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EPA

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
BUREAU OF AIR QUALITY CONTROL

V-008  
N-036

MAY - 2 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(s) described below.

*Revised*

Permit No.:	<u>OP-08-0002</u>	Source &	<u>Two (2) Dresser-Clark DC-990</u>
Owner:	<u>Tennessee Gas Pipeline Company</u>	Air	<u>(4500 horsepower) natural gas-</u>
		Cleaning	<u>fired turbines and the sources as</u>
Address:	<u>P.O. Box 2511</u>	Device:	<u>described herein</u>
	<u>Houston, TX 77252</u>		
Attn:	<u>Mr. Mikal Innerarity</u>	Location:	<u>Station 319</u>
			<u>Wyalusing Twp., Bradford Co.</u>

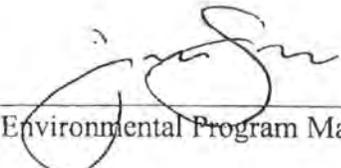
This permit is subject to the following conditions:

1. That the source(s) and any associated air cleaning device(s) 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 applicable plan approval(s) issued;
  - 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 for additional conditions.

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: **MAY 31 1995**

  
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Environmental Program Manager

cc: Harrisburg  
Mansfield  
File

**PERMIT CONDITIONS**

**PERMIT NO.: OP-08-0002**

**COMPANY: Tennessee Gas Pipeline Company**

3. This RACT operating permit incorporates Reasonably Available Control Technology (RACT) determinations as required by Title I provisions of the Clean Air Act Amendments and 25 PA Code Sections 129.91 through 129.95 for two Dresser-Clark DC-990 (4500 horsepower each) natural gas-fired turbines, one Waukesha F1197GU (228 horsepower) backup generator, one 1.68 million BTU/hour capacity boiler, three .075 million BTU/hour capacity shop heaters and one 0.046 million BTU/hour capacity water heater.
  
5. The NOx (nitrogen oxides, expressed as NO<sub>2</sub>) emissions from each Dresser-Clark DC-990 turbine shall not exceed 150 PPM (by volume at 15% oxygen on a dry basis).
6. The Department reserves the right to revise and make more stringent the emission limits established above (condition 5) based on actual emission rates.
7. The NOx emission limits for the turbines shall apply at all times except during periods of startup and shutdown provided, however, that the duration of startup and shutdown shall not exceed one hour per occurrence.
8. As per 25 PA Code Section 129.93(c) of the RACT regulations, the following sources shall be maintained and operated in accordance with manufacturers' specifications. The sources shall also be operated and maintained in accordance with good air pollution control practices.

<u>Source</u>	<u>Rating</u>	<u>Units</u>
Waukesha Backup Generator	228 horsepower	1
Boiler	1.68 million BTU/hour	1
Shop Heater	0.075 million BTU/hour	3
Water Heater	0.046 million BTU/hour	1

9. The company shall maintain records in accordance with the record keeping requirements of 25 PA Code Section 129.95.
10. Within one hundred and eighty (180) days after the issuance of this RACT operating permit, Tennessee Gas Pipeline Company shall perform a stack test on each of the two Dresser-Clark DC 990 natural gas-fired turbines in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department to show compliance with condition 5 of this operating permit.

## PERMIT CONDITIONS

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11. At least sixty (60) days prior to the performance of the testing required by condition 10 herein, a test plan shall be submitted to the Department for evaluation. This plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.
12. The Department shall be given at least 10 days advance notice of the scheduled dates for the performance of the testing required by condition 10 herein.
13. Within sixty (60) days of the completion of the test required by condition 10 herein, two copies of a test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in the performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.
14. The company shall additionally perform semi-annual tests on the turbines for NOx emissions using a Department approved portable analyzer. The first such semi-annual test shall occur no later than 6 months following the performance of the testing required by condition 10 herein. The Department may alter the frequency of portable analyzer tests based on the test results. The Department reserves the right to require stack tests in accordance with EPA reference methods should the data from the portable analyzer warrant.
16. Only pipeline quality natural gas shall be used as fuel in the subject turbines.

