

# New Underground Storage Tank System Installation Application

(Petroleum Products and Hazardous Substances)

An application fee of **\$100.00 per tank** must accompany this application. This completed application form and installation plan(s) must be submitted to KDHE, a **minimum of ten (10) days prior** to the anticipated installation date.

**KDHE USE ONLY:**

Submit to: **Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410 Phone: 785-296-8061  
Topeka, KS 66612-1367 Fax: 785-559-4260  
[www.kdheks.gov/tanks](http://www.kdheks.gov/tanks)**

State of Kansas - Division of Environment  
**APPROVED**  
When constructed to conform with Art. 44  
Date: \_\_\_\_\_  
By: \_\_\_\_\_

### I. Facility Information - Please Print Clearly or Type

- A. Facility Name: \_\_\_\_\_
- B. Facility Address: \_\_\_\_\_  
(street) (city) (state) (zip)
- C. Contact Person: \_\_\_\_\_ Phone: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_
- D. Legal Location: \_\_\_\_\_ County: \_\_\_\_\_
- E. Qtr. Section: \_\_\_\_\_ Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ E/W (circle one)
- F. New facility? \_\_\_\_\_ Existing facility? \_\_\_\_\_ If existing, number of tanks already at this location: \_\_\_\_\_
- G. Are tanks to be taken out of service because of this new installation?  
No \_\_\_\_\_ Yes \_\_\_\_\_ If "Yes," how many? \_\_\_\_\_
- H. Will new tank(s) occupy old tank excavation? Yes \_\_\_\_\_ No \_\_\_\_\_ If "Yes," how many? \_\_\_\_\_
- I. Are existing tanks that are being removed: Single Wall \_\_\_\_\_ or Double Wall \_\_\_\_\_

### II. Tank Owner Information

- A. Owner Name: \_\_\_\_\_
- B. Owner Address: \_\_\_\_\_  
(street) (city) (state) (zip)
- C. Contact Person: \_\_\_\_\_ Phone: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_  
Email \_\_\_\_\_ Fax: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_
- D. Owner Type: State/Local Government \_\_\_\_\_ Federal \_\_\_\_\_ Private \_\_\_\_\_ Retail \_\_\_\_\_

### III. Contractor Information

- A. Contractor Name: \_\_\_\_\_ Lic. No. and Exp. Date: \_\_\_\_\_
- B. Contractor Address: \_\_\_\_\_  
(street) (city) (state) (zip)
- C. Contact Person: \_\_\_\_\_ Phone: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_  
Email: \_\_\_\_\_ Fax: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_
- D. Licensed Installer: Name \_\_\_\_\_ IO# \_\_\_\_\_
- E. List other contractors and their duties: \_\_\_\_\_  
\_\_\_\_\_

### IV. Observation Tubes: One observation tube is required for every 400 square feet of excavated area or fraction thereof.

- A. Estimated area of tank basin excavation: \_\_\_\_\_ square feet. (a minimum of 2 feet is required on all tank sides/ends, the area of multiple basins at the same facility must be calculated separately)
- B. Observation tubes being installed: \_\_\_\_\_

**V. Tank Information:** Secondary containment is required on all tanks that store hazardous substances after July 1, 2013. Each compartment of a multi compartment tank will be assigned an individual tank ID number.

Tank Numbers:				
A. Type of Tank FRP/STiP3/ACT-100				
B. 3 <sup>rd</sup> party certification UL no./ASTM no./ACT-100				
C. Double Wall Tank (brine or dry Interstice)				
D. Tank Capacity (gals)				
E. Tank Dimensions Length, diameter				
F. Manufacturer				
G. Product Stored				
H. ATG Type manufacturer & model #				
I. Spill Prevention manufacturer & model #				
J. Overfill Prev. auto. shutoff/audible alarm/ball float valve manufacturer & model #				
K. STP Containment manufacturer. & model #				
L. Backfill Type sand/gravel/crushed rock				
M. Tank Cover dirt, concrete, asphalt				
N. Tank Manifolds siphon lines				

**O. Anchoring System:** If subsurface water is above the base of the tank(s) or tanks are located in a flood plain, an anchoring system will be required. System description: \_\_\_\_\_

**Note:** If no anchoring system is being installed, then documentation of subsurface water levels must be submitted to KDHE.

