Best Available Control Technology (BACT) Determination

Baptist Medical Center Prudential Drive Facility
Duval County

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

Based on Rules 62-296.406, (2) & (3) , FAC, BACT Determination applies to Steam Boiler No. 1 (West) (EU 015) boiler rated at 42 x 10^6 Btu/hr maximum heat input , steam boiler No. 2 (East) (EU 016) rated at 42 x 10^6 Btu/hr maximum heat input , the two duct burners Duct Burner (EU 014) located in Combustion Turbine T-4 Duct rated at maximum of 31.00 x 10^6 Btu/hr heat input and Duct Burner (EU 017) located in Combustion Turbine T-2 Duct rated at maximum of 22.00 x 10^6 Btu/hr heat input.

These emissions units are located at Baptist Medical Center, Prudential Drive Facility 800 Prudential Drive, Jacksonville Fl. . The boilers and duct burners are designated as follows:

Emission Unit I D No.	**Brief Description**
014	Duct Burner located in Combustion Turbine T-4 Duct
015	Steam Boiler No. 1 (West)
016	Steam Boiler No. 2 (East)
017	Duct Burner located in Combustion Turbine T-2 Duct

BACT Determination Requested by Applicant:

Steam Boilers Nos. 1 and2 (EU 015 & EU 016), particulate matter and sulfur dioxide emissions shall be controlled by the firing of natural gas and very low sulfur content fuel oil. For Duct Burner (EU No.017), particulate matter and sulfur dioxide emissions shall be controlled by the firing of natural gas

[BACT Determination dated August 6, 2008]

Duct Burners (EU No.014), particulate matter and sulfur dioxide emissions shall be controlled by the firing of natural gas

[BACT Determination dated November 02, 2015]

Date of receipt of BACT Application

May 30, 2008 and October 14, 2015

BACT Determination by the Department:

For Steam Boilers Nos. 1 and 2 (EU 015 & EU 016), particulate matter and sulfur dioxide emissions shall be controlled by the firing of natural gas and very low sulfur content fuel oil. The fuel oil shall not exceed 0.05% sulfur content by weight.

For the Duct Burners (EU No.014 & EU 017), particulate matter and sulfur dioxide emissions shall be controlled by the firing of natural gas

BACT Determination Rationale:

Sulfur in the fuel is a primary air pollution concern since most of the fuel sulfur is converted to sulfur dioxide. This determination for small boilers (i.e, less than 100 million Btu/hr firing rate) is more stringent than 40 CFR 60,Subpart Dc- New Source Performance Standards requirements for small boilers firing natural gas and or low sulfur distillate oil.

Details of this analysis may be obtained by contacting:
Yasmin K. Enriquez
Department of Environmental Protection
Permitting Program

Approved by:

Richard S. Rachal III, P.G.
Permitting Program Administrator

Date: **November 3, 2015**