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Volume 27 No 2

JUNE 2012

Help STI develop repair, modification standards

The Steel Tank Institute (STI) is forming a technical committee to develop a consensus standard for *Underground Storage Tank Repair & Modification*. STI believes that the consensus process will result in an open, transparent standard that can be relied upon by stakeholders in the industry. We are seeking interested parties to participate in this process.



Draft standard scope

This standard covers the repair and modification of atmospheric-type shop-fabricated carbon and stainless steel underground tanks. It applies to tanks storing stable flammable and combustible liquids at atmospheric pressure. Repairs may be done by either welding, coatings, or a combination of both.

Participant commitment

The process will begin with an in-person meeting in Chicago this summer, followed by conference calls to further develop the standard. The frequency and timing of the meeting and calls will be determined once the development process is underway, and will depend on the needs of the committee and individual task groups. Our goal is to publish the final document in 12-18 months.

If you are interested in participating in development of STI's tank repair/modification standard, please [complete this application form](#) and return to Lorri Grainawi, STI Director of Technical Services, lgrainawi@steeltank.com.

UL develops new standards for flammable and combustible liquid storage systems



Underwriters Laboratories is expanding its publications for flammable and combustible liquid storage systems. Many of these publications are considered "outlines" at this time. What's the difference between a UL standard and a UL outline?

[Click here for more](#)

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NEW! Total Cost of Ownership tool now online

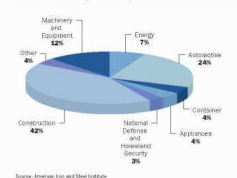
STI/SPFA offers this web-based, cutting-edge Total Cost of Ownership (TCO) tool to the water storage tank industry. Formerly requiring use of

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Did you know?

2011 Steel Shipments by Market Classification



2011 Steel Shipments by
Market Classification
(AISI Profile 2012)

The fabricated metal products
market grew 9.1% in twelve
months 3/11-3/12

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RSS feed instructions,
[click here](#).

Industry Calendar

NFPA Conference & Expo

Excel spreadsheets, TCO has been completely revised and updated for this online application.

The TCO tool meets industry demand to quantify the Net Present Value of storage tank ownership. The concepts of initial cost, significant renovation costs, and routine maintenance costs are considered for welded steel, bolted steel, and concrete tanks in this powerful tool.



TCO was developed to assist water system managers to analyze the total cost of ownership for three common types of flat-bottom, ground supported water storage tanks (with roofs) constructed in accordance with AWWA standards: Welded Steel Tanks: AWWA D100; Bolted Steel Tanks: AWWA D103; Concrete Tanks: AWWA D110 or D115.

The TCO online tool is free to all users (registration required). Users can both input and store data related to a specific tank or tank project, and study the default data presented in the program. Data is retained for twelve months, and is visible only to the user. There is no limit to the number of tank projects users can store.

[Click here to learn more about STI/SPFA's TCO tool](#)

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Economic impact of the American steel industry



A report commissioned by the American Iron and Steel Institute (AISI) demonstrates the impact of steel on our economy. Timothy J. Considine, professor of energy economics at the University of Wyoming, authored the paper which was published in March 2012.

The report results indicate that the steel industry is leading America out of the recession, due to its central position as the manufacturing material of choice:

- "Multiplier effect: For every \$1 increase in sales for iron and steel mills and ferro alloy industries, total output in the US economy increases by \$2.66.
- "The steel industry is a job creator, directly or indirectly supporting more than 1 million US jobs.
- "The steel industry is a leading generator of tax revenues for all levels of government."

For key findings and complete report, [click here](#).

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Tank and Petroleum Mishaps



delivery company...

North Dakota: Inspectors keep tabs on oil field spills...

Portland, OR: A man died after falling into a holding tank of toxic chemicals on a barge...

St. Augustine, FL: A broken gauge on an above-ground gasoline storage tank caused an explosion and an OSHA "willful violation" for the supply and

[Click here for these stories](#)
[Click here for more Tank Mishaps](#)

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June 11-14
Las Vegas NV

**STI/SPFA SP001 AST
Inspector Training**
July 16-20
Norristown PA

**ASCE Pipelines 2012
Conference**
August 19-22
Miami Beach FL

**STI/SPFA Cathodic Protection
Training**
September 5-6
Norristown PA

**STI/SPFA SP001 AST
Inspector Training**
September 10-14
Houston TX

Automechanika 2012
September 11-16
Frankfurt Germany

**STI/SPFA
2012 Fall Conference**
September 11-13
Houston TX

**More industry events:
2011-12 Industry Calendar of
Meetings, Seminars &
Conferences**

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NSF on coatings and concrete ingredients

STI/SPFA recently posed some questions to NSF regarding certification of concrete and concrete ingredients, Annex C compliance, and additional testing.



Dave Purkiss, General Manager, Water Treatment and Distribution Systems, NSF International, responds in this article.

[Click here for NSF responses](#)

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UST capacity of today's C-stores



Recently, STI staff was asked, "What is the typical underground storage tank capacity installed at new service stations today?"

