# TECHNICAL EVALUATION

# AND

# PRELIMINARY DETERMINATION

## I. GENERAL INFORMATION

### A. APPLICANT

Department of the Navy
Naval Air Station, Jacksonville
P.O. Box 2
Jacksonville, FL 32212-1002

Draft Permit No.: 0310215-024-AC
County: Duval

### B. PROJECT

The applicant, Department of the Navy, Naval Air Station, Jacksonville, applied on April 27, 2005, to the Department for a permit to construct/modify two painting/coating booths located in Building 724, AIMD shop 430 and Hangar 1000, AIMD shop 51A, respectively. The modification allows the coating of aircraft parts/components in these booths. The Naval Air Station is located at 6500 Roosevelt Blvd, Jacksonville, FL 32212. The facility emits criteria pollutants and hazardous air pollutants.

## II. RULE APPLICABILITY

The facility is located in an area unclassifiable for the air pollutant particulate matter less than or equal to ten (10) micrometers; is located in the area of influence of an air quality maintenance area for particulate matter, is located in an air quality maintenance area for the pollutant ozone (volatile organic compounds), and is located in an attainment area for all other criteria pollutants, pursuant to Rule 62-204, Florida Administrative Code (FAC), and Jacksonville Environmental Protection Board (JEPB), Rule 2.201.

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

The facility is major for purposes of Prevention of Significant Deterioration. The modification of the two existing painting/coating booths will not require a Best Available Control Technology Determination because there is not a pollutant increase associated with the modification. The two booths were formally part of EU 084 and will use a portion (approximately 1000 gallons per year) of the coating/solvent usage associated with EU 084 (20,000 gallons per year). The booth modifications will allow operational flexibility to the Department of the Navy in the coating of aircraft components.

## III. TECHNICAL EVALUATION

| Emission Unit ID No. | Brief Description | Control Device |
|---|---|---|
| 106 | Paint Spray Booth, Building 724, AIMD Shop 430 | Two stage dry particulate filters |
| 107 | Paint Spray Booth, Hangar 1000, AIMD Shop 51A | Two stage dry particulate filters |

This construction permit is for the modification of two painting/coating booths located in Building 724, AIMD shop 430 and Hangar 1000, AIMD shop 51A. The modification allows the coating of aircraft components in these booths. The coating operation is subject to the requirements of 40 CFR 63, Subpart GG, National Emission Standards for Aerospace Manufacturing and Rework Facilities, and 40 CFR 63, Subpart A, General Provisions, as delineated in Table 1 of Subpart GG. Two stage dry particulate filters will be installed on each painting/coating booth to comply with the control technology requirements of this regulation.

The nominal airflow rate for EU 106 is 15,800 dscfm and the nominal airflow rate for EU 107 is 13,662 dscfm.

Volatile Organic Compound (VOC) and Hazardous Air Pollutant (HAP) emissions are regulated by limits on the VOC and HAP (organic HAP) content of coatings applied to aircraft components. Inorganic HAP emissions from painting/coating overspray is controlled by two stage dry particulate filters installed on each painting/coating booth. Compliance, monitoring, record keeping, and reporting requirements are delineated in Appendices PT and CO which are attached to and are part of the permit.

## IV. CONCLUSION

Based upon information provided by the Department of the Navy, Naval Air Station, Jacksonville, the Environmental Resource Management Department, Environmental Quality Division has reasonable assurance that the construction/modification of the two painting/coating booths located in Building 724, AIMD shop 430 and Hangar 1000, AIMD shop 51A at the Naval Air Station, Jacksonville, 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.