



# 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
3.3	D20-TK093 ReCl3 Storage Tank
3.3	D35-TK040 Fresh HCl Regeneration Tank
3.3	D35-TK050 Recycle HCl Regeneration Tank
1.5	D35-TK060 Rare Earth Recovery Tank
0.4	D35-C0020 Ion Exchange Column
0.4	D35-C0040 Ion Exchange Column
0.4	D35-C0060 Ion Exchange Column
0.14	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
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)

Fee Schedule: 5 (c)

Rating: 127400 gallons

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**  
**Eldon Heaston**  
Air Pollution Control Officer

Capacity	Equipment Description
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. 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. 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)

4. The equipment listed in permit condition 3 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 concentration shall be recorded weekly to show compliance with this limit and results shall be logged. The concentration log shall be maintained current, kept on-site for a minimum of 5 years, and provided to District personnel on request.

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]