



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

PERMIT TO OPERATE

B003132

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

EXPIRES LAST DAY OF: NOVEMBER 2026

OWNER OF OPERATOR (Co.#88)

NAWS
429 E Bowen Road - Stop 4014
China Lake, CA 93555-6108

EQUIPMENT LOCATION (Fac.#567)

NAWCWD Test Stands
429 E Bowen Road - Stop 4014
China Lake, CA 935556108

Description:

ROCKET AND AIR BREATHING ENGINE TEST STANDS, T-RANGE (AEROHEAT) consisting of: Three test stands. These three test stands are designed for: 1) Static horizontal airbreathing engine tests; 2) Aerothermal material tests; and 3) Rocket motor tests (performed vertically or horizontally). Each test stand utilizes a vitiator that generates heated airflow with high flow rates, temperatures, and pressures. Liquid hydrocarbons (such as JP-10) are often utilized in the horizontal airbreathing engine testing. These rocket test stands are only used for the purpose of Department of Defense Research, Development, Testing and Evaluation (RDT&E).

CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [District Rule 204]

2. The maximum volume of propane/LPG used at this test stand shall not exceed the following limits:

- 10,000 gallons in any one test.
- 20,000 gallons in any one rolling consecutive seven day period.
- 420,000 gallons in any one rolling consecutive twelve month period.

[District Rule 204]

Fee Schedule: 7 (i)

Rating: 1 device

SIC: 9711

SCC: 20400110

Location/UTM(Km):
450E/3946N

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.

NAWS
Environmental Management Division

China Lake, CA 93555-6108

By: **COPY**
Brad Poiriez
Executive Director

3. The maximum volume of non-propane/LPG liquid hydrocarbons used at this test stand shall not exceed the following limits:

- a. 2,000 gallons in any 24 hour period, midnight to midnight.
- b. 11,000 gallons in any one rolling consecutive twelve month period.

[District Rule 204]

4. The maximum weight of solid propellant used at this test stand shall not exceed the following limits:

- a. 1,000 pounds in any 24 hour period, midnight to midnight.
- b. 6,000 pounds in any one rolling consecutive twelve month period.

[District Rule 204]

5. The meteorological conditions that are required for a test firing are as follows:

- (a) For tests involving solid rocket motors in a vertical test configuration (i.e. nozzle up) - Average wind speed greater than one mph and less than 15 mph;
- (b) For tests involving solid rocket motors in a horizontal test configuration - Average wind speed less than 30 mph; and
- (c) For all other tests - No wind speed limitation.

[District Rule 204]

6. The owner/operator shall maintain an operations log for this test stand current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:

- (a) Test Bay number and/or District Permit number;
- (b) Date, time, and duration of test;
- (c) Amount, in pounds of propellant and gallons of liquid hydrocarbons (including propane/LPG) used in each test; and
- (d) Wind speed before each test.

[District Rule 204; 40 CFR 70.6(a)(3)(ii)(b)]

7. No more than one test shall be permitted at the T-Range Area within an interval such that measurable exposure from one test is added to the emissions from other tests or other activities emitting significant pollutants.

[District Rule 204]

8. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]