Results of U.S. EPA Alternative Evaluation **Liquid Level Sensor**

This form documents the performance of the liquid level sensor described below. The evaluation was conducted by the equipment manufacturer or a consultant to the manufacturer according to the U.S. EPA's requirements for alternative protocols. The full evaluation report also includes a report describing the method, a description of the evaluation procedures, and a summary of the test data. The results forms were modified from the Vapor-Phase Out-of-Tank Product Detectors.

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	PMP	Corporation

Version 62303 Sensors for use with Veeder-Root TLS-450 series, TLS-350 series, TLS-300 series, TLS-PC, ILS-350, Simplicity, Gilbarco EMC series, EMC Basic series, EMC-PC, Red Jacket ProMax and ProPlus

Vendor PMP Corporation

(Name of Manufacturer)
25 Security Drive

(Address)				
Avon	CT	06001	800-243-6628	
(City)	(State)	(Zip Code)	(Phone)	

Evaluation Parameters

The sensors listed above were tested for their abilities to respond to liquids when the sensors are installed in underground storage tank applications. The following parameters were determined from this evaluation.

<u>Threshold (Lower Detection Limit)</u> - The smallest product thickness that the detector can reliably detect.

<u>Precision (standard deviation)</u> - Agreement between multiple measurements of the same product level.

<u>Detection Time</u> - Amount of time the detector must be exposed to product before it responds.

<u>Fall Time</u> - Amount of time before the detector stops responding after being removed from the product.

Specificity - Types of products that the sensor will respond to.

Sensor Name: <u>62303 Dual Point B</u> Version Number(s):					
Evaluation Results					
Note: If the test data can be prese may select to present the informa these forms.		a table which ca			
<u>Parameter</u>	CaCL in Water	Product Propylene Glycol in Water	Ethylene Glycol in Water		
Height to Alarm – Lower Position (inches)	1.485	<u>1.594</u>	<u>1.608</u>		
Height to Alarm – Upper Position (inches)	13.041	13.249	13.237		
Detection Time (hh:mm:ss)	< 1 second	< 1 second	< 1 second		
Fall Time (hh:mm:ss)	NA	NA	NA		
Additional Limitations or Consider > Safety Disclaimer: This test p					
methods ability to detect leaks. hazards.	It does not test t	he equipment	for safety		
Certification of Results					
I certify that the interstitial monitor vendor's operating instructions. It is methods described in the attached Monitors, and that the results presevaluation.	also certify that the discount of the discount	e evaluation was Test Procedure	s performed using s for Interstitial		
Jeffrey S Williams	Packe	Packer Engineering Group			
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(signature)	(city, stat	e, zip)			
4/25/2017	630-70	630-701-7703			
(date)	(phone n	umber)			