

**PERMIT FOR SURFACE PREPARATION PROCESS**

**STATE OF CONNECTICUT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF AIR MANAGEMENT**

1. Legal Firm Name: US Naval Submarine Base-New London (the Permittee)
2. Address: P.O. Box 39, Groton, CT 06349-5039
3. Equipment Location: Building 174, Lower Base, Groton, CT
4. Equipment Description (Model, I.D. #): Abrasive Blast Booth  
manufactured by Empire Abrasive Equipment Company

PERMIT TO:

       Construct   T   Operate        Modify

FEDERAL REQUIREMENTS:

       NSPS (40 CFR Part 60) Subpart:

       NESHAPS (40 CFR Part 61) Subpart:

       MACT (40 CFR Part 63) Subpart:

OZONE NON-ATTAINMENT STATUS:

       severe (Major source if VOC or NOx > 25 TPY)

  T   serious (Major source if VOC or NOx > 50 TPY)

Date Issued	Exp. Date
12/15/99	NONE
Town No.	Premise No.
070	28
Permit No.	Stack No.
0231	11
Permit Fee	
\$2000.00	

TYPE OF POLLUTANT FOR WHICH THIS PREMISE IS A "MAJOR SOURCE":

SOURCE CLASS:		TSP	SOx	NOx	CO	VOC	PM-10	LEADOTHER
		<u>      </u>	<u>  T  </u>	<u>  T  </u>	<u>  T  </u>	<u>      </u>	<u>      </u>	<u>      </u>
New Source		<u>  T  </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
Major Mod		<u>      </u>						
Minor Mod		<u>      </u>						
Aggregate		<u>      </u>						

Jane K. Stahl

ARTHUR J. ROCQUE, JR.  
COMMISSIONER, DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
OR DESIGNATED AGENT

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The conditions on all pages of this permit and attached appendices shall be verified at all times except those noted as design specifications. Design specifications need not be verified on a continuous basis; however, if requested by the Commissioner, demonstration of compliance shall be shown.

#### PART I. OPERATIONAL CONDITIONS

##### *Enforceable Conditions:*

1. Type and Quantity of Abrasive Used (lb/yr): Steel Grit  
(5,045,760 lb/yr at a maximum blast rate of 576 lb/hr and 8,760 hr/yr)

##### *Design Specifications:*

1. Blasting Type: Dry
2. Number of Nozzles: 1
3. Compressor Maximum Capacity 490 acfm at 100 psig
4. Stack Height (ft): 26.5
5. Exhaust Gas Flow Rate (acfm): 13,500 scfm
6. Minimum Distance of Stack to Property Line (ft): 100

#### PART II. CONTROL EQUIPMENT

1. Filter

Make and Model: Donaldson-Torit Model No. DFT-4-32

Number of filters in Use: 16

Air/Cloth Ratio: 1.6 CFM/SQ.FT.

Bag Material: Synthetic Fiber

Cleaning Method: Pulse Air

Pressure Drop (in. H<sub>2</sub>O): 4.5 (6.0 maximum)

Minimum Gas Flow Rate at Maximum Rated Capacity (acfm): 13,500 scfm

Design Removal Efficiency: 99.999% on particles down to 0.5 microns

2. The filter shall be maintained in accordance with the manufacturer's specifications and shall be in operation at all times that the blast booth is in operation or emitting air pollutants.
3. The blast booth shall be under constant negative pressure during operation.
4. An interlock shall be installed and operated such that the blast booth equipment cannot operate unless the exhaust system is operating in conformance with this permit.
5. The pulse air cleaner shall be activated prior to reaching a pressure differential of 6.0 in. H<sub>2</sub>O across the filter and shall be activated so as to maintain a pressure differential across the filter of approximately 4.5 in. H<sub>2</sub>O.

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**PART III. MONITORING, REPORTING, AND RECORD KEEPING REQUIREMENTS**

1. Quantity of abrasive used shall be recorded based on any consecutive twelve (12) month time period and shall be determined for each abrasive used by adding each month's abrasive use to that of the previous eleven (11) months. The Permittee shall make this calculation monthly.
2. The permittee shall record the date and details of all repairs and maintenance to the filter and exhaust systems when they occur.
3. At least once per operational shift of the abrasive blast booth, the permittee shall record the pressure drop as inches of water across the filter.
4. The Permittee shall keep records on premise indicating continual compliance with all above conditions at all times and shall make them available upon request by the Commissioner. Such records shall be maintained for a period of at least five (5) years after the date such record is made.

**PART IV. ALLOWABLE EMISSION LIMITS:**

The Permittee shall meet the emission limits stated herein at all times.

<u>Criteria Pollutants</u>	<u>#/hr</u>	<u>ASC* (ug/m<sup>3</sup>)</u>	<u>TPY</u>
TSP	0.0058		0.0254
PM-10	0.0058		0.0254
Pb	6.73E-07	0.0131	2.95E-06

Non-Criteria Pollutants

The source subject to this permit shall not exceed the Maximum Allowable Stack Concentration (MASC) for any pollutant listed in §22a-174-29 of the Regulations.

The permittee shall limit the instantaneous visible opacity resulting from blast operation emissions to 10%.

\*allowable stack concentration

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**PART V. ADDITIONAL TERMS AND CONDITIONS**

1. This permit does not relieve the permittee of the responsibility to conduct, maintain and operate the regulated activity in compliance with all applicable requirements of any federal, municipal or other state agency. Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state and local law.
2. Any representative of the DEP may enter the permittee's site in accordance with constitutional limitations at all reasonable times without prior notice, for the purposes of inspecting, monitoring and enforcing the terms and conditions of this permit and applicable state law.
3. This permit may be revoked, suspended, modified or transferred in accordance with applicable law.
4. This permit is subject to and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut and conveys no property rights in real estate or material, nor any exclusive privileges, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby. This permit shall neither create nor affect any rights of persons or municipalities who are not parties to this permit.
5. Any document, including any notice, which is required to be submitted to the Commissioner under this permit shall be signed by a duly authorized representative of the permittee and by the person who is responsible for actually preparing such document, each of whom shall certify in writing as follows: "I have personally examined and am familiar with the information submitted in the documents and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense." Any false statement in any information submitted pursuant to this permit may be punishable as a criminal offense in accordance with Connecticut General Statutes §22a-6, under §53a-157 of the Connecticut General Statutes.

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**PART V. ADDITIONAL TERMS AND CONDITIONS, continued**

6. Nothing in this permit shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the permittee by the Commissioner.
7. Within fifteen days of the date the permittee becomes aware of a change in any information submitted to the Commissioner under this permit, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the correct or omitted information to the Commissioner.
8. The date of submission to the Commissioner of any document required by this permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this permit, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" means calendar day. Any document or action which is required by this permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.
9. Any document required to be submitted to the Commissioner under this permit shall, unless otherwise specified in writing by the Commissioner, be directed to: Office of Assistant Director; Compliance & Field Operations Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 6th Floor; Hartford, Connecticut 06106-5127.

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