



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

B014966

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: NOVEMBER 2025

OWNER OF OPERATOR (Co. #681)

General Atomics - LSNC
3550 General Atomics Court
San Diego, CA 92121-1194

EQUIPMENT LOCATION (Fac. #1648)

G A Aeronautical Sys - El Mirage Rd
73 El Mirage Airport Road
Adelanto, CA 92301

Description:

DIESEL IC ENGINE, LOW-USE, PORTABLE GENERATOR consisting of: A certified Tier 3 (or higher) diesel engine with no exhaust after-treatment devices. PLEASE NOTE: This permit has been written to encompass a generic USEPA certified Nonroad Compression-Ignition Tier 3 (or higher) engine rated between 50 - 200 bhp, allowing this facility to operate any one of a variety of portable engines that comply with the limitations imposed via these permit conditions.

One TBD, Diesel fired internal combustion engine Model No. TBD and Serial No. TBD, After Cooled, Compression-Ignited, Turbo Charged, producing 200 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 8.0 gal/hr. This equipment powers a TBD Generator Model No. TBD and Serial No. TBD, rated at TBD.

CONDITIONS:

1. The certified Tier 3 (or higher) compression-ignited internal combustion engine operated under this permit and the associated emission control systems 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 air 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 1302(C)(2)(a)]

2. The engine operated under this permit shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements; or alternative diesel fuel, or CARB diesel fuel utilizing fuel additives, that has been verified through the Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines. [Title 17 CCR 93116.3(a)]

Fee Schedule: 1 (b) Rating: 200 bhp SIC: 3721 SCC: 20100102 Location/UTM(Km): 459E/3826N

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.

General Atomics - LSNC
ATTN: LSNC

San Diego, CA 92186-5608

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

3.Any engine operated under this permit and its associated equipment cannot be operated at the same location for more than 365 consecutive days. This equipment must be moved for a valid business purpose annually.
[District Rules 1302, 1303, and 1320 and Title 17 CCR 93116.2(a)(29)]

4.A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[District Regulation XIII - NSR and Title 17 CCR 93116.4(b)(2)(A)]

5.The cumulative hours for all engines operated under this permit shall not exceed 200 hours in any consecutive 12 month period, nor more than 19 hours per day (midnight to midnight). Before this limitation can be increased, the facility is required to submit to the District an application to modify the permit, which may trigger BACT review and may necessitate a Health Risk Assessment (HRA). In addition, public notice and/or a commenting period may be required.
[District Rules 1302, 1303, 1320, and 1520; 17 CCR 93116.2(a)(23)]

6.The engine operated under this permit shall not be operated unless all emission control systems are properly functioning. Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.
[District Rule 1302]

7.The owner/operator shall maintain an operations log for this unit, 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. Date, location (decimal degrees, xx.xxxxx;-yyy.yyyyy), duration of each use (in hours), engine horsepower rating and engine emission tier;
- b. Monthly and consecutive 12 month period hour meter readings, including the dates of all monthly readings;
- c. USEPA Certificates of Conformity or CARB Executive Orders for every engine operated under this permit;
- d. Date of each maintenance action or repair on any equipment noted in Condition #6;
- e. Description of each maintenance action or repair on any equipment noted in Condition #6; and
- f. Fuel sulfur concentration as required by condition #2 (you may use the supplier's certification of sulfur content if it is maintained as part of this log).

[District Regulation XIII - NSR and Title 17 CCR 93116]

8.This engine operated under this permit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Portable Compression Ignition Engines (Title 17 CCR 93116). In the event of conflict between these conditions and the ATCM, the more stringent requirements shall govern.

[District Rule 1302 and Title 17 CCR 93116]

9.No more than one engine may be operated under this permit at any one time.
[District Rule 204]

10.The engine operated under this permit shall not exceed 200 brake horsepower.
[District Rule 1302]

11.Any engine operated under this permit and rated between 50-74 bhp must be USEPA certified to meet the Tier 4 interim (or higher) emission standards. The owner/operator must comply with the emission standards over the entire life of the engine. Compliance must be demonstrated with either a USEPA Certificate of Conformity or a CARB Executive Order.

Maximum Allowable Emission Standards:

- a. NO_x + NMHC: 4.7 g/kW-hr (3.5 g/bhp-hr);
- b. CO: 5.0 g/kW-hr (3.7 g/bhp-hr); and
- c. PM: 0.3 g/kW-hr (0.22 g/bhp-hr).

Certification documentation for the emission standards must be retained with the engine and shall be provided to District, State and Federal personnel upon request.

[District Rule 1303, Title 17 CCR 93116, and 40 CFR 60, Subpart IIII]

12. Any engine operated under this permit and rated between 75-99 bhp must be USEPA certified to meet the Tier 3 (or higher) emission standards. The owner/operator must comply with the emission standards over the entire life of the engine. Compliance must be demonstrated with either a USEPA Certificate of Conformity or a CARB Executive Order.

Maximum Allowable Emission Standards:

- a. NO_x + NMHC: 4.7 g/kW-hr (3.5 g/bhp-hr);
- b. CO: 5.0 g/kW-hr (3.7 g/bhp-hr); and
- c. PM: 0.4 g/kW-hr (0.3 g/bhp-hr).

Certification documentation for the emission standards must be retained with the engine and shall be provided to District, State and Federal personnel upon request.

