



Florida Department of Environmental Protection

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

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

PERMITTEE

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

Authorized Representative:
Ms. Tara Waresvka, Site Leader

Air Permit No. 0310050-026-AC
Permit Expires: **December 20, 2018**
Minor Air Construction Permit
Jacksonville Plant
Replace the existing preheater fume incinerator
(ID CD012) for EU 012 Asphalt Blowing Still
Nos. 1 and 2.

PROJECT

This is the final air construction permit, which authorizes the replacement of the existing control device Preheater Fume Incinerator (ID. CD012). The new unit will have an upgraded burner with a larger capacity and burner size. The new burner will have a design capacity rated with a maximum heat input rate of 12.4 million British Thermal Units per hour (MMBtu/hr) and only capable of being fired with natural gas. The facility operates the Preheater Fume Incinerator (ID. CD012) to control emissions from Emissions Unit (EU) 012-Asphalt Blowing Still Nos. 1 and 2, and for a portion of the facility's asphalt, coating, and storage tanks EU 015-Asphalt Storage Tanks Nos. 15 and 47, EU 018-Asphalt Storage Tanks Nos. 48 and 49, EU 038-Coating Tank No. 1, EU 039-Asphalt Storage Tank No. 42, EU 040-Storage Tank No. 46, and EU 043-Storage Tanks Nos. 44 and 45. The Preheater Fume Incinerator also functions as an asphalt preheater which is classified as unregulated emission unit EU 014 for Asphalt Blowing Still Nos. 1 and 2. The proposed work will be conducted at the existing Jacksonville Plant, which is an Asphalt Felts and Coatings facility categorized under Standard Industrial Classification No. 2952. The existing facility is located in Duval County at 1035 Talleyrand Avenue in Jacksonville, Florida. The UTM coordinates are Zone 17, 439.5 km East and 3356.2 km North; Latitude: 30° 20' 12" North and Longitude: 81° 37' 53" 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.

FINAL PERMIT

Executed in Jacksonville, Florida

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Michelle Neeley
Program Manager
Environmental Permitting

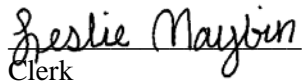
CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this permit and all copies were sent on the filing date below to the following listed persons:

Tara Waresvka, Site Leader, Owens Corning Roofing and Asphalt, LLC, tara.waresvka@owenscorning.com
Adam Hansborough, Senior Consultant, Trinity Consultants, ahansborough@trinityconsultants.com.
Karen Lyons, EHS Leader, Owens Corning Roofing and Asphalt, LLC, karen.lyons@owenscorning.com.
Christopher Kirts, Compliance and Assurance Section, FDEP - Christopher.Kirts@dep.state.fl.us.

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

December 20, 2017
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 (EUs).

EU No.	Brief 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. 2
037	Steam Generator
038	Coating Tank No. 1
039	Asphalt Storage Tank No. 42
040	Storage Tank No. 46
043	Sealant Storage Tank Nos. 44 and 45
044	Emergency Stationary RICE
045	Sand System
046	Spray Application System

PROPOSED PROJECT

Air Construction permit authorized to replace the existing control device Preheater Fume Incinerator (ID. CD012). The new unit will have an upgraded burner with a larger capacity and burner size. The new burner will have a design capacity rated with a maximum heat input rate of 12.4 million British Thermal Units per hour (MMBtu/hr) and only capable of being fired with natural gas. The facility operates the Preheater Fume Incinerator (ID. CD012) to control emissions from Emissions Unit (EU) 012- Asphalt Blowing Still Nos. 1 and 2, and for a portion of the facility's asphalt, coating, and storage tanks EU 015-Asphalt Storage Tanks Nos. 15 and 47, EU 018-Asphalt Storage Tanks Nos. 48 and 49, EU 038-Coating Tank No. 1, EU 039-Asphalt Storage Tank No. 42, EU 040-Storage Tank No. 46, and EU 043-Storage Tanks Nos. 44 and 45. The Preheater Fume Incinerator also functions as an asphalt preheater which is classified as unregulated emission unit EU 014 for Asphalt Blowing Still Nos. 1 and 2.

SECTION 1. GENERAL INFORMATION (FINAL)

There shall be no increase in production rate or other process throughputs as a result of the proposed project.

The following existing emissions units (EU) will be affected by this project.

