# Washington Oregon Gasoline Vapor Control Committee

*This form will be accepted by any State or Local Air Pollution Agency requiring compliance testing on gas station vapor recovery equipment within the states of Washington or Oregon*

***For Agency Use Only***

Reviewed by: _____

Date: _____

❑ Passed ❑ Failed

(Attach reasons for test failure to this form)

## Pressure Decay Test CARB Test Procedure TP-201.3 or Procedure in CARB Executive Order for Stage 2 Equipment

| Station Name: | Air Agency Registration No.: |
|---|---|
| Address: | |
| City, State, Zip: | |

| Testing Company Name: | Date/Time of Test: |
|---|---|
| Address: | Phone No.: |
| City, State, Zip: | |

**Type of Stage 1:** ❑ Coaxial ❑ Dual Point

**Type of Stage 2 system:** ❑ Balance ❑ Tokheim ❑ Wayne ❑ OPW ❑ Gilbarco ❑ Healy ❑ Other: _____

**Tanks Manifolded?** Yes ❑ No ❑ **Total Nozzles:** _____ **Tested with vapor cap:** ON ❑ or OFF ❑

| | Tank #1 | Tank #2 | Tank #3 | Tank #4 | Total if Manifolded |
|---|---|---|---|---|---|
| Number of Nozzles: | | | | | |
| Capacity: | | | | | |
| Gasoline Volume: | | | | | |
| Ullage: | | | | | |
| Percent Ullage: | % | % | % | % | % |

Minimum total ullage for each tank must be 1,000 gallons or 25% of tank capacity

Maximum total ullage from manifolded (all) tanks must not exceed 25,000 gallons

Date Test Equipment Calibrated: _____

Test Results

| | | Non-Manifolded | | | |
|---|---|---|---|---|---|
| | If Manifolded | Tank #1 | Tank #2 | Tank #3 | Tank #4 |
| Initial Pressure | 2.0" H2O | 2.0" H2O | 2.0" H2O | 2.0" H2O | 2.0" H2O |
| Pressure after 1 minute | " H2O | " H2O | " H2O | " H2O | " H2O |
| Pressure after 2 minutes | " H2O | " H2O | " H2O | " H2O | " H2O |
| Pressure after 3 minutes | " H2O | " H2O | " H2O | " H2O | " H2O |
| Pressure after 4 minutes | " H2O | " H2O | " H2O | " H2O | " H2O |
| Pressure after 5 minutes | " H2O | " H2O | " H2O | " H2O | " H2O |

Allowable pressure from table (TP-201.3 or Applicable CARB Exec Exhibit #): _____

Allowable pressure calculated (Formulas on back): _____

**Person conducting the test:**

| _____ | _____ | _____ |
|---|---|---|
| *Print Name* | *Signature* | *Date* |

**Tank owner or authorized representative:**

| _____ | _____ | _____ |
|---|---|---|
| *Print Name* | *Signature* | *Date* |

# 1 Calculating Results

## 1.1 Allowable Pressures for Balance Systems

For Phase II Balance systems, the allowable five-minute final pressure, with an initial pressure of two inches (2.0) of water column, shall be calculated as follows:

$P_f = 2e^{-760.490/V}$ If N = 1-6

$P_f = 2e^{-792.196/V}$ If N = 7-12

$P_f = 2e^{-824.023/V}$ If N = 13-18

$P_f = 2e^{-855.974V}$ If N = 19-24

$P_f = 2e^{-888.047/V}$ If N = 24

Where:

N = The number of affected nozzles:

For manifold systems, N equals the total number of nozzles.

For dedicated plumbing configurations, N equals the number of nozzles serviced by the tank being tested.

$P_f$ = The minimum allowable five-minute final pressure, inches $H_20$

V = The total ullage affected by the test, gallons

e = A dimensionless constant approximately equal to 2.718

2 = The initial starting pressure, inches $H_20$

## 1.2 Allowable Pressures for Assist Systems

For Phase II Vacuum Assist Systems, the allowable five-minute final pressure, with an initial pressure of two inches (2.0) of water column, shall be calculated as follows:

$P_f = 2e^{-500.887/V}$ If N = 1-6

$P_f = 2e^{-531.614/V}$ If N = 7-12

$P_f = 2e^{-562.455/V}$ If N = 13-18

$P_f = 2e^{-593.412/V}$ If N = 19-24

$P_f = 2e^{-624.483/V}$ If N = 24