



## UNDERGROUND LPG TANK INSTALLATION WORKSHEET

OFFICE OF STATE FIRE MARSHAL  
OREGON STATE POLICE  
4760 Portland Rd NE, Salem, OR 97305  
(503) 934-8274  
TDD Line: (503) 390-4661  
Fax: (503) 373-1825

Tank No: \_\_\_\_\_

OSFM OFFICE USE ONLY

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

Customer: \_\_\_\_\_ Customer Phone: \_\_\_\_\_

Tank Installed at This 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 manufacture name: \_\_\_\_\_ Manufacture 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 interchangeable aboveground/underground installation maximum depth. 12 inches below grade. NFPA 58: 6.6.6.1(D)
- 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)

### Location of Tank: NFPA 58: 2008 edition

- YES  NO Tank installation is outside and not underneath existing or planned buildings. NFPA 58: 6.4.4.1 & 6.4.4.2
- 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 is at least 10 feet away from all buildings and property lines?  
NFPA Table 58: Table 6.3.1
- YES  NO Capacity from 2001 gallons and larger shall be 50 ft 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: Annex figure I:1(c)

### Tank Installation: NFPA 58: 2008 edition

- YES  NO Underground tank installed upon a level surface. NFPA 58: 6.6.6(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), (c), (d)
- YES  NO Minimum 14 AWG corrosion resistant tracer wire (entrenched) being visible at riser or building.  
NFPA 58: 6.9.4.6, OMSC C404.14.3 & ORSC G2415.14.3  
Note: Local authority having jurisdiction may require a heavier gauge tracer wire.
- YES  NO Tank is coated or protected against corrosion. NFPA 58: 6.6.6.1(H)(I)

### 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 less than 2000 gal. Capacity:

- YES  NO If relief device discharges into manhole or protective shroud, the manhole shall be equipped with ventilated louvers or passive system to provide ventilation. NFPA 58: 6.7.2.11 (*See exceptions for dispensing stations*) NFPA 58: 6.7.2.13
- YES  NO If discharge piping has been installed has the relief valve capacity been verified as adequately meeting its discharge capacity. NFPA 58: 6.7.2.15, 5.7.2.7

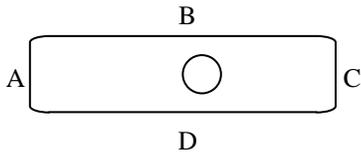
### Underground tanks with more than 2000 gal. Capacity:

- YES  NO Discharge from pressure relief is piped vertically and directly upward to a point at least 7 feet above the ground level. NFPA 58: 6.7.2.12 (*See exceptions for dispensing stations*) NFPA 58: 6.7.2.13

### 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, 6.16

Areas marked A, B, C, & D below on the tank diagram are the recommended locations for testing tank to soil potential around the tank 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  
**Backfill is free of rocks**  
**& abrasives: NFPA 58: 6.6.6.1 (K)**  YES  NO  
**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 pre-soaked with water.  
 YES  NO Installation site, anode bag, and backfill 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(s) bag, piping, and measurements related to distances and depths of all installed components.**

Top View	Side View
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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:** \_\_\_\_\_