EU No.	Description
012	Asphalt Blowing Still Nos. 1 and 2.
015	Asphalt Storage Tanks Nos. 15 and 4
018 ¹	Asphalt Storage Tanks Nos. 48 and 49
038	Coating Tank No. 1
039	Asphalt Storage Tanks Nos. 48 and 49, (EU038) Coating Tank No. 1, (EU039)
040	Storage Tank No. 46
043	Storage Tanks Nos. 44 and 45

¹ Unregulated EU

FACILITY REGULATORY CLASSIFICATION

- The facility **is not** a major source of hazardous air pollutants (HAP).
- 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. and Rule 2.501, JEPB.
- The facility **is not** a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C. and Rule 2.401, JEPB
- The facility **does** operate units subject to the New Source Performance Standards (NSPS) of Title 40 Part 60 of the Code of Federal Regulations (40 CFR 60).
- The facility **does** operate units subject to the National Emissions Standards of Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

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); Appendix D (Common Testing Requirements); and Appendix E (Local Rule Index).
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. and Rule 2.1401, JEPB]
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. Rule 2.301, JEPB, and Rule 2.401, JEPB]
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. Rule 2.1401, JEPB, Rule 2.301, JEPB]
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)

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

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.; and Rule 2.401, JEPB]

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. Rule 2.1401, JEPB; and Rule 2.501, JEPB]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

EU012 Asphalt Blowing Still Nos. 1 and 2

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
012	Asphalt Blowing Still Nos. 1 and 2 Emission Unit Description: Asphalt is processed through the addition of air and chemical additives. Pollutant Control Device: Air pollution emissions are controlled through the use of the fume incinerator, which also functions as an asphalt preheater.

{This Emissions Unit is regulated under 40 CFR 60, Subpart UU, Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture and 40 CFR 60, Subpart A, General Provisions shall apply to this emission unit; 40 CFR 63, Subpart AAAAAAA, National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing and the General Provision (40 CFR Part 63, Subpart A) as specified in Table 5 of 40 CFR 63, Subpart AAAAAAA.}

EQUIPMENT

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; 2.1401, JEPB; 62-210.300(1)(b), F.A.C. and Rule 2.301 JEPB]

PROPOSED CONSTRUCTION WORK

2. Equipment: The permittee is authorized to replace the existing control device Preheater Fume Incinerator (CD012). The new unit will have an upgraded burner with a larger capacity and burner size.
 - The North American 4545 Flame-Jet Gas Burner or equivalent shall have a design capacity rated not to exceed a maximum heat input rate of 12.4 million British Thermal Units per hour (MMBtu/hr)¹.
 - The unit will include a Smartlink system which shall monitor the efficiency of the unit.
 - The new preheater fume incinerator shall control emissions from (EU012) Asphalt Blowing Still Nos. 1 and 2, and for a portion of the facility's asphalt, coating, and storage tanks (EU015) Asphalt Storage Tanks Nos. 15 and 47, unregulated (EU018) Asphalt Storage Tanks Nos. 48 and 49, (EU038) Coating Tank No. 1, (EU039) Asphalt Storage Tank No. 42, (EU040) Storage Tank No. 46, (EU043) Storage Tanks Nos. 44 and 45.
 - The facility shall shut-down, dismantle and remove the existing 5 MMBtu/hr natural gas burner.

¹This represents a heat input at a maximum pressure drop across the burner of 16 ounce-force per square inch (osi) for conservative estimates.

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. 0310050-026-AC]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

EU012 Asphalt Blowing Still Nos. 1 and 2

PERFORMANCE RESTRICTIONS

3. Authorized Fuel: The preheater fume incinerator shall only combust natural gas.
[Application No. 0310050-026-AC; Rule 62-210.200(PTE), F.A.C.; and Rule 2.301 JEPB]
4. Hours of Operation: The hours of operation are not limited (8,760 hours/year).
[Rules 62-4.070(3); 2.1401, JEPB; 62-210.200(PTE), F.A.C.; and Rule 2.301 JEPB]
5. This permit does not allow any increases in production rate or other process throughputs as a result of the proposed project. The control efficiency of the new Preheater Fume Incinerator (CD012) shall be such that the particulate matter (PM) meets the requirements in **Specific Condition No. 8**, and visible emissions (VE) **Specific Condition No. 9**.

