



# 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

B014793

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: MAY 2026**

### OWNER OF OPERATOR (Co.#2929)

Grow Organics 7, Inc.  
2816 Honolulu Ave #554  
Verdugo City, CA 91406

### EQUIPMENT LOCATION (Fac.#4354)

Grow Organic 7  
2817 Lenwood Road  
Barstow, CA 92311

### Description:

CAPSTONE C1000S MICROTURBINE consisting of: A Capstone MicroTurbine C1000S Signature Series microturbine package consisting of five (5) C200 natural gas fired turbine engines, each with a maximum heat input of 2.28 MMBTU/hr and rated at 0.2 MW of electrical output. The combined maximum heat input of this C1000S unit is 11.4 MMBTU/hr, with a combined 1.0 MW electrical output rating.

One Capstone, NG fired internal combustion engine Model No. C200 (5 engines) and Serial No. 9773A, 9773B, 9773C, 9773D, 9773E, producing 1341 bhp with cylinders at rpm while consuming a maximum of 11.4 MMBtu/hr. This equipment powers a Capstone Generator Model No. C1000S and Serial No. TBD, rated at 1 MW.

### EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.37	gm/bhp-hr
NOx	0.14	gm/bhp-hr
PM10	0.0066	lbs/MMBtu
PM2.5	0.0066	lbs/MMBtu
SOx	0.00057	lbs/MMBtu
VOC	0.034	gm/bhp-hr

### CONDITIONS:

Fee Schedule: 2 (e)

Rating: 11400000 Btu

SIC: 2833

SCC: 20100201

Location/UTM(Km):  
492E/3586N

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.

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

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(s) for this permit.

[District Rule 1302(C)(2)(a)]

2. This equipment is limited to using only PUC-Regulated pipeline quality natural gas for fuel.

[District Rule 431]

3. Fuel consumption shall be monitored using fuel meter or calculated based on equipment annual average operation, and reported in standard cubic feet.

[District Rules 431, 1159 and 1302]

4. These units shall meet the following emission limits (corrected to 15% oxygen and on a dry basis):

a. NO<sub>x</sub> less than 42 ppmvd; and

b. CO less than 250 ppmvd;

Although periodic source testing is not currently required, the District may require such testing to verify the above emission limits at their discretion. Until such time source testing is required, the owner/operator shall show compliance with these emission limits by providing expected emissions data from the turbine manufacturer.

[District Rules 1159 and 1303]

5. The owner/operator shall maintain a combined operations log and Emission Control Plan (ECP) for this equipment on-site and current for a minimum of five (5) years, and log shall be provided to District personnel upon request. The operations log/Emission Control Plan shall include, at a minimum, the following information:

a. Total operation time (hours per day, hours per month and an annual total);

b. Total fuel consumed on an annual basis (reported in standard cubic feet);

c. Manufacturer's specification sheets, showing the concentration and mass rate of emissions of oxides of nitrogen from this unit;

d. Type and quantity of the fuel used; and,

e. Records of all maintenance and repair actions performed on this equipment by nature and date.

Please note: This unit is considered a non-exempt unit, pursuant to District Rule 1159, and therefore, is not required to record the nature of operation of the unit.

[District Rules 1159 and 1302(C)(2)(a)]

6. A facility wide Comprehensive Emission Inventory (CEI) Plan and Report 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]