



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

B013749

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: JUNE 2021

OWNER OF OPERATOR (Co.#1535)

Boeing Company - Victorville Ops
18200 Phantom West, Ste 678-2
Victorville, CA 92394-7911

EQUIPMENT LOCATION (Fac.#3189)

Boeing - SCLA Bldg 717
18368 Readiness Street, Bldg 717
Victorville, CA 92394-7911

Description:

DIESEL IC ENGINE, PORTABLE GENSET (UNIT ID 800-11-9359), BOEING 737 MAX 8 RTS PROJECT consisting of: A certified Tier 4f diesel engine, EPA Family GSZXL05.2RXB, manufactured in 2016 and equipped with factory-installed emission controls. Exhaust flow is approximately 1307 ACFM at 990 degrees Fahrenheit through a 4 foot tall by 4 inch diameter stack:

One Isuzu, Diesel fired internal combustion engine Model No. BR-4HK1X and Serial No. 4HK1-740646, Direct Injected, Turbo Charged, Selective Catalytic Reduction, Exhaust Gas Recirculation, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Electronic Control Module, Compression-Ignited, Selective Catalytic Reduction, Ammonia Oxidation Catalyst, Charge Air Cooler, producing 170.8 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 8.04 gal/hr. This equipment powers a MQ Power Generator Model No. DCA125 and Serial No. 7511301, rated at 125 kVA / 100 kW(e).

EMISSIONS RATES

| Emission Type | Est. Max Load | Unit |
|---------------|---------------|-----------|
| CO | 0.075 | gm/bhp-hr |
| NOx | 0.089 | gm/bhp-hr |
| PM10 | 0.0145 | gm/bhp-hr |
| PM2.5 | 0.0145 | gm/bhp-hr |
| SOx | 0.0046 | gm/bhp-hr |
| VOC | 0.0075 | 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

Fee Schedule: 1 (b)

Rating: 170 bhp

SIC: 3721

SCC: 20100102

Location/UTM(Km):
473E/3956N

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.

Boeing Company - Victorville Ops
4000 Lakewood Blvd.

Long Beach, CA 90808

By: **COPY**

Brad Poiriez

Air Pollution Control Officer

noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 1302]

2. This unit shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) per CARB Diesel or equivalent requirements; or alternative diesel fuel or CARB diesel fuel utilizing fuel additives that has been verified through the Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines.
[Title 17 CCR 93116.3(a)]

3. This engine shall not operate outside of the areas noted in Condition #7 without prior written authorization from the District. Furthermore, this engine and its associated equipment cannot be operated at the same location for more than 365 consecutive days. This system must be moved for a valid business purpose annually.
[Title 17 CCR 93116.2(bb)] [District Rules 1302, 1303, and 1320]

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 93116.4(c)(2)(A)]

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

- a. Ammonia Oxidation Catalyst;
- b. Diesel Oxidation Catalyst;
- c. Exhaust Gas Recirculation System;
- d. Electronic Control Module; and
- e. Selective Catalytic Reduction System;

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.
[District Rule 1302]

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. Initial hour meter reading upon arrival at the facility and final hour meter reading upon departure from the facility;
- b. Weekly, monthly and calendar year operation in terms of fuel consumption (in gallons) or total hours; and,
- c. Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log).

[Title 17 CCR 93116.4(c)]

7. All generators operating within the main ramp Max 8 storage area or the outer Max 8 storage area shall have a maximum Diesel Particulate Matter emission factor of no more than 0.015 g/bhp-hr and a maximum horsepower rating of 171 bhp. The main ramp Max 8 storage area is defined as the two rectangular areas bounded by the following points (given in decimal degrees Latitude and Longitude):
Area 1: a. +34.58833, -117.37750; b. +34.58921, -117.37645; c. +34.58835, -117.37532; d. +34.58745, -117.37642
Area 2: a. +34.59024, -117.37524; b. +34.59128, -117.37397; c. +34.59017, -117.37254; d. +34.58911, -117.37380
The outer Max 8 storage area is approximately defined as the concrete and asphalt portions west of Runway 17/35 bounded by the following points (given in decimal degrees Latitude and Longitude): a. +34.59020, -117.39399; b. +34.58854, -117.39150; c. +34.58808, -117.39016; d. +34.58755, -117.38928; e. +34.58725, -117.38924; f. +34.58673, -117.38940; g. +34.58824, -117.39185; h. +34.58969, -117.39398.
[District Rules 1302 and 1320]

8. The only generators authorized to operate in the storage areas defined in Condition #7 are the following District permitted generators: B013747, B013748, and B013749.
[District Rules 1302 and 1320]

9. The total combined annual operating time for all three generators noted in condition #8 shall not exceed 6,210 hours.
[District Rules 1302 and 1320]

10. In the event that this engine needs to be replaced, the replacement engine cannot have a higher maximum rated bhp of this engine

nor have a higher DPM emission factor than 0.015 g/bhp-hr. Furthermore, the District is to be notified via email at engineering@mdaqmd.ca.gov within 48 hours of any equipment replacements. The information required to be in the notification shall include the following:

- a. Date of replacement;
- b. Beginning and Final engine hour meter reading of this unit;
- c. Make, model, and serial number of the replacement engine;
- d. USEPA Family Name of the replacement engine;
- e. Maximum rated power output of the replacement engine, in bhp; and
- f. Starting hour meter reading of the replacement engine.

[District Rules 1302 and 1320]

11. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Portable Compression Ignition Engines (Title 17 CCR 93116). In the event of conflict between these conditions and the ATCM, the more stringent requirements shall govern.
[Title 17 CCR 93116, District Rule 1302]

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]

13. Upon completion of the 737 Max 8 storage project, the owner shall notify the District to update the above conditions to allow continued portable operation within the District.

[District Rule 1302]