

MRP-227-A Action Item and Primary Link Issues

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Action Item 1

- Licensees responding to RAI's using MRP 2013-025 guidance
- Responses to both cold work and core design questions have generally been satisfactory
- Expect closure with minimal remaining technical issues
- Some responses to RAI on cold worked components have been delayed due to time required to find fabrication info



Action Item 1 –

- MRP 2013-025 provides sufficient guidance
- Item 2 - Plant-specific values or range for the following items shall be provided.
 - active fuel to UCP/FAP distance;
 - average core power density,
 - heat generation figure merit
- Example, “The average core power density for Plant X has been $\leq 97 \text{ Watts/cm}^3$ for its entire operating history”



Action Item 1 - Primary Link Issues

- New sensitivity studies performed by Westinghouse showed irradiation embrittlement (IE) screening criteria may be exceeded in upper core plate (UCP) in Westinghouse units and fuel alignment plate (FAP) in CE units.
- For UCP the current “Primary” link is to the CRGT lower flange which is not susceptible to IE.
- Similarly, for FAP in CE units, a suitable “Primary” link should be selected.
- Identify “Primary” links for UCP and FAP which have greater susceptibility to IE and fatigue

Action Item 7 – Primary Link Issues

- Licensees applying screening approach for TE using plant-specific materials data
- Staff developed interim criteria for TE screening adjusting current guidance for irradiation (ML14072A012)
- Screening criteria eliminate need for detailed functionality analysis for some plants
- If TE screened out, “Primary” link with higher susceptibility to IE and IASCC needed for lower support columns

