



State of Rhode Island Department of Environmental Management: UST Program

General Requirements for the Repair or Modification of UST Systems and Components

	Repair and Modification Application required				Spill Containment Basin Replacement Form Required		Detailed Site Plan Required		Prior Written Approval from DEM Required		Environmental Consultant Required		Inspection by DEM Prior to Backfill		Soil Screening by Environmental Consultant		Tightness test Piping after Backfilling and Paving (Primary & Interstitial)		Tightness Test UST after Backfilling and Paving (Primary & Interstitial)		3rd Party Testing of Component		Tightness Test of Sump, UDC, or SCB		Tightness Test of Vapor/Vent Lines		Submit "As-Built" Site Plan		Submit Environmental Consultants Report		Submit Results of all Testing		Submit Manufacturers Installation Checklist		Notes					
	Pre-Repair/Modification				During Repair		Testing Requirements				Due prior to operation																													
Replacement of Product piping at existing facility	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
Removal, Repair, or Replacement of Dispenser (above shear valve)																																						If frame is modified, hydrostatic test required		
Repair or Replacement of dispenser Island, mounts, or frame						2		2	2						2												2	2												
Repair of UST	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
Repair of Product Piping	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Replacement of pipe or conduit boots inside sump or UDC															X																									
Replacement of pipe or conduit boots outside sump or UDC	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Repair or Replacement of Vent Piping	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Repair or Replacement Tank Top or Transition Sump	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Installation, Repair or Replacement of Underdispenser containment	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Repair or Replacement of UST Interstitial Liquid Sensors																																								
Repair or Replacement of Sump Liquid Sensors																																								
Repair or Replacement of the ATG or CMS																																								
Repair or Replacement Line Leak Detectors																																								
Repair or Replacement of STP																																								
Repair or Replacement of Shear/Crash Valves	X														X																									
Repair or Replacement of Riser Pipe	1	X	X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X					Prior approval not required if part of a SCB replacement, however must follow SCB rules
Repair, modification, or addition to any cathodic protection system	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			Must be designed, installed, and tested by NACE certified tester
Installation or Modification of Automatic Shutdown Device	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Replacement of Spill Containment Basin (Spill Bucket)		X				3		3						X														3	X											Primary Tank Testing only; SCB Replacement Form Required

1 - If a riser is being replaced or modified independent of a spill containment basin replacement, prior approval and Repair or Modification application is required. However, if it is being replaced or modified as part of a spill containment basin replacement, prior approval and the Repair Modification application is NOT required, however, requirements for SCB replacement must be followed, including submittal of SCB form within 14 days

2 - Requirements will vary with specific work being performed - Call DEM to discuss scope of work to determine requirements

3 - Environmental Consultant required if contamination is observed, if SCB has failed a tightness test, or SCB or riser show evidence of damage

For replacement or installation of USTs, please contact Greg Yekhtikian at (401) 222-2797 for the current requirements

All post-construction or modification testing of sumps and UDCs must be full-level hydrostatic or vacuum. Low-level testing is not allowed as the 1st test.

Repairs or modifications to the vapor system must be reported to the DEM Air Resource Division, and additional requirements or tests may apply

This matrix is intended to be used as guidance only and does not replace or supersede DEM regulations. Additional Federal, State, or Local requirements may apply.
For items not listed, please contact DEM at (401) 222-2797 for installation or repair requirements.