



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

B011514

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:

CERIUM REMOVAL TRAIN #2 consisting of:

EQUIPMENT

Capacity	Equipment Description
5	F10-P171 Caustic Pump #1
5	F10-P172 Caustic Pump #2
5	F10-P271 Caustic Pump #3
5	F10-P272 Caustic Pump #4
10	F10-AG141 Cerium Feed Tank Agitator
10	F10-AG241 Cerium Feed Tank Agitator
10	F10-P141 Cerium Thickener Feed Pump #1
10	F10-P241 Cerium Thickener Feed Pump #2
10	F10-P143 Cerium-Free Liquor Pump #1
10	F10-P144 Cerium-Free Liquor Pump #2
0	F10-F141 Cerium Free Polishing Filter #1
0	F10-F142 Cerium Free Polishing Filter #2

Fee Schedule: 1 (b)

Rating: 190 bhp

SIC: 1099

SCC: 39999989

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**
Brad Poiriez
 Executive Director

Capacity	Equipment Description
10	F10-P131 Bleach Pump #1
10	F10-P231 Bleach Pump #2
10	F10-P132 Bleach Pump #3
10	F10-P232 Bleach Pump #4
10	F10-P129 Safety Vent Tank Pump
30	F10-P101 Cerium Feed Pump #1
30	F10-P102 Cerium Feed Pump #2
0	F10-HX147 "Pick" Heater
0	F10-HX101 Cerium Feed Cooler - steam provided by cogen plant
0	F10-TK141 Cerium Thickener Feed Tank
0	F10-TK241 Cerium Thickener Feed Tank
0	F10-TK143 Cerium-Free Liquor Tank #1
0	F10-TK131 Bleach Tank
0	F10-TK129 Safety Vent Tank
0	F10-TK101 Cerium Feed Storage Tank
0	F10-TH141 Cerium Thickener #1
0	F10-TH241 Cerium Thickener #2
0	F10-TK147 Filter Thickener Wash Water Tank

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 Rule 204]

2. The following equipment shall not be operated unless it is vented to a properly functioning scrubber under valid District permit C011515:

- a. Cerium Thickener Feed Tanks
 - b. Cerium-Free Liquor Tank
- [District Rule 1320]

3. This equipment shall not discharge hydrogen chloride at more than a maximum of 800 ppm v/v, per District rule 406. To show compliance with this limit for equipment (Cerium Feed Storage Tank (F10-TK101)), which does not vent to C011515, the owner/operator, o/o, shall demonstrate that the HCl concentration in the liquid contained in the Cerium Feed Storage Tank (F10- TK101) shall remain at or below 12% HCl, based on a sample taken immediately upstream of the Cerium Removal process. The normality concentration and resulting HCl concentration shall be recorded weekly to show compliance with this limit, 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. [District Rule 1320]

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

- a. 42 tons per year of NOx [District Rule 1303(B)]
- b. 46 tons per year of PM10 [District Rule 1303(B)]
- c. 25 tons per year of VOC
- d. 25 tons per year of SOx
- 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 - Offsets]

5. 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), Health & Safety Code 39607 & 44341-44342, 17 CCR 93400 et seq., and 40 CFR 51, Subpart A]