

TH22 Buried Piping and High Density Polyethylene Piping

A joint panel session will be held by the Division of Component Integrity (DCI) and Division of Engineering (DE), co-chaired by Michele G. Evans, Director of DCI and Patrick L. Hiland, Director of DE. This session will address two topics, Buried Piping and High Density Polyethylene Piping. Buried piping is subject to corrosion which can lead to leaks that release radioactive material to the environment. Several recent events have generated significant stakeholder interest. The USNRC staff evaluated the safety significance of buried piping degradation. The nuclear industry initiative to address degradation of buried piping has a goal of reducing the incidence of buried piping leakage. In a separate effort involving service water piping, the staff will also address its recent approval of two relief requests on the use of buried high density polyethylene (HDPE) piping as a replacement to degraded carbon steel piping in nuclear safety-related Class 3 applications. The ASME Code Case N-755 on buried HDPE piping has not yet been endorsed by the USNRC since issues have yet to be resolved concerning design, material, fabrication, and examination. The issues are being reviewed by the various ASME Code working groups and the resolution is currently in progress.

Session Co-Chairs: Michele Evans, Director, Division of Component Integrity,
NRC/NRR

Patrick Hiland, Director, Division of Engineering, NRC/NRR

Speakers/Panelists:

Buried Piping Activities

Presentation View

Handout View

Robert Hardies, Senior Level Advisor for Materials Engineering, NRC/NRR

Industry's Buried Piping Integrity Initiative

Presentation View

Handout View

James Riley, Principal Engineer, Nuclear Energy Institute

High Density Polyethylene Piping

Presentation View

Handout View

Kamal Manoly, Senior Level Advisor for Structural Mechanics, NRC/NRR

Buried HDPE Piping for Safety-Related Applications

Presentation View

Handout View

George Antaki, Chief Engineer, Becht Nuclear Services

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