



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

B013385

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 2025

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:

CARBON REGENERATION KILN, DIESEL FIRED consisting of: Rotary kiln manufactured by Kemix, Model 660 lb/hr, Serial No. TBD, indirectly heated by four individual diesel fired burners manufactured by IDEA, Model LO200AB, with an aggregated total burner rating 2.73 MMBtu/hr (4 burners x 200 kW x 3,412 Btu/kW) and a max fuel usage rate of 14.7 gal/hr. Combustion gases are separate from kiln exhaust. 2,550 Btu for each horsepower (2,550 Btu/HP x 1 HP = 2,550 Btu). Stack Data H: 50 ft Diam: 14 inch Temp: 350-500 F ACFM: 1,268

EQUIPMENT

Capacity	Equipment Description
0	Dewatering Screw Feeder
0.5	Dewatering Screw Feeder Drive, 0.37 kW (0.37kW x 1.341=0.5 HP)
1	Maindrive, 0.75 kW (0.75kW x 1.341= 1 HP)
0.74	DC Backup Drive (0.55 kW x 1.341=0.74HP)

CONDITIONS:

1. The owner/operator shall install, operate and maintain this permit unit in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. [District Rule 204]

Fee Schedule: 2 (c)

Rating: 2732550Btu

SIC: 1041

SCC: 30100603

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**

Brad Poiriez

Air Pollution Control Officer

2.This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per CARB Diesel or equivalent requirements. [17 CCR 93115; 60.4207(b); District Rule 431]

3.The maximum charge rate of carbon shall not exceed 660 pounds per hour and not more than 2,890 tons per year.
[District Rule 1302; Facility requested limit]

4.The operating temperature of this unit shall be maintained at a minimum of 1380 degrees Fahrenheit.
[District Rule 1302]

5.Process gases in contact with carbon shall only exhaust to atmosphere through the Kiln Exhaust Scrubber under District Permit C013386.

6.The owner/opertor shall continuously monitor the kiln operating temperature using a temperature gauge which shall be maintained and calibrated in accordance with manufacturer specifications.

7.The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:

a. Hourly and annual carbon charge amount (in pounds and tons).

8.The owner/operator shall submit an application to the MDAQMD for a Federal Operating Permit no later than 12 months after commencing operations of affected sources. Specifically, "affected source" refers to the following equipment under permit B013383 (Adsorption, Desorption, and Refining (ADR) Plant): electrowinning cells, carbon regeneration kiln (B013385), smelting furnace, mercury retort system, and supporting equipment.
[40 CFR 63.11640(d); District Rule 1202(B)(3)(c)]