

Texas Commission on Environmental Quality

CHECKLIST WORKSHEET

IHW FOCUSED INVESTIGATION FOR LQG TANKS

Regulating Entity Name

Date :

Additional I D:

Investigator Name:

Item Number	Description	SECTION A: Tanks	Answer	Citations	Notes
Item Number 1	Description	Is each tank clearly labeled or marked "Hazardous Waste"?			
	Answer			262.34(a)(3)	Notes
Item Number 2	Description	Did generator exceed the accumulation time limitation?			
	Answer			335.69(a)(1)(B)	Notes
Item Number 3	Description	For regulated entities which accumulate hazardous waste in tanks for the purpose of facilitating proper recovery, treatment or disposal, is the tank clearly marked as required, or is the applicable information recorded and maintained in an operating record?			
	Answer			335.431(c)(1)	Notes
Item Number	Description	SECTION B: Existing Systems			
Item Number 1	Description	Does the tank system have secondary containment meeting the requirements of 40 CFR 265.193? If NON-COMPLIANT, then complete questions 2 and 3 of this section. If COMPLIANT, the answer to question 2 and 3 of this section is Not Applicable.			
	Answer			335.112(a)(9)	Notes
Item Number 2	Description	Does the tank system include any units exempt from secondary containment?			
	Answer			335.69(a)(1)(B)	Notes
Item Number 3	Description	Has the owner or operator obtained a variance for secondary containment?			
	Answer			335.69(a)(1)(B)	Notes
Item Number 4	Description	For non-enterable underground tanks, is a leak test repeated annually until secondary containment is provided? If tank system is exempt or has obtained a variance, the answer to #4 is Not Applicable.			
	Answer			262.34(a)(1)(ii)	Notes
Item Number 5	Description	For all other tanks (other than non-enterable underground) and ancillary equipment, is a leak test or integrity assessment conducted annually until secondary containment is provided? If tank system is exempt or has obtained a variance the answer to #5 is Not Applicable.			
	Answer			335.112(a)(9)	Notes
Item Number	Description	SECTION C: Containment of Releases - Complete this section ONLY for LQGs which have tank systems for which secondary containment is already a requirement.			
Item Number 1	Description	Does the tank system have secondary containment consisting of at least one of the following devices: Liner, Vault, Double-walled Tank, or an equivalent device approved by the TCEQ?			
	Answer			335.112(a)(9)	Notes
Item Number 2	Description	Is the secondary containment system for the tank a liner external to the tank? If NO, go to question #3. If YES, answer questions 2A, 2B, 2C and 2D.			
	Answer				Notes

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Item Number 2A	Description	Is the external liner designed or operated to contain 100% of the capacity of the largest tank within its boundary?	
	Answer	Citations	Notes
		262.34(a)(1)(ii)	
Item Number 2B	Description	Unless the collection system has sufficient excess capacity, is the external liner designed or operated to prevent run-on or infiltration of precipitation into the secondary containment system?	
	Answer	Citations	Notes
		262.34(a)(1)(ii)	
Item Number 2C	Description	Is the external liner free of cracks or gaps?	
	Answer	Citations	Notes
		335.69(a)(1)(B)	
Item Number 2D	Description	Is the external liner designed and installed to completely surround the tank and to cover all surrounding earth likely to come into contact with the waste if released?	
	Answer	Citations	Notes
		265.193(e)(1)(
Item Number 3	Description	Is the secondary containment system for the tank a vault? If NO, go to question #4. If YES, answer questions 3A, 3B, 3C, 3D, 3E and 3F.	
	Answer	Citations	Notes
Item Number 3A	Description	Is the vault designed or operated to contain 100% of the capacity of the largest tank within its boundary?	
	Answer	Citations	Notes
		335.112(a)(9)	
Item Number 3B	Description	Unless the secondary containment collection system has sufficient excess capacity, is the vault designed or operated to prevent run-on or infiltration of precipitation into the secondary containment system?	
	Answer	Citations	Notes
		335.112(a)(9)	
Item Number 3C	Description	Is the vault constructed with chemical-resistant water stops in place at all joints, if any?	
	Answer	Citations	Notes
		335.112(a)(9)	
Item Number 3D	Description	Is the vault provided with an impermeable interior coating of lining that is compatible with the stored waste?	
	Answer	Citations	Notes
		335.112(a)(9)	
Item Number 3E	Description	Is the vault provided with a means to protect against the formation of and ignition of vapors within the vault?	
	Answer	Citations	Notes
		335.112(a)(9)	
Item Number 3F	Description	Is the vault provided with an exterior moisture barrier or other design to prevent migration of moisture?	
	Answer	Citations	Notes
		335.112(a)(9)	
Item Number 4	Description	Is the secondary containment system for the tank a double-walled tank? If NO, go to Section D. If YES, answer questions 4A, 4B, 4C, 4D, 4E, 4F, 4G and 4H.	
	Answer	Citations	Notes
Item Number 4A	Description	Is the double-walled tank designed as an integral structure so that any release from the inner tank is contained by the outer shell?	
	Answer	Citations	Notes
		335.112(a)(9)	
Item Number 4B	Description	If the double-walled tank is constructed with metal, is it protected from both corrosion of the primary tank interior and the external surface of the outer shell?	
	Answer	Citations	Notes
		335.112(a)(9)	
Item Number 4C	Description	Is the double-walled tank provided with a built-in leak detection system capable of detecting a release within 24 hours or earliest practical time?	
	Answer	Citations	Notes
		335.112(a)(9)	
Item Number 5	Description	Is the double-walled tank's ancillary equipment (note certain exclusions) provided with full secondary containment?	
	Answer	Citations	Notes
		335.112(a)(9)	

