



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

T011606

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 2025

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:

TANK FARM consisting of:

EQUIPMENT

Capacity	Equipment Description
0	J80-TK110 HCI STORAGE TANK 30,000 gallon
0	J80-TK112 HCI STORAGE TANK 30,000 gallon
0	J80-TK114 HCI STORAGE TANK 30,000 gallon
0	J80-TK116 HCI STORAGE TANK 30,000 gallon
0	J80-TK118 HCI STORAGE TANK 158,000 gallon
0	J80-TK120 HCI STORAGE TANK 158,000 gallon
40	J80-P110 HCI HIGH TRANSFER PUMP
0	J80-P112 HCI HIGH TRANSFER PUMP (BACK UP ONLY)
15	J80-P114 HCI LOW TRANSFER PUMP
0	J80-P116 HCI LOW TRANSFER PUMP (BACK UP ONLY)
6	J80-P118 HCL TRANSFER PUMP
6	J80-P120 HCL TRANSFER PUMP
7.5	F95-P100 HCI UNLOADING PUMP
7.5	F95-P300 HCI UNLOADING PUMP

Fee Schedule: 5 (c)

Rating: 1019000 gallons

SIC: 1099

SCC: 30301101

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
Air Pollution Control Officer

Capacity	Equipment Description
0	F95-AREC10 AIR ACCUMULATION TANK 85 gallon
0.25	J80-P119 CONTAINMENT AREA 2 SUMP PUMP
0.25	J80-P128 CONTAINMENT AREA 2 SUMP PUMPS
0.25	TBD CONTAINMENT AREA 3 SUMP PUMPS
0.25	TBD CONTAINMENT AREA SUMP PUMPS
0.25	TBD CONTAINMENT AREA SUMP PUMPS
0.25	TBD CONTAINMENT AREA SUMP PUMPS
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0.25	TBD CONTAINMENT AREA SUMP PUMPS
0.25	TBD CONTAINMENT AREA SUMP PUMPS
0	J80-TK100 H-EHEHP STORAGE TANK 30,000 gallon
0	J80-HX100 H-EHEHP HEAT EXCHANGER
20	J80-P100 H-EHEHP TRANSFER PUMP
0	J80-P101 H-EHEHP TRANSFER PUMP (BACK UP ONLY)
15	F95-P101 H-EHEHP UNLOADING PUMP
0.25	J80-P109 CONTAINMENT AREA 1 SUMP PUMP
0	J80-TK232 NaOH SOLUTION STORAGE TANK 30,000 gallon
0	J80-TK233 NaOH SOLUTION STORAGE TANK 30,000 gallon
0	J80-TK234 NaOH SOLUTION STORAGE TANK 30,000 gallon
0	J80-TK236 NaOH SOLUTION STORAGE TANK 30,000 gallon
0	J80-TK242 NaOH SOLUTION STORAGE TANK 30,000 gallon
0	J80-TK244 NaOH SOLUTION STORAGE TANK 30,000 gallon
0	J80-TK246 NaOH SOLUTION STORAGE TANK 30,000 gallon
0	J80-TK248 NaOH SOLUTION STORAGE TANK 30,000 gallon
7.5	J80-P232 NaOH SOLUTION TRANSFER PUMP
0	J80-P233 NaOH SOLUTION TRANSFER PUMP (BACK UP ONLY)
0	J80-HX232 NaOH SOLUTION TANK HEAT EXCHANGER
0	J80-HX235 NaOH SOLUTION TANK HEAT EXCHANGER
0	TBD NaOH SOLUTION TANK HEAT EXCHANGER
0	J80-AREC22 AIR ACCUMULATION TANK 85 gallon
0	J80-MX234 STATIC MIXER
40	J80-P234 NaOH SOLUTION HIGH TRANSFER PUMP
5	J80-P235 NaOH SOLUTION CIRCULATION PUMP
0	J80-P236 NaOH SOLUTION HIGH TRANSFER PUMP (BACK UP ONLY)
25	J80-P237 NaOH SOLUTION LOW TRANSFER PUMP
0	J80-P238 NaOH SOLUTION LOW TRANSFER PUMP (BACK UP ONLY)
40	TBD NaOH SOLUTION HIGH TRANSFER PUMP
5	TBD NaOH SOLUTION CIRCULATION PUMP
0	TBD NaOH SOLUTION HIGH TRANSFER PUMP (BACK UP ONLY)
25	TBD NaOH SOLUTION LOW TRANSFER PUMP
0	TBD NaOH SOLUTION LOW TRANSFER PUMP (BACK UP ONLY)
10	F95-P200 NaOH SOLUTION UNLOADING PUMP
0	F95-AREC20 AIR ACCUMULATION TANK 85 gallon
0.25	J80-P239 CONTAINMENT AREA 11 SUMP PUMP
0	J80-HX304 HOT WATER HEATER
10	J80-P304 HOT WATER CIRCULATION PUMP
0	J80-P306 HOT WATER CIRCULATION PUMP (BACK UP ONLY)
0	J80-TK310 CONDENSATE COLLECTION TANK 300 gallon
5	J80-P310 CONDENSATE PUMP

