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**Texas Commission on Environmental Quality**

**CHECKLIST WORKSHEET**

**IHW EXISTING TANKS**

**Reg Ent Name:**

**Date:**

**Add ID:**

**Investigator Name:**

Item No	Description	Answer	Citations	Notes
	SECTION A: Accumulation Time Exemption (ATE)			
1	Is each tank clearly labeled or marked "Hazardous Waste"?	.	335.69(a)(3) 262.34(a)(3)	
2	Did generator exceed the accumulation time limitation?	.	335.69(a)(1)(B) 262.34(b)	
3	For facilities 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?	.	335.431(c) 268.50(a)(2)(ii)	
4	Have ignitable or reactive wastes been placed in tank systems? (If Yes, complete Section D)			
5	Are incompatible wastes placed in the same tank system? (If Yes, complete Section E)			
6	Does the regulated entity have Exempt 90-Day tanks which have been closed? (If Yes, complete Section G)			
	SECTION B: New Tank Systems. See separate New Tank Systems Checklist.			
	SECTION C: Existing Tank System Requirements			
1	Does the tank system have secondary containment meeting the requirements of 40 CFR 265.193?	.	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.193 262.34(a)(1)(ii) 265.193	
	If tanks system does have secondary containment meeting 40 CFR 265.193, then the rest of this section is N/A. If no, continue.			
2	Does the tank system include any units exempt from secondary containment?	.	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 262.34(a)(1)(ii) 265.193(g) 264.193(g)	
3	Has the owner/operator obtained a variance for secondary containment?	.	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 262.34(a)(1)(ii) 265.193(g) 264.193(g)	
	NOTE: If tank system is exempt, or has obtained a variance, the rest of this section is N/A for those tanks.			
4	For tanks without adequate secondary containment, has the existing tank system's integrity been properly assessed?	.	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.191(a) 262.34(a)(1)(ii) 265.191(a)	

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5	If Yes, was the assessment reviewed and certified by an independent, qualified registered Professional Engineer?	. . . . .	335.112(a)(9) 335.152(a)(8) 335.69(a)(1)(B) 264.191(a) 262.34(a)(1)(ii) 265.191(a)	
6	For non-enterable underground tanks, did the assessment include a proper leak test?	. . . . .	335.112(a)(9) 335.152(a)(8) 335.69(a)(1)(B) 264.191(b)(5)(i) 262.34(a)(1)(ii) 265.191(b)(5)(i)	
7	If yes to Question #6, is the leak test repeated annually until secondary containment is provided?	. . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 262.34(a)(1)(ii) 264.193(i)(1) 265.193(i)(1)	
8	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?	. . . . .	335.112(a)(9) 335.152(a)(8) 335.69(a)(1)(B) 264.193(i)(3) 262.34(a)(1)(ii) 265.193(i)(3)	
9	Is the written tank assessment kept on file at the facility?	. . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.191(a) 262.34(a)(1)(ii) 265.191(a)	
<b>SECTION D: Ignitable and Reactive Wastes</b>				
1	Was the waste treated, rendered, or mixed before or immediately after placement in tank systems to no longer meet the definition of ignitable or reactive waste?	. . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.198(a)(1)(i) 262.34(a)(1)(ii) 265.198(a)(1)(i)	
<b>AND</b>				
2	Did the regulated entity take precautions to prevent accidental ignition or reaction of wastes?	. . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.198(a)(2) 262.34(a)(1)(ii) 265.198(a)(2)	
<b>OR</b>				
3	Is the tank used solely for emergencies?	. . . . .	335.112(a)(9) 335.152(a)(8) 335.69(a)(1)(B) 264.198(a)(3) 262.34(a)(1)(ii) 265.198(a)(3)	
4	Does the tank meet the distance requirements from public ways (streets, alleys, adjoining property line) according to the chart in Table 2-1 through 2-6 of the National Fire Protection Association (NFPA)?	. . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.198(b) 262.34(a)(1)(ii) 265.198(b)	

