



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

B013407

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: JUNE 2020

OWNER OF OPERATOR (Co.#2439)

Glorietta Management Group
9219 Industrial Way
Adelanto, CA 92307

EQUIPMENT LOCATION (Fac.#3836)

Bay View Farms
9219 Industrial Way
Adelanto, CA 92301

Description:

NATURAL GAS IC ENGINE, GENERATOR (CANNABIS) consisting of: Year of Manufacturer TBD. This is not an EPA certified engine nor does the engine meet Rule 1160 emission standards without an emissions control device installed. Engine is equipped with add-on emission control technology (NSCR). NSCR manufactured by DCL, Model MINE-X DC50-8. BSFC - 8692 Btu/bhp-hr (HHV) Stack Data: H: 16 feet Diam.: 0.5 feet Temp: 1005 F Flow Rate: 1086 SCFM Velocity: 1241 FPM

One Waukesha, NG fired internal combustion engine Model No. H24SE and Serial No. C-9446G/1, Three-Way Catalyst (also NSCR), Four-Stroke Rich Burn, Air-To-Fuel Ratio Controller, Inter Cooled, Turbo Charged, producing 530 bhp with 8 cylinders at 1800 rpm while consuming a maximum of 4.61 MMBtu/hr. This equipment powers a Leroy Sumer Generator Model No. Dyna Power and Serial No. TBD, rated at 375 kW.

CONDITIONS:

1. This stationary, spark-ignited, internal combustion engine and its associated control device (Three-Way Catalyst) and 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.
[40 CFR 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, subpart 60.4243; District Rule 1302]
2. This unit shall only be fired on PUC regulated Pipeline quality natural gas fuel.
[40 CFR 60.4243, District Rules 431 and 1302]

Fee Schedule: 1 (c)

Rating: 530 bhp

SIC: 191

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 92307

By: **COPY**
Brad Poiriez
Executive Director

3. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[40 CFR 60.4237, District Rule 1160(E)(1)(b)]

4. This engine shall not be operated unless all of the following engine systems are properly functioning:

- a. Air-to-Fuel Ratio Controller
- b. Oxygen Sensor
- c. Non-Selective Catalytic Reduction

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician or as allowed with prior APCO written permission.

[District Rule 1302]

5. The 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.

[40 CFR 60.4243]

6. The maximum allowed exhaust temperature at the catalyst inlet is 1125 degrees Fahrenheit (engine mfg. exhaust temperature at test conditions).

[District Rule 1160]

7. This engine shall meet the following emission standards:

// Pollutant // g/bhp-hr

NO_x (as NO₂) // 0.5

CO // 1.0

VOC (as CH₄) // 0.5

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[District Rule 1302; District Rule 1160; 40 CFR 63 Subpart JJJJ Table 1]

8. This engine must be source tested for NO_x, VOC, CO, and O₂ within 180 days of startup and at least once in every 12 month period to verify compliance with the emission limits in Condition 8. The owner/operator must carry out the testing in accordance with the test procedures of 40 CFR 60.4244 and/or District Rule 1160. If the testing shows compliance with these limits, the testing may be extended to once every 24 months. Failure of a compliance test or failure to complete the compliance test within the required frequency resets the compliance test frequency to at least once in every 12 month period.

The MDAQMD shall be notified in writing at least ten days prior to the compliance test date. A compliance test shall be performed in accord with an MDAQMD-approved test plan or protocol. The MDAQMD shall be provided a written compliance test plan or protocol at least thirty days prior to the test date. Compliance tests shall be performed, and compliance test reports shall be prepared, in accordance with the MDAQMD Compliance Test Procedural Manual (available at the MDAQMD website www.mdaqmd.ca.gov). Compliance test reports shall be submitted to the MDAQMD and EPA (into EPA WebFire database via ERT) not later than 45 days after the compliance test date.

Any written documentation (including but not limited to notification, test plan/protocol and test reports) may be submitted in hard copy form, by facsimile, or by email to reporting@mdaqmd.ca.gov (all digital attachments shall be in portable document format (pdf)).

[District Rule 1160; 40 CFR 60.4243; 40 CFR 60.4244]

9. 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)]

10. The owner/operator 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. Daily record of the catalyst inlet temperature;
- b. Daily record of any engine control system and AFRC system faults or alarms that affect emissions.
- c. Quarterly fuel use (in cubic feet or therms) and quarterly hours of operation, on a calendar quarter basis;
- d. Initial and periodic Differential Pressure readings across the catalytic converter (see condition #11);
- d. The date and a summary of any emissions corrective maintenance taken;
- e. Records of all maintenance and repair actions performed on the engine, the AFRC, and the catalytic converter;
- f. Results of all engine source tests as required in Condition 8; and
- g. Results of all engine inspections as required in Condition 9.

[40 CFR 60.4245, 40 CFR 1048, District Rule 1160]

11. 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]

12. 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]

13. 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 emission limits found in Condition 7.

[40 CFR 60.4243, 40 CFR 60.4244, District Rules 1160, 1303 and 1320]

14. This engine is subject to the requirements of the New Source Performance Standards (NSPS) for Stationary Spark Ignition IC Engines (40 CFR 60, Subpart JJJJ) and MDAQMD Rule 1160. In the event of conflict between these conditions and the aforementioned rules/regulations, the more stringent requirements shall govern.

[District Rule 1302]

15. 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]