



City of White Bear Lake
Building Department
4701 Highway 61 N.
White Bear Lake, Minnesota 55110
651-429-8518 | www.whitebearlake.org
buildingdepartment@whitebearlake.org



FUEL STORAGE TANK – UNDERGROUND INSTALLATION

This handout is a summary of the permit & inspection process. The installation of underground fuel storage tanks (UST), piping, cover of tank and piping, corrosion protection and associated systems shall comply with the Minnesota State Fire Code (MSFC) Chapters 22 & 34, NFPA Standards, and Environmental Protection Agency Rules.

Permit Submission Requirements:

- A completed permit application signed by a state licensed sprinkler contractor
- Provide manufactures specification sheet for tank(s) and all appliances.
- Provide documentation of both individual and company MNPCA certification.
- Provide 2 sets of plans that include the following:
 - Method of storage
 - Class of liquid and quantities to be stored
 - Location of tank(s), piping and utilities
 - Distances from buildings, property lines and public ways
 - Location and layout of dispensing, pumping, loading and un-loading equipment
 - Emergency controls.
 - Portable Fire Extinguisher
 - Description of impact protection
 - Provisions for spill and secondary containment

Fire Suppression Permit Fees: See the White Bear Lake Fee Schedule at www.whitebearlake.org

Licensing Requirements:

- Contractor must be licensed in the State of Minnesota

Inspection Requirements:

- A 24-hour notice to the Fire Department is required for inspections and witnessing tests. Call 651-762-4842 to set up all inspections.
- Pre-excavation inspection of the site
- Pressure test of tank
- Tank hold-down inspection
- Piping pressure test – NFPA 30.5.6
- A visual soap test of all joints, seams and connections
- Provide documentation of all tank tightness tests – NFPA 30:4.4-4.4.3

Information and Guidelines:

- Tanks, piping appurtenances and all associate equipment shall be listed and approved.
- Tanks shall not be placed within 3 feet of then nearest wall of a basement, pit, and cellar or lot line.

- UST's shall be located with respect to existing foundations and supports such as the loads carried by them cannot be transmitted to the tank.
- A minimum of 1 foot, shell to shell, shall be maintained between underground tanks.
- UST's shall be set on firm foundations and surrounded with at least 6 inches of non-corrosive material such as clean sand.
- Where a tank is subject to uplift due to buoyancy because of a high water table, uplift protection shall be provided in accordance with NFPA Standard 30:4.3.3.5-4.2.2.5.2.
- UST's shall be provided with corrosion protection in accordance with NFPA 30:4.2.6-4.2.6.2.

Additional Requirements for Motor Vehicle Dispensing:

- Dispensing devices shall be located:
 - 10 feet or more from property lines.
 - 20 feet from fixed sources of ignition.
 - 10 feet or more from buildings having combustible exterior wall surfaces or buildings having non-combustible exterior wall surfaces that are not part of a one-hour fire-resistance rated assembly or buildings having combustible overhangs. (Exception: Canopies constructed in accordance with the International Building Code).
- Unattended Self-Service station are allowed when, as a condition of approval, the owner operator:
 - Is accountable for daily site visits and regular equipment inspection and maintenance.
 - Post dispenser-operating instructions.
 - Posts emergency procedure instructions.
 - Provide a telephone not requiring a coin to operate to notify the fire department in case of an emergency.
 - Dispensing equipment is programmed to limit uninterrupted fuel delivery to 25 gallons or the amount of fuel being dispensed shall be limited in quantity by a preprogrammed card as approved.
- Sign prohibiting smoking, dispensing unto un-approved containers, and requiring vehicle engines to be stopped during fueling shall be conspicuously posted. When open to the public, a sign stating the minimum age to dispense fuel is 16 years old.
- An emergency shut off device is required 20-100 feet from dispensers
- Pumps shall be substantially anchored and protected from physical damage by mounting on a concrete island 6 inches or more in height.

This document is for informational purposes only and not intended to address every situation for the permitting and plan review process.

2022