

Attachment B

Vapor Recovery Tests for Phase I Aboveground Storage Tanks including Phase II Systems or under CARB Executive Order NVR

Phase I EVR Executive Orders VR-301-X, VR-302-X, VR 401-X, VR 402-X

Phase II EVR Executive Orders VR-G-70-187(Healy)

Non-Phase II Executive Order NVR-1 Series (Aboveground or Underground Storage Tanks)

Unless otherwise specified by a District representative, the tests noted in the table(s) below shall be conducted in the following order. The order is specified to not bias any test(s) and practicality purposes.

Aboveground Tank Capacity ≤ 550 gallons Standing Loss EVR		
Test Order	Test	Notes
1	TP 201.1E P/V Vent Valve Test	Phase I
2	AST Two Inch Pressure Decay Exhibit 4 VR-401-X, Exhibit 6 402-X	Test Procedure Exhibit 4 VR-401-X or Exhibit 6 VR-402-X shall be conducted and completed between sundown and 10:00 a.m. Nitrogen can be introduced into the AST through the vapor adaptor or vent pipe during the Exhibit 4 VR-401-X or Exhibit 6 VR-402-X test. If Nitrogen is introduced through the vapor adaptor, the vapor coupler test assembly shall be leak checked in accordance with TP 201.3 (sections 5.5, 6.7-6.7.2) prior to conducting Exhibit 4 VR-401-X or Exhibit 6 VR-402-X test.
	TP 96-1 Ten Inch Pressure Decay	Can be conducted in lieu of Exhibit 4 VR-401-X or Exhibit 6 VR-402-X and at any time per weather conditions stated in TP-96-1 section 3.4. TP 96-1 requires that a 15 minute test be conducted with an allowable decay of 0.1" W.C. For each tank/compartments with a capacity less than 1,000 gallons the minimum ullage must be greater than or equal to 300 gallons in order to conduct TP 96-1. Nitrogen can be introduced into the AST through the vapor adaptor or vent pipe during the TP 96-1 test. If nitrogen is introduced through the vapor adaptor, the vapor coupler test assembly shall be leak checked in accordance with TP 201.3 (sections 5.5, 6.7-6.7.2) prior to conducting the TP 96-1 test.

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Aboveground Tank Capacity $\geq$ 550 gallons Standing Loss EVR with Phase I EVR and Phase II (if installed)		
Test Order	Test	Notes
1	TP 201.1E P/V Vent Valve Test	Phase I
2	TP 201.1B Static Torque	Phase I – If adaptors are rotatable.
3	AST Two Inch Pressure Decay Exhibit 4 VR-401-X Exhibit 6 402-X TP 96-1 Ten Inch Pressure Decay	Test Procedure Exhibit 4 VR-401-X or Exhibit 6 VR-402-X shall be conducted and completed between sundown and a half hour after sunrise. Nitrogen can be introduced into the AST through the vapor adaptor or vent pipe during the Exhibit 4 VR-401-X or Exhibit 6 VR-402-X test. If Nitrogen is introduced through the vapor adaptor, the vapor coupler test assembly shall be leak checked in accordance with TP 201.3 (sections 5.5, 6.7-6.7.2) prior to conducting Exhibit 4 VR-401-X or Exhibit 6 VR-402-X test Can be conducted in lieu of Exhibit 4 VR-401-X or Exhibit 6 VR-402-X and at any time per weather conditions stated in TP-96-1 section 3.4. TP 96-1 requires that a 15 minute test be conducted with an allowable decay of 0.1” W.C. For each tank/compartment with a capacity less than 1,000 gallons the minimum ullage must be greater than or equal to 300 gallons in order to conduct TP 96-1. Nitrogen can be introduced into the AST through the vapor adaptor or vent pipe during the TP 96-1 test. If nitrogen is introduced through the vapor adaptor, the vapor coupler test assembly shall be leak checked in accordance with TP 201.3 (sections 5.5, 6.7-6.7.2) prior to conducting the TP 96-1 test.
4	Vapor Return Integrity Healy Exhibit 4 Healy G-70-187	Phase II -If Installed
5	Fillneck Vapor Pressure Healy Exhibit 5 Healy G-70-187	Phase II -If Installed

