

**BACT Determination for Heat Recovery Steam Generators for  
Emissions Unit 001 & 002**

**Best Available Control Technology (BACT) Determination  
GRU Energy Center South  
Alachua County**

The applicant has submitted a construction permit application for construction permit for two 35.5 MMBtu/hour Heat Recovery Steam Generators. The boilers are fired with natural gas.

This BACT determination is required for the source as set forth in Rules 62-204.400(7), F.A.C., - Specific Emission Limiting and Performance Standards and 62-296.406, F.A.C., - 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.

**Date of Receipt of BACT Application:** April 4, 2007

**BACT Determination by ( DEP Northeast District):**

The amount of particulate matter and sulfur dioxide emissions from the boilers shall be limited by the firing of natural gas.

**BACT Determination Rationale:**

Sulfur in 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 the boiler.

This decision is consistent with previous BACT determinations 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:**

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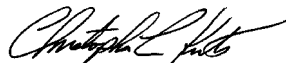
**Recommended by:**



MengChiu Lim  
Air Permitting Program

July 23, 2007  
Date

**Approved by:**



Christopher L. Kirts, P.E.  
District Air Program Administrator

July 25, 2007  
Date