

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

OCT - 4

RACT PLAN APPROVAL

Permit No.:	30-000-106	Source	:Natural Gas Compressor
Owner	:Carnegie Natural Gas Company	Air	:OEM Retrofit
Address	:800 Regis Avenue Pittsburgh, PA 15236	Cleaning:	
Attention	:Jones, Dale Environmental Engineer	Devices	:
		Plant	:Waynesburg Station
		Location:	Franklin Township
		County	:Greene


In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and with Chapter 127 of the Rules and Regulations of the Department of Environmental Resources, the Department on September 22, 1995 approved plans for the above indicated air contamination source(s).

The plan approval is subject to the following conditions:

1. The air cleaning device is to be installed in accordance with the plans submitted with the application (as approved herein).
2. Upon completion of the construction of the above indicated air cleaning device a operating permit must be obtained from the person noted below.
3. See attached.

Notify the person noted below when the installation is completed so that the source can be inspected for issuance of an OPERATING PERMIT.

NOTE: Francis D. Condrick  
Engineering Services  
(412) 442-5227

  
Joseph P. Pezze  
Regional Air Quality Manager  
Southwest Region

Carnegie Natural Gas Company  
RACT Plan Approval #30-000-106

Special Conditions

3. This RACT Plan Approval is for the installation of OEM (lean combustion retrofit modifications) on the two Cooper GMVH-8C's engines at the Carnegie Natural Gas/Waynesburg compressor station located in Franklin Township, Greene County.
4. The applicant shall perform stack testing by a qualified testing firm on both Cooper GMVH-8c engines within 60 days after completing the Original Equipment Manufacturer retrofit. This will be performed in 1995 and every five years thereafter to determine the emission rates of nitrogen oxides (NOx), and volatile organic compounds (VOC). Testing shall be conducted while engines are operating at full load and full speed during the ozone season (April to October).
5. Carnegie Natural Gas Company shall stack test semi-annually each engine at the Waynesburg Station by using portable analyzers. Carnegie Natural Gas Company shall submit a complete operating procedure for the portable analyzer, including calibration, QA/QC, and emissions calculation methods. Results from semi-annual stack tests conducted with portable analyzers shall be retained on site, and be made available to the Department upon request.
6. Stack testing shall be performed in accordance with 25 PA. Code Chapter 139 regulations and the Department's source testing manual.
7. Two copies of a pre-test protocol shall be submitted to the Department for review at least 60 days prior to the performance of the stack test.
8. The Department shall be notified at least two weeks prior to the stack test of the date and time of the test so that an observer may be present.
8. Two copies of the stack test results shall be supplied to the Department for review within 60 days of completion of testing.
9. The company shall maintain records in accordance with the minimum recordkeeping requirements of 25 PA Code Section 129.95.
  - (1) The records shall provide sufficient data to clearly demonstrate of PA Code Sections 129.91 - .94 are met.
  - (2) Records shall be retained for at least two years and shall be made available to the Department on request.

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Special Conditions

11. The combined allowable emission rates of the two natural gas fueled engines at the Waynesburg Station shall not exceed 75 tons of NOx per year and 50 tpy of VOC's. Allowable emission limitations are presented in Table II and III for Lbs./hr. of NOx and VOC's respectively.
  
13. Reductions in the allowable emission rates below the levels established herein shall not be available as ERCs (Emission Reduction Credits) pursuant to 25 PA Code 127.206 unless the reductions are achieved through real reductions of actual or allowable emissions, whichever is lower, through the installation of controls beyond those required by RACT or any other subsequent regulatory requirement.
  
14. This Plan Approval does not waive, either expressly or by implication, the power or authority of the Commonwealth of Pennsylvania to prosecute for any and all violations of law arising prior to or after the issuance of this Plan Approval. The issuance of this Plan Approval shall not be construed so as to waive or impair any rights of the Department of Environmental Resources, heretofore to hereafter existing.

Internal Combustion Engine Emissions - 1993

Unit	Net Rat.	Fuel	g/bhp	NOx lb/hr	/ tons/yr	VOC lb/hr	tons/yr
oper GMVH-8C	1800 BHP	Natural Gas	6.0	23.7	104	16.0	69.5
Cooper GMVH-8C	1800 BHP	Natural Gas	6.0	23.7	104	16.0	69.5

Total Emissions: 208 TPY NOx  
139 TPY VOC

TABLE II

Lbs./Hr. NOx Emission Limitations

Unit	NOx 1995 lbs./hr
Cooper GMVH-8C	8.0
Cooper GMVH-8C	8.0

TABLE III

Lbs./Hr. VOC Emission Limitations

Unit	1995 lbs./hr.
Cooper GMVH-8C	5.5
Cooper GMVH-8C	5.5