Annual Leak Detection Equipment Operability Check (Interstitial Sensors)



Inspect the leak detection equipment in accordance with manufacturer guidelines and PEI RP 1200, "Recommended Practices for the Testing and Verification of Spill, Overfill, Leak Detection, and Secondary Containment Equipment at UST Facilities". If the manufacturer's instructions do not require a condition to be implemented that triggers an alarm, then you must also trigger an alarm condition. Print the alarm reports triggered during the operability check and attach to this form.

If the equipment manufacturer (e.g., Veeder Root) requires a training certification to conduct operability checks of there equipment then you must be certified.

Results must be maintained for at least one year at the UST site or the tank owner or operator's place of business and be readily available for inspection.

UST FACILITY																							
Owner / Operator Name						Facility Name										Facili	ty ID						
Facility Street Address						Facility City										Coun	ty						
CONTRACTOR/PERSON CO	EC1	ΓΙΟΝ	IS																				
Company Name								Pho	ne			E	Email a	nail address									
		ded on this form documents the UST system equipment was chary standards listed in 15A NCAC 2N .407/.0501 and/or 15A NCAC																					
Drint Name of paragraph and usting		-	Cianat	ura af m			luation	inana	ation				Inor	ootion	Data								
Print Name of person conducting Sensor Location:		Dispe	neer			Die	Signat penser	ure or p	Dersoi		lucting one	inspe		Dien	enser			ection	enser				
Consor Ecodion.		•					rensei I Bucke	^ t			l Bucke	ıt.			Bucket	t				+			
	1= '				•	k Inters			•				•			☐ Spill Bucket ☐ Tank Interstice							
		Tank	nk Top and her Sumps			Tan	Tank Top and Other Sumps			Tank Interstice Tank Top and Other Sumps				Tank Interstice Tank Top and Other Sumps				Tank Top and Other Sumps					
Enter Location #/Description:	l '			#:				#:			-	#:				#:							
Tank Volume (gallons):																							
Product:																							
Sensor Manufacturer/Model:																							
Towns of Oscions	Discriminating			☐ Discriminating			ting			criminat	ting			riminati	ing								
Type of Sensor	Non- Discriminating			Nor		tina		Non-Discriminating				Non- Disci	riminati	ina		Non-Discriminating							
Is Sensor Position sensitive? (N/A if				Yes	Discriminating Yes			Yes	es No			Yes		 		Yes No							
No and Pos. Sens. not required)	H	N/A Wate	r			N/A Wat	tor		무	N/A	tor			N/A	or.		무	N/A Wat					
Test Liquid		Produ					roduct			Water Product								Proc					
Is the ATG console clear of any active or recurring warnings or alarms regarding the leak sensor? If the sensor is in alarm and functioning, indicate why.		Yes		No		Yes		No		Yes		No		Yes		No		Yes		No			
Is the sensor alarm circuit operational?		Yes		No		Yes		No		Yes		No		Yes		No		Yes		No			
Has sensor been inspected and in good operating condition?		Yes		No		Yes		No		Yes		No		Yes		No		Yes		No			
If Position Sensitive, does sensor alarm when raised off bottom?		Yes N/A		No		Yes N/A		No		Yes N/A		No		Yes N/A		No		Yes N/A		No			
When placed in the test liquid, does the sensor trigger an alarm?		Yes		No		Yes		No		Yes		No		Yes		No		Yes		No			
(If sensor cannot be removed, e.g., Emco Spill bucket sensor then N/R)		N/R				N/R				N/R				N/R				N/R					
When an alarm is triggered, is the sensor properly identified on the ATG console?		Yes		No		Yes		No		Yes		No		Yes		No		Yes		No			
Sensor mounted at the lowest point of interstice (e.g., within 2 inches of		Yes		No		Yes		No		Yes		No		Yes		No		Yes		No			
containment sump bottom) (Liquid detecting float sensors only)		N/A				N/A				N/A				N/A				N/A					
Alarm report attached?		Yes		No		Yes		No		Yes		No		Yes		No		Yes		No			
Any "No" answer indicates the senso	r fai	ils the te	est.																				
Test Results		Pass		Fail		Pass		Fail		Pass		Fail		Pass		Fail		Pass		Fail			
NORTH CAROLINA DE	PAR	TMENT	ΓOF	ENVIR	NNC	IENT/	AL QUA	LITY.	DIVIS	ION O	F WAS	STE M	IANAC	SEMEN"	T. UST	SECT	ION						

Annual Leak Detection Equipment Operability Check (Automatic Tank Gauge / Spill Bucket Visual Gauge)



Inspect the leak detection equipment in accordance with manufacturer guidelines and PEI RP 1200, "Recommended Practices for the Testing and Verification of Spill, Overfill, Leak Detection, and Secondary Containment Equipment at UST Facilities".

If the equipment manufacturer (e.g., Veeder Root) requires a training certification to conduct operability checks of there equipment then you must be certified.

