

**NJDEP Hazardous Waste/UST
Compliance & Enforcement**

*Underground Storage
Tank Inspection
Program*

Bureau of hazardous Waste and UST Enforcement
Michael R. Hastry 609-943-4989, Cell #609-439-9646
Krista M. Frey 609-943-3019, Fax#: 609-292-3970
Mail Code 09-03, PO Box 420
Trenton, NJ 08625-0420

**HAZARDOUS WASTE COMPLIANCE
AND ENFORCEMENT**

Name	Desk #	Cell #
Bergen, Essex, Hudson, Hunterdon, Morris, Passaic, Somerset, Sussex and Warren Counties <i>Fax: 973-631-6331 Phone: 973-656-4470</i>		
Sterling, Jeff (Northern)	973-656-4498	609-802-3064
Allyene-Piggot, Joan	973-656-4470	N/A
Dotterweich, John	973-656-4449	609-439-9726
Erickson, Maria	973-656-4449	609-977-4490
Hanley-Tagliaferri, Paula	973-631-6293	609-439-9638
Kent, Maria	973-631-6325	609-439-9645
Sanchez, Martin	973-631-6325	609-439-9649
Strochak, Liz	973-656-4456	609-439-9422
Szardenings, Stephen	973-631-6325	609-439-9650
Mercer, Middlesex, Monmouth, Ocean and Union Counties <i>Fax: 609-292-3970 Phone: 609-943-3019</i>		
Mirabella, Joe (Central)	609-292-3962	609-273-4970
Baier, Nicholas	609-292-3917	609-358-2067
Chiles, Tiffany	609-292-3917	609-439-6405
Cosgrove, Susan	609-292-3917	609-439-9757
King, Paul	609-292-3917	609-439-9728

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester and Salem Counties <i>Fax: 856-614-3608 Phone: 856-614-3658</i>		
Salabritas, Jeff (Southern)	856-614-3650	609-439-9739
Carmen, Carol	856-614-3663	609-306-3601
Santos, Carlos	856-614-3648	N/A
Scaffidi, Amy	856-614-3663	609-439-9651
Veit, Brian	856-614-3663	609-802-8676

**UNDERGROUND STORAGE TANKS
(UST)**

Name	Desk #	Cell #
<i>Fax: 609-292-3970</i>		
Olko, John		609-851-7989
Brooks, Auradis	973-656-4415	609-462-5649
DeAppolonio, Paul	973-451-5620	609-468-3048
Marlowe, Kevin	973-656-4415	609-439-9589
Norville, Lorraine	609-292-6051	609-477-4263
Provost-DiNuzzo, Jenna	973-656-4415	609-672-1309
Stavash, John	973-656-4415	609-439-9602
Lenik, Jennifer (S)	856-614-3615	609-672-1802
Lenoir, Kristina (S)	856-614-3615	609-221-3306
Hollis, Michael	609-292-6051	609-477-0945
Pierson, Janelle	609-292-6051	609-672-1327
Silcox, Sonya	609-292-6051	609-209-1799
Davis, Gregory	609-292-6051	609-439-9414
UST CEHA		
Hollis, Michael	609-292-6051	609-477-0945

Address for HW/UST offices:

Northern
7 Ridgedale Ave, Cedar Knolls, NJ 07927

Central
9 Ewing St, Mail Code 09-03, PO 420, Trenton, NJ 08625-0420

Southern
2 Riverside Dr, Suite 201, Camden, NJ 08102

**MANIFEST/BIENNIAL
REPORTING/REGISTRATION
MEDICAL WASTE**

Name	Desk #
Reburn, Bret	609-292-3949
Buffin, Pat	609-984-2155
Davis, Carla	609-984-2142
Mullen, Becky	609-984-2162
Vincent, Gale	609-984-6596
White, Mindy	609-984-2138

**SPECIAL INVESTIGATION &
SUPPORT SERVICE**

*(Shared service with Solid Waste Enforcement)

Name	Desk #	Cell #
Barry, John	609-777-2445	609-577-2845
Fasanella, Krista	609-292-6305	N/A
Lawson, Mary	609-292-4313	N/A
Marue, Sharon	609-341-5443	N/A
Harkins, Bob	609-777-2953	609-273-3734
Gomez, Bob (TOU)	609-292-3837	609-439-9397
Farrar, Chris	609-943-3018	609-439-8217
Feehan, Ron	609-292-3853	609-439-9657
Kosierowski, Mike	609-292-3602	609-439-9640
Lewis, Lawrence	609-943-3018	609-209-1762
Licensing & Registration - Main # 609-292-7081		
Bonfonti, Paula	609-292-3532	N/A
Cox, David	609-292-3522	N/A
Marine, Rhonda	609-292-2699	N/A

OLA Fax #984-3488
SW Duty Officer 292-4910
EPA RCRA 292-2913



UST Goals

- Protect human health and environment
- Ensure sound UST system management
- Protect groundwater resources
- Prevent, control, remediate, and abate leaking UST systems

Why Care about USTs?

