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**Texas Commission on Environmental Quality**

**CHECKLIST WORKSHEET**

IHW CEI SUBPART CC

Reg Ent Name:

Date:

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Investigator Name:

Item No	Description	Answer	Citations	Notes
	SUBPART CC - Air Emission Standards for Tanks, Surface Impoundments, and Containers for TSD's and LQG's			
1	Is the facility exempt from this subchapter under 265.1080(b)/264.1080(b), 265.1083(c)/264.1082(c), or 265.1/264.1? If yes, explain.			
2	Did the documentation (in the operating record) for the exemption include the information used to determine the exemption such as test results, measurements, calculations, and sampling events which include the locations, dates, and times sample collections?		264.1089(f)(2) 262.34(a)(1) 335.152(a)(19) 265.1090(f) 335.112(a)(21) 265.1090(f)(1) 265.1090(f)(2) 335.69(a)(1) 264.1089(f) 264.1089(f)(1)	
	<b>WASTE DETERMINATION PROCEDURES</b>			
1	Has a Volatile Organic (VO) concentration waste determination of each hazardous waste (treated or untreated) been conducted and documented?		265.1084(b)(1) 335.69(a)(1) 264.1083(b)(1) 264.1083(a)(1) 335.112(a)(21) 262.34(a)(1) 265.1084(a)(1) 335.152(a)(19)	
2	Was the determination made by direct measurement or process knowledge?			
3	If an analysis was performed, were the following requirements met:			
A	Did the facility develop a site sampling plan?		265.1084(b)(3)(ii)(D) 335.112(a)(21) 264.1083(a)(2) 265.1084(a)(3)(ii)(D) 265.1084(b)(3)(ii)(C) 264.1083(b)(2) 262.34(a)(1) 265.1084(a)(3)(ii)(C) 335.69(a)(1) 335.152(a)(19)	
B	Were at least four samples collected and analyzed within a year?		265.1084(a)(3)(ii)(A) 335.112(a)(21) 265.1084(a)(3)(ii)(B) 335.152(a)(19) 335.69(a)(1) 264.1083(b)(2) 264.1083(a)(2) 265.1084(b)(3)(ii)(B) 265.1084(b)(3)(ii)(A) 262.34(a)(1)	

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C	Was the analysis performed by an approved method?	.	265.1084(b)(3)(iii) 265.1084(a)(3)(iii) 335.69(a)(1) 264.1083(b)(2) 264.1083(a)(2) 335.112(a)(21) 262.34(a)(1) 335.152(a)(19)	
D	Did the Owner/Operator (O/O) determine the maximum organic vapor pressure for each hazardous waste placed in a tank using Tank Level 1 controls?	.	262.34(a)(1) 335.69(a)(1) 335.112(a)(21) 335.152(a)(19) 265.1084(c)(1) 265.1085(c)(1) 264.1083(c)(1) 264.1084(c)(1)	
E	Were tests conducted by Method 21 to determine "no detectable organic emissions?"	.	262.34(a)(1) 335.112(a)(21) 335.152(a)(19) 264.1083(d) 265.1084(d)(1) 335.69(a)(1)	
<b>TANKS</b>				
1	Did the records contain the tank identification number, dates of inspections, and detailed descriptions of any defects detected including action dates?	.	335.69(a)(1) 335.112(a)(21) 262.34(a)(1) 265.1090(b)(1) 264.1089(b)(1)(ii)(B) 264.1089(b)(1)(ii)(A) 264.1089(b)(1)(ii) 264.1089(b)(1)(i) 264.1089(b)(1) 264.1089(b) 264.1089(a) 265.1090(b)(1)(ii)(B) 265.1090(b)(1)(ii)(A) 265.1090(b)(1)(ii) 265.1090(b)(1)(i) 265.1090(b) 265.1090(a) 335.152(a)(19)	
2	For hazardous waste with an average volatile organic concentration of > 500 ppmw, is the hazardous waste managed in tanks with Tank Level 1 controls or Tank Level 2 controls?	.	335.112(a)(21) 335.152(a)(19) 265.1085(b) 335.69(a)(1) 262.34(a)(1) 264.1084(b)	
3	Does the hazardous waste in the tanks meet the following requirements for Level 1 controls: (if not, level 2 controls must be used).	.	265.1085(b)(1)(ii) 265.1085(b)(1)(iii) 264.1084(b)(1)(iii) 262.34(a)(1) 264.1084(b)(2) 265.1090(b)(2)(i) 264.1084(b)(1)(i) 264.1084(b)(1)(ii) 335.69(a)(1) 265.1085(b)(1)(i) 335.152(a)(19)	



