

KDHE Underground Storage Tank Repair, Upgrade, and Installation Paperwork Submittal

(UST009) UST Repair Notification: Submitted when replacing equipment with the same piece of equipment or repairs needed to restore the equipment. KDHE can be notified about this work by phone, fax, or email.

Examples: MLD, ALM, spill basin, drop tubes, leaking lines, breaks in CP wiring, STP motors, ATG probes, sump sensors, overflow alarms

Submittal:

1. Notify KDHE: Call or email KDHE about any emergency repair or submit UST009 by fax or email ASAP.
2. Once the approval is given work can be completed. Emergency repairs can be completed as needed without approval from KDHE.
3. Submit the UST004 Compliance Verification form once the work is completed and any other support documents. Note: if the work is already completed when submitting the UST009 repair form, please submit the verification form at the same time.

(UST012) UST Upgrade –Modification: Submitted when switching to a different model of equipment, adding new equipment, or reconfiguring a facility layout. All upgrade work should be approved by KDHE before it is started.

Examples: Replacing existing piping, changing from ALM to MLD or MLD to ALM, adding dispensers islands, installing a new ATG, installing a new cathodic protection system

Submittal:

1. Submit the completed UST012 form and any supporting documents: Examples- CP plans, site drawing, equipment list.
2. Work can be completed after approval is given.
3. Submit the UST004 Compliance Verification form once the work is completed and any other support documents.

(UST011) Underground Storage Tank System Tightness Test: Submitted for repairs, upgrades, and new installations.

Examples: newly installed tanks, newly installed product lines, leaking line, new flex connectors, back into service, failed test, water ingress.

Tank Tightness Test: Must pass a 0.1gph leak rate. ATG testing must have the product volume at 90% and the printouts will need to be submitted showing the results.

Line tightness: Must pass a 0.1 gph leak rate. Printouts will need to be included when using ALMs.

Function Test: ALM or MLD must shutdown at 3.0gph leak rate.

(UST004) UST Compliance Verification: submitted for completed repairs and upgrade

Only check the equipment installed or repaired, and signed by the licensed contractor on site.

This form can be submitted to verify the proper installation of equipment that was noted as a deficiency on a compliance inspection or equipment needed to be verified when no work was completed.

(UST006) New Underground Storage Tank Application:

The additional items listed below should be submitted with the application from.

1. \$20 per tank fee
2. Detailed site drawing showing tank placement, line layout, dispenser placement, and observation tubes. (one observation tube for every 400sqft of excavated area, Minimum area is 2 feet on each side and end of each tank)
3. Equipment list: Examples-Tanks, Product lines, spill equipment, overfill equipment, STP and dispenser containment sumps, automatic tank gauge equipment, interstitial monitoring equipment, flex connectors

(UST007) Kansas registration Notification for UST: submitted after the install is completed and the new tanks are ready to be brought into service. Owner must sign the first page and contractor must sign the second page

Submit the following support documents with the registration: (Contractor: UST011 Tank & Line Tightness and line monitoring function test, UST 017 Secondary Containment Testing, UST018 Sensor Test and, interstitial monitoring equipment printouts.) (Owner: Financial Responsibility and A/B Operator Training Certificate)

(UST005) Impressed Current Cathodic Protection Certification & (UST010) Sacrificial Anode Cathodic Protection Certification: submitted when repairs or upgrades are made to the CP system.

Electronic Monitoring Equipment Printouts: important for the compliance at the facility. When repairing or upgrading this equipment, try to print history reports for the tank test and line test results if the work to the system could cause a loss of the ATG memory

1. Tank Test Printouts: Submit a 0.2gph tank test or CSLD test when replacing the ATG console, console boards, tank probes, or reprogramming the console.
2. Automatic Line Monitor Printouts: Submit 0.2pgh line test when replacing the PLLD or reprogramming the unit.
3. Interstitial Monitoring: Submit sensor reports when replacing sensors or reprogramming the system.

“As Built” Drawings: They are required if the final installation was different than the originally approved plans. This applies to all repairs, upgrades, and new installs.

Paperwork Submittal Guide Examples

Repairs

Replacing bad MLD with a new MLD: UST009 Repair Notification form, UST004 Compliance Verification, and UST011 function test

Replacing bad ALM with new ALM: UST009 Repair Notification form, UST004 Compliance Verification, and UST011 function test, ATG printout showing passing 0.2gph line test

Replacing bad sump sensor: UST009 Repair Notification form, UST004 Compliance Verification, ATG printout showing current sensor status as “normal”

Replacing ATG probe: UST009 Repair Notification form, UST004 Compliance Verification, ATG printout showing passing 0.2gph tank test

Replacing ATG board or reprogrammed ATG: UST009 Repair Notification form, UST004 Compliance Verification, ATG printout showing passing 0.2gph tank test (line printouts should also be submitted if ALMs are installed)

Replacing leaking flex connector: Called KDHE to report leak, UST009 Repair Notification form, UST004 Compliance Verification, UST011 Line Tightness test

Repairing leaking line: Called KDHE to report leak, UST009 Repair Notification form, UST004 Compliance Verification, UST011 Line Tightness test, detailed site drawing or photos showing the location of the repaired line

