

DEPARTMENT OF ENVIRONMENTAL RESOURCES  
FIELD OPERATIONS - AIR QUALITY CONTROL

PLAN APPROVAL

Application No. PA-15-0017 Source(s) 13 Internal Combustion Engines  
Owner Transcontinental Gas Pipeline Corp. Air \_\_\_\_\_  
Address Station 200 Cleaning Low Emission Combustion (LEC)  
Erazer, PA 19355 Device Technology  
Attention Mr. William H. Harmons Location Station 200  
Mgr., Air & Toxics Env. Engineering East Whiteland Township  
Chester County

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 June 05, 1995 approved plans for the installation of air cleaning devices on the above indicated air contamination source(s).

This PLAN APPROVAL expires 03/31/97.

The plan approved is subject to the following conditions:

1. The low emission combustion (LEC) system to be installed in accordance with the plans submitted with the application (as approved herein).

(SEE THE ATTACHED ADDITIONAL CONDITIONS)

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

NOTE:

Field Operations - Air Quality Control  
Lee Park, Suite 6010  
555 North Lane  
Conshohocken, PA 19428  
(610) 832-6242

  
\_\_\_\_\_  
JOSEPH A. FEOLA  
Air Pollution Control Manager

cc: Division of Permits, MSSOB  
Assistant Director  
~~Southeast Regional Office~~

Conditions (continued):

- This Plan Approval is issued to Transcontinental Gas Pipeline Corporation (TGPL) for the installation of Low Emission Combustion (LEC) Technology to control nitrogen oxides emissions (NOx). The thirteen (13) internal combustion (IC) reciprocating engines are described below

Source Description

Engine No.	Manufacturer	Model After RACT Implementation	Horsepower after RACT
1 - 6	Clark	BA-8T	2050
7 - 9, 13	Clark	TLA-6	2100
10 - 11	Clark	TCV-10	3400
12	Clark	TCV-16	5500

- Parametric modifications of timing and air manifold pressure for 13 engines shall also be completed by May 31, 1995.
- This Plan Approval does not restrict the hours of operation of IC reciprocating engines.
- The operation of these thirteen (13) IC engines shall not emit air contaminants into the atmosphere in the excess of the limit listed below, however, the Department reserves the right to establish and impose more stringent limitations based on subsequent stack test results.

Unit	NOx emission (lb/hr)	VOC emission (lb/hr)
1 - 6 (BA-8T)	18.1	9.0
7 - 9, 13 (TLA-6)	18.54	9.2
10-11 (TCV-10)	30.0	14.9
12 (TCV-16)	48.56	24.1

- Testing shall be done in accordance with the provision of Chapter 139 and condition 11 through 14 below.
- The NOx emission limit applies 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.

Conditions (continued):

8. At least thirty (30) days prior to the test, the Regional Air Pollution Control Manager shall be informed of the date and time of the test.
9. The company shall perform annual tests for NO<sub>x</sub> emissions using a Department approved portable analyzer. The Department may alter the frequency of portable analyzer tests based on the test results. The Department reserves the right to require stack test in accordance with EPA reference method.
10. 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.
11. 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 Manager for approval.
12. TGPL shall maintain comprehensive records associated with operating hours, fuel consumption, NO<sub>x</sub> emissions, and monitored engine parameters (i.e. ignition timing and air manifold pressure).