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IHW CEI SUBPART CC (Cont)

			264.1088(b) 265.1085(e)(2) 265.1085(e)(3) 335.112(a)(21) 264.1084(e)(1) 264.1089(b)(2)(ii) 335.152(a)(19) 262.34(a)(1) 264.1084(e)(2) 265.1089(a) 265.1090(b)(2)(ii)	
I	Was the internal floating roof equipped with a continuous seal between the wall and floating roof edge with a continuous seal and documentation of the design maintained?			
II	Were the automatic bleeder vents closed at all times except when the roof was being floated off or was on the leg supports?			
III	Were all openings closed prior to filling the tank, and were the rim space vents closed except when the internal roof was not floating or when the pressure exceeded the manufacturer's recommended setting?			
IV	Was the internal floating roof inspected every 12 months and the seals, gaskets, and membranes every 10 years (or an alternative)?			
V	Was notification provided?			
B	External floating roof in accordance with the following requirements:		265.1089(a) 335.391(a)(1) 335.69(a)(1) 335.112(a)(21) 262.34(a)(1) 264.1084(f)(3) 265.1089(b) 265.1090(b)(2)(iii) 265.1090(b)(2)(iii)(A) 265.1085(f)(3) 265.1090(b)(2)(iii)(B) 335.152(a)(19) 265.1085(f)(2) 264.1084(f)(1) 264.1088(a) 264.1088(b) 265.1085(f)(1) 264.1084(f)(2) 264.1089(b)(2)(iii)(A) 264.1089(b)(2)(iii)(B)	
I	Is the floating roof equipped with two continuous seals, one above the other?			
II	Are all openings, except automatic bleeder and rim space vents, secured in the closed position?			
III	Are automatic bleeder vents, rim space vents, guide poles, gauge hatch and sample wells equipped with a gasket or gasket cover and remain closed except when the roof was being floated off, the pressure exceeded manufacturer's recommendations, or access was necessary?			
IV	Were inspections to determine the seal gap performed every 5 years (or after being out of service for 1 year or more) as well as annual visual inspections of the floating roof?			

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IHW CEI SUBPART CC (Cont)

V	Did the inspection records include dates, raw data measurements, calculations, and detailed descriptions of any repairs as well as a documented description of the floating roof design and dimensions of the tank?			
VI	Was notification provided?			
C	A tank that vents to a control device with the following requirements:	. . . . . . . . . . . . . . . . . .	264.1084(g)(3) 265.1085(g)(1) 265.1089(b) 265.1089(a) 265.1085(g)(2) 264.1088(a) 264.1088(b) 264.1084(g) 264.1084(g)(1) 264.1084(g)(2) 262.34(a)(1) 335.112(a)(21) 335.69(a)(1) 335.152(a)(19)	
I	Is the tank covered by a fixed roof designed to form a continuous barrier over the surface of the liquid and vented directly through a closed-vent system?			
II	Are all openings not vented to the control device equipped with a closure device which does not exhibit any visible cracks, holes, gaps, or other open spaces?			
III	Are the roof and control devices made of suitable materials that minimize the exposure of hazardous waste to the atmosphere?			
IV	Is the closed-vent system and control device operated and inspected in accordance with the requirements in 264.1087 / 265.1088 (ref. Subpart AA)?			
V	Were all vapors vented to the control device except during inspections, cleanouts, samplings, or to avoid unsafe condition?			
VI	Were inspections of the air emission control equipment performed annually?			
D	Pressure tank meeting the following requirements:	. . . . . . . . . . .	265.1085(h)(1) 335.69(a)(1) 335.152(a)(19) 265.1085(h)(2) 265.1085(h)(3) 264.1084(h)(1) 264.1084(h)(2) 264.1084(h)(3) 262.34(a)(1) 335.112(a)(21)	
I	Was the tank designed NOT to vent to the atmosphere as a result of compression of the vapor headspace in the tank during filling to its design capacity?			
II	Were all tank openings equipped with closure devices designed to operate with "no detectable organic emissions" as specified in 264.1083(d) / 265.1084(d)?			
III	Was the tank operated as a closed system that didn't vent to the atmosphere except when required to avoid an unsafe condition or when purging of inerts?			

