

Michigan Department of Environment, Great Lakes, and Energy

TSDF TANK SYSTEM INSPECTION FORM

Facility's Name	Part 6 Rules
Date ID#	1994 PA 451
FACILITY COMPLIANCE REQUIRED IN ALL AREAS	
NOTE: Rule 615 refers to 40 CFR 264, Subpart J, 264.190-264.231	
GENERAL OPERATING REQUIREMENTS (Rule 615(1): 40 CFR 264)	
(NI = Not Inspected, N/A = Not Applicable)	YES NO
1. Can wastes placed in tank system cause ruptures, leaks, corrosion or other failure? (264.194 (a))	DTR _ [] NI N/A
2. Controls & practices to prevent spills & overflows must include: (264.194(b))	
a) spill prevention controls. (264.194(b)(1))	DTR [_] NI N/A
b) overfill prevention controls. (264.194(b)(2)).	DTR [_]_ NI N/A
c) freeboard in uncovered tanks to stop overtopping by wave or wind action or precipitation. (264.194 (b)(3)).	DTR [_]_ NI N/A
NOTE: Response to leaks, spills and disposition of leaking or unfit-for-use tank systems is in 40 CFR 264.196.	
3. A tank system or secondary containment system from which there has been a leak, spill or which is unfit for use, is it:	
a) removed from service immediately? (264.196)	DTR [_] _ NI N/A
b) completed requirements in 264.196(a-f)	DTR [_]_NI N/A
INSPECTIONS (Rule 615(1): 40 CFR 264.195)	
4. Where present, does the facility inspect at least once each operating day: (264.195(a))	T
a) discharge, overflow/spill control equipment (daily)? (264.195(a)(1))	DTR [_] NI N/A
b) monitoring equipment data (daily)? (264.195(a)(3))	DTR [_] NI N/A
c) above ground portion of tank system (daily)? (264.195(a)(2))	DTR [_] _ NI N/A
d) materials and area around tank (daily)? (265.194(a)(4))	DTR [_] _ NI N/A
e) Are the inspections documented? (264.195 (c))	DTR [_] _ NI N/A
5. Must inspect cathodic protection system, if present, for in-ground tanks:	
a) Cathodic protection within six months after initial installation (annually thereafter). (264.195 (b) (1))	DTR [_] _ NI N/A
b) Impressed current inspected and/or tested at least bimonthly. (264.195 (b) (2))	DTR [_] _ NI N/A
c) Are the inspections documented? (264.195(c))	DTR NI N/A
SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE (Rule 615(1)(4)(5): 40 C	FR 264.198)
6. Ignitable or reactive waste must not be placed in tanks unless:	
a) treated/mixed before or immediately after placed in the tank system, so: (264.198(a)(1))	
i) resulting mixture is no longer ignitable/reactive. (264.198(a)(1)(i))	DTR [_] _ NI N/A
ii) does not cause environmental or structural damage to tank systems. (264.198(a)(1)(ii))	DTR NI N/A
OR	
b) waste stored/treated so it is protected from igniting or reacting. (264.198(a)(2))	DTR [_] _ NI N/A
OR	
c) tank system is used solely for emergency. (264.198(1)(3))	DTR [_] _ NI N/A
7. Observes National Fire Protection Association's buffer zone for tanks w/ ignitable or reactive wastes? (264.198(b)) (See tables 2-1 through 2-6 of NFPA's Flammable & Combustible Liquids Code - 1977" to determine compliance)	DTR NI N/A
8. Is the tank system designed, constructed, operated and maintained in conformance with requirements of Act 207, Michigan flammable liquid regulations. (Rule 615(4))	DTR CO. SAID NI N/A
9. Is the tank labeled in accordance with NFPA standard # 704? (Rule 615(5))	DTR [_]_NI N/A

