

## MONTGOMERY FIRE/RESCUE UNDERGROUND STORAGE TANK INSTALLATION CHECKLIST



		Type Of Tank: Steel Fiberglass  Jacketed
Physical Address:	·	
Address:		Company Address ( Street/State/Lip).
		Installation Foreman:
Tank Size:	1.     2.	Tank U.L.#
	3	Tank U.L.#
	4	Tank U.L.#

## BEFORE COMPLETING THIS CHECKLIST, PLEASE READ CERTIFICATION ON PAGE 7.

This document references Recommended Practices for Installation of Liquid Underground Storage Systems (PEI/RP 100-2005).

Installation foreman must answer each question in order to verify the use of proper installation procedures. Please provide accurate figures and dimensions. **Questions marked with** [PHOTO] **must include photographs.** The photographs must be clear and in focus. Each picture will be numbered with the corresponding section of this checklist, and detailed descriptions are to be provided on the back of each picture. This checklist and photographs are to be submitted with 15 days of completion of installation to:

MONTGOMERY FIRE/RESCUE Bureau of Inspections 19 Madison Avenue Montgomery, Alabama 36104

	the installer, you are <b>required</b> to be certified by the tank manufacturer (listed on page 1). Have you been certified the tank manufacturer to install their product? (Circle one)	tified <b>NO</b>
Ple	ease provide certification# Date/	
Na	ame of Certifier	
	TANK HANDLING	
1.	Explain how the tank was removed from the delivery truck. Please note equipment used:	
2.	Was the tank set on the ground prior to installation?	 NO
	If yes, explain how the tank was supported as to not to be damaged by contact with the ground (PEI 2.3) [PHOTO]:	
3.	Was equipment able to lift and lower the tank without dragging or dropping?YES	NO
4.	Was the tank coating/shell damaged during transport or unloading?YES	NO
	If yes, describe repairs:	
B. I	PRE-INSTALLATION TANK TEST	
1.\	Were tanks shipped from factory with the interstitial space under vacuum? [PHOTO]YES	NO
2.	Describe tank test method:	
3.	Does the method used for pre-installation tank test comply with manufacturers instructions?YES	NO
C. I	EXCAVATION AND BEDDING TYPE	
1.7	Type of backfill material placed as bedding between tank and native soil or anchoring pad:	
	Amount of material:inches.	
2.H	How far beyond the tank perimeter does the backfill material extend?:	
3.[	Distance of each tank from any wall, foundation, structure, property line, etc.:	
	ink 1ft from Tank 2ft from	
	nnk 3ft from Tank 4ft from	

4. Is the burial depth greater than the tank diameter?YE	S NO
5. What is the tank's burial depth? ft.	
6. Are tanks set deep enough to allow a minimum slope of one eighth inch per foot and a minimum of 18" of b over all portions of piping?YE	
7. Was groundwater encountered? YE	s no
If yes, how was the water handled?	
Was a discharge permit issued for de-watering?YE	s no
<b>Note:</b> De-watering the excavation may require approval from the Wastewater Management Division of the Department of Environmental Conservation. Please contact the Wastewater Management Division at (802) 24	1-3822
D. BACKFILL	
1. Please describe backfill used (i.e. particle size, type of material, etc.):	
2. Is this backfill acceptable to the manufacturer?YE	S NO
a. Is backfill free of debris such as chunks of rock, ice, snow, organic material or other debris? YE	S NO
b. Has a filter fabric been used to prevent backfill migration? YE	S NO
c. Is backfill even along underside of tank to ensure full support along tank's bottom half? YE	s nc
<b>Note:</b> If clean sand is used, mechanical compaction must be implemented according to the tank manufacturer recommendations, or in lifts of not more than 1 ft. each.	r'S
d. Are there at least two feet of backfill between the tanks and excavation walls, and over the tanks? (PEI Fig. 5-5)	s no
3. Are the tanks in an area subject to traffic?	
<ul> <li>a. Select which overburden cover requirement has been used:30 inches compacted backfill and 6 inches asphalt paving or asphaltic concrete. (Traffic area)18 inches compacted backfill and 8 inches of reinforced concrete. (Traffic area)12 inches of backfill covered by a filter fabric and 12 inches of earth. (Non-traffic area)12 inches of backfill and 4 inches of reinforced concrete (Non-traffic area)0verburden is being used to prevent floatation(Please refer to the tank manufacturer's installation documents for required overburden calculation.</li> </ul>	on).
b. Tanks of 25,000 gallons or greater have stricter over-burden requirements. Have the manufacturer's instructions for overburden been followed?	s nc
c. How far does concrete and/or asphalt extend beyond the outline of the tank?	

