

Steel USTs: History and Trends

Wayne Geyer, STI/SPFA

August 1, 2013



2012 Annual Product Awards: Steel Fabricated Products



www.steeltank.com

STI/SPFA Water Storage Tank Century Club



- Dothan, Alabama
- Dixie Tank
- Built in 1897
- City landmark
- Civic pride
- 116 years old
- Remains in operation

Steel Fact Sheets

www.steel tank.com

SUSTAINABLE STEEL

- Nearly 70% of steel is recycled in the US each year. That's more than paper, glass and plastic combined.
- For every ton of steel recycled, 2500 pounds of iron ore, 1400 pounds of coal and 120 pounds of limestone are conserved.
- Since 1990, technical advances in steel production have reduced energy intensity by 27%, and CO2 emissions by 33% per ton of steel produced.
- Steel is the world's most recycled material, with 80 million tons recycled annually worldwide.

Steel Facts NUMBER 3

Sustainable Steel

A point of pride
Environmental and resource conservation issues rose to prominence in the public policy arena in the 1970's. Now, in the 21st century, engaging a resources sustainability is a growing concern.

While legislation and regulation are often sources of frustration, the US Congress recognized the importance of sustainable manufacturing with the Senate Resolution 381 in 2011, "Expressing support for improving and consumption of recyclable materials throughout the United States."

According to a 2011 study, almost 55% of US businesses now have a formal sustainability strategy.

While legislation and regulation are often sources of frustration, the US Congress recognized the importance of sustainable manufacturing with the Senate Resolution 381 in 2011, "Expressing support for improving and consumption of recyclable materials throughout the United States."

It's a point of pride for the steel industry that it has always been at the forefront of sustainable manufacturing.

Highest recycling rate
Steel is the world's most recycled material, with 80 million tons recycled annually worldwide. Ninety-two per cent of steel is recycled in North America each year, more than paper, aluminum, plastic and glass combined.

Steel products are among the most recycled consumer goods; the recycling rate for coats is 95%, for appliances more than 90%, and for steel packaging 71%.

For every ton of steel recycled, 2500 pounds of iron ore, 1400 pounds of coal and 120 pounds of limestone are conserved.

Reducing "embodied energy"
Embodied energy includes the manufacture, shipment, transport, and all other aspects of producing a product.

Since 1990, technical advances in steel production have reduced energy intensity by 27% and CO2 emissions by 33%.

Scrap for sustainability
Steel scrap is the single largest source of raw material for the fabrication industry. Not only does this conserve resources, it reduces economic sense to spare the costs of mining and processing raw ores.

The industry recycles its by-products, too. Mill scale, slud-making slugs, water and processing byproducts are all treated and returned to the manufacturing stream.

Steel can be recycled repeatedly without loss of its inherent strength and ductility.

per ton of steel produced.

Steel's embodied energy is lower than other materials due to its high recycling, reduced energy intensity, reduced energy manufacturing by using recycled products, and the inherent strength and durability that gives steel high life-time value.

Steel can be recycled repeatedly without loss of its inherent strength and ductility.

ON THE BACK PAGE
Steel is recyclable and durable. Many water storage tanks have been in continuous use for more than 100 years.

STI-SPR 344 Davis Court, Lake Zurich, IL 60047
847-438-8265 info@steel tank.com www.steel tank.com

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Steel Facts NUMBER 2

Cathodic Protected Tank Inspection

It's easy!

There are two basic methods used to provide cathodic protection on steel tanks. By far, the most common and simplest method of protection is a sacrificial anode system. These anodes require a simple bi-polar system to operate.

An impressed current cathodic protection system is the second type. Typically it requires a detailed inspection every three years and a monitoring system of the power supply cables in order to insure the system is operating within its design parameters. You should perform regular inspections.

The rectifier requires an uninterrupted supply of electricity, so always check to see that the circuit breaker that supplies electric power is working.

Steel tanks are complex structures with many different materials and coatings. It is important to inspect for corrosion and to ensure that the system is properly maintained.

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ON THE OTHER SIDE
Cathodic protection: Don't let corrosion get the best of you.

Steel Facts NUMBER 1

Steel Tanks: Compatible with All Biofuel Blends

Steel tanks are compatible with all biofuel blends. This is a key finding from a study conducted by the U.S. Department of Energy (DOE) and the U.S. Environmental Protection Agency (EPA).

The study found that steel tanks are compatible with all biofuel blends, including ethanol, biodiesel, and their blends. This is a key finding from a study conducted by the U.S. Department of Energy (DOE) and the U.S. Environmental Protection Agency (EPA).

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ON THE OTHER SIDE
Assuring compatibility: Don't let corrosion get the best of you.

Steel Facts NUMBER 4

The Strength of Steel

Steel is the strongest material in the world. It is used in everything from bridges to skyscrapers. Steel is the strongest material in the world. It is used in everything from bridges to skyscrapers.

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ON THE OTHER SIDE
Steel: The strength of steel: Don't let corrosion get the best of you.

Steel Facts NUMBER 5

Choose Steel for Lifetime Value

Steel is the most durable material in the world. It is used in everything from bridges to skyscrapers. Steel is the most durable material in the world. It is used in everything from bridges to skyscrapers.

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ON THE OTHER SIDE
Steel: The strength of steel: Don't let corrosion get the best of you.

What does the Steel Tank Institute do?

