Florida Department of Environmental Protection

Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

Lifoam Industries, LLC
Best Available Control Technology (BACT) Determination

Pinellas County
Construction Permit No. 1030214-011-AC

Life-Like Acquisitions, Inc. dba Lifoam Industries, LLC has submitted an application on February 8, 2010 for a construction permit to install a new 400 HP Cleaver Brooks Model CBLE700-400-150 process seam boiler at the Lifoam Industries, LLC St. Petersburg facility. The boiler is fired with natural gas only, at a maximum heat input rate of 16.324 million BTU per hour (MMBTU/hr.).

This BACT determination is required for the source as set forth in Rule 62-296.406, Florida Administrative Code - Emission Standards for Fossil Fuel Fired Steam Generators with Less Than 250 million BTU/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 only.

Date of Receipt of BACT Application: February 8, 2010

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 only.

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/low sulfur 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 only.

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, MS #5505
Tallahassee, Florida 32399-2400

Recommended by:

Cindy Zhang-Torres

Cindy Zhang-Torres, P.E.
Air Permitting Manager
Southwest District

April 14, 2010

Approved by:

Mara Grace Nasca

Mara Grace Nasca
District Air Program Administrator
Southwest District

April 15, 2010