

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

RACT OPERATING PERMIT

In accordance with provisions of the Air Pollution Control 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 described below.

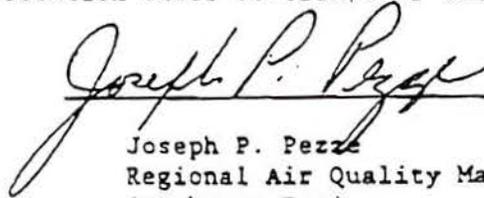
Permit No.:	65-000-839	Source:	Internal Combustion Engines
Owner:	Texas Eastern Transmission Corporation	Air:	
Address:	Box 1642 Houston, TX 77251	Cleaning:	
Attention:	Charles E. Wait Supervising Engineer	Devices:	
		Plant:	Delmont Station
		Location:	Salem Township
		County:	Westmoreland

This permit is subject to the following conditions:

- (1) That the source 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 management practices.
- (2) This permit valid only for the specific equipment, location and owner named above.
- (3) See attached.

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.

Effective on: 1/9/97



Joseph P. Pezza
Regional Air Quality Manager
Southwest Region

~~Permit Term: 7/31/96 - 7/31/01~~

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Gas Eastern Transmission Corporation
Operating Permit: 65-000-839

Special Conditions

3. This RACT Operating Permit approves the RACT proposal of Texas Eastern Gas Transmission Corporation for the Delmont Station at Salem Township, Westmoreland County.
4. This RACT Operating Permit is for the installation of screw-in precombustion chambers on the four (4) Ingersoll-Rand KVS 412 engines, non-selective catalytic reduction (NSCR) on the six (6) Ingersoll Rand KVG 410 engines, and the implementation of presumptive RACT on one (1) Leroi L 3460 engine, one (1) Caterpillar AR emergency generator, one Caterpillar 3412 emergency generator and five (5) heaters by Texas Eastern Gas Transmission Corporation at their Delmont Station in Salem Township, Westmoreland County.
5. The company shall not operate the Leroi L 3460 auxiliary generator, the Caterpillar AR emergency generator, or the Caterpillar 3412 emergency generator more than 500 hours annually per engine.

The emission rates of the GE MS 5001 turbine shall be limited as follows:

Emission	Annual Emissions (tpy)	ppmvd
NOx @ 15% O2	440	230
NM VOC	1	25

7. The emission rates of the Pratt Whitney CG3 turbine shall be limited as follows:

Emission	Annual Emissions (tpy)	ppmvd
NOx @ 15% O2	160	160
NM VOC	1	50

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Special Conditions

8. The emission rates of each Ingersoll Rand KVG 410 engine shall be limited as follows:

<u>Emission</u>	<u>Annual Emissions (tpy)</u>	<u>lb/hr</u>
NOx	22	5
NM VOC	1.3	0.5

9. The emission rates of each Ingersoll Rand KVS 412 engine shall be limited as follows:

<u>Emission</u>	<u>Annual Emissions (tpy)</u>	<u>lb/hr</u>
NOx	78	18
NM VOC	12	3

10. The Department may revise the emission limits established above based on actual emission rates.
11. The plant shall only use low ash lubricating oil (0.5% or less) in the Ingersoll Rand KVG-410 engines.
12. The plant shall continuously monitor and record temperature rise and pressure differential across the catalyst of the Ingersoll Rand KVG-410 engines.
13. The catalytic converter of the Ingersoll Rand KVG-410 engines shall be equipped with a high temperature alarm and/or shutdown set at 1350 degrees Fahrenheit or less.
14. The catalyst of the Ingersoll Rand KVG-410 engines shall be physically inspected annually for physical damage and fouling. A log shall be kept detailing all actions taken to maintain catalyst performance. This file shall be maintained for a period of not less than two years and be made available to the Department upon request.
15. The plant shall continuously monitor and record O₂ levels prior to the catalyst on each Ingersoll Rand KVG-410 engine.
16. The plant shall maintain O₂ levels below 0.5% on each Ingersoll Rand KVG-410 engine.

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Special Conditions

17. A minimum of one (1) stack test in accordance with 25 PA Code Ch139 and the Department Source Testing Manual shall be performed on all sources during the 5 year Operating Permit to verify the emission rates for NOx (as NO2), CO, and NMVOC. Testing shall be conducted while engines are operating at full load and full speed during the ozone season (April to October).
18. All sources operating 750 hours or more during the preceding ozone season shall be stack tested semi-annually to verify the rates of NOx (as NO2), CO, and NMVOC through either an EPA Method stack test or through the use of portable analyzers.
19. All sources operating less than 750 hours during the preceding ozone season shall be stack tested annually to verify the rates of NOx (as NO2), CO, and NMVOC through either an EPA Method stack test or through the use of portable analyzers.
20. For those test utilizing portable analyzers, the company shall submit a complete operating procedure including calibration, QA/QC, and emissions calculation methods to the Department at least 60 days prior to the stack test specified in Condition 12, above. The accuracy of the portable analyzer readings shall be verified by operation and recording of readings during the EPA method stack testing of Condition 12. Results from stack tests using portable analyzers shall be retained by the company at the test location and provided annually with the emission statements and at other times as requested by the Department.
21. The company shall submit a pretest protocol for review at least 60 days prior to performance of the stack tests.
22. The company shall also notify the Department at least two weeks prior to the stack tests so an observer may be present at the time of the tests.
23. The company shall submit a stack test report to the Department within 60 days of testing.
24. Reductions in the allowable emission rates below the levels established herein shall not be available as Emission Reduction Credits (ERCs) pursuant to 25 PA Code Section 127.206 unless the reductions are achieved through real reductions of actual or allowable emissions, whichever is lower, and unless the reductions are achieved through the installation of controls beyond those required by RACT or any other subsequent regulatory requirement.

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Special Conditions

25. The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95. At a minimum, the following records shall be kept for a source: operating hours, daily fuel consumption, operating pressures, and operating temperatures. These records shall be maintained on a file for not less than two years and shall be made available to the Department upon request.
26. This Operating Permit is valid for a limited time only and may be renewed pursuant to 25 PA Code Section 127.446 before its expiration. An application for an operating permit renewal shall be submitted at least 6 and not more than 18 months before expiration of the existing permit. The application must be complete and accompanied by the permit fees required by Subchapter I of 25 PA Code Chapter 127. The source may not be operated without a valid operating permit. Operation of the source without an appropriate permit from the Department may subject the company to enforcement action.

