



# 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

B015248

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:

BORIC ACID PROCESS LINE consisting of: A series of tanks utilizing heat and HCl to precipitate boric acid.

#### EQUIPMENT

Capacity	Equipment Description
7.5	02-FL-01 Pump, PLS Backwash 02PM02 7.5 HP
7.5	11-PM-01 Pump, BA Feed 7.5 hp
2	11-AG-01 Agitator, Feed Tank 2 hp
0	11-TK-01 Tank, BA Feed 22520 gallon capacity
0	11-TK-02 Tank, BA Crystallizer 8300 gallon capacity
0	11-TK-03 Tank, BA Distillate 221 gallon capacity
7.5	11-PM-02 Pump, Crystallizer Condensate 7.5 hp
5	11-PM-03 Pump, BA Distillate 5 hp
100	11-PM-04 Pump, Crystallizer Recirculation 100 hp
5	11-PM-05 Pump, Crystallizer Slurry 5 hp
3	11-PM-06 Pump, Crystallizer Vacuum 3 hp
0	11-TK-07 Tank, Filtrate Receiver 700 gallon capacity
0	11-TK-08 Tank, Recycled Water 9000 gallon capacity
0.33	11-PM-10 Pump, Vacuum Recirculation 0.33 hp

Fee Schedule: 1 (c)

Rating: 335.08 bhp

SIC: 1479

SCC: 30111301

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

Capacity	Equipment Description
75	11-PM-13 Pump, BA Vacuum Belt Filter 75 hp
0	04-TK-01 Tank, BA Purge 8025 gallon capacity
5	04-AG-01 Agitator, BA Purge Tank 5 hp
15	04-PM-01 Pump, BA Purge Circulating 15 hp
2	04-PM-02 Pump, Rework 2 hp
2	05-AG-05 Agitator, Rework Tank 2 hp
26	09-SC-02A Motor, Rework Unloader 26 hp
0	05-TK-09 Tank, Rework 553 gallon capacity
1	05-PM-08 Pump, Mine Water Surge 1 hp
2	05-AG-09 Agitator, Mine Water Surge Tank 2 hp
0	05-TK-10 Tank, Mine Water Surge 18260 gallon capacity
0	05-TK-14 Tank, BA Wash Water 395 gallon capacity
10	05-PM-15 Pump, BA Wash Water 10 hp
10	06-SC-01 Screw, BA Wet Cake 10 hp
10	06-SC-02 Screw, BA Conveyor 10 hp
10	06-SC-04 Screw, Horizontal 10 hp
5	06-BL-01 Dryer, Inlet Fan 5 hp
7.5	06-FN-01 Dryer, Exhaust Fan 7.5 hp
0.75	06-FN-02 Dryer, Turbo Fan 0.75 hp
0.5	06-TD-01 Dryer, Tray Drive 0.5 hp
7.5	06-HS-0630 Dryer, Turbo Discharge Airlock 7.5 hp
7.5	06-SF-01 Dryer, Product Sifter 7.5 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 Rule 1302]
  
2. This equipment shall not be operated unless it is vented to the properly functioning Gypsum scrubber under valid district permit C015246.  
[District Rule 1320]
  
3. 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]
  
4. 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]
  
5. 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 NO<sub>2</sub>;
  - 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 (PM<sub>10</sub>): 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]

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