Replacing bad spill prevention equipment, overflow prevention equipment, or drop tube: UST009 Repair Notification form, UST004 Compliance Verification

Replacing STP motor: UST009 Repair Notification form, UST004 Compliance Verification

Replacing complete STP unit and fittings to attach it to the product line or flex connector: UST009 Repair Notification form, UST004 Compliance Verification, UST011 Line Tightness test

Repairing damage wiring for an impress current CP system: UST009 Repair Notification form, UST004 Compliance Verification, UST005 Impressed Current CP test

Replacing a single anodes on a STI p3 tank: UST009 Repair Notification form, UST004 Compliance Verification, UST010 Sacrificial Anode CP test

Upgrades

Note: All upgrades should be approved before the work begins. When doing any work on the product lines verify with KDHE if the secondary containment requirements will apply to the proposed work.

Installing all new product lines and they are required to be secondarily contained: UST012 Upgrade Modification, detailed site drawing, equipment list, UST004 Compliance Verification, UST011 Line Tightness test, hydrostatic sump test, and current interstitial monitoring report (sump sensor report)

Installing an additional dispenser island that isn't required to be secondarily contained:

UST012 Upgrade Modification, detailed site drawing, equipment list, UST004 Compliance Verification, UST011 Line Tightness test

Installing new MLDs to replace old ALMs: UST012 Upgrade Modification, UST004 Compliance Verification, UST011 line tightness test & function test

Installing new ALMs to replace old MLDs: UST012 Upgrade Modification, UST004 Compliance Verification, UST011 line tightness test & function test (the new ALM can be used to complete the 0.1gph line test), ATG printout showing passing 0.2gph line test

Installing new model/type of spill prevention or overfill prevention equipment: UST012 Upgrade Modification, UST004 Compliance Verification

Installing a new automatic tank gauge: UST012 Upgrade Modification, UST004 Compliance Verification, ATG printout showing passing 0.2gph tank test

Installing a new impressed current cathodic protection system to replace an existing system: UST012 Upgrade Modification, detailed CP plans approved by a NACE certified corrosion engineer, UST014 Cathodic Protection Review Form for Existing Systems, UST004 Compliance Verification, UST005 Impressed Current CP test

Problems:

Missing signatures

No ATG or ALM printouts were submitted with the UST004 Compliance Verification form

Missing equipment model numbers

No site drawings submitted

New install site drawings missing observation tubes

Unlicensed workers submitting paperwork

Function testing and line tightness testing not completed with repairs or upgrades as needed

Equipment verified on the UST004 form that was not worked repaired or upgraded

Not filling out the test methods and leak rates on the UST011 form

Filling out line test results on the UST011 form when only a function test was completed

Not calling KDHE to reports leaks

40 CFR § 280.50 Reporting of suspected releases.

Owners and operators of UST systems must report to the implementing agency within 24 hours, or another reasonable time period specified by the implementing agency, and follow the procedures in § 280.52 for any of the following conditions:

(a) The discovery by owners and operators or others of released regulated substances at the UST site or in the surrounding area (such as the presence of free product or vapors in soils, basements, sewer and utility lines, and nearby surface water);

(b) Unusual operating conditions observed by owners and operators (such as the erratic behavior of product dispensing equipment, the sudden loss of product from the UST system, or an unexplained presence of water in the tank), unless system equipment is found to be defective but not leaking, and is immediately repaired or replaced; and,

(c) Monitoring results from a release detection method required under § 280.41 and § 280.42 that indicate a release may have occurred unless:

- (1) The monitoring device is found to be defective, and is immediately repaired, re-calibrated or replaced, and additional monitoring does not confirm the initial result; or
- (2) In the case of inventory control, a second month of data does not confirm the initial result.

Definitions:

"Repair" means to restore a tank, pipe, spill prevention equipment, overfill prevention equipment, corrosion protection equipment, release detection equipment or other UST system component that has caused a release or a suspected release of product from the UST system or has failed to function properly. The term includes modification or correction of a storage tank through such means as relining, replacement of piping, valves, fill pipes, vents and liquid level monitoring systems, and the maintenance and inspection of the efficacy of cathodic protection devices, but the term does not include the process of conducting a tightness test to establish the integrity of a tank.

"Upgrade" means the addition or retrofit of some systems such as cathodic protection, lining, or spill and overfill controls to improve the ability of an underground storage tank system to prevent the release of product.

"Installation of a new motor fuel dispenser system" means the installation of a new motor fuel dispenser and the equipment necessary to connect the dispenser to the underground storage tank system, but does not mean the installation of a motor fuel dispenser installed separately from the equipment needed to connect the dispenser to the underground storage tank system.

"Replaced" means:

- (1) For a tank, to remove a tank and install another tank; and
- (2) for piping, to remove 50% or more of piping and install other piping, excluding connectors, connected to a single tank. For tanks with multiple piping runs, this definition applies independently to each piping run.

"Secondary containment" or "secondarily contained" means a release prevention and release detection system for a tank or piping. These systems have an inner and outer barrier with an interstitial space that is monitored for a release of regulated substances from the underground storage tank and piping.

"Release" means any spilling, leaking, emitting, discharging, escaping, leaching or disposing from a storage tank into groundwater, surface water or soils.