



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

INACTIVE

B008083

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: OCTOBER 2023

OWNER OF OPERATOR (Co.#31)

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

EQUIPMENT LOCATION (Fac.#1437)

SCG - Blythe
13100 W 14th Avenue
Blythe, CA 92225

Description:

NATURAL GAS IC ENGINE, GENERATOR 3, CENTRAL SUPPORTING, consisting of: Year of Manufacturer 2002. Engine is subject to RICE NESHAP 40 CFR 63, Subpart ZZZZ for engines located at a HAP Major Source. Engine exhaust is vented through an NSCR permitted as C008091. Engine has a maximum heat input of 4 MMBTU/Hr. NOTE: THIS ENGINE AND ITS ASSOCIATED 3-WAY CATALYST, PERMITTED AS C008091, ARE SCHEDULED TO BE SHUT DOWN AND PERMITS CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT. Equipment Elevation is 257 feet above sea level. Stack height is 20 feet and stack diameter is 1.0 feet. Stack exhausts at 1158 cfm at a temperature of 635 Degrees F and velocity of 1474 fpm.

One Caterpillar, NG fired internal combustion engine Model No. G3412 SI TA and Serial No. 7DB01749, Turbo Charged, After Cooled, Four-Stroke Rich Burn, producing 400 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 3774 scf/hr. This equipment powers a Magnetek Generator Model No. A26056001 and Serial No. 14630-03, rated at 275 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.66	gm/bhp-hr
NOx	0.3	gm/bhp-hr
PM10	0.02	lbs/MMBtu
SOx	0.001	lbs/MMBtu
VOC	0.15	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (c)

Rating: 400 bhp

SIC: 4922

SCC: 20200202

Location/UTM(Km):
719E/3271N

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**
Eldon Heaston
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. This equipment shall not be operated without venting through the properly operating non-selective catalytic reduction (NSCR) system with valid District Permit C008091 (this requirement shall not apply during a catalyst break-in period not to exceed thirty days beginning with the first firing of fuel in this unit).
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

4. Emissions from this equipment to the atmosphere shall not exceed the following emission limits:

a. Hourly rates, verified by compliance tests (initial compliance test in the case of PM10 and formaldehyde):

- i. NOx as NO₂ - 0.27 lb/hr and 0.3 gram/bhp-hr (averaged over one hour)
- ii. VOC as CH₄ - 0.13 lb/hr and 0.15 gram/bhp-hr
- iii. CO - 0.58 lb/hr and 0.66 gram/bhp-hr
- iv. PM10 - 0.074 lb/hr (front and back half)
- v. Formaldehyde - 0.017 lb/hr

b. Annual rates, based on a rolling 12 month summary, verified by fuel use and compliance tests:

- i. NOx - 2317 pounds/year
- ii. VOC - 1159 pounds/year
- iii. PM10 - 648 pounds/year (front and back half)
- iv. CO - 5100 pounds/year

[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

5. Fuel consumption shall be monitored using a periodic monitoring system. The operator shall install, calibrate, maintain and operate this monitoring system according to a District-approved monitoring plan, and it shall be installed prior to initial equipment startup.

For missing records of fuel usage, the substitute data value shall be the best available estimate of the parameter based on all available process data e.g. load, operating hours etc. The procedure used to estimate the substitute data value shall be documented and records of the procedure used for such estimates shall be maintained. [40 CFR 98.35(b)(2)].

[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

6. The owner/operator must perform the following compliance tests at least once every twelve (12) months beginning in 2002. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

The following compliance tests are required:

- a. NOx as NO₂ in gm/bhp-hr and lb/hr (measured per USEPA Reference Methods 19 and 20)
- b. VOC as CH₄ in gm/bhp-hr and lb/hr (measured per USEPA Reference Methods 25A or 18)
- c. CO in gm/bhp-hr and lb/hr (measured per USEPA Reference Method 10)

[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

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 five (5) years and shall be provided to District personnel on request:
- Fuel consumption in standard cubic feet per calendar month.
 - Catalyst performance data (inlet temperature and inlet oxygen content, or as specified by the District-approved Parametric Monitoring Protocol).
- [District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]
8. The owner/operator must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
[40 CFR 63.6625; District Rule 1302(C)(2)(a)]
9. The owner/operator shall maintain an operations log for this unit 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 information specified below:
- Date of each use and duration of each use (in hours);
 - Calendar year operation in terms of fuel consumption (in DSCF) and total hours.
- [40 CFR 63.6655; District Rule 1302(C)(2)(a)]
10. This unit is subject to the requirements of 40 CFR 63 Subpart ZZZZ (RICE NESHP). In the event of conflict between conditions, referenced regulatory citations, and District Rules, the more stringent requirements shall govern.
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]
11. 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.
[40 CFR 63 Subpart 63.6595]
12. Pursuant to the emission limitations for this Non-emergency, non-black start 4SRB stationary for RICE rated at more 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 O₂.
[Table 2c to Subpart ZZZZ of 40 CFR 63 Requirements for Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE <500 HP Located at a Major Source of HAP]
13. The owner/operator of this NSCR equipped engine shall ensure the catalyst inlet temperature is greater than 750 F and less than 1250 F.
[District Rule 1302(C)(2)(a)]
14. The owner/operator shall conduct an initial performance test by April 19, 2014 as required by 40 CFR 63.6610(a).
15. The owner/operator shall submit to the MDAQMD 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. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.
[40 CFR Part 63 Subpart ZZZZ]
16. The owner/operator shall conduct performance tests using (1) Method 1 or 1A of 40 CFR part 60, appendix A 63.7(d)(1)(i). Sampling sites must be located at the inlet and outlet of the control device. The average formaldehyde concentration, as applicable, corrected to 15 percent O₂, dry basis, from three test runs shall be less than or equal to the formaldehyde concentration limitation, as applicable.
[Table 4 to Subpart ZZZZ of 40 CFR 63 Requirements for Performance Tests]

17. The owner/operator shall submit Semiannual reports in accordance with 40 CFR 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.
- [40 CFR 63 Subpart 63.6650]

18. 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]