

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
FIELD OPERATIONS - AIR QUALITY CONTROL

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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.

2-10-96

Permit No. OP-15-0022 Source(s) Natural Gas Compressor Engines  
Owner Columbia Gas Transmission Corporation Air Facility NOx/VOC RACT  
Address 1700 MacCorkle Avenue Cleaning \_\_\_\_\_  
SE Charleston, WV 25314 Device Pre-Combustion Chamber (PCC)  
Attention Mr. P. Michael Hoffman Location Eagle Compressor Station  
Environmental Engineer West Vincent Township  
Chester County

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s permit is subject to the following conditions:

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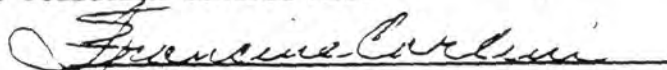
1. That the source(s) and any associated air cleaning devices are to be:
  - a. operated in such a manner as not to cause air pollution;
  - b. operated and maintained in a manner consistent with good operating and maintenance practices.
2. This permit is valid only for the specific equipment, location and owner named above.

EPA REGION III

(SEE THE ATTACHED 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 02/01/96  
Expires 02/01/2001

  
FRANCINE CARLINI  
Regional Manager  
Air Quality

cc: Central Office  
Southeast Regional Office

Conditions (continued):

3. This Operating Permit is the Department's determination of Reasonably Available Control Technology (RACT) for Nitrogen Oxides (NOx) control. This permit is issued for the following sources.
  - a. Three (3) 1300 hp 36 KVSRA Ingersoll - Rand engines each with pre-combustion chambers to reduce NOx emissions
  - b. One (1) 4000 hp TLAD-10 Ingersoll - Rand engine each with pre-combustion chambers to reduce NOx emissions
  - c. One (1) 251 hp auxiliary generator
  - d. One (1) 2 MM Btu/hr heating system boiler
  - e. Two (2) space heaters - 0.09 MMBTU  
hr total
  
4. The expiration date shown on the operating permit OP-15-0022 is for state purposes only. For Federal enforcement purposes the operating permit shall remain in the effect as part of the Pennsylvania State Implementation Plan (SIP) until repealed pursuant to 40 CFR 51 and approved by the United States Environmental Protection Agency (EPA). The Operating Permit shall become enforceable by the EPA upon its approval of the above as a revision to the SIP.
  
5. Compressor Engines
  - A. The operation of the following sources shall not emit air contaminants into the atmosphere in the excess of the limits listed below. clean burn conversion kit (pre-combustion chamber - PCC) on these four lean-burn compressor engines listed in 3a and b above is Reasonably Available Control Technology (RACT).

Units	Model No.	EMISSION			
		NOx		VOC	
		lbs/hr	tons/yr	lbs/hr	tons/yr
1300 hp Ingersoll-Rand	36 KVSRA	8.6	37.66	4.29	18.83
1300 hp Ingersoll-Rand	36 KVSRA	8.6	37.66	4.29	18.83
1300 hp Ingersoll-Rand	36 KVSRA	8.6	37.66	4.29	18.83
4000 hp Ingersoll-Rand	TLAD-10	22.05	96.56	6.17	27.04

Operating Permit Conditions  
Permit No. CP-15-0022  
Columbia Gas Transmission Corporation

Conditions (continued):

- B. The company shall use only natural gas as a fuel, and upon Department request, provide fuel analyses or fuel samples of the fuel used on engines.

6. Testing Requirements

- A. Within one hundred eighty (180) days after the issuance of this RACT operating permit, Columbia Gas Transmission Corporation must perform a stack test on all IC engines in accordance with the provisions of Chapter 139 of the rules and regulations of the Department compliance with condition No. 5.A.
- B. The NOx emission limit applied at all times except during periods of start up and shut down provided however that the duration of start up and shut down shall not exceed 1 hour per occurrence.
- C. At least thirty (30) days prior to the test, the Regional Air Pollution Control Engineer shall be informed of the date and time of the test.
- D. The company shall perform semi-annual tests for NOx emissions using a Department approved portable analyzer. The Department may alter the frequency of portable analyzer test based on the test results. The Department reserves the right to require stack test in accordance with EPA reference method.
- E. At least sixty (60) days prior to the test, the company shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.
- F. Within thirty (30) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Pollution Control Engineer for approval.

7. Recordkeeping and Reporting Requirements

- A. Company shall maintain records in accordance with the recordkeeping requirement of 25 PA Code §129.95.
- B. Company shall maintain records of portable analyzer test results.

8. Presumptive Sources

A. Source Description:

- (1) one (1) 251 hp (auxiliary generator) natural gas fired that for emergency use

Conditions (continued):

- (3) Two (2) space heaters - 0.09 MMBtu total.  
hr

B. Operating Requirements:

- (1) The above mentioned sources (5) shall be maintained and operated in accordance with manufacturer specifications.
- (2) The above mentioned sources (5) shall be fired on natural gas only.
- (3) The auxiliary generator shall be operated less than 500 hours in a consecutive twelve month period individually.

C. Recordkeeping Requirements:

- (1) Annual reports on fuel consumption of the above mentioned sources (5A) and hours of operating for the individual sources.
- (2) The time and date of any manufacturer prescribed maintenance.
- (3) Records required under this operating permit shall be kept for a period of two years and shall be made available to the Department upon its request.

~~9. This Operating permit applies to the emissions of NOx and VOC pollutants only. Emissions of other pollutants, including criteria pollutants, shall be governed by existing plan approval, operating permit, and the applicable requirements of the Rules and Regulations of the Department such approval, permits and requirements are incorporated herein by reference and made part of this permit. All conditions from operating permit No. 15-399-016 shall be incorporated to this permit.~~

~~10. General Requirements~~

~~A. The company shall not impose conditions upon or otherwise restrict the Department's access to the aforementioned source(s) and/or any associated air cleaning device(s) and shall allow the Department to have access at any time to said source(s) and associated air cleaning device(s) with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act.~~

~~B. If at any time the Department has cause to believe that air contaminant emissions from the aforementioned source(s) may be 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, the company~~

Operating Permit Conditions  
Permit No. OP-15-0022  
Columbia Gas Transmission Corporation

Conditions (continued):

~~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, the company shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s). Such testing shall be conducted in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required.~~

~~→ The company, within one hour of occurrence, shall notify the Department, at (610) 832-6242, 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. A written report shall be submitted to the Department within two working days following the incident describing the malfunctions and corrective actions taken.~~

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