



## 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

B014228

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: JANUARY 2026**

#### OWNER OF OPERATOR (Co.#2027)

Hospital of Barstow, Inc.  
820 E. Mountain View Street  
Barstow, CA 92311

#### EQUIPMENT LOCATION (Fac.#3336)

Barstow Community Hospital (E. Mtn View)  
820 E. Mountain View Street  
Barstow, CA 92311

#### Description:

NATURAL GAS IC ENGINE, COGEN consisting of: Year of Manufacture 2021; 4-Stroke Rich Burn; Engine is not EPA certified; Stack Height 32' 8"; Stack Diameter 0.66 feet; Exhaust Flow Rate 466 ACFM; Exhaust Temperature 905 Degrees F. Engine exhausts through a DCL MINE-X Industrial RC Element 3-Way Catalyst. Engine emission rate details obtained from Manufacturer Specifications and AP42 and are subject to verification through compliance testing. Engine powers a Leroy Somer Generator; Model LSA 46.3 L11/4p; Serial Number TBD. Equipment elevation is 2302 feet above sea level.

One 2G, NG fired internal combustion engine Model No. Aura 408 and Serial No. TBD, Direct Injected, Electronic Control Module, Inter Cooled, Turbo Charged, producing 392 bhp with 8 cylinders at 1800 rpm while consuming a maximum of 2.576 MMBtu/hr. This equipment powers a Leroy Somer Generator Model No. LSA 46.3 L11/4p and Serial No. TBD, rated at 1800 rpm.

#### EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	1.725	lbs/hr
NOx	0.862	lbs/hr
PM10	0.017	gm/bhp-hr
PM2.5	0.017	gm/bhp-hr
SOx	0.001	gm/bhp-hr
VOC	0.604	gm/bhp-hr

#### CONDITIONS:

Fee Schedule: 1 (c)      Rating: 392 bhp      SIC: 8062      SCC: 20100201      Location/UTM(Km): 498E/3862N

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**  
**Brad Poiriez**  
Air Pollution Control Officer

1.Owner/operator must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

[Derived from 60.4243(b)(2)(i)]

2.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, District Rule 1160 - Internal Combustion Engines, and these permit conditions. In the event of conflict, the more stringent requirements shall govern.

3.This unit shall only be fired on natural gas fuel.

[District Rule 431 and 1302]

4.A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

[District Rule 1160(E)(1)(b)(i)(b)]

5.An 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.

[District Rule 1160(E)(1)(b)(i)(c); 40 CFR 60.4243(g)]

6.The owner/operator shall maintain an operations and inspection log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the following information:

- a. Monthly fuel usage in cubic feet or therms;
- b. Monthly and rolling twelve month operation in terms of total hours (from the engine hour timer);
- c. Engine and emission control maintenance plan as required by 40 CFR 60 Subpart JJJJ;
- d. Records of all maintenance and repair actions performed on the engine, the AFRC, and the catalytic converter, including date and description;
- e. Initial and all subsequent Performance Test results; and,
- f. Equipment operating location in latitude and longitude.

[District Rule 1160(E)(1)(a)(i); 40 CFR 60.4243(b)(2)(i) and 60.4245(a)(2)]

7.The owner/operator must comply with the following emission standards, as referenced below, over the entire life of the engine. Compliance must be determined in accordance with the performance test methods and procedures specified in 40 CFR 60.4244 and Table 1 to Subpart JJJJ.

Maximum Allowed Emission Standards:

- a. NO<sub>x</sub>: 50 ppmvd at 15% O<sub>2</sub>;
- b. CO: 2.0 g/bhp-hr, or 270 ppmvd at 15% O<sub>2</sub>, and
- c. VOC 0.7 g/bhp-hr, or 60 ppmvd at 15% O<sub>2</sub>

Note: Emission standards are from Table 1 to Subpart JJJJ of Part 60 except NO<sub>x</sub> which is limited to 50 ppmvd per District Rule 1160 for Rich Burn Spark-Ignited Internal Combustion Engines

[District Rule 1160(C)(a)(i); 40 CFR Part 60.4233(e)]

8.The owner/operator must conduct an initial performance test within 180 days of engine startup, and conduct subsequent performance testing every 12 months, thereafter to demonstrate compliance with condition 7. If a compliance test demonstrates compliance with condition 9, the testing frequency may be extended to once every 24 months. Failure of a compliance test, or failure to complete the test within the required frequency, resets the compliance test frequency to once every 12 months.

[District Rule 1160(E)(1)(b)(ii) and 1160(E)(1)(d); 40 CFR 60.4243(b)(2)(i)]

9.The owner/operator must provide a written performance test plan or protocol at least thirty days prior to the test date. The owner/operator must conduct all required compliance/performance tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/performance test date so that an observer may be present. The final compliance/performance test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/performance test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).

10. Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference, see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results from sections 8.4 and 11.1.1.4; for Method 320, report results from sections 8.6.2, 9.0, and 13.0; and for ASTM D6348-03 report results of all QA/QC procedures in Annexes 1-7. [40 CFR 60.4245(d)]

11. The owner/operator shall Submit to the APCO for written approval an Inspection & Maintenance plan (I&M Plan). Upon written approval by the APCO, the O/o shall implement the I&M plan as approved. The I&M Plan shall institute an inspection and maintenance plan identifying at a minimum;

- a. Identification of engine and control equipment operating parameters necessary to maintain pollutant concentrations within these permit limits.
- b. Procedures for alerting the operator to emission control malfunctions. Engine control systems, such as air-to-fuel ratio controllers, shall have a malfunction indicator light and audible alarm.
- c. Procedures for responding to, diagnosing and correcting breakdowns, faults, malfunctions, alarms, diagnostic emission checks finding emissions in excess of permit limits, and parameters out-of-range.
- d. Procedures and schedules for preventive and corrective maintenance.

[Composite Condition, Contains elements of District Rules 1160 and 40 CFR 60 Subpart JJJJ]

12. The owner or operator of this Internal Combustion Engine shall Conduct inspections, whichever is the more frequent of, at least once every calendar quarter; or, after every 2,000 hours of engine operation.

a. An inspection includes any testing, maintenance, and/or other procedures that ensure this Internal Combustion engine is operated in strict accordance with the manufacturer's specifications and in continual compliance with the provisions of this rule. Each inspection shall include the following:

1. Date.
2. Records of testing, as applicable.
3. Records of maintenance.

[District Rule 1160 (E)(1)(a)]

13. The owner/operator shall Install, operate, and maintain in calibration, the following monitoring equipment, as approved by the APCO:

- a. Continuous measurement and recording of Emissions Control System Operating Parameters;
- b. Continuous measurement and recording of elapsed time of operation; and,
- c. An Enhanced Emissions Monitoring Device.

[District Rule 1160 (E)(1)(b)]

14. 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]