



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

E012659

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: SEPTEMBER 2025

OWNER OF OPERATOR (Co. #22)

BNSF Railway Company
740 East Carnegie Drive
San Bernardino, CA 92408

EQUIPMENT LOCATION (Fac. #236)

BNSF Railway Co - Barstow
200 North Avenue H
Barstow, CA 92311

Description:

DIESEL IC ENGINE, EMERGENCY FIRE PUMP consisting of: A certified Tier 3 Diesel engine, EPA Family GJDXL13.5103, manufactured in 2016 with no exhaust after-treatment device installed. Equipment elevation is 2166 feet above sea level.

One John Deere, Diesel fired internal combustion engine Model No. 6068HF485D, Q and Serial No. PE6068N000541, Turbo Charged, producing 238 bhp with 6 cylinders at 2100 rpm while consuming a maximum of 11.7 gal/hr. This equipment powers a Clarke/SPP Pumps Fire Pump Model No. TF15E and Serial No. USA-01-16-6579, rated at 1250 gpm.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.447	gm/bhp-hr
NOx	2.47	gm/bhp-hr
PM10	0.075	gm/bhp-hr
PM2.5	0.074	gm/bhp-hr
SOx	0.005	gm/bhp-hr
VOC	0.110	gm/bhp-hr

CONDITIONS:

1. This equipment 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 contaminants. Unless otherwise

Fee Schedule: 7 (a)

Rating: 1 device

SIC: 4013

SCC: 20100102

Location/UTM(Km): 493E/3861N

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.

BNSF Railway Company
740 East Carnegie Dr

San Bernardino, CA 92408-3571

By: **COPY**

Brad Poiriez

Air Pollution Control Officer

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; District Rule 204]

1.This equipment 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 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; District Rule 204]

2.A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.
[40 CFR 60.4209; Title 17 CCR 93115.10(d)]

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[40 CFR 60.4209; Title 17 CCR 93115.10(d)]

3.This engine 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:
 - 1. A minimum cetane index of 40; or,
 - 2. A maximum aromatic content of 35 volume percent.

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

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

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- 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.

[17 CCR 93115.5(a), 40 CFR 60.4207(b) and 40 CFR 1090.305]

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

4.This unit shall be limited to emergency use only, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 50 hours per rolling consecutive twelve month period for testing and maintenance, unless NFPA-25 (current edition) authorizes additional time: If the 50 hour limit is exceeded due to NFPA requirements, the owner/operator is to have the authorizing section of NFPA 25 available for review at all times. Time required for source testing will not be counted toward the 50 hour rolling annual limit.

[17 CCR 93115.6(b), District Rule 204]

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[17 CCR 93115.6(b), District Rule 204]

5.The owner/operator shall maintain an operations log for this unit 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 information specified below:

- a. Date of each use and duration of each use (in hours per hour meter);
- b. Reason for use (testing & maintenance, emergency, required emission testing);
- c. Rolling consecutive twelve month period operation in terms of fuel consumption (in gallons) or total hours;
- d. Records of all maintenance and inspections; and,

e. Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log).

[40 CFR 70.6(a)(3)(ii)(b), 40 CFR 60.4214, 17 CCR 93115.10(f), District Rule 204]

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- a. Date of each use and duration of each use (in hours per hour meter);
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[40 CFR 70.6(a)(3)(ii)(b), 40 CFR 60.4214, 17 CCR 93115.10(f), District Rule 204]

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.

[District Rule 204]

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.

[District Rule 204]

7. 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]

7. 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]