

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

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. | 40-0031A | Source & | One (1) Natural Gas Turbine Rated at 785 MMBTU/hr. LHV |
| Owner | Williams Generation Company - Hazleton | Air | |
| Address | R.R. 1, Box 409-D | Cleaning | Water Injection System |
| | Hazleton, PA 18201 | Device | |
| Attention: | Ms. Terrie Blackburn Sr. Environmental Engineer | Location | Hazle Township Luzerne County |

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. in compliance with the specifications and conditions of the plan approval issued under the same number;
 - C. 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.

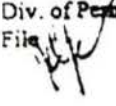
(SEE ATTACHED)

Failure to comply with the conditions placed on this permit is in violation of Section 127.444. Violation of this or any other provisions 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

WAR 10 2000


Thomas A. DiLazaro
Program Manager
Air Quality Program

cc: Div. of Permits
File 

AIR QUALITY
COUNTY:

WAR 10

FACILITY:
PERMIT:

- (5) This Operating Permit includes Reasonable Available Control Technology (RACT) determinations for the following sources as required by Title I of the CAAA.
- (a) Natural gas combustion turbine with a rated capacity of 785 MMBTU/Hr. HHV. Back-up fuel used is No. 2 fuel oil.
 - (b) Emergency diesel generator (EDG) with a rated capacity of 185 bhp and estimated operation of 100 hrs. per year.
 - (c) Domestic gas boiler with rated capacity of 6.3 MMBTU/Hr. and estimated operation of 2,920 hrs. per year.
 - (d) Large natural gas heater with rated capacity of 1.5 MMBTU/Hr. and estimated operation of 8,000 hr. per year.
 - (e) Small natural gas heater with rated capacity of 0.4 MMBTU/Hr. and estimated operation of 4,000 hr. per year.
- (6) Pursuant to the best available control technology provision of 25 PA Code 127.83 (40 CFR, 52.1 (j) (2), the following emission limits are hereby established for the facility's combustion unit (turbine):

| Pollutant | Allowable PPMVD During Normal Operation | Allowable Pounds Per Hour At Any Time |
|--------------------|--|--|
| NOx 1-Hour Average | 75 PPMVD @15 % O ₂ | 252.4 |

- (7) Whenever the turbine is in the start up period the allowable PPMVD emission limit listed in condition No. 6 does not apply. The company shall meet only the pounds per hour emission limit of the pollutant as listed in condition #6. The start up period of the turbine is determined below:

The start up period is a period from no electrical generation up until the turbine reaches 50% of rated capacity, not to exceed three hours. Above three hours period from startup time will be consider as a normal operation and the PPMVD limit as listed in condition #6 shall apply.

However, the Department reserves the right to change; the startup definition of the unit based on information available later.

- (8) Total emissions from the facility shall not exceed the following emission limit on a 12-month rolling average basis:

| Pollutant | Total Annual Emissions Tons Per Year |
|-----------|---|
| NOx | 252.4 |

The facility must cease operation or obtain prior approval under applicable regulations if the pollutant exceeds the total annual emissions tons per year limit.

- (12) The company shall not operate this facility more than 2,000 hours per year on a 12 month rolling sum.
- (14) The company shall maintain. following records:
- (a) Data which clearly demonstrates that the beat input for the turbine never exceeds its rated capacity.
 - (b) Data which clearly demonstrates that the turbine never exceeds the operational limit of 2,000 hours per year on a 12 month rolling sum.
 - (c) The records shall provide sufficient data to clearly demonstrate that the requirements of this operating permit are Met.
 - (d) All records shall be maintained for at least two years and shall be made available to the department upon request.
- (15) The company shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the water injection rate in the turbine. This system shall be accurate to within 5 % and shall be approved by the department.
- (16) Oxygen, nitrogen oxide, and stack gas flow rate shall be monitored and recorded continuously to monitor compliance with the emission limits specified in condition (6). Record.keeping and reporting procedures must be in accordance with the requirements of the continues source monitoring manual.
- (17) The continues emission monitoring systems for nitrogen oxide, oxygen, and stack gas flow rate must be installed, operated maintained and approved by the Department within 180 days of start of operation in accordance with the quality assurance, recordkeeping and reporting requirements of Chapter 139 of the Pennsylvania Department of Environmental Protection's Rules and Regulations and the Department's Continuous Source Monitoring Manual. (A) Proposals containing information as listed in the Phase I section of the Department's Continuous Source Monitoring Manual for CEMS (s) must be submitted within 30 days of start of operation.
- All CEM reports shall be submitted to the Department within thirty (30) days after each quarter but no later than the time frame established in the Department's latest Continuous Source Monitoring Manual. The Department reserves the right to require the report submission in floppy disks with a format acceptable to the Department.
- (18) NO_x, RACT for the Emergency Diesel Generator (EDG) shall be regulated under the presumptive RACT emission limitations as described under 25 Pa. Code, Chapter 129.93(c)(3). Internal combustion engines rated at less than 500 bhp (gross) which are set and maintaining 4° retarded relative to standard timing. Presumptive RACT shall be the maintenance and operation of the sources in accordance with the manufacturers specifications. The sources shall also be operated and maintained in accordance with good air pollution control practices.

- (19) NO_x RACT for the domestic boiler, large natural gas heater, and small natural gas heater shall be regulated under the presumptive RACT emission limitations as described under 25 Pa. Code, Chapter 129(c)(1). Each source shall be limited to a maximum heat input of 20 MMBTU/hr. The source shall also be operated and maintained in accordance with good air pollution control practices.
- (20) Recordkeeping and reporting requirements are as follows:
- (a) The company shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of this operating permit, 25 PA Code Section 129.95, such that records provide sufficient data and calculations to clearly demonstrate that the requirements of PA Code Sections 129.91-4 are met. The file shall include, but not be limited to: all air pollution control systems performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this Operating Permit. All measurements, records and other data required to be maintained by the company shall be retained for at least two years following the date on which such measurements, records or data are recorded.
- (28) General Requirements
- D. This source is subject to Subpart GG 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:

Air Protection Division
US EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029