- UST and AST tank technologies
- Industry standards and recommended practices
- Licenses manufacturers to build tanks to STI specifications
- Quality control
- Information resource
- Certification



1985 Sti-P3 Tank Removed
in 2013 – No Leaks

Education, Research, & Advocacy



STI Certification Programs

- 927 Certified SP001 Aboveground Storage Tank Inspectors
- 484 Certified Cathodic Protection Testers
- Over 130,000 sti-P3 tanks tested for cathodic protection through WatchDog program
- NEW: On Line Learning Program
 - T*I*M *Tank Integrity Management*

STI Stats: Shop-Fabricated Tanks

- **Over 100 tank shops licensed and inspected**
- **14 tank fabrication standards in place**
NEW: DEF and CleanSite Containment™
- **19 recommended practices for testing, installation and inspection**
NEW: R111 Storage Tank Maintenance
Under Development: SP131- UST Inspection, Repair, & Modification
- **6 UL files with hundreds of volumes & 4 SWRI technology programs**

Tank Registration

- Every tank built with an STI label is inspected by tank fabricator to meet STI specification
- Tank is “registered” with STI
- STI maintains database with over 400,000 entries

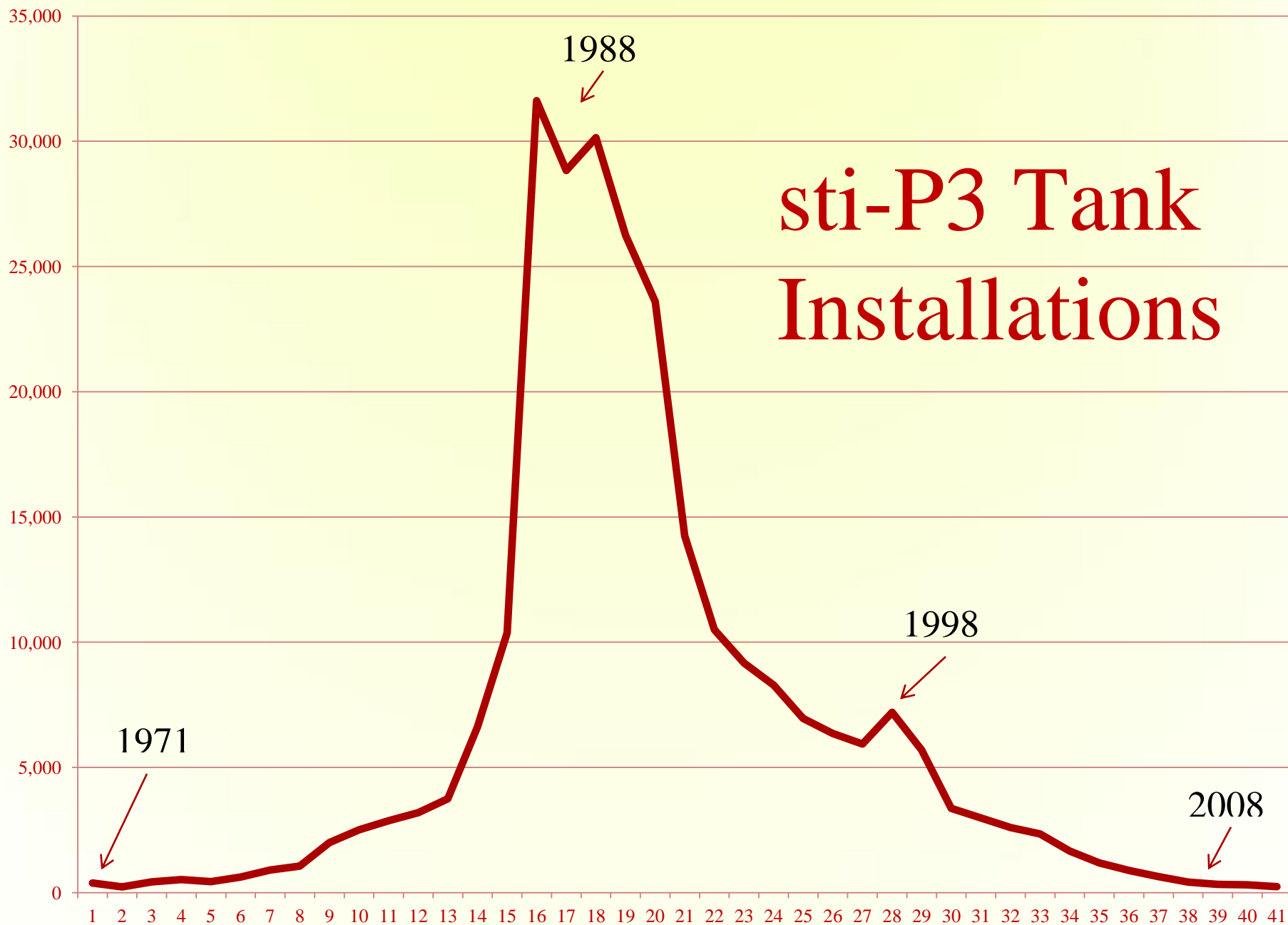
RECD MAY 18 2013		ENTD MAY 20 2013																									
INSPECTION PER SPEC REQUIREMENTS 1/08				ACT-100® TANK INSPECTION FORM Part #020-40-0007																							
STI LABEL # 56419	LABEL # R-847459 UL58 (UL1746) UL2215 ULC ASME SPECIAL DRAWING	Manufacturer Name & Location REF: 28941 WATCO TANKS, INC., FLORESVILLE, TX 29126		Installation in: <input checked="" type="checkbox"/> US <input type="checkbox"/> Canada <input type="checkbox"/> Mexico		Other:																					
Final Approval/ Shipping Date 5/1/13	Capacity (Gallons/Liters) 12,000	Dual Wall: Type 1 → Degrees: 330° Type 2	If Extended Heads give inches:		STI OWS MODEL #: 1 2 3 4 5		OWS Label #:																				
Inner Tank Diameter: FT/M 96" (N) MM	Inner Tank Length: FT/M 32'-2" (N) MM	Inner steel thickness .245	# Stiffeners N/A	Stiffeners Size/Type N/A																							
Outer Tank Diameter: FT/M 97" (N) MM	Outer Tank Length: FT/M 32'-3" (N) MM	Outer steel thickness .143	Labeled burial depth 5'	Manholes # & Size: N/A																							
Resin Richard 33-480	FRP Roving: OC ME 3021 Fiber Length:	Interstitial monitor pipe location: 22" FROM END		Warranty Period 1/1/08 10 Year Warranty		<input checked="" type="checkbox"/> 10 Year + 20 Year																					
Pre-Coating		FRP Laminate		HEADS - REQUIRED DFT READINGS																							
<input checked="" type="checkbox"/> Air Test, Blast & Welding per spec <input checked="" type="checkbox"/> Weld Spatter Removed <input checked="" type="checkbox"/> Striker Plates seal welded directly under all openings <input type="checkbox"/> Tank meets spec 4.2.2:		<input checked="" type="checkbox"/> Chopped glass OR <input type="checkbox"/> Hand lay-up <input checked="" type="checkbox"/> 1 st resin coat on steel <input checked="" type="checkbox"/> Wax or seal coat on laminate <input checked="" type="checkbox"/> Barcol Hardness: Hi 45 Low 35 <input checked="" type="checkbox"/> Laminate checked for adequate thickness <input checked="" type="checkbox"/> Laminate 100% holiday free		# Readings required by Tank Diameter																							
