



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

B015244

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:

DIESEL IC ENGINE, PORTABLE GENERATOR consisting of: USEPA Family Name CSZXL03.0UTB

Onelsuzu, Diesel fired internal combustion engine Model No. Bu-4JJ1T and Serial No. 146948, Turbo Charged, Direct Injected, Electronic Control Module, Exhaust Gas Recirculation, Exhaust Gas Recirculation, producing 68 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 2.6 gal/hr. This equipment powers a MQ Power Generator Model No. DCA-45SSIU4 and Serial No. 7206033, rated at 36 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	1.04	gm/bhp-hr
NOx	2.13	gm/bhp-hr
PM10	0.17	gm/bhp-hr
PM2.5	0.17	gm/bhp-hr
SOx	0.01	gm/bhp-hr
VOC	0.11	gm/bhp-hr

CONDITIONS:

1. This certified Interim Tier 4 compression-ignited internal combustion engine (engine) 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 air contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and

Fee Schedule: 1 (b) Rating: 68 bhp SIC: 1479 SCC: 20100102 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**
Brad Poiriez
Air Pollution Control Officer

specifications submitted with the application for this permit.
[District Rule 204]

2.This engine and its associated equipment cannot be operated at the same footprint (spot) for more than 365 consecutive days. (This system must be moved within this facility or moved to another facility annually).
[Title 17 CCR 93116.4(b)(2)(A)]

3.This engine 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.This engine shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) per CARB Diesel or equivalent requirements.
[Title 17 CCR 93116.3(a)]

5.A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[Title 17 CCR 93116.4(b)(2)(A)]

6.The owner/operator must maintain a operations log for this unit current and on-site (or at a central location) for a minimum of two (2) years, and this log must be provided to District, State and Federal personnel upon request. The log must include, at a minimum, the information specified below:
a. Date and location of each use (in Lat xx.xxxxx/Lon yyy.yyyyy format) and duration of each use (in hours);
b. Distance (in feet or meters) from facility's outer fence-line;
c. Annual hours operated (summarized monthly);
d. Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log);
[District Rules 1302 and Title 17 CCR 93116.4]

7.This portable diesel-fueled engine is subject to the Airborne Toxic Control Measure For Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (Title 17 CCR 93116 - Portable ATCM). In the event of conflict between these conditions and the requirements of the Portable ATCM, the more stringent requirements shall govern.

8.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]

9.Pilot plant equipment permitted under B015240, B015241, B015242, B015243, B015244, B015248, B015245 and B015249 shall not be operated with equipment under permits B013333, B013334, B013335, B013336, B013337, B013338, B013344, B013345, B013346, B013347, B014763, B013320, B013321, B013323, B013325, B013326, B013327, B013328, B013329, B013330, B013331 and T013324 but may be operated with B013319 and B013318.
[District Rules 1303 and 1320]

10.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]

11.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]