



# CITY OF PITTSBURGH

Department of Public Safety ♦ Bureau of Fire

*William Peduto, Mayor*

*Darryl E. Jones, Fire Chief*

January 24, 2014

## UNDERGROUND STORAGE TANK INSTALLATION PROTOCOL

All new installations of UST's containing flammable/combustible liquids, chemical liquids or solids, or any liquid or solid material classified as hazardous shall have secondary containment. Any and all piping underground shall have secondary containment (i.e., supply/return, vent, stage 2 vapor recovery, etc.). Secondary containment for UST's may consist of a double-wall tank or a below grade concrete vault. An underground storage tank shall be utilized for the storage of any Class I Flammable Liquids.

All tanks shall be tested from 3 PSI to a maximum pressure of 5 PSI gauge and soap tested. The pressure gauge utilized to measure the test pressure shall have a maximum reading of 15 PSI. The tank must hold air with no pressure loss for one hour. If there is a vacuum gauge, the vacuum gauge must remain in place until notified by the Fire Prevention Division to remove it.

All underground lines, both primary and secondary, shall be air and soap tested. The lines must hold air with no pressure loss for two hours. Primary lines tested to 50 PSI or 1 1/2 times normal operating pressure whichever is greater. The pressure gauge utilized to measure the test pressure shall have a maximum reading of 3 (three) times the test pressure. Secondary lines tested to manufactures specifications.

All tests shall be witnessed by a member of the Pittsburgh Bureau of Fire, Fire Prevention Division. There will be a fee for each test, passed or failed.

Requests for an inspector to witness a test shall be at least 48 hours in advanced.

The design must have engineers certificate.  
(EXAMPLE)

### ENGINEER'S CERTIFICATION

I certify that the design of this underground fuel storage system meets or exceeds the following:

Commonwealth of Pennsylvania  
Title 37 – Law, Statement of Policy (Effective November 1, 1993)  
Pennsylvania State Police  
Subpart B: Flammable and Combustible Liquids,  
Chapter 14, Sections 14.1 – 14.5

HS20-44 Loading, as defined in Standard Specifications for Highway Bridges, adopted by AASHTO (latest edition).

\_\_\_\_\_(signed)  
Pennsylvania, Registered Engineer

Certificate No. \_\_\_\_\_  
(seal)