Changes Proposed?	New Item?	Deleted Item?	Chapter	Table	Item	Location SRP	ISG	New (N), Modified (M), Deleted (D)	Item	SRP Item (Table, ID)	Structure and/or Component	Material	Environment	Aging Effect/Mechanism	Aging Management Program (AMP)/TLAA	Further Evaluation	Type	Previous Item	New Related	Comments	Technical Basis for Change	SRP-SLR AMR and Further Evaluation Section Links	Notes	Identifier from Technical Issues Database	Proposed Change	Basis for Change	Point of Contact	Fully Dispositioned?
Yes	No	No	II	A1	C-07	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A1.C-07	II.S-1, 2	Concrete: foundation; subfoundation	Concrete; porous concrete	Water – flowing	Reduction of foundation strength and cracking due to differential settlement and	AMP XI.S6, "Structures Monitoring" [To be existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation]	Yes, for existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation]	PWR		II.A1-6(C-07)									
No	No	No	II	A1	C-10	SRP Tables II.1-1 Through II.6-1 Updates			II.A1.C-10	II.S-1, 32	Prestressing system: tendons; anchorage components	Steel	Air – indoor, uncontrolled, air – outdoor	Loss of material due to corrosion	AMP XI.S1, "ASME Section XI, Subsection IWL"	No	PWR		II.A1-15(C-10)									
Yes	No	No	II	A1	C-11	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A1.C-11	II.S-1, 8	Prestressing system: tendons	Steel	Air – indoor, uncontrolled, air – outdoor	Loss of prestress due to relaxation; shrinkage; creep; elevated temperature	[LAA, BWR-CR Element 4.8, "Concrete Containment Tendon Prestress" Loss of tendon prestress is time-limited aging analysis (TLAA) to be evaluated for the period of extended	No	PWR		II.A1-6(C-11)									
No	No	No	II	A1	CP-100	SRP Tables II.1-1 Through II.6-1 Updates			II.A1.CP-100	II.S-1, 24	Concrete (inaccessible areas): dome; wall; basemat	Concrete	Air – indoor, uncontrolled, air – outdoor; ground	Increase in porosity and permeability; cracking; loss of material (spalling, scaling)	AMP XI.S2, "ASME Section XI, Subsection IWL," and supplemented as necessary, by AMP XI.S6, "Structures Monitoring"	No	PWR	C-03	II.A1-4(C-03)	Chap II EP edit - 7/13/2014								
Yes	No	No	II	A1	CP-101	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A1.CP-101	II.S-1, 1	Concrete: dome; wall; basemat; ring girders; buttresses	Concrete	Soil	Cracking and distortion due to increased stress levels from settlement	AMP XI.S2, "ASME Section XI, Subsection IWL," and supplemented as necessary, by AMP XI.S6, "Structures Monitoring" [To be existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation]	No	PWR	C-37	II.A1-5(C-37)	Chap II EP edit - 7/13/2014								
Yes	No	No	II	A1	CP-102	SRP Tables II.1-1 Through II.6-1 Updates			II.A1.CP-102	II.S-1, 14	Concrete (inaccessible areas): dome; wall; basemat; ring girders; buttresses	Concrete	Water – flowing	Increase in porosity and permeability; loss of strength due to leaching of calcium	AMP XI.S2, "ASME Section XI, Subsection IWL," and supplemented as necessary, by AMP XI.S6, "Structures Monitoring" [To be existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation]	No	PWR	C-02	II.A1-6(C-02)									
Yes	No	No	II	A1	CP-147	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A1.CP-147	II.S-1, 11	Concrete (inaccessible areas): dome; wall; basemat	Concrete	Air – outdoor; ground water/soil	Loss of material (spalling, scaling) and cracking due to freeze-thaw	AMP XI.S2, "ASME Section XI, Subsection IWL," and supplemented as necessary, by AMP XI.S6, "Structures Monitoring" [To be existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation]	No	PWR	C-01	II.A1-2(C-01)									
No	No	No	II	A1	CP-31	SRP Tables II.1-1 Through II.6-1 Updates			II.A1.CP-31	II.S-1, 18	Concrete (inaccessible areas): dome; wall; basemat; ring girders	Concrete	Air – outdoor	Loss of material (spalling, scaling) and cracking due to freeze-thaw	AMP XI.S2, "ASME Section XI, Subsection IWL"	No	PWR	C-01	II.A1-2(C-01)									
No	No	No	II	A1	CP-32	SRP Tables II.1-1 Through II.6-1 Updates			II.A1.CP-32	II.S-1, 20	Concrete (inaccessible areas): dome; wall; basemat; ring girders	Concrete	Water – flowing	Increase in porosity and permeability; loss of strength due to leaching of calcium	AMP XI.S2, "ASME Section XI, Subsection IWL"	No	PWR	C-02	II.A1-6(C-02)									
No	No	No	II	A1	CP-33	SRP Tables II.1-1 Through II.6-1 Updates			II.A1.CP-33	II.S-1, 19	Concrete (inaccessible areas): dome; wall; basemat; ring girders	Concrete	Any environment	Cracking due to expansion from reaction with aggregates	AMP XI.S2, "ASME Section XI, Subsection IWL"	No	PWR	C-04	II.A1-3(C-04)									
Yes	No	No	II	A1	CP-34	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A1.CP-34	II.S-1, 3	Concrete: dome; wall; basemat; ring girders; buttresses	Concrete	Air – indoor, uncontrolled, air – outdoor	Reduction of strength and modulus due to elevated temperature (>150°F	Plant-specific aging management program [The implementation of XI.CP-29 (Do not) ASME Section XI, Subsection IWL would not] [The Applicant is to provide a description, and justification, of the aging management program for concrete containment structures that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	Yes, [The Applicant is to provide a description, and justification, of the aging management program for concrete containment structures that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	PWR		C-05	II.A1-1(C-06)									
No	No	No	II	A1	CP-35	SRP Tables II.1-1 Through II.6-1 Updates			II.A1.CP-35	II.S-1, 5	Steel elements: accessible areas; liner; liner anchors;	Steel	Air – indoor, uncontrolled	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J".	No	PWR	C-09	II.A1-11(C-09)									
No	No	No	II	A1	CP-87	SRP Tables II.1-1 Through II.6-1 Updates			II.A1.CP-87	II.S-1, 12	Concrete (inaccessible areas): dome; wall; basemat	Concrete	Any environment	Cracking due to expansion from reaction with aggregates	Plant-specific aging management program [Further evaluation is recommended if plant-specific aging management program is used to manage the aging effects identified in this item. The Applicant is to provide a description, and justification, of the aging management program for concrete containment structures that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	Yes, [Further evaluation is recommended if plant-specific aging management program is used to manage the aging effects identified in this item. The Applicant is to provide a description, and justification, of the aging management program for concrete containment structures that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	PWR		C-04	II.A1-3(C-04)									
Yes	No	No	II	A1	CP-88	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A1.CP-88	II.S-1, 21	Concrete (accessible areas): dome; wall; basemat; ring girders;	Concrete	Air – indoor, uncontrolled, air – outdoor	Cracking; loss of bond; and loss of material (spalling, scaling) and cracking due	AMP XI.S2, "ASME Section XI, Subsection IWL"	No	PWR	C-05	II.A1-7(C-05)									
No	No	No	II	A1	CP-97	SRP Tables II.1-1 Through II.6-1 Updates			II.A1.CP-97	II.S-1, 16	Concrete (accessible areas): dome; wall; basemat; ring girders;	Concrete	Air – indoor, uncontrolled, air – outdoor	Increase in porosity and permeability; cracking; loss of material (spalling, scaling	AMP XI.S2, "ASME Section XI, Subsection IWL"	No	PWR	C-03	II.A1-4(C-03)									
Yes	No	No	II	A1	CP-97	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A1.CP-97	II.S-1, 23	Concrete (accessible areas): dome; wall; basemat;	Concrete; steel	Air – indoor, uncontrolled; Air – outdoor	Cracking; loss of bond; and loss of material (spalling, scaling) due to corrosion of	AMP XI.S2, "ASME Section XI, Subsection IWL," and supplemented as necessary, by AMP XI.S6, "Structures Monitoring"	No	PWR	C-05	II.A1-7(C-05)	Chap II EP edit - 7/13/2014 and AMP EP 9/6/2014								
No	No	No	II	A1	CP-98	SRP Tables II.1-1 Through II.6-1 Updates			II.A1.CP-98	II.S-1, 5	Steel elements: accessible areas; liner; liner anchors;	Steel	Air – indoor, uncontrolled	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J".	No	PWR	C-09	II.A1-11(C-09)									
No	No	No	II	A2	C-07	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A2.C-07	II.S-1, 2	Concrete: foundation; subfoundation	Concrete; porous concrete	Water – flowing	Reduction of foundation strength and cracking due to differential settlement and	AMP XI.S6, "Structures Monitoring" [To be existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation]	Yes, [To be existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation]	PWR		II.A2-6(C-07)									
Yes	No	No	II	A2	CP-104	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A2.CP-104	II.S-1, 12	Concrete (inaccessible areas): basemat	Concrete	Any environment	Cracking due to expansion from reaction with aggregates	Plant-specific aging management program [Further evaluation is recommended if plant-specific aging management program is used to manage the aging effects identified in this item. The Applicant is to provide a description, and justification, of the aging management program for concrete containment structures that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	Yes, [Further evaluation is recommended if plant-specific aging management program is used to manage the aging effects identified in this item. The Applicant is to provide a description, and justification, of the aging management program for concrete containment structures that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	PWR		C-06	II.A2-9(C-06)									
No	No	No	II	A2	CP-105	SRP Tables II.1-1 Through II.6-1 Updates			II.A2.CP-105	II.S-1, 20	Concrete (accessible areas): basemat	Concrete	Water – flowing	Increase in porosity and permeability; loss of strength due to leaching of calcium	AMP XI.S2, "ASME Section XI, Subsection IWL," or AMP XI.S6, "Structures Monitoring"	No	PWR	C-05	II.A2-6(C-05)									
No	No	No	II	A2	CP-35	SRP Tables II.1-1 Through II.6-1 Updates			II.A2.CP-35	II.S-1, 35	Steel elements: accessible areas; liner; liner anchors;	Steel	Air – indoor, uncontrolled	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J".	No	PWR	C-09	II.A2-9(C-09)									
No	No	No	II	A2	CP-91	SRP Tables II.1-1 Through II.6-1 Updates			II.A2.CP-91	II.S-1, 18	Concrete (accessible areas): basemat	Concrete	Air – outdoor	Loss of material (spalling, scaling) and cracking due to freeze-thaw	AMP XI.S2, "ASME Section XI, Subsection IWL," or AMP XI.S6, "Structures Monitoring"	No	PWR	C-08	II.A2-2(C-08)									
No	No	No	II	A2	CP-71	SRP Tables II.1-1 Through II.6-1 Updates			II.A2.CP-71	II.S-1, 14	Concrete (inaccessible areas): basemat	Concrete	Water – flowing	Increase in porosity and permeability; cracking; loss of material (spalling, scaling	AMP XI.S2, "ASME Section XI, Subsection IWL," or AMP XI.S6, "Structures Monitoring"	No	PWR	C-30	II.A2-6(C-30)									
No	No	No	II	A2	CP-72	SRP Tables II.1-1 Through II.6-1 Updates			II.A2.CP-72	II.S-1, 16	Concrete (accessible areas): basemat	Concrete	Ground water/soil	Increase in porosity and permeability; cracking; loss of material (spalling, scaling	AMP XI.S2, "ASME Section XI, Subsection IWL," or AMP XI.S6, "Structures Monitoring"	No	PWR	C-05	II.A2-6(C-05)	Chap II EP edit - 7/13/2014								
Yes	No	No	II	A2	CP-74	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A2.CP-74	II.S-1, 21	Concrete (accessible areas): basemat; reinforcing steel	Concrete; steel	Air – indoor, uncontrolled, air – outdoor	Cracking; loss of bond; and loss of material (spalling, scaling) due to corrosion of	AMP XI.S2, "ASME Section XI, Subsection IWL," or AMP XI.S6, "Structures Monitoring"	No	PWR	C-43	II.A2-7(C-43)									
Yes	No	No	II	A2	CP-75	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A2.CP-75	II.S-1, 23	Concrete (accessible areas): basemat; reinforcing	Concrete; steel	Air – indoor, uncontrolled; Air – outdoor	Cracking; loss of bond; and loss of material (spalling, scaling) due to corrosion of	AMP XI.S2, "ASME Section XI, Subsection IWL," or AMP XI.S6, "Structures Monitoring"	No	PWR	C-43	II.A2-7(C-43)	Chap II EP edit - 7/13/2014 and AMP EP 9/6/2014								
Yes	No	No	II	A2	CP-98	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A2.CP-98	II.S-1, 5	Steel elements: accessible areas; liner; liner anchors;	Steel	Air – indoor, uncontrolled	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J".	No	PWR	C-09	II.A2-9(C-09)									
No	No	No	II	A3	C-13	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A3.C-13	II.S-1, 9	Penetration sleeves; penetration bellows; [Steel; stainless steel]	Steel; stainless steel	Air – indoor, uncontrolled, air – outdoor	Cumulative fatigue damage due to fatigue (Only if CLB fatigue analysis exists)	[LAA, Fatigue is a time-limited aging analysis (TLAA) to be evaluated for the extended period of extended operation. See ARP-SLR Section 4.6, "Containment Liner Plate and Penetration Fatigue	No	PWR		II.A3-4(C-13)									
No	No	No	II	A3	C-16	SRP Tables II.1-1 Through II.6-1 Updates			II.A3.C-16	II.S-1, 29	Personnel airlock, equipment hatch, CRD hatch: locks, hinges and closure	Steel	Air – indoor, uncontrolled, air – outdoor	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J".	No	PWR		II.A3-6(C-16)									
No	No	No	II	A3	CP-146	SRP Tables II.1-1 Through II.6-1 Updates			II.A3.CP-146	II.S-1, 31	Pressure-retaining bolting	Steel	Air – indoor, uncontrolled, air – outdoor	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE,"	No	PWR	New Record									
No	No	No	II	A3	CP-150	SRP Tables II.1-1 Through II.6-1 Updates			II.A3.CP-150	II.S-1, 30	Pressure-retaining bolting	Any	Any environment	Loss of preload due to self-loosening	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J".	No	PWR	New Record									
Yes	No	No	II	A3	CP-152	LR-ISG-2013-01		M	II.A3.CP-152	II.S-1, 34	Service Level I coatings	Coatings	Air – indoor, uncontrolled	Loss of coating integrity due to blistering, cracking, flaking, peeling,	AMP XI.S8, "Protective Coating Monitoring and Maintenance"	No	PWR	New Record		<<Disposition: LR-ISG-2013-01 Recommended Changes>> 0318-000001	<<Disposition: LR-ISG-2013-01 Recommended Changes>> In developing these new recommendations, the staff developed	<<Disposition: LR-ISG-2013-01 Recommended Changes>> <<Basis: Conforming changes to reflect the ISG>>	<<Disposition: LR-ISG-2013-01 Recommended Changes>>	<<Disposition: LR-ISG-2013-01 Recommended Changes>>
No	No	No	II	A3	C-36	SRP Tables II.1-1 Through II.6-1 Updates			II.A3.CP-36	II.S-1, 35	Penetration sleeves	Steel; stainless steel; metal welds	Air – indoor, uncontrolled, air – outdoor	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J".	No	PWR	C-12	II.A3-1(C-12)									
No	No	No	II	A3	CP-37	SRP Tables II.1-1 Through II.6-1 Updates			II.A3.CP-37	II.S-1, 27	penetration sleeves; penetration bellows	Steel; stainless steel	Air – indoor, uncontrolled, air – outdoor	Cracking due to cyclic loading (CLB fatigue analysis does not exist)	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J"	No	PWR	C-14	II.A3-3(C-14)									
No	No	No	II	A3	CP-38	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A3.CP-38	II.S-1, 10	Penetration sleeves; penetration bellows	Stainless steel; carbon steel	Air – indoor, uncontrolled, air – outdoor	Cracking due to stress corrosion cracking	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J"	[To be existing system is revised per the action of Section 4 of report from groundwater investigations]	PWR	C-15	II.A3-2(C-15)									
Yes	No	No	II	A3	CP-39	SRP Tables II.1-1 Through II.6-1 Updates		M	II.A3.CP-39	II.S-1, 29	Personnel airlock, equipment hatch, CRD hatch: locks, hinges and closure	Steel	Air – indoor, uncontrolled, air – outdoor	Loss of leak-tightness due to mechanical wear of locks, hinges and closure	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J"	No	PWR	C-17	II.A3-5(C-17)	Chap II EP change - 7/14/2014								
No	No	No	II	A3	CP-40	SRP Tables II.1-1 Through II.6-1 Updates			II.A3.CP-40	II.S-1, 26	Window frames (caulking, flashing, and other sealants)	Elastomer; rubber and other similar	Air – indoor, uncontrolled	Loss of sealing due to wear, damage, erosion, tear, surface cracks, other	AMP XI.S1, "ASME Section XI, Subsection IWE"	No	PWR	C-18	II.A3-7(C-18)									
No	No	No	II	A3	CP-41	SRP Tables II.1-1 Through II.6-1 Updates			II.A3.CP-41	II.S-1, 33	Seals and gaskets	Elastomer; rubber and other similar	Air – indoor, uncontrolled, air – outdoor	Loss of sealing due to wear, damage, erosion, tear, surface cracks, other	AMP XI.S4, "10 CFR Part 50, Appendix J"	No	PWR	C-18	II.A3-7(C-18)									
No	No	No	II	B1.1	C-21	SRP Tables II.1-1 Through II.6-1 Updates		M	II.B1.1.C-21	II.S-1, 9	Steel elements: torus; vent line; vent header; vent line bellows;	Steel; stainless steel	Air – indoor, uncontrolled	Cumulative fatigue damage due to fatigue (Only if CLB fatigue analysis exists)	[LAA, Fatigue is a time-limited aging analysis (TLAA) to be evaluated for the extended period of extended operation. See ARP-SLR Section 4.6, "Containment Liner Plate and Penetration Fatigue	No	BWR		II.B1.1-4(C-21)									
Yes	No	No	II	B1.1	C-23	SRP Tables II.1-1 Through II.6-1 Updates		M	II.B1.1.C-23	II.S-1, 36	Steel elements: drywall head; downcomers	Steel	Air – indoor, uncontrolled	Cracking due to cyclic loading (CLB fatigue analysis does not exist); [Loss of material due to flow-accelerated corrosion]	AMP XI.S1, "ASME Section XI, Subsection IWE"	No	BWR		II.B1.1-1(C-23)									
No	No	No	II	B1.1	CP-103	SRP Tables II.1-1 Through II.6-1 Updates		M	II.B1.1.CP-103	II.S-1, 7	Steel elements: torus ring girder; downcomers;	Steel	Air – indoor, uncontrolled, treated water	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J" [Regardless of whether the plant will implement an aging management program (AMP) or a time-limited aging analysis (TLAA) to manage the aging effects for the drywall, the Applicant is to provide a description, and justification, of the aging management program for the drywall that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	Yes, [Regardless of whether the plant will implement an aging management program (AMP) or a time-limited aging analysis (TLAA) to manage the aging effects for the drywall, the Applicant is to provide a description, and justification, of the aging management program for the drywall that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	BWR		C-19	II.B1.1-1(C-19)									
No	No	No	II	B1.1	CP-43	SRP Tables II.1-1 Through II.6-1 Updates			II.B1.1.CP-43	II.S-1, 35	Steel elements: accessible areas); drywall shell, drywall support skirt	Steel	Air – indoor, uncontrolled	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J".	No	BWR	C-19	II.B1.1-1(C-19)									
No	No	No	II	B1.1	CP-44	SRP Tables II.1-1 Through II.6-1 Updates			II.B1.1.CP-44	II.S-1, 41	Steel elements: drywall support skirt	Steel	Concrete	None	None	No	BWR	New Record									
Yes	No	No	II	B1.1	CP-68	SRP Tables II.1-1 Through II.6-1 Updates		M	II.B1.1.CP-68	II.S-1, 6	Steel elements: torus shell	Steel	Air – indoor, uncontrolled, treated water	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J" [Regardless of whether the plant will implement an aging management program (AMP) or a time-limited aging analysis (TLAA) to manage the aging effects for the drywall, the Applicant is to provide a description, and justification, of the aging management program for the drywall that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	Yes, [Regardless of whether the plant will implement an aging management program (AMP) or a time-limited aging analysis (TLAA) to manage the aging effects for the drywall, the Applicant is to provide a description, and justification, of the aging management program for the drywall that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	BWR		C-19	II.B1.1-1(C-19)									
