



# 10-Year Inspection of Lined USTs

---

Department of Environmental Quality  
Storage Tank Division



# Conditions & Requirements

---

- \* If you do not know the date the UST was lined and/or if you did not receive or do not have records from the lining company, including a complete report of the tank evaluation, as well as design, installation and operational requirements of the lining system, you will be required to conduct as early 10 year structural integrity inspection.



# Business Decision

---

- \* If tank inspection indicates tank wall thickness is not 75% of the original wall thickness, the tank will have to be closed and removed.



# Liner Requirements

---

- \* A UST may only be upgraded once by internal lining



# Liner Requirements

---

- \* Tank linings that have bubbled, flaked, or disbonded from the tank surface, are not acceptable.
- \* These tanks must be closed and removed from the ground.



# Liner Requirements

---

- \* If tank is ultrasonically tested and found to still have 75 % of the original wall thickness, the O/O may install an impressed current cathodic protection system.



# 10-Year Inspection Requirements

---

- \* The O/O shall notify the STD of all inspections not less than 15 days before work begins.
- \* Liner inspection personnel shall be certified in Level I competence for nondestructive testing.



# 10-Year Inspection Requirements

- \* Ultrasonic thickness gauging shall be utilized, to assure average wall thickness is found to be not less than 75% of the original wall thickness specified in UL 58.
- \* The liner thickness shall be a minimum of 100-mil dry film thickness or greater.



# 10-Year Inspection Requirements

- ✧ A liner hardness test shall be performed using a Barcol Hardness Tester, or other acceptable instrument to determine that lining has maintained a hardness that meets liner manufacturer specifications.



# 10-Year Inspection Requirements

---

- \* An internal inspection surface continuity test of the tank interior shall be performed using a Holiday Detector with a silicon brush electrode.



# 10-Year Inspection Requirements

---

- \* A tank tightness is performed as part of the final evaluation. The use of an ATG tightness test is not acceptable.
- \* The inspecting company shall provide the O/O with a complete report of the UST evaluation. The certified ultrasonic testing inspector must sign and date the internal inspection report.



# Did Not Meet 10-Year Inspection

---

- \* A UST that fails to meet the inspection criteria for interior lining must be taken out of service immediately and either replaced or permanently closed within 6 months.