



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

RENEWAL

B013319

Renewal 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:

PLS CLARIFIER consisting of: A custom built system used to remove insoluble impurities from the Pregnant Leach Solution (PLS) pumped from the wells. Maximum throughput is approximately 1,060 tons of PLS per hour.

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]

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 influent and the effluents of the clarifier for HCl to determine the loss to atmosphere by using a mass balance approach. If the results indicate a loss of one pound or more per day of HCl to the atmosphere, then the clarifier shall be covered. This test shall be conducted within 60 days of reaching full production rate but no more than 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

Fee Schedule: 1 (b) Rating: 50bhp SIC: 1479 SCC: 2305000 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**
Brad Poiriez
Air Pollution Control Officer

compliance/certification test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov
[District Rules 204, 1302 and 1303]

2.This equipment shall not be operated unless it is vented to the properly functioning HCL loadout scrubber under valid district permit C015247.

[District Rule 1320]

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]

3.The owner/operator shall inspect the clarifier for aqueous HCl leaks on a weekly basis. A leak shall be defined as more than one drop per minute of liquid capable of turning a wetted piece of pH test paper to a color indicating a pH of 1 or less. All leak inspections shall be recorded and all leaks shall be repaired within one week of discovery.

[District Rules 1302 and 1320]

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[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 volume of PLS introduced into the clarifier, in lbs;
- b. Rolling consecutive twelve-month volume of PLS introduced into the clarifier, in lbs;
- c. Monthly HCl emissions as calculated based on the the most recent approved source test of the control device C015247, in pounds;
- d. Rolling consecutive twelve-month HCl and VOC loss as calculated based on the the most recent approved source test of the control device C015247, in pounds; and
- e. Results of all tests, inspections, repairs, and maintenance actions.

[District Rule 1302]

5.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 volume of PLS introduced into the clarifier, in lbs;
- b. Rolling consecutive twelve-month volume of PLS introduced into the clarifier, in lbs;
- c. Monthly HCl loss as calculated from the initial source test conducted in accordance with Condition #2, in pounds;
- d. Rolling consecutive twelve-month HCl and VOC loss as calculated from the latest source test conducted in accordance with Condition #2, in pounds; 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 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.The owner/operator must contact the MDAQMD PRIOR to adding any new equipment or modifying any existing equipment which requires submission of a MDAQMD permit application and may require a Health Risk Assessment.
[District Rule 1320]

6.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]

6.This equipment may not be operated within 500 meters (1640 feet) of any receptor. Such operation will require the submittal of an application for a revised permit to operate and may require a Health Risk Assessment.
[District Rule 1320]

7.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;
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- i. All HAPs combined: 24 tons per consecutive twelve month period.

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[District Rules 1302 and 1320]

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[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]