				<table border="1"> <tr> <td>< 64"</td> <td>64 - 72"</td> <td>73 - 120"</td> <td>121 - 132"</td> <td>133" & up</td> </tr> <tr> <td>8</td> <td>12</td> <td>16</td> <td>20</td> <td>24</td> </tr> <tr> <td colspan="2"># Readings</td> <td colspan="2">HIGH DFT</td> <td>LOW DFT</td> </tr> <tr> <td colspan="2">16</td> <td colspan="2">140</td> <td>120</td> </tr> </table>				< 64"	64 - 72"	73 - 120"	121 - 132"	133" & up	8	12	16	20	24	# Readings		HIGH DFT		LOW DFT	16		140		120
< 64"	64 - 72"	73 - 120"	121 - 132"	133" & up																							
8	12	16	20	24																							
# Readings		HIGH DFT		LOW DFT																							
16		140		120																							
Electrical Isolation				SHELL - REQUIRED DFT READINGS																							
<input checked="" type="checkbox"/> Approved nylon bushings installed properly <input type="checkbox"/> Discontinuity verified on all flange isolation <input type="checkbox"/> Fabricated per Spec paragraph 5.6 Manway Extensions/Work Chambers: <input type="checkbox"/> Electrically isolated & discontinuity verified OR <input type="checkbox"/> Manway considered part of tank & laminate applied per Specification				# Readings required by Capacity in Gallons																							
				<table border="1"> <tr> <td>0 - 1,499</td> <td>To 5,999</td> <td>To 11,999</td> <td>To 24,999</td> <td>25k & UP</td> </tr> <tr> <td>10</td> <td>15</td> <td>20</td> <td>25</td> <td>30</td> </tr> <tr> <td colspan="2"># Readings</td> <td colspan="2">HIGH DFT</td> <td>LOW DFT</td> </tr> <tr> <td colspan="2">25</td> <td colspan="2">120</td> <td>100</td> </tr> </table>				0 - 1,499	To 5,999	To 11,999	To 24,999	25k & UP	10	15	20	25	30	# Readings		HIGH DFT		LOW DFT	25		120		100
0 - 1,499	To 5,999	To 11,999	To 24,999	25k & UP																							
10	15	20	25	30																							
# Readings		HIGH DFT		LOW DFT																							
25		120		100																							
Pre-Shipment Inspection				Final Approval - tank meets ACT-100® spec																							
<input checked="" type="checkbox"/> Tank inspected for damage & repaired if necessary <input checked="" type="checkbox"/> Laminate repair kit for field repair shipped with tank <input type="checkbox"/> Lift lug covers & sealant kit included <input type="checkbox"/> Protective padding installed (urethane coated tanks only) <input checked="" type="checkbox"/> ACT-100® Labels affixed <input checked="" type="checkbox"/> Tank properly loaded <input checked="" type="checkbox"/> Current installation instructions sent with tank				Signature: <i>[Signature]</i>																							
				Return to STI within 30 days of tank shipment. Fax 847/438-8766 E-mail: kmann@steeltank.com Mail: STI, 944 Donata Court, Lake Zurich, IL 60047																							

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sti-P3 Tank Installations



Years in Number after 1970

How many tanks have been
built to STI specifications as of
June 30, 2103?

- A. 573
- B. 9,688
- C. 83,248
- D. 411,279
- E. 1,234,567



Tank Numbers

How many tanks have been built to STI specifications as of June 30, 2103?

