



# 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

B014170

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:**

CONCENTRATE CALCINING SYSTEM consisting of:

#### **EQUIPMENT**

Capacity	Equipment Description
4	531-D15-SA02 Calciner Weigh Feeder
2	531-D15-RV04 Calciner Feed Airlock
20	531-D15-CV09 Calciner Feed Screw
220	531-D15-CAL01 Calciner (Electric)
15	531-D15-VC01 Product Cooler (Vibro-Cool)
384	531-D15-CH01 Product Cooler Chiller System
25	531-D15-CHWP Product Cooler Chilled Water Pump
0.17	531-D15-SAMP03 Cooler Product Discharge Sampler
15	531-D15-CV10 Cooler Discharge Incline Screw
1.5	531-D15-RV05 Cooler Product Airlock
0	531-D15-HP01 Product Cooler Surge Hopper
0	531-D15-PV01 Calcined Concentrate Hopper Pneumatic Conveyor Compressed Air Surge Tank 600 gallon
0	531-D15-TK01 Chilled Water Storage/Expansion Tank 150 gallon
0.08	531-D15-FN02 Rotary Calciner Gear Guard Fan

Fee Schedule: 1 (c)

Rating: 687 bhp

SIC: 1099

SCC: 30510199

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

Capacity	Equipment Description
0	531-D15-XFMR01 Calciner Transformer
0	531-D15-XFMR02 Calciner Transformer
0	531-D15-D02 Calciner Exhaust Temperature Control Damper

## 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 noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [District Rules 204 and 1302]

2. There shall be no visible emissions from this material handling equipment. To demonstrate compliance with this opacity limitation the owner/operator shall conduct a monthly 6-minute visible emissions evaluation on each emission point and fugitive emission point associated with this equipment in accordance with USEPA Method 22. The evaluation must be conducted while the affected source is in operation.

[District Rules 204, 401, 402, and 403]

3. Throughput from this equipment must not exceed 190,773 tons/year.

[District Rule 1303 - Offsets]

4. All conveying equipment shall be fully enclosed with the following components venting to air pollution control devices under valid district permits as specified:

- a. calciner vents to C014171
- b. product cooler convey hopper vents to C014178
- c. calciner concentrate bin vents to C014184

[District Rule 1303 - BACT]

5. In the event that opacity is observed during the USEPA Method 22, the owner/operator must shut down the affected equipment and take corrective action to preclude any further emissions. Upon restarting the affected equipment, the owner/operator must conduct a USEPA Method 22 to demonstrate that the corrective action taken was sufficient. Equipment breakdowns resulting in violation and/or shutdown shall be reported to the District in accordance with District Rule 430.

[District Rules 401, 403 and 430]

6. The owner/operator, o/o, shall conduct the following minimum program of inspection/maintenance:

- a. Monthly visible emissions determinations; results logged;
  - b. Weekly readings and recording of the pressure differential across the filter;
  - c. Quarterly inspections of the bin vent filter; inspections, replacements and repairs logged.
- Items a, b, and c shall be logged. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

7. Actual missions 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]

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]