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**IHW CEI SUBPART CC (Cont)**

E	An enclosure vented through a closed-vent system to an enclosed combustion control device meeting the following requirements:		264.1084(i)(4) 264.1084(i)(3) 264.1089(b)(2)(iv)(A) 264.1089(b)(2)(iv)(B) 262.34(a)(1) 265.1090(e) 335.112(a)(21) 265.1085(i)(3) 265.1085(i)(4) 265.1090(b)(2)(iv)(B) 264.1089(e) 335.152(a)(19) 264.1084(i)(1) 264.1084(i)(2) 265.1085(i)(2) 335.69(a)(1) 265.1085(i)(1) 265.1090(b)(2)(iv)(A)	
I	Is the tank located inside an enclosure designed and operated in accordance with "Procedure T-Criteria for and Verification of a Permanent or Temporary Total Enclosure" under 40 CFR 52.741?			
II	Was the enclosure vented through a closed-vent system to an enclosed combustion control device operated and inspected as specified in 264.1087 / 265.1088?			
III	Did the records include the most recent calculations and measurements performed to verify that the enclosure meets the criteria as well as information required closed-vent systems and control devices?			
6	Was the transfer of the hazardous wastes conducted by using continuous hard-piping or other closed system? (Does not apply to wastes treated by organic destruction/removal or wastes meeting LDR standards)		335.112(a)(21) 335.69(a)(1) 264.1084(j) 335.152(a)(19) 265.1085(j) 262.34(a)(1)	
7	If a defect was detected, was the initial attempt to repair it performed within 5 days and the repair completed within 45 days or later if removal from service required?		264.1084(k) 265.1085(k)(1) 265.1085(k) 264.1084(k)(1) 335.152(a)(19) 335.112(a)(21) 335.69(a)(1) 262.34(a)(1)	
8	For any covers designated as "unsafe to inspect and monitor" covers, did the O/O prepare a written explanation of the designation, the identification number of the management unit, and an inspection schedule?		264.1088(b) 264.1088(a) 265.1089(a) 264.1084(l)(1) 335.69(a)(1) 265.1090(g) 265.1085(l)(1) 264.1089(g) 335.112(a)(21) 335.152(a)(19) 262.34(a)(1) 265.1089(b)	
9	Other violations regarding tanks			
A	Other violations regarding tanks			
B	Other violations regarding tanks			

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**IHW CEI SUBPART CC (Cont)**

C	Other violations regarding tanks			
	<b>SURFACE IMPOUNDMENTS</b>			
1	Is the floating membrane cover fabricated from a synthetic membrane with no visible spaces that is vented through a closed-vent system to a control device documented, designed, operated, inspected, and recorded in accordance with the requirements of 264.1087 / 265.1088?		265.1086(b)(1) 264.1089(c) 264.1085(c)(2) 264.1085(c)(1) 264.1085(b)(2) 264.1085(b)(1) 265.1086(d)(1) 265.1086(c)(2) 265.1086(c)(1) 265.1086(b)(2) 335.152(a)(19) 264.1088(b) 264.1088(a) 264.1085(d)(1) 265.1089(a) 265.1090(c) 265.1086(d)(3) 265.1089(b) 264.1085(c)(3) 265.1086(c)(3) 264.1085(d)(3)	
2	Are the vapors vented to the control device and are the closure devices secured in the closed position except during inspections, sampling, cleanouts, and to avoid unsafe conditions?		264.1085(d)(2) 265.1086(d)(2) 335.152(a)(19)	
	<b>CONTAINERS</b>			
1	Is the facility utilizing the appropriate Container Level (1, 2, or 3)?		265.1087(b)(2) 335.69(a)(1) 265.1087(b)(1) 265.1087(b)(1)(i) 265.1087(b)(1)(ii) 264.1086(b)(2) 264.1086(b)(1) 264.1086(b)(1)(ii) 264.1086(b)(1)(iii) 264.1086(b)(1)(i) 265.1087(b)(1)(iii) 262.34(a)(1) 335.152(a)(19) 335.112(a)(21)	
2	For Container Level 1 Standards, is one of the following controls used?		335.152(a)(19) 262.34(a)(1) 264.1086(c) 265.1087(c) 335.112(a)(21) 335.69(a)(1)	
A	Does the container meet DOT standards and remain closed except when adding waste, inspecting the container, to avoid an unsafe condition, or when empty?		335.152(a)(19) 262.34(a)(1) 265.1087(c)(3) 264.1086(c)(1)(i) 264.1086(c)(3) 265.1087(c)(1)(i) 335.112(a)(21) 335.69(a)(1)	

