MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
14306 Park Avenue Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

# RENEWAL

E012124

Renewal type Permit has no description information.

## EXPIRES LAST DAY OF: NOVEMBER 2026

## OWNER OF OPERATOR (Co.#87)

Commanding Officer, MCLB Barstow, CA
Box 110570 Bldg 196 Attn: Air Program Manager
Barstow, CA 92311-5050

## EQUIPMENT LOCATION (Fac.#587)

USMC MCLB - Yermo Annex
USMC Logistics Base
Barstow, CA 923115013

**Description:**
NATURAL GAS IC ENGINE, EMERGENCY GENERATOR (BLDG 640) consisting of: Natural Gas IC Engine manufactured in 2013, USEPA Family DPWRB11.1NGP, equipped with a manufacturer-installed three way catalytic converter. Exhaust gas flow is 1211 ACFM at 1112 degrees Fahrenheit. Facility Elevation is 1964 ft above MSL.

One PSI (Doosan), NG fired internal combustion engine Model No. D111TIC and Serial No. EEIOH302863, Three-Way Catalyst (also NSCR), Four-Stroke Rich Burn, Air-To-Fuel Ratio Controller, Electronic Control Module, Spark-Ignited, producing 302 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 2115 scf/hr. This equipment powers a Kohler Generator Model No. 200REXB and Serial No. SGM3293ZF, rated at 200 kW(e).

### EMISSIONS RATES

| Emission Type | Est. Max Load | Unit |
|---|---|---|
| CO | 1.6 | gm/bhp-hr |
| NOx | 0.15 | gm/bhp-hr |
| PM10 | 0.10 | gm/bhp-hr |
| SOx | 0.019 | gm/bhp-hr |
| VOC | 0.20 | gm/bhp-hr |

## CONDITIONS:

Fee Schedule: 7 (g) | Rating: 2 device | SIC: 9711 | SCC: 20100202 | Location/UTM(Km): 512E/3861N

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.

Commanding Officer, MCLB Barstow, CA
Box 110570 Attn: Air Program Manager
Barstow, CA 92311-5050

By: **COPY**
Brad Poiriez
Executive Director

UNOFFICIAL

1. This stationary, spark-ignited, internal combustion engine, air-fuel ratio controller, and control device (three-way catalyst) 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 contaminants.
[40 CFR 60.4233(e), 60.4234, 60.4243(a),(d), and (g) - Subpart JJJJ - NSPS for Stationary Spark Ignition ICE]

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 1302(B)(1)(a)]

3. This unit shall only be fired on PUC-Regulated Natural Gas fuel, whose sulfur concentration is less than or equal to 0.0018% (18 ppm) on a weight per weight basis.
[District Rules 431 and 1303]

4. 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 information specified below:
a. Date of each use and duration of each use (in hours);
b. Reason for each use (testing & maintenance, emergency, emission testing, etc.);
c. Monthly and calendar year operation in terms of total hours; and
d. Records of all maintenance and repair actions performed on the engine, the AFRC, and the three-way catalyst.
[District Rules 1302(B)(1)(a) and 1302; 40 CFR 60.4245, 40 CFR 1048]

5. This engine may operate in response to notification of 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 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]

6. This unit 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(d), 60.4248]

7. This engine shall be source tested in accordance with the procedures outlined in 40 CFR 60.4244 within 90 days after the three-way catalyst is replaced. The source testing shall verify that the following emission limits are not exceeded:
NOx: 0.15 g/bhp-hr
VOC: 0.20 g/bhp-hr
CO: 1.60 g/bhp-hr
PM10: 0.10 g/bhp-hr
[District Rule 1302(B)(1)(a); 40 CFR 60.4244]

8. 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 compliance source testing. Time required for source testing will not be counted toward the 100 hour per year limit.
[District Rule 1302(B)(1)(a); 40 CFR 60, Subpart JJJJ]

9. This engine is subject to the requirements of the New Source Performance Standards (NSPS) for Stationary Spark Ignition IC Engines (40 CFR 60, Subpart JJJJ).
[District Rule 1302(B)(1)(a); 40 CFR 60, Subpart JJJJ]

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]