



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

B013920

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: JUNE 2021

OWNER OF OPERATOR (Co.#2607)

Red-D-Arc
9082 Clairemont Mesa Blvd.
San Diego, CA 92123

EQUIPMENT LOCATION (Fac.#4026)

Red-D-Arc
NTC - Ft. Irwin
Barstow, CA 92310

Description:

DIESEL IC ENGINE, GENERATOR consisting of: A certified Tier 4 (Alt NOx) diesel engine, EPA Family BCEXL6.7AAF, manufactured in 2011, equipped with factory installed emission control devices. Exhaust flow is approximately 922 ACFM at 888 degrees Fahrenheit:

One Cummins, Diesel fired internal combustion engine Model No. QSB7-G7 and Serial No. 73331739, Direct Injected, Turbo Charged, Exhaust Gas Recirculation, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Electronic Control Module, Compression-Ignited, Periodic Trap Oxidizer, Charge Air Cooler, producing 256 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 12.2 gal/hr. This equipment powers a MQ Power Generator Model No. DCA150SSCU4I and Serial No. 7920065, rated at 150 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.04	gm/bhp-hr
NOx	1.04	gm/bhp-hr
PM10	0.0037	gm/bhp-hr
PM2.5	0.0037	gm/bhp-hr
SOx	0.0046	gm/bhp-hr
VOC	0.007	gm/bhp-hr

CONDITIONS:

1. This certified stationary compression-ignited internal combustion engine and it's associated emission control systems shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound

Fee Schedule: 1 (c)

Rating: 256 bhp

SIC: 7359

SCC: 20100102

Location/UTM(Km):
533E/3902N

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

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. This engine shall not be operated unless all of the following emission control systems are properly functioning:

- a. Diesel Oxidation Catalyst
- b. Electronic Control Module
- c. Exhaust Gas Recirculation System
- d. Periodic Trap Oxidizer

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.

[40 CFR 60.4211, District Rule 1302]

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:
 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. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

[Title 17 CCR 93115.10(d)]

5. This engine shall not operate for more than 3,000 hours in any consecutive twelve month period.

[District Rules 1302 and 1320]

6. The owner/operator must conduct inspections, whichever is the more frequent of, at least once every calendar quarter; or, after every 2,000 hours of engine operation. An inspection includes any testing, maintenance, and/or other procedures that ensure the Internal Combustion Engine is operated in strict accordance with the manufacturer's specifications and in continual compliance with the provisions of this rule. Each inspection must include the following:

- a. Date.
- b. Records of testing, as applicable.
- c. Records of maintenance.

[District Rule 1160(E)(1)(a)]

7. The owner/operator shall maintain an operations log for this engine 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 following information:

- a. Date of each maintenance action or repair on any equipment noted in Condition #2;
- b. Description of each maintenance action or repair on any equipment noted in Condition #2;
- c. Fuel sulfur concentration as required by condition #3 (you may use the supplier's certification of sulfur content if it is maintained as part of this log);
- d. Monthly and consecutive twelve month period operating hours as determined by the installed hour meter;
- e. Records of all inspections required by Condition 6;
- f. Results of any source testing conducted on the engine; and
- g. Records of all location changes noted in Condition #9.

[District Rules 1302 and 1160]

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 (NSPS). In the event of a conflict between these conditions and the ATCM or NSPS, the more stringent requirements shall govern.

[District Rule 1302]

9. This engine may be relocated throughout the NTC in support of operations without prior notification being sent to the District, but shall not be used within 500 meters of any K-12 school, residence, hospital, or other sensitive receptor. The date of all location changes and the new location's position (in decimal degrees of latitude and longitude to 5 decimal places) shall be recorded and kept on file.
[District Rules 204 and 1320]

10. A Calendar Year (January 1st through December 31st) emissions summary for all emitted criteria and toxic air pollutants must be submitted to NTC Ft Irwin (Attn: Air Program Manager, Bldg 602, 5th Street), for inclusion in their annual Comprehensive Emissions Inventory, no later than January 15th of each year.
[District Rules 107(b) and 1302, H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]