



## Diversified Products Manufacturing Inc.

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To whom it may concern,

Dri-sump® Containment Tightness Testing has met all national and state requirements for alternative vacuum testing for compliance, repairs and new installation. This method has been successfully evaluated by Ken Wilcox Associates to meet or exceed the EPA 3<sup>rd</sup> party approval requirements. It has also been published and evaluated as an acceptable method by the National Work Group on Leak Detection Evaluations. Documentation can be provided upon request or can be found at [www.Dri-sump.com](http://www.Dri-sump.com) or [info@dri-sump.com](mailto:info@dri-sump.com)

**Diversified Products Manufacturing, Inc.. (DPM) approves the alternative “Dri-sump®” containment testing method and has requested ACCENT to publish this document for all DPM containment products.**

### **Dri-sump® Test Procedure for DPM Products**

- Follow Diversified Products Manufacturing, Inc.’s routine maintenance. This includes cleaning the interior of the secondary containment including debris, water, fuel and any other fluids.
- Dri-sump® testing can only be performed by a tester meeting all state and federal qualifications, licenses and certifications. This includes the required annual certification for both the tester and test equipment through ACCENT Environmental, Inc.
- The secondary containment should be visually inspected for observable cracks or holes that would indicate a leak. This test assumes that electrical conduit and threaded fittings are not liquid tight. All electrical conduit threaded fittings must be temporarily sealed off so that no liquid or heavy aerosol vapor can enter through these points. The secondary containment fails the observation portion of the test and if applicable, the leaking areas should be repaired before Dri-sump® testing.
- The secondary containment is filled completely with Dri-sump® Vapor Aerosol. This can be visually observed or the Dri-sump® laser can be used to identify the level of Vapor Aerosol. A laser “line” indicates the level of Vapor Aerosol.
- The Dri-sump® Test may begin by connecting the hoses and Dri-sump® test equipment which creates the vacuum or negative pressure against the secondary containment bottom, sides and all penetrations points through the backfill. This equipment includes:
  - Air Pressure Generator (creates negative pressure/vacuum)
  - View Chamber (sealed vacuum chamber with view ports)
  - Vapor Stimulator Tube-VST (small precision slotted tube placed in the backfill)
  - Dri-sump® digital laser

- The laser is activated to illuminate the interior of the View Chamber creating a “dot” on the bottom or side of the View Chamber interior. The Dri-sump® test is certified in 60 seconds or less. A laser “dot” indicates the secondary containment is tight. A laser “beam or line” indicates the secondary containment fails the leak test.
- A confirmation test should always be conducted if the secondary containment initially fails the test.

### **Alternate for 0.005gph**

The Dri-sump® method is capable of testing to 0.005gph if applicable and meets the “Secondary and Spill Containment Test Methods” published by the National Work Group on Leak Detection Evaluations down to 0.05gph with the 60-second test.

To meet 0.005gph, the following data should be used when testing to this threshold.

0.0020 inch/15min (0.008 inch/hour) conversion from hydrostatic measurements to comply with digital laser used in Dri-sump patented method.

Failure, if rate exceeds 0.05 in 1 minute (60 seconds) (resolution/accuracy better than 0.0005

Failure, if rate exceeds 0.005 in 10 minutes (resolution/accuracy 0.001 to 0.002)

Failure, if rate exceeds 0.002 in 15 minutes (resolution/accuracy 0.003 to 0.003)

Resolution/accuracy is based on digital laser response to sub-micron particles of proprietary and environmentally safe water-based aerosol that is heavier than air.

PD = 100%, and PFA = 0%

95% confidence interval for PD is from 89.50% to 100%

The false alarm rate was determined to be 0%. The confidence interval for PFA is from 0 to 9.50%

Dri-sump meets or exceeds §2637(c).

**Dri-sump® can be used for all single and double-wall DPM products.**

**Dri-sump® can be used for Pre-burying and Post-bury new construction.**

**Dri-sump® can be used for repair testing.**

This document meets the following regulations as well all EPA regulations for secondary containment and spill test requirements:

California:

Secondary Containment Testing Requirements California Code of Regulations, Title 23, Division 3, Chapter 16, Section 2637 requires all secondary containment to be tested at least once every 36 months with other requirements for new installations and repairs. (see §2637 requirements in this document)

Connecticut:

Department of Energy and Environmental Protection-Underground Storage Tank System Management, Connecticut Regulations §§ 22a-449(d)-1—22a-449(d)-113 (Sec. 22a-449(d)-102 which states: The owner or operator shall use a qualified individual or company who has the expertise to perform

and document the results of the testing required by this subdivision and shall ensure that the tests required by this subdivision use the best available technology or that such tests are conducted in accordance with the manufacturer's guidelines and standards. If there are no manufacturer's guidelines or standards, the owner or operator shall ensure that such tests are conducted in accordance with an applicable method specified in an industry code or engineering standard. If there are no applicable manufacturer's guidelines or standards, industry codes, or engineering standards, the owner or operator shall ensure that such tests using a test method that, before use, is approved by a registered professional engineer licensed in the state of Connecticut.

Delaware:

Title 7 Natural Resources & Environmental Control, Delaware Administrative Code; 1351

Underground Storage Tank Systems: "Spill containment devices... in accordance with Part C, subsection 1.21.9 or

**manufacturer's specifications...**"

Thank you,

A handwritten signature in black ink that reads "John Rowe". The signature is written in a cursive, flowing style.

*John Rowe*

*CEO*

*Diversified Products MFG.*

*Johnr@dpm-llc.com*

