

Memo

Underground Storage Tank Section of the Waste and Underground Tank Management Bureau PO Box 200901

Helena, MT 59620-0901 Phone 406-444-5300 Fax 406-444-1374

To: Montana Licensed Inspectors

From: Brett Smith

Date: February 1, 2006

Re: Compliance Inspection Reports – Auto Dialer Documentation

The department's new inspection forms do not ask for some information we need if a facility is operating while unmanned and does not have automatic shutdown capabilities. We have neglected to ask if the system has an auto dialer.

Until the department prints new forms, we ask that inspectors to supply this information. We will contact you if the information is not evident on the inspection report.

The clearest way to supply the information is as follows:

- For those auto dialers that are connected to a PLLD or ELLD, document on Page 7b line 4 of the existing form the existence and use of an auto dialer for pressurized piping leak detection alarm notification. Answer this question and write in "auto dialer" on Line 4 is used to satisfy the "within one hour" leak detection alarm notification requirement.
- For those auto dialers that are connected to double-walled interstitial sensors, document on Page 8b line 6 of the existing form the existence and use of an auto dialer for double-walled piping leak detection alarm notification (pressurized, US suction or European suction). Answer this question and write in "auto dialer" on Line 6 is used to satisfy the leak detection alarm notification requirement.

The diagram on the next page should help to clarify what we need when inspecting piping systems with auto dialers.

Thank you for your help, Brett Smith, UST Program If your system has an auto dialer that is used to notify an operator or other responsible person of an alarm condition AND the auto dialer is attached to a PLLD or ELLD, answer this question and write in "auto dialer" after the text.

L	eak Detection for Piping	Po	Page 7b			
	essurized piping systems require <u>two</u> methods of leak detection			Set 1 and at	least one me	thod from
26	 Pressurized piping systems include gravity flow and some since PRESSURIZED PIPING: A METHOD IT 			EACH SET		
Fc	acility Name Facility ID					
US	ST Information: If a question does not apply, leave it blan	k.				
	ET 1- Choose one. Catastrophic (≥ 3.0 gph) product pipe ak detection.	MT TANK #	MT TANK #	MT TANK #	MT TANK #	MT TANK #
1	Is the mechanical line leak detector (MLLD) present and operational? Make and Model:	YES NO	YES NO	YES NO	YES NO	YES NO
2	Is an electronic ALLD (ELLD) present and operational? Make and Model:	YES NO	YES NO	YES NO	YES NO	YES NO
	3 Is the ELLD an Automatic Shut-Off Device?	YES NO	YES NO	YES NO	YES NO	YES NO
	-4 Is the ELLD a Continuous Alarm System?	YES NO	YES NO	YES NO	YES NO	YES NO
	5 Has the MLLD or ELLD been tested for functionality at least annually or as instructed by manufacturer?	YES NO	YES NO	YES NO	YES NO	YES NO
	ls continuous interstitial monitoring used for line leak detection?	YES NO	YES NO	YES NO	YES NO	YES NO
	within an hour? (Sensor at low point on sump)	YES NO	YES NO	YES NO	YES NO	YES NO
SI	ET 2 - Choose one. Precision test or monthly method.					
8	Is an annual precision 0.1 gph Line Tightness Test (LTT) conducted?	YES NO	YES NO	YES NO	YES NO	YES NO
	9 Is the precision 0.1 gph LTT conducted by the electronic LLD?	YES NO	YES NO	YES NO	YES NO	YES NO
	ls the precision 0.1 gph LTT conducted using an NWGLDE approved method?	YES NO	YES NO	YES NO	YES NO	YES NO
	11 Indicate date and results of the most recent test.					
12	Are monthly 0.2 gph electronic LLD tests conducted?	YES NO	YES NO	YES NO	YES NO	YES NO
	If question #12 is YES, are passing 0.2-gph ELLD tests available for the past 12 months?	YES NO	YES NO	YES NO	YES NO	YES NO
	If question #13 is marked NO, circle the months in which passing LD tests are NOT available. 1=January	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9
15	Is the console accessible and functional?	YES NO	YES NO	YES NO	YES NO	YES NO
16	If questions #8 and #12 are NO, check what monthly method is used. Complete the appropriate inspection page.	UM GWM	UM GWM	□ VM □ GWM	□ VM □ GWM	UM GWM
	VM=Vapor monitoring SIR = Statistical Inventory Reconciliation GW = Groundwater monitoring ISM= Interstitial Monitoring		☐ ISM	☐ SIR ☐ ISM	□ SIR □ ISM	□ SIR □ ISM
lev	action Piping Systems: Pipe all slopes toward tank and operates at yel of product in the tank. Underground piping from an aboveground ping. "European" style suction has only one check valve, which is at t	tank, a highe				
17	Does product piping qualify as European (safe) suction?	YES NO	YES NO	YES NO	YES NO	YES NO
18	Does product piping qualify as US Suction?	YES NO	YES NO	YES NO	YES NO	YES NO
19	Is a precision 0.1 Line Tightness Test conducted every three years? (Indicate date and results of most recent test.)	YES NO	YES NO	YES NO	YES NO	YES NO
20	If question #19 is "No," check what monthly method is used? Complete the appropriate compliance page.	□VM □GWM □SIR □ISM	□ VM □ GWM □ SIR □ ISM	□ VM □ GWM □ SIR □ ISM	□ VM □ GWM □ SIR □ ISM	UM GWM SIR ISM
Co	omments:					
_	(Inspector's Initial) (Date)	(Own	er/Operator's Ini	tial)		(Date)