Results must be maintained for at least one year at the UST site or the tank owner or operator's place of business and be readily available for inspection. **UST FACILITY** Owner / Operator Name **Facility Name** Facility ID **Facility Street Address** Facility City County CONTRACTOR/PERSON CONDUCTING INSPECTIONS Company Name Phone Email address I certify, under penalty of law, that the testing data provided on this form documents the UST system equipment was checked in accordance with the manufacturer's guidelines and the applicable national industry standards listed in 15A NCAC 2N .407/.0501. **Inspection Date** Print Name of person conducting inspection Signature of person conducting inspection Tank Volume (gallons): Tank Diameter (inches): Product: Note: If the facility is using the ATG to obtain data for SIR then the ATG Automatic Tank Gauge (ATG) □ N/A operability check must be completed. ATG Brand and Model Using tank stick measure fuel level. Stick value agrees with Yes No ☐ Yes No Yes No Yes No Fuel float level displayed on console? Using tank stick measure water level. Stick value agrees Yes No Yes No Yes No Yes No П with Water float level displayed on console? 3. After removing the ATG probe from the tank, has it been Yes No ☐ Yes No Yes No Yes No inspected, and any damaged or missing parts replaced? Franklin Fueling INCON ATGs: Volume Qualifier is 14% or ☐ Yes No ☐ Yes No Yes No Yes No greater? (Attach printout) (Skip question for other ATGs) **Magnetostrictive Probes** Float moves freely on the stem without binding? Yes No Yes No Yes No Yes No Inch level (to nearest 1/8 inch) from bottom of stem when 90% alarm is triggered. Inch level at which the overfill alarm activates corresponds ☐ Yes No ☐ Yes No ☐ Yes No ☐ Yes No with value programmed in the gauge? Inch level (to nearest 1/8 inch) from bottom when the water float first triggers an alarm or warning. Inch level at which the water float alarm activates Yes No Yes No Yes No Yes No corresponds with value programmed in gauge? Alarm reports attached? Yes Yes No Yes No \Box Yes No No **Capacitance Probes** 11. Initiated diagnostic check of probes from console? Yes No Yes No Yes No Yes No 12. Diagnostic check does not show any open or shorted segments in measurement section of probe? (Attach Yes No Yes No Yes No Yes No diagnostic report to form) If any answers in Lines 1, 2, 3 (all ATGs) or 4 (INCON); 5, 7, 9 or 10 (for Mag Probes); 11 or 12 (for Cap Probes) are "No", the system has failed the test **Test Results** Pass Fail **Pass** Fail Pass Fail Pass Fail Spill Bucket Interstice Visual Gauge Gauge manufacturer No Yes □ No Yes Gauge removed and visually inspected, and no damage noted? □ Yes Yes □ No □ No O-ring/seals on entry fitting of gauge are present and not ☐ Yes □ No ☐ Yes □ No ☐ Yes ☐ Yes ☐ No □ No damaged? Float mechanism moves freely up and down? Yes No Yes □ No Yes □ No Yes No Indicator arrow rotates when float moved up and down (Franklin Fueling, Fairfield Ind and OPW) or Indicator shows red, "TEST", ☐ Yes ☐ No ☐ Yes □ No ☐ Yes □ No ☐ Yes ☐ No when float in up position and green, "Ok" when float in down position (Emco Wheaton)?

Pass

☐ Fail

Pass

□ Pass

Pass

Test Results (Any "No" answer indicates the equipment fails.)

Annual Leak Detection Equipment Operability Check (Mechanical and Electronic Line Leak Detectors)

