



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

B012959

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: JUNE 2025

OWNER OF OPERATOR (Co.#2379)

Karem Aircraft, Inc.
13190 Perimeter Road
Victorville, CA 92394

EQUIPMENT LOCATION (Fac.#3759)

Karem Aircraft, Inc.
13190 Perimeter Road
Victorville, CA 92394

Description:

DIESEL IC ENGINE, PORTABLE GENERATOR consisting of: Year of Manufacturer 2017, Tier IV Final, CARB Engine Family, HVPXL16.1CDC, Certification EO # U-R-014-0161, equipped with SCR. Test stand used for aircraft engine testing which is designated as a stationary RICE test cell/stand which are exempt from the requirements of 40 CFR Part 63 Subpart ZZZZ pursuant to §63.6585. Test stand may be fixed or trailer mounted. Please note for operational flexibility this engine may but is not required to move to different locations within the fenced limited access portion of SCLA. It is permitted as a portable engine but meets the more rigorous specifications of a stationary engine. This engine may be used in conjunction with a 44 hp CAT C2.2T under District permit B014207.

One Volvo Penta, Diesel fired internal combustion engine Model No. TWD1672GE and Serial No. PK-28-301, Direct Injected, Electronic Control Module, Selective Catalytic Reduction, Selective Catalytic Reduction, Smoke Puff Limiter, Turbo Charged, producing 836 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 39 gal/hr. This equipment powers a Gillette Generator Model No. T4D-5500 and Serial No. 2016118826, rated at 60 HZ.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.45	gm/bhp-hr
NOx+NMHC	0.25	gm/bhp-hr
PM10	0.01	gm/bhp-hr
PM2.5	0.01	gm/bhp-hr
SOx	0.01	gm/bhp-hr
VOC	0.00	gm/bhp-hr

Fee Schedule: 1 (c)

Rating: 836 bhp

SIC: 3721

SCC: 20100102

Location/UTM(Km):
465E/3829N

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.

Karem Aircraft, Inc.
1 Captial Drive
Lake Forest, CA 92630

By: **COPY**
Brad Poiriez
Executive Director

CONDITIONS:

1. This certified stationary compression-ignited internal combustion engine shall be installed, operated and maintained in strict accord 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(c)(2)]

2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

[17 CCR Section 93115.10(d)]

3. This engine shall not be operated unless all of the following emission control systems are properly functioning including but not limited to the Selective Catalytic Reduction system. Furthermore, no changes shall be made to any of the emission control systems unless done so by a factory certified technician.

[40 CFR 60.4211, District Rule 1302]

4. This equipment shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines:

a. Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight basis; and,

b. A cetane index or aromatic content, as follows:

1. A minimum cetane index of 40; or,

2. A maximum aromatic content of 35 volume percent.

Note: Use of CARB certified ULSD fuel satisfies the above requirements.

[17 CCR 93115.5(a) and 40 CFR 60.4207(b)]

5. This engine shall not be operated except when located within the fenced portion of the airport which includes the tarmac, and shall not be located closer than 500 meters (1640 feet) to any receptor.

[District Rules 1320 and 1520]

6. The operating hours for the engine test stand and prime power engines under B012959 and B014207 shall (each) not exceed 16 hours per day and 2190 hours per year in any twelve month period.

[District Rule 1303]

7. 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)]

8. The owner/operator shall maintain an operations log for the prime power diesel engine, current and on-site (or at a central location), for a minimum of three (3) years. This log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the following information:

a. Date of operation;

b. Hours of operation (hours/day);

c. Proximity (meters) to closest fence line;

d. Location of use if not located at the lat/long specified on this permit;

e. Fuel concentration requirements as required by condition #4;

f. Date of each maintenance action or repair;

g. Description of each maintenance action or repair;

- h. Results of any source testing conducted on the engine.
- i. Inspection records as required by condition #7
[40 CFR 60.4211(g), 40 CFR 60.4214(c), District Rules 204, 1160, 1320 and Rule 1520]

The owner/operator shall maintain an operations log for the test stand current and on-site (or at a central location) for a minimum of three (3) years, This log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the following information:

- a. dates of operation; and
 - b. manufacturer and model number of the engine being operated; and
 - c. daily hours of operation; and
 - d. fuel used and amount in gallons per testing event.
- [District Rule 204]

9. The prime power diesel fired engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines and 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (NSPS). In the event of a conflict between these conditions and the ATCM or NSPS, the more stringent requirements shall govern.
[District Rule 1302]

10. 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]