



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

M013433

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, EMERGENCY STAND-BY GENERATOR (CANNABIS) consisting of: Year of Manufacture 2015+, Engine Family FPSIB11.1NGP, EPA Certificate of Conformity No. FPSIB11.1NGP-016. "Emission Rates" for NOx, CO, and VOC from EPA COC. PM and SOx are District Default (from AP42) emission factors. Stack Data H: TBD D: TBD Flow: 1425 cfm Temp: TBD

One Doosan/Power Solutions International, NG fired internal combustion engine Model No. 11.1L and Serial No. EEINF202162, Four-Stroke Rich Burn, Three-Way Catalyst (also NSCR), Inter Cooled, Air-To-Fuel Ratio Controller, producing 272 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 0.022 MMscf/hr. This equipment powers a Doosan Generator Model No. 432P5L6212 and Serial No. LM2415300302, rated at 125 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	2	gm/bhp-hr
NOx	1	gm/bhp-hr
PM10	19.4	lbs/MMscf
PM2.5	19.4	lbs/MMscf
SOx	0.588	lbs/MMscf
VOC	0.7	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: 10 (1c) Rating: 272 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.

Glorietta Management Group
16191 Kamana Road, Suite 202
Adelanto, CA 92307

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 is subject to the requirements of the New Source Performance Standards (NSPS) for Stationary Spark Ignition IC Engines (40 CFR 60, Subpart JJJJ) and District Rule 1160 - Internal Combustion Engines. In the event of conflict between these conditions and the aforementioned rules/regulations, the more stringent requirements shall govern.
[District Rule 1302]

3.This engine shall only be operated during maintenance or repair of Permit B013407. Further, this engine is not required to meet the emission limits and compliance testing requirements found in Conditions 8, 9, 14, 15, and 16 when used exclusively as an emergency electrical generator, defined as operating during loss of power from B013407 but no more than 200 hours total per year. In the event the 200 hour total per year is exceeded, the compliance test shall be completed within 60 days of the date the hour limit is exceeded.
[District Rule 1160(B)(2)(b); District Rule 1302]

4.This unit shall be fired on PUC-regulated pipeline quality natural gas only.
[40 CFR 60.4243]
[District Rule 1302(C)(2)(a)]

5.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)]

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

- a. Air-to-Fuel Ratio Controller (AFRC)
- 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]

7.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]

8.When operated as a non-emergency stand-by unit this engine shall comply with the following emission limits: // Pollutant //
g/bhp-hr
NOx (as NO2) // 0.5
CO // 2
VOC (as CH4) // 0.5
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[District Rule 1302; District Rule 1160; Engine is Certified Compliant with 40 CFR 63 Subpart JJJJ Table 1]

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 check of the difference of the exhaust temperatures at the inlet and outlet of the catalyst (changes in the temperature difference can indicate changes in the effectiveness of the catalyst);
 - b. Daily check for engine alarms;
 - c. Quarterly fuel use (in cubic feet or therms) and quarterly hours of operation, on a calendar quarter basis;
 - 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 15; and
 - g. Results of all engine inspections as required in Condition 9.
- 40 CFR 60.4245, 40 CFR 1048, District Rule 1160]

11. A temperature gauge shall be installed and maintained at the inlet and outlet of the three-way catalyst.
[District Rules 204 and 1302]

12. The maximum allowed exhaust temperature at the catalyst inlet is 1250 degrees Fahrenheit (or as otherwise specified by the catalyst manufacturer).
[District Rule 1160]

13. Engine control systems, such as air-to-fuel ratio controllers, shall have a malfunction indicator light and audible alarm. Owner/operator shall have written procedures for responding to emission control malfunctions.
[District Rule 1302; District Rule 1160]

14. 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 8.
[40 CFR 60.4243, 40 CFR 60.4244, District Rules 1160, 1303 and 1320]

15. 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 8. If a compliance test demonstrates compliance with condition 8, the testing frequency may be extended to once every 24 months. Failure of a compliance test, or failure to complete the test within the required frequency, resets the compliance test frequency to once every 12 months.
[40 CFR 60.4243(b)(2)(ii); District Rule 1160(E)(1)(d)]

16. 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)]

17. The facility must submit accurate emissions inventory data 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]