

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park AvenueVictorville,CA92392-2310 760.245.1661 -- 800.635.4617 -- FAX760.245.2022

PERMIT TO OPERATE

E013579

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 2025

OWNER OF OPERATOR (Co.#681)

General Atomics - LSNC 3550 General Atomics Court San Diego,CA92121-1194

EQUIPMENT LOCATION (Fac.#1648)

G A Aeronautical Sys - El Mirage Rd 73 El Mirage Airport Road Adelanto,CA92301

Description:

DIESEL IC ENGINE, EMERGENCY FIRE PUMP consisting of:A Certified Tier 3 diesel engine, USEPA family JJDXL09.0114, model year 2018 with no exhaust after-treatment device installed. Exhaust flow is approximately 1867 cfm, at 842 degrees Fahrenheit through a 6.75 foot high by 6 inch diameter exhaust stack. Facility refers to this Permit Unit as "Fire Pump #1".

OneJohn Deere, Diesel fired internal combustion engine Model No.JW6H-UFAD70 and Serial No.RG609L138168, After Cooled, Turbo Charged, Direct Injected, Electronic Control Module, producing376 bhp with6 cylinders at1760 rpm while consuming a maximum of18.8gal/hr. This equipment powers aClarkeFire Pump Model No.JW6H-UFAD70 and Serial No.1940472-01RE, rated atTBD.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	0.67	gm/bhp-hr
NOx	2.84	gm/bhp-hr
PM10	0.08	gm/bhp-hr
SOx	0.01	gm/bhp-hr
VOC	0.04	gm/bhp-hr

CONDITIONS:

1. This certified Tier 3 stationary compression-ignited internal combustion engine, and any associated air pollution control equipment, shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound

Fee Schedule:7 (g)	Rating:1device	SIC:3721	SCC:20100102
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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,CA92186-5608



Brad Poiriez Air Pollution Control Officer

Location/UTM(Km):459E/3826N

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. [40 CFR 60.4211(a)]

2.A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this equipment to indicate elapsed engine operating time.

[17 CCR 93115.10(d)]

3. This engine shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines:

a. Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight basis; and,

- b. A cetane index or aromatic content, as follows:
- 1. A minimum cetane index of 40; or,
- 2. A maximum aromatic content of 35 volume percent.
- [17 CCR 93115.5(a) and 40 CFR 80.510(c)]

Note: Use of CARB certified ULSD fuel satisfies the above requirements.

4. This engine shall be limited to use for emergency power, defined as in response to a fire or flood, or when commercially available power has been interrupted. In addition, this engine shall be operated no more than 50 hours per year for testing and maintenance. [17 CCR 93115.6(a)(3)(A)(1)(c)]

5. The hour limit indicated in condition 4, above, does not apply to in-use emergency fire pump assemblies that are driven directly by stationary diesel-fueled CI engines and only operated the number of hours necessary to comply with the testing requirements of National Fire Protection Association (NFPA) 25 "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 2002 edition, which is incorporated herein by reference. [17 CCR 93115.3(n)]

6. The owner/operator shall maintain an operations log for this equipment 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/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:

a. Date(s) of each use and hours of operation;

b. Reason for use (regular maintenance & testing, NFPA maintenance & testing, emergency, etc.

c. Monthly and rolling 12 month period operation in terms of fuel consumption (in gallons) and/or total hours (both emergency and nonemergency use, classified as described in b. above);

d. Fuel sulfur concentration as required by condition #3 above (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log); and,

e. Maintenance performed on this equipment.

[17 CCR 93115.10(f)]

7. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines and 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (NSPS). In the event of a conflict between these conditions and the ATCM or NSPS, the more stringent requirements shall govern.

[District Rule 1302]

8. 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]

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]