

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHCENTRAL REGION - FIELD OPERATIONS
AIR QUALITY PROGRAM

TSS

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 described below.

Permit No: 50-02001 Source & Air
Cleaning Device: Shermans Dale Compressor Station
Owner: Texas Eastern Transmission Corporation (See Attached)
Address: PO Box 1642
Houston, TX 77251
Attention: Mr. David A. Felcman Location: Carroll Township, Perry County
Supervising Engineer
Environmental Compliance

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. in compliance with the specifications and conditions of the applicable plan approval 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.
- 3.
- 4.

Issued: APR 12 1999

[Signature]
Program Manager

Southcentral Region 50-02001
Perry District
Permits

PERMIT NO. 50-2001

TEXAS EASTERN TRANSMISSION CORPORATIONSHERMANS DALE COMPRESSOR STATIONSources, Continued

The Shermans Dale Compressor Station consists of the following sources:

<u>Source</u>	<u>Company I.D.</u>	<u>Manufacturer/Model</u>	<u>Control Device</u>
22,000 HP Gas Turbine	31801	General Electric/Frame 5 MS 5001 NTMD	None
19,800 HP Gas Turbine	31802	General Electric/Frame 5 MS 5001 LAMD	None
445 HP IC Engine	31835	Leroi/L 3460	None

Conditions, Continued

4. This operating permit is for the incorporation of the Department's NO_x Reasonably Available Control Technology (RACT) requirements (25 Pa. Code, §§129.91 through 129.95) for the Shermans Dale Compressor Station.

6. The General Electric Frame 5 MS 5001 NTMD (31801) and LAMD (31802) gas turbines are subject to an NO_x emission standard of 90 ppmdv corrected to 15% O₂ when operating at normal conditions. Normal operating conditions are defined as +/-10% of the nameplate horsepower rating of the turbine.

7. The emission limit listed in Condition 6 does not apply during the startup and shutdown of the gas turbine. Startup and shutdown periods are limited to a maximum of one hour each.

8. The Department reserves the right to revise the emission standard listed in Condition 6 based on actual emission data obtained during the testing program outlined in Conditions 10 through 13.

9. The Leroi L 3460 emergency standby engine shall be operated less than 500 hours during any consecutive 12-month period [25 Pa. Code, §129.93(c)(5)].

PERMIT NO. 50-2001

TEXAS EASTERN TRANSMISSION CORPORATIONSHERMANS DALE COMPRESSOR STATIONConditions, Continued

10. Verification of the NO_x emission standard listed in Condition 6 shall be conducted semi-annually utilizing methodology outlined in 25 Pa. Code, Chapter 139 and the Department's Source Testing Manual or by other means approved by the Department. Based on the monthly records of fuel usage and operating hours, the Department reserves the right to decrease the verification frequency to an annual basis.
11. At least 60 days prior to the initial testing program, two copies of a test procedure shall be submitted to the Program Manager.
12. At least two weeks prior to the test program, the Program Manager shall be informed of the date and time of the tests.
13. Within 60 days after completion of the test programs, two copies of the test reports, including all operating conditions, shall be submitted to the Program Manager. Test results shall be reported as follows:
 - a. ppm_dv
 - b. ppm_dv corrected to 15% O_2
 - c. lb/hr
 - d. lb/mm Btu of heat input
14. Records shall be maintained in accordance with 25 Pa. Code, §129.95 requirements.
15. An annual report containing monthly records of fuel usage and operating hours for the sources listed in this operating permit shall be submitted to the Harrisburg District Supervisor.

