



# 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

B011593

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:

WET LANTHANUM - PROCESS TRAIN 2 consisting of:

#### EQUIPMENT

Capacity	Equipment Description
0	F60-TK100 SxD Raffinate Feed Tank 30000 gallon
0	F60-TK110 La Carbonate Precip Tank #1 12900 gallon
0	F60-TK120 La Carbonate Precip Tank #2 12900 gallon
0	F60-TK130 La Carbonate Precip Tank #3 12900 gallon
0	F60-HX100 SxD Raffinate Feed Heat Exchanger
15	F60-P100 SxD Raffinate Feed Tank Pump No.1
15	F60-P10 SxD Raffinate Feed Tank Pump No. 2
25	F60-AG110 La Carbonate Precip Tank No. 1 Agitator
25	F60-AG120 La Carbonate Precip Tank No. 2 Agitator
25	F60-AG130 La Carbonate Precip Tank No. 3 Agitator
30	F60-P130 La Carbonate Slurry Pump No. 1
30	F60-P131 La Carbonate Slurry Pump No. 2
0	F60-TK142 La Carbonate Mother Liquor Hold Tank 12900 gallon
0	F60-TK155 La Carbonate Recycle Wash Tank 12900 gallon

Fee Schedule: 1 (c)

Rating: 515 bhp

SIC: 1099

SCC: N/A

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
60	F60-P142 La Carbonate ML Paste Tails Pump No. 1
60	F60-P143 La Carbonate ML Paste Tails Pump No. 2
0	F60-P155 La Carbonate Recycle Wash Water Pump No. 1
0	F60-P15 La Carbonate Recycle Wash Water Pump No. 2
0	F60- Hydrocyclone
0	F60-P150 La Carbonate Centrifuge Feed Pump No. 1
0	F60-P160 La Carbonate Centrifuge Feed Pump No. 2
0	F60-P140 La Carbonate Decant Pump
0	F60-P141 La Carbonate Filtered Slurry Pump
0	F60-SFxxx Sparkler Filter No. 1
0	F60-SFxxx Sparkler Filter No. 2
0	F60-TK131 La Centrifuge Feed Tank 12900 gallon
0	F60- La Centrifuge Feed Tank Agitator
0	F60-AREC151 La Carbonate Centrifuge Air Accumulator
0	F60- La Carbonate Centrifuge No. 1 Standpipe Pump
0	F60-TK208 La Carbonate Centrifuge No. 1 Standpipe 600 gallon
0	F60- La Carbonate Centrifuge No. 2 Standpipe Pump
0	F60-TK209 La Carbonate Centrifuge No. 2 Standpipe 600 gallon
115	F60-CENH150 La Carbonate Centrifuge No. 1
115	F60-CENH160 La Carbonate Centrifuge No. 2

## CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. This equipment shall be operated and maintained in strict accord with the recommendations of the manufacturer or supplier and/or sound engineering principles.

3. No tank shall discharge hydrogen chloride at more than a maximum of 800 ppm v/v, per District rule 406. To demonstrate compliance with this limit, the owner/operator, o/o, shall demonstrate that the HCl concentration in the liquid shall remain at or below an HCl concentration of 2% in the following tanks: SXD Raffinate Feed Tank (F60-TK100) and Lanthanum Carbonate Precipitation Tanks (F60-TK110, F60-TK120, F60-TK130).

The concentration shall be estimated weekly according to a district approved protocol, with results logged. The log shall be maintained current, kept on-site for a minimum of 5 years, and provided to District personnel on request.

4. Mountain Pass Mine Facility Emissions Limits: The total criteria pollutant emissions for the Mountain Pass Mine shall be less than: 42 tons per year of NO<sub>x</sub>, 25 tons per year of VOC, 46 tons per year of PM<sub>10</sub>, 25 tons per year of SO<sub>x</sub>, and 100 tons per year of CO. The total emissions of Hazardous Air Pollutants (HAPs) for the Mountain Pass Mine shall be less than 10 tons per year for any single HAP and 25 tons per year for any combination of HAPs calculated on an annual 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).

(b) Monitoring, Periodic Monitoring & Recordkeeping Conditions. This facility shall demonstrate compliance with the specific facility wide emission limits through the submission of an approved CEIP and CEIR. The CEIP and CEIR shall be based on actual emissions as determined by source test of the equipment or on district approved methods and emissions factors only. Generic or default emission factors shall not be used without approval from the District. The Comprehensive Emission Inventory Plan (CEIP) shall be due no later than March 31 of the year following the year of the actual emissions to be reported. Emissions will be calculated separately for each emissions source on a monthly basis and used to calculate the 12 month rolling annual total. All emissions sources including all permit units will be summed on a monthly basis and used to calculate the 12 month rolling annual total. The permit unit and facility wide monthly emissions, 12 month rolling annual emissions total, and approved CEIR shall be kept on site and provided to District personnel upon request.

(c) A facility wide Comprehensive Emission Inventory (CEIR) must be submitted to the District, in a format approved by the District, for all emitted criteria air pollutant on a yearly basis, and every three years for toxic air pollutants, which is to be received by the District no

later than April 30 of the following year.

[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[California Clean Air Act, Health and Safety Code \S39607 and \S44300 et seq., and the Federal Clean Air Act, \S110(a)(2)(F)(ii), codified in 40 CFR 60]