Lafarge North America, Inc.
Palatka Plant
Facility ID No.: 1070039
Putnam County

Title V Air Operation Permit Revision

FINAL Permit No.: 1070039-017-AV
Revision to Title V Air Operation Permit No.: 1070039-016-AV

<u>Permitting Authority and Compliance Authority:</u>

Florida Department of Environmental Protection
Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32056-7590
Telephone: 904-807-3300
Fax: 904-448-4363

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Permittee:
Lafarge North America, Inc.
886 North, Highway 17
Palatka, Florida 32177

FINAL Permit No.: 1070039-017-AV
Facility ID No.: 1070039
SIC No(s).: 32, 3275
Project: Title V Air Operation Permit Revision

This permit revision is being issued for the purpose of incorporating the terms and conditions of the Air Construction Permit, No. 1070039-015-AC, to increase the air flow rate for the existing End Trim Dust Collector (EP-016). Lower allowable PM emission limits for the Imp Mill Flash Calciner System A (EU004), Imp Mill Flash Calciner System B (EU019), the Imp Mill Cooling System B (EU020), and EU008: The existing Dunnage Machine was replaced with a new machine to improve automation of the process at the Palatka facility. This facility is located at 886 North, Highway 17, Palatka, Putnam County; UTM Coordinates: Zone 17, 438.00 km East and 3290.00 km North; Latitude: 29°44′25″ North and Longitude: 81°38′28″ West.

This Title V Air Operation Permit Revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:
Appendix I-1, List of Insignificant Emissions Units and/or Activities.
Appendix U-1, List of Unregulated Emissions Units and/or Activities
APPENDIX TV-6, TITLE V CONDITIONS version dated 06/23/06
40 CFR 60, Subpart A- General Provisions
40 CFR 60, Subpart OOO- Standards of Performance for Nonmetallic mineral Processing Plants
40 CFR Part 60, Subpart UUU—Standards of Performance for Calciners and Dryers in Mineral Industries

Initial Effective Date: May 25, 2007
Revision Effective Date: November 3, 2010
Renewal Application Due Date: December 2, 2011
Expiration Date: May 30, 2012

Christopher L. Kirts. P.E.
District Air Program Administrator

CLK:lm

Section I. Facility Information.

Subsection A. Facility Description.

This facility is a fully integrated synthetic wallboard forming facility that consists of major activities areas such as: Raw material storage/processing, Cage Mill Dryer system and Wallboard processing.
Also included in this permit are miscellaneous unregulated emissions units and/or activities.

Based on the initial Title V Air Operation Permit application received 11-01-2001, this facility **is not** a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

E.U.	Description	Emission Point	Filter System
001	FGD Surge Bin #1 (55-ton Bin)	EP-001	FGD Surge Bin Filter
002	Cage Mill Dryer System #1	EP-002	Dust Collector
003	Imp Mill Feed Silo A (170-ton Bin)	EP-002/023	Dust Collector/Bin Filter
004	Imp Mill Flash Calciner System A	EP-004	Dust Collector
005	Imp Mill Air Cooling System A	EP-005	System Collector
006	Stucco Silo A (690-ton Bin)	EP-006	Silo Filter
007	Starch Silo	EP-007	Starch Silo Vent Filter
008	Sawing Systems/Dunnage Machines	EP-016	End Trim Dust Collector
009	Norba Grinder	EP-009	Norba Dust Collector
010	Belt Conveyors and Bucket Elevators.	Fugitive	None
011	Emergency Live Bottom Feed Hopper.	EP-011	BC-9 Nuisance Dust Collector
013	Wallboard Dryer (4 Natural Gas Burners)	EP-013A	None
		EP-013B	None
014	Ball Mills	EP-014	BMA Dust Collector
016	Landplaster Bin	EP-016	End Trim Dust Collector
017	Additives System and Pin Mixer	EP-017	Nuisance Dust Collector
018	Imp Mill Feed Silo B (170-ton Bin)	EP-002/023	Dust Collector/Bin Filter
019	Imp Mill Flash Calciner System B	EP-019	Dust Collector
020	Imp Mill Cooling System B	EP-020	System Filter
021	Stucco Silo B (690-ton Bin)	EP-021	Silo Filter
022	FGD Surge Bin (55-ton Bin) #2	EP-022	FGD Surge Bin Filter
023	Cage Mill Dryer System #2	EP-023	Dust Collector
024	Reclaim Processing and Screening	EP-024	None
025	IMP Mill Feed Silo C	EP-002/023	Fabric Filter
026	IMP Mill Flash Calciner System C	EP-026	Fabric Filter
027	Imp Mill Air Cooling System C	EP-027	Fabric Filter