- A. 573
- B. 9,688
- C. 83,248
- D. 411,279**
- E. 1,234,567

Tank Performance Evaluation

- All STI labeled UST's subject to 3rd party warranty
- STICO Mutual has strong claims management program
- STI gets feedback on quality and performance

RECD MAY 17 2013

ACT100® 10 Year plus Additional 20 Year Extension Limited Warranty Validation Card

Please complete this form to validate your tank manufacturer's Limited Warranty. This card must be completely and accurately filled out and returned to STI within 30 days after the tank is installed, or within 90 days after the tank is shipped from the manufacturer, whichever comes first. Warranty limitations may exist based on the product stored in the tank, please refer to the limited warranty document supplied with this form. By signing this form, the tank owner verifies that the tank was installed in accordance with STI Installation Instructions, the product stored is compatible with the tank, and the owner has read and agrees with the terms of the Limited Warranty, included with this form.

Manufacturer's Name: WATCO TANKS, INC. **ACT-100 Label:** 56419

INSTALLER INFORMATION - name of company that installed the tank

Warranted Date: _____ **Date Installed:** 5/13/13

Installer Name: Prawl Construction, Inc. **Phone:** 402-538-9970

TANK LOCATION INFORMATION - where tank was installed

Name of Facility (where tank is installed): EZ Mart #522

Street address: 301 Hwy 270 west **Suite:** _____

Contact Name: Steve Lavinus **Phone:** 903-832-16502

City: Alderson **State:** OK **ZIP:** 74522 **Country:** USA

TANK OWNER MAILING ADDRESS - how do we contact the owner of the tank

Owner name: EZ Mart Stores, Inc.

Mailing address: 402 W. Falvey **Suite:** _____

Contact Name: Steve Lavinus **Phone:** 903-832-16502 **Fax No.:** 903-832-7010

City: Texarkana **State:** TX **Zip:** 75501 **Country:** USA

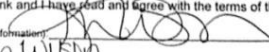
Email address: slavinus@ez.mart.com

TANK USAGE INFORMATION PLEASE TELL US ABOUT WHAT THE TANK WILL STORE & THE TYPE OF FACILITY

<p>Check Product(s) Stored in this Tank:</p> <p><input checked="" type="checkbox"/> Gasoline</p> <p><input type="checkbox"/> Heating Oil (Petroleum #1, #2, #4, #5 WHICH IS NOT HEATED)</p> <p><input type="checkbox"/> Diesel fuel or kerosene for powering motor vehicles</p> <p><input type="checkbox"/> Generator Power Fuels</p> <p><input type="checkbox"/> Diesel fuel or kerosene for heating premises</p> <p><input type="checkbox"/> #6 Heating Oil</p> <p><input type="checkbox"/> Aviation Gas</p> <p><input type="checkbox"/> Biodiesel</p> <p><input type="checkbox"/> Crude Oil</p> <p><input type="checkbox"/> Oil/Water Separator</p> <p><input type="checkbox"/> Water or Wastewater</p> <p><input type="checkbox"/> Product which is heated during storage</p> <p><input type="checkbox"/> Other: _____</p>	<p>Check Type of Facility Where Tank is installed:</p> <p><input checked="" type="checkbox"/> Gas Station</p> <p><input type="checkbox"/> Private Residence</p> <p><input type="checkbox"/> Car Dealer</p> <p><input checked="" type="checkbox"/> Convenience Store</p> <p><input type="checkbox"/> Quick Lube</p> <p><input type="checkbox"/> Industrial Site</p> <p><input type="checkbox"/> Hospital</p> <p><input type="checkbox"/> Airport</p> <p><input type="checkbox"/> Utility Site</p> <p><input type="checkbox"/> Farm/Nursery</p> <p><input type="checkbox"/> Other: _____</p>
---	---

SIGNATURE REQUIRED

My signature below verifies that this tank was installed in accordance with STI Installation Instructions, the product stored is compatible with the tank and I have read and agree with the terms of the Limited Warranty, provided with this document.

Signature (of person providing this information):  **Date:** 5/13/13

Please Print Name: Kristen Wilson

Company Name: EZ Mart Stores, Inc. **Phone:** 903-832-16502

Thank you for completing this document and returning it to the STI address below:

STEEL TANK INSTITUTE • 944 Donata Court • Lake Zurich, IL 60047 • 847/438-8265 • FAX 847/438-8766

This document is furnished as a service to a Steel Tank Institute member

01-10 020-40-0012

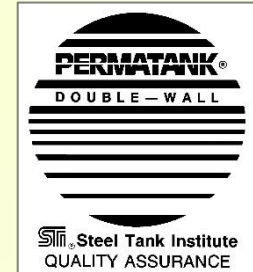
STI Quality Control Program

- Random inspections performed by qualified STI inspectors on quarterly basis
- Mandatory attendance at Quality Control meeting
- Quality awards



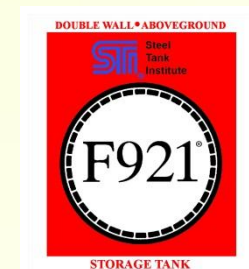
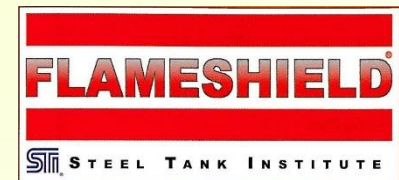
Tank Capacity: True or False?

1. Over 2 billion gallons of underground storage tanks have been built and installed with the STI label.
2. The average sized ACT-100 composite underground storage tank capacity built in 2011 was 14,042 gallons.
3. The average sized Permatank jacketed steel underground storage tank built thru June 2013 is over 16,000 gallons.
4. Fireguard AST's are larger on average than STI labeled UST's.



