

# Certification Report

Results of Evaluation Using “European Standard prEN 13160-2,  
“Leak Detection Systems - Part 2: Pressure and vacuum system”

**Secondary Containment Vacuum Sensing System**



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Name of Method Veeder-Root Secondary Containment Leak Detection system  
Version SCLD System

**Results of Evaluation Using  
“European Standard prEN 13160-2, “Leak Detection  
Systems – Part 2: Pressure and vacuum system”  
May 2003**

This form tells whether the vacuum interstitial testing method described below complies with the performance requirements of the US federal underground storage tank regulations. The evaluation was conducted by an independent testing organization for the manufacturer according to the procedures described in “European Standard prEN 13160-2, “Leak Detection Systems – Part 2: Pressure and vacuum system”, May 2003. This protocol was adopted by the National Work Group on Leak Detection Evaluations and may be used for the evaluation of vacuum based systems that monitor the interstice of either double-wall tanks or pipelines.

Tank owners using this leak detection system should keep this form on file to prove compliance with the federal regulations. Tank owners should check with State and local agencies to make sure this form satisfies their requirements.

**Method Description**

Name Veeder-Root Vacuum Interstitial Monitoring System  
Version Secondary Containment Leak Detection (SCLD) System  
Vendor Veeder-Root  
| 125 Powder Forest Drive, P.O. Box 2003  
(street address)  
Simsbury      CT      06070      (860) 651-2700  
(city)                (state)                (zip)                (phone)

**Evaluation Results**

Based on the results above this method (X) does ( ) does not meet the performance standards established by the European Committee for Standardization as specified in “European Standard prEN 13160-2, “Leak Detection Systems – Part 2: Pressure and vacuum system”, May 2003

**Pipeline and Reservoir Characteristics**

This protocol does not specify line or tank size based on the test conditions. It does not function as a conventional leak detector, but rather as a system to prevent the loss of product to the environment in as fail safe manner as possible. The protocol specifies that the interstitial space for a tank must be less than or equal to 8 cubic meters (2114 gal). The interstitial space for a line must be less than or equal to 20 cubic meters (2642 gal). There are no other size or design characteristic requirements.

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The sensor operating principle uses a series of pressure switches to control the pump and trigger and alarm with pump shutdown. The approximate air or vapor leak rate which would produce an alarm is specified as greater than  $85\pm15$  liters per hour for all systems. Leaks larger than this should produce an alarm.

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### **Temperature Effects**

This system was tested over a range of temperature conditions of -25 deg C to 70 deg C. The system (X) did or ( ) did not pass all of these tests.

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### **Effects of a Catastrophic Leak**

A catastrophic leak will cause an immediate shut down of the pump. (X) yes ( ) no

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### **Limitations on the Results**

The performance estimates above are only valid when:

- The vacuum source must maintain a flow rate of  $85\pm15$  liters per hour during monitoring.
- The method has not been substantially changed.
- The vendor's instructions for using the method are followed.

If this method is affected by other sources of interference. List these interferences below and give the ranges of conditions under which the evaluation was done. (Check None if not applicable.)

(X) None known

Manifolded tanks require that the interstice of the tanks be manifolded to a common vacuum pump.

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**> Safety disclaimer: This test procedure only addresses the issue of the method's ability to detect leaks. It does not test the equipment for safety hazards.**

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**Certification of Results**

I certify that the nonvolumetric tank tightness testing method was installed and operated according to the vendor's instructions. I also certify that the evaluation was performed according to the "European Standard prEN 13160-2, "Leak Detection Systems – Part 2: Pressure and vacuum system", May 2003, and that the results presented above are those obtained during the evaluation.

H. Kendall Wilcox, President  
(printed name)

Ken Wilcox Associates, Inc.  
(organization performing evaluation)

H. Kendall Wilcox  
(signature)

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June 9, 2004  
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