U.S. NRC and Industry Public Meeting

Buried/Underground Piping

American Society of Mechanical Engineers

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ASME SCXI Buried Component Activities

ASME Inservice Inspection Standards Committee

- Consensus Body Standards Committee
- Boiler & Pressure Vessel Code

– Section XI, Inservice Inspection

- Board of Nuclear Codes and Standards (BNCS)
- Technical Oversight Management Committee
- Multi-Tiered Committee Body Structure
 - Standards Committee (SC), Sub Groups (SG),
 Working Groups (WG), Task Groups (TG)

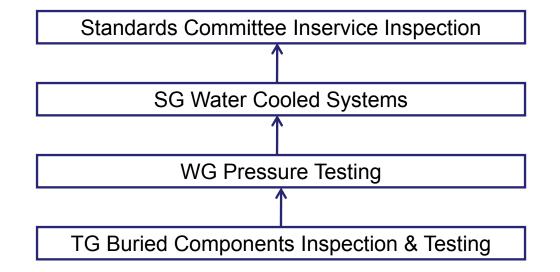


Committee Groups Relevant to Buried Components

- TG Buried Component Inspection & Testing
- TG Evaluation Procedures for Degraded Buried Piping
- WG Pressure Testing
- Special WG Nuclear Plant Aging Management
- SG Water Cooled Systems
- SG Nondestructive Examination
- SG Industry Experience for New Plants



TG BCIT Direct Reporting Hierarchy





Current Section XI Rules

- IWA-5244, Buried Component Leakage Tests
- Code Case N-776, Ground Surface Examination Program
- Code Case N-xxx, Evaluation of Metallic Buried Piping



TG BCIT – Genesis

- ASME Internal Code Activities
- Increased Stakeholder Concerns
- ASME / Regulatory Interactions
- Multitude of Industry Groups and Actions



TG BCIT – Recent Timeline

- November 2010
 - \rightarrow Approved by Executive Committee
- January 31, 2011
 - → Inaugural Task Group Meeting
- May 9, 2011
 - \rightarrow Second Meeting Scheduled



TG BCIT – Charter

The Task Group is formed to assess current industry status, ۲ activities, and direction relative to buried component failures, testing, and inspections. The Task Group is to review current ASME Section XI rules and compare them to the current industry directions in order to make recommendations to the committee for consideration of what may be appropriate to codify and how best to accomplish this. Considerations will be given to commission letters and activities, operating experience, the Buried Piping Integrity Group, and industry activity through organizations such as NEI, EPRI, NACE, and INPO. Also, current endorsed guidelines such as NEI07-07 Groundwater Protection Initiative and NEI09-14 Management of Buried Piping Integrity will be considered for aspects that warrant codification. Finally, inspection methods and techniques, current and under development, will be considered for possible impact on and inclusion in Section XI requirements.



TG BCIT – Goals

- Consider All Stakeholders
- Evaluate the Safety and Functional Impact of Recent Operating Experience
- Compile all Industry Group Activities and Guides
- Assess and Support Inspection Technique Development
- Codify Best Practices
- Publish a Practical, Manageable set of Technically Sound Rules for Regulatory Endorsement



TG BCIT – Scope

- Under Development
- Considerations
 - Structural and Leakage Integrity
 - Piping & Components
 - Buried and Underground
 - Component Classifications



TG BCIT – Agenda Topics

- Programmatic
- Inspection & Testing
- Mitigation, Repair, Replacement
- Design and New Plants



TG BCIT – Status

- Finalizing Membership
- Framing Scope of Considerations
- Identifying Initial Action Items
- Integrating with Other Industry Groups



Summary

- Strengthening ASME Standards relative to Buried Component Inspection
- Consolidating Industry Activities
- Enabling Clear Requirements and Consistent Fleet Implementation