- Can threaten _____ and thus drinking water systems.
- Can be a threat to human health.
- New and _____ systems can still fail.
- Ownership is shifting back to Mom and Pops. More operators = more potential _____.
- New releases persist today.

Why Care about USTs?

- Can threaten Groundwater and thus drinking water systems.
- Can be a threat to human health.
- New and Upgraded systems can still fail.
- Ownership is shifting back to Independent operators = more potential Problems?
- New releases persist today.

Regulated USTs

- All tanks 10 % or more buried containing hazardous substances.
- Hazardous Substance means Motor Fuel, waste oil, others.
- Except:
 - ∞ Residential Heating Oil tanks of any size,
 - ∞ Non-residential heating oil tanks 2,000 gallons or less,
 - ∞ Farm/residential tanks 1,100 gallons or less
 - ∞ Others



Inspection Frequency

- Once every 3 years - Minimum

UST Inspection

- Registration
- Insurance
- Release Detection Monitoring
- Cathodic Protection
- Spill Prevention
- Overfill Prevention
- Air Permitting/Compliance





AT BDX 828
TRENTON, NEW JERSEY 08625-0928
Phone: (609) 633-1464

UNDERGROUND STORAGE TANK SYSTEMS
REGISTRATION CERTIFICATE

The Department of Environmental Protection hereby grants this registration to operate and maintain the Underground Storage Tank System(s) described below in accordance with the laws and regulations of the State of New Jersey. This registration is revocable with due cause and is subject to the limitations, terms and conditions pursuant to N.J.A.C. 7:14B.

Facility ID:	012395	Facility Contact (Operator):	Bipin Patel (908)647-2674	Approval Date:	06/09/2010
Registration Activity ID:	UST100002	Owner:	CHERYL ANDERSON Kimber Petroleum Corp 1425 MOUNTAIN DR N - C/O LEHIGH GAS CORP BETHLEHEM, PA 18015	Expiration Date:	09/30/2012
Facility Address:	MT BETHEL EXXON 171 Mt Bethel Rd WARREN TWP, NJ 07060	Total Number of Tanks:	3	Total Capacity (Gallons):	24000

Approved Tanks and Products Stored:

TANK No.	TANK CAPACITY	TANK CONTENTS
1	8000	Unleaded Gasoline
2	8000	Unleaded Gasoline
3	8000	Unleaded Gasoline

CROMPCO
CORROSION PREVENTION CONSULTANTS
1815 Gallagher Road | Plymouth Meeting, Pa 19042



DIVISION OF REMEDIATION SUPPORT
 UNDERGROUND STORAGE TANK PROGRAM
 P.O. BOX 028
 TRENTON, NEW JERSEY 08625-0028
 Phone: (609) 633-1464



**UNDERGROUND STORAGE TANK SYSTEMS
 REGISTRATION CERTIFICATE**

<p>The Department of Environmental Protection hereby grants this registration to operate and maintain the Underground Storage Tank System(s) described below in accordance with the laws and regulations of the State of New Jersey. This registration is revocable with due cause and is subject to the limitations, terms and conditions pursuant to N.J.A.C. 7:14B.</p>		<p>Approval Date: 01/24/2008</p> <p>Expiration Date: 12/31/2010</p>												
<p>Facility ID: 012345</p> <p>Registration Activity ID: UST070001</p>	<p>Facility Contact (Operator): Joseph Smith (201) 555-1234</p>	<p>Total Number of Tanks: 3</p> <p>Total Capacity (Gallons): 26000</p>												
<p>Facility Address: JOE'S GARAGE 444 MAIN ST ANYWHERE, NJ 02854</p>		<p>Owner: JOSEPH SMITH 444 MAIN ST ANYWHERE NJ, 02854</p>												
<p>Approved Tanks and Products Stored:</p> <table border="1"> <thead> <tr> <th>TANK No.</th> <th>TANK CAPACITY</th> <th>TANK CONTENTS</th> </tr> </thead> <tbody> <tr> <td>5175</td> <td>8000</td> <td>Unleaded Gasoline</td> </tr> <tr> <td>5176</td> <td>8000</td> <td>Light Diesel Fuel (No. 1-D)</td> </tr> <tr> <td>5177</td> <td>10000</td> <td>Unleaded Gasoline</td> </tr> </tbody> </table>			TANK No.	TANK CAPACITY	TANK CONTENTS	5175	8000	Unleaded Gasoline	5176	8000	Light Diesel Fuel (No. 1-D)	5177	10000	Unleaded Gasoline
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5175	8000	Unleaded Gasoline												
5176	8000	Light Diesel Fuel (No. 1-D)												
5177	10000	Unleaded Gasoline												
<p>This Registration Must Be Available for Inspection at the Facility AT ALL TIMES</p>														



