



## 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

B014049

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: OCTOBER 2024**

#### OWNER OF OPERATOR (Co.#31)

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

#### EQUIPMENT LOCATION (Fac.#68)

SCG - South Needles  
on Hwy 95, 11 miles South of  
Needles, CA 92363

#### Description:

SPARK-IGNITED (SI) NATURAL GAS IC ENGINE, POWERING AN AIR COMPRESSOR consisting of: Year of Manufacturer 2020; 4SRB. Engine is equipped with the following Control Device: EmPact system catalyst provided by INNIO Guaranteed Emissions (g/bhp-hr): NOx: 0.15 CO: 0.60 VOC: 0.15 Exhaust Stack is 13.5 feet high and has a 0.67 foot diameter. Exhaust vents at 2129 ACFM and at a temperature of 1211 Degrees F. Facility elevation is 1348 feet above sea level.

One INNIO Waukesha, NG fired internal combustion engine Model No. VGF-F18SE and Serial No. 1470911 2, Turbo Charged, Air-To-Fuel Ratio Controller, Electronic Control Module, producing 400 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 3.70 MMBtu/hr. This equipment powers a Compressor Model No. LeROI HGT17 and Serial No. LE10133, rated at TBD.

#### EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.60	gm/bhp-hr
NOx	0.15	gm/bhp-hr
PM10	0.040	gm/bhp-hr
PM2.5	0.040	gm/bhp-hr
SOx	0.002	gm/bhp-hr
VOC	0.15	gm/bhp-hr

#### CONDITIONS:

Fee Schedule: 1 (c)      Rating: 400 bhp      SIC: 4922      SCC: 20100202      Location/UTM(Km): 719E/3842N

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 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.

[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. 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(C)(2)(a)]

4. The engine shall only be used with a properly maintained and properly functioning EmPact Air Fuel Ratio Controller (AFRC) and control device operating with valid District Permit C014050. The control device shall be an EmPact system and three-way catalysts/non-selective catalytic reduction (NSCR) catalyst provided by INNIO. 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, Subpart JJJJ and District Rule 1303(B)]

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 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. Calendar year operation in terms of fuel consumption (in standard cubic feet);

b. Calendar year total operating hours (NOT TO EXCEED 2200 hours/year), and

c. Maintenance and repair actions, including date and description.

[40 CFR 60.4243(a)(1) and 60.4245(a)(2), and District Rule 1303(B) - Offset limiting]

6. This engine is subject to 40 CFR 60, Subpart JJJJ - New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines and these permit conditions. In the event of conflict, the more stringent requirements shall apply.

[District Rules 204 and 1302]

7. Pursuant to the Source Testing requirements of condition 8, the owner/operator must provide a written performance test plan or protocol at least thirty days prior to the test date. The owner/operator must conduct all required compliance/performance 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/performance test date so that an observer may be present. The final compliance/performance test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/performance test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).

[40 CFR 60.4243(b)(2)(ii); District Rule 1302(C)(2)(a)]

8. The owner/operator must conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. Test shall be performed in accordance with 40 CFR 60 Subpart JJJJ and the Districts Approved Source Test Protocol:

a. Measurements to determine O<sub>2</sub> concentration must be made at the same time as the measurements for NO<sub>x</sub> 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 NO<sub>x</sub> 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. NO<sub>x</sub> 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 Rules 204, 1302 and 40 CFR 60, Subpart JJJJ]

9. 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 source tests. 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 Rules 204 and 1303]

10. Emissions from this engine have been offset with Emission Reduction Credits (ERC) from SCG Certificate Number 0083. As such, this engine shall NOT operate more than 2200 hours in any single 1-year time period, defined as any consecutive twelve-month period of time.

[District NSR Regulation XIII, District Rule 1303]

11. 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), 40 CFR 70.6 (a)(3)(B), District Rule 1302(C)(2)(a)]

12. 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]