



**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**

B003133

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:**

TEST FACILITY (WEAPONS SURVIVABILITY RANGE MAIN: HIVAS) consisting of: Six test pads. This facility includes the High Velocity Air Flow System (HIVAS), with four Pratt & Whitney TF-33 turbofan engines in a square cluster with their axes parallel and horizontal. HIVAS is located on a turntable allowing it to be used on any of four adjacent test pads, and was installed in 1974. This facility performs aircraft live fire survivability or lethality tests, aerodynamic tests, cookoff tests, and remote-controlled run-up and operation of aircraft, sea vehicle, land vehicle and/or missile engines.

**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. No more than one test shall be permitted at this facility within an interval such that measurable emissions from one test are added to the emissions from other tests, or other activities emitting significant pollutants. [District Rule 204]
3. The following per test limits shall not be exceeded, unless previously approved in writing by the District:
  - a. Fuel in test item per live fire or cookoff test - 2,000 gallons

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**  
**Eldon Heaston**  
Air Pollution Control Officer

- b. Fuel in test item per aerodynamic test or run up - 4,000 gallons
  - c. Exterior fuel per cookoff test - 2,000 gallons
  - d. Any combination of Explosives, Propellants, and Flares per live fire, aerodynamic or cookoff test - 3,000 pounds
  - e. HIVAS fuel per live fire test - 5,000 gallons
  - f. HIVAS fuel per aerodynamic test - 20,000 gallons
- [District Rule 204]

4. No more than 3,000 lb of energetic material (propellant, explosives or pyrotechnics) shall be used for tests within any consecutive 24 hour period, unless previously approved in writing by the District.

[District Rule 204]

5. No more than 50,000 gallons of fuel shall be used for all tests in the Weapons Survivability Lab complex within any consecutive 24 hour period, unless previously approved in writing by the District.

[District Rule 204]

6. No more than forty-five (45) tests shall be conducted within any seven (7) consecutive day period, unless previously approved in writing by the District.

[District Rule 204]

7. The owner/operator shall maintain an operations log for this test equipment/process 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. Type of test;
- b. Amounts (in gallons) and types of fuels used in each test, including amount used by HIVAS;
- c. Amounts (in pounds) and types of energetic materials used in each test;
- d. Date of each test; and
- e. Wind speed before each test involving ordnance.

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

8. For tests involving the use of ordnance, the wind speed from any and all directions must be less than 30 mph.

[District Rule 204]

9. 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]