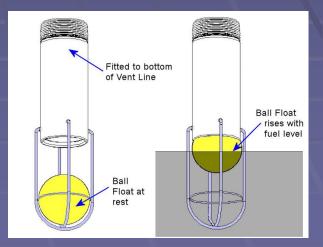
PEI RP 1200 Overfill Equipment Inspections





Edward S. Kubinsky Jr. CROMPCO, LLC Director of Regulatory Affairs, Training and Certification ed.kubinsky@crompco.com National Tanks Conference Workshop Monday 09/10/2018



Overfill Equipment Options (vary by state):

- I. Ball Floats set <u>no higher than 90% tank capacity or 30</u> <u>minutes prior to overfilling</u>
- 2. Automatic shutoff devices (drop tube shut off devices) set no higher than 95% tank capacity
- 3. High Level Alarms set <u>no higher than 90% tank capacity or</u> within 1 minute of being overfilled



PEI RP 1200 Committee Position

Committee felt that for practical purposes, it would be difficult, if not nearly impossible to determine during field inspections that an overfill device would restrict flow "30 minutes prior to overfilling" or "alerting" the operator 1 minute before overfilling or exposing the top of the tank to fuel. Therefore these options were not included in the RP 1200 document and 90% restriction/alarm and 95% shutoff were used as proper levels for overfill equipment inspections.

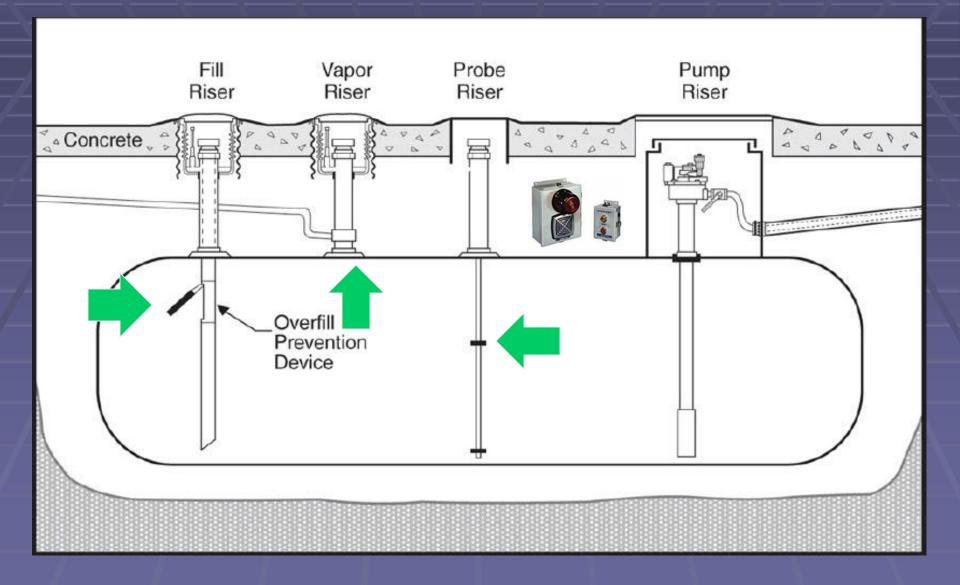
More About PEI RP 1200

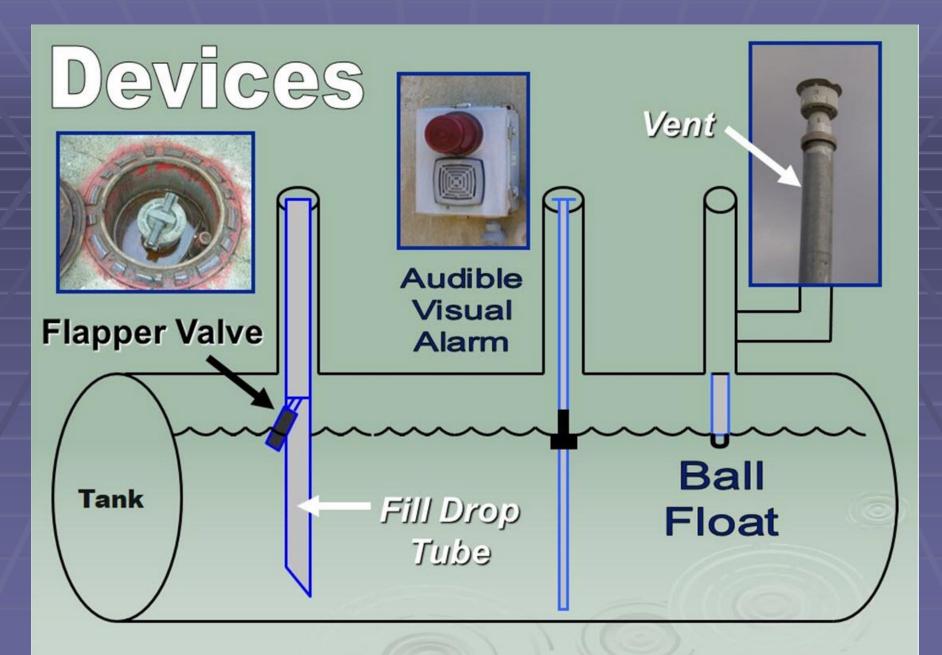
While RP 1200 is the recognized "code of practice" for performing this work, regulations state that testing and inspections can be performed according to:

A) Manufacturer's requirements, or
 B) Code of practice developed by a nationally recognized association or independent testing laboratory, or

C) Requirements determined by the implementing agency to be no less protective of human health and the environment

Overfill Equipment Options





NEIWPCC UST Overill - Webinar - May 2017

No Matter Which Type Of Device You're Inspecting, You Need Tank Charts!

