

TUCSON FIRE DEPARTMENT		Section: Standard Operating Guideline, Underground Storage Tanks Relines
TFD Fire PREVENTION DIVISION Page 1 of 2		Issued: 4/2/18 Revised: NEW

1.0 OBJECTIVES:

The objective of this document is to outline the policy and procedures for approving underground storage tank reline permit applications and underground storage tank reline inspections.

2.0 POLICY:

The Tucson Fire Department Fire Prevention Section shall be responsible for the enforcement of all applicable federal, state, and local laws regarding underground storage tank relines.

3.0 PROCEDURES:

3.1 PERMIT

- A. A permit is required to repair/modify a UST used for storage and dispensing of flammable and combustible liquids. Applicants must obtain a permit for repairing or modifying a UST from the Tucson Fire Department. The repair plans shall include the following:

The reason the reline is necessary.

A site plan that includes the location of the tank and adjacent structures and property lines. The location of the barrier fence around the excavation site shall also be included.

A letter from the tank manufacturer that the specified UST is permitted to be relined.

A Barcol Hardness test shall be performed. The results shall state the specified UST tank is permitted to be relined.

A letter from the reline product manufacturer stating the product is acceptable to use as reline material for the specified UST tank.

The contractor license number and UST Certification number that has been approved by the Arizona Department of Environmental Quality.

3.2 INSPECTION

- A. All piping that is connected to the repaired UST shall undergo inspection. The following steps shall be taken during inspection:

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1. All primary lines shall be pressurized to 50 psi. Pressure gauge for this test shall be a gauge that reads 0-60 psig.
 2. All secondary lines shall be pressurized to 5 psi. Pressure gauge for this test shall be a gauge that reads 0-15 psig for flexible piping. All rigid piping shall be tested at 10 psi. Pressure gauge shall read 0-15psig.
 3. Gauges shall hold pressure for the time of one hour and the pressure shall not drop.
 4. All piping that is exposed shall be kept clear of soil by a minimum of 4". A soap and water test shall be conducted on visible piping. Any bubbles shall void the test.
- B. All sumps from the UST that have been compromised shall undergo inspection. The following steps shall be taken during inspection:
1. Turbine sumps shall be filled with water above the highest penetration. The test shall be held for the time of one hour and the water level shall not drop.
 2. There shall be no bubbles escaping from piping and pipe fittings. Any bubbles escaping from piping or pipe fittings shall void the test.
- C. The UST shall undergo the following inspection:
1. The tank shall be pressurized to 3 psi and shall hold the pressure with no drop for one hour.

NOTE: An electrical inspection from the City of Tucson shall be conducted. Only after the electrical inspection has passed, as well as the above inspections, can the UST be put back into service. Within thirty days of inspection a tank tightness test shall be conducted by a certified contractor. The results shall be forwarded to the Tucson Fire Department and all tests shall have a passing grade.