



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

B013322

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 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:

BORIC ACID DRYER #2 consisting of: A 3.5 MMBtu/hour natural gas fueled dryer manufactured by Wyssmont, Inc., model number and serial number TBD. This dryer can process a maximum of 12 tons of Boric Acid per hour and the product inlet and outlet are completely enclosed to control PM10. Exhaust gas is vented through the baghouse described in District Permit C013342 with a 40 ft high by 24 inch diameter stack at a temperature of approximately 250 degrees Fahrenheit.

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 is a low annual heat input unit as defined in District Rule 1157(B) and therefore must meet one of the following:

- (i) be operated in a manner that maintains stack-gas oxygen (O₂) concentrations at less than or equal to 3.0 percent by volume on a dry basis; or
- (ii) be operated with a stack-gas oxygen trim system set at 3.00±0.15 percent oxygen by volume on a dry basis; or
- (iii) be tuned at least annually in accordance with the procedure described in Section (I) of District Rule 1157, a modification of the tuning procedure described in Section (I) of District Rule 1157 as approved by the APCO, CARB and USEPA, or the permit unit manufacturer's specified tune-up procedure; or
- (iv) be operated in compliance with the applicable emission levels specified in District Rule 1157(C)(3)(a).

The facility shall notify the District of their selected method of compliance prior to initial startup of this unit.

Fee Schedule: 2 (c) Rating: 3500000Btu SIC: 1479 SCC: 30590003 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

[District Rule 1157]

3.The owner/operator must conduct an initial performance test (source test) for NOx, CO, and PM10 within 60 days of achieving full production rate, but in no case later than 180 days after 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, 1157, and 1320]

Note: In lieu of conducting the above initial source test, the District will accept manufacturer's certified testing results for the particular make, model, and Heat Input Rating of this installed unit. The manufacturer's certified test results must be formally submitted to and accepted by the District prior to the initial startup of this dryer.

4.Emissions from this dryer shall not exceed the following limits:

- a. Oxides of Nitrogen (NOx): 9 ppmvd, measured as NO2 at 3% O2;
- b. Carbon Monoxide (CO): 50 ppmvd, measured at 3% O2; and
- c. Particulate Matter 10 microns and less (PM10): No more than 0.0563 gr/dscf.

All measurements shall be taken from the exhaust stack of the baghouse described in District Permit C013342. Meeting the above emission limits satisfies the emission limits of District Rule 1157(C)(4)(a).

[District Rules 1302 and 1320]

5.This equipment must be operated concurrently with the properly functioning baghouse described in District Permit C013342.

[District Rule 1320]

6.Emissions from the entire facility shall not exceed the following limits:

- a. Oxides of Nitrogen (NOx): 24 tons per consecutive twelve month period, measured as NO2;
- b. Oxides of Sulfur (SOx): 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]

7.The owner/operator shall maintain a current, on-site (at a central location if necessary) operations log for this equipment for five (5) 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 fuel usage, in Standard Cubic Feet;
- b. Rolling consecutive twelve-month fuel usage, in Standard Cubic Feet; and
- c. Results of all tests, inspections, repairs, and maintenance actions.

[District Rule 1302]

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), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]