		DN Internet	•	10,0	00 Gall		ration Diamete	Chart r Double	e-Wall 1	^r ank	
DIPSTICK	in the second second	DIPSTICK	and the second s	DIPSTICK	an and	DIPSTICK	Second Second	DIPSTICK		DIPSTICK	and the second second
READING	GALLONS	READING	GALLONS	READING	GALLONS	READING 21-7/8*	GALLONS	READING 20-187	GALLONS	READING	GALLONS
0-1/6	4	7-3/8	367	14-50	981	21-7/6	1789	29-147	2660	36-3/6	3663
0-3/8*	8	7-5/8	375	14-7/8*	1005	22-1/6"	1798	29-38	2702	35-5/5"	3677
0-1/2	11	7-3/4	384	15"	1018	22-1/4"	1813	29-1/2*	2718	38-3/4"	3804
0-5/87	13	7-7/8*	394	15-1/8"	1030	22-3/6"	1825	29-5/8*	2736	36-7/8*	3712
0-344	16	87	403	15-1/4*	9043	22-1/2	1843	29-34*	2/51	35.	3729
0.7/8	20	8.1/8	412	15-38*	9056	22-5/6"	1858	29-78*	2767	37-1/8"	3746
14	23	8-1/4	421	15-1/2*	1068	22-3%	1872	307	2764	37-04*	3763
1-1/8*	26	8-3/87	431	15-5/8"	1081	22-7/6	1887	30-1/8*	2800	37-3/81	3781
1-1/4	30	8-1/2" 8-5/8"	440	15-34*	1094	23"	1902	30-14*	2817	37-1/2" 37-5/8"	3798
3-362	39	6-3/4"	480	15-00	1107	23-1/6"	1917	30-30	2849	37-6/0	3015
1-50	42	8-7/8*	480	16-1/6*	1119	23-1/4	1932	30-58*	2866	37-394	3850
1-3/4	41	0-//0 9*	479	16-1/4"	1146	23-3/0	1947	30-34*	2882	38"	3867
1-7.87	51	0-1/87	480	16-387	1158	23-5/5"	1978	30-7/8*	2800	38-1/8"	3865
2"	- 56	9-1/4*	400	16-1/2"	1171	23-34*	1993	31*	2918	38-1/4"	3902
2-1/5	81	9-5/6"	509	16-5/6*	7184	23-7/6"	2008	31-1/8*	2932	38-3/5"	3919
2-14	- 86	9-1/2*	519	15-34"	1197	24"	2023	31-14*	2949	38-1/2*	3937
2-3/8	71	9-5/8	529	18-718*	1211	24-1/8"	2038	31-3/8*	2965	38-6/87	3954
2-1/2	76	9-34*	539	17*	1224	24-1/4*	2054	31-1/2*	2982	38-3/4"	3971
2-5/67	81	9-7/85	549	17-1/6*	1237	24-3/6*	2069	31-58*	2900	38-7/8*	3980
2-34	87	10*	580	17-14"	1250	24-1/2" 24-5/6"	2384	31-34 ⁺ 31-7/8 ⁺	3015	30"	4008
2.7/8	92		570	10.200	1284		2100	31-1/0	3032		4024
34/8	98 104	10-14° 10-38°	580	17-1/2"	1277	24-34*	2115 2130	32-187	3049	39-1/4" 39-3/8"	4041
3-147	100	10-30	801	17-34	1304	28'	21.46	32-547	3082	39-1/2"	4076
3-3/8	115	10-547	812	17-7/8*	1317	25-1/8"	2181	32-38*	3000	39-5/5	4093
3-107	122	10-341	623	187	1331	25-1/4"	2177	32-5/2"	3118	39-3/4"	4111
