



**MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT**

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

**INACTIVE**

B008386

Inactive type Permit has no description information.

**EXPIRES LAST DAY OF: NOVEMBER 2015**

**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, GENERATOR (SOUTH RANGE) consisting of: A certified Tier I diesel engine manufactured in 2001, EPA Family 1CEXL0505ACE, with no exhaust after-treatment device installed. Exhaust flow is 1400 ACFM at 955 degrees Fahrenheit.

One Cummins, Diesel fired internal combustion engine Model No. 6CTA8.3-G2 and Serial No. 46138276, Direct Injected, Turbo Charged, After Cooled, Compression-Ignited, producing 252 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 12.6 gal/hr. This equipment powers a MQ Power Generator Model No. 431PSL6206 and Serial No. LM-238871-040, rated at 175 kW(e) at 480 v.

**EMISSIONS RATES**

Emission Type	Est. Max Load	Unit
CO	0.7	gm/bhp-hr
NOx	5.7	gm/bhp-hr
PM10	0.16	gm/bhp-hr
SOx	0.005	gm/bhp-hr
VOC	0.5	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.

Fee Schedule: 1 (c)

Rating: 252 bhp

SIC: 9711

SCC: 20100102

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

[40 CFR 63.6640(a), District Rule 204]

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.

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

3. This engine 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:
  1. A minimum cetane index of 40; or,
  2. A maximum aromatic content of 35 volume percent.

[17 CCR 93115.5(a) and 40 CFR 80.510(b)]

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

4. 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 shall include, at a minimum, the following information:

- a. Calendar year operation in terms of fuel consumption (in gallons or total hours) to ensure accurate Emission Inventory inputs;
- b. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log);
- c. Maintenance and repair actions performed;
- d. Copies of all notifications and reports required to comply with 40 CFR 63, subpart ZZZZ;
- e. Records of the occurrence and duration of each malfunction of operation or the (not currently installed) air pollution control and monitoring equipment;
- f. Records of all performance tests and evaluations; and
- g. Records of actions taken during periods of malfunction to minimize emissions in accordance with condition 1, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[40 CFR 63.6655(a)(5)].

This log shall be provided to District, State and Federal personnel upon request.

[40 CFR 63.6655(a) and 17 CCR 93115.10(f)]

5. 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)]

6. 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 NESHAP).

[District Rule 204]

7. 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.

The District must be notified within 5 working days of any exceedance of these maintenance intervals, noting the duration, cause, and corrective actions taken.

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

8. This engine shall be limited to a maximum CO emission rate of 230 parts per million, volume, dry (ppmvd) corrected to 15% O<sub>2</sub> using the procedures outlined in 40 CFR 63.6620. Furthermore, you must conduct an initial performance test to verify the CO emission rate prior to using this engine for normal operations.

[40 CFR 63.6620 and Table 2c(3), 40 CFR 63.6612, and 40 CFR 63.6595]

9. This engine is currently not in compliance with the Carbon Monoxide (CO) emission standards established in 40 CFR 63, subpart ZZZZ, the National Emissions Standards for Hazardous Air Pollutants for stationary Reciprocating Internal Combustion Engines (the RICE NESHAP). It is a violation to operate this engine for any reason other than authorized emissions testing without first installing a retrofit device capable of meeting those emission limits. A Title V Significant Permit Modification Request must be submitted to and adopted by the District prior to installing any control device.

[40 CFR 63.6620 and Table 2c(3), 40 CFR 63.6612, and 40 CFR 63.6595]

10. This engine is currently not in compliance with the emission standards established in 17 CCR 93115.7(b), the Airborne Toxic Control Measure for Stationary Compression Ignition Engines (the Stationary ATCM). It is a violation to operate this engine for any reason other than authorized emissions testing without first installing a retrofit device capable of meeting those emission limits. A permit modification request must be submitted to the District prior to installing any control device.

STATE AND DISTRICT ENFORCEABLE ONLY

[Title 17 CCR 93115.7(b) and 93115.13(f), District Rule 1320]

11. The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.

[District Rule 204]