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**IHW CEI SUBPART CC (Cont)**

B	A container equipped with a cover and closure devices made of suitable material that form a continuous barrier such that there are no visible holes, gaps, or other open spaces?	.	265.1087(c)(2) 335.69(a)(1) 335.112(a)(21) 262.34(a)(1) 264.1086(c)(1)(ii) 264.1086(c)(2) 265.1087(c)(1)(ii) 335.152(a)(19)	
C	An open-top container using an organic-vapor suppressing barrier made of suitable material to prevent the exposure of hazardous waste to the atmosphere (ie. vapor suppressing foam)?	.	264.1086(c)(1)(iii) 265.1087(c)(1)(iii) 262.34(a)(1) 335.69(a)(1) 335.112(a)(21) 335.152(a)(19)	
D	Does the O/O have a procedure in place to determine that containers > 0.46m <sup>3</sup> (121 gal) NOT meeting DOT standards are not in light material service?	.	335.112(a)(21) 335.152(a)(19) 335.69(a)(1) 265.1087(c)(5) 262.34(a)(1) 264.1086(c)(5)	
3	For Container Level 2 Standards, is one of the following controls used?	.	335.152(a)(19) 335.112(a)(1) 335.69(a)(1) 265.1086(d)(1) 262.34(a)(1) 264.1086(d)(1)	
A	Does the container meet DOT standards and remain closed except when adding waste, inspecting the container, to avoid an unsafe condition, or when empty?	.	335.152(a)(19) 335.112(a)(1) 264.1086(d)(1)(i) 335.69(a)(1) 265.1087(d)(3) 264.1086(d)(3) 262.34(a)(1) 265.1087(d)(1)(i)	
B	Does the container operate with "no detectable organic emissions" as defined in 265.1081 using the procedure in 265.1084(d) / 264.1083(d) [ref. Method 21]?	.	335.112(a)(21) 335.152(a)(19) 264.1086(d)(1)(ii) 265.1087(d)(1)(ii) 265.1087(g)(1) 335.69(a)(1) 265.1087(g) 262.34(a)(1) 264.1086(g) 264.1086(g)(1) 264.1086(g)(2) 265.1087(g)(2)	
C	Is the container a container that has been demonstrated to be vapor-tight using 40 CFR part 60, appendix A, Method 27 within the preceding 12 months?	.	335.112(a)(21) 335.152(a)(19) 264.1086(d)(1)(iii) 265.1087(d)(1)(iii) 265.1087(h) 265.1087(h)(1) 335.69(a)(1) 265.1087(h)(3) 264.1086(h)(1) 264.1086(h)(2) 264.1086(h)(3) 262.34(a)(1)	



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IHW CEI SUBPART CC (Cont)