EU003, 018 & 025: Normal operation for each of these EPs is to vent into EU002, which requires a yearly EPA Method 5 and 9. Annually **EPA Method 22** is required for these units when they are operated such that emissions are vented apart from EU002 (inside of the building).
[40 CFR 60.675(d)]

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Table 1-1, Summary of Air Pollutant Standards and Terms
Table 2-1, Summary of Compliance Requirements
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History/ID Number Changes
Statement of Basis

These documents are on file with the permitting authority:

Initial Title V Air Operation Permit issued May 22, 2002
Air Construction Permit 1070039-007-AC issued June 18, 2003
Title V Revision 1070039-006-AV issued August 26, 2003
Construction/Title V Revision application received September 13, 2004
Construction/Title V Revision application received November 16, 2005
Title V Permit Renewal Application Received November 28, 2006
Air Construction Permit 1070039-014-AC issued April 22, 2009
Air Construction Permit 1070039-015-AC issued October 12, 2009
Title V Revision 1070039-016-AV issued June 25, 2010
Title V Revision application received June 9, 2010

SECTION II. FACILITY-WIDE CONDITIONS.

The following conditions apply facility-wide:

1. APPENDIX TV-6, TITLE V CONDITIONS, is a part of this permit.
{Permitting note: APPENDIX TV-6, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}

2. [Not federally enforceable.] General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]

3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]

4. Prevention of Accidental Releases (Section 112(r) of CAA).
a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center
P. O. Box 10162
Fairfax, VA 22038
Telephone No. 703/227-7650

and,
b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.
[40 CFR 68]

5. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), F.A.C.]

6. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.
[Rules 62-213.440(1), 62-213.430(6) and 62-4.040(1)(b), F.A.C.]

7. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
[Rule 62-296.320(1), F.A.C]

8. Emissions of Unconfined Particulate Matter. Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following requirements (see Condition 57. of APPENDIX TV-6, TITLE V CONDITIONS):

a. the application of wetting agents to the gypsum stockpile, as needed
b. the use of enclosed, covered, and semi-enclosed conveyors as needed
c. maintaining paved parking areas
d. reduced speed for vehicular traffic
e. and the implementation of good housekeeping practices.

[Rule 62-296.320(4)(c)2., F.A.C.; and, 1070039-001-AC]

9. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.
[Rule 62-213.440, F.A.C.]

10. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., F.A.C., shall be submitted to the Department and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), F.A.C.
[Rules 62-213.440(3) and 62-213.900, F.A.C.]

{Permitting Note: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of APPENDIX TV-6, TITLE V CONDITIONS)}

11. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Northeast District Office.

Department of Environmental Protection
Northeast District Office
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256
Telephone: 904/807-3200
Fax: 904/448-4366

12. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air and EPCRA Enforcement Branch
Air Enforcement Section
61 Forsyth Street
Atlanta, Georgia 30303-8960
Telephone: 404/562-9155; Fax: 404/562-9163

13. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.
[Rule 62-213.420(4), F.A.C.]

SECTION III. EMISSIONS UNIT(S) AND CONDITIONS.

