

Aboveground Tank Installation Checklist

Facility: _____ Facility ID: _____	Code	Trainer	Date	Supervisor	Date
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A. Plan approval

1) Plans have been approved. State plan number/LPO plan number is:				
2) Tank Capacity: _____ gallons.				
3) POS dispensing (include form TR-WM-130) <input type="checkbox"/> Vehicle <input type="checkbox"/> Marine craft <input type="checkbox"/> Aircraft				

B. Tank construction

1) Tank exhibits recognized Listing, API or ASME marking label. _____ ATCP 93.400				
2) Tank has been designed or certified for use by a Qualified Engineer				
3) Tank has vents installed and configured for: <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III product				
4) Emergency relief vent is provided where required. Type: _____				
5) All normal and emergency vents terminate outside where required				
6) Overfill protection provided? Make/Model: _____ ATCP 93.410				
7) Tank gauge is provided				
8) <input type="checkbox"/> Tank mounted pump <input type="checkbox"/> Remote pump/dispenser independent of tank				

C. Tank handling and pre-testing

1) Tank is used and has been tested for leaks. <input type="checkbox"/> Pressure <input type="checkbox"/> Vacuum <input type="checkbox"/> Hydrostatic Length of test: _____ min..				
2) Tank was tested after set in place for leakage per the manufacturer's recommendations				

D. Tank site

1) Tank located per approved plans (walls, buildings, power lines, streets, well, etc.).				
2) Tank is spaced a minimum of 3 feet from any other tank. _____ NFPA 30 Table 22.4.2.1				
3) Tank in diked containment is spaced a minimum of 2 feet from the toe of the dike				

wall				
4) Tank(s) meet ATCP 93.615 setbacks				
5) Tank markings per ATCP 93.400(7)				

E. Project site

1) Collision protection provided.				
2) Storage tank enclosure compliant				
3) Warning signs posted for dispensing area.				
4) 80 B:C rated fire extinguisher provided if motor vehicle fueling & within 100 ft travel distance				
5) NFPA 704 emergency response hazard rating signage provided on tan				

F. Piping

1) Pipe construction material: <input type="checkbox"/> Fiberglass <input type="checkbox"/> Steel <input type="checkbox"/> Flexible <input type="checkbox"/> Other (type): _____ <input type="checkbox"/> Inspector Verified				
2) Pipe installation is: <input type="checkbox"/> single wall (aboveground only) <input type="checkbox"/> double wall				
3) Piping system is: <input type="checkbox"/> Aboveground only <input type="checkbox"/> Underground only <input type="checkbox"/> Combination of aboveground and underground				
4) Piping system Type: <input type="checkbox"/> Pressurized piping with mechanical anti-siphon Solenoid valve <input type="checkbox"/> Suction piping with a mechanical anti-siphon Solenoid valve <input type="checkbox"/> AST Gravity/Head pressure				
5) Piping Catastrophic leak detection method: Pressurized piping with: <input type="checkbox"/> Pump auto shutoff - ELLD <input type="checkbox"/> Flow restrictor – MLLD				
a. Manufacturer/Model				
6) Piping leak detection method: <input type="checkbox"/> Aboveground visual Electronic interstitial monitoring – sump sensor or leak sensing cable				
a. Manufacturer/Sensor Model:				

G. Aboveground Pipe

1) Coated to inhibit corrosion				
2) Supported and protected against physical damage and stress.				
3) Piping was isolated from the tank and dispenser and air tested at 150% of operating pressures of the system (but not less than 50 p.s.i.) for 1 hour.				

H. Underground Pipe

1) Piping is sloped to a sump (min. 1/8 inch per foot).				
2) Piping was isolated from the tank and dispenser and air tested at 150% of operating pressure of the system (but not less than 50 psig) for 1 hour prior to backfilling				
3) After backfilling, piping was isolated from the tank and dispenser and precision tested at 110% of operating pressure but not less than 50 psi for 1 hour				
4) Test stations have been installed for monitoring cathodic protection on piping.				
5) Approved flexible connectors are installed below dispenser and at aboveground/belowground transition				

I. Secondary containment

1) Tank secondary containment: <input type="checkbox"/> Double Wall <input type="checkbox"/> Diked <input type="checkbox"/> Remote impounding				
2) Dike material: <input type="checkbox"/> Concrete <input type="checkbox"/> Steel <input type="checkbox"/> Engineered clay <input type="checkbox"/> Engineered clay with liner <input type="checkbox"/> Earthen with Liner <input type="checkbox"/> Other				
3) Dike capacity: Weather protected meets 100% <input type="checkbox"/> Yes <input type="checkbox"/> No Unprotected meets 125% <input type="checkbox"/> Yes <input type="checkbox"/> No				
4) Double wall or diked tank has interstitial monitor (visual or electronic) <input type="checkbox"/> Yes <input type="checkbox"/> No				
5) Motor fuel dispenser has liquid tight sump with a sensor <input type="checkbox"/> Yes <input type="checkbox"/> Not required				
6) Pipe run is a combination of aboveground and underground pipe: <input type="checkbox"/> Yes <input type="checkbox"/> No Transition sump installed: <input type="checkbox"/> Yes <input type="checkbox"/> No				

J. Liquid handling, transfer and use

1) Check valve installed in piping at connection/disconnection for tank vehicle				
2) Tank is provided with minimum 5 gal. spill protection				
3) Dispensing device is listed				
4) Anti-siphon protection with pressure relief				
5) Shear valve installed in pressure system				
6) Pressure Regulator valve with shear section installed in suction system				
7) Aircraft fueling system provides bonding mechanism between aircraft and fueling equipment				
8) Electric equipment and wiring is installed in accordance with SPS 316 (NFPA 70).				

9) Emergency shutoff installed for bulk transfers and motor vehicle fueling is clearly identified and accessible per ATCP 93.370 or NFPA 30A 6.7.				
10) Emergency electrical shutoff installed for bulk transfers (ATCP 93.370), identified and accessible				
11) Where required, listed emergency breakaway, hose and dispensing devices are provided				
12) Dispensing nozzle at marine service stations shall be auto-closing without hold open device				
13) Hose length: _____ ft.				