INCOMPATIBLE WASTE (Rule 615(1): 40 CFR 264.199)		YES	NO)
10. Are incompatible wastes stored in separate tanks? (264.199(a)) (If not, the provisions of 264.17(b) apply).	DTR]	NI N/A
11. Tank decontaminated before hazardous waste placed in it that held incompatible waste, unless 264.17(b). (264.199(b).	DTR	[]	NI N/A
CLOSURE AND POST-CLOSURE (264.197) NOTE: At tank system closure refer to 264.197 for closure/post closure care, except 264.197(c).				
12. If the tank system is closed, does the facility follow the requirements in 264.197? (264.197).	DTR	[]	NI N/A
EXISTING TANK SYSTEMS REQUIREMENTS FOR EXISTING TANK(S) CONTAINING LIQUID WASTE THAT DO NOT MEET THE REQUIREMENTS OF 264.193 (Rule 615)(2)				
13. Are above ground tanks:				
a) paved, diked or cubed or otherwise enclosed to contain not less than 100% of the largest tank? (Rule 615(2)(a))	DTR]	NI N/A
b) Do incompatible wastes or interconnected tanks have 100% containment for each tank? (Rule 615(2)(a))	DTR]	NI N/A
14. For underground tanks:				
a) is there secondary containment and a leachate withdrawal system? (Rule 615(2)(b)(i))	DTR]	NI N/A
b) does facility complete an inventory of wastes not less than twice a month? (Rule 615 (2)(b)(ii))	DTR]	NI N/A
c) is leachate sampling analysis done at least once per year (if b shows loss, sample within 24 hours)? (Rule 615(2)(b)(iii)) DTR]	NI N/A
Note: If existing tanks do not have secondary containment meeting RCRA, the facility must assess the existing tank system's Note: The determination that secondary containment does or does not meet the standards in 265.193 can be made by the concequire a certification by an independent engineer. Note: Tanks w/out free liquids in a building w/ impermeable floor & tanks part of secondary containment system are exempt (2)	mpany.	It do	es n	
ASSESSMENT OF EXISTING TANK SYSTEM'S INTEGRITY (Rule 615(1): 40 CFR 264.1		ı		
15. If existing tank system (before 7/14/86) does not meet the secondary containment requirements in 265.193, was an assess made and certified by an independent engineer? (264.191)	DTR	[1_	NI N/A
CONTAINMENT AND DETECTION OF RELEASES (Rule 615):40 CFR 264.193)				
16. Until an existing tank is upgraded to meet the secondary containment requirements in 265.193 has the facility: (264.193(i))				
a) performed leak test meeting requirement of 264.191(b)(5) annually for non-enterable underground tank? (264.193(i)(1)) DTR		!	NI N/A
b) For other than non-enterable underground tanks and ancillary equipment, the facility must:				
i) conduct an annual leak test that meets the requirements of 264.191(b)(5). (264.193(i)(2))	DTR		ا	NI N/A
OR				
ii) do an internal inspection or other tank integrity exam by independent, qualified, reg. prof. engineer. (264.193(i)(2))	DTR	Ш	^	II N/A
17. Secondary containment & detection that meets the requirements, must be provided for: (264.193)a))				
a) new tank systems prior to being put into service (any tank installed after 7-14-86). (264.193(a)(1)	DTR			NI N/A
b) existing tanks used for F020, F021, F022, F023, F026, F027 prior to 1/12/90. (264.193(a)(1))	DTR	_		NI N/A
c) existing tanks w/ documented age before 1/12/90 or tanks 15 years of age, which is later. (264.293(a)(3).	DTR			NI N/A
d) existing tank system, w/out documented age, upgrades done by 1/12/96 unless facility is greater than 7 years in 1988, then ontainment provided before facility reaches 15 years or by 1/12/90 which is later. (264.193(a)(4))	DTR	_		NI N/A
e) wastes which became hazardous waste after 1/12/87. (264.193(a)(5))	DTR	_	!	NI N/A
NEW TANK SYSTEMS AND UPGRADED EXISTING TANK SYSTEMS (Rule 615(1):40 CFR 264.193(c))				
18. Secondary containment and detection systems must have the following: (264.193(c))				
a) tank system constructed of compatible material with sufficient strength. (264.193(c)(1))	DTR	\Box	N	I N/A
b) adequate foundation / base. (264.193(c)(2))	DTR		N	I N/A
c) leak detection system designed/operated to detect leaks w/in 24 hours of earliest practical time. (264.193(c)(3)).	DTR	ت]	N	I N/A
d) sloped/drained & all liquid (leaks, precipitation) removed w/in 24 hours or in a timely manner. (264.193 (c)(4)).	DTR	ت	N	I N/A
e) must include one or more of the following:				
i) a liner (external to tanks) which satisfies the following requirements. (264.193(d)(1))				
A) 100% capacity of largest tank within its boundary. (264.193(1)(i))	DTR	<u> </u>	N	I N/A
B) prevent run-on or infiltration of precipitation unless excess of capacity. (264.193(e)(1)(ii))	DTR	\Box	N	I N/A

