



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

B014919

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: NOVEMBER 2025

OWNER OF OPERATOR (Co. #1657)

CH2M Hill Services
P.O. Box 10450
Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #2806)

Fort Irwin Wastewater Treatment Plant
Wastewater Treatment Plant, Bldg 700
Fort Irwin, CA 92310

Description:

DIESEL IC ENGINE, PORTABLE* PUMP consisting of: A certified Tier 4f diesel engine, USEPA Family NYDXL03.3TDA, manufactured in 2022 and equipped with factory-installed emission control. Exhaust flow is TBD at TBD degrees Fahrenheit through a TBD foot tall by TBD inch diameter stack: *Please note, this equipment may be operated at various locations at this facility, however emissions comply with the stationary requirements of 17 CCR 93115 and 40 CFR 60, Subpart IIII.

One Yanmar, Diesel fired internal combustion engine Model No. 4TNV98CT-NVT and Serial No. YD332DTCDV4A, Direct Injected, Diesel Particulate Filter, Periodic Trap Oxidizer, Turbo Charged, producing 72 bhp with 4 cylinders at 2500 rpm while consuming a maximum of 4.03 gal/hr. This equipment powers a TBD Pump Model No. PPGSA6W8-4TNV980 and Serial No. PPG23308, rated at 54 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	3.73	gm/bhp-hr
NOx	2.48	gm/bhp-hr
NOx+NMHC	3.50	gm/bhp-hr
PM10	0.022	gm/bhp-hr
PM2.5	0.022	gm/bhp-hr
SOx	0.0054	gm/bhp-hr
VOC	0.13	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (b) Rating: 72 bhp SIC: 9511 SCC: 20100102 Location/UTM(Km): 511E/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.

CH2M Hill Services
P.O. Box 10450

Fort Irwin, CA 92310

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

1.This certified Tier 4 Final compression-ignited internal combustion engine and its associated emission control systems 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.
[District Rule 1302; 40 CFR 60.4211(a)]

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[District Rule 1302; 40 CFR 60.4211(a)]

2.This engine shall not be operated unless all of the following emission control systems are properly functioning:
a. Diesel Particulate Filter;
b. Periodic Trap Oxidizer; and,
c. Turbocharger.

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.
[District Rule 1302; 40 CFR 60.4211]

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a. Diesel Particulate Filter;
b. Periodic Trap Oxidizer; and,
c. Turbocharger.

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.
[District Rule 1302; 40 CFR 60.4211]

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:
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.

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:
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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) and 40 CFR 80.510(c)]
Note: Use of CARB certified ULSD fuel satisfies the above requirements.

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

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[Title 17 CCR 93115.10(d)]

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 five (5) 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, location, and duration of each use;
 - b. Monthly and consecutive 12 month period hour meter readings, including the dates of all monthly readings;
 - c. Date of each maintenance action or repair on any equipment noted in Condition #2;
 - d. Description of each maintenance action or repair on any equipment noted in Condition #2;
 - e. Fuel sulfur concentration as required by condition #3 (you may use the supplier's certification of sulfur content if it is maintained as part of this log);
 - f. Calendar year operating hours as determined by the installed hour meter (to assist in CEI calculations); and
 - g. Results of any source testing conducted on the engine.
- [District Rules 1302 and 1320; Title 17 CCR 93115]

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 - g. Results of any source testing conducted on the engine.
- [District Rules 1302 and 1320; Title 17 CCR 93115]

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]

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[District Rule 1302]

7. This engine may be relocated throughout the NTC in support of operations without prior notification being sent to the District, but shall not be used within 500 meters of any residence, hospital, or other sensitive receptor location. Sensitive receptor locations include, but are not limited to, hospitals and day care centers, and such other locations as the District board or California Air Resources Board may determine.

[District Rule 204 and H&S Code 42705.5(a)(5)]

7. This engine may be relocated throughout the NTC in support of operations without prior notification being sent to the District, but shall not be used within 500 meters of any residence, hospital, or other sensitive receptor location. Sensitive receptor locations include, but are not limited to, hospitals and day care centers, and such other locations as the District board or California Air Resources Board may determine.