			264.1086(h) 265.1087(h)(2)	
4	For containers using Level 1 or 2 controls, were the following inspections performed and requirements met:		335.112(a)(21) 264.1086(d)(4) 335.152(a)(19) 335.69(a)(1) 265.1087(d)(4) 264.1086(c)(4) 262.34(a)(1) 265.1087(c)(4)	
A	Did the containers remain secured in the closed position except when adding or removing hazardous waste, performing routine maintenance, sampling or when empty?		335.112(a)(21) 335.152(a)(19) 265.1087(c)(3) 335.69(a)(1) 264.1086(d)(3) 262.34(a)(1) 264.1086(c)(3) 265.1087(d)(3)	
B	Were inspections performed and recorded at the time the container was accepted (if not emptied within 24 hours) and at least every 12 months thereafter to check for visible cracks, gaps, holes or other open spaces?		335.152(a)(19) 264.1086(d)(1)(ii) 265.1087(c)(4)(i) 265.1087(c)(4)(ii) 265.1087(d)(1)(i) 335.112(a)(21) 264.1086(c)(4)(i) 264.1086(c)(4)(ii) 264.1086(d)(1)(i) 262.34(a)(1) 335.69(a)(1) 265.1087(d)(1)(ii)	
C	Was the initial attempt to repair a detected leak within 24 hours, completed within 5 days, or removed from service?		335.112(a)(21) 335.152(a)(19) 265.1087(c)(4)(iii) 265.1087(d)(4)(iii) 264.1086(d)(4)(iii) 264.1086(c)(4)(iii) 262.34(a)(1) 335.69(a)(1)	
5	For Container Level 3 Standards, was one of the following controls used?		265.1087(e) 264.1086(e) 262.34(a)(1) 335.69(a)(1) 335.112(a)(21) 335.152(a)(19)	
A	A container directly vented through a closed-vent system to a control device designed and operated in accordance with the requirements of 265.1088 / 264.1087?		262.34(a)(1) 335.112(a)(21) 264.1086(e)(1) 265.1087(e)(1) 335.152(a)(19) 335.69(a)(1)	
B	A container that is vented inside an enclosure which is exhausted through a closed-vent system to a control device designed and operated in accordance with the requirements of 265.1088 / 264.1087 and with the criteria as specified in "Procedure T-Criteria for and Verification of a Permanent or Temporary Total Enclosure"?		262.34(a)(1) 264.1086(e)(2)(i) 265.1087(e)(2)(ii) 265.1087(e)(2)(i) 264.1086(e)(2)(ii) 335.112(a)(21) 335.152(a)(19) 335.69(a)(1)	

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**IHW CEI SUBPART CC (Cont)**

C	Were inspections and monitoring conducted of the closed-vent systems and control devices in accordance with 265.1088 / 264.1087?		265.1087(e)(4) 335.152(a)(19) 335.112(a)(21) 335.69(a)(1) 264.1086(e)(4) 262.34(a)(1)	
D	Did records include the most recent set of calculations and measurements to verify that the enclosure meets the criteria as specified in "Procedure T" under 40 CFR 52.741, appendix B as well as all records required in 265.1088 / 264.1087?		265.1090(d)(1) 335.112(a)(21) 265.1090(d)(2) 264.1089(e) 264.1089(d)(2) 265.1090(d) 265.1090(e) 265.1087(e)(5) 264.1089(d)(1) 264.1089(d) 335.152(a)(19) 335.69(a)(1) 262.34(a)(1)	
6	For containers using Level 2 or 3 controls, was the transfer of hazardous waste conducted in such a manner as to minimize the exposure of hazardous waste to the atmosphere?		335.112(a)(21) 335.152(a)(19) 264.1086(e)(6) 265.1087(d)(2) 262.34(a)(1) 335.69(a)(1) 265.1087(e)(6) 264.1086(d)(2)	
7	Other violations regarding containers			
A	Other violations regarding containers			
B	Other violations regarding containers			
C	Other violations regarding containers			
	<b>RECORDKEEPING</b>			
1	Are inspection records kept for a minimum of three years?		335.152(a)(21) 265.1090(a) 262.34(a)(1) 264.1089(a) 335.69(a)(1) 335.152(a)(19)	
2	Is the design documentation kept for the life of the equipment?		265.1090(a) 335.152(a)(19) 264.1089(a) 262.34(a)(1) 335.112(a)(21) 335.69(a)(1)	
3	For each hazardous waste management unit (WMU) not using air emission controls specified in this subpart, did the O/O provide a certification that the WMU is equipped with operating controls in accordance with the Clean Air Act under 40 CFR part 60, 61, or 63 and identify the specific requirements with which the WMU is in compliance?		335.69(a)(1) 262.34(a)(1) 264.1089(j)(2) 335.152(a)(19) 264.1089(j)(1) 265.1090(j)(2) 265.1090(j)(1) 265.1090(j) 264.1089(j) 335.112(a)(21)	
	<b>OTHER VIOLATIONS</b>			
1	<b>OTHER VIOLATIONS</b>			
2	<b>OTHER VIOLATIONS</b>			

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IHW CEI SUBPART CC (Cont)

3	OTHER VIOLATIONS			
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