[District Rule 1303, Title 17 CCR 93116, and 40 CFR 60, Subpart IIII]

13. Any engine operated under this permit and rated between 100-174 bhp must be USEPA certified to meet the Tier 3 (or higher) emission standards. The owner/operator must comply with the emission standards over the entire life of the engine. Compliance must be demonstrated with either a USEPA Certificate of Conformity or a CARB Executive Order.

Maximum Allowable Emission Standards:

- a. NO_x + NMHC: 4.0 g/kW-hr (3.0 g/bhp-hr);
- b. CO: 5.0 g/kW-hr (3.7 g/bhp-hr); and
- c. PM: 0.3 g/kW-hr (0.22 g/bhp-hr).

Certification documentation for the emission standards must be retained with the engine and shall be provided to District, State and Federal personnel upon request.

[District Rule 1303, Title 17 CCR 93116, and 40 CFR 60, Subpart IIII]

14. Any engine operated under this permit and rated between 175-200 bhp must be USEPA certified to meet the Tier 3 (or higher) emission standards. The owner/operator must comply with the emission standards over the entire life of the engine. Compliance must be demonstrated with either a USEPA Certificate of Conformity or a CARB Executive Order.

Maximum Allowable Emission Standards:

- a. NO_x + NMHC: 4.0 g/kW-hr (3.0 g/bhp-hr);
- b. CO: 3.5 g/kW-hr (2.6 g/bhp-hr); and
- c. PM: 0.2 g/kW-hr (0.15 g/bhp-hr).

Certification documentation for the emission standards must be retained with the engine and shall be provided to District, State and Federal personnel upon request.

[District Rule 1303, Title 17 CCR 93116, and 40 CFR 60, Subpart IIII]

15. Any USEPA Tier 3 certified engine operated under this permit and built prior to 1/1/2009 may not be sold, or offered for sale, to an end user in California on or after January 1, 2027. The sale of engines for resale outside of California is not prohibited.

[Title 17 CCR 93116.3(e)]

16. Any USEPA Tier 3 certified engine operated under this permit and built after 1/1/2009 may not be sold, or offered for sale, to an end user in California on or after January 1, 2029. The sale of engines for resale outside of California is not prohibited.

[Title 17 CCR 93116.3(e)]

17. The owner/operator shall notify the District within twenty-four (24) hours of operation of any new engine under this permit. This is only necessary for the initial engine and when engines have been exchanged under this permit. Notification must be sent electronically to engineering@mdaqmd.ca.gov. The notification must include:

- a. This MDAQMD permit number;
- b. The USEPA engine family name and brake horsepower for the engine;
- c. Start and end dates of the use of the engine; and,
- d. The contact information of the owner/operator of the equipment.

[District Rule 204]

18. The owner/operator of the portable, diesel-fired, low-use engines operated under this permit are exempted from the requirements of

section 93116.3(c)(1) and 93116.3(c)(2), pursuant to section 93116.3(c)(3)(C) of Title 17 CCR 93116; and as such, must keep and maintain records pursuant to condition 7. The Responsible Official (owner/operator) must provide the following compliance report to the District by March 1 of each calendar year indicating the following:

- a. This MDAQMD permit number;
- b. A complete list of all USEPA engine family names and brake horsepower ratings for each engine operated under this permit; and,
- c. The hour meter readings taken at the beginning and end of the previous calendar year for each low-use engine operated under this permit.

Compliance Reports should be sent to the District via mail or electronically to reporting@mdaqmd.ca.gov
[District Rule 204 and Title 17 CCR 93116.4(b)and(d)]

19.The engine operated under this permit shall not be used within 1000 feet of any K-12 school, residence, hospital, or other sensitive receptor location. Sensitive receptor locations include, but are not limited to, hospitals, schools, and day care centers, and such other locations as the District board or California Air Resources Board may determine.
[District Rule 204 and H&SC 42301.6]

20.The entire facility shall not emit any of the Regulated Pollutants listed below in excess of the following limits in any consecutive 12 month period to remain below the USEPA's Synthetic Minor - 80% (SM-80) threshold:

- a. Oxides of Nitrogen (NOx): 20 tons per consecutive twelve (12) month period, measured as NO₂;
- b. Oxides of Sulfur (SOx): 20 tons per consecutive twelve (12) month period;
- c. Volatile Organic Compounds (VOC): 20 tons per consecutive twelve (12) month period;
- d. Carbon Monoxide (CO): 80 tons per consecutive twelve (12) month period;
- e. Hydrogen Sulfide (H₂S): 8 tons per consecutive twelve (12) month period;
- f. Lead (Pb): 0.48 tons per consecutive twelve (12) month period;
- g. Particulate Matter 10 microns and less (PM₁₀): 14.5 tons per consecutive twelve (12) month period;
- h. Any single Hazardous Air Pollutant (HAP): 8 tons per consecutive twelve (12) month period; and,
- i. All HAPs combined: 20 tons per consecutive twelve (12) month period.

Compliance with these limits shall be demonstrated through the submission of a facility-wide Comprehensive Emission Inventory (CEI) for all emitted Regulated Air Pollutants. Exceedance of these emission limits may trigger offsets, BACT, National Emission Standards for Hazardous Air Pollutants (NESHAP), and/or require submission of a Title V permit application.
[District Rules 1302 and 1303]

21.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]