No	No	No	II	B1.1	CP-49	SRP Tables II.1-1 Through II.6-1 Updates			II.B1.1.CP-49	II.S-1, 27	Steel elements: torus; vent line; vent header; vent line bellows;	Steel; stainless steel	Air – indoor, uncontrolled	Cracking due to cyclic loading (CLB fatigue analysis does not exist)	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J"	No	BWR	C-20	II.B1.1-3(C-20)									
No	No	No	II	B1.1	CP-50	SRP Tables II.1-1 Through II.6-1 Updates			II.B1.1.CP-50	II.S-1, 39	Steel elements: vent line bellows	Stainless steel	Air – indoor, uncontrolled	Cracking due to stress corrosion cracking	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J"	No	BWR	C-22	II.B1.1-4(C-22)									
Yes	No	No	II	B1.2	C-07	SRP Tables II.1-1 Through II.6-1 Updates		M	II.B1.2.C-07	II.S-1, 2	Concrete: foundation; subfoundation	Concrete; porous concrete	Water – flowing	Reduction of foundation strength and cracking due to differential settlement and	AMP XI.S6, "Structures Monitoring" [To be existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation]	Yes, [To be existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation]	BWR		II.B1.2-7(C-07)									
No	No	No	II	B1.2	C-33	SRP Tables II.1-1 Through II.6-1 Updates		M	II.B1.2.C-33	II.S-1, 36	Steel elements: drywall head; downcomers	Steel	Air – indoor, uncontrolled	[Cracking due to cyclic loading (CLB fatigue analysis does not exist); Loss of material due to flow-accelerated corrosion]	AMP XI.S1, "ASME Section XI, Subsection IWE"	No	BWR		II.B1.2-9(C-33)									
No	No	No	II	B1.2	L-69	SRP Tables II.1-1 Through II.6-1 Updates			II.B1.2.C-69	II.S-1, 37	Steel elements: suppression chamber (torus) liner (interior	Steel; stainless steel	Air – indoor, uncontrolled, treated water	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J".	No	BWR		II.B1.2-10(C-69)									
No	No	No	II	B1.2	CP-100	SRP Tables II.1-1 Through II.6-1 Updates		M	II.B1.2.CP-100	II.S-1, 1	Concrete elements: all	Concrete	Soil	Cracking and distortion due to increased stress levels from settlement	AMP XI.S2, "ASME Section XI, Subsection IWL," [To be existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation] and AMP XI.S6, "Structures Monitoring" [To be existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation]	Yes, [To be existing system is revised per the action of Section 4 of report from groundwater investigations, then the increase is an annual (vegetation]	BWR	C-36	II.B1.2-5(C-36)	Chap II EP edit - 7/13/2014								
Yes	No	No	II	B1.2	CP-102	SRP Tables II.1-1 Through II.6-1 Updates		M	II.B1.2.CP-102	II.S-1, 16	Concrete (accessible areas): dome; wall; basemat	Concrete	Air – indoor, uncontrolled; Air – outdoor; Soil	Increase in porosity and permeability; cracking; loss of material (spalling, scaling	AMP XI.S2, "ASME Section XI, Subsection IWL," or AMP XI.S6, "Structures Monitoring"	No	BWR	C-36	II.B1.2-5(C-36)	Chap II EP edit - 7/13/2014								
No	No	No	II	B1.2	CP-103	SRP Tables II.1-1 Through II.6-1 Updates		M	II.B1.2.CP-103	II.S-1, 14	Concrete (inaccessible areas): dome; wall; basemat; ring girders;	Concrete	Water – flowing	Increase in porosity and permeability; loss of strength due to leaching of calcium	[Plant-specific aging management program [Further evaluation is recommended if plant-specific aging management program is used to manage the aging effects identified in this item. The Applicant is to provide a description, and justification, of the aging management program for concrete containment structures that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	Yes, [Further evaluation is recommended if plant-specific aging management program is used to manage the aging effects identified in this item. The Applicant is to provide a description, and justification, of the aging management program for concrete containment structures that will be used to manage the aging effects identified in this item. The description and justification should address the following: 1. Scope of program 2. Preventive actions 3. Parameters monitored or inspected 4. Detection of aging effects 5. Monitoring and trending 6. Acceptance criteria 7. Corrective actions 8. Confirmation process 9. Administrative controls 10. Operating experience]	BWR		C-01	II.B1.2-6(C-01)									
No	No	No	II	B1.2	CP-114	SRP Tables II.1-1 Through II.6-1 Updates			II.B1.2.CP-114	II.S-1, 41	Steel elements: accessible areas); support skirt	Steel	Concrete	None	None	No	BWR	New Record									
No	No	No	II	B1.2	CP-117	SRP Tables II.1-1 Through II.6-1 Updates			II.B1.2.CP-117	II.S-1, 31	Steel elements: downcomer pipes	Steel	Air – indoor, uncontrolled, treated water	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE"	No	BWR	C-46	II.B1.2-8(C-46)									
No	No	No	II	B1.2	CP-46	SRP Tables II.1-1 Through II.6-1 Updates			II.B1.2.CP-46	II.S-1, 30	Steel elements: accessible areas); suppression	Steel	Air – indoor, uncontrolled, treated water	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J".	No	BWR	C-46	II.B1.2-8(C-46)									
No	No	No	II	B1.2	CP-54	SRP Tables II.1-1 Through II.6-1 Updates			II.B1.2.CP-54	II.S-1, 22	Concrete (accessible areas): containment; wall; basemat	Concrete	Water – flowing	Increase in porosity and permeability; loss of strength due to leaching of calcium	AMP XI.S2, "ASME Section XI, Subsection IWL"	No	BWR	C-31	II.B1.2-6(C-31)									

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No	No	No	II	2.2	CP-84	GALL Tables II.3.1 through II.8 Introduction			II.B3.2-CP-84	II.3-1, 34	Concrete (accessible areas): dome; wall; basemat	Concrete	AU – indoor, uncontrolled, air – outdoor, ground	Increase in porosity and permeability; cracking; loss of material (spalling, scaling)	AMP XI.S2, "ASME Section XI, Subsection IWL," and supplements as necessary, by AMP XI.S6, "Structures Monitoring"	No		AWR	K-27	II.B3.2-5(C-27)	Chap II EP add - 7/13/2014												
Yes	No	No	II	2.2	CP-86	GALL Tables II.3.1 through II.8 Introduction		M	II.B3.2-CP-86	II.3-1, 21	Concrete (accessible areas): dome; wall; basemat; reinforcing	Concrete	AU – indoor, uncontrolled, air – outdoor	Cracking; loss of bond; and loss of material (spalling, scaling) due to corrosion of embedded steel	AMP XI.S2, "ASME Section XI, Subsection IWL"	No		AWR	C-42	II.B3.2-7(C-42)													
Yes	No	No	II	2.2	CP-89	GALL Tables II.3.1 through II.8 Introduction		M	II.B3.2-CP-89	II.3-1, 23	Concrete (inaccessible areas): dome; wall; basemat	Concrete	AU – indoor, uncontrolled, air – outdoor	Cracking; loss of bond; and loss of material (spalling, scaling) due to corrosion of embedded steel	AMP XI.S2, "ASME Section XI, Subsection IWL," and supplements as necessary, by AMP XI.S6, "Structures Monitoring"	No		AWR	C-42	II.B3.2-7(C-42)	Chap II EP add - 7/13/2014												
Yes	No	No	II	2.2	CP-88	GALL Tables II.3.1 through II.8 Introduction		M	II.B3.2-CP-88	II.3-1, 5	Steel elements (inaccessible areas): liner; liner anchors	Steel	AU – indoor, uncontrolled, air – outdoor	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J." Additional guidance from the referenced lines of material due to corrosion is provided in	Yes, if corrosion is not managed as described in the referenced lines of material due to corrosion is provided in		AWR	K-09	II.B3.2-9(C-09)													
Yes	No	No	II	2.2	C-13	GALL Tables II.3.1 through II.8 Introduction		M	II.B4.C-13	II.3-1, 9	Containment liners; containment vessel; welding	Steel; stainless steel	AU – indoor, uncontrolled, air – outdoor	Cumulative fatigue damage due to fatigue (Only if CLB fatigue analysis exists)	TLAA, evaluated in accordance with 10 CFR 50.55a(a)(3)(ii), 10 CFR 50.55a(g)(6)(ii)(B), and AMP XI.S2	Yes, TLAA		AWR		II.B4-4(C-13)													
No	No	No	II	2.4	C-16	GALL Tables II.3.1 through II.8 Introduction			II.B4.C-16	II.3-1, 28	Personnel airlock, equipment hatch, CRD hatch	Steel	AU – indoor, uncontrolled, air – outdoor	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J"	No		AWR		II.B4-4(C-16)													
No	No	No	II	2.3	CP-148	GALL Tables II.3.1 through II.8 Introduction			II.B4.CP-148	II.3-1, 31	Pressure-retaining bolting	Steel	AU – indoor, uncontrolled, air – outdoor	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWA"	No		AWR	New Record												
No	No	No	II	2.3	CP-150	GALL Tables II.3.1 through II.8 Introduction			II.B4.CP-150	II.3-1, 30	Pressure-retaining bolting	Any	Any environment	Loss of preload due to self-loosening	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J"	No		AWR	New Record												
Yes	No	No	II	2.3	CP-152	GALL Tables II.3.1 through II.8 Introduction	CR-ISG-2013-01	M	II.B4.CP-152	II.3-1, 34	Service Level I coatings	Coatings	AU – indoor, uncontrolled	Loss of coating or lining integrity due to blistering, cracking, flaking, peeling, delamination, rusting	AMP XI.S8, "Protective Coating Monitoring and Maintenance"	No		AWR	New Record			<<Disposition: LR-ISG-2013-01 Recommended Changes>> 5018.000001	<<Disposition: LR-ISG-2013-01 Recommended Changes>> In developing these new recommendations, the staff developed	<<Disposition: LR-ISG-2013-01 Recommended Changes>> <<Basis: Conforming changes to reflect the ISG>>	<<Disposition: LR-ISG-2013-01 Recommended Changes>>	<<Disposition: LR-ISG-2013-01 Recommended Changes>>							
Yes	No	No	II	2.3	CP-36	GALL Tables II.3.1 through II.8 Introduction			II.B4.CP-36	II.3-1, 35	Penetration sleeves	Steel; dissimilar metal welds	AU – indoor, uncontrolled, air – outdoor	Loss of material due to general, pitting, crevice corrosion	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J"	No		AWR	C-12	II.B4-1(C-12)													
No	No	No	II	2.3	CP-37	GALL Tables II.3.1 through II.8 Introduction			II.B4.CP-37	II.3-1, 27	penetration sleeves; penetration bellows	Steel; stainless steel; dissimilar metal welds	AU – indoor, uncontrolled, air – outdoor	Cracking due to cyclic loading (CLB fatigue analysis does not exist)	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J"	No		AWR	C-14	II.B4-3(C-14)													
Yes	No	No	II	2.4	CP-38	GALL Tables II.3.1 through II.8 Introduction		M	II.B4.CP-38	II.3-1, 10	Penetration sleeves; penetration bellows	Stainless steel; dissimilar metal welds	AU – indoor, uncontrolled, air – outdoor	Cracking due to stress corrosion cracking	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J"	Yes, if detection of aging effects is not demonstrated		PWR	C-10	II.B4-2(C-10)													
Yes	No	No	II	2.4	CP-39	GALL Tables II.3.1 through II.8 Introduction		M	II.B4.CP-39	II.3-1, 29	Personnel airlock, equipment hatch, CRD hatch: locks, hinges and closure mechanisms	Steel	AU – indoor, uncontrolled, air – outdoor	Loss of leak tightness due to mechanical wear of locks, hinges and closure mechanisms	AMP XI.S1, "ASME Section XI, Subsection IWE," and AMP XI.S4, "10 CFR Part 50, Appendix J"	No		AWR	C-17	II.B4-5(C-17)	Chap II EP change - 7/18/2014												
No	No	No	II	2.4	CP-40	GALL Tables II.3.1 through II.8 Introduction			II.B4.CP-40	II.3-1, 26	Moisture barriers (caulking, flashing, and other sealants)	Elastomer; rubber and other similar materials	AU – indoor, uncontrolled	Loss of sealing due to wear, damage, erosion, tear, surface cracks, other defects	AMP XI.S1, "ASME Section XI, Subsection IWE"	No		AWR	C-18	II.B4-7(C-18)													
No	No	No	II	2.4	CP-41	GALL Tables II.3.1 through II.8 Introduction			II.B4.CP-41	II.3-1, 33	Seals and gaskets	Elastomer; rubber and other similar materials	AU – indoor, uncontrolled, air – outdoor	Loss of sealing due to wear, damage, erosion, tear, surface cracks, other defects	AMP XI.S4, "10 CFR Part 50, Appendix J"	No		AWR	C-18	II.B4-7(C-19)													
No	No	No	III	A1	T-12	GALL Tables II.3.1 through II.8 Introduction			III.A1.T-12	II.3-1, 70	Masonry walls: all	Concrete block	AU – indoor, uncontrolled, air – outdoor	Cracking due to restraint shrinkage, creep, and aggressive environment	AMP XI.S5, "Masonry Walls"	No		AWR/PWR		III.A1-11(T-12)													
Yes	No	No	III	A1	T-08	GALL Tables II.3.1 through II.8 Introduction		M	III.A1.T-108	II.3-1, 42	Concrete (inaccessible areas): foundation	Concrete	AU – outdoor, ground water/soil	Loss of material (spalling, scaling) and cracking due to freeze-thaw	Plant-specific aging management program (Further evaluation is recommended to confirm that the freeze-thaw environment is severe enough to cause significant concrete degradation. Applicant to provide technical justification for the	Yes, for plants located in moderate freeze-thaw environments		AWR/PWR	F-01	III.A1-4(T-01)		<<Disposition: Material, Environment, and Aging Management Program Combinations>>	<<Disposition: Material, Environment, and Aging Management Program Combinations>> Various changes in the SRP and GALL report.	<<Disposition: Material, Environment, and Aging Management Program Combinations>>	<<Disposition: Material, Environment, and Aging Management Program Combinations>>	<<Disposition: Material, Environment, and Aging Management Program Combinations>>							
No	No	No	III	A1	TP-114	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-114	II.3-1, 48	Concrete: all	Concrete	AU – indoor, uncontrolled	Reduction of strength and modulus due to elevated temperatures (>150°F)	Plant-specific aging management program (Further evaluation is recommended to confirm that the temperature limits for normal operation of any other long-lived concrete structures and components are not exceeded. Applicant to provide technical justification for the	No, if temperature limits for normal operation of any other long-lived concrete structures and components are not exceeded		AWR/PWR	F-10	III.A1-1(T-10)													
Yes	No	No	III	A1	TP-204	GALL Tables II.3.1 through II.8 Introduction		M	III.A1.TP-204	II.3-1, 43	Concrete (inaccessible areas): all	Concrete	Any environment	Cracking due to expansion from reaction with aggregates	Concrete Aging Management Program (Further evaluation is recommended to determine if concrete aging management program is adequate if concrete is subject to cracking. Cracking and expansion due to reaction with aggregates	Yes, if concrete is not protected by a concrete		AWR/PWR	F-03	III.A1-2(T-03)		<<Disposition: Editorial Changes from Expert Panel Meetings>> 5020.000001	<<Disposition: Editorial Changes from Expert Panel Meetings>>	<<Disposition: Editorial Changes from Expert Panel Meetings>>	<<Disposition: Editorial Changes from Expert Panel Meetings>>	<<Disposition: Editorial Changes from Expert Panel Meetings>>							
No	No	No	III	A1	TP-212	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-212	II.3-1, 65	Concrete (accessible areas): below-grade exterior	Concrete	Ground water/soil	Cracking; loss of bond; and loss of material (spalling, scaling) due to corrosion of embedded steel	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR	F-05	III.A1-4(T-05)													
No	No	No	III	A1	TP-23	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-23	II.3-1, 64	Concrete (accessible areas): exterior above and below-grade;	Concrete	AU – outdoor	Loss of material (spalling, scaling) and cracking due to freeze-thaw	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR	F-01	III.A1-4(T-01)													
No	No	No	III	A1	TP-24	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-24	II.3-1, 63	Concrete (accessible areas): exterior above and below-grade;	Concrete	Water – flowing	Increase in porosity and permeability; loss of strength due to leaching of calcium hydroxide	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR	F-02	III.A1-7(T-02)													
Yes	No	No	III	A1	TP-248	GALL Tables II.3.1 through II.8 Introduction		M	III.A1.TP-248	II.3-1, 60	Structural bolting	Steel	AU – indoor, uncontrolled, air – outdoor	Loss of material due to general, pitting, crevice corrosion	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR	New Record														
No	No	No	III	A1	TP-25	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-25	II.3-1, 54	Concrete (accessible areas): all	Concrete	Any environment	Cracking due to expansion from reaction with aggregates	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR	F-03	III.A1-2(T-03)													
No	No	No	III	A1	TP-26	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-26	II.3-1, 66	Concrete (accessible areas): interior and above-grade exterior	Concrete	AU – indoor, uncontrolled, air – outdoor	Cracking; loss; loss of bond; and loss of material (spalling, scaling) due to corrosion of embedded steel	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR	F-04	III.A1-4(T-04)													
Yes	No	No	III	A1	TP-261	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-261	II.3-1, 88	Structural bolting	Any	Any environment	Loss of preload due to self-loosening	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR	New Record														
No	No	No	III	A1	TP-27	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-27	II.3-1, 65	Concrete (accessible areas): below-grade exterior; foundation	Concrete	Ground water/soil	Cracking; loss of bond; and loss of material (spalling, scaling) due to corrosion of embedded steel	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR	F-05	III.A1-4(T-05)													
No	No	No	III	A1	TP-274	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-274	II.3-1, 62	Structural bolting	Steel; galvanized steel	AU – outdoor	Loss of material due to general, pitting, crevice corrosion	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR	New Record														
No	No	No	III	A1	TP-28	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-28	II.3-1, 67	Concrete: interior; above-grade exterior	Concrete	AU – indoor, uncontrolled, air – outdoor	Increase in porosity and permeability; cracking; loss of material (spalling, scaling)	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR	F-06	III.A1-10(T-06)													
No	No	No	III	A1	TP-29	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-29	II.3-1, 67	Concrete (inaccessible areas): below-grade exterior; foundation	Concrete	Ground water/soil	Increase in porosity and permeability; cracking; loss of material (spalling, scaling)	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR	F-07	III.A1-5(T-07)													
Yes	No	No	III	A1	TP-30	GALL Tables II.3.1 through II.8 Introduction		M	III.A1.TP-30	II.3-1, 44	Concrete: all	Concrete	Soil	Cracking and distortion due to increased stress levels from settlement	AMP XI.S6, "Structures Monitoring" To the extent that the licensee's program does not include monitoring of the foundation, during the first five years of operation, a one-time inspection of the foundation is performed to confirm that the	Yes, if the structure is supported on soil		AWR/PWR	F-08	III.A1-3(T-08)													
No	No	No	III	A1	TP-300	GALL Tables II.3.1 through II.8 Introduction			III.A1.TP-300	II.3-1, 69	High-strength structural bolting	Low-alloy steel; actual measured	AU – indoor, uncontrolled, air – outdoor	Cracking due to stress corrosion cracking	AMP XI.S6, "Structures Monitoring" Note: ASTM A 325, F 1852, and ASTM A 490 bolts used in civil structures have not shown to be prone to SCC. SCC potential need not be evaluated for these bolts	No		AWR/PWR	New Record														
