



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

E015280

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: JANUARY 2027

OWNER OF OPERATOR (Co.#3031)

California Department of Technology
P.O. Box 1810
Rancho Cordova, CA 95741

EQUIPMENT LOCATION (Fac.#4555)

California Department of Technology - Essex
111749 State Highway 40
Essex, CA 92332

Description:

LPG IC ENGINE, EMERGENCY GENERATOR consisting of: A Certified LPG-fired emergency internal combustion engine, USEPA PKHXB06.2NNL, manufactured in 2023. Exhaust flow is approximately 478 cfm, at 1274 degrees Fahrenheit through a 5-foot high by 2.4 inch diameter exhaust stack.

One Kohler , LPG fired internal combustion engine Model No. KG6208 and Serial No. TBD, Turbo Charged, After Cooled, Three-Way Catalyst (also NSCR), Air-To-Fuel Ratio Controller, Charge Air Cooler, producing 103 bhp with 8 cylinders at 1800 rpm while consuming a maximum of 410 scf/hr. This equipment powers a Kohler Generator Model No. KG60 and Serial No. TBD, rated at 60 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	1.36	gm/bhp-hr
NOx	0.10	gm/bhp-hr
PM10	0.25	gm/bhp-hr
PM2.5	0.05	gm/bhp-hr
SOx	0.02	gm/bhp-hr
VOC	0.04	gm/bhp-hr

CONDITIONS:

Fee Schedule: 7 (g)

Rating: 1 device

SIC: 9199

SCC: 20301001

Location/UTM(Km):
715E/3860N

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.

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By: **COPY**
Eldon Heaston
Air Pollution Control Officer

1. This stationary, spark-ignited, internal combustion engine, certified in accordance with 40 CFR Part 1048, and its associated control devices shall be installed, operated and maintained according to the manufacturer's emission-related written instructions. Further, the owner/operator shall change only those emission-related settings that are permitted by the manufacturer. 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 60.4231(c); 60.4233(c); 60.4234; 60.4243(a)(2)(ii)]

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 204]

3. The air-to-fuel ratio controller shall be used in conjunction with the operation of the three-way catalyst, 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)]

4. This engine shall not be operated unless the Nett Technologies Inc. TG Series catalytic converter is properly functioning. Additionally, any modifications to this system are prohibited unless performed by a factory-certified technician or authorized in advance with written permission from the APCO.
[District Rule 1302; District Rule 1303; District Rule 1320]

5. This unit shall be fired on commercial grade Liquefied Petroleum Gas (LPG) fuel only.
[District Rule 431]

6. 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. This unit shall be operated for no more than 100 hours per year for testing and maintenance, excluding compliance source testing.
[District Rule 1302; 40 CFR 60.4243(d)]

7. The owner/operator shall maintain an operations log for this unit 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 information specified below:
 - 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 gallons) or total hours;
 - d. Records of all inspections, maintenance and repair actions, and
 - e. Records of all maintenance and repair actions performed the air/fuel ratio controller, and the three-way catalyst, including date and description.
[District Rule 204; District Rule 1302; 40 CFR 60.4245]

8. 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]

9. 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.
[District Rule 204; 40 CFR 60.4243(d)]

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]