



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

B011949

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:

LANTHANUM CARBONATE PRODUCTION consisting of: Permit fees calculated in accordance with Rule 301(E)(2)(e) as follows: [btu + hp x 2550]/1,000,000

EQUIPMENT

Capacity	Equipment Description
0	572-F65-CAL171 Lanthanum Carbonate Calciner
15	F65-CAL171MI1 Calciner Main Drive Motor
3	F65-CAL171M2 Calciner Auxiliary Drive Motor
10	F65-BR171 Calciner Low Nox Burner
0	572-F65-HP201 Lanthanum Carbonate Bin
1	572-F65-RV201 Lanthanum Carbonate Bin Rotary Valve
5	572-F65-CV201 Lanthanum Carbonate Calciner Feed Conveyor
15	572-F65-BL171 Blower
15	572-F65-CLR171 Cooler
3	572-F65-ZL180 Lanthanum Carbonate Bucket Elevator
2.5	572-F65-SC181 Lanthanum Trash Screen
0	572-F65-HP182 30 Tonne Dry Lanthanum Carbonate Bin
0	572-F65-PK182 Weigh Scale

Fee Schedule: 2 (e)

Rating: 10150000 Btu

SIC: 1099

SCC: 30599999

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

CONDITIONS:

1. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
[District Rules 204 and 1303]

2. Throughput processed may not exceed 35,419 tons/yr.
[District Rule 1303 - Offsets]

3. NO_x emissions from the calciner (F65-CAL171) shall not exceed 106.87 ppm NO_x, calculated at 3% O₂.
[District Rule 1303]

4. The owner/operator, o/o, shall perform an annual compliance test in accordance with the MDAQMD Compliance Test Procedural Manual. The annual test shall be performed no more than 12 months from the date of the prior annual test. The o/o shall conduct all required compliance/certification tests in accordance with a District-approved test plan. Thirty (30) days prior to the compliance/certification tests the operator shall provide a written test plan for District review and approval. Written notice of the compliance/certification test shall be provided to the District ten (10) days prior to the tests so that an observer may be present. A written report with the results of such compliance/certification tests shall be submitted to the District within forty-five (45) days after testing. All compliance/certification test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

The following annual compliance test is required and must be conducted at full load:

a. NO_x as NO₂ in ppmvd at 3% oxygen (measured per USEPA Reference Method 7E).

A source test shall be performed on this equipment within 90 days of full commissioning following re-start, and no later than 180 days from resuming operation.
[District Rule 1302(C)(2)(a)]

5. All material handling equipment included in this system and all material transfer points shall be enclosed and vented to the properly functioning baghouse under valid District permit number C011948.
[District Rule 1303 BACT]

6. Materials processed by equipment delineated above shall maintain compliance with District rules 401, 402, and 403.

7. 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]