

**Best Available Control Technology (BACT) Determination**  
**UNITED STATES GYPSUM COMPANY**  
**Gypsum Wallboard Manufacturing Plant**  
**Duval County**

This BACT determination is required for the source as set forth in Rules 62-296.400, Florida Administrative Code (FAC), 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 applicant has applied for a Title V air construction permit to construct three process steam generating boilers rated at a maximum heat input of 50.4 million Btu per hour each. The boilers require a BACT determination. These boilers are located at the United States Gypsum Company, Gypsum Wallboard Manufacturing Plant, 6825 Evergreen Ave., Jacksonville, FL. The boilers are designated as follows:

<u>Emission Unit ID No.</u>	<u>Brief Description</u>
098	Cleaver Brooks Boiler No. 1
099	Cleaver Brooks Boiler No. 2
100	Cleaver Brooks Boiler No. 3

**BACT Determination Requested by Applicant:**

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

**Date of Receipt of BACT Application:**

April 28, 2003

**BACT Determination by the Department:**

Particulate matter emissions and sulfur dioxide emissions shall be controlled 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.

This determination for small boilers (i.e., less than 100 million Btu/hr firing rate) is more stringent than Subpart Dc, New Source Performance Standards requirements for small boilers firing low sulfur distillate fuel oil.

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

Jerry E. Woosley, Environmental Engineer  
Regulatory and Environmental Services Department  
Air & Water Quality Division  
117 West Duval Street, Suite 225  
Jacksonville, FL 32202

**Approved by:**



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

6/16/03

**Date**