portion of Belt No. 7 where the West Hopper and East Hopper travel east and west above Belt No. 7.

b. Unconfined emissions associated with the on-site traffic (trucks and front-end loaders) are controlled by limiting vehicle speed to below 10 miles per hour, within the facility grounds.

c. Curtail operations or cease operations when necessary.

d. Sweep roadways and other paved areas as necessary to prevent particulate matter from becoming airborne.

e. The Clinker & Wet Fly Ash Storage Building shall have enclosed openings by utilizing tarpaulins and other sheathing materials to the best extent practical.

f. Open areas of ship's holds during loading of material shall be covered utilizing tarpaulins or other similar covering materials to the best extent practical.

[Rules 62-4.070(3) and 62-296.320(4)(c), F.A.C.]

Y.3. Facility-Wide Materials Received and Recordkeeping Requirements: Since some of the materials may be received by different emission units and methods (e.g., trucks, ship, and railcar), the permittee is limited to the maximum amount of the following materials received and recordkeeping requirements:

a. Receive a maximum total of 1,264,000 tons of clinker per any consecutive 12-month period. {Permitting Note: Although a maximum of 864,000 tons of clinker per any consecutive 12-month period can be used to make produced cement, the additional 400,000 tons of clinker per any consecutive 12-month period is for exporting and not used for producing produced cement on-site. Since the clinker as stored in the Clinker & Wet Fly Ash Storage Building is not segregated into Clinker Storage Piles for Produced Cement and Clinker Storage Piles for Exporting, all the clinker received is subject to Title 40, Code of Federal Regulation (CFR), Part 60, Subpart F- Standards of Performance for Portland Cement Plants, which is adopted by reference in Rule 62-204.800(8), F.A.C.}

b. Monthly record the total amount of clinker received in tons.

c. Monthly record the total amount of clinker received for the most recent consecutive 12-month period.

d. Receive a maximum total of 150,000 tons of wet fly ash per any consecutive 12-month period.

e. Monthly record the total amount of wet fly ash received in tons.

f. Monthly record the total amount of wet fly ash received for the most recent consecutive 12-month period.

The monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Y.4. Facility-Wide Materials Exported and Recordkeeping Requirements: Since some of the materials may be exported by different emission units and methods (e.g., trucks and ship) and not directly or indirectly limited by other emission unit limitations, the permittee is limited to the maximum amount of the following material exported and recordkeeping requirements:

a. Export a maximum total of 400,000 tons of clinker per any consecutive 12-month period.

b. Monthly record the total amount of clinker exported in tons.

c. Monthly record the total amount of clinker exported for the most recent consecutive 12-month period.

The monthly records shall be completed by the end of the following month. These records shall be maintained at the facility for at least 3 years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

Y.5. Reactivation Notification Requirements for Emission Unit Nos. 025, 028, 029, 030, 031, 032, 033, 034, 035, 036, and 037:

E.U. ID No.	Description
025	Clinker received by Ships
028	Gypsum received by Ship to Hoppers to Trucks
029	Gypsum/Limestone/Slag received by Trucks
030	Clinker from Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 1

E.U. ID No.	Description
031	Clinker from Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 2
032	Gypsum from Storage Piles to Gypsum Storage Silo
033	Finish Mill No. 1
034	Limestone/Slag to Gypsum Belt for Finish Mill No. 2
035	Finish Mill No. 2
036	Cement Storage Silo Nos. 1 and 2
037	Truck Loading of Produced Cement

The permittee of these emission units above which has a valid air operation permit and has been shut down more than one (1) year, shall notify the Compliance Authority in writing of each emission unit's intended reactivation (startup) a minimum of 60 days prior to the intended startup date.

a. The notification shall include information as to the startup date, anticipated emission rates or pollutants released, changes to processes or control devices which will result in changes to emission rates, and any other conditions which may differ from the valid outstanding operation permit.

b. If, due to an emergency, a startup date is not known 60 days prior thereto, the owner shall notify the Compliance Authority as soon as possible after the date of such startup is ascertained.

c. The notification shall include a statement that the reactivation does not constitute any modification or reconstruction pursuant to Chapter 62-210, F.A.C. or any federal regulation adopted by reference at Rule 62-204.800, F.A.C.

