



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

C011178

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:

SELECTIVE CATALYTIC REDUCTION SYSTEM #2 consisting of: Selective catalytic reduction system, manufacturer and model to be determined, with a catalyst located within the combustion turbine under permit B011184 and an ammonia injection system designed to reduce emissions of NOx

CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.
3. This equipment shall be operated concurrently with the combustion turbine under valid permit B011184.
4. Ammonia shall be injected whenever the selective catalytic reduction system has reached or exceeded the minimum required operating temperature as determined by the equipment manufacturer except for periods of equipment malfunction. Except during periods of startup, shutdown and malfunction, ammonia slip shall not exceed 5.0 ppmv dry at 15% oxygen.

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 1099

SCC: 99999999

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

5. Ammonia injection by this equipment in pounds per hour shall be recorded and maintained on site for a minimum of five (5) years and shall be provided to District personnel on request.

6. The catalyst inlet temperature shall be maintained between 400 and 850 degrees Fahrenheit. The catalyst inlet temperature shall be continuously monitored while the engine this unit serves is in operation. Other parameters may be monitored instead as a part of a District-approved parametric monitoring protocol.

7. The owner/operator must surrender to the District sufficient valid Emission Reduction Credits for this equipment before the start of construction of any part of the project for which this equipment is intended to be used. In accordance with Regulation XIII the owner/operator shall obtain 17 tons of NOx offsets and 46 tons of PM10 offsets for the new equipment proposed for Stage I and Stage II of the project.

8. PM10 Emissions from the CHP Plant including all equipment under District permit numbers: B011111, B011112, B011177, B011184, B011185, B011186, C011113, C011114, C011178, C011179, C011180, C011181, C011182, C011183, E011115, E011175, E011176 shall not exceed 36.1 tons/year. Cumulative PM10 emissions from the CHP Plant shall be calculated on a monthly basis in lb/month and tons per rolling twelve months. PM10 emissions calculations for the CHP plant shall be made available to the District upon request and shall be kept on site for a minimum of five (5) years.

9. Mountain Pass Mine Voluntary Emissions Limit/Synthetic Minor Hazardous Air Pollutant Limits:

(a). General Limits for Entire Facility. The total emissions for the Mountain Pass Mine shall be less than 25 tons per year of VOC. The total emissions of Hazardous Air Pollutants (HAPs) for the Mountain Pass Mine shall not exceed 9.9 tons per year for any single HAP and 24.9 tons per year for any combination of HAPs calculated on an annual basis. HAPs are defined in 40 CFR 61.01 Lists of pollutants and are the chemical compounds listed in section 112(b) of the Clean Air Act (Act).

(b). Monitoring, Periodic Monitoring & Recordkeeping Conditions. To prove compliance with condition (a) above, permittee shall maintain usage records of all VOC- and HAP-containing solvent materials. Such records shall be compiled into an annual usage report and added to the Potential to Emit from permitted equipment to show that HAP limits cannot be exceeded per the PTE calculations as approved by the district. For equipment where PTE calculations are not available, annual total HAP emissions shall be calculated from solvent operations and be added to the annual HAP emissions from fuel burning and other HAP emitting equipment. Annual or PTE HAP/VOC emissions from fuel burning and other emitting equipment for purposes of this condition shall be determined by use of HAP/VOC emissions factors (as set forth by District approved emission factors), or by annual actual emissions as determined by source test of the equipment, or by methods and emission factors established in an approved comprehensive Emission Inventory Plan (CEIP).

(c) A facility wide Comprehensive Emission Inventory (CEIR) must be submitted to the District, in a format approved by the District, for all emitted criteria air pollutant on a yearly basis, and every three years for toxic air pollutants, which is to be received by the District no later than May 31 of the following year.

[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[California Clean Air Act, Health and Safety Code \S\S39607 and \S\S44300 et seq., and the Federal Clean Air Act, \S110(a)(2)(F)(ii), codified in 40 CFR 60 Subpart Q]