



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

B013584

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: AUGUST 2024

OWNER OF OPERATOR (Co.#2462)

Pacific Auto Recycling Center
225 West Avenue H
Lancaster, CA 93534

EQUIPMENT LOCATION (Fac.#3858)

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225 West Avenue H
Lancaster, CA 93534

Description:

NATURAL GAS IC ENGINE, GENERATOR consisting of: This engine provides power to a scrap metal shredding circuit and is equipped with a Clean Emissions Products, Inc. NSCR catalyst Model FL-26-10ASA-3W.

One Waukesha, NG fired internal combustion engine Model No. L5794LT and Serial No. TBD, Turbo Charged, Inter Cooled, Three-Way Catalyst (also NSCR), Electronic Control Module, producing 1515 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 0.0132 MMscf/hr. This equipment powers a Waukesha Generator Model No. 794 and Serial No. TBD, rated at 1 MW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.054	gm/bhp-hr
NOx	0.120	gm/bhp-hr
PM10	0.033	gm/bhp-hr
SOx	0.007	gm/bhp-hr
VOC	0.035	gm/bhp-hr

CONDITIONS:

1. This stationary, spark-ignited, internal combustion engine 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

Fee Schedule: EF (N/A)

Rating: 1515 Engine

SIC: 5015

SCC: 20100202

Location/UTM(Km):
395E/3840N

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

shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, subpart 60.4243; District Rule 1302]

2. This engine is subject to the requirements of the New Source Performance Standards (NSPS) for Stationary Spark Ignition IC Engines (40 CFR 60, Subpart JJJJ).

3. This unit shall only be fired on PUC regulated Pipeline quality natural gas fuel?
[40 CFR 60.4243, District Rules 431.1 and 1303]

4. 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 Rule 1110.2(E)]

5. This engine shall not operate for more than 2500 hours in any consecutive 12 month period.
[District Rules 1302, 1303, and 1401]

6. The owner/operator shall maintain an operations 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 information specified below:

- a. Monthly fuel usage in cubic feet or therms;
 - b. Monthly, calendar quarterly, and calendar year operation in terms of total hours;
 - c. Initial and periodic Differential Pressure readings across the catalytic converter (see Condition #9);
 - d. Records of all maintenance and repair actions performed on the engine, the AFRC, and the catalytic converter;? ?
 - e. Results of all engine source tests as required in conditions #8, #10 and #11; and
- [40 CFR 60.4245, 40 CFR 1048, District Rule 1110.2]

7. The catalytic converter shall be cleaned in accordance with the manufacturer's written procedures when the pressure differential across the converter exceeds two (2) inches water column above its initial reading at startup.
[40 CFR 60.4243, District Rule 1303]

8. 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 manufacturer 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. NO_x + NMHC: 0.06 g/bhp-hr; and?
 - b. CO: 0.08 g/bhp-hr
- [40 CFR 60.4243, 40 CFR 60.4244, District Rules 1110.2, 1303 and 1401]

9. The differential pressure across the catalytic converter must be measured and recorded at intervals not to exceed 1,000 hours since the most recent previous reading. If the engine run time exceeds the 1,000 hour interval, it must be shut down until a differential pressure reading is properly taken and recorded.
[District Rules 204 and 1303]?

10. An initial source test is to be performed within 60 days of start up which demonstrates compliance with the? following emission limits of District Rule 1110.2:

- a. NO_x: 36 ppmvd corrected to 15% O₂;
- b. VOC: 250 ppmvd corrected to 15% O₂; and
- c. CO: 2000 ppmvd corrected to 15% O₂.

Test? report shall be submitted to the District not later than 45 days after it is conducted.

[District Rule 1110.2]

11. This engine must be source tested for NO_x, VOC and CO at least once in every 12 month period to verify compliance with the following emission limits of District Rule 1110.2 as specified in condition 10. Test shall be conducted and report? submitted to the District not less than 90 days prior to the engine permit renewal date.?

[District Rule 1110.2(F)]

12. The owner/operator shall install, operate and maintain a NO_x Predictive Emissions Monitoring System (PEMS) as approved by the APCO as a NO_x CEMS equivalent to demonstrate compliance within the emission limits specified in condition 10. [District Rule 1110.2(D)]

13. The NO_x PEMS shall monitor:

a. fuel consumption

b. catalyst inlet temperature, acceptable range: TBD

c. catalyst inlet oxygen, acceptable range: TBD

[District Rule 1401]

14. This engine and the engine permitted under B013573 shall not be operated concurrently with any other internal combustion engines over 50 bhp located at this facility. This requirement does not apply to internal combustion engines powering on or off road mobile sources.

[District Rule 1401]

15. 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]