

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF AIR QUALITY

PA-090 05

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(s) described below.

Permit No.:	<u>OP-59-0006</u>	Source &	<u>two Dresser Rand TCV-10</u>
Owner:	<u>CNG Transmission Corporation</u>	Air	<u>reciprocating engines and</u>
		Cleaning	<u>associated equipment, as</u>
Address:	<u>P. O. Box 2450</u>	Device:	<u>described herein</u>
	<u>Clarksburg, WV 26302-2450</u>		
Attn:	<u>Sean Sleigh, Engineer</u>	Location:	<u>Tioga Station</u>
	<u>Environmental Services</u>		<u>Farmington Township</u>
			<u>Tioga County</u>

PA-090 05  
FEB 24 1996  
EPA, REGION III

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 Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued: JUN 23 95

~~Expires: January 31, 2001~~

  
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Environmental Program Manager

cc: Harrisburg  
Mansfield  
File

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3. This 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 the following:
  - a) two 4200 horsepower Dresser Rand model TCV-10 natural gas-fired reciprocating engines
  - b) one 576 horsepower Waukesha natural gas-fired auxiliary generator
  - c) one Tulpro 24.2 million BTU/hour natural gas-fired heater
  - d) one Natco 4.7 million BTU/hour natural gas-fired heater
  - e) one Cleaver Brooks CB700-70 2.9 million BTU/hour natural gas-fired boiler
4. The expiration date shown in this operating permit is for state purposes. For Federal enforcement purposes the conditions of this operating permit which pertain to the implementation of the RACT regulations shall remain in effect as part of the State Implementation Plan (SIP) until replaced pursuant to 40 CFR 51 and approved by the U.S. Environmental Protection Agency (EPA). The operating permit shall become enforceable by the U.S. EPA upon its approval of the above as a revision to the SIP.
5. Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the two 4200 horsepower Dresser-Rand TCV-10 engines shall comply with the applicable nitrogen oxides pounds per hour emission limit specified in condition 21 herein.
6. Pursuant to the presumptive RACT provisions of Section 129.93(c) of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the Natco 4.7 million BTU/hour heater and the Cleaver Brooks CB700-70 2.9 million BTU/hour boiler shall be maintained and operated in accordance with manufacturers specifications and, additionally, in accordance with good air pollution control practices.
7. Pursuant to the presumptive RACT provisions of Section 129.93(c) of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the 576 horsepower Waukesha auxiliary generator shall be maintained and operated in accordance with good air pollution control practices. The generator shall also not be operated 500 or more hours in any consecutive 12 month period.

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8. Pursuant to the presumptive RACT provisions of Sections 129.93(b)(2), (3), (4) and (5) of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the company shall comply with the annual tune-up, maintenance, operating and recordkeeping requirements of these sections with respect to the Tulpro 24.2 million BTU/hour heater. The first annual tune-up shall be performed no later than 180 days following the issuance of this operating permit.
9. Within 180 days of the issuance of this operating permit, and additionally sometime during the interval beginning 2.5 years after the issuance of this operating permit and ending 4.5 years after said issuance, the company shall perform stack testing upon the two Dresser-Rand TCV-10 engines for nitrogen oxides (NOx, expressed as NO<sub>2</sub>), ~~nonmethane hydrocarbons~~ and volatile organic compounds using reference method test procedures acceptable to the Department. All testing is to be performed while the engines are operating at full load and full speed.
10. At least 60 days prior to the performance of any testing required by condition 9 herein, a pre-test plan shall be submitted to the Department for evaluation. This test plan shall contain the specific testing and analytical procedures to be used in performing the testing.
11. The Department shall be given at least 14 days advance notice of the specific dates and times for the performance of any testing required by condition 9 herein in order that Department personnel can arrange to be present. The Department is under no obligation to accept the results of any testing performed without adequate advance notice having been given to the Department.
12. Within 60 days of completion of any testing required by condition 9 herein, two copies of a test report shall be submitted to the Department. The report shall contain the results of the testing reported in pounds/hour, a description of the testing and analytical procedures actually used, all engine operating data collected during the tests, a copy of all raw data and a copy of the calculations generated during data analysis. The test report shall specifically identify the horsepower at which each engine was operating during each of the test runs or, alternately, shall provide an acceptable demonstration that the engines were operated at full load/full speed conditions during the testing.
13. In addition to the testing required by condition 9 herein, the company shall perform annual NOx tests upon each of the Dresser-Rand TCV-10 engines using a portable exhaust gas analyzer which has been approved by the Department. The first such testing shall occur no more than one year after the testing required by condition 9 herein. The reference method retesting required by condition 9 herein may be substituted for the portable analyzer testing required by this condition on a one-for-one basis (one occurrence of reference method testing may be substituted for one of the once-per-year occurrences of portable analyzer testing).

