



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

PERMIT TO OPERATE

B011594

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

EXPIRES LAST DAY OF: SEPTEMBER 2026

OWNER OF OPERATOR (Co. #1133)

GTP Towers I, LLC c/o American Tower Corporation
10 Presidential Way
Woburn, MA 01801

EQUIPMENT LOCATION (Fac. #3384)

American Tower - Fenner Springs
11949 Fenner Rd.
Needles, CA 92363

Description:

PROPANE IC ENGINE, GENERATOR (FENNER SPRINGS #2: CA-5180) consisting of: Year of Mfg. 2011, USEPA Engine Family BPWRB8.10TNP, Date installed 9/11/12, USEPA Certificate of Conformity BPWRB8.10TNP-006.

One Power Solutions International, Propane fired internal combustion engine Model No. D081T1C and Serial No. EEPOG200711, Turbo Charged, Three-Way Catalyst (also NSCR), Air-To-Fuel Ratio Controller, producing 237 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 5.6 gal/hr. This equipment powers a Bluestar Generator Model No. NG150-01 and Serial No. L-3183-2 2012, rated at 150 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	2.0	gm/bhp-hr
NOx	1.0	gm/bhp-hr
PM10	0.03	lbs/hr
SOx	0.002	lbs/hr
VOC	0.7	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (c)

Rating: 237 bhp

SIC: 4813

SCC: 20301001

Location/UTM(Km):
678E/3855N

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.

GTP Towers I, LLC c/o American Tower Corporation
Attn: HazMat Compliance Department

Woburn, MA 01801

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

1. This engine, certified in accordance with 40 CFR Part 1048, and its associated control device (Three-Way Catalyst) and air/fuel ratio controller 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.
[NSPS for Stationary Spark Ignition ICE, 40 CFR 60 Subpart JJJJ - sections 60.4231(c), 60.4233(c), 60.4236(c), (d), and 60.4237]

2. This unit shall be fired on Liquefied Petroleum Gas (LPG) fuel with a Sulfur content of less than 185 ppmw.
Note: Use of Commercial Grade Liquefied Petroleum Gas satisfies this requirement.
[40 CFR 60.4243, District Rule 431]

3. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[40 CFR 60.4237, District Rules 1160(E)(1)(b)(i)b and 1302(C)(2)(a)]

4. The o/o shall maintain an operations log for this unit, which, at a minimum, contains the information specified below. This log shall be maintained current and on-site (or at a central location) for a minimum of five (5) years and shall be provided to District, State and Federal personnel upon request: a. Monthly usage and annual operation in terms of fuel consumption (in gallons) or total hours; b. Initial and periodic differential voltage readings across the catalytic converter (see Condition #8), and c. Records of all maintenance and repair actions performed on the engine, the AFRC, and the catalytic converter.
[NSPS for Stationary Spark Ignition ICE, 40 CFR Part 60 Subpart JJJJ - sections 60.4243 (a)(1) and 60.4245(a)(2)]

5. The Air-to-Fuel Ratio Controller shall be used in conjunction with the control device, and shall be maintained and operated appropriately to ensure proper operation of the engine and control device to minimize emissions at all times.
[40 CFR 60.4243]

6. The catalytic converter shall be maintained and operated appropriately to ensure proper operation of the unit, including documentation of any engine malfunctions (and corrective actions taken) indicated by the engine control module.
[40 CFR 60.4243, District Rule 1302]

7. In the event that the Three-Way Catalytic Converter is replaced, the new (replacement) Catalytic Converter must be of the same Manufacturer and model designation and it must be installed by Factory Certified personnel to avoid follow-on source testing.

If the Manufacturer or the Model designation of the new (replacement) catalytic converter is not identical to the original catalytic converter or if the unit is not installed by Factory Certified personnel, then the engine shall be source tested in accordance with the procedures outlined in 40 CFR 60.4244 within 90 days after the catalytic converter replacement. The source test results must verify that the engine meets the following maximum emission limits (measured at standard conditions):

- a. NOx: 1.0 g/bhp-hr
- b. CO: 2.0 g/bhp-hr
- c. VOC: 0.7 g/bhp-hr

[40 CFR 60.4233 (e), District Rules 1302, 1303, and 1320]

8. The voltage output from the oxygen sensors across the catalytic converter must be monitored and recorded within 100 hours of startup and at intervals not to exceed 1,000 hours since the most recent previous reading. If the engine runtime exceeds the 1,000 hour interval, it must be shut down until a differential voltage reading is properly recorded.
[District Rules 204 and 1302]

9. This engine shall comply with all applicable rules and regulations including 40 CFR 60, Subpart JJJJ - New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines and District Rule 1160 - Internal Combustion Engines. In the event of conflict, the more stringent emission levels shall govern.
[District Rule 1302]

10. 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]