



# MONTEREY BAY

Unified Air Pollution Control District  
serving Monterey, San Benito, and Santa Cruz counties

APCD USE ONLY

24580 Silver Cloud Court • Monterey, California 93940 • 831/647-9411 • FAX 831/647-8501

## VAPOR RETURN LINE VACUUM INTEGRITY TEST

### EXHIBIT 4 of ARB EO G-70-187 HEALY 400 ORVR

Renewal Testing

Engineering Startup/Evaluation

SOURCE INFORMATION			TEST COMPANY INFORMATION		
Facility (DBA)/Site Address:		Facility Representative/Title:	Company Name/Address		Company Representative
Print Name & DBA		Print Name	Print Name		Print Name
Street Address		Title	Street Address		Signature
City	Zip	Phone No.	City	Zip	Phone No.
District Test Witness:		<input type="checkbox"/> P/O <input type="checkbox"/> A/C Number:	Date of Test:		ICC Cert. No.
			Time of Test:		Phase II Manufacturer Cert. No.

#### Pressure Gauge Calibration Data

Make/Model: \_\_\_\_\_ Serial #: \_\_\_\_\_

Calibration date: \_\_\_\_\_  
(Calibration should be conducted at a frequency not to exceed 90 days)

Length of Vapor Return Line (N) = \_\_\_\_\_ ft  
The approximate length of 2 inch vapor return (VR) pipe from the dispensers to the central vacuum unit (CVU) to the nearest 20 feet.

Length Determined by: \*  
Blueprints  Inspection  Permit

\*If the length is described on the permit, no other value may be used.

Diameter of Vapor Return Line: 2"  3"

If the site contains 3" vapor return lines, multiply Calculated DP by 0.5.

If the system contains more than one Central Vacuum Unit (CVU) with separate piping, repeat test for each CVU and its associated piping.

#### Equations

1<sup>st</sup>) **Measured DP** = The observed change in vacuum level from the initial vacuum to the vacuum after 5 minutes, measured in inches of water column

2<sup>nd</sup>) **Calculated DP** = 800/N where N = Length of Vapor Return Line as noted at left.

NOTE:  
If the station contains 3 inch vapor return lines, multiply Calculated DP by 0.5.

3<sup>rd</sup>) **Compare the Measured DP to the Calculated DP**

If the Measured DP is greater than the Calculated DP then a vapor leak is evident and the system has failed.

#### Test Results

(A) Calculated DP = \_\_\_\_\_ "wc

Starting Vacuum Level: \_\_\_\_\_ "wc

1 Minute: \_\_\_\_\_ "wc

2 Minute: \_\_\_\_\_ "wc

3 Minute: \_\_\_\_\_ "wc

4 Minute: \_\_\_\_\_ "wc

Final Vacuum Level @ 5 Minutes: \_\_\_\_\_ "wc

(B) Measured DP = \_\_\_\_\_ "wc

Final Test Results: (A) > (B) Pass  (B) > (A) Fail