



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

B014857

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: OCTOBER 2024

OWNER OF OPERATOR (Co.#2986)

Envent Corporation
3220 East 29th Street
Long Beach, CA 90806

EQUIPMENT LOCATION (Fac.#4411)

Envent Corporation
District Wide
MDAQMD, CA 92392

Description:

NATURAL GAS IC ENGINE, PORTABLE AIR COMPRESSOR consisting of: Year of Manufacture 2022; 4-Stroke Rich Burn; Engine is not EPA certified; Stack Height 12.92 Feet; Stack Diameter 8.33 inches; Engine exhausts through an Maxim Model PE2-430 N-SCR three way catalyst. Engine emission rate details obtained from Manufacturer Specifications and AP-42 and are subject to verification through compliance testing.

One Caterpillar, NG fired internal combustion engine Model No. CG137-8 and Serial No. ST800449, Turbo Charged, After Cooled, Three-Way Catalyst (also NSCR), Air-To-Fuel Ratio Controller, producing 400 bhp with 8 cylinders at 1800 rpm while consuming a maximum of 3284 scf/hr. This equipment powers a TBD Compressor Model No. TBD and Serial No. TBD, rated at TBD.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.05	gm/bhp-hr
NOx	0.05	gm/bhp-hr
PM10	0.04	gm/bhp-hr
PM2.5	0.04	gm/bhp-hr
SOx	0.00	gm/bhp-hr
VOC	0.22	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (c) Rating: 400 bhp SIC: 1799 SCC: 20100202 Location/UTM(Km): 477E/3818N

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.

Envent Corporation
1310 Underwood Road
La Porte, TX 77571

By: **COPY**
Brad Poiriez
Air Pollution Control Officer

1. This equipment shall be installed, operated and maintained in strict accord 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.

[District Rule 1302]

2. This unit shall only be fired on PUC regulated Pipeline quality natural gas fuel.

[District Rule 431]

3. Owner/operator shall not discharge into the atmosphere a visible emission with a shade as dark or darker than Ringelmann 1, or with an opacity of 20% or greater, for a period aggregating more than three minutes in any one hour.

[District Rule 401]

4. Emissions shall not exceed the following:

a. NOx: 0.15 g/bhp-hr (BACT)

b. CO 0.05 g/bhp-hr (Rule 1201(S))

[District Rules 1201 & 1303 BACT]

5. This engine shall not be operated unless all of the following engine systems are properly functioning:

a. Air-to-Fuel Ratio Controller (AFRC)

b. Oxygen Sensor

c. Non-Selective Catalytic Reduction

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician or as allowed with prior APCO written permission.

[District Rule 1303]

6. Source testing for NOx and CO to demonstrate compliance with emission limits specified in condition #4 shall be conducted within 60 days of initial start-up, and every 12 months thereafter.

The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification 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/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

[District Rule 204]

7. In the event that the NSCR is replaced, the replacement must be of the same manufacturer and model and it must be installed according to manufacturer's specifications to avoid follow-on source testing.

If the manufacturer or the model designation of the replacement control is not identical to the original or if the unit is not installed according to manufacturer's specification, then the engine shall be source tested within 90 days after startup of the new control device. The source test results must verify that the engine meets the following maximum emission limits specified in permit condition #4.

[District Rule 1303 BACT]

8. 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. Daily, Monthly, and rolling twelve month operation in terms of total hours (from the engine hour timer);

b. Initial and periodic Differential Pressure readings across the NSCR 3 way catalyst (see Condition #11);

c. Records of all maintenance and repair actions performed on the engine, the AFRC, and the NSCR

d. Results of all engine source tests as required in conditions #6 and #7;

e. Coordinates lat/long where operation occurs; and,

f. Distance to closest receptor in meters.

[District Rule 204]

9. 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 Rules 1303 and 1320]

10. The differential pressure across the NSCR three way catalyst must be measured and recorded 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 pressure reading is properly taken and recorded.
[District Rules 204 and 1303]

11. The NSCR shall be cleaned in accordance with the manufacturer's written procedures when the pressure differential across the catalyst exceeds two (2) inches water column above its initial reading at startup.
[District Rule 1303]

12. Operation of this engine shall be limited to 1,440 hours per consecutive twelve month period.
[District Rule 1320]

13. This engine may not be operated within 100 meters 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]

14. This equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. This equipment must be moved for a valid business purpose annually.
[District Rules 1303 and 40 CFR 60 Subpart JJJJ]

15. The owner/operator shall notify the District within 24 hours of this equipment operating at each new location within the District. Notification must be sent electronically to engineering@mdaqmd.ca.gov. The notification must include:

- a. The permit number.
- b. The location/address where the equipment will be operated and description of the project.
- c. The contact information of the owner/operator of the equipment.

[District Rule 204]

16. 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]