

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
SOUTHWEST REGION - FIELD OPERATIONS
AIR QUALITY CONTROL
400 WATERFRONT DRIVE
PITTSBURGH, PENNSYLVANIA 15222-4745

RACT OPERATING PERMIT

In accordance with provisions of the Air Pollution Control 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.: 30-000-089

Source: Turbine, Boiler, & Generator

Owner: CNG Transmission Corporation

Air:
Cleaning:
Devices:

Address: P. O. Box 2450
Clarksburg, WV 26301

Plant: Crayne Station
Location: Franklin Township
County: Greene


Attention: Sean R. Sleigh

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 management practices.
- (2) This permit valid only for the specific equipment, location and owner named above.
- (3) See attached.

Failure to comply with the conditions placed on this permit is a 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 Resources will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued: 12/22/95


Joseph P. Pezze
Regional Air Quality Manager
Southwest Region

Permit Term: 12/22/95 ~~12/22/00~~

3. This Reasonably Available Control Technology (RACT) Permit indicates approval by the Department of the RACT proposal submitted by Consolidated Natural Gas (CNG) Transmission Corporation for the Crayne Station, located in Franklin Township, Greene County, Pennsylvania. This shall serve to consolidate Operating Permit No. 30-399-003 and 30-328-001 into this RACT permit.
4. Emission limits for the sources of this station were established in Plan Approvals 30-328-001 and 30-399-003 and are incorporated into this RACT Permit as follows:

TABLE 1

Emissions Limitations (pounds per hour/tons per year)

<u>Source</u>	<u>Rating</u>	<u>NO_x</u>	<u>CO</u>	<u>VOC</u>
Cummins GTA 743 Auxiliary Generator	275 hp	6.06/26.35	NA	NA
Peerless G1461 Boiler	0.42 mmbtu/hr	0.042/0.17	NA	NA
Solar Centaur-H Turbine	5500 hp	19.8/69.3	1.6/5.6	1.6/5.6
Solar Taurus Turbine	6500 hp	23.24/101.8	1.37/6.0	1.23/5.4

5. RACT for this station will be the reduction of emissions from the Solar Taurus Turbine (6500 hp) to 42 ppmv at 15% O₂, at the first overhaul (Condition 6 of Plan Approval 30-328-001), and operation and maintenance of all equipment in accordance with manufacturers specifications.
6. The Solar Centaur-H Turbine (5500 hp) shall be operated no more than 7,000 hours per year. All other equipment at this station may run continuously.
7. CNG shall perform EPA method stack tests on the exhaust from the 2 turbines once per five year period.
 - a. Within 90 days of issuance of this RACT Permit, CNG shall propose a stack testing schedule which takes into account the initial certification stack tests, and the stack testing which is required within 120 days of Solar Taurus Turbine (6500 hp) modification.

- b. Stack testing shall be performed while the turbines are operating at maximum rated capacity.
 - c. Pretest protocols shall be submitted to the Department for review at least sixty (60) days prior to the stack tests.
 - d. Stack testing shall be performed in accordance with 25 Pa. Code Chapter 139 Regulations and the Department's Source Testing Manual.
 - e. Natural gas fuel usage, horsepower, compressor speed, gas producer speed, gas transmission rate shall be recorded during the stack test.
 - f. CNG shall submit two copies of the EPA method stack test results to the Department within sixty (60) days of the testing.
8. a. CNG shall stack test annually, using portable analyzers, to confirm emissions of NO_x (as NO₂) CO and VOC in the exhaust from the 2 turbines.
- b. Turbines which operated for more than 750 hours during the previous year's ozone season shall be stack tested and semi-annually using portable analyzers.
- c. CNG shall submit a complete operating procedure for the portable analyzer, including calibration, QA/QC, and emissions calculations methods to the Department.
- d. Results from annual stack tests conducted with portable analyzers shall be retained at the site, and be made available to the Department upon request.
- ~~9. The Department reserves the right to revise the emission limits established above, based on actual emission rates.~~
10. Emission reductions of the targeted contaminant(s) below the level specified in this approval which are achieved by optimizing the effectiveness of equipment installed pursuant to this plan approval are not surplus emission reductions, and, thus, may not be used to generate Emission Reduction Credits. In order for the emission reductions to be creditable the emission reductions must satisfy the requirements of 25 Pa. Code Chapter 127, Subchapter E.

11. The two turbines are subject to Subpart GG of the Standards of Performance for New Stationary Sources, and shall comply with all applicable requirements of this Subpart.
 - a. 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
 - b. Permittee shall monitor the gas turbine in accordance with the provisions of 40CFR60.334 et seq. and any excess emissions shall be reported in accordance with 40 CFR 60.7(c) to the Pittsburgh office.
 - c. Permittee shall maintain appropriate records at the Crayne Station, Franklin Township, Greene County, for inspection in accordance with the provisions of 40 CFR 60.7(d).
 - d. Permittee shall comply with the provisions of 40 CFR 60.332(a)(2).
12. This RACT Permit is valid for a limited time only and may be renewed pursuant to 25 Pa. Code §127.446 before its expiration. An application for an operating permit renewal shall be submitted at least 6 and not more than 18 months before expiration of the existing permit. The application must be complete and accompanied by the permit fees required by Subchapter I of 25 Pa. Code Chapter 127. The source may not be operated without a valid operating permit. Operation of the source without an appropriate permit from the Department may subject the company to enforcement action.

BRH:mcc