



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

AUTHORITY TO CONSTRUCT

B013319

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: JUNE 2026

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.

EQUIPMENT

Capacity	Equipment Description
14.4	09-TK-02 Tank, 35% HCl, 14381 gallon capacity
7.4	01-TK-01 Tank, 5% HCl Mine Water Injection, 7410 gallon capacity
8.3	02-TK-01 Tank, PLS, 8290 gallon capacity
9.2	02-TK-02 Tank, Blend #1, 9228 gallon capacity
9.2	02-TK-04 Tanks, Blend #2, 9228 gallon capacity
8	02-TH-01 Tank, Solids Settler, 8030 gallon capacity
4	02-TK-03 Tank, PLS Backflush, 4000 gallon capacity
0	09-PM-13 Pump, HCL 1.5 hp
0	09-PM-15 Pump, PLS Scrubber 0.75 hp
0	01-FN-01 Motor, PLS Scrubber Fan 3 hp
0	01-PM-01 Pump, Injection 10 hp
0	02-PM-06 Pump, Blend Tank #2 5 hp
0	02-PM-04 Pump, Blend Tank #1 5 hp

Fee Schedule: 5 (b)

Rating: 60567 gallons

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
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Hesperia, CA 92344

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

Capacity	Equipment Description
0	02-PM-01 Pump, PLS tank 7.5 hp
0	02-PM-05 Pump, PLS Settler 3 hp

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. 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. 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]

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 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 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. 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 be less than the following limits:
 a. Oxides of Nitrogen (NOx): 20 tons per consecutive twelve month period, measured as NO2;
 b. Oxides of Sulfur (SOx): 80 tons per consecutive twelve month period;
 c. Volatile Organic Compounds (VOC): 20 tons per consecutive twelve month period;
 d. Carbon Monoxide (CO): 80 tons per consecutive twelve month period;
 e. Particulate Matter 10 microns and less (PM10): 12 tons per consecutive twelve month period;
 f. Any single Hazardous Air Pollutant (HAP): 8 tons per consecutive twelve month period; and
 g. All HAPs combined: 20 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]

8. 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), Health & Safety Code 39607 & 44341-44342, 17 CCR 93400 et seq., and 40 CFR 51, Subpart A]