C) free of cracks or gaps. (264.193(e)(1)(iii))

DTR ___ NI N/A

D) cover any area waste may come in contact with if released. (264.193(e)(1)(iv))	DTR] NI N/A
CEMENT LINERS ONLY Note: If liner is cement then, must have, in addition, 264.193(e)(2)(iii & iv)		YES NO
E) constructed with chemical resistant water stops in place at all joints. (264.193(e)(2)(iii))	DTR] NI N/A
F) impermeable, compatible interior lining or coating. (264.193(e)(2)(iv))	DTR] NI N/A
ii) a vault systems which satisfies the following requirements. (264.193(e)(2)(i-iv))(264.175(b)(3))		
A) 100% capacity of the largest tank within its boundary. (264.193(e)(2)(i))	DTR] NI N/A
B) prevent run-on or infiltration of precipitation unless excess of capacity. (264.193(e)(2)(ii))	DTR] NI N/A
C) constructed with chemical resistant water stops in place at all joints. (264.193(e)(2)(iii))	DTR] NI N/A
D) impermeable, compatible interior lining or coating. (264.193(e)(2)(iv))	DTR] NI N/A
E) if ignitable or reactive, then provide against vapor formation and ignition. (264.193(e)(2)(v))	DTR] NI N/A
F) provide with exterior moisture barrier. (264.193(e)(2)(vi))	DTR] NI N/A
iii) double wall tanks which satisfy the following requirements: (264.193(d)(3))		
A) designed as integral structure (inner tank with outer shell). (264.193(d)(3)(i))	DTR] NI N/A
B) protect metal surface for corrosion (interior and exterior). (264.193(e)(3)(ii))	DTR	NI N/A
C) capable of detecting releases within 24 hours. (264.193(e)(3)(iii))	DTR	NI N/A
f) Ancillary equipment (note certain exclusions) must be provided with full secondary containment. (264.193)(f))	DTR] NI N/A
NEW TANK OVETENO		
NEW TANK SYSTEMS DESIGN AND INSTALLATION OF NEW TANK SYSTEMS OR COMPONENTS (264.19)	92)	
19. Facility obtained written assessment reviewed & certified (270.11(d)) by an independent qualified registered profession	al engine	er containing:
a) design standards and considerations? (264.192(a)(1)&(5))	DTR	NI N/A
b) hazard characteristics of the waste(s) to be handled? (264.192(a)(2))	DTR] NI N/A
c) determination by corrosion expert, (if ext. shell of metal tank or metal part in contact w/ soil or water)? (Rule 615(3): (264.192(a)(3))	DTR	NI N/A
d) if needed, design considerations for UST systems affected by vehicular traffic? (264.192(a)(4))	DTR	NI N/A
20. New tank/component & piping underground is backfilled w/non-corrosive, porous, homogeneous material & carefully compacted? (264.192(c))	DTR	NI N/A
21. All new tanks/ancillary equipment tested for tightness before covered, enclosed, put in use? (264.192(d))	DTR	NI N/A
22. If new tank system wasn't tight, were repairs made before covered, enclosed, put in use? (264.192(d))	DTR	NI N/A
23. Is ancillary equipment supported/protected against damage & stress? (264.192(e)).	DTR	NI N/A
24. Corrosion protection provided? (264.192(f))	DTR	NI N/A
25. Field fabricated corrosion protection supervised by independent expert? (264.192(f))	DTR	NI N/A
26. Was written statement kept on file at the facility and certified? (264.192(g))	DTR	NI N/A
COMMENTS:		
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