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Item Number 6	Description	Is the double-walled secondary containment system constructed of, or lined with, materials that are compatible with the waste(s) to be placed in the tank system?	
	Answer	Citations 335.112(a)(9)	Notes
Item Number 7	Description	For the double-walled tank, is there evidence observed that the foundation is not supplying adequate structural support for the secondary containment, i.e., cracking gaps in joints, etc.?	
	Answer	Citations 335.112(a)(9)	Notes
Item Number 8	Description	Does the double-walled secondary containment system have a leak detection system?	
	Answer	Citations 335.112(a)(9)	Notes
Item Number 9	Description	Is the secondary containment system sloped and designed to drain and remove liquids resulting from leaks, spills, or precipitation?	
	Answer	Citations 335.112(a)(9)	Notes
Item Number	Description	SECTION D: New Systems	
	Answer	Citations	Notes
Item Number 1	Description	Has a proper tank assessment been conducted?	
	Answer	Citations 335.112(a)(9)	Notes
Item Number 2	Description	Were any components of the tank placed underground? If YES, complete questions 2A and 2B. If No, go to question #3.	
	Answer	Citations	Notes
Item Number 2A	Description	Does assessment or as-built plans indicate that the backfill material is non-corrosive, porous, homogenous and which completely and adequately supports the tank and piping?	
	Answer	Citations 335.112(a)(9)	Notes
Item Number 2B	Description	Does the assessment contain an analysis to determine that the underground tank system components will be protected from vehicular traffic?	
	Answer	Citations 262.34(a)(1)(ii)	Notes
Item Number 3	Description	Prior to covering, enclosing, or placing a new tank system or component into use, did an independent, qualified inspector or registered Professional Engineer (P.E.) inspect the system for the presence of weld breaks, punctures, scrapes of protective coatings, cracks, corrosion, or other structural damage or inadequate construction or installation?	
	Answer	Citations 335.112(a)(9)	Notes
Item Number 4	Description	Was the tank and ancillary equipment tested for tightness prior to being covered, enclosed or placed in use?	
	Answer	Citations 335.112(a)(9)	Notes
Item Number 5	Description	Was the new tank provided with secondary containment prior to being put into service?	
	Answer	Citations 335.112(a)(9)	Notes
Item Number 6	Description	Are installation statements maintained from those persons who supervised the tank system installation?	
	Answer	Citations 335.69(a)(1)(B)	Notes
Item Number	Description	SECTION E: Additional Information	
	Answer	Citations	Notes
Item Number 1	Description	Is a more in-depth investigation warranted? If YES, enter one of the following into the Comment area: a. [Applicable Type code] conducted during this investigation or b. In-depth investigation will be scheduled at a later date.	
	Answer	Citations	Notes

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