



SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
10124 OLD GROVE ROAD
SAN DIEGO CA 92131
 PHONE (858) 586-2650 FAX (858) 586-2651

| APCD USE ONLY |
|---------------|
| SECTOR |
| ID# |
| NOV# |

VEEDER-ROOT VAPOR POLISHER OPERABILITY TEST PROCEDURE
 Exhibit 11 of ARB E.O. VR 203-X or VR-204-X

Facility Name: _____ A/C or PO Number: _____ Date/Time of Test: _____

For ISD Alarm Response Purposes only: Processor ball valves in proper orientation, processor is in the on and automatic vapor processor mode and nozzle boots inspected for damage :Yes No

| FACILITY AND TEST EQUIPMENT INFORMATION | |
|---|--|
| Date and Time of Last Vapor Polisher Load or Purge: | |
| Date and Time of Last Fuel Delivery: | |
| Calibration Date of Flow Meter: | |
| Calibration Date of Electronic Pressure Measuring Device: | |
| Calibration Date of Thermometer: | |

PRESSURE INTEGRITY TEST RESULTS

| | | |
|---|--|--|
| Date and Time the Vapor Valve was closed: | | |
| Vapor Control Valve Manually Closed? ¹ | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| 3-Way Ball Valve in Correct Testing Position? <i>Refer to Figure 1</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| Leak Detection Solution used during pressure integrity test to check for leaks at the compression fittings found at the bottom of the Vapor Polisher? | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| | Initial Test | Retest (If Applicable) <input type="checkbox"/> N/A |
| Initial Pressure Reading | _____ inches W.C. | _____ inches W.C. |
| Start Pressure Reading [After 1 minute (60 seconds)] ² | _____ inches W.C. | _____ inches W.C. |
| Final Pressure Reading [After 2 minutes (120 seconds)] ² | _____ inches W.C. | _____ inches W.C. |
| Difference in Start & Final Pressure Readings | _____ inches W.C. | _____ inches W.C. |
| Final Pressure Greater than 7.0 inches W.C.? | <input type="checkbox"/> YES <input type="checkbox"/> NO | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| Final Pressure Greater than Start Pressure? | <input type="checkbox"/> YES <input type="checkbox"/> NO | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| If No, is the Decrease in Pressure less than 0.5 inches W.C.? | <input type="checkbox"/> YES <input type="checkbox"/> NO | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| RESULTS: PASS (P) / FAIL (F) | | |

FLOW TEST RESULTS

| | |
|--|--|
| Vapor Control Valve Manually Opened? ³ | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| Flow Rate ⁴ | _____ SCFH |
| Pressure Reading at Inlet ² | _____ inches W.C. |
| Is the Pressure Reading between 1.69 and 2.25 inches W.C.? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| Vapor Valve in Automatic Mode after completing Flow Test? ⁵ | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| Inlet Test Port in Normal Operating Position after completing Flow Test? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| RESULTS: PASS (P) / FAIL (F) | |

| THERMOMETER TEST RESULTS | | | | | | |
|---|--|---------------------------------------|--------------------------------------|-------------------------------------|--|---------------------|
| VAPOR VALVE THERMOMETER | | | | | | |
| | | Ambient Temperature ⁶ (°F) | Outlet Temperature ⁷ (°F) | Calibrated Thermometer Reading (°F) | Difference in Temperatures ⁷ (°F) | Pass (P) / Fail (F) |
| <input type="checkbox"/> Initial Test Only | Initial Test Results | | | | | |
| Re-test Results <input type="checkbox"/> N/A | Introduced Nitrogen into Canister for 2 minutes prior to printing Temperature Diagnostic Report? <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | |
| Additional Test Results <input type="checkbox"/> N/A | Removed Outlet Temperature Probe from the Canister & waited at least 15 minutes prior to comparing temperatures? <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | |
| | | | | | | |

| GASOLINE UST TANK THERMOMETER | | | | | | | | |
|--|----------------------------------|-----------------------|---|--|-----------------------|---|--|--------------------|
| Product Grade of the Gasoline Storage Tank | Gasoline Tank Thermometer Values | | | | | | | |
| | Initial Test Results | | | Additional Test Results | | | | Pass (P)/ Fail (F) |
| | T5 ⁸ (°F) | T4 ¹⁰ (°F) | Difference in Temperatures (T5-T4) (°F) | Removed tank probe & waited at least 15 minutes prior to comparing temperatures? <input type="checkbox"/> YES <input type="checkbox"/> NO | T5 ¹⁰ (°F) | Calibrated Thermometer Reading (Cal) ¹⁰ (°F) | Difference in Temperatures (T5-Cal) (°F) | |
| | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | |
| | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | |
| | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | |
| | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | |
| | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | |

| ATMOSPHERIC PRESSURE SENSOR TEST RESULTS | |
|---|--|
| Atmospheric Pressure Reading from TLS Console ⁹ | _____ PSI |
| | _____ inches Hg |
| Atmospheric Pressure Reading from a Local Independent Source | _____ inches Hg |
| Difference in Pressure Reading Between Local Source and TLS Console ¹⁰ | _____ inches Hg |
| Value for 10% of Local Source ¹¹ | _____ inches Hg |
| Difference between Local Source and TLS Pressure Reading less than 10% of Local Source? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| RESULTS: PASS (P) / FAIL (F) | |

¹ Attach the IV8000 RS232 Command Report to this test result form indicating the date and time the valve was last closed automatically as well as the date and time the valve was manually closed.

² Record the pressure reading, in inches water column (W.C.), to the nearest hundredth (e.g. 0.01 inches W.C.).

³ Attach the IV8000 RS232 Command Report to this test result form indicating the date and time the valve was manually opened.

⁴ Record the flow rate, in standard cubic feet per hour (SCFH), to the nearest tenth (e.g. 0.1 SCFH).

⁵ If the Hydrocarbon Verification Test per Exhibit 12 of VR-203-X/VR-204-X will be performed after this test, then the ball valve can be closed after the hydrocarbon verification test has been completed.

⁶ Attach the Vapor Valve Diagnostic Report(s) from the TLS Console to this test result form indicating the Vapor Polisher Ambient and Outlet Temperatures.

⁷ Difference in Temperatures = | Ambient Temperature – Outlet Temperature | or vice versa.

⁸ Attach the In-Tank Diagnostic Report(s) from the TLS Console to this test result form for each gasoline tank tested indicating the T4 and T5 temperature values.

⁹ Attach the ATMP Sensor Smartsensor Diagnostic Report to this test result form indicating the atmospheric pressure, in pounds per square inch (PSI). To convert the pressure from PSI (P_{PSI}) to inches Hg (inches Mercury, P_{Hg}), use the following equation:

$$P_{Hg} = (P_{PSI} + 14.7) * 2.036$$

¹⁰ Difference in Pressure Reading = | TLS Console Pressure Reading – Local Source Pressure Reading | or vice versa, inches Hg.

¹¹ Value for 10% of Local Source = 0.10 * Pressure Reading from Local Source, inches Hg.