



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

B008967

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: OCTOBER 2025

OWNER OF OPERATOR (Co. #31)

Southern California Gas Co. - MD
9400 Oakdale Avenue
Chatsworth, CA 91313

EQUIPMENT LOCATION (Fac. #69)

SCG - No Needles Compressor Station
4500 Needles Highway
Needles, CA 92363

Description:

NATURAL GAS IC ENGINE, GENERATOR (Gen 2) consisting of: Engine is equipped with a Non-Selective Catalytic Reduction (NSCR) emission control device manufactured by Woodward E3, four stroke rich burn (4SRB); Engine is subject to RICE NESHAP Requirements of 40 CFR 63 Subpart ZZZZ 40 CFR 63 Subpart ZZZZ for an Engine greater than 100 BHP and less than 300 bhp located at a HAP Major Source. Facility elevation is 563 feet above sea level. Stack height is 25.7 feet, and stack diameter is 0.5 feet. Stack exhausts at 927 cfm at a temperature of 900 deg F and at a velocity of 4722 fpm.

One Caterpillar, NG fired internal combustion engine Model No. G3306 TA and Serial No. CNR 00165, After Cooled, Turbo Charged, producing 220 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 1912 scf/hr. This equipment powers a Caterpillar Generator Model No. SR4 and Serial No. 5CA06328, rated at 135 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	14.126	gm/bhp-hr
NOx	9.136	gm/bhp-hr
PM10	0.038	gm/bhp-hr
PM2.5	0.038	gm/bhp-hr
SOx	0.0024	gm/bhp-hr
VOC	0.119	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (c) Rating: 220 bhp SIC: 4922 SCC: 20200202 Location/UTM (Km): 718E/3865N

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.

Southern California Gas Co. - MD
PO Box 2300, SC 9314
Chatsworth, CA 91313-2300

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

1. This equipment, and any associated air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. 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 63.6605(b) and District Rule 1302(C)(2)(a)]

2. This equipment shall be exclusively fueled with pipeline quality natural gas with a sulfur content not exceeding 1.0 grains per 100 dscf on a rolling twelve month average basis. Compliance with this limit shall be demonstrated by providing evidence of a contract, tariff sheet or other approved documentation that shows that the fuel meets the definition of pipeline quality gas.
[District Rule 1302(C)(2)(a)]

3. The catalytic converter temperature and exhaust oxygen concentration shall be maintained within the effective operating range of the catalytic converter as specified by the manufacturer.
[District Rule 1302(C)(2)(a)]

4. The air-to-fuel ratio shall be checked weekly to ensure that the manufacturer specified oxygen concentration for optimal catalyst efficiency is maintained. Other parameters may be monitored instead as a part of a District-approved parametric monitoring protocol.
[District Rules 204 and 1302(C)(2)(a)]

5. Pursuant to 40 CFR 63.6612, since this RICE is less than or equal to 500 brake HP and located at a Major source of HAP emissions, the owner/operator shall comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013; pursuant to the requirements of 40 CFR 63.6612, Tables 4 and 5 an Initial Performance test was conducted on 4/10/2007. Refer to Subpart ZZZZ, Table 2 for Monitoring requirements.
[40 CFR 63 Subpart 63.6595]

6. Pursuant to the emission limitations for this Non-emergency, non-black start 4SRB stationary RICE greater than 100 hp and less than 500 hp; the owner/operator shall limit concentration of formaldehyde in the stationary RICE exhaust to 10.3 ppmvd or less at 15 percent oxygen.
[District Rule 1302(C)(2)(a)]

7. The owner/operator shall maintain a log for this equipment which, at a minimum, contains the information specified below. This log shall be maintained current and on-site for a minimum of two years (2) and shall be provided to District personnel on request:
 - a. Fuel consumption in standard cubic feet per calendar month.
 - b. Catalyst performance data (inlet temperature and inlet oxygen content, or as specified by the District-approved Parametric Monitoring Protocol).
 - c. Maintenance records[District Rule 1302(C)(2)(a)]

8. Owner/Operator must comply with the applicable emission limitations and operating limitations of 40 CFR Part 63, Subpart ZZZZ no later than October 19, 2013.

9. Owner/Operator must meet the following emission limitation, except during periods of startup. During periods of startup Owner/Operator must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.
 - a. Limit concentration of formaldehyde in the stationary RICE exhaust to 10.3 ppmvd or less at 15 percent Oxygen.[40 CFR 63.6602 (a) Table 2c]

10. The owner/operator shall submit to the MDAQMD several different notifications and reports, including initial notification, notification of performance test, notification of compliance status (including performance test results), and semiannual compliance reports, including deviation and malfunction reports if applicable.
[40 CFR Part 63 Subpart ZZZZ]

11. The owner/operator shall submit Semiannual reports in accordance with 40 CFR 63, Subpart 63.6650:

- a. Company name and address
- b. Statement of responsible official
- c. Date of report and beginning and ending dates of reporting period
- d. If you had a malfunction during the reporting period, the information in 63.6650(c)(4).
- e. If there are no deviations from any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period.
- f. If you had a deviation from any emission limitation or operating limitation during the reporting period, the information in 63.6650(d).
- g. Semiannual Compliance reports shall be postmarked or delivered, no later than July 31, and no later than January 31 or as otherwise allowed in your Title V permit.

12. This equipment is subject to these permit conditions and the requirements of 40 CFR Part 63 Subpart ZZZZ- National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. In the event of conflict between these requirements, the more stringent requirements shall govern.

[District Rule 1302(C)(2)(a)]

13. 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]