APPENDIX B, TABLE B.2.8 DISPOSITION OF NEI COMMENTS ON CHAPTER X OF GALL REPORT

This Page Intentionally Left Blank

Table B.2.8: Disposition of NEI Comments on Chapter X of GALL Report

Comment Number	Item Number	Comment/Proposed Change	Basis For Comment	NRC Disposition
G X-1	B.3.6 GALL X	Revise the title of the Chapter to be "Chapter X Programs that Support TLAAs."	The programs identified in this section are not necessarily in support of Option (iii). Cycle counting and EQ are programs that can also be used to confirm design basis assumptions in support of Options (i and ii).	See NRC disposition of NEI comment S 4.3-9 in this Appendix B, Table B.2.13. Options (i) and (ii) calculations are performed prior to the period of extended operation to verify that the fatigue analysis remains valid. The intent of cycle counting in option (iii) is to monitor the usage during the extended period of operation to assure that the CUF does not exceed its allowable limit. The GALL report was not revised to
G X.M1-1	B.3.6 GALL X.M1	GALL X.M1 Metal Fatigue of Reactor Coolant Pressure boundary intermingles thermal cycle counting with the addressing of reactor water effects. Delete the information in X.M1 associated with reactor water effects. Specifically: Program Description: Delete the second paragraph and the reference in the third paragraph to environmental effects. Evaluation and Technical basis: Adjust the numbered topics as follows: (2) Preventive Actions: Delete the phrase "and considering the effect of the reactor water environment, as described under program description above."	The thermal cycle count method of managing the existing fatigue design basis has been found acceptable for renewal and can be used by the majority of the industry. When reworded, the attributes in X.M1 can clearly be referenced by renewal applicants beginning neartem. Addressing reactor water effects is less clear and has been done differently by the initial applicants. Additionally, it is the subject of ongoing industry and NRC efforts (Reference Christopher I. Grimes July 18, 2000 letter, Summary of Meeting with the Nuclear Energy Institute (NEI) to Discuss Fatigue of Metal Components for 60-year Plant	address this comment. The reference to Appendix L in the AMP is as a consequence of outstanding technical issues regarding Appendix L that require resolution. This is one area where further staff review will be required if an applicant proposes the use of Appendix L. The acceptable way to evaluate environmental effects of fatigue is by calculation of CUF. The GALL report was not revised to address this comment.

Table B.2.8: Disposition of NEI Comments on Chapter X of GALL Report (continued)

Comment	Item			
Number	Number	Comment/Proposed Change	Basis For Comment	NRC Disposition
G X.M1-1		(3) In the third sentence, delete	Life, Adams Accession No.	
(cont.)		"local," revise "of the plant transient"	ML003733789). Given the current	
		to "of plant transients" and delete	state of awareness on the ways to	
		"for each transient." (4) Detection of	address reactor water effects, the	
		Aging Effects: Reword to "not	near-term applicants can not use	
		applicable for a preventive	X.M1 the way it is currently	
		management program." (5)	structured. Since the GALL report	
		Monitoring and Trending: Reword to	was designed to create materials	
		"The program should be provided	that can be referenced by renewal	
		for periodic assessment of actual	applicants, removing the information	
		accumulated cycles versus the	associated with reactor water effects	
		design calculation values."	from the GALL and maintaining	
		(6) Acceptance Criteria: Delete the	them only in the SRP-LR until a	
		phrase "considering environmental	future time better satisfies this	
		fatigue effects." (7) Corrective	objective.	
		Actions: Replace the second	Item (3): For fatigue monitoring	
		sentence with the following,	programs, the actual transient	
		"Acceptable corrective actions may	history may be evaluated, not each	
		include a more rigorous analysis of	specific transient.	
		the component to demonstrate that	Item (7): Appendix L permits a	
		the design code limit will not be	licensee to demonstrate that a	
		exceeded, inspection coupled with	component is acceptable with	
		appropriate flaw tolerance	regard to cumulative fatigue effects	
		assessment, repair, or replacement	by performing a flaw tolerance	
		of the component. ASME Section XI	evaluation of the component as an	
		Appendix L provides methods and	alternative to meeting the fatigue	
		criteria for performing these	requirements of ASME Section III.	
		activities." Delete the last sentence.	The NRC has reviewed Appendix L	
		Operating Experience: In the last	and determined that its use is	
		sentence, replace the phrase "in	generally acceptable. Licensees	
		selecting the monitored locations"	should be aware that the ASME	
		with "by the program." 3.	Code is considering revisions to	
		References: Delete the three	Appendix L concerned with flaw	
		references. Add a reference to	aspect ratio and the influence of	
		NUREG-1723, Safety Evaluation	reactor water environmental effects	
		Report Related to the License	on both fatigue usage and crack	

Table B.2.8: Disposition of NEI Comments on Chapter X of GALL Report (continued)

Comment	Item			
Number	Number	Comment/Proposed Change	Basis For Comment	NRC Disposition
G X.M1-1 (Cont.)		Renewal of Oconee Nuclear Station Units 1, 2 and 3 where the thermal cycle count method of fatigue management was accepted by the NRC.	growth evaluations.	
G X.S1-1	B.3.6 GALL X.S1	Move this program description to Chapter XI.	The activities described in X.S1 constitute an aging management program and do not address a TLAA.	See NRC disposition of NEI comment S 4.5-1 in this Appendix B, Table B.2.13. This merely provides one way that an applicant can choose to perform its TLAA in accordance with 10 CFR 54.21(c)(1)(iii). The attributes addressed in X.S1 are related to the time-dependent characteristics of the pre-stressing forces in prestressed concrete containments as applicable to the extended period of operation. The GALL report was not revised to address this comment.

Table B.2.8: Disposition of NEI Comments on Chapter X of GALL Report (continued)

Comment	Item			
Number	Number	Comment/Proposed Change	Basis For Comment	NRC Disposition
G X.S1-2	B.3.6 GALL X.S1	Clarify regulatory meaning of the "trend line."	Under Program Description, last sentence in second paragraph begins "The goal would be to keep the trend line above the PLL," because "if the trend line crosses the PLL, the existing prestress in the containment could go below the MRV soon after the inspection." If the extension of the trend line crosses the PLL at some point in the future, then the second part of the sentence about not meeting the criteria "soon after the inspection" would not necessarily be true. Therefore, "trend line" needs to be clarified in this case as to whether it means the trend line only including the last data point, or the extension of the existing data trend line.	SRP, GALL and 10 CFR 50.55a(b)(2)(ix)(B) or 10 CFR 50.55a(b)(2)(viii)(B), means the