**MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT**
14306 Park AvenueVictorville,CA92392-2310
760.245.1661 -- 800.635.4617 -- FAX760.245.2022

# AUTHORITY TO CONSTRUCT

E014948

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:FEBRUARY 2026

## OWNER OF OPERATOR (Co.#508)

Union Pacific Railroad Co
2015 S Willow St. Manager of Env Field Ops
Bloomington,CA92316

## EQUIPMENT LOCATION (Fac.#1179)

UPRR Yermo Yard
1 Union Pacific Blvd
Yermo,CA92398

**Description:**
DIESEL IC ENGINE, EMERGENCY FIRE PUMP consisting of:A Certified Tier 3 diesel engine, USEPA family NJDXL09.0114, manufactured in 2023. Exhaust flow approximately 2214 acfm, at 826 degrees Fahrenheit through a 6.27 foot high by 0.5 foot diameter exhaust stack. Facility elevation is 1942 feet above MSL.

OneJohn Deere,Diesel fired internal combustion engine Model No.6090HFC47 and Serial No.TBD,After Cooled,Turbo Charged, producing311 bhp with6 cylinders at2100 rpm while consuming a maximum of16.8gal/hr. This equipment powers aClarkeFire Pump Model No.TBD and Serial No.TBD, rated atTBD.

### EMISSIONS RATES

| Emission Type | Est. Max Load | Unit |
|---|---|---|
| CO | 0.662 | gm/bhp-hr |
| NOx | 2.795 | gm/bhp-hr |
| PM10 | 0.0809 | gm/bhp-hr |
| PM2.5 | 0.080 | gm/bhp-hr |
| SOx | 0.0052 | gm/bhp-hr |
| VOC | 0.0367 | gm/bhp-hr |

## CONDITIONS:

1.This Certified Tier 3 stationary compression-ignited internal combustion engine, and any associated air pollution control equipment,

Fee Schedule:7 (g) Rating:1device SIC:4013 SCC:20100102 Location/UTM(Km):518E/3863N

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.

Union Pacific Railroad Co
2401 E. Sepulveda Blvd.

Long Beach,CA90810

By: **COPY**
Brad Poiriez
Air Pollution Control Officer

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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.
[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(c), and 40 CFR 60.4207(b)]
Note: Use of CARB certified ULSD fuel satisfies these requirements.

4.This equipment 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 unit shall be operated no more than 13 hours per day and 50 hours per year for testing and maintenance.
[District Rule 1303 - basis: daily limit for BACT; 17 CCR 93115.6(b)(3)]

5.The hour limits indicated in condition 4, above, do not apply to in-use emergency fire pump assemblies that are driven directly by stationary diesel-fueled CI engines and only operated the number of hours necessary to comply with the testing requirements of National Fire Protection Association (NFPA) 25 "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 2002 edition, which is incorporated herein by reference.
[17 CCR 93115.3(n)]

6.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 hours of operation;
b. Reason for use (regular maintenance & testing, NFPA maintenance & testing, 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 above (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)]

7.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]

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]