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.: 0310215-032-AC
County: Duval

B. PROJECT

The applicant, Department of the Navy, Naval Air Station, Jacksonville, applied on August 27, 2008 to the Permitting Authority for a permit to construct two abrasive blast booths to replace the two existing blast booths (Emission Unit (EU) Nos. 077and 078) located in Building 101. 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 construction of the two abrasive blast booths will not require a Best Available Control Technology Determination because there is not a significant net pollutant increase associated with the construction.

III. TECHNICAL EVALUATION

EU ID No.	Brief Description	Control Device
113	Abrasive Blast Booth No. 1, Bldg. 101	Cartridge Dust Collector/Baghouse
114	Abrasive Blast Booth No. 2, Bldg. 101	Cartridge Dust Collector/Baghouse

The blasting 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 and Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emission Units** [Rule 62-296.700(3), FAC, and Rule 2.1001, 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].

The estimated maximum air flow rate for EU No.113 and EU No.114 is 22,000 dscfm each.

Each emissions unit shall be allowed to operate a maximum of 2400 hours per year.

The maximum process rate of abrasive blast media to the blasting operation shall be 1000 lbs/hr for each emissions unit.

PM emissions for each emissions unit shall be limited to 0.03 gr/dscf (5.66 lbs/hr and 6.79 tons per year).

Visible Emissions (VE) shall be limited to 5 % opacity for each emissions unit.

Additional Conditions

In order to provide reasonable assurance that applicable PSD significant levels are not exceeded with the construction and operation of the two new blast booths to be located in Building 101, restrictions have been placed on the number of operating hours per calendar year basis, thereby restricting particulate matter (PM) emissions on a calendar year basis.

Maximum Operating Hours Per Year

2400

Potential emissions from the two new blast booths based upon the above maximum operating hours per calendar year are as follows:

Pollutant (Tons Per Year)

PM

13.58

Below are the contemporaneous PM emission increases/decreases associated with the construction of the blast booths in Building 101. When comparing the net increase from the project to the Significant Net Increase levels listed in Rule 62-210, FAC and Rule 2.301, JEPB, it is determined that no significant net increase was triggered.

PM_{10} (Tons Per Year)

	New Blast Booths	EU105	EU(77/78)	Net Increase	Significant Net Increase	PSD
PTE	13.58	0.16	0.26	13.48	15	No

IV. CONCLUSION

Based upon information provided by the Department of the Navy, Naval Air Station, Jacksonville, the Environmental and Compliance Department, Environmental Quality Division has reasonable assurance that the construction of the two abrasive blast booths located in Building 101 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.