3-5/8	128	10-7/8*	6013	18-1/8*	1344	25-3/8"	2192	32-58*	3132	39-7/8*	4128
3-384	134	15	644	18-1/4"	1358	25-1/2"	2208	32-34*	3140	40"	4146
3-7/8	140	11-1/8*	685	18-3/81	1372	25-5/5"	2223	32-7/8*	3166	40-1/8*	4163
4"	147	11-1/4*	686	18-1/2"	1386	25-34"	2239	33.	3163	40-1/4*	4181
41/8	154	11-38	877	18-5/6"	1309	25-7/6"	2265	23-18*	3250	40-3/5"	4198
4-1/4	160	11-107	503	18-341	1413	26"	2270	33-14*	3216	40-1/2"	4218
43/8	167	11-58*	210	18-7/8*	1427	26-1/8* 26-1/4*	2286	\$3-36* \$3-92*	3233	40-5/8" 40-3/4"	4251
45/8	181	11-78*	721	19-1/8*	1454	28-3/6"	2317	33-58*	3267	40-2/8*	4268
434	158	12	732	19-14*	1468	28-1/2	2233	33-34*	3284	41*	4296
47/85	195	12-1.8*	744	19-38*	1482	26-56"	2549	33-7/8*	3301	41-1/8*	4303
6*	203	12-18*	758	19-102*	1408	25-34*	2985	341	3318	41-1/4*	4321
5-1/8*	210	12-3/8*	766	19-5/5*	1510	26-7/6*	2980	34-1/8*	3335	41-3/8*	4338
5-114	218	12-12*	778	19-34	3524	27*	2396	34-147	3352	41-107	4356
538	225	12-587	780	19-7/8*	1538	27-1/8	2412	34-38+	3389	41-5/5"	4373
5-107	733	12-34	801	20"	1552	27-1/4"	2428	34-1/2*	3388	41-3/4"	4301
5-5/87	241	12-7/8*	813	25-1/8*	1587	27-3/6*	2644	34-58	3403	41-7/8*	4408
5-34	248 258	13*	824	20-104* 20-3/8*	1581	27-1/2"	2460	34-34 ⁺ 34-78 ⁺	3420	42*	4428
5/10	254	13-18*	BHB	25-30	9800	27-34	24/10	367	3454	42-110	4481
6-1/8"	202	13-38*	HEG	20-5/8*	9824	27-7/8*	2508	38-1/8*	3471	42-3/8*	4479
6-1/4	250	13-107	872	20-34*	1658	28"	2524	35-14*	3468	42-1/2"	4405
6-3/6"	289	13-56*	883	20-7/8*	1652	28-1/6*	2540	38-38*	3605	42-5/8*	4514
6-107	297	13-344*	895	21*	1587	28-1/4"	2555	38-1/21	3622	42-3/4"	4531
8-5/8*	305	13-7/8*	907	21-1/8*	1681	28-3/6"	2872	35-58*	3540	42-7/8*	4540
6-3/4	314	14	9030	21-14*	1596	28-1/2"	2588	28-347	3657	45"	4567
6-7/87	322	14-1.8*	502	21-38*	1710	26-5/6*	2805	38-7/8*	3674	43-1/8*	4584
T	331	14-18	044	21-1/2"	1728	28-34*	2621	36"	3591	43-1/4"	4602
7-187	340	14-38"	986 988	21-56° 21-34°	1740	28-7/6" 25/	2637 2653	38-10*	3606	43-3/8" 43-1/2"	4619
t-rist.		14-17	1000	21-34	10.04	~	2033	30-14	3020	45-115	4001