- ◆ Facility must have a Current and Accurate Registration



UNDERGROUND STORAGE TANK FACILITY CERTIFICATION QUESTIONNAIRE

FACILITY UST # (PROGRAM INTEREST ID): _____

Completion of this Registration Questionnaire will satisfy the registration requirements of the Underground Storage of Hazardous Substances Act, N.J.S.A. 58:10A-21 et seq., and the Underground Storage Tank Rules N.J.A.C. 7:14B et. seq.

Check appropriate box

- A. This is a registration of a proposed or newly installed underground storage tank. (This form must be filed at least 30 days prior to operation)
- B. This is a registration of an existing underground storage tank not presently registered.
- C. This is a correction or amendment to an existing facility registration. (Check type of change below)
- D. There have been no changes to the facility registration since last submittal. (Complete Section A, C & E)

If "C" is checked above, please check the appropriate type of change(s) below

- | | | |
|--|--|---|
| <input type="checkbox"/> Facility Name and/or Address Change | <input type="checkbox"/> Type of Product(s) Stored | <input type="checkbox"/> Financial Responsibility Change (Including Policy Renewal) |
| <input type="checkbox"/> Owner Name and/or Address Change | <input type="checkbox"/> Substantial Modification(s) (see 14B) | <input type="checkbox"/> Sale or Transfer (Complete entire form) |
| <input type="checkbox"/> Facility Operator and/or Address Change | <input type="checkbox"/> Tank(s) and/or Piping Changes | <input type="checkbox"/> Other (please specify) |
| <input type="checkbox"/> Owner Contact Person Change | <input type="checkbox"/> Closure (Complete Section B | |
- Questions 1, 4, 5, 12C)

SECTION A - GENERAL FACILITY INFORMATION

1. Facility Name _____

2. Facility Location _____

Address Line 1 _____

Address Line 2 _____

City or Municipality _____

_____	[N J]	_____ - _____	_____	_____
COUNTY	STATE	ZIP CODE	BLOCK	LOT

3. Facility Operator _____
ORGANIZATION (If applicable, e.g. Company) or INDIVIDUAL

Contact Person _____
PERSON TITLE

PHONE NUMBER (INCLUDE AREA CODE & EXT) _____ E-MAIL ADDRESS _____

Operator Address (if different than #2) _____
ADDRESS LINE 1 (NUMBER AND STREET)

ADDRESS LINE 2 (e.g. PO BOX, SUITE) _____

CITY OR MUNICIPALITY STATE ZIP CODE

4. Tank Owner (Organization) _____

Contact Person _____
PERSON TITLE

PHONE NUMBER (INCLUDE AREA CODE & EXT) _____ E-MAIL ADDRESS _____

Tank Owner Address _____
ADDRESS LINE 1 (NUMBER AND STREET)

ADDRESS LINE 2 (e.g. PO BOX, SUITE) _____

CITY OR MUNICIPALITY STATE ZIP CODE

2/ TANK INSURANCE (FA)

All REGULATED TANKS must have insurance for “the purpose of remediation and for compensating third parties for bodily injury and property damage”.

Coverage Amounts:

< 10,000 gallons throughput per month: \$250,000

> 10,000 gallons throughput per month: \$1,000,000

Hazardous substances other than motor fuel: \$1,000,000



- ◆ Facility must have a Current and Accurate Insurance Policy

Release Detection Monitoring (tanks)

The background is a solid teal color. At the bottom right, there is a silhouette of a mountain range with several peaks of varying heights, rendered in a slightly darker shade of teal.



