



# 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

E011115

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 2027**

### **OWNER OF OPERATOR (Co.#2349)**

MP Mine Operations LLC  
67750 Bailey Road  
Mountain Pass, CA 92366

### **EQUIPMENT LOCATION (Fac.#364)**

Mountain Pass Mine  
67750 Bailey Road  
Mountain Pass, CA 92366

#### **Description:**

DIESEL IC ENGINE, EMERGENCY GENERATOR consisting of: Emergency engine #1 at CHP. Year of manufacture 2010, US EPA Tier 2, Engine Family BCPXL106.NZS.

One Caterpillar, Diesel fired internal combustion engine Model No. C175-16 and Serial No. WYB00483, Direct Injected, producing 3670 bhp with 16 cylinders at 1800 rpm while consuming a maximum of 213.0 gal/hr. This equipment powers a TBD Generator Model No. TBD and Serial No. TBD, rated at 3 MW.

#### **EMISSIONS RATES**

Emission Type	Est. Max Load	Unit
CO	.41	gm/bhp-hr
NOx	4.40	gm/bhp-hr
PM10	0.12	gm/bhp-hr
SOx	0.01	gm/bhp-hr
VOC	0.23	gm/bhp-hr

#### **CONDITIONS:**

Fee Schedule: 7 (g)

Rating: 3670 device

SIC: 1099

SCC: 20100102

Location/UTM(Km):  
634E/3926N

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.

MP Mine Operations LLC  
1700 S. Pavilion Center Drive, 8th Floor  
Las Vegas, NV 89135

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

1. This certified Tier 2 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. 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.

3. 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)]

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 equipment shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.

[17 CCR 93115.6(c)(1)(C)]

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. This engine shall be limited to use for emergency power, defined as in response to a fire or flood, or when commercially available power and/or power generated by combustion turbines under permits B011111 and B011184 has been interrupted. In addition, this engine shall be operated no more than 8 hours per day and 50 hours per year for testing and maintenance. Emergency use includes planned and unplanned outages of alternative energy supply from combustion turbines under permits B011111 and B011184 when the facility has no other source of power available. Such emergency use shall not exceed 200 hours total per year. The owner/operator must notify the District prior to the use of this emergency generator during a "planned outage" emergency. Notifications must be sent to reporting@mdaqmd.ca.gov and include the permit number(s) and the dates of the outage.

[District Rule 301 (E)(7)(g)]  
[17 CCR 93115.6(a)(3)(A)(1)(c)]

9. This facility shall not perform concurrent testing of more than one internal combustion engine.  
[District Rule 1320]

10. PM10 Emissions from the CHP Plant including all equipment under District permit numbers: B011111, B011112, B011177, B011184, B011185, B011186, C011113, C011114, C011178, C011179, C011180, C011181, C011182, C011183, E011115, E011175, E011176 shall not exceed 36.1 tons/year. Cumulative PM10 emissions from the CHP Plant shall be calculated on a monthly basis in lb/month and tons per rolling twelve months. PM10 emissions calculations for the CHP plant shall be made available to the District upon request and shall be kept on site for a minimum of five (5) years.  
[District Rule 1303 Offsets]

11. Actual emissions from this facility shall be less than the following:

- a. 42 tons per year of NO<sub>x</sub> [Rule 1303(B)]
  - b. 46 tons per year of PM<sub>10</sub> [Rule 1303(B)]
  - c. 25 tons per year of VOC
  - d. 25 tons per year of SO<sub>x</sub>
  - e. 100 tons per year of CO, calculated on a rolling twelve-month basis
  - f. 10 tons per year for any single HAP and 25 tons per year for any combination of HAPs calculated on a rolling twelve-month basis.
- HAPs are defined in 40 CFR 61.01 and are the chemical compounds listed in section 112(b) of the Clean Air Act (Act). Compliance with the annual emission limits shall be demonstrated via 12 month rolling sum for CO and HAP via annual emission inventory reports for all criteria pollutants and HAP.

[District Rule 1303]

12. 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]