No	No	No	III	A1	TP-302	GALL Tables II.3.1 through II.8 Introduction		M	III.A1.TP-302	II.3-1, 77	Steel components: all structural steel	Steel	AU – indoor, uncontrolled, air – outdoor	Loss of material due to corrosion	AMP XI.S6, "Structures Monitoring" Loss of material due to corrosion is not significant for structures in mild environments. Applicant to provide technical justification for the	No		AWR/PWR	F-11	III.A1-12(T-11)													
No	No	No	III	A1	TP-31	GALL Tables II.3.1 through II.8 Introduction		M	III.A1.TP-31	II.3-1, 46	Concrete: foundation; subfoundation	Concrete; porous concrete	Water – flowing; water foundation	Reduction of foundation strength and cracking due to differential settlement and loss of material (spalling, scaling)	AMP XI.S6, "Structures Monitoring" To the extent that the licensee's program does not include monitoring of the foundation, during the first five years of operation, a one-time inspection of the foundation is performed to confirm that the	Yes, if the structure is supported on soil		AWR/PWR	F-09	III.A1-8(T-09)													
Yes	Yes	No	III	A1	TP-34	GALL Tables II.3.1 through II.8 Introduction		N	III.A1.TP-34	II.3-1, 71	Masonry walls: all	Concrete; concrete block	AU – outdoor	Loss of material (spalling, scaling) and cracking due to freeze-thaw and leaching of calcium hydroxide	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR															
No	No	No	III	A1	TP-67	GALL Tables II.3.1 through II.8 Introduction		M	III.A1.TP-67	II.3-1, 47	Concrete (inaccessible areas): exterior above- and	Concrete	Water – flowing	Increase in porosity and permeability; loss of strength due to leaching of calcium	Concrete Aging Management Program (Further evaluation is recommended if concrete is subject to increase in porosity and permeability due to	Yes, if concrete is not protected by a concrete		AWR	F-02	III.A1-7(T-02)													
No	No	No	III	A2	T-12	GALL Tables II.3.1 through II.8 Introduction			III.A2.T-12	II.3-1, 70	Masonry walls: all	Concrete block	AU – indoor, uncontrolled, air – outdoor	Cracking due to restraint shrinkage, creep, and aggressive environment	AMP XI.S5, "Masonry Walls"	No		AWR/PWR		III.A2-11(T-12)													
Yes	No	No	III	A2	TP-108	GALL Tables II.3.1 through II.8 Introduction		M	III.A2.TP-108	II.3-1, 42	Concrete (inaccessible areas): foundation	Concrete	AU – outdoor, ground water/soil	Loss of material (spalling, scaling) and cracking due to freeze-thaw	Plant-specific aging management program (Further evaluation is recommended to confirm that the freeze-thaw environment is severe enough to cause significant concrete degradation. Applicant to provide technical justification for the	Yes, for plants located in moderate freeze-thaw environments		AWR	F-01	III.A2-4(T-01)		<<Disposition: Material, Environment, and Aging Management Program Combinations>>	<<Disposition: Material, Environment, and Aging Management Program Combinations>> Various changes in the SRP and GALL report.	<<Disposition: Material, Environment, and Aging Management Program Combinations>>	<<Disposition: Material, Environment, and Aging Management Program Combinations>>	<<Disposition: Material, Environment, and Aging Management Program Combinations>>							
No	No	No	III	A2	TP-114	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-114	II.3-1, 48	Concrete: all	Concrete	AU – indoor, uncontrolled	Reduction of strength and modulus due to elevated temperatures (>150°F)	Plant-specific aging management program (Further evaluation is recommended to confirm that the temperature limits for normal operation of any other long-lived concrete structures and components are not exceeded. Applicant to provide technical justification for the	No, if temperature limits for normal operation of any other long-lived concrete structures and components are not exceeded		AWR	F-10	III.A2-1(T-10)													
Yes	No	No	III	A2	TP-204	GALL Tables II.3.1 through II.8 Introduction		M	III.A2.TP-204	II.3-1, 43	Concrete (inaccessible areas): all	Concrete	Any environment	Cracking due to expansion from reaction with aggregates	Concrete Aging Management Program (Further evaluation is recommended to determine if concrete aging management program is adequate if concrete is subject to cracking. Cracking and expansion due to reaction with aggregates	Yes, if concrete is not protected by a concrete		AWR	F-03	III.A2-2(T-03)		<<Disposition: Editorial Changes from Expert Panel Meetings>> 5020.000001	<<Disposition: Editorial Changes from Expert Panel Meetings>>	<<Disposition: Editorial Changes from Expert Panel Meetings>>	<<Disposition: Editorial Changes from Expert Panel Meetings>>	<<Disposition: Editorial Changes from Expert Panel Meetings>>							
No	No	No	III	A2	TP-212	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-212	II.3-1, 65	Concrete (accessible areas): below-grade exterior	Concrete	Ground water/soil	Cracking; loss of bond; and loss of material (spalling, scaling) due to corrosion of embedded steel	AMP XI.S6, "Structures Monitoring"	No		AWR	F-05	III.A2-4(T-05)													
No	No	No	III	A2	TP-23	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-23	II.3-1, 64	Concrete (accessible areas): exterior above and below-grade	Concrete	AU – outdoor	Loss of material (spalling, scaling) and cracking due to freeze-thaw	AMP XI.S6, "Structures Monitoring"	No		AWR	F-01	III.A2-4(T-01)													
No	No	No	III	A2	TP-24	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-24	II.3-1, 63	Concrete (accessible areas): exterior above and below-grade;	Concrete	Water – flowing	Increase in porosity and permeability; loss of strength due to leaching of calcium hydroxide	AMP XI.S6, "Structures Monitoring"	No		AWR	F-02	III.A2-7(T-02)													
Yes	No	No	III	A2	TP-248	GALL Tables II.3.1 through II.8 Introduction		M	III.A2.TP-248	II.3-1, 60	Structural bolting	Steel	AU – indoor, uncontrolled, air – outdoor	Loss of material due to general, pitting, crevice corrosion	AMP XI.S6, "Structures Monitoring"	No		AWR	New Record														
No	No	No	III	A2	TP-25	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-25	II.3-1, 54	Concrete (accessible areas): all	Concrete	Any environment	Cracking due to expansion from reaction with aggregates	AMP XI.S6, "Structures Monitoring"	No		AWR	F-03	III.A2-2(T-03)													
No	No	No	III	A2	TP-26	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-26	II.3-1, 66	Concrete (accessible areas): interior and above-grade exterior	Concrete	AU – indoor, uncontrolled, air – outdoor	Cracking; loss of bond; and loss of material (spalling, scaling) due to corrosion of embedded steel	AMP XI.S6, "Structures Monitoring"	No		AWR	F-04	III.A2-4(T-04)													
No	No	No	III	A2	TP-261	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-261	II.3-1, 88	Structural bolting	Any	Any environment	Loss of preload due to self-loosening	AMP XI.S6, "Structures Monitoring"	No		AWR	New Record														
No	No	No	III	A2	TP-27	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-27	II.3-1, 65	Concrete (accessible areas): below-grade exterior; foundation	Concrete	Ground water/soil	Cracking; loss of bond; and loss of material (spalling, scaling) due to corrosion of embedded steel	AMP XI.S6, "Structures Monitoring"	No		AWR	F-05	III.A2-4(T-05)													
No	No	No	III	A2	TP-274	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-274	II.3-1, 62	Structural bolting	Steel; galvanized steel	AU – outdoor	Loss of material due to general, pitting, crevice corrosion	AMP XI.S6, "Structures Monitoring"	No		AWR	New Record														
No	No	No	III	A2	TP-28	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-28	II.3-1, 67	Concrete: interior; above-grade exterior	Concrete	AU – indoor, uncontrolled, air – outdoor	Increase in porosity and permeability; cracking; loss of material (spalling, scaling)	AMP XI.S6, "Structures Monitoring"	No		AWR	F-06	III.A2-10(T-06)													
No	No	No	III	A2	TP-29	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-29	II.3-1, 67	Concrete (inaccessible areas): below-grade exterior; foundation	Concrete	Ground water/soil	Increase in porosity and permeability; cracking; loss of material (spalling, scaling)	AMP XI.S6, "Structures Monitoring"	No		AWR	F-07	III.A2-5(T-07)													
Yes	No	No	III	A2	TP-30	GALL Tables II.3.1 through II.8 Introduction		M	III.A2.TP-30	II.3-1, 44	Concrete: all	Concrete	Soil	Cracking and distortion due to increased stress levels from settlement	AMP XI.S6, "Structures Monitoring" To the extent that the licensee's program does not include monitoring of the foundation, during the first five years of operation, a one-time inspection of the foundation is performed to confirm that the	Yes, if the structure is supported on soil		AWR	F-08	III.A2-3(T-08)													
No	No	No	III	A2	TP-300	GALL Tables II.3.1 through II.8 Introduction			III.A2.TP-300	II.3-1, 69	High-strength structural bolting	Low-alloy steel; actual measured	AU – indoor, uncontrolled, air – outdoor	Cracking due to stress corrosion cracking	AMP XI.S6, "Structures Monitoring" Note: ASTM A 325, F 1852, and ASTM A 490 bolts used in civil structures have not shown to be prone to SCC. SCC potential need not be evaluated for these bolts	No		AWR	New Record														
No	No	No	III	A2	TP-302	GALL Tables II.3.1 through II.8 Introduction		M	III.A2.TP-302	II.3-1, 77	Steel components: all structural steel	Steel	AU – indoor, uncontrolled, air – outdoor	Loss of material due to corrosion	AMP XI.S6, "Structures Monitoring" Loss of material due to corrosion is not significant for structures in mild environments. Applicant to provide technical justification for the	No		AWR	F-11	III.A2-12(T-11)													
Yes	No	No	III	A2	TP-31	GALL Tables II.3.1 through II.8 Introduction		M	III.A2.TP-31	II.3-1, 46	Concrete: foundation; subfoundation	Concrete; porous concrete	Water – flowing; water foundation	Reduction of foundation strength and cracking due to differential settlement and loss of material (spalling, scaling)	AMP XI.S6, "Structures Monitoring" To the extent that the licensee's program does not include monitoring of the foundation, during the first five years of operation, a one-time inspection of the foundation is performed to confirm that the	Yes, if the structure is supported on soil		AWR	F-09	III.A2-8(T-09)													
Yes	Yes	No	III	A2	TP-34	GALL Tables II.3.1 through II.8 Introduction		N	III.A2.TP-34	II.3-1, 71	Masonry walls: all	Concrete; concrete block	AU – outdoor	Loss of material (spalling, scaling) and cracking due to freeze-thaw and leaching of calcium hydroxide	AMP XI.S6, "Structures Monitoring"	No		AWR/PWR															
No	No	No	III	A2	TP-67	GALL Tables II.3.1 through II.8 Introduction		M	III.A2.TP-67	II.3-1, 47	Concrete (inaccessible areas): exterior above- and	Concrete	Water – flowing	Increase in porosity and permeability; loss of strength due to leaching of calcium	Concrete Aging Management Program (Further evaluation is recommended if concrete is subject to increase in porosity and permeability due to	Yes, if concrete is not protected by a concrete		AWR	F-02	III.A2-7(T-02)													
No	No	No	III	A3	T-12	GALL Tables II.3.1 through II.8 Introduction			III.A3.T-12	II.3-1, 70	Masonry walls: all	Concrete block	AU – indoor, uncontrolled, air – outdoor	Cracking due to restraint shrinkage, creep, and aggressive environment	AMP XI.S5, "Masonry Walls"	No		AWR/PWR		III.A3-11(T-12)													
Yes	No	No	III	A3	TP-108	GALL Tables II.3.1 through II.8 Introduction		M	III.A3.TP-108	II.3-1, 42	Concrete (inaccessible areas): foundation	Concrete	AU – outdoor, ground water/soil	Loss of material (spalling, scaling) and cracking due to freeze-thaw	Plant-specific aging management program (Further evaluation is recommended to confirm that the freeze-thaw environment is severe enough to cause significant concrete degradation. Applicant to provide technical justification for the	Yes, for plants located in moderate freeze-thaw environments		AWR	F-01	III.A3-4(T-01)		<<Disposition: Material, Environment, and Aging Management Program Combinations>>	<<Disposition: Material, Environment, and Aging Management Program Combinations>> Various changes in the SRP and GALL report.	<<Disposition: Material, Environment, and Aging Management Program Combinations>>	<<Disposition: Material, Environment, and Aging Management Program Combinations>>	<<Disposition: Material, Environment, and Aging Management Program Combinations>>							
No	No	No	III	A3	TP-114	GALL Tables II.3.1 through II.8 Introduction			III.A3.TP-114	II.3-1, 48	Concrete: all	Concrete	AU – indoor, uncontrolled	Reduction of strength and modulus due to elevated temperatures (>150°F)	Plant-specific aging management program (Further evaluation is recommended to confirm that the temperature limits for normal operation of any other long-lived concrete structures and components are not exceeded. Applicant to provide technical justification for the	No, if temperature limits for normal operation of any other long-lived concrete structures and components are not exceeded		AWR/PWR	F-10	III.A3-1(T-10)													
Yes	No	No	III	A3	TP-204	GALL Tables II.3.1 through II.8 Introduction		M	III.A3.TP-204	II.3-1, 43	Concrete (inaccessible areas): all	Concrete	Any environment	Cracking due to expansion from reaction with aggregates	Concrete Aging Management Program (Further evaluation is recommended to determine if concrete aging management program is adequate if concrete is subject to cracking. Cracking and expansion due to reaction with aggregates	Yes, if concrete is not protected by a concrete		AWR/PWR	F-03	III.A3-2(T-03)		<<Disposition: Editorial Changes from Expert Panel Meetings>> 5020.000001	<<Disposition: Editorial Changes from Expert Panel Meetings>>	<<Disposition: Editorial Changes from Expert Panel Meetings>>	<<Disposition: Editorial Changes from Expert Panel Meetings>>	<<Disposition: Editorial Changes from Expert Panel Meetings>>							

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Yes	No	Yes	IV	B2	RP-275		LR-SG-2011-04	D	V.B2.RP-275		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-125	V.B2-6(R-126)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-275 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-275 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-276		LR-SG-2011-04	D	V.B2.RP-276		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-120	V.B2-6(R-125)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-276 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-276 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-278		LR-SG-2011-04	D	V.B2.RP-278		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-120	V.B2-6(R-125)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-278 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-278 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-278a		LR-SG-2011-04	D	V.B2.RP-278a		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-120	V.B2-6(R-125)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-278a due to the elimination of GALL AMP XI.M16A from	AMR Item Sets Referencing IV.B2.RP-278a has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-280		LR-SG-2011-04	D	V.B2.RP-280		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-120	V.B2-6(R-125)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-280 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-280 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	No	IV	B2	RP-284	SAR Tables 5.1-1, through 5.6-1, Drawings	LR-SG-2011-04	M	IV.B2.RP-284	3.1-1, 54	Bottom mounted instrumentation flux thimble tubes	Stainless steel; cold worked stainless steel	Reactor coolant, neutron flux	Loss of material due to wear	AMP XI.M16A, "PWR Vessel Internals" and AMP XI.M37, "Flux Thimble Tube Inspection"	No		PWR	R-143	IV.B2-12(R-143)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff modified AMR Item Set 54 in SRP-SLR Table 3.1-1 to delete AMR line item IV.B2.RP-284 due to the elimination of GALL AMP XI.M16A from GALL AMP XI.M16A, PWR Vessel Internals.	AMR Item Set 54 in SRP-SLR Table 3.1-1 has been modified to delete AMR Line Item IV.B2.RP-284. Referenced AMR Line Item IV.B2.RP-284 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-285		LR-SG-2011-04	D	V.B2.RP-285		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-137	V.B2-14(R-137)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-285 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-285 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-286		LR-SG-2011-04	D	V.B2.RP-286		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-133	V.B2-16(R-133)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-286 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-286 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-287		LR-SG-2011-04	D	V.B2.RP-287		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-135	V.B2-17(R-135)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-287 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-287 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-288		LR-SG-2011-04	D	V.B2.RP-288		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-132	V.B2-18(R-132)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-288 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-288 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-289		LR-SG-2011-04	D	V.B2.RP-289		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-130	V.B2-20(R-130)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-289 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-289 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-290		LR-SG-2011-04	D	V.B2.RP-290		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-140	V.B2-21(R-140)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-290 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-290 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-290a		LR-SG-2011-04	D	V.B2.RP-290a		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M16A, "PWR Vessel Internals"	No					Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-290a due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-290a has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-290b		LR-SG-2011-04	D	V.B2.RP-290b		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M16A, "PWR Vessel Internals"	No					Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-290b due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-290b has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-291		LR-SG-2011-04	D	V.B2.RP-291		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-139	V.B2-24(R-139)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-291 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-291 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-291a		LR-SG-2011-04	D	V.B2.RP-291a		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-139	V.B2-24(R-139)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-291a due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-291a has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-291b		LR-SG-2011-04	D	V.B2.RP-291b		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-139	V.B2-24(R-139)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-291b due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-291b has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-292		LR-SG-2011-04	D	V.B2.RP-292		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-140	V.B2-21(R-140)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-292 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-292 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-293		LR-SG-2011-04	D	V.B2.RP-293		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-138	V.B2-24(R-138)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-293 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-293 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-294		LR-SG-2011-04	D	V.B2.RP-294		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-138	V.B2-24(R-138)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-294 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-294 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-295		LR-SG-2011-04	D	V.B2.RP-295		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-141	V.B2-22(R-141)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-295 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-295 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-296		LR-SG-2011-04	D	V.B2.RP-296		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		New Record			Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-296 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-296 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-297		LR-SG-2011-04	D	V.B2.RP-297		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		New Record			Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-297 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-297 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-298		LR-SG-2011-04	D	V.B2.RP-298		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-118	V.B2-28(R-118)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-298 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-298 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-299		LR-SG-2011-04	D	V.B2.RP-299		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-115	V.B2-30(R-115)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-299 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-299 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-300		LR-SG-2011-04	D	V.B2.RP-300		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-108	V.B2-33(R-108)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-300 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-300 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-301		LR-SG-2011-04	D	V.B2.RP-301		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Chemistry," and AMP XI.M16A, "PWR Vessel Internals," and AMP XI.M32, "One-Time Inspection," and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for SCC mechanism; and AMP XI.M35, "One-Time Inspection of ASME Code Class 1 Small-Bore Piping," for fatigue mechanism.	