Summary of Options

Common

- ◆ Automatic Tank Gauging
- ◆ Interstitial Monitoring

Less Common

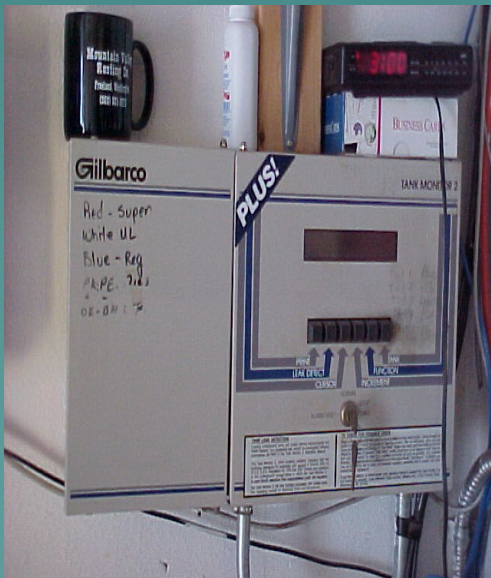
- ◆ Inventory Control and Tightness Testing
- ◆ Statistical Inventory Reconciliation

Uncommon

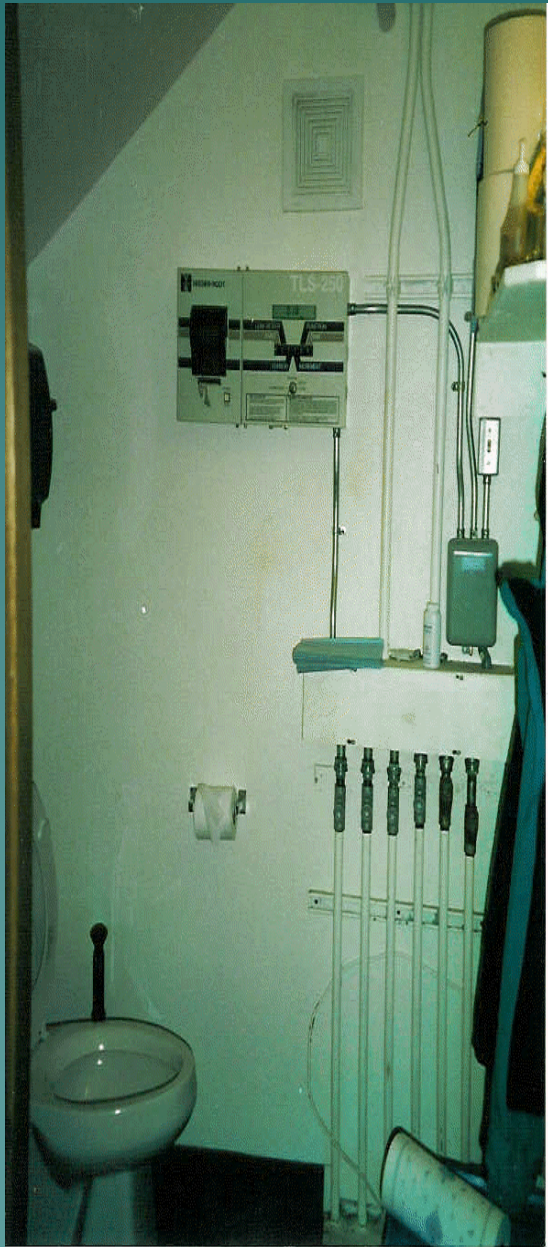
- ◆ Manual Tank Gauging
- ◆ Soil Vapor Monitoring
- ◆ Groundwater Monitoring



