TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION

I. GENERAL INFORMATION

A. APPLICANT

United States Marine Corps
Marine Corps Support Facility - Blount Island
5880 Channel View Blvd.
Jacksonville, FL 32226

Draft Permit No.: 0310099-008-AC
County: Duval

B. PROJECT

This Air Construction Permit is for the replacement of the dust collectors on Emission Unit No. 001, the Abrasive Blast Booth, at the Marine Corps Support Facility - Blount Island. The Marine Corps Support Facility - Blount Island is located at 5880 Channel View Blvd, Jacksonville, FL 32226.

II. RULE APPLICABILITY

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

The facility is a major source of air pollution because the potential emissions of regulated air pollutants are greater than 100 tons per year and/or the potential emissions of Hazardous Air Pollutants (HAP) are greater than 10 tons per year for a single HAP and/or greater than 25 tons per year for total HAP pursuant to Chapter 62-210, FAC, and Rule 2.301, JEPB.

III. TECHNICAL EVALUATION

Emissions Unit No. 001 - Abrasive Blast Booth

Removal of paint from refrigerated/non-refrigerated freight containers and principal end items such as chassis loading systems, front-end loaders, etc. The abrasive blast media utilized is aluminum oxide and steel shot. Aluminum oxide blast media is used on aluminum substrate and steel shot is used on steel substrate. Particulate matter (PM) Control Devices – Wheelabrator Jet Pulse Cartridge Dust Collector, Model JPSMA – 5D125 and Wheelabrator-Frye Model 704C Dust Collector (ducted into the Mechanical Room).

The maximum hourly abrasive blast media usage shall not exceed 18.0 tons.

The nominal volumetric flow rate from this emissions unit is 87,000 cubic feet per minute.

The hours of operation for this emissions unit shall not exceed 4,160 hours per year.

PM emissions shall not exceed 0.03 grains per dry standard cubic feet [22.37 pounds per hour, and 46.53 tons per year].

Visible emissions (VE) shall not exceed 5 percent opacity.

IV. CONCLUSION

Based upon information provided by the United States Marine Corps, the Department has reasonable assurance that the proposed modifications, 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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