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

B010541

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 #2 DRYING SYSTEM consisting of: A Maxom Crossfire low-NOx burner fired on natural gas rated at 10.9 MMBTU/HR. Facility elevation is 1836 feet above sea level.

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 be operated concurrently, and with the properly functioning air pollution control device operating under valid District Permit C010542.
[District Rules 204 & 1303]

3. Pursuant to Rule 1157(E)(1)(a) Emissions Compliance Testing:
The owner/operator shall demonstrate compliance through emission compliance testing not less than once every 12 months.
[District Rule 1157]

Fee Schedule: 8 (e)	Rating: 12000000 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.
31763 Mountain View Road
Newberry Springs, CA 92365

By: **COPY**
Brad Poiriez
Executive Director

UNOFFICIAL

4. The integral heater portion of this equipment is subject to Rule 1157 Boilers and Process Heaters, and is an "High Annual Heat Input Permit Unit" and as such RACT Standards apply as summarized (Ref MDAQMD Rule 1157(C)(3), therefore this device shall NOT emit:
(i) carbon monoxide in excess of 400 ppmv; and
(ii) NOx in excess of 70 ppmv, and/or 0.084 lbs/MMBtu of heat input.

This device shall only be fired on utility supplied Natural Gas.
[District Rules 1303 and 1157]

5. Pursuant to Rule 1157(E)(1)(b) Procedures:
The owner/operator shall demonstrate compliance through emission compliance testing not less than once every 12 months.

(i) Compliance testing required by this rule shall follow the administrative procedures outlined in the District's Compliance Test Procedural Manual. All emission determinations shall be made as stipulated in the test protocol accepted by the District.

(ii) Emission determinations shall include, at a minimum, one emission compliance test conducted at 90% of the maximum firing rate allowed by the District permit or at normal operating conditions as determined and approved by the APCO.

(iii) No compliance determination shall be established based on data obtained from compliance testing, including integrated sampling methods, during a start-up period or shut-down period.

(iv) All ppmv emission limits specified above are referenced at dry stack-gas conditions and 3.0 percent by volume stack-gas oxygen.

(v) All lbs/MMBtu NOx emission rates shall be calculated as pounds of nitrogen dioxide per MMBtu of heat input.

(vi) All emission concentrations and emission rates shall be based on hourly averages.
[District Rules 1303 and 1157]

6. Pursuant to Rule 1157(F), Test Methods shall be conducted in accord with the following referenced methods:
(1) Compliance with the NOx, carbon monoxide and oxygen requirements of Rule 1157 Section C shall be determined using the following test methods:
(a) Oxides of Nitrogen - EPA Method 7E or ARB Method 100
(b) Carbon Monoxide - EPA Method 10 or ARB Method 100
(c) Stack Gas Oxygen - EPA Method 3 or 3A or ARB Method 100
(d) NOx Emission Rate (Heat Input Basis) - EPA Method 19

(2) HHV determination shall be by one of the following test methods:
(a) ASTM D 2015-85 for solid fuels; or
(b) ASTM D 240-87 or ASTM D 2382-88 for liquid hydrocarbon fuels; or
(c) ASTM D 1826-88, or ASTM D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels; or
(d) Alternatively HHV may be obtained from the Natural Gas supplier per Rule 1157 (E)(2) and kept as part of the facility records.
[District Rules 1303 and 1157]

7. Owner/operator shall perform all tuning in accordance with Rule 1157(I) Tuning Procedure, incorporated herein by reference.
[District Rules 1303 and 1157]

8. This equipment shall be maintained and operated in compliance with Rule 1157. In the event of conflict between these conditions and the rule, the more stringent requirements shall govern.
[District Rules 204 and 1303]

9. This facility shall emit less than the following on a calendar year basis;
Oxides of Nitrogen (NOx) - 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]

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. 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.
[District Rule 204]

12. 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]