

Underground Storage Tank (UST) Inspection Checklist

File Review

Facility/Tank Information

Violation #	Summary
F003	Failure to pay the Underground Storage Tank permit fees. KCOC 8.04.030
H650	Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees. 23 CCR 16 2711(d); HSC 6.7 25284
H651	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit. 23 CCR 16 2711; HSC 6.7 25284, 25286
H779	Failure to submit a complete and accurate UST Monitoring Plan. 23 CCR 16 2632(d)(1), 2634(d), 2641(h)
H780	Failure to submit a complete and accurate UST Response Plan. 23 CCR 16 2632(d)(2), 2634(e), 2641(h)
H655	Failure to submit or maintain a current facility plot plan. 23 CCR 16 2632(d)(1)(C), 2641(h)
H660	Owner/operator made false statements, representation, or certification on an application, record, or other document. HSC 6.7 25299(a)(8) and/or 25299(b)(7)
H661	Failure to submit the "Designated Underground Storage Tank Operator Identification Form" within 30 days of installing a UST system or within 30 days of a change in DO. 23 CCR 16 2715(a)(1)(B), 2715(a)(3)
H858	Failure to submit the "Underground Storage Tank Statement of Understanding and Compliance Form." 23 CCR 16 2715(a)(1)(A), 2715(a)(2)

Testing

Violation #	Summary
H662	Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vacuum, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.). 23 CCR 16 2638(a) & (b), 2641(j), 2715(f)
H788	Failure to submit the "Monitoring System Certification Form" to the UPA within 30 days of completion of the test. 23 CCR 16 2638(c), 2638(d)
H663	Failure to conduct secondary containment testing, or meet one or more of the following requirements: 1) Within six months of installation and every 36 months thereafter. 2) Within 30 days of a repair or discontinuing vacuum, pressure or hydrostatic monitoring. 3) Using a procedure that demonstrates the system works as well as it did upon installation. 4) Using applicable manufacturer guidelines, industry codes, engineering standards, or professional engineer approval. 5) Performed by a certified service technician. 6) Maintaining records of secondary containment testing for 36 months. 23 CCR 16 2637(a), 2637(b), 2637(c), 2637(d), 2712(b)(1) (F)
H665	Failure to submit a copy of the secondary containment test results on the "Secondary Containment Testing Report Form" to the UPA within 30 days after the test. 23 CCR 16 2637(e),(f)
H859	Failure to submit a copy of the spill containment test results on the "Spill Container Testing Report Form" to the UPA within 30 days after the test. 23 CCR 16 2637.1(d), 2637.1(e)
H860	Failure to submit a copy of the overfill prevention equipment inspection results on the "Overfill Prevention Equipment Inspection Report Form" to the UPA within 30 days after the inspection. 23 CCR 16 2637.2(d), 2637.2(e), 2665(a), 2665(b)
H666	Failure to perform one of the following line integrity test(s): 1) A 12 month test for pressurized double-walled piping that does not utilize fail safe and positive shut down, or 2) Within 30 days of the date of the completion of a repair to the primary piping. 23 CCR 16 2636(f)(3), 2643(c)(3); HSC 6.7 25290.2(g), 25291(f), 25292(e);
H667	For single-walled conventional suction systems, failure to conduct 0.1 gallon per hour piping integrity test at one of the following times: 1. Every 36 months. 2. Within 30 days of the date of the completion of a repair to the piping. 23 CCR 16 2643(d), 2661(f)
H668	For single-walled gravity systems, failure to conduct a 0.1 gallon-per-hour line piping integrity test at one of the following times: 1) Every 24 months. 2) Within 30 days of the date of the completion of a repair to the piping. 23 CCR 16 2643(e), 2661(f)

H669	Failure to complete one or more of the requirements of tank lining, including but not limited to: 1) Submit proper written tank lining certification to the UPA within 30 days of completion of the inspection. 2) Perform tank integrity test and/or vacuum test following lining, employ proper coatings expert and/or special inspector. 3) Failure to inspect a steel tank which has been lined or repaired using the interior lining method within 120 months of lining and every 60 months thereafter. 4) Maintain records for the life of the tank. 23 CCR 16 2663, 2712(b)(6)
H672	Failure to submit enhanced leak detection testing results to the board and the UPA within 60 days of completion of the test. 23 CCR 16 2644.1(a)(5)
H673	Failure to submit the statistical inventory reconciliation (SIR) Report every 12 months to the UPA. 23 CCR 16 2646.1(j)
H674	Failure to notify the CUPA 48 hours prior to testing. 23 CCR 16 2637(g), 2637.1(f), 2637.2(f),2638(e),2643(g),2644.1(a)(4)
H675	Failure to conduct initial or triennially ELD testing for UST systems located within 1,000 feet of a public drinking water well. 23 CCR 16 2640(e), 2644.1; HSC 6.7 25292.4(a), 25292.5(a)

