



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

B014255

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:

LEACH THICKENING AND FILTRATION SYSTEM consisting of: Control: scrubber under C014254

EQUIPMENT

Capacity	Equipment Description
0	531-D20-TH702 Leach Thickener Tank #2
2	531-D20-ME702 Leach Thickener Mechanism (2 x 1 hp ea)
5	531-D20-P705 Leach Thickener #2 Underflow Pump (5 hp)
5	531-D20-P706 Leach Thickener #2 Underflow Pump (Spare 5 hp)
0	531-D20-TK703 Leach Thickener Tank #2 Mix Box
0	531-D20-TH703 Leach Thickener Tank #3
2	531-D20-ME703 Leach Thickener Mechanism (2 x 1 hp ea)
5	531-D20-P707 Leach Thickener #3 Underflow Pump (Standby 5 hp)
5	531-D20-P708 Leach Thickener #3 Underflow Pump (Standby, Spare 5 hp)
0	531-D20-TK704 Leach Thickener Tank #3 Mix Box
0	531-D20-TK701 Leach Thickener Tank #1 Mix Box
2	531-D20-ME701 Leach Thickener Mechanism (2 x 1 hp ea)

Fee Schedule: 1 (d)

Rating: 2062.5 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
0	531-D20-TH701 Leach Thickener Tank #1
5	531-D20-P703 Leach Thickener #1 Underflow Pump (5 hp)
5	531-D20-P704 Leach Thickener #1 Underflow Pump (Spare 5 hp)
0	531-D20-TK702 Leach Thickener Overflow Tank
10	531-D20-P701 Leach Overflow Pump (10 hp)
10	531-D20-P702 Leach Overflow Pump (Spare 10 hp)
0.75	531-D20-SM701 Sampler (0.75 hp)
7.5	531-D20-P709 Leach Thickener Area Sump Pump (7.5 hp)
50	531-D20-AG701 Filter Feed Tank Agitator (Standby 50 hp)
0	531-D20-TK705 Filter Feed Surge Tank (Standby)
200	531-D20-P710 Filter Feed Pump (Standby 200 hp)
200	531-D20-P711 Filter Feed Pump (Standby, Spare 200 hp)
0	531-D20-TK709 Leach Cloth Wash Tank (Standby)
45	531-D20-P717 Filter Wash Water Pump (Standby 1 ea 25 hp and 20 hp)
45	531-D20-P718 Filter Wash Water Pump (Standby, Spare 1 ea 25 hp and 20 hp)
0	531-D20-AREC701 Leach Air Receiver (Standby)
8.5	531-D20-FI701 Filter Press (Standby 1 ea x 1 hp and 7.5 hp)
30	531-D20-CV701 Filter Cake Dual Screw Conveyor (Standby 2 ea x 15hp)
0	531-D20-AS701 Air Water Separator (Standby)
30	531-D20-AG704 Filtrate Tank Agitator (30 hp)
0	531-D20-TK706 Leach Filtrate Surge Tank
3	531-D20-P712 Filtrate Pump (3 hp)
3	531-D20-P713 Filtrate Pump (Spare 3 hp)
0	531-D20-FI702A Polishing Filter A
0	531-D20-FI702B Polishing Filter B
25	531-D20-AG702 Filter Cake Repulp Tank Agitator (25 hp)
0	531-D20-TK707 Leach Filter Cake Repulp Tank
7.5	531-D20-P719 Leach Repulp Transfer Pump (7.5 hp)
7.5	531-D20-P720 Leach Repulp Transfer Pump (Spare 7.5 hp)
30	531-D20-AG703 Tails Surge Tank Agitator (30 hp)
0	531-D20-TK708 Leach Tails Surge Tank
10	531-D20-P714 Leach Tails Pump (10 hp)
10	531-D20-P715 Leach Tails Pump (Spare 10 hp)
0.75	531-D20-SM702 Sampler (0.75 hp)
7.5	531-D20-P716 Filter Area Sump Pump (7.5 hp)
0	531-D20-Y01 Thickener #1 Flocculant Wetting Head
2	531-D20-AG709 Thickener #1 Flocculant Batch Tank Agitator
0	531-D20-TK712 Thickener #1 Flocculant Batch Tank
0	531-D20-TK713 Thickener #1 Flocculant Surge Tank
5	531-D20-P727 Thickener #1 Flocculant Metering Pump A
5	531-D20-P728 Thickener #1 Flocculant Metering Pump B
10	531-D20-P740 Leach Thickener #3 Underflow Pump (10 hp)
10	531-D20-P741 Leach Thickener #3 Underflow Pump (Spare 10 hp)
250	531-D20-P742 Leach Filter Feed Pump (250 hp)
250	531-D20-P743 Leach Filter Feed Pump (Spare 250 hp)
60	531-D20-P744 Leach Cake Wash Pump (60 hp)
60	531-D20-P745 Leach Cake Wash Pump (Spare 60 hp)
200	531-D20-P746 Leach Cloth Wash/Backwash Pump (200 hp)
200	531-D20-P747 Leach Cloth Wash/Backwash Pump (Spare 200 hp)
10	531-D20-P752 Leach Filter Area Sump Pump (North) (10 hp)

