



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

AUTHORITY TO CONSTRUCT

B015138

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: MARCH 2027

OWNER OF OPERATOR (Co.#2087)

Exquadrum, Inc.
13313 Sabre Blvd., Suite 1
Victorville, CA 92394

EQUIPMENT LOCATION (Fac.#4205)

Exquadrum - Victorville
13490 Forge Street
Victorville, CA 92392

Description:

DIESEL IC ENGINE, PORTABLE GENERATOR consisting of: A certified Tier 3 diesel-fueled engine, EPA Engine Family ACEXL019.AAD. Engine Exhaust Flow is 1033 cfm at 945 Degrees F. Stack height is TBD feet high and Stack Diameter is TBD inches. Equipment elevation is 2829 feet above sea level.

One Cummins, Diesel fired internal combustion engine Model No. QSM11-G4 and Serial No. TBD, Turbo Charged, Exhaust Gas Recirculation, Exhaust Gas Recirculation, Compression-Ignited, Charge Air Cooler, producing 470 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 19.8 gal/hr. This equipment powers a Stamford Generator Model No. TBD and Serial No. TBD, rated at 270 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	2.6	gm/bhp-hr
NOx	2.83	gm/bhp-hr
PM10	0.150	gm/bhp-hr
PM2.5	0.149	gm/bhp-hr
SOx	0.004	gm/bhp-hr
VOC	0.150	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (a)

Rating: 1 bhp

SIC: 8733

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.

Exquadrum, Inc.
13313 Sabre Blvd., Suite 1
Victorville, CA 92394

By: **COPY**
Eldon Heaston
Air Pollution Control Officer

1. This certified portable 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 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.
[District Rule 1302]

2. This engine shall not be operated unless all manufacturer-installed emission control systems are properly functioning. Furthermore, no changes shall be made to any of the emissions control systems unless done so by a factory certified technician.
[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); 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 93116.4(b)(2)(A)]

5. This engine shall not operate more than 8 hours per day defined as any 24 hour period, and no more than 2,500 hours per year defined as any period of 365 consecutive days. These hour limitations are imposed to preclude a high health risk to nearby receptors.
[District Rule 1320]

6. The owner/operator shall maintain an operations and inspection 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;

b. Location of each use (decimal degrees, xx.xxxxx, -yyy.yyyyy);

c. Daily, Monthly, and 12 month rolling consecutive total hours of operation, as indicated by the hour meter readings;

d. Records of all inspection, maintenance and/or repair actions performed on the engine, including date and description;

e. 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).

[District Rules 1302 and 1320; 17 CCR 93116]

7. This engine shall not be used within 1000 feet of any K-12 school, residence, hospital, or other sensitive receptor location. Sensitive receptor locations include, but are not limited to, hospitals, schools, and day care centers, and such other locations as the District board or California Air Resources Board may determine.

[District Rule 1320 and H&S Code 42705.5(a)(5)]

8. This diesel ICE and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. This system must be moved for a valid business purpose annually.

[District Rules 1302, 1303, and 1320; Title 17 CCR 93116.2(a)(29)]

9. This USEPA Tier 3 certified engine manufactured after January 1, 2009, operating as part of a Small Fleet, may not be operated in California on or after January 1, 2029 unless this engine meets one of the following:

a. The engine has been designated as low-use, in accordance with Title 13 CCR 2453(p); or

b. The engine has been designated as emergency, in accordance with Title 13 CCR 2453(p); or

c. The engine has been equipped with a properly functioning level-3 verified technology.

[Title 17 CCR 93116.3(c)(1)(A) and 93116.3(c)(3) and 93116.3(c)(4)]

In order to designate this engine as low-use or emergency, the owner/operator must submit an application to the District to modify this permit, in addition to submitting a modification to CARB via PERP Form 20 (Application for a Correction or Modification to an Existing Registration) according to the provisions of Title 13 CCR 2453(p).

"Level-3 Verified Technology" means a technology that has satisfied the requirements of the "Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines" in title 13, Cal. Code Regs., commencing with section 2700, and has demonstrated a reduction in diesel particulate matter of 85 percent or greater. In order to install a level-3 technology, the owner/operator must submit an application to the District to modify this permit.

10. This USEPA Tier 3 certified engine manufactured after January 1, 2009, operating as part of a Small Fleet, may not be sold, or offered for sale, to an end user in California on or after January 1, 2029. The sale of engines for resale outside of California is not prohibited.

[Title 17 CCR 93116.3(e)]

11. This engine is subject to the requirements of the Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower or Greater (17 CCR 93116). In the event of conflict between these conditions and the ATCM, the more stringent shall govern.

[17 CCR 93116]

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]