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

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)

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