If your system has an auto dialer that is used to notify an operator or other responsible person of an alarm condition AND the auto dialer is attached to interstitial sensors for double-walled piping, answer this question and write in "auto dialer" after the text.

27.00	-	rstitial Monitoring for Double W INTERSTITIAL MONITORING for PIPES must be			d at laast on	as a month	
(N	OTE:	Use this page for liquid probes/sensor Federal standards requiring an ALLD (mechanical or o	ors AND man electronic) for	ual methods	(sticking or v	isual).	mented at a
5~	-ities	y Name	rer date.)				
		of monitor (required):		onitor (requir	ed).		
		formation: If a question does not apply, leave it	MT TANK #	MT TANK #	MT TANK #	MT TANK #	MT TANK
	ınk.		MI IANK #	MI IAIK #	mi ians #	MI IAIK #	MI IAIK
1	for	SM used as the primary method of leak detection the double-walled product pipe?	YES NO	YES NO	YES NO	YES NO	YES NO
2		the product pipe's interstitial space monitored on a ntinuous basis?	YES NO	YES NO	YES NO	YES NO	YES NO
87.48	3	Are console operational checks documented for the past twelve months?	YES NO	YES NO	YES NO	YES NO	YES NO
120		If question 3 is marked "NO", circle the months in which operational checks are NOT	1 2 3	1 2 3	1 2 3	1 2 3	1 2
110	4	documented?	7 8 9	7 8 9	7 8 9	7 8 9	7 8
1400100	5	1 = January Will the leak detection system shut off the flow of	10 11 12 YES NO	10 11 12 YES NO	10 11 12 YES NO	10 11 12 YES NO	10 11 YES NO
9	6	fuel in the event of a release? Will the leak detection system trigger a continuous	YES NO	YES NO	YES NO	YES NO	YES NO
	6a	alarm in the event of a release? Are records available showing each sensor has	YES NO	YES NO	YES NO	YES NO	YES NO
,	Is	been tested annually for operability? the product pipe's interstitial space monitored	YES NO	YES NO	YES NO	YES NO	YES NO
350	ma	anually on a monthly basis? Do any of the monitor results indicate liquid in the	YES NO	YES NO	YES NO	YES NO	YES NO
	8	interstice? If yes, please identify the month(s) and tank.					
E	9	Are product pipe leak detection records available for the past twelve months?	YES NO	YES NO	YES NO	YES NO	YES NO
A SOUTH IN	10	If question # 9 is marked "NO", circle the months in which leak detection test records are NOT available?	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 4 5 7 8
퍃		1 = January	10 11 12	10 11 12	10 11 12	10 11 12	10 11
1	imp	he product pipe trench lined with an approved pervious artificial membrane to achieve secondary stainment?	YES NO	YES NO	YES NO	YES NO	YES NO
	12	If monitoring the product pipe trench, are the wells clearly marked and secured?	YES NO	YES NO	YES NO	YES NO	YES NO
	13	Are product pipeline leak detection records available for the past 12 months?	YES NO	YES NO	YES NO	YES NO	YES NO
	14	If question # 13 is marked "NO", circle the months in which leak detection records are NOT available.	1 2 3	1 2 3	1 2 3	1 2 3	1 2
	'*	1 = January	7 8 9 10 11 12	7 8 9 10 11 12	7 8 9 10 11 12	7 8 9 10 11 12	7 8 10 11
5		product pipe leak detection equipment accessible d functional?	YES NO	YES NO	YES NO	YES NO	YES NO
6		any containment sumps have product in them?	YES NO	YES NO	YES NO	YES NO	YES NO
7	Do	any containment sumps have water in them such at leak detection is impacted?	YES NO	YES NO	YES NO	YES NO	YES NO

SUBMIT ORIGINAL TO DEQ WITHIN 15 DAYS OF COMPLETION OF THE INSPECTION $% \left(1\right) =\left(1\right) \left(1$

MDEQ NOV/05