



# Florida Department of Environmental Protection

Northeast District  
8800 Baymeadows Way West, Suite 100  
Jacksonville, Florida 32256

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Jonathan P. Steverson  
Secretary

## PERMITTEE

Owens Corning  
1035 Talleyrand Ave  
Jacksonville, Florida 32206

Air Permit No. 0310050-024-AC  
Permit Expires: **October 20, 2017**  
Minor Air Construction Permit

Authorized Representative:  
Tara Waresvka, Site Leader

Jacksonville Plant  
(EU002) Limestone Transfer System  
(Upper Surge Hopper) new baghouse

## PROJECT

This is the final air construction permit, which authorizes replacement of an existing baghouse controlling the emissions from the (EU002) Limestone Transfer System (Upper Surge Hopper). The proposed work will be conducted at the existing Owens Corning, Jacksonville Plant located at 1035 Talleyrand Avenue, located in Duval County (Standard Industrial Classification No. 2952); UTM Coordinates: Zone 17, 439.5 km East and 3356.2 km North. Latitude: 30° 20' 14.9675" North and Longitude: 81° 37' 48.2012" West.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and 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.

## STATEMENT OF BASIS

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

A handwritten signature in blue ink, reading "Richard S. Rachal III".

Richard S. Rachal III, P.G.  
Program Administrator  
Permitting Program

**CERTIFICATE OF SERVICE**

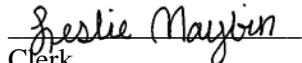
The undersigned duly designated deputy agency clerk hereby certifies that this Air Permit package was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

Tara Waresvka, Site Leader, Owens Corning, ([tara.waresvka@owenscorning.com](mailto:tara.waresvka@owenscorning.com))

Karen Lyons, EHS Leader, Owens Corning, ([karen.lyons@owenscorning.com](mailto:karen.lyons@owenscorning.com))

Thomas Young, Trinity Consultants, ([Tyoung@trinityconsultants.com](mailto:Tyoung@trinityconsultants.com))

Brad James, P.E., Trinity Consultants, ([BJames@trinityconsultants.com](mailto:BJames@trinityconsultants.com))

  
Clerk

October 20, 2016  
Date

## SECTION 1. GENERAL INFORMATION (FINAL)

### FACILITY 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 existing facility consists of the following emissions units.

| Facility ID No. 0310050 |  |
|-------------------------|--|
| ID No.                  | Emission Unit Description                      |
| 001                     | Bulk Limestone Storage Silo No. 1              |
| 002                     | Limestone Transfer System (Upper Surge Hopper) |
| 003                     | Limestone Filler Heater                        |
| 004                     | Bulk Limestone Storage Silo No. 2              |
| 012                     | Asphalt Blowing Still Nos. 1 and 2             |
| 015                     | Asphalt Storage Tank Nos. 15 and 47            |
| 021                     | Adhesive Tank                                  |
| 028                     | Mineral Application System (Surfacing Area)    |
| 029                     | Bulk Granule Handling System                   |
| 030                     | Shingle Laminator System                       |
| 031                     | Adhesive Tank (MLA)                            |
| 034                     | Asphalt Coater System No.                      |
| 037                     | Steam Generator                                |
| 038                     | Coating Tank No. 1                             |
| 039                     | Asphalt Storage Tank No. 4                     |
| 040                     | Storage Tank No. 46                            |
| 042                     | Mat Unwind Dry Loop Process                    |
| 043                     | Sealant Storage Tank Nos. 44 and 45            |
| 044                     | Emergency Stationary RICE                      |
| 045                     | Sand System                                    |
| 046                     | Spray Application System                       |

### PROPOSED PROJECT

The facility proposes to replace an existing baghouse controlling PM emissions from (EU002) Limestone Transfer System at the Jacksonville plant. Exhaust from (EU002) are currently controlled by a bin vent dust collector. The facility is proposing to replace the existing baghouse with a new, larger baghouse rated with a maximum air exhaust flow rate of 2,370 acfm<sup>1</sup>. There will be no increase in production rate or other process throughputs as a result of the proposed project. However, since the air exhaust flow rate is increasing, the maximum allowable emissions of PM will increase as a result of the proposed project.

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## SECTION 1. GENERAL INFORMATION (FINAL)

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<sup>1</sup> This represents an air-to-cloth ratio of 5:1. See page 9 of the attached Technical Evaluation (TEPD) for manufacturer drawings.

This project will modify the following emissions units.

| Facility ID No. 0310050 |  |
|-------------------------|--|
| ID No.                  | Emission Unit Description                      |
| 002                     | Limestone Transfer System (Upper Surge Hopper) |

### FACILITY REGULATORY CLASSIFICATION

- The facility **is not** a major source of hazardous air pollutants (HAP). It is a **synthetic minor source** of hazardous air pollutants (HAP) with limitations such that individual HAP emissions are less than 10 TPY and combined HAP emissions are less than 25 TPY.
- The facility **does not** operate 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 62-213, 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 (FINAL)

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1. Permitting Authority: The permitting authority for this project is the Northeast District Office, Permitting Program, Florida Department of Environmental Protection (Department). The Northeast District Office's mailing address is 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: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Northeast District Office (Compliance Assurance) at: 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256, (904) 256-1700.
3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); and 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. Construction and Expiration: The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires. [Rules 62-4.070(3) & (4), 62-4.080 & 62-210.300(1), F.A.C.]
8. Source Obligation:
  - a. Authorization to construct shall expire if construction is not commenced within 18 months after receipt of the permit, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. This provision does not apply to the time period between construction of the approved phases of a phased construction project except that each phase must commence construction within 18 months of the commencement date established by the Department in the permit.
  - 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 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.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

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- c. 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 to determine compliance with Department rules. A Title V air operation permit is required for regular operation of the permitted emissions unit. 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. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050 and Chapter 62-213, F.A.C.]