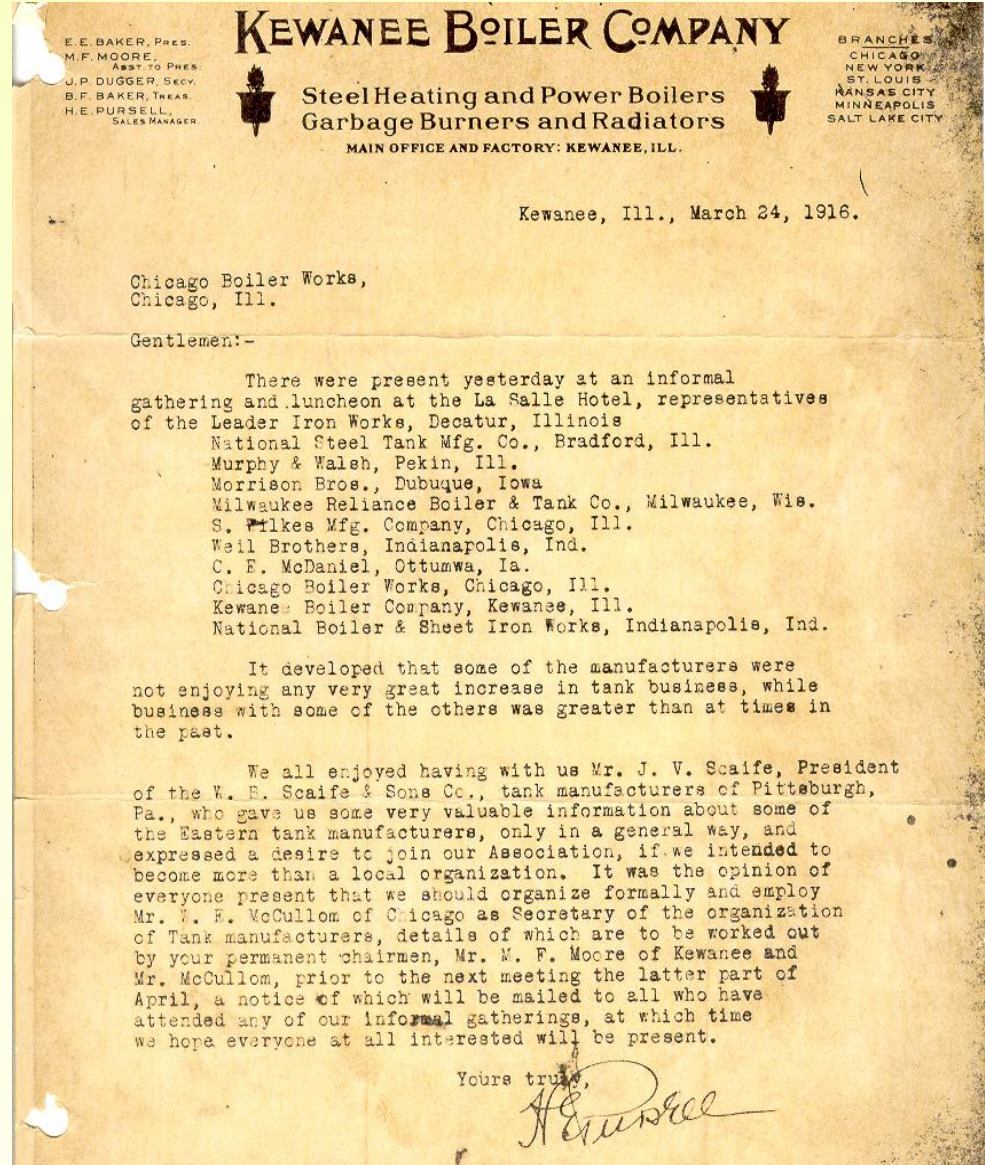
Tank Capacity: True or False?

1. Over 2 billion gallons of underground storage tanks have been built and installed with the STI label. *True*
2. The average sized ACT-100 composite underground storage tank capacity built in 2011 was 14,042 gallons. *True*
3. The average sized Permatank jacketed steel underground storage tank built thru June 2013 is over 16,000 gallons *True*
4. Fireguard AST's are larger on average than UST's. *False*



USA History

- 1859 - Oil Found
- 1904 - NBFU 30 Rules for Petro
- 1916 – STI
- 1919 – API
- 1922 - UL 142
- 1925 - UL 58
- 1969 – sti-P3
- 1989 – UL 1746