[Rules 62-210.300(2)(a)4. and 62-210.300(5), F.A.C.]

Y.6. Notification Requirement of Actual Reactivation Dates for Emission Unit Nos. 025, 028, 029, 030, 031, 032, 033, 034, 035, 036, and 037:

E.U. ID No.	Description
025	Clinker received by Ships
028	Gypsum received by Ship to Hoppers to Trucks
029	Gypsum/Limestone/Slag received by Trucks
030	Clinker from Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 1
031	Clinker from Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 2
032	Gypsum from Storage Piles to Gypsum Storage Silo

E.U. ID No.	Description
033	Finish Mill No. 1
034	Limestone/Slag to Gypsum Belt for Finish Mill No. 2
035	Finish Mill No. 2
036	Cement Storage Silo Nos. 1 and 2
037	Truck Loading of Produced Cement

The permittee shall notify the Compliance Authority in writing of the actual reactivation date of each emission unit above within five (5) business days of that date.
[Rule 62-210.300(2)(a)4., F.A.C.]

Y.7. Notification Requirement Prior to Commencing Operation for Emission Unit Nos. 025, 026, 027, 030, 031, 032, 033, 034, 035, 041, 043, 044, and 047:

E.U. ID No.	Description
025	Clinker received by Ships
026	Clinker received by Railcars
027	Clinker received by Trucks
030	Clinker from Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 1
031	Clinker from Clinker & Wet Fly Ash Storage Building to Clinker Storage Silo No. 2
032	Gypsum from Storage Piles to Gypsum Storage Silo
033	Finish Mill No. 1
034	Limestone/Slag to Gypsum Belt for Finish Mill No. 2
035	Finish Mill No. 2
041	Wet Fly Ash and Phosphate Rock received by Ships to Clinker & Wet Fly Ash Storage Building
043	Trucks with Wet Fly Ash to Clinker & Wet Fly Ash Storage Building
044	Truck Loading of Clinker/Wet Fly Ash/Gypsum/Phosphate Rock for Export
047	Clinker form Clinker & Wet Fly Ash Storage Building Exported via Kinder Morgan System

At least 15 days prior to commencing operation of each emission unit above, the permittee shall notify the Compliance Authority in writing of the anticipated commencing operation date and the affected Emission Unit Number.
{Permitting Note: The purpose of the notifications is for the Department to have the opportunity to inspect and verify the affected emission unit's equipment (e.g., conveyor belts,

transfer towers, storage building, etc.) is properly maintained and in good working order prior to commencing operation.}
{Rule 62-4.070(3), F.A.C.]

Y.8. Notification Requirement of Commencing (Initial) Operation for Emission Unit Nos. 026, 027, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, and 051:

E.U. ID No.	Description
026	Clinker received by Railcars
027	Clinker received by Truck
038	Produced Cement Exported via Kinder Morgan System
039	Produced Cement Exported via Pneumatic Conveyance to Ship
040	Produced Cement Exported via Trucks to Ship
041	Wet Fly Ash and Phosphate Rock received by Ships to Clinker & Wet Fly Ash Storage Building
042	Wet Fly Ash received by Ship to Hoppers to Trucks
043	Trucks with Wet Fly Ash to Clinker & Wet Fly Ash Storage Building
044	Truck Loading of Clinker/Wet Fly Ash/Gypsum/Phosphate Rock for Export
045	Imported Non-Produced Cement/Dry Fly Ash to Cement Storage Silo Nos. 1 and 2
046	Truck Loading of Non-Produced Cement/Dry Fly Ash for Export
047	Clinker from Clinker & Wet Fly Ash Storage Building Exported via Kinder Morgan System
048	Non-Produced Cement Exported via Kinder Morgan System
049	Clinker from Clinker Storage Silo No. 1 Exported via New Diagonal Belt System
050	Non-Produced Cement/Dry Fly Ash Exported via Pneumatic Conveyance to Ship
051	Non-Produced Cement/Dry Fly Ash Exported via Truck to Ship

Within five (5) business day of commencing (initial) operation of each emission unit above, the permittee shall notify the Compliance Authority in writing of the date the emission unit commenced operation.
[Rule 62-4.070(3), F.A.C.]