



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

M013206

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 2025

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:

NATURAL GAS / DIGESTER GAS IC ENGINE, TURBLEX BLOWER #2 consisting of: A Waukesha model F3521GU natural gas/digester gas fueled engine originally installed at the plant in 1981; operated in conjunction with a supplemental electric-motor powered blower.

One Waukesha, D-Gas fired internal combustion engine Model No. F3521GU and Serial No. 319531, Four-Stroke Rich Burn, Spark-Ignited, producing 409 bhp with 6 cylinders at 900 rpm while consuming a maximum of 3200 scf/hr. This equipment powers a Turblex Blower Model No. KA22SV-GC215 and Serial No. 4550, rated at 9200 scfm at 8.1 psig.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	.81	gm/bhp-hr
NOx	.26	gm/bhp-hr
PM2.5	.002	gm/bhp-hr
SOx	.036	gm/bhp-hr
VOC	.022	gm/bhp-hr

CONDITIONS:

Fee Schedule: 10 (1c) Rating: 409bhp SIC: 4952 SCC: 20300702 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
20111 Shay Road
Victorville, CA 92394

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

1.This facility shall not treat more than 14.5 million gallons of waste water per day, averaged over any 30 day period.
[District Rules 1303 and 1320]

2.This equipment 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 1303]

3.A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.
[District Rule 1302(C)(2)(a)]

4.This engine and the engine described in District Permit B013205 shall not be operated simultaneously except for a 30 minute maximum transition period when switching from one engine to the other.
Furthermore, this engine and the engine described in District Permit B013205 shall not be operated for a combined total of more than 8784 hours in any consecutive 12 month period.
[District Rules 301 and 1303]

5.This engine shall only be fired on PUC grade Natural Gas or Digester Gas, in any ratio.
[District Rules 1302 and 1320]

6.This engine shall undergo the following minimum schedule of inspections and maintenance:

- a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first (see note below):
 - b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and
 - c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.
- [40 CFR 63, Subpart ZZZZ, Table 2D]

Note: You have the option to utilize an oil analysis program as described in § 63.6625(j) in order to extend the above specified oil change requirement.

7.The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of three (3) 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 operation in terms of fuel consumption for both Natural Gas and for Digester Gas (in MMSCF or hours); and
- b. Records of all required maintenance, inspections, and, if any, source tests.

[District Rule 1302(C)(2)(a)]

8.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]