



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue Victorville, CA 92392-2310
 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

PERMIT TO OPERATE

B008971

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

EXPIRES LAST DAY OF: DECEMBER 2026

OWNER OF OPERATOR (Co. #629)

Specialty Minerals, Inc
 6565 Meridian Road
 Lucerne Valley, CA 92356

EQUIPMENT LOCATION (Fac. #262)

Specialty Minerals, Inc
 6565 Meridian Road
 Lucerne Valley, CA 92356

Description:

RAYMOND MILL #7 MILL AND HEATER SYSTEM consisting of: A milling system and associated propane-fired heating system as follows. Note that for rating purposes each horsepower is equivalent to 2550 Btu.

EQUIPMENT

Capacity	Equipment Description
0	RMB 707 - Feed Bin
0.00765	DSC 707 - Discharger, Feed Bin, 3 hp
0.02	RFD 707 - Feeder, 10 hp
0.19	RWD 707 - Whizzer, 75 hp
7.1	FB 707 - Heater (Fire Box), rated 7.1 MMBtu/hr
1.02	RMD 707 - Mill and Drive Motor, 400 hp
0.89	FAN 707 - Fan, 350 hp
0.001275	OP 717 - Mill Bearing Oil Pump, 0.5 hp
0.001275	FAN 727 - Water Cooling Fan, 0.5 hp
0.0051	OP 727 - Water Cooling Circulation Pump, 2 hp
0.001275	OP 737 - Oil Pump, 0.5 hp
0.02	BLR 737 - Combustion Air Blower, 10 hp

Fee Schedule: 8 (e)

Rating: 10090000 Btu

SIC: 1422

SCC: 30502006

Location/UTM(Km):
 508E/3803N

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.

Specialty Minerals, Inc
 P.O. Box 558
 Lucerne Valley, CA 92356

By: **COPY**
 Brad Poiriez
 Executive Director

Capacity	Equipment Description
0	RMC 707 - Cyclone
0.001275	ROT 707 - Cyclone Rotary Valve, 0.5 hp
0.0051	SCH 712 - Screen, 2 hp
0.0051	CSC 707 - Oversize Conveyor, 2 hp
0	BIN 708 & 709 - Pumping Hoppers
0.02	ROT 708 & 709 - Two Pumping Hopper Rotary Valves, 5 hp each
0.38	BLR 707 - Pumping Blower for Pneumatic Conveyor, 150 hp
0.02	ROT 710 & 711 - Two Pumping Hopper Rotary Valves, 5 hp each
0.38	BLR 708 - Product Transfer Blower for Pneumatic Conveyor, 150 hp

CONDITIONS:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[District Rule 1302(B)(1)(a)]

2. This equipment shall operate concurrently with and vent to the air pollution control equipment DCL 740 (C008972) and DCL941 (C008969), as applicable.
[District Rule 1302(B)(1)(a)]

3. The owner/operator (o/o) shall maintain this equipment 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 1302(B)(1)(a)]

4. Owner/operator shall conduct stack and transfer fugitive emission point observations (using USEPA Method 22, and USEPA Method 9 if necessary) on a quarterly basis. The frequency of observations of emission points may be reduced to annual for those emission points that are contained within a building and observed at all exits or openings of the building.
[District Rule 1302(B)(1)(a)]

5. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State and/or Federal personnel upon request:
 - a. Quarterly stack and transfer/fugitive emission point observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
 - b. Date and nature of any system repairs;
 - c. Monthly and rolling twelve-month cumulative fuel input to the heater (in Btus); and,
 - d. Monthly and rolling twelve-month cumulative throughput in tons.
[District Rule 1302(B)(1)(a)]

6. This equipment shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

7. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than the following opacity:
 - a. Stack emissions - seven percent [40 CFR 60.672(a)]
 - b. All transfer points and fugitive emission points - ten percent [40 CFR 60.672(b)]

8. The heater shall only be fired on propane, with low sulfur (15 ppm) diesel as an emergency backup fuel. This heater shall only be fired on diesel under propane supply curtailment conditions (cost cannot be used to demonstrate curtailment).
[District Rule 1302(B)(1)(a)]

9. The heater shall not emit to the atmosphere in excess of the following limits (for propane/diesel; units are pounds per million Btu of fuel input):

- a. NO_x - 0.14 on propane (0.16 on diesel)
- b. VOC - 0.011 (0.011)
- c. CO - 0.37 (0.39)
- d. SO_x - 0.0012 (0.0017)
- e. PM₁₀ - 0.0066 (0.0080)

[District Rule 1302(B)(1)(a)]

10. The heater shall not be fired with more than 56,800 million Btus per year of fuel, calculated on a rolling twelve month basis.

[District Rule 1302(B)(1)(a)]

11. This equipment shall not process more than 440,000 tons per year, calculated on a rolling twelve month basis.

[District Rule 1302(B)(1)(a)]

12. Within thirty (30) days of achieving maximum fuel/feed firing rate, but not later than 180 days after first firing of fuel in the heater, the o/o shall perform an initial compliance test. This test shall demonstrate that this equipment is capable of operation in compliance with certain emission limits specified above (with propane and under the maximum achievable feed firing rate). This initial test shall include tests for the following:

- a. NO_x in pounds per million Btu
- b. PM₁₀ in pounds per million Btu (filterable and condensable)
- c. Opacity from all applicable emissions points (USEPA Method 9)

[District Rule 1302(B)(1)(a)]

13. 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.

[Rule 107(b), HSC 39607 and 44341-44342, 40 CFR 51, Subpart A]