

**UNDERGROUND STORAGE TANK
MONITORING SYSTEM CERTIFICATION FORM (Page 2 of 6)**

VI. INVENTORY OF EQUIPMENT CERTIFIED

A separate Monitoring System Certification Form must be prepared for each monitoring system control panel.

Make of Monitoring System Control Panel	Model of Monitoring System Control Panel	Software Version Installed
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Check the appropriate boxes to indicate specific equipment inspected/serviced.

Monitoring Device Used	Device Model #	Monitoring Device Used	Device Model #
TANK ID: <i>(By tank number, stored product, etc.)</i>		TANK ID: <i>(By tank number, stored product, etc.)</i>	
<input type="checkbox"/> In-Tank Gauging (SW Tank)		<input type="checkbox"/> In-Tank Gauging (SW Tank)	
<input type="checkbox"/> Annular Space or Vault Sensor		<input type="checkbox"/> Annular Space or Vault Sensor	
<input type="checkbox"/> VPH Sensor		<input type="checkbox"/> VPH Sensor	
Product Piping		Product Piping	
<input type="checkbox"/> Mechanical LLD		<input type="checkbox"/> Mechanical LLD	
<input type="checkbox"/> Electronic LLD		<input type="checkbox"/> Electronic LLD	
<input type="checkbox"/> VPH Sensor (Piping)		<input type="checkbox"/> VPH Sensor (Piping)	
<input type="checkbox"/> Sump Sensor		<input type="checkbox"/> Sump Sensor	
<input type="checkbox"/> VPH Sensor (Sump)		<input type="checkbox"/> VPH Sensor (Sump)	
Fill Piping		Fill Piping	
<input type="checkbox"/> VPH Sensor (Piping)		<input type="checkbox"/> VPH Sensor (Piping)	
<input type="checkbox"/> Sump Sensor		<input type="checkbox"/> Sump Sensor	
<input type="checkbox"/> VPH Sensor (Sump)		<input type="checkbox"/> VPH Sensor (Sump)	
Vent Piping		Vent Piping	
<input type="checkbox"/> VPH Sensor (Piping)		<input type="checkbox"/> VPH Sensor (Piping)	
<input type="checkbox"/> Sump Sensor		<input type="checkbox"/> Sump Sensor	
<input type="checkbox"/> VPH Sensor (Sump)		<input type="checkbox"/> VPH Sensor (Sump)	
Vapor Recovery Piping		Vapor Recovery Piping	
<input type="checkbox"/> VPH Sensor (Piping)		<input type="checkbox"/> VPH Sensor (Piping)	
<input type="checkbox"/> Sump Sensor		<input type="checkbox"/> Sump Sensor	
<input type="checkbox"/> VPH Sensor (Sump)		<input type="checkbox"/> VPH Sensor (Sump)	
Monitoring Device Used	Device Model #	Monitoring Device Used	Device Model #
TANK ID: <i>(By tank number, stored product, etc.)</i>		TANK ID: <i>(By tank number, stored product, etc.)</i>	
<input type="checkbox"/> In-Tank Gauging (SW Tank)		<input type="checkbox"/> In-Tank Gauging (SW Tank)	
<input type="checkbox"/> Annular Space or Vault Sensor		<input type="checkbox"/> Annular Space or Vault Sensor	
<input type="checkbox"/> VPH Sensor		<input type="checkbox"/> VPH Sensor	
Product Piping		Product Piping	
<input type="checkbox"/> Mechanical LLD		<input type="checkbox"/> Mechanical LLD	
<input type="checkbox"/> Electronic LLD		<input type="checkbox"/> Electronic LLD	
<input type="checkbox"/> VPH Sensor (Piping)		<input type="checkbox"/> VPH Sensor (Piping)	
<input type="checkbox"/> Sump Sensor		<input type="checkbox"/> Sump Sensor	
<input type="checkbox"/> VPH Sensor (Sump)		<input type="checkbox"/> VPH Sensor (Sump)	
Fill Piping		Fill Piping	
<input type="checkbox"/> VPH Sensor (Piping)		<input type="checkbox"/> VPH Sensor (Piping)	
<input type="checkbox"/> Sump Sensor		<input type="checkbox"/> Sump Sensor	
<input type="checkbox"/> VPH Sensor (Sump)		<input type="checkbox"/> VPH Sensor (Sump)	
Vent Piping		Vent Piping	
<input type="checkbox"/> VPH Sensor (Piping)		<input type="checkbox"/> VPH Sensor (Piping)	
<input type="checkbox"/> Sump Sensor		<input type="checkbox"/> Sump Sensor	
<input type="checkbox"/> VPH Sensor (Sump)		<input type="checkbox"/> VPH Sensor (Sump)	
Vapor Recovery Piping		Vapor Recovery Piping	
<input type="checkbox"/> VPH Sensor (Piping)		<input type="checkbox"/> VPH Sensor (Piping)	
<input type="checkbox"/> Sump Sensor		<input type="checkbox"/> Sump Sensor	
<input type="checkbox"/> VPH Sensor (Sump)		<input type="checkbox"/> VPH Sensor (Sump)	