## E. ANCHORING & BALLASTING

<b>Note</b> : Anchoring and ballasting is required if groundwater is OR WILL BE in contact with the tank at any time duri the year, or if there are impermeable soils in the bottom of the excavation that may cause a bathtub effect.	ng
1. Did groundwater conditions require anchoring and ballasting?	NO
If yes, complete all sections that apply:	
a. Overburden amountft. (Submit Float Out Calculation on a separate sheet of pape when submitting this checklist, see PEI-RP 100, Appendix A)	r
b. Deadman Anchors: i. Number of anchors Size:ft xi	n
ii. Are the deadman anchors placed outside of the tank profile? YES	NO
iii. Were deadmen supplied by the tank manufacturer?YES	NO
iv. If not, were they constructed in accordance with manufacturer's instructions? YES	NO
c. Slab at Grade and Backfill – Accomplished by which method?: i. Adding ballast weight on top of tank. Weight used:	
ii. Increased burial depthft.	
iii. Increased pavement thickness:  Reinforced concrete:ft xin	
Asphaltft xin	
d. Bottom Hold-Down Pad: i. Size of concrete padft xin	
ii. How far does the pad extend beyond: Tank End:ft/in Tank Side:ft/in	
iii. Construction of pad	
iv. Is there a minimum of six inches backfill between tank and hold-down pad?YES	NO
e. When Deadman Anchors or Hold-Down Pads are used, have hold down straps or cables been positioned at points designated by the manufacturer?	NO
i. How many hold down straps were used?	
ii. Were they supplied by the tank manufacturer?YES	NO
iii. Are they uniformly snug?YES	NO
iv. Are straps nonmetallic?	NO

v. Are straps electrically isolated from tank to ensure proper corrosion protection? YES	NO
vi. Describe isolation material used:	
f. Was fuel added to the tank for ballast before installation was complete? YES	NO
F. SPILL CONTAINMENT AND OVERFILL PREVENTION	
1. Has a containment manhole been installed at each fill port?	NO
Manufacturer and construction:	
Size:gallons. Note: Minimum Size allowed is 15 gallons unle variance is granted by UST Program	ess:
Drain valves are not allowed. Is there a drain valve in any of the containment devices? YES	NO
2. Select which overfill protection device is used:	
Automatic Shutoff Device (Not suitable for loose fill or pressurized delivery)	
Is it installed at a distance equal or no more than 95% of tank capacity?YES	NO
Overfill Alarms (This method is effective for loose fill or pressurized deliveries.)	
Is it on an electrical circuit that is active all the time?	NO
Is there an audible/visible alarm such that the delivery driver can hear it and see it ? YES	NO
Is it set to activate at not more than 90% capacity of tank?	NO
Ball Float Valves (Prohibited for suction dispensing systems, generators, coaxial vapor recovery a loose fill and pressurized deliveries)	nd
What length is the Ball Float extension?inches	
Is it set to shut at 90% capacity of tank?	NO
Is it equipped with an extractable fitting?YES	NO
Vent Whistle (Allowed only on tanks receiving fuel deliveries by peddle truck)	
What distance is the vent pipe from the fill port?ft	
Is the whistle set to stop at not more than 90% capacity of tank?	NO
Is the whistle audible during deliveries?	NO
Manual overfill prevention (Only for tanks never receiving more than 25 gallons at one time)	

1. Select one:Manual interstitial monitoringElectronic interstitial monitoring  Is the sensor installed properly (at lowest point where liquid will accumulate first)?	G. RELEASE DETECTION METHODS FOR TANKS (all new tanks must use interstitial monitoring)		
Make/Model  H. CATHODIC PROTECTION  Note: Steel USTs must be provided with cathodic protection. Tanks constructed of corrosion-resistant materials do not	1. Select one:Manual interstitial monitoringElectronic interstitial monitori	ng	
H. CATHODIC PROTECTION  Note: Steel USTs must be provided with cathodic protection. Tanks constructed of corrosion-resistant materials do not	Is the sensor installed properly (at lowest point where liquid will accumulate first)?	YES	NO
Note: Steel USTs must be provided with cathodic protection. Tanks constructed of corrosion-resistant materials do not	Make/Model		
· ·	H. CATHODIC PROTECTION		
	· ·	ıterials do	o not
1. Is cathodic protection required?	1. Is cathodic protection required?	YES	NO
2. Was the anode inspected for damage that may have occurred during the shipment and handling?YES NO	2. Was the anode inspected for damage that may have occurred during the shipment and handling?	YES	NO
3. Was the waterproof packaging removed?	3. Was the waterproof packaging removed?	YES	NO
4. Was the electrical continuity of the anode and lead wire tested?	4. Was the electrical continuity of the anode and lead wire tested?	YES	NO
5. How was electrical isolation from other metal structures achieved?	5. How was electrical isolation from other metal structures achieved?		
I. AS-BUILT OF TANK INSTALLATION SHOWING PIPING RUNS TO DISPENSERS  1. Has the drawing been attached to this checklist?	Has the drawing been attached to this checklist?	YES	NO

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I certify under penalty of law that this document, photographs, and any other attachments were prepared under my direction or supervision. The information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment for knowing violations. I am aware that release detection must be conducted and documented at least weekly, and that all release detection documentation must be kept for 3 years.

**Required**	Signature of Tank owner or authorized agent	Date
**Required**	Signature of authorized agent for contractor	Date