

From: Allen Fetter
Sent: Wednesday, March 6, 2024 10:23 AM
To: Schiele, Raymond Joseph; Klein, Spencer Paul
Cc: ClinchRiver-CPSafDocsPEM Resource; Sean Gallagher; Greg Cranston; Michelle Hayes
Subject: Initial Readiness Assessment Observations on draft PSAR Section 5.2 (Phase 6) - draft Clinch River CP application
Attachments: Initial Observations PSAR Section 5.2_Readiness Assessment_Phase 6.pdf

Good Morning,

Attached are initial NRC staff observations on draft PSAR Section 5.2 of Chapter 5 “Reactor Coolant System and Connected Systems”, that staff viewed in TVA’s electronic reading room as part of Phase 6 of the Readiness Assessment of the draft Clinch River CP application.

After all six phases of the Readiness Assessment are completed, NRC will transmit, via letter, a compilation of all final Readiness Observations on the Clinch River CP PSAR chapters and sections. The nomenclature “initial” is being used to account for potential TVA updates to the PSAR before the end of the Readiness Assessment.

If TVA makes any future updates to the draft PSAR chapters and sections for follow up observations by NRC staff, please contact me, Greg Cranston or Sean Gallagher.

Thanks,

Allen H. Fetter, Senior Project Manager
U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Division of New and Renewed Licenses
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Initial Readiness Assessment Observationsⁱ on draft PSAR
 Chapter 5, Reactor Coolant System and Connected Systems, Section 5.2,
 Reactor Coolant Pressure Boundary Integrity,
 Clinch River CP application

March 6, 2024

Basis for Observation/Comment	Readiness Assessment Observations
Regulatory Guides 1.84, 1.147 and 1.192	<p>Section 5.2.1.2</p> <p>The applicant states that Table 5.2-1, “Applicable Code Cases for ASME BPVC Components,” lists the specific Code Cases endorsed in RG 1.84 that are applied to BWRX-300 ASME BPVC, Division 1, Section III components. An additional statement should be added that the identified Code Cases listed are subject to the applicable conditions specified in Table 2 of RG 1.84.</p> <p>Additional statements should also be added for RG 1.147 and RG 1.192 which state that Code Cases used and listed in Table 2 of RG 1.147 and RG 1.192 are subject to the applicable conditions established in the RG</p>
Important practice for ensuring integrity and performance of a welds (lessons learned from previous design reviews)	<p>Section 5.2.3.3.2</p> <p>This section should have a paragraph on welding of ferritic steels and identifying and describing post weld heat treatments and their time/temperature.</p>

ⁱ Input provided by NRR/DNRL/NPHP staff.