



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

M013294

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: JUNE 2024

OWNER OF OPERATOR (Co. #2432)

17K Muskrat 1
8469 Beach Circle
Cypress, CA 90630

EQUIPMENT LOCATION (Fac. #3829)

17K Muskrat 1
17080 Muskrat Avenue
Adelanto, CA 92301

Description:

NATURAL GAS IC ENGINE, GENERATOR (CANNABIS) (GENERATOR NO. B1) consisting of: One of five identical prime power natural gas generators for this facility. This 966 bhp engine was manufactured in 2018 and is equipped with a Miratech model SP-IQ2-30-TBD catalyst.

One Power Solutions International (PSI), NG fired internal combustion engine Model No. 31.8LTCAC and Serial No. 3018H000325, Turbo Charged, Three-Way Catalyst (also NSCR), Air-To-Fuel Ratio Controller, Electronic Control Module, Four-Stroke Rich Burn, Spark-Ignited, Charge Air Cooler, producing 966 bhp with 12 cylinders at 1800 rpm while consuming a maximum of 5797 scf/hr. This equipment powers a Gillette Generator Model No. PR-5400 and Serial No. X19A035604, rated at 540 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.07	gm/bhp-hr
NOx	0.02	gm/bhp-hr
PM10	0.007	gm/bhp-hr
PM2.5	0.007	gm/bhp-hr
SOx	0.016	gm/bhp-hr
VOC	0.03	gm/bhp-hr

CONDITIONS:

Fee Schedule: 10 (1c) Rating: 966 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.

17K Muskrat 1
8469 Beach Circle
Cypress, CA 90630

By: **COPY**
Brad Poiriez
Air Pollution Control Officer

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.
[District Rule 1302 and 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 Rules 431 and 1302 and 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) and 40 CFR 60.4237]

4. 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, calendar quarterly, and calendar year operation in terms of total hours;
 - c. Records of all maintenance and repair actions performed on the engine, the AFRC, and the catalytic converter, including date and description;
 - d. Results of all engine source tests;
 - e. Results of all engine inspections as required in Condition #9; and,
 - f. Documentation from the manufacturer that this engine, as designed and equipped by the manufacturer, as is certified to meet the emission standards and information as required in Condition 40 CFR part 1048, as applicable.
- [District Rule 1160, 40 CFR 60.4245 and 40 CFR 1048]

5. Pursuant to 40 CFR Part 60 Subpart JJJJ, and District Rule 1160, the owner/operator must comply with the ppmvd or the referenced g/HP-hr emission standards over the entire life of the engine. Compliance must be demonstrated through documentation from the manufacturer that this engine, as designed and equipped by the manufacturer, as is certified to meet these emission standards or an emissions compliance test. In the event emissions compliance testing is used to demonstrate the emission rates, the compliance testing must be conducted for NOX, VOC, CO and oxygen (O2) levels in compliance with the provisions of the District's Compliance Test Procedural Manual. Emissions values must not exceed the following:

- a. NOx: 50 ppmvd at 15% O2 dry basis (District Rule 1160(C)(1)(i));
 - b. VOC: 0.7 g/HP-hr (40 CFR 60.4233(e)); and,
 - c. CO: 2.0 g/HP-hr (40 CFR 60.4233(e)).
- [Derived from District Rules 1160, 1302, and 40 CFR 60 Subpart JJJJ]

6. 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]

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:

- a. NOx: 50 ppmvd at 15% O2 dry basis (District Rule 1160(C)(1)(i));
 - b. VOC: 0.7 g/HP-hr (40 CFR 60.4233(e)); and,
 - c. CO: 2.0 g/HP-hr (40 CFR 60.4233(e)).
- [District Rules 1160, 1302 and 1320, and 40 CFR Subpart JJJJ]

8. 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).
[District Rule 1302]

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. This engine is one of five identical engines powering the facility under District Permit Numbers M013290, M013293, M013294, B013295, and B013296. Any two of the five engines can be operated simultaneously, regardless of their designation as a "B" permit or an "M" permit, as long as only two engines are providing power to the facility at any one time, except for a 10-minute load shifting period where one engine is being taken offline and another is being brought online.

In the event that two generators are insufficient to power the facility, the owner/operator must immediately submit a permit modification request to redesignate one of the three standby equipment units described in District permits B013290, B013293, or B013294 ("M" Permits) as a Basic Equipment Unit ("B" Permit).

[District Rules 219 and 1302]

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]