Pre WWII - Riveted Tanks



MIDWEST 56 STANDARD FOR UNDERGROUND GASOLINE TANKS
CAPACITIES — SIZES — GAGES — OPENINGS — WEIGHTS

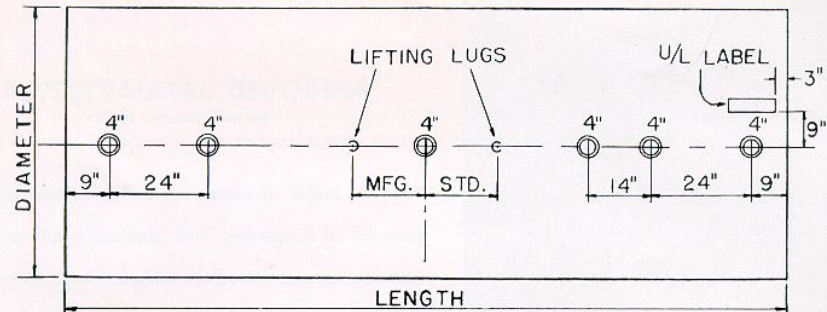
1956
Standardized
Tank Fitting
Location

Data on Black Steel Underground Tanks

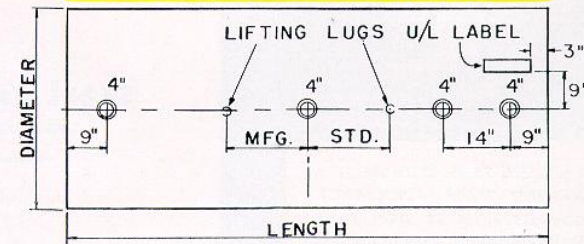
CAPACITY GALLONS	U.S.S. GAGE	APPROX. THICKNESS	DIAMETER	LENGTH	WEIGHT EST.
560	12	7/64"	4'-0"	6'-0"	480
1000	10	9/64"	4'-0"	11'-0"	968
1000	10	9/64"	5'-4"	6'-0"	875
560	7	3/16"	4'-0"	6'-0"	828
1000	7	3/16"	4'-0"	11'-0"	1325
1000	7	3/16"	5'-4"	6'-0"	1180
2000	7	3/16"	5'-4"	12'-0"	1980
3000	7	3/16"	5'-4"	18'-0"	2765
3000	7	3/16"	6'-0"	14'-0"	2565

CAPACITY GALLONS	U.S.S. GAGE	APPROX. THICKNESS	DIAMETER	LENGTH	WEIGHT EST.
4000	7	3/16"	5'-4"	24'-0"	3560
4000	7	3/16"	6'-0"	19'-0"	3310
4000	7	3/16"	7'-0"	14'-0"	3150
5000	3	1/4"	6'-0"	24'-0"	5400
6000	3	1/4"	6'-0"	29'-0"	6380
6000	3	1/4"	8'-0"	16'-0"	5370
8000	3	1/4"	8'-0"	21'-0"	6685
10000	3	1/4"	8'-0"	27'-0"	8260
10000	3	1/4"	10'-0"	17'-0"	7340

2000 GALLON CAPACITY AND LARGER



UNDER 2000 GALLON CAPACITY



NOTES

1. TANKS SHALL BE MADE TO THE INSIDE DIMENSIONS SHOWN IN TABLE.
2. TANKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES, INC. STANDARDS FOR UNDERGROUND STORAGE TANKS, SUBJECT 58, LATEST REVISION, UNDERWRITERS LABEL APPLIED IN POSITION SHOWN.
3. OPENING SIZES AND SPACING AS SHOWN ARE STANDARD; OTHER SIZES OR SPACING WILL BE CONSIDERED AS SPECIAL.
4. PAINT; ONE SHOP COAT.
5. ALL OPENINGS SHALL BE COVERED WITH METAL CAP TO PREVENT ENTRANCE OF DIRT AND MOISTURE DURING SHIPMENT.

MIDWEST 56 STANDARD FOR UNDERGROUND GASOLINE TANKS

STEEL TANK INSTITUTE
120 So. LaSalle Street
Chicago 3, Illinois

APPROVED
January, 1954
(Revised January, 1956)

1960's: Search for Corrosion Control

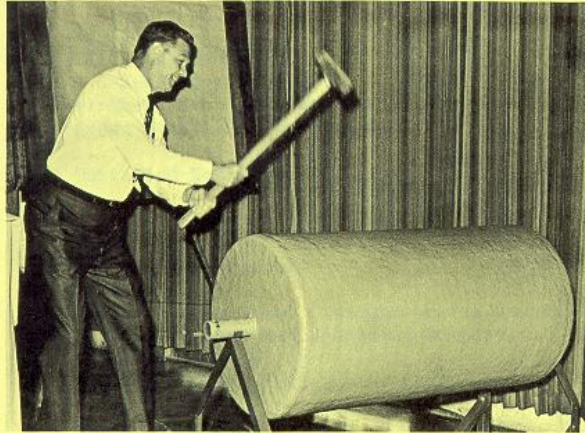




STEEL TANK INSTITUTE

THE NATIONAL ORGANIZATION SERVING THE TANK INDUSTRY


MINUTES



Robert Mason, Chairman S.T.I. Promotion Committee versus Sti*life steel tank. Sti*life is the WINNER.

SEMI-ANNUAL MEETING

June 19-20-21, 1968

THE LODGE *of*  THE FOUR SEASONS
LAKE OZARK, MISSOURI



FRP
Coatings

**1969:
sti-P3
Pre-
Engineered
Cathodic
Protected
Steel Tanks**



1970's: Touch It, Feel It!! Dielectric Coatings are Here



In what year was the first standard published in the United States for secondary contained underground storage tanks?

- A. 1989
- B. 2005
- C. 1984
- D. 1969



C) 1984 – STI Dual Wall Tank Standard



Steel Tank Institute Standard For Dual Wall Underground Steel Storage Tanks

Preface

The Steel Tank Institute (STI), formed in 1916, is a not-for-profit organization whose purpose is to secure cooperative action in advancing by all lawful means the common purposes of its members and to promote activities designed to enable the industry to conduct itself with the greatest economy and efficiency. It is further the purpose of STI to cooperate with other industries, organizations and government bodies in the development of reliable standards which advance industry manufacturing techniques to solve market-related problems.

This Standard for dual wall tank construction is based on the application of sound engineering principles and the combined experience of STI membership, which includes state-of-the-art manufacturing considerations. It represents a composite of data from users, manufacturers, regulatory authorities, and consultants.

