FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Rick Scott
Governor

Herschel T.
Vinyard Jr.
Secretary

Best Available Control Technology (BACT) Determination
Sofidel America, Inc
Sofidel America – Haines City Operation
Polk County
Construction Permit No. 1050380-008-AC

Sofidel America, Inc. has submitted an application dated November 5, 2013 for a construction permit to install a new auxiliary boiler (E.U. No. 009) at their Haines City Operation facility. The boiler is fired with natural gas having a maximum sulfur content of 0.0018 percent, by weight, at a maximum heat input rate of 21 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 only natural gas.

Date of Receipt of BACT Application: November 5, 2013

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.

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 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, MS #5505
Tallahassee, Florida 32399-2400

Approved by:

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Kelley M. Boatwright
District Air Program Administrator
Southwest District

January, 21, 2014