



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

B014285

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:

CONCENTRATE THICKENER AND FILTRATION SYSTEM consisting of:

EQUIPMENT

Capacity	Equipment Description
20	521-D10-AG100 Filter Feed Tank Agitator (20 hp)
2	521-D10-AG101 Filtrate Tank Agitator (2 hp)
0	521-D10-AREC02 Air Receiver 1500 gallon
0	521-D10-AS02 Air Water Separator
5	521-D10-CN01 Concentrate Filtration Service Monorail Crane Electric Hoist (5 hp)
0	Filter Discharge Cake Conveyor Feed Chute
10	521-D10-DL01 Cake Discharge Screw Conveyor (Delumper, 10 hp)
0	Cake Discharge Screw Conveyor (Delumper) Feed Chute, Chute From Bottom of Filter Press to Inlet of Screw Conveyor (Delumper)
0	521-D10-FI02 Concentrate Dewatering Filter Press
20	521-D10-MO01 Concentrate Dewatering Filter Press Hydraulic Pump Motor (20 hp)
20	521-D10-MO02 Concentrate Dewatering Filter Press Hydraulic Unit Cooler Pump Motor (20 hp)
0	521-D10-HT Concentrate Dewatering Filter Press Hydraulic Unit Heater

Fee Schedule: 1 (c)

Rating: 497 bhp

SIC: 1099

SCC: 30301102

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	521-D10-CV02 Filter Discharge Cake Conveyor
150	521-D10-P101 Filter Feed Pump A (Centrifugal Slurry Pump, 150 hp)
150	521-D10-P102 Filter Feed Pump B (Centrifugal Slurry Pump, 150 hp)
3	521-D10-P103 Filtrate Pump A (Centrifugal Pump, 3 hp)
3	521-D10-P104 Filtrate Pump B (Centrifugal Pump, 3 hp)
10	521-D10-P105 Filtration Area Sump Pump (Vertical Cantilever Sump Pump, 10 hp)
100	521-D10-P106 Filter Wash Water Pump No. 1 (100 hp)
100	521-D10-P107 Filter Wash Water Pump No. 2 (100 hp)
2	521-D10-P52 Concentrate Thickener Underflow Pump A (Centrifugal Slurry Pump, 2 hp)
2	521-D10-P53 Concentrate Thickener Underflow Pump B (Centrifugal Slurry Pump, 2 hp)
0	521-D10-SHWR21 Safety Shower No. 1 (Safety Shower and Eyewash)
0	521-D10-TK100 Filter Feed Tank 19800 gallon
0	521-D10-TK101 Filtrate Tank 960 gallon
0	521-D10-TK102 Filter Wash Tank 1400 gallon
0	521-D10 Two Cameras on 521-D10-CV02 Filter Discharge Cake Conveyor

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. All material handling points except for the following transfer points are to be fully enclosed or maintained at a sufficient moisture content such that there are no visible emissions. 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.

- a. Concentrate Dewatering Filter Press 521-D10-FI02 to Filter Discharge Cake Conveyor 521-D10-CV02
 - b. Filter Discharge Cake Conveyor 521-D10-CV02 to Concentrate Dryer Feed Conveyor MPM Equipment ID TBD
- [District Rule 1303 - BACT]

3. Annual throughput of concentrate processed by the Concentrate Dewatering Filter Press 521-D10-FI02 and the Filter Discharge Cake Conveyor 521-D10-CV02 shall not exceed 230,388,000 lb/year. [District Rules 1302 and 1320]

4. The owner/operator, o/o, shall maintain the following records at a minimum:

- a. Monthly visible emissions determinations as required by condition 2; results logged;
- b. Concentrate throughput processed lb/year.

Items a and b shall be logged at least monthly. Records shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

[District Rules 401 and 1303 - BACT]

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]