



INSPECTION CHECKLIST

Underground Flammable Combustible Liquid Tank Installation

The following requirements apply to newly-installed underground tanks used for dispensing flammable or combustible liquids. Since these are often found at service stations, the requirements for dispensing are also included.

Y = Meets Requirements; N= Does Not Meet Requirements

Y N

UNDERGROUND TANKS:

- ☐ ☐ Tanks designed, fabricated, constructed and installed per NFPA 30 (IFC 5704.2.7 & IFC 5704.2.11)
- ☐ ☐ Corrosion protection required (IFC 5703.6.5)
- ☐ ☐ Flexible joints required (IFC 5703.6.9):
 - ☐ ☐ Piping connects to UG tanks
 - ☐ ☐ Piping terminates at pump islands and vent risers
 - ☐ ☐ At points where differential movement in the piping can occur
- ☐ ☐ Normal venting provided (IFC 5704.2.7.3)
- ☐ ☐ Vent pipe terminates at least 12 ft. above ground (IFC 5704.2.7.3.3)
- ☐ ☐ Vent pipe terminates at least 5 ft. from building openings (IFC 5704.2.7.3.3)
- ☐ ☐ Pressure/Vacuum vent required for flammable liquid tanks (IFC 5704.2.7.3.6)
- ☐ ☐ Fill pipe and discharge lines shall enter only through top of tank (IFC 5703.2.7.5.5.2)
- ☐ ☐ Fill lines to be sloped toward tank (IFC 5704.2.7.5.5.2)
- ☐ ☐ Tight fill device required for tanks greater than 1,000 gallons (IFC 5703.2.7.5.5.2)
- ☐ ☐ Minimum distance from tank to basement, pit, building, or property line – 3 feet (IFC 5704.2.11.2 (2))
- ☐ ☐ Minimum separation distances between tanks – 1 foot (IFC 5704.2.11.2 (3))
- ☐ ☐ Tanks to be surrounded with at least 6 inches of non-corrosive, inert material (such as clean sand) – (IFC 5704.2.11.3)
- ☐ ☐ Spill container & overfill protection required (IFC 5704.2.11.4) & Depth and Cover (IFC 5704.2.11.3)
- ☐ ☐ Leak detection required (IFC 5704.2.11.5.2)
- ☐ ☐ Upon installation, tanks and piping to be tested per NFPA 30 (IFC 5704.2.12.1)

Y N

DISPENSING DEVICES:

- ☐ ☐ Located at least 10 feet from property lines (IFC 2303.1)
- ☐ ☐ Located at least 10 feet from combustible buildings or overhangs (IFC 2303.1)
- ☐ ☐ Located so all portions of vehicles be re-fueled shall be on premises (IFC 2303.1)
- ☐ ☐ Located so the nozzle fully extended cannot reach within 5 feet of building openings (IFC 2303.1)
- ☐ ☐ Located 20 feet or more from fixed sources of ignition (IFC 2303.1)
- ☐ ☐ Emergency disconnect switch to be readily accessible (IFC 2303.2)
 - ☐ ☐ Clearly identified: **Emergency Fuel Shut-off** (IFC 2303.2)
 - ☐ ☐ Located at least 20 feet from dispensers (IFC 2303.2)
 - ☐ ☐ Located within 100 feet of dispensers (IFC 2303.2)
- ☐ ☐ Supervision of dispensing:
 - ☐ ☐ Attended Self-Service (IFC 2304.2)
 - ☐ ☐ Unattended Self-Service (IFC 2304.3)
- ☐ ☐ Smoking & open flames prohibited (IFC 2305.4)
- ☐ ☐ Vehicles to be shut-Off during fueling (IFC 2305.4)
- ☐ ☐ Fire extinguisher (2-A:20-B:C minimum-rated) to be within 75 feet of pumps, dispensers, and fill openings (IFC 2305.5)
- ☐ ☐ Dispensers to be mounted on concrete Island (min. 6" in height) or have vehicle impact protection (IFC 2306.7.3)
- ☐ ☐ Fire/Impact valve required at base of dispenser (IFC 2306.7.4)
- ☐ ☐ Dispenser hose – maximum length of 18 feet (IFC 2306.7.5)
- ☐ ☐ Dispenser hose to have break-away device (IFC 2306.7.5.1)
- ☐ ☐ Nozzles to be automatic closing (can have latch open device) (IFC 2306.7.6)

This checklist is provided by the Idaho State Fire Marshal's Office and is intended as a guide to assist fire inspection personnel in identifying general fire and life safety hazards, other possible code requirements may apply. Please refer to other checklists for information on certain occupancies/topics.

IFC = International Fire Code