



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

E014063

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: JULY 2024

OWNER OF OPERATOR (Co. #681)

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

EQUIPMENT LOCATION (Fac. #1367)

G A Aeronautical Sys - Adelanto Yucca
9779 Yucca Road
Adelanto, CA 92301

Description:

NATURAL GAS IC ENGINE, EMERGENCY GENERATOR consisting of: A natural gas fueled emergency generator manufactured in 2015 under USEPA Family FGNXB05.42L1, equipped with a factory installed catalyst. Exhaust flow is 357 cfm at 1100 degrees Fahrenheit. Facility elevation is 2933 feet above sea level.

One Generac, NG fired internal combustion engine Model No. SG050 and Serial No. 10043424, producing 82 bhp with 8 cylinders at 1800 rpm while consuming a maximum of 879 scf/hr. This equipment powers a Generac Generator Model No. SG050 and Serial No. 1004324, rated at 50 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.640	gm/bhp-hr
NOx	0.220	gm/bhp-hr
PM10	0.000	gm/bhp-hr
PM2.5	0.000	gm/bhp-hr
SOx	0.003	gm/bhp-hr
VOC	0.380	gm/bhp-hr

CONDITIONS:

1. This certified, stationary, spark-ignited, internal combustion engine and its associated catalyst shall be installed, operated and

Fee Schedule: 7 (g)

Rating: 82 device

SIC: 3728

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

Air Pollution Control Officer

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.

[40 CFR 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, Subpart 60.4243; District Rule 1302]

2. This unit shall be fired on PUC-Regulated Pipeline Quality natural gas only.

[40 CFR 60.4243]

3. 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]

4. This unit shall be limited to emergency use only, 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 100 hours per year for testing and maintenance, excluding emission compliance source testing. Time required for compliance source testing will not be counted toward the 100 hour per year limit.

[40 CFR 60.4243(d), District Rule 1302]

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. Calendar year operation in terms of fuel consumption in standard cubic feet or total hours; and
- d. Maintenance and Repair actions on the engine and the catalyst.

[40 CFR 60.4245, District Rule 1320]

6. This engine and catalyst shall be maintained and operated according to the manufacturer's emission-related instructions at all times in order to minimize emissions and maintain its status as a certified stationary internal combustion engine.

[40 CFR 60.4243]

7. This engine 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.

[District Rule 1302]

8. This engine may operate in response to notification of impending involuntary 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 is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.

[District Rule 1302 and 40 CFR 60.4243(d)(2)(ii)]

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 (NO_x): 20 tons per consecutive twelve (12) month period, measured as NO₂;
- b. Oxides of Sulfur (SO_x): 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]