



## 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

B008800

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: JUNE 2025**

#### OWNER OF OPERATOR (Co.#445)

Northwest Pipe Co  
12351 Rancho Road  
Adelanto, CA 92301

#### EQUIPMENT LOCATION (Fac.#1112)

Northwest Pipe Co  
12351 Rancho Road  
Adelanto, CA 92301

#### Description:

VAPORATOR STEAM GENERATOR consisting of: VE Corp., Model 70/4B, nameplate rating 7 MM Btu/hr (derated to max 4.5 MMBtu/hr by lockout of high end valve on unit - but not derated by manufacturer; therefore, District Rule 1157 applies).

#### EQUIPMENT

Capacity	Equipment Description
70	7 MMBtu/hr Vaporator with four pre-mix forced draft natural gas burners
2.55	Air Compressor (100 hp)

#### CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued.

[District Rule 204]

2. 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.

[District Rule 204]

Fee Schedule: 8 (d)

Rating: 7255000 Btu

SIC: 3317

SCC: 28888803

Location/UTM(Km): 465E/3824N

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

3.This equipment shall be fired on natural gas only.  
[District Rule 204]

4.A non-resettable totalizing fuel flow meter shall be installed and maintained on this unit.  
[District Rule 1157]

5.The owner/operator shall maintain an operations log for this equipment 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/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:

- a) Annual fuel use (in MMcf);
- b) Annual heat input (in MMBtu) reports as required by condition 6;
- c) Annual compliance test and/or tune up verification as required by conditions 7, 8, and 9; and,
- d) If a different tune-up procedure from that described in Section (I) of District Rule 1157 is used, then a copy of this procedure (and approval, if required), as required by condition 7.

[District Rule 1157(E)(2) and District Rule 107(b); H&S Code 39607 & 44341-44342; and 40 CFR 51, Subpart A]

6.The owner/operator shall monitor and record the High Heat Value and cumulative annual usage of each fuel. The cumulative annual usage of each fuel shall be monitored from utility service meters, purchase or tank fill records. A statement of the Annual Heat Input and annual fuel usage for the previous calendar year shall be submitted to the District no later than March 1 each year. This report shall be submitted to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).

This Annual Heat Input report will be reviewed annually to determine if this equipment is considered a High Annual Heat Input or Low Annual Heat Input unit for the previous year in accordance with District Rule 1157. A Low Annual Heat Input unit is defined as a unit with an annual heat input less than 50,000 MMBtu. A High Annual Heat Input unit is defined as a unit with an annual heat input greater than or equal to 50,000 MMBtu.

[District Rule 1157 (B) and (E)(2)(a)]

7.If this equipment is considered a Low Annual Heat Input unit based off the reporting requirements of condition 6, the owner/operator must tune this equipment at least annually in accordance with the procedure described in Section (I) of District Rule 1157; or, the manufacturer's specified tune-up procedure. Any modification the tuning procedure specified in Section (I) of District Rule 1157 must be approved prior to use by the APCO, CARB, and USEPA. In lieu of an annual tune-up, the owner/operator may comply with the limits specified in condition 8, as verified by condition 9.

[District Rule 1157(C)(4)(b)]

8.If this equipment is considered a High Annual Heat Input unit based off the reporting requirements of condition 6, the owner/operator must meet the following emission limits, verified by a compliance test as outlined in condition 9. The compliance test must be completed on or before December 31 of the calendar year immediately following the year that the Annual Heat Input threshold was exceeded.

- a) CO may not be in excess of 400 ppmv; and,
- b) NOx may not be in excess of 30 ppmv, and/or 0.036 lbs/MMBtu of heat input.

During periods of unexpected curtailment of pipeline natural gas, and upon written approval from the APCO, this unit must comply with a NOx emission limit of either 150 ppmv (as NO2 at 3% oxygen at its maximum fuel firing rate); or, 0.215 lbs/MMBtu of heat input. This exemption shall not exceed the period of natural gas curtailment, and specifically includes equipment and emission testing time not exceeding 48 hours per calendar year, and requires APCO approval.

[District Rule 1157(C)(4)(a) and (D); 40 CFR 63.7575 - unit defined as "gas 2 (other) subcategory unit"]

9.The owner/operator shall demonstrate compliance with the emissions limits specified in condition 8 through compliance testing not less than once every 12 months, except for when an owner/operator is complying with condition 7, in which the equipment must be tuned not less than once every 12 months. All compliance testing must be done in accordance with the Test Methods and Procedures specified in District Rule 1157 and the District's Compliance Test Procedural Manual.

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](mailto:reporting@mdaqmd.ca.gov).

[District Rule 1157 (E) and (F) and the District's Compliance Test Procedural Manual]

10. This facility has elected to voluntarily limit its emissions to the extent that this facility is no longer subject to the provisions of Regulation XII - Federal Operating Permits [District Rule 221(B)]. As such, the facility-wide emissions must be less than the following limitations in each consecutive twelve-month period:

- a) 80 tons per year of Carbon Monoxide (CO) per calendar year;
- b) 20 tons per year of Oxides of Nitrogen (NO<sub>x</sub>) per calendar year;
- c) 25 tons per year of Volatile Organic Compounds (VOC) per each consecutive twelve-month period (synthetic minor designation);
- d) 80 tons per year of Particulate Matter of 10 microns or less (PM<sub>10</sub>) per calendar year;
- e) 20 tons per year of Oxides of Sulfur (SO<sub>x</sub>) per calendar year;
- f) 8 tons per year of any single Hazardous Air Pollutant (HAP) per calendar year; and,
- g) 20 tons per year of any combination of HAP per calendar year.

Compliance with these emission limitations must be verified by pollutant-specific emission summaries for each calendar year except for VOC which must be verified for each consecutive twelve-month period. These emission summaries must be retained on-site for a minimum period of five (5) years; and, must be made available for review upon request by District, State or Federal personnel.

[District Rules 221(B) and 1201(S)]

In addition, this facility is designated as a Major Source of PM<sub>10</sub> under Regulation XIII - New Source Review, as it has a Potential to Emit in an amount equal to or greater than 15 tons per year of PM<sub>10</sub>; therefore, any new Permit Unit or any Modified Permit Unit at this facility must be fully offset pursuant to District Rule 1303(B).

[District Rules 1301(II) and 1303(B)]

11. 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]