



# 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

B014308

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:

PRASEODYMIUM NEODYMIUM CALCINING CONVEYANCE SYSTEM consisting of:

#### EQUIPMENT

Capacity	Equipment Description
0	562-F66-SG01 Dried PrNd Bin Maintenance Gate
5	562-F66-CV09 Dried PrNd Bin Screw
0	562-F66-HP06 Calciner Feed Surge Hopper
0	562-F66-DC20 Calciner Feed Hopper Bin Vent
0	562-F66-PV02 Calciner Feed Transport Hopper
0	562-F66-BN02 Calciner Feed Bin
0	562-F66-DC12 Calciner Feed Surge Bin Vent
0	562-F66-AREC03 Calciner Feed Pneumatic Conveyor Compressed Air Surge Tank 400 gallon
0	562-F66-SG02 Calciner Feed Bin Maintenance Gate
15	562-F66-CV05 Loss in Weight Feed Conveyor
3	562-F66-SA01 Rotary Calciner Loss in Weight Feeder
0	562-F66-CLR02 Calcined Oxide Cooler
2	562-F66-RV06 Calcined Oxide Cooler Airlock
0.2	562-F66-SAMP01 Cooler Discharge Sample Port

Fee Schedule: 1 (a)

Rating: 27 bhp

SIC: 1099

SCC: 30503812

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	562-F66-DV05 Rotary Calciner Upset Diverter
0	562-F66-HP07 Calcined Oxide Surge Hopper
0	562-F66-DC21 Calcined Oxide Hopper Bin Vent
0	562-F66-PV03 Calcined Oxide Transport Hopper
0	562-F66-AREC04 Calcined Oxide Pneumatic Conveyor Compressed Air Surge Tank 400 gallon
2	562-F66-CV28 Rotary Calciner Cyclone and Baghouse Collection Screw

## 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 processed may not exceed 28,028 tons/year.

[District Rule 1303 - Offsets]

4. All conveying equipment shall be fully enclosed with following equipment venting to control equipment as specified:

- a. Calciner vents to C014309
- b. Feed Surge Hopper 562-F66-HP06 vents to passive Bin Vent 562-F66-DC20
- c. Feed Transport Hopper 562-F66-PV02 vents to passive Bin Vent
- d. Feed Bin 562-F66-BN02 vents to passive Bin Vent 562-F66-DC12
- e. Calcined Oxide Surge Hopper 562-F66-HP07 vents to passive Bin Vent 562-F66-DC21
- f. Calcined Oxide Transport Hopper 562-F66-PV03 vents to passive Bin Vent

The passive bin vents shall be equipped with filters which meet 99.9% control efficiency of particulates at the operating conditions specified in the equipment description.

[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 filters;
  - 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 emissions from this facility shall be less than the following:

- a. 42 tons per year of NOx [Rule 1303(B)]
- b. 46 tons per year of PM10 [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]