



**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 and Section 22a-174-3a of the Regulations of Connecticut State Agencies (RCSA).

Owner/Operator:	General Dynamics, Electric Boat Corporation
Address:	75 Eastern Point Road, Groton, CT 06340-1047
Equipment Location:	Building 105
Equipment Description:	Abrasive Blasting Operations

Permit Number:	070-0256
Town/Premises Numbers:	070/5
Original Permit Issue Date:	July 9, 2001
Modification Issue Date:	5/20/06
Expiration Date:	None

/s/Gina McCarthy
Gina McCarthy
Commissioner

May 20, 2006
Date

PERMIT FOR PROCESS EQUIPMENT

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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. Abrasive Material: Steel Grit
2. Quantity of Abrasive Used (lb/yr): 3.1 x 10⁷ (at 3,600 lb/hr maximum blast capacity)

Design Specifications:

1. Type of Abrasive Blasting System: Dry
2. Number of Nozzle(s): 1
3. Stack Height (ft): 16.67
4. Maximum Exhaust Gas Flow Rate (acfm): 3,000
5. Minimum Distance of Stack to Property Line (ft): 222

PART II. CONTROL EQUIPMENT (Baghouse Specifications)

1. Make and Model: Torit Model MIC770-155 Baghouse, S/N BB1631
2. Cloth Material: Polyester Sateen
3. Cleaning Method: Automatic Shaking
4. Minimum Pressure Drop (in. H₂O): 3.0
5. Inlet Gas Temperature (°F): Ambient
6. Maximum Gas Flow Rate at Maximum Rated Capacity (acfm): 3,000
7. Designed Removal Efficiency (%): 99.0
8. 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.
9. The permittee shall keep the blasting operations under negative pressure.
10. The baghouse shall be operated at all times during use of the blasting equipment.
11. The minimum pressure drop listed in part II.4 shall be maintained during baghouse operation.

FIRM NAME: Electric Boat Corporation

EQUIPMENT LOCATION: Electric Boat Shipyard, 75 Eastern Point Road, Groton, Connecticut 06340-1047

EQUIPMENT DESCRIPTION (MODEL, I.D. #): Abrasive Blasting Chamber

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PART III. CONTINUOUS EMISSION MONITORING REQUIREMENTS AND ASSOCIATED EMISSION LIMITS

CEM equipment is not required at this time.

PART IV. MONITORING, REPORTING, AND RECORD KEEPING REQUIREMENTS

1. The quantity of abrasive used shall be 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 baghouse and exhaust systems.
3. The permittee shall record the pressure drop as inches of H₂O across the filter at least once per day of abrasive blasting.
4. The Permittee shall keep all records required by this permit on premises for a period of no less than five (5) years and shall submit such records to the Commissioner upon request.

PART V. ALLOWABLE EMISSION LIMITS:

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

<u>Criteria</u>	<u>#/hr</u>	<u>ASC*</u> <u>(ug/m³)</u>	<u>TPY</u>
<u>Pollutants</u>			
TSP/PM-10	0.23		1.03
<u>Non-Criteria</u>		<u>ASC*</u>	
<u>Pollutants</u>		<u>(ug/m³)</u>	
Chromium		607.72	
Manganese		18,341	
Nickel		1,215.44	

*allowable stack concentration

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Town No: 070

Premises No: 05

Permit No:0256

Stack No: 50

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PART VI. STACK EMISSION TEST REQUIREMENTS

No stack testing is required at this time.

PART VII. APPLICABLE REGULATORY REFERENCES (The Regulations of Connecticut State Agencies, hereinafter referred to as the Regulations)

22a-174-3(a), (b), (f); 22a-174-18; 22a-174-29

These references are not intended to be all inclusive - other sections of the Regulations may apply.

PART VIII. SPECIAL REQUIREMENTS

1. During the initial year of operation, the monthly emission limit shall not exceed the annual limitation divided by six (6).
2. The Permittee shall operate and maintain this equipment and the use of control equipment in accordance with the manufacturer's specifications and written recommendations.
3. The Permittee shall operate this source and premise at all times in a manner so as not to violate or significantly contribute to a violation of any applicable state requirements for the control of fugitive dust emissions, as set forth in Section 22a-174-18(b) of the Regulations of Connecticut State Agencies (hereinafter referred to as the Regulations).

PART IX. 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.

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PART IX. ADDITIONAL TERMS AND CONDITIONS, continued:

- 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.
- 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."

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PART IX. ADDITIONAL TERMS AND CONDITIONS, continued:

- 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 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.
- 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; Compliance & Field Operations Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

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