Capacity	Equipment Description
0	J80-P312 CONDENSATE PUMP (BACK UP ONLY)
0.25	J80-P219 CONTAINMENT AREA 9 SUMP PUMP
0	J80-HX320 TEMPERED WATER HEATER
5	J80-P320 SAFETY SHOWER CIRCULATION PUMP
0	J80-P321 SAFETY SHOWER CIRCULATION PUMP (BACK UP ONLY)
0	J80-TK200 BLEACH STORAGE TANK 30,000 gallon
0	J80-TK202 BLEACH STORAGE TANK 30,000 gallon
0	J80-TK201 BLEACH STORAGE TANK 30,000 gallon
0	TBD BLEACH STORAGE TANK 30,000 gallon
0	J80-MX200 BLEACH STATIC MIXER
3	J80-P200 BLEACH TRANSFER PUMP
3	J80-P202 BLEACH TRANSFER PUMP
0	J80-AREC21 AIR ACCUMULATION TANK 85 gallon
7.5	F95-P201 BLEACH UNLOADING PUMP
0.25	J80-P209 CONTAINMENT AREA 8 SUMP PUMP
0	J80-TK106 CeCl ₃ STORAGE TANK 30,000 gallon
0	TBD CeCl ₃ STORAGE TANK 30,000 gallon
7.5	J80-P106 CeCl ₃ TRANSFER PUMP
0	J80-AREC11 AIR ACCUMULATION TANK 85 gallon
0	J80-TK121 SXI PREGNANT LIQUOR SURGE TANK #1 - 33,000 gallon
0	J80-TK122 SXI PREGNANT LIQUOR SURGE TANK #2 - 33,000 gallon
0	J80-TK123 SXI PREGNANT LIQUOR SURGE TANK #3 - 33,000 gallon
0	J80-TK124 SXI PREGNANT LIQUOR SURGE TANK #4 - 33,000 gallon

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 be limited to storing the following substances:

- a. hydrochloric acid 37% maximum
- b. organic liquid HEHEHP
- c. sodium hydroxide solution
- d. bleach (NaClO)
- e. aqueous solutions of cerium chloride or other salts

[District Rules 1302 and 1320]

3. Annual throughput of HCl and HEHEHP limited as follows:

- a. hydrochloric acid 37% maximum: 40,000,000 gallons/year
- b. organic liquid HEHEHP: 1,000 gallons/year

[District Rules 1302 and 1320]

4. The following components of this equipment shall not be operated unless it is vented to properly functioning scrubber under valid District permit C011607:

- a. J80-TK110 HCl storage tank, 30,000 gallon capacity
- b. J80-TK112 HCl storage tank, 30,000 gallon capacity
- c. J80-TK114 HCl storage tank, 30,000 gallon capacity
- d. J80-TK116 HCl storage tank, 30,000 gallon capacity
- e. J80-TK118 HCl storage tank, 158,000 gallon capacity
- f. J80-TK120 HCl storage tank, 158,000 gallon capacity

[District Rules 1302 and 1320]

5. A balance line will be used to control emissions when filling this equipment with HCl from tank trucks.
[District Rules 1302 and 1320]

6. 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]

7. 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]