Containment Functions, Requirements, and Capabilities



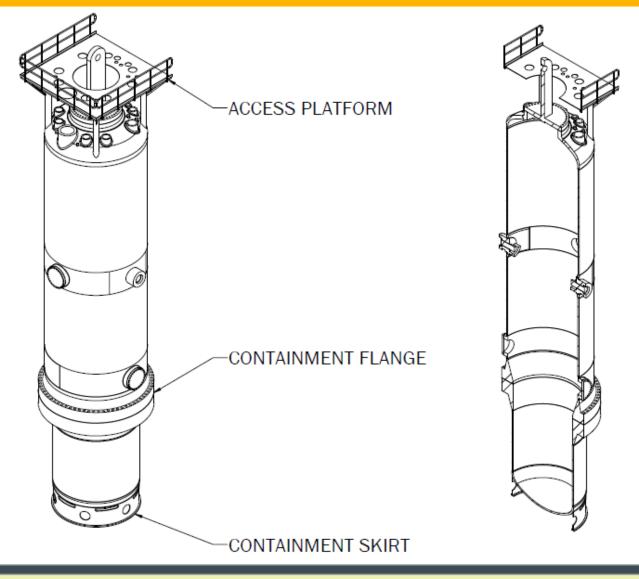
Maurice LaFountain Primary Systems Supervisor

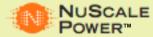
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Background





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Background

- Metal containment vessel is a substantially different design from the containment structures deployed in the US PWR fleet
- Metal containment design is included in ASME Section III
 - Subsection NE of Section III of the ASME Boiler and Pressure
 Vessel Code governs the design of metal containment vessels
- Modification of Code Case N-741 is necessary to expand the use of duplex stainless steel to class MC components



Issues

- Use of containment vessel material requires NRC endorsement of ASME Code Case.
- Some NRC requirements, guidance, and industry codes and standards are not wholly applicable to this submerged, metal containment design.



Pre-Application Outcomes

- Request NRC endorsement of modified Code Case N-741
- Familiarize NRC staff with containment functional design
- Obtain feedback on applicability of associated requirements and guidance



Pre-Application Engagement

- Presentation describing the unique features and functional design of the containment
- Letter providing background on ASME Code Case for containment vessel material
- Gap analysis report to address applicability of requirements and guidance