No		PWR	R-112	V.B2-40(R-112)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B2.RP-301 due to the elimination of GALL AMP XI.M16A from	AMR Item Sets referencing IV.B2.RP-301 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer include	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B2	RP-302		LR-SG-2011-04	D	V.B2.RP-302		Cracking due to stress corrosion cracking; loss of material due to wear	Stainless steel; nickel alloy	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; Loss of material due to wear	AMP XI.M2, "Water Ch

Yes	No	Yes	IV	B3	RP-328		LR-ISG-2011-04	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; loss of material due to wear	AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection" and AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	Yes		PWR	R-155	V.B3-(1)(R-155)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-328 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-328 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-329		LR-ISG-2011-04	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; loss of material due to wear	AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection" and AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No		PWR	R-155	V.B3-(1)(R-155)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-329 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-329 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-330		LR-ISG-2011-04	D	V.B3.RP-330		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	Yes		PWR	R-167	V.B3-(2)(R-167)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-330 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-330 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-331		LR-ISG-2011-04	D	V.B3.RP-331		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-331 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-331 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-332		LR-ISG-2011-04	D	V.B3.RP-332		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	R-156	V.B3-(1)(R-156)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-332 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-332 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-333		[redacted]	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; loss of material due to wear	AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection" and AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-333 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-333 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-334		LR-ISG-2011-04	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; loss of material due to wear	AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection" and AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No		PWR	A-167	V.B3-(2)(R-167)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-334 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-334 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-334a		[redacted]	D	V.B3.RP-334a		[redacted]	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; loss of material due to wear	AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection" and AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-334a due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-334a has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-335		LR-ISG-2011-04	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; loss of material due to wear	AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection" and AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No		PWR	A-167	V.B3-(2)(R-167)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-335 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-335 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-336		LR-ISG-2011-04	D	V.B3.RP-336		[redacted]	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; loss of material due to wear	AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection" and AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No		PWR	A-170	V.B3-(2)(R-170)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-336 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-336 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-338		LR-ISG-2011-04	D	V.B3.RP-338		[redacted]	Reactor coolant and neutron flux	Cracking due to stress corrosion cracking; loss of material due to wear	AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection" and AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-338 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-338 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	No	IV	B3	RP-339	EMP Tables 3.1-1 through 3.6-1 Detailed Line	LR-ISG-2011-04	M	V.B3.RP-339	3.1-1, 3	Stainless steel; nickel alloy	Reactor coolant; neutron flux	Cumulative fatigue damage; cracking due to fatigue; thermal fatigue	[redacted]	Yes		PWR	R-53	V.B3-24(R-53)	Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff made changes to the previous line item in GALL Section 3.1 (IV.B3-S99) in order to be consistent with change made to IV.B2.RP-339.	AMR line item 3 in SRP-SLR Table 3.1-1 has been updated accordingly to be consistent with change made to IV.B2.RP-339.		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-342		[redacted]	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-342 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-342 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-343		[redacted]	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-343 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-343 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-347		[redacted]	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-347 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-347 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-348		LR-ISG-2011-04	D	V.B3.RP-348		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-348 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-348 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-349		LR-ISG-2011-04	D	V.B3.RP-349		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-349 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-349 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-349a		[redacted]	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-349a due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-349a has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-380		LR-ISG-2011-04	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-380 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-380 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-381		[redacted]	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-381 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-381 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382		[redacted]	D	[redacted]		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382 due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382 has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382a		LR-ISG-2011-04	D	V.B3.RP-382a		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382a due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382a has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382b		LR-ISG-2011-04	D	V.B3.RP-382b		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382b due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382b has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382c		LR-ISG-2011-04	D	V.B3.RP-382c		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382c due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382c has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382d		LR-ISG-2011-04	D	V.B3.RP-382d		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382d due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382d has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382e		LR-ISG-2011-04	D	V.B3.RP-382e		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382e due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382e has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382f		LR-ISG-2011-04	D	V.B3.RP-382f		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382f due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382f has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382g		LR-ISG-2011-04	D	V.B3.RP-382g		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382g due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382g has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382h		LR-ISG-2011-04	D	V.B3.RP-382h		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382h due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382h has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382i		LR-ISG-2011-04	D	V.B3.RP-382i		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382i due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382i has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382j		LR-ISG-2011-04	D	V.B3.RP-382j		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382j due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382j has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382k		LR-ISG-2011-04	D	V.B3.RP-382k		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382k due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382k has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382l		LR-ISG-2011-04	D	V.B3.RP-382l		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382l due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382l has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382m		LR-ISG-2011-04	D	V.B3.RP-382m		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382m due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382m has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382n		LR-ISG-2011-04	D	V.B3.RP-382n		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping Components Inspection"	No		PWR	New Record		Final GALL IV Tech Lead QA on 01-30-2015.	Tech Lead Comment: The staff deleted AMR line item IV.B3.RP-382n due to the elimination of GALL AMP XI.M36A from	AMR Item lists referencing IV.B3.RP-382n has been deleted from Table 3.1-1		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> The updated version of GALL AMP XI.M16A no longer includes	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal
Yes	No	Yes	IV	B3	RP-382o		LR-ISG-2011-04	D	V.B3.RP-382o		[redacted]	Reactor coolant and neutron flux	Electric contact and wear due to mechanical loading; loss of material due to wear	AMP XI.M18, "Bolting Integrity" and AMP XI.M32, "Above Ground Carbon Steel Piping and Piping

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No	No	No	V	E	EP-116	GWP Tables II Through VIII			V.E.EP-116	E.2-1, 15	Bolting	Steel; stainless steel	AU – outdoor (External)	Loss of preload due to thermal effects, gasket creep, or self-loosening	AMP XI.M18, "Bolting Integrity"	No	BWR/PWR	New Record													
Yes	No	No	V	E	EP-119	GWP Tables II Through VIII		M	V.E.EP-119	E.2-1, 15	Bolting	Steel; stainless steel	Raw water – [redacted]	Loss of preload due to thermal effects, gasket creep, or self-loosening	AMP XI.M18, "Bolting Integrity"	No	BWR/PWR	New Record					<<Disposition: F-J Items for SLR>> 3016-000165	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>
No	No	No	V	E	EP-120	GWP Tables II Through VIII			V.E.EP-120	E.2-1, 15	Bolting	Stainless steel	Treated borated water	Loss of preload due to thermal effects, gasket creep, or self-loosening	AMP XI.M18, "Bolting Integrity"	No	PWR	New Record													
No	No	No	V	E	EP-121	GWP Tables II Through VIII			V.E.EP-121	E.2-1, 15	Bolting	Steel; stainless steel	Fuel oil	Loss of preload due to thermal effects, gasket creep, or self-loosening	AMP XI.M18, "Bolting Integrity"	No	BWR/PWR	New Record													
No	No	No	V	E	EP-122	GWP Tables II Through VIII			V.E.EP-122	E.2-1, 15	Bolting	Steel; stainless steel	Treated water	Loss of preload due to thermal effects, gasket creep, or self-loosening	AMP XI.M18, "Bolting Integrity"	No	BWR/PWR	New Record													
Yes	No	No	V	E	EP-123	GWP Tables II Through VIII	LR-ISG-2011-02	M	V.E.EP-123	E.2-1, E3a	Underground piping, piping components, and piping elements	Steel; stainless steel; cast iron	AU – indoor, uncontrolled or AU – outdoor (External)	Loss of material due to general (steel only), pitting, crevice corrosion	AMP XI.M41, "Buried and Underground Piping and Tanks"	No	BWR/PWR	New Record					<<Disposition: Buried Piping ISG>> 3008-000001	<<Disposition: Buried Piping ISG>> Various GALs and ISG. This includes modification to the aging management program to address items raised in the ISG.	<<Disposition: Buried Piping ISG>> Basic. Conforming changes to reflect the ISG	<<Disposition: Buried Piping ISG>>	<<Disposition: Buried Piping ISG>>
Yes	No	No	V	E	EP-38	GWP Tables II Through VIII		M	V.E.EP-38	E.2-1, 8	Piping, piping components, and piping elements	Copper alloy >15% Zn or >8% Sn	Air with borated water leakage	Loss of material due to boric acid corrosion	AMP XI.M10, "Boric Acid Corrosion"	No	PWR				V-A-1-(EP-38)						
No	No	No	V	E	EP-64	GWP Tables II Through VIII			V.E.EP-64	E.2-1, 13	Bolting	Steel; stainless steel	AU – outdoor (External)	Loss of material due to general (steel only), pitting, crevice corrosion	AMP XI.M18, "Bolting Integrity"	No	BWR/PWR	ESP-1	V-E-1-(EP-1)									
No	No	No	V	E	EP-69	GWP Tables II Through VIII			V.E.EP-69	E.2-1, 15	Closure bolting	Steel; stainless steel	AU – indoor, uncontrolled (External)	Loss of material due to general (steel only), pitting, crevice corrosion	AMP XI.M18, "Bolting Integrity"	No	BWR/PWR	ESP-24	V-E-5-(EP-24)									
No	No	No	V	E	EP-70	GWP Tables II Through VIII			V.E.EP-70	E.2-1, 13	Closure bolting	Steel; stainless steel	AU – indoor, uncontrolled (External)	Loss of material due to general (steel only), pitting, crevice corrosion	AMP XI.M18, "Bolting Integrity"	No	BWR/PWR	ESP-25	V-E-4-(EP-25)									
Yes	Yes	No	V	E	E-436	GWP Tables II Through VIII		N	V.E.E-436	E.2-1, 60	Closure, bellow, [redacted]	Copper alloy >15% Zn or >8% Sn	Air with borated water leakage	None	None	No	PWR										
Yes	No	No	V	F	CP-10	GWP Tables II Through VIII		M	V.F.CP-10	E.2-1, E7	Piping, piping components, and piping elements	Copper alloy	AU – indoor, uncontrolled (external)	None	None	No	BWR/PWR				V-F-3-(CP-10)						
Yes	No	No	V	F	CP-112	GWP Tables II Through VIII		M	V.F.CP-112	E.2-1, S5	Piping, piping components, and piping elements	Steel	Concrete	None	No [redacted] is required for either of the two reasons in accordance with 10 CFR 54.4(a)(2). The [redacted] is not credited with any intended function in accordance with 10 CFR 54.4(a)(1), and is not relied upon for any environmental or [redacted] in accordance with 10 CFR 54.4(a)(3).	BWR/PWR	ESP-2	V-F-17-(SP-5)	XI.M41 Expert Panel	<<Disposition: XI.M41 Expert Panel>> 3005-000001 3007-000001	<<Disposition: XI.M41 Expert Panel>>	<<Disposition: XI.M41 Expert Panel>>	<<Disposition: XI.M41 Expert Panel>>	<<Disposition: XI.M41 Expert Panel>>
Yes	No	No	V	F	CP-116	GWP Tables II Through VIII		M	V.F.CP-116	E.2-1, 62	Piping, piping components, and piping elements	Nickel alloy	Air with borated water leakage	None	None	No	BWR/PWR	New Record									
Yes	No	No	V	F	CP-12	GWP Tables II Through VIII		M	V.F.CP-12	E.2-1, S8	Piping, piping components, and piping elements	Copper alloy >15% Zn or >8% Sn	Air with borated water leakage	None	None	No	PWR				V-F-5-(CP-12)						
Yes	No	No	V	F	CP-14	GWP Tables II Through VIII		M	V.F.CP-14	E.2-1, S9	Welding, piping, components	Galvanized steel	AU – indoor, controlled (External)	None	None	No	BWR/PWR				V-F-1-(CP-14)						
Yes	No	No	V	F	CP-15	GWP Tables II Through VIII		M	V.F.CP-15	E.2-1, 60	Piping elements	Glass	AU – indoor, uncontrolled (External)	None	None	No	BWR/PWR				V-F-6-(CP-15)						
No	No	No	V	F	CP-16	GWP Tables II Through VIII			V.F.CP-16	E.2-1, 60	Piping elements	Glass	Lubricating oil	None	None	No	BWR/PWR				V-F-7-(CP-16)						
Yes	No	No	V	F	CP-17	GWP Tables II Through VIII		M	V.F.CP-17	E.2-1, 91	Piping, piping components, and piping elements	Nickel alloy	AU – indoor, uncontrolled (external)	None	None	No	BWR/PWR				V-F-11-(CP-17)						
Yes	No	No	V	F	CP-18	GWP Tables II Through VIII		M	V.F.CP-18	E.2-1, 63	Piping, piping components, and piping elements	Stainless steel	AU – indoor, uncontrolled (external)	None	None	No	BWR/PWR				V-F-12-(CP-18)						
Yes	No	No	V	F	CP-19	GWP Tables II Through VIII		M	V.F.CP-19	E.2-1, 63	Piping, piping components, and piping elements	Stainless steel	Air with borated water leakage	None	None	No	BWR/PWR				V-F-13-(CP-19)						
Yes	No	No	V	F	CP-20	GWP Tables II Through VIII		M	V.F.CP-20	E.2-1, 91	Piping, piping components, and piping elements	Stainless steel	Concrete	None	None [redacted]	BWR/PWR		<<Disposition: XI.M41 Expert Panel>> 3005-000001 3007-000001	<<Disposition: XI.M41 Expert Panel>>	<<Disposition: XI.M41 Expert Panel>>	<<Disposition: XI.M41 Expert Panel>>	<<Disposition: XI.M41 Expert Panel>>
