



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

AUTHORITY TO CONSTRUCT

B015552

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: MAY 2027

OWNER OF OPERATOR (Co.#3210)

GITAI USA, Inc.
3305 Kashiwa Street
Torrance, CA 90505

EQUIPMENT LOCATION (Fac.#4693)

GITAI USA, Inc.
42120 Kaderka Road
Barstow, CA 92311

Description:

SOLID FUEL ROCKET TEST STAND consisting of: Static, atmospheric test stand for ground-based firing tests of Ammonium Perchlorate Composite Propellant (APCP) solid rocket motors. Solid rocket motors are mounted to the test stand vertically and remotely ignited for short-duration testing, firing orientation is directly upward. Combustion products are discharged to the atmosphere and may include hydrogen chloride, particulate matter/metal oxides, CO, NOx, and other minor combustion byproducts.

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. Visible emissions from this equipment shall not exceed an opacity equal to, or greater than, twenty percent (20%) for a period aggregating more than three (3) minutes in any one (1) hour, excluding uncombined water vapor. This equipment shall not discharge air contaminants or materials constituting a nuisance to any considerable number of persons or to the public. No visible emissions shall extend beyond the property line of the emission source.

NOTICE: If visible emissions are observed from the exhaust of any solid rocket motor mounted on this test stand, due to incomplete combustion or other causes aside from tail-off or normal operation, operation of this test stand must cease until the cause of poor

Fee Schedule: 7 (b)

Rating: 1 device

SIC: 3769

SCC: 20400201

Location/UTM(Km):
506E/3874N

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.

GITAI USA, Inc.
3305 Kashiwa Street
Torrance, CA 90505

By: **COPY**
Brad Poiriez
Executive Director

combustion is identified.

[District Rule 204; District Rule 401; District Rule 402; District Rule 403]

3. This test stand may only be used to test solid rocket motors. This test stand shall not be used for any solid propellant other than APCP composed as specified in the application submitted on 04/29/2026.

NOTE: Any use of this test stand other than outlined above is strictly prohibited. If this test stand will be used for motors utilizing other fuel or oxidizer systems, a permit modification application must be submitted and a modified permit must be issued prior to conducting any other tests. A Health Risk Assessment (HRA) and public noticing may be required.

[District Rule 204; District Rule 1320; District Rule 1520]

4. This test stand shall not exceed the following:

a. 7,938 pounds (3,600 kilograms) of APCP in any year (any consecutive 12-month period) composed as specified in the application dated 04/29/2026;

b. 154.35 pounds (70 kilograms) of APCP in any one day (midnight to midnight) composed as specified in the application dated 04/29/2026;

c. 1 test per calendar day; and,

d. 52 tests per calendar year.

[District Rule 204; District Rule 1320(E)(3) - Dispersion Modeling and HRA]

5. No more than one test shall be conducted per day. Furthermore, no more than one test shall be permitted at the test stand assigned District Permit No. B015552 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; District Rule 406]

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

a. The minimum wind speed from any and all directions shall be greater than 5 mph

b. The maximum wind speed from any and all directions shall be less than 30 mph; and,

c. Relative humidity shall be less than 80%.

[District Rule 204; District Rule 406; District Rule 1320(E)(3) - Dispersion Modeling and HRA]

7. The test stand under District Permit B015552 and solid rocket motors applied to it will emit hydrochloric acid (HCl). Emissions of HCl from solid rocket motors must not result in an ambient concentration of HCl exceeding 800 ppmv at the property boundaries, pursuant to Rule MD0406. The property boundary HCl concentration has been verified to be less than the Rule threshold by dispersion modeling using worst-case scenarios and details provided the original application package, dated 04/29/2026; fence-line monitoring requirements have been omitted but may be reinstated if changes occur in the propellant mass, test duration, test frequency, or motor configuration.

[District Rule 204; District Rule 406; District Rule 1320(E)(3) - Dispersion Modeling and HRA]

8. The owner/operator must maintain an operations log for this equipment. This log shall be maintained current and on-site for a minimum of two (2) years and be provided to authorized personnel including District, State, and Federal authorities upon request. The log shall contain the following at a minimum:

a. Date and Time of test performed;

b. Duration of the test (in seconds);

c. Amounts of solid propellant used during each test (in pounds);

d. Consecutive 12-month totals of solid propellant used (in pounds);

e. Meteorological conditions before each test: wind speed (in miles per hour) and relative humidity (in percent); and,

f. Times and durations of malfunctions, a description of each malfunction, and the corrective action taken for each malfunction.

[District Rule 204]

9. This solid rocket motor test stand is permitted as stationary equipment and is prohibited from being relocated, on-site or otherwise, after installation. If the test stand must be relocated, a permit modification application and dispersion modeling may be required to verify Rule compliance.

[District Rule 204; District Rule 406; District Rule 1320(E)(3) - Dispersion Modeling and HRA]

10. If any engine 50bhp or greater is used to generate power at this facility a permit application is required and must be submitted to the District prior to operation of the engine. Use of line power is not restricted by MDAQMD.

NOTE: Permit applications may be submitted by email to Engineering@mdaqmd.ca.gov or delivered to 14306 Park Ave., Victorville, CA 92392.

[District Rule 204]

11. 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; 17 CCR 93400 et seq.; 40 CFR 51, Subpart A]