



Celina Fire Department
Fire Prevention Division
302 W. Walnut Street #200
Celina, Texas 75009
Phone 972-382-2653

Installation Checklist for Underground Storage Tanks

Business Name: _____
Address: _____

INSTALLING CONTRACTOR

Business Name: _____
Address: _____

Phone Number: _____

Job Forman: _____

TANKS

1.	Capacity _____	Product _____
UL#	_____	
2.	Capacity _____	Product _____
UL#	_____	
3.	Capacity _____	Product _____
UL#	_____	
4.	Capacity _____	Product _____
UL#	_____	
5.	Capacity _____	Product _____
UL#	_____	
6.	Capacity _____	Product _____
UL#	_____	

- TCEQ provided with 30-day notice.
- Installation plans and specifications are approved by Celina Fire Department. A minimum distance of 1 foot, shell to shell, shall be maintained between tanks.
- Air test, 3-5 psi for 30 minutes, witnessed prior to tank(s) being placed in pit.
- Witness soap-bubble test of entire tank surface. [mfg.]
- Tank diameter(s) checked and recorded.

- Tanks shall be properly anchored.
- Exception: acceptable hydrology study**
- Clean backfill available; pit is free of rocks, clumps, trash and debris. Pea-gravel must be used with fiberglass tanks.
- Tank serial number(s) and U.L. listing number(s) are recorded for each tank.
- Required** sampling wells of 4-inch minimum diameter located at lowest and opposite corners of pit. [EPA] Exception: double-wall tanks with interstitial monitor.
- Backfill placed (all openings and fittings remain exposed). Fill material should be properly tamped against belly of the tank to fill all voids.
- Air test all tanks, including waste oil tanks, 3-5 psi for 30 minutes; soap-test all fittings. The secondary containment shell shall also be air tested.
- All piping and valves are U.L. listed or of approved type.
- Approved double swing joints or approved flexible connectors are installed:
 - where piping leaves tank(s)
 - where piping leaves dispensing island
 - other locations subject to thermal expansion or differential movements
- Piping is supported and separated to prevent damage and vibration.
- Pressures test all lines; including waste oil, tank lines and all vent piping, for 30-minutes.
 - hydrostatic @ 150% maximum anticipated pressure
 - Pneumatic @ 110% maximum anticipated pressure but not less than 5 psig at the highest point of the system. Soap-test all joints and fittings.

TANKS SHALL NOT BE UNDER PRESSURE FROM LINES.

Air tests are not permitted if tank(s) or lines have contained any flammable product!

- All metal pipes are properly wrapped (with 50% overlap), properly coated, or cathotically protected to prevent galvanic action or corrosion.
- Tank(s) shall have a minimum cover of:
 - 2-feet of earth, or
 - 1-foot of earth plus 4-inches reinforced concrete, or when subject to vehicular traffic:
 - 3-feet of earth, or
 - 1.5 feet of earth plus 6 inches reinforced concrete, or
 - 8-inches asphaltic concrete when asphaltic concrete is used, it shall extend at least 1-foot beyond outline of the tanks.
- Location of emergency pump shut-off(s) shall be within 100 feet, but not closer than 20 feet, from any dispenser. This switch shall be accessible to the public and labeled **EMERGENCY PUMP SHUTOFF**.
- Dispenser(s) shall be mounted upon concrete island, minimum of 6 inches in height.
- Dispenser(s) shall be located at least 10 feet from property line. The nozzle shall be at least 5 feet from any building opening (with hose line extended).
- All dispenser(s) shall be visible from attendant's position.
- Provisions made to prevent fuel spills from traveling into building.
- A **monthly** monitoring method to detect tank leaks composed of one or more of the following:
 - (a) automatic tank gauging
 - (b) monitoring for vapors in the soil
 - (c) interstitial monitoring
 - (d) monitoring for liquids on ground water
- If **pressurized** piping is installed:
 - the piping shall have devices to automatically shut off or have an alarm that indicated leak, and
 - conduct an annual tightness test of the piping or use one of the monthly methods noted for tank leaks
 - (a) automatic tank gauging
 - (b) vapor monitoring

- (c) ground water monitoring
 - (d) interstitial monitoring
- If suction piping is installed:
 - monthly monitoring (as already mentioned above) or tightness testing of piping every 3 years
 - suction piping not requiring leak detection shall be below-grade piping sloped so that piping content will drain back into the storage tank if suction is released, and only one check valve is included in each suction line located directly below the suction pump. [EPA]
- Secondary Containment is required for tank(s) and all associated product piping. (TCEQ rules)

PRIOR TO BUILDING FINAL, THE FOLLOWING IS REQUIRED:

- All Required signage is present:
- No Smoking/Stop Engine/Filling of Unapproved Containers conspicuously posted.
- Building Address.
- Electrical outlets in service bays are minimum 18 inches above finished floor.
- Heaters in service bays are listed for Class 1, Group D, Division I if Class 1 liquids are dispensed and stored within service area; or Division 2 if Class 1 liquids are only stored.
- All dispensers are properly anchored independent of piping a conduit.
- Vent piping terminates outside building at least 12 feet above grade and at least 5 feet from any building opening or property line. UL listed flame arrestors installed at top of each vent line.
- Emergency shut-off valves (impact valves) incorporating a fusible link are properly installed with shear section of valve mounted flush with surface of concrete island for each dispenser (plus or minus 1/8 inch).
- Fire extinguishers, minimum rating of 2A-20:BC, readily visible and accessible and within 75 feet of every dispenser.
- Management advised of requirement to maintain records:
 - i. inventory log reconciled daily
 - ii. record of annual leak-detecting device tests
 - iii. report all spills/leaks immediately to CFD
- Emergency phone numbers are acquired.

A site plan is required to be submitted to the Celina Fire Department for approval before any tanks are installed and tested. Include a set of cut sheets.

FEES - \$150 per tank for a permit, plan review, and inspection. Re-inspection fees (red tag) may be \$250.

Any omission by the Fire Inspector shall not be misinterpreted as permission to install tanks incorrectly.

Inspector

Date