Yes	No	No	V	F	CP-22	GWP Tables II Through VIII		M	V.F.CP-22	E.2-1, 63	Piping, piping components, and piping elements	Stainless steel	Gas	None	None	No	BWR/PWR				V-F-15-(CP-22)						
No	No	No	V	F	CP-28	GWP Tables II Through VIII			V.F.CP-28	E.2-1, 60	Piping elements	Glass	Raw water	None	None	No	BWR/PWR				V-F-8-(CP-28)						
No	No	No	V	F	CP-29	GWP Tables II Through VIII			V.F.CP-29	E.2-1, 60	Piping elements	Glass	Treated water	None	None	No	BWR/PWR				V-F-10-(CP-29)						
Yes	No	No	V	F	EP-3	GWP Tables II Through VIII		M	V.F.EP-3	E.3-1, 56	Piping, piping components, and piping elements	Aluminum	AU – indoor, uncontrolled (internal/external)	None	None	No	BWR/PWR				V-F-2-(EP-3)						
No	No	No	V	F	EP-30	GWP Tables II Through VIII			V.F.EP-30	E.2-1, 60	Piping elements	Glass	Treated borated water	None	None	No	BWR/PWR				V-F-9-(EP-30)						
No	No	No	V	F	EP-4	GWP Tables II Through VIII		M	V.F.EP-4	E.2-1, 64	Piping, piping components, and piping elements	Steel	AU – indoor, controlled (external)	None	None	No	BWR/PWR				V-F-16-(EP-4)						
No	No	No	V	F	EP-65	GWP Tables II Through VIII			V.F.EP-65	E.2-1, 60	Piping elements	Glass	Air with borated water leakage	None	None	No	BWR/PWR	New Record									
No	No	No	V	F	EP-66	GWP Tables II Through VIII			V.F.EP-66	E.2-1, 60	Piping elements	Glass	Condensation (internal/External)	None	None	No	BWR/PWR	New Record									
No	No	No	V	F	EP-67	GWP Tables II Through VIII			V.F.EP-67	E.2-1, 60	Piping elements	Glass	Gas	None	None	No	BWR/PWR	New Record									
No	No	No	V	F	EP-68	GWP Tables II Through VIII			V.F.EP-68	E.2-1, 60	Piping elements	Glass	Closed-cycle cooling water	None	None	No	BWR/PWR	New Record									
Yes	No	No	V	F	EP-7	GWP Tables II Through VIII		M	V.F.EP-7	E.2-1, 64	Piping, piping components, and piping elements	Steel	Gas	None	None	No	BWR/PWR				V-F-18-(EP-7)						
Yes	No	No	V	F	EP-82	GWP Tables II Through VIII		M	V.F.EP-82	E.2-1, 63	Piping, piping components, and piping elements	Stainless steel	AU – indoor, uncontrolled (internal)	None	None	No	BWR/PWR	New Record									
No	No	No	V	F	EP-87	GWP Tables II Through VIII			V.F.EP-87	E.2-1, 60	Piping elements	Glass	AU – outdoor	None	None	No	BWR/PWR	New Record									
Yes	No	No	V	F	EP-9	GWP Tables II Through VIII		M	V.F.EP-9	E.2-1, 57	Piping, piping components, and piping elements	Copper alloy	Gas	None	None	No	BWR/PWR				V-F-4-(EP-9)						
Yes	Yes	No	VI	A	L-07	GWP Tables II Through VIII		N	VI.A.L-07	VI.A.L-07	Cable trays, external surface of enclosure assemblies, cable ladders, cable trays, conduits, and cable bus	Various metals used for electrical equipment	Various environments as defined by the applicable system	Increased electrical resistance of connection due to chemical contamination, corrosion, vibration, or loosening of bolts	AMP XI.E4, "Cable Trays"	No	BWR/PWR										
Yes	Yes	No	VI	A	L-08	GWP Tables II Through VIII		N	VI.A.L-08	VI.A.L-08	Cable trays, enclosures, and conduits	Various metals used for electrical equipment	Various environments as defined by the applicable system	Increased electrical resistance of connection due to chemical contamination, corrosion, vibration, or loosening of bolts	No aging management program is required for those applicants who [redacted]	Yes, plant-specific aging evaluation required	BWR/PWR		<<Disposition: SRP Section 3.6 Expert Panel>> 3016-000036	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>
Yes	No	No	VI	A	L-09	GWP Tables II Through VIII		N	VI.A.L-09	E.6-1, 27	Cable Bus, external surface of enclosure assemblies	Galvanized steel; aluminum	Various environments as defined by the applicable system	None	None	No	BWR/PWR										
Yes	No	No	VI	A	L-10	GWP Tables II Through VIII		N	VI.A.L-10	E.6-1, 29	Cable Bus, enclosures	Various metals used for electrical equipment	Various environments as defined by the applicable system	Increased electrical resistance of connection due to chemical contamination, corrosion, vibration, or loosening of bolts	A plant-specific aging management program is to be evaluated	Yes, plant-specific aging evaluation required	BWR/PWR		<<Disposition: SRP Section 3.6 Expert Panel>> 3016-000036	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>
Yes	No	No	VI	A	L-11	GWP Tables II Through VIII		N	VI.A.L-11	E.6-1, 30	Cable Bus	Various metals used for electrical equipment	Various environments as defined by the applicable system	Increased electrical resistance of connection due to chemical contamination, corrosion, vibration, or loosening of bolts	A plant-specific aging management program is to be evaluated	Yes, plant-specific aging evaluation required	BWR/PWR		<<Disposition: SRP Section 3.6 Expert Panel>> 3016-000036	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>
Yes	No	No	VI	A	L-12	GWP Tables II Through VIII		N	VI.A.L-12	E.6-1, 30	Cable Bus, external surface of enclosure assemblies	Steel	Various environments as defined by the applicable system	Loss of material due to general, pitting, crevice corrosion	A plant-specific aging management program is to be evaluated	Yes, plant-specific aging evaluation required	BWR/PWR		<<Disposition: SRP Section 3.6 Expert Panel>> 3016-000036	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>
Yes	No	No	VI	A	L-13	GWP Tables II Through VIII		N	VI.A.L-13	E.6-1, 31	Cable Bus, enclosures	Various metals used for electrical equipment	Various environments as defined by the applicable system	Loss of material due to general, pitting, crevice corrosion	A plant-specific aging management program is to be evaluated	Yes, plant-specific aging evaluation required	BWR/PWR		<<Disposition: SRP Section 3.6 Expert Panel>> 3016-000036	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>	<<Disposition: SRP Section 3.6 Expert Panel>>
Yes	No	No	VI	A	L-14	GWP Tables II Through VIII		N	VI.A.L-14	E.6-1, 32	Cable Bus, external surface of enclosure assemblies	Steel	Air – indoor, uncontrolled	None	None	No	BWR/PWR										
Yes	No	No	VI	A	P-23	GWP Tables II Through VIII		M	VI.A.LP-23	E.6-1, 16	Fuse holders (not part of active equipment); metallic clamps	Various metals used for electrical	AU – indoor, uncontrolled	Increased electrical resistance of connection due to chemical contamination, corrosion, vibration, or loosening of bolts	AMP XI.E5, "Fuse Holders"	No	BWR/PWR	ESP-31	VI-A-8(LP-31)								
Yes	No	No	VI	A	P-24	GWP Tables II Through VIII		M	VI.A.LP-24	E.6-1, 22	Fuse holders (not part of active equipment); insulation material	Various insulation materials	Various environments as defined by the applicable system	Increased electrical resistance of connection due to chemical contamination, corrosion, vibration, or loosening of bolts	No aging management program is required for those applicants who [redacted]	No	BWR/PWR	ESP-32	VI-A-7(LP-32)								
Yes	No	No	VI	A	P-25	GWP Tables II Through VIII		M	VI.A.LP-25	E.6-1, 12	Metal enclosed bus; bus connections	Various metals used for electrical	AU – indoor, controlled or uncontrolled, air –	Increased electrical resistance of connection due to the loosening of bolts	AMP XI.E4, "Metal Enclosed Bus"	No	BWR/PWR	ESP-34	VI-A-11(LP-34)								
Yes	No	No	VI	A	P-26	GWP Tables II Through VIII		M	VI.A.LP-26	E.6-1, 13	Metal enclosed bus; electrical insulation; metallic shells	Various metals used for electrical; air; insulating epoxy; thermo-plastic	AU – indoor, controlled or uncontrolled, air –	Reduced electrical resistance due to thermal/thermoelectric	AMP XI.E4, "Metal Enclosed Bus"	No	BWR/PWR	ESP-35	VI-A-14(LP-35)								
Yes	No	No	VI	A	P-28	GWP Tables II Through VIII		M	VI.A.LP-28	E.6-1, 3	High-voltage insulators	Porcelain; malleable iron;	AU – outdoor	Reduced electrical resistance due to the presence of salt deposits or surface contamination	AMP XI.E 7, "High Voltage Insulators" [redacted]	Yes, plant-specific aging evaluation required	BWR/PWR	ESP-37	VI-A-9(LP-37)								
No	No	No	VI	A	P-29	GWP Tables II Through VIII			VI.A.LP-29	E.6-1, 11	Metal enclosed bus; enclosure assemblies	Steelshield	AU – indoor, controlled or uncontrolled, air –	Surface cracking, crazing, scuffing, dimensional change (e.g. "ballooning"	AMP XI.E4, "Metal Enclosed Bus," or AMP XI.S6, "Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components"	No	BWR/PWR	ESP-10	VI-A-2(LP-10)								
Yes	No	No	VI	A	P-30	GWP Tables II Through VIII		M	VI.A.LP-30	E.6-1, 19	Cable connections (metallic parts)	Various metals used for electrical	AU – indoor, controlled or uncontrolled, air –	Increased electrical resistance of connection due to cracking, chips	AMP XI.E6, "Electrical Cable Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements"	No	BWR/PWR	ESP-12	VI-A-10(LP-12)								
Yes	No	No	VI	A	P-31	GWP Tables II Through VIII		M	VI.A.LP-31	E.6-1, 18	Fuse holders (not part of active equipment); metallic clamps	Various metals used for electrical	AU – indoor, controlled or uncontrolled	Increased electrical resistance of connection due to fatigue caused by frequent	AMP XI.E5, "Fuse Holders"	No	BWR/PWR	ESP-31	VI-A-8(LP-31)								
Yes	No	No	VI	A	P-32	GWP Tables II Through VIII		M	VI.A.LP-32	E.6-1, 2	High-voltage insulators	Porcelain; malleable iron;	AU – outdoor	Loss of material due to mechanical wear caused by	AMP XI.E 7, "High Voltage Insulators" [redacted]	Yes, plant-specific aging evaluation required	BWR/PWR	ESP-11	VI-A-10(LP-11)								
Yes	No	No	VI	A	P-33	GWP Tables II Through VIII		M	VI.A.LP-33	E.6-1, 8	Electrical insulation material for electrical cables and [redacted]	Various organic polymers	Adverse localized environment caused by heat, radiation, or	Reduced electrical resistance due to thermal/thermoelectric	AMP XI.E1, "Insulation Material for Electrical Cables and Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements"	No	BWR/PWR	ESP-101	VI-A-3(L-101)								
No	No	No	VI	A	P-34	GWP Tables II Through VIII		M	VI.A.LP-34	E.6-1, 9	Electrical conductor insulation material for electrical cables and [redacted]	Various organic polymers	Adverse localized environment caused by heat, radiation, or	Reduced electrical resistance due to thermal/thermoelectric	AMP XI.E1, "Insulation Material for Electrical Cables and Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements Used in Instrumentation Circuits"	No	BWR/PWR	ESP-102	VI-A-3(L-102)								
Yes	No	No	VI	A	P-35	GWP Tables II Through VIII		M	VI.A.LP-35	E.6-1, 10	Electrical conductor insulation material for electrical cables and [redacted]	Various organic polymers	Adverse localized environment caused by heat, radiation, or	Reduced electrical resistance due to thermal/thermoelectric	AMP's XI.E [redacted]	No	BWR/PWR	ESP-103	VI-A-4(L-103)								
No	No	No	VI	A	P-36	GWP Tables II Through VIII		M	VI.A.LP-36	E.6-1, 20	Metallic connector contacts for electrical connectors exposed to borated water	Various metals used for electrical	Air with borated water leakage	Increased electrical resistance of connection due to corrosion of contacts	AMP XI.M10, "Boric Acid Corrosion"	No	PWR	ESP-38	VI-A-5(L-104)								
No	No	No	VI	A	P-38	GWP Tables II Through VIII			VI.A.LP-38	E.6-1, 4	Transmission conductors	Aluminum; steel	AU – outdoor	Loss of conductor strength due to corrosion	A plant-specific aging management program is to be evaluated for aluminum Conductor Steel Reinforced (ACSR)	Yes, plant-specific	BWR/PWR	ESP-108	VI-A-16(LP-108)								
No	No	No	VI	A	P-39	GWP Tables II Through VIII			VI.A.LP-39	E.6-1, 6	Switchyard bus and connections	Aluminum; copper; bronze;	AU – outdoor	Loss of material due to wind-induced abrasion; increased resistance of connection due	A plant-specific aging management program is to be evaluated	Yes, plant-specific	BWR/PWR	ESP-106	VI-A-15(LP-106)								
No	No	No	VI	A	P-41	GWP Tables II Through VIII			VI.A.LP-41	E.6-1, 23	Metal enclosed bus; external surface of enclosure assemblies	Galvanized steel; aluminum	AU – indoor, controlled or uncontrolled	None	None	No	BWR/PWR	ESP-106	VI-A-13(LP-106)								
No	No	No	VI	A	P-42	GWP Tables II Through VIII			VI.A.LP-42	E.6-1, 15	Metal enclosed bus; external surface of enclosure assemblies	Galvanized steel; aluminum	AU – outdoor	Loss of material due to pitting, crevice corrosion	AMP XI.E4, "Metal Enclosed Bus," or AMP XI.S6, "Structures Monitoring"	No	BWR/PWR	ESP-106	VI-A-13(LP-106)								

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Yes	No	No	VII	J	AP-268	GRP Tables 5.1-1 through 5.6-1 Updates		M	VII.J.AP-268	3.3-1, 119	Piping, piping components, and piping elements	PVC	NU – indoor, uncontrolled	None	None	No	BWRVIP	New Record														
Yes	No	No	VII	J	AP-269	GRP Tables 5.1-1 through 5.6-1 Updates		M	VII.J.AP-269	3.3-1, 119	Piping, piping components, and piping elements	PVC	Condensation (internal), treated water, raw water	None	None	No	BWRVIP	New Record														
Yes	No	No	VII	J	AP-277	GRP Tables 5.1-1 through 5.6-1 Updates		M	VII.J.AP-277	3.3-1, 119	Piping, piping components, and piping elements	Glass	Waste Water	None	None	No	BWRVIP	New Record														
Yes	No	No	VII	J	AP-282	GRP Tables 5.1-1 through 5.6-1 Updates		M	VII.J.AP-282	3.3-1, 112	Piping, piping components, and piping elements	Steel	Concrete	None	Piping encased in wall/slab of the concrete are considered with AP-282 and AP-283 line item in order to avoid duplicity, as it will result in same component as cited in AMP's XI.E1 and XI.E2	BWRVIP	AP-3	EPRI 1022994	XI.M41 Expert Panel													
Yes	No	No	VII	J	AP-36	GRP Tables 5.1-1 through 5.6-1 Updates		M	VII.J.AP-36	3.3-1, 113	Piping, piping components, and piping elements	Aluminum	NU – indoor, controlled (external)	None	None	No	BWRVIP		VII.J-1(AP-36)													
Yes	No	No	VII	J	AP-37	GRP Tables 5.1-1 through 5.6-1 Updates		M	VII.J.AP-37	3.3-1, 113	Piping, piping components, and piping elements	Aluminum	Gas	None	None	No	BWRVIP		VII.J-2(AP-37)													
Yes	No	No	VII	J	AP-4	GRP Tables 5.1-1 through 5.6-1 Updates		M	VII.J.AP-4	3.3-1, 121	Piping, piping components, and piping elements	Steel	NU – dry	None	None	No	BWRVIP		VII.J-23(AP-4)													
No	No	No	VII	J	AP-48	GRP Tables 5.1-1 through 5.6-1 Updates			VII.J.AP-48	3.3-1, 117	Piping elements	Glass	Air	None	None	No	BWRVIP		VII.J-7(AP-48)													
No	No	No	VII	J	AP-49	GRP Tables 5.1-1 through 5.6-1 Updates			VII.J.AP-49	3.3-1, 117	Piping elements	Glass	Fuel oil	None	None	No	BWRVIP		VII.J-9(AP-49)													
No	No	No	VII	J	AP-50	GRP Tables 5.1-1 through 5.6-1 Updates			VII.J.AP-50	3.3-1, 117	Piping elements	Glass	Raw water	None	None	No	BWRVIP		VII.J-11(AP-50)													
No	No	No	VII	J	AP-51	GRP Tables 5.1-1 through 5.6-1 Updates			VII.J.AP-51	3.3-1, 117	Piping elements	Glass	Treated water	None	None	No	BWRVIP		VII.J-13(AP-51)													
No	No	No	VII	J	AP-52	GRP Tables 5.1-1 through 5.6-1 Updates			VII.J.AP-52	3.3-1, 117	Piping elements	Glass	Treated borated water	None	None	No	BWRVIP		VII.J-12(AP-52)													
Yes	No	No	VII	J	AP-6	GRP Tables 5.1-1 through 5.6-1 Updates		M	VII.J.AP-6	3.3-1, 121	Piping, piping components, and piping elements	Steel	Gas	None	None	No	BWRVIP		VII.J-23(AP-6)													
Yes	No	No	VII	J	AP-8	GRP Tables 5.1-1 through 5.6-1 Updates		M	VII.J.AP-8	3.3-1, 114	Piping, piping components, and piping elements	Copper alloy	NU – dry	None	None	No	BWRVIP		VII.J-4(AP-8)													
Yes	No	No	VII	J	AP-9	GRP Tables 5.1-1 through 5.6-1 Updates		M	VII.J.AP-9	3.3-1, 114	Piping, piping components, and piping elements	Copper alloy	Gas	None	None	No	BWRVIP		VII.J-4(AP-9)													
No	No	No	VII	J	AP-96	GRP Tables 5.1-1 through 5.6-1 Updates			VII.J.AP-96	3.3-1, 117	Piping elements	Glass	Air with borated water leakage	None	None	No	BWRVIP	New Record													
No	No	No	VII	J	AP-97	GRP Tables 5.1-1 through 5.6-1 Updates			VII.J.AP-97	3.3-1, 117	Piping elements	Glass	Condensation (internal/External)	None	None	No	BWRVIP	New Record													
No	No	No	VII	J	AP-98	GRP Tables 5.1-1 through 5.6-1 Updates			VII.J.AP-98	3.3-1, 117	Piping elements	Glass	Gas	None	None	No	BWRVIP	New Record													
Yes	No	No	VIII	A	S-15	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.S-15	3.4-1, 3	Piping, piping components, and piping elements	Steel	Steam	Wall thinning due to flow-accelerated corrosion	AMP XI.M17, "Flow-Accelerated Corrosion"	No	BWRVIP		VIII.A-17(S-15)													
Yes	No	No	VIII	A	S-23	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.S-23	3.4-1, 25	Heat exchanger components	Steel	Closed-cycle cooling water	Loss of material due to general, pitting, crevice corrosion, and MIC	AMP XI.M21A, "Closed Treated Water Systems"	No	BWRVIP		VIII.A-1(S-23)													
Yes	No	No	VIII	A	A-600	GRP Tables 5.1-1 through 5.6-1 Updates	GR-SIG-2012-02	M	VIII.A.A-600	3.4-1, 61	Piping, piping components, tanks	Metallic	Raw water, waste water	Loss of material due to recurring internal corrosion	Plant specific aging management program is to be evaluated	Yes – plant specific	BWRVIP													
Yes	No	No	VIII	A	S-401	GRP Tables 5.1-1 through 5.6-1 Updates	GR-SIG-2012-02	M	VIII.A.S-401	3.4-1, 66	Piping, piping components, heat exchangers, tanks, heat exchanger components and tubes	Metallic, non-stainless steel, strengthening bolting, stainless steel, cast austenitic stainless steel	Closed-cycle cooling water, raw water, treated water, treated borated water	Loss of coating or lining integrity due to blistering, cracking, flaking, peeling, delamination, and rusting	AMP XI.M42, "Internal Coatings/Linings for Steel Components, Heat Exchangers, and Tanks"	No	BWRVIP													
Yes	No	No	VIII	A	A-602	GR-SIG-2012-02	D	VIII.A.A-602							AMP XI.M36, "External Surfaces Monitoring of Mechanical Components" or AMP XI.M27, "Fire Water System"	No	BWRVIP													
Yes	No	No	VIII	A	S-414	GRP Tables 5.1-1 through 5.6-1 Updates	GR-SIG-2013-01	M	VIII.A.S-414	3.4-1, 67	Piping, piping components, heat exchangers, tanks	Metallic, non-stainless steel, strengthening bolting, stainless steel, cast austenitic stainless steel	Closed-cycle cooling water, raw water, treated water, treated borated water	Loss of material due to general, pitting, crevice corrosion, MIC, fouling that leads to corrosion, and microbiologically influenced corrosion	AMP XI.M42, "Internal Coatings/Linings for Steel Components, Heat Exchangers, and Tanks"	No	BWRVIP													
Yes	No	No	VIII	A	S-416	GRP Tables 5.1-1 through 5.6-1 Updates	GR-SIG-2013-01	M	VIII.A.S-416	3.4-1, 68	Piping components with internal coating/linings	Gray cast iron	Closed-cycle cooling water, raw water, treated water, treated borated water	Loss of material due to selective leaching	AMP XI.M42, "Internal Coatings/Linings for Steel Components, Heat Exchangers, and Tanks"	No	BWRVIP													
Yes	Yes	No	VIII	A	S-432	GRP Tables 5.1-1 through 5.6-1 Updates		N	VIII.A.S-432	3.4-1, 61	Tank	Steel	Condensate, raw water, waste water	Loss of material due to general, pitting, crevice corrosion, and MIC	AMP XI.M30, "One-Time Inspection"	No	BWRVIP													
Yes	Yes	No	VIII	A	A-696	GRP Tables 5.1-1 through 5.6-1 Updates		N	VIII.A.S-432	3.4-1, 61	Tank	Steel – internal, submerged, stainless steel – internal, submerged	Raw water	Loss of material due to general, pitting, crevice corrosion, and MIC	AMP XI.M29, "Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components"	No	BWRVIP													
Yes	No	No	VIII	A	SP-157	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-157	3.4-1, 16	Piping, piping components, and piping elements	Copper alloy	Treated water	Loss of material due to general, pitting, crevice corrosion, and MIC	AMP XI.M2, "Water Chemistry," and AMP XI.M32, "One-Time Inspection"	No	BWRVIP	SP-61	VIII.A-5(SP-61)													
