



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

PERMIT TO OPERATE

E012801

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

EXPIRES LAST DAY OF: NOVEMBER 2026

OWNER OF OPERATOR (Co.#88)

NAWS
429 E Bowen Road - Stop 4014
China Lake, CA 93555-6108

EQUIPMENT LOCATION (Fac.#567)

NAWCWD Test Stands
429 E Bowen Road - Stop 4014
China Lake, CA 935556108

Description:

DIESEL IC ENGINE, RELOCATABLE EMERGENCY GENERATOR (SOUTH RANGE) consisting of: An EPA certified Tier 4 Final Diesel engine, USEPA Family FPKXL04.4MU1, manufactured in 2015 and equipped with Factory installed emission control devices. Exhaust flow is 742 acfm at 829 degrees Fahrenheit:

One Perkins, Diesel fired internal combustion engine Model No. 1204F-E44TTA and Serial No. MU51854U007880A, Direct Injected, Turbo Charged, After Cooled, Selective Catalytic Reduction, Diesel Oxidation Catalyst, Electronic Control Module, Compression-Ignited, Selective Catalytic Reduction, Ammonia Oxidation Catalyst, Diesel Exhaust Fluid (DEF) Tank, producing 173 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 8.7 gal/hr. This equipment powers a Stamford Generator Model No. UCI274D1 and Serial No. M15G282027, rated at 100 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.022	gm/bhp-hr
NOx	0.209	gm/bhp-hr
PM10	0.015	gm/bhp-hr
PM2.5	0.015	gm/bhp-hr
SOx	0.005	gm/bhp-hr
VOC	0.008	gm/bhp-hr

Fee Schedule: 7 (g)

Rating: 1 device

SIC: 9711

SCC: 20100102

Location/UTM(Km):
450E/3946N

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.

NAWS
Environmental Management Division
China Lake, CA 93555-6108

By: **COPY**
Eldon Heaston
Air Pollution Control Officer

CONDITIONS:

1. This certified stationary compression-ignited internal combustion engine and its associated emission control systems 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 air 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 1160; 40 CFR 60.4211(a)]

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

- (a) Diesel Oxidation Catalyst
- (b) Electronic Control Module
- (c) Exhaust Gas Recirculation
- (d) SCR-Urea
- (e) Ammonia Oxidation Catalyst

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.

[District Rules 1302 and 1320; 40 CFR 60.4211]

3. The owner/operator must purchase diesel fuel for this engine that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, which are as follows:

- (a) A 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.

[40 CFR 60.4207(b)]

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

4. The owner/operator shall maintain an operations log for this engine 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) Date of each use and duration of each use (in hours);
- (b) Reason for each use (testing & maintenance, emergency, emission testing, etc.);
- (c) Monthly and calendar year operation in terms of total hours; and
- (d) Records of all maintenance and repair actions performed on the engine and all emission control systems listed in Condition 2 above.

[District Rule 1302; 40 CFR 60.4245; 40 CFR 1048]

5. This engine may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.

[District Rule 1302]

6. This unit shall not be used to provide power during a voluntarily agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.

[40 CFR 60.4243(d), 60.4248]

7. This engine is subject to the requirements of the New Source Performance Standards (NSPS) for Stationary Compression Ignition IC Engines (40 CFR 60, Subpart IIII).

[40 CFR 60, Subpart IIII, District Rule 1302]

8. This engine meets all emission limits of 40 CFR 60 subpart IIII and 17 CCR 93115 for use as a stationary emergency engine and therefore may be used to provide intermittent emergency power to stationary test sites throughout the South Range area of operations and relocated to protected locations when not in use to prevent exposure to severe weather and damage from stray projectiles.

[District Rule 204; 17 CCR 93115; 40 CFR 60 Subpart IIII]

9. This unit shall be limited to emergency use only, as defined in 40 CFR 63.6640(f). In addition, this unit shall be operated no more than 25 hours per rolling consecutive twelve-month period for testing and maintenance, including compliance source testing.

[District Rule 204; 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]