

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
SOUTHCENTRAL REGION - FIELD OPERATIONS  
AIR QUALITY CONTROL PROGRAM

APR 27 1995

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 Resources, the Department hereby issues this permit for the operation of the air contamination source described below.

Permit No: 28-2003 Source & Air  
Cleaning Device: (See Attached)

Owner: Columbia Gas Transmission Corp.

Address: 1700 MacCorkle Avenue, SE  
Charleston, WV 25314

Attention: Mr. Robert w. Welch, Jr. Location: Greencastle Compressor Station  
Vice President - Environmental Affairs 10750 Welsh Run Road  
Montgomery Township  
Franklin 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 Reasonably Available Control Technology (RACT) plan;
  - 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.
3. This operating permit is valid for a limited time only and may be renewed before its expiration. Requests for an operating permit renewal must be in writing and must be accompanied by a fee in the amount of \$500 payable to the "Commonwealth of Pennsylvania - Clean Air Fund." The request should be made on the attached Interim Application for Renewal of a Permit to Operate form and must be received by the Department along with a completed Compliance History form (attached) no later than OCT 21 1999.
4. See attached.

Failure to comply with the conditions placed on this permit is a violation of Section 127.444. Violation of this or any other provision of Article III of the rules and regulations of the Department of Environmental Resources will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued: APR 21 1995  
Expires: MAY 31 2000

  
Program Manager

Southcentral Region 28-2003  
York District  
PA, Region III  
Permits

PERMIT NO. 28-2003

COLUMBIA GAS TRANSMISSION CORPORATION

GREENCASTLE COMPRESSOR STATION

Source, Continued

This operating permit constitutes a RACT determination as per 25 Pa. Code, Section 129.91 for the following sources and operations at the Columbia Gas Transmission Corporation, Greencastle Compressor Station:

- a. Unit No. 1 - Solar Saturn Gas Turbine Model T1001, gas fired - 1,080 hp
- b. Unit No. 2 - Solar Saturn Gas Turbine Model T1001, gas fired - 1,080 hp
- c. Unit No. 3 - Solar Saturn Gas Turbine Model T1001, gas fired - 1,080 hp
- d. Unit No. 4 - Solar Centaur Gas Turbine Model T4000, gas fired - 3,550 hp
- e. Auxiliary Generator, Gas Fired - 150 hp

Conditions, Continued

4. Sources listed above (a) through (c) and (e) are subject to PRESUMPTIVE RACT as per the 25 Pa. Code, Section 129.93(c)(1).
5. The NO<sub>x</sub> emissions from the turbines listed in the sources shall not exceed the following limits noted in the RACT Proposal:
  - a. Units #1 through #3 - 110 ppmvd corrected to 15% O<sub>2</sub>
  - b. Unit #4 - 165 ppmvd corrected to 15% O<sub>2</sub>
6. The emission factor listed in Condition 5 shall not be applied to Units #1 through #3 during the turbines start and stop subject to maximum of 1 hour for each start and 1 hour for each stop.
7. Stack testing to determine the emission rate of NO<sub>x</sub> as NO<sub>2</sub>, CO, and NMVOC shall be performed on the above gas turbine Unit #4 within 180 days of issue of this operating permit.
8. Stack testing shall be performed in accordance with 25 Pa. Code, Section 139 and the current version of the Department Source Testing Manual.
9. A Stack Test Protocol is to be submitted to the Program Manager for approval at least 60 days prior to stack test.

PERMIT NO. 28-2003

COLUMBIA GAS TRANSMISSION CORPORATION

GREENCASTLE COMPRESSOR STATION

Conditions, Continued

10. The Department shall be notified at least two weeks in advance of the date and time of the stack test.
11. Two copies of the stack test results shall be submitted to the Program Manager for review within 60 days of completion of testing. The emissions shall be reported in the following units:
  - a. Concentration as measured - ppmvd corrected to 15% O<sub>2</sub>.
  - b. Specific output - g/hp-hr.
  - c. Total output, mass rate - lb/hr.
  - d. Total output, heat rate - lb/mmbtu.
12. Verification of the NO<sub>x</sub> emission standard listed in Condition 5 shall be conducted annually utilizing methodology outlined in 25 Pa. Code, Section 139 and the Department's Source Testing Manual or by other means approved by the Department.
13. The Department reserves the right to revise the emission standard listed in Condition 5, based on information obtained during the testing program outlined in Condition 7 through 11.
14. Columbia Gas shall report to the Program Manager any modification to the sources listed in this operating permit, which is expected to increase NO<sub>x</sub> and VOC emissions.
15. The facility shall maintain monthly record of operating hours and fuel consumption of the turbines listed above (a) through (d), and maintain annual record of the same.
16. The facility shall keep a record of maintenance and repairs to the sources.
17. The records listed in Conditions 15 and 16 shall be retained for two years, and shall be made available to the Department upon its request.
18. This operating permit supersedes Operating Permit No. 28-328-001 issued on April 1, 1993.

