



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

E015633

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 2027

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:

NATURAL GAS IC ENGINE, EMERGENCY GENERATOR consisting of: A US EPA Certified Rich-burn spark ignition internal combustion engine, driving a generator used to provide emergency power to this facility. USEPA family TGNXB04.4MDF, manufactured in 2026. Exhaust flow approximately 331 acfm, at 1338 degrees Fahrenheit through a 8.5 foot high by 0.3 foot diameter exhaust stack. Equipment is located at an elevation of 2853 feet above sea level.

One Generac, NG fired internal combustion engine Model No. SG60 and Serial No. TBD, Three-Way Catalyst (also NSCR), Four-Stroke Rich Burn, Spark-Ignited, Turbo Charged, producing 116 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 795 scf/hr. This equipment powers a Generac Generator Model No. SG060 and Serial No. TBD, rated at 60 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.230	gm/bhp-hr
NOx	0.04	gm/bhp-hr
PM10	0.03	gm/bhp-hr
PM2.5	0.03	gm/bhp-hr
SOx	0.00026	gm/bhp-hr
VOC	0.13	gm/bhp-hr

Fee Schedule: 7 (g)

Rating: 116 device

SIC: 3721

SCC: 20100202

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
Executive Director

CONDITIONS:

1. This certified stationary, spark-ignited, internal combustion engine and its 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; 60.4234; and 60.4243(a)(1)]

2. 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 1160(D)(2)(b)(i); 40 CFR 60.4237]

3. This unit shall only be fired on PUC regulated Pipeline quality natural gas fuel.

[District Rule 406(a); District Rule 204; 40 CFR 60.4243]

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. This engine shall be operated no more than 100 hours per consecutive 12 month period for testing and maintenance. Please note there is no limitation on emergency use.

[District Rule 1160(D)(1)(d); 40 CFR 60.4243(d)(2)]

5. 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 following information:

a. Date of each use and duration of each use (in hours);

b. Reason for use (testing & maintenance, emergency, required emission testing);

c. Monthly and consecutive 12 month period operation in terms of fuel consumption in standard cubic feet and total hours;

d. The date and a summary of any emissions corrective maintenance taken;

e. Records of all maintenance and repair actions performed on the engine, including catalysts and any other emission control devices; and,

f. Calendar year operating hours to assist CEI calculations.

[District Rule 1160(D)(2)(b)(ii); 40 CFR 60.4245]

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.

[District Rule 204]

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.

[40 CFR 60.4243]

8. An Air-to-Fuel Ratio Controller shall be used in conjunction with the control device and shall be maintained and operated appropriately to ensure proper operation of the engine and control device to minimize emissions at all times.

[40 CFR 60.4243(g)]

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. For the purposes of CEI, Facility is defined as every structure, appurtenance, installation, and improvement on land which is associated with a source of air releases or potential air releases of a hazardous material.

[District Rule 107(b); H&S Code 39607 & 44341-44342; 17 CCR 93400 et seq.; and 40 CFR 51, Subpart A]