[District Rule 204 and H&S Code 42705.5(a)(5)]

8. This engine may be relocated throughout the NTC in support of operations without prior notification being sent to the District, but shall not be used within 1,000 feet of any K-12 school.

[District Rule 204 and H&S Code 42301.6]

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[District Rule 204 and H&S Code 42301.6]

9.This entire facility (MDAQMD Facility no. 2806 - Fort Irwin Wastewater Treatment Plant) shall not emit any regulated air pollutant or any pollutant listed under section 112(b) of the Clean Air Act listed below in excess of the following limits in any consecutive 12 month period to remain below the USEPA's Synthetic Minor - 80% (SM-80) threshold:

- a. Oxides of Nitrogen (NOx): 20 tons per consecutive twelve (12) month period, measured as NO₂;
- b. Oxides of Sulfur (SOx): 20 tons per consecutive twelve (12) month period;
- c. Volatile Organic Compounds (VOC): 20 tons per consecutive twelve (12) month period;
- d. Carbon Monoxide (CO): 80 tons per consecutive twelve (12) month period;
- e. Hydrogen Sulfide (H₂S): 8 tons per consecutive twelve (12) month period;
- f. Lead (Pb): 0.48 tons per consecutive twelve (12) month period; and,
- g. Particulate Matter 10 microns and less (PM₁₀): 12.0 tons per consecutive twelve (12) month period;
- h. Any single Hazardous Air Pollutant (HAP): 8 tons per consecutive twelve (12) month period; and,
- i. All HAPs combined: 20 tons per consecutive twelve (12) month period.

For the purposes of implementation of the Title I (Part D) Nonattainment New Source Review (nonattainment NSR), Title I (Part C) Prevention of Significant Deterioration (PSD), and Title V Operating Permit Programs under the Clean Air Act, Facility refers to a stationary source, or group of stationary sources that are located on one or more contiguous or adjacent properties that are owned, operated, supervised, or controlled by one or more Department of Defense (DoD) component(s) that were disaggregated during the course of major source determination(s), based upon appropriate industrial groupings and support facility relationships. Compliance with these limits shall be demonstrated through the submission of an installation-wide Comprehensive Emission Inventory (CEI) for all emitted regulated air pollutants or any pollutant listed under section 112(b) of the Clean Air Act (including 12 month emissions summary). Exceedance of these emission limits may trigger offsets, BACT, and/or require submission of a Title V permit application. [District Rules 1302 and 1303, 40 CFR 51.165, 40 CFR 52.21(b), 40 CFR 70.2 and "Major Source Determinations for Military Installations under the Air Toxics, New Source Review, and Title V Operating Permit Programs of the Clean Air Act," memorandum from John S. Seitz, Director, Office of Air Quality Planning and Standards, (Aug. 2, 1996)]

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10.This entire facility (MDAQMD Facility no. 2806 - Fort Irwin Wastewater Treatment Plant) shall not emit any Hazardous Air Pollutants (HAP) listed in or pursuant to Section 112(b) of the Clean Air Act in excess of the following limits in any consecutive 12 month period to remain below the USEPA's Synthetic Minor - 80% (SM-80) threshold:

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For the purposes of determining the applicability of Section 112 air toxics requirements under the Clean Air Act, Facility refers to a stationary source, or group of stationary sources that are located within a contiguous area and under common control. Compliance with

these limits shall be demonstrated through the submission of an installation-wide Comprehensive Emission Inventory (CEI) for all emitted pollutants listed under section 112 (b) (including 12 month emissions summary). Exceedance of these emission limits may trigger National Emission Standards for Hazardous Air Pollutants (NESHAP) or Maximum Achievable Control Technology (MACT) standards.
[40 CFR 63.2]

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[40 CFR 63.2]

11.A Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants located at this military installation (including, but not limited to, MDAQMD Facility nos. 589, 2806, 3023, 3280, 3534, and 3903) must be submitted to the District, in a format approved by the District, upon District request. For the purposes of CEI, Facility is defined as every structure, appurtenance, installation, and improvement on land which is associated with a source of air releases or potential air releases of a hazardous material.
[District Rule 107(b), H&S Code 39607, 44304 and 44341-44342]

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[District Rule 107(b); H&S Code 39607 & 44341-44342; 17 CCR 93400 et seq.; and 40 CFR 51, Subpart A]