MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
14306 Park AvenueVictorville,CA92392-2310
760.245.1661 -- 800.635.4617 -- FAX760.245.2022

PERMIT TO OPERATE

E012022

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 GENERATOR consisting of:A certified Tier 3 diesel engine, EPA Family DVPXL12.8BCA, manufactured in 2013 with no exhaust after-treatment device installed.

OneVolvo Penta,Diesel fired internal combustion engine Model No.TAD1353GE and Serial No.D13419995B1A,After Cooled,Exhaust Gas Recirculation,Exhaust Gas Recirculation,Smoke Puff Limiter,Turbo Charged, producing601 bhp with6 cylinders at1800 rpm while consuming a maximum of28.5gal/hr. This equipment powers aMQ PowerGenerator Model No.KD400V and Serial No.WA-547758-1205, rated at449 KW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.06	gm/bhp-hr
NOx	2.76	gm/bhp-hr
PM10	0.14	gm/bhp-hr
SOx	0.01	gm/bhp-hr
VOC	0.15	gm/bhp-hr

CONDITIONS:

1.This certified stationary compression-ignited internal combustion engine 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

Fee Schedule:7 (g) Rating:1device 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,CA92186-5608

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

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.
[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 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.
[17 CCR 93115.5(a) and 40 CFR 60.4207(b)]
Note: Use of CARB certified ULSD fuel satisfies the requirements of subparagraph 3.b above.

4.The owner/operator shall maintain an operations log for this engine 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 Federal personnel upon request. The log shall include, at a minimum, the following information:
a. Date of each use and duration of each use (in hours);
b. Reason for use (testing & maintenance, emergency, required emission testing, etc.);
c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and/or total hours;
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.
[17 CCR 93115.10(f)]

5.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(a)(2)]

6.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)(1)(C)]

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.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)(1)(c)]

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]