

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

(RACT)
OPERATING PERMIT

In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P. L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the rules and regulations of the Department of Environmental Protection, the Department hereby issues this permit for the operation of the air contamination source described below.

Permit No.	<u>13-0003</u>	Source &	<u>2 Fluidized Bed Boilers & Associated Fuel, Limestone & Ash Handling Equipment; 1 Auxiliary Boiler; One 310 bhp Fire Pump</u>
Owner	<u>Panther Creek Partners</u>	Air	<u>Motor; 14 Portable Kerosene Heaters; 10 Fabric Collectors;</u>
Address	<u>R.R. #1, Box 25</u>	Cleaning	<u>Thermal DeNOx; Limestone Injection & Wet Supression</u>
	<u>Nesquehoning, PA 18240</u>	Device	
Attention:	<u>Mr. Richard Paul</u>	Location	<u>Nesquehoning Borough</u>
	<u>Environmental Technician</u>		<u>Carbon County</u>

This permit is subject to the following conditions:

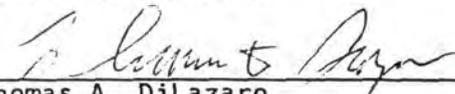
- (1) That the source and any associated air cleaning devices are to be:
 - (a) operated in such a manner as not to cause air pollution;
 - (b) operated and maintained in a manner consistent with good operating and maintenance practices.
- (2) This permit is valid only for the specific equipment, location and owner named above.

SEE ATTACHED.

Failure to comply with the conditions placed on this permit is in violation of Section 127.25. Violation of this or any other provision of Article III of the rules and regulations of the Department of Environmental Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued DEC 2 1996

~~Expires October 31, 2001~~



 Thomas A. DiLazaro
 Program Manager
 Air Quality Program

RECEIVED
Office of Air Quality Sources
Division (2412)

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EPA, REGION III

~~(7) Pursuant to the Best Available Control Technology provisions of 25 Pa. Code 127.83 (40 CFR 52.21(j)(2)), the following emission limits are hereby established for each of the facility's fluidized bed combustion units. The following emission limits for Particulates, PM-10 and VOC apply at all times. The following emission limits for CO and SO₂ apply during all operations, except during those special operating conditions described in Condition (8).~~

Pollutant	Allowable Pounds/ 10 ⁶ Btu Heat Input	Allowable lbs/hour
Particulate	.017	8.22
PM-10	.014	6.77
SO ₂ 24-hour daily avg. maximum	.156	75.4
CO 1-hour average	.180	87.0
VOC 1-hour average	.005	2.42

- (8) On and after Department approval of the additional continuous emission monitoring systems, the following provisions shall govern emissions of NO_x, CO and SO₂, during Special Operating Conditions as defined in Condition (8)(a):
- (a) Special Operating Conditions mean those periods (including periods of startup, shutdown, process recovery, generation curtailment, and utility emergency conditions) when the bed temperature of a circulating fluidized bed (CFB) combustion unit is less than 1,400° F (as recorded on the facility's Distributed Control System) and fuel oil is used as a sole or supplemental fuel. For purposes of this definition, the bed temperature of a unit shall be measured as the average over a 15-minute increment (4 increments per hour).
 - (b) Where only one CFB combustion unit is in a Special Operating Condition:
 - (i) The CFB unit which is not in Special Operating Condition shall individually remain subject to the emission limitations set forth in Condition Nos. (6) and (7);
 - (ii) The CFB combustion unit which is in Special Operating Condition shall not be subject to the emission limits set forth in Condition Nos. (6) and (7); and

- (d) The Permittee shall maintain the following records for each unit with respect to Special Operating Conditions:
- (i) The date and time of start and end of the event;
 - (ii) The bed temperature on a 15-minute increment average basis;
 - (iii) The timing of introduction and termination of fuel oil burners, and the total fuel oil consumed during the event; and
 - (iv) Combined emissions from both boilers for the duration of such event, based on monitoring as specified in Condition Nos. (13) and (14).

The bed temperature (measured as averages over 15 minute increments) shall be continuously recorded as a separate channel in the continuous emission monitoring system. Bed temperatures below 1,400° shall set a low temperature event flag in the system data for all pollutant channels. This temperature channel will not be subject to the performance specifications of the Continuous Emission Monitoring Manual.

- (e) The Permittee shall comply with the following reporting requirements for each unit with respect to Special Operating Conditions:
- (i) For periods when a CFB combustion unit is in a Special Operating Condition, the CEM reports submitted to the Department pursuant to Condition No. (15)(b) for that unit shall be coded II13.09, and emissions of SO₂, NO_x, and CO shall not be reported on the CEM report.
 - (ii) Based on the records required under Condition No. 8(d), the Permittee shall separately prepare and submit an excess emissions report to the Department (addressed to the Air Quality Program Manager, Northeast Regional Office as specified in Condition No. (19)) for each quarter in which any of the alternative emission limitations set forth in Condition No. 8(b) or (c) are exceeded. Such excess emissions report shall be submitted within thirty (30) days after each calendar quarter, and shall contain the following information for each event in which an exceedance occurs:

~~(12) This facility is subject to Subpart Da and Y of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR §60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:~~

~~Director
Air, Toxics and Radiation Division
US EPA, Region III
841 Chestnut Street
Philadelphia, PA 19107~~

(13) Oxygen, sulfur dioxide, nitrogen oxide, carbon monoxide, heat input and opacity shall be monitored and recorded continuously on each CFB boiler to monitor compliance with the emission limits specified in Conditions (6), (7), (8), (9) and (11). Recordkeeping and reporting procedures must be in accordance with the requirements of the Continuous Source Monitoring Manual. The following protocols shall apply to the monitoring and reporting of emissions from the CFB boilers:

(a) Whenever the oxygen (O₂) level is measured at 18.5 percent or greater, the Continuous Emission Monitoring System calculation for determining compliance with the emission limitations for NO_x, SO₂, and CO, expressed as allowable pounds per 10⁶ Btu heat input rate and allowable pounds per hour, shall be deemed invalid.

(b) "Process Down" on a particular CFB unit for NO_x, SO₂, and CO emissions shall be defined as periods when no fuel is being fed to the CFB boiler unit.

(14) (a) The continuous emission monitoring systems for sulfur dioxide, nitrogen oxide, carbon monoxide, oxygen, heat input, and opacity as approved by the Department, must be operated and maintained in accordance with the quality assurance, recordkeeping and reporting requirements of Chapter 139 of the Pennsylvania Department of Environmental Protection Rules and Regulations and the Department's Continuous Source Monitoring Manual. The required data reports shall be submitted to the Department's Central Office, in hardcopy and computer-readable-media formats as specified by the Department, within thirty (30) days following the close of each calendar quarter.

- (16) If requested by the Department, the company shall perform a stack test in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection within the time specified by the Department.
- (17) The Expiration date shown on the Operating Permit is for State purposes. For Federal Enforcement purposes, the Operating Permit shall remain in effect as part of the State Implementation Plan (SIP) until replaced pursuant to 40 CFR 51.4 and approved by the US Environmental Protection Agency (EPA). The Operating Permit shall become enforceable by the US EPA upon its approval of the above as a revision to the SIP.
- (18) The permittee shall keep records showing the operation of CFB boilers and auxiliary boiler. Recordkeeping shall be in a format approved by the Department and shall be submitted to the Regional Air Quality Program Manager by January 31 of the following year.
- (19) Any notification required as a result of any condition herein should be directed to:

Thomas A. DiLazaro
Program Manager
Department of Environmental Resources
Air Quality Program
2 Public Square
Wilkes-Barre, PA 18711-0790

