Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Jonathan P. Steverson
Secretary

FINAL PERMIT

PERMITTEE

Boral Industries, Inc.
200 Mansell Court East, Suite 305
Roswell, GA 30076

Authorized Representative:
Mr. Steve Saldate, Plant Manager

Air Permit No. 1050155-013-AC
Permit Expires: 07/01/2016
Minor Air Construction Permit
Project: Replace Baghouse – Gray Cement Silo

This is the final air construction permit to replace the baghouse on the gray cement silo (EU No. 001). The proposed work will be conducted at the Boral Industries, Inc., facility (Standard Industrial Classification No. 3272). The facility is located in Polk County at 200 Story Road in Lake Wales, Florida. The UTM coordinates are Zone 17, 450.3 km East, and 3085.9 km North.

This final permit is organized by the following sections:

Section 1. General Information

Section 2. Administrative Requirements and Facility-wide Specific Conditions

Section 3. Emissions Unit 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

Kelley M. Boatwright 07/06/2015
Kelley M. Boatwright Effective Date
Permitting & Waste Cleanup
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 the date indicated below to the persons listed below.

Mr. Steve Saldate, Boral Roofing, (Steve.Saldate@boral.com)

Ms. Kelly McCormick, Boral Industries, Inc., (Kelly.mccormick@boral.com)

Michael Long, P.E., Cornerstone Engineering Services, LLC (Mlong@cornerstone-engineers.com)

Ms. Shannon Camp, Compliance Assurance Program (Shannon.D.Camp@dep.state.fl.us)

Ms. Danielle Henry, Compliance Assurance Program (Danielle.D.Henry@dep.state.fl.us)

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.

Rhonda Hughes July 6, 2015
(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

This facility manufactures concrete roof tiles. The existing facility consists of the following emissions units (EUs).

Facility ID No. 1050155

EU ID No.	Emissions Unit Description
001	Gray Cement Silo
004	Roof Tile Manufacturing – Line Nos. 1, 2 and 3
006	White Cement Silo
009	Cement/ Cement Supplement Silo
010	Line 4 – Silo A
011	Line 4 – Silo B
012	Line 4 – Silo C
013	Roof Tile Manufacturing – Line No. 4
014	Line 4 – Color Room Silo A1
015	Line 4 – Color Room Silo B1
016	Line 4 – Color Room Mixing (Exempt)

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

Project Description and Affected Emission Units

This project is for the replacement of the facility's Gray Cement Silo baghouse (EU ID No. 001). The existing "Jet Vent" Model JV366x dust collector will be replaced with a new WAM Model SILOTOP R01 cartridge baghouse. This project will modify the following emissions unit (EU).

EU ID No.	Emissions Unit Description
001	Gray Cement Silo

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

Exempt Emission Sources/Activities

(1) Production lines 1 through 3 includes 18 gas fired curing ovens that are exempted from permitting pursuant to Generic Emission Unit or Activity Exemption Rule 62-210.300(3)(b)1., F.A.C.

(2) Production lines 1 through 3 includes two sand silos that are exempted from permitting pursuant to Generic Emission Unit or Activity Exemption Rule 62-210.300(3)(b)1., F.A.C. Uncontrolled potential emission are below the 5 tons/year exemption limit.

(3) Production line 4 includes eight curing chambers heated by hot water supplied by two natural gas-fired boilers (each with a 3.4 MMBtu/hr heat input) that are exempted from permitting pursuant to Categorical Exemption Rule 62-210.300(3)(a)33., F.A.C.

(4) Production line 4 sand handling equipment is exempted from permitting pursuant to Generic and Temporary Exemption Rule 62-310.300(3)(b)1., F.A.C. as the uncontrolled potential equipment from each silo is below the exemption rate of 5 tons/year. Sand handling equipment consists of the following items: Sand Hopper/Conveyor 1, Sand Screen/Conveyor 2, Sand Silos A, B & C, Sand Belt Loading, Sand Weight Hopper and Color Mixing Room Silica Sand Silo.

(5) Emission Unit ID 016 (Line 4 Color Room Mixing) – This emission unit is exempted from permitting pursuant to Rule 62-4.040, F.A.C. This emission unit is located inside a building and includes particulate emissions from weighting and mixing cement, cement supplement and silica sand. Particulate matter emissions from this equipment are captured by a filter sock which is also located inside a building.