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SECTION E: Incompatible Wastes				
1	Did the regulated entity take precautions to prevent accidental ignition or reaction of waste? Incompatible wastes must not be placed in the same tank system.	.	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.199(a) 262.34(a)(1)(ii) 265.199(a)	
2	If NO for Question #1, was the tank decontaminated prior to placing an incompatible waste in it?	.	335.152(a)(8) 335.69(a)(1)(A) 335.112(a)(9) 264.199(b) 262.34(a)(1)(ii) 265.199(b)	
SECTION F: Inspections				
1	Where present, does the owner/operator inspect the following each operating day:			
1A	Overfill/spill control equipment and freeboard?	.	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.195(a) 262.34(a)(1)(ii) 265.195(b)(1)	
1B	Aboveground portions of tank system to detect corrosion or release of waste?	.	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.195(c)(1) 262.34(a)(1)(ii) 265.195(b)(2)	
1C	Data gathered from monitoring and leak detection equipment to ensure that the tank is being operated according to design?	.	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.195(a) 262.34(a)(1)(ii) 265.195(b)	
1D	Construction materials and the area immediately surrounding the external accessible portions of the tank system, including secondary containment, to detect signs of releases of waste?	.	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.195(c)(2) 262.34(a)(1)(ii) 265.195(b)(3)	
2	If present, have cathodic protection systems been inspected and confirmed to be working properly within 6 months after initial installation and annually thereafter?	.	335.152(a)(8) 264.195(g) 335.69(a)(1)(B) 335.112(a)(9) 262.34(a)(1)(ii) 265.195(f)	
3	If present, are all sources of impressed current inspected and tested at least bimonthly?	.	335.152(a)(8) 264.195(g)(2) 335.69(a)(1)(B) 335.112(a)(9) 262.34(a)(1)(ii) 265.195(f)(2)	
4	Is the inspection information documented in the operating record?	.	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 262.34(a)(1)(ii) 264.195(h)	

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			265.195(g)	
	SECTION G: Closure			
1	At closure of the tank system, did the generator remove or decontaminate all hazardous waste residues and contaminated system components, soils, structures and equipment?	. . . . . . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.195(a) 262.34(a)(1)(ii) 265.197(a)	
2	Did the regulated entity demonstrate that all contaminated soils could be removed or decontaminated?	. . . . . . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.197(b) 262.34(a)(1)(ii) 265.197(b)	
3	If No to Question #2, did the regulated entity close the tank system and perform post-closure care as a landfill?	. . . . . . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.197(b) 262.34(a)(1)(ii) 265.197(b)	
	SECTION H: Containment of Releases			
	Complete this section ONLY for LQGs which have tank systems for which secondary containment is already a requirement.			
1	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?	. . . . . . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.193(d) 262.34(a)(1)(ii) 265.193(d)	
2	Does the secondary containment system meet the following requirements:			
2A	For a liner external to the tank, is it:			
2A1	Designed or operated to contain 100% of the capacity of the largest tank within its boundary?	. . . . . . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 262.34(a)(1)(ii) 265.193(e)(1)(i) 264.193(e)(1)(i)	
2A2	Unless the collection system has sufficient excess capacity, is it designed or operated to prevent run-on or infiltration of precipitation into the secondary containment system?	. . . . . . . . .	335.112(a)(9) 335.152(a)(8) 335.69(a)(1)(B) 262.34(a)(1)(ii) 265.193(e)(1)(ii) 264.193(e)(1)(ii)	
2A3	Free of cracks or gaps?	. . . . . . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 262.34(a)(1)(ii) 265.193(e)(1)(iii) 264.193(e)(1)(iii)	
2A4	Designed and installed to completely surround the tank and to cover all surrounding earth likely to come into contact with the waste if released?	. . . . . . . . .	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.193(e)(1)(iv) 262.34(a)(1)(ii) 265.193(e)(1)(iv)	

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	OR			
2B	For a vault, is it:			
2B1	Designed or operated to contain 100% of the capacity of the largest tank within its boundary?	· · · · ·	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.193(e)(2)(i) 262.34(a)(1)(ii) 265.193(e)(2)(i)	
2B2	Unless the secondary containment collection system has sufficient excess capacity, is it designed or operated to prevent run-on or infiltration of precipitation into the secondary containment system?	· · ·	335.69(a)(1)(B) 264.193(e)(2)(ii) 262.34(a)(1)(ii) 265.193(e)(2)(ii)	
2B3	Constructed with chemical-resistant water stops in place at all joints, if any?	· · · · ·	335.112(a)(9) 335.152(a)(8) 335.69(a)(1)(B) 264.193(e)(2)(ii) 262.34(a)(1)(ii) 265.193(e)(2)(ii)	
2B4	Provided with an impermeable interior coating or lining that is compatible with the stored waste?	· · · · ·	335.152(a)(8) 335.69(a)(1)(B) 335.112(a)(9) 264.193(e)(2)(iv) 262.34(a)(1)(ii) 265.193(e)(2)(iv)	
2B5	Provided with a means to protect against the formation of and ignition of vapors within the vault?	· · · · ·	335.112(a)(9) 335.152(a)(8) 335.69(a)(1)(B) 264.193(e)(2)(v) 262.34(a)(1)(ii) 265.193(e)(2)(v)	
2B6	Provided with an exterior moisture barrier or other design to prevent migration of moisture?	· · · · ·	265.193(e)(2)(vi) 264.193(e)(2)(vi) 262.34(a)(1)(ii) 335.69(a)(1)(B) 335.112(a)(9) 335.152(a)(8)	
	OR			
2C	For a double-walled tank, is it:			
2C1	Designed as an integral structure so that any release from the inner tank is contained by the outer shell?	· · · · ·	262.34(a)(1)(ii) 335.112(a)(9) 264.193(e)(3)(i) 265.193(e)(3)(i) 335.69(a)(1)(B) 335.152(a)(8)	
2C2	If constructed with metal, is it protected from both corrosion of the primary tank interior and the external surface of the outer shell?	· · · · ·	335.112(a)(9) 265.193(e)(3)(ii) 335.69(a)(1)(B) 262.34(a)(1)(ii) 264.193(e)(3)(ii) 335.152(a)(8)	
2C3	Provided with a built-in leak detection system capable of detecting a release within 24 hours or earliest practical time?	· · · · ·	264.193(e)(1)(iii) 335.152(a)(8) 262.34(a)(1)(ii) 335.112(a)(9) 335.69(a)(1)(B) 265.193(e)(1)(iii)	

