



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

B013320

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: JUNE 2025

OWNER OF OPERATOR (Co.#2500)

5E Boron Americas, LLC
9329 Mariposa Rd. Suite # 210
Hesperia, CA 92344

EQUIPMENT LOCATION (Fac.#3893)

5E Boron Americas, LLC
27555 Hector Road
Newberry Springs, CA 92365

Description:

SOLVENT EXTRACTION PROCESS consisting of: A custom-built system using kerosene (diluent) and isooctanol (extractant) to remove borate products from the mined liquid (Pregnant Leach Solution) following separation in the PLS Clarifier. Captured VOCs from this closed system, which holds approximately 22,000 gallons each of kerosene and isooctanol, are transferred to a Mannheim Furnace burner as fuel. The expected annual VOC loss is approximately 10,000 pounds.

CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance 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 Rules 204 and 1303]
2. The owner/operator shall conduct an initial source test of the VOC capture system to determine amount destroyed by the burner, then calculate the loss of VOCs to atmosphere by using a mass balance approach, subtracting the source tested amount of VOCs from the measured loss of kerosene and isooctanol. This test shall be conducted within 60 days of reaching full production rate but shall not exceed 180 days from initial startup.

The owner/operator must submit a source test protocol at least thirty (30) days prior to the scheduled source test date for District review and approval, and the owner/operator must conduct all required tests in accordance with the District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the first day of testing so that an observer may be present. The final source 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 Rules 204, 1302 and 1303]

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|---------------------|-----------------|-----------|---------------|---------------------------------|
| Fee Schedule: 1 (c) | Rating: 480 bhp | SIC: 1479 | SCC: 30500002 | Location/UTM(Km): 552E/3846N |
|---------------------|-----------------|-----------|---------------|---------------------------------|

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.

5E Boron Americas, LLC
9329 Mariposa Rd. Suite # 210
Hesperia, CA 92344

By: **COPY**
Eldon Heaston
Air Pollution Control Officer

3. Emissions from the entire facility shall not exceed the following limits:
- a. Oxides of Nitrogen (NO_x): 24 tons per consecutive twelve month period, measured as NO₂;
 - b. Oxides of Sulfur (SO_x): 24 tons per consecutive twelve month period;
 - c. Volatile Organic Compounds (VOC): 24 tons per consecutive twelve month period;
 - d. Carbon Monoxide (CO): 95 tons per consecutive twelve month period;
 - e. Hydrogen Sulfide (H₂S): 9.5 tons per consecutive twelve month period;
 - f. Lead (Pb): 0.5 tons per consecutive twelve month period;
 - g. Particulate Matter 10 microns and less (PM₁₀): 14.5 tons per consecutive twelve month period;
 - h. Any single Hazardous Air Pollutant (HAP): 9.5 tons per consecutive twelve month period; and
 - i. All HAPs combined: 24 tons per consecutive twelve month period.

Compliance shall be demonstrated to the District through the submission of a District approved Comprehensive Emission Inventory Report (CEI) or other equivalent and District approved method.
[District Rules 1302 and 1320]

4. The owner/operator shall maintain a current, on-site (at a central location if necessary) operations log for this equipment for three (3) years, which shall be provided to District, State or Federal personnel upon request. This log shall include, as a minimum, the following information:
- a. Monthly VOC loss based on the monthly solvent make-up rate in accordance with Condition #2, in pounds;
 - b. Rolling consecutive twelve-month VOC loss based on the monthly solvent make-up rate in accordance with Condition #2, in pounds;
 - c. Monthly solvent make-up;
 - d. Rolling consecutive twelve-month solvent make-up; and
 - e. Results of all tests, inspections, repairs, and maintenance actions.

[District Rule 1302]

Note: The facility shall use an estimated value of 0.96 lbs VOC/HCl per day until the results of the source test required by Condition #2 are available. For CEI purposes, the estimated value shall be replaced by the actual values.

5. 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]