Install/Repair

Violation # Summary

H679	Failure to submit as-built plans for the location and orientation of the tanks and appurtenant piping systems for new installations and/or with the permit application. 23 CCR 16 2635(e)(8)
------	--

UST System Observations

General Monitoring

Violation #	Summary
H681	Failure of the leak detection equipment to have an audible and visual alarm as required. 23 CCR 16 2632(c)(2)(B), 2634(d)(1)(A), 2636(f)(1)
H682	Failure to continuously monitor the interstitial space of a double-walled tank with an audible and visual alarm system. 23 CCR 16 2631(g), 2632(c)(2)(A) & (B)
H686	Failure to meet one or more of the following monitoring requirements in lieu of the requirement to be tightness tested every 12 months: 1) The monitoring system maintains all product piping outside the dispenser to be fail-safe and shut down the pump when a leak is detected. 2) The monitoring system shuts down the pump or stops flow when a leak is detected in the under dispenser containment (UDC).. 23 CCR 16 2636(f)(4)
H687	Failure of the double-walled pressurized piping to be continuously monitored with a system that activates an audible and visual alarm or stops flow at dispenser when a leak is detected. 23 CCR 16 2636(f)(1), 2666(b)(2)
U687	Failure of the under dispenser containment to be continuously monitored with a system that activates an audible and visual alarm or stops flow at the dispenser when a leak is detected. 23 CCR 16 2636(f)(1), 2666(b)(2)
H680	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained in accordance with manufacturer's instructions. 23 CCR 16 2638(a), 2641(j)
H691	Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance into the secondary containment. HSC 6.7 25291(b), 23 CCR 16 2636(a)(1)
H694	Failure of leak detection equipment to be installed, maintained and located such that the equipment is capable of detecting a leak at the earliest possible opportunity. 23 CCR 16 2630(d), 2641(a)
H695	Leak detection equipment disabled or tampered with in a manner that would prevent the monitoring system from detecting and/or alerting the owner/operator of a leak. HSC 6.7 25299(a)(9)
H789	Failure of the functional line leak detector (LLD) for emergency generator tank systems to monitor with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch within an hour and restrict or shut off the flow of product through the piping or triggers a visual and audible alarm. 23 CCR 16 2636(f), 2666(c), 2666(f)
H696	Failure of a UST system installed on or after July 1, 2003 and before July 1, 2004 to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary containment and capable of detecting water intrusion into the secondary containment. HSC 6.7 25290.2(d)
H684	Failure to properly affix tag/sticker on each monitoring equipment being certified, repaired, or replaced. 23 CCR 16 2638(f), 2641(j)

VPH Monitoring

Violation #	Summary
H699	Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e. vacuum, pressure, hydrostatic (VPH) monitoring. HSC 6.7 25290.1(e)
H700	Failure of a UST system installed on or after July 1, 2004 to be designed and constructed with a monitoring system capable of detecting the entry of the liquid or vapor-phase of the hazardous substance stored in the primary containment into the secondary containment and capable of detecting water intrusion into the secondary containment. HSC 6.7 25290.1(d)

Cathodic Observation

Violation #	Summary
H701	Failure to comply with one or more of the following requirements for the cathodic protection system: 1) Install corrosion protection for USTs and/or the field-installed cathodic protection system to meet the consensus standards. 2) For impressed current: - Have corrosion protection equipment turned on and functioning properly. - Inspect the impressed-current system every 60 days. - Test the impressed-current system within six months of installation or repair and at least every 36 months thereafter. 3) For sacrificial anodes: - Check sacrificial anodes within six months of installation or repair and at least once every 36 months thereafter in accordance with the manufacturer's instructions. 4) For all corrosion protection systems: - Maintain records for 78 months on-site or off-site at a readily available location if approved by the UPA. 23 CCR 16 2635(a)(2), 2636(b), 2662(c)(1)(B), 2712(b)(3)

