



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR MANAGEMENT

NEW SOURCE REVIEW PERMIT
TO CONSTRUCT AND OPERATE
A STATIONARY SOURCE

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-3a of the Regulations of Connecticut State Agencies (RCSA).

Owner/Operator:	Electric Boat Corporation
Address:	75 Eastern Point Road, Groton, CT 06340-1047
Equipment Location:	75 Eastern Point Road, Groton, CT 06340-1047
Equipment Description:	Blasting Cabinet, Building 129

Town-Permit Numbers:	070-0269
Premises Number:	5
Permit Issue Date:	NOV 14 2008
Expiration Date:	None


Gina McCarthy
Commissioner

11/14/08
Date

ORIGINAL

PERMIT FOR PROCESS EQUIPMENT

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

This permit specifies necessary terms and conditions for the operation of this equipment to comply with state and federal air quality standards. The Permittee shall at all times comply with the terms and conditions stated herein.

PART I. DESIGN SPECIFICATIONS

A. General Description

This permit covers a blasting cabinet in Building 129. The blasting cabinet will primarily be used for research and development purposes with test plates comprising the majority of items processed. The process will consist of loading the part, rotating and blasting the part with one of two media and blowing off the expended grit from the part.

The process will utilize the following blasting media: Black Beauty and Aluminum Oxide.

The process exhaust will be vented through a Donaldson Torit cartridge filter with a manufacturer's rated particulate removal efficiency of 99.999% on 0.5 micron particles.

B. Equipment Design Specifications

Media Blaster: Empire ProFinish 3648 SRC-6
Media Application Rate: 740 lb/h

C. Control Equipment Design Specifications

Particulate Filter

Manufacturer: Donaldson Torit
Make and Model Number: Ultra-Web DFO Cartridge Filter, Model DFO 2-4
Cleaning Method: Pulse Air
Control Efficiency: 99.999%
Air to Cloth Ratio: 0.63 cfm/ft²
Exhaust flow rate: 480 scfm (@ 68°F)
Design pressure drop: 11 inches H₂O

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PART I. DESIGN SPECIFICATIONS, continued

D. Stack Parameters

Minimum stack height: 13 ft
 Stack Diameter: 0.5 ft
 Exit Direction: horizontal
 Rain Hat: no
 Maximum gas flowrate: 480 scfm (@ 68°F)
 Minimum distance to property line: 180 ft

PART II. OPERATING REQUIREMENTS

A. Equipment

<u>Allowable Fuel</u>	<u>Max. Consumption</u>	<u>Record Keeping</u>
Media Usage	540,200 tons/yr	Monthly

B. Controls

Maximum Gas Flow Rate: 480 scfm (@ 68°F)

PART III. MONITORING, RECORD KEEPING AND REPORTING REQUIREMENTS

A. Continuous Emission Monitoring

Continuous emissions monitoring is not required for this source.

B. Material Usage Records

The Permittee shall record monthly and annual grit blast media usage. The annual usage shall be determined by adding the current month's usage to the previous eleven (11) months' usage.

PART IV. OPERATION AND MAINTENANCE REQUIREMENTS

- A. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations.
- B. The Permittee shall properly operate the control equipment at all times that this equipment is in operation and emitting air pollutants.

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PART V. ALLOWABLE EMISSION LIMITS

The Permittee shall not cause or allow this equipment to exceed the emission limits stated herein at any time.

A. Criteria Pollutants

<u>Pollutant</u>	<u>lb/hr</u>	<u>tpy</u>
PM	0.0002	0.00015
PM-10	0.0002	0.00015
PM-2.5	0.0002	0.00015

Demonstration of compliance with the above emission limits shall be met by calculating the emission rates using emission factors from the following sources:

1. AP-42 Table 13.2.6-1, 9/97.

The commissioner may require other means (e.g. stack testing) to demonstrate compliance with the above emission limits, as allowed by state or federal statute, law or regulation.

B. Hazardous Air Pollutants (HAPs) - (State Only Requirement)

Blasting media used by this source now or in the future, either for production or on a trial basis, which contain hazardous air pollutants (HAPs) that are regulated under RCSA §22a-174-29 are allowed provided that:

1. The Permittee demonstrates that the HAPs actual stack concentration (ASC) does not exceed the maximum allowable stack concentration (MASC) using the equation in RCSA §22a-174-29(c). The Permittee shall be allowed to use the adjustment factor in RCSA §22a-174-29(i).
2. The Permittee keeps records of all compounds used, MSDSs or the manufacturer's technical data sheets.

NOTE: The emissions from any new compounds, for production or trial runs, shall be counted toward any applicable emission limit in this permit.

PART VI. STACK EMISSION TEST REQUIREMENTS (Applicable if -X- Checked)

Stack testing shall not be required at this time.

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PART VII. SPECIAL REQUIREMENTS

- A. STATE ONLY REQUIREMENT: The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor beyond the property boundary of the premises that constitutes a nuisance as set forth in RCSA Section 22a-174-23.
- B. STATE ONLY REQUIREMENT: The Permittee shall operate this source and all accompanying equipment at all times in a manner so as not to violate or significantly contribute to the violation of any applicable state noise control regulations, as set forth in RCSA Sections 22a-69-1 through 22a-69-7.4.

PART VIII. ADDITIONAL TERMS AND CONDITIONS

- A. 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.
- B. 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.
- C. This permit may be revoked, suspended, modified or transferred in accordance with applicable law.
- D. 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 of municipalities who are not parties to this permit.

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Town No: 70

Premises No: 5

Permit No: 269

Stack No: 58

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PART VIII. ADDITIONAL TERMS AND CONDITIONS, continued

- E. 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 this document and all attachments thereto, and I 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. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute."
- F. 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.
- G. Within 15 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.
- H. 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.

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PART VIII. ADDITIONAL TERMS AND CONDITIONS, continued

- I. 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 Director; Engineering & Enforcement Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

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