FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

NORTHEAST DISTRICT
8800 BAYMEADOWS WAY WEST, SUITE 100
JACKSONVILLE, FLORIDA 32256

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

Sent by Electronic Mail – Received Receipt Requested

PERMITTEE

Owens Corning Roofing and Asphalt, LLC
1035 Talleyrand Ave
Jacksonville, Florida 32206

Authorized Representative:
Chris Preslock, Site Leader

Air Permit No. 0310050-019-AC
Permit Expires: 02/03/2015

Jacksonville Plant
Air Construction Permit
Dust Collector Replacement (EU 003)
Sand System Reclassification (EU 045)

This is the final air construction permit, which authorizes the installation of a Donaldson Company (Torit) CPV4 Dust Collector for the control of particulate matter emissions from the existing Limestone Filler Heater (EU 003). This project also authorizes the replacement of the existing dust collector for the existing Sand System with a new Donaldson Company (Torit) 64FTD Dust Collector (EU 045).

The proposed work will be conducted at Owens Corning Roofing and Asphalt, LLC (OCRA) Jacksonville Plant located at 1035 Talleyrand Avenue, in Duval County (Standard Industrial Classification No. 2952); UTM Coordinates: Zone 17, 439.5 km East and 3356.2 km North. Latitude: 30º 20` 14.9675" North and Longitude: 81º 37` 48.2012" West.

This final permit is organized by the following sections.

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Emissions Unit Specific Conditions

Section 4. Appendices

Because of 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 construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The 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 Jacksonville, Florida

Richard S. Rachal III, P.G.
Program Administrator
Waste and Air Resource Management Program

RSR/yke

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit) 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 February 03, 2014 to the persons listed below.

Chris Preslock, Site Leader, Owens Corning Roofing and Asphalt, chris.preslock@owenscorning.com
Brad James, P.E., Trinity Consultants, bjames@trinityconsultants.com
Karen Lyons, Owens Corning Roofing and Asphalt, karen.lyons@owenscorning.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) February 03, 2014 (Date)

FACILITY AND PROJECT DESCRIPTION

This facility consists of a manufacturing plant for the production of asphalt and a manufacturing plant for the production of roofing products, including asphalt shingles. The plant processes several types of asphalts with various characteristics such as non-oxidized and oxidized. Regulated emission units include material handling operations, mineral application area (surfacing area), asphalt coater system, asphalt convertors (blowing stills), asphalt and asphalt products storage tanks, and asphalt loading equipment. The facility does not utilize a catalyst in the asphalt blowing process.

The facility is subject to the provisions of New Source Performance Standards (NSPS), 40 Code of Federal Regulation (CFR) 60, Subpart UU, Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture, 40 CFR 60, Subpart A, General Provisions; 40 CFR 63, Subpart AAAAAAA, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing, 40 CFR 63, Subpart A, General Provisions; 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, and Subpart A – General Provisions; and Particulate Matter (PM) Reasonably Available Control Technology (RACT) requirements.

The facility has a facility-wide emission limit for hazardous air pollutants (HAP) of less than 10 tons per year for any single HAP and less than 25 tons per year for total HAPs classifying it as a Synthetic Minor Source of HAPs.

Proposed Project

This project authorizes the replacement of the existing Donaldson Company (Torit) M/N 64PJD10 Dust Collector that control emissions from the Limestone Filler Heater (EU 003) with a new Donaldson Company (Torit) CPV4 Dust Collector. This project also authorizes the replacement of the existing dust collector for the Sand System with a new Donaldson Company (Torit) 64FTD Dust Collector. The existing Sand System control unit currently vents to the control system for the Bulk Granule Handling System (EU 029). Upon installation, the proposed new control unit will be reconfigured to no longer vent to EU 029. The Sand System emissions will be exhausted to the atmosphere classifying the unit as a new emissions source (EU 045).

This project modifies the following Emissions Units:

Facility ID No. 0310050	
ID No.	**Emission Unit Description**
003	Limestone Filler Heater
045	Sand System

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 a** Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility **is not** a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Northeast District Office, Waste and Air Resource Management Program, Florida Department of Environmental Protection (Department). The Northeast District Office's mailing address and phone number are 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256, 904-256-1700. All documents related to applications for permits to operate an emissions unit shall be submitted to the Northeast District Office.
2. Compliance Authority: The compliance authority for this project is the Northeast District Office, Compliance Assurance Florida Department of Environmental Protection (Department). The Northeast District Office's mailing address and phone number are 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256, 904-256-1700. All documents related to compliance of an emissions unit shall be submitted to the Northeast District Office.
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: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

7. Existing Permits and Regulations: The conditions of this permit supplements all other previously issued air construction permits for this facility. These conditions are in addition to all other applicable permit conditions and regulatory requirements. The owner or operator shall continue to comply with the conditions of those permits, which include restrictions and standards regarding capacities, production, operation, fuels, emissions, monitoring, recordkeeping, reporting, operation of air pollution control devices, and the like. The owner or operator shall also comply with the applicable Rules of 62-4, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C.