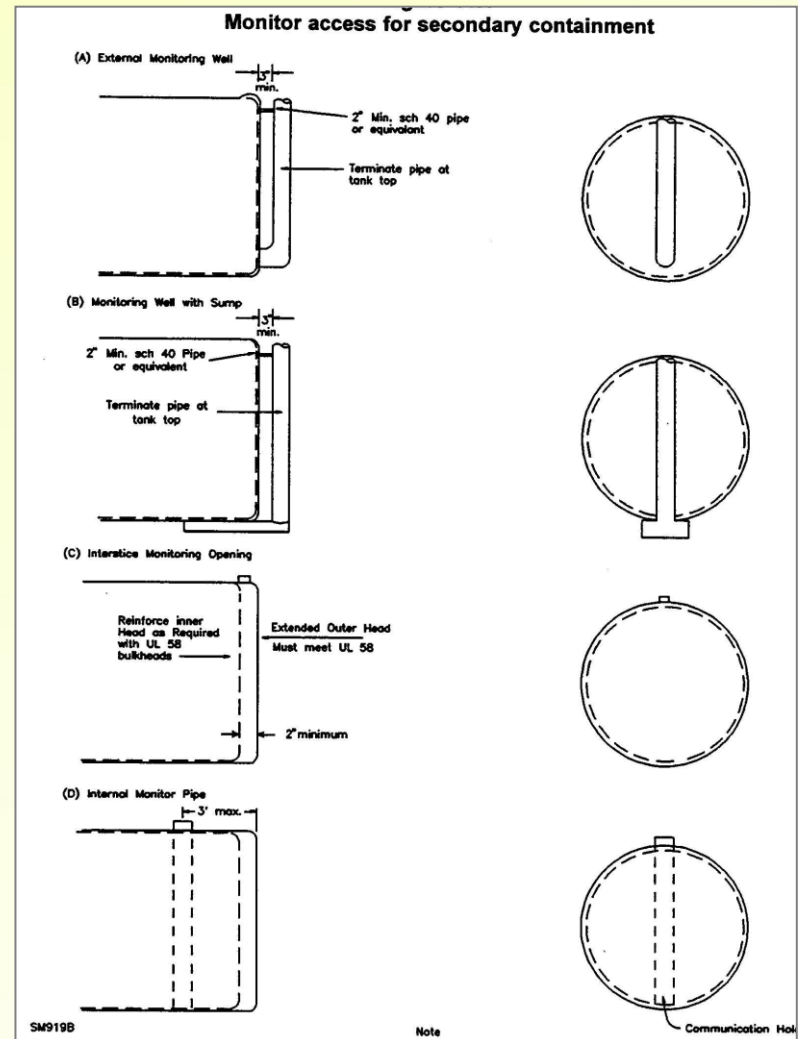
STI's Standard for Dual Wall Tanks recommends which form of interstitial space monitoring?

- A. Electronic monitoring (constant)
- B. Regular sticking
- C. Mechanical (float devices)
- D. Pressure or vacuum
- E. None of the above
- F. Answers A, B, C, and D
- G. Answers A, B, and C



Answer “F”

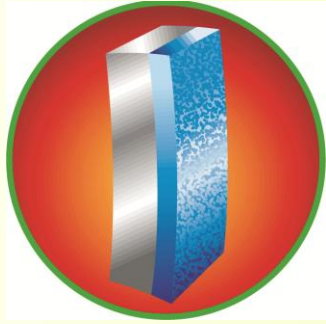
- **F:** All four of the methods mentioned.
- STI felt that the tank operator/owner should be able to freely choose the best method of leak detection that the market permitted.



**1986
Fittings
Contained
within a
Common
Sump**

STI 86





Coatings Provide Corrosion Protection



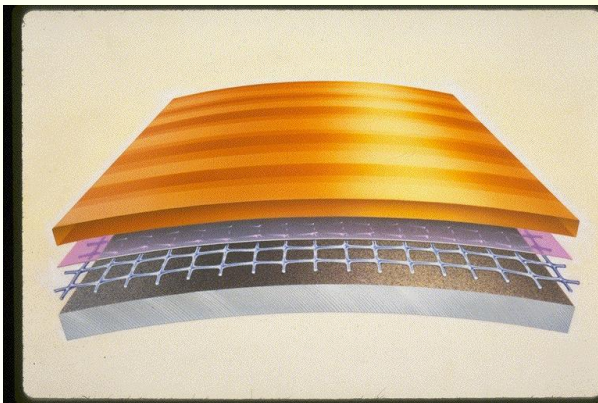
**1987 – Composite
Steel Tank**

**1990 – STI takes
over ACT-100 tank
program**

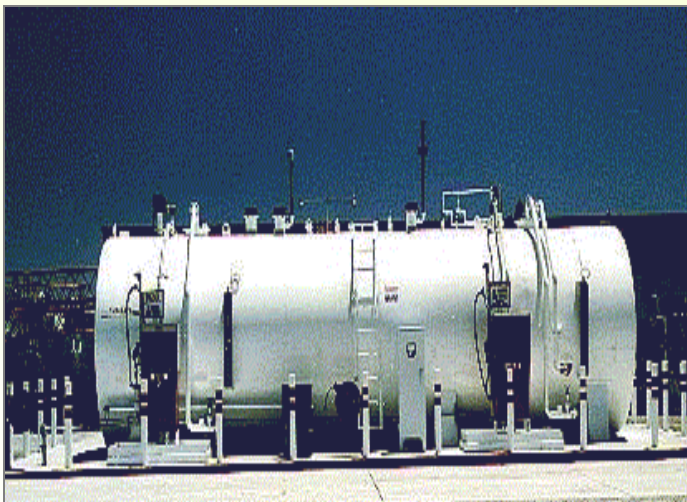
1996 – ACT-100-U



1991 - Jacketed Steel Tanks



Early 1990's: AST Acceptance



21st Century Trends



Larger Capacity Tanks



Secondary Containment AST's



Secondary Containment UST's



How have secondary contained underground steel tanks performed?

