



**CITY OF CHICAGO
DEPARTMENT OF ENVIRONMENT
UNDERGROUND STORAGE TANK UNIT
30 N. LASALLE STREET, 25th FLOOR
CHICAGO, IL 60602**

REQUIRED CHECKLIST FOR UNDERGROUND STORAGE TANK INSTALLATION

UST installations shall follow 41 Ill Adm Code Part 170 and any referenced material. The following checklist shall be followed as prescribed by the Department of Environment's regulations. These requirements do not exempt anyone from other State or Federal requirements or regulations. Underground Storage Tank or UST includes underground pipes and cathodic protection connected thereto.

- _____ A. Secure proper permitting and required notices of installation to the DOE. 170.105
- _____ B. Conduct on-site inspection to ensure accuracy of approved blue prints, drawings and actual equipment being installed. 170.105
- _____ C. Equipment with sufficient lifting capacity shall be used to unload and place USTs into the tank excavation. Tanks shall not be rolled, dropped or dragged. API 1615 3.4.1
- _____ D. Upon delivery, at installation site, tanks and piping shall be inspected to detect any evidence of damage to coating or structure. API 1615 3.4.1
- _____ E. Upon discovery of any damage to tanks or piping, repairs shall be in accordance with the manufacturer's instructions and/or supervision. API 1615 3.5.1.2
- _____ F. Prepare excavations to ensure safe movement of equipment and materials. Excavations shall provide adequate space of the installation of tanks, piping and ancillary equipment. Special attention shall be given to sloping or shoring the sides of the excavation to make them stable. API 1615 5.1.2

S T O P ! ! !

DOE Tank Specialist must witness ALL testing of USTs before installation, the placement of USTs and all backfilling operations around the USTs. 425 ILCS 25/9

- _____ G. To prevent flotation of USTs, as a result of high water table or flooding, approved anchorage methods and/or ballasting shall be installed. API 1615 6.2 - 6.4
- _____ H. Pipe trenches shall meet manufacturer's specifications and API 1616. Section 10.3.1, for depth, width, slope, spacing and placement of pipe within. 170.420(e)(5) API 1615 10.3.1
- _____ I. Pipe installation shall meet manufacturer's specifications and API 1615 Section 9.3 and 9.4. Joint adhesive and thread sealant shall meet manufacturer's requirements for petroleum products and/or gasoline - ethanol and gasoline - methanol blends. API 1615 9.3 - 9.4
- _____ J. Electrical conduit shall be routed away from product piping, and shall not be installed in the same trenches as product piping. PEI 100 section 11.1

S T O P ! ! !

DOE Tank Specialist must witness air test of pipe installation and backfilling of pipe trenches. 425 ILCS 25/9

- _____ K. Wiring of electrical pumps and all electrical equipment in connection therewith shall conform to Chapter 5 of the 1981 Edition of the National Electrical Code, NFPA #70. 170.90(a)(d)
- _____ L. Tank owner must file the Notification of Underground Storage Tank form within 30 days after completed installation. 170.440(a)
- _____ M. Contractor must file a completed manufacturer's installation checklist for USTs and piping, along with the completed installation affidavit, within 30 days after completed installation. 170.420(e)(5)