



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

C013981

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 2026

OWNER OF OPERATOR (Co.#453)

Victor Valley Wastewater Reclamation Authority
20111 Shay Road
Victorville, CA 92394

EQUIPMENT LOCATION (Fac.#1124)

VVWRA - 20111 Shay
20111 Shay Road
Victorville, CA 92394

Description:

FLARE, DIGESTER GAS (#4) consisting of: A Varec Biogas model 244W waste gas burner/flare with a maximum MOP-8 flow rate of 36,170 cubic feet per hour and a minimum destruction efficiency of 98%. The biogas is expected to have a methane content of approximately 55% and a CO content of approximately 30% with a nominal heating value of 600 Btu per cubic foot.

CONDITIONS:

1. This flare 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.
[District Rules 204 and 1302]

2. This flare shall only burn digester gas produced at this treatment plant. Furthermore, the facility shall only use PUC-Regulated Pipeline quality natural gas for pilot burner fuel.
[District Rules 431, 1302 and 1320]

3. An operations log shall be maintained on-site for at least five (5) years and be made available to MDAQMD personnel on request. This log shall contain, as a minimum, the following:
 - a. The heating value of the digester gas in BTU/cubic foot - determined on at least a Quarterly basis;
 - b. Amount of digester gas burned monthly, in cubic feet; and

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 4952

SCC: 30119071

Location/UTM(Km):
467E/3831N

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.

Victor Valley Wastewater Reclamation
Authority
P.O. Box 370
Adelanto, CA 92301

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

c. Amount of digester gas burned in each consecutive 12 month period (rolling annual amount), in cubic feet
[District Rule 1302]

4. This flare shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.
[District Rules 1302 and 1320]

5. In order to remain below the 80% significance threshold for USEPA Major Source designation ("SM-80"), emissions from the entire facility shall not exceed the following limits:

- a. Oxides of Nitrogen (NO_x): 20 tons per consecutive twelve month period, measured as NO₂;
- b. Oxides of Sulfur (SO_x): 20 tons per consecutive twelve month period;
- c. Volatile Organic Compounds (VOC): 20 tons per consecutive twelve month period;
- d. Carbon Monoxide (CO): 80 tons per consecutive twelve month period;
- e. Hydrogen Sulfide (H₂S): 8 tons per consecutive twelve month period;
- f. Lead (Pb): 0.48 tons per consecutive twelve month period;
- g. Particulate Matter 10 microns and less (PM₁₀): 12 tons per consecutive twelve month period;
- h. Any single Hazardous Air Pollutant (HAP): 8 tons per consecutive twelve month period; and
- i. All HAPs combined: 20 tons per consecutive twelve month period.

Compliance shall be demonstrated to the District through the submission of a District approved Comprehensive Emission Inventory Report (CEI) or other equivalent and District approved method.
[District Rules 1302 and 1320]

6. 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]