

# 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:              |                    |
| City, State, Zip:     |                    |

**Type of Stage 1:** \_\_\_\_\_ **Type of Stage 2 system:** ☐ Balance ☐ Tokheim ☐ Wayne ☐ OPW ☐ Gilbarco  
☐ Coaxial ☐ Dual Point ☐ Healy ☐ Other: \_\_\_\_\_

**Tanks Manifolded?** Yes ☐ No ☐ **Total Nozzles:** \_\_\_\_\_ **Tested with vapor cap:** On ☐ Off ☐

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

Percent Ullage = ullage ÷ tank capacity x 100 (each tank ullage shall be greater than 500 but less than 25,000 gallons)

### Test Results

|                       | If Manifolded         | Non-Manifolded        |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                       |                       | Tank #1               | Tank #2               | Tank #3               | Tank #4               |
| Initial Pressure      | 2.0" H <sub>2</sub> O | 2.0" H <sub>2</sub> O | 2.0" H <sub>2</sub> O | 2.0" H <sub>2</sub> O | 2.0" H <sub>2</sub> O |
| Pressure after 1 min. | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    |
| Pressure after 2 min. | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    |
| Pressure after 3 min. | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    |
| Pressure after 4 min. | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    |
| Pressure after 5 min. | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    | " H <sub>2</sub> O    |

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

Allowable pressure calculated (Formulas on next page): \_\_\_\_\_

Person conducting the test:

|                     |                    |               |
|---------------------|--------------------|---------------|
| _____<br>Print Name | _____<br>Signature | _____<br>Date |
|---------------------|--------------------|---------------|

Tank owner or authorized representative:

|                     |                    |               |
|---------------------|--------------------|---------------|
| _____<br>Print Name | _____<br>Signature | _____<br>Date |
|---------------------|--------------------|---------------|

**Formulas →**

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

**1. Calculating Results**

**1.1 Allowable Pressures for Vacuum 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:

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

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

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

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

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

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  $H_2O$

V = The total ullage affected by the test, gallons

e = A dimensionless constant approximately equal to 2.718

2 = The initial starting pressure, inches  $H_2O$