

COMMONWEALTH OF PENNSYLVANIA
Department of Environmental Protection
Southwest Regional Office

August 3, 2000
8-412-442-5225

SUBJECT: Review of Title V Operating Permit Application
Ebensburg Power Company
Cambria County

TO: Air Quality Permit File: TV OP # 11-00318

FROM: Noor Nahar *Nh*
Air Pollution Control Engineer
Air Quality

THROUGH: *MAW 8-3-00*
Mark A. Wayner, Chief
Title V Facilities Section
Air Quality

Background:

Ebensburg Power company owns and operates a waste coal-fired steam and electric cogeneration facility located in Cambria County, Pennsylvania. The plant sells electricity to Pennsylvania Electric Company (PENELEC) and exports steam to Ebensburg Center, a residence facility for mentally handicapped people. The company received the Plan Approval from the Department in 1988 and has been in operation since 1990. The plant has increased its output capacity from 660 MMbtu/hr to 725 MMbtu/hr in 1997.

As a result of the emission levels, Ebensburg Power Company is a major stationary source as defined in Title I, Part D of the Clean Air Act Amendments. As such, the facility is subject to the Title V permitting requirements adopted at 25 Pa. Code, Chapter 127, Subchapter G. Notice under 25 Pa. Code § 127.505 was received by Ebensburg Power Company from the Department on May 30, 1995 resulting in a Title V permit application due date of September 30, 1995. The application was deemed timely and administratively complete on November 13, 1995. An application shield, as described in 25 Pa. Code § 127.505(e) was granted at that time.

Regulations:

The facility went through NSPS and PSD review at the time of construction. It was subject to NSPS for fossil fuel-fired steam generators (40 CFR Part 60 Subpart D, Da). Also it was subject to PSD review since the proposed sources would result in net increases higher than the significant levels for criteria pollutants SO₂, CO and NO_x and particulates. BACT determinations were required for those constituents.

In addition to State SIP and Plan Approval/Operating Permit requirements, the facility is subject to 40 CFR Part 75 Continuous Emission Monitoring requirements.

These requirements have been incorporated into the proposed Title V Operating Permit by reference.

Emission Information:

The air emission units at the Ebensburg Power facility consist of a number of combustion and process emission units, many with dedicated air pollution control devices, and many which generate only fugitive particulate emissions. The primary combustion source is a circulating fluidized bed (CFB) boiler with manufacturer's design rating capacity of heat input 750 MMbtu/hr. The other combustion sources are a natural gas-fired auxiliary boiler (61.2 MMbtu/hr) and three emergency diesel engines to provide the plant with a redundant source of critical backup power. Sources of fugitive particle emissions in this plant include the fuel handling, crushing and storage, limestone and ash storage/handling system and some other insignificant sources.

All applicable requirements for this facility are specified in this Title V permit. The CFB boilers are equipped with continuous emission monitoring system (CEMS) for measuring NO_x, SO₂ and opacity. Compliance with the emission limitations on the boiler will be determined through the use of CEMS. Sources of particulate emissions are equipped with baghouses. A daily inspection log will be maintained for visible emissions. The smaller sources will determine compliance through recordkeeping and maintaining the sources in accordance with manufacturer specifications.

Amendments:

Ebensburg Power Company has compared the operations at this facility with those in effect at the time of this review, to those in effect at the time of the Title V application submittal. The amendment was received on March 31, 1999.

Operational Flexibility:

The Title V permit may include provisions to allow a permitted facility to make certain changes without requiring a permit revision. Ebensburg Power Company wishes to retain the flexibility to operate continuously, no alternative operating scenarios were proposed.

Conclusions and Recommendations:

I have completed my review of Ebensburg Power Company's Title V permit application. Ebensburg Power Company has met the regulatory requirements associated with this application submittal. It is my recommendation to issue a Title V permit for this facility.

NN:njh