



**MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT**

14306 Park Avenue Victorville, CA 92392-2310  
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

**INACTIVE**

B009478

Inactive type Permit has no description information.

**EXPIRES LAST DAY OF: SEPTEMBER 2014**

**OWNER OF OPERATOR (Co.#133)**

NASA/Goldstone  
93 Goldstone Rd.  
Fort Irwin, CA 92310

**EQUIPMENT LOCATION (Fac.#611)**

NASA/Goldstone Deep Space Communications Complex  
Goldstone Lake  
Fort Irwin, CA 92311

**Description:**

DIESEL IC ENGINE, PORTABLE DRILL consisting of: Year of Mfg tbd, Portable Hydraulic Drill, Diesel PM emission rate 0.163 g/bhp-hr

One Deutz, Diesel fired internal combustion engine Model No. BF4M2011 and Serial No. 1069512, producing 64 bhp with 4 cylinders at 1850 rpm while consuming a maximum of 5.0 gal/hr. This equipment powers a Hydraulic Drill Driller Model No. and Serial No. , rated at .

**EMISSIONS RATES**

Emission Type	Est. Max Load	Unit
CO	1.455	gm/bhp-hr
HC	0.278	gm/bhp-hr
NOx	4.868	gm/bhp-hr
PM10	0.163	gm/bhp-hr
VOC	0.278	gm/bhp-hr

**CONDITIONS:**

1. This 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.

Fee Schedule: 1 (b)

Rating: 64 bhp

SIC: 9661

SCC: 20300101

Location/UTM(Km):  
517E/3906N

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.

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

2. This diesel ICE and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. (This system must be moved within this facility or moved to another facility annually.) [Title 17 CCR 93116.2(bb)]

3. This unit shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements; or alternative diesel fuel or CARB diesel fuel utilizing fuel additives that has been verified through the Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines. [Title 17 CCR 93116.3(a)]

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time by January 1, 2012. [Title 17 CCR 93116.4(c)(2)(A)]

5. This portable diesel-fueled engine (unit) shall be certified to meet a federal or California standard for newly manufactured nonroad engines pursuant to 40 CFR Part 89 or Title 13 CCR Section 2423 (Title 17 CCR Section 93116.3 (b)(2))

6. The o/o shall maintain a operations log for this unit 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 information specified below:

- a. Date of each use and duration of each use (in hours);
- b. Reason for use (Regular use, testing & maintenance, emergency, required emission testing);
- c. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
- d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log). [Title 17 CCR 93116.4(c)]

7. The o/o of this unit must submit a Status Report for the entire fleet\* by March 1, 2011. This Status Report should include, but not limited to, the following, for details see Title 17 CCR 93116.4(e)(1):

- a. The fleet's weighted average PM emission rate for the 2010 calendar year,
- b. Inventory of portable engines in the fleet,
- c. Identify, if applicable, each portable diesel-fueled engine that the owner commits to replacing with a Tier 4 engine,
- d. Listing of portable diesel-fueled engines, if applicable, used exclusively in emergency applications,
- e. Listing of portable diesel-fueled engines, if applicable, satisfying the low-use engine requirements,
- f. Listing of portable alternative-fueled engines, if applicable, added to the fleet prior to January 1, 2009, pursuant to section 93116.3(d)(2)(B)2, and
- g. Listing of portable diesel-fueled engine(s) equipped with Selective Catalytic Reduction (SCR) system(s),

\* Fleet is defined in Title 17 CCR Section 93116.2(p) as one or more portable unit(s).

8. The fleet\* under control of this o/o is subject to and shall comply with the weighted Diesel Particulate Matter (DPM) emission fleet averages\*\* expressed as grams per brake horsepower-hour (g/bhp-hr) of Title 17 CCR Section 93116.3(c) & (d) by the following dates:

Fleet Standard Engines <175 hp Engines >175 to 749 hp Engines >750 hp Compliance Date (g/bhp-hr) (g/bhp-hr) (g/bhp-hr)

1/1/13 0.3 0.15 0.25  
1/1/17 0.18 0.08 0.08  
1/1/20 0.04 0.02 0.02

9. The o/o of this unit must submit a Statement of Compliance signed by the Responsible Official that the fleet standards are being achieved and a summary that identifies each portable engine in the fleet and the associated emission rate (g/bhp-hr) and other required information, see Title 17 CCR 93116.4(e)(2), (3), (4), (5), (6) and (7).

Compliance and Submittal Dates Pursuant to 17 CCR 93116.4(e)2:

Weighted DPM Emission Fleet Average Date Submit by  
January 1, 2013 March 1, 2013

January 1, 2017 March 1, 2017  
January 1, 2020 March 1, 2020

10. The o/o of fleets that are exempted from the requirements of section 93116.4 pursuant to section 93116.4 (a), the Responsible Official shall certify that all portable diesel-fueled engines in the fleet satisfy the requirements of section 93116.4(a). See Title 17 CCR 93116.4(f) for details.

11. Effective January 1, 2012, the o/o or Responsible Official of a fleet electing to use electrification in determining the fleet average shall:

(a) notify the Executive Officer identifying the dates, location, duration of the project, and a description of the project that will rely on electrification instead of using portable diesel-fueled engines. The notification shall be provided prior to the start of the project; and

(b) identify each affected portable diesel-fueled engine, including: make, model, serial number, year of manufacture for each engine, emission factor (g/bhp-hr) and district permit or State/district registration number; and

(c) shall clearly identify the electrification activity, including indicating the amount of electricity used and the time period for the project; and

(d) shall retain copies of contracts or other documentation, with the project proponent and/or applicable utility, supporting the use of grid power.

12. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Portable Compression Ignition Engines (Title 17 CCR 93116). In the event of conflict between these conditions and the ATCM, the more stringent requirements shall govern.