



**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 06340-4989
Equipment Location:	75 Eastern Point Road, Groton
Equipment Description:	Superior 150 BHP Boiler (South Yard Boiler #1)

Permit Number:	070-0055
Premises Number:	05
Original Permit Issue Date:	January 12, 1982
Prior Permit Issue Dates:	May 20, 2006 (Modification)
Revision Issue Date:	6/8/10
Expiration Date:	None

/s/ Anne Gobin for
Amey Marrella
Commissioner

June 8, 2010
Date

PERMIT FOR FUEL BURNING EQUIPMENT**STATE OF CONNECTICUT, DEPARTMENT OF ENVIRONMENTAL PROTECTION
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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**A. Operating Limits**

1. Fuel Type(s): Natural Gas and No.2 Fuel Oil
2. Maximum Fuel Consumption over any Consecutive 12 Month Period:
397,700 gallons of No.2 Fuel Oil; 55.1 million cubic feet of
Natural Gas
3. Maximum Fuel Sulfur Content (% by weight, dry basis): 0.3% for
No.2 Fuel Oil

B. Design Specifications

1. Maximum Fuel Firing Rate(s): 48.6 gals/hr of No.2 Fuel Oil;
6,300 ft³/hr of Natural Gas
2. Maximum Gross Heat Input (MMBTU/hr): 6.81

C. Stack Parameters

1. Minimum Stack Height (ft): 55
2. Minimum Exhaust Gas Flow Rate (acfm): 1,500
3. Minimum Distance from Stack to Property Line (ft): 275

PART II. CONTROL EQUIPMENT: NONE**PART III. MONITORING, RECORD KEEPING AND REPORTING REQUIREMENTS****A. Monitoring**

When more than one fuel supply tank is to service this source or when multiple sources are supplied by one fuel tank, the Permittee shall use a non-resettable totalizing fuel metering device to continuously monitor fuel feed to this permitted source.

B. Record Keeping

1. The Permittee shall keep records of annual fuel consumption. Annual fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month.

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

2. The Permittee shall keep records of the fuel certification for each delivery of fuel from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. In addition, the shipping receipt shall include the date of delivery and a contract shall include the period of performance.
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 IV. ALLOWABLE EMISSION LIMITS

- A.** The Permittee shall not exceed the emission limits stated herein at any time.

Natural Gas:

Criteria Pollutants	#/hr	#/MMBtu	TPY
NOx	1.36	0.20 ^(a)	5.97
CO	0.53		2.31
SOx	0.004		0.02
PM/PM ₁₀ /PM _{2.5}	0.68	0.10 ^(b)	2.98
VOC (as NMTOC)	0.03		0.15

No.2 Fuel Oil:

Criteria Pollutants	#/hr	#/MMBtu	TPY
NOx	1.70	0.25 ^(a)	8.47
CO	0.24		0.99
SOx	2.07		8.47
PM/PM ₁₀ /PM _{2.5}	0.68	0.10 ^(b)	0.04
VOC (as NMTOC)	0.01		0.16

(a) RCSA, Section 22a-174-22(e)

(b) RCSA, Section 22a-174-18(e)(1)

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Permit No: 0055

Stack No: 26

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PART IV. ALLOWABLE EMISSION LIMITS, continued

B. Hazardous Air Pollutants: This unit 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**]

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

Natural Gas:

NOx: latest DEP approved stack testing data

CO: 84 lb/10⁶ scf - AP-42, Section 1.4, Table 1.4-1 (7/98)

SOx: 0.6 lb/10⁶ scf - AP-42, Section 1.4, Table 1.4-2 (7/98)

PM/PM₁₀/PM_{2.5}: 7.6 lb/10⁶ scf - AP-42, Section 1.4, Table 1.4-2 (7/98)

VOC (as NMTOC): 8.7 lb/10⁶ scf - AP-42, Section 1.4, Table 1.4-2 (7/98)

No.2 Fuel Oil:

NOx: 0.25 lb/MMBTU or latest DEP approved stack testing data

CO: 5 lb/1,000 gal - AP 42, Section 1.3, Table 1.3-1 (9/98)

SOx: 142 (%S) lb/1,000 gal - AP 42, Section 1.3, Table 1.3-1 (9/98)

PM/PM₁₀/PM_{2.5}: 2 lb/1,000 gal - AP 42, Section 1.3, Table 1.3-1 (9/98)

VOC (as NMTOC): 0.2 lb/1,000 gal - AP 42, Section 1.3, Table 1.3-3 (9/98)

The above statement shall not preclude the commissioner from requiring 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 V. STACK EMISSION TEST REQUIREMENTS (Applicable if -X- Checked)

Stack emission testing shall be required for the following pollutant(s):

PM SOx NOx ⁽¹⁾ CO VOC Pb

Other (HAPs): _____ None at this time

(1) As required in the latest promulgated RCSA Section 22a-174-22.

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A. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations.

B. *Noise (for non-emergency use)*

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 §22a-69-1 through §22a-69-7.4.

C. The Permittee shall comply with all applicable sections of the following New Source Performance Standard(s) at all times. (Applicable if -X-checked)

40 CFR Part 60, Subpart: Db Dc GG A

None

(See Appendix C for Detailed Requirements)

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 or 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 submitted information may

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PART VIII. ADDITIONAL TERMS AND CONDITIONS, continued

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 Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

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