

Oconee SLRA: Breakout Questions

SLRA Section B2.1.34, "Inspection of Water-Control Structures Associated with Nuclear Power Plants" AMP
TRP: 047

Question Number	SLRA Section	SLRA Page	Background / Issue (As applicable/needed)	Discussion Question / Request
1	Table 3.5.1	3-1340	Item 3.5.1-060 claims to be consistent with NUREG-2191, and manages Loss of material (spalling, scaling) and cracking due to freeze-thaw. However, the staff could not find the Table 2 items associated with this Table 1 item.	Explain why Table 2 items associated with this Table 1 item are not provided. If determined to be an error or omission, correct SLRA accordingly or provide corresponding Table 2 items.
2	B2.1.34	B-235	SLRA provides enhancements 1, 2, and 3 to include preventive actions to ensure the structural bolting integrity. However, it does not appear that SLRA includes an enhancement of preventative actions for coating material selection discussed in Section 2 of Research Council for Structural Connections.	Clarify whether enhancements for preventive actions need to include coating material selection.
3	B2.1.34	B-236	AMP enhancement 5 is related to sliding surfaces for Element 3. However, enhancement no. 5 also establishes acceptance criteria for sliding surface.	Clarify whether enhancement 5 should be related to both Elements 3 and 6.
4	B2.1.34 Table 3.5.2-23	B-238 3-1455	AMP enhancement 14 seems to include two separate components (piles and sheeting). The staff understands that sheet piles are located at the exterior of the condenser circulating water intake structure, and sheet piles are included as Table 2 AMR line item in Table 3.5.2-	1. Clarify where the sheeting is used and how their aging effects are managed. 2. Clarify which Tables 1 and 2 line items are associated with the sheeting.

			23. It is not clear to the staff where the sheeting is used.	
5	Table 2.4.4-1 Table 3.5.2-4.	2-303 3-1382	During the on-site audit, the staff observed that the Keowee powerhouse structure was covered with metal siding on the exterior, however, metal siding appears not to be part of the AMR review in Tables 2.4.4-1 and 3.5.2-4.	1. Clarify if metal siding is subject to aging management review and will be managed during SPO for Keowee powerhouse, and if so, how and where is it addressed in the SLRA. 2. Confirm if metal siding was included in the corresponding Tables 1 and 2 for other structures.
6	B2.1.24 Table 2.5.2-4	B-234 3-1386 thru 3-1389	For the Penstock, Power Tunnels, Spillway, and Intake structures, the staff noticed that aging effects of bolting, concrete, and steel are managed by both the FERC Inspection programs for the Keowee Hydro Station and the Inspection of Water-Control Structures AMP. The staff needs additional clarification regarding the differences and limitations on scope of inspection of each particular program.	1. Explain the rationale and difference in aging management scope of these two AMPs for the Penstock, Power Tunnels, Spillway, and Intake structures, and how it is determined. 2. How do inspectors know which components are under their responsibilities to ensure that no inspection for these components will be missed?
7	2.4.2	2-300	SLRA states the breaker vault is supported by the powerhouse operating floor, and its walls and roof are constructed of thick concrete. However, the staff found during the onsite audit that inside of the breaker vault (e.g. interior concrete, ceiling) and equipment	Discuss what actions/procedures will be taken to ensure that aging effects for inside of the breaker vault and its equipment supports will be adequately

			supports are not being inspected for aging management.	managed, and how it is or will be addressed in the SLRA.
8	N/A	N/A	During the onsite audit, the staff noticed water infiltration in the area of the draft tube, and calcium leaching on the powerhouse basement wall. It is not clear if these aging mechanisms/effects were identified in the previous inspections.	Clarify whether these aging mechanisms/effects are identified in the previous ARs (If yes, provide ARs on ePortal) and what corrective actions have been taken.
9	Table 3.5.2-19	3-1436	SLRA Table 3.5.2-19, indicates that a steel piping tunnel from the condenser circulating water discharge pipe system exposed to groundwater/soil environment will be managed for loss of material by the Inspection of Water-Control Structures AMP. The SLRA cited Note F to indicate that this material is not in the GALL-SLR.	Explain how the steel piping tunnel can be properly managed by the Inspection of Water-Control Structures AMP.
10	B.2.1.34	B-234	SLRA states that structural components and commodities monitored under this program include sluice gates. However, the staff could not locate the associated AMR items, it is not clear whether sluice gates are within the scope of SLR and subject to AMR.	Clarify whether sluice gates are within the scope of SLR and subject to AMR. If yes, explain how their aging effects are adequately managed during the SPEO?