Best Available Control Technology (BACT) Determination

NuStar Terminals Operations Partnership, L.P.
NuStar Jacksonville Terminal
Duval County

This BACT determination is required for the source as set forth in Rule 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 an air construction permit to construct one new hot water boiler rated at a maximum heat input of 10.46 million Btu per hour. The boiler requires a BACT determination. The boiler is located at NuStar Terminals Operations Partnership, L.P., NuStar Jacksonville Terminal, 6531 Evergreen Avenue, Jacksonville, FL. The boiler is designated as follows:

Emission Unit ID No.	Brief Description
045	New Hot Water Boiler

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 0.05% by weight.

Date of Receipt of BACT Application:

January 6, 2011

BACT Determination by the Permitting Authority:

Particulate matter emissions and sulfur dioxide emissions shall be controlled by the firing of natural gas or very low sulfur content No.2 fuel oil. The sulfur content of the No.2 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 for small boilers is consistent with other recent BACT Determinations for small boilers (i.e., less than 100 million Btu/hr firing rate) and is more stringent than Subpart Dc, New Source Performance Standards.

Details of the Analysis may be obtained by Contacting:

Gloria Hunter-Barnes, Environmental Engineer
Environmental and Compliance Department
Environmental Quality Division
407 North Laura Street, Third Floor
Jacksonville, FL 32202

Approved by:

2/23/11

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

Date

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Best Available Control Technology (BACT) Determination

ST Services - Main Terminal
Duval County

The applicant has submitted a construction permit application for two (2) process heaters. The process heaters, each rated at 12.6 x 10^6 Btu per hour, are fired with natural gas and/or No. 2 fuel oil. The process heaters will be used to heat asphalt tanks located at the Main Terminal.

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

Date of Receipt of BACT Application:

October 31, 2001

BACT Determination by the Department:

Particulate matter and sulfur dioxide emissions from the boilers shall be limited by the firing of natural gas and/or No. 2 fuel oil.

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

Approved by:

Richard L. Robinson

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

11/16/2001
Date

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