



# 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

E013478

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: NOVEMBER 2026**

### OWNER OF OPERATOR (Co.#84)

NTC - Public Works  
Bldg 602, 5th Street  
Fort Irwin, CA 92310

### EQUIPMENT LOCATION (Fac.#2340)

Barstow - Daggett Heliport  
39500 National Trails Hwy  
Daggett, CA 92327

### Description:

DIESEL IC ENGINE, EMERGENCY WATER PUMP consisting of: A Certified Tier IV Final diesel engine, USEPA Family KDZXL03.6018, CARB Executive Order U-R-013-0576, manufactured in 2019. Exhaust flow is 499.6 cfm at 802.4 degrees F through an 9.3 foot high by 2.5 inch diameter stack. Equipment elevation is 1916 feet above sea level.

One Deutz, Diesel fired internal combustion engine Model No. TO 3.6 L4 T4F and Serial No. 11714861, Direct Injected, Turbo Charged, Exhaust Gas Recirculation, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Electronic Control Module, producing 74.2 bhp with 4 cylinders at 2200 rpm while consuming a maximum of 4.5 gal/hr. This equipment powers a Johnston Pump Co. Pump Model No. 10 GMC and Serial No. 98J61255, rated at 206 bhp.

### EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.373	gm/bhp-hr
NOx	2.610	gm/bhp-hr
NOx+NMHC	2.610	gm/bhp-hr
PM10	0.015	gm/bhp-hr
PM2.5	0.015	gm/bhp-hr
SOx	0.006	gm/bhp-hr
VOC	2.610	gm/bhp-hr

Fee Schedule: 7 (g)

Rating: 1 device

SIC: 9711

SCC: 20100102

Location/UTM(Km):  
519E/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.

NTC - Public Works  
Attn: Air Resources Manager  
  
Fort Irwin, CA 92310

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

## CONDITIONS:

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.

[17 CCR 93115.5(a), 40 CFR 80.510(b), and 40 CFR 60.4207(b)]

Note: Use of CARB certified ULSD fuel satisfies these 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 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 rolling 12 month period operation in terms of fuel consumption (in gallons) or total hours;
- 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 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)]

6. This 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]

7. 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. Furthermore, this engine shall not operate for more than 9 hours in any one day for maintenance and/or testing.

[17 CCR 93115.6(a)(3)(1)(c); District Rules 1302 and 1320]

8. 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]