Best Available Control Technology (BACT) Determination

Coastal Fuels Marketing, Inc.

Duval County

This BACT determination is required for the source as set forth in Rules 62-296.400, Florida Administrative Code (FAC), - Specific Emissions 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.

The applicant has applied for a Federally Enforceable State Operating Permit (FESOP) for a bulk fuel terminal. Boiler No. 4 is rated at 8.4 MMBTU per hour heat input, and received a BACT determination in 1986. Boiler No. 5 is rated at 9.0 MMBTU per hour heat input, and requires a BACT determination. Both boilers are fired with natural gas with No. 2 (distillate) fuel oil as an alternate fuel. This BACT Determination is for Boiler No. 5 only.

BACT Determination Requested by Applicant:

Particulate matter and sulfur dioxide emissions shall be controlled by the firing of Natural gas or No. 2 (distillate) fuel oil with a maximum sulfur content of 0.5% by weight.

Date of Receipt of BACT Application:

May 28, 1996

BACT Determination by the Department:

Particulate matter emissions and sulfur dioxide emissions shall be controlled by the firing of natural gas or very low sulfur content fuel oil. The sulfur content of the fuel oil shall not exceed 0.05%, by weight.

BACT Determination Rationale:

Sulfur in fuel is a primary air pollution concern since most of the fuel sulfur becomes sulfur dioxide. Particulate Matter emissions are also related to the sulfur content of the fuel oil.

This determination is consistent with other recent BACT Determinations for small boilers (i.e., less than 100 * 10^6 Btu/hr firing rate) and is more stringent than Subpart Dc, New Source Performance Standards.

Details of the Analysis May be Obtained by Contacting:

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Associate Pollution Control Engineer
Regulatory and Environmental Services Department
Air & Water Quality Division
421 W. Church Street, Suite 422
Jacksonville, FL 32202-4111

Approved by:

8/14/97

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