TECHNICAL EVALUATION

AND

PRELIMINARY DETERMINATION

I. GENERAL INFORMATION

A. APPLICANT

Owens Corning
Jacksonville Roofing & Asphalt Plant
1035 Talleyrand Ave.
Jacksonville, FL 32224

Permit No. 0310050-010-AC
County: Duval

B. PROJECT

The applicant, Owens Corning, applied on December 21, 2007, to the Department for a permit to construct a new asphaltic material storage tank [emission unit (EU) no. 040], modify an existng unused asphaltic storage tank (EU no. 040), construction of a rubber material (supersack) unloading hopper and conveyor (EU no. 041), the inclusion of laminate adhesive and sealant material loading into tanker trucks at the loading rack (EU no. 019), and modification of the mat unwind dry loop process (EU no. 042) by the addition of a dust collector to control particulate matter emissions.

II. RULE APPLICABILITY

The facility is located in an area designated as unclassifiable for the air pollutants lead, sulfur dioxide, and particulate matter less than or equal to ten (10) micrometers in aerodynamic diameter, and in an air quality maintenance area for the air pollutants particulate matter (PM) and ozone. The area is classified as attainment for all other criteria pollutants pursuant to Rule 62-204, Florida Administrative Code (FAC), and Rule 2.201, Jacksonville Environmental Protection Board (JEPB).

Prevention of Significant Deterioration (PSD) requirements do not apply since the facility potential emissions of any one regulated pollutant is less than 250 tons per year thereby making the facility **minor** for PSD purposes, and the modification itself is minor (ie: potential to emit less than 250 tons per year) for PSD purposes.

The facility is a Title V source of air pollution because the potential emissions of regulated air pollutants are greater than or equal to 100 tons per year pursuant to Rule 62-210, FAC, and JEPB Rule 2.301.

40 CFR 60, Subpart UU, Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture, 40 CFR 60, Subpart A, General Provisions shall apply to EU no. 040 and Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emissions Units** [Rule 62-296.700(3), FAC, and Rule 2.1001, JEPB]**; Maximum Allowable Emission Rates** [Rule 62-296.700(4), FAC, and Rule 2.1001, JEPB]; **Circumvention** [Rule 62-296.700(5), FAC, and Rule 2.1001, JEPB], and **Operation and Maintenance Plan** [Rule 62-296.700(6), FAC, and Rule 2.1001, JEPB] shall apply to EU no. 042. The project shall be subject to Rule 62-296.320(2), FAC, Rule 2.1001, JEPB, and City of Jacksonville Ordinance Code, Chapter 376 limiting the emission of objectionable odors. EU no. 019 will remain as an unregulated EU and EU no. 041 will be classified as an unregulated EU. Please note that unregulated EUs are solely listed in Appendix U of the Title V Air Operating permit.

III. TECHNICAL EVALUATION

Emission Unit No. 019-Tank Truck Loading Rack Nos. 1 and 2

In addition to currently loaded asphaltic products Rack no. 2 will also be used for loading of laminate adhesive and sealant products. Emissions generated from the loading process shall continue to be vented to the existing fiber bed filter control device.

Emission Unit No. 040-Storage Tank Nos. 45 and 46

New storage tank no. 45 (capacity of 25,000 gallons) will be used to process and/or store laminate adhesive and sealant material. Storage Tank no. 46 (capacity of 9,954 gallons) will be relocated next to storage tank no. 45. Storage Tank no. 46 will be used to store hard oxidized asphalt. Pollutant emissions generated from these tanks shall be vented to the fume incinerator which is also known as the asphalt blowing still pre-heater.

Emission Unit No. 041- Rubber material (supersack) unloading hopper and conveyor

Rubber material to be used in asphaltic laminate adhesive and sealant production is unloaded from approximately 1000 pound bags into a hopper and then transferred by enclosed conveyor to storage tank no. 45. Dust suppressant inherent in the rubber material minimizes particulate matter emissions.

Emission Unit No. 042-Mat Unwind Dry Loop Process

The asphalt shingle dry mat is unwound in a dry looper. Particulate matter emissions generated by the process shall be collected by a MAC dust collector, Model No. LST, with a rated capacity of 10,000 actual cubic feet per minute flow rate. Maximum allowable PM emissions shall be limited to 0.03 grains per dry standard cubic foot [2.57 pounds per hour and 11.26 tons per year].

IV. CONCLUSION

Based upon information provided by Owens Corning, Jacksonville Asphalt & Roofing Plant, the Department has reasonable assurance that the proposed construction/modification of the above referenced emission units, as described in this evaluation and subject to the conditions proposed herein, will not cause, or contribute to a violation of any ambient air quality standard or other technical provision of Chapters 62-296 and 62-297, FAC, JEPB Rules 2.1001 and 2.1101.

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