

13 February 2004

Mr. David Dorocz  
Naval Station Newport  
Environmental Department Head  
1 Simonpietri Drive  
Newport, RI 02841

Dear Mr. Dorocz:

Enclosed are corrected permit conditions and emission limitations for the minor source permit (Approval Nos. 1779-1782) issued on 13 January 2004. The following corrections were made to this minor source permit:

Condition A.2.e was corrected to read: *The emission rate of total nonmethane hydrocarbons discharged to the atmosphere from the boiler shall not exceed 0.025 lbs per million BTU heat input or 0.13 lbs/hr, whichever is more stringent.*

It previously read: *The emission rate of total nonmethane hydrocarbons discharged to the atmosphere from each boiler shall not exceed 0.025 lbs per million BTU heat input or 0.013 lbs/hr, whichever is more stringent.*

Conditions A.2.b, A.2.c(1), A.2.c(2) and A.2.d were corrected by replacing the phrase "each boiler" with "the boiler".

Please substitute the enclosed pages 1 through 8 for the pages 1 through 8 provided previously.

I can be reached at 401-222-2808, extension 7011 if you have any questions.

Sincerely,

Douglas L. McVay  
Associate Supervising Engineer  
Office of Air Resources

cc: Michelle Davis

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR RESOURCES

MINOR SOURCE PERMIT

*NAVAL STATION NEWPORT*

APPROVAL NOs. 1779-1782

Pursuant to the provisions of Air Pollution Control Regulation No. 9, this minor source permit is issued to:

*NAVAL STATION NEWPORT*

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**For the following:**

*Installation of three Cleaver Brooks Model CB 400S boilers, in McCarty-Little Hall, fired with either natural gas or No. 2 fuel oil containing 0.3 percent sulfur, by weight, or less (Approval Nos. 1779-1781). Installation of a Cleaver Brooks Model CB 125S boiler, in Ney Hall, fired with No. 2 fuel oil containing 0.3 percent sulfur, by weight, or less (Approval No. 1782). The installation of various fuel burning devices listed in Appendix A of this permit.*

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**Located at:** *Naval Station Newport*

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**This permit shall be effective from the date of its issuance and shall remain in effect until revoked by or surrendered to the Department. This permit does not relieve *Naval Station Newport* from compliance with applicable state and federal air pollution control rules and regulations. The design, construction and operation of this equipment shall be subject to the attached permit conditions and emission limitations.**

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**Stephen Majkut, Chief  
Office of Air Resources**

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**Date of Issuance**

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR RESOURCES**

Permit Conditions and Emission Limitations

**NAVAL STATION NEWPORT**

**APPROVAL NOs. 1779-1782**

*Corrected February 2004*

A. Emission Limitations

1. The following emission limitations are applicable to the three boilers located in McCarty-Little Hall, Building No. 27CHI.

a. Natural Gas Firing

(1) Nitrogen oxides (as nitrogen dioxide (NO<sub>2</sub>))

The emission rate of nitrogen oxides discharged to the atmosphere from each boiler shall not exceed 0.12 lbs per million BTU heat input or 2.01 lbs/hr, whichever is more stringent.

(2) Carbon Monoxide (CO)

The emission rate of carbon monoxide discharged to the atmosphere from each boiler shall not exceed 0.15 lbs per million BTU heat input or 2.51 lbs/hr, whichever is more stringent.

(3) Total Nonmethane Hydrocarbons (NMHC)

The emission rate of total nonmethane hydrocarbons discharged to the atmosphere from each boiler shall not exceed 0.016 lbs per million BTU heat input or 0.27 lbs/hr, whichever is more stringent.

b. Oil Firing

(1) Nitrogen Oxides (as nitrogen dioxide (NO<sub>2</sub>))

The emission rate of nitrogen oxides discharged to the atmosphere from each boiler shall not exceed 0.25 lbs per million BTU heat input or 4.19 lbs/hr, whichever is more stringent.

