

Best Available Control Technology (BACT) Determination
Shands Jacksonville Medical Center, Inc.
Facility ID 0310142
Duval County

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

The permittee has applied for a construction permit for a natural gas fired 16.4 MMBtu per hour heat input, steam generating boiler. Distillate No. 2 fuel oil may be used during periods of natural gas curtailment or gas supply emergencies for no more than 400 hours per year per applicant's request. Distillate No. 2 fuel oil may be utilized as a backup fuel and shall be limited to may be fired for up to 48 hours per calendar year for periodic testing purposes.

BACT Determination Requested by Applicant:

Particulate matter emissions and sulfur dioxide emissions shall be controlled by the firing of natural gas or low sulfur content Distillate No. 2 fuel oil. The sulfur content of the fuel oil shall not exceed 0.05% by weight.

Date of Receipt of BACT Application:

October 3, 2018

BACT Determination by the Department:

Particulate matter emissions and sulfur dioxide emissions shall be controlled by the firing of natural gas or low sulfur content Distillate No. 2 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 MMBtu/hr firing rate) and is more stringent than 40 CFR 60 Subpart Dc, New Source Performance Standards.

Any questions may be directed to the project manager, Harry D. Smith at (904) 255-7196 or by email, hsmith@coj.net.

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

Date