

**BACT Determination for No.1, No.2 and No.3 Steam Boiler**

**Best Available Control Technology (BACT) Determination  
Griffin Industries, Inc.  
Bradford County**

The applicant has submitted a construction permit application for construction permit to allow the use of No.2 fuel oil and natural gas for the existing No.1, No. 2 and No.3 steam boiler. The boilers are currently allowed to fire No.6 fuel oil (Subject to BACT determination dated 10/21/1988 and 01/25/1991), on-specification used oil and processed grease.

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:**

When firing No.2 fuel oil, the particulate matter and sulfur dioxide emissions are to be controlled by limiting the sulfur content of the fuel to no more than 0.05 %, by weight.

**Date of Receipt of BACT Application:** March 18, 2010

**BACT Determination by (DEP Northeast District):**

The amount of particulate matter and sulfur dioxide emissions from the boilers shall be limited by the firing of low sulfur content distillate fuel oil. The sulfur content of the No.2 fuel oil shall not exceed 0.05 %, by weight.

**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. The BACT for the boilers is

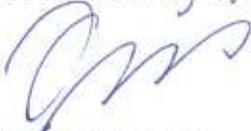
When firing No.2 fuel oil, the particulate matter and sulfur dioxide emissions are to be controlled by limiting the sulfur content of the fuel to no more than 0.05 %, by weight.

This decision is consistent with previous BACT determinations for similar units and with 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. This decision is solely for the firing of No.2 fuel oil. BACT determination issued 10/21/1988 and 01/25/1991 remain in effect and are unchanged.

Details of the Analysis May be Obtained by Contacting:

MengChiu Lim  
Florida Department of Environmental Protection  
7825 Baymeadows Way, Suite B200  
Jacksonville, FL-32256-7590

**Recommended by:**



MengChiu Lim  
Air Permitting Program

5/14/2010  
Date

**Approved by:**



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

17 MAY 2010  
Date