

7 May 2012

John Obiurka  
Director of Building and Grounds  
Smithfield School Department  
49 Farnum Pike  
Smithfield, RI 02917

Dear Mr. Obiurka:

The Department of Environmental Management, Office of Air Resources has reviewed and approved your application for the installation of fuel burning equipment at your facility located at 10 Indian Run Trail, Smithfield.

Enclosed are minor source permits issued pursuant to our review of your application (Approval Nos. 2162 and 2163).

These Hurst boilers were installed in 2003 without first obtaining a preconstruction permit as required by RI Air Pollution Control Regulation No. 9. A Notice of Violation, which was issued by the Department of Environmental Management in June 2011 for the two boilers at the High School, was settled via a Consent Agreement in July 2011. The issuance of these minor source permits brings the Smithfield School Department into compliance with the requirement to obtain a preconstruction permit for these boilers.

If there are any questions concerning this permit, please contact me at 222-2808, extension 7415.

Sincerely,

Carlene B. Newman  
Air Quality Specialist  
Office of Air Resources

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

MINOR SOURCE PERMIT

SMITHFIELD SCHOOL DEPARTMENT

APPROVAL NOs. 2162 & 2163

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

*Smithfield School Department*

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**For the following:**

*Installation of two identical Hurst Boiler and Welding Company 6.3 MMBtu/hr, 150 HP firetube boilers, Model Series 400, Serial Nos. S750-30-13 and S750-30-14. The boilers shall be fired with No. 2 fuel oil containing 0.3 percent sulfur, by weight, or less.*

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**Located at:** *Vincent J. Gallagher Middle School*

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*10 Indian Run Trail, Smithfield - in the boiler room*

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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 *the Smithfield School Department* 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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**Douglas McVay, Acting 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

**SMITHFIELD SCHOOL DEPARTMENT**

**Approval Nos. 2162 & 2163**

A. Emission Limitations

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 0.14 lb per million BTU heat input or 0.9 lb/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 0.04 lb per million BTU heat input or 0.23 lb/hr, whichever is more stringent.

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

- a. All No. 2 fuel burned in the boilers 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 1.92 lb/hr.

4. Particulate Matter

The emission rate of particulate matter discharged to the atmosphere from each boiler shall not exceed 0.01 lb per million BTU heat input or 0.09 lb/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 0.002 lb per million BTU heat input or 0.02 lb/hr, whichever is more stringent.

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

B. Operating Requirements

1. The maximum firing rate of each boiler shall not exceed 45 gal/hr of No. 2 fuel oil.

C. Continuous Monitors

1. Continuous emission monitoring shall be installed, operated and maintained for opacity when the boilers are operating. The device shall be calibrated to sound an audio alarm at 10% opacity. The audio alarm must be located in an area where it will be heard by the operator or other person responsible for the boilers.

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 the Smithfield School Department or whether the sample was drawn from fuel storage at the fuel supplier's facility or another location; and
  - 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 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, on a monthly basis, no later than 5 days after the first of the month, determine the total quantity of No. 2 fuel oil combusted in the boilers. The owner/operator shall keep records of this determination and provide such records to the Office of Air Resources upon request.
2. The owner/operator shall retain copies of all fuel supplier certifications or fuel oil analysis 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 or fuel oil analysis submitted represent all of the fuel combusted during the quarter.
3. The owner/operator shall notify the Office of Air Resources in writing of any 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.

4. 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.
5. 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.
6. 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 approval 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 facility 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 owner/operator is subject to the requirements of 40 CFR 60, Subpart A (General Provisions) and 40 CFR 63, Subpart JJJJJ (National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources). Compliance with all applicable provisions therein is required.