Best Available Control Technology (BACT) Determination

St. Vincent's Medical Center
Duval County

The applicant has submitted a Title V operation permit application that includes Boiler No.1, Boiler No. 2, and Boiler No. 3. The boilers, each rated at 25 x 10^6 Btu per hour, are fired primarily with natural gas. No. 2 Fuel Oil is a secondary fuel for emergencies or natural gas curtailment.

This BACT Determination is required for the facility as set forth in Rules 62-296.400, Florida Administrative Code (FAC), - Specific Emission Limiting and Performance Standards and 62-296.406, FAC - Fossil Fuel Steam Generators with less than 250 Million Btu per hour Heat Input, New and Existing Sources.

BACT Determination Requested by Applicant:

Particulate matter and sulfur dioxide emissions are to be controlled by the firing of natural gas.

Date of Receipt of BACT Application:

June 20, 1996

BACT Determination by the Department:

Particulate matter and sulfur dioxide emissions from the boilers shall be limited by the firing of natural gas as the primary fuel.

No. 2 Fuel Oil shall be fired as an emergency fuel and during periods of natural gas curtailment.

The maximum sulfur content of the No. 2 Fuel Oil as fired shall not exceed 0.05 percent, by weight.

BACT Determination Rationale:

Sulfur in the fuel is a primary air pollution concern since most of the fuel sulfur becomes sulfur dioxide. Also, particulate matter emissions from fuel burning are related to the sulfur content. The firing of natural gas shall be BACT for the boilers.

This decision is consistent with previous BACT Determinations for similar units.

Details of the Analysis may be obtained by contacting:

Ronald L. Roberson, Environmental Engineer
Regulatory and Environmental Services Department
Air and Water Quality Division
117 West. Duval Street, Suite 225
Jacksonville, FL 32202-4111

Approved by:

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Richard L. Robinson, P.E., Manager	**Date**
Air Pollution Permitting Section	