Best Available Control Technology Determination

Pilgrim's Pride Corporation
Live Oak Feed Mill
Suwannee County

This BACT Determination is required for the source as set forth in Rule 62-296.400, Florida Administrative Code (F.A.C.) - Specific emission Limiting and Performance Standards, and Rule 62-296.406, F.A.C. - Fossil Fuel Steam Generators with less than 250 MMBtu per Hour Heat Input, New and Existing Sources.

The applicant has applied for a permit to construct a new 500 HP Johnston Boiler at the existing Live Oak Feed Mill. The new boiler will be rated at a nominal 20.93 MMBtu per hour heat input firing natural gas or No. 2 fuel oil.

BACT Determination Requested by the Applicant

Particulate matter (PM) and Sulfur Dioxide (SO_2) emissions shall be controlled by the use of natural gas or very low sulfur No. 2 fuel oil (maximum of 0.5% sulfur content by weight).

Date of Receipt of BACT Application

June 29, 2010

BACT Determination by the Department

PM and SO_2 emissions shall be controlled by the use of natural gas or ultra low sulfur No. 2 fuel oil (maximum of 0.05% sulfur content by weight).

BACT Determination Rationale

Sulfur in fuel is a primary air pollution concern since most of the fuel sulfur becomes SO_2. PM emissions are also related to the sulfur content of the fuel oil.

This determination is consistent with other recent BACT Determinations for small boilers (i.e. less than 100 MMBtu per hour heat input) and is more stringent than 40 CFR 60, Subpart Dc, New Source Performance Standards' requirements for very low sulfur fuel oil (i.e., 0.5% sulfur content by weight).

Details of the analysis may be obtained by contacting:

Jerry Woosley, Environmental Specialist
Department of Environmental Protection
Northeast District Office
Air Resources Section
7825 Baymeadows Way, Suite 200B
Jacksonville, FL 32256

Approved by:

8/12/2010

Christopher Kirts, P.E., Air Administrator
Northeast District Office

Date