

UST Inspector Software

National Tanks Conference

Sept 14, 2022



Inspection Tool Demonstrations

Click below to see each video (Turn up the volume on your PC)

- [Compliance Determination](#)
- [Draw Diagrams](#)
- [Data, GPS, and Disconnected Data Entry](#)
- [Inspection Reports, Files, and Photos](#)
- [Advanced Scheduling](#)

UST Inspector Software Installations

2006 - NH DES



2009 - CT DEEP



2010 - ID DEQ



2011 - VI DPNR

2012 - NC DEQ



2013 - SC DHEC



2014 - RI DEM



2016 – DC DOEE



2019 – LA DEQ



2021 – WV DEP



2022 – Shoshone Bannock Tribe



What's Important

1. The inspector verified compliance with the regulations
2. Facility knows why they are out of compliance
 - Which specific equipment is out of compliance?
 - What does the site need to do to get back in compliance?
3. The facility knows how to stay in compliance

Compliance Report

1. Why is the site I out of compliance?
2. Which specific equipment is out of compliance?
3. What does the site need to do to get in compliance?

Regulation: 280.30(a)

Spill bucket integrity is not maintained

Required Corrective Action:

Conduct a site check according to the guidelines (call 803-898-0589 for directions if needed) and submit sampling results, then repair/replace spill bucket according to industry standards. Then perform a hydrostatic test proving proper installation, and provide documentation of work completed to the Department.

Follow corrective action instructions above for Tank #4(Gasoline RUL)(15000).

Regulation: 280.31(b)(1)

Failure to perform a cathodic protection system test every 3 years on metal piping.

Required Corrective Action:

Remember to test on time. Perform Cathodic Protection test within 3 years of current test for metal piping.

Since the violation was closed on-site(For Tank #4(Gasoline RUL)(15000), Tank #4(Gasoline Super/Prem)(5000), Tank #5(Diesel fuel)(5000), Tank #5(Gasoline Racing fuel)(5000), Tank #5(Gasoline)(5000), Tank #5(Kerosene)(5000)), no action or response is required.

How do I stay in compliance

Responsibility

Cathodic Protection System Test (3 years)

Tank Release Detection Operability Test (annual)

Piping Release Detection Operability Test (annual)

Line Leak Detector Function Check (annual)

Line Tightness Test (annual pressurized)

Line Tightness Test (3 year suction)

Piping Sump Sensor Function Check (annual)

Dispenser Sump Sensor Function Check (annual)

Spill Protection Tightness Test (3 years)

Overfill Prevention Operation Test (3 years)

Piping Sump Tightness Test (3 years)

Dispenser Sump Tightness Test (3 years)

Financial Responsibility Expiration

Walkthrough Inspection (annual)

Due Date

8/29/2025

4/1/2023

4/1/2023

4/1/2023

Not Required

Not Required

4/1/2023

4/1/2023

3/25/2023

1/22/2024

3/25/2023

5/26/2020(Past Due)

Expired

12/9/2022

How do I stay in compliance

TO DETECT LEAKS						
Tank # /Pipe #	Equipment Method or Item	Required Duties	Deadlines	Record Keeping	Recommendations: Best Management Practices	Response to Problems
T(1) T(2) T(4)	Double-Walled Tank with Continuous Monitoring (Continuous Interstitial with Sensor)	Prove that the space between the inner and outer tank wall does not have fuel or water in it. Once per month get a printout from the console that shows sensors functioning "normal" for each tank. If no printer, maintain a written monthly record for the last 12 months. Inspect and functionally test the console and sensors every year.	Every 30 days for leak detection. Monthly Walkthrough Inspection. Once per year for equipment functionality test (The first annual functionality test of release detection equipment, consoles, probes, and sensors must be completed by Oct 13, 2021 and annually thereafter.).	Keep the last 12 months of leak detection tests. Keep copies of third-party certification for console and sensors. Keep copies of all functionality tests, repairs, and maintenance work done on the console and sensors.	Keep the paper roll full. Check daily for alarms.	Promptly investigate any alarms or liquid in a dry interstitial space. You may need to contact a petroleum service provider for assistance. Repair or replace any failing components. Call DEQ within 24 hours if liquid is suspected in a dry interstice. Have the liquid removed by a service provider.
P(4)	Mechanical Line Leak Detector (3 gph Leak Detection)	Get a qualified professional to perform a functionality test on the line leak detector once a year. Replace device if it is not functioning.	Once a year	Save a copy of the tester's last report. Save a copy of the third-party certification document.	Look in the tank sump monthly for leaks.	Suspect a release if the pump flow is routinely restricted (not due to clogged filters). You may need to contact a petroleum service provider for assistance. Call DEQ within 24 hours if a release is

Features

1. Determine compliance and EPA measures
2. Generate enforcement letters in the field
3. Provide facility with a schedule of future test dates
4. Capture signatures, on-site photos, and scans documents.
5. Collect GPS coordinates.
6. Display interactive site diagram
7. Train and test A/B operators

Optimized Data Entry

Leak Detection



COMMENT



SAVE

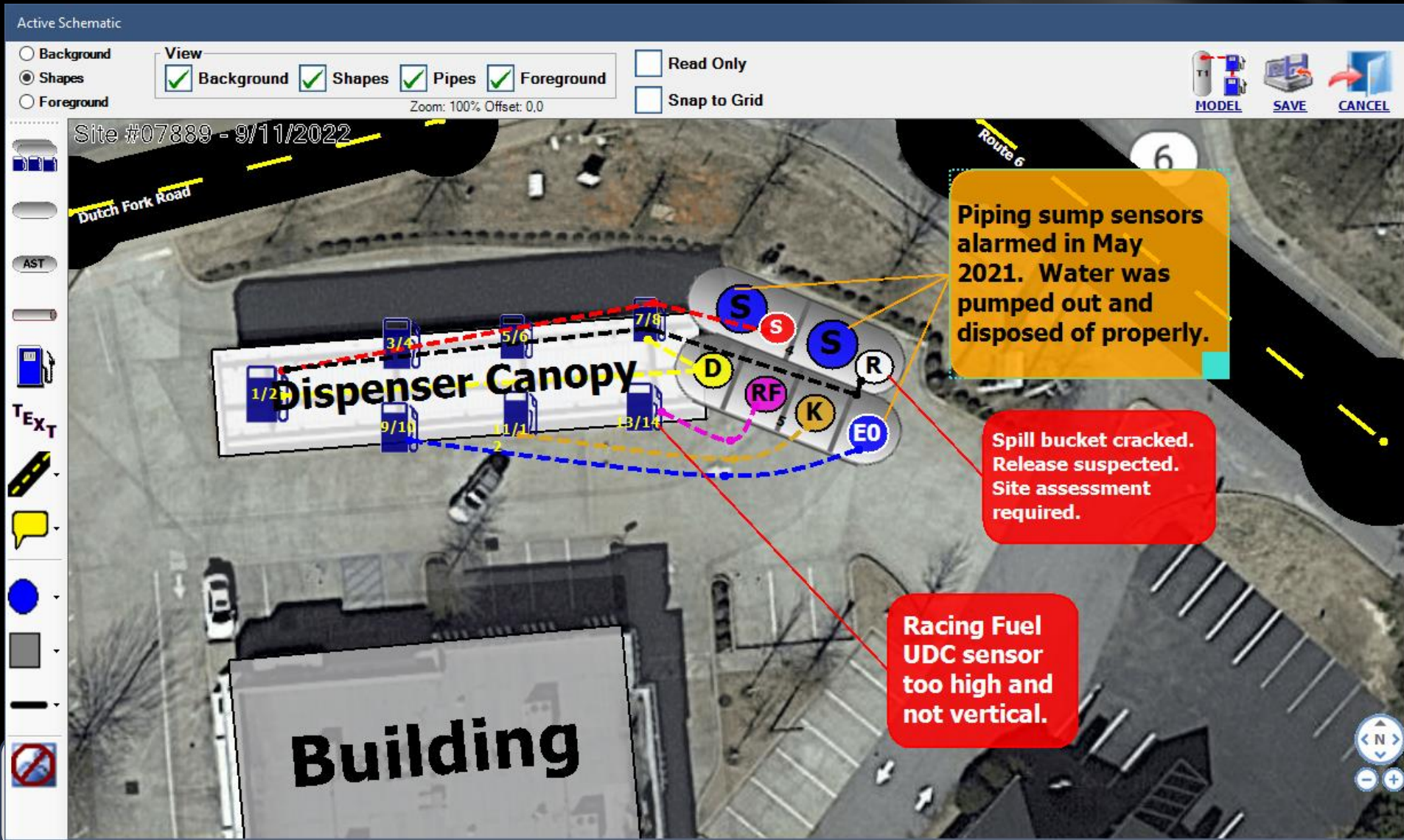


CANCEL

Tanks/Compartments	Piping Big Leak	Piping Little Leak	Piping Sumps	Dispensers
◀◀	Dispenser #1(1/2)	Dispenser #2(3/4)	Dispenser #3(5/6)	Dispenser #4(7/8)
Release Detection				
Sump requirements	Sump Monitoring	Sump Monitoring	Sump Monitoring	Sump Monitoring
Is a dispenser containment sump present?	Yes	Yes	Yes	Yes
Sump construction material	Plastic	Plastic	Plastic	Plastic
Is the containment sump monitored?	Yes	Yes	Yes	Yes
System / Monitoring Type	Open System / Sump Sensors	Open System / Sump Sensors	Open System / Sump Sensors	Open System / Sump Sensors
Monthly Monitoring	Monthly Monitoring	Monthly Monitoring	Monthly Monitoring	Monthly Monitoring
Sensor positioned at the bottom of the sump?	Yes	Yes	Yes	Yes
Is the interstice properly closed but continuous?				
Is the interstice open with no obstructions?	Yes	Yes	Yes	Yes
Release Detection Operability Testing				
Previous sump sensor function check date	4/5/2021	4/5/2021	4/5/2021	4/5/2021
Current sump sensor function check	4/1/2022	4/1/2022	4/1/2022	4/1/2022

- Copy Across
- Copy To
- Copy Column Across
- Copy Column To
- Copy to Clipboard
- Paste from Clipboard

Electronic Site Diagram



Advanced Scheduling

South Carolina UST Inspector

LEGEND
 In Compliance
 Out of Compliance
 Incomplete

DAN BLAKE

Scheduled Inspections

(Click Date, Id, Site, or City/Town column to sort)
 [Find Facility/Schedule Inspection...](#)

	Date	Permit #	Site	City/Town	Type	L
	09/09/22 07:45	00157	Circle K 2723246	AIKEN	Compliance	8
	09/09/22 11:00	00275	Aiken County School Bus Sh...	AIKEN	Compliance	6
	09/09/22 02:45	11052	Garden Spot	EASLEY	Compliance	5
	09/09/22 02:55	07889	Pitt Stop 14	BALLENTINE	Compliance	1
	09/13/22 03:05	10568	Spinx 2	GEBURG	Compliance	1
	09/15/22 11:25	03872	Greenv	NVILLE	Closure	1
	09/16/22 11:30	09242	Duke E		Outreach	1

Fac#07889 Address: 1301 DUTCH FORK RD, BA
 (county) Phone: 803-732-5979

Start Inspection...

Reschedule...

Delete...

Distance/Directions...

View Summary...

Contacts

Type	Name	Phone	Address
Land Owner	GTY-SC LEASING L...	202-358-3619	TWO JERICO PLAZA...
Operator	PETROGAS GROU...	803-957-7367	279 CEDARCREST DR,...
Tank Owner	PETROGAS GROU...	803-957-7367	279 CEDARCREST DR,...
Class B Operator	ALEXIS LYNN	803-741-8445	
Class B Operator	ALICE SMITH	803-957-7367	279 CEDARCREST DR,...

Healthy People. Healthy Communities.

SYNCHRONIZE

Benefits

1. More inspections per inspector
2. Standardized and even-handed enforcement of regulations
3. Improved data quality
4. Consistent and complete inspection reports and violation notices
5. Instructions for the facility owner how to come back into and stay in compliance

Violation Manager Demonstration

Click link above to see the video (Turn up the volume on your PC)

Violation Name

Late cathodic protection system test (required every 3 years) for metal piping.

Regulation

280.31(b)(1) ▼

SOC Measure

Corrosion Protection ▼

Start Date

9/23/2013



Date Inactivated



Reason Inactivated

Violation Description

Failure to perform a cathodic protection system test every 3 years on metal piping.

Corrective Action

Remember to test on time. Perform Cathodic Protection test within 3 years of current test for metal piping.

☐ Prohibit Deliveries

Rule Specification

Screen

CP Pipes ▼

Applies To

compartment ▼

Inspection Type

Compliance Inspection ▼

Condition

(compartment.IsPipingCPTTestRequired) AND
(compartment.LastPipingCPTTest>=inspection.SCHEDULED_TIME.AddYears(-3) OR
compartment.PreviousPipingCPTTest>=inspection.SCHEDULED_TIME.AddYears(-3))
AND Not help.IsBlank(compartment.PreviousPipingCPTTest) AND
(compartment.LastPipingCPTTest>compartment.PreviousPipingCPTTest.AddYears(3))

Tank Status

BLANK ▼

Leak Detection

BLANK ▼

Installed After



Installed Before



Scheduler Demonstration

Click link above to see the video (Turn up the volume on your PC)

Inspector: ALL

Inspection Type: ALL

Event Type: ALL



today

September 2022

month

week

day

Mon	Tue	Wed	Thu	Fri
29	30	31	1	2
9:00 AM 85201 Compliance Steve Luman Anthony Young	9:00 AM 135143 Compliance Steve Luman AAFES Mini Mall	9:00 AM 73940 Compliance Steve Luman De Ridder U Pack	9:00 AM 75667 Compliance Steve Luman Food Mart	8:00 AM 70198 Compliance Steve Luman The Buzz
10:00 AM 74097 Compliance Steve Luman E&N Quick Stop	10:00 AM 15707 Compliance Ryan Brignac Lard Oil Co Inc of Acadiana...	10:00 AM 70757 Compliance Steve Luman Sunshine Grocery #8	10:00 AM 77237 Compliance Charles Branton Buddy's Service Station	9:00 AM 68909 Compliance Steve Luman Cajun Station
10:00 AM 88885 Compliance Lauren Cramer MEX #3322	10:00 AM 75616 Compliance Ryan Brignac Deshi LLC	12:00 PM 75293 Compliance Steve Luman Food Max	10:00 AM 70802 Compliance Steve Luman Cajun Kwik Mart	11:00 AM 73731 Compliance Steve Luman Shop Rite #83
11:00 AM 72837 Compliance Steve Luman Anacoco Mercantile LLC	10:00 AM 135141 Compliance Steve Luman AAFES Shoppette 1	1:00 PM 214295 Compliance Steve Luman Cursanjh Properties LLC - T...	10:00 AM 70485 Compliance Ryan Brignac Pop-N-Fuel	12:00 PM 74559 Compliance Steve Luman Hit-n-Run Food Stores #11
11:00 AM 91002 Compliance Theresa LoGiudice Brown Derby Superstore Inc	11:00 AM 72657 Compliance Jane Ramey Mountain Express Store #929	1:00 PM 70979 Compliance Lauren Goldfinch Causeway Discount Zone	10:00 AM 75930 Compliance Theresa LoGiudice Estates Shell	1:00 PM 200893 Compliance Steve Luman Love's Travel Stop #663
12:00 PM 72827 Compliance Steve Luman Shop A Lott #7	11:00 AM 78549 Compliance Steve Luman Peterson Shell Station	3:00 PM 5598 Compliance Steve Luman LADOTD - District 07	10:00 AM 70487 Compliance Ryan Brignac Iberia Food Mart	
1:00 PM 15730 Compliance Lauren Goldfinch Edenborn Shell Service Station	12:00 PM 74671 Compliance Steve Luman LADOTD - Deridder Maintenan...		10:00 AM 70790 Compliance Charles Branton Time Loop #19	
1:00 PM 79047 Compliance Steve Luman Shop Rite #50	1:00 PM 79331 Compliance Steve Luman Brookshire Brothers #27		11:00 AM 192136 Compliance Steve Luman Spring Market 704	
3:00 PM 72590 Compliance Steve Luman Fina Mini Serve	2:30 PM 78509 Compliance Jane Ramey Gilcrease General Store		12:00 PM 216534 Compliance Steve Luman Podna's Quik Mart LLC	
	3:00 PM 70758 Compliance Steve Luman 26 Express			

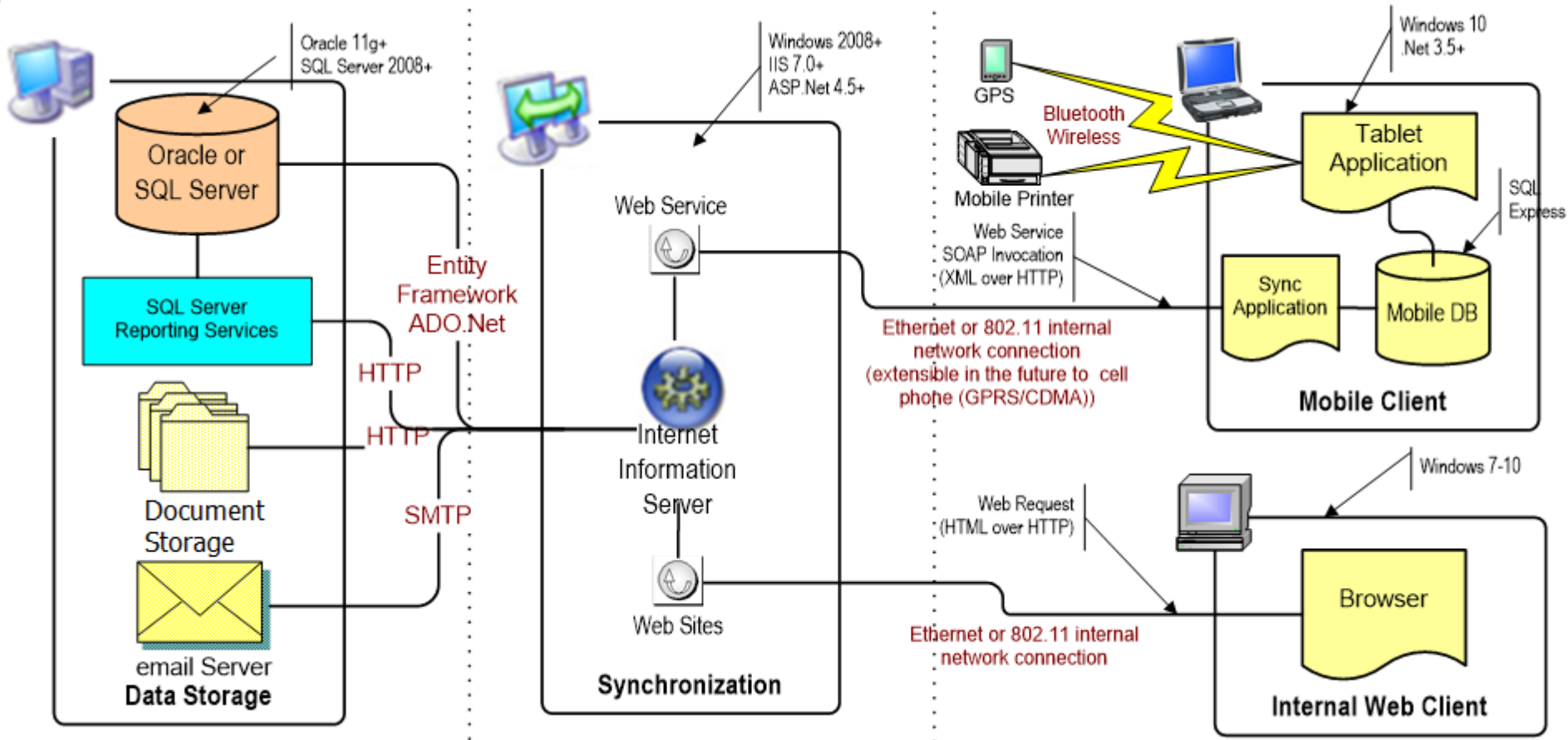
Violation Manager Benefits

1. Library of current regulations (federal and/or state specific)
2. Standardized violation and corrective action descriptions
3. Enforcement tracking

Other software

- AST /UST Registration
- Enforcement Tracking
- UST On-line training and testing
- UST management plans
- Other Inspection Types
 - UST – Install and closure
 - LUST - Site visits
 - AST – Compliance

System Architecture



Tasks to Implement

- Import regulations
- Business and systems analysis
- Network integration
- Download of registration data
- Customization of inspection and web applications
- Additions to support state regs and SOPs
- Upload of inspection results, documents, and registration changes
- Enforcement tracking website

Questions?

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