



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

E012364

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: NOVEMBER 2026

OWNER OF OPERATOR (Co.#88)

NAWS
429 E Bowen Road - Stop 4014
China Lake, CA 93555-6108

EQUIPMENT LOCATION (Fac.#567)

NAWCWD Test Stands
429 E Bowen Road - Stop 4014
China Lake, CA 935556108

Description:

DIESEL IC ENGINE, EMERGENCY FIRE PUMP (LTC) consisting of: A certified Tier 4i diesel engine, USEPA Family FJDXL04.5214, manufactured in 2015 by John Deere with no exhaust after-treatment device installed.

One John Deere (Clarke), Diesel fired internal combustion engine Model No. 4045TF290C and Serial No. PE4045R979047, Direct Injected, Turbo Charged, After Cooled, Compression-Ignited, producing 74 bhp with 4 cylinders at 2100 rpm while consuming a maximum of 4.1 gal/hr. This equipment powers a Clarke Fire Pump Model No. JU4H-UFAEF2 and Serial No. 15-073390-01-01/QKW396, rated at 53.3 bhp.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.89	gm/bhp-hr
NOx+NMHC	3.43	gm/bhp-hr
PM10	0.19	gm/bhp-hr
SOx	0.005	gm/bhp-hr

CONDITIONS:

Fee Schedule: 7 (g)

Rating: 1 device

SIC: 9711

SCC: 20200102

Location/UTM(Km):
450E/3946N

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.

NAWS
Environmental Management Division
China Lake, CA 93555-6108

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

1. This equipment 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. 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 204; 40 CFR 60.4211]

2. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time. [17 CCR 93115.10(d); 40 CFR 60.4209]

3. The owner/operator must purchase diesel fuel for this engine that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, which are as follows:

a. A 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:

1. A minimum cetane index of 40; or,

2. A maximum aromatic content of 35 volume percent.

[40 CFR 60.4207(b)]

Note: Use of CARB certified ULSD fuel satisfies the above requirements.

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 50 hours per rolling consecutive twelve-month period for testing and maintenance, unless NFPA (current edition) authorizes additional time: If the 50 hour limit is exceeded due to NFPA requirements, the owner/operator is to have the authorizing section of NFPA 25 available for review at all times. Time required for source testing will not be counted toward the 50 hour rolling annual limit.

STATE AND DISTRICT ENFORCEABLE ONLY

[District Rule 204; 17 CCR 93115.6(b)]

5. This unit shall be limited to emergency use only, as defined in 40 CFR 60.4219. In addition, this unit shall be operated no more than 100 hours per rolling consecutive twelve-month period for testing and maintenance, including compliance source testing.

[District Rule 204; 40 CFR 60.4211(f)]

6. 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 per hour meter);

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

(c) Rolling consecutive twelve-month period operation in terms of fuel consumption (in gallons or total hours);

(d) Records of all maintenance and inspections; and,

(e) Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content. Such certification may be stored separately from the remainder of the log.

[District Rule 204; 17 CCR 93115.10(f); 40 CFR 60.4214; 40 CFR 70.6(a)(3)(ii)(b)]

7. This unit shall not be used to provide power during a voluntarily 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; 17 CCR 93115.6(a); 40 CFR 60.4211 and 60.4219]

8. 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 204; 17 CCR 93115.6(a)]

9. 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.

[District Rule 204]

10. A facility wide Comprehensive Emission Inventory (CEI) Plan and Report 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]