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Vapor Recovery Tests for Phase I Aboveground Storage Tanks including Balance Phase II Systems (HIRT VCS 100 Processor)

Phase I EVR Executive Orders VR-301-X, VR-302-X, VR 401-X, VR 402-X

Phase II EVR Executive Orders VR-501-X

Unless otherwise specified by a District representative, the tests noted in the table(s) below shall be conducted in the following order. The order is specified to not bias any test(s) and practicality purposes.

Aboveground Tank Capacity ≥ 550 gallons Standing Loss EVR with Phase I EVR and Phase II		
Test Order	Test	Notes
1	HIRT Processor Panel Operability (Exhibit 8)	Phase II
2	TP 201.1E P/V Vent Valve Test (Exhibit 2 VR-301-X, Exhibit 2 VR-302-X)	Phase I
3	TP 201.1B Static Torque	Phase I— If adaptors are rotatable.
4	AST Two Inch Pressure Decay Exhibit 4 VR-401-X, Exhibit 6 402-X Exhibit 4 502-X	Phase I/II. Exhibit 4 VR 502-X Test Procedure Exhibit 4 VR-401-X or Exhibit 6 VR-402-X or Exhibit 502-X shall be conducted and completed between sundown and a half hour after sunrise. Nitrogen can be introduced into the AST through the vapor adaptor or vent pipe during the Exhibit 4, Exhibit 6 VR-402-X or Exhibit 4 VR-502-X test. If Nitrogen is introduced through the vapor adaptor, the vapor coupler test assembly shall be leak checked in accordance with TP 201.3 (sections 5.5, 6.7-6.7.2) prior to conducting Exhibit 4 VR 502-X Required Items in Conducting Exhibit 4 (VR 5025-X Appendix) Before conducting Exhibit 4, Inlet ball valve shall be opened, and Power Switch shall be in “Off” position. After conducting Exhibit 4, the Power Switch shall be in “ON” position and inlet ball valve on the Hirt VCS 100-2- VaporTek shall be in the open locked position.

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	TP 96-1 Ten Inch Pressure Decay	Can be conducted in lieu of Exhibit 4 VR-401-X, Exhibit 6 VR-402-X or Exhibit 4 502-X and at any time per weather conditions stated in TP-96-1 section 3.4. TP 96-1 requires that a 15 minute test be conducted with an allowable decay of 0.1" W.C. For each tank/compartments with a capacity less than 1,000 gallons the minimum ullage must be greater than or equal to 300 gallons in order to conduct TP 96-1. Nitrogen can be introduced into the AST through the vapor adaptor or vent pipe during the TP 96-1 test. If nitrogen is introduced through the vapor adaptor, the vapor coupler test assembly shall be leak checked in accordance with TP 201.3 (sections 5.5, 6.7-6.7.2) prior to conducting the TP 96-1 test.
5	Vapor Return Integrity Healy (Exhibit 4)	Phase II -If Installed
6	Liquid Removal Test Procedure (Exhibit 5)	Phase II -Must conduct flow rate verification for each grade point prior to starting liquid removal test. The flow rates for all grade points must be tested and verified to be within the range of 5.0 to 10.0 gallons per minute (gpm).
7	TP-201.4 Dynamic Back Pressure Methodology	Phase II. Exhibit 6 (Required items) of EO VR 502 must be conducted in conjunction with TP 201.4
8	Nozzle Bag Test (Exhibit 7)	Phase II. This test can be conducted during the pressure decay test. The vapor space shall be pressurized to 2.0" WC.
9	Liquid Condensate Trap Compliance Test Procedure (VR-501 Exhibit 9)	Phase II -If installed