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

#### B. EU002 Limestone Transfer System (Upper Surge Hopper)

This section of the permit addresses the following emissions unit.

| EU No. | Emission Unit Description   |
|--------|---|
| 002    | Limestone Transfer System (Upper Surge Hopper)<br><br>Stack height 78'. |

Bulk limestone is transferred from the storage silo(s) to the filler heater through the transfer system and the upper surge hopper. Particulate Matter (PM) control device: CAMCORP Model 8PRT37 Pulse-Jet Baghouse Dust Collector or equivalent rated with a maximum air exhaust flow rate of 2,370 actual cubic foot per minute (acfm).

{ 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], [Rule 62-296.700(6), FAC, and Rule 2.1101, JEPB] }

#### EQUIPMENT

**B.1. Relation to Other Permits.** The conditions of this permit supplements all other previously issued air construction and operation permits for these emissions units. 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.]

**B.2. Equipment Name.** The permittee is authorized to replace the current bin vent dust collector on the Upper Surge Hopper with a CAMCORP Model 8PRT37 Pulse-Jet Baghouse Dust Collector or equivalent.

The construction shall be in accordance with the application and associated documents provided to the Permitting Authority for the issuance of this permit. Any changes to the project that are contrary to these documents and permit shall be reported in writing to the Permitting Authority by the P.E. of Record.

[Application No. 0310050-024-AC]

#### PERFORMANCE RESTRICTIONS

**B.3. Process Rate.** This permit does not add to or modify the existing permitting process rate. The estimated maximum process input rate to the limestone transfer system is 25.5 TPH of crushed limestone.

[Rule 62-296.700(4), F.A.C. and Rule 2.1101, JEPB; and Application No. 0310050-024-AC]

**B.4. Hours of Operation.** This emissions unit may operate continuously (8,760 hours/year).

[Rule 62-210.200(PTE), F.A.C.; and Rule 2.301, JEPB]

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### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

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#### B. EU002 Limestone Transfer System (Upper Surge Hopper)

##### EMISSIONS STANDARDS

**B.5. PM/PM<sub>10</sub> Emissions.** PM emissions shall be limited to 0.03 gr/dscf [0.41 lbs/hr and 1.78 TPY<sup>1</sup>].

<sup>1</sup>Emission units subject to RACT PM emission limitation 0.03 gr/dscf, but potential emissions determined from calculation methodology of controlled grain loading is conservatively assumed to be 0.02 gr/dscf for dust collectors at Owens Corning's Jacksonville plant.

[Rule 62-296.711(2)(b), F.A.C.; and Rule 2.1101, JEPB; and Application No. 0310050-024-AC]

**B.6. Visible Emissions.** This permit does not add to or modify the existing emissions standard. VE shall be limited to five (5) percent (%) opacity.

[Rule 62-296.711(2)(a), F.A.C.; Rule 2.1101, JEPB; and Application No. 0310050-024-A]

##### TEST METHODS AND PROCEDURES

**B.7. Testing Method.** Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.

[Rule 62-296.711(3), F.A.C.; and Rule 2.1101, JEPB]

**B.8. Initial VE Compliance Tests.** The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for VE. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit after installing the new baghouse.

[Rules 62-4.070(3) and 62-297.310(8)(b)1, F.A.C.; and Application No. 0310050-024-AC]

**B.9. Annual VE Compliance Tests.** This permit does not add to or modify the existing testing requirements. VE testing shall be conducted annually i.e. no less frequently than once every calendar year (January 1<sup>st</sup> to December 31<sup>st</sup>). VE testing shall be conducted for a minimum period of 30 minutes.

[Rule 62-297.310(8)(a)1., FAC, and Rule 2.1201, JEPB]

**B.10. PM/PM<sub>10</sub> Testing.** Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 5 (as described in 40 CFR 60, Appendix A), for the determination of the PM concentration.

[Rule 62-296.711(3), FAC, and Rule 2.1101, JEPB]

**B.11. PM/PM<sub>10</sub> Testing.** PM testing shall be conducted upon request of the Permitting Authority.

[Rule 62-296.711(3), FAC, and Rule 2.1101, JEPB]



### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

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#### B. EU002 Limestone Transfer System (Upper Surge Hopper)

**B.12. Commencement of Construction and Operation.** The permittee shall submit to the Air Compliance Authority of this Office written notification of both the date of commencement of construction and commencement of operation of the new baghouse at (EU002) Limestone Transfer System (Upper Surge Hopper). These notifications shall be submitted to Mr. Christopher Kirts at [Christopher.kirts@dep.state.fl.us](mailto:Christopher.kirts@dep.state.fl.us), within as many days prior to the date of construction as practical, but no later than fifteen (15) business day following commencement of construction and operation.

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

**B.13.** This facility is subject to the attached Combined Appendices.