

Best Available Control Technology (BACT) Determination

Atlantic Dry Dock Corporation Duval County

The applicant has submitted a construction permit application for two (2) steam boilers. The boilers, each rated at 8.4×10^6 Btu per hour, are fired with No. 2 fuel oil.

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 No. 2 fuel oil with a maximum sulfur content of 0.05 percent, by weight.

Date of Receipt of BACT Application:

August 28, 2000

BACT Determination by the Department:

Particulate matter and sulfur dioxide emissions from the boilers shall be limited by the firing of No. 2 fuel oil as the primary fuel.

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 No. 2 fuel oil with a maximum sulfur content of 0.05 percent, by weight, 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, Associate Engineer
Regulatory and Environmental Services Department
Air and Water Quality Division
117 West. Duval Street, Suite 225
Jacksonville, FL 32202-4111

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Approved by:

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

October 12, 2000
Date