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

E012272

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: OCTOBER 2027

OWNER OF OPERATOR (Co.#69)

Southern California Edison
P.O. Box 5085
Rosemead, CA 91770

EQUIPMENT LOCATION (Fac.#933)

SCE - Lugo Substation
6655 Escondido Street
Hesperia, CA 92345

Description:
DIESEL IC ENGINE, EMERGENCY GENERATOR consisting of: A certified Tier 2 engine, EPA Family EMDDL21.0ZWR, manufactured in 2014 with no exhaust after-treatment device installed. Exhaust stack is 12.2 feet high and 0.66 feet in diameter with an exhaust flow of 7503,623 CFM at 862 degrees F.

One MTU, Diesel fired internal combustion engine Model No. 10V1600DS500 and Serial No. 16601003047, Inter Cooled, Turbo Charged, producing 752 bhp with 10 cylinders at 1800 rpm while consuming a maximum of 33.1 gal/hr. This equipment powers a Marathon Generator Model No. 572RSL4029 and Serial No. MT-0015456-1214, rated at 500 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.447	gm/bhp-hr
NOx	6.79	gm/bhp-hr
PM10	0.0298	gm/bhp-hr
SOx	0.0040	gm/bhp-hr
VOC	0.112	gm/bhp-hr

CONDITIONS:

Fee Schedule: 7 (g) | Rating: 1 device | SIC: 4911 | SCC: 20100202 | Location/UTM(Km): 473E/3808N

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.

Southern California Edison
P.O. Box 5085

Rosemead, CA 91770

By: **COPY**
Brad Poiriez
Executive Director

UNOFFICIAL

1. This certified stationary compression-ignited internal combustion engine 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.
[40 CFR 60.4211(a)]

2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this equipment to indicate elapsed engine operating time.
[17 CCR 93115.10(d)]

3. 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:
i. A minimum cetane index of 40; or,
ii. A maximum aromatic content of 35 volume percent.
Note: Use of CARB certified ULSD fuel satisfies the requirements of subparagraph 3.b above.
[17 CCR 93115.5(a), 40 CFR 60.4207(b) and 40 CFR 1090.305]

4. This engine shall be limited to use for emergency power, defined as in response to a fire or flood, or when commercially available power has been interrupted. In addition, this engine shall be operated no more than 50 hours per year for testing and maintenance. Engine operation for emergency use and for emission testing to show compliance with 93115.6(a)(3) does not count toward the testing and maintenance limit of 50 hours per year.
[17 CCR 93115.6(a)(3)(1)(c)]

5. The owner/operator shall maintain an operations log for this engine current and on-site (or at a central location) for a minimum of three (3) 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 use (testing & maintenance, emergency, required emission testing, etc.);
c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and/or total hours;
d. Fuel sulfur concentration as required by condition 3 (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log); and,
e. Maintenance performed on this equipment.
[17 CCR 93115.10(f)]

6. This equipment may operate in response to an 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 may be operated no more than 30 minutes prior to the forecasted outage and must be shut down immediately after the utility advises that the outage is no longer imminent or in effect.
[17 CCR 93115.6(a)(2)]

7. This equipment shall not be used to provide power during a voluntary 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.
[17 CCR 93115.6(c)(1)(C)]

8. This engine is subject to the requirements of 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 17 CCR 93115, the Airborne Toxic Control Measure for Stationary Compression Ignition Engines.
[40 CFR 60, Subpart IIII and 17 CCR 93115]

9. 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, 17 CCR 93400 et seq., and 40 CFR 51, Subpart A]