Exemptions under Rule 62-4.040(1)(b), F.A.C. (insignificant emissions), may be revoked if the installation is substantially modified or the basis for the exemption is determined to be materially incorrect.

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAPs).
- 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 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- This facility is a synthetic non-Title V source for the pollutants total hazardous air pollutants (HAPs), volatile organic compounds (VOC) and particulate matter (PM).

PERMIT HISTORY/AFFECTED PERMITS

This permit replaces Construction Permit Nos. 1050155-007-AC and 1050155-008-AC.

ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority - The permitting authority for this project is the Florida Department of Environmental Protection (Department), Southwest District Office's Air and Solid Waste Permitting Program. The mailing address, phone number and e-mail address is:

Florida Department of Environmental Protection
Southwest District Office
Air and Solid Waste Permitting Program
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-470-5700
E-mail: SWD_Air_Permitting@dep.state.fl.us

All documents related to applications for permits shall be submitted to the above e-mail address and/or address.

2. Compliance Authority - The compliance authority for this project is the Florida Department of Environmental Protection (Department), Southwest District Office's Compliance Assurance Program. The mailing address, phone number and e-mail address is:

Florida Department of Environmental Protection
Southwest District Office
Compliance Assurance Program
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-470-5700
E-mail: SWD_Air@dep.state.fl.us

All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the above e-mail address and/or address.

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; and

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 modification of the permitted emissions unit(s) and initial operation to determine compliance with Department rules. A Non-Title V air operation permit is required for continued operation of the permitted emissions unit(s). The permittee shall apply for a Non-Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation or commencing operation as modified. Commencing operation means setting into operation of any emissions unit for any purpose. To apply for a 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, 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.; (applies to non-Title V facilities and construction permits at a Title V facility that does not have an effective Title V permit)

c. copies of the most recent compliance test reports required by Specific Condition No. A.10., if not previously submitted; and

d. copies of the most recent two month of records/logs specified in Specific Condition Nos. A.11.

The application shall be submitted to the Permitting Authority.

[Rules 62-4.030, 62-4.050 and Chapter 62-213, F.A.C.]

FACILITY-WIDE SPECIFIC CONDITIONS

9. VOC and HAP Emissions Standards – In order to establish the facility as a synthetic non-Title V source of VOC and HAP emissions, the following emission limits shall apply facility-wide:

a. Combined VOC emissions shall not exceed 40 tons per any consecutive 12-month period.

b. Combined total HAP emissions shall not exceed 8 tons per any consecutive 12 –month period.

[Rules 62-4.070(3), and 62-21-.200, F.A.C. (PTE) and Construction Permit 1050155-008-AC]

{Permitting Note: This emissions standard is a facility-wide standard and therefore covers emissions from both permitted emissions units and exempt emissions units and activities. Therefore the combined total emissions of the permitted emissions units and the exempt emissions units and activities cannot exceed the VOC and HAP emissions standards listed above.}

10. Reasonable Precautions – All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provisions in Rule 62-296.320(4)(c), F.A.C. The following shall constitute reasonable precautions:

a. Management of roads, parking areas, stock piles, and yards, which shall include one or more of the following:

(1) Paving and maintenance of roads, parking areas, and yards.

(2) Application of water or environmentally safe dust-suppressant chemicals when necessary to control emissions.

(3) Removal of particulate matters from roads and other paved areas under control of the owner or operator to mitigate re-entrainment, and from building or work areas to reduce airborne particulate matter.

(4) Reduction of stockpile height or installation of wind breaks to mitigate wind entrainment of particulate matters from stock piles.

b. Use of spray bar, chute, or partial enclosure to mitigate emissions at the drop point to the truck.

[Rules 62-296.414(2) and 62-296.320(4)(c), F.A.C.]

11. Fugitive Emissions Opacity Standard – As an indicator that the precautions to control unconfined particulate matter emissions as required by Specific Condition No. 10 are adequate, emission of unconfined particulate matter from the facility should not exceed 5% opacity. If this value is exceeded, it shall not be a violation in and of itself, but an indication that additional control precautions and/or work practices may be necessary.

[Rule 62-4.070(3), F.A.C.]

12. Operation and Maintenance (O & M) Plan – The operation and maintenance plan for all baghouses shall include the following:

a. Inspect the baghouse discharges each operational day for visible emissions.
b. Inspect the baghouse, stack, and ductwork weekly for visible problems (i.e., puff or dust, not venting from conveyors).
c. Inspect dust bins each operational day and empty when near full.
d. Baghouse must be operated at all times when the associated emission unit is operating.

