



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

B014303

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:

PRASEODYMIUM NEODYMIUM THICKENER AND FILTRATION SYSTEM consisting of:

EQUIPMENT

Capacity	Equipment Description
0	562-F66-TK01 PrNd Surge Tank No. 1 32000 gallon
0	562-F66-TK02 PrNd Surge Tank No. 2 32000 gallon
0	562-F66-TK03 PrNd Surge Tank No. 3 32000 gallon
0	562-F66-TK04 PrNd Surge Tank No. 4 32000 gallon
3	562-F66-P01 PrNd Precipitation Feed Pump A
3	562-F66-P02 PrNd Precipitation Feed Pump B
3	562-F66-P03 PrNd Precipitation Feed Pump A
3	562-F66-P04 PrNd Precipitation Feed Pump B
10	562-F66-P60 PrNd Blending Area Sump Pump
0	562-F66-TK09 Oxalic Acid Mixing Tank No. 1 5000 gallon
0	562-F66-TK10 Oxalic Acid Mixing Tank No. 2 5000 gallon
5	562-F66-AG101 Oxalic Acid Mix Tank No. 1 Agitator

Fee Schedule: 1 (c)

Rating: 816 bhp

SIC: 1099

SCC: 30503834

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
5	562-F66-AG102 Oxalic Acid Mix Tank No. 2 Agitator
5	562-F66-P18 Oxalic Acid Pump A
5	562-F66-P19 Oxalic Acid Pump B
5	562-F66-P20 Oxalic Acid Pump A
5	562-F66-P21 Oxalic Acid Pump B
0	562-F66-HX01 Heat Exchanger
0	562-F66-TK11 Oxalic Acid Storage Tank A 33000 gallon
0	562-F66-TK12 Oxalic Acid Storage Tank B 33000 gallon
0	562-F66-HX02 Heat Exchanger
0	562-F66-HX03 Heat Exchanger
5	562-F66-P22 Oxalic Acid Pump A
5	562-F66-P23 Oxalic Acid Pump B
5	562-F66-P24 Oxalic Acid Pump C
5	562-F66-P25 Oxalic Acid Pump D
10	562-F66-P61 Oxalic Acid Area Sump Pump
0	562-F66-TK24 High Acid Pump Tank 4300 gallon
25	562-F66-P67 High Acid Pump A
25	562-F66-P68 High Acid Pump B
0	562-F66-TK16 Soda Ash Day Tank 33000 gallon
5	562-F66-P29 Soda Ash Pump A
5	562-F66-P30 Soda Ash Pump B
0	562-F66-HX04 Soda Ash Day Tank Heat Exchanger
0	562-F66-HX05 Soda Ash Day Tank Heat Exchanger
0	562-F66-TK05 PrNd Precipitation Tank No. 1 14000 gallon
0	562-F66-TK06 PrNd Precipitation Tank No. 2 14000 gallon
0	562-F66-TK07 PrNd Precipitation Tank No. 3 14000 gallon
0	562-F66-TK08 PrNd Precipitation Tank No. 4 14000 gallon
10	562-F66-AG01 PrNd Precipitation Tank Agitator No. 1
10	562-F66-AG02 PrNd Precipitation Tank Agitator No. 2
10	562-F66-AG03 PrNd Precipitation Tank Agitator No. 3
10	562-F66-AG04 PrNd Precipitation Tank Agitator No. 4
15	562-F66-P14 PrNd Precipitation Pump A
15	562-F66-P15 PrNd Precipitation Pump B
10	562-F66-P31 PrNd Precipitation Area Sump Pump
0	562-F66-TH01 PrNd Thickener No. 1 Tank
0	562-F66-TK15 PrNd Thickener No. 1 Mix Box 440 gallon
0	562-F66-MX01 PrNd Thickener No. 1 Flocculant Mixer
20	562-F66-ME01 PrNd Thickener No. 1 Mechanism
5	562-F66-P34 PrNd Thickener No. 1 Underflow Pump A
5	562-F66-P35 PrNd Thickener No. 1 Underflow Pump B
0	562-F66-TK26 PrNd Thickener No. 1 Overflow Tank 740 gallon
7.5	562-F66-P38 PrNd Thickener No. 1 Overflow Pump A
7.5	562-F66-P39 PrNd Thickener No. 1 Overflow Pump B
0	562-F66-TH02 PrNd Thickener No. 2 Tank
0	562-F66-TK21 PrNd Thickener No. 2 Mix Box 440 gallon
0	562-F66-MX02 PrNd Thickener No. 2 Flocculant Mixer
20	562-F66-ME02 PrNd Thickener No. 2 Mechanism
5	562-F66-P36 PrNd Thickener No. 2 Underflow Pump A
5	562-F66-P37 PrNd Thickener No. 2 Underflow Pump B
10	562-F66-P40 PrNd Thickener Area Sump Pump