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Monitoring Device Used	Device Model #	Monitoring Device Used	Device Model #
VENT / TRANSITION SUMP ID:		VENT / TRANSITION SUMP ID:	
<input type="checkbox"/> Sump Sensor		<input type="checkbox"/> Sump Sensor	
<input type="checkbox"/> VPH Sensor		<input type="checkbox"/> VPH Sensor	
UDC ID:		UDC ID:	
<input type="checkbox"/> Electronic Sensor		<input type="checkbox"/> Electronic Sensor	
<input type="checkbox"/> Mechanical Device		<input type="checkbox"/> Mechanical Device	
<input type="checkbox"/> VPH Sensor		<input type="checkbox"/> VPH Sensor	
UDC ID:		UDC ID:	
<input type="checkbox"/> Electronic Sensor		<input type="checkbox"/> Electronic Sensor	
<input type="checkbox"/> Mechanical Device		<input type="checkbox"/> Mechanical Device	
<input type="checkbox"/> VPH Sensor		<input type="checkbox"/> VPH Sensor	
UDC ID:		UDC ID:	
<input type="checkbox"/> Electronic Sensor		<input type="checkbox"/> Electronic Sensor	
<input type="checkbox"/> Mechanical Device		<input type="checkbox"/> Mechanical Device	
<input type="checkbox"/> VPH Sensor		<input type="checkbox"/> VPH Sensor	
UDC ID:		UDC ID:	
<input type="checkbox"/> Electronic Sensor		<input type="checkbox"/> Electronic Sensor	
<input type="checkbox"/> Mechanical Device		<input type="checkbox"/> Mechanical Device	
<input type="checkbox"/> VPH Sensor		<input type="checkbox"/> VPH Sensor	
Other Monitored Component ID:		Other Monitored Component ID:	
<input type="checkbox"/> Other (Specify in section VII.)		<input type="checkbox"/> Other (Specify in section VII.)	
Other Monitored Component ID:		Other Monitored Component ID:	
<input type="checkbox"/> Other (Specify in section VII.)		<input type="checkbox"/> Other (Specify in section VII.)	
Other Monitored Component ID:		Other Monitored Component ID:	
<input type="checkbox"/> Other (Specify in section VII.)		<input type="checkbox"/> Other (Specify in section VII.)	

Include information for every underground storage tank component monitored by this monitoring system control panel. If the monitoring system control panel monitors more components than this form accommodates, additional copies of these pages may be attached.

VII. COMMENTS

Use this section to provide additional comments about the inventory of the equipment certified.

