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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