Single Walled Tank Monitoring

Violation #	Summary
H688	Failure of the continuous in-tank leak detection (CITLD) system to perform a 0.2 gallon-per-hour leak test that determines the leak status of the tank at least once every 30 days. 23 CCR 16 2643(b)(3)
H689	Failure of the automatic tank gauging (ATG) system to perform valid 0.2 gallon-per-hour leak tests or generate hard-copy test reports at least once every 30 days. 23 CCR 16 2643(b)(1)
H692	Failure to outfit the single-walled UST system with a monitoring system capable of detecting a leak. 23 CCR 16 2641(e); HSC 6.7 25292(a)
H702	Failure to conduct groundwater and/or vadose zone monitoring or maintain site assessment as required. 23 CCR 16 2647, 2648, 2712(b)(4)

Single Walled Pipe Monitoring

Violation #	Summary
H703	Failure to perform one or more of the following on a single-walled pressurized piping system: 1) A 0.1 gallons per hour test at least once every 12 months unless a 0.2 gallons per hour test is performed every 30 days. 2) A 0.1 gallons per hour test within 30 days of the date of the completion of a repair to the piping. 23 CCR 16 2643(c)(2), 2643(c)(3), 2661(f); HSC 6.7 25292(e)(2)

Line Leak Detector

Violation #	Summary
H704	Failure to install LLD on pressurized piping system. 23 CCR 16 2636(f)(2), 2636(f)(5)(B), 2643(c)(1), 2666(f); HSC 6.7 25290.1(h), 25290.2(g), 25291(f), 25292(e)
H707	Failure of the line leak detector (LLD) monitoring single-walled pressurized piping to meet the following requirements: 1) Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch. 2) Shut down the pump when a leak is detected or when the LLD fails or is disconnected. 23 CCR 16 2666(c), 2643(c)(1)
H708	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: 1) Monitored with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch within an hour. 2) Restrict or shut off the flow of product through the piping when a leak is detected. 23 CCR 16 2636(f)(2)

Suction Piping

Violation #	Summary
H709	Safe Suction piping fails to meet one or more of the following requirements: 1) Below grade piping sloped to drain back into storage tank if the suction is released; 2) Only one check valve on the piping located directly below the suction pump; 3) Inspection method is provided which readily demonstrates compliance. 23 CCR 16 2636(a)(3), 2641(b)

Secondary Containment

Violation #	Summary
H711	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003. HSC 6.7 25290.1(c)(3), 25290.2(c)(3)
H712	Failure to maintain secondarily contained piping to allow liquid to flow into the sump in the event of a leak (i.e., failure to remove test boot). 23 CCR 16 2630(d), 2641(a)
H714	Failure to maintain secondary containment (e.g. failure of secondary containment testing). HSC 6.7 25290.1(c), 25290.1(e), 25290.2(c), 25291(a)(2)
H716	Failure to meet one or more of the following requirements: 1) Install or maintain a liquid-tight spill container. 2) Have a minimum capacity of five gallons. 3) Have a functional drain valve or other method for the removal of liquid from the spill container. 4) Be resistant to galvanic corrosion. 5) Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. 6) Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. 7) Tested by a certified UST service technician. 8) Maintain records of spill containment testing for 36 months. 23 CCR 16 2635(b), 2637.1(a), 2637.1(b), 2637.1(c), 2665(a), 2665(b), 2712(b)(1)(F); HSC 6.7 25284.2

Overfill

Violation #	Summary
H719	Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.. HSC 6.7 25292.1(a)
H720	Failure to comply with one or more of the following overfill prevention equipment requirements: 1) Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or 2) Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or 3) Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or 4) Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. 5) Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. 6) Perform an inspection at least once every 36 months, at installation and every 36 months thereafter. 7) Inspected within 30 days after a repair to the overfill prevention equipment. 8) Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. 9) Inspected by a certified UST service technician. 10) Maintain records of overfill prevention equipment inspection for 36 months. 23 CCR 16 2635(c)(1), 2635(d), 2637.2(a) 2637.2(b), 2637.2(c), 2665, 2712(b)(1)(G)

