



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

B014368

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: JUNE 2026

OWNER OF OPERATOR (Co.#2502)

Castle Mountain Venture
980 American Pacific Dr., Suite 102
Henderson, NV 89014

EQUIPMENT LOCATION (Fac.#3896)

Castle Mountain Mine
115575 Hart Mine Road
Ivanpah, CA 92364

Description:

CRUSHING AND SCREENING, ORE AGGLOMERATION MAIN PLANT consisting of:

EQUIPMENT

Capacity	Equipment Description
80	Feeder (x2), Lippman, 51x20, 40 hp
400	Primary Jaw Crusher (x2), KPI, 30-55, 200hp
40	Jaw Conveyor (x2), DeAtley Crushing, 20 hp
50	Main Conveyor (x2), DeAtley Crushing, 25 hp
80	Cone Screen Box (x2), JCI, 40 hp
600	Cone Crusher (x2), KPI-JCI, 1400LS, 300 hp
50	Cone Conveyor (x2), DeAtley Crushing, 25 hp
40	Cone Screen Underflow Conveyor (x2), DeAtley Crushing, 20 hp
40	Cone Bypass Conveyor (x2), DeAtley Crushing, 20 hp
50	Finish Collector Conveyors (x2), DeAtley Crushing, 25 hp
200	Overland Conveyors (x2), Superior Zipline 100 hp
880	Grasshopper Conveyors (x44), DeAtley Crushing, 20 hp
80	Stacker Conveyors (x2), Superior, Telestacker, 40 hp
3	Plant Water Tank and Pump, DeAtley Crushing, 3 hp

Fee Schedule: 1 (d)

Rating: 2750.5 bhp

SIC: 1041

SCC: 30301302

Location/UTM(Km):
672E/3905N

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.

Castle Mountain Venture
980 American Pacific Dr.

Henderson, NV 89014

By: **COPY**

Eldon Heaston
Air Pollution Control Officer

Capacity	Equipment Description
10	Drop Point Box Water Pump, Goulds 10 hp
7.5	High Pressure Water Dust Suppression System, Goulds, 7.5 hp
40	Second Cone Bypass Conveyor (x2), DeAtley Crushing, 20 hp
50	First Finish Conveyor (x2), DeAtley Crushing, 25 hp
50	Second Finish Conveyor (x2), DeAtley Crushing, 25 hp

CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accord 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 204]

2. The owner/operator shall limit the daily production (sum of all products) to 18,200 tons per day.

[District Rule 1302 and 1303]

3. The owner/operator shall limit the annual production (sum of all products) to 6.25 million tons per year.

[District Rule 1302]

4. The owner/operator shall comply with all applicable Rules and Regulations of the District. Applicable rules include, but are not necessarily limited to District Rules 401, 402, and 403.

[District Rule 204]

5. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 60, Subpart LL Standards of Performance for Metallic Mineral Processing Plants and Subpart A-General Provisions. In the event of conflict between Permit conditions and the requirements of 40 CFR Part 60, Subpart LL and Subpart A, the more stringent requirements shall govern.

[District Rule 204]

6. Roadways, work areas, stockpiles, and materials being processed shall be kept wetted and/or have sufficient naturally occurring moisture to control fugitive dust. Equipment to properly wet the material being processed shall be maintained in operable condition on-site and used as necessary to assure compliance.

[District Rule 204]

7. Per District Rule 401- Visible Emissions, fugitive dust emissions shall be less than 20% opacity when aggregated more than three (3) minutes in any one (1) hour, excluding uncombined water vapor.

[40 CFR Part 60 Subpart LL]

8. Visible emissions shall not exceed 10% opacity during any one hour (ten 6-minute averages) from process fugitive source including each crusher, screen, conveyor belt transfer point, storage bin, and truck loading station as defined in 40 CFR Part 60, Subpart LL. The opacity standards shall apply at all times except during periods of startup, shutdown, and malfunction.

[40 CFR 60.382(b)]

9. A person shall not cause or allow the emissions of fugitive dust from any transport, handling, construction or storage activity so that the presence of such dust remains visible in the atmosphere beyond the property line of the emission source.

[District Rule 403]

10. A high pressure water spray system shall be installed and operated at all conveyor points of charge and discharge, crushers, feeders, and screens prior to the Drop Point Box for Agglomeration to control fugitive emissions. High pressure water spray system shall be defined as a commercially available water spray system or comparable custom designed water spray system with MDAQMD

approval which can be readily controlled, has an operating pressure of at least 150 psig as measured at the main manifold, and produces an atomized spray to suppress airborne dust.

[District Rule 1302]

11. The owner/operator shall install, calibrate, maintain and operate a device for the continuous measurement of the pressure of the water spray system.

[District Rule 1302]

12. The owner/operator must perform monthly inspections of all wet suppression systems to verify that water is properly flowing through all discharge spray nozzles. The owner/operator must initiate corrective action within 24 hours and complete corrective action as expediently as practical if they find that water is not flowing properly, or, is not flowing at sufficient operating pressures, during inspections.

[District Rule 1302]

13. The owner/operator must conduct an EPA Method 9 initial compliance test per 40 CFR 60, Subpart LL requirements for each process fugitive emission point associated with this equipment. The initial compliance test must be conducted within 60 days of achieving full production rate but in no case later than 180 days following initial startup. Compliance test shall be carried out in accordance with the test methods defined in 40 CFR 60.11, 40 CFR 60, Subpart LL, Section 60.675, and the District Compliance Test Procedural Manual. Opacity observations shall be conducted (to the extent possible) under normal operating conditions. [40 CFR 60.672]

The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov

14. A facility log shall be maintained on-site for at least five (5) years and made available to District personnel upon request. This log shall contain, at a minimum:

- a) The tons of product produced each month (monthly throughput),
- b) Annual throughput (in tons),
- c) Monthly wet suppression inspection result, including dates,
- d) Maintenance and malfunction records, including dates,
- e) Daily water spray system pressure recording, and
- f) Results of initial EPA Method 9 performance test.

[District Rules 204 & 1302]

15. 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]