



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

PERMIT TO OPERATE

E004536

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: AUGUST 2026

OWNER OF OPERATOR (Co. #83)

USAF 412 CEG/CEVC
120 N. Rosamond Blvd, Bldg. 3735 (Suite A)
Edwards AFB, CA 93524

EQUIPMENT LOCATION (Fac. #565)

Air Force Research Laboratory
Edwards AFB
Edwards AFB, CA 93523

Description:

DIESEL IC ENGINE, EMERGENCY GENERATOR (NEXRAD) consisting of: A Certified Tier 3 diesel engine, USEPA family NJDXL04.5119, manufactured in 2022 with no exhaust after-treatment device installed. Exhaust flow is approximately 648 cfm, at 1074 degrees Fahrenheit through a 10.5 foot high by 3 inch diameter exhaust stack.

One John Deere, Diesel fired internal combustion engine Model No. 4045HF285H and Serial No. PE4045N035685, Turbo Charged, Charge Air Cooler, producing 133 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 6.9 gal/hr. This equipment powers a Kohler Generator Model No. 80REOZJF and Serial No. 33JVGMKD0049, rated at 80 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.969	gm/bhp-hr
NOx	2.535	gm/bhp-hr
PM10	0.522	gm/bhp-hr
PM2.5	0.522	gm/bhp-hr
SOx	0.005	gm/bhp-hr
VOC	0.112	gm/bhp-hr

CONDITIONS:

Fee Schedule: 7 (i)

Rating: 1 device

SIC: 9711

SCC: 20200102

Location/UTM(Km):
443E/3858N

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.

USAF 412 CEG/CEVC
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By: **COPY**
Eldon Heaston
Air Pollution Control Officer

1. This certified Tier 3 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 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) and 40 CFR 60.4214(b)]

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.Note: Use of CARB certified ULSD fuel satisfies the above requirements.
[17 CCR 93115.5(a), 40 CFR 80.510(c) and 40 CFR 60.4207(b)]

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. In addition, this engine shall be operated no more than 30 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 30 hour per year limit.
[17 CCR 93115.6(a)(3)(A)(1)(c) and 40 CFR 60.4211(f)(1-3)]

5. The owner/operator shall maintain an operations log for this engine 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, 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 owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log); and,
 - e. Maintenance and repairs performed on this equipment.[17 CCR 93115.10(f)]

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.
[17 CCR 93115.6(a)(2)]

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.
[17 CCR 93115.6(c)(1)(C)]

8. 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. In the event of a conflict between these conditions and the ATCM or NSPS, the more stringent requirements shall govern.
[District Rule 1302, Title 17 CCR 93115, and 40 CFR 60, Subpart IIII]

9. 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]