

Underground Storage Tank Training Checklist

Facility: _____										
Facility ID: _____					Red Tag	Trainer	Date	Supervisor	Date	
Code violations indicated with mark in "Viol." column.										

A. Tank Leak Detection

1) All new and existing tank systems shall be provided with leak detection that complies with s.ATCP 93.515	ATCP 93.510(1)(a)	tank	D							
a. Install approved method of leak detection		tank								
b. Submit for plan approval using form TR-WM-133 (ERS-9LD existing form)		tank								
c. Information: Immediate red tag per ATCP 93.115(3)(a)2		tank								
2) ATG passing monthly tank tests from automatic tank gauge.	ATCP 93.515(5)	tank	D							
a. No more than 30 days between test reports		tank								
b. Leak detection records must be available for inspection for 1 year		tank								
c. 2 consecutive months without passing test requires a precision test within 10 business days.		tank								
d. information: testing results obtained from leak detection equipment may be from the equipment's printer or a hand-written log kept on site	ATCP 93.500(9).2(b)	tank								
3) IM tank interstitial monitoring monthly status report.	ATCP 93.510(3)	tank	D							
a. Monthly IM monitoring reports must be kept for 1 year		tank								
b. Results may be from equipment printer or a hand written log on site		tank								
c. Alarms must be assessed within 7 business days		tank								
d. Information: testing results obtained from leak detection equipment may be from the equipment's printer or a hand-written log kept on site	ATCP 93.500(9).2(b)	tank								
4) SIR statistical inventory reconciliation current records on site.	ATCP 93.515(6)	tank	D							
a. Operators submit monthly data to vendor within 4 business days		tank								

b. Daily tank product inventory records shall be maintained current and be maintained on site.		tank							
c. SIR vendor shall analyze the data and supply a summary report to the operator on a monthly basis.		tank							
d. SIR vender to return summary report to submitter within 10 business days of postmark on submittal		tank							
e. Operators shall review summary report within 24 hours of receipt if the report indicates a failure the operator will take immediate action in accordance with ATCP 93.575 to 93.585 for assessing and responding to a release.		tank							
f. Operators receiving reports indicating fail or inconclusive results for 2 out of 3 months shall have a precision test within 7 calendar days		tank							
5) Manual tank gauging practices and monthly reconcile.	ATCP 93.515(3)	tank	D						
a. Provide manual tank gauging results for tanks of 1000 gallon or less capacity		tank							
b. Provide manual tank gauging (monthly) records and precision tightness test every 5 years until the tank is 10 years old 1000 to 2000 gallon size tanks		tank							
c. Provide monthly monitoring test results for tanks >1000 gallons which are more than 10 years old		tank							
6) Inventory control and five-year tank tightness test.	ATCP 93.510(3)(d)	tank	D						
a. Provide precision tank test at tank start-up and test at 5 years after installation, test at 10th year and change the means of leak detection using form TR-WM-133 (ers-9 ld old form)		tank							

B. Line leak detection

1) All new and existing tank systems shall be provided with leak detection that complies with s.ATCP 93.515	ATCP 93.510(1)(a)	tank	D						
a. Immediately red tag system without leak detection		tank							
b. Add leak detection to system use form tw-wm-133 (old form ers-9 ld)		tank							

c. Information: immediate red tag per ATCP 93.115(3)(a)2 until leak detection is in place		tank							
2) ELLD pressurized line monthly 0.2 gph test or annual 0.1 gph precision test reports	ATCP 93.510(4)(a)	tank	D						
a. Must have available for inspection monthly .2 test results for 1 year or annual.1 precision test of piping		tank							
b. Method of leak detection used must match site permit to operate		tank							
c. Fail or inconclusive for 2 consecutive months requires a precision tightness test be performed within 10 business days.	ATCP 93.510(4)4	tank	D						
d. Failure to pass the precision test requires the site to be assessed for the presence of a release in accordance with 93.575 to 93.585.		tank							
e. Testing results obtained from leak detection equipment may be from the equipment's printer or a hand-written log kept on site	ATCP 93.500(9).2(b)	tank							
f. Information: a change in method (example .1 annual test to .2 monthly monitoring) requires form TR-WM-133 (formerly ERS-9 Id) be submitted within 5 days.		tank							
3) Annual precision tightness test (pressurized piping)	ATCP 93.515(8)(c)	tank	D						
a. An annual .1 precision test must be performed by a certified tank system tightness tester. Form TR-WM-125 (old form ERS-10778 It) may be used.		tank							
4) Piping interstitial monitoring monthly status report.	ATCP 93.510(4)3	tank	D						
a. Monthly IM monitoring reports must be kept for 1 year		tank							
b. Information: 1) testing results obtained from leak detection equipment may be from the equipment's printer or a hand-written log kept on site	ATCP 93.500(9).2(b)	tank							
2) secondary containment required on all systems installed after 1-feb-2009	ATCP 93.500(1)(a)	tank							
5) Automatic line leak detector required mechanical or electronic	ATCP 93.515(8)(b)	tank	D						
a. Install a leak detector that will detect a leak of 3gph @ 10 psi within 1 hour in the pressurized underground piping system.		tank							

b. Changes in method of leak detection or manufacturer require model number plan review form TR-WM-133 be submitted with fees within 5 days of change. (old form ers-9 ld)		tank							
6) Annual testing of electronic or mechanical line leak detector.	ATCP 93.515(8)(d)	tank	D						
a. An induced leak 3.0gph @ 10psi must be placed on a mechanical or electronic line leak detector and documented annually		tank							
b. Test report must be available for inspection for a period of 2 years may use form TR-WM-123 (old form ERS-10778 LLD)		tank							
7) Standard suction piping monthly interstitial monitoring or precision tightness test every three years.	ATCP 93.510(4)(b)1	tank	D						
a. Provide monthly i.m. records for a period of 1 year or provide a precision tightness test completed within a 3 year period		tank							
b. Information:testing results obtained from leak detection equipment may be from the equipment's printer or a hand-written log kept on site precision tightness test may use form TR-WM-125 (old form ERS-10778 lt)	ATCP 93.500(9).2(b)	tank							

C. Corrosion protection

1) Installation and application of corrosion protection	ATCP 93.520(1)a	tank	P						
a. Vent lines, vapor lines and any portion of a tank system that routinely contains product and is contact with the ground or water shall be protected from corrosion.		tank							
2) CP test within 6 months and annual thereafter	ATCP 93.520(1)(d)	tank	P						
a. Provide annual cp test report completed by certified individual within 6 months of repair and annually thereafter. Form TR-WM-141 must be used (old form ERS-10778)		tank							
3) Impressed current cathodic protection system inspected and logged every 60 days.	ATCP 93.520(1)(d)2	tank	P						

a. Provide inspector with test log of recorded rectifier amp/volt readings recorded a minimum of every 60 days by the site operator (and)		tank							
b. Provide an annual test of system completed by a certified cp tester		tank							
c. Using form TR-WM-141 (ERS-10785 old form)		tank							
4) CP test number/location of soil readings requirement	ATCP 93.520(1)(d).1. b	tank	P						
a. A minimum of 3 readings across the tank and 1 reading remote from the structure is required. Form TR-WM-141 must be used and retained for the previous 3 tests performed (old form ERS-10785)		tank							
5) Failing sacrificial anode systems	ATCP 93.520(2)	tank	P						
a. System must maintain -850mv or more negative reading		tank							
b. Unless arrangements are made with ahj or department to conduct follow-up testing the cause of the failure shall be investigated and repaired within 90 days of the failed reading. Or the entire tank system shall be emptied in accordance with ATCP 93.545(1)(a)2.b within 90 days of the failed reading, and shall remain empty until the repair is completed.		tank							
c. If more than 2 years has elapsed since the previous corrosion test, or if the system has been inoperable for 2 years or more, an internal inspection shall be performed by a third party in accordance with the following standards: lined tanks API 1631 or kwa unlined tanks ASTM g 158 if the tank system fails the internal inspection the tank shall be permanently closed or the tank shall be lined or any present lining shall be repaired in accordance with API 1631 and an impressed current corrosion system shall be installed		tank							
6. CP system not operated continuously	ATCP 93.520(c)2	tank	P						
a. CP systems must be operated and maintained to provide continuous protection		tank							

7. Failing impressed current systems	ATCP 93.520(3)(b)	tank	P						
a. Have system analyzed by a certified corrosion expert		tank							
b. Information:) if protection readings indicate the system is not maintaining adequate continuous protection the system shall be analyzed by a certified corrosion expert for site corrosion potential and qualification of system functionality.		tank							
8. Inoperative impressed current systems	ATCP 93.520(3)(c)	tank	P						
a. <120 days -power shall be restored and the system shall be tested by a certified cp tester for system functionality if the system is damaged or inoperable a certified corrosion expert shall repair, survey and re-commission the system		tank							
b. Impressed current system inoperative 121 to 180 days require:		tank							
c. A precision tightness test of the system within 15 days of discovery		tank							
d. Power shall be restored and the system shall be tested for system functionality by a certified cp tester if the system is damaged or inoperable a certified corrosion expert shall repair, survey and re-commission the system		tank							
e. Inoperative 181 to 365 days require:		tank							
f. The tank system to be precision tested within 15 days of discovery.		tank							
g. A certified corrosion expert shall assess, survey and re-commission the impressed current system and perform any necessary repairs		tank							
h. Inoperative more than 365 days require: a) an internal inspection of the tank. if the tank fails the tank shall be repaired and lined or have the lining repaired or permanently close and remove the tank		tank							
9) Rectifier hour meter ammeter requirements	ATCP 93.520(3)(a)3	tank	no						
a. Ammeters and hour meters will be installed on all new, and replacement, rectifiers. existing rectifiers will have hour meters and ammeters installed when any system is replaced in whole or part		tank							

D. Tank lining periodic inspection

1) 5 year internal inspection	ATCP 93.535(1)	tank	P						
a. Lined tanks must have an internal inspection every 5 years have internal lining inspection performed		tank							
2) Owner shall notify the authorized agent or department in writing a minimum of 5 days before a lining inspection is performed.	ATCP 93.535(3)	tank	no						
a. Owner shall notify the inspector 5 days prior to an internal lining inspection		tank							
3) Tank lining inspector shall provide a report within 15 days to the owner and a.a. that describes the type of repairs made, total repair dimensions in square inches a schematic drawing of the tank showing area of repairs	ATCP 93.535(7)	tank	P						
a. Report must be given to owner and a.a. within 15 days of inspection		tank							
4) A tank that is repaired to more than 10% of the lined surface must meet API 1637 structural requirements and have impressed current cp protection to be returned to service.	ATCP 93.535(8)	tank	P						
a. Install a impressed current cp protection system		tank							
b. Properly close and remove the tank		tank							

E. Automatic tank gauge (ATG)

1) Tank monitor operating to the manufacturer's specifications.	ATCP 93.230(10)	tank	D						
a. 1) power to monitor. 2) operating panel lights and displays. 3) legible report from printer. 4)date and time correct. 5) no current alarms. 6) buttons operate correctly.		tank							
b. Replace inoperative status lights on tank monitor		tank							
c. Repair / replace printer mechanism.		tank							
d. Repair replace sticking / missing keys on tank monitor		tank							
2) Plan approval for the replacement of leak detection equipment.	ATCP 93.110(3)(e)	tank	NO						

a. Plan review must be submitted when leak detection manufacturer model or change in methodology is changed using form ERS-9LD within 5 days of installation.		tank							
b. Submit plan review for change of leak detection methodology		tank							
c. Submit plan review with double fees (after 15 days non-submittal)	ATCP 93.100(3)(b)	tank							
3) Record of monthly water readings from tank monitor or monthly manual water checks.	ATCP 93.605(1)(g)	tank	NO						
a. Keep a monthly log of manual water checks or ATG tapes showing monthly water checks		tank							
4) Water level in tank exceeds two inches and must be removed within five days.	ATCP 93.605(1)(g)2	tank	NO						
a. Remove water from tank within 5 days		tank							
b. Determine cause of water entry- make corrections		tank							
5) Failed monthly test 2 consecutive months. (required precision test within 10 days.)	ATCP 93.510(3)(b)	tank	NO						
a. Precision test tank within 10 business days		tank							
b. If tank fails precision test site shall be assessed for the presence of a release in accordance with ss.ATCP 93.575 to ATCP 93.585		tank							
6) Failure to respond to release detection alarm or failed test. *must assess suspected or obvious releases within 7 business days.	ATCP 93.575(1)	tank	D						
a. Precision tightness test, the "suspect" system in accordance with ATCP 93.515(4)		tank							
b. Have site assessed for presence of leak in accordance with ATCP 93.580		tank							

F. Tank system vents

1) Vent outlets located away from building openings, and above adjacent rooflines and canopies	PEI 100.10.12	tank	NO						
a. Raise vent line upright above adjacent rooflines and canopies		tank							
2) Vents located or protected against physical damage.	NFPA 30 27.8.2.11	tank	NO						

a. Provide protection against collision from vehicles		tank							
b. Securely mount vent uprights		tank							
c. Do not use vent uprights to mount banners or flags		tank							
3) Vents for tanks storing class i liquids are not connected with tanks storing class ii or class iii liquids.	NFPA 30 27.8.1.5	tank	NO						
a. Separate vents of class ii or iii liquids from class 1 liquids systems plan review is required.		tank							
4) Vents for tanks storing class i liquids outside buildings and 12 feet above adjacent ground.	NFPA 30 28.8.2.1	tank	NO						
a. Insure vent is outside a building and a minimum of 12 feet above ground level		tank							
5) Vents for tanks storing class ii or class iii liquids outside buildings and higher than fill pipe.	NFPA 30 27.8.2.6	tank	NO						
a. Insure vent is located outside and above fill pipe		tank							
6) Vent outlets terminate above normal snow level.	NFPA 30 27.8.2.7	tank	NO						
a. Insure vent outlets are above normal snow level.		tank	NO						
7) Vents for tanks storing class ia liquids equipped with pressure/vacuum vent valves.	NFPA 30 21.4.3.6	tank	NO						
a. Install a pressure/vacuum style vent cap		tank							

G. Overfill and spill protection

1) Outside overfill alarm is not installed.	ATCP 93.505(2)(b)	tank	P						
a. Install an audible visible outside overfill alarm both audible and visible from the tank delivery area.		tank							
2) Sign installed next to overfill alarm stating "tank overfill alarm".	PEI 100 7.3.1	tank	NO						
a. Tank overfill alarm must be labeled "tank overfill alarm"		tank							
3) Outside overfill alarm is properly placed, is functionally audible and visible, and operationally verified through functionality test on ERS-10778.	ATCP 93.505(3)	tank	P						

a. Maintain all spill and overfill equipment to perform as originally intended record annual test on form ERS-10778		tank							
4) Spill bucket is not installed and tight, and drain valve (if equipped) is not functional.	ATCP 93.505(2)(a)	tank	P						
a. Install a new spill bucket that holds a minimum of 5 gallons		tank							
b. Install an approved liner in the existing spill bucket		tank							
c. Replace/repair or properly plug non-functional drain mechanism		tank							
5) Overfill drop tube installed in each tank to shut off fuel flow at 95% of tank capacity.	ATCP 93.505(2)(b)	tank	P						
a. Install overfill drop tube to shut off flow at 95% tank level		tank							
6) Spill bucket, auto shutoff drop tube, and overfill alarm maintained to perform as intended.	ATCP 93.505(3)	tank	P						
a. Maintain all spill and overfill equipment to perform as originally intended, record annual test on form TR-WM-139 (old form ERS-10778)		tank							
7) Auto shutoff drop tube disabled by tank stick or other means. immediate shutdown	ATCP 93.115(3)(a)1	tank	P						
a. Immediately red tag tank fill to stop deliveries into tank		tank							
b. Require overfill drop tube be removed and inspected for damage and operation as manufacturer intended prior to any new deliveries into tank		tank							
c. Information:)if possible check tm overfill alarms / delivery manifest to determine when system was compromised		tank							

H. Tank manways and submersible turbine pump (STP) sumps

1) Electrical in sump properly closed and bayonet electrical connector properly secured.	NFPA 30 7.3.2	facility	NO						
a. Ensure all explosion proof electrical connections are properly closed		facility							
b. Ensure STP electrical bayonet assembly has bolt connection to STP		facility							
2) Surface lids in sound condition to protect equipment from traffic damage.	ATCP 93.230(10)	tank	NO						

a. Replace surface lids that allow vehicle traffic to damage petroleum equipment		tank							
3) Submersible and dispenser sumps shall be kept free of any debris or liquid	ATCP 93.230(10)(b)	tank	NO						
a. Remove liquid and debris from sumps		tank							
4) Secondary containment lids maintained per manufacturer's requirements.	NFPA 30A.6.4.4	tank	NO						
a. Sumps shall be fitted with a protective cover		tank							
5) Sump in sound condition and has no cracks or excessive deformation.	NFPA 30A 6.4.4	tank	P						
a. Sumps shall withstand the external forces to which they can be subjected. repair damaged sump (allowed to be repaired 1 time only)		tank							
b. If repair is not adequate replace sump.		tank							
c. If evidence of a release is found follow procedures of ATCP 93.575		tank							
6) Sump entrance boots properly seal.	ATCP 93.230(10)	tank	P						
a. Replace / repair torn sump entry boots		tank							
b. If evidence of a release is found follow procedures of ATCP 93.575		tank							
7) Sump entry test boots open to allow flow to sensor or of closed system design.	ATCP 93.515(8)3	tank	D						
a. Open test boots on open type im systems to insure a leak will reach a sensor.		tank							
b. Insure crossover tubes are in place on closed systems and at least 1 end of pipeline interstice is open near a down gradient sensor.		tank							
c. Insure a sensor is installed in closed system transition sumps where connections are made using crossover tubes.		tank							
8) Sump sensors are properly positioned at lowest point in sump.	ATCP 93.230(10)	tank	D						
a. Position sump sensors at lowest point in sump (below entry boots)		tank							
9) Pressurized piping system fitted with mechanical or electronic line leak detector.	ATCP 93.510(4)(a)1	tank	D						

a. Install a mechanical or electronic line leak detector capable of shutting down or restricting flow when a leak of 3.0 gph@ 10 psi is detected		tank							
b. Immediately red tag underground pressurized pipeline systems without a mechanical or electronic line leak detector installed.		tank							
10) Solenoid valve installed to prevent gravity flow from tank to dispenser if piping or hose fails when not in use	NFPA30A 4.2.4 Non-Marina	tank	P						
a. Owner/operator to provide plan approval or variance for current system configuration.									
b. Piping modifications require plan approval.									
c. The elevation of the tank can cause a gravity flow to dispenser and a solenoid valve must be installed adjacent to and downstream of the tank outlet valve/point of discharge									
d. Insp info: this only applies if tank elevation can cause a gravity flow to dispenser. The solenoid valve shall be installed upstream of any leak detection device. Mechanical flow restrictors require installation in tee adapter.									
11) Solenoid valve installed to prevent gravity flow from tank to dispenser if piping or hose fails when not in use	NFPA30A 11.2.3 (Marina)	tank	P						
a. Owner/operator to provide plan approval or variance for current system configuration.									
b. Piping modifications require plan approval.									
c. The elevation of the tank can cause a gravity flow to dispenser and a solenoid valve must be installed adjacent to and downstream of the tank outlet valve/point of discharge									
d. This only applies if tank elevation can cause a gravity flow to dispenser. The solenoid valve shall be installed upstream of any leak detection device. Mechanical flow restrictors require installation in tee adapter.									
12) Plan approval for the replacement of leak detection equipment.	ATCP 93.110(3)(e)	tank	no						

a. Plan review must be submitted when leak detection manufacturer model or change in methodology is changed using form TR-WM-133 within 5 days of installation. (ers-9 Id old form)		tank							
b. Submit plan review for change of leak detection methodology		tank							
c. Submit plan review with double fees (after 15 days non-submittal) ATCP 93.100(3)(b)		tank							
13) Flex pipe or flex connectors installed between rigid pipe and tank connections; not stretched or kinked.	ATCP 93.500(2)	tank	NO						
a. Repipe connections to relieve stress on flexible connections		tank							
b. Replace kinked flex connectors.		tank							
14) Evidence of leakage from sump components.	NFPA 30 27.3.2	tank	NO						
a. Repair / replace components to make liquid tight		tank							
b. Information: record leak location and severity in leak section.		tank							
15) Metal pipe in contact with ground or water requires cathodic protection.	ATCP 93.520(1)(a)	tank	P						
a. Provide corrosion protection to all metal pipe in contact with the ground or water.		tank							
16) Tank monitor probe cable grommet in visually good condition.	NFPA 30.23.13.1	tank	NO						
a. All connections for all tank openings shall be liquid and vapor tight repair grommet to manufacturer specifications		tank							
17) Tank risers appear in good condition and are vapor tight.	NFPA 30.23.13.1	tank	P						
a. All connections for all tank openings shall be liquid tight and vapor tight		tank							
b. Information: check riser pipes for signs of corrosion holes.		tank							

I. Tank fills and vapor recovery

1) Tank fill and vapor recovery caps seal tightly.	NFPA 30 23.13.1	tank	NO						
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a. Repair or replace fill caps that do not seal tight		tank							
b. Repair or replace vapor recovery dual point caps that do not seal tight		tank							
c. Repair or replace dual point adaptors that do not function as designed		tank							
2) Tight fill adapter is secure and not damaged.	NFPA 30 23.13.1	tank	NO						
a. Replace damaged tightfill adaptor		tank							
b. Tighten loose tightfill adapter		tank							
3) Auto shutoff drop tube is installed.	ATCP 93.505(2)(b)	tank	P						
a. An auto shut off drop tube set to close at 95% tank fill is required		tank							
b. Install missing or replace standard drop tube with auto shut off drop tube		tank							
4) Spill bucket not damaged, including lid components, and drain valve is functional.	ATCP 93.505(3)	tank	P						
a. Spill bucket must be maintained to mfr specifications		tank							
b. Replace / repair damaged spill bucket / spill bucket cover		tank							
c. Repair / replace or remove and properly plug spill bucket drain valve		tank							
5) Water level in tanks exceeds 2 inches and must be removed within 5 days.	ATCP 93.605(1)(g)2	tank	NO						
a. Remove water within 5 days		tank							
b. Responsible party to determine how water entered tank and repair		tank							
6) Water in tanks when checked with water finding paste cannot exceed	ATCP 94.320	tank	NO						
a. Remove water when >1/4 inch in ethanol product tanks		tank							
b. Remove water when >1 inch in aviation product tanks		tank							
c. Remove water when >2 inches conv gas or diesel product tanks		tank							

J. Dispensers

1) Hoses, nozzles, swivels, and breakaways free of leaks.	NFPA 30 27.3.2	tank	NO						
a. Repair leaks at hoses, swivels, nozzles, and breakaways		tank							

2) Containment sump free of breaks, screws, and not collapsed.	NFPA 30A 6.4.4	tank	P						
a. Sumps shall withstand the external forces to which they can be subjected. repair damaged sump (1 time repair only)		tank							
b. If repair is not adequate replace sump.		tank							
c. If evidence of a release is found follow procedures of ATCP 93.575		tank							
3) Sump entrance boots properly seal.	ATCP 93.230(10)	tank	P						
a. Repair / replace defective or torn sump entry boots		tank							
b. If evidence of a release is found follow procedures of ATCP 93.575		tank							
4) Dispenser and STP sumps must be kept free of liquid and debris	ATCP 93.230(10)(b)	tank	NO						
a. Remove liquid and debris from sumps		tank							
5) Sump entry test boots are open to allow flow to sensor, or of closed system design.	ATCP 93.515(8)(3)	tank	D						
a. Open test boots on open type im systems to insure a leak will reach a sensor.		tank							
b. Insure crossover tubes are in place on closed systems and at least 1 end of pipeline interstice is open near a down gradient sensor.		tank							
6) Sump sensors are properly positioned at lowest point in sump.	ATCP 93.510(1)(c)	tank	D						
a. Position sump sensors at lowest point in sump (below entry boots)		tank							
7) Shear valve operational impairment (test valve fittings, wired open).	ATCP 93.230(10)(a)	tank	NO						
a. Remove all test fittings or gauges from shear valve test port.		tank							
b. Remove any obstruction keeping valve from closing		tank							
c. Insure fusible link is in place and not painted or coated		tank							
8) Pressurized pipeline to satellite dispenser has leak detection.	NFPA 93.515(8)(c)3	tank	D						
a. All portions of pressurized piping must have leak detection		tank							

9) Pressurized pipeline to satellite dispenser exposed to leak detector.	ATCP 93.510(4)(a)1	tank	D						
a. There can be no valves installed in the master dispenser isolating the leak detector from the line to the satellite dispenser.		tank							
10) No leaks at piping, flex, shear valve, or dispenser components.	NFPA 30 27.3.2	tank	NO						
a. Repair leaks at dispenser components flex, shear valve, or piping		tank							
b. If evidence of a release is found follow procedures of ATCP 93.575		tank							
c. Information:) record leak location and severity in leak section.		tank							
11) Where the height of the liquid in the tank may be higher than the pump, a pressure-regulating valve shall be installed directly under the suction pump.	NFPA 30A 6.3.10	tank	No						
a. Owner/operator to provide plan approval or variance for current system configuration.									
b. Install pressure-regulating valve at base of suction pump									
c. Inspector note; this was not a code requirement prior to July 2002, and is not retroactive.									

K. Conditions indicating a release

1) Unusual operating conditions such as erratic behavior of dispensing equipment, loss of product, or unexplained presence of water in the tank. Must follow procedures of ATCP 93.575 within 7 business days.	ATCP 93.570(1)	tank	D						
a. Follow procedures of ATCP 93.575 within 7 business days		tank							
2) Monitoring results from a leak detection device indicating a release may have occurred. (Must follow procedures of ATCP 93.575 within seven business days.)	ATCP 93.570(2)	tank	D						
a. Follow procedures of ATCP 93.575 within 7 business days		tank							
3) Offsite impacts such as the presence of contaminated soils, or free product, dissolved phase product, or vapors in soils, basements, sewer or utility lines or nearby waters of the state. (Must follow procedures of ATCP 93.575 within seven business days.)	ATCP 93.570(3)	tank	D						

a. Follow procedures of ATCP 93.575 within 7 business days		tank							
4) Inventory verification results indicate a required method of leak detection has failed.(must follow procedures of ATCP 93.575 within seven business days.)	ATCP 93.570(4)	tank	NO						
a. Follow procedures of ATCP 93.575 within 7 business days		tank							

L. Tank system integrity assessment

1) Tank system integrity assessment. System shall have a precision tightness test performed to determine if a leak exists within seven business days.	ATCP 93.575(2)(a)	tank	D						
a. Owner or operator to have tank precision tested in accordance with ATCP 93.515(4)		tank							
b. Owner or operator to have line precision tested in accordance with ATCP 93.515(4)		tank							
2) Tank system site assessment. The site shall be assessed for the presence of a release in accordance with sps 310.580 within seven business days.	ATCP 93.575(2)(b)	tank	D						
a. Owner or operator to have site assessed for the presence of a release in accordance with ATCP 93.580		tank							

M. Responding to a leak, spill, overflow, or release

1) Immediately upon discovery of any evidence of a leak from a tank system or dispensing system, the owner or operator, or contractor shall take all means necessary to stop the leak and prevent migration of any free product to the environment.	ATCP 93.585(1)(a)	tank	NO						
a. Immediate action must be taken to stop the leak and prevent any free product from entering the environment		tank							
2) Immediately upon confirming any suspected release or discovering any obvious release, the owner or operator shall investigate the extent of contamination, and undertake corrective mitigation actions in accordance to ss. 292.11(3), stats.	ATCP 93.585(1)(b)	tank	D						

a. The owner or operator must take immediate action to investigate the extent of contamination from a suspected or obvious release and undertake corrective mitigation actions in accordance with ss.292.11(3) stats	tank								
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N. Tank red-tag shutdown

1) Red-tag immediate shutdown. Imminent health & safety.	ATCP 93.115(3)(a)	tank	NO						
a. Shut down immediate - danger to health and life		tank							
b. Shut down immediate - visual evidence of leakage		tank							
c. Shut down immediate - inadequate venting		tank							
d. Shut down immediate - overfill prevention not functioning properly		tank							
e. Shut down immediate- tank system does not have leak detection, corrosion protection, or spill and overfill protection as required		tank							
f. Shut down immediate - verified lapse in financial responsibility		tank							
g. Shut down immediate - tank systems with a breach that has the potential for liquid or vapor release, discovered as a result of an actual leak or leak detection test+		tank							
2) Red-tag shutdown after investigation or inspection.		tank							
a. Tank system shows clear evidence of release through inventory records, precision tightness test, or leak detection results.	ATCP.115(3)(b))	tank	NO						
b. Tank system shows evidence of attempts to mislead ahj regarding code compliance. tampering		tank							
3) Red-tag ust. Long term violation.		tank							
a. Shut down after all items 1-6 have been met	ATCP 93.115(3)(c)	tank	NO						
b. Initial order written compliance period of at least 10 days with a specific date is not met		tank							
c. Re-inspection made after specific compliance date shows compliance has not been achieved		tank							
d. Second specific compliance date allowing at least 5 days has been set		tank							

e. Re-inspection after second compliance date shows compliance has not been met		tank							
f. The owner has not filed a written appeal with the department within 15 calendar days of the initial order		tank							
g. Enforcement action shall proceed if the owner has filed a written appeal until such time a decision is issued in relation to the appeal, overturning or modifying the order		tank							
4) Repaired tanks and piping are not tightness tested within 30 days of repair.		tank							
a. Precision tightness test repaired tanks and piping in accordance with ATCP 93.575 to ATCP 93.585 prior to being placed back into service	ATCP 93.500(7)(e)	tank	P						
b. Red tag system until testing is completed		tank							

O. Tanks general unlisted violations

1) API, PEI, NFPA407, & misc unlisted tank violations	ATCP 93.200(1)	tank	NO						
a. Report API, PEI, NFPA407, & misc unlisted tank violation		tank							
2) NFPA 30 unlisted-tank violation	NFPA 30.1.1.1	tank	NO						
a. Report unlisted NFPA 30 tank violation		tank							
3) NFPA 30a unlisted-tank violation	NFPA 30A.1.1.1	tank	NO						
a. Report unlisted NFPA 30a tank violation		tank							
4) ATCP 93 unlisted-tank violation	ATCP 93.020	tank	NO						
a. Report unlisted ATCP 93 tank violation		tank							
5) ATCP 94 unlisted tank violation	ATCP 94.100	tank	NO						
a. Report unlisted ATCP 94 tank violation		tank							

P. Leaks- a leak source and severity must be checked for each leak

1) Submersible pump and associated piping leak (with containment)	NFPA 30.27.3.2	tank	NO						
a. Repair/replace leak source		tank							

2) Tank and dispenser product delivery shut down/red tagged until leak source is repaired		tank							
a. Confirm containment is liquid tight		tank							
b. Information:) inspector discretion depending on severity: 1. red tag		tank							
2. Containment contains product to piping entry area can order containment hydrostatically tested.		tank							
3. Follow procedures in ATCP 93.570; 93.575; 93.580; 93.585 if a leak is suspected		tank							
3) Submersible pump and associated piping leak (without containment)	NFPA 30.27.3.2	tank	NO						
a. Repair/replace leak source		tank							
b. Tank & dispenser product delivery shutdown/red-tagged until leak source is repaired		tank							
c. Information:) inspector discretion depending on severity: 1. red tag		tank							
2. If earthen containment saturated; leak detection and / or inventory records fail follow procedures in ATCP 93.570; 93.575; 93.580; 93.585 if a suspected release		tank							
4) Leak severity must include leak source		tank							
a. Weep or slow leak not dripping or running		tank							
b. Drip or droplets can be seen		tank							
c. Flow or spray-solid stream or spray can be seen		tank							