



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

B003880

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: SEPTEMBER 2024

OWNER OF OPERATOR (Co.#703)

Liberty Utilities, Apple Valley
21760 Ottawa Road
Apple Valley, CA 92307

EQUIPMENT LOCATION (Fac.#1391)

Liberty AV - Well # 19
21309 Sitting Bull Road
Apple Valley, CA 92308

Description:

NATURAL GAS IC ENGINE, PUMP consisting of: An engine with an unknown year of manufacturer installed in 1970. Facility Elevation is 2975 feet above sea level.

One Waukesha, NG fired internal combustion engine Model No. L3711 GU and Serial No. 48314, Four-Stroke Rich Burn, producing 380 bhp with 12 cylinders at 900 rpm while consuming a maximum of 2544.43 scf/hr. This equipment powers a Peerless Pump Model No. DWT and Serial No. 253230, rated at 800 gallons per minute.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	18.0	gm/bhp-hr
NOx	15.5	gm/bhp-hr
VOC	1.2	gm/bhp-hr

CONDITIONS:

1. This existing, spark-ignited engine, and any associated air pollution control equipment, shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier, 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 63.6605 (b) and 40 CFR 63.6625(e)]

Fee Schedule: 1 (c)

Rating: 380 bhp

SIC: 4941

SCC: 20200202

Location/UTM(Km):
482E/3820N

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.

Liberty Utilities, Apple Valley
Attn: Accounts Payable

Litchfield Park, AZ 85340

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

2. 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 District Rule 204]

3. This unit shall only be fired on natural gas fuel only.
[District Rule 204]

4. The owner/operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply.
[40 CFR 63.6625(h)]

5. The owner/operator shall maintain an operations log for this equipment 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/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:

- a. Monthly usage and annual operation in terms of fuel consumption (in gallons) and total hours; and
 - b. Maintenance performed on this equipment, inclusive of the management practice requirements of condition 6.
 - c. Inspections conducted in accordance with condition 10, if not exempt from District Rule 1160 by condition 9.
- [District Rule 1160(E)(1)(a)(i); 40 CFR 63.6655(a)(4)]

6. This engine is subject to the requirements of 40 CFR 63, Subpart ZZZZ, and pursuant to this federal regulation, this engine is required to meet the following compliance requirements by October 19, 2013:

The owner/operator of this equipment shall demonstrate continuous compliance by committing to a maintenance schedule inclusive of the management practice requirements listed below:

- a. Change oil and oil filter every 1,440 hours of operation or annually, whichever comes first (owner/operator has the option to utilize an oil analysis program pursuant to 40 CFR 63.6625(j) in order to extend the specified oil change requirement.);
 - b. Inspect air cleaner 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) and 63.6640(a)]

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)]

7. This engine is subject to the requirements 40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.
[40 CFR 63.6585]

8. 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_x - 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_x - 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.

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

9. In lieu of conducting the compliance test demonstration for District Rule 1160, as outlined in condition 8, 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)]

10. 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)]

11. 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]