Inspection log shall be completed on the day of the inspection. All inspection logs shall be maintained at the facility for at least three years, and be made available to the Department for inspection upon request. [Rule 62-4.070(3), F.A.C.]

A. EU Nos. 001, 006, 009, 010, 011, 012, 014, & 015 – Storage Silos

This section of the permit addresses the following emissions units (EUs).

EU ID No.	Emissions Unit Description
001	*Gray Cement Silo – This emission unit consists of a Cement Silo (typically loaded with gray cement), which has a loading rate of 25-27 tons/hour. Silo particulate matter is controlled by a WAM Model SILOTOP R01 cartridge baghouse. The dust collector has a design airflow rate of 1500 ACFM.*
006	*White Cement Silo – This emission unit consists of a Cement Silo (typically loaded with white cement), which has a loading rate of 25-27 tons/hour. Silo particulate matter is controlled by a reverse pulse jet, "Jet Vent" Model JV366x, dust collector equipped with an electric blower. The dust collector has a design airflow rate of 700 ACFM.*
009	*Cement/ Cement Supplement Silo – This emission unit consists of a cement silo which can store cement or cement supplement (fly ash/slag). This silo has a loading rate of 25-27 tons/hour and is limited to a cement supplement throughput rate of 22,650 tons per any consecutive 12-month period. Silo particulate matter is controlled by a reverse pulse jet, "Jet Vent" Model JV366x, dust collector equipped with an electric blower. The dust collector has a design airflow rate of 700 ACFM.*
010	*Line 4 - Silo A – This emission unit consists of a cement silo which is permitted to store cement or cement supplement based upon the material used to perform the visible emissions compliance test. This silo has a loading rate of 25-27 tons/hour and an average annual throughput of 110,960 TPY. Silo particulate matter is controlled by a "WAM Silo Top RO1" model dust collector. The dust collector has a design airflow of 1500 ACFM and a control efficiency of 99.8%.*
011	*Line 4 - Silo B – This emission unit consists of a cement silo which is permitted to store cement or cement supplement based upon the material used to perform the visible emissions compliance test. This silo has a loading rate of 25-27 tons/hour and an average annual throughput of 110,960 TPY. Silo particulate matter is controlled by a "WAM Silo Top RO1" model dust collector. The dust collector has a design airflow of 1500 ACFM and a control efficiency of 99.8%.*
012	*Line 4 - Silo C – This emission unit consists of a cement silo which is permitted to store cement or cement supplement based upon the material used to perform the visible emissions compliance test. This silo has a loading rate of 25-27 tons/hour and an average annual throughput of 110,960 TPY. Silo particulate matter is controlled by a "WAM Silo Top RO1" model dust collector. The dust collector has a design airflow of 1500 ACFM and a control efficiency of 99.8%.*
014	*Line 4 – Color Room Silo A1 – This emission unit consists of a split cement silo which is permitted to store cement or cement supplement. This silo has a loading rate of 27 tons/hour. Silo particulate matter is controlled by a "330 Pulse Dust House" model dust collector. The dust collector has a design airflow of 1600 ACFM and a control efficiency of 99.99%.*
015	*Line 4 – Color Room Silo B1 – This emission unit consists of a split cement silo, which can store cement or cement supplement. This silo has a loading rate of 27 tons. Silo particulate*

	matter is controlled by a "330 Pulse Dust House" model dust collector. The dust collector has a design airflow of 1600 ACFM and a control efficiency of 99.99%.

PERFORMANCE RESTRICTIONS

A.1. Permitted Capacity for EU No. 009 – The cement supplement (fly ash/slag) throughput rate for the Cement/Cement Supplement Silo (EU 009) is limited to a maximum of 22,650 tons per any consecutive 12-month period.
{Permitting Note: The maximum production rate of cement supplement is based on 15% cement replacement for a portion of cement fed into the system}
[Rules 62-210.200 (Potential to Emit) and 62-4.070(3), F.A.C.; Construction Permit 1050155-007-AC]

A.2. Permitted Storage Materials for EU Nos. 009, 010, 011, 012, 014 & 015 – The silos used in EU Nos. 009, 010, 011, 012, 014 & 015 are permitted to load and store either cement or cement supplement provided the appropriate annual visible emissions tests have been conducted. Specifically, if the annual visible emissions test for a silo was conducted while loading cement, then the silo is permitted to load cement only. If the annual visible emissions test for a silo was conducted while loading cement supplement, then the silo is permitted to load either cement or cement supplement. Silos limited to loading cement only may perform additional visible emissions test to gain the authority to load cement supplement.
[Rules 62-4.070(3) and 62-210.200 (definition of Potential to Emit), F.A.C.]

