



## MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue Victorville, CA 92392-2310  
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

**INACTIVE**

B001080

Inactive type Permit has no description information.

**EXPIRES LAST DAY OF: APRIL 2015**

### **OWNER OF OPERATOR (Co.#2830)**

Trogon Development, LLC  
37000 Santa Fe Street  
Daggett, CA 92327

### **EQUIPMENT LOCATION (Fac.#1880)**

Coolwater Generating Station  
37000 Santa Fe Street  
Daggett, CA 92327

#### **Description:**

COMBUSTION TURBINE GENERATOR (UNIT NO. 32) consisting of: One Westinghouse Electric Corp., model 501B Combustion Turbine (CT), dual fuel (natural gas or liquid) fired, commissioned in 1978. The CT is fired by 16 dual fuel burners and has a nominal rating of 73 MW(e) net (summer base load rating, actual CT output will increase as ambient temperature decreases or if CT is fired in peak mode). One Westinghouse Electric Corp., Heat Recovery Steam Generator (HRSG) with forced circulation, supplementally fired with natural gas or liquid-fired duct burners. The combined fuel usage for the CT and fired HRSG is a nominal 1220 MMBTUH/hr with the CT at its nominal load of 73 MW(e) net, but will vary as the unit load varies with ambient conditions. Total: 1220.0 MBTU/H

#### **CONDITIONS:**

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This turbine shall not exceed the following emission limits, except the limit for NO<sub>x</sub> during periods of startup and shutdown, verified by CEMS and/or compliance tests and records:
  - a. Hourly NO<sub>x</sub>, corrected to 15% oxygen - 42 ppmvd (65 ppmvd on liquid fuel)
  - b. Hourly CO - 2000 ppmvd
  - c. Particulate Matter - 11 pounds per hour, and 0.003 grains/dscf (corrected to 15% oxygen)
3. Water injection shall be employed at all CT loads in excess of 20 MW(e) net, sufficient to meet the NO<sub>x</sub> emission limits specified above.
4. This facility shall not emit more than 1,319 tons of NO<sub>x</sub> per calendar year, verified by CEMS data.

Fee Schedule: 2 (f)      Rating: 1220000000Btu      SIC: 4911      SCC: 20100201      Location/UTM(Km): 513E/3861N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

Trogon Development, LLC  
P.O. Box 1605  
Canovanas, PR 00729

By: **COPY**  
**Brad Poiriez**  
Air Pollution Control Officer

5. Emissions of NO<sub>x</sub> and oxygen shall be monitored using a Continuous Emissions Monitoring System (CEMS). Turbine load, fuel and water injection rates shall be continuously monitored and recorded every 15 minutes. This monitoring equipment shall be installed, maintained, calibrated and operated in accordance with manufacturer's specifications, 40 CFR 60 and 75, Rule 218 and Rule 1158 (as applicable).

6. The owner/operator (o/o) shall install and maintain a volumetric flow rate meter in the liquid fuel line and gaseous fuel line (in conjunction with temperature and pressure probes in the gaseous line), or maintain a fuel log in the form and manner approved and prescribed by the District.

7. Blade path temperature maintenance tests may be conducted once per month for a period not to exceed two hours without water injection. The District shall be notified by telephone prior to the start and at the completion of each test.

8. The o/o shall demonstrate that this equipment complies with the particulate matter limits (Rule 475) through emission compliance testing as follows:

- a. Not less than once every 12 months, unless the equipment is fired exclusively on natural gas
- b. No less than once every 60 months for equipment fired exclusively on natural gas
- c. If diesel/distillate fuel is used within the 60-month period, compliance shall be demonstrated for firing natural gas and firing diesel/distillate fuel not less than once every 12 months.

9. This equipment shall be fired with pipeline quality natural gas with a sulfur content of no more than 800 ppm calculated as hydrogen sulfide at standard conditions, or liquid fuel having a sulfur content of no more than 0.5 percent by weight. Compliance with this condition shall be verified with fuel supplier sulfur content certifications. The sulfur content of liquid fuel shall be determined by use of ASTM method D 2622-82 or ASTM method D 2880-71 or equivalent.

10. The o/o shall conduct all required compliance/certification tests in accordance with a District-approved test plan and the MDAQMD Compliance Test Procedural Manual. Thirty (30) days prior to the compliance/certification tests the o/o shall provide a written test plan for District review and approval. Written notice of the compliance/certification test shall be provided to the District ten (10) days prior to the tests so that an observer may be present. A written report with the results of such compliance/certification tests shall be submitted to the District within forty-five (45) days after testing.

11. The o/o shall submit to the APCO and USEPA Region IX the following information for the preceding calendar quarter by January 30, April 30, July 30 and October 30 of each year this permit is in effect. Each January 30 submittal shall include a summary of the reported information for the previous year. This information shall be maintained on-site for a minimum of five (5) years and shall be provided to District personnel upon request:

- a. Total plant operation time (hours);
- b. Date and time of each startup and shutdown;
- c. All CEMS data reduced and reported in accordance with a District-approved protocol;
- d. Maximum hourly, total quarterly and total calendar year emission of NO<sub>x</sub> and Particulate Matter (including calculation protocol);
- e. Total quarterly and total calendar year usage of each fuel;
- f. Fuel sulfur content (supplier certifications);
- g. All excess emissions, including the information regarding malfunctions/breakdowns required by Rule 430;
- h. The HHV for liquid fuels burned shall be determined from daily samples and reported as a monthly average for each month (Rule 1158(E)(5)) for those months in which liquid fuel is burned.

12. This unit shall exhaust through a vent not less than 72.75 feet above the ground and not more than 250 feet above the ground.