



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

TERMINATED

B014344

Terminated type Permit has no description information.

EXPIRES LAST DAY OF: OCTOBER 2023

OWNER OF OPERATOR (Co.#2756)

MiCa Associates, LLC
9732 Rancho Road
Adelanto, CA 92301

EQUIPMENT LOCATION (Fac.#4181)

MiCa Associates
9732 Rancho Road
Adelanto, CA 92301

Description:

NATURAL GAS IC ENGINE consisting of: Year of Manufacture 2014; 4-Stroke Rich Burn; Engine is not EPA certified; Stack Height 8.67 Feet; Stack Diameter 0.33 Feet; Engine exhausts through an AltaStream Model A1013126 3-Way Catalyst. Engine emission rate details obtained from Manufacturer Specifications and AP-42 and are subject to verification through compliance testing. Equipment elevation is 2954 feet above sea level.

One International Harvester, NG fired internal combustion engine Model No. IH466-TA and Serial No. 14-001503, Inter Cooled, Turbo Charged, Three-Way Catalyst (also NSCR), Air-To-Fuel Ratio Controller, producing 210 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 0.00147 MMscf/hr. This equipment powers an AltaStream Power Systems Generator Model No. APHG150 and Serial No. EQ14-001503, rated at 125 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	628.24	lbs/MMscf
NOx	314.12	lbs/MMscf
PM10	6.73	lbs/MMscf
PM2.5	6.73	lbs/MMscf
SOx	0.57	lbs/MMscf
VOC	219.89	lbs/MMscf

CONDITIONS:

1. Owner/operator must, to the extent practicable, maintain and operate the engine 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

Fee Schedule: 1 (c) Rating: 210 bhp SIC: 2833 SCC: 20100202 Location/UTM(Km): 459E/3825N

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.

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Adelanto, CA 92301

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

specifications submitted with the application for this permit.
[Derived from 60.4243(b)(2)(i)]

2.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, District Rule 1160 - Internal Combustion Engines, and these permit conditions. In the event of conflict, the more stringent requirements shall govern.

3.This unit shall only be fired on natural gas fuel.
[District Rule 431 and 1302]

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)(b)(i)(b)]

5.An Air-to-Fuel Ratio Controller shall be used in conjunction with the control device and shall be maintained and operated appropriately to ensure proper operation of the engine and control device to minimize emissions at all times.
[District Rule 1160(E)(1)(b)(i)(c); 40 CFR 60.4243(g)]

6.The owner/operator shall maintain an operations and inspection 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. Monthly fuel usage in cubic feet or therms;
- b. Monthly and rolling twelve month operation in terms of total hours (from the engine hour timer);
- c. Engine and emission control maintenance plan as required by 40 CFR 60 Subpart JJJJ;
- d. Records of all inspection, maintenance and/or repair actions performed on the engine or associated air pollution control equipment, including date and description;
- e. Initial and all subsequent Performance Test results.

[District Rule 1160(E)(1)(a)(i); 40 CFR 60.4243(b)(2)(i) and 60.4245(a)(2)]

7.The owner/operator must comply with the following emission standards, as referenced below, over the entire life of the engine. Compliance must be determined in accordance with the performance test methods and procedures specified in 40 CFR 60.4244 and Table 1 to Subpart JJJJ.

Maximum Allowed Emission Standards:

- a. NOx: 50 ppmvd at 15% O₂;
- b. CO: 2.0 g/bhp-hr, or 270 ppmvd at 15% O₂, and
- c. VOC 0.7 g/bhp-hr, or 60 ppmvd at 15% O₂

Note: Emission standards are from Table 1 to Subpart JJJJ of Part 60 except NOx which is limited to 50 ppmvd per District Rule 1160 for Rich Burn Spark-Ignited Internal Combustion Engines
[District Rule 1160(C)(a)(i); 40 CFR Part 60.4233(e)]

8.The owner/operator must conduct an initial performance test within 180 days of engine startup, and conduct subsequent performance testing every 12 months, thereafter to demonstrate compliance with condition 7. If a compliance test demonstrates compliance with condition 7, the testing frequency may be extended to once every 24 months. Failure of a compliance test, or failure to complete the test within the required frequency, resets the compliance test frequency to once every 12 months.
[District Rule 1160(E)(1)(b)(ii) and 1160(E)(1)(d); 40 CFR 60.4243(b)(2)(i)]

9.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; 40 CFR 60.4243(b)(2)(i)]

10. Pursuant to District Rule 1160, the owner/operator shall perform compliance testing in accord with the following test procedures or any other method approved by USEPA and the APCO:

- a. Oxides of nitrogen - EPA Method 7E, or ARB Method 100.
- b. Carbon monoxide - EPA Method 10, or ARB Method 100.
- c. Stack gas oxygen - EPA Method 3 or 3A, or ARB Method 100.
- d. Volatile organic compounds - EPA 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).

[District Rule 1160]

11. The owner or operator of this Internal Combustion Engine shall 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.

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

12. The owner/operator shall Install, operate, and maintain in calibration, the following monitoring equipment, as approved by the APCO:

- a. Continuous measurement and recording of Emissions Control System Operating Parameters;
- b. Continuous measurement and recording of elapsed time of operation; and,
- c. An Enhanced Emissions Monitoring Device.

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

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]