A.3. Restricted Operation – The hours of operation are not limited (8760 hours per year).
[Rules 62-4.070(3) and 62-210.200 (definition of Potential to Emit), F.A.C.]

EMISSIONS STANDARDS

A.4. Visible Emissions Standard – Visible emissions (VE) from the silo baghouses, weigh hoppers, and other enclosed storage and conveying equipment shall not exceed 5% opacity.
[Rule 62-296.414(1), F.A.C.;]

COMPLIANCE TESTING REQUIREMENTS

A.5. Initial Compliance Tests – Emissions Unit No. 001 shall be tested to demonstrate initial compliance with the visible emissions (VE) standard. The initial tests shall be conducted no later than 60 days after initial operation of the unit.
[Rules 62-4.070(3) and 62-297.310(8)(b)1., F.A.C.]

A.6. Compliance Tests After Initial Testing – During each calendar year (January 1st to December 31st), each baghouse exhaust shall be tested to demonstrate compliance with the visible emissions standard.
[Rule 62-297.310(8)(a)1, F.A.C.]

A.7. Compliance Test Requirements - Compliance tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. Additionally, the following requirements shall apply:

a. Compliance tests shall be conducted while loading the silo at a rate that is representative of the normal silo loading rate. The normal silo loading rate shall be at least 25 TPH unless unachievable in practice, in which case the highest achievable rate will be used. If the silo is

used to store multiple materials (i.e., cement or cement supplement), the permittee shall conduct visible emissions test while loading cement supplement, if feasible.

b. If this is not feasible and visible emissions tests are conducted while loading cement, then the silo operation shall be limited to operating with cement only. Once the unit is so limited, operation of the silo with cement supplement is allowed for no more than 60 consecutive days for the purposes of additional compliance testing to regain the authority to operate with cement supplement.

c. Tests results shall be filed with the Florida Department of Environmental Protection (Department), Southwest District Office's Compliance Assurance Program within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit allowing the following operation modes: (1) the silo is permitted to operate with cement only if the visible emission test was performed with cement and (2) the silo is permitted to operate with cement and cement supplement if the visible emissions test was performed with cement supplement.

[Rules 62-4.070(3), 62-296.414(3) and 62-297.310, F.A.C.]

A.8. Compliance Test Method – Required compliance tests shall be performed in accordance with the following reference method.

Method	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 is adopted by reference in Rule 62-204.800, F.A.C. No other methods 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]

NOTIFICATION REQUIREMENTS

A.9. Notification of Operation Commencement – The permittee shall notify the Compliance Authority in writing of the date of commencing operation of the EU No. 001 after completing the modifications authorized by this permit, no later than fifteen (15) days after that date. Commencing operation means setting into operation of any emissions unit for any purpose.
[Rules 62-4.070, and 62-210.200, F.A.C., (definition of Commence Operation)]

RECORDKEEPING AND REPORTING REQUIREMENTS

A.10. Compliance Test Reports – The permittee shall prepare and submit reports for all required compliance tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. Additionally, each test report shall include the following:

a. the actual silo loading rate during the visible emissions testing, and
b. the material loaded (cement/cement supplement).

[Rule 62-297.310(10), F.A.C.]

A.11. Daily and Monthly Log – The permittee shall maintain the following daily and monthly records:

a. Daily Records (Emission Unit 009) – Daily records shall be maintained to document compliance with the throughput limitations of Specific Condition No. A.1. The records shall include, but are not limited to, the following:
   (1) Facility Name, Facility Number (1050155), Emission Unit No. (009) and Date.
   (2) The total amount of cement supplement (fly ash/slag) loaded (in tons).
   (3) The total amount of cement loaded (in tons).