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MONITORING SYSTEM CERTIFICATION FORM (Page 4 of 6)**

VIII. MONITORING SYSTEM AND PROGRAMMING

<i>This section must be completed if a monitoring panel is used to perform leak detection monitoring.</i>	Y	N	NA
Are the visual and audible alarms operational?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all sensors visually inspected for kinks and breaks in the cables and for residual buildup to ensure that floats move freely, functionally tested, and confirmed operational?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was monitoring system set-up reviewed to ensure proper settings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was the monitoring panel's backup battery visually inspected, functionally tested, and confirmed operational?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does the flow of fuel stop at the dispenser if a leak is detected in the under-dispenser containment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does the turbine automatically shut down if the piping secondary containment monitoring system fails to operate or is electrically disconnected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Which sensors initiate positive shut down? (Check all that apply.) <input type="checkbox"/> Sump <input type="checkbox"/> Under-Dispenser Containment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If alarms are relayed to a remote monitoring station, is all communications equipment (e.g., modem) operational?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

For any answer of "N" above, describe in Section IX how and when these deficiencies were or will be corrected.

IX. COMMENTS

X. IN-TANK GAUGING TESTING

<input type="checkbox"/> Check this box if tank gauging is used only for inventory control. (Do not complete this section.)			
<input type="checkbox"/> Check this box if NO tank gauging equipment is installed. (Do not complete this section.)			
<i>This section must be completed if in-tank gauging is used to perform leak detection monitoring.</i>	Y	N	NA
Has all input wiring been inspected for kinks and breaks in the cables and for proper entry and termination, including testing for ground faults?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all in-tank gauging probes visually inspected for damage and residue buildup to ensure that floats move freely, functionally tested, and confirmed operational?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was accuracy of system's product level readings tested?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was accuracy of system's water level readings tested?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all probes reinstalled properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all items on the equipment manufacturer's maintenance checklist completed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

For any answer of "N" above, describe in Section XI how and when these deficiencies were or will be corrected.

XI. COMMENTS

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XII. LINE LEAK DETECTOR TESTING

Check this box if line leak detectors (LLD) are **NOT** installed. (Do not complete this section.)

This section must be completed if LLDs are installed.

	Y	N	NA
Was a leak simulated to verify LLD performance? (Check all that apply.) Simulated leak rate verified: <input type="checkbox"/> 3 GPH <input type="checkbox"/> 0.1 GPH <input type="checkbox"/> 0.2 GPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was the testing apparatus properly calibrated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For emergency generator tank systems, does the LLD create an audible and visual alarm when a leak is detected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For mechanical LLDs, does the LLD restrict the flow through the pipe when a leak is detected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For electronic LLDs, does the turbine automatically shut off when a leak is detected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For electronic LLDs, have all accessible wiring connections been visually inspected for kinks and breaks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all items on the equipment manufacturer's maintenance checklist completed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all LLDs confirmed operational within regulatory requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

For any answer of "N" above, describe in Section XIII how and when these issues were or will be corrected.

XIII. COMMENTS

XIV. VACUUM / PRESSURE / HYDROSTATIC MONITORING EQUIPMENT TESTING

Check this box if VPH monitoring is **NOT** used. (Do not complete this section.)

This section must be completed if VPH monitoring is used to perform leak detection monitoring.

System Type (Mark all that apply.) Vacuum Pressure Hydrostatic

Sensor ID	Component(S) Monitored By This Sensor	Sensor Functionality Test	Interstitial Communication Test
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

How was interstitial communication verified? Simulated Leak at Far Ends of the Interstitial Space Visual Inspection
 Other (Describe the method in section XV below.) Gauge

Was the vacuum or pressure restored to operating levels in all interstitial spaces? Yes No (Describe the reason in section XV below.)

For any answer of "Fail" above, describe in Section XV how and when these issues were or will be corrected.

XV. COMMENTS

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XVI. MONITORING SITE PLAN

Date site map was prepared:

If you already have a site plan that shows all required information, you may include it, rather than this page, with your Monitoring System Certification Form. The site plan must show the general layout of tanks and piping and clearly identify locations of the following equipment, if installed: 1) monitoring system control panels; 2) in-tank liquid level probes (if used for leak detection); 3) devices monitoring tank annular spaces or vault; 4) devices monitoring product piping; 5) devices monitoring fill piping; 6) devices monitoring vent piping; 7) devices monitoring vapor recovery piping; 8) devices monitoring vent/transition sumps; 9) devices monitoring under-dispenser containment; 10) line leak detectors; and 11) devices monitoring any other secondary containment areas.

LEGEND