



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

B013559

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: JANUARY 2025

OWNER OF OPERATOR (Co. #681)

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

EQUIPMENT LOCATION (Fac. #1812)

G A Aeronautical Sys - Gray Butte
25000 E Avenue R-8
Palmdale, CA 93550

Description:

DIESEL IC ENGINE, PORTABLE, GENERATOR (Hobart 25) consisting of: A certified Tier 4 Final Diesel engine, USEPA Family Name JCEXL04.5AAH, manufactured in 2018 with no exhaust after-treatment device installed. Exhaust stack is 5.375 feet high and 3 inches in diameter, exhaust flow rate of 602 cubic feet per minute at 788 degrees Fahrenheit. Elevation: 3034'

One Cummins, Diesel fired internal combustion engine Model No. QSB4.5 and Serial No. 74307644, Direct Injected, Turbo Charged, Inter Cooled, Electronic Control Module, Four-Stroke Lean Burn, producing 155 bhp with 4 cylinders at 2000 rpm while consuming a maximum of 7.46 gal/hr. This equipment powers a Hobart Ground Power Unit Model No. 4490 and Serial No. 318PS22651, rated at 90 kVa.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.03	gm/bhp-hr
NOx	0.07	gm/bhp-hr
PM10	0.02	gm/bhp-hr
PM2.5	0.02	gm/bhp-hr
SOx	0.005	gm/bhp-hr
VOC	0.30	gm/bhp-hr

CONDITIONS:

Fee Schedule: ED (N/A)

Rating: 1 Engine

SIC: 3721

SCC: 20100102

Location/UTM(Km):
437E/3824N

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

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 1302]

2. This engine and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. This equipment must be moved for a valid business purpose at least annually.?
[Title 17 CCR 93116; District Rules 1302, 1303, and 1401]

3. This unit 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)]

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 Rule 1302(C)(2)(a) and Title 17 CCR 93116]

5. This equipment shall not operate more than 1,000 hours per year when operated at the "G A Aeronautical Systems - Gray Butte" facility located at 25000 East Avenue R-8 in Palmdale, CA.
[District Rule 1401]

6. 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 of each use, location of each use, and duration of each use (in hours);
 - b. Reason for use (regular use, testing & maintenance, required emission testing);?
 - c. Monthly and consecutive 12 month period hours of operation (in hours);
 - d. Calendar year operation in terms of fuel consumption (in gallons) or total hours (to assist in CEI data collection); ?
 - e. Description of all repairs and/or maintenance actions on emission control systems noted in condition 5; and,
 - f. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).
- [District Rule 1302(C)(2)(a)]

7. Pursuant to Title 17 CCR 93116.3(c)(2), for large fleets that elect not to comply with section 93116.3(c)(1), the fleet must comply with the following weighted PM emission fleet averages expressed as grams per brake horsepower-hour (g/bhp-hr) by the listed compliance dates:

// Compliance Date // Weighted DPM (g/bhp-hr)
January 1, 2020 // 0.10
January 1, 2023 // 0.06
January 1, 2027 // 0.03
===

8. In order to comply with fleet average option in section 93116.3(c)(2) as outlined in condition 7, the responsible official for a large fleet must submit a written request to the Executive Officer of the California Air Resources Board, no later than June 30, 2019. At a minimum, the written request will include a listing of each engine in the fleet including registration number, serial number, maximum rated bhp, and engine family name. A copy of this submission must be provided to the District upon request.
[Title 17 CCR 93116.3(c)(2)(B)]

9. The owner/operator must provide the following reports to the California Air Resource Board for large fleets subject to the requirements of section 93116.3(c)(2), as outlined in condition 8:

A statement of compliance signed by the Responsible Official that the fleet standards are being achieved and a summary that identifies each portable engine in the fleet and the associated emission rate (g/bhp-hr). Portable engines included in the fleet are those that are part of the fleet at the time the fleet standard became effective. The engine identification must include, at a minimum, registration number, bhp rating, engine family name, serial number, and year of manufacture for each engine. Alternative-fueled engines must be identified by fuel type. The statements of compliance are due to the Executive Officer of the California Air Resource Board at the following times:

- a. Upon application to add an engine to the fleet for any Tier 1 engine, Tier 2 engine, Tier 3 engine, including flexibility engines built to those standards;
- b. Upon a request to remove a Tier 4 interim engine or a Tier 4 final engine from a fleet, except for engine dealers and rental businesses;
- c. March 1, 2020, for the fleet standards that become effective January 1, 2020;
- d. March 1, 2023, for the fleet standards that become effective January 1, 2023; and
- e. March 1, 2027 for the fleet standards that become effective January 1, 2027. ? ?

The details pertaining to the contents of these statement of compliance reports are outlined in Title 17 CCR 93116.4. Copies of these compliance statements must be provided to the District upon request.

[Title 17 CCR 93116.4]

10. This equipment is a possible source of hazardous emissions and shall not be operated and/or located within 1,000 feet of a public or private school (kindergarten through 12th grade) of more than 12 students for more than 30 consecutive days without completing the notification required by California Health and Safety Code, Section 42301.6. The District must be notified immediately if this equipment is to operate, or be located, within 1,000 feet of a public school.

[District Rule 1302 and H&S Code 42301.6]

11. The owner/operator shall notify the District whenever this equipment is moved to a new facility (location) so that the District can reassess the health impacts associated with this equipment operation at the new location. Notifications must be sent at least ten (10) days in advance of the anticipated move, and must at a minimum, include the following information. Notifications must be sent electronically to engineering@avaqmd.ca.gov

- a. The District permit number of the engine being moved,
- b. The name and address of the new facility/location; and
- c. The expected startup date of the engine at the new location.

[District Rule 1302 and 1401]

12. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (Title 17 CCR 93116).

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]