OPERATION AND MAINTENANCE

6. The Permittee shall operate and maintain the new preheater fume incinerator in accordance with the manufacturer's instructions and requirements. The preheater fume incinerator shall be online, functioning properly, and in operation in accordance with the manufacturer's recommendations whenever EUs 012, 015, 018, 038, 039, 040 and 043 are in operation
[Rule 62-4.070(3), F.A.C.; and Rule 2.1401, JEPB]
7. Circumvention. The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly.
[Rule 62-210.650, F.A.C.; and Rule 2.301 JEPB]

EMISSIONS STANDARDS

8. Emissions Standards: This permit does not alter any emissions standards for (EU012) Asphalt Blowing Still Nos. 1 and 2.
PM Emissions. PM emissions shall be limited to 0.60 kg/megagram (1.2 lbs/Ton) [63.45 lbs/hr and 124.10 TPY] of asphalt charged (non-catalyst mode).
[40 CFR 60.472(b)(1), 40 CFR 63.11561(a) and Rule 62-204.800, FAC, and Rule 2.201, JEPB]
9. VE Emissions. VE shall be limited to zero (0) percent (%) opacity.
[40 CFR 60.472(b)(5); Rule 62-204.800, FAC, and Rule 2.201, JEPB]

This permit also, does not alter any emissions standards for (EU015) Asphalt Storage Tanks Nos. 15 and 47, (EU018) Asphalt Storage Tanks Nos. 48 and 49, (EU038) Coating Tank No. 1, (EU039) Asphalt Storage Tank No. 42, (EU040) Storage Tank No. 46, (EU043) Storage Tanks Nos. 44 and 45 from the current Title V Permit No. 0310050-025-AV.

TESTING REQUIREMENTS

10. Initial Compliance Tests (EU012): The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for particulate matter (PM) **Specific Condition No. 8**, and visible emissions (VE) **Specific Condition No. 9**. 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.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

EU012 Asphalt Blowing Still Nos. 1 and 2

Specific Condition No. 10. Continued:

{Permitting Note: A VE test at EU012 will suffice for testing at EU 015, EU 038, EU 039, EU 040, and EU0 43 since they are all vented to the preheater fume incinerator and are all typically operating simultaneously. PM testing is only required on EU012.}

[Rules 62-4.070(3); 2.1401, JEPB; 62-297.310(8)(b)1, F.A.C.; 2.1201, JEPB]

11. Annual Compliance Tests (EU 012): During each calendar year (January 1st to December 31st), the EU shall be tested to demonstrate compliance with the emissions standards for PM and VE. VE testing shall be conducted concurrently with each PM test. Both PM and VE testing shall be for a minimum period of 30 minutes.

[Rules 62-297.310(8)(a)1, F.A.C.; and 2.1201, JEPB]

12. Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rules 62-297.310(9), F.A.C.; and 2.1201, JEPB]

13. Test Methods: Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
5	Method for Determining Particulate Matter Emissions
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in Appendix A-3 and A-4 of 40 CFR 60 and are 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.

[Rules 62-204.800, F.A.C.; Appendix A-3 and A-4 of 40 CFR 60; Rule 62-297.310(8)(a)1., FA.C., and Rule 2.1201, JEPB]

MONITORING REQUIREMENTS

14. The permittee shall continuously monitor and record the temperature in the combustion zone of the fume incinerator (preheater) control device. The temperature monitoring instrument shall have an accuracy of +/- 10 degrees Centigrade over its range.

[40 CFR 60.473(b), Rule 62-204.800, FAC and Rule 2.201, JEPB]

NOTIFICATIONS, RECORDS AND REPORTS

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

[Rules 62-297.310(10), F.A.C.; and 2.1201, JEPB]

16. The permittee shall continue to comply with all the recordkeeping and reporting requirements in the current Title V Permit No. 0310050-025-AV for this emissions unit.

[Rule2 62-4.070(3), F.A.C.; 2.1401, JEPB]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

EU012 Asphalt Blowing Still Nos. 1 and 2

17. Notification. The permittee shall submit notification of intent to conduct a compliance test at least 60 calendar days before the compliance test is scheduled to begin, as required in 40 CFR 63.7(b)(1).

[Rule 40 CFR 63.7(b)(1), Rule 62-204.800, F.A.C., and Rule 2.201, JEPB]

18. Commencement of Construction: The permittee shall submit to the Air Compliance Authority of this Office written notification of both the date of commencement of construction and the date of startup of the replacement Preheater Fume Incinerator (CD012) listed in **Specific Condition No. 2**. This notification shall be submitted or postmarked within as many days prior to the date of construction/startup as practical, but no later than thirty (30) business day following commencement of construction/startup to Christopher Kirts at Christopher.Kirts@dep.state.fl.us.

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