On Site Records

Certifications

Violation #	Summary
H724	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance. 23 CCR 16 2711(a)(11); 23 CCR 18 2808.1, 2809-2809.2; HSC 6.7 25292.2(a); HSC 6.75 25299.30-25299.34
H725	Failure to submit and/or maintain documentation regarding compatibility for UST system components. 23 CCR 16 2631(j), 2631(l), 2631.1(b), 2640.1, 2665(b), 2666(b)(2), 2666(e)(2), 2711(c), 2712(b)(5)

Designated Operator

Violation #	Summary
H726	Failure to maintain on-site, or off-site at a readily available location if approved by the UPA, copies of the "Designated Underground Storage Tank Operator Visual Inspection Report" and all attachments for 36 months. 23 CCR 16 2716(f)
H727	Failure to comply with one or more of the following Designated Operator (DO) inspection requirements: 1) Conduct the DO visual inspection at least once every 30 days. 2) Be performed by an ICC certified DO. 3) Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. 4) Inspect for the presence of liquid/debris in spill containers. 5) Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. 6) Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. 7) Check that all testing and maintenance has been completed and documented. 8) Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). 9) The owner/operator sign and date the Designated Underground Storage Tank Operator Visual Inspection Report within 72 hours of being provided a signed copy. 23 CCR 16 2716(a) through (e)
H731	Failure to comply with one or more of the following: 1) Provide initial training before the individual performs the duties of a facility employee. 2) Train facility employees in the proper operation and maintenance of the underground storage tank system at least once every 12 months. 3) Have at least one facility employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO). 23 CCR 16 2715(c), 2715(c)(1), 2715(c)(2)
H781	Failure to maintain a copy of the "Facility Employee Training Certificate" on-site or off-site at a readily available location, if approved by the UPA. 23 CCR 16 2715(c)(3), 2715(c)(4)

Logs

Violation #	Summary
H729	Failure to maintain monitoring records for 36 months and/or failure to maintain maintenance records (including written performance claims and calibration records) for the release detection system for 60 months. 23 CCR 16 2712(b)(1)and(2)
H732	Failure to meet one or more exemption requirements for emergency generator tank system unburied fuel piping: 1) Conduct visual inspections each time the tank is operated but no less than monthly. 2) Maintain a log of inspection results for review by the UPA. HSC 6.7 25281.5(b)(3)
H730	Failure to conduct monitoring and maintain written records for single-walled conventional suction systems. 23 CCR 16 2643(d)
H733	Failure to meet one or more of the following requirements for exclusion of unburied fuel delivery piping at a marina: 1) Conduct daily inspections of the piping. 2) Maintains a log of inspection results for review by the UPA. HSC 6.7 25281.5(b)(2)
H734	When statistical inventory reconciliation (SIR) results indicate failure or are inconclusive, owner/operator failed to complete one or more of the following: 1) Notify UPA of a possible release within 24 hours; 2) Submit copy of the report to the UPA within 10 days; 3) Inspect records for errors; 4) Physically inspect the UST system within 24 hours; 5) Have meters recalibrated within 48 hours of receipt of report. 23 CCR 16 2646.1(d)
H735	Failure to meet one or more of the requirements of statistical inventory reconciliation (SIR), including, but not limited to: 1) Measurements taken daily, 2) Calculated every 30 days, 3) Capable of detecting a 0.2 gallons per hour release, 4) Report a quantitative leak rate using a threshold value that does not exceed one-half the minimum detectable leak rate, 5) Conduct a tank integrity test every 24 months, 6) Conduct piping and or tank test within 15 days of receipt of two successive SIR reports which are inconclusive or which indicate a possible release, 7) And/or calibrate dispenser meters. 23 CCR 16 2643(b)(2), 2646.1(a)-(h),(j),(k)

Maintenance/Tests

Violation #	Summary
H778	Failure to maintain UST records in sufficient detail to enable the UPA to determine whether the UST systems are in compliance. HSC 6.7 25293
H736	Failure to maintain records of repairs, linings, and upgrades on site, or off site if approved by the UPA, for the life of the UST. 23 CCR 16 2712(b)(6)

Documentation

Violation #	Summary
H792	Failure to retain a paper or electronic copy of the permit to operate at the facility. 23 CCR 16 2712(i)
H654	Failure to submit and have a current UST Response Plan readily available on site. 23 CCR 16 2712(i), 2632(d)(2), 2634(e), 2641(h)
H738	Failure to submit and have current UST Monitoring Plan readily accessible at the facility. 23 CCR 16 2712(i)
H739	Failure to implement or maintain a written agreement between the UST owner and operator. 23 CCR 16 2620(b); HSC 6.7 25284(a)(3)(A) & (B);
H740	Failure to record any unauthorized release from the primary containment. 23 CCR 16 2651; HSC 6.7 25294

