BEST AVAILABLE CONTROL TECHNOLOGY (BACT) DETERMINATION

Florida Distillers Company, Lake Alfred Plant
Construction Permit 1050090-006-AC
Polk County

The above company has submitted an application for a construction permit for a new 600 HP (25.1 MMBtu/hour heat input rating) Cleaver Brooks Model CB 700/ 600 boiler (Emission Unit EU 007). This boiler will be fired on natural gas only.

This BACT Determination is required for the emission units as set forth in the Florida Administrative Code (F.A.C.) Rule 62-296.400 - *Specific Emission Limiting and Performance Standards* and Rule 62-296.406 - *Fossil Fuel Fired Steam Generators with less than 250 million Btu's 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 only.

Date of Receipt of BACT Application: December 12, 2001

BACT Determination by DEP:

The amount of particulate matter and sulfur dioxide emissions from the boiler shall be limited by the firing of natural gas as the only permitted fuel for this boiler..

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 Department has performed air dispersion modeling analyses on small natural gas fired boilers typical of those recently permitted in Florida. These analyses show that all standards and increments will be met with the use of natural gas.

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
Tallahassee, Florida 32399-2400

Recommended by/Date:

James L. McDonald for 3-21-02
Gerald Kissel, P.E.
SW District Air Engineer

Approved by/Date:

W. C. Thomas
William C. Thomas,
SW District Air Administrator