Modern Welding Company Subsidiaries Nationwide www.modweldco.com modern@modweldco.com Tank Calibration Chart Cylindricel Tank / Horizontel Orientetion Striker Plats: 0 Inches Dismeter: 120 Inches Lengtr: 155.51 Inches Totel Volume: 8,058 gelons

Depth Vo protect ()	-	Depth V passed	(galleng)	Depth V protect	(address)	Depth 1	(and and	Depth (release	(pallors)	Depts	(patient)	Depth (release)	(and or
0.000	0	4.500	98	9.000	275	13.500	498	18.000	758	22.500	1,046	27.000	1,35
0.125	a	4.625	102	9.125	280	13.625	505	18.125	766	22.825	1,054	27.125	1,36
0.250	1	4.750	105	9.250	285	13.750	512	18.250	773	22.750	1,053	27,250	1,37
0.375	2	4.875	111	9.375	292	13.875	519	18.375	781	22.875	1,071	27.375	1,38
0.500	4	5.000	115	9.500	297	14.000	526	18.500	789	23.000	1,079	27.500	1,35
0.625	5	5.125	119	9.625	300	14.125	532	18.525	798	23.125	1,088	27.625	1,40
0.750	7	5.250	124	9.750	309	14.250	539	18,750	804	23.250	1,098	27.750	1,41
0.875	8	5.375	128	9.875	315	14.375	546	18.875	812	23.375	1,105	27.875	1,42
1.000	10	8.500	132	10.000	321	14.500	583	19.000	820	23.500	1,110	28.000	1,42
1.125	12	5.625	137	10.125	327	14.825	560	19.125	827	23.625	1,122	28.125	1,43
1.250	14	8.750	141	10,250	333	14.750	567	19,250	835	23,750	1,130	28,250	1,44
1.375	17	5.875	145	10.375	339	14.875	574	19.375	843	23.875	1,139	28.375	1,45
1.500	19	8.000	151	10.500	345	15.000	581	19.500	851	24.000	1,147	28.500	1,48
1.625	21	8.125	155	10.625	351	15.125	588	19.625	859	24.125	1,158	28.625	1,47
1.750	24	8.250	180	10.750	357	15.250	596	19.750	857	24.250	1,184	28,750	1,48
1.875	27	8.375	165	10.875	363	15.375	603	19.875	875	24.375	1,173	28.875	1,41
2.000	29	6.500	170	11.000	389	15.500	610	20.000	883	24.500	1,182	29.000	1,50
2.125	32	6.625	174	11.125	375	15.625	617	20.125	891	24,625	1,190	29.125	1,51
2.250	35	8.750	179	11.250	381	15.750	624	20.250	899	24.750	1,199	29,250	1,52
2.375	38	6.875	184	11.375	388	15.875	631	20.375	907	24.875	1,208	29.375	1,52
2.500	41	7.000	189	11.500	394	16.000	639	20.500	915	25.000	1,218	29.500	1,53
2.825	44	7.125	194	11.625	400	16.125	646	20.625	923	25.125	1,225	29,625	1,54
2,750	47	7.250	199	11.750	407.	18.250	653	20.750	931	25.250	1,234	29,750	1,55
2.875	50	7.375	205	11.875	413	18.375	661	20.875	939	28.375	1,242	29,875	1,55
3.000	54	7.500	210	12,000	419	18.500	663	21.000	947	25.500	1,251	30.000	1,57
3.125	57	7.625	215	12.125	426	16.625	675	21.125	955	25.625	1,280	30,125	1,58
3.260	80	7.750	220	12.250	432	18:750	683	21,250	983	25,750	1,289	30.250	1,51
3.375	64	7.875	225	12,375	439	16.875	830	21.375	972	25.875	1.277	30.375	1,60
3.500	53	8.000	231	12,500	445	17.000	62.83	21.500	980	28.000	1,286	30.500	1,61
3.625	71	8.125	235	12,625	452	17.125	705	21.625	988	26,125	1,295	30.625	1,62
1.750	75	8,250	241	12,750	458	17.250	713	21.750	996	26.250	1,304	30,750	1,63
3.875	79	8.375	247	12,875	455	17.375	720	21,875	1,004	28.375	1,313	30.875	1,64
4.000	82	8.500	252	13.000	472	17.500	728	22.000	1,013	28.500	1,321	31.000	1,65
4.125	86	8.625	258	13,125	478	17.625	735	22,125	1,021	28.625	1,330	31.125	1,65
4,250	90	8.750	283	13,250	485	17.750	743	22,250	1,029	26,750	1.539	31,250	1,85
4.375	94	8.875	289	13.375	492	17.875	750	22.375	1,038	28.875	1,348	31.375	1,67

Hopefully, the owner can provide charts to the service provider....good luck!

Containment Solutions Tanks: http://containmentsolutions.com/petroproduct-library.html

ZCL/XERXES Tanks: https://www.zcl.com/en/document-library/

Modern Welding has a tank chart generator for steel tanks: https://www.modweldco.com/tank-chart

Highland Tank has a tank chart generator for steel tanks: https://www.highlandtank.com/_gauge-charts/

Determine 90% or 95% in Tank

7901 XERXES AVENUE SOUTH MINNEAPOLIS, MN 55431-1288

www.xerxescorp.com 952-887-1890

Dipstick Calibration Chart for 10,000 Gallon - 8' Diameter SW & DWT-I Tank

DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS
		1000	12 20 2	in an and a second second						100 A 100 A 100 A

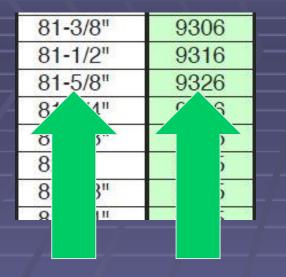
90"	9799
90-1/8"	9802
90-1/4"	9805
90-3/8"	9808
90-1/2"	9810
90-5/8"	9812
90-3/4"	9814
90-7/8"	9815
91"	9816
91-1/8"	9816

XERXES[®]

Steps:

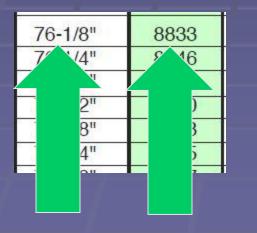
- Take the full tank "actual" capacity from the chart and multiply by .95 or .90 (do not use nominal tank capacity)
 - 9816 x .95 = 9325 (automatic shutoff device)
 - 9816 x .90 = 8834 (HLA or ball float)

Determine 90% or 95% in Tank



Steps:

 Find the closest inch mark on the chart and determine the height in the tank of the corresponding volume



- 9816 x .95 = 9325 (automatic shutoff device)
- 81.625"
- 9816 x .90 = 8834 (HLA or ball float)
- 76.125"

So, an automatic shutoff device has to be set to shut off 9.5" from the top of this tank (91.125" full volume – 81.625" 95% volume = 9.5") or at the 81.625" level as measured from the bottom of the tank

A high level alarm or ball float would need to be set to alarm or restrict 15" from the top of this tank (91.125" full volume – 76.125" 90% volume = 15") or at the 76.125" level as measured from the bottom of the tank



Use tank stick as a reference when determining where the equipment is installed in the tank.







