**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 (MSFC 5704.2.7) & MSFC 5704.2.11
- □ Corrosion protection required (MSFC 5703.6.5)
- □ Flexible joints required (MSFC 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 (MSFC 5704.2.7.3)
- □ Vent pipe terminates at least 12 ft. above finished ground level (MSFC 5704.2.7.3.3)
- □ Vent pipe terminates at least 5 ft. from building openings or lot lines (MSFC 5704.2.7.3.3)
- □ Vent-line flame arresters and pressure-vacuum vent required for flammable liquid tanks (MSFC 5704.2.7.3.2)
- □ Fill pipe and discharge lines shall enter only through top of tank (MSFC 5703.2.7.5.5.2)
- □ Fill lines to be sloped toward tank (MSFC 5704.2.7.5.5.2)
- □ Tight fill device required for tanks greater than 1,000 gallons (MSFC 5703.2.7.5.5.2)
- □ Minimum distance from tank to basement, pit, building, or property line – 3 feet (MSFC 5704.2.11.1 (2))
- □ Minimum separation distances between tanks – 1 foot (MSFC 5704.2.11.1 (3))
- □ Tanks to be surrounded with at least 6 inches of non-corrosive, inert material (such as clean sand) – (MSFC 5704.2.11.2)
- □ Spill container & overfill protection required (MSFC 5704.2.11.3) & Depth and Cover (MSFC 5704.2.11.2)
- □ Leak detection required (MSFC 5704.2.11.4.2)
- □ Upon installation, tanks and piping to be tested per NFPA 30 (MSFC 5704.2.12.1)

### DISPENSING DEVICES:

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