(2) Carbon Monoxide (CO)

The emission rate of carbon monoxide discharged to the atmosphere from each boiler shall not exceed 0.07 lbs per million BTU heat input or 1.17 lbs/hr, whichever is more stringent.

(3) Sulfur Dioxide (SO<sub>2</sub>)

(a) All fuel burned in each boiler shall contain no more than 0.3 percent sulfur by weight.

(b) The emission rate of sulfur dioxide discharged to the atmosphere from each boiler shall not exceed 5.03 lbs/hr.

(4) Particulate Matter

The emission rate of particulate matter discharged to the atmosphere from each boiler shall not exceed 0.025 lbs per million BTU heat input or 0.42 lbs/hr whichever is more stringent.

(5) Total Nonmethane Hydrocarbons (NMHC)

The emission rate of total nonmethane hydrocarbons discharged to the atmosphere from each boiler shall not exceed 0.025 lbs per million BTU heat input or 0.42 lbs/hr, whichever is more stringent.

2. The following emission limitations are applicable to the boiler located in Ney Hall, Building No. 292CP, capable of burning #2 fuel oil only.

a. Nitrogen Oxides (as nitrogen dioxide (NO<sub>2</sub>))

The emission rate of nitrogen oxides discharged to the atmosphere from the boiler shall not exceed 0.25 lbs per million BTU heat input or 1.28 lbs/hr, whichever is more stringent.

b. Carbon Monoxide (CO)

The emission rate of carbon monoxide discharged to the atmosphere from the boiler shall not exceed 0.07 lbs per million BTU heat input or 0.36 lbs/hr, whichever is more stringent.

c. Sulfur Dioxide (SO<sub>2</sub>)

- (1) All fuel burned in the boiler shall contain no more than 0.3 percent sulfur by weight.
- (2) The emission rate of sulfur dioxide discharged to the atmosphere from the boiler shall not exceed 1.60 lbs/hr.

d. Particulate Matter

The emission rate of particulate matter discharged to the atmosphere from the boiler shall not exceed 0.025 lbs per million BTU heat input or 0.13 lbs/hr whichever is more stringent.

e. Total Nonmethane Hydrocarbons (NMHC)

The emission rate of total nonmethane hydrocarbons discharged to the atmosphere from the boiler shall not exceed 0.025 lbs per million BTU heat input or 0.13 lbs/hr, whichever is more stringent.

3. Visible emissions from each boiler stack shall not exceed 10% opacity (6-minute average).

B. Operating Requirements

1. The owner/operator shall limit the combined quantity of fuel combusted in the fuel burning devices listed in Appendix A of this permit to 779,000 gallons of #2 fuel oil or less and 189,400,000 cubic feet of natural gas or less for any consecutive 12 month period.
2. The maximum firing rate of each boiler in McCarty-Little Hall shall not exceed 16,750 ft<sup>3</sup>/hr of natural gas or 119.5 gal/hr of #2 fuel oil.
3. The maximum firing rate of the boiler in Ney Hall shall not exceed 37.5 gal/hr of #2 fuel oil.
4. The owner/operator shall tune each fuel burning device listed in Appendix A of this permit with a heat input capacity of one million Btu's or greater at least once each year of operation, in accordance with the procedure described in Appendix A of APC Regulation No. 27.

C. Continuous Monitors

1. Continuous emission monitoring equipment shall be installed, operated and maintained for opacity when the three boilers located in McCarty-Little Hall are operating on fuel oil.

2. Continuous emission monitoring equipment shall be installed, operated and maintained for opacity for the boiler located in Ney Hall.

