

**ENVIRONMENTAL PROTECTION DIVISION** 

## STAGE 1 VAPOR RECOVERY TEST REPORT

Facility ID #:		Air Station ID #:
Test Date: :		Start Time:
StationInformation		Owner Information
Name of Facility:		Name of Owner:
Address of Facility:		Address of Owner:
City:		City:
State: Georgia		
Zip Code:		Zip Code:
TestingCompany:		Phone Number:
TestingTechnician:		
Technician's Phone Numbe	<b></b>	
Technician seriorienumbe		
Type of Test:		
□ Re-Certification	Retest after Repa	ITS (Please attach initial test with failing components)
□ Initial Certification	□ Re-Certification A	fter Major Construction
Test Result	Pass	🗆 Fail
Date of Installation: <b>Stage I Tank Pit</b> Please Check the System		
🗌 VR - 1	.01 Phil-Tite Phase 1	□ VR - 104 CNI Phase 1
🗆 VR - 1	.02 OPW Phase 1	VR - 105 Emco Wheaton
🗌 VR - 1	03 EBW Phase 1	Other Approved System

Please include the Facility ID # or tank registration number on every page of this report.

## Tank Product and Size

Type of Stage I System

□ EVR □ Non-EVR:

🗆 Two-Point

		Coaxial Poppetted
	Tank #1	Tank #2
Product in Each Tank		
Actual Capacity (gal.)		
Material (Steel or Fiber)		
Depth of Gas (in.)		
Amount of Gas (gal.)		
Product Dust Cap		
Vapor Dust Cap		
Length of Drop Tube (in.)		
ATG Dust Cap		
ATG Adaptor		
Other ATG Adaptor, if applicable		
Depth to Tank Bottom (in.)		
Type & Model of Drop Tube		

	Tank #3	Tank #4
Product in Each Tank		
Actual Capacity (gal.)		
Material (Steel or Fiber)		
Depth of Gas (in.)		
Amount of Gas (gal.)		
Product Dust Cap		
Vapor Dust Cap		
Length of Drop Tube (in.)		
ATG Dust Cap		
ATG Adaptor		
Other ATG Adaptor, if applicable		
Depth to Tank Bottom (in.)		
Type & Model of Drop Tube		

## Manufacturer Information

	Facility	ID #:
Total Tank Capacity (gal.):	,	
Total Gasoline Volume (gal.):		
Total Ullage Volume (gal.)		
Are the tanks Manifolded?         Yes    No		
Location of Manifold: 🛛 Above Ground	□ Below Ground □ N/A	
Number of P/V Vent Valves for Gasoline:		
Height of Gasoline P/V Vent Valves:		
Manufacturer Model # (Non-EVR)	EVR	P/V setting:
□ OPW 523LP, 523LPS	□ Franklin PV-0	
□ OPW 523 V		
□ Hazlett-PVB-1 Gold Label	□ Husky 5885	
□ Husky 4620		
□ Husky 4885	□ OPW 723 V	
□ Morrison Brothers 749CRB0600 AV		
□ EBW Model 802-309, 802-308		
□ PW 623 V		
□ Any CARB-certified valve with the		
following Pressure and Vacuum settings:		
<u>Vacuum</u> : 8.0" ± 2.0" WC		
<u>Pressure</u> : 3.0" ± 0.5 " WC Specify Valve Model:		

## Static Torque Test (TP 201.1B)

Facility ID #: \_\_\_\_\_

Check one of the following adaptors below:	
Vapor	Products
OPW 61 VSA	OPW 61 SALP
EBW SWV-101B	□ EBW SMW - 100
Emco Wheaton A0076-124	Emco Wheaton A0030 -124
□ Phil-Tite SW-101	🗆 Phil Tite SW - 100
□ Other	□ Other

Does Dust Cap seal show excessive wear or damage?Yes / NoIs the surface of the rotatable adaptor and dust cap dry, and free ofIs the surface of the rotatable adaptor and dust cap dry, and free ofIubricant?Yes / No

