



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

E014722

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: FEBRUARY 2026

OWNER OF OPERATOR (Co. #2896)

Apple Valley Foothill County Water District
22545 Del Oro Road
Apple Valley, CA 92308

EQUIPMENT LOCATION (Fac. #4311)

Apple Valley Foothill County Water District
District Wide
MDAQMD, CA 92392

Description:

DIESEL IC ENGINE, PORTABLE, EMERGENCY GENERATOR consisting of: A certified Tier 1 diesel engine, EPA Family WNVXL0530BNB, CARB EO U-R-12-21, manufactured in 1998. Exhaust flow approximately 1572 acfm, at 982 degrees Fahrenheit through a 12 foot high by 0.33 foot diameter exhaust stack. The engine will operate in a various locations within the Mojave Desert Air Quality Management District.

One Perkins, Diesel fired internal combustion engine Model No. 1306-9 TAG1 and Serial No. D0089D-007, Turbo Charged, Direct Injected, producing 300 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 14 gal/hr. This equipment powers a Perkins Generator Model No. TBD and Serial No. TBD, rated at TBD.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.50	gm/bhp-hr
NOx	3.90	gm/bhp-hr
PM10	0.10	gm/bhp-hr
PM2.5	0.10	gm/bhp-hr
SOx	0.0045	gm/bhp-hr
VOC	0.10	gm/bhp-hr

CONDITIONS:

Fee Schedule: 7 (a) Rating: 1 device SIC: 4941 SCC: 20200101 Location/UTM(Km): 484E/3812N

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.

Apple Valley Foothill County Water District
22545 Del Oro Road
Apple Valley, CA 92308

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

1.This certified portable diesel internal combustion engine 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 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]

1.This equipment 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 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 63.6640(a) and Table 6; Rule 204]

2.This diesel ICE and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days, excluding time spent at a designated storage site. This generator must be moved to another facility annually for a valid operational reason.
[District Rule 1320; Title 17 CCR 93116.2(a)(29)]

2.A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.
[Title 17 CCR 93115.10(d); 40 CFR 63.6625(f)]

3.This engine 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 60.4207(b) and 40 CFR 1090.305]

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

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 80.510(b), and 40 CFR 60.4207(b)]

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

4.This unit shall be limited to emergency use only, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 9 hours per day [BACT NOx] nor 20 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour per year limit. Additional maintenance and testing time may be authorized if required by NFPA-25 ("Water-Based Fire Protection Systems Handbook, current edition) and approved in advance by the District
[17 CCR 93115.6(b)]

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.In order to maintain this designation, this engine may be used only during an emergency or emergency event as described in condition 8. Emergency use is not limited; however, all non-emergency use (testing and maintenance) is limited to no more than 5 hours per day (midnight to midnight) and no more than 16 hours per calendar year.
[District Rule 1320; Title 17 CCR 93116]

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. Date of each use and duration of each use (in hours per hour meter);
 - b. Reason for use (testing & maintenance, emergency, required emission testing);
 - c. Calendar year operation in terms of fuel consumption (in gallons or total hours);
 - d. Records of all required maintenance and inspection actions listed in condition #9 and,
 - e. Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log).
- [17 CCR 93115.10(f)]

6.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. Date of each use;
- b. Location of each use;
- c. Duration of each use (in hours as indicated by the hour timer);
- d. Reason for each use (testing & maintenance, emergency, required emission testing);
- e. Calendar year operation in terms of fuel consumption (in gallons) or total hours; and,
- f. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

[Title 17 CCR 93116]

6.The owner/operator shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[40 CFR 63.6625(h)]

7.This USEPA Tier 1 certified engine may not be sold, or offered for sale, to an end user in California after 1/1/2020. The sale of engines for resale outside of California is not prohibited.

[Title 17 CCR 93116.3(e)]

7.This unit shall not be used to provide power during a voluntarily 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)(2); Rule 204]

8.This equipment shall be limited to use for "Emergency" situations or "Emergency Events". An "Emergency Event" refers to a situation arising from a sudden and reasonably unforeseen natural disaster such as an earthquake, flood, fire, or other unforeseen event that requires the use of portable engines to help alleviate the threat to public health and safety. In addition an "Emergency" means providing electrical power or mechanical work during any of the following events and subject to the following conditions:

- a. The failure of a facility's internal power distribution system and/or the failure or loss of all or part of normal electrical power service or normal natural gas supply to the facility caused by any reason other than the enforcement of a contractual obligation the owner/operator has with a third party or any other party;
- b. The pumping of water or sewage to prevent or mitigate a flood or sewage overflow;
- c. The pumping of water for fire suppression or protection;
- d. The pumping of water to maintain pressure in the water distribution system the reasons of pipe break, or high demand on water supply system due to high use of water for fire suppression;
- e. The breakdown of electric-powered pumping equipment at sewage treatment facilities or water delivery facilities;
- f. The training of personnel in the use of portable equipment for emergency purposes.

[Title 17 CCR 93116.2(a)(12)and(13)]

8.This engine is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines Title 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ (RICE NESHAPs).

[Rule 204]

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

[Title 17 CCR 93116]

9.The owner/operator shall conduct inspections in accordance with the following schedule. All inspections must occur at least annually regardless of operating hours.

a. Change oil and filter every 500 hours of operation or annually, whichever comes first, or use an oil change analysis program to extend oil change frequencies per the requirements in 40 CFR 63.6625(i);

b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

The District must be notified within 5 working days of any exceedance of these maintenance intervals, noting the duration, cause, and corrective actions taken.

[40 CFR 63.6630(a) and Table 2d, 40 CFR 63.6640(b), and 40 CFR 63.6650(d)]

10.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]

10.This engine may operate in response to notification of 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 is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.

[17 CCR 93115.6(b)]

11.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]