



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

B014554

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: JUNE 2024

OWNER OF OPERATOR (Co.#2528)

EPG Power Corporation
9501 Commerce Way
Adelanto, CA 92301

EQUIPMENT LOCATION (Fac.#3937)

EPG Power
9501 Commerce Way
Adelanto, CA 92301

Description:

NATURAL GAS IC ENGINE, PRIME STATIONARY GENERATOR consisting of: Year of Manufacture 2022; EPA Engine Family: NPSIB31.8NGPEPA; Certificate Number: NPSIB31.8NGP-020; Stack Height TBD Feet; Stack Diameter TBD Feet; Exhaust temperature 1183 degrees F; Exhaust Flow Rate 4354 ACFM; Engine exhausts through an Integral Emission Control Catalyst. Engine emission rate details obtained from Manufacturer Specifications. Equipment elevation is 3011 feet above sea level.

OnePower Solutions Inc, NG fired internal combustion engine Model No. 31.8LTCAC and Serial No. 3021B000146, Three-Way Catalyst (also NSCR), Four-Stroke Rich Burn, Air-To-Fuel Ratio Controller, Direct Injected, Electronic Control Module, Inter Cooled, Spark-Ignited, Turbo Charged, producing 966 bhp with 12 cylinders at 1800 rpm while consuming a maximum of 7869 scf/hr. This equipment powers a TBD Generator Model No. TBD and Serial No. TBD, rated at TBD kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.54	gm/bhp-hr
NOx	0.05	gm/bhp-hr
PM10	0.0717	gm/bhp-hr
SOx	0.0022	gm/bhp-hr
VOC	0.10	gm/bhp-hr

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

Fee Schedule: 1 (c) Rating: 965 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

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 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]

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. Dates and times when operation of this unit is switched with operation of the unit covered under District Permit M014555, to demonstrate compliance with Condition 12.

[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. NO_x: 0.05 g/bhp-hr;
- b. CO: 0.54 g/bhp-hr, and
- c. VOC 0.10 g/bhp-hr.

Note: Emission standards are from PSI Power Solutions International Emissions Summary Table that was provided as part of the application package.
[District Rules 1160(C)(a)(i), and 1302; 40 CFR Part 60.4233(e)]

8.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]

9.The owner/operator shall Submit to the APCO for written approval an Inspection & Maintenance plan (I&M Plan). Upon written approval by the APCO, the owner/o shall implement the I&M plan as approved. The I&M Plan shall institute an inspection and maintenance plan identifying at a minimum;

- a. Identification of engine and control equipment operating parameters necessary to maintain pollutant concentrations within these 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 permit limits, and parameters out-of-range.
- d. Procedures and schedules for preventive and corrective maintenance.

[Composite Condition, Contains elements of District Rules 1160 and 40 CFR 60 Subpart JJJJ]

10. 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)]

11. 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)]

12. This engine shall not be operated concurrently with the engine covered under District Permit M014555.

[District Rule 1160(B)(2)(b); District Rule 1302]

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]