TECHNICAL EVALUATION

AND

PRELIMINARY DETERMINATION

I. GENERAL INFORMATION

A. APPLICANT

Department of the Navy
Naval Station,Mayport
P.O. Box 280112
Jacksonville, FL 32228-0112

Permit No.: 0310213-017-AC
County: Duval

B. PROJECT

On February 27, 2006 the Department of the Navy, Naval Station, Mayport, submitted an application for an air pollution source permit to construct a new abrasive blast booth no. 4, Bldg. 1488. The new blast booth will provide for abrasive blasting of various components used in the operation of the Naval Station.

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 ozone maintenance area, 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 air pollutants are greater than or equal to 100 tons per year. The facility is synthetic minor for hazardous air pollutants because the potential emissions of Hazardous Air Pollutants (HAP) are restricted to less than 10 tons per year (single HAP) and less than 25 tons per year (total HAPs) pursuant to Rule 62-210, FAC, and JEPB Rule 2.301.

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 and the modification itself is minor (ie: potential to emit less than 250 tons per year), thereby making the facility **minor** for PSD purposes.

III. TECHNICAL EVALUATION

EU No.	EU Description
036	Blast Booth No. 4, BLDG. 1488

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 this emission unit.

The estimated maximum abrasive blasting media use is 4270.5 tons per year.
[Rule 62-210.200(210), FAC, and Rule 2.301, JEPB]

This EU shall be allowed to operate continuously, i.e., 8760 hours per year.
[Applicant's request, Rule 62-210.200(210), FAC, and Rule 2.301, JEPB]

The nominal airflow shall be 15000 dscfm.
[Rule 62-210.200(210), FAC, and Rule 2.301, JEPB]

PM emissions shall be limited to 0.03 gr/dscf [3.86 lbs/hr and 16.89 TPY].
[Applicant's request, Rule 62-296.712(2), FAC, and Rule 2.1001, JEPB]

VE shall be limited to five (5) percent (%) opacity.
[Rule 62-297.620(4), FAC, Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity. The minimum observation time shall be 30 minutes.
[Rule 62-296.712(3)(a), FAC, Rule 62-297.310(4)(a)2., FAC, Rule 2.1001, JEPB, and Rule 2.1101, JEPB]

Initial VE testing shall be conducted within 60 days after reaching the maximum rate at which the EU will be operated but no later than 180 days after initial start-up. Initial VE testing shall be conducted for a minimum period of 30 minutes during each PM test run.
[Rule 62-297.310(4)(a) 2., FAC, and Rule 2.1101, JEPB]

Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 5 (as described in 40 CFR 60, Appendix A), for the determination of the PM emission rate. The minimum sample volume shall be 30 dry standard cubic feet.
[Rule 62-296.712(3)(b), FAC, and Rule 2.1001, JEPB]

Initial PM testing shall be conducted within 60 days after reaching the maximum rate at which the EU will be operated but no later than 180 days after initial start-up.
[Rule 62-297.310(7)(c), FAC, and Rule 2.1101, JEPB]

The owner/operator shall submit an Operation and Maintenance Plan with the Title V Operating Permit revision application.
[Rule 62-296.700(6), FAC, and Rule 2.1001, JEPB]

A Compliance Assurance Monitoring (CAM) determination shall be made after review of stack testing data and any other relevant information available on this emission unit. It is noted that uncontrolled PM emission data may be required to determine CAM applicability. Conduct PM stack testing accordingly.
[40 CFR 64, Rule 62-213.440, FAC, and Rule 2.501, JEPB]

IV. CONCLUSION

Based upon information provided by the Department of the Navy, Naval Station, Mayport, the Department has reasonable assurance that the proposed construction of the abrasive blast booth no. 4, at Bldg. 1488, Naval Station, Mayport, 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.