

Oconee SLRA: Breakout Questions

SLRA Section 4.3.2, "Class 1 Component Fatigue Evaluations"

TRP: 143.1

Question Number	SLRA Section	SLRA Page	Background / Issue (As applicable/needed)	Discussion Question / Request
1	4.3.2.2	4-57	<p>SLRA Section 4.3.2.2 addresses the fatigue TLAA for the reactor vessel internals (RVIs) as part of the Class 1 metal fatigue evaluations. The applicant indicated that the fatigue analysis addressed in the section is the low-cycle (design transient) fatigue analysis for the replacement bolts that fasten the lower end of the reactor vessel thermal shield to the lower grid assembly.</p> <p>However, SLRA Section 4.3.2.2 does not address a low-cycle fatigue analysis for the other RVI components. In contrast, the following reference provides the staff-approved, existing fatigue analyses for the applicant's RVI components for 60 years of operation (Reference: BAW-2248A, Demonstration of the Management of Aging Effects for the Reactor Vessel Internals, March 2000). Specifically, Section 3.4 of the staff's safety evaluation for BAW-2248A (as contained in BAW-2248A) indicates that the BWA-2248A report (Section 4.5) includes the low-cycle fatigue TLAA for the RVI components.</p> <p>In addition, License Renewal Action Item 11 in the staff's safety evaluation for the</p>	<p>1. Given that the License Renewal Action Item 11 of the safety evaluation for the BAW-2248A report addresses the low-cycle fatigue TLAA for all the RVI components, justify why SLRA Section 4.3.2.2 does not identify the fatigue TLAA and its disposition for the RVI components other than the thermal shield replacement bolts. If it cannot be justified, identify the fatigue TLAA disposition for the RVI components (including the thermal shield bolts), consistent with the license renewal action item.</p>

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			<p>BAW-2248A report specifies that a license renewal applicant must address the plant-specific plans to continue monitoring and tracking design transient occurrences for the RVI components, which include the thermal shield replacement bolts and the other RAI components.</p> <p>As discussed above, SLRA Section 4.3.2.2 only addresses the low-cycle fatigue TLAA for the thermal shield replacement bolts, excluding the fatigue TLAA for the other RVI components. Therefore, the section is not consistent with Action Item 11 of the BAW- 2248A report, which is applied to all the RVI components.</p>	