



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

B014764

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 2026

OWNER OF OPERATOR (Co.#681)

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

EQUIPMENT LOCATION (Fac.#4349)

G A Aeronautical Sys - Various Locations
District Wide
MDAQMD, CA 92392

Description:

DIESEL IC ENGINE, PORTABLE GENERATOR consisting of: A certified Tier 3 diesel engine, EPA Family BCEXL0275AAG, manufactured in 2011 and equipped with factory-installed emission controls. Exhaust flow is approximately 7799 ACFM at 899 degrees Fahrenheit through a 7.4 foot tall by 4.1 inch diameter stack:

One Cummins, Inc., Diesel fired internal combustion engine Model No. QSB4.5 and Serial No. 73248444, Direct Injected, Turbo Charged, Electronic Control Module, Charge Air Cooler, producing 109 bhp with 4 cylinders at 2000 rpm while consuming a maximum of 3.5 gal/hr. This equipment powers a Hobart Ground Power Unit Model No. 60CU20 and Serial No. 211PS16621, rated at 60 kVA.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.671	gm/bhp-hr
NOx	2.692	gm/bhp-hr
NOx+NMHC	2.834	gm/bhp-hr
PM10	0.0969	gm/bhp-hr
PM2.5	0.0969	gm/bhp-hr
SOx	0.0031	gm/bhp-hr
VOC	0.142	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (b)

Rating: 109 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**
Eldon Heaston
Air Pollution Control Officer

1. This certified Tier 3 compression-ignited internal combustion engine 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. This engine 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)]

3. This engine 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]

5. This equipment shall not operate for more than 150 hours in any consecutive 12 month period. 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, and 1320]

6. This engine shall not be operated unless all of the following emission control systems are properly functioning:

- a. Electronic Control Module;
- b. Charge Air Cooler; and
- c. Turbocharger.

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 notify the District at least ten (10) days prior to operation of this equipment within the District. Notification must be sent electronically to engineering@mdaqmd.ca.gov. The notification must include:

- a. The permit number.
- b. The location/address where the equipment will be operated and description of the project.
- c. The contact information of the owner/operator of the equipment.

[District Rule 204]

8. 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), and duration of each use (in hours);
- b. Monthly and consecutive 12 month period hour meter readings, including the dates of all monthly readings;
- c. Date of each maintenance action or repair on any equipment noted in Condition #6;
- d. Description of each maintenance action or repair on any equipment noted in Condition #6; and
- e. 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]

9. This engine 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]

10. If this engine is operated as a part of a large fleet, defined as total maximum horsepower of greater than 750 for all portable engines under common ownership and control by a person, business, or government agency that are operated in California and meet the applicability listed in 17 Cal. Code Regs., section 93116.1, this USEPA Tier 3 certified engine may not be operated in California on or after January 1, 2027 unless the engine meets one of the following:

- a. The engine has been designated as low-use, in accordance with Title 13 CCR 2453(p); or
- b. The engine has been designated as emergency, in accordance with Title 13 CCR 2453(p); or
- c. The engine has been equipped with a properly functioning level-3 verified technology.

[Title 17 CCR 93116.3(c)(1)(A)]

In order to designate these engines as low-use or emergency, the owner/operator must submit an application to the District to modify this permit, in addition to submitting a modification to CARB via PERP Form 20 (Application for a Correction or Modification to an Existing Registration) according to the provisions of Title 13 CCR 2453(p).

"Level-3 Verified Technology" means a technology that has satisfied the requirements of the "Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines" in title 13, Cal. Code Regs., commencing with section 2700, and has demonstrated a reduction in diesel particulate matter of 85 percent or greater. In order to install a level-3 technology, the owner/operator must submit an application to the District to modify this permit.

If this engine is operated as a part of a small fleet, defined as total maximum horsepower of less than 750 for all portable engines under common ownership and control by a person, business, or government agency that are operated in California and meet the applicability listed in 17 Cal. Code Regs., section 93116.1, this USEPA Tier 3 certified engine may not be operated in California on or after January 1, 2029 unless the engine meets one of the following:

- a. The engine has been designated as low-use, in accordance with Title 13 CCR 2453(p); or
- b. The engine has been designated as emergency, in accordance with Title 13 CCR 2453(p); or
- c. The engine has been equipped with a properly functioning level-3 verified technology.

[Title 17 CCR 93116.3(c)(1)(A)]

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11. This USEPA Tier 3 certified engine 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)]

12. This engine shall not be used within 350 meters (1148 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&S Code 42705.5(a)(5)]

13. 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]