



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

B000847

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: FEBRUARY 2027

OWNER OF OPERATOR (Co. #102)

Elementis Specialties, Inc.
31763 Mountain View Road
Newberry Springs, CA 92365

EQUIPMENT LOCATION (Fac. #221)

Elementis Specialties - Mt. View Rd
31763 Mountain View Road
Newberry Springs, CA 92365

Description:

SPRAY DRYER SYSTEM consisting of: a spray dryer process equipped with an E. Corporation (Blue Flame Div.) Model 090 burner. The burner fires natural gas and is rated at 15.4 million Btu/hr. Ancillary equipment is included. Note that for rating purposes horsepower has been converted to Btus assuming 2550 Btu per horsepower. This process includes an integral baghouse (BH31202) at the spray dryer exhaust. The integral baghouse is a Micro-Pulse dust collector equipped with 320 4.5" D by 101" L bags totaling 3173 square feet of filter area, and the 60 hp blower generates 13720 cfm of flow (for an effective air to cloth ratio of 4.32:1). Normal differential pressure across the bags is 2 to 10 inches water column as measured by integral manometer. Facility elevation is 1836 feet above sea level.

EQUIPMENT

Capacity	Equipment Description
0	Tank S-12 (wet)
0	Pulsation Snubber
15.4	Combustor (rated 15.4 MMBtu/hr)
0.07	Combustion Blower BL31109 (30 hp)
0.19	Spray Dryer (75 hp)
0.003825	Baghouse Conveyor CN31203 (1.5 hp)
0.15	Main Spray Dryer Fan BL22015 (60 hp)
0.0008415	Baghouse Airlock AL31101 (0.33 hp)

Fee Schedule: 8 (e)

Rating: 15898925 Btu

SIC: 1499

SCC: 30504231

Location/UTM(Km):
529E/3854N

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.

Elementis Specialties, Inc.
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Newberry Springs, CA 92365

By: **COPY**
Brad Poiriez
Executive Director

Capacity	Equipment Description
0.0044625	Bottom Conveyor CN31111 (1.75 hp)
0.01	Elevator BE31110 (5 hp)
0.006375	Vibratory Screen SN31150 (2.5 hp)
0.0019125	Screen Conveyor CN31205 (0.75 hp)
0.02	Vibratory Mill MI31301 (10 hp)
0.006375	Vibratory Screen SN 31304 (2.5 hp)
0.003825	Upper Feedback Conveyor CN37121 (1.5 hp)
0.006375	Bottom Feedback Conveyor CN37120 (2.5 hp)
0	Spray Dry Weigh Silo
0.0008415	Weigh Silo Airlock AL31102 (0.33 hp)
0.0051	Weigh Silo Conveyor SN31205 (2 hp)
0.0019125	Vacuum system inlet airlock (.75 HP)
0.0051	Vacuum system lump breaker (2 HP)
0.0019125	Vacuum system discharge airlock (.75 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 1302]

2. This spray dryer shall not be operated without the simultaneous, and proper operation of the integral baghouse.
[District Rules 204 & 1303]

3. The owner/operator shall conduct a minimum program of inspection and maintenance on this equipment. The owner/operator shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. Weekly reading of baghouse pressure drop, date and value;
- b. Monthly baghouse stack observation date and result, using EPA Method 22 (and EPA method 9 if Method 22 detects visible emissions. In lieu of Method 9, owner/operator may cease operations until deficiencies contributing to opacity are corrected.);
- c. Annual bag and bag suspension system inspection date and results;
- d. Date of bag replacements; and,
- e. Date and nature of any system repairs.
- f. Date and amount of each liquid fuel delivery, including supplier's sulfur analysis.

[District Rules 1303]

4. The integral baghouse shall not discharge more than 1.18 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
[District Rules 1303(A) and 404]

5. The integral baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than 7 percent opacity.
[Table 2 of 40 CFR 60, Subpart OOO]

6. The integral baghouse shall be equipped with a device to measure the pressure differential across the bags (manometer).
[District Rule 1303(A)]

7. The owner/operator shall maintain on-site a minimum inventory of replacement bags for the integral dust collector that assures compliance with these conditions.

[District Rule 1303(A)]

8. This facility shall emit less than the following on a calendar year basis;

Oxides of Nitrogen (NO_x) - 24.9 tons,

Volatile Organic Compound (VOC) - 24.9 tons,

Particulate Matter less than 10 microns (PM₁₀) - 14.9 tons, and

Hazardous Air Pollutants (HAP) - 9.9 tons per year for any single HAP and 24.9 tons per year for any combination of HAPs. Compliance shall be demonstrated annually to the District through the submission of a District approved Comprehensive Emission Inventory Report (CEIR) or other District approved equivalent method. The report shall be submitted to the District upon request.

[District Rules 204 and 1303]

9. This equipment shall only be fired on natural gas fuel.

[District Rule 1302]

10. This facility is a Synthetic Minor 80 source (SM-80), therefore, it is a federally reportable facility; all applicable information shall be reported by the MDAQMD to EPA through EPA's ICIS (Integrated Compliance Information System). Information, documents, and records related to this reporting shall be provided to the MDAQMD upon request.

[District Rule 204]

11. 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]