



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

B014219

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:

BRINE CRYSTALLIZER consisting of:

EQUIPMENT

Capacity	Equipment Description
0	622-F81-ED001 Thermo Compressor
0	622-F81-HT100 1st Effect Heater (Steam)1
0	622-F81-ER100 1st Effect Vapor Body
300	622-F81-P100 1st Effect Recirculation Pump
0	622-F81-HT200 2nd Effect Heater (Steam)1
0	622-F81-ER200 2nd Effect Vapor Body
100	622-F81-P200 2nd Effect Recirculation Pump
0	622-F81-HT300 3rd Effect Heater (Steam)1
0	622-F81-ER300 3rd Effect Vapor Body
125	622-F81-P300 3rd Effect Recirculation Pump
0	622-F81-TK001 Condensate Tank 2400 gallon
15	622-F81-P401 Condensate Wash Pump
15	622-F81-P402 Condensate Wash Pump
25	622-F81-P421 Centrifuge Feed Pump

Fee Schedule: 1 (c)

Rating: 697 bhp

SIC: 1099

SCC: 30103607

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
25	622-F81-P422 Centrifuge Feed Pump
0	622-F81-CRU001 Condenser
0	622-F81-CYC100 Hydrocyclone
0	622-F81-TK003 Separator
25	622-F81-VP431 Vacuum Pump
25	622-F81-FP432 Vacuum Pump
0	622-F81-CENH100 Centrifuge
1.5	622-F81-MX441 Centrate Tank Mixer
0	622-F81-TK002 Centrate Tank 1320 gallon
20	622-F81-P411 Centrate Pump
20	622-F81-P412 Centrate Pump

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 Rules 204 and 1302]

2. There shall be no visible emissions from this material handling and material storage equipment. To demonstrate compliance with this opacity limitation the owner/operator shall conduct a monthly 6-minute visible emissions evaluation on each emission point and fugitive emission point associated with this equipment in accordance with USEPA Method 22. The evaluation must be conducted while the affected source is in operation. [District Rules 204, 401, 402, and 403]

3. Throughput from this equipment may not exceed 185,962 tons/year. [District Rule 1303 - Offsets]

4. This equipment shall only discharge to enclosed storage areas to minimize the potential for visible emissions. [District Rule 204]

5. The owner/operator, o/o, shall maintain the following records at a minimum:
a. Monthly visible emissions determinations; results logged;
b. salt solids throughput produced ton/year
Records shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request. [District Rule 401 and 1303]

6. Actual missions from this facility shall be less than the following:
a. 42 tons per year of NOx [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 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]

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]