



**CARGO TANK VAPOR-TIGHTNESS TEST REPORT**  
 REFERENCE METHOD 27 (40CFR PART 60 APPENDIX A)

**Tank Identification**

Company Name (Tank Owner) \_\_\_\_\_ Telephone # \_\_\_\_\_  
 Mailing Address \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_  
 Trailer Serial # \_\_\_\_\_ Trailer Tag # & State \_\_\_\_\_  
 Company Trailer # \_\_\_\_\_ Tank Manufacturer \_\_\_\_\_ Year Manufactured \_\_\_\_\_

**Pretest Preparations**

Method of purging gasoline vapors from tank? Carrying a load of diesel or heating oil  Blowing ambient air into tank  Cleaning out tank  Other  (Specify) \_\_\_\_\_  
 Pressure Source: Pump  Compressed air  Water  Vacuum Source: Pump  Water   
 Can compartments be connected? Yes  no  (If no, each compartment must be tested and results reported.)

**Tank Tests (EPA Method 27)**

Capacity of compartments	Pressure Test	Initial Pressure	Final Pressure	Delta ( $\Delta P$ ) pressure
1)Front	Test 1			
2)	Test 2			
3)	Average of $\Delta P$ of Test #1 & Test #2			
4)	Difference in $\Delta P$ of Test #1 & Test #2			
5)				
6)				
7)Rear				
(Total)				

  

Vacuum Test	Initial Vacuum	Final Vacuum	Delta ( $\Delta V$ ) Vacuum
Test 1			
Test 2			
Average of $\Delta V$ of Test #1 & Test #2			
Difference in $\Delta V$ of Test #1 & Test #2			

Delta P ( $\Delta P$ ) = Difference between the initial and final pressure. The difference between  $\Delta P$  of test run #1 and  $\Delta P$  of test run #2 must be within 0.5 inches (12.5 mm) of H<sub>2</sub>O. If not, repeat test procedure until the change in pressure for two consecutive runs agrees within 0.5 inches (12.5 mm) of H<sub>2</sub>O. Vacuum Tests must meet the same criterion. The average of the two test runs must comply with the allowable pressure & vacuum changes of **3 inches** (75 mm) of H<sub>2</sub>O, gauge. If terminal where gasoline is loaded is subject to 40CFR Part 63 Subpart R, see allowable changes below.

Capacity of Tank (gallons)	Average $\Delta P$ or $\Delta V$
>2,499	1.0 inches (25 mm)
1,500 to 2,499	1.5 inches (38 mm)
1,000 to 1,499	2.0 inches (51 mm)
<1000	2.5 inches (64 mm)

Test Date \_\_\_\_\_ Test Start Time \_\_\_\_\_ Test Finish Time \_\_\_\_\_

For **Pressure Tests**, the cargo tank shall be pressurized to 18 inches (460 mm) of H<sub>2</sub>O, gauge. All compartments should be connected, otherwise each compartment shall be tested individually. Each test shall be of 5 minutes duration and two consecutive tests shall be run. For **Vacuum Tests**, the cargo tank shall be evacuated to 6 inches (150 mm) of H<sub>2</sub>O, gauge. Each test shall be of 5 minutes duration and two consecutive tests shall be run.

**Internal Vapor Valve Test** (Required for tank trucks loading at refineries or bulk terminals subject to 40CFR Part 63 Subpart R)

Initial Pressure (IP) \_\_\_\_\_ Final Pressure (FP) \_\_\_\_\_ Pressure Change (FP-IP) \_\_\_\_\_

For **Internal Vapor Valve Tests**, the cargo tank should be repressurized to 18 inches (460 mm) of H<sub>2</sub>O, gauge. Close all internal vapor valves to isolate the vapor return line and manifold from the tank. Relieve pressure in vapor return line & reseal. Record pressure after 5 minutes duration. The maximum allowable pressure increase is 5 inches (130 mm) of H<sub>2</sub>O.

**Certification**

The vapor collection system on the above gasoline cargo tank has been tested for vapor-tightness in accordance with EPA Reference Method 27 (40CFR 60 Appendix A) and 40CFR 63 Subpart R (if required). I certify the above gasoline cargo tank and its vapor collection system to be leak-free.

Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date of Test: \_\_\_\_/\_\_\_\_/\_\_\_\_  
 Testing Firm: \_\_\_\_\_ Phone # \_\_\_\_\_  
 Address: \_\_\_\_\_ City, State, Zip: \_\_\_\_\_