Automatic Tank Gauging



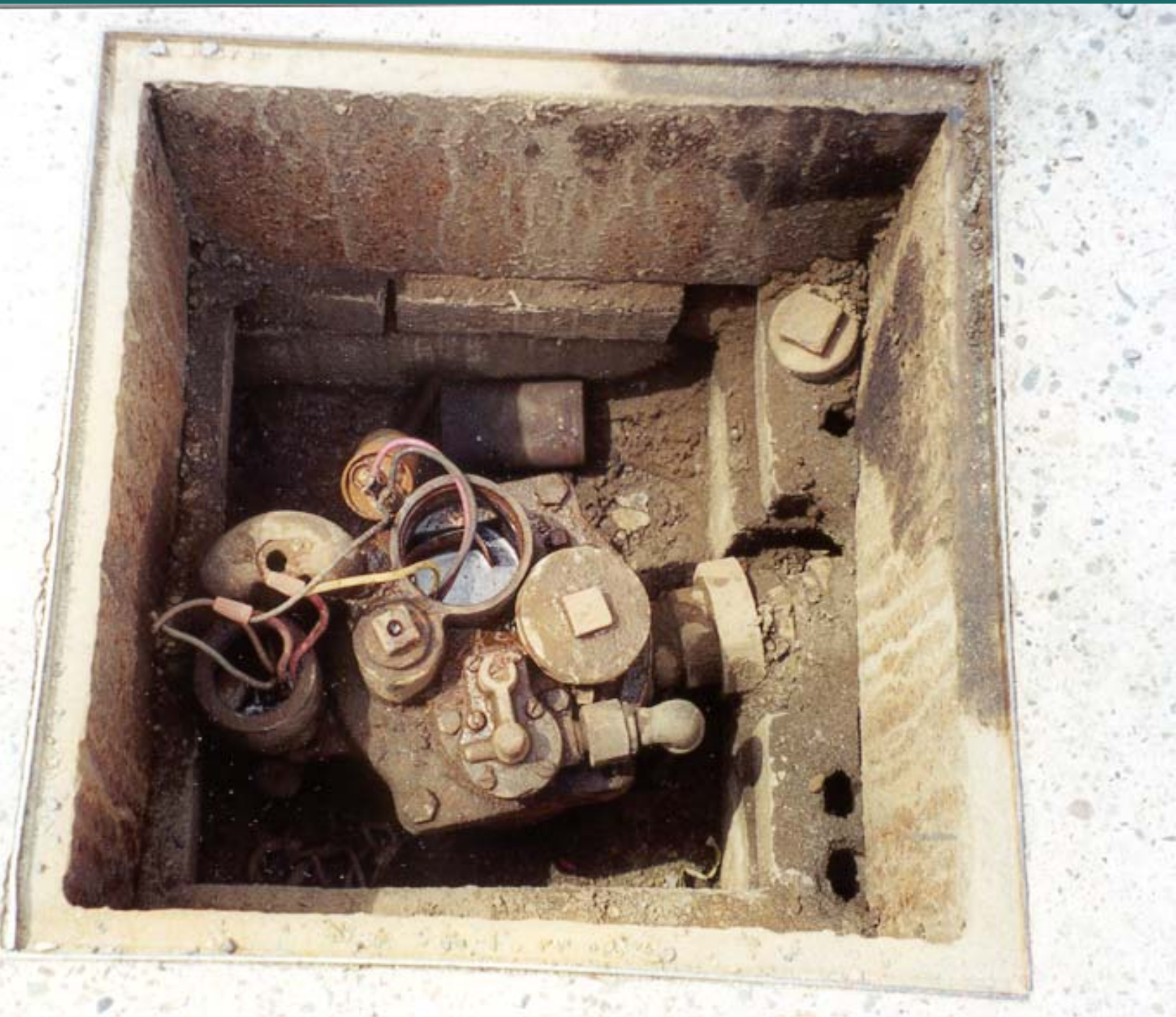
Find the Tank Gauge













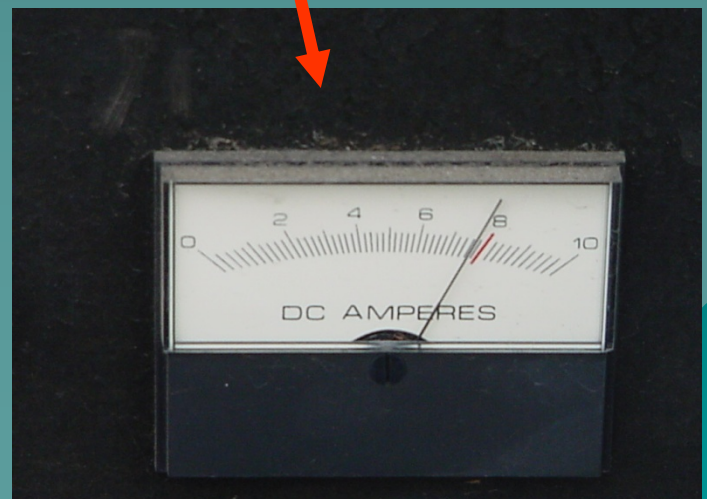
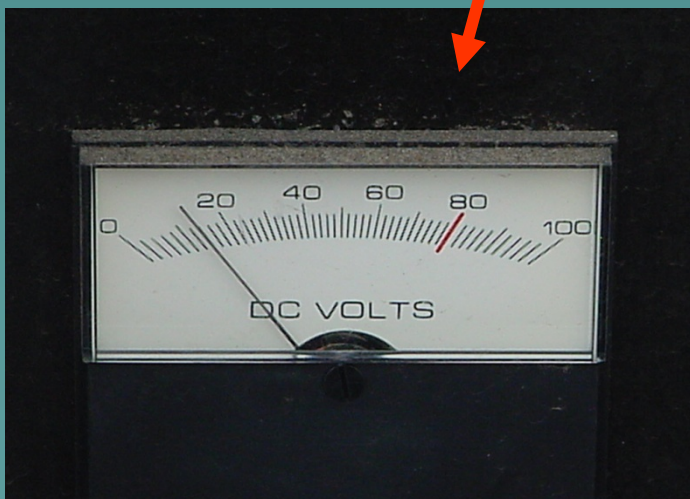
It Ain't Kool-Aid!