- A. Secondary containment eliminates external corrosion failures of the primary tank due to soils.
- B. There have been no pollution incidents from secondary contained steel tanks.
- C. A and B
- D. None of the above



How have secondary contained steel tanks performed?

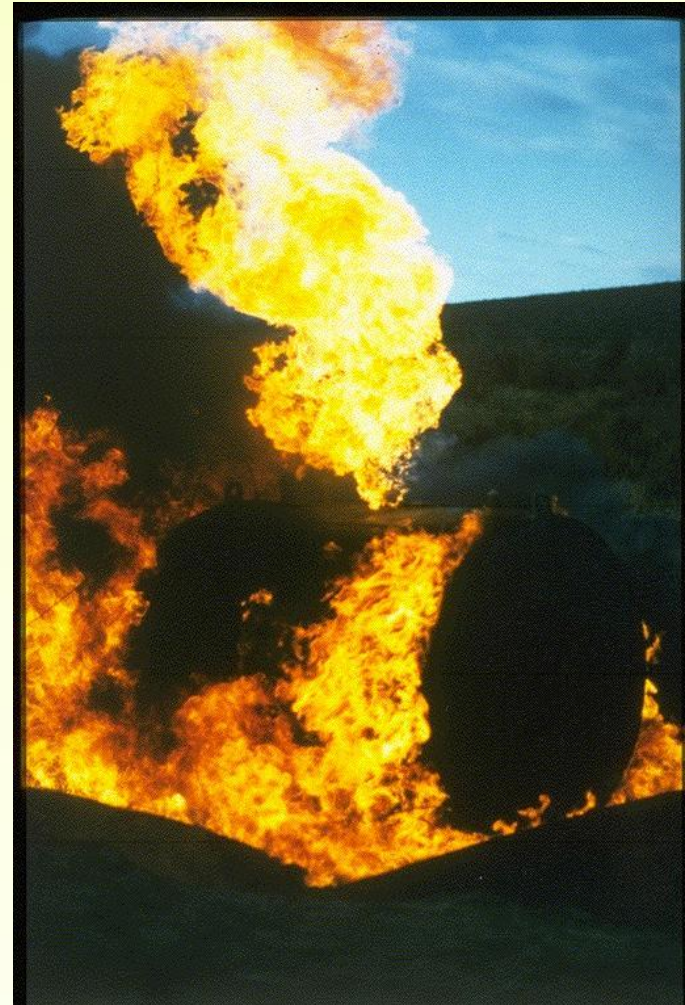
- A. The secondary containment eliminates external corrosion failures of the primary tank from soils.
- B. There have been no pollution incidents from secondary contained steel tanks.
- C. A and B**
- D. None of the above



Tanks with Compartments



AST's with 2-Hr Fire Test Ratings



What is this?



Tank Compatibility

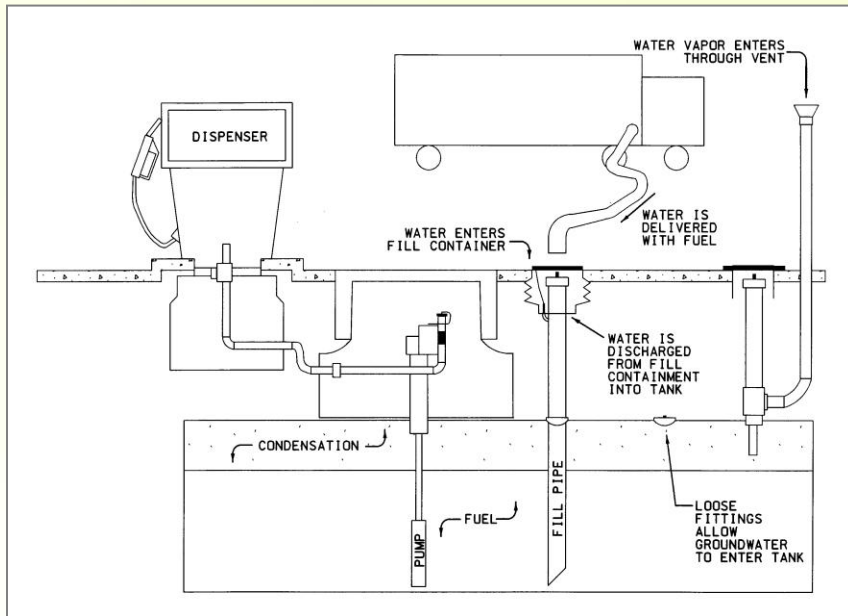


Inspection and Maintenance



Inspection and Maintenance

STI R111: Tank Maintenance Keeping Water Out of Your Storage System



STI SP001 AST Inspection



UST explosions due to lightning: Norfolk, NE, September 2, 2011



Which statements **Do Not** describe industry trends?

- A. UST's are getting larger
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- C. Compartment tanks
- D. Two-hour fire tested or protected tanks for aboveground fueling systems and generator fuel storage



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