How to Inspect Overfill Equipment – Chapter 7

PEI/RP1200-17 -

Recommended Practices for the Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities



PEI/RP1200-17

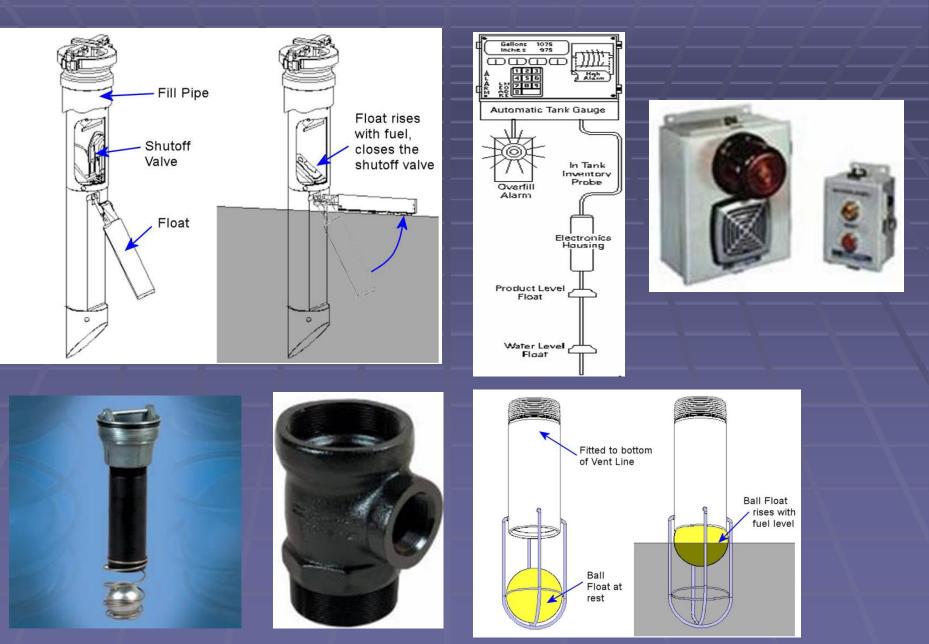
7. UST OVERFILL EQUIPMENT VERIFICATION, INSPECTION AND TESTING

Although the effectiveness of overfill prevention devices can be tested by attempting to overfill an underground storage tank (UST) with product and determining how well the device functions, this approach is not recommended. Any malfunction in the overfill prevention device could result in a product release that could result in a threat to public health and safety and environmental damage.

Federal UST rules require that overfill prevention equipment automatically restrict flow or alert the transfer operator when the tank is no more than 90 percent full or shut off flow into a tank when it is no more than 95 percent full. Other alternatives to prevent overfills are the restriction of flow during a delivery 30 minutes prior to overfilling; alerting the operator 1 minute before overfilling may occur; or automatically shutting off flow into a tank so that none of the fittings located on top of the tank are exposed to product due to overfilling.

The PEI Overfill, Release Detection and Release Prevention Equipment Testing Committee has written the recommended practices for automatic shutoff devices to reflect that the devices must be set to shut off flow when the tank is no more than 95 percent full, and flow restriction and overfill alarm devices must automatically restrict flow or alert the transfer operator when the tank is no more than 90 percent full. This approach reflects the more conservative application of the rules.

Overfill Equipment Verification, Inspection and Testing



Overfill Prevention: Automatic Shutoff Device



Overfill Prevention: Automatic Shutoff Device

RP 1200:

- Remove and inspect for damage
- Float moves freely
- Latch mechanism works
- Valve moves into flow path of fuel
- Bypass valve open (if possible)
- Verify 95% level shutoff (tank chart)

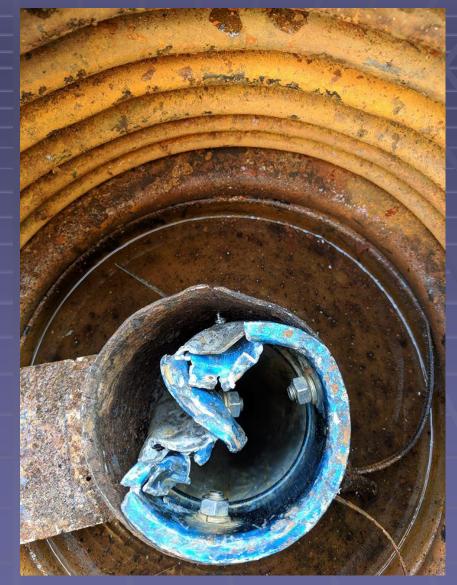
To Remove the drop tube or not to remove, that is the question....

Manufacturers are now providing procedures for inspecting their overfill equipment without removing it from the tank. There are pros and cons to this, however, following MFG procedures should be fine with most AHJ's.

The PEI RP 1200 committee discussed this at length and being that this document is an industry "best practice" document, the committee determined that it is in the best interest to "exercise" and periodically remove the valves for inspection.

Here's a few reasons why to remove...