DEO
NOTTH CAROLINA Department of Environmental Quality

Page 3	(Mech	anica	l and	l El	ectro	nic L	ine l	Lea	k De	tecto	ors)						NORTH CAROLINA Department of Environ	mental Quality	~	
UST FACILITY																				
Owner / Operator Name	Facility Name												Facility ID							
Facility Street Address	Facility City												County							
CONTRACTOR/PERSON CONDUCTING	ONS																			
Company Name				Phor	ne				Emai	l addr	ess									
I certify, under penalty of law, that the testing manufacturer's guidelines and the applicable nation											uipme	ent v	was ch	ecked	in a	ccor	dance	with	the	
Print Name of person conducting inspection			Sic	anatı	ure of p	erson	cond	ucting inspection							Insi	pection Date				
Tank #:			<u> </u>		<u>'</u>				<u> </u>											
Tank Volume:																				
Product:																				
Leak Detector Manufacturer:																				
Leak Detector Model:				1_								_				_				
Type of Leak Detector:	☐ MLI			닏	MLLD			-	MLLE			-	MLLD			Щ	MLLD			
MLLD (ALL PRESSURE MEASUREMENT A	ELL		Dele	<u> </u>	ELLD				ELLD	,			ELLD				ELLD			
STP Full Operating Pressure			r SIG	<u>,</u>																
Check Valve Holding Pressure																				
Line Resiliency (ml) (line bleed back volume																				
as measured from check valve holding pressure to 0 psig)																				
Step Through Time in Seconds (time the MLLD hesitates at metering pressure before going to full operating pressure as measured from 0 psig with no leak induced on the line)																				
Metering Pressure (STP pressure when simulated leak rate, 3 gph at 10 psig)																				
Opening Time in Seconds (the time the MLLD opens to allow full pressure after simulated leak is stopped)																				
Does the STP pressure remain at or below the metering pressure for at least 60 seconds when the simulated leak is induced?	☐ Ye	s [] No		Yes		No		Yes		No		Yes		No		Yes		No	
Does the leak detector reset (trip) when the line pressure is bled off to zero psig?	☐ Ye	s [] No		Yes		No		Yes		No		Yes		No		Yes		No	
Does the STP properly cycle on/off under normal fuel system operation conditions?	☐ Ye		_				No		Yes		No		Yes		No		Yes		No	
A "No" answer to any of the above questions indicate ELLD (ALL PRESSURE MEASUREMENTS A					t.															
•		ADE IN	PSIC	<i>⊃)</i> ⊤				I				T T								
STP Full Operating Pressure																				
How many test cycles are observed before alarm/shutdown occurs?																				
Does the simulated leak cause an alarm? (If "No" then leak detector fails)	☐ Ye								Yes		No		Yes		No		Yes		No	
Does the simulated leak cause an STP shutdown?	☐ Ye	_] No		Yes N/A		No		Yes N/A		No		Yes N/A		No		Yes N/A		No	
ELLD alarm reports attached? (If "No" then leak detector fails)	☐ Ye			_	Yes		No		Yes		No		Yes		No		Yes		No	
Test Results	☐ Pas	s [Fail		Pass		Fail		Pass		Fail		Pass		Fail		Pass		Fail	

Annual Leak Detection Equipment Operability Check (Groundwater/Vapor Monitoring and Handheld LD Equipment)



Inspect the leak detection equipment in accordance with manufacturer guidelines and PEI RP 1200, "Recommended Practices for the Testing and Verification of Spill, Overfill, Leak Detection, and Secondary Containment Equipment at UST Facilities".

Results must be maintained for at least one year at the UST site or the tank owner or operator's place of business and be readily available for inspection.

		. ,																		
UST FAC	CILITY																			
Owner / Op	erator Name	acility Na	me		Fac	Facility ID														
Facility Stre	eet Address	acility Cit	у			Coi	unty													
CONTRA	CTOR/PERSON COND	IS								•										
Company N	lame	Phone Email address																		
	under penalty of law, that the urer's guidelines and the appli							pmen	t was c	hecke	ed in a	accoi	dance	with t	ne					
Print Na	me of person conducting inspe	Signatur		In	spect	ion Da	ite	_												
	Та	nk #:																		
	Tank	Size:																		
	Pro	duct:																		
		N/A	Yes	No	Yes		No	Yes	3	No	١,	Yes	N	10	١	'es	No)		
Ground- water / Vapor Monitoring	Handheld monitoring equipment operable and serviceable?]				С							
	Electronic monitoring equipment operable and calibrated?					[
	Equipment alarm and battery backup functional?					[]											
	Monitoring equipment configuration checked and within specifications?					[]											
	Probes and sensors have no residual buildup?					[]											
	Floats move freely, the shaft is not damaged, and cables are free of kinks/breaks?					[
	Alarm tested and operable?]											
-	swer indicates the Ground-wa	iter o	Vapor mor	itoring equi			est.				1									
Test Resu	ılts		☐ Pass	☐ Fail	Pas:	s 🗌	Fail	☐ Pa	ss [Fail	י 🗆 ו	Pass		Fail		Pass	F	ail		
	ge Stick (Statistical Reconciliation and Manu ging)	ıal	□ N/A		Note: If must be		•	using th	ne ATG	to obtai	in dat	a for SII	R ther	n the A	TG o	perab	ility che	ck		
warped or b			☐ Yes	☐ No	☐ Yes	· 🗆	No	☐ Ye	es [No		Yes		No		Yes		lo		
Tank gauge stick has plastic button on bottom of stick?			☐ Yes	☐ No	☐ Yes		No	□ Y	es [No		Yes		No		Yes	□ N	0		
Vacuum/F Equipmer	Pressure Monitoring nt	□ N/A																		
calibration h	essure gauge is functional and nas been checked?	☐ Yes	☐ No	☐ Yes		No	☐ Ye		No		Yes		No		Yes	□ N	No.			
	swer indicates the Hand-held						1		- ·	ь.										
Test Resu	iits and explanation of failing resu	Pass	☐ Fail	Pas:		Fail	│∐ Pa	ISS [Fail	י ען	Pass	r	ail		Pass	Fa	lii			
	and explanation of failing resu	iio ai i	a ouiei pioi	ona notec	auring III	υρσυ ιί	<i>a</i> 1.													