



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 10009, Richmond, Virginia 23240

Fax (804) 698-4500 TDD (804) 698-4021

<http://www.deq.state.va.us>

James S. Gilmore, III
Governor

John Paul Woodley, Jr.
Secretary of Natural Resources

Dennis H. Treacy
Director

(804) 698-4000
1-800-592-5482

COMMONWEALTH OF VIRGINIA OPERATING PERMIT

STATIONARY SOURCE PERMIT TO OPERATE

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

Metropolitan Washington Airports Authority
Ronald Reagan Washington National Airport
Washington, DC 20001-4901
Registration No. 70005
County-Plant No. 013-0015

is authorized to operate

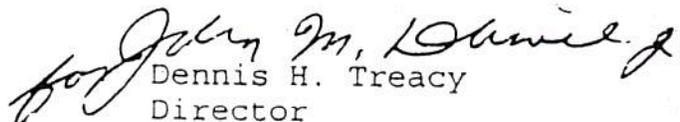
a heating and refrigeration plant, heating units, fire pump drivers
and emergency generators

located at

Ronald Reagan Washington National Airport
Arlington, Virginia

in accordance with the Conditions of this permit and all other applicable permits and regulations of the State Air Pollution Control Board.

Approved on May 22, 2000.


Dennis H. Treacy
Director

Permit consists of 4 pages.
Permit Conditions 1 to 10.

PERMIT CONDITIONS - the regulatory reference and authority for the condition is listed in parentheses () after each condition.

1. This permit establishes source-specific emission standards and/or other requirements to implement reasonably available control technology (RACT) as required by 9 VAC 5-40-310 of the State Air Pollution Control Board's Regulations.
(9 VAC 5-80-800 C.2.b of State Regulations)

2. Equipment subject to 9 VAC 5 Chapter 40, Article 4 and RACT requirements pursuant to Section 182 of the federal Clean Air Act consists of:
 - a. One (1) Babcock & Wilcox oil fired boiler rated at 48×10^6 Btu/hr;
 - b. Two (2) Union Iron Works oil fired boilers rated at 31×10^6 Btu/hr/ea;
 - c. Two (2) Babcock & Wilcox oil fired boilers rated at 37×10^6 Btu/hr/ea; and
 - d. One (1) natural gas fired boiler (identified as boiler TB) with a maximum heat input capacity of 15.1×10^6 Btu/hr.

3. The emissions controls and limitations of the State Air Pollution Control Board permit to construct and operate a replacement heating and refrigeration plant that was issued on February 10, 1994 were determined to represent the required best available control technology for the emission units, and therefore, for emissions of nitrogen oxides (NO_x) are no less stringent than RACT. Consequently, for the purposes of this permit the emission of nitrogen oxides (NO_x) from the one (1) Babcock & Wilcox oil fired boiler rated at 48×10^6 Btu/hr, the two (2) Union Iron Works oil fired boilers rated at 31×10^6 Btu/hr/ea. and the two (2) Babcock & Wilcox oil fired boilers rated at 37×10^6 Btu/hr/ea. shall be controlled by replacing those boilers with two (2) natural gas and distillate oil fired Volcano, Inc. boilers (B-1 and B-3) rated at 99.5×10^6 Btu/hr/ea. and one (1) natural gas/distillate oil fired Volcano, Inc. boiler (B-2) rated at 50.9×10^6 Btu/hr. The five (5) old boilers shall be removed from the facility and any further use of the boilers will require an air permit. The three new boilers shall be equipped and operated with low NO_x burners and flue gas recirculation.

Emissions of NO_x (as NO₂) from each replacement boiler shall not exceed:

0.045 lbs/10⁶ Btu heat input when firing natural gas

0.19 lbs/10⁶ Btu heat input when burning distillate oil

(9 VAC 5-40-310 and 9 VAC 5-40-311 of State Regulations)

4. For the following unit, NO_x RACT shall be the operation and maintenance of the unit in accordance with manufacturer's specifications and good air pollution control practices:

- One (1) natural gas fired boiler (identified as boiler TB) with a maximum heat input capacity of 15.1×10^6 Btu/hr.

A copy of all relevant operation, maintenance, and specification documentation as provided by the manufacturer for each unit and device shall be maintained on the premises of the facility. Each unit shall be operated and maintained in adherence with that documentation to the degree appropriate and practicable with the intention of minimizing NO_x emissions.

(9 VAC 5-40-310 and 9 VAC 5-40-311 of State Regulations)

5. Exempted from the requirements of 9 VAC 5 Chapter 40, Article 4 for both volatile organic compounds (VOC) and nitrogen oxides (NO_x) are the following:

- a. All combustion units using liquid fuel with an individual maximum heat input of less than 1,000,000 Btu per hour;
- b. Any combustion unit using gaseous fuel with a maximum heat input of less than 10,000,000 Btu per hour.

(9 VAC 5-40-240 of State Regulations)

6. Equipment specifically exempted from demonstrating RACT for NO_x includes the following:

- a. Any stationary internal combustion engine with a rated capacity of less than 450 hp of output power;
- b. Any generator used solely to supply emergency power to buildings during periods when normal power supplies are interrupted and during periods of scheduled maintenance.

- c. Any steam generating unit process heater or gas turbine with an annual capacity factor of less than 5.0%...

(9 VAC 5-40-311 of State Regulations)

7. At all times, including periods of startup, shutdown and malfunction, all units or processes, including any exempted by any conditions above shall be maintained and operated to the extent possible in a manner consistent with good air pollution control practice of minimizing emissions.

(9 VAC 5-40-20 and 9 VAC 5-170-160 of State Regulations)

8. The permittee shall maintain the following records and documents to demonstrate compliance with this permit:

The manufacturer's documentation for operation and maintenance and specifications as required by Condition 4.

Sufficient documentation to support claims that units on site are exempted under Conditions 5 and 6.

The format of such records shall be arranged with the Regional Compliance Manager. These records shall be available on site for inspection by the DEQ and shall be current for the most recent three years.

(9 VAC 5-80-900 of State Regulations)

9. In the event of any change in control of ownership of the permitted source, the permittee shall notify the succeeding owner of the existence of this permit by letter and send a copy of that letter to the Regional Compliance Manager.

(9 VAC 5-80-940 of State Regulations)

10. A copy of this permit shall be maintained on the premises of the facility to which it applies.

(9 VAC 5-80-860 of State Regulations)