b. Monthly Records (Emission Unit 009) – Monthly records shall be maintained to document compliance with the limitations of Specific Condition No. A.1. The records shall include, but are not limited to, the following:
   (1) Facility Name, Facility Number (1050155), Emission Unit No. (009), Month and Year.
   (2) The total amount of cement supplement loaded (in tons) into the silo during the month.
   (3) The total amount of cement loaded (in tons) into the silo during the month.
   (4) The total amount of cement supplement loaded (in tons) into the silo during the most recent consecutive 12-month period.
   (5) The total amount of cement loaded (in tons) into the silo during the most recent consecutive 12-month period.

c. Monthly Records (Emission Units 010, 011, 012, 014, 015) – Monthly records shall be maintained to document compliance with the throughput limitations of Specific Condition No. A.2. The records shall include, but are not limited to, the following:
   (1) Facility Name, Facility Number (1050155), Emission Unit Nos. (010, 011, 012, 014, 015) and Date.
   (2) Identification of material as either Cement or Cement Supplement for each silo loading event.

All daily records shall be completed within 3 business days and all monthly records shall be completed by the 10th day of the following month. All records required by this permit shall be maintained at the facility for at least three years, unless otherwise noted, and be made available to the Department for inspection upon request.

[Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C.; Construction Permits 1050155-007-AC and 1050155-008-AC]

B. EU Nos. 004 & 013 – Roof Tile Manufacturing Lines

This section of the permit addresses the following emissions units (EUs).

EU ID No.	Emissions Unit Description
004	*Roof Tile Manufacturing – Line Nos. 1, 2 and 3 – This emission unit consists of the three tile production lines (Tile Line No. 1, Tile Line No. 2 and Tile Line No. 3). The three tile lines have an annual sand throughput of approximately 374,000 tons per any consecutive 12-month period, and an annual combined cement/ cement supplement throughput of approximately 151,000 tons per any consecutive 12-month period. Particulate emissions are controlled by a process dust collector (a Torit Brand, filter cartridge system, Torit downflow II Model 3-24), which has a design airflow rate of 10,000 ACFM. This dust collector system has 8 pickup points located over the raw material feed belts and mixing screws. Particulate material captured by the Torrid Dust Collection is recycled back into the Gray Cement Silo (EU No. 001) using a small blower. Volatile organic compounds (VOCs) and hazardous air pollutants (HAPs) are emitted fugitively from the concrete roof tile sealer coatings used in the three tile production lines.*
013	*Roof Tile Manufacturing – Line No. 4 – This emission unit includes fugitive VOC and HAP emissions from mold oil and sealer surface coatings used in the production line. This emission unit also includes particulate emissions from weight hoppers and mixers used in the process. This line has a throughput rate of 38 tons/hour and an annual throughput of 332,880 TPY of cement and cement supplement combined. A "WAM FC2J 07-65" model dust collector is used to control emissions. The dust collector has a design airflow of 390 ACFM and a control efficiency of 98%.*

PERFORMANCE RESTRICTIONS

B.1. Restricted Operation – The hours of operation are not limited (8760 hours per year).
[Rules 62-4.070(3) and 62-210.200 (definition of Potential to Emit), F.A.C.]

EMISSIONS STANDARDS

B.2. Visible Emissions Standard – Visible emissions (VE) from Emission Units Nos. 004 and 013 dust collector baghouses shall not exceed 5% opacity.
[Rule 62-296.414(1), F.A.C.;]

COMPLIANCE TESTING REQUIREMENTS

B.3. Compliance Tests – During each calendar year (January 1st to December 31st), each baghouse exhaust shall be tested to demonstrate compliance with the visible emissions standard.
[Rule 62-297.310(8)(a)1, F.A.C.]

B.4. Compliance Test Requirements – Compliance tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. Additionally, the following requirements shall apply:

a. Emission Unit 004 Test Requirements:

(1) Compliance tests shall be conducted while all three tile lines are simultaneously processing cement and sand.

(2) Compliance tests submitted with less than three tile lines in operation simultaneously shall automatically amend the permit limiting the operation to the maximum number of tile lines that were in operation during that test. Once the unit is so limited, simultaneously operation of up to three tile lines 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. Permitted capacity is defined as three tile lines operating simultaneously.

(3) Test results shall be filed with the Florida Department of Environmental Protection (Department), Southwest District Office's Compliance Assurance Program within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the highest number of roof tile lines tested when simultaneously processing cement and sand up to the permitted number of 3 roof tile lines.

b. Emission Unit 013 Test Requirements:

(1) Compliance tests for Line 4 dust collector exhaust shall be conducted while feeding the weigh hoppers/mixers at a rate that is representative of the normal batching rate and duration.