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14. The company shall submit specifications to the Department for the portable exhaust gas analyzer it proposes to use to comply with condition 13 herein by no later than 270 days after the initial testing required by condition 9 herein.
15. The results of all testing performed pursuant to condition 13 herein shall be submitted to the Department within 30 days of test performance.
16. In addition to the testing required by conditions 9 and 13 herein, the Department reserves the right to require such additional testing upon the respective engines, or any other source identified herein, as it may reasonably prescribe pursuant to the provisions of Section 4 of the Pennsylvania Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119 (1959), as amended, and as it may deem necessary to determine compliance with any condition contained herein.
17. The company shall maintain records in accordance with the recordkeeping requirements of 25 Pa. Code Section 129.95 which, at a minimum, shall include:
  - The number of hours per calendar year that each of the 2 Dresser Rand TCV-10 engines is operated.
  - The amount of fuel used per calendar year in each of the 2 Dresser Rand TCV-10 engines.
  - The information required for the Tulpro 24.2 million BTU/hour heater pursuant to Sections 129.93(b)(3) and (b)(4).
  - The number of hours per month the Waukesha auxiliary generator is operated.

All information recorded pursuant to this condition and/or Section 129.95 shall be retained for a minimum of two years and shall be made available to the Department upon request. The Department reserves the right to expand the list contained in this condition as it may reasonably prescribe pursuant to the provisions of Section 4 of the Pennsylvania Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119 (1959), as amended, and as it may deem necessary to determine compliance with any condition contained herein or any applicable requirement specified in Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection.

18. All fuel burning sources identified in condition 3 herein shall only be fired on pipeline quality natural gas.

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Conditions 19 through 24 pertain to the two Dresser Rand TCV-10 engines, the Tulpro 24.2 million BTU/hour heater, the Natco 4.7 million BTU/hour heater, the Cleaver Brooks CB700-70 2.9 million BTU/hour boiler and the 576 horsepower Waukesha auxiliary generator previously operated pursuant to operating permit 59-399-008A.

19. This operating permit supersedes all previously issued operating permits and temporary operating permits bearing the number 59-399-008A.
20. This operating permit also serves as a Prevention of Significant Deterioration (PSD) permit issued subsequent to the provisions of 40 CFR 52.21.
21. Pursuant to the best available technology provisions of Chapter 127 of the Rules and Regulations of the Department of Environmental Protection and the best available control technology provisions of the Prevention of Significant Deterioration regulations, 40 CFR 52.21, the air contaminant emissions from each of the two Dresser-Rand TCV-10 engines shall not exceed the following rates:

Nitrogen Oxides -----	27.76 pounds/hour
<del>Carbon monoxide -----</del>	<del>18.51 pounds/hour</del>
Non-methane hydrocarbons---	4.63 pounds/hour

The nitrogen oxide emissions from the Waukesha generator shall not exceed 8.89 pounds/hour, the ~~carbon monoxide emissions shall not exceed 35.53 pounds/hour~~ and the non-methane hydrocarbon emissions shall not exceed .39 pounds/hour. Additionally, the auxiliary generator shall not be operated 500 or more hours in any consecutive 12 month period.

