# Best Available Control Technology (BACT) Determination

The applicant has submitted a permit application for two (2) existing stream and hot water boilers. The boilers have a maximum heat input of 25.1 x $10^6$ Btu per hour and 3.35 x $10^6$ per hour. The boilers are fired exclusively with natural gas.

This BACT determination is required for the source as set forth in Rules 62-296.400, 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 Emission Units and Rule 2.901, Jacksonville Environmental Protection Board (JEPB).

**BACT Determination Requested by Applicant:**

Particulate matter and sulfur dioxide emissions are to be controlled by the firing of natural gas.

**Date of Receipt of BACT Application:**

June 12, 1996

**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 natural gas shall be BACT for boilers.

This decision is consistent with previous BACT Determination for similar units and with 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

**Details of the Analysis may be obtained by contacting:**

Gloria Hunter-Barnes, Environmental Engineer
Neighborhoods Department
Environmental Quality Division
214 N. Hogan Street, 5th Floor
Jacksonville, Fl 32202

**Approved by:**

Richard L. Robinson, P.E.
Pollution Control Engineer

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