



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

B015075

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: JUNE 2025

OWNER OF OPERATOR (Co. #1021)

SBCo Solid Waste Management
222 West Hospitality Lane, 2nd Floor
San Bernardino, CA 92415-0017

EQUIPMENT LOCATION (Fac. #3122)

SBCo - Landfill/Barstow
32553 Barstow Road
Barstow, CA 92311

Description:

DIESEL IC ENGINE, GENERATOR consisting of: A Certified Tier 4 Final diesel engine, USEPA family PPKXL04.4MU1 manufactured in 2023. Exhaust flow approximately 589.76 acfm, at 883.58 degrees Fahrenheit through a 6.1 feet high by 0.33 feet diameter exhaust stack. Equipment is located at an elevation of 2959 feet above MSL.

One Perkins (CAT), Diesel fired internal combustion engine Model No. C4.4 and Serial No. TBD, Charge Air Cooler, Diesel Exhaust Fluid (DEF) Tank, Diesel Oxidation Catalyst, Electronic Control Module, Selective Catalytic Reduction, Selective Catalytic Reduction, Turbo Charged, producing 174 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 7.5 gal/hr. This equipment powers a Caterpillar Generator Model No. XQ125 and Serial No. TBD, rated at 100 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.022	gm/bhp-hr
NOx	0.206	gm/bhp-hr
PM10	0.0147	gm/bhp-hr
PM2.5	0.01456	gm/bhp-hr
SOx	0.0041	gm/bhp-hr
VOC	0.00735	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (b) Rating: 174 bhp SIC: 4953 SCC: 20100101 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.

SBCo Solid Waste Management
222 West Hospitality Lane, 2nd Floor
San Bernardino, CA 92415

By: **COPY**
Brad Poiriez
Air Pollution Control Officer

1.This certified Tier 4 final stationary compression-ignited internal combustion engine and its associated control device (SCR) 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 Rules, 1160, 1302; 40 CFR 60.4211(a)]

2.A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[District Rule 1160, Title 17 CCR 93115.10(d)]

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 1090.305]

Note: Use of CARB certified ULSD fuel satisfies the above requirements.

4.The owner/operator shall maintain an operations log for this engine 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 following information:

a. Records of all inspection, maintenance and/or repair actions performed on the engine or associated air pollution control equipment, including date and description;

b. Fuel sulfur concentration as required by condition #3 (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log);

c. Quarterly operating hours on a calendar quarter basis as determined by the installed hour meter; and,

d. Quarterly fuel use on a calendar quarter basis.

[District Rules 1160, 1302 and 1320; 17 CCR 93115.10(f)]

5.The owner or operator of this Internal Combustion Engine shall Conduct inspections, whichever is the more frequent of, at least once every calendar quarter; or, after every 2,000 hours of engine operation. An inspection includes any testing, maintenance, and/or other procedures that ensure this Internal Combustion engine is operated in strict accordance with the manufacturer's specifications and in continual compliance with the provisions of this rule.

[District Rule 1160 (E)(1)(a)]

6.This engine is subject to the requirements of District Rule 1160 - Internal Combustion Engines, 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 Rule 1160, the ATCM or NSPS, the more stringent requirements shall govern.

[District Rule 1302]

7.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]