



# 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

E014977

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: MARCH 2027**

### OWNER OF OPERATOR (Co.#1982)

Needles, City of  
817 Third Street  
Needles, CA 92363

### EQUIPMENT LOCATION (Fac.#4331)

City of Needles - WWTP  
516 East Broadway  
Needles, CA 92363

#### Description:

DIESEL IC ENGINE, EMERGENCY GENERATOR consisting of: A Certified Tier 1 diesel engine, USEPA family XCPXL10.5MRD, manufactured in 1999 with no exhaust after-treatment device installed. This existing institutional emergency stationary RICE (as defined at 40 CFR 63.6675) is located at an area source of HAP emissions and is operated in accordance with the provisions specified under 40 CFR 63.6640(f); therefore, is exempt from the requirements of 40 CFR Part 63, Subpart ZZZZ.

One Cummins, Inc., Diesel fired internal combustion engine Model No. 3306B and Serial No. 9NR03497, Direct Injected, Turbo Charged, After Cooled, Smoke Puff Limiter, producing 382 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 18.9 gal/hr. This equipment powers a Caterpillar Generator Model No. SR4 and Serial No. TBD, rated at 250 kW.

#### EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	1.4	gm/bhp-hr
NOx	4.6	gm/bhp-hr
PM10	0.11	gm/bhp-hr
PM2.5	0.11	gm/bhp-hr
SOx	0.0048	gm/bhp-hr
VOC	0.19	gm/bhp-hr

#### CONDITIONS:

Fee Schedule: 7 (g)

Rating: 382 device

SIC: 9199

SCC: 20100102

Location/UTM(Km):  
720E/3856N

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.

Needles, City of  
817 Third Street  
Needles, CA 92363

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

1. This certified Tier 1 stationary compression-ignited internal combustion engine, and any associated air pollution control equipment, 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]

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.

[17 CCR 93115.5(a); 40 CFR 80.510(b)]

Note: Use of CARB certified ULSD fuel satisfies these requirements.

4. The owner/operator shall maintain an operations log for this equipment 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/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:

a. Date(s) of each use and duration of each use (in hours);

b. Reason for use (regular testing & maintenance, NFPA testing & maintenance, emergency, etc.);

c. Monthly and rolling 12 month period operation in terms of fuel consumption (in gallons) and/or total hours (both emergency and non-emergency use, classified as described in b. above);

d. Fuel sulfur concentration as required by condition #3 (the o/o 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)]

5. 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 6 hours per day, nor more than 50 hours per year for testing and maintenance.

[District Rule 1303; 17 CCR 93115.6(a)(3)(A)(1)(c)]

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 Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines. In the event of a conflict between these conditions and the ATCM, the more stringent requirements shall govern.

[District Rule 1302; 17 CCR 93115]

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