

Best Available Control Technology (BACT) Determination

PCS Sales Inc.
Columbia County

The applicant has submitted a construction permit application for two existing NSPS boilers. Each boiler will now be permitted to operate (8760 hour per year). They have a maximum heat input of 20.9 MMBtu/hr each and are currently operated with No. 2 fuel oil containing 0.05% percent sulfur, by weight and Natural Gas.

This BACT determination is required for the source as set forth in Rules 62-204.400(7), F.A.C. - Specific Emission Limiting and Performance Standards and 62-296.406, F.A.C., - Fossil Fuel Steam Generators with less than 250 Million Btu per hour Heat Input, New and Existing Sources.

BACT Determination Requested by Applicant:

Particulate matter and sulfur dioxide emission 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: April 11, 2007.

BACT Determination by DEP NED District Air Program):

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 and Natural Gas.

Visible Emissions- < 20% Opacity except one two-minute period per hour during which opacity shall not exceed 40 percent. (Rule 62-296.406(1), F.A.C.).

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.

Based on the firing of No. 2 fuel oil with a maximum sulfur content not to exceed 0.05% percent, by weight, shall be BACT for the boilers. This decision is consistent with previous BACT determinations for similar units and 40 CFR 60 Subpart Dc- Standards of Performance for Small Industrial- Commercial Institutional Steam Generating Units.

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Details of the Analysis May be Obtained by Contacting:

Leslie Maybin, Engineer IV
Florida Department Of Environmental Protection
Northeast District
7825 Baymeadows Way Suite B-200
Jacksonville, Florida 32256

Recommended and Approved by:

A handwritten signature in black ink, appearing to read "Christopher L. Kirts". The signature is fluid and cursive, with a large initial "C" and "K".

Christopher L. Kirts, P.E.
Air Permitting Program
District Air Program Administrator

Date: 6/21/2007