D. Fuel Oil Testing

1. Compliance with the fuel oil sulfur limits may be determined based on a certification from the fuel supplier. Fuel supplier certifications shall include the following information:
  - a. The name of the fuel supplier;
  - b. The sulfur content of the fuel from which the shipment came or the shipment itself;
  - c. The location of the fuel when the sample was drawn for analysis to determine the sulfur content of the fuel, specifically including whether the fuel was sampled as delivered to Naval Station Newport or whether the sample was drawn from fuel in storage at the fuel supplier's facility or another location;
  - d. The method used to determine the sulfur content of the fuel.
2. As an alternative to fuel supplier certification, the owner/operator may elect to sample the fuel prior to combustion. Sampling and analysis shall be conducted for the fuel in the initial tank(s) of fuel to be fired in each fuel burning device and after each new shipment of fuel is received. Samples shall be collected from the fuel tank immediately after the fuel tank is filled and before any fuel is combusted.
3. Each fuel supplier certification or each fuel oil analysis must demonstrate that the oil contains 0.3 percent sulfur by weight or less.

E. Record Keeping and Reporting

1. The owner/operator shall notify the Office of Air Resources in writing of the date of actual initial start-up of each boiler located in McCarty-Little Hall no later than fifteen days after such date.
2. The owner/operator shall notify the Office of Air Resources in writing of the date of actual initial start-up of the boiler located in Ney Hall no later than fifteen days after such date.
3. The owner/operator shall, on a monthly basis, no later than 5 days after the first of the month, determine the total quantity of fuel combusted in the fuel burning devices specified in Appendix A of this permit for the previous 12 months. The owner/operator shall keep records of this determination and provide such records to the Office of Air Resources upon request.

4. The owner/operator shall notify the Office of Air Resources in writing within 30 days, whenever the total quantity of fuel usage for the fuel burning devices specified in Appendix A of this permit exceeds 779,000 gallons of #2 fuel oil or 189,400,000 cubic feet of natural gas for any consecutive 12-month period.
5. The owner/operator shall retain copies of all fuel supplier certifications for each calendar quarter. These records shall be made accessible for review by the Office of Air Resources or EPA. This quarterly record shall include a certified statement, signed by the owner/operator, that the records of fuel supplier certifications submitted represent all of the fuel combusted during the quarter.
6. The owner/operator shall maintain records verifying that a tune-up has been performed in accordance with Condition B.4 of this permit. These records shall include the following information:
  - a. The date the tune-up was performed,
  - b. The name of the person who performed the tune-up,
  - c. The final excess oxygen setting, and
  - d. The O<sub>2</sub>/CO curve or O<sub>2</sub>/smoke curve that has been developed as part of a tune-up procedure.
7. The owner/operator shall notify the Office of Air Resources in writing of any planned physical or operational change to any equipment that would:
  - a. Change the representation of the facility in the application.
  - b. Alter the applicability of any state or federal air pollution rules or regulations.
  - c. Result in the violation of any terms or conditions of this permit.
  - d. Qualify as a modification under APC Regulation No. 9.

Such notification shall include:

- Information describing the nature of the change.
- Information describing the effect of the change on the emission of any air contaminant.
- The scheduled completion date of the planned change.

Any such change shall be consistent with the appropriate regulation and have the prior approval of the Director.

8. The owner/operator shall notify the Office of Air Resources of any anticipated noncompliance with the terms of this permit or any other applicable air pollution control rules and regulations.
9. The owner/operator shall notify the Office of Air Resources, in writing, of any noncompliance with the terms of this permit within 30 calendar days of becoming aware of such occurrence and supply the Director with the following information:
  - a. The name and location of the facility;
  - b. The subject source(s) that caused the noncompliance with the permit term;
  - c. The time and date of first observation of the incident of noncompliance;
  - d. The cause and expected duration of the incident of noncompliance;
  - e. The estimated rate of emissions (expressed in lbs/hr or lbs/day) during the incident and the operating data and calculations used in estimating the emission rate;
  - f. The proposed corrective actions and schedule to correct the conditions causing the incidence of noncompliance.
10. All records required in this permit shall be maintained for a minimum of five years after the date of each record and shall be made available to representatives of the Office of Air Resources upon request.