Measurement Units:	Pound - Inches	🗆 Pound - feet	
Vapor Adaptor 1	Vapor Adaptor 2	Vapor Adaptor 3	Vapor Adaptor 4
Brand:	Brand:	Brand:	Brand:
Model:	Model:	Model:	Model:
Grade:	Grade:	Grade:	Grade:
Torque 1:	Torque 1:	Torque 1:	Torque 1:
Torque 2:	Torque 2:	Torque 2:	Torque 2:
Torque 3:	Torque 3:	Torque 3:	Torque 3:
Average:	Average:	Average:	Average:
360 Rotation:	360 Rotation:	360 Rotation:	360 Rotation:
Product Adaptor 1	Product Adaptor 2	Product Adaptor 3	Product Adaptor 4
Brand:	Brand:	Brand:	Brand:
Model:	Model:	Model:	Model:
Grade:	Grade:	Grade:	Grade:
Torque 1:	Torque 1:	Torque 1:	Torque 1:
Torque 2:	Torque 2:	Torque 2:	Torque 2:
Torque 3:	Torque 3:	Torque 3:	Torque 3:
Average:	Average:	Average:	Average:
360 Rotation:	360 Rotation:	360 Rotation:	360 Rotation:

If average static torque less or equal to 108 lb-in (9 lb-ft)?

If Yes, Pass 🛛

If No, Fail 🛛

## Drop Tube-Drain Valve Assembly (TP 201.1C) / Overfill Protection and Spill Container Drain Valves (TP 201.1D)

Facility ID #: \_\_\_\_\_

### Test of Drop Tube/Drain Valve Assembly (TP 201.1C)

Device Type &			30 sec Pressure
Product Grade	Pressurize	Rate (CFH)	(inch WC)

Verify that the liquid in the storage tanks is at least 4 inches above the highest opening at the bottom of the submerged drop tube.

# Does the pressure gauge indicate the 2 inches within 5 minutes? If no, replace or repair component. If yes, mark one of the following:

Pass if the flow rate is  $\leq 0.17$  CFH at 2.0"  $\pm 0.05$ " WC.

Fail if the flow rate > 0.17 CFH and the measured presure never reached 2" WC.

### Test of Leak Rate of Overfill Protection Devices and Drain Valves (TP 201.1D)

Device Type & Product Grade	Time to Pressurize	30 sec Flow Rate (CFH)	30 sec Pressure (inch WC)	Leak Rate for Overfill Device Only (CFH)

Leak rate of overfill device (Q) = Q Droptube Assembly - Q Drain Valve

### 1 ml/min = 0.00212 CFH\*

\*If the flowmeter is in MM unit, use the test device flow chart.

# Does the pressure gauge indicate the 2 inches within 5 minutes? If no, replace or repair component. If yes, mark one of the following:

Pass if the flow rate is  $\leq 0.17$  CFH at 2.0"  $\pm 0.05$ " WC.

Fail if the flow rate > 0.17 CFH and the measured presure never reached 2" WC.

### To test the entire drop tube assembly

Pass if the flow rate is  $\leq 0.34$  CFH at 2.0"  $\pm 0.05$ " WC.

Fail if the flow rate > 0.34 CFH and the measured presure never reached

2" WC

### Pressure Vacuum Valve Test (TP 201.1E)

	Facility ID #:
Pres	sure / Vacuum Vent Valve Data Sheet TP 201.1E
Facility Name:	Test Date:
Address:	Test Company:
City:	Technician:

P/V Valve Manufacturer	Model #:	PASS	FAIL
Specified Positive Leak Rate:	Specified Neg	ative Leak Rate:	
Measured Positive Leak Rate (CFH):	Measured Ne	gative Leak Rate (CFF	H):
Positive Cracking Rate (inch WC):	Positive Leak	Rate (inch WC):	