Capacity	Equipment Description
10	531-D20-P753 Leach Filter Area Sump Pump (South) (10 hp)
40	531-D20-P754 Leach Filter Press Hydraulic Pump (40 hp)
0	531-D20-TK754 Leach Filter Press Hydraulic Reservoir
0	531-D20-TK720 Leach Filter Feed Surge Tank
0	531-D20-TK722 Leach Cake/Cloth Wash Tank
20	531-D20-AG720 Leach Filter Feed Surge Tank Agitator (20 hp)
0	531-D20-AS704 Leach Air/Water Separator
0.5	531-D20-AC704 Leach Filter Press Hydraulic Air Cooler (0.5 hp)
0	531-D20-HT704A Leach Filter Press Hydraulic Reservoir Heater
0	531-D20-HT704B Leach Filter Press Hydraulic Reservoir Heater (Spare)
80	531-D20-CV706 Leach Filter Press Discharge Conveyor (2 x 40 hp)
0	531-D20-FI704 Leach Filter Press
0	531-D20-HO704 Leach Filter Press Hood
0	531-D20-HPU704 Leach Filter Press Hydraulic Power Unit
0	531-D20-CH704A Leach Filter Discharge Chute
0	531-D20-CH704B Leach Filter Conveyor Chute
0	531-D20-AREC704 Filter Press Air Receiver
1	531-D20-AG705 Leach Thickener #1 Mix Box Agitator (1 hp)
1	531-D20-AG706 Leach Thickener #2 Mix Box Agitator (1 hp)
1	531-D20-AG707 Leach Thickener #3 Mix Box Agitator (1 hp)
0	531-D20-HOD701 Leach Filter Press Hood (Standby)
0	531-D20-HT707 Leach Filter Press Hydraulic Oil Heater (Standby)
0	531-D20-CHU04 Leach Filter Press Discharge Chute (Standby)
0	531-D20-CHU05 Leach Filter Press Discharge Conveyor Discharge Chute (Standby)
0	531-D20-HPU701 Leach Filter Press Hydraulic Power Unit (Standby)
7.5	531-D20-P721 Leach Filter Area Sump Pump #2 (7.5 hp)
20	531-D20-P722 Leach Filter Area Sump Pump #3 (20 hp)
20	531-D20-P725 Leach Cake Wash Pump A (Standby 20 hp)
20	531-D20-P726 Leach Cake Wash Pump B (Standby, Spare 20 hp)
0	531-D20-FI703 Leach Pressure Leaf Filter
0	531-D20-BL701 Thickener #1 Dry Floc. Blower
0	531-D20-CV704 Thickener #1 Dry Floc. Screw Feeder
0	531-D20-EDU701 Thickener #1 Dry Floc. Eductor
0	531-D20-HP702 Thickener #1 Dry Floc. Hopper

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. This equipment shall not be operated unless it is vented to the properly functioning caustic scrubber under valid District permit C014254. [District Rules 1302 and 1320]

3. All material handling points except for the leach filter press discharge conveyor 531-D20-CV706 and the leach filter press discharge conveyor (standby) 531-D20-CV701 are to be fully enclosed or maintained at a sufficient moisture content such that there are no visible

emissions.

[District Rule 1303 - BACT]

4. Annual throughput of leach slurry processed by this equipment shall not exceed 210,590,400 lb/year.

[District Rules 1302 and 1320]

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

a. 42 tons per year of NO_x [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 SO_x

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]

6. 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]