



Connecticut Department of

**ENERGY &
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	Abrasive Blast Booth Process, Building 122
Town-Permit Numbers	070-0255
Premises Number	5
Stack Number	49
Revision/Modification Issue Date	June 13, 2014
Prior Permit Issue Dates	June 15, 2001 October 9, 2007
Expiration Date	None

/s/ Anne Gobin for
Robert J. Klee
Commissioner

June 13, 2014
Date

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

Abrasive blast booth utilizing steel shot for surface preparation.

B. Equipment Design Specifications

1. Type of abrasive blasting system: Dry
2. Number of Nozzles: 1

C. Control Equipment Design Specifications

1. Make and Model: RPS Associates Dust Collector System, Model DC6000ES
2. Cloth Material: Polyester Felt
3. Cleaning Method: Pulse Jet
4. Designed Removal Efficiency: 99.99%
5. Inlet Gas Temperature (°F): Ambient

D. Stack Parameters

1. Minimum Stack Height (ft): 24
2. Minimum Exhaust Gas Flow Rate (acfm): 4,200
3. Minimum Distance from Stack to Property Line (ft): 239

PART II. OPERATIONAL CONDITIONS

A. Equipment

1. Abrasive Material: Steel Shot
2. Quantity of Abrasive Used (lb/yr): 3.5×10^8 (based on 40,000 lb/hr max blast capacity)

B. Control Equipment

1. Minimum Pressure Drop (in. H₂O): 0.25
2. The Permittee shall maintain the baghouse and the filter(s) in accordance with the manufacturer's specifications and shall activate the baghouse during blasting operations.
3. The Permittee shall keep the blasting operations under negative pressure.

PART III. 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

Pollutant	lb/hr	tpy
PM	1.1	4.7
PM ₁₀	1.1	4.7

B. Hazardous Air Pollutants: This equipment shall not cause an exceedance of the Maximum Allowable Stack Concentration (MASC) for any hazardous air pollutant (HAP) emitted and listed in RCSA Section 22a-174-29. [STATE ONLY REQUIREMENT]

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

- *Manufacturer's data*

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.

PART IV. MONITORING, RECORD KEEPING AND REPORTING REQUIREMENTS

A. Monitoring

1. Quantity of abrasive used shall be based on any consecutive 12 month time period and shall be determined for each abrasive used by adding each month's abrasive use to that of the previous 11 months. The Permittee shall make this calculation monthly.
2. The Permittee shall monitor the pressure drop as in. H₂O across the baghouse filter.

B. Record Keeping

1. The Permittee shall record the date and details of all repairs and maintenance to the baghouse and exhaust systems.
2. The Permittee shall record the pressure drop as in. H₂O across the filter at least once per day of abrasive blasting.
3. The Permittee shall keep all records required by this permit for a period of no less than five years and shall submit such records to the commissioner upon request.

PART V. 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.

PART VI. SPECIAL REQUIREMENTS

- A.** 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. [STATE ONLY REQUIREMENT]
- B.** The Permittee shall operate this facility at all times in a manner so as not to violate or contribute significantly to the violation of any applicable state noise control regulations, as set forth in RCSA Sections 22a-69-1 through 22a-69-7.4. [STATE ONLY REQUIREMENT]

PART VII. 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 DEEP 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.
- 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.
- 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 Energy and Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.