



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

B013540

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.#2539)

Beaver Farms South, Inc.
16171 Beaver Road, Bldg #4
Adelanto, CA 92301

EQUIPMENT LOCATION (Fac.#3956)

Beaver Farms South, Inc.
16179 Beaver Road, Bldg #4
Adelanto, CA 92301

Description:

NATURAL GAS IC ENGINE, GENERATOR, CANNABIS consisting of: Year of Mfg. 2013; 4SLB; Engine Model Year 2010; Engine is not certified but is described by manufacturer as compliant for 2013 Tier 2 Nonroad and Stationary standards. Engine emission rate details are taken from engine emission tag and AP42 and are subject to verification through compliance testing. Equipment elevation is 3027 feet above sea level. Aggreko GenSet; Model TBD, Serial TBD. Stack Exhaust Data: Height; 9 ft-2 inch Diameter; 0.67 ft

One Cummins, NG fired internal combustion engine Model No. QSK19 and Serial No. 37236443, Direct Injected, Turbo Charged, After Cooled, Air-To-Fuel Ratio Controller, Electronic Control Module, Two-Stroke Lean Burn, Oxidation Catalyst, Piston Scavenged, producing 600 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 5760 scf/hr. This equipment powers a Cummins Generator Model No. 315GFBA/A and Serial No. TBD, rated at 400 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	2.0	gm/bhp-hr
NOx	0.68	gm/bhp-hr
PM10	7.71e-5	gm/bhp-hr
SOx	5.88e-4	gm/bhp-hr
VOC	0.7	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (c)

Rating: 600 bhp

SIC: 191

SCC: 20100202

Location/UTM(Km):
457E/3822N

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.

Beaver Farms South, Inc.
1300 North Mountain View
San Bernardino, CA 92405

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

1. This stationary, spark-ignited, internal combustion engine and its associated control devices 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; 40 CFR 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, subpart 60.4243]
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 PUC regulated Pipeline quality natural gas fuel.
[District Rule 431 and 1302; 40 CFR 60.4243]
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 combined hours of operation from this engine and that with District Permit M014198 shall not exceed 6,000 hours per year (rolling 12 month summary).
[District Rule 1520]
6. This unit shall not operate simultaneously with the equipment described in District permit M014198 except during start-up of one unit and ramp-down/shut-down of the other.
[District Rule 1302(C)(2)(a)]
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(g); District Rule 1160(E)(1)(b)(i)]
8. 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 latitude and longitude.
[40 CFR 60.4243(b)(2)(ii) and 60.4245(a)(2); District Rule 1160(E)(1)(a)(i)]
9. The owner/operator must comply with the g/bhp-hr or ppmvd 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. NOx: 0.68 g/bhp-hr (41 ppmvd at 15% O₂);
 - b. CO: 2.0 g/bhp-hr, or 270 ppmvd at 15% O₂, and
 - c. VOC 0.7 g/bhp-hr (60 ppmvd at 15% O₂)
[Emission standards from Table 1 to Subpart JJJJ of Part 60 except NOx which is limited to 0.68 g/Bhp-hr to preclude triggering daily NOx BACT threshold of 25 Lbs/Day; 40 CFR Part 60.4233(e); District Rule 1303]
10. 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 9. If a compliance test demonstrates compliance with condition 9, 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)]

11. 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]

12. Pursuant to District Rule 1160, the owner/operator shall perform compliance testing in accord with the following test procedures or any other method approved by USEPA and the APCO:

a. Oxides of nitrogen - EPA Method 7E, or ARB Method 100.

b. Carbon monoxide - EPA Method 10, or ARB Method 100.

c. Stack gas oxygen - EPA Method 3 or 3A, or ARB Method 100.

d. Volatile organic compounds - EPA Method 18, 25A or 25B, or ARB Method 100.

e. Determination of the exempt compounds, shall be performed in accordance with ASTM Test Method D 4457-85 (Solvents and Coatings) and be consistent with the provisions set forth in the Federal Register (FR, Vol. 56, No. 52, March 18, 1991). Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility operator identifies a specific compound or compounds from the broad classes of perfluorocarbons listed in 40 CFR 51.100(s)(1) as being present in the product or process. When such compounds are identified, the facility shall provide the test method to determine the amount(s) of the specific compound(s).

[District Rule 1160]

13. 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.

a. 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. Each inspection shall include the following:

1. Date.

2. Records of testing, as applicable.

3. Records of maintenance.

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

14. 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)]

15. This engine shall be installed and operated within 10 meters of the 34.54324 latitude/-117.45953 longitude.

[District Rule 1320]

16. 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]