

# THE UST SERVICE TECHNICIAN: WHAT THEY DO, AND HOW THEY DO IT

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TAIT Environmental Services, Inc.



23rd California Unified Program Annual
Training Conference
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# Agenda

- Introduction
- > The Service Technician
- > UST Component Review
- Compliance Testing & Inspections
- Repair & Upgrades
- Safety
- Documentation
- Summary
- > Q&A



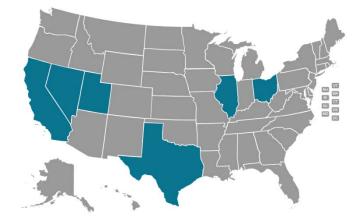
#### Introduction

- > 1964 TAIT & Associates Civil Engineering & Surveying Firm
- > 1980's Regulatory oversite for USTs
- > 1990's Contamination across the U.S.
- Today CA UST program includes tank installations, testing, monitoring, removal, and remediation in CA and nation wide.
- ➤ In addition to being a full service UST/AST contractor, TAIT also provides Engineering, Retail, Entitlements, Surveying, and Architecture services.



#### Introduction

- > ICC Training Courses Available
  - California Designated Operator [UST System Operator]
  - California Service Technician
  - California CUPA Inspector





 Repairs, replaces, and certifies components of PSTs and dispensing equipment.







- Who can be a Service Technician?
  - Any person performing the work of a service technician must meet all of the following requirements:
    - Possess or be employed by a person who possesses one of the following licenses:
      - Class "A" General Engineering, C-10 Electrical, C-34 Pipeline, C-36 Plumbing, or C-61 (D40)
         Limited Specialty Service Station Equipment and Maintenance Contractor License, or
      - Tank testing license issued by SWRCB
    - Be trained and certified by the equipment manufacturer
    - Renew training and certifications issued by the equipment manufacturer every 36 months, or sooner
      if recommended by the manufacturer
    - Possess a current certificate issued by the ICC indicating the individual has passed the California UST Service Technician exam and renew the certification by passing the ICC UST Service Technician Exam every 24 months.



- Civil and Criminal Penalties / Violations
  - Any person who:
    - Falsifies monitoring records
    - Intentionally disables or tampers with automatic leak detection system components
  - Is subject to:
    - \$5,000 to \$10,000 fine
      - -and/or-
    - Up to one year imprisonment in county jail

























#### **UST Component Review**

#### Petroleum Storage Tanks (PST)



Underground Storage Tank (UST)



Aboveground Storage Tank (AST)



## **UST Component Review**

#### Underground Storage Tank:

"any one or combination of tanks, including pipes connected thereto, that is used for the storage of hazardous substances and that is substantially or totally beneath the surface of the ground"

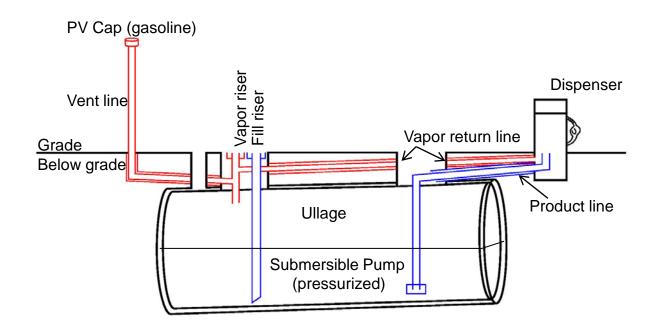
#### The term "UST" excludes:

- Farm Tanks < 1,100 gallons
- Heating Oil Tanks < 1,100 gallons</li>
- Septic Tanks
- Liquefied Asphalt Tanks
- A Sump, Pit, Pond, or Lagoon
- Emergency Generator Tank in Below-Grade Structure





#### **UST Component Review**





- Spill Bucket Test
  - Required every 12 months
  - Verifies 5-gallon capacity
  - Methods
    - Accelerated/lake testing





- Monitoring System Certification
  - Required every 12 months
  - Verifies leak detection equipment is operational





- Overfill PreventionEquipment Inspection
  - Required every 36 months
  - Ability to confirm the overfill prevention equipment is operational