   [Rule 62-4.070, F.A.C.]

8. Source Obligation:

   (a) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   (b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   [Rule 62-212.400(12), F.A.C.]

9. Application for Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation. The permittee shall apply for a Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation of the emissions unit as modified in accordance with the authorizations of this construction permit. To apply for a Title V operation permit revision, the applicant shall submit the appropriate application form, compliance test results (if required), and such additional information as the Department may by law require.

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

Subsection A: Limestone Filler Heater (EU 003)

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
003	Limestone Filler Heater

{This Emissions Unit is regulated under Reasonably Available Control Technology (RACT) requirements including Specific RACT Emission Limiting Standards for Stationary Emission Units [Rule 62-296.700(3), FAC, and Rule 2.1101, JEPB]; Maximum Allowable Emission Rates [Rule 62-296.700(4), FAC, and Rule 2.1101, JEPB]; Circumvention [Rule 62-296.700(5), FAC, and Rule 2.1101, JEPB], Operation and Maintenance Plan [Rule 62-296.700(6), FAC, and Rule 2.1101, JEPB] and Rule 62-296.711, F.A.C Materials Handling, Sizing, Screening, Crushing and Grinding Operations }

A.0. **Relation to Other Permits:** The conditions of this permit supplements all other previously issued air construction and operation permits for this emissions unit. These conditions are in addition to all other applicable permit conditions and regulatory requirements. The Permittee shall continue to comply with the conditions of those permits, which include restrictions and standards regarding capacities, production, operation, fuels, emissions, monitoring, recordkeeping, reporting, and the like.

[Rules 62-4.210, 62-4.030, and 62-210.300(1)(b), F.A.C.]

A.1. **Equipment:** The permittee is authorized to install and operate (for purposes of testing and unit shakedown) a new Donaldson Company (Torit) 2,680 acfm CPV4 Dust Collector for the control of particulate matter emissions from the Limestone Filler Heater (EU003).

[Application No. 0310050-019-AC]

A.2. **Control Unit:** The emissions from the dust collector shall be controlled by the permitted (2,680 acfm CPV4 Dust Collector). The dust collector shall be in operation at all times during operation of the Limestone Filler Heater. If there is a malfunction on the control unit, the owner or operator shall shut down the baghouse fan immediately to minimize excess emissions.

[Rule 62-210.700(1), F.A.C, Rule 62-4.070(3) F.A.C]

EMMISIONS LIMITATIONS AND STANDARDS

A.3. **Particulate Matter Emissions:** PM emissions shall be limited to 0.03 gr/dscf [0.69lbs/hr and 3.01TPY].

[Rule 62- 296.711(2)(b), FAC, and Rule 2.1101, JEPB]

A.4. **Particulate Matter Emissions -Initial Compliance Test:** Compliance with Condition A.3. shall be determined by a visible emissions test indicating no visible emissions (5 percent opacity) from the dust collector in lieu of a Particulate Matter (PM) emissions stack test.

Testing for demonstration of compliance for PM emissions shall be performed, upon request of the Department and in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A). The minimum sample volume shall be 30 dry standard cubic feet.

Subsection A: Limestone Filler Heater (EU 003)

[Rules 62-297.620, 62-296.711(3)(c),F.A.C.,62-204.800(8)(e)3. F.A.C.; and Rules 2.1101, 2.1201, and 2.201 JEPB]

A.5. **Visible Emissions - Initial Compliance Test**: Initial compliance test shall be conducted within 180 days after start-up of the new system and the testing results submitted to the Department with the Title V Air Operation permit revision application or within 45 days of completion of testing, whichever occurs first.

[Rules 62-4.070(3), 62-297.310(8)(b), F.A.C.; and Rules 2.1401 and 2.1101, JEPB]

A.6. **Test Method (VE):** The test method for visible emissions shall be shall be EPA Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C. The test shall be conducted by an observer certified in accordance with the requirements of Rule 62-297.320, F.A.C. – Standards for Persons Engaged in Visible Emissions Observations (specified in Subsection D). 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.

[Rules 62-296.711(3)(a), 62-297.620(4),and 62-204.800(8)(e)3. F.A.C.; Appendix A of 40 CFR 60and Rules 2.1101, 2.1201, and 2.201 JEPB]

A.7. **Visible Emissions - Subsequent Compliance Tests:** VE testing shall be conducted annually. VE testing shall be conducted for a minimum period of 30 minutes.

[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

RECORDS AND REPORTS

A.8. This Facility is subject to SECTION 2. Administrative Requirements of this permit and also, the attached Appendices.

A.9. **Initial Start up date Notification**: The owner or operator shall notify the compliance authority in writing 30 days prior to the initial startup date of the control unit.

[Rules 62-4.070(3), 62-297.310(8)(b), F.A.C]

Subsection A: Limestone Filler Heater (EU 003)

A.10. The permittee shall submit the Operation and Maintenance Plan, including baghouse model no., manufacturer's specifications, and other descriptive and operational information required (see Rule 62-296.700(6), F.A.C. and Rule 2.1101, JEPB), with the Title V Air Operation permit revision application.