Twenty-five years ago, the typical UST was 8,000 or 10,000 gallons in capacity, and fittings for pipe connections were, for the most part, placed in the same orientation along the top of a tank. Tanks could be built and inventoried for a

wide variety of tank buyers at that time, with two or three tanks installed (24,000 gallons total) for storing several grades of gasoline (and perhaps diesel).

Those days are long gone. Underground storage tanks today are customized and built to order...

[Click here for more...](#)

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CSB: 3 killed, 4 injured in vapor cloud deflagration and fire



This US Chemical Safety Board investigation report examines "a vapor cloud deflagration and fire that occurred on January 13, 2003, at BLSR Operating, Ltd., near Rosharon, Texas. The fire was caused by the release of hydrocarbon vapor during the unloading of

basic sediment and water from two vacuum trucks into an open area collection pit."

There has been a dramatic increase in fracking around the nation in areas that may be unfamiliar with the unique safety challenges of managing its waste products. This report offers good information and an object lesson in preventing this kind of tragedy.

"This report identifies the root and contributing causes of the incident. It makes recommendations on recognizing the flammability hazards of exploration and production waste liquids, and on safely handling flammable liquids," the report abstract says.

[Click here to read the complete report](#)

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1888 water storage tank still in use

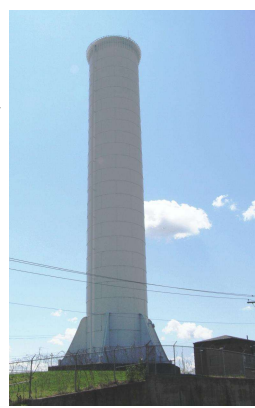
This distinctive standpipe water storage tank in Jefferson City, Missouri, is 124 years old and still in active service. It's one of STI/SPFA's Century Club members, recognizing tanks more than 100 years old.

Steve Ridenour, Missouri American Water's operations supervisor, has a long relationship with the tank. "I've looked at it every weekday for 31 years," he says. "Local public school classes often come to the water

plant on field trips. The kids call our tank 'the rocket ship' because of its shape."

[**Click here for the whole story**](#)

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Elevated tank fends off tornado's missile



On April 27, 2011, an EF5 tornado destroyed the town of Smithville, Mississippi. It was a terrible tragedy, but in one case at least, steel held against the strength of the storm. Smithville's 50-year-old elevated water storage tank was dented, but not downed, when it was struck by an airborne automobile during the tornado.

An article in AWWA's Spring 2012 *Pipeline* journal offers a comprehensive story about the impact of the tornado on Smithville's elevated tank and its water system infrastructure.

[**Click here to read the article from Pipeline**](#)

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STI/SPFA Fall Conference registration is open



September 11-13

Intercontinental Hotel, Houston TX

[**Click here for program and registration**](#)

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Get the facts about the benefits of steel

STI/SPFA presents our series of **STEEL FACTS** informational flyers. These single-page handouts dispel the myths and present the simple facts about the benefits of using steel, all of which have been researched by industry experts:



- *The Strength of Steel*
- *Choose Steel for Lifetime Value*
- *Cathodic Protected Tank Inspection*
- *Steel Tanks: Compatible with All Biofuel Blends*

[**Click here to get your own copies of Steel Facts**](#)

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Online learning from STI/SPFA

Cost-effective and convenient, online education and training is a rich resource for you and your employees. STI/SPFA offers these e-learning modules and archived webinars:



- Tank Venting Essentials: PreVENTing Catastrophe
- Steel Water Tank Standards
- Steel Water Tank Construction
- Steel Water Tank Coatings and Linings
- Steel Water Pipe Installation
- Steel Water Pipe Coatings and Linings

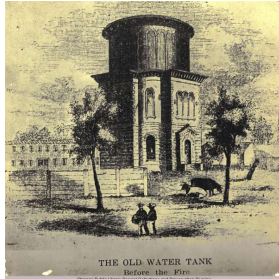
Take advantage of these easy-access, low-cost presentations by industry experts.

[Click here](#) for e-learning modules

[Click here](#) for archived webinars

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Water tank's new life after Great Chicago Fire



The Chicago Architecture Foundation is renowned for its historical tours of the city.

This story is told about an iron water tank that survived the Great Chicago Fire of 1871 and went on to house the city's first public library.

[Click here for the story](#)

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STI/SPFA presents unique workshop at Stainless Steel World

Pressure Vessel and Tank Fabrication Using Stainless Steels is a half-day workshop on October 17th, presented by STI/SPFA in conjunction with the Stainless Steel World Conference & Expo in Houston.

Our pressure vessel workshop is complimentary for all conference attendees. [Click here](#) for the workshop agenda.

We'll also have an exhibit booth at the expo, so be sure to stop by if you're attending! For complete information about the Stainless Steel World Americas Conference & Expo, [click here](#).



October 16th - 17th, 2012

The Woodlands Waterway Marriott Hotel
Houston Texas, USA

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