	P/V Valve Manufacturer	Model #:	PASS	FAIL	
Specified Positive Leak Rate:		Specified No	Specified Negative Leak Rate:		
Measured Positive Leak Rate (CFH):		Measured N	legative Leak Rate (CFH	):	
Positive Cracki	ng Rate (inch WC):	Positive Lea	k Rate (inch WC):		

P/V Valve Manu	facturer Mo	del #:	PASS	FAIL
Specified Positive Leak Rate:		Specified Neg	gative Leak Rate:	
Measured Positive Leak Rate (C	CFH):	Measured Ne	gative Leak Rate (CFH):	
Positive Cracking Rate (inch Wo	2):	Positive Leak	Rate (inch WC):	

Recall 1 ml/min = 0.00212 CFH

### Please process and answer the following:

Pre-test Leak Check of Test Stand Result (prior to installing P/V vent valve):

Calibration date of the Flow Metering Device (every six months):

Calibration date of the Pressure Metering Device (every six months):

### **Test Procedure**

### For Positive Leak Rate:

- 1. Slowly open the control valve on the flow meter untill the pressure stabilizes at 2.0"  $\pm$  0.5" WC.
- 2. Start the stop watch and maintain steady state pressure by using the control valve for at least ten (10) seconds.
- 3. If the pressure gauge changes for not more than 0.05" WC, then the flow is steady.
- 4. Record the final flow rate on the data sheet and close the control valve.

#### For Positive Cracking pressure:

- 1. Open the bypass valve to route the flow outside of the test assembly.
- 2. Open the control Valve on the positive Flow Metering device to establish a flow rate of 120 ml/min.
- 3. Once flow is stabilized, close the bypass valve to route the flow into the test assembly.
- 4. Observe the pressure. The P/V valve should crack within 2.5" 6.0 " WC (this is marked by a sudden drop in pressure).
- 5. Record the cracking pressure (highest pressure achieved) on the data sheet and close the control valve.

### For Negative Leak Rate and Cracking Pressure:

For negative leakrate follow same steps, but instead use vacuum flow metering device and pressure should stabilize at -  $4.0" \pm 0.5"$  WC. For negative cracking pressure, follow the same steps except use flow rate of 200 ml/min and P/V valve should crack within a negative pressure of 6.0"-10" WC.

## Pressure Decay Test (TP 201.3)

		Facility ID # :							
Have dust caps be		om the vapor	recovery						
return and the fill tubes?					□ Yes	🗆 No			
Check the point where nitrogen is introduced into the vapor recovery system.									
	□ Vent for Pl	us Tank	Vapor retu	irn poppet fo	r:				
Types of Vapor 8	& Product Ada	aptor:							
.,,,	□ Fix								
	Non-Loosening or Over Tightening (Swivel)								
	□ Locking C	lamp							
	CNI Part # 611DB4AC & 613BC								
	OPW 633LC accommodate with OPW 633								
Allowable Final Pr Nitrogen Flow Rat			t per Minute (	CFM):					
0	,	,	i v	,					
Initial Pressurizatio									
Length of time allowed for initial pressurization as determined by the equation: Time = 2(U/(1522*F))									
	Where U = Total Ullage of the system F = The Nitrogen Flow Rate into the system in Cubic feet per minute (CFM)								
Starting at 0" of p	ressure, the ac	tual time take	n to reach 2" \	NC is:					
Are tanks pressurized to 2 inches?		s?		□ Yes	🗆 No				
					-	-			
	Minute 1	Minute 2	Minute 3	Minute 4	Minute 5	4			
Pressure (inch WC)						-			
Time						]			
		Pass	🗆 Fail						
Did the vapor retu	ırn poppet sea	t evenly with t	he adaptor aft	ter complete	testing?				
🗆 Yes	🗆 No								
Note: If time to in	itially pressuriz	e is greater th	an that allowe	ed by the equa	ation,				
make sure to list v	what repairs w	ere necessary	to allow the sy	stem to pass					

Date of repairs: List of repairs made: