

Inspection Checklists

Aboveground Storage Tank Inspection Checklist

Facility: _____ Facility ID: _____						
	Code	Type	Trainer	Date	Supervisor	Date

A. Tank Registration

1) All tanks on site are registered	ATCP 93.140	tank				
a. Registered to current owner.						
b. Tank type and size is correct.						

B. Records

1) Maintenance, repair, testing & inspection records are to be on site or available electronically during inspection.	ATCP 93.400(11)	facility				
2) Monthly and annual owner inspection records; 20 year inspection record where applicable	SP 001	tank				
3) AST's with underground piping need to maintain the following;						
a. Annual corrosion protection tests or rectifier logs (impressed systems).	ATCP 93.400(2)	facility				
b. Monthly leak detection	ATCP 93.400(4)	facility				

C. Visual Inspection

1) Tank						
a. Tank is listed, labelled or approved for aboveground use.	ATCP 93.250	tank				
b. Tank is set on a flat, smooth, solid surface.	ATCP 93.400(1)(d)	tank				
c. Tank is painted or has acceptable corrosion protection.	ATCP 93.400(2)	tank				
d. Tank is double wall with interstitial monitoring or is in a compliant dike.	ATCP 93.420	tank				
e. Tank has NFPA 704 signage visible to oncoming emergency personnel and Class I liquid tanks are labeled "Flammable - Keep Fire Away"	ATCP 93.400(7)	tank				
f. Multiple tanks must have at least 3 feet of space between tanks.	PEI 200.2.4	tank				

g. Vent pipe is minimum 2 inch diameter and ends no less than 12 feet above adjacent ground level. (Flammable Liquids)	PEI 200.8.5.1	tank				
h. Each compartment and interstice has an independent emergency vent that opens under pressure.	PEI 200.8.5.2	tank				
2) Dike/Secondary Containment						
a. Tank yards and dike areas shall be kept free from debris and kept clean and orderly.	ATCP 93.340(3)	tank				
b. Containment is maintained to original approved volume.	ATCP 93.420(2)(b)	tank				
c. Containment is liquid tight.	ATCP 93.420(2)(d)	tank				
d. Tank separation from the dike toe and floor per approved plans.	ATCP 93.420(2)(l)	tank				
e. Containment has a manually controlled means of drainage.	ATCP 93.420(2)(m)	tank				
f. Drain shall be manually controlled to prevent liquids from entering natural water course, public sewers & drains.	NFPA 20.22.11.2.7	tank				
g. Drain shall be accessible under fire conditions from outside the dike.	NFPA 30.22.11.2.7.1 or 30.22.11.3.5.1	tank				
h. Storage of other materials shall not be permitted in the dike area.	NFPA 30.22.11.2.8 or 30.22.11.3.6	tank				
3) Collision Protection						
a. Collision Protection	ATCP 93.430(1), ATCP 93.615(5)(g) & (h)	tank				
b. 2 feet clearance between collision protection and tank or system component.	ATCP 93.430(2)	tank				

D. Spill and Overfill Prevention

1) Visual and audible warning signals are recognizable to the delivery person.	ATCP 93.410(3)	tank				
2) Spill and overfill equipment is working as designed.	ATCP 93.410(4)	tank				
3) Separate fill and vent openings	ATCP 93.410(5)	tank				
4) Point of delivery fueling; Fill connection has a catch basin or is within a containment.	ATCP 93.410(6)	tank				
5) Fill point remote of tank and dike; 90% Visual-Audible signal & 95% shut-off equipment required.	ATCP 93.410(8) & (9)	tank				
6) Clearly identified and easily accessible Emergency Shut-Off switch between 20 and 100 feet from fuel dispenser(s) or per plan approval.	PEI 200.13.4	tank				
7) Means shall be provided to prevent the release of liquid by siphon flow.	NFPA 30A 4.3.6.4	tank				
8) Each hose dispensing Class I & II liquids has an emergency breakaway.	NFPA 30A 6.5.2	tank				

E. Piping

1) Piping is protected from impact, vibration and expansion/contraction.	ATCP 93.615(5)(h)	tank				
2) Piping has acceptable corrosion protection.	ATCP 93.615(5)(h)	tank				
3) Underground piping meets leak detection requirements. ATCP 93.510(4)	ATCP 93.615(5)(i)	tank				
4) Tank Vehicle Unloading; A check valve shall be installed in piping at point where connection/ disconnection is made	ATCP 93.615(5)(j)	tank				
5) Tank is bottom loading or fill pipe terminates within 6 inches of tank bottom.	ATCP 93.615(5)(k)2	tank				
6) All fill pipes shall be locked, labeled and color coded as specified in ATCP 93.230(12)	ATCP 93.615(5)(k)3	tank				

F. Fuel Dispensing

1) Nozzle is listed, automatic closing & of proper diameter for class of fuel dispensed.	ATCP 93.605(1)(d)	facility				
2) Hose lengths of more than 18 feet must be reeled, racked or otherwise protected or approved.	ATCP 93.605(1)(e)2 & 3	facility				
3) Hose has no signs of wear or stress.	ATCP 93.605(1)(e)5	facility				
4) Shear valve is installed to manufacturer's specifications. (Class I fuel)	ATCP 93.605(1)(f)	facility				
5) Dispenser labeling is in accordance with ATCP 94	ATCP 93.605(4)	facility				
6) Tank area shall be secured by a 6 foot high noncombustible building or fence with a gate except were exempt under par. (b) or (c)	ATCP 93.615(7)(a)	facility				
7) 80 B:C fire extinguisher is maintained, inspected & installed no more than 100 feet from dispenser(s).	NFPA 30A 9.2.5.2	facility				
8) Gasoline fueling warning sign (No Smoking, Stop Engine, Fill container on ground & No underage use).	NFPA 30A 9.2.5.4	facility				
9) Operating and Emergency Instructions are conspicuously posted in dispensing area.	NFPA 30A 9.5.2-3	facility				
10) A means of contacting 911 is provided and clearly identified.	NFPA 30A 9.5.5	facility				

G. Marina Fueling

1) A latch open nozzle may not be used above or within 100 feet of navigable water.	ATCP 93.640(1)(c) or NFPA 30A.11.4.2	facility				
2) Hose lengths of more than 18 feet must be reeled, racked or otherwise protected.	ATCP 93.640(1)(d) or NFPA 30A.11.4.1	facility				
3) Piping meets "Material and Listing Requirements" and have flexibility allowing movement with the pier.	ATCP 93.640(2)(b) or NFPA 30A.11.3.1- 4	facility				

4) "Flex connectors"; At least 1 flex connector listed for aboveground use is placed between rigid pipe on shore and rigid pipe that serves the dispenser.	ATCP 93.640(2)(b)3	facility				
5) An accessible shutoff valve with expansion relief device is located on one end of the flex connector.	ATCP 93.640(2)(b)3.b or NFPA 30A.11.3.5	facility				
6) Fueling procedure sign is correct and in place.	NFPA 30A.11.10.8	facility				

H. Bulk Plant - Loading Rack

1) Loading/Unloading area of tanks larger than 5000 gallons capacity shall have a catch basin or treatment facility large enough to contain the capacity of the largest tank car or tank vehicle loaded/unloaded.	ATCP 93.340(5) or 310.420.5	facility				
2) All tanks and piping are identified as to product inside according to American Petroleum Institute 1637	ATCP 93.340(2)	facility				
3) Dike floor and walls shall be liquid tight.	ATCP 93.420(2)	facility				
4) Dike system shall have means for removal of rain water.	ATCP 93.420(2)(m)	facility				
5) Loading rack has electrical-bonding cord.	PEI 800.14.3	facility				
6) Loading arms are equipped with a deadman control device & extend near bottom of tank.	PEI 800.14.4 & NFPA 30.28.11.1.5- 6	facility				
7) Smoking shall be permitted only in designated and identified areas.	NFPA 30.6.5.2	facility				

I. Leak, Spill, Overfill or Release

1) Leaks shall be immediately stopped and migration of product stop.	PEI 800.14.4 & NFPA 30.28.11.1.5- 6					
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J. Fire Equipment

1) All fire protection equipment shall be properly maintained and inspected.	NFPA 30.6.9.1					
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K. Unlisted Violation(s) or Comments

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