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

The following emission units are subject to NSPS requirements/standards in 40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants, and 40 CFR 60 (Subpart A, Standards of Performance for New Stationary Sources – General Provisions) adopted and incorporated by reference in Rule 62-204.800, F.A.C.:

EU	BRIEF DESCRIPTION	EMISSION POINT
001	FGD Surge Bin #1 (55-ton)	EP-001 - Indoor
003	Imp Mill Feed Silo A	EP-002/023
004	Imp Mill Flash Calciner System A	EP-004
009	Norba Grinder	EP-009 - Indoor
010	Belt Conveyors and Bucket Elevators	Fugitive
011	Emergency Live Bottom Feed Hopper	EP-011- Indoor
014	Ball Mills	EP-014 - Indoor
016	Landplaster Bin	EP-016 - Indoor
018	Imp Mill Feed Silo B	EP-002/023
019	Imp Mill Flash Calciner System B	EP-019
022	FGD Surge Bin (55-ton) #2	EP-022
024	Reclaim Processing and Screening	EP-024
025	Imp Mill Feed Silo C	EP-002/023
026	Imp Mill Flash Calciner System C	EP-026

The following specific conditions apply to the emissions unit(s) listed above:

A.1. <u>Permitted Capacity.</u>

EU	BRIEF DESCRIPTION	CAPACITY
001	FGD Surge Bin # 1 (55-ton) **NOTE (1)**	55 tons
003	Imp Mill Feed Silo A	170 tons
004	Imp Mill Flash Calciner System A	55 tons/hr, 40 MMBtu/hr
009	Norba Grinder	20 tons/hr
010	Belt Conveyors and Bucket Elevators	N/A
011	Emergency Live Bottom Feed Hopper	25 tons
014	Ball Mills	N/A
016	Landplaster Bin	N/A
018	Imp Mill Feed Silo B	170 tons
019	Imp Mill Flash Calciner System B	55 tons/hr, 40 MMBtu/hr
022	FGD Surge Bin (55-ton) #2 **NOTE (1)**	55 tons
024	Reclaim Processing and Screening	96 tons/hr
025	Imp Mill Feed Silo System C	170 tons
026	Imp Mill Flash Calciner System C	55 tons/hr, 40 MMBtu/hr

NOTE (1) The fabric filter's primary purpose is to recover product and return it to the process.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

A.2. Hours of Operation. The emission unit is allowed to operate continuously, i.e. 8760 hrs/yr. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.3. Maximum Allowable Emission Rate: The permitted maximum allowable emission rate for each pollutant is as follows:

POLL.	E.P.	STANDARD/LIMIT	EQUIVALENT RATE	RULE
PM	EP-001	0.02 gr/dscf (0.05 g/ dscm)	0.05 lbs/hr, 0.23 TPY	40 CFR 60.672(a)
	EP-003[1]	0.02 gr/dscf (0.05 g/ dscm)	0.05 lbs/hr, 0.23 TPY	40 CFR 60.672(e)
	EP-004	0.017 gr/dscf	1.89 lbs/hr, 8.3TPY	Air Permit No. 1070039-015-AC **NOTE (2)**
	EP-009	0.02 gr/dscf (0.05 g/ dscm)	3.6 lbs/hr, 15.77 TPY	40 CFR 60.672(a)
	EP-010	N/A	N/A	40 CFR 60.672(b)
	EP-011	N/A	N/A	40 CFR 60.672(f)
	EP-014	0.02 gr/dscf (0.05 g/ dscm)	0.19 lbs/hr, 0.83 TPY	40 CFR 60.672(a)
	EP-016	0.02 gr/dscf (0.05 g/ dscm)	5.66 lbs/hr, 24.78 TPY	40 CFR 60.672(a)
	EP-018[1]	0.02 gr/dscf (0.05 g/ dscm)	0.05 lbs/hr, 0.23 TPY	40 CFR 60.672(a)
	EP-019	0.017 gr/dscf	1.89 lbs/hr, 8.3 TPY	Air Permit No. 1070039-015-AC **NOTE (2)**
	EP-022	0.02 gr/dscf (0.05 g/ dscm)	0.05 lbs/hr, 0.23 TPY	40 CFR 60.672(a)
	EP-024	N/A	1.08 lbs/hr, 4.73 TPY	
	EP-025[1]	0.02 gr/dscf (0.05 g/ dscm)	0.05 lbs/hr, 0.23 TPY	40 CFR 60.672(a)
	EP-026	0.02 gr/dscf (0.05 g/ dscm)	2.14 lbs/hr, 9.39 TPY	40 CFR 60.672(a)
VE	EP-001	7% Opacity and 10% Fugitive		40 CFR 60.672(a)
	EP-003[1]	7% Opacity and 10% Fugitive		40 CFR 60.672(a)
	EP-004	7% Opacity and 10% Fugitive		40 CFR 60.672)(e)
	EP-010	10% Opacity		40 CFR 60.672(b)
	EP-011	7% Opacity and 10% Fugitive		40 CFR 60.672(f)
	EP-019	7% Opacity and 10% Fugitive		40 CFR 60.672(a)
	EP-009	7% Opacity and 10% Fugitive		40 CFR 60.672(a)
	EP-018[1]	7% Opacity and 10% Fugitive		40 CFR 60.672(f)
	EP-014	7% Opacity and 10% Fugitive		40 CFR 60.672(a)
	EP-016	7% Opacity and 10% Fugitive		40 CFR 60.672(a)
	EP-022	7% Opacity and 10% Fugitive		40 CFR 60.672(a)
	EP-024	15% Opacity		40 CFR 60.672(b)
	EP-025[1]	7% Opacity and 10% Fugitive		40 CFR 60.672(a)
	EP-026	7% Opacity and 10% Fugitive		40 CFR 60.672(a)

