Best Available Control Technology (BACT) Determination
R.P. Scherer North America
Pinellas County

R.P. Scherer North America submitted an application received on June 22, 1998, for construction permit 1030112-006-AC, which was issued on December 18, 1998, to install 2 new boilers at 2725 Scherer Drive, St. Petersburg. The boilers are each only fired with natural gas (primary fuel) or propane (backup) at a maximum heat input rate of 12.6 million BTU per hour (MMBTU/hr.).

This BACT determination is required for a 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 propane.

Date of Receipt of BACT Application: June 22, 1998.

BACT Determination by DEP:

The amount of particulate matter and sulfur dioxide emissions from each boiler shall be limited by the firing of natural gas or propane.

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 modelling analyses on small natural gas/oil fired boilers typical of these boilers. These analyses show that all standards and increments will be met with the use of natural gas or propane.

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

A. A. Linero, P.E. Supervisor, New Source Review Section
Department of Environmental Protection
Bureau of Air Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Recommended by:

Gerald Kissel, P.E.
SW District Air Engineer

December 6, 1999

Approved by:

William C. Thomas, P.E.
SW District Air Program Administrator

Dec. 6, 1999