

Underground Piping and the 2014 UST Regulations...Are You Ready?

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Agenda

Background

- UST Regulations History and Piping Implications
- 2014 Regulations vs. Current
- Are You Ready?
- What about 2024?
- Summary and Questions

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Background

National Oilwell Varco (NOV)

- Public company around since 1841, with focus on Oil & Gas Industry
- \$20B+ in 2012 Revenue
- Fiber Glass Systems is a \$800M division of NOV
 - Oil & Gas
 - Marine & Offshore
 - Chemical & Industrial
 - Fuel Handling

Fuel Handling Market

- Piping products UL Listed since 1968
- Plants in Texas and Arkansas
- Two product lines Red Thread IIA (Smith) and Dualoy (Ameron)
 - Size-over-size double containment
 - Coaxial double containment (Dualoy 3000/LCX)



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UST Regulations – A Brief History

- Goal of Regulations to prevent the release of UST contents which may cause contamination of soil and water supplies.
- 1984: Subtitle I was added to the Solid Waste Disposal Act – required EPA to protect the environment and human health from UST release
- 1988: EPA finalized Up tions and set a deadline of December 1998 for compared to the set a deadline of December 1998 for compared to the set a deadline of the set a deadline
- 2005: Energy Policy A ded Subtitle I of the Solid Waste Disposal Act to increase requirements for operations training, inspections, secondary containment, and financial responsibility.
- 2014: Revision to UST Regulations due out early 2014.

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UST Regulations – Piping Implications

- Underground piping associated with USTs are considered UST equipment, and thus are regulated by the EPA.
- Secondary containment on fuel piping systems was required by the 2005 revisions to Subtitle I.
- The 2014 UST Regulations will focus on proper operation and maintenance of secondary containment systems.
 - Interstitial Integrity will be point of emphasis!

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2014 UST Piping Regulations vs. Current

General – New Regs are designed to strengthen the current Regs and increase the emphasis on proper O&M of UST equipment. This includes all USTs, including those on Indian Land.

Secondary Containment (SC):

- Current –Interstitial Monitoring not always required.
- Proposed SC and Interstitial Monitoring for all new and replaced tanks AND piping (including petroleum), except for safe suction piping. When 50% or more of a system's piping is replaced, all of the piping must be replaced. Implementation is immediate.
- Comments To reduce risk, focus on piping materials a proven record of interstitial integrity testing (think California)

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2014 UST Piping Regulations vs. Current – cont.

Operation & Maintenance (O&M):

- Current NO Interstitial Integrity Testing.
- Proposed All systems must perform integrity testing on their interstitial area once every 3 years, or use continuous monitoring methods.
 Implementation will be phased in over 3 years based on tank installation dates.
- Comments To reduce risk, focus on piping systems with a proven record of interstitial monitoring (again....think California)

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2014 UST Piping Regulations vs. Current – cont.

State Program Approval (SPA):

- Current Regs include criteria for states choosing to obtain SPA.
- Proposed All SPAs must include the proposed EPA Regulation changes. States have 3 years to submit revised SPA package.
- Comments SPA regulatory tightness varies by state. Many states have already revised, or are in the process of revising, their Regulations to meet the proposed EPA regulations.

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So What?

- If you have not started to prepare, START NOW!
- Consult others who have already taken the next step....and beyond.
- Work with your state regulators.
- Be visionary! Focus not only on the 2014 Regs, but think about what may come down the road.
- Consider Total Cost of Ownership. Consider long term system performance and O&M costs.
 - What is the cost of not getting it right the first time?!

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What about 2024?

- 2014 = periodic testing
- What will be required in 2024...Continuous Monitoring? What else are we to expect?

Consider what your UST system will be carrying?

Are the materials you select now going to cut it with tomorrow's fuels?

"I will be retired by then" is NOT an acceptable answer!!!

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Thank you very much!!!



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