- > Secondary Containment Test
  - Required every 36 months
  - Ensures integrity of secondary containment components:
    - Outer wall of UST
    - Outer wall of piping
    - Containment sumps
    - UDC
  - Exemptions for VPH systems











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- During a test/inspection event, the service technician should also look out for:
  - Microbial growth that could affect the integrity and/or operability of the UST system





- During a test/inspection event, the service technician should also look out for:
  - Corrosion





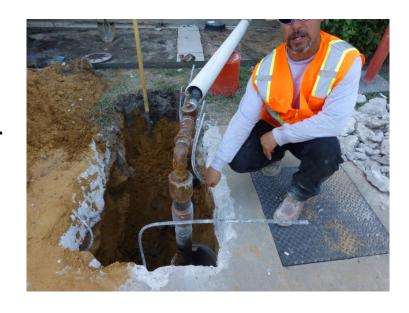
- During a
   test/inspection
   event, the service
   technician should
   also look out for:
  - Damage to the UST
  - Evidence of tampering





# Repair & Upgrades

> Service technicians can make repairs to existing equipment but should also require an ICC UST Installer Certification if concrete must be broken to make the repair(s).





# Repair & Upgrades

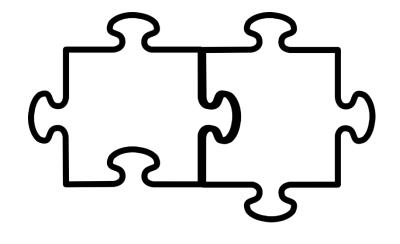
Components that have been repaired must be tested for tightness within 30 days following the completion of the repair(s).





# Repair & Upgrades

Service technicians shall verify that the components being installed/repaired are compatible with the product stored in the tank.





# Safety

Hazardous Waste Operations and Emergency Response

- > PPE
- Confined Space Entry
- > Tool Safety
- Lifting
- > Barricading





#### Documentation

TANK SECONDARY CONTAINMENT TEST

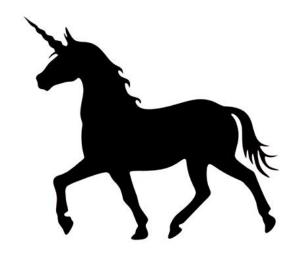
#### Underground Storage Tank Secondary Containment Testing Report Form

Test Method Developed by		Manufacture	r 🗖	Industry Star	ndard 🗌	Profess	ional Engineer
Test Type	☐ Pressure ☐ Vacuum ☐ Hydrostatic				tic		
Test Equipment Used:							
Tank ID							
Tank Manufacturer							
Tank Capacity							
Test Start Time							
Initial Reading							
Test End Time							
Final Reading							
Change in Reading	, C () -						
Pass/Fail Criteria							
Tightness Test Results			1		100		CONTRACTOR OF THE PARTY OF THE
7 PIPE SECONDARY CO					11 1	B 19	
				1			
	4						
							-
The same of the sa					-		
NAME OF TAXABLE PARTY.							Water to the second

5. MONITORING SYSTEM AND PROGRAMMING												
A separate Monitoring System Certification Form must be prepared for each control panel.												
Make of Monitoring System Control Panel	Model of Monitoring System Control Panel	Instal	led									
Attach the post-certification report either;    Monitoring System Set-	Yes	No	NA									
All monitoring equipment is opera												
Secondary containment systems												
Are the audible and visual alarms												
All sensors have been: 1) visually buildup on floats; and 2) tested for												
Are all sensors installed to detect secondary containment?												
The monitoring system set-up wa												
Was the monitoring control panel tested, and confirmed operationa												
Does the flow of fuel stop at the odispenser containment?												
Does the turbine automatically sh monitoring system fails to operate												
Does the turbine automatically sh monitoring system detects a relea (Check all that apply) Sump												
If monitoring system alarms are recommunication equipment operate												



# Summary





# Know any unicorns?

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- Nicole Wray <a href="mailto:nwray@tait.com">nwray@tait.com</a>, 714-560-8655





# Any Questions?

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