



Department of Environmental Protection

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BEST AVAILABLE CONTROL TECHNOLOGY (BACT) DETERMINATION

International Paper Company
Construction Permit # 1050076-009-AC
Polk County

International Paper Company has submitted an application dated September 26, 2006 for a construction permit to install a new Cleaver-Brooks Model CB-LE-200-500-250 PSIG boiler at their Auburndale facility. The boiler has a maximum heat input rate of 24.2 million BTU per hour (MMBTU/hr.) and will be fired with natural gas as the primary fuel, and No. 2 fuel oil as a backup.

This BACT determination is required for the source as set forth in Rule 62-296.406, Florida Administrative Code - Fossil Fuel Steam Generators With Less Than 250 MMBTU/hr. 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 or No. 2 fuel oil with a maximum sulfur content not to exceed 0.5 percent, by weight.

Date of Receipt of BACT Application: September 26, 2006

BACT Determination by DEP: The quantity of particulate matter and sulfur dioxide emissions from the boiler shall be limited by the firing of natural gas or new No. 2 fuel oil with a maximum sulfur content not to exceed 0.05 percent, by weight.

BACT Determination Rationale: Sulfur in fuel is a primary air pollution concern, since most of the fuel's sulfur becomes sulfur dioxide. Also, particulate matter emissions from fuel burning are related to the sulfur content. The Department has performed air dispersion modeling analyses on small natural gas/oil fired boilers typical of this boiler. These analyses show that all standards and increments will be met with the use of natural gas or No. 2 fuel oil containing a maximum sulfur content of 0.05 percent, by weight. Distillate fuel oils containing 0.05 percent sulfur, by weight, or less are available and cost only a few cents per gallon more than fuel oils with 0.5 percent sulfur, by weight.

Details of the Air Dispersion Analysis May be Obtained by Contacting:

Department of Environmental Protection
Bureau of Air Regulation
Twin Towers Office Building
2600 Blair Stone Road, MS #5505
Tallahassee, Florida 32399-2400

Recommended by:



Cindy Zhang-Torres, P.E.
District Air Permitting Supervisor

11/29, 2006

Approved by:



Mara Grace Nasca
District Air Program Administrator

Nov. 29, 2006