

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

PLAN APPROVAL

APR 28 1995

Approval No: <u>05-2006</u>	Source & Air Cleaning Device: <u>Two Gas Engines Clark TLA-6</u>
Owner: <u>Columbia Gas Transmission Corporation</u>	<u>High Energy Ignition Retrofit</u>
Address: <u>P.O. Box 1273</u>	<u>with Turbocharger Upgrade</u>
<u>Charleston, WV 25325-1273</u>	<u>(ENOX Technologies, Inc.)</u>
Attention: <u>Mr. Robert W. Welch, Jr.</u>	Location: <u>Rte. 1, Box 25, Artemas, PA 17211</u>
<u>Vice President, Environmental Affairs</u>	<u>Mann Township</u> <u>Bedford County</u>

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 APR 19 1995 approved plans for installation of air cleaning device at the above indicated air contamination source.

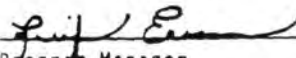
~~This PLAN APPROVAL expires May 31, 1995.~~

The plan approved is subject to the following conditions:

1. The installation of above air cleaning device is to be completed in accordance with the plans submitted with the application (as herein approved).
2. 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: - Mr. Ranjan Roy
Air Pollution Control Engineer
One Ararat Boulevard
Harrisburg, PA 17110
(717) 657-4587


Program Manager

Southcentral Region 05-2006
Altoona Office
Permits

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2. This plan approval constitutes a RACT determination as per 25 Pa. Code, Section 129.91 and 129.92 for the following sources and operations at the Artemas Gas Compressor Station:

- a. Unit #1 - Clark TLA-6 Engine, Gas Fired (2,480 hp)
- b. Unit #2 - Clark TLA-6 Engine, Gas Fired (2,480 hp)
- c. Unit #3 - Solar Saturn Turbine, Gas Fired (1,160 hp)
- d. Unit #4 - Solar Saturn Turbine, Gas Fired (1,160 hp)
- e. Unit #5 - Solar Saturn Turbine, Gas Fired (1,350 hp)
- f. Other sources:

- 1. Auxiliary Generator (250 hp)
- 2. Storage Heater (11.0 mmbtu/hr)
- 3. Storage Heater (6.0 mmbtu/hr)
- 4. Three Flare Units (2.9 mmbtu/hr each)

3. Columbia Gas shall implement the RACT Plan according to the schedule in the proposal.

4. This Plan Approval authorizes temporary operation of the source(s) covered by this Plan Approval provided the following conditions are met:

- The Department must receive written notice from Columbia Gas Transmission Corporation of the completion of construction and Columbia Gas Transmission Corporation's intent to commence operation at least five (5) working days prior to the completion of construction. The notice must state when construction will be completed and when Columbia Gas Transmission Corporation expects to commence operation.
- Operation is authorized only to facilitate the start-up and shake-down of sources and air cleaning devices to permit operations pending the issuance of an Operating Permit or to permit the evaluation of the source(s) for compliance with all applicable regulations and requirements.
- This condition authorizes temporary operation of the source(s) for a period of 180 days from the date of commencement of operation, provided the Department receives notice from Columbia Gas Transmission Corporation pursuant to subpart a., above.
- Columbia Gas Transmission Corporation may request an extension if compliance with all applicable regulations and Plan Approval requirements has not been established. The extension request shall be submitted in writing at least 15 days prior to the end of this period of temporary operation and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established.

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- ~~The notice submitted by Columbia Gas Transmission Corporation pursuant to subpart a., above, prior to the expiration of this Plan Approval, shall modify the plan approval expiration date. The new plan approval expiration date shall be 180 days from the date of the written notice.~~
5. The NO_x emissions from the sources listed in Condition 2(a) through (e) shall not exceed the following limits:
 - a. Units #1 and #2 - 16.5 lb/hr
 - b. Units #3 and #4 - 110 ppmvd corrected to 15% oxygen
 - c. Unit #5 - 150 ppmvd corrected to 15% oxygen
 6. The emission factors listed in the Condition 5 shall not be applied to Units #1 through #4 during the engine start and stop subject to maximum of 1 hour for each start and 1 hour for each stop.
 7. Stack testing to determine the emission rate of NO_x as NO₂, CO, and NMVOC shall be performed on the sources listed in Conditions 2(a) and (b) within 180 days of commencement of operation after controls are installed.
 8. Stack testing shall be performed in accordance with 25 Pa. Code, Section 139 and the current version of the Department Source Testing Manual.
 9. Proposed Stack Test Protocol is to be submitted to the Program Manager for approval at least sixty (60) days prior to stack test.
 10. The Department shall be notified at least two (2) weeks in advance of the date and time of the stack test so that an observer may be present.
 11. Two copies of the stack test results shall be submitted to the Program Manager for review within sixty (60) days of completion of testing. The emissions shall be reported in the following units:
 - a. Concentration as measured - parts per million (ppm).
 - b. Specific output - g/hp-hr.
 - c. Total output, mass rate - lb/hr.
 - d. Total output, heat rate - lb/mmbtu.
 12. Upon issuance of the operating permit, verification of the NO_x emission standard listed in the Condition 5 shall be conducted annually utilizing methodology outlined 25 Pa. Code, Section 139 and the Department's Source Testing Manual or by other means approved by the Department.

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~~13. The Department reserves the right to revise the emission standard listed in Condition 6, based on information obtained during the testing program outlined in Condition 7 thru 11.~~

14. Columbia Gas Transmission Corporation will report to the Program Manager any modification to the sources listed in the application, which is expected to increase NO_x and VOC emission from source/facility.

15. Sources listed in the Condition 2 (c) through (f) are subject to PRESUMPTIVE RACT as per the 25 Pa. Code, Section 129.93(c)(1).

16. The facility shall maintain monthly records of fuel usage in the engines and turbines listed in the Condition 2 (a) through (e).

17. The facility shall keep a record of any maintenance and repairs to the sources.

18. The records listed in the Conditions 16 and 17 shall be available to the Department upon request.