



**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**

B011342

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:**

FLOATATION SYSTEM consisting of:

**EQUIPMENT**

Capacity	Equipment Description
10	D10-P01 Rougher Conditioning Area Sump Pump
0	D10-TK01 Rougher Conditioner Tank #1 370 gallon capacity
0	D10-TK02 Rougher Conditioner Tank #2 370 gallon capacity
0	D10-TK03 Rougher Conditioner Tank #3 370 gallon capacity
10	D10-P04 Flotation Area Sump Pump #1
0	D10-TK04 Rougher Conditioner Tank #4 370 gallon capacity
10	D10-P06 Flotation Area Sump Pump #3
25	D10-AG01 Rougher Conditioner Tank Agitator #1
15	D10-FLOT11 Rougher Flotation Cell #1
25	D10-AG02 Rougher Conditioner Tank Agitator #2
0	D10-STSP05/07 Steam Spargers Conditioner 2
0	D10-STSP08/09 Steam Spargers Conditioner 3

Fee Schedule: 1 (d)

Rating: 1346.5 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
15	D10-FLOT12 Rougher Flotation Cell #2
25	D10-AG03 Rougher Conditioner Tank Agitator #3
15	D10-FLOT13 Rougher Flotation Cell #3
15	D10-FLOT14 Rougher Flotation Cell #4
25	D10-AG04 Rougher Conditioner Tank Agitator #4
15	D10-FLOT15 Rougher Flotation Cell #5
15	D10-FLOT16 Rougher Flotation Cell #6
0	D10-STSP01/04 Steam Spargers Conditioner 1
20	D10-P10 Rougher Froth Pump
0	D10-STSP10 Steam Spargers Conditioner 4
0	D10-SMP02 Rougher Tails Sump 269 gallon capacity
7.5	D10-P30 Rougher Tails Pump
0	D10-P31 Rougher Tails Pump back up only
15	D10-FLOT21 Rougher Scavenger Flotation Cel #1
15	D10-FLOT22 Rougher Scavenger Flotation Cel #2
15	D10-FLOT23 Rougher Scavenger Flotation Cel #3
10	D10-P12 Rougher Scavenger Froth Pump
0	D10-SMP03 Rougher Scavener Tails Sump 337 gallon capacity
100	D10-P32 Rougher Scavenger Tails Pump
0	D10-P33 Rougher Scavenger Tails Pump back up only
0	D10-P11 Flotation Area Sump Pump #5
0	D10-TK05 First Cleaner Conditioner Tank 266 gallon capacity
25	D10-AG05 First Cleaner Conditioner Tank Agitator
15	D10-FLOT31 First Cleaner Flotation Cell #1 1320 gallon capacity
15	D10-FLOT32 First Cleaner Flotation Cell #2 1320 gallon capacity
15	D10-FLOT33 First Cleaner Flotation Cell #3 1320 gallon capacity
15	D10-FLOT34 First Cleaner Flotation Cell #4 1320 gallon capacity
15	D10-FLOT35 First Cleaner Flotation Cell #5 1320 gallon capacity
15	D10-FLOT36 First Cleaner Flotation Cell #6 1320 gallon capacity
10	D10-P05 Flotation Area Sump Pump #2
20	D10-P14 First Cleaner Froth Pump
0	D10-SMP05 First Cleaner Tails Sump 269 gallon capacity
15	D10-P34 First Cleaner Tails Pump
0	D10-P35 First Cleaner Tails Pump back up only
0	D10-TK06 First Cleaner Scavenger Conditioner Tank
25	D10-AG06 First Cleaner Scavenger Tank Agitator
15	D10-FLOT41 First Cleaner Scavenger Flotation Cell #1
15	D10-FLOT42 First Cleaner Scavenger Flotation Cell #2
15	D10-FLOT43 First Cleaner Scavenger Flotation Cell #3
15	D10-FLOT44 First Cleaner Scavenger Flotation Cell #4
15	D10-P16 First Cleaner Scavenger Froth Pump
15	D10-FLOT51 Second Cleaner Flotation Cell No. 1
15	D10-FLOT52 Second Cleaner Flotation Cell No.2
15	D10-FLOT53 Second Cleaner Flotation Cell No. 3
15	D10-FLOT54 Second Cleaner Flotation Cell No. 4
7.5	D10-P18 Second Cleaner Froth Pump
0	D10-SMP08 Second Cleaner Tails Sump 131 gallon capacity
5	D10-P38 Second Cleaner Tails Pump
5	D10-P39 Second Cleaner Tails Pump back up only
15	D10-FLOT 61 Third Cleaner Flotation Cell #1

