

BEST AVAILABLE CONTROL TECHNOLOGY (BACT) DETERMINATION
Morton Plant Mease Health Care
Mease Dunedin Facility
Pinellas County

The company has submitted an application for an after-the-fact construction permit for two existing 10 MMBtu/hr boilers. The boilers have burners which fire natural gas or No. 2 distillate oil with a maximum sulfur content of 0.05%.

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 No. 2 fuel oil with a maximum sulfur content not to exceed 0.05 percent, by weight.

Date of Receipt of BACT Application: November 1, 1995

BACT Determination by DEP:

The amount of particulate matter and sulfur dioxide emissions from the boilers shall be limited by the firing of No. 2 fuel oil with a maximum sulfur content not to exceed 0.05 percent, by weight.

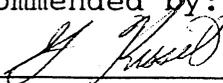
BACT Determination Rationale:

Sulfur in fuel is a primary air pollution concern since most of the fuel 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 those recently permitted in Florida. These analyses show that all standards and increments will be met with the use of natural gas or distillate (No. 2) oil containing a maximum sulfur content of 0.05%.

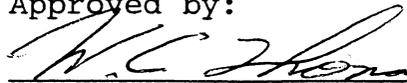
Details of the Air Dispersion Analysis May be Obtained by Contacting:

Martin Costello, P.E., BACT Coordinator
Department of Environmental Protection, Bureau of Air Regulation
Twin Towers Office Building, 2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Recommended by:

 2/28/96
Gerald Kissel, P.E.
SW District Air Engineer

Approved by:

 2/28/96
William C. Thomas, P.E.
SW District Air Administrator