UNDERGROUND LPG TANK INSTALLATION WORKSHEET
TUALATIN VALLEY FIRE & RESCUE

South Division
7401 SW Washo Ct., Suite 101
Tualatin, OR 97062
Ph. (503) 612-7000
Fax (503) 612-7003

North Division
14480 SW Jenkins Rd.
Beaverton, OR 97005
Ph. (503) 356-4700
Fax (503) 644-2214

Complete one worksheet (front and back) that corresponds to the method of cathodic protection system installed for each underground tank. Attach this worksheet to the tank installation notice sent to Fire Marshal's office.

Customer:_____ **Customer Phone:**_____

Tank Installation Address:_____

City:_____ **County:**_____ **State:**_____ **Zip:**_____

Water Capacity:_____ **Container Serial Number:**_____ **Make of Tank:**_____

ASME Tank Information: NFPA 58: 2008 edition

☐ New tank: ☐ Used tank: Tank manufacturer name: _____Manufacturer I.D. plate attached: ☐ YES ☐ NO

☐ Approved underground tank installed with no vehicle traffic shall be at least 6 inches below grade. NFPA 58:6.6.6.1(A).

☐ Approved non-interchangeable underground installation shall have a minimum depth of 18 inches or provide adequate vehicle protection for all appurtenances. NFPA 58:6.6.6.1(B).

☐ Approved interchangeable aboveground/underground installation; maximum depth 12 inches below grade. NFPA 58:6.6.6.1(D).

Location of Tank: NFPA 58: 2008 edition

☐ YES ☐ NO Tank installation is outside and not underneath existing or planned buildings. NFPA 58:6.2.1 & 6.3.4.2.

☐ YES ☐ NO Tanks of 125 gallon water capacity and under at least 10 feet from all buildings and property lines. NFPA 58:Table 6.3.1.

☐ YES ☐ NO Capacity from 125-2000 gallons shall be at least 10 feet away from all buildings and property lines. NFPA 58:Table 6.3.1.
OR Capacity from 2001 gallons and larger shall be 50 feet from buildings/property lines. NFPA 58:Table 6.3.1.

☐ YES ☐ NO All sources of ignition at least 10 feet away from tank appurtenances. NFPA 58:Appendix Figure I:1(A).

Tank Installation: NFPA 58: 2008 edition

☐ YES ☐ NO Underground tank installed upon a level surface. NFPA 58:6.6.6.1 (J).
Check support system: ☐ concrete blocks ☐ concrete pad ☐ firm packed earth.

☐ YES ☐ NO Adequate vehicle protection of tank appurtenances. NFPA 58:6.6.6.1 (B).

☐ YES ☐ NO Minimum 14 AWG corrosion resistant tracer wire (entrenched) being visible at riser or building. NFPA 58:6.9.4.6.
NOTE: Local authority having jurisdiction may require a heavier gauge tracer wire.

☐ YES ☐ NO Tanks shall be coated to protect against corrosion. NFPA 58:6.6.6.1 (H).

Pressure Relief Devices: NFPA 58: 2008 edition

☐ YES ☐ NO Adequate protection provided to prevent water or debris from entering the relief valve or discharge piping. NFPA 58:6.7.2.4.

Underground tanks with <u>less than 2000 gallon capacity:</u>

☐ YES ☐ NO If relief device discharges into manhole or protective shroud, the manhole shall be equipped with ventilated louvers or a passive system to provide ventilation. NFPA 58:6.7.2.11.

☐ YES ☐ NO If discharge piping has been installed, the relief valve capacity has been verified as adequately meeting its discharge capacity. NFPA 58:6.7.2.15.

Underground tanks with <u>more than 2000 gallon capacity</u>:

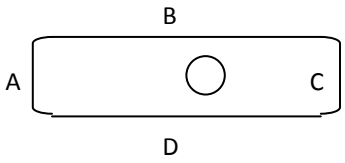
☐ YES ☐ NO Discharge from pressure relief is piped vertically and directly upward to a point at least 7 feet above ground level. NFPA 58:6.7.2.12.

Underground Pipe Installations: NFPA 58: 2008 edition

☐ YES ☐ NO Underground metallic piping shall be protected against corrosion, as warranted by soil conditions according to accepted engineering practices. NFPA 58:6.9.3.14.

Corrosion (Cathodic) Protection: NFPA 58: 2008 edition: 6.16 & A6.16

Areas marked A, B, C & D below on the tank diagram are the recommended locations for testing tank to soil potential around the tank's sides and ends. Readings can be documented on the diagram or the chart provided below.



Existing Soil Type: ☐ Sand ☐ Clay ☐ Loam
Specify Type of Backfill Material:_____
Backfill Material: ☐ Dry ☐ Damp ☐ Wet

Coatings:
Factory Coating: ☐ YES ☐ NO
Additional coating materials applied to surface areas disturbed during installation or shipment of tank ☐ YES ☐ NO
Additional Coatings Applied: ☐ YES ☐ NO
Number of coatings applied:_____
Coating type or brand name:_____

Pipe Material installed:_____
Tracer Wire installed with piping: ☐ YES ☐ NO
Dielectric Union Installed: ☐ YES ☐ NO

Document tank to soil to potential readings A-D in chart below.

Location	Voltage Readings	Comments
A		
B		
C		
D		

Date readings were taken: _____/_____/_____ Taken by: _____

Check one:
☐ YES ☐ NO After installation of anode and prior to backfilling the anode bag(s) was/were pre-soaked with water.
☐ YES ☐ NO Installation site, anode bag, and backfill were naturally wet due to weather or other conditions:
☐ YES ☐ NO Anode bag lead wire accessible inside dome for testing.
Number of Anodes installed: _____ Anode size (weight): _____

Future testing of cathodic protection system: ☐ Bi-Annual ☐ Annual

Diagram: Provide drawing of tank installation: Include location of anode bag(s), piping, and measurements related to distances and depths of all installed components.

Top View	Side View

Company Installing Tank:_____ **Company License No:**_____
Installer hereby certifies that the installation of this tank and appurtenances complies with accepted engineering practices for corrosion protection.

Signature of Installing Fitter:_____ **Fitter License No:**_____