[Rule 62-296.700(6), F.A.C.; and Rule 2.1101, JEPB]

Subsection B: Sand System (EU 045)

ID No.	Emission Unit Description
045	Sand System

{This Emissions Unit is regulated under Reasonably Available Control Technology (RACT) requirements including Specific RACT Emission Limiting Standards for Stationary Emission Units [Rule 62-296.700(3), FAC, and Rule 2.1101, JEPB]; Maximum Allowable Emission Rates [Rule 62-296.700(4), FAC, and Rule 2.1101, JEPB]; Circumvention [Rule 62-296.700(5), FAC, and Rule 2.1101, JEPB], Operation and Maintenance Plan [Rule 62-296.700(6), FAC, and Rule 2.1101, JEPB] and Rule 62-296.711, F.A.C Materials Handling, Sizing, Screening, Crushing and Grinding Operations }

B.1 **Equipment:** The permittee is authorized to install and operate (for purposes of testing and unit shakedown) a new Donaldson Company (Torit) 8,530 acfm 64FTD Dust Collector for the control of particulate matter emissions for the Sand System (EU045).

[Application No. 0310050-019-AC]

B.2. **Control Unit:** The emissions from the dust collector shall be controlled by the permitted (8,530 acfm 64FTD Dust Collector). The dust collector shall be in operation at all times during operation of the sand system. If there is a malfunction on the control unit, the owner or operator shall shut down the baghouse fan immediately to minimize excess emissions.

[Rule 62-210.700(1), F.A.C, Rule 62-4.070(3) F.A.C]

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

B.3. **Hours of Operation:** The hours of operation are not limited (8760 hours per year).

[Rule 62-210.200(PTE) F.A.C.; and Rule 2.301, JEPB, Application No. 0310050-019-AC]

B.4. **Process Rate:** The estimated maximum process throughput rate to the sand system is 20.0 TPH.

[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.; Rule 2.1101, JEPB, Application No. 0310050-019-AC]

EMMISIONS LIMITATIONS AND STANDARDS

B.5. **Particulate Matter Emissions:** PM emissions (from control unit) vent or stack shall not exceed 0.03 grains per dry standard cubic foot, equivalent emissions 2.20 pounds per hour and 9.61 tons per year.

[Rule 62-296.711(2)(b), F.A.C., and Rule 2.1101, JEPB Application No. 0310050-019-AC]

B.6. **Visible Emissions:** Visible emissions (from control unit) shall not exceed five (5) percent (%) opacity.

[Rules 62-296.711(2)(a) and 62-297.620(4), F.A.C., and Rules 2.1101 and 2.1201, JEPB]

TEST METHODS AND PROCEDURES

B.7. **Particulate Matter - Initial Compliance Test:** Compliance with Condition B.5. Shall be determined by a visible emissions test indicating no visible emissions (5 percent opacity) from the dust collector in lieu of a P.M. stack test.

Testing for demonstration of compliance for P.M. shall be performed, upon request of the Department, in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter. The minimum sample volume shall be 30 dry standard cubic feet.

[Rules 62-297.620, 62-296.711(3)(c),F.A.C. ,62-204.800(8)(e)3. F.A.C.; and Rules 2.1101, 2.1201, and 2.201 JEPB]

B.8. **Visible Emissions - Initial Compliance Test**: Initial compliance test shall be conducted within 180 days after start-up of the new system and the testing results submitted to the Department with the Title V Air Operation permit revision application or within 45 days of completion of testing, whichever occurs first.

[Rules 62-4.070(3), 62-297.310(8)(b), F.A.C.; and Rules 2.1401 and 2.1101, JEPB]

B.9. **Test Method (VE):** The test method for visible emissions shall be shall be EPA Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C. The test shall be conducted by an observer certified in accordance with the requirements of Rule 62-297.320, F.A.C. – Standards for Persons Engaged in Visible Emissions Observations (specified in Subsection D). The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C.

[Rules 62-296.711(3)(a), 62-297.620(4),and 62-204.800(8)(e)3. F.A.C.; Appendix A of 40 CFR 60and Rules 2.1101, 2.1201, and 2.201 JEPB]

B.10. **Visible Emissions - Subsequent Compliance Tests:** VE testing shall be conducted annually. VE testing shall be conducted for a minimum period of 30 minutes.

[Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

RECORDS AND REPORTS

B.11. This Facility is subject to SECTION 2. Administrative Requirements of this permit and also, the attached Appendices.

B.12. **Initial Start up Date Notification**: The owner or operator shall notify the compliance authority in writing 30 days prior to the initial startup date of the control unit.

[Rules 62-4.070(3), 62-297.310(8)(b), F.A.C]

B.13. The permittee shall submit the Operation and Maintenance Plan, including baghouse model no., manufacturer's specifications, and other descriptive and operational information required (see Rule 62-296.700(6), F.A.C. and Rule 2.1101, JEPB), with the Title V Air Operation permit revision application.

[Rule 62-296.700(6), F.A.C.; and Rule 2.1101, JEPB]