

Best Available Control Technology (BACT) Determination
Westvaco Corporation
Polk County

The applicant plans to construct a new 500 HP process steam boiler at a facility in Mulberry, Florida. The boiler will operate up to 8760 hours per year.

This BACT determination is required for the source as set forth in the Florida Administrative Code Rule 17-2.600(6) - Emission Limiting and Performance Standards.

BACT Determination Requested by the Applicant:

Particulate and sulfur dioxide emissions to be controlled by the firing of natural gas. No. 2 fuel oil with a maximum of 0.5 percent sulfur, by weight, will be used as a back up fuel.

Date of Receipt of a BACT Application:

September 10, 1992

Review Group Members:

The determination was based upon comments received from the Permitting and Standards Section and the Southwest District.

BACT Determination by DER:

The amount of particulate and sulfur dioxide emissions from the boiler will be limited by the firing of natural gas. No. 2 fuel oil with a maximum of 0.5 percent sulfur, by weight, will be used as a back up fuel.

BACT Determination Rational:

Sulfur in fuel is a primary air pollution concern, since most of the fuel sulfur becomes sulfur dioxide and particulate matter emissions when the fuel is burned.

Part 60, subpart Dc, section 60.42c(d) of the Federal Register states, "...no owner or operator of an affected facility that combusts oil shall cause to be discharged ...any gases that contain sulfur dioxide in excess of 215 ng/J (0.50 lb/MMBtu) heat input; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil ...that contains greater than 0.5 weight percent sulfur." This standard applies to all units for which construction, modification, or reconstruction is commenced after June 9, 1989 and that have a maximum design heat input capacity of 29 MW (100 MMBtu/hr) or less, but greater than or equal to 2.9 MW (10 MMBtu/hr).


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Based on the information presented in this analysis, the Department has determined that BACT for the boiler is represented by firing natural gas or No. 2 fuel oil with a sulfur content not to exceed 0.5 percent, by weight

Details of the Analysis May be Obtained by Contacting:

Michael Hewett, BACT Coordinator
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400


Recommend by:



C. H. Fancy, P.E., Chief
Bureau of Air Regulation

_____, 1992
Date

Approved by:



Howard L. Rhodes, Director
Division of Air Resource Management

Sept 28, 1992
Date