Yes	No	No	VIII	A	SP-118	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-118	3.4-1, 2	Piping, piping components, and piping elements	Stainless steel	Air – outdoor	Cracking due to stress corrosion cracking	AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	Yes – environmental conditions need to be evaluated	BWRVIP	New Record													
Yes	No	No	VIII	A	SP-127	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-127	3.4-1, 3	Piping, piping components, and piping elements	Stainless steel	Air – outdoor	Loss of material due to pitting, crevice corrosion	AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	Yes – environmental conditions need to be evaluated	BWRVIP	New Record													
Yes	No	No	VIII	A	SP-152	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-152	3.4-1, 84	Piping, piping components, and piping elements	Stainless steel	Steam	Loss of material due to pitting, crevice corrosion	AMP XI.M2, "Water Chemistry," and AMP XI.M32, "One-Time Inspection"	No	BWRVIP	SP-43	VIII.A-12(SP-43)													
Yes	No	No	VIII	A	SP-27	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-27	3.4-1, 33	Piping, piping components, and piping elements	Gray cast iron	Treated water	Loss of material due to selective leaching	AMP XI.M33, "Selective Leaching"	No	BWRVIP		VIII.A-6(SP-27)													
Yes	No	No	VIII	A	SP-28	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-28	3.4-1, 33	Piping, piping components, and piping elements	Gray cast iron	Raw water	Loss of material due to selective leaching	AMP XI.M33, "Selective Leaching"	No	BWRVIP		VIII.A-7(SP-28)													
Yes	No	No	VIII	A	SP-30	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-30	3.4-1, 33	Piping, piping components, and piping elements	Copper alloy >15% Zn or >8% Al	Raw water	Loss of material due to selective leaching	AMP XI.M33, "Selective Leaching"	No	BWRVIP		VIII.A-6(SP-30)													
Yes	No	No	VIII	A	SP-31	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-31	3.4-1, 20	Piping, piping components, and piping elements	Copper alloy	Raw water	Loss of material due to general, pitting, crevice and galvanic corrosion, MIC, and fouling	AMP XI.M20, "Open-Cycle Cooling Water System"	No	BWRVIP		VIII.A-6(SP-31)													
Yes	No	No	VIII	A	SP-64	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-64	3.4-1, 26	Heat exchanger components and tubes	Steel	Closed-cycle cooling water	Reduction of heat transfer due to fouling	AMP XI.M21A, "Closed Treated Water Systems"	No	BWRVIP		VIII.A-2(SP-64)													
Yes	No	No	VIII	A	SP-71	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-71	3.4-1, 14	Piping, piping components, and piping elements	Steel	Steam	Loss of material due to general, pitting, crevice corrosion	AMP XI.M2, "Water Chemistry," and AMP XI.M32, "One-Time Inspection"	No	BWRVIP	D-04	VIII.A-15(S-04)													
Yes	No	No	VIII	A	SP-91	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-91	3.4-1, 40	Piping, piping components, and piping elements	Steel	Lubricating oil	Loss of material due to general, pitting, crevice corrosion, and fouling	AMP XI.M39, "Lubricating Oil Analysis," and AMP XI.M32, "One-Time Inspection"	No	BWRVIP	SP-35	VIII.A-14(SP-35)													
Yes	No	No	VIII	A	SP-92	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-92	3.4-1, 43	Piping, piping components, and piping elements	Copper alloy	Lubricating oil	Loss of material due to general, pitting, crevice corrosion	AMP XI.M39, "Lubricating Oil Analysis," and AMP XI.M32, "One-Time Inspection"	No	BWRVIP	SP-32	VIII.A-3(SP-32)													
Yes	No	No	VIII	A	SP-95	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-95	3.4-1, 44	Piping, piping components, and piping elements	Stainless steel	Lubricating oil	Loss of material due to pitting, crevice corrosion	AMP XI.M39, "Lubricating Oil Analysis," and AMP XI.M32, "One-Time Inspection"	No	BWRVIP	SP-38	VIII.A-9(SP-38)													
Yes	No	No	VIII	A	SP-96	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.A.SP-96	3.4-1, 11	Piping, piping components, and piping elements	Stainless steel	Steam	Cracking due to stress corrosion cracking	AMP XI.M2, "Water Chemistry," and AMP XI.M32, "One-Time Inspection"	No	BWRVIP	SP-65	VIII.A-11(SP-45)													
Yes	No	No	VIII	B1	S-08	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.S-08	3.4-1, 1	Piping, piping components, and piping elements	Steel	Steam, treated water	Cumulative fatigue damage due to fatigue	TLAA, evaluated in accordance with 10 CFR 54.21(c)(1). A one-time inspection of select locations is to be conducted prior to the end of the current period of extended operation. See the GRP Aging Section 4.3 "Metal Fatigue of Reactor Coolant Pressure Boundary" for additional information.	Yes – TLAA	PWR		VIII.B1-10(S-08)													
Yes	No	No	VIII	B1	S-15	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.S-15	3.4-1, 5	Piping, piping components, and piping elements	Steel	Steam	Wall thinning due to flow-accelerated corrosion	AMP XI.M17, "Flow-Accelerated Corrosion"	No	PWR		VIII.B1-9(S-15)													
Yes	No	No	VIII	B1	S-600	GRP Tables 5.1-1 through 5.6-1 Updates	GR-SIG-2012-02	M	VIII.B1.S-600	3.4-1, 61	Piping, piping components, tanks	Metallic	Raw water, waste water	Loss of material due to recurring internal corrosion	Plant specific aging management program is to be evaluated	Yes – plant specific	BWRVIP													
Yes	No	No	VIII	B1	S-601	GRP Tables 5.1-1 through 5.6-1 Updates	GR-SIG-2013-01	M	VIII.B1.S-601	3.4-1, 66	Piping, piping components, heat exchangers, tanks, heat exchanger components and tubes	Metallic, non-stainless steel, strengthening bolting, stainless steel, cast austenitic stainless steel	Closed-cycle cooling water, raw water, treated water, treated borated water	Loss of coating or lining integrity due to blistering, cracking, flaking, peeling, delamination, and rusting	AMP XI.M42, "Internal Coatings/Linings for Steel Components, Heat Exchangers, and Tanks"	No	BWRVIP													
Yes	No	Yes	VIII	B1	S-602	GR-SIG-2012-02	D	VIII.B1.S-602							AMP XI.M36, "External Surfaces Monitoring of Mechanical Components" or AMP XI.M27, "Fire Water System"	No	BWRVIP													
Yes	No	No	VIII	B1	S-414	GRP Tables 5.1-1 through 5.6-1 Updates	GR-SIG-2013-01	M	VIII.B1.S-414	3.4-1, 67	Piping, piping components, heat exchangers, tanks	Metallic, non-stainless steel, strengthening bolting, stainless steel, cast austenitic stainless steel	Closed-cycle cooling water, raw water, treated water, treated borated water	Loss of material due to general, pitting, crevice corrosion, MIC, fouling that leads to corrosion, and microbiologically influenced corrosion	AMP XI.M42, "Internal Coatings/Linings for Steel Components, Heat Exchangers, and Tanks"	No	BWRVIP													
Yes	No	No	VIII	B1	S-416	GRP Tables 5.1-1 through 5.6-1 Updates	GR-SIG-2013-01	M	VIII.B1.S-416	3.4-1, 68	Piping components with internal coating/linings	Gray cast iron	Closed-cycle cooling water, raw water, treated water, treated borated water	Loss of material due to selective leaching	AMP XI.M42, "Internal Coatings/Linings for Steel Components, Heat Exchangers, and Tanks"	No	BWRVIP													
Yes	Yes	No	VIII	B1	S-432	GRP Tables 5.1-1 through 5.6-1 Updates		N	VIII.B1.S-432	3.4-1, 61	Tank	Steel	Condensate, raw water, waste water	Loss of material due to general, pitting, crevice corrosion, and MIC	AMP XI.M30, "One-Time Inspection"	No	BWRVIP													
Yes	No	No	VIII	B1	SP-110	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-110	3.4-1, 39	Piping, piping components, and piping elements	Stainless steel	Condensation (internal)	Loss of material due to pitting and crevice corrosion	AMP XI.M29, "Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components"	No	BWRVIP	New Record													
Yes	No	No	VIII	B1	SP-118	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-118	3.4-1, 2	Piping, piping components, and piping elements	Stainless steel	Air – outdoor	Cracking due to stress corrosion cracking	AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	Yes – environmental conditions need to be evaluated	BWRVIP	New Record													
Yes	No	No	VIII	B1	SP-127	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-127	3.4-1, 3	Piping, piping components, and piping elements	Stainless steel	Air – outdoor	Loss of material due to pitting, crevice corrosion	AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	Yes – environmental conditions need to be evaluated	BWRVIP	New Record													
Yes	No	No	VIII	B1	SP-152	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-152	3.4-1, 84	Piping, piping components, and piping elements	Stainless steel	Steam	Loss of material due to pitting, crevice corrosion	AMP XI.M2, "Water Chemistry," and AMP XI.M32, "One-Time Inspection"	No	BWRVIP	SP-43	VIII.B1-3(SP-43)													
Yes	No	No	VIII	B1	SP-157	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-157	3.4-1, 84	Piping, piping components, and piping elements	Nickel alloy	Steam	Loss of material due to pitting, crevice corrosion	AMP XI.M2, "Water Chemistry," and AMP XI.M32, "One-Time Inspection"	No	PWR	SP-18	VIII.B1-5(SP-18)													
Yes	No	No	VIII	B1	SP-59	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-59	3.4-1, 36	Piping, piping components, and piping elements	Steel	NU – outdoor (internal)	Loss of material due to general, pitting, crevice corrosion	AMP XI.M29, "Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components"	No	PWR		VIII.B1-6(SP-59)													
Yes	No	No	VIII	B1	SP-60	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-60	3.4-1, 37	Piping, piping components, and piping elements	Steel	Condensation (internal)	Loss of material due to general, pitting, crevice corrosion	AMP XI.M29, "Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components"	No	PWR		VIII.B1-7(SP-60)													
Yes	No	No	VIII	B1	SP-71	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-71	3.4-1, 14	Piping, piping components, and piping elements	Steel	Steam	Loss of material due to general, pitting, crevice corrosion	AMP XI.M2, "Water Chemistry," and AMP XI.M32, "One-Time Inspection"	No	PWR	D-07	VIII.B1-8(S-07)													
Yes	No	No	VIII	B1	SP-74	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-74	3.4-1, 13	Piping, piping components, and piping elements	Steel	Treated water	Loss of material due to general, pitting, crevice corrosion, and MIC	AMP XI.M2, "Water Chemistry," and AMP XI.M32, "One-Time Inspection"	No	PWR	S-13	VIII.B1-11(S-10)													
Yes	No	No	VIII	B1	SP-87	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-87	3.4-1, 85	Piping, piping components, and piping elements	Stainless steel	Treated water	Loss of material due to pitting, crevice corrosion, and MIC	AMP XI.M2, "Water Chemistry," and AMP XI.M32, "One-Time Inspection" and plant-specific aging management program	No – plant specific	PWR	SP-16	VIII.B1-4(SP-16)													
Yes	No	No	VIII	B1	SP-88	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-88	3.4-1, 11	Piping, piping components, and piping elements	Stainless steel	Treated water >60°C (>140°F)	Cracking due to stress corrosion cracking	AMP XI.M2, "Water Chemistry," and AMP XI.M32, "One-Time Inspection"	No	PWR	SP-17	VIII.B1-5(SP-17)													
Yes	No	No	VIII	B1	SP-98	GRP Tables 5.1-1 through 5.6-1 Updates		M	VIII.B1.SP-98	3.4-1, 11	Piping, piping components, and piping elements	Stainless steel	Steam	Cracking due to stress corrosion cracking	AMP XI.M2, "Water Chemistry," and AMP XI.M32, "One-Time Inspection"	No	PWR	SP-44	VIII.B1-2(SP-44)													

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Yes	Yes	No	VIII	H	E-418	GRP Tables II.1-1 Through II.6-[illegible]			N	VIII.H.S-419	II.4-1, 50	Bolting	Copper alloy	Raw water, potable water	Loss of material due to general, pitting, crevice corrosion, MIC, and fouling	AMP XI.M38, "Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components"	No								<<Disposition: F-J Items for SLR>> 3019-000163	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>
Yes	Yes	No	VIII	H	E-419	GRP Tables II.1-1 Through II.6-[illegible]			N	VIII.H.S-419	II.4-1, 71	Bolting	Steel	Lubrication Oil	Loss of material due to general, pitting, crevice corrosion, MIC	AMP XI.M38, "Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components"	No								<<Disposition: F-J Items for SLR>> 3019-000163	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>
Yes	No	No	VIII	H	E-42	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.H.S-42	II.4-1, 34	External surfaces	Steel	Condensation (External)	Loss of material due to general, pitting, crevice corrosion	AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No							VIII.H-10(SI-42)					
Yes	Yes	No	VIII	H	E-425	GRP Tables II.1-1 Through II.6-[illegible]			N	VIII.H.S-425	II.4-1, 72	Underground piping components and piping elements	Stainless steel	Soil – buried	Loss of material due to pitting, crevice corrosion	AMP XI.M41, "Buried and Underground Piping and Tanks"	Yes								<<Disposition: F-J Items for SLR>> 3019-000163	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>
Yes	Yes	No	VIII	H	E-426	GRP Tables II.1-1 Through II.6-[illegible]			N	VIII.H.S-426	II.4-1, 73	Heat exchanger pressure boundary	Stainless steel, alloy steel, aluminum	Air – outdoor	Reduction of heat transfer due to fouling	AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No								<<Disposition: F-J Items for SLR>> 3019-000163	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>
Yes	Yes	No	VIII	H	E-428	GRP Tables II.1-1 Through II.6-[illegible]			N	VIII.H.S-428	II.4-1, 74	Heat exchanger pressure boundary	Stainless steel, alloy steel, aluminum	Air – outdoor	Reduction of heat transfer due to fouling; Loss of material due to general, pitting, crevice corrosion	AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No								<<Disposition: F-J Items for SLR>> 3019-000163	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>
Yes	Yes	No	VIII	H	E-431	GRP Tables II.1-1 Through II.6-[illegible]			N	VIII.H.S-431	II.4-1, 80	Heat exchanger pressure boundary	Aluminum, copper alloy, stainless steel	Condensate	Loss of material due to general, pitting, crevice corrosion; Reduction of heat transfer due to fouling	AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No												
Yes	Yes	No	VIII	H	E-434	GRP Tables II.1-1 Through II.6-[illegible]			N	VIII.H.S-434	II.4-1, 81	Insulated bolts	Steel; stainless steel	Condensation, air – indoor uncontrolled	Loss of material due to general, pitting, crevice corrosion	AMP XI.M36, "Aboveground Metallic Tanks"	No												
Yes	No	No	VIII	H	SP-141	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.H.SP-141	II.4-1, 50	Bolting	Steel	Soil, concrete	Loss of material due to general, pitting, crevice corrosion, MIC, SCC	AMP XI.M41, "Buried and Underground Piping and Tanks"	No												
Yes	No	No	VIII	H	SP-142	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.H.SP-142	II.4-1, 9	Bolting	Steel	Soil	Loss of preload due to thermal effects, gasket creep, or self-loosening; Loss of material due to general, pitting, crevice corrosion, MIC	AMP XI.M18, "Bolting Integrity"	No								<<Disposition: F-J Items for SLR>> 3019-000163	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>
Yes	No	No	VIII	H	SP-143	GRP Tables II.1-1 Through II.6-[illegible]	CN-ISG-2011-03		M	VIII.H.SP-143	II.4-1, 48	Bolting	Stainless steel, nickel alloy	Soil, concrete	Loss of material due to pitting, crevice corrosion, MIC (soil environment only)	AMP XI.M41, "Buried and Underground Piping and Tanks"	No								<<Disposition: Buried Piping ISG>> 3008-000001	<<Disposition: Buried Piping ISG>> Various GALL and SRP content is being modified to address items raised in the ISG. This include modification to the aging	<<Disposition: Buried Piping ISG>>	<<Disposition: Buried Piping ISG>>	<<Disposition: Buried Piping ISG>>
Yes	No	No	VIII	H	SP-144	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.H.SP-144	II.4-1, 6	Bolting	Stainless Steel	Soil	Loss of preload due to thermal effects, gasket creep, or self-loosening; Loss of material due to pitting, crevice corrosion	AMP XI.M18, "Bolting Integrity"	No								<<Disposition: F-J Items for SLR>> 3019-000163	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>	<<Disposition: F-J Items for SLR>>
Yes	No	No	VIII	H	SP-147	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.H.SP-147	II.4-1, 35	Piping, piping components, and piping elements	Aluminum	Air – outdoor	Loss of material due to pitting, crevice corrosion	AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"	No												
No	No	No	VIII	H	SP-148	GRP Tables II.1-1 Through II.6-[illegible]				VIII.H.SP-148	II.4-1, 10	Bolting	Copper alloy	Any environment	Loss of preload due to thermal effects, gasket creep, or self-loosening	AMP XI.M18, "Bolting Integrity"	No												
No	No	No	VIII	H	SP-150	GRP Tables II.1-1 Through II.6-[illegible]				VIII.H.SP-150	II.4-1, 10	Bolting	Nickel alloy	Any environment	Loss of preload due to thermal effects, gasket creep, or self-loosening	AMP XI.M18, "Bolting Integrity"	No												
No	No	No	VIII	H	SP-151	GRP Tables II.1-1 Through II.6-[illegible]				VIII.H.SP-151	II.4-1, 10	Bolting	Steel; stainless steel	Air – outdoor (External)	Loss of preload due to thermal effects, gasket creep, or self-loosening	AMP XI.M18, "Bolting Integrity"	No												
Yes	No	No	VIII	H	SP-161	GRP Tables II.1-1 Through II.6-[illegible]	CN-ISG-2011-03		M	VIII.H.SP-161	II.4-1, 66a	Underground piping, piping components, and piping elements	Steel; stainless steel; nickel alloy	Air – indoor uncontrolled, condensation, etc.	Loss of material due to general (steel; copper alloy only), pitting, crevice	AMP XI.M41, "Buried and Underground piping and Tanks"	No								<<Disposition: Buried Piping ISG>> 3008-000001	<<Disposition: Buried Piping ISG>> Various GALL and SRP content is being modified to address items raised in the ISG. This include modification to the aging	<<Disposition: Buried Piping ISG>>	<<Disposition: Buried Piping ISG>>	<<Disposition: Buried Piping ISG>>
No	No	No	VIII	H	SP-162	GRP Tables II.1-1 Through II.6-[illegible]				VIII.H.SP-162	II.4-1, 8	Bolting	Steel; stainless steel	Air – outdoor (External)	Loss of preload due to thermal effects, gasket creep, or self-loosening; Loss of material due to general (steel only), pitting, crevice corrosion	AMP XI.M18, "Bolting Integrity"	No												
Yes	No	No	VIII	H	SP-163	GRP Tables II.1-1 Through II.6-[illegible]				VIII.H.SP-163	II.4-1, 10	Closure bolting	Steel; stainless steel	Air – indoor, uncontrolled (External)	Loss of preload due to thermal effects, gasket creep, or self-loosening; Loss of material due to general (steel only), pitting, crevice corrosion	AMP XI.M18, "Bolting Integrity"	No												
Yes	No	No	VIII	H	SP-164	GRP Tables II.1-1 Through II.6-[illegible]				VIII.H.SP-164	II.4-1, 9	Closure bolting	Steel; stainless steel	Air – indoor, uncontrolled (External)	Loss of preload due to thermal effects, gasket creep, or self-loosening; Loss of material due to general (steel only), pitting, crevice corrosion	AMP XI.M18, "Bolting Integrity"	No												
