MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
14306 Park AvenueVictorville,CA92392-2310
760.245.1661 -- 800.635.4617 -- FAX760.245.2022

AUTHORITY TO CONSTRUCT

C014302

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 2026

OWNER OF OPERATOR (Co.#2349)

MP Mine Operations LLC
67750 Bailey Road
Mountain Pass,CA92366

EQUIPMENT LOCATION (Fac.#364)

Mountain Pass Mine
67750 Bailey Road
Mountain Pass,CA92366

Description:
PRASEODYMIUM NEODYMIUM SCRUBBER consisting of:Bionomic Industries Series 5000 Model 46 Packed Tower. 25 inch dia. x 15' high, 198 gallon.

EQUIPMENT

Capacity	Equipment Description
0	562-F66-STK02 PrNd Precipitation Fume Scrubber Stack
0	562-F66-FN06 Dust Collection Fan
0	562-F66-FN07 Dust Collection Fan
0	562-F66-SSE01 PrNd Precipitation Fume Scrubber
0	562-F66-P69 PrNd Precipitation Scrubber Circulation Pump A
0	562-F66-P70 PrNd Precipitation Scrubber Circulation Pump B

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]

Fee Schedule:7 (h) Rating:1device SIC:1099 SCC:39999989 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,NV89135

By: **COPY**
Brad Poiriez
Air Pollution Control Officer

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[District Rule 1302]

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[District Rule 1302]

2.This equipment shall control emissions from and be operated concurrent with the Praseodymium Neodymium Thickener and Filtration System under valid District permit B014303.
[District Rules 1302 and 1320]

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[District Rules 1302 and 1320]

3.HCl emissions from this scrubber shall not exceed 1 PPMV which shall be verified by an initial source test to be conducted within 180 days of start up in accordance with the District Compliance Test Procedural Manual. No less than 30 days prior to the proposed test date a written protocol shall be submitted for review and approval. No less than 10 days prior to the proposed test date written notification of test date shall be submitted to the District. No later than 45 days after the test is performed, a written test report shall be submitted. All documents pertaining to the referenced source test shall be submitted to reporting@mdaqmd.ca.gov.
[District Rule 1520]

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[District Rule 1520]

4.A pH meter shall be installed to indicate the pH of the scrubbant (water). Furthermore, the pH shall be maintained between 4 and 8 and the meter shall be calibrated at least quarterly in accordance with the manufacturer's procedures.
[District Rules 1302 and 1303]

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[District Rules 1302 and 1303]

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[District Rules 1302 and 1303]

5.A flow meter, of appropriate range, shall be installed and maintained (including calibration) in accordance with manufacturers specification. The flow meter shall be installed such that measurements reflect the scrubbant recirculation flow.
[District Rule 1302]

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[District Rule 1302]

6.When in operation, the minimum scrubbant recirculation flow rate is 30 GPM and the scrubber pressure drop shall be maintained between 0 and 10 inches water column. Scrubbant recirculation flow rate and pressure drop shall be recorded daily.
[District Rule 1302]

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[District Rule 1302]

7.This equipment does not require regular emissions testing however testing may be required at District discretion.
[District Rule 1320]

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[District Rule 1320]

8.In the event of a malfunction of any emissions related part of this scrubber, thePraseodymium Neodymium Thickener and Filtration System under District permit B014303 must be shut down as soon as safely possible and shall not be restarted until all malfunctions have been corrected. Equipment breakdowns shall be reported to the District in accordance with District Rule 430.
[District Rules 430 and 1302]

8.In the event of a malfunction of any emissions related part of this scrubber, the Praseodymium Neodymium Thickener and Filtration System under District permit B014303 must be shut down as soon as safely possible and shall not be restarted until all malfunctions have been corrected. Equipment breakdowns shall be reported to the District in accordance with District Rule 430.
[District Rules 430 and 1302]

8.In the event of a malfunction of any emissions related part of this scrubber, thePraseodymium Neodymium Thickener and Filtration System under District permit B014303 must be shut down as soon as safely possible and shall not be restarted until all malfunctions have been corrected. Equipment breakdowns shall be reported to the District in accordance with District Rule 430.
[District Rules 430 and 1302]

9.The owner/operator must maintain an operations log for this equipment. This log shall be maintained current, kept for a total of five (5) years and be provided to authorized personnel upon request. The log shall contain the following at a minimum:
a. Daily scrubbant pH readings;
b. Dates and results of all quarterly pH meter calibrations as required by Condition #4;
c. Daily pressure differential recording;
d. Daily scrubbant recirculation flow meter recording as required by Condition #6;
e. Annual inspection of spray nozzle(s) and spray nozzle system;
f. Dates and description of maintenance, repairs/replacements performed; and,
g. Times and durations of malfunctions, a description of each malfunction, and the corrective action taken for each malfunction. [District Rules 401 and 1302]

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b. Dates and results of all quarterly pH meter calibrations as required by Condition #4;
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f. Dates and description of maintenance, repairs/replacements performed; and,
g. Times and durations of malfunctions, a description of each malfunction, and the corrective action taken for each malfunction. [District Rules 401 and 1302]

10.Actual emissions 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]

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[District Rule 1303]

11. 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]

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[District Rule 107(b); H&S Code 39607 & 44341-44342; and 40 CFR 51, Subpart A]

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[District Rule 107(b); H&S Code 39607 & 44341-44342; and 40 CFR 51, Subpart A]