The combined air contaminant emissions from the two Dresser-Rand TCV-10 engines, the Tulpro gas heater, the Natco gas heater, the boiler and the Waukesha generator shall not exceed the following rates:

Nitrogen Oxides -----	269.1 tons/year
<del>Carbon monoxide -----</del>	<del>171.1 tons/year</del>
Non-methane hydrocarbons---	40.7 tons/year

Additionally, the operation of either of the 2 Dresser-Rand TCV-10 engines or any of the other 4 pieces of equipment identified above shall not at any time result in the emission of any air contaminant in excess of the limitations specified in the applications and supplemental materials submitted for plan approval or in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection.

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22. The air/fuel ratio on each of the 2 Dresser-Rand TCV-10 engines shall be maintained at the ratio existing at the time the initial stack testing demonstrating compliance with the air contaminant emission rates specified in condition 21 above was performed (.515 for engine #1 and .50 for engine #2). Should the company fail to comply with this requirement, it will be required to install continuous nitrogen oxides ~~and carbon monoxide~~ emission monitoring systems on the engines.
23. If requested by the Department to do so, the company shall implement a program to monitor, record and report pertinent operating parameters for the Dresser Rand TCV-10 engines. In establishing, or approving the establishment of, a monitoring, recordkeeping and reporting program, the Department shall be bound by the provisions of the Pennsylvania Air Pollution Control Act, the Act of January 8,, 1960, P.L. 2119 (1959), as amended.

~~24. The Tulpro heater is subject to Subpart D of the Federal Standards of Performance for New Stationary Sources, 40 CFR 60.40e-60.48c. The company shall comply with all applicable requirements of this Subpart as well as any other applicable Subpart of the Standards of Performance, including any recordkeeping and reporting requirements. Pursuant to 40 CFR 60.4 of the Standards of Performance, the submission of all requests, reports, applications, submittals and other communications required by the Standards of Performance must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:~~

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

25. If at any time the permittee causes, permits or allows any modification (as that term is defined in Chapter 121 of Title 25, of the Rules and Regulations of the Department of Environmental Protection) of the aforementioned air contamination source(s), the operation and use of which is authorized by this permit, or causes, permits or allows any modifications, malfunction or removal of any air pollution control device required as a condition of this permit, then and in that event, this permit may be suspended, and the permittee shall not thereafter continue to operate or use said air contamination source(s).
26. The aforementioned source(s) may be operated and used only so long as any associated air pollution control devices are operated and maintained in accordance with the specifications set forth in the respective plan approval(s), and the application(s) submitted for said plan approval(s) (as approved by the Department), and in accordance with any conditions set forth.

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27. The operation of the air contamination sources identified in condition 3 herein shall not at any time result in the emission of air contaminants in excess of the limitations specified in any condition contained herein or specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection.

~~28. This operating permit is valid for a limited period of time and may be renewed before its expiration. Requests for an operating permit renewal must be in writing and must be accompanied by the appropriate permit application processing and annual permit administration fees as specified in Section 127.703 of the Rules and Regulations of the Department of Environmental Resources. These fees shall be paid in the form of a check payable to the "Commonwealth of Pennsylvania Clean Air Fund". The request should be made using the appropriate application form and must be received by the Department along with a completed Air Pollution Control Act Compliance Review form no later than January 1, 2001.~~

~~Additional annual operating permit administration fees may also be required pursuant to Section 127.703. If required, these fees are to be paid by no later than January 31, 1997; January 31, 1998; January 31, 1999 and January 31, 2000. The administration fee is to be submitted with an Annual Operating Permit Administration Fee Transmittal form.~~

~~All necessary forms can be obtained from the Department upon request.~~

29. The company shall immediately notify the Department of any malfunction of the source(s) or associated air cleaning device(s) which results in, or may possibly be resulting in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection or specified in any condition herein.

30. Any notification required as a result of any condition herein should be directed to: Steven Schulte, Air Quality Specialist, 105 Sherwood Street, Mansfield, PA 16933, telephone (717) 662-4066.

