MONTEREY BAY AIR RESOURCES DISTRICT
24580 Silver Cloud Court, Monterey, CA 93940
(831) 647-9411, www.mbard.org

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 Name		Facility Representative Name	Company Name		Technician Name
Street Address		Title	Street Address		Signature
City	Zip	Phone No.	City	Zip	Phone No.
District Test Witness:		Permit 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

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

2nd) 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.

3rd) 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 ☐