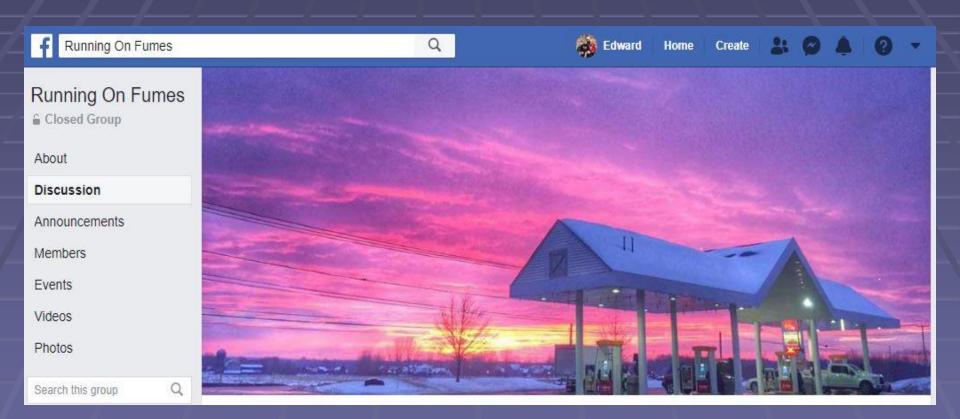




Here's a few reasons why to remove...

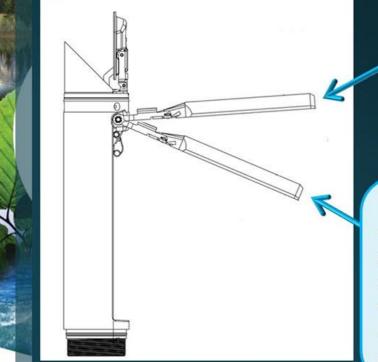


For Great Technician Photos Like These, Follow on Facebook



From OPW Presentation – NEWIPCC Webinar on 5/10/17

How a 71SO Overfill Prevention Device Works



Stage 2 – Automatic Overfill Prevention •Occurs only if fuel deliverer does not cut off flow from tank •Float arm continues to rise, closes secondary orifice

•Flow is completely shut-off, preventing fuel from reaching tank top

Stage 1 – Overfill Detection

- •Float arm pushes valve flap beyond protective bend in upper tube
- •Main valve flap immediately sealed closed by fuel flow
- Fuel deliverer is notified tank is nearing full by hose jump
 Fuel reduced to 3-5 GPM through secondary orifice to empty hose



Some newer shutoff valves state exactly where 95% is located on the valve!

Franklin Fueling Systems

OFFICAT ULC OB02

FFEI

Problems we occasionally encounter in the field....





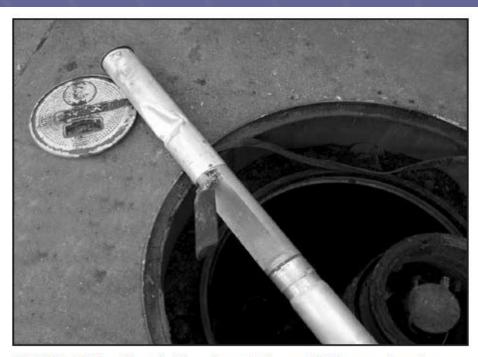


FIGURE 7-1. Check the drop tube and flapper for damage. Make sure that the flapper moves freely and will move into the product flow path.

7.1.7 Pass/Fail Criteria. If the automatic shutoff device functions as designed and complete shutoff of product flow is able to occur when the tank is no more than 95 percent full, the automatic shutoff device passes the inspection.

If the automatic shutoff device does not function as designed or complete shutoff of product flow is unable to occur until the tank is more than 95 percent full, the automatic shutoff device fails the inspection.

Pass/Fail

Overfill Prevention: Ball Float



Overfill Equipment – Ball Floats

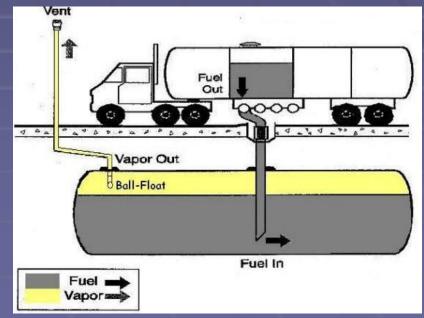
What you need to know:

- Ball floats are **not compatible** with the following systems:
 - Tanks that use coaxial Stage I Vapor Recovery
 - Suction pumps with air eliminators
 - Tanks that have remote fill piping
 - Underground tanks that receive a pressurized delivery
 - PEI RP 1200 Committee recommends removal
- <u>May not be used</u> as the primary method of overfill protection on <u>new or replaced</u> systems (date depends on state)
- If ball float is existing (date depends on state), may continue to be used
- Once the device needs to be repaired or replaced, another form of overfill protection must be used
- If following PEI RP 1200 the ball float will be checked to restrict flow at no higher than 90% tank capacity (use tank chart)
- <u>Must be removed for inspection (can be a problem if never removed)</u>

Ball Float Valve



Ball float valve as seen from inside the tank



They come in all shapes and sizes



Overfill Prevention: Ball Float

RP 1200:

- Remove ball float & inspect for damage
- Check ball for holes & cracks and moves freely
- Check vent hole
- Check for 90% level (tank chart)
- Visually verify tank-top fittings are vapor-tight