[1] **EU003, 018 & 025**: Normal operation for each of these EP's is to vent into EU002, which requires a yearly EPA Method 5 and 9. Annually **EPA Method 22** is required for these units when they are operated such that emissions are vented apart from EU002 (inside of the building).
{Permitting Note: the averaging times for these conditions are based on the run time of the specified test method}
NOTE (2) requested by Applicant to escape PSD.
[Air Permit No. 1070039-015-AC]

Test Methods and Procedures
{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.4. Testing:

POLLUTANT	EMISSION POINT	METHOD	FREQUENCY	RULE
PM	EP-004, EP-019, EP-026	EPA 5	Annual	40 CFR 60.675(b)
VE	EP-004, EP014, EP-019, EP-024, EP-026	EPA 9	Annual	40 CFR 60.675(b)
	EP-001 & EU003 **NOTE (1)**, EP-009, EP-010,EP-011 **NOTE (2)**, EP-014 **NOTE (2)**, EP-016, **NOTE (1)** EP022 & EP025	EPA 22	Annual	40 CFR 60.675 **NOTE (2)**
	EP004 & EP019, EP-026	EPA 22	Weekly	See Specific **Condition A.5**

NOTE (1) EU003, 018 & 025: Normal operation for each of these EPs is to vent into EU002, which requires a yearly EPA Method 5 and 9. Annually **EPA Method 22** is required for these units when they are operated such that emissions are vented apart from EU002 (inside of the building).

[40 CFR 60.675]

NOTE (2) Exhibit no visible emissions **from the building** as determined by EPA Method 22.

A.5. Visible Emissions Test (EP004, EP026 & EP019): Visible Emissions test shall be conducted yearly. In addition, the permittee shall conduct a weekly EPA Method 22 visible emissions compliance test to ensure that emissions are not visible. The minimum observation period of the weekly EPA Method 22 test shall be twelve minutes. In the event that the weekly test indicates visible emissions, the permittee shall undertake corrective action as well as conduct a Method 9 test with a minimum observation period of sixty (60) minutes (as incorporated in Chapter 62-297, FAC). The permittee shall maintain records documenting that the weekly compliance testing has occurred. The records shall include color, duration, and density of the plume of any abnormal visible emissions detected, as well as the cause and corrective action taken for any abnormal visible emissions.
{Permitting note: It is presumed that the threshold of visibility for opacity is equal to 5%.}
[In accordance with the resolution between EPA and Lafarge North America, Inc. on May 9, 2002]

A.6. These emissions units are also subject to **conditions D.1 through D.8.**

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

These emission units are subject to NSPS requirements/standards in 40 CFR 60, Subpart UUU and 40 CFR 60 (Subpart A).