Yes	No	No	VIII	I	A-404		CN-ISG-2012-03	D	~~VIII.I.A-404~~	~~Insulated insulation~~	~~Carbon or cast iron (CASS)~~	~~Air – indoor uncontrolled or air – outdoor~~	~~Reduced thermal insulation resistance due to moisture~~	~~None~~	~~AMP XI.M36, "External Surfaces Monitoring of Mechanical Components"~~	No							GALL-SLR Report AMR line item VIII.I.A-404 was deleted because the material, environment, aging effect, and AMP are	<<Disposition: Aging Management of Internal Surfaces, Service Level III and Other Coatings, Atmospheric Storage Tanks, and	<<Disposition: Aging Management of Internal Surfaces, Service Level III and Other Coatings, Atmospheric Storage Tanks, and Corrosion Under Insulation>>	<<Disposition: Aging Management of Internal Surfaces, Service Level III and Other Coatings, Atmospheric Storage Tanks, and Corrosion Under Insulation>>	<<Disposition: Aging Management of Internal Surfaces, Service Level III and
Yes	Yes	No	VIII	I	E-435	GRP Tables II.1-1 Through II.6-[illegible]			N	VIII.I.E-435	II.4-1, 89	Heat exchanger components	Copper alloy	Air with borated water leakage	None	None	No	PWR											
Yes	No	No	VIII	I	SP-1	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-1	II.4-1, 99	Piping, piping components, and piping elements	Steel	Air – indoor, controlled (external)	None	None	No	BWR/PWR		VIII.I-13(SP-1)								
No	No	No	VIII	I	SP-10	GRP Tables II.1-1 Through II.6-[illegible]				VIII.I.SP-10	II.4-1, 55	Piping elements	Glass	Lubricating oil	None	None	No	BWR/PWR		VIII.I-6(SP-10)								
Yes	No	No	VIII	I	SP-104	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-104	II.4-1, 63	Piping, piping components, and piping elements	Copper alloy >15% Zn or >8% Al	Air with borated water leakage	None	None	No	PWR	New Record								
No	No	No	VIII	I	SP-108	GRP Tables II.1-1 Through II.6-[illegible]				VIII.I.SP-108	II.4-1, 55	Piping elements	Glass	Air – outdoor	None	None	No	BWR/PWR	New Record								
Yes	No	No	VIII	I	SP-11	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-11	II.4-1, 56	Piping, piping components, and piping elements	Nickel alloy	Air – indoor, uncontrolled (external)	None	None	No	BWR/PWR		VIII.I-9(SP-11)								
Yes	No	Yes	VIII	I	SP-111			D	~~VIII.I.SP-111~~	~~Piping, piping and components~~	~~Steel~~	~~Condensation, external (External)~~	~~None~~	~~None~~	No	BWR/PWR	New Record		Duplicated VIII.I.SP-98								
Yes	No	No	VIII	I	SP-12	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-12	II.4-1, 58	Piping, piping components, and piping elements	Stainless steel	Air – indoor, uncontrolled (external)	None	None	No	BWR/PWR		VIII.I-10(SP-12)								
Yes	No	No	VIII	I	SP-13	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-13	II.4-1, 82	Piping, piping components, and piping elements	Stainless steel	Concrete	None	None	No [illegible]	BWR/PWR		VIII.I-11(SP-13)	XI.M41 Expert Panel		<<Disposition: XI.M41 Expert Panel>> 3008-000001 3007-000001	<<Disposition: XI.M41 Expert Panel>>	<<Disposition: XI.M41 Expert Panel>>	<<Disposition: XI.M41 Expert Panel>>	<<Disposition: XI.M41 Expert Panel>>
Yes	No	No	VIII	I	SP-148	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-148	II.4-1, 57	Piping, piping components, and piping elements	Nickel alloy	Air with borated water leakage	None	None	No	BWR/PWR	New Record								
Yes	No	No	VIII	I	SP-15	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-15	II.4-1, 58	Piping, piping components, and piping elements	Stainless steel	Gas	None	None	No	BWR/PWR		VIII.I-12(SP-15)								
Yes	No	No	VIII	I	SP-152	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-152	II.4-1, 57	Piping, piping components, and piping elements	PVC	Air – indoor, uncontrolled	None	None	No	BWR/PWR	New Record								
Yes	No	No	VIII	I	SP-153	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-153	II.4-1, 57	Piping, piping components, and piping elements	PVC	Condensation (internal)	None	None	No	BWR/PWR	New Record								
Yes	No	No	VIII	I	SP-154	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-154	II.4-1, 51	Piping, piping components, and piping elements	Steel	Concrete	None	None; exempt if 1) stiffness of the concrete are consistent with ACI 349 or ACI 349-like; refer to element note "b"; and 2) the amount of settlement is also a function of SCC and is exempt	No; if conditions are met	BWR/PWR	EP-3	VIII.I-16(SP-2)	XI.M41 Expert Panel		<<Disposition: XI.M41 Expert Panel>> 3008-000001 3007-000001	<<Disposition: XI.M41 Expert Panel>>	<<Disposition: XI.M41 Expert Panel>>	<<Disposition: XI.M41 Expert Panel>>
Yes	No	No	VIII	I	SP-23	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-23	II.4-1, 52	Piping, piping components, and piping elements	Aluminum	Gas	None	None	No	BWR/PWR		VIII.I-15(SP-23)								
No	No	No	VIII	I	SP-33	GRP Tables II.1-1 Through II.6-[illegible]				VIII.I.SP-33	II.4-1, 55	Piping elements	Glass	Air	None	None	No	BWR/PWR		VIII.I-4(SP-33)								
No	No	No	VIII	I	SP-34	GRP Tables II.1-1 Through II.6-[illegible]				VIII.I.SP-34	II.4-1, 55	Piping elements	Glass	Raw water	None	None	No	BWR/PWR		VIII.I-7(SP-34)								
No	No	No	VIII	I	SP-35	GRP Tables II.1-1 Through II.6-[illegible]				VIII.I.SP-35	II.4-1, 55	Piping elements	Glass	Treated water	None	None	No	BWR/PWR		VIII.I-8(SP-35)								
Yes	No	No	VIII	I	SP-4	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-4	II.4-1, 59	Piping, piping components, and piping elements	Steel	Gas	None	None	No	BWR/PWR		VIII.I-15(SP-4)								
Yes	No	No	VIII	I	SP-5	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-5	II.4-1, 54	Piping, piping components, and piping elements	Copper alloy	Gas	None	None	No	BWR/PWR		VIII.I-9(SP-5)								
No	No	No	VIII	I	SP-6	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-6	II.4-1, 54	Piping, piping components, and piping elements	Copper alloy	Air – indoor, uncontrolled (external)	None	None	No	BWR/PWR		VIII.I-9(SP-6)								
No	No	No	VIII	I	SP-67	GRP Tables II.1-1 Through II.6-[illegible]				VIII.I.SP-67	II.4-1, 55	Piping elements	Glass	Air with borated water leakage	None	None	No	BWR/PWR	New Record								
No	No	No	VIII	I	SP-68	GRP Tables II.1-1 Through II.6-[illegible]				VIII.I.SP-68	II.4-1, 55	Piping elements	Glass	Condensation	None	None	No	BWR/PWR	New Record								
No	No	No	VIII	I	SP-69	GRP Tables II.1-1 Through II.6-[illegible]				VIII.I.SP-69	II.4-1, 55	Piping elements	Glass	Gas	None	None	No	BWR/PWR	New Record								
No	No	No	VIII	I	SP-70	GRP Tables II.1-1 Through II.6-[illegible]				VIII.I.SP-70	II.4-1, 55	Piping elements	Glass	Closed-cycle cooling water	None	None	No	BWR/PWR	New Record								
Yes	No	No	VIII	I	SP-86	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-86	II.4-1, 58	Piping, piping components, and piping elements	Stainless steel	Air – indoor, uncontrolled (External)	None	None	No	BWR/PWR	New Record								
No	No	No	VIII	I	SP-9	GRP Tables II.1-1 Through II.6-[illegible]				VIII.I.SP-9	II.4-1, 55	Piping elements	Glass	Air – indoor, uncontrolled (External)	None	None	No	BWR/PWR		VIII.I-5(SP-9)								
Yes	No	No	VIII	I	SP-93	GRP Tables II.1-1 Through II.6-[illegible]			M	VIII.I.SP-93	II.4-1, 52	Piping, piping components, and piping elements	Aluminum	Air – indoor uncontrolled (Internal/outside/mail)	None	None	No	BWR/PWR	New Record								
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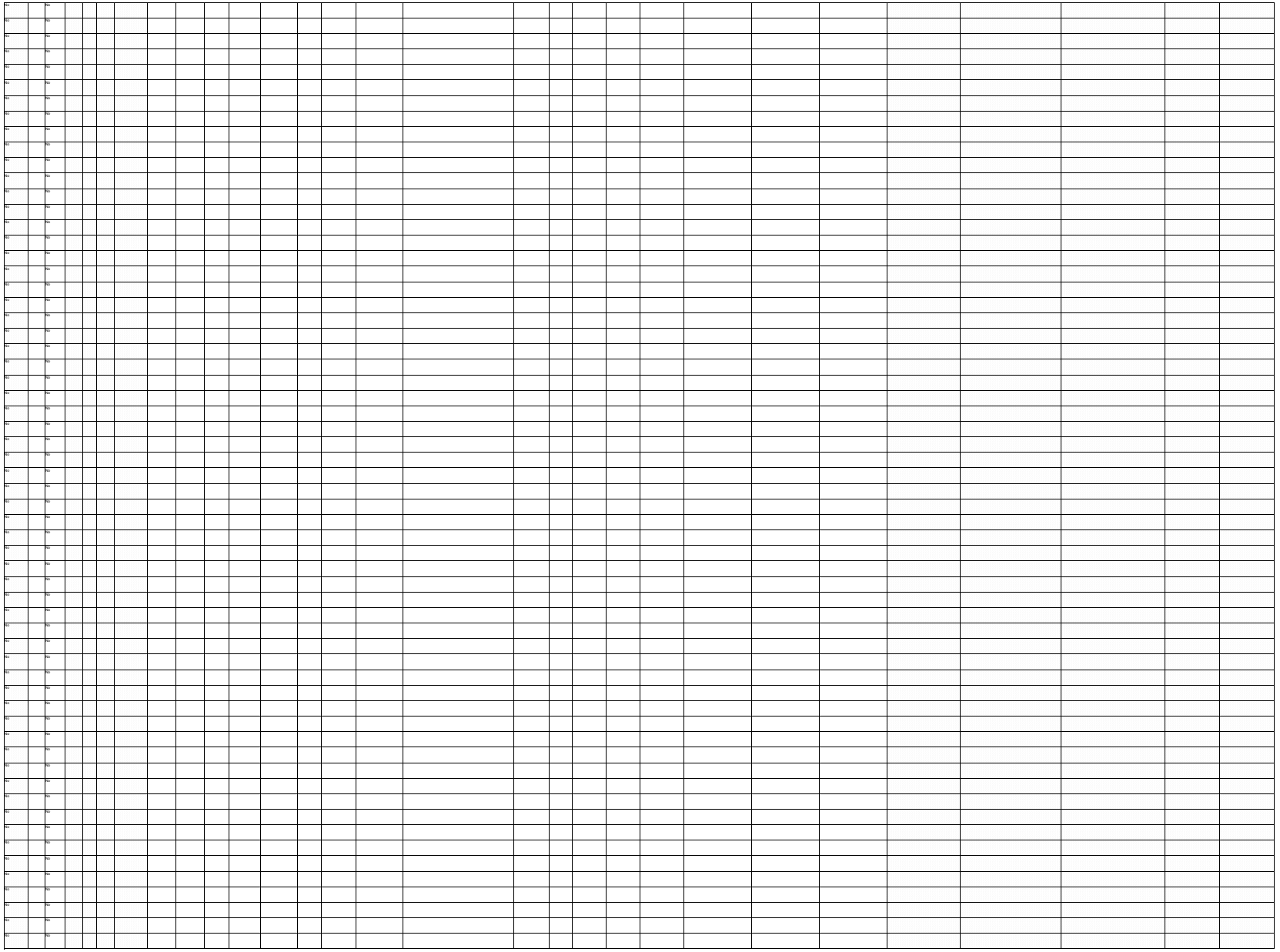

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Changes Proposed?	New Item?	Deleted Item?	Table	Identifier	ISG	New (N), Modified (M), Deleted (D)	Type	Component	Aging Effect/Mechanism	Aging Management Program (AMP)/TLAA	Further Evaluation Recommended	GALL-BLR Item	Revision 2 Identifier	Revision 2 Item	Revision 1 Item	Technical Basis for Change	Identifier from Technical Issues Database	Proposed Change	Basis for Change	Point of Contact	Fully Dispositioned?	Comments
Yes	No	No	3.1.1	3.1.1, 1		M		[redacted]	Cumulative fatigue damage [redacted] due to fatigue; [redacted]	[redacted]	[redacted]	V.A1-RP-227 V.A2-RP-54		V.A1-RP-227 V.A2-RP-54	N/A V.A2-A[R-73]	The staff amended AMR line item V.A1-RP-227 to clarify the "Component" column	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 10		M	10	P10R	Steel (with or without nickel-alloy or stainless steel cladding); stainless steel; nickel-alloy reactor coolant pressure [redacted]	Cumulative fatigue damage [redacted] due to fatigue; [redacted]	[redacted]	V.A2-R-219	10	V.A2-R-219	V.A2-2 [R-219]	The staff deleted flange components from AMR item V.A2-R-219 to be consistent with items in item 1.1a	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 100		M	100	B09R	Stainless steel reactor vessel internals (excludes RV spray ranger surface) exposed to reactor coolant	Loss of material due to wear	AMP XI.M6, "BWR Vessel Internals"	V.B1-RP-177	100	V.B1-RP-177	N/A							
Yes	No	No	3.1.1	3.1.1, 101		M	101	B09R	Stainless steel reactor vessel internals (excludes RV spray ranger surface) exposed to reactor coolant	Cracking due to flow- induced vibration, [redacted]	AMP XI.M6, "BWR Vessel Internals" and [redacted]	V.B1-RP-159	101	V.B1-RP-159	V.B1-1[R-RP-15]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 102			102	B09R	Stainless steel fuel supports and control rod core assemblies control rod drive housing exposed to reactor coolant	Cracking due to stress corrosion cracking, intergranular stress corrosion cracking	AMP XI.M6, "BWR Vessel Internals" and AMP XI.M2, "Water Chemistry"	No		V.B1-R-104	V.B1-R[R-104]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001					
Yes	No	No	3.1.1	3.1.1, 103		M	103	B09R	Stainless steel and nickel-alloy reactor internal components exposed to reactor coolant and neutron flux	Cracking due to stress corrosion cracking, intergranular stress corrosion cracking, irradiation-assisted stress corrosion	AMP XI.M6, "BWR Vessel Internals" and AMP XI.M2, "Water Chemistry"	[redacted]	103	V.B1-R-103 V.B1-R-105 V.B1-R-RP-92	N/A V.B1-1[R-103] V.B1-1[R-105]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 104		M	104	B09R	[redacted] who reactor vessel internal components exposed to reactor coolant and neutron flux	Cracking due to intergranular stress corrosion cracking	AMP XI.M6, "BWR Vessel Internals" and AMP XI.M2, "Water Chemistry"	No		V.B1-RP-381	N/A		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 105		M	105	B09R/P09R	Steel piping, piping components [redacted] exposed to concrete	None	[redacted]	V.E-RP-303	105	V.E-RP-303	V.E-4[RP-31]		<<Disposition: 83.M31 Expert Panel>>	<<Disposition: 83.M31 Expert Panel>>	<<Disposition: 83.M31 Expert Panel>>	<<Disposition: 83.M31 Expert Panel>> <<Identifier: 0006 0000001>>	83.M31 Expert Panel
No	No	No	3.1.1	3.1.1, 106		M	106	B09R/P09R	Nickel alloy piping, piping components and piping elements exposed to air - indoor, uncontrolled, or air with borated water	None		V.E-RP-03 V.E-RP-378	106	V.E-RP-03 V.E-RP-378	V.E-1[RP-32] N/A		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> <<Identifier: 0006 0000001>>	
No	No	No	3.1.1	3.1.1, 107		M	107	B09R/P09R	Stainless steel piping, piping components, and piping elements exposed to air - indoor, uncontrolled, or air with borated water leakage	None	None	V.E-RP-04 V.E-RP-379	107	V.E-RP-04 V.E-RP-379	V.E-2[RP-06] V.E-2[RP-08]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 11		M	11	B09R	Steel or stainless steel pump and valve closure bolting exposed to high temperatures and thermal cycles	Cumulative fatigue damage [redacted] due to fatigue; [redacted]	[redacted]	V.C1-RP-04	11	V.C1-RP-04	V.C1-1[A-29]	The staff amended the aging effect and AMP column entries for AMR line item #11 in Table 3.1-1 to be	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 110	LR-SEI-2012-01	M	110	B09R	Alloy-reinforced piping, piping components, and piping elements exposed to reactor coolant	Wall thinning due to erosion	AMP XI.M17, "Flow-Accelerated Corrosion"	No		V.C1-R-009	N/A		<<Disposition: Wall thinning due to erosion>> 00080000001	<<Disposition: Wall thinning due to erosion>>	<<Disposition: Wall thinning due to erosion>>	<<Disposition: Wall thinning due to erosion>>	<<Identifier: 0006 0000001>>	
Yes	Yes	No	3.1.1	3.1.1, 111		N	111	P09R	Steel (with or without nickel-alloy or stainless steel cladding) exposed to reactor coolant	Reduction of heat transfer due to fouling	[redacted]	V.C1-R-002 [redacted]		V.C1-R-002 [redacted]	N/A	Errors in the new AMR items in [redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	Yes	No	3.1.1	3.1.1, 112		N	112	P09R	Steel (with nickel-alloy cladding) exposed to reactor coolant	Loss of material due to general, pitting, and crevice corrosion	[redacted]	V.C1-R-RP-[redacted]		V.C1-R-RP-[redacted]	V.C1-R-[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> <<Identifier: 0006 0000001>>	
No	No	No	3.1.1	3.1.1, 113		N	113	P09R/P09R	Steel (with or without nickel-alloy or stainless steel cladding) exposed to reactor coolant	Loss of material due to general, pitting, crevice corrosion, and microbiologically influenced corrosion	[redacted]	V.C1-R-RP-[redacted]		V.C1-R-RP-[redacted]	V.C1-R-RP-[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 114		N	114	P09R	Steel (with or without nickel-alloy or stainless steel cladding) exposed to reactor coolant	Loss of material due to general, pitting, crevice, and galvanic corrosion	[redacted]	V.C1-R-RP-[redacted]		V.C1-R-RP-[redacted]	V.C1-R-RP-[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 115		N	115	P09R	Steel (with or without nickel-alloy or stainless steel cladding) exposed to reactor coolant	Loss of material due to general, pitting, crevice, and galvanic corrosion	[redacted]	V.C1-R-RP-[redacted]		V.C1-R-RP-[redacted]	V.C1-R-RP-[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 116		N	116	P09R	Steel (with nickel-alloy or stainless steel cladding) exposed to reactor coolant	Loss of material due to pitting and crevice corrosion	[redacted]	V.C1-R-RP-[redacted]		V.C1-R-RP-[redacted]	V.C1-R-RP-[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 117		N	117	P09R	Steel (with or without nickel-alloy or stainless steel cladding) exposed to reactor coolant	Loss of material due to pitting, crevice, and galvanic corrosion	[redacted]	V.C1-R-RP-[redacted]		V.C1-R-RP-[redacted]	V.C1-R-RP-[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 118		N	118	P09R	Steel (with or without nickel-alloy or stainless steel cladding) exposed to reactor coolant	Loss of material due to pitting, crevice, and galvanic corrosion	[redacted]	V.C1-R-RP-[redacted]		V.C1-R-RP-[redacted]	V.C1-R-RP-[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 119		N	119	P09R	Steel (with or without nickel-alloy or stainless steel cladding) exposed to reactor coolant	Loss of material due to pitting, crevice, and galvanic corrosion	[redacted]	V.C1-R-RP-[redacted]		V.C1-R-RP-[redacted]	V.C1-R-RP-[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 12		M	12	P10R	Steel (steel generator components; upper and lower heads/shells, inlet, outlet, transition cone closure and exposed to secondary feedwater	Loss of material due to general, pitting, crevice corrosion	AMP XI.M1, "ASME Section XI Inservice Inspection, Subsections IWB, IWC, and IWD" and AMP XI.M2, "Water Chemistry"	V.D1-RP-388	12	V.D1-RP-388	V.D1-1[A-56]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 120		M	120	B09R	Stainless steel reactor vessel internals (excludes RV spray ranger surface) exposed to reactor coolant	Loss of material due to wear	AMP XI.M6, "BWR Vessel Internals" and [redacted]	[redacted]		[redacted]	[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 121		M	121	B09R	Stainless steel reactor vessel internals (excludes RV spray ranger surface) exposed to reactor coolant	Loss of material due to wear	AMP XI.M6, "BWR Vessel Internals" and [redacted]	[redacted]		[redacted]	[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 122		M	122	B09R	Stainless steel reactor vessel internals (excludes RV spray ranger surface) exposed to reactor coolant	Loss of material due to wear	AMP XI.M6, "BWR Vessel Internals" and [redacted]	[redacted]		[redacted]	[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 123		M	123	B09R	Stainless steel reactor vessel internals (excludes RV spray ranger surface) exposed to reactor coolant	Loss of material due to wear	AMP XI.M6, "BWR Vessel Internals" and [redacted]	[redacted]		[redacted]	[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 124		M	124	B09R	Stainless steel reactor vessel internals (excludes RV spray ranger surface) exposed to reactor coolant	Loss of material due to wear	AMP XI.M6, "BWR Vessel Internals" and [redacted]	[redacted]		[redacted]	[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 125		M	125	B09R	Stainless steel reactor vessel internals (excludes RV spray ranger surface) exposed to reactor coolant	Loss of material due to wear	AMP XI.M6, "BWR Vessel Internals" and [redacted]	[redacted]		[redacted]	[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 126		M	126	B09R	Stainless steel reactor vessel internals (excludes RV spray ranger surface) exposed to reactor coolant	Loss of material due to wear	AMP XI.M6, "BWR Vessel Internals" and [redacted]	[redacted]		[redacted]	[redacted]	[redacted]	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 13		M	13	B09R/P09R	Steel (with or without stainless steel cladding); stainless steel; nickel-alloy weld [redacted]	Loss of fracture toughness due to neutron irradiation embrittlement	[redacted]	V.C1-R-02 V.C1-R-07 V.C1-R-81	13	V.C1-R-02 V.C1-R-07 V.C1-R-81	V.C1-1[A-10] V.C1-1[A-11] V.C1-1[A-12]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
Yes	No	No	3.1.1	3.1.1, 14		M	14	B09R/P09R	Steel (with or without nickel-alloy or stainless steel cladding) reactor vessel beltline shell, [redacted] exposed to reactor coolant and neutron flux	Loss of fracture toughness due to neutron irradiation embrittlement	AMP XI.M31, "Reactor Vessel [redacted]	[redacted]	14	V.C1-RP-225 V.C1-RP-226 [redacted]	V.C1-1[A-09] V.C1-1[A-08] [redacted]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 15	LR-SEI-2012-01	M	15	P10R	Stainless steel [redacted] exposed to reactor coolant and neutron flux	Reduction of fracture toughness due to neutron irradiation	[redacted]	[redacted]	15	V.B1-RP-379	N/A		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> 00100000001	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	
No	No	No	3.1.1	3.1.1, 16		M	16	B09R	Stainless steel and nickel-alloy reactor vessel [redacted] exposed to reactor coolant and neutron flux	Cracking due to stress corrosion cracking, intergranular stress corrosion cracking	[redacted]	[redacted]	16	V.B1-R-01	V.B1-1[A-01]		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> 00100000001	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	
No	No	No	3.1.1	3.1.1, 17		M	17	B09R	Stainless steel isolation condenser components exposed to reactor coolant	Cracking due to stress corrosion cracking, intergranular stress corrosion cracking	AMP XI.M1, "ASME Section XI Inservice Inspection, Subsections IWB, IWC, and [redacted]	[redacted]	17	V.C1-R-16	V.C1-1[A-15]		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> 00100000001	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	
Yes	No	No	3.1.1	3.1.1, 18		M	18	P09R	Reactor vessel shell fabricated of SA508-2 forgings clad with stainless steel using a high-heat-input welding process exposed to	Crack growth due to cyclic loading	[redacted]	[redacted]	18	V.A2-R-05	V.A2-2[A-05]		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> 00100000001	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	
No	No	No	3.1.1	3.1.1, 19		M	19	P10R	Stainless steel reactor vessel closure head flange leak detection line and bottom-mounted instrument guide tubes (external to	Cracking due to stress corrosion cracking	[redacted]	[redacted]	19	V.A2-R-15 V.A2-RP-154	V.A2-3[R-15] V.A2-1[RP-13]		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> 00100000001	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	
