



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

B014641

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: AUGUST 2026

OWNER OF OPERATOR (Co. #2843)

Gravity Investments
6477 Box Springs Blvd.
Riverside, CA 92507

EQUIPMENT LOCATION (Fac. #4258)

Gravity Investments
16655 Koala Road
Adelanto, CA 92301

Description:

NATURAL GAS IC ENGINE, GENERATOR, CANNABIS consisting of: Year of Manufacture 2014; Stack Height 20 Feet; Stack Diameter 1.16 Feet; Exhaust temperature 842 degrees F; Exhaust Flow Rate 4545 ACFM; Engine exhausts through a Miratech Model SP CBL16-22080095-11GS-0, Serial Number CBL04540 SCR Emission Control Catalyst. Engine emission rate details obtained from Manufacturer Specifications. Equipment elevation is 2974 feet above sea level.

One Waukesha, NG fired internal combustion engine Model No. VGF-L36GL and Serial No. 5283703489, Inter Cooled, Selective Catalytic Reduction, Four-Stroke Lean Burn, Selective Catalytic Reduction, producing 891 bhp with 12 cylinders at 1800 rpm while consuming a maximum of 6660 scf/hr. This equipment powers a Marathon Electric Generator Model No. 573RSL5181 and Serial No. MX-206321-0114, rated at 530 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	1.3	gm/bhp-hr
NOx	2.0	gm/bhp-hr
PM10	0.0658	gm/bhp-hr
SOx	1.99E-03	gm/bhp-hr
VOC	0.04	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (c)

Rating: 891 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.

Gravity Investments
6477 Box Springs Blvd.
Riverside, CA 92507

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

1. This stationary, spark-ignited, internal combustion engine and its associated control device (SCR) shall be installed, operated and maintained in strict accordance 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.

[District Rule 1302; 40 CFR 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, subpart 60.4243]

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.

[District Rules 431 and 1302]

3. This unit shall only be fired on natural gas fuel.

[District Rules 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. 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.

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

6. The owner or operator of this Internal Combustion Engine shall conduct inspections at least once every calendar quarter; or, after every 2,000 hours of engine operation, whichever is the more frequent. 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)]

7. Emissions from this equipment to the atmosphere shall not exceed the following emission limits:

a. Hourly rates, verified by compliance tests:

- i. NO_x as NO₂ - 0.943 lb/hr and 0.48 gram/bhp-hr (averaged over one hour)
- ii. VOC as CH₄ - 0.236 lb/hr and 0.12 gram/bhp-hr
- iii. CO - 1.886 lb/hr and 0.96 gram/bhp-hr
- iv. PM₁₀ - 0.045 lb/hr (front and back half)

b. Annual rates, based on a rolling 12 month summary, verified by fuel use and compliance tests:

- i. NO_x - 8260 pounds/year
- ii. VOC - 2065 pounds/year
- iii. PM₁₀ - 393 pounds/year (front and back half)
- iv. CO - 16519 pounds/year

[40 CFR 60.4243(b)(2)(i), 40 CFR 60.4244, District Rules 1302 and 1303]

8. The owner/operator shall perform the following compliance tests, once every twelve month period, beginning within 180 days after installation of the equipment, in accordance with the MDAQMD Compliance Test Procedural Manual. The following compliance tests are required:

- a. NO_x as NO₂ in gm/bhp-hr and lb/hr (measured per USEPA Reference Methods 19 and 20)
- b. VOC as CH₄ in gm/bhp-hr and lb/hr (measured per USEPA Reference Methods 25A or 18)

- c. CO in gm/bhp-hr and lb/hr (measured per USEPA Reference Method 10)
 - d. Flue gas flow rate in dscfm
- [40 CFR 60.4243(b)(2)(i), 40 CFR 60.4244, District Rules 1302 and 1303]

The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification 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/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within sixty (60) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov

9. In the event that the Miratech SCR is replaced, the new (replacement) emission control device must be of the same Manufacturer and model designation and it must be installed by Factory Certified personnel to avoid follow-on source testing. If the Manufacturer or the Model designation of the new (replacement) catalytic converter is not identical to the original catalytic converter or if the unit is not installed by Factory Certified personnel, then the engine shall be source tested in accordance with the requirements outlined in Condition 8, within 90 days after the catalytic converter replacement. The source test results must confirm that the engine meets the emission limits found in Condition 7.
- [40 CFR 60.4243, 40 CFR 60.4244, District Rules 1160, 1303 and 1320]

10. Emissions from this facility, including all stationary and portable emissions, may not exceed the following emission limits, based on a rolling 12 month summary:
- a. NOx - 20 tons/year, verified by compliance tests and hours of operation,
 - b. VOC as CH4 - 20 tons/year, verified by compliance tests and hours of operation,
 - c. PM10 - 12 tons/year, verified by compliance tests and hours of operation,
 - d. Single Federal Hazardous Air Pollutant (HAP) - 9.9 ton/year, verified by emission calculations, and
 - e. All HAPs - 20 tons/year, verified by emission calculations.
- [District Rule 1303]

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]