

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

COPY

PLAN APPROVAL

Approval No: <u>67-2009</u>	Source & Air Cleaning Device: <u>Combined Cycle Gas Turbine</u>
Owner: <u>Solar Turbines, Inc.</u>	<u>Cogeneration Plant</u>
Address: <u>P.O. Box 85376</u>	<u>(See Attached)</u>
<u>San Diego, CA 92138-5376</u>	
Attention: <u>Mr. William P. Fallon</u>	Location: <u>Caterpillar York Cogen Plant</u>
<u>Manager, York Project</u>	<u>Springettsbury Township</u>
	<u>York 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 AUG 17 1995 approved plans for implementation of the oxides of nitrogen (NO_x) Reasonably Available Control Technology (RACT) plan for the above indicated facility.


This PLAN APPROVAL expires December 31, 1997.

The plan approved is subject to the following conditions:

1. The NO_x RACT technical control methods for the above facility are to be implemented 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: Ms. Michelle Rudisill
Air Pollution Control Engineer
One Ararat Boulevard
Harrisburg, PA 17110
(717) 657-4587


Program Manager

Southcentral Region 67-2009 ✓
EPA, Region III
York District
Permits

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SOLAR TURBINES, INC.Sources, Continued

<u>Source</u>	<u>Manufacturer</u>
1. Six Gas Turbines	Solar
Controlled by Dry Low NO _x Combustors (each)	Solar
2. Six Heat Recovery Steam Generators	Solar
Each equipped with a Coen Duct Burner	Coen
3. Two Diesel Internal Combustion Engines	Caterpillar

Conditions, Continued

2. This Plan Approval authorizes temporary operation of the source(s) covered by this Plan Approval provided the following conditions are met:
 - a. The Department must receive written notice from Solar Turbines, Inc. of the completion of modification and Solar Turbines, Inc.'s intent to commence operation at least five (5) working days prior to the completion of modification. The notice must state when modification will be completed and when Solar Turbines, Inc. expects to commence operation.
 - b. 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.
 - c. 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 Solar Turbines, Inc. pursuant to subpart a., above.
 - d. Solar Turbines, Inc. 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.
 - e. The notice submitted by Solar Turbines, Inc. 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.
3. The company shall modify the existing gas turbines as per RACT proposal by December 31, 1997. This final compliance date is contingent upon the execution and approval of a Consent Decree or an operating permit compliance document between Solar Turbines, Inc. and the Department.
4. The modifications of the NO_x sources are to be completed in accordance with the plans and specifications submitted with the application.

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SOLAR TURBINES, INC.

Conditions, Continued

5. If the company determines an alternative method of NO_x control is necessary for the two dual fuel combustion turbines the company shall submit, to the Department, a NO_x Control Method plan by December 31, 1996.
6. The two diesel internal combustion engines must maintain an annual capacity factor of less than 5%. The two diesel internal combustion engines and the six heat recovery steam generators operating with individual rated gross heat inputs less than 20 MMBTU/hr, shall be maintained and operated in accordance with the manufacturers specifications and good air pollution control practices.
7. The NO_x emissions from the six turbines shall not exceed an average level of 42 ppmvd corrected to 15 percent O₂, at full load when firing natural gas. Compliance with this limitation shall be demonstrated through stack testing.
8. Thirty (30) days prior to completion of modification, a test procedure and a sketch with dimensions including the location of sampling ports and other data to ensure the collection of representative samples shall be submitted to the Regional Air Quality Program Manager for approval.
9. Within sixty (60) days from the completion of modification the owner or operator shall conduct a performance test as per Chapter 139 of the Department and PA Source Testing Manual.
10. At least fifteen (15) days prior to the test, the Regional Air Quality Program Manager shall be informed of the date and time of the test.
11. Within forty-five (45) days after the source test, two copies of the completed test reports shall be submitted to the Regional Air Quality Program Manager.
12. The NO_x emissions from each turbine shall never exceed the emission rate required by Subpart GG of the U.S. EPA's Standards of Performance for New Stationary Sources.
13. The owner or operator of the turbines shall meet the monitoring and reporting requirements referenced in §60.334 of Subpart GG of the U.S. EPA's Standards of Performance for New Stationary Sources.
14. The company shall maintain records of fuel usage and operating hours. Records shall be maintained for each calendar year (January 1 through December 31). These records shall be retained for at least two years and be made available to the Department on request.
15. This plan approval constitutes a RACT determination as per 25 Pa. Code, Sections 129.91 and 129.92 for the specified sources.
16. The company shall implement the RACT plan by December 31, 1997. This final compliance date is required by the Compliance Permit No. CP-67-2009 between Solar Turbines, Inc. and the Department.