Capacity	Equipment Description
15	D10-FLOT 62 Third Cleaner Flotation Cell #2
15	D10-FLOT 63 Third Cleaner Flotation Cell #3
15	D10-P20 Third Cleaner Froth Pump
0	D10-SMP09 Third Cleaner Tails Sump 90 gallon capacity
15	D10-FLOT71 4th Cleaner Flotation Cell No. 1 792 gallon capacity
5	D10-P40 Third Cleaner Tails Pump
15	D10-FLOT72 4th Cleaner Flotation Cell No. 2 792 gallon capacity
5	D10-P41 Third Cleaner Tails Pump back up only
25	D10-P22 4th Cleaner Froth Pump
15	D10-P07 Flotation Area Sump Pump #4
10	D10-P50 Concentrate Thickener Area Sump Pump
0	D10-TK07 Concentrate Thickener Mix Box 310 gallon capacity
0	D10-TK08 Concentrate Thickener 1570 gallon capacity
3.5	D10-TH01 Concentrate Thickener Mechanism
0	D10-TK09 Concentrate Thickener Overflow Tank 269 gallon capacity
10	D10-P54 Concentrate Thickener Overflow Pump
0	D10-P52 Concentrate Thickener Underflow Pump
0	D10-P53 Concentrate Thickener Underflow Pump Standby
0	D10-TK24 Filter Feed Surge Tank 449 gallon capacity
30	D10-AG18 Filter feed Surge Tank Activator
40	D10-P85 Filter Press Feed Pump
0	D10-P93 Filter Press Feed Pump Standby
31.5	D10-FI01 Concentrate Filter Press
0	D10-TK27 Filter Wash Tank 209 gallon capacity
40	D10-P97 Filter Wash Pump
0	D10-P98 Filter Wash Pump Standby
0	D10-AREC32 Filter Air Tank
0	D10-AS01 Air/Water Separator Tank 135 gallon capacity
0	D10-TK26 Filtrate Surge Tank 322 gallon capacity
1.5	D10-P96 Filtrate Pump
10	D10-P51 Concentrate Filter Area Sump Pump
10	D10-P55 South Reagent Area Sump Pump
0	D10-AREC21 Plant Air Receiver #1 1060 gallon capacity
0	D10-AREC22 Plant Air Receiver #2 1060 gallon capacity
75	D10-BL1 Flotation Blower Air
0	D10-BL2 Flotation Blower Air back up only
0	D10-TK23 Reclaim Water Tank 1122 gallon capacity
20	D10-P90 Recirculating Water Pump
60	D10-P58 Reclaim Water Pump No. 1
60	D10-P59 Reclaim Water Pump No. 2
60	D10-P60 Reclaim Water Pump No. 3
0	D10-DIS01/02 Reclaim Water Direct Injection Steam Heaters
0	D10-DIS03/04 RO Water Direct Injection Steam Heaters
5	D10-P99 Seal Water Booster Pump
0	D10-P91 Seal Water Booster Pump back up only

**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 its manufacturer or supplier and/or sound engineering principles.
3. Material handling processes (i.e. drops and conveyors) shall not discharge PM10 in excess of 0.01 grains/dscf. Materials processed by this equipment shall contain sufficient and/or added moisture to ensure compliance with this limit.
4. Material shall maintain a moisture content such that there shall be no visible emissions.
5. (a) 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 NOx, 25 tons per year of VOC, 46 tons per year of PM10, 25 tons per year of SOx, 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 facilitywide 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 facilitywide 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 \S\S39607 and \S\S44300 et seq., and the Federal Clean Air Act, \S110(a)(2)(F)(ii), codified in 40 CFR 60]