

St. Lucie SLRA: Breakout Questions

SLRA Section AMP B.2.3.28: Internal Coatings/Linings for In-Scope Piping, Piping Components, Heat Exchangers, and Tanks
TRP: 15

Technical Reviewer	Allik	12/15/2021
Technical Branch Chief	Bloom	12/15/2021
Breakout Session	<i>Date/Time</i>	<i>To be filled in by PM</i>

Applicant Staff	NRC staff
<i>To be filled out by PM during breakout</i>	

Question Number	SLRA Section	SLRA Page	Background / Issue (As applicable/needed)	Discussion Question / Request	Outcome of Discussion
1	B.2.3.28	B-221	<p>GALL-SLR Report AMP XI.M42 (as modified by SLR-ISG-2021-02-MECHANICAL) states opportunistic inspections, in lieu of periodic inspections, are an acceptable alternative for buried internally lined/coated fire water system piping provided certain conditions are met. One of these conditions is plant-specific operating experience is acceptable (i.e., no leaks due to age-related degradation of representative internal coatings/linings used in buried in-scope fire water system components).</p> <p>SLRA Section B.2.3.28 states “[o]ppportunistic inspections, in lieu of</p>	<p>The staff requests a discussion with respect to why concrete linings in the fire protection system are not representative of concrete linings in the intake cooling water system (where leaks occurred due to degradation of the cement liner).</p>	

			<p>periodic inspections, will be performed for the buried concrete lined fire protection piping... PSL does not have plant-specific OE [operating experience] regarding buried fire main leaks due to age-related degradation in the coated/lined portions of the piping.”</p> <p>During its review of SLRA Section B.2.3.27, “Buried and Underground Piping and Tanks,” (specifically operating experience example No. 2) the staff noted (a) thru-wall degradation and pitted areas in the intake cooling water system; and (b) a root-cause analysis determined the failure was due to the damaged cement liner and failed internal coating that exceeded service life.</p>		
2	Table 3.2-1	3.2-32	<p>SLRA Table 3.2-1 (item 073) states “Not applicable. The Engineered Safety Features Systems do not include any material piping, piping components, heat exchangers, or tanks with internal coatings/linings exposed to closed-cycle cooling water, raw water, treated water, treated borated water, or condensation.”</p> <p>SLRA Table 3.2.2-2 states the Unit 1 refueling water storage tank will be managed for loss of coating integrity.</p>	The staff requests a discussion with respect to whether the engineered safety features systems include internally coated/lined components.	
3	N/A	N/A	Unit 1 UFSAR Table 9.2-17, “Design Data For Steam Generator Blowdown Cooling System,” states the Open Blowdown Heat Exchanger Channel is carbon steel with w/ epoxy lining.	The staff requests a discussion with respect to whether (a) the subject components are within the scope of SLR; and (b) if so, how they are accounted for in the SLRA.	

			Unit 2 UFSAR Table 10.4-1, "Component Design Parameters," states the Steam Generator Blowdown System Monitor-Storage Tanks are carbon steel w/ epoxy lining.		
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