

Underground Piping and Tanks Integrity Initiative

Maria Korsnick, Chief Nuclear Officer
Constellation Energy Nuclear Group
October 4, 2010

History: NEI Activities

- Groundwater Protection Initiative approved in May 2006
 - Objective:

“improve the management of situations involving inadvertent radiological releases that get into the groundwater, and to enhance the trust and confidence on the part of local communities, States, the NRC and the public in the nuclear industry’s commitment to a high standard of public radiation safety and protection of the environment”
 - Scope: all systems, structures and processes that can be sources of leakage of licensed material
 - Addresses assessment, monitoring, remediation, record keeping, and communication

History: NEI Activities

- Buried Piping Integrity Initiative approved in November 2009
 - Goal:
“provide reasonable assurance of structural and leakage integrity of all buried piping with special emphasis on piping that contains radioactive materials”
 - Scope: all buried piping on site that is in direct contact with the soil
 - Addresses assessment, inspection, and asset management

History: NEI Activities

- Buried Piping Integrity Initiative Actions
 - Procedures and oversight by June 30, 2010
 - Risk Ranking by December 31, 2010
 - Inspection Plan by June 30, 2011
 - Plan implementation
 - Start by December 31, 2011
 - Complete piping containing radioactive material by June 30, 2013
 - Asset Management Plan by December 31, 2013

History: NEI Activities

- Buried Piping Integrity Initiative and the Ground Water Protection Initiative work together
 - Monitoring
 - Proactive assessment and management
 - Share operating experience
 - Drive inspection and analysis technology improvements

Initiative Revision

- Operating experience
 - Degradation of piping in vaults and tunnels can occur
 - VY leak came from piping in a vault
 - Buried Piping Integrity Initiative applies to piping in direct contact with the soil
 - Initiative does not address tanks

Expansion of Initiative Scope

- Revised Initiative approved by NSIAC in September 2010
- Added
 - Underground piping and tanks whether or not they are in direct contact with the soil if they are outside of buildings and
 - Contain licensed radioactive material or
 - Are safety related
- Titled the revised initiative, “Underground Piping and Tank Integrity Initiative”