(2) Test results shall be filed with the Florida Department of Environmental Protection (Department), Southwest District Office's Compliance Assurance Program within 45 days of testing.

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

B.5 Compliance Test Method – Required compliance tests shall be performed in accordance with the following reference method.

Method	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 is adopted by reference in Rule 62-204.800, F.A.C. No other methods 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]

NOTIFICATION REQUIREMENTS

B.6. Test Notification – The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. The notification must include the following information: the date, time, and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company, and the telephone number of the person conducting the test.

{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.}
[Rules 62-4.070(3) and 62-297.310(9), F.A.C.]

RECORDKEEPING AND REPORTING REQUIREMENTS

B.7. Compliance Test Reports – The permittee shall prepare and submit reports for all required compliance tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. Additionally, each test report shall include a copy of the daily log for the test date. The test report for EU No. 013 shall also include the actual batching rate during emissions testing. See Specific Condition B.8. for daily log requirements.
[Rule 62-297.310(10), F.A.C.]

B.8. Daily and/or Monthly Log – The permittee shall maintain the following daily and monthly records:

a. VOC/HAP Recordkeeping Daily Records – If the last compliance test for Emission Unit 004 was conducted with less than the maximum permitted number of 3 tile lines simultaneously processing cement and sand, a daily log for the tile lines shall be maintained to document compliance with the limitations of Specific Condition No. B.4. At a minimum the log shall indicate the following:

(1) Facility Name, Facility Number (1050155), Emission Unit No. (004) and Date.

(2) Identification of each tile line processing cement and sand.

(3) Start and stop time for each tile line processing cement and sand.

(4) Maximum total number lines that were simultaneously processing cement and sand.

(5) Operator Name(s).

b. VOC/HAP Recordkeeping Monthly Records – The permittee shall maintain monthly records to document compliance with the facility-wide "VOC and HAP Emissions Standards" specified in Specific Condition No. 9 and shall include, but are not limited to, the following:

(1) Facility Name, Facility Number (1050155), Emission Unit Nos. (004 and 013), Month and Year.

(2) List, by name or identification number, each sealer, coating, equipment solvent wash, or other VOC/HAP containing material used in association with the tile manufacturing process during the month and the amount of each used, in gallons.

(3) List the VOC content and HAP content (lbs/gal) for each material listed in item (2) from the MSDS of the material or other acceptable documentation of the material.

(4) Calculate the VOC and Total HAP emissions, using the following general equation:

VOC Emissions =	Usage (gal) x VOC Content (lbs/gal) x Emission Factor*
HAP Emissions =	Usage (gal) x HAP Content (lbs/gal) x Emission Factor*

**Until further notice from the Department, emissions for all sealers and other VOC containing material shall be used to calculate using an emission factor of 1.0.*

(5) Summarize the VOC emissions and total HAP emissions for the most recent month.

(6) Summarize the VOC emissions and total HAP emissions for the most recent consecutive 12-month period.

All daily records shall be completed within 3 business days and all monthly records shall be completed by the 10th day of the following month. All records required by this permit shall be maintained at the facility for at least three years, unless otherwise noted, and be made available to the Department for inspection upon request.

Records of all calculations and supporting documentation ("As Supplied", "As Applied" records, MSDS Sheets, EPA data sheets, etc.) shall be kept for each sealer, coating, equipment solvent wash, or other VOC/HAP containing material used in association with the tile manufacturing process which includes sufficient information to determine VOC and HAP emissions. At the permittee's option, "purchases" may be used where "usage" is specified provided no materials are used that are not purchased.

[Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C.; Operation Permit 1050155-003-AF and Construction Permit 1050155-008-AC]

{Permitting note: In general, the VOC emissions calculations for Emissions Unit Nos. 004 and 013 (shown above) are adequate to demonstrate compliance with the facility-wide VOC and HAP limits specified in Specific Condition A.1 and VOC emissions contributions from exempt activities (which are small) are not an issue. However, as the VOC emissions from Emissions Unit Nos. 004 and 013 approach the facility-wide VOC emission limit, then VOC emissions calculations for the exempt activities may be required. The two exempt activities at this facility include 18 natural gas fired curing ovens and two natural gas boilers (see Section 1., "Exempt Emission Units/Activities").}