Best Available Control Technology (BACT) Determination

Packaging Corporation of America

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 Construction Permit to construct a 400 hp Superior Boiler at the existing Packaging Corporation of America located at 659 Eastport Road., Jacksonville, FL 32218. The boiler is designated as follows:

Emission Unit ID No.	Brief Description
003	400 hp Superior Boiler

The boiler heat input rate is 17.5×10^6 Btu/hr. The primary fuel is natural gas with No. 2 fuel oil as backup fuel. The No. 2 fuel oil shall be limited to a maximum of 125 gallons per hour and 21,000 gallons per year.

BACT Determination Requested by Applicant:

Particulate matter and sulfur dioxide emissions shall be controlled by the firing of Natural gas or No. 2 (distillate) fuel oil as a backup with a maximum sulfur content of 0.05% by weight.

Date of Receipt of BACT Application:

November 08, 2000

BACT Determination by the Department:

Particulate matter emissions and sulfur dioxide emissions shall be controlled by the firing of natural gas or very low sulfur content 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 100×10^6 Btu/hr firing rate) and is more stringent than Subpart Dc, New Source Performance Standards.

Details of the Analysis May be Obtained by Contacting:

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Air & Water Quality Division
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Approved by:

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