# VAPOR RETURN LINE VACUUM INTEGRITY TEST

**ARB EO G-70-187, EXHIBIT 4, HEALY 400 ORVR NOZZLES ONLY**

<table>
<thead>
<tr>
<th>Facility Name:</th>
<th>A/C or PO Number:</th>
<th>Time of Test:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(Record exact time of test in order to demonstrate proper test sequencing as required in Attachment B)</td>
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</tbody>
</table>

## Pressure Gauge Calibration Data

<table>
<thead>
<tr>
<th>Make/Model:</th>
<th>Serial #:</th>
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Calibration date: __________

(Calibration should be conducted at a frequency not to exceed 90 days)

## Length of Vapor Return Line

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 value is described on the permit no other value can be used.

## Diameter of Vapor Return Line

- 2" □
- 3" □

If the site contains 3” vapor return pipes, 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.

## Equation

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

2nd) **Calculated DP** = \( \frac{800}{N} \)

Where: \( N \) = The approximate length of 2” vapor return pipe from the dispensers to the central vacuum unit to the nearest 20 feet.

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

<table>
<thead>
<tr>
<th>Measured DP=</th>
<th>calculated DP=</th>
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Starting Vacuum Level: ”

1 Minute: ”

2 Minute: ”

3 Minute: ”

4 Minute: ”

Final Vacuum Level@ 5 Minutes: ”

Final Test Results: Pass □ Fail □