



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

B012087

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:

HARD LEACH PROCESS consisting of:

EQUIPMENT

Capacity	Equipment Description
1.2	D20-TK511 Hard Leach Reactor #1A
1.2	D20-TK513 Hard Leach Reactor #1B
0	D20-P515 Hard Leach Reactor #1A Slurry Transfer Pump #1
0	D20-P516 Hard Leach Reactor #1A Slurry Transfer Pump #2
0	D20-P517 Hard Leach Reactor #1B Slurry Transfer Pump #1
0	D20-P518 Hard Leach Reactor #1B Slurry Transfer Pump #2
1.2	D20-TK521 Hard Leach Reactor #2
1.2	D20-TK523 Hard Leach Reactor #3
1.2	D20-TK525 Hard Leach Reactor #4
1.2	D20-TK527 Hard Leach Reactor #5
1.2	D20-TK529 Hard Leach Reactor #6
1.2	D20-TK531 Hard Leach Reactor #7
1.2	D20-TK533 Hard Leach Pump Tank
0	D20-P535 Hard Leach Slurry Transfer Pump #1

Fee Schedule: 5 (c)

Rating: 108000 gallons

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**
Eldon Heaston
Air Pollution Control Officer

Capacity	Equipment Description
0	D20-P536 Hard Leach Slurry Transfer Pump #2
0	D20-P581 Hard Leach Defoamer Metering Pump #1
0	D20-P582 Hard Leach Defoamer Metering Pump #2
0	D20-HX800 Heat Exchanger - RO Water Cooling
0	D20-HX801A Heat Exchanger - HCl Cooling
0	D20-HX801B Heat Exchanger - HCl Cooling
0	D20-HX802 Heat Exchanger - Reactor #2 Slurry Cooling
0	D20-HX803 Heat Exchanger - Reactor #3 Slurry Cooling
0	D20-HX804 Heat Exchanger - Reactor #4 & #5 Slurry Cooling
0	D20-CV01 Leach Reactor Feeding Reversible Screw Conveyor
20	D20-P802 Leach Reactor #2 Slurry Transfer Pump
20	D20-P803 Leach Reactor #2 Slurry Transfer Pump (spare)
20	D20-P804 Leach Reactor #3 Slurry Transfer Pump
20	D20-P805 Leach Reactor #3 Slurry Transfer Pump (spare)
20	D20-P806 Leach Reactor #4 & #5 Slurry Transfer Pump
20	D20-P807 Leach Reactor #4 & #5 Slurry Transfer Pump (spare)
20	D20-P808 Transfer Pump
20	D20-P809 Transfer Pump
0	Glycol Chiller

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 1302]

2. The following equipment shall not be operated unless it is vented to the properly functioning Hard Leach Venturi Scrubber under valid District permit C012086 and the properly functioning Leach Caustic Scrubber under valid District permit C014254:
 - a. Hard Leach Reactor #1A
 - b. Hard Leach Reactor #1B
 [District Rule 1320]

3. The following equipment shall not be operated unless it is vented to the properly functioning Leach Caustic Scrubber under valid District permit C014254:
 - a. Hard Leach Reactor #2
 - b. Hard Leach Reactor #3
 - c. Hard Leach Reactor #4
 - d. Hard Leach Reactor #5
 - e. Hard Leach Reactor #6
 - f. Hard Leach Reactor #7
 - g. Hard Leach Pump Tank
 [District Rule 1320]

4. Actual missions 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 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]

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); H&S Code 39607 & 44341-44342; and 40 CFR 51, Subpart A]