Capacity	Equipment Description
0	562-F66-HX06 Heat Exchanger
0	562-F66-BX01 Belt Filter Feed Distributor
20	562-F66-FI01 PrNd Belt Filter
0	562-F66-HD01 PrNd Belt Filter Vent Hood
100	562-F66-BI02 PrNd Belt Filter Air Deck Blower
7.5	562-F66-CV01 PrNd Belt Filter Cake Discharge Conveyor
0	562-F66-WT01 PrNd Belt Filter Cake Discharge Conveyor Scale
0	562-F66-SIL01 Belt Filter Vacuum Pump Silencer
40	562-F66-VP01 Belt Filter Vacuum Pump A
40	562-F66-VP02 Belt Filter Vacuum Pump B
0	562-F66-TK13 Belt Filter Vacuum Pump Moisture Trap
0	562-F66-TK14 Low Acid Tank 520 gallon
1.5	562-F66-P41 Low Acid Pump A
1.5	562-F66-P42 Low Acid Pump B
0	562-F66-TK23 PrNd Belt Filter Second Stage Wash Receiver
0.5	562-F66-P54 PrNd Belt Filter Second Stage Wash Pump
0	562-F66-TK22 PrNd Belt Filter First Stage Wash Receiver
0.5	562-F66-P53 PrNd Belt Filter First Stage Wash Pump
0	562-F66-TK29 PrNd Belt Filter Filtrate Receiver
0.5	562-F66-P51 PrNd Belt Filter Filtrate Pump A
0.5	562-F66-P52 PrNd Belt Filter Filtrate Pump B
0	562-F66-TK17 PrNd Belt Filter Cake Repulp Tank 800 gallon
3	562-F66-AG06 PrNd Belt Filter Cake Repulp Tank Agitator
5	562-F66-P43 PrNd Belt Filter Cake Repulp Pump A
5	562-F66-P44 PrNd Belt Filter Cake Repulp Pump B
0	562-F66-TK18 PrNd Filter Press Feed Tank 8900 gallon
7.5	562-F66-AG07 PrNd Filter Press Feed Tank Agitator
100	562-F66-P45 PrNd Filter Press Feed Pump A
100	562-F66-P46 PrNd Filter Press Feed Pump B
0	562-F66-AREC01 Air Receiver
0	562-F66-TK19 PrNd Filter Press Water Wash Tank 500 gallon
0.5	562-F66-P47 PrNd Filter Press Wash Water Pump A
0.5	562-F66-P48 PrNd Filter Press Wash Water Pump B
0	562-F66-FL02 PrNd Filter Press
0	562-F66-HD01 PrNd Filter Press Vent Hood
50	562-F66-MO01 PrNd Filter Press Hydraulic Pump
0	562-F66-HT01 PrNd Filter Press Hydraulic Oil Heater
7.5	562-F66-CV03 PrNd Filter Press Cake Conveyor/Chute
0	562-F66-WT03 PrNd Filter Press Cake Conveyor Scale
0	562-F66-AS01 Filter Press Air Water Separator 2550 gallon
0	562-F66-TK20 PrNd Filter Press Filtrate Tank 520 gallon
1.5	562-F66-AG08 PrNd Filter Press Filtrate Tank Agitator
3	562-F66-P49 PrNd Filter Press Filtrate Pump A
3	562-F66-P50 PrNd Filter Press Filtrate Pump B
10	562-F66-P65 PrNd Filter Area Sump 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 Rule 1302]

2. This equipment shall not be operated unless it is vented to the properly functioning Praseodymium Neodymium Scrubber under valid District permit C014302.
[District Rules 1302 and 1320]

3. This system and all material handling points are to be fully enclosed.
[District Rule 1303 - BACT]

4. 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]

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); H&S Code 39607 & 44341-44342; and 40 CFR 51, Subpart A]