EU	Brief Description	Emission Point
002	Cage Mill Dryer System # 1 – Bag Filter	EP 002 **NOTE (1), NOTE (2)**
023	Cage Mill Dryer System #2– Bag Filter	EP 023 **NOTE (2)**

NOTE (1) EU-003, EU-025 and EU-018 duct to EP-002; however limits for these units are listed in the previous section (Subsection A)
NOTE (2) The Fabric filter's primary purpose is to recover product and return it to the process.

The following specific conditions apply to the emissions unit(s) listed above:

Operational Parameters

B.1. Permitted Capacity. The operation rates shall not exceed 55 MMBtu/hr.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

B.2. Hours of Operation. The emission units are allowed to operate continuously, i.e. 8760 hrs/yr.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

B.3. Maximum Allowable Emission Rate for each EP: The permitted maximum allowable emission rate for each cage mill dryer system is as follows:

POLLUTANT	STANDARD	EQUIVALENT	RULE
PATICULATE MATTER	(0.017 gr/dscf) Note (1)	7.58 1bs/hr, 33.19 TPY	40 CFR 60.732(a)
VISIBLE EMISSIONS	10% Opacity		40 CFR 60.732(b)

Note (1): Requested by the facility to escape PSD review.

{Permitting Note: The averaging time for this condition is based on the run time of the specified test method}

Test Methods and Procedures

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

B.4.

POLLUTANT	METHOD	FREQUENCY	RULE
PARTICULATE MATTER	EPA 5	Annual	40 CFR 60.736(b)
VISIBLE EMISSIONS	EPA 9	Annual	40 CFR 60.736(b)
	EPA 22	Weekly	See Specific Condition B.5.

B.5. **Visible Emissions:** Visible Emissions test shall be conducted yearly. In addition, the permittee shall conduct a weekly EPA Method 22 visible emissions compliance test to ensure that emissions are not visible. The minimum observation period of the weekly EPA Method 22 test shall be twelve minutes. In the event that the weekly test indicates visible emissions, the permittee shall undertake corrective action as well as conduct a Method 9 test with a minimum observation period of sixty (60) minutes (as incorporated in Chapter 62-297, FAC). The permittee shall maintain records documenting that the weekly compliance testing has occurred. The records shall include color, duration, and density of the plume of any abnormal visible emissions detected, as well as the cause and corrective action taken for any abnormal visible emissions.

{Permitting note: It is presumed that the threshold of visibility for opacity is equal to 5%.}

[In accordance with the resolution between EPA and LaFarge North America, Inc. on May 9, 2002]

Continuous Monitoring Requirements

B.6. **COM:** Install, calibrate, maintain, and operate a continuous monitoring system to measure and record the opacity of the emissions discharged into the atmosphere from the control device.
[40 CFR 60.734(a)]

B.7. These emissions units are also subject to conditions **D.1** through **D.8.**

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

EU	Brief Description	Emission Point
005	Imp Mill Air Cooling System A	EP-005
006	Stucco Silo A	EP-006 - Indoor
007	Starch Silo	EP-007
008	Sawing Systems/Dunnage Machines	EP-016 – Indoor (See EU016)
013	Wallboard Dryer (4 Natural Gas Burners)	EP-013A
		EP-013B
017	Additives System and Pin Mixer	EP-017 - Indoors
020	Imp Mill Air Cooling System B	EP-020
021	Stucco Silo B	EP-021- Indoor
027	Imp Mill Air Cooling System C	EP-027

These Emission Units are subject to Rule 62-296.320(4), F.A.C.

The following specific conditions apply to the emissions unit(s) listed above:

OPERATIONAL PARAMETERS

C.1. Permitted Capacity.

