



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

E015339

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: MAY 2026

OWNER OF OPERATOR (Co.#3031)

California Department of Technology
P.O. Box 1810
Rancho Cordova, CA 95741

EQUIPMENT LOCATION (Fac.#4589)

California Department of Technology - Blythe
13241 Neighbours Blvd.
Blythe, CA 92225

Description:

DIESEL IC ENGINE, EMERGENCY GENERATOR consisting of: A Certified Tier 3 diesel engine, USEPA family SKHXL03.4TCG, manufactured in 2025. Exhaust flow approximately 406 acfm, at 880 degrees Fahrenheit through a 4.81 foot high by 2.5 inches diameter exhaust stack. Equipment is located at an elevation of 257 feet above MSL.

One Rehlko, Diesel fired internal combustion engine Model No. KDI 3404TCR and Serial No. TBD, Turbo Charged, Exhaust Gas Recirculation, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Electronic Control Module, Four-Stroke Lean Burn, Compression-Ignited, producing 94 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 4.8 gal/hr. This equipment powers a Rehlko Generator Model No. 60REOZK and Serial No. TBD, rated at 60 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.0149	gm/bhp-hr
NOx	1.864	gm/bhp-hr
PM10	0.0224	gm/bhp-hr
PM2.5	0.0221	gm/bhp-hr
SOx	0.0049	gm/bhp-hr
VOC	0.0075	gm/bhp-hr

CONDITIONS:

Fee Schedule: 7 (g)

Rating: 1 device

SIC: 9199

SCC: 20100102

Location/UTM(Km):
717E/3721N

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**
Eldon Heaston
Air Pollution Control Officer

1. This certified Tier 3 stationary compression-ignited internal combustion engine, and any associated air pollution control equipment, 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)]

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

[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:

(i) A minimum cetane index of 40; or,

(ii) A maximum aromatic content of 35 volume percent.

[17 CCR 93115.5(a), 40 CFR 60.4207(b) and 40 CFR 1090.305]

Note: Use of CARB certified ULSD fuel satisfies these requirements.

4. This engine shall be limited to use for emergency power, defined as in response to a fire or flood, or when commercially available power has been interrupted. In addition, this engine shall be operated no more than 50 hours per year for testing and maintenance.

[District Rule 1303(A); 17 CCR 93115.6(a)(3)(A)(1)(c)]

5. The owner/operator shall maintain an operations log for this equipment 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/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:

a. Date(s) of each use and hours of operation;

b. Reason for use (regular testing & maintenance, NFPA testing & maintenance, emergency, etc.);

c. Monthly and rolling 12 month period operation in terms of fuel consumption (in gallons) and/or total hours (both emergency and non-emergency use, classified as described in b. above);

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

e. Maintenance performed on this equipment.

[17 CCR 93115.10(f)]

6. This equipment may operate in response to an impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time. The engine may be operated no more than 30 minutes prior to the forecasted outage and must be shut down immediately after the utility advises that the outage is no longer imminent or in effect.

[17 CCR 93115.6(a)(2)]

7. This equipment shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.

[17 CCR 93115.6(c)(1)(C)]

8. 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]

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; 17 CCR 93400 et seq.; and 40 CFR 51, Subpart A]