



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

E012423

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: NOVEMBER 2026

OWNER OF OPERATOR (Co.#453)

Victor Valley Wastewater Reclamation Authority
20111 Shay Road
Victorville, CA 92394

EQUIPMENT LOCATION (Fac.#3407)

VVWRA - Apple Valley Plant
21060 Otoe Road
Apple Valley, CA 92307

Description:

NATURAL GAS IC ENGINE, EMERGENCY GENERATOR consisting of: A Caterpillar model G3516C natural gas fueled IC engine manufactured in 2015, with a maximum horsepower rating of 2,175 bhp and a maximum fuel flow of 16,140 scfh. This engine is equipped with a BACT-Aid model BA-OX-1Y-2850-35 Oxidation Catalyst. Exhaust flow is 11,703 acfm at 858 degrees Fahrenheit through a 22 foot tall stack measuring 1.33 feet in diameter.

One Caterpillar, NG fired internal combustion engine Model No. G3516C and Serial No. CATG3516CN6R00152, Turbo Charged, After Cooled, Air-To-Fuel Ratio Controller, Electronic Control Module, Oxidation Catalyst, Spark-Ignited, producing 2175 bhp with 16 cylinders at 1800 rpm while consuming a maximum of 16140 scf/hr. This equipment powers a Caterpillar Generator Model No. SR4B and Serial No. 7TN05639, rated at 1500 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.65	gm/bhp-hr
NOx	1.00	gm/bhp-hr
PM10	0.05	gm/bhp-hr
SOx	0.02	gm/bhp-hr
VOC	0.13	gm/bhp-hr

CONDITIONS:

Fee Schedule: 7 (g)

Rating: 1 device

SIC: 4952

SCC: 20100202

Location/UTM(Km):
482E/3820N

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.

Victor Valley Wastewater Reclamation
Authority
P.O. Box 370
Adelanto, CA 92301

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

1. This certified, stationary, spark-ignited, internal combustion engine, its Air-to-Fuel Ratio Controller, and its associated oxidation catalyst 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 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, Section 60.4243; District Rule 1302]

2. This engine shall be fired on PUC-Regulated quality natural gas with a nominal sulfur content of 17ppmw fuel only.
[40 CFR 60.4243]

3. 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 1302]

4. This unit shall be operated no more than 100 hours per year for testing and maintenance.
[40 CFR 60.4243]

5. The o/o shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of two (2) 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. Date of each use and duration of each use (in hours);
 - b. Reason for use (testing & maintenance, emergency, required emission testing);
 - c. Calendar year operation in terms of fuel consumption (in standard cubic feet or gallons) or total hours; and
 - d. Maintenance and Repair actions on the engine, the Air to Fuel Ratio controller, and the Oxidation catalyst.
- [40 CFR 60.4245]

6. The Air-to-Fuel Ratio Controller shall be used in conjunction with the operation of the oxidation catalyst, and shall be maintained and operated appropriately to ensure proper operation of the engine and control device to minimize emissions at all times.
[40 CFR 60.4243]

7. This unit 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.
[District Rule 1302]

8. This engine may operate in response to notification of impending involuntary 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.
[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.
[Rule 107(b), HSC 39607 and 44341-44342, 40 CFR 51, Subpart A]