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2C4	Is ancillary equipment (note certain exclusions) provided with full secondary containment?	· · · · ·	262.34(a)(1)(ii) 335.69(a)(1)(B) 265.193(f) 335.112(a)(9) 335.152(a)(8) 264.193(f)	
2C5	Is the secondary containment system constructed of, or lined with, materials that are compatible with the waste(s) to be placed in the tank system?	· · · · ·	335.112(a)(9) 262.34(a)(1)(ii) 264.193(c)(1) 335.152(a)(8) 265.193(c)(1) 335.69(a)(1)(B)	
2C6	Is there evidence observed that the foundation is not supplying adequate structural support for the secondary containment, i.e. cracking, gaps in joints, etc.?	· · · · ·	335.112(a)(9) 335.152(a)(8) 265.193(c)(2) 264.193(c)(2) 262.34(a)(1)(ii) 335.69(a)(1)(B)	
2C7	Does the secondary containment system have a leak detection system?	· · · · ·	335.69(a)(1)(B) 262.34(a)(1)(ii) 335.112(a)(9) 264.193(c)(3) 265.193(c)(3) 335.152(a)(8)	
2C8	Is the secondary containment system sloped and designed to drain and remove liquids resulting from leaks, spills or precipitation?	· · · · ·	335.112(a)(9) 335.69(a)(1)(B) 262.34(a)(1)(ii) 264.193(c)(4) 265.193(c)(4) 335.152(a)(8)	
2C9	For any tank system or secondary containment system that has had a leak, spill or been determined to be unfit for use:			
2C9A	Was the unit immediately removed from service?	· · · · ·	335.69(a)(1)(B) 262.34(a)(1)(ii) 264.196 335.112(a)(9) 265.196 335.152(a)(8)	
2C9B	Was the flow restricted from entering the affected tank system or secondary containment system?	· · · · ·	335.69(a)(1)(B) 335.152(a)(8) 262.34(a)(1)(ii) 264.196(a) 335.112(a)(9) 265.196(a)	
2C9C	Was waste removed from the affected tank system or secondary containment system within 24 hours?	· · · · ·	335.152(a)(8) 265.196(b) 335.69(a)(1)(B) 335.112(a)(9) 262.34(a)(1)(ii) 264.196(b)	
2C9D	Was a release to the environment reported to the TCEQ within 24 hours?	· · · · ·	265.196(d) 335.69(a)(1)(B) 262.34(a)(1)(ii) 335.112(a)(9) 335.152(a)(8) 264.196(d)	

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2C9E	If implementation of the Contingency Plan was required to remedy the leak or spill, was a report placed in the operating record?	· · · · ·	335.152(a)(8) 335.112(a)(9) 265.56(i) 262.34(a)(1)(ii) 335.69(a)(1)(B) 264.56(i)	
2C9F	If extensive repairs were made to the tank system prior to returning the system to service:			
2C9F1	Was certification by an independent P.E. obtained prior to the unit's return to service?	· · · · ·	335.112(a)(9) 335.69(a)(1)(B) 262.34(a)(1)(ii) 265.196(f) 264.196(f) 335.152(a)(8)	
2C9F2	Was the certification submitted to the TCEQ within 7 days after returning the tank system to use?	· · ·	262.34(a)(1)(ii) 335.152(a)(8) 335.112(a)(9) 335.69(a)(1)(B)	
2C9G	If the release to the environment was from a component of a tank system which had no secondary containment, was secondary containment provided to those components that cannot be visually inspected prior to returning the component to service?	· · · · ·	265.196(e)(4) 264.196(e)(4) 335.112(a)(9) 262.34(a)(1)(ii) 335.152(a)(8) 335.69(a)(1)(B)	