



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

N003570

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: NOVEMBER 2026

OWNER OF OPERATOR (Co.#88)

NAWS
429 E Bowen Road - Stop 4014
China Lake, CA 93555-6108

EQUIPMENT LOCATION (Fac.#567)

NAWCWD Test Stands
429 E Bowen Road - Stop 4014
China Lake, CA 935556108

Description:

GASOLINE DISPENSING FACILITY, NON-RETAIL (BLDG 32571) consisting of: A 6,000 gallon aboveground gasoline storage tank manufactured by SuperVault (MH Series), equipped with a Husky 5885 Pressure/Vacuum Vent Valve, a two-point Phase I system and a Balance Phase II system. The GDF also includes a 1,000 gallon Diesel tank and dispensing equipment.

FUEL TANKS

Tank No.	Material Stored	Volume (US Gallons)	Above/Underground
1	87U	6,000	Above Ground

DISPENSING EQUIPMENT

Fuel Type	Quantity
87U	1
Diesel	1

VAPOR CONTROL EQUIPMENT

Type	Equipment Name	Compliance
PII	HIRT	G-70-139
PI	DP	VR-402-B

Fee Schedule: 5 (a) Rating: 6000 gallons SIC: 9711 SCC: 40600603 Location/UTM(Km): 450E/3946N

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.

NAWS
Environmental Management Division
China Lake, CA 93555-6108

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

CONDITIONS:

1. The toll-free number that must be conspicuously posted in the gasoline dispensing area in accordance with District Rule 461 is: 1-800-635-4617.
[District Rule 461]

2. The owner/operator shall maintain an operations log for this GDF 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) Date and results of each inspection;
- (b) Records of all maintenance and repairs;
- (c) Rolling consecutive twelve-month period throughput, in gallons; and
- (d) Results of all tests conducted, including failed tests.

[District Rules 204 and 461; 40 CFR 70.6(a)(3)(ii)(b)]

3. Any modifications or changes to the piping or control fittings of the vapor recovery system require prior approval from the District.

STATE AND DISTRICT ENFORCEABLE ONLY

[District Rule 461; District Regulation XIII - NSR]

4. Pursuant to Executive Order VR-301, the vapor vent pipes are to be equipped with Husky 5885 pressure relief valves or as otherwise allowed by the executive order.

STATE AND DISTRICT ENFORCEABLE ONLY

[District Rule 461; CARB Executive Order VR-301]

5. The owner/operator shall conduct and pass the following tests at least once in every rolling consecutive twelve-month period:

- (a) Leak Rate and Cracking Pressure of P/V Valve in accordance with CARB Test Method TP-201.1E;
- (b) Liquid Removal Rate in accordance with CARB Test Method TP-201.6, if applicable;
- (c) Static Pressure Decay test in accordance with CARB Test Method TP-201.3B (2-inch test); and
- (d) Emergency vents and manways shall be leak free when tested at the operating pressure of the tank in accordance with CARB Test Method 21. A leak is defined as a meter concentration of 10,000 ppmv or higher, measured as methane.
- (e) If a FFS PV-Zero P/V vent valve is used, tests shall be conducted with the valve remaining in its installed position on the vent line(s) in accordance with PV-Zero section of the applicable ARB-Approved installation, Operation and Maintenance Manual.

The District shall be notified a minimum of 10 days prior to performing the required tests with the final results submitted to the District within 30 days of completion of the tests. Testing notifications and testing results may be sent to

VaporRecoveryTesting@mdaqmd.ca.gov.

STATE AND DISTRICT ENFORCEABLE ONLY

[District Rules 204 and 461; CARB Executive Order VR-301 IOM]

6. The rolling consecutive twelve month period throughput shall not exceed 500,000 gallons. Before this throughput limit can be increased, the facility may be required to submit a site specific Health Risk Assessment in accordance with a District approved plan. In addition, public noticing and a comment period may be required.

STATE AND DISTRICT ENFORCEABLE ONLY

[District Rules 204, 1302, and 1320]

7. The owner/operator shall operate and maintain this GDF in accordance with CARB Executive Orders G-70-139, VR-301, and VR-402. The hanging hardware shall be replaced with EVR Phase II certified hardware during all future replacements of such items. Pursuant to Executive Order VR-402, Maintenance and repair of system components, including removal and installation of such components in the course of any required tests, shall be performed by Morrison Bros. Certified Technicians or as allowed by Executive Officer.

STATE AND DISTRICT ENFORCEABLE ONLY

[District Rule 461; CARB Executive Orders G-70-139, VR-301, and VR-402]

8. Maintenance and repair of EVR Phase I system components, including removal and installation of such components in the course of any required tests and inspections, shall be performed by factory certified technicians.

STATE AND DISTRICT ENFORCEABLE ONLY
[District Rule 204; CARB Executive Order VR-402]

9. At least once in any consecutive twelve-month period, the owner/operator shall conduct the following Hirt VCS-200 maintenance:
(a) Check the vacuum turbine's ability to evacuate the vapor recovery system and maintain proper vacuum. While preparing to dispense fuel to motor vehicles (pump energized, but no dispensing), the system shall achieve a vacuum of at least 0.4 inches of water column. Otherwise, the system shall maintain a vacuum of at least 0.1 inches of water column. The system vacuum shall be verified at the dispensing pump which has the longest vapor path to the thermal oxidizer. This dispensing pump shall be fitted with a permanent pressure gauge in order to verify system vacuum. If needed, the o/o shall calibrate the Hirt pressure switches in accordance with Hirt instructions to meet the above specifications.

(b) Check pilot light and main burner for proper operation. Upon activation of the vacuum turbine, the pilot solenoid should open and allow raw vapors to exit through the pilot light. Simultaneously, the ignitor module should cause an electric spark to be arced near the pilot light head and ignite the pilot flame. Thereafter, the electric spark should stop and the burner solenoid should open and allow vapors to exit through the burner where they are combusted. After the burner flame is ignited, a thermal switch should close the pilot solenoid and thereby extinguish the pilot flame. The pilot flame should ignite within one to five seconds. (Ignition is readily noted by the termination of the audible "clicking" sound of the electronic ignitor and observation of the pilot flame itself). Delayed ignition or burner cycling on and off indicates needed adjustment or system maintenance.

STATE AND DISTRICT ENFORCEABLE ONLY
[District Rule 204; CARB Executive Order G-70-139]

10. At least once in any consecutive twelve-month period, the owner/operator shall demonstrate the vapor recovery systems capacity to clear a liquid blockage by completing the following: (a) Introduce 100 milliliters of gasoline into the dispensing nozzles vapor return line (through the bellows).

(b) Then dispense 10 gallons of gasoline through the nozzle.

(c) Verify that no more than 2 milliliters of liquid gasoline drains from the nozzle boot after dispensing.

STATE AND DISTRICT ENFORCEABLE ONLY
[District Rule 204; CARB Executive Order G-70-139]

11. The Hirt vacuum turbine shall be replaced at least once every ten years since the previous installation/replacement. A record of the most recent replacement shall be kept with the equipment at all times.

STATE AND DISTRICT ENFORCEABLE ONLY
[District Rule 204; CARB Executive Order G-70-139]