



**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**

B002373

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:**

SOLVENT EXTRACTION CIRCUIT - SX 3/6 consisting of:

**EQUIPMENT**

Capacity	Equipment Description
0	This equipment is located at the Chemical Plant
0	63-3302 Reagent Solution Tank, 250 gal
0.75	63-2702 Reagent Solution Pump
1.5	63-2705 Loaded Organic Pump
0	63-3305 Loaded Solvent Tank, 9306 gal
18	63-3676 thru 63-3681 : SX-3 Solvent Extraction Cells, with 6 mixers, each at 3 hp
0	63-3301 SX-3 Feed Tank, 22,000 gal
1	63-2701 SX-3 Feed Pump
0	63-3317 Reagent Holding Tank, 1630 gal
1	63-2727 Reagent Holding Tank Pump
1	63-2707 Raffinate Pump Tank Pump
0	63-3307 Raffinate Pump Tank, 265 gal

Fee Schedule: 1 (c)

Rating: 309.75 bhp

SIC: 1099

SCC: 99999999

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
40	63-3601 to 63-3675 SX-6 Solvent Extraction Cells, with mixers
0	63-3308 Trap Tank, 265 gal
1	63-2708 Organic Pump
1	63-2710 Raffinate Pump Tank Pump
1	63-3310 Raffinate Pump Tank, 265 gal
0	63-3312A Pregnant, with Organic Removal, 116 gal
1	63-2712A Pregnant Solution Sump Pump
0	63-3311 Trap Tank, 265 gal
1.5	63-2711 Organic Pump
0	63-3312B Pregnant, with Organic Removal, 116 gal
1	63-2712B Pregnant Solution Sump Pump
1	63-2709 Barren Organic Pump
0	63-3309 Barren Organic Tank, 4800 gal
0	63-3304 Raffinate Surge Tank, 22,000 gal
0	63-1301 Feed Hopper
1	63-2502 Screw Conveyor
0	63-2801 Precipitation Tank, 14,000 gal
15	63-1101 Agitator
0	63-3313 Storage Feed Tank, 2914
2	63-2713 Nitrate Pregnant Solution Pump
0	63-2714 Precipitation Transfer Pump
3	63-3201 Belt Filter No. 1
0	63-3320 Agitated Pump Tank
5	63-2731 Agitated Pump Tank Pump
7.5	63-1115 Agitated Pump Tank Agitator
0	63-1305 Wet Bag Dump Hopper
0	63-3314 Repulp Tank, 200 gal
7.5	63-1114 Agitator
0	63-3401 Surge Thickener, 35,000 gal
3	63-3401-01 Surge Thickener Rake Drive
0.5	63-3401-02 Surge Thickener Rake Lift
3	63-3202 Belt Filter No. 2
0	63-3300 Precipitation Tank, 15,000
15	63-1102 Agitator
15	63-1104 Agitator
0	63-315A&B and 63-316 Filtrate Receivers
6	63-2720 thru 63-2723 Filtrate Pumps (4, of which 2 are standby)
125	63-1601 Vacuum Pump
0	63-2725 Sump Pump
7.5	63-1115 Agitated Pump Tank Agitator
5	63-2731 Agitated Pump Tank Pump
5	63-1901 De-Lumper
5	63-2504 Bucket Elevator
1	63-2502 Screw Conveyor
5	63-2703 SX-3 Raffinate Pump
1	63-2728 SX-6 OC Tank Pump
1	63-11103 Reagent Solution Tank Agitator
0	Note: The total volume of all the above tanks/cells is: 34,000 gallons

## CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accord with the recommendations of the manufacturer/supplier.
  
2. This permit has been issued to allow the owner/operator, o/o, to install new equipment and replace the previous SX-6 circuit, and create the new SX-3/6 circuit. The District shall be notified in writing when:
  - a. Construction commences,
  - b. Construction has been completed, and
  - c. The equipment becomes operational.
  
3. Compliance emissions tests shall be conducted within 180 days after 2(c), above in strict accord with a test protocol approved by this District. The test protocol shall follow the requirements described in the District's "Compliance Test Procedural Manual". A formal report on the results of these tests shall be forwarded to the District within 45 days of the last day of on-site measurements/sample collections.
  
4. Mountain Pass Mine Voluntary Emissions Limit/Synthetic Minor Hazardous Air Pollutant Limits:
  - (a). General Limits for Entire Facility. The total emissions for the Mountain Pass Mine shall be less than 25 tons per year of VOC. The total emissions of Hazardous Air Pollutants (HAPs) for the Mountain Pass Mine shall not exceed 7 tons per year for any single HAP and 18 tons per year for any combination of HAPs calculated on an annual basis. HAPs are defined in 40 CFR 61.01 Lists of pollutants and are the chemical compounds listed in section 112(b) of the Clean Air Act (Act).
  - (b). Monitoring, Periodic Monitoring & Recordkeeping Conditions. To prove compliance with condition (a) above, permittee shall maintain usage records of all VOC- and HAP-containing solvent materials. Such records shall be compiled into an annual usage report and total HAP emissions from solvent operations shall be added to the annual HAP emissions from fuel burning and other HAP emitting equipment. Annual HAP/VOC emissions from fuel burning and other emitting equipment for purposes of this condition shall be determined by use of HAP/VOC emissions factors (as set forth by District approved emission factors), or by annual actual emissions as determined by source test of the equipment, or by methods and emission factors established in an approved comprehensive Emission Inventory Plan (CEIP).  
[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 \S\S39607 and \S\S44300 et seq., and the Federal Clean Air Act, \S110(a)(2)(F)(ii), codified in 40 CFR 60 Subpart Q]