



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

B011542

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:

IRON URANIUM SEPARATIONS PROCESS consisting of:

EQUIPMENT

Capacity	Equipment Description
3	D20-TK093 ReCl3 Storage Tank
3	D35-TK040 Fresh HCl Regeneration Tank
3	D35-TK050 Recycle HCl Regeneration Tank
2	D35-TK060 Rare Earth Recovery Tank
1	D35-C0020 Ion Exchange Column
0	D35-C0040 Ion Exchange Column
1	D35-C0060 Ion Exchange Column
0	D35-C0080 Ion Exchange Column (4,000 gallons)
0	D35-TK180 Condensate Collection Tank
0	D35-MX010 6N HCL Static Mixer
0	D35-HX010 RECL3 Feed Heat Exchanger
0	D35-HX020 Fresh HCL Regen Tank Heat Exchanger

Fee Schedule: 5 (c)

Rating: 127400 gallons

SIC: 1099

SCC: 30504099

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	D35-HX050 Fe/U Product Cooler
0	D35-HX040 Recycle HCL Regen Tank Heat Exchanger
0	D35-P041 Fresh HCl Regeneration Pump (11.1 bhp)
0	D35-P051 Recycle HCl Regeneration Pump (11.1 bhp)
0	D35-P061 Rare Earth Recovery Pump (9.75 bhp)
0	D35-P071 RECl3 Feed Pump (27.1 bhp)
0	D35-P181 Condensate Return Pump (7.5 bhp)
0	D35-P182 Condensate Return Pump (7.5 bhp)
0	D35-P101 Containment Area 9 Sump Pump (0.25 bhp)
0	D35-P100 Containment Area 10 Sump Pump (0.25 bhp)
0	D35-P102 Containment Area 8 Sump Pump (0.25 bhp)
0	D35-P200 RO Water Pump (20.0 bhp)

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. Upon completion of the construction of the following equipment, C011634, and all required piping, this equipment will operate concurrently with the SXH/I Tank Farm scrubber under valid District permit C011634.

- a. ReCl3 Storage Tank (D20-TK093)
- b. Fresh HCl Regeneration Tank (D35-TK040)
- c. Recycle HCl Regeneration Tank (D35-TK050)
- d. Rare Earth Recovery Tank (D35-TK060)

[District Rule 1320]

3. The equipment listed in permit Condition #2 above shall not discharge hydrogen chloride at more than a maximum of 800 ppm v/v, per District rule 406. To demonstrate compliance with this limit, the owner/operator, o/o, shall demonstrate that the HCl concentration in the liquid shall remain at or below an HCl concentration of 22% in Tank D35-TK060 (B011542). The normality concentration and resulting HCl concentration shall be recorded weekly to show compliance with this limit, with results logged. The log shall be maintained current, kept on-site for a minimum of 5 years and provided to District personnel on request.

[District Rule 1320]

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

- a. 42 tons per year of NOx [District Rule 1303(B)]
 - b. 46 tons per year of PM10 [District 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 - Offsets]

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), Health & Safety Code 39607 & 44341-44342, 17 CCR 93400 et seq., and 40 CFR 51, Subpart A]