

Risk-Informed Inservice Inspection

Section XI, Appendix R
April 17, 2018

Original Risk-Informed Application

- In-service Inspection: RG 1.178
- EPRI method based code case, including PRA quality, approved – could simply be made part of Appendix R
- WCAP method based code case review abandoned
- All issues that caused WCAP method code case review to be abandoned must be revived and resolved.
- Rather than repeating EPRI method review, better to simply complete WCAP code case review then combine in Appendix R
- Completing WCAP code case review may require re-visiting entire methodology

Risk-Informed In-service Inspections

- WCAP methodology needs some clarification
 - All degradation mechanism in one weld versus every weld calculated
 - Better definition of a segment
 - Crediting of non-ISI inspections as ISI inspections (e.g., FAQ)
 - Overwhelming of relative importance measures with a few very high estimated risk welds.
 - Quality of the PRA when using the relative importance measures
 - Other?

Risk-Informed In-service Inspections

- WCAP methodology needs some clarification
 - PFM calculations used to estimate frequency for importance measures and for change in risk
 - Applicability of newer PFM calculations
 - Consistency with other applications that use PFM
 - Other?