



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

PERMIT TO OPERATE

B011382

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

EXPIRES LAST DAY OF: JULY 2026

OWNER OF OPERATOR (Co.#753)

Crawford Associates
2635 E Chanslorway Ave
Blythe, CA 92225

EQUIPMENT LOCATION (Fac.#1476)

Crawford Associates - Chanslorway
2635 E Chanslorway Ave
Blythe, CA 92225

Description:

DIESEL IC ENGINE, GENERATOR consisting of: Year of Mfg 2011, USEPA Family Name BPKXL04.4NJ1, Tier III, stack height 8'9", stack diameter 5", exhaust temperature 975 degrees Fahrenheit, exhaust flow rate 572 cfm. This engine is vented to a Johnson Matthey CRT (+) diesel particulate filter, Model No. 1A-N-EI-SS-5, Serial No. 11200275-1. This engine is equipped with a Avatron load bank, Model No. K711, Serial No. K711480-P-28-26-B2D-G,K

One Caterpillar, Diesel fired internal combustion engine Model No. C4.4 and Serial No. CAT00C44EDB02148, Direct Injected, Turbo Charged, After Cooled, Ignition Retarded, producing 156.9 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 7.0 gal/hr. This equipment powers a Caterpillar Generator Model No. LC3024B and Serial No. N3R01722, rated at 100 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	1.35	gm/bhp-hr
NOx	2.3588	gm/bhp-hr
PM10	0.015	gm/bhp-hr
SOx	0.0042	gm/bhp-hr
VOC	0.4163	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (c)

Rating: 156.9 bhp

SIC: 3272

SCC: 20100102

Location/UTM(Km):
725E/3273N

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.

Crawford Associates
P.O. Box 807
Blythe, CA 92225

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

1. This certified, stationary, compression-ignited, internal combustion engine and control devices shall be installed, operated and maintained in strict accord 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.

[40 CFR 60.4211(a) - Subpart IIII - NSPS for Stationary Compression Ignition ICE]

2. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per CARB Diesel or equivalent requirements.

[17 CCR 93115, ATCM for Stationary Compression Engines and 40 CFR 80.510, Standards and Marker Requirements for NRLM diesel fuel]

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

[17 CCR 93115, ATCM for Stationary Compression Engines and 40 CFR 60.4209(a), Subpart IIII - NSPS for Stationary Compression Ignition ICE]

4. The owner/operator shall maintain a operations log for this unit 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 information specified below:

a. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,

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).

[17 CCR 93115, ATCM for Stationary Compression Engines]

5. The Diesel Particulate Matter (DPM) emission rate from this diesel ICE shall comply with one of the following:

a. 0.01 grams DPM per brake horsepower-hour, or less [Title 17 CCR \S93115.7(a)]; or,

b. A certified engine rated of 0.15 grams DPM per brake horsepower-hour, or less and install a verified control device with a diesel PM efficiency of 85% or more. [Title 17 CCR \S 93115.13(f)]

6. The hydrocarbon (HC), oxides of nitrogen (NOx), non-methane hydrocarbons plus NOx (NMHC+NOx) and carbon monoxide (CO) emissions from this diesel ICE must comply with the Emission Standards for New Stationary Prime Diesel-Fueled CI Engines pursuant to 17 CCR \S93115.7(a).

7. The following sources of data may be used in whole or part to demonstrate compliance with the emissions standards or requirements of conditions 5 and 6:

(a) off-road engine certification test data for the stationary diesel-fueled CI engine,

(b) engine manufacturer test data,

(c) emissions test data from a similar engine,

(d) emissions test data used in meeting the requirements of the Verification Procedure for the emission control strategy implemented, or

(e) An alternative compliance demonstration as described in section 93115.13(f).

[17 CCR \S 93115.13 (a)]

8. The owner/operator shall install, operate and maintain the Johnson Matthey CRT (+) diesel particulate filter (DPF) on this engine in accordance with California Air Resources Board (CARB) Executive Order DE-08-009-03.

[17 CCR \S 93115.13 (f)]

9. Diesel particulate filter shall be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

[17 CCR \S93115.10(d)]

10. This permit unit shall not emit more than 14.9 tons per year of PM10, nor 24.9 tons per year of NOx.

[District Rule 1303 - NSR Requirements]

In addition, this facility shall not emit more than 99.9 tons per year of PM10.

[District Regulation XII - Federal Operating Permits]

11. Total emissions of Federal Hazardous Air Pollutants or HAPs (as listed in Section 112(b) of the Federal Clean Air Act, see <http://www.epa.gov/ttn/atw/orig189.html>) from this facility shall not exceed 9.9 tons per year for any single HAP and 24.9 tons per year for any combination of HAPs.

[District Rule 1320 - NSR for TACs]

12. This facility must submit facility-wide, accurate annual comprehensive emissions inventory data that includes all emissions from permitted, non-permitted and fugitive (roadways, stockpiles, exposed areas, etc.) to the District, in a format approved by the District, within 45 days upon request.

13. This equipment is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (17 CCR 93115) and 40 CFR Part 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (NSPS). In the event of conflict between these conditions, the ATCM, and/or the NSPS, the most stringent requirements shall govern.