



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

B013363

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: FEBRUARY 2023

OWNER OF OPERATOR (Co. #2142)

Arena Event Services, Inc. dba Arena Americas
10861 South Howell Avenue
Oak Creek, CA 53154

EQUIPMENT LOCATION (Fac. #3903)

Arena Americas - NTC Fort Irwin
Building 6100, Barstow Road
Fort Irwin, CA 92310

Description:

DIESEL IC ENGINE, GENERATOR consisting of: A certified Tier 4f diesel engine, EPA Family JSZXL15.7QXB, manufactured in 2018, equipped with factory installed emission control devices. Exhaust flow is approximately 1635 ACFM at 968 degrees Fahrenheit through a 7.5 foot high by 6 inch diameter stack:

Onelsuzu, Diesel fired internal combustion engine Model No. BQ-6WG1X and Serial No. 6WG1-628567, Ammonia Oxidation Catalyst, Charge Air Cooler, Compression-Ignited, Diesel Oxidation Catalyst, Direct Injected, Electronic Control Module, Exhaust Gas Recirculation, Exhaust Gas Recirculation, Selective Catalytic Reduction, Selective Catalytic Reduction, Turbo Charged, producing 512 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 22.5 gal/hr. This equipment powers a MQ Power Whisper watt Generator Model No. DCA400SSI4F and Serial No. 3929836, rated at 320 kW(e).

EMISSIONS RATES

| Emission Type | Est. Max Load | Unit |
|---------------|---------------|-----------|
| CO | 0.001 | gm/bhp-hr |
| NOx | 0.11 | gm/bhp-hr |
| PM10 | 0.015 | gm/bhp-hr |
| PM2.5 | 0.015 | gm/bhp-hr |
| SOx | 0.004 | gm/bhp-hr |
| VOC | 0.015 | gm/bhp-hr |

CONDITIONS:

1. This certified stationary compression-ignited internal combustion engine and its 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: 512 bhp SIC: 7359 SCC: 20100102 Location/UTM(Km): 498E/3862N

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**
Brad Poiriez
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); District Rule 1302]

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. SCR Catalyst
- e. Ammonia Oxidation Catalyst

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 6,000 hours in any consecutive 12 month period.

[District Rules 1302, 1303, and 1320]

6.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. Monthly and consecutive 12 month period hour meter readings, including the dates of all monthly readings;
- b. Date of each maintenance action or repair on any equipment noted in Condition #2;
- c. Description of each maintenance action or repair on any equipment noted in Condition #2;
- d. 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);
- e. Calendar year operating hours as determined by the installed hour meter (to assist in CEI calculations); and
- f. Results of any source testing conducted on the engine.

[17 CCR 93115; District Rule 1302]

7.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]

8.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. As this engine directly supports the U.S. Army's base-wide operations, all CEI data is to be sent to NTC Ft Irwin's Air Program Manager for inclusion in their base-wide CEI, with a copy being provided to the District.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]