



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

M012901

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: JUNE 2019

OWNER OF OPERATOR (Co.#2528)

EPG Power Corporation
9501 Commerce Way
Adelanto, CA 92301

EQUIPMENT LOCATION (Fac.#3752)

EPG - was LDS
9501 Commerce Way
Adelanto, CA 92301

Description:

NATURAL GAS IC ENGINE, GENERATOR #1, CANNABIS, BACKUP consisting of: A natural gas fired engine manufactured by Caterpillar in 2014, equipped with an aftermarket CO Catalyst manufactured by MiraTech to meet the emission limits of 40 CFR 60 Subpart JJJJ (the Catalytic Converter is permitted under District Permit C012975). Exhaust flow is approximately 11,916 acfm at 863 degrees Fahrenheit through a 23 foot high by 1.5 foot diameter stack:

One Caterpillar, NG fired internal combustion engine Model No. G3516C and Serial No. JKK00192, Air-To-Fuel Ratio Controller, Oxidation Catalyst, Four-Stroke Lean Burn, Spark-Ignited, producing 2175 bhp with 16 cylinders at 1800 rpm while consuming a maximum of 16140 scf/hr. This equipment powers a Caterpillar Generator Model No. SR4B and Serial No. TBD, rated at 1500 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	1.99	gm/bhp-hr
NOx	2.0	gm/bhp-hr
PM2.5	0.034	gm/bhp-hr
SOx	0.002	gm/bhp-hr
VOC	0.70	gm/bhp-hr

CONDITIONS:

1. This stationary, spark-ignited, internal combustion engine and its associated control device (Catalytic Converter, District Permit C012975) and air/fuel ratio controller shall be installed, operated and maintained in strict accordance with those recommendations of the

Fee Schedule: 10 (1d)

Rating: 2175 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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By: **COPY**
Eldon Heaston
Air Pollution Control Officer

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 be fired on Natural Gas fuel with a Sulfur content of less than 18 ppmw.

Note: Use of PUC-Regulated Pipeline Quality Natural Gas satisfies this requirement.

[40 CFR 60.4243, District Rule 431]

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]

4. The owner/operator shall conduct inspections of this engine at least once every quarter or after every 2,000 hours of operation, whichever occurs first. As a minimum, these inspections shall include any testing, maintenance and/or any other procedures that ensure the engine is being operated in accordance with the manufacturer's specifications and in continual compliance with the District-approved Inspection and Maintenance Plan (I&M Plan). Results of these inspections shall be recorded as noted in condition 5.

[40 CFR 60, Subpart JJJJ, District Rule 1160]

5. 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. Monthly fuel usage in cubic feet or therms;

b. Monthly and rolling twelve month operation in terms of total hours;

c. Initial and all subsequent Performance Test results; and

d. Records of all inspections, maintenance actions, and repairs performed on this engine, the AFRC, and the catalytic converter.

[40 CFR 60.4245, 40 CFR 1048, District Rule 1160(E)]

6. The Air-to-Fuel Ratio Controller (AFRC) 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(g)]

7. This engine and its associated Catalytic Converter (District Permit C012975) must have a performance test (Source Test) conducted at least once in every 8,760 hours of operation or at least once in every thirty six month period, whichever comes first. The source test results must verify that the engine meets the following maximum emission limits (measured at standard conditions):

a. NOx: 1.0 g/bhp-hr;

b. CO: 2.0 g/bhp-hr; and

c. VOC: 0.105 g/bhp-hr.

The District shall be provided a written performance test plan or protocol at least thirty days prior to the test date. The owner/operator must conduct all required source test/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 test date so that an observer may be present. The final performance test results must be submitted to the District not later than forty-five (45) days after the source test date. All performance test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

Note: The VOC limit is more stringent than either the 40 CFR 60, SubPart JJJJ or District Rule 1160 limits and is required to keep the facility's HARP Prioritization Score below 10. If a source test result produces a Prioritization Score above 10, the facility will be required to perform a full Heath Risk Assessment (HRA).

[40 CFR 60.4243(b)(2)(ii), District Rule 1160(E)(1)(d)]

8. The owner/operator shall submit a proposed Inspection and Maintenance Plan (I&M Plan) to the District for review and approval no later than 90 days after receipt of the initial Authority to Construct permit. Upon approval from the APCO, the facility shall implement the plan. As a minimum, the I&M Plan shall include the following:

a. Identification of engine and control equipment operating parameters necessary to maintain pollutant concentrations within the rule and permit limits.

- b. Procedures for alerting the operator to emission control malfunctions. Engine control systems, such as air-to-fuel ratio controllers, shall have a malfunction indicator light and audible alarm.
 - c. Procedures for responding to, diagnosing and correcting breakdowns, faults, malfunctions, alarms, diagnostic emission checks finding emissions in excess of rule or permit limits, and parameters out-of-range.
 - d. Procedures and schedules for preventive and corrective maintenance.
- [40 CFR 60, Subpart JJJJ, District Rule 1160(E)(1)(a)]

9. In the event that the catalyst bed in the Catalytic Converter (District Permit C012975) is replaced, this engine shall be source tested in accordance with the procedures outlined in 40 CFR 60.4244 within 90 days after the replacement. The source test results must verify that the engine meets the following maximum emission limits (measured at standard conditions):
- a. NOx: 1.0 g/bhp-hr;
 - b. CO: 2.0 g/bhp-hr; and
 - c. VOC: 0.105 g/bhp-hr.

Note: The VOC limit is more stringent than either the 40 CFR 60, SubPart JJJJ or District Rule 1160 limits and is required to keep the facility's HARP Prioritization Score below 10. If a source test result produces a Prioritization Score above 10, the facility will be required to perform a full Heath Risk Assessment (HRA).
[40 CFR 60.4243, 40 CFR 60.4244, District Rules 1160, 1320, and 1520]

10. The owner/operator of this engine shall submit an initial notification as required in 40 CFR 60.7(a)(1). This information shall include the following:
- a. Name and address of the owner or operator;
 - b. The address of the affected source;
 - c. Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
 - d. Emission control equipment; and
 - e. Fuel used.
- This notification shall be submitted to the District no later than 30 days after receipt of the initial Authority to Construct permit.
[40 CFR 60.7(a)(1), 40 CFR 60.4245(c)]

11. 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).
[40 CFR 60, Subpart JJJJ, District Rule 1302]

12. This engine and the engine described in District Permit B012902 shall not be operated simultaneously except for periods not to exceed 60 minutes when switching from one engine to the other.
[District Rules 1302, 1303, and 1320]

13. This engine and the engine described in District Permit B012902 shall not be operated for a combined total of 9,000 hours in any twelve consecutive month period.
[District Rules 1302 and 1320]

14. 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]