



**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**

E007945

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 (SEA SITE 1) consisting of: An uncertified (tier 0) diesel engine manufactured in 1985:

One Caterpillar, Diesel fired internal combustion engine Model No. 3208 and Serial No. 93Z16899, Direct Injected, Turbo Charged, After Cooled, producing 160 bhp with 8 cylinders at 2200 rpm while consuming a maximum of 8.3 gal/hr. This equipment powers a Peerless Pump Model No. 5AEF11 and Serial No. 459064, rated at 1000 gpm.

**EMISSIONS RATES**

| Emission Type | Est. Max Load | Unit      |
|---------------|---------------|-----------|
| SOx           | 0.006         | gm/bhp-hr |

**CONDITIONS:**

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 63.6640(a) and Table 2c]

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

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.

[40 CFR 63.6625(f); 17 CCR 93115.10(d)]

3. This equipment shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the CA 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:

1. A minimum cetane index of 40; or,

2. A maximum aromatic content of 35 volume percent.

STATE AND DISTRICT ENFORCEABLE ONLY

[17 CCR 93115.5(a)]

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 20 hours per rolling consecutive twelve month period for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour rolling annual limit. Additional maintenance and testing time may be authorized if it is required by NFPA-25 ("Water-Based Fire Protection Systems Handbook, current edition) and approved in advance by the District.

STATE AND DISTRICT ENFORCEABLE ONLY

[17 CCR 93115.6(b)]

5. This unit shall be limited to emergency use only, as defined in 40 CFR 63.6640(f). 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 63.6640(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 required maintenance and inspection actions listed in condition #9 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 63.6655; 40 CFR 70.6(a)(3)(ii)(b)]

7. The owner/operator shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[40 CFR 63.6625(h)]

8. 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(c)(2); 40 CFR 63.6640(f)]

9. The owner/operator shall conduct inspections in accordance with the following schedule. All inspections must occur at least annually regardless of operating hours.

(a) Change oil and filter every 500 hours of operation or annually, whichever comes first, or use an oil change analysis program to extend oil change frequencies per the requirements in 40 CFR 63.6625(i);

(b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

(c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[40 CFR 63.6630(a), Table 2c; 40 CFR 63.6640(b); 40 CFR 63.6650(d)]

10. 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(b)]

11. This engine is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines Title 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ (RICE NESHAPs).  
[District Rule 204]

12. 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]