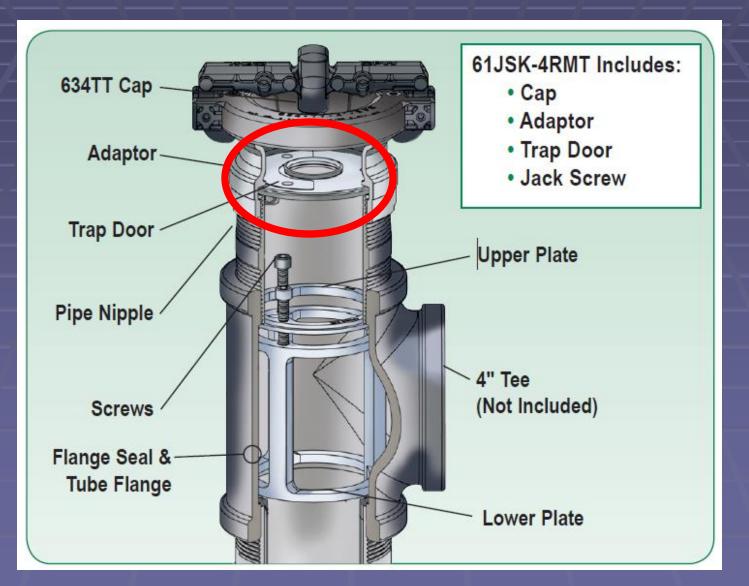


Bleed hole corroded

Cage corroded



Overfill Prevention: Ball Float Installed w/ Remote Fill Pipe



Pass/Fail

7.2.7 Pass/Fail Criteria. The ball float valve passes the inspection if the ball float valve functions

as designed, flow restriction occurs when the tank is no more than 90 percent full, and the tank-top fittings are vapor-tight.

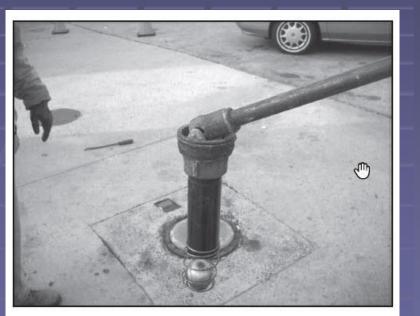


FIGURE 7-3. To avoid damage when removing or reinstalling the ball float, use an extractor tool recommended by the ball float manufacturer.

If any of the following configurations exist, the overfill prevention system fails the inspection:

- ball float valves are installed in storage systems that are equipped with suction pumps and air eliminators;
- the ball is cracked or damaged;
- the ball float cannot be removed;
- the orifice is not at the top of the assembly, or is clogged with debris or corroded, which would prevent proper air flow after activation;
- ball float valves are installed with coaxial Stage I vapor recovery;
- ball float valves are used on tanks equipped with remote-fill pipes and gauge openings without the use of "trap door" devices; or
- ball float valves are installed in storage systems that also are equipped with automatic shutoff devices and the ball float valve is set to restrict flow before the tank is 95 percent full.

If the ball float valve does not function as designed, flow restriction does not occur until the tank is more than 90 percent full, or the tank-top fittings are not vapor-tight, the ball float valve fails the inspection.

NOTE: When permanently removing a ball float, ensure that the entire assembly is removed so as not to interfere with other methods of overfill prevention.

Sorry Kevin Henderson, I liked this picture too much not to share!

Ball Float Valves - What if I can't remove? •Knock out ball & install drop tube device REALLY?



Overfill Prevention: High Level Alarm









Overfill Prevention: Alarm

RP 1200:

- Compare ATG fuel level to stick level
- Check that overfill alarm is "on"
- Activate overfill alarm button (if available)
- Remove ATG probe
- Move float to activate alarm
- Check float height is at 90% when alarm occurs

Pass/Fail



7.3.7 Pass/Fail Criteria.

- If the overfill alarm(s) activates when the tank is no more than 90 percent full, the overfill alarm passes the test.
- If the fuel level on the console does not agree with the gauge stick reading, the system fails the test.
- If the overfill alarm(s) does not activate in the test mode, it fails the test.
- If the overfill alarm(s) does not activate or activates at any product level above 90 percent tank capacity, it fails the test.



Documentation

PEI RP 1200 provides sample forms:

		APPEN	DIX C-5			
		VERFILL EQUIP HUTOFF DEVK				
Facility Name:			Owner:			
Address:			Address:			
City, State, Zip Code:			City, State, Zip	Code:		
Facility I.D. #:			Phone #:			
Testing Company:			Phone #:		Date:	
This data sheet is for inspecting au	tomatic shutoff d	levices and ball fic	oat valves. See Pf	El/RP1200 Sectio	n 7 for inspection	procedures.
Product Grade						
Tank Number					8	
Tank Volume, gallons						
Tank Diameter, inches						
Overfill Prevention Device Brand					1	
Type	Automatic Shutoff Device Ball Float Valve	Automatic Shutoff Device Ball Float Valve	Automatic Shutoff Device Ball Float Valve	Automatic Shutoff Device Ball Float Valve	Automatic Shutoff Device Ball Float Valve	Automatic Shutoff Device Ball Float Valve
AUTOMATIC SHUTOFF DEVICE I	NSPECTION					
1 Drop tube removed from tank?	Ves No	□Yes □No	□ Yes □ No	I Yes I No	Yes No	Yes No
2.Drop tube and float mecha- nisms free of debris?	Ves No	Ves No	□ Yes □ No	Ves No	Yes No	Yes No
3.Float moves freely without binding and poppet moves into flow path?	Yes No	□Yes □No	□ Yes □ No	I Yes I No	🗆 Yes 🗆 No	□Yes □No
4.Bypass valve in the drop tube open and free of blockage (if present)?	□Yes □No □Not Present	□Yes □No □Not Present	Ves No	□ Yes □ No □ Not Present	□ Yes □ No □ Not Present	Yes No
5.Flapper adjusted to shut off flow at 95% capacity?*	DYes DNo	□Yes □No	□Yes □No	I Yes I No	Yes No	□Yes □No
A "No" to any item in Lines 1-5 inc	dicates a test fail	ure.				
BALL FLOAT VALVE INSPECTION	**					
1 Tank top fittings vapor-tight and leak-free?	Dives DNo	□Yes □No	□ Yes □ No	I Yes I No	Ves No	□Yes □No
2.Ball float cage free of debris?		Yes No	□ Yes □ No	Ves No	Yes No	Yes No
3.Ball free of holes and cracks and moves freely in cage?	I Yes I No		□ Yes □ No	I Yes I No	□ Yes □ No	
4.Vent hole in pipe open and near top of tank?	Tes No	□Yes □No	□ Yes □ No	🛛 Yes 🔲 No	□Yes □No	□Yes □No
5.Ball float pipe proper length to restrict flow at 90% capacity?***	□Yes □No	□Yes □No	□ Yes □ No	O Yes O No	□Yes □No	
A *No" to any item in Lines 1-5 inc	dicates a test fail	ure.				
Test Results	Pass D Fail	Pess E Fail	Pass D Fail	Pass D Fail	Pass D Fail	Pass D Fa
Comments:						

* Use manufacturer's suggested procedure for determining if automatic shutoff device will shut off flow at 95% capacity ** If a ball float is found to fail the inspection, another method of overfill must be used.

*** Use manufacturer's suggested procedure for determining if flow restriction device will restrict flow at 90% capacit

Several states have developed forms (AL, GA, IL, MS, NC, PA, SC, WV):

This form must be used to document the	operability	check of ov	verfit equip		ally for UST	systems in	stalled on			
ncludes existing UST systems that hav					n or after	November	1, 2007)	or for any	existing US	ST syste
egardless of installation date prior to retu Inspect overfill prevention equipment for o					n in accorda	nce with mar	-	idalinas and	line the KOue	-
Prevention Equipment Inspection Procedu										
 Results must be maintained for at least on 	e year at the	UST site or t	he tank own	er or operato	r's place of b	ousiness, and	be readily a	available for	inspection.	
JST FACILITY			10.000					a cara cara		
Swner / Operator Name		Facility N	ame				Fa	clity ID#:		
acility Street Address		Facility C	ity				Co	unty		
CONTRACTOR/PERSON COND	ICTING I	EDECT	ONE					-39		
Company Name	JC TING I	SPECI	Pho	ne		City			- 1	State
I certify, under penalty of law, that the	oction data a	an ideal as	this form d	the second sector the			and summer show	shed in non		
the manufacturer's guidelines and the							erit was crie	soked in acc	ordance wi	
		1				V.A.				
Print Name of person conducting in	spection	8 e	Sign	ature of pers	on conduct	ing inspecti	00		Inspection	Data
Overfill Equipment Check	Tank #		Tank #	attare of perc	Tank #	ing nopeco	Tank #		Tank #	Land
Tank chart volume (gallons):	-		T SALIK W		T GIT IK T		CONTRA IT		T SALK IF	_
Tank diameter (inches)			13						3	
Product										
Tank Type:	FRP	Steel	FRP	Steel	FRP	Steel	FRP	Steel	FRP	T Ste
If FRP Compartment tank select	Base	End	Base	End	Base	End	Base	End	Base	En
lapper Valve/Auto Shut Off	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Fight fill adapter installed and in good condition?										
Auto shut off device components and seals in good condition?										
Current length from tank top to lapper shutoff point (inches) FSP										
Percent tank volume when complete shutoff occurs (%)										
Ball Float Valve	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Cage intact & ball in good condition,										
pall moves freely & seats firmly				32752		87.8				3.57
Fank top fittings tight Current length from tank top to ball										
loat set point (inches) BFSP										
30 minute flow restrictor installed (if	Yes	DN/A	T Yes	N/A	Ves.		T Yes	N/A	T Yes	
ball float set at more than 90%) Percent tank volume when flow	10	Lines	Lifes		Lies		1105	Lien	Lites	
estriction occurs (%)										
High Level Alarm (HLA)	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Alarm is audible and visible to fill- ports and delivery driver?										
Alarm occurs when float is moved to alarm set point?										
Percent tank volume when alarm occurs (%) (attach alarm setup)	Pass	Fail	Pass	Fail	Pass		Pass	Fail	Pass	Fai
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fai
Inspection result										

Tester's Name (print)

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DEL/001200 17

ter's Signature

Questions/Comments?