EU	Brief Description	Capacity
005	Imp Mill Air Cooling System A	20 tons
006	Stucco Silo A	690 tons
007	Starch Silo	5,270 cubic feet
008	Sawing Systems/Dunnage Machines	N/A
013	Wallboard Dryer (4 Natural Gas Burners)	186 MMBtu/hr
017	Additives System and Pin Mixer	N/A
020	Imp Mill Air Cooling System B	20 tons
021	Stucco Silo B	690 tons
027	Imp Mill Air Cooling System C	55 tons/hr

C.2. Hours of Operation. The emission unit is allowed to operate continuously, i.e. 8760 hrs/yr. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

C.3. Permitted Maximum Allowable Emission Rate: The permitted maximum allowable emission rate for each pollutant is as follows:

POLLUTANT	EU	STANDARD	EQUIVALENT	RULE
Particulate Matter	EP-005	0.02 gr/dscf [48,000 dscfm]	8.23 1bs/hr, 36.04 TPY (each)	**Note (1)**
	EP-027	0.02 gr/dscf [27,000 dscfm]	4.75 lbs/hr, 20.8 TPY	**Note (1)**
	EP-008	0.02 gr/dscf	4.11 lbs/hr, 18.02 TPY	**Note (2)**
	EP-017	0.03 gr/dscf [8,000 dscfm]	2.06 lbs/hr, 9.01 TPY	**Note (1)**

C.3. continued:

POLLUTANT	EU	STANDARD	EQUIVALENT	RULE
Particulate Matter	EP-20	0.017 gr/dscf	6.99 lb/hr, 30.63 tpy	Air Permit No. 1070039-015-AC
Visible Emissions	EP-006, EP-007, EP-017, EP-021, EP-008	5% Opacity		62-297.620(4)
	EP-005, EP-013 A/B, EP-020, EP-027	20% Opacity		62-296.320(4)(b)

Note (1): Limit requested by the facility to escape PSD review.
Note (2): EU008 (4.11 lbs/hr, 18.02 TPY) vents to EP016.

{Permitting Note: The averaging time for these conditions is based on the run time of the specified test method}

Test Methods and Procedures

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

C.4. Testing Requirements:

POLLUTANT	EU	METHOD	FREQUENCY	RULE
VISIBLE EMISSIONS	EP-005, EP-020, EP-013A/B, EP-007, EP-027	EPA 9	Annual	62-296.320(4)(b)
	EP-006, EP-017, EP-021	**NOTE (2)**	-----	-----
	EP-005, EP-020	EPA 22	Weekly	See Specific Condition C.5.
	EP-008	**Note (3)**		
PARTICULATE MATTER	EP 005, EP-020	EPA 5	Annual	**NOTE (1)**

Note (1): Test required due to the requested Particulate Matter maximum allowable emission rate to escape PSD review.
Note (2): These emission units are located indoors and testing may be required. DEP reserves the right to require the modification of construction and operation permits to accommodate testing requirements based on EPA, 04/04/2003 letter and any additional instruction from EPA and /or the Division of Air. If such determination is made, the permittee will be required to submit all necessary permit applications and publish required "Public Notices".
Note (3): EU008 vents to EP-016.

C.5. <u>Visible Emissions Test:</u> (EP005, 020 and 027) Visible Emissions test shall be conducted yearly. In addition, the permittee shall conduct a weekly EPA Method 22 visible emissions compliance test to ensure that emissions are not visible. The minimum observation period of the weekly EPA Method 22 test shall be twelve minutes. In the event that the weekly test indicates visible emissions, the permittee shall undertake corrective action as well as conduct a Method 9 test with a minimum observation period of sixty (60) minutes (as incorporated in Chapter 62-297, FAC). The permittee shall maintain records documenting that the weekly compliance testing has occurred. The records shall include color, duration, and density of the plume of any abnormal visible emissions detected, as well as the cause and corrective action taken for any abnormal visible emissions.
{Permitting note: It is presumed that the threshold of visibility for opacity is equal to 5%.}

[In accordance with the resolution between EPA and Lafarge North America, Inc. on May 9, 2002]

C.6. These emissions units are also subject to conditions **D.1** through **D.8.**

Subsection D. Common Conditions.

