



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

B013044

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: JUNE 2020

OWNER OF OPERATOR (Co.#2373)

Kavry Management, LLC/Pro Grow
29122 Rancho Viejo Road, Ste 204
San Juan Capistrano, CA 92675

EQUIPMENT LOCATION (Fac.#3750)

Kavry Management, LLC/Pro Grow (Ext)
17130 Muskrat Ave. #A
Adelanto, CA 92301

Description:

NATURAL GAS IC ENGINE, GENERATOR, CANNABIS consisting of: Model Year 2014, 4SRB, non-certified engine, stack height 7 feet, stack diameter 3 inches, exhaust flow rate of 1042 cubic feet per minute at 932 degrees Fahrenheit, equipped with a Global Emissions Systems Inc Catalyst Model SRC466. Facility Elevation is 2939 feet above sea level.

One SRC, NG fired internal combustion engine Model No. 466TA Gen2 and Serial No. TBD, Turbo Charged, Selective Catalytic Reduction, Selective Catalytic Reduction, producing 310 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 1417 scf/hr. This equipment powers a Stamford Newage Generator Model No. UCI274G and Serial No. TBD, rated at 150 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	4.0	gm/bhp-hr
NOx	1.325	gm/bhp-hr
PM10	0.0095	gm/bhp-hr
PM2.5	0.0095	gm/bhp-hr
SOx	0.000588	gm/bhp-hr
VOC	1.0	gm/bhp-hr

CONDITIONS:

1. The owner/operator must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and

Fee Schedule: 1 (c)

Rating: 310 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

specifications submitted with the application for this permit.
[Derived from 60.4243(b)(2)(ii)]

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 and District Rule 1160 - Internal Combustion Engines.
[District Rule 204 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 1302(C)(2)(a) and Rule 1160(E)(1)(b)(i)b.]

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(g); District Rule 1160(E)(1)(b)(i)(c)]

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 maintenance and repair actions performed on the engine, the AFRC, and the catalytic converter, including date and description;
- e. Initial and all subsequent Performance Test results; and,
- f. Equipment operating location in lat/long.

[40 CFR 60.4243(b)(2)(ii) and 60.4245(a)(2); District Rule 1160(E)(1)(a)(i)]

7. The owner/operator must comply with either the g/bhp-hr or ppmvd emission standards over the entire life of the engine as indicated below. 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:

- a. NO_x: 106 ppmvd at 15% O₂ dry basis (District Rule 1160(C)(1)(i));
- b. CO: 4.0g/bhp-hr, 540 ppmvd at 15% O₂, and
- c. VOC 1.0 g/bhp-hr, 86 ppmvd at 15% O₂.

[Emission standards from Table 1 to Subpart JJJJ of Part 60; for NO_x from District Rule 1160]

8. The owner/operator must conduct an initial performance test within 180 days of engine startup, and conduct subsequent performance testing every 12 months, thereafter to demonstrate compliance with condition 7. If a compliance test demonstrates compliance with the provisions of this rule, the frequency of the compliance test may be extended to once every twenty (24) months (Rule 1160(E)(1)(b)(ii)(a)(1)).

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

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

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

10. Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results from sections 8.4 and 11.1.1.4; for Method 320, report results from sections 8.6.2, 9.0, and 13.0; and for ASTM D6348-03 report results of all QA/QC procedures in Annexes 1-7. [40 CFR 60.4245(d)]

11. 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/operator 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 District Rule 1160 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 District Rule 1160 or permit limits, and parameters out-of-range.
- d. Procedures and schedules for preventive and corrective maintenance.

[District Rule 1160; 40 CFR 60 Subpart JJJJ]

12. The owner/operator shall install, operate, and maintain in calibration, the following monitoring equipment:

- a. Continuous measurement and recording or emissions control system operating parameters.
- b. An automated data recording device or system having both data gathering and retrieval capabilities such as a continuous emissions monitoring system (CEMS) or parametric or predictive emissions monitoring (PEMS).

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

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]