MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
14306 Park AvenueVictorville,CA92392-2310
760.245.1661 -- 800.635.4617 -- FAX760.245.2022

INACTIVE

B013454

Inactive type Permit has no description information.

EXPIRES LAST DAY OF:OCTOBER 2022

OWNER OF OPERATOR (Co.#31)

Southern California Gas Co. - MD
9400 Oakdale Avenue
Chatsworth,CA91313

EQUIPMENT LOCATION (Fac.#69)

SCG - No Needles Compressor Station
4500 Needles Highway
Needles,CA92363

Description:
SPARK-IGNITED (SI) NATURAL GAS IC ENGINE, POWERING AN AIR COMPRESSOR (Unit 1A) consisting of:Year of Manufacture; 2019; 4SRB; Engine is Subject to NSPS 40 CFR Part 60 Subpart JJJJ, BACT and Offset Requirements of District Regulation XIII. Facility is a HAP Area Source. Engine is equipped with the following Control Equipment: Control Device, DCL Model 2DC49-6CGS horizontal catalytic converter/silencer o 18-32 dBA insertion loss o Mounted on cooler o (2) DC49 catalytic elements o Guaranteed Emissions (g/bhp-hr): NOx: 0.15 CO: 0.60 VOC: 0.15 RELi E3 Air Fuel Ratio (AFR) Control System Pre-Catalyst Emissions (g/bhp-hr): NOx: 15.41 CO: 15.41 VOC: 0.18 Exhaust Stack is 13.5 feet high and has a 1.167 foot diameter. Exhaust vents at 1801 Lb/hr and at a temperature of 1004 Degrees F. Facility elevation is 543 feet above sea level.

OneCaterpillar,NG fired internal combustion engine Model No.G3406TA and Serial No.TBD,Four-Stroke Rich Burn, producing276 bhp with6 cylinders at1800 rpm while consuming a maximum of2.05MMBtu/hr. This equipment powers a Model No. and Serial No., rated at.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.60	gm/bhp-hr
NOx	0.15	gm/bhp-hr
PM10	0.032	gm/bhp-hr
PM2.5	0.032	gm/bhp-hr
SOx	0.002	gm/bhp-hr
VOC	0.15	gm/bhp-hr

CONDITIONS:

1.This equipment, and any associated air pollution control device(s), shall be installed, operated, and maintained in strict accord with

Fee Schedule:1 (c) Rating:276bhp SIC:4922 SCC:20100202 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,CA91313-2300

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

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 engine shall comply with all applicable rules and regulations including 40 CFR 60, Subpart JJJJ - New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines and the Districts rule and Regulations. In the event of conflict, the more stringent, lowest emissions requirements, shall govern.
[District Rule 1302]

4.The engine shall only be used with a properly maintained and properly functioning RELi E3 Air Fuel Ratio (AFR) system and three-way catalysts/non-selective catalytic reduction (NSCR) device, manufactured by DCL America Inc., Catalyst Model Number 2DC49-6CGS. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and NSCR so as to minimize emissions at all times as required by 60.4243(g).

Note: The emissions of this engine have been offset with Emission Reduction Credits (ERCs) using a portion of Certificate Number 0083. The quantification of this engines emissions and corresponding Offsets are contingent on the proper operation and emissions reductions by these control devices. Therefore, and when required, the Owner/Operator shall only replace this catalyst and AFR with the same manufacturers and model numbers unless otherwise approved by the MDAQMD.
[40 CFR 60.4243(g) and District Rule 1302]

5.A non-resettable four-digit (9,999) hour timer and/or fuel meter shall be installed and maintained on this unit to indicate elapsed engine operating time and/or fuel used.

The owner/operator shall log the the hours of operation and/or fuel use whenever this engine is operated. This log shall be made available to District, State, or Federal Staff upon request.
[District Rule 1302(C)(2)(a)]

6.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 following information:

The owner/operator of this stationary SI internal combustion engine that is greater than 25 HP and less than or equal to 500 HP, must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance as required by condition 7 below and as required by60.4243(b)(2)(i).

Pursuant to these requirements 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 following information:
a. Maintenance plan, and
b. Dates and description of conducted repairs.
[40 CFR 60.4243(a)(2)(i) and 60.4245(a)(2)]

7.The owner/operator shall conduct an initial performance test within 1 year of engine startup to demonstrate compliance as required by 60.4243. Tests shall be performed in accordance with 40 CFR 60 Subpart JJJJ and the Districts Source Test Protocols. Emission levels shall be no higher than those referenced in condition 8:

a. Measurements to determine O2 concentration must be made at the same time as the measurements for NOX concentration using EPA Method 3, 3A, or 3Bb of 40 CFR part 60, appendix A-2 or ASTM Method D6522-00.

b. Exhaust flowrate of the stationary internal combustion engine exhaust shall be determined using EPA Method 2 or 2C of 40 CFR part

60, appendix A-1 or Method 19 of 40 CFR part 60, appendix A-7.

c.Measurements to determine moisture must be made at the same time as the measurement for NOX concentration using EPA Method 4 of 40 CFR part 60, appendix A-3, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D6348-03.

d. NOX sampling shall occur at the outlet of the control device using EPA Method 7E of 40 CFR part 60, appendix A-4, ASTM Method D6522-00, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D6348-03.Results of this test consist of the average of three 1-hour or longer runs.

e. CO shall be sampled at the outlet of the control device using EPA Method 10 of 40 CFR part 60, appendix A4, ASTM Method D6522-00, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D6348-03.

f. VOC shall be sampled at the outlet of the control device using EPA Methods 25A and 18 of 40 CFR part 60, appendices A-6 and A-7, Method 25A with the use of a hydrocarbon cutter as described in 40 CFR 1065.265, Method 18 of 40 CFR part 60, appendix A-6, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D6348-03.

g. Sampling port locations and exhaust traverse points shall be made in accordance with Table 2 to Subpart JJJJ of Part 60 - Requirements for Performance Tests.
(See: https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.jjjj)
[District Rule 204, 1302 and Subpart JJJJ]

8.This engine is BACT equipped and the emissions have been offset with ERCs. Therefore, the owner/operators shall ensure that the engines emissions are less than or equal to the following maximum values as required by initial source testing. If, during source testing, the values are higher than the referenced values, the owner/operator shall take the appropriate corrective action and retest as required until the required emission levels are achieved.Maximum Allowed Emission Levels are:
NOx: 0.15 g/Hp-hr
VOC: 0.15 g/Hp-hr
CO: 0.60 g/Hp-hr
[District Rule 204, 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, and 40 CFR 51, Subpart A]