P. A precision (0.1gph) tank tightness test is required at the time of installation prior to operation to insure the system is tight. Documentation of the tank and line tightness must be submitted on the UST011 form along with any printouts from the tank and line monitors. Testing Method: \_\_\_\_\_

**Q. Release Detection for Tanks:** As of July 1, 2013 all tanks must be secondarily contained and checked for releases using **interstitial monitoring**. Manufacturer and model #: \_\_\_\_\_

**VI. Product Line Information:** Secondary containment of all pressurized and conventional suction piping is required after July 1, 2013. (Safe Suction is exempt from the secondary contained product line requirement, but must have dispenser sumps and sensors installed to monitor for leaks from the dispenser)

Tank/Line Numbers				
A. Manufacturer				
B. Type of Material FRP, Flexible non metallic				
C. Diameter & Length (Units: inches & feet)				
D. Dispenser Manf./Model <b>Total Dispensers</b> _____				
E. Dispenser type: Press., SS, CS				
F. Dispenser Containment manufacturer & model #				

Product line information continued:

**G. Product Line Monitoring:** Line release detection method must meet the requirements of EPA regulations parts 280.41 and 280.44.

1. Line Release Detection: As of July 1, 2013 all pressurized and conventional suction product lines must be secondarily contained and checked for releases using **interstitial monitoring**.

Manufacturer and Model: \_\_\_\_\_

2. Required Release Detection for Pressurized Lines. (Must be able to alert the operator to a leak of 3.0 gph at 10psi line pressure within one hour.)  Mechanical Leak Detector,  Automatic Line Monitor,  LLD with Continuous Alarm,  LLD with Shutoff,  Other

Manufacturer and Model: \_\_\_\_\_

**VII. Plans and Notifications Form**

\*\* Proposed Installation Date: \_\_\_\_\_

This completed application form and installation plan(s) must be submitted to KDHE in Topeka, a minimum of (10) days prior to the \*\*proposed installation date. Plans should document the location of the tank, islands, dispensers, lines and vents, monitoring equipment, observation tubes, nearby structures, utilities, and property boundaries. Include a scale and north arrow. Please refer to the checklist below to assure that site plans are complete. Any changes to the proposed plans must be approved prior to installation. As-built drawings and the UST compliance Verification must be submitted within 30 days of the completion of the installation and before the temporary operating permit is issued. Copies of the submitted data should be provided to the tank owner.

**A. Checklist for Submission of Site Plans**

Item on Site Plan	Yes	No
Location of tank(s), islands, and dispensers.		
Location of lines and vents.		
Location(s) of monitoring equipment.		
Location(s) of observation tubes.		
Locations of nearby structures		
Locations of utilities.		
Locations of property boundaries.		
Scale.		
North Arrow.		

**VIII. Applicant's Certification**

I certify that the information above is true to the best of my knowledge and that all equipment will be installed in compliance with the manufacturers' installation requirements. This installation will be performed in compliance with all federal, state, and local regulations.

\_\_\_\_\_  
**Owner's Signature**

\_\_\_\_\_  
(date)

\_\_\_\_\_  
**Contractor's Signature**

\_\_\_\_\_  
(date)

Please direct questions regarding installation of USTs to KDHE, Storage Tank Section, 785-296-8061. Regulations requiring the installation of observation tubes in tank excavations follow on the next page.

State of Kansas  
Department of Health and Environment  
Permanent Administrative Regulations  
**Article 44. – Petroleum Products Storage Tanks**

K.A.R. 28-44-16(b) All new underground storage tank installations shall be equipped with observation tubes to comply with the following requirements:

- (1) Observation tubes shall be constructed in accordance with the following:
  - (A) Tubes shall measure four inches in diameter on the inside;
  - (B) Tubes shall extend from the base of the excavation to ground surface;
  - (C) Screened opening shall extend from the base of the excavation to a point no more than three feet below ground surface. The screened openings shall be sized to allow liquid or vapor to be intercepted by the tube without allowing the backfill material to enter the tube;
  - (D) Tubes shall be equipped with water tight caps on the top and bottom;
  - (E) The annular space between the tube and pavement shall be sealed. The pavement or ground surface shall be graded in such a manner to prevent surface water from pooling around the tubes.
  - (F) Each observation tube shall be marked and secured to prevent accidental tampering.
- (2) There shall be at least one observation tube for each 400 square feet of excavated area or fraction thereof. Where numerous tank excavations are located on the same property, the number of observation tubes shall be determined for each separate excavation. (Authorized by and implementing K.S.A. 1989 Supp. 65-34, 105; effective Nov. 26, 1990.)