F. Other Permit Conditions

1. To the extent consistent with the requirements of this permit and applicable federal and state laws, the facility shall be designed, constructed and operated in accordance with the representation of the facility in the permit application.
2. Employees of the Office of Air Resources and its authorized representatives shall be allowed to enter the facility at all times for the purpose of inspecting any air pollution source, investigating any condition it believes may be causing air pollution or examining any records required to be maintained by the Office of Air Resources.
3. At all times, including periods of startup, shutdown and malfunction, the owner/operator shall, to the extent practicable, maintain and operate the boilers identified in this permit in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Office of Air Resources which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures and inspection of the source.

4. The boilers located in McCarty-Little Hall are subject to the requirements of the Federal New Source Performance Standards § 40 CFR 60, Subparts A (General Provisions) and Dc (Small Industrial-Commercial-Institutional Steam Generating Units). Compliance with all applicable provisions of these regulations is required.

## Appendix A

Building No.	Building Name	Equipment Type	Qty	MMBtu/hr each	Fuel
1CHI	Luce Hall	Boiler	2	5.845	Nat Gas
10CHI	NWC Museum	Boiler	1	1.357	Nat Gas
27CHI	McCarty-Little Hall	Boiler	3	16.75	Nat Gas/#2 fuel
52CHI	Schonland Hall	Boiler	1	1.357	Nat Gas
71CHI	Coffee Café	Furnace	1	0.120	Nat Gas
109CHI	Gym	Boiler	2	4.113	Nat Gas
109CHI	Gym	Hot water heater	1	1.000	Nat Gas
114CHI	Brett Hall	Boiler	2	2.396	Nat Gas
A138CHI	Statics Lab	Boiler	1	1.050	Nat Gas
172CHI	Bachelor Officer Qtrs	Boiler	2	2.713	Nat Gas
442CHI	Bachelor Officer Qtrs	Boiler	2	3.103	Nat Gas
442CHI	Bachelor Officer Qtrs	Boiler	1	2.400	Nat Gas
443CHI	Bachelor Officer Qtrs	Boiler	2	3.103	Nat Gas
443CHI	Bachelor Officer Qtrs	Boiler	1	2.400	Nat Gas
444CHI	Bachelor Officer Qtrs	Boiler	2	3.103	Nat Gas
446CHI	Weakly Hall	Boiler	1	1.703	Nat Gas
684CHI	Conference Center	Boiler	1	1.357	Nat Gas
1164CHI	Robertson Hall	Boiler	1	1.010	Nat Gas
1268CHI	Burke Hall	Boiler	2	2.396	Nat Gas
1268CHI	Burke Hall	Hot water heater	1	0.140	Nat Gas
1284CHI	Evans Hall	Boiler	2	3.392	Nat Gas
1284CHI	Evans Hall	Hot water heater	1	0.140	Nat Gas
ACHI	A Qtrs	Boiler	1	0.940	Nat Gas
AACHI	AA Qtrs	Boiler	1	1.080	Nat Gas
CDCHI	CD Qtrs	Boiler	1	0.640	Nat Gas
EFCHI	EF Qtrs	Boiler	1	0.760	Nat Gas
GHCHI	GH Qtrs	Boiler	1	0.760	Nat Gas
JCHI	J Qtrs	Boiler	1	0.490	Nat Gas
68CC	Pier 2	Boiler	1	4.200	#2 Fuel
197CP	Nimitz Hall	Hot water heater	2	3.200	#2 Fuel
291CP	King Hall	Hot water heater	2	3.200	#2 Fuel
292CP	Ney Hall	Boiler	1	5.138	#2 Fuel
307CP	Training Pool	Boiler	1	1.288	#2 Fuel
307CP	Training Pool	Hot water heater	1	1.500	#2 Fuel
440CP	Perry Hall	Boiler	1	0.610	#2 Fuel
688CP	Edwards Hall	Hot water heater	1	3.200	#2 Fuel
690CP	Command Headquarters	Boiler	1	0.959	#2 Fuel
1163CP	Commissary	Hot water heater	1	1.500	Propane
1269CP	Tomich Hall	Boiler	1	1.288	#2 Fuel
1801CP	Kay Hall	Boiler	1	1.617	#2 Fuel

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