



**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:	Dominion Nuclear Connecticut, Inc.
Address:	Rope Ferry Road, Waterford, CT 06385
Equipment Location:	Millstone Power Station, Rope Ferry Road, Waterford, CT 06385
Equipment Description:	One Fire Training Mock-up Facility and Two Propane-fired Water Pumps

Town-Permit Numbers:	199-0043
Town-Premises Numbers:	199-0003
Original Permit Issue Date:	4/27/1999
Last Modification Issue Date:	8/10/2000
Modification Issue Date:	1/21/2010
Expiration Date:	

/s/ Anne Gobin for  
Amey Marrella  
Commissioner

January 21, 2010  
Date

## PERMIT FOR FUEL BURNING 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. OPERATIONAL CONDITIONS

##### A. Operating Limits

1. Fuel Type(s): Propane
2. Maximum Fuel Consumption over any Consecutive 12 Month Period: 5,000 gallons/year for each Water Pump and 272,000 gallons/year for Fire Mock-up Facility

##### B. Design Specifications (Two Fire Water Pumps)

*Specifications are for each water pump*

1. Maximum Fuel Firing Rate(s): 5 gallons/hour
2. Maximum Gross Heat Input (MMBTU/hr): 0.45
3. Minimum Stack Height (ft): 10
4. Minimum Exhaust Gas Flow Rate (acfm): 175
5. Stack Exit Temperature (°F): 300
6. Minimum Distance from Stack to Property Line (ft): 385

##### C. Design Specifications (Fire Mockup Facility)

*Fire Mock-up Facility consists of Internal and External Fire Simulator*

1. Maximum Gross Heat Input of Fire Mock-up Facility: 93.8 MMBtu/hr
2. Internal Fire Simulator
  - a. Maximum Fuel Firing Rate(s): 136 gallons/hour
  - b. Minimum Stack Height (ft): 40
  - c. Minimum Exhaust Gas Flow Rate (acfm): 125,000
  - d. Stack Exit Temperature (°F): 150
  - e. Minimum Distance from Stack to Property Line (ft): 400
3. External Fire Simulator
  - a. Maximum Fuel Firing Rate(s): 15 gallons/minute
  - b. Minimum Distance from Stack to Property Line (ft): 400

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#### PART II. MONITORING, RECORD KEEPING AND REPORTING REQUIREMENTS

- A.** Annual fuel consumption shall be based on any consecutive 12 month time period and shall be determined by adding (for each of the three sources) 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 and the records should indicate the type of fuel used.
- B.** When more than one fuel supply tank is to service these three sources or when these three sources are supplied by one fuel tank, the Permittee shall use a fuel metering device to continuously monitor fuel feed to each of these three sources.
- C.** The Permittee shall keep records on premises indicating continual compliance with all above conditions at all times and shall make them available upon request by the commissioner for the duration of this permit, or for the previous five years, whichever is less.

#### PART III. ALLOWABLE EMISSION LIMITS

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

##### A. Two Fire Water Pumps (combined)

Criteria Pollutants	lb/hr	lb/MMBTU	tpy
TSP	0.06	0.067	0.02
PM <sub>10</sub>	0.06	0.067	0.02
SO <sub>x</sub>	0.004	0.004	0.002
NO <sub>x</sub>	1.40	1.56	0.70
VOC	0.84	0.93	0.42
CO	1.30	1.44	0.64

##### B. Fire Mock-up Facility

Criteria Pollutants	lb/hr	lb/MMBTU	tpy
TSP	0.62	0.007	0.08
PM <sub>10</sub>	0.62	0.007	0.08
SO <sub>x</sub>	1.6	0.02	0.20
NO <sub>x</sub>	19.7	0.21	2.58
VOC	0.52	0.006	0.07
CO	3.32	0.04	0.44

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**PART III. ALLOWABLE EMISSION LIMITS, Continued**

**C. Total Emissions**

Criteria Pollutants	tpy
TSP	0.10
PM <sub>10</sub>	0.10
SO <sub>x</sub>	0.202
NO <sub>x</sub>	3.28
VOC	0.49
CO	1.08

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 5th edition, Section 1.5 LPG
2. Air Resources Board (ARB) "Instructions for the Emissions Data System" (8/91) California

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 IV. SPECIAL REQUIREMENTS**

- 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 Sections 22a-69-1 through 22a-69-7.4.

**PART V. 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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Premises No: 0003

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Stack No: 14

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**PART V. 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 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 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.

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

- 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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