



**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**

B011653

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: JANUARY 2027**

**OWNER OF OPERATOR (Co.#353)**

Graham Equipment Co  
17109 Eureka Street  
Victorville, CA 92392

**EQUIPMENT LOCATION (Fac.#1019)**

Graham Equipment Co  
17109 Eureka Street  
Victorville, CA 92392

**Description:**

NATURAL GAS/LPG IC ENGINE, GENERATOR consisting of: An existing, uncertified Stationary Dual-Fueled Natural Gas/Liquified Petroleum Gas engine manufactured in 1983.

One International Harvester, LPG fired internal combustion engine Model No. C605 gen 12 and Serial No. 09931, Four-Stroke Rich Burn, Spark-Ignited, producing 150 bhp with 8 cylinders at 1800 rpm while consuming a maximum of 10.4 gal/hr. This equipment powers a Kohler Generator Model No. 100rz72 and Serial No. 126236, rated at 100 kW.

**EMISSIONS RATES**

Emission Type	Est. Max Load	Unit
CO	1.346	lbs/hr
NOx	2.17	lbs/hr
PM10	0.0091	lbs/hr
SOx	0.0037	lbs/hr
VOC	0.866	lbs/hr

**CONDITIONS:**

Fee Schedule: 1 (b)

Rating: 150 bhp

SIC: 1442

SCC: 20100202

Location/UTM(Km):  
474E/3818N

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.

Graham Equipment Co  
17109 Eureka Street  
Victorville, CA 92392

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

1. This uncertified, existing stationary, spark-ignited, internal combustion engine shall be installed, operated and maintained in strict accord 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 63.6625(e)]
  
2. This unit shall be fired on regulated pipeline quality natural gas or commercial grade Liquefied Petroleum Gas (LPG) fuel only.  
[District Rules 204 and 431]
  
3. This engine shall not be operated for more than 11 hours per day when using Natural Gas nor more than 17 hours per day when using LPG. Additionally, this engine shall not be operated for more than 4,000 hours per calendar year.  
[District Rule 1303]
  
4. 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 1160(E)(1)(a)(i) or 1160(D)(2)(b)(i) and 40 CFR 63.6655(f)(2)]
  
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 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:
  - (a) Date of each use and duration of each use (in hours);
  - (b) Reason for use (normal operations, testing & maintenance, etc.);
  - (c) Type of fuel used;
  - (d) Calendar year operation in terms of fuel consumption (in standard cubic feet or gallons) or total hours;
  - (e) Maintenance and repair actions; and,
  - (f) Inspections conducted in accordance with condition 12, if not exempt from District Rule 1160 by condition 11.[District Rule 1160(E)(1)(a)(i); 40 CFR 63.6655 and 63.6660]
  
6. The time spent with the engine idling at startup shall not exceed 30 minutes.  
[40 CFR 63.6625(h)]
  
7. A written maintenance plan must be developed and followed for this engine and a copy shall be provided to District, State and Federal personnel upon request. The plan shall include, as a minimum, the following routine maintenance actions:
  - (a) Change the oil and oil filter every 1,440 hours of operation or annually, whichever comes first;
  - (b) Inspect the spark plugs every 1,440 hours of operation or annually, whichever comes first; and
  - (c) Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.[40 CFR 63.6603(a)]
  
8. In lieu of changing the oil at set intervals as specified in Condition #7, the owner/operator may use an Oil Analysis program as discussed in 40 CFR 63.6625(i).  
[40 CFR 63.6625(i)]
  
9. 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 facility's electrical power supplier.  
[District Rule 204]
  
10. If the owner/operator wishes to operate this engine more than 100 hours in any rolling twelve (12) month period, the owner/operator must demonstrate compliance with District Rule 1160(C) - Emission Limits by conducting a compliance test within 180 days of exceeding the 100 hours per year in any rolling twelve (12) month period; and on an annual (once every twelve months), thereafter, for each year the engine operates more than 100 hours in any rolling twelve (12) month period. The Emission Limits that must be demonstrated by the compliance test are as follows, referenced at 15 percent volume stack gas, oxygen measured in a dry basis, averaged over 15 consecutive minutes:

- (a) NO<sub>x</sub> - 50 ppmv
- (b) VOC - 106 ppmv
- (c) CO - 4500 ppmv

The following Test Methods must be used when demonstrating compliance by the compliance test:

- (a) NO<sub>x</sub> - USEPA Method 7E, or ARB Method 100
- (b) CO - USEPA Method 10, or ARB Method 100
- (c) Stack Gas Oxygen - USEPA Method 3 or 3A, or ARB Method 100
- (d) VOC - USEPA Method 18, 25A or 25B, or ARB Method 100.
- (e) Determination of the exempt compounds, shall be performed in accordance with ASTM Test Method D 4457-85 (Solvents and Coatings) and be consistent with the provisions set forth in the Federal Register (FR, Vol. 56, No. 52, March 18, 1991). Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility operator identifies a specific compound or compounds from the broad classes of perfluorocarbons listed in 40 CFR 51.100(s)(1) as being present in the product or process. When such compounds are identified, the facility shall provide the test method to determine the amount(s) of the specific compound(s).

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).

[District Rule 1160(E)(1)(c) and (F)]

11. In lieu of conducting the compliance test demonstration for District Rule 1160, as outlined in condition 10, the owner/operator may exempt this engine from District Rule 1160 by operating this engine less than 100 hours in any rolling twelve (12) month period.

[District Rule 1160(D)(1)(b)]

12. If this engine operates 100 hours or more in any rolling twelve (12) month period, the owner/operator must conduct inspections, whichever is the more frequent of, at least once every calendar quarter; or, after every 2,000 hours of engine operation. An inspection includes any testing, maintenance, and/or other procedures that ensure this Internal Combustion engine is operated in strict accordance with the manufacturer's specifications and in continual compliance with the provisions of this rule. Each inspection shall include the following:

- (a) Date
- (b) Records of testing, as applicable
- (c) Records of maintenance

[District Rule 1160 (E)(1)(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]