



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

B014557

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: JULY 2026

OWNER OF OPERATOR (Co.#2828)

Koala Farms, LLC
16124 Koala Road
Adelanto, CA 92301

EQUIPMENT LOCATION (Fac.#4246)

Koala Farms - 16124 Koala
16124 Koala Road
Adelanto, CA 92301

Description:

NATURAL GAS IC ENGINE, PORTABLE GENERATOR, CANNABIS consisting of: A prime use Rich-burn spark ignition internal combustion engine, driving a generator used to provide power to this facility. Year of Manufacture 2019; EPA Engine Family: KPSIB21.9NGP; Exhaust flow is approximately 2077 ACFM at 1053 degrees Fahrenheit; Stack Height 12.8 Feet; Stack Diameter 0.33 Feet Equipment elevation is 3020 feet above sea level.

One Power Solution International, NG fired internal combustion engine Model No. D21.9L and Serial No. EZYOF903532, Turbo Charged, After Cooled, Air-To-Fuel Ratio Controller, Electronic Control Module, producing 582 bhp with 12 cylinders at 1800 rpm while consuming a maximum of 4600 scf/hr. This equipment powers a PSI Generator Model No. 572RSL5397 and Serial No. MT-0080595-0419, rated at 400.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	55.66	lbs/MMscf
NOx	83.49	lbs/MMscf
PM10	6.73	lbs/MMscf
PM2.5	6.73	lbs/MMscf
SOx	0.57	lbs/MMscf
VOC	25.05	lbs/MMscf

Fee Schedule: 1 (c)

Rating: 582 bhp

SIC: 2833

SCC: 20200253

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.

Koala Farms, LLC
12339 Cameron Court
Caledonia, IL 61011

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

CONDITIONS:

1. This stationary, spark-ignited, internal combustion engine and its associated control device (Three-Way Catalyst) air/fuel ratio controller 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 unit shall only be fired on PUC regulated Pipeline quality natural gas fuel.
[District Rule 431 and 1302; 40 CFR 60.4243]

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 1160(E)(1)(b)(i)(b); 40 CFR 60.4237]

4. 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. Daily, Monthly, and rolling twelve month operation in terms of total hours (from the engine hour timer);
 - b. Initial and periodic Differential Pressure readings across the catalytic converter (see Condition #9);
 - c. Records of all maintenance and repair actions performed on the engine, the AFRC, and the catalytic converter;
 - d. Results of all engine source tests as required in conditions #7; and
 - e. Results of all engine inspections as required in Condition #11.[District Rule 1160(E)(1)(a)(i); 40 CFR 60.4243(b)(2)(i) and 60.4245(a)(2)]

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 catalytic converter shall be cleaned in accordance with the manufacturer's written procedures when the pressure differential across the converter exceeds two (2) inches water column above its initial reading at startup.
[40 CFR 60.4243, District Rule 1302]

7. In the event that the Three-Way Catalytic Converter is replaced, the new (replacement) Catalytic Converter 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 procedures outlined in 40 CFR 60.4244 and District Rule 1160 within 90 days after the catalytic converter replacement. The source test results must verify that the engine meets the following maximum emission limits (measured at standard conditions):
 - a. NOx: 50 ppmv (per district rule 1160);
 - b. CO: 2.0 g/hp-hr (per Emission standards Subpart JJJJ), and
 - c. VOC: 0.2 g/hp-hr (per Emission standards Subpart JJJJ).[40 CFR 60.4243, 40 CFR 60.4244, District Rules 1160, 1303 and 1320]

8. 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 Rule 431 and 1302]

9. The differential pressure across the catalytic converter must be measured and recorded at intervals not to exceed 1,000 hours since the most recent previous reading. If the engine runtime exceeds the 1,000 hour interval, it must be shut down until a differential pressure reading is properly taken and recorded.

[District Rules 204 and 1302]

10. This engine shall not operate for more than 3650 hours in any consecutive 12 month period. Additionally, this unit shall not operate more than 10 hours per day (midnight to midnight). Before these limitations can be increased, the facility is required to submit to the District an application to modify the permit, which may trigger BACT review and may necessitate a Health Risk Assessment (HRA). In addition, public notice and/or a commenting period may be required.

[District Rules 1302, 1303, and 1320]

11. This engine must be inspected at least once each quarter or after every 2,000 hours of operation, whichever is more frequent. An inspection includes any testing, maintenance, and/or other procedures that ensure the engine is operated in strict accordance with the manufacturer's specifications and in continual compliance with the provisions of District Rule 1160. Records of such inspections must include the following information as a minimum:

- a. Inspection Date;
- b. Records of testing, as applicable; and
- c. Records of maintenance.

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

12. 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. NO_x: 50 ppmv (per district rule 1160);
- b. CO: 2.0 g/hp-hr (per Emission standards Subpart JJJJ), and
- c. VOC: 0.2 g/hp-hr (per Emission standards Subpart JJJJ).

Note: Emission standards are from District Rule 1160 and the Emission standards Subpart JJJJ.

[District Rules 1160(C)(a)(i), and 1302; 40 CFR Part 60.4233(e)]

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]