E.U.	DESCRIPTION	EMISSION POINT
001	FGD Surge Bin #1 (55-ton Bin)	EP-001
002	Cage Mill Dryer System #1	EP-002
003	Imp Mill Feed Silo A (170-ton Bin)	EP-002/023
004	Imp Mill Calciner System A	EP-004
005	Imp Mill Air Cooling System A	EP-005
006	Stucco Silo A (690-ton Bin)	EP-006
007	Starch Silo	EP-007
008	Sawing Systems/Dunnage Machines	EP-016
009	Norba Grinder	EP-009
010	Belt Conveyors and Bucket Elevators.	Fugitive
011	Emergency Live Bottom Feed Hopper.	EP011
013	Wallboard Dryer (4 Natural Gas Burners)	EP-013A EP-013B
014	Ball Mills	EP-014
016	Landplaster Bin	EP-016
017	Additives System and Pin Mixer	EP-017
018	Imp Mill Feed Silo B (170-ton Bin)	EP-002/023
019	Imp Mill Calciner Systems B	EP-019
020	Imp Mill Air Cooling System B	EP-020
021	Stucco Silo B (690-ton Bin)	EP-021
022	FGD Surge Bin #2 (55-ton Bin)	EP-022
023	Cage Mill Dryer System #2	EP-023
024	Reclaim Processing and Screening	EP-024
025	Imp Mill Feed Silo C	EP-002/023
026	Imp Mill Calciner System C	EP-026
027	Imp Mill Air Cooling System C	EP-027

The following conditions apply to the emissions unit(s) listed above:

Test Methods and Procedures

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

D.1. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

1. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to

D.1. continued:

Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

a. Did not operate; or
b. In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total of no more than 400 hours.
2. During each federal fiscal year (October 1 -- September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:
a. Visible emissions, if there is an applicable standard;

3. The owner or operator shall notify the Department, at least 15 days prior to the 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.
(b) Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.
[Rule 62-297.310(7), F.A.C.]

D.2. Operating Rate During Testing. Unless otherwise stated in the applicable emission limiting standard rule, testing of emissions shall be conducted with the emissions unit operating at permitted capacity as defined below. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.
(b) All Other Sources. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit.
[Rules 62-297.310(2) and 62-297.310(2)(b), F.A.C.]

D.3. Applicable Test Procedures.
(a) Required Sampling Time.
1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling port shall be of equal intervals of at least two minutes.
2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard.

D.3. continued:

The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

a. For batch, cyclical processes, or other operations which are normally completed within less than the minimum observation period and do not recur within that time, the period of observation shall be equal to the duration of the batch cycle or operation completion time.

b. The observation period for special opacity tests that are conducted to provide data to establish a surrogate standard pursuant to Rule 62-297.310(5)(k), F.A.C., Waiver of Compliance Test Requirements, shall be established as necessary to properly establish the relationship between a proposed surrogate standard and an existing mass emission limiting standard.

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.
[Rule 62-297.310(4)(a)2., F.A.C.]

D.4. <u>Determination of Process Variables.</u>

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.
[Rule 62-297.310(5), F.A.C.]

<u>Excess Emissions</u>

D.5. <u>Excess Emissions:</u> Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.
[Rule 62-210.700(1),F.A.C.]

D.6. <u>Excess Emissions:</u> Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

<u>Recordkeeping and Reporting Requirements</u>

D.7. <u>Excess Emissions:</u> In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department Air Program immediately in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.
[Rule 62-210.700(6), F.A.C.]

D.8. <u>Test Reports</u>.

(a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.

(b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.

(c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.
2. The facility at which the emissions unit is located.
3. The owner or operator of the emissions unit.
4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard
6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
8. The date, starting time and duration of each sampling run.
9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
10. The number of points sampled and configuration and location of the sampling plane.
11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
l2. The type, manufacturer and configuration of the sampling equipment used.
13. Data related to the required calibration of the test equipment.
14. Data on the identification, processing and weights of all filters used.
15. Data on the types and amounts of any chemical solutions used.
16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.

D.8. continued:

21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

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