An **sti-P₃** tank (sti = Steel Tank Institute). All sti-P₃ tanks of 10,000 gallons or less are shipped with anodes (1) attached to each end. The anodes, in part, protect the tank from corrosion. In addition, the 2-inch riser (2) indicates that this UST is double-wall and the riser is connected to the interstitial space. The riser provides an access point for monitoring of the interstitial space by either electronic sensors or by manual checks. Not as apparent are the two additional methods of corrosion protection which are the outer coating and the dielectric bushings (3) where the system piping will be connected to the UST. When the UST is installed, a cathodic protection test port (PP4) with a test wire should be installed at ground surface to be able to conduct a corrosion test of the UST every 3 years. See definitions: *dielectric, sti-P₃, interstitial, PP4 test port.*



This rectifier contains both an ammeter and voltmeter. To verify that the rectifier panel is on, these gauges should have values above zero. The readings do not tell you that the system is protecting the tanks and lines, it only indicates that the unit is operating. See *definitions: impressed system, corrosion and rectifier*.

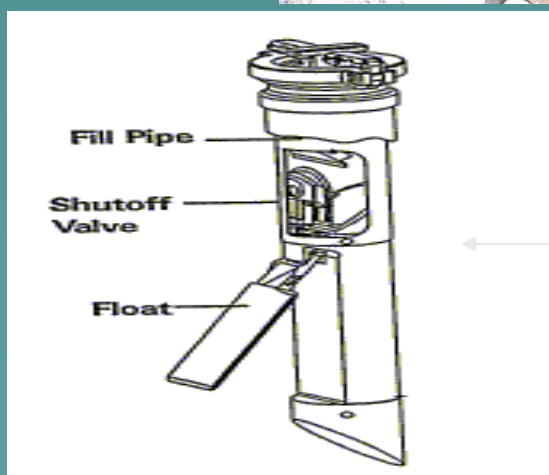
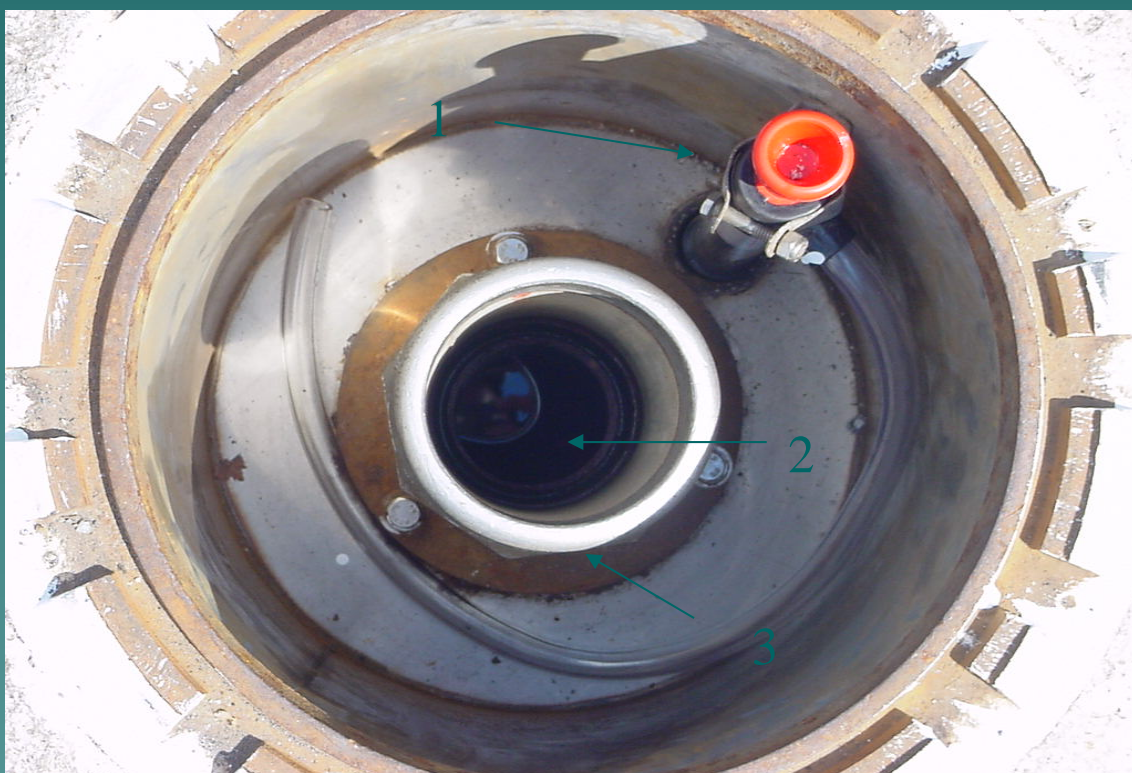






- ◆ Corrosion Protection
- ◆ $> .850$ Passing test results
- ◆ Required Test 1 X 3 years

A product tight spill bucket. A manual pump (1) is used to pump water or product out of the spill bucket. An in-tank float (2) is present in the drop tube (3). The float (2) closes the drop tube when the tank is filled to 95% of its capacity. Item (4) is a diagram and photograph of the in-tank float valve contained within the drop tube. **Inspection Significance:** This UST is equipped with the required spill prevention (spill bucket) and has a method of overfill prevention (float valve). See definitions: spill bucket, overfill protection.







- ◆ Spill Prevention
- ◆ Clean and Dry – No Liquid
- ◆ Inspect for **HOLE**S

This unit, which should be located outside the building and near the tank field, contains a red light (1) and a horn (2). The unit is connected to the ATG panel and should give a visual and audible warning when the UST is filled to 95% of its capacity. The bell (3) in the inset photograph is another form of an alarm that can be used for overfill compliance. **Inspection significance:** An alarm must be located in view or hearing of the delivery driver to serve as a warning to prevent overfill of the UST. If this is the method that the owner or operator is using for overfill protection, it must be located within view of the driver. If it is not within sight or hearing of the tank field, the owner or operator should be cited for a lack of overfill protection. See definitions: ATG and overfill prevention



This is a coaxial drop tube that also includes a method of overfill protection as well as being one of two methods of Stage I vapor recovery. The inner pipe (1) conducts fuel from the tanker to the UST. The vapors return to the truck through the space between the inner and outer pipe (2). The warning labels (3) indicate that the coaxial is made by OPW and also contains an in-tank float valve that prevents overfilling the tank. Item (4) is a photograph of the in tank float valve contained within the drop tube.

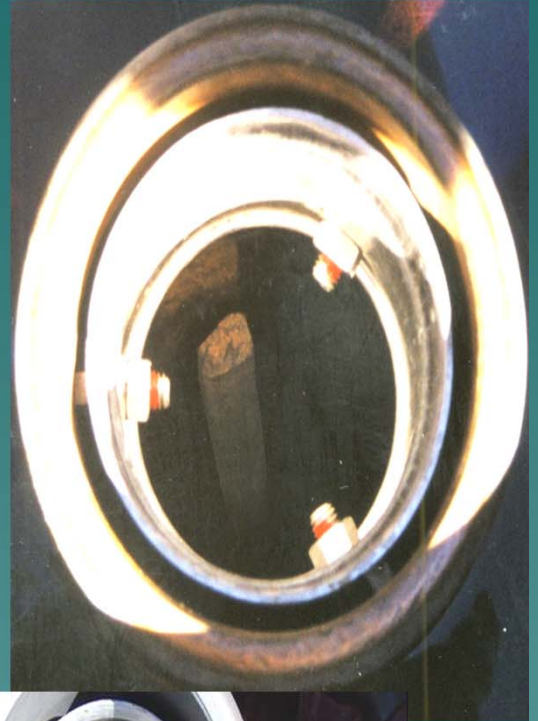
Inspection Significance: Verify the presence of the float valve by looking down the drop tube with an intrinsically safe flashlight. The presence of the coaxial drop tube and the warning label do not guarantee that an in-tank float (overfill protection) is present. If no float is present, verify what method of overfill is used for the UST. See definitions: Stage I, co-axial and overfill protection.





Flow-Restrictor Bypass. Bad

- ◆ Never store stick in the drop tube.
- ◆ Can cause an overflow.
- ◆ Can damage overflow device



Overfill ball float commonly referred to as a 90% flow restrictor. This device is located in the UST and is connected to the vent line which is located just above the top of the UST. As product is introduced into the UST and it reaches the ball (1) at the bottom of the device, the ball floats on top of the product. When the ball reaches the end of the sub (2), it restricts the air flow out of the UST through the vent line. At this point, the UST is 90% full. This restriction causes a significant slowdown of product delivery into the UST signaling to the delivery person to shut off the valves on the delivery truck to avoid an overfill. Because the UST is only 90% full, this allows the product remaining in the delivery hose to drain into the UST without overflowing the tank. The cap (3) is typically what is seen under a small cover at the tank field for this type of overfill protection. **Inspection Significance: This type of overfill protection should not be used for suction systems, systems with remote fills or systems that receive deliveries under pressure. Since the ball and sub are located within the tank, the cap (3) must be located along the center line of the tank to indicate the presence of a 90% flow restrictor. See definitions: Overfill prevention.**





- ◆ Overfill Prevention
- ◆ Present and Functional

Prevention Starts Before Delivery

- ◆ Owner/operator shall ensure:
 - There is enough room in tank before delivery.
 - The **Entire** transfer is monitored.
 - No **Spills** due to overfills.



Monthly Containment Device Inspection Log

- ◆ Containment Sumps - Turbine Pumps
- ◆ Piping Sumps
- ◆ Should be **Clean and Dry**

Monthly Dispenser Pan Inspection Log

- ◆ Containment pan located under the Dispenser
- ◆ Should be **Clean and Dry**
- ◆ Is it Water or Fuel?

Release Response Plan

(a) The owner or operator shall prepare, and update as necessary to reflect changes to the facility and to regulations governing response plans, a release response plan which includes the following information:

1. The emergency telephone numbers of the local fire department, local health department, Department of Environmental Protection Hotline 1-877 WARN DEP or 1-877- 927-6337, and any other appropriate local or State agencies;
2. The name and telephone number(s) of the person responsible for the operation of the facility during an emergency;
3. The name and telephone number of any retained licensed site remediation professional; and
4. The procedures to be followed in the event of a leak or discharge of a hazardous substance, pursuant to N.J.A.C. 7:14B-7.3 and 8, and the Administrative Requirements for the Remediation of Contaminated Sites, N.J.A.C. 7:26C, and N.J.A.C. 7:14B-9 if the underground storage tank system must be closed.

(b) The owner or operator shall ensure that the release response plan is available for on site inspection.

(c) Any release response plan that is required by and is in compliance with the New Jersey Spill Compensation and Control Act, N.J.S.A. 58:10-23.11 et seq., and the Discharges of Petroleum and Other Hazardous Substances Rules, N.J.A.C. 7:1E, shall suffice for this requirement.

**Don't
FORGET!**





UST Compliance Points

Contact UST Enforcement at 609-943-3019 for more information

- ◆ Facility must have
- ◆ Registration - Current and Accurate
- ◆ Insurance - Current and Accurate Policy
- ◆ Release Detection Monitoring
- ◆ For Tanks
 - Functional and Passing Method of Release Detection
 - 0.2 passing and or Interstitial Sensors Normal/No Alarms
- ◆ For Pressurized Lines
 - Functional and Passing Method of Release Detection
 - Mechanical Line Leak Detectors– Annual Passing Test
 - Pressure Monitoring Lines - .2 GPH Test = Pass
 - Annual Line Tightness Test
 - Interstitial Monitoring
 - Test Boots Loose
 - Sensors mounted in correct position
 - Sump must be free of liquid
- ◆ Suction Piping – What type do you have?
 - American requires either monthly monitoring OR a **3-year** test.
- ◆ Corrosion Protection
 - Required Test 1 X 3 years
 - >-.850 Passing test results
 - 60 day rectifier inspection (If applicable)
 - Proof of Tank Construction– UL1746 Compliant
- ◆ Spill Prevention (Spill Buckets)
 - Clean and Dry – No Liquid
 - Inspect for **HOLES**
- ◆ Overfill Prevention
 - Present and Functional
- ◆ Monthly Containment Device Inspection Log
- ◆ Air Permit Issues
 - Current and Accurate Air Permit
 - Check all Stage 1 and 2 hardware
 - Ensure all required testing is completed and passing
- ◆ Release Response Plan
- ◆ DEP HOTLINE – 1-877-927-6337

1-877-WARNDEP HOTLINE
1-877-927-6337

The NJDEP has established a toll-free telephone hotline number you can use to report environmental incidents, abuses, and complaints in New Jersey or impacting it. The 1-877-WARNDEP number can be used in the New Jersey, New York, Pennsylvania, and Delaware calling areas.