General Operating Requirements

Permit Conditions/Approval

Violation #	Summary
H741	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system. 23 CCR 16 2712
H742	Failure to meet the conditions required to exempt an emergency generator tank system in a below-grade structure from UST regulations. HSC 6.7 25281.6(a)
H790	Failure to meet the conditions required to exempt a tank system located in a below-grade structure from UST regulations. HSC 6.7 25283.5(a)
H743	Failure to obtain approval from the UPA for a training program at an unstaffed facility and/or implement the approved training program. 23 CCR 16 2715(c)(2)
H744	Failure to demonstrate to the UPA that the equipment and methods used to monitor the UST system are certified by an independent third-party as complying with the standards set forth in 23 CCR 2643(f). 23 CCR 16 2630(d), 2632(c)(2) (A), 2643(f), 2644.1(a)(2)
H787	Failure to implement the corrections specified in the inspection report within 30 days of receiving an inspection report from either the UPA or special inspector. 23 CCR 16 2712(f)
H791	Failure to notify and/or prepare a report to the UPA upon discovery of a reportable or failed to record unauthorized release. 23 CCR 16 2650(e), 2652; HSC 6.7 25295(a)(1)

Red Tag

Violation #	Summary
H745	Red Tag has been removed, defaced, altered, or otherwise tampered with so that the information on the tag is not legible. 23 CCR 16 2717.1(g)
H746	Owner/operator deposited or allowed deposit of petroleum or a hazardous substance into a UST that has a red tag affixed to the fill pipe. 23 CCR 16 2717.1(f), HSC 6.7 25292.3(c)
H864	Owner/operator allowed dispensing of petroleum or a hazardous substance from a UST that has a red tag affixed to the fill pipe. HSC 6.7 25292.3(c)(1)(C)

Tank Closure

Violation #	Summary
H747	Failure to comply with temporary closure requirements. 23 CCR 16 2670(b), (e), (f), 2671; HSC 6.7 25298
H748	Failure to comply with all permanent closure requirements. 23 CCR 16 2670, 2672; HSC 6.7 25298(c)

Install/Repair

Violation #	Summary
H749	Failure to take appropriate action to repair and retest any leaking UST component which is discovered from an enhanced leak detection (ELD) test for UST systems located within 1,000 feet of a public drinking water well. HSC 6.7 25292.4(d), 25292.5(c)
H795	Failure to construct, operate, and maintain primary containment as product-tight. 23 CCR 16 2631(a); HSC 6.7 25290.1(c)(1), 25290.2(c)(1), 25291(a)(1)
H751	UST system is not made of or lined with materials that are compatible with the substance stored in the UST system. 23 CCR 16 2631.1, 2660(m); HSC 6.7 25290.1(c)(1), 25290.2(c)(1), 25291(a)(1)
H752	Failure to have either a striker plate installed or to have a drop tube-mounted bottom protector. 23 CCR 16 2631(c), 2662(d)
H753	Failure of primary or integral secondary containment to be approved for use by an independent testing organization or failure of non integral secondary containment to be designed and constructed to an engineering specification approved by a registered professional engineer or in accordance with a nationally recognized industry code or engineering standard. 23 CCR 16 2631(b), 2631(d), 2666(b)(2), 2666(e)(2)
H757	Failure to perform enhanced leak detection testing before the tank is placed in use. HSC 6.7 25290.1(j)
H861	Failure to upgrade single-walled pipe to double-walled continuous interstitially monitored pipe when replacement or repair is required. 23 CCR 16 2666(b)(2)
U002	Failure to obtain permit to install, replace, abandon, repair, modify, or test any part of the UST system containment or leak detection equipment. KCOC 8.48.050
U001	Failure of service technician(s), designated operator(s), installer(s), and/or employee(s) to obtain and maintain a proper and current International Code Council certification, manufacturer(s) certification, and/or license. 23 CCR 16 2715

General Facility Requirements

Violation #	Summary
H656	Administration/Documentation - General 23 CCR Chapter 16 Multiple Sections; HSC Chapter 6.7 Multiple Sections
H782	UST General Administration/Documentation Violations - Local Ordinance