



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

E010965

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, EMERGENCY GENERATOR consisting of: Tier 0, Model Year 1989 This existing commercial emergency stationary RICE (as defined at 40 CFR 63.6675) is located at an area source of HAP emissions and is operated in accordance with the provisions specified under 40 CFR 63.6640(f); therefore, is exempt from the requirements of 40 CFR Part 63, Subpart ZZZZ.

OneCAT, Diesel fired internal combustion engine Model No. 3606 and Serial No. 2AJ00255, After Cooled, Turbo Charged, producing 378 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 27.0 gal/hr. This equipment powers a TBD Generator Model No. TBD and Serial No. TBD, rated at TBD.

EMISSIONS RATES

| Emission Type | Est. Max Load | Unit |
|---------------|---------------|--------|
| CO | 2.525 | lbs/hr |
| NOx | 11.718 | lbs/hr |
| PM10 | 0.832 | lbs/hr |
| SOx | 0.775 | lbs/hr |
| VOC | 0.934 | lbs/hr |

CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment

Fee Schedule: 7 (g) Rating: 1 device 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

shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 1302]

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 equipment 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:
 - (i) A minimum cetane index of 40; or,
 - (ii) A maximum aromatic content of 35 volume percent.

[District Rule 431 and 17 CCR 93115.5(a)]

Note: Use of CARB certified ULSD fuel satisfies these requirements.

4.The owner/operator shall maintain an operations log for this equipment current and on-site (or at a central location) for a minimum of three (3) 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 of each use and duration of each use (in hours);
- b. Reason for use (regular testing & maintenance, NFPA testing & maintenance, emergency, etc.);
- c. Monthly and rolling 12 month period operation in terms of fuel consumption (in gallons) and/or total hours (both emergency and non-emergency use, classified as described in b. above);
- d. Fuel sulfur concentration as required by condition #3 (the o/o 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.

[District Rules 431 and 17 CCR 93115.10(f)]

5.This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 20 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour per year limit.

[District Rule 1320 (hour limiting) and 17 CCR 93115.6(b)(3)(A)(1)(a)]

6.This equipment may operate in response to an impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time. The engine may be operated no more than 30 minutes prior to the forecasted outage and must be shut down immediately after the utility advises that the outage is no longer imminent or in effect.

[17 CCR 93115.6(b)(1)]

7.This equipment shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.

[17 CCR 93115.6(c)(2)(C)]

8.This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines. In the event of a conflict between these conditions and the ATCM, the more stringent requirements shall govern.

[District Rule 1302]

9.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]

10.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]