



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

B013111

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: JUNE 2020

OWNER OF OPERATOR (Co.#2412)

Kiewit Infrastructure West Co.
2200 Columbia House Blvd.
Vancouver, WA 98661

EQUIPMENT LOCATION (Fac.#3805)

Kiewit Infrastructure West Co.
State Route 58 & Highway 395
Boron, CA 93516

Description:

DIESEL IC ENGINE, GENERATOR #2 PREVIOUSLY PERMITTED AS B013032 WHICH IS CANCELLED consisting of: PERP Registration Number is 180018. Engine is a certified Tier 4 Final diesel engine, EPA Family JCPXL18.1HTH, CARB Executive Order U-R-001-0545, Model Year is 2018. Stack is 6.07 (est) meters high, with a 0.19 (est) meter diameter; Exhaust Temperature Estimated at 900.7 Degrees F (756 Kelvin); Flow Rate is Estimated at 3725.7 CFM (105.5 cubic meters-). Facility elevation is 2463 foot above sea level.

One Caterpillar, Diesel fired internal combustion engine Model No. C18 and Serial No. CM800163, Direct Injected, Turbo Charged, Selective Catalytic Reduction, Exhaust Gas Recirculation, Exhaust Gas Recirculation, Oxidation Catalyst, Periodic Trap Oxidizer, Selective Catalytic Reduction, Ammonia Oxidation Catalyst, Charge Air Cooler, Engine/Powertrain Control Module, producing 778 bhp with 8 cylinders at 1800 rpm while consuming a maximum of 29.46 gal/hr. This equipment powers a Generator Model No. XQ57 and Serial No. ME500105, rated at 569 KVP.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.007	gm/bhp-hr
NOx	0.075	gm/bhp-hr
PM10	0.007	gm/bhp-hr
PM2.5	0.007	gm/bhp-hr
SOx	0.003	gm/bhp-hr
VOC	0.015	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (c) Rating: 778 bhp SIC: 3273 SCC: 20100102 Location/UTM(Km): 451E/3873N

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

1. This certified Tier 4 Final 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 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 engine systems are properly functioning:

- a. Electronic Direct Injection
- b. Turbocarger
- c. Charge Air Cooler
- d. Engine Control Module
- e. Oxidation Catalyst
- f. Selective Catalytic Reduction-Urea
- g. Exhaust Gas Recirculation
- h. Periodic Trap Oxidizer
- i. Ammonia Oxidation Catalyst

Furthermore, no changes shall be made to any of the above 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, and 40 CFR 60.4207(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.

[17 CCR 93115.10(d)(1) and 40 CFR 60.4209(a)]

5. The owner/operator shall maintain an 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. Daily hour meter reading when engine is started and daily hour meter when engine is shut down;
- b. Calendar year operation in terms of total hours;
- c. Fuel used by Engine, including weekly, monthly and calendar year totals;
- d. Fuel sulfur concentration (may use the fuel supplier's certification of sulfur content if it is maintained as part of this log).

[17 CCR 93115, District Rules 1302 and 1320]

6. 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]

7. This facility has the potential to emit NO_x at levels that are close to the Districts Major source threshold of 25 tons per year. As such this facility is a Federally Reportable Facility and shall NOT emit criteria pollutants in quantities that exceed the following Limits:

PM-10; shall not exceed 14.9 TPY

NO_x; shall not exceed 24.9 TPY

SO_x; shall not exceed 24.9 tpy

VOC's; shall not exceed 24.9 tpy

[District Rules 204 and 1303]

8. This facility is considered temporary and the associated Health Risks have been determined accordingly, therefore, the

owner/operator shall notify the District via e-mail, facility name, contact, startup, and project completion information, as a minimum. This e-mail this information to Reporting@mdaqmd.ca.gov.
[District Rule 1320]

9. 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]