No	Yes	No	3.1.1	3.1.1, 2		M	2	P10R	Nickel alloy tubes and sleeves exposed to reactor coolant, secondary feedwater/steam	Cumulative fatigue damage [redacted] due to fatigue; [redacted]	[redacted]	V.D1-R-08 [redacted]	2	V.D1-R-08 [redacted]	V.D1-2[A-08] V.D2-1[A-08]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 20		M	20	P10R	Cast austenitic stainless steel Class 1 piping, piping components [redacted] exposed to reactor coolant	Cracking due to stress corrosion cracking	AMP XI.M1, "ASME Section XI Inservice Inspection, Subsections IWB, IWC, and [redacted]	[redacted]	20	V.C2-R-05	V.C2-1[A-03]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 21		M	21	B09R	Steel and stainless steel isolation condenser components exposed to reactor coolant	Cracking due to cyclic loading	AMP XI.M1, "ASME Section XI Inservice Inspection, Subsections IWB, IWC, and [redacted]	[redacted]	21	V.C1-R-229	V.C1-1[A-229]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 22		M	22	P10R	Steel steam generator feedwater impingement plate and support exposed to secondary feedwater	Loss of material due to erosion	[redacted]	[redacted]	22	V.D1-R-39	V.D1-1[A-39]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 23		M	23	P10R	Steel (with nickel-alloy cladding) or nickel alloy steam generator primary side components, divider plate and tube/tube	Cracking due to primary water stress corrosion cracking	AMP XI.M4, "ASME Section XI Inservice Inspection, Subsections IWB, IWC, and [redacted]	[redacted]	23	V.D1-RP-387 V.D1-RP-389 V.D1-RP-390	V.D1-4[RP-21] N/A V.D1-3[A-09]		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> 00100000001	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	
No	Yes	No	3.1.1	3.1.1, 24	LR-SEI-2012-01	D	24	P10R	[redacted]	[redacted]	[redacted]	[redacted]	24	V.B2-RP-388 V.B2-RP-391	N/A		<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>> 00100000001	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	<<Disposition: Aging Management Criteria for PWR Reactor Vessel Internal Components>>	
No	No	No	3.1.1	3.1.1, 25		M	25	B09R	Nickel alloy core shroud and core plate access hole cover (welded covers) exposed to reactor coolant	Cracking due to stress corrosion cracking, irradiation-assisted stress corrosion cracking	AMP XI.M1, "ASME Section XI Inservice Inspection, Subsections IWB, IWC, and [redacted]	[redacted]	25	V.B1-R-86	V.B1-2[A-86]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 26		M	26	P10R	Steel with stainless steel or nickel-alloy cladding, stainless steel primary side components, steam generator upper and lower shell-to-transition cone [redacted]	Cracking due to stress corrosion cracking, primary water stress corrosion cracking	AMP XI.M1, "ASME Section XI Inservice Inspection, Subsections IWB, IWC, and [redacted]	[redacted]	26	V.D2-R-20 V.D2-RP-05	V.D2-3[R-20] V.D2-3[R-05]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 27		M	27	P10R	Steel with stainless steel or nickel-alloy cladding, stainless steel primary side components exposed to reactor coolant	Cracking due to stress corrosion cracking, primary water stress corrosion cracking	AMP XI.M1, "ASME Section XI Inservice Inspection, Subsections IWB, IWC, and [redacted]	[redacted]	27	V.D2-RP-16	V.D2-1[A-17]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 28		M	28	P10R	Steel with stainless steel or nickel-alloy cladding, stainless steel primary side components exposed to reactor coolant	Cracking due to stress corrosion cracking, primary water stress corrosion cracking	AMP XI.M1, "ASME Section XI Inservice Inspection, Subsections IWB, IWC, and [redacted]	[redacted]	28	V.D2-R-21 V.D2-RP-06	V.D2-3[R-21] N/A		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	
No	No	No	3.1.1	3.1.1, 29		M	29	P10R	Steel with stainless steel or nickel-alloy cladding, stainless steel primary side components exposed to reactor coolant	Cracking due to stress corrosion cracking, primary water stress corrosion cracking	AMP XI.M1, "ASME Section XI Inservice Inspection, Subsections IWB, IWC, and [redacted]	[redacted]	29	V.D2-R-84	V.D2-3[R-84]		<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>> 00080000001	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	<<Disposition: GALL IV and SRP Table 3.1-1 Expert Panel>>	

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Basis Document: MARKUP/GALL MARKUP.docx

Changes Proposed?	New Item?	Location	Identifier	Chapter	AMP	Program Element	Name	Comments
No	No	Section X.E1	X.E1	X	X.E1		Environmental Qualification (EQ) of Electric Components	
Yes	Yes	Section X.E1.Operati	X.E1.Operating Experience	X	X.E1	Operating Experience		
No	No	Section X.M1	X.M1	X	X.M1		Fatigue Monitoring	
Yes	Yes	Section X.M1.Operati	X.M1.Operating Experience	X	X.M1	Operating Experience		
No	No	Section X.S1	X.S1	X	X.S1		Concrete Containment Tendon Prestress	
Yes	Yes	Section X.S1.Operati	X.S1.Operating Experience	X	X.S1	Operating Experience		
No	No	Section XI.E1	XI.E1	XI	XI.E1		Insulation Material for Electrical Cables and Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	
Yes	Yes	Section XI.E1.Detecti	XI.E1.Detection of Aging Effects	XI	XI.E1	Detection of Aging Effects		
Yes	Yes	Section XI.E1.Monitor	XI.E1.Monitoring and Trending	XI	XI.E1	Monitoring and Trending		
Yes	Yes	Section XI.E1.Operati	XI.E1.Operating Experience	XI	XI.E1	Operating Experience		
Yes	Yes	Section XI.E1.Param	XI.E1.Parameters Monitored/Inspected	XI	XI.E1	Parameters Monitored/Inspected		
Yes	Yes	Section XI.E1.Scope	XI.E1.Scope of Program	XI	XI.E1	Scope of Program		
No	No	Section XI.E2	XI.E2	XI	XI.E2		Insulation Material for Electrical Cables and Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements Used in Instrumentation Circuits	
Yes	Yes	Section XI.E2.Detecti	XI.E2.Detection of Aging Effects	XI	XI.E2	Detection of Aging Effects		
Yes	Yes	Section XI.E2.Monitor	XI.E2.Monitoring and Trending	XI	XI.E2	Monitoring and Trending		
Yes	Yes	Section XI.E2.Operati	XI.E2.Operating Experience	XI	XI.E2	Operating Experience		
Yes	Yes	Section XI.E2.Param	XI.E2.Parameters Monitored/Inspected	XI	XI.E2	Parameters Monitored/Inspected		
Yes	Yes	Section XI.E2.Scope	XI.E2.Scope of Program	XI	XI.E2	Scope of Program		
No	No	Section XI.E3	XI.E3	XI	XI.E3		Inaccessible Power Cables Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	
Yes	Yes	Section XI.E3.Detecti	XI.E3.Detection of Aging Effects	XI	XI.E3	Detection of Aging Effects		
Yes	Yes	Section XI.E3.Monitor	XI.E3.Monitoring and Trending	XI	XI.E3	Monitoring and Trending		
Yes	Yes	Section XI.E3.Operati	XI.E3.Operating Experience	XI	XI.E3	Operating Experience		
Yes	Yes	Section XI.E3.Param	XI.E3.Parameters Monitored/Inspected	XI	XI.E3	Parameters Monitored/Inspected		
Yes	Yes	Section XI.E3.Scope	XI.E3.Scope of Program	XI	XI.E3	Scope of Program		
No	No	Section XI.E4	XI.E4	XI	XI.E4		Metal-Enclosed Bus	
Yes	Yes	Section XI.E4.Operati	XI.E4.Operating Experience	XI	XI.E4	Operating Experience		
No	No	Section XI.E5	XI.E5	XI	XI.E5		Fuse Holders	
Yes	Yes	Section XI.E5.Operati	XI.E5.Operating Experience	XI	XI.E5	Operating Experience		
No	No	Section XI.E6	XI.E6	XI	XI.E6		Electrical Cable Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	
Yes	Yes	Section XI.E6.Detecti	XI.E6.Detection of Aging Effects	XI	XI.E6	Detection of Aging Effects		
Yes	Yes	Section XI.E6.Monitor	XI.E6.Monitoring and Trending	XI	XI.E6	Monitoring and Trending		
Yes	Yes	Section XI.E6.Operati	XI.E6.Operating Experience	XI	XI.E6	Operating Experience		
Yes	Yes	Section XI.E6.Param	XI.E6.Parameters Monitored/Inspected	XI	XI.E6	Parameters Monitored/Inspected		
Yes	Yes	Section XI.E6.Scope	XI.E6.Scope of Program	XI	XI.E6	Scope of Program		
No	No	Section XI.M1	XI.M1	XI	XI.M1		ASME Section XI Inservice Inspection, Subsections IWB, IWC, and IWD	
Yes	Yes	Section XI.M1.Operati	XI.M1.Operating Experience	XI	XI.M1	Operating Experience		
No	No	Section XI.M10	XI.M10	XI	XI.M10		Boric Acid Corrosion	
Yes	Yes	Section XI.M10.Oper	XI.M10.Operating Experience	XI	XI.M10	Operating Experience		
Yes	Yes	Section XI.M10.Refer	XI.M10.References	XI	XI.M10	References		
No	No	Section XI.M11B	XI.M11B	XI	XI.M11B		Cracking of Nickel-Alloy Components and Loss of Material Due to Boric Acid-Induced Corrosion in Reactor Coolant Pressure Boundary Components (PWRs	
Yes	Yes	Section XI.M11B.Ope	XI.M11B.Operating	XI	XI.M11B	Operating Experience		
No	No	Section XI.M12	XI.M12	XI	XI.M12		Thermal Aging Embrittlement of Cast Austenitic Stainless Steel (CASS)	
Yes	Yes	Section XI.M12.Oper	XI.M12.Operating Experience	XI	XI.M12	Operating Experience		
No	No	Section XI.M16A	XI.M16A	XI	XI.M16A		Reactor Vessel Internals	
Yes	Yes	Section XI.M16A.Acc	XI.M16A.Acceptance Criteria	XI	XI.M16A	Acceptance Criteria		
Yes	Yes	Section XI.M16A.Ad	XI.M16A.Administrative	XI	XI.M16A	Administrative Controls		
Yes	Yes	Section XI.M16A.Con	XI.M16A.Confirmation	XI	XI.M16A	Confirmation Process		
Yes	Yes	Section XI.M16A.Corr	XI.M16A.Corrective Actions	XI	XI.M16A	Corrective Actions		
Yes	Yes	Section XI.M16A.Det	XI.M16A.Detection of Aging	XI	XI.M16A	Detection of Aging Effects		
Yes	Yes	Section XI.M16A.Mon	XI.M16A.Monitoring and	XI	XI.M16A	Monitoring and Trending		
Yes	Yes	Section XI.M16A.Ope	XI.M16A.Operating	XI	XI.M16A	Operating Experience		
Yes	Yes	Section XI.M16A.Par	XI.M16A.Parameters	XI	XI.M16A	Parameters Monitored/Inspected		
Yes	Yes	Section XI.M16A.Pre	XI.M16A.Preventive Actions	XI	XI.M16A	Preventive Actions		
Yes	Yes	Section XI.M16A.Pro	XI.M16A.Program Description	XI	XI.M16A	Program Description		
Yes	Yes	Section XI.M16A.Ref	XI.M16A.References	XI	XI.M16A	References		
Yes	Yes	Section XI.M16A.Sco	XI.M16A.Scope of Program	XI	XI.M16A	Scope of Program		
No	No	Section XI.M17	XI.M17	XI	XI.M17		Flow-Accelerated Corrosion	
Yes	Yes	Section XI.M17.Acce	XI.M17.Acceptance Criteria	XI	XI.M17	Acceptance Criteria		
Yes	Yes	Section XI.M17.Adm	XI.M17.Administrative	XI	XI.M17	Administrative Controls		
Yes	Yes	Section XI.M17.Confi	XI.M17.Confirmation	XI	XI.M17	Confirmation Process		
Yes	Yes	Section XI.M17.Corre	XI.M17.Corrective Actions	XI	XI.M17	Corrective Actions		
Yes	Yes	Section XI.M17.Detec	XI.M17.Detection of Aging	XI	XI.M17	Detection of Aging Effects		
Yes	Yes	Section XI.M17.Monit	XI.M17.Monitoring and	XI	XI.M17	Monitoring and Trending		
Yes	Yes	Section XI.M17.Oper	XI.M17.Operating Experience	XI	XI.M17	Operating Experience		
Yes	Yes	Section XI.M17.Para	XI.M17.Parameters	XI	XI.M17	Parameters Monitored/Inspected		
Yes	Yes	Section XI.M17.Preve	XI.M17.Preventive Actions	XI	XI.M17	Preventive Actions		
Yes	Yes	Section XI.M17.Progr	XI.M17.Program Description	XI	XI.M17	Program Description		
Yes	Yes	Section XI.M17.Refer	XI.M17.References	XI	XI.M17	References		
Yes	Yes	Section XI.M17.Scop	XI.M17.Scope of Program	XI	XI.M17	Scope of Program		
No	No	Section XI.M18	XI.M18	XI	XI.M18		Bolting Integrity	
Yes	Yes	Section XI.M18.Detec	XI.M18.Detection of Aging	XI	XI.M18	Detection of Aging Effects		
Yes	Yes	Section XI.M18.Monit	XI.M18.Monitoring and	XI	XI.M18	Monitoring and Trending		
Yes	Yes	Section XI.M18.Oper	XI.M18.Operating Experience	XI	XI.M18	Operating Experience		
Yes	Yes	Section XI.M18.Para	XI.M18.Parameters	XI	XI.M18	Parameters Monitored/Inspected		
Yes	Yes	Section XI.M18.Scop	XI.M18.Scope of Program	XI	XI.M18	Scope of Program		
No	No	Section XI.M19	XI.M19	XI	XI.M19		Steam Generators	
Yes	Yes	Section XI.M19.Oper	XI.M19.Operating Experience	XI	XI.M19	Operating Experience		

Yes	Yes	Section XI.M19.Para	XI.M19.Parameters	XI	XI.M19	Parameters Monitored/Inspected		
Yes	Yes	Section XI.M19.Refer	XI.M19.References	XI	XI.M19	References		
No	No	Section XI.M2	XI.M2	XI	XI.M2		Water Chemistry	
Yes	Yes	Section XI.M2.Operat	XI.M2.Operating Experience	XI	XI.M2	Operating Experience		
No	No	Section XI.M20	XI.M20	XI	XI.M20		Open-Cycle Cooling Water System	
Yes	Yes	Section XI.M20.Oper	XI.M20.Operating Experience	XI	XI.M20	Operating Experience		
Yes	Yes	Section XI.M20.Scop	XI.M20.Scope of Program	XI	XI.M20	Scope of Program		
No	No	Section XI.M21A	XI.M21A	XI	XI.M21A		Closed Treated Water Systems	
Yes	Yes	Section XI.M21A.Del	XI.M21A.Detection of Aging	XI	XI.M21A	Detection of Aging Effects		
Yes	Yes	Section XI.M21A.Ope	XI.M21A.Operating	XI	XI.M21A	Operating Experience		
Yes	Yes	Section XI.M21A.Sco	XI.M21A.Scope of Program	XI	XI.M21A	Scope of Program		
No	No	Section XI.M22	XI.M22	XI	XI.M22		Boraflex Monitoring	
Yes	Yes	Section XI.M22.Oper	XI.M22.Operating Experience	XI	XI.M22	Operating Experience		
No	No	Section XI.M23	XI.M23	XI	XI.M23		Inspection of Overhead Heavy Load and Light Load (Related to Refueling) Handling Systems	
Yes	Yes	Section XI.M23.Oper	XI.M23.Operating Experience	XI	XI.M23	Operating Experience		
No	No	Section XI.M24	XI.M24	XI	XI.M24		Compressed Air Monitoring	
Yes	Yes	Section XI.M24.Oper	XI.M24.Operating Experience	XI	XI.M24	Operating Experience		
Yes	Yes	Section XI.M24.Scop	XI.M24.Scope of Program	XI	XI.M24	Scope of Program		
No	No	Section XI.M25	XI.M25	XI	XI.M25		BWR Reactor Water Cleanup System	
Yes	Yes	Section XI.M25.Oper	XI.M25.Operating Experience	XI	XI.M25	Operating Experience		
No	No	Section XI.M26	XI.M26	XI	XI.M26		Fire Protection	
Yes	Yes	Section XI.M26.Monit	XI.M26.Monitoring and	XI	XI.M26	Monitoring and Trending		
Yes	Yes	Section XI.M26.Oper	XI.M26.Operating Experience	XI	XI.M26	Operating Experience		
No	No	Section XI.M27	XI.M27	XI	XI.M27		Fire Water System	
Yes	Yes	Section XI.M27.Acce	XI.M27.Acceptance Criteria	XI	XI.M27	Acceptance Criteria		
Yes	Yes	Section XI.M27.Detec	XI.M27.Detection of Aging	XI	XI.M27	Detection of Aging Effects		
Yes	Yes	Section XI.M27.Monit	XI.M27.Monitoring and	XI	XI.M27	Monitoring and Trending		
Yes	Yes	Section XI.M27.Oper	XI.M27.Operating Experience	XI	XI.M27	Operating Experience		
Yes	Yes	Section XI.M27.Para	XI.M27.Parameters	XI	XI.M27	Parameters Monitored/Inspected		
Yes	Yes	Section XI.M27.Preve	XI.M27.Preventive Actions	XI	XI.M27	Preventive Actions		
Yes	Yes	Section XI.M27.Progr	XI.M27.Program Description	XI	XI.M27	Program Description		
Yes	Yes	Section XI.M27.Refer	XI.M27.References	XI	XI.M27	References		
Yes	Yes	Section XI.M27.Scop	XI.M27.Scope of Program	XI	XI.M27	Scope of Program		
No	No	Section XI.M29	XI.M29	XI	XI.M29		Aboveground Metallic Tanks	
Yes	Yes	Section XI.M29.Acce	XI.M29.Acceptance Criteria	XI	XI.M29	Acceptance Criteria		
Yes	Yes	Section XI.M29.Detec	XI.M29.Detection of Aging	XI	XI.M29	Detection of Aging Effects		
Yes	Yes	Section XI.M29.Monit	XI.M29.Monitoring and	XI	XI.M29	Monitoring and Trending		
Yes	Yes	Section XI.M29.Oper	XI.M29.Operating Experience	XI	XI.M29	Operating Experience		
Yes	Yes	Section XI.M29.Para	XI.M29.Parameters	XI	XI.M29	Parameters Monitored/Inspected		
Yes	Yes	Section XI.M29.Preve	XI.M29.Preventive Actions	XI	XI.M29	Preventive Actions		
Yes	Yes	Section XI.M29.Progr	XI.M29.Program Description	XI	XI.M29	Program Description		
Yes	Yes	Section XI.M29.Refer	XI.M29.References	XI	XI.M29	References		
Yes	Yes	Section XI.M29.Scop	XI.M29.Scope of Program	XI	XI.M29	Scope of Program		
No	No	Section XI.M3	XI.M3	XI	XI.M3		Reactor Head Closure Stud Bolting	
Yes	Yes	Section XI.M3.Operat	XI.M3.Operating Experience	XI	XI.M3	Operating Experience		
No	No	Section XI.M30	XI.M30	XI	XI.M30		Fuel Oil Chemistry	
Yes	Yes	Section XI.M30.Oper	XI.M30.Operating Experience	XI	XI.M30	Operating Experience		
Yes	Yes	Section XI.M30.Scop	XI.M30.Scope of Program	XI	XI.M30	Scope of Program		
No	No	Section XI.M31	XI.M31	XI	XI.M31		Reactor Vessel Surveillance	
Yes	Yes	Section XI.M31.Oper	XI.M31.Operating Experience	XI	XI.M31	Operating Experience		
No	No	Section XI.M32	XI.M32	XI	XI.M32		One-Time Inspection	
Yes	Yes	Section XI.M32.Oper	XI.M32.Operating Experience	XI	XI.M32	Operating Experience		
No	No	Section XI.M33	XI.M33	XI	XI.M33		Selective Leaching	
Yes	Yes	Section XI.M33.Detec	XI.M33.Detection of Aging	XI	XI.M33	Detection of Aging Effects		
Yes	Yes	Section XI.M33.Oper	XI.M33.Operating Experience	XI	XI.M33	Operating Experience		
No	No	Section XI.M35	XI.M35	XI	XI.M35		One-Time Inspection of ASME Code Class 1 Small Bore-Piping	
Yes	Yes	Section XI.M35.Oper	XI.M35.Operating Experience	XI	XI.M35	Operating Experience		
No	No	Section XI.M36	XI.M36	XI	XI.M36		External Surfaces Monitoring of Mechanical Components	
Yes	Yes	Section XI.M36.Acce	XI.M36.Acceptance Criteria	XI	XI.M36	Acceptance Criteria		
Yes	Yes	Section XI.M36.Detec	XI.M36.Detection of Aging	XI	XI.M36	Detection of Aging Effects		
Yes	Yes	Section XI.M36.Monit	XI.M36.Monitoring and	XI	XI.M36	Monitoring and Trending		
Yes	Yes	Section XI.M36.Oper	XI.M36.Operating Experience	XI	XI.M36	Operating Experience		
Yes	Yes	Section XI.M36.Para	XI.M36.Parameters	XI	XI.M36	Parameters Monitored/Inspected		
Yes	Yes	Section XI.M36.Preve	XI.M36.Preventive Actions	XI	XI.M36	Preventive Actions		
Yes	Yes	Section XI.M36.Progr	XI.M36.Program Description	XI	XI.M36	Program Description		
Yes	Yes	Section XI.M36.Scop	XI.M36.Scope of Program	XI	XI.M36	Scope of Program		
No	No	Section XI.M37	XI.M37	XI	XI.M37		Flux Thimble Tube Inspection	
Yes	Yes	Section XI.M37.Oper	XI.M37.Operating Experience	XI	XI.M37	Operating Experience		
No	No	Section XI.M38	XI.M38	XI	XI.M38		Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components	
Yes	Yes	Section XI.M38.Acce	XI.M38.Acceptance Criteria	XI	XI.M38	Acceptance Criteria		
Yes	Yes	Section XI.M38.Admi	XI.M38.Administrative	XI	XI.M38	Administrative Controls		
Yes	Yes	Section XI.M38.Confi	XI.M38.Confirmation	XI	XI.M38	Confirmation Process		
Yes	Yes	Section XI.M38.Detec	XI.M38.Detection of Aging	XI	XI.M38	Detection of Aging Effects		
Yes	Yes	Section XI.M38.Monit	XI.M38.Monitoring and	XI	XI.M38	Monitoring and Trending		
Yes	Yes	Section XI.M38.Oper	XI.M38.Operating Experience	XI	XI.M38	Operating Experience		
Yes	Yes	Section XI.M38.Para	XI.M38.Parameters	XI	XI.M38	Parameters Monitored/Inspected		
Yes	Yes	Section XI.M38.Progr	XI.M38.Program Description	XI	XI.M38	Program Description		
Yes	Yes	Section XI.M38.Scop	XI.M38.Scope of Program	XI	XI.M38	Scope of Program		

No	No	Section XI.M39	XI.M39	XI	XI.M39		Lubricating Oil Analysis	
Yes	Yes	Section XI.M39.Oper	XI.M39.Operating Experience	XI	XI.M39	Operating Experience		
No	No	Section XI.M4	XI.M4	XI	XI.M4		BWR Vessel ID Attachment Welds	
Yes	Yes	Section XI.M4.Operat	XI.M4.Operating Experience	XI	XI.M4	Operating Experience		
No	No	Section XI.M40	XI.M40	XI	XI.M40		Neutron-Absorbing Material Monitoring	
Yes	Yes	Section XI.M40.Oper	XI.M40.Operating Experience	XI	XI.M40	Operating Experience		
No	No	Section XI.M41	XI.M41	XI	XI.M41		Buried and Underground Piping and Tanks Inspection	
Yes	Yes	Section XI.M41.Acce	XI.M41.Acceptance Criteria	XI	XI.M41	Acceptance Criteria		
Yes	Yes	Section XI.M41.Admi	XI.M41.Administrative	XI	XI.M41	Administrative Controls		
Yes	Yes	Section XI.M41.Confi	XI.M41.Confirmation	XI	XI.M41	Confirmation Process		
Yes	Yes	Section XI.M41.Corre	XI.M41.Corrective Actions	XI	XI.M41	Corrective Actions		
Yes	Yes	Section XI.M41.Detec	XI.M41.Detection of Aging Effects	XI	XI.M41	Detection of Aging Effects		
Yes	Yes	Section XI.M41.Monit	XI.M41.Monitoring and	XI	XI.M41	Monitoring and Trending		
Yes	Yes	Section XI.M41.Oper	XI.M41.Operating Experience	XI	XI.M41	Operating Experience		
Yes	Yes	Section XI.M41.Para	XI.M41.Parameters	XI	XI.M41	Parameters Monitored/Inspected		
Yes	Yes	Section XI.M41.Preve	XI.M41.Preventive Actions	XI	XI.M41	Preventive Actions		
Yes	Yes	Section XI.M41.Progr	XI.M41.Program Description	XI	XI.M41	Program Description		
Yes	Yes	Section XI.M41.Refer	XI.M41.References	XI	XI.M41	References		
Yes	Yes	Section XI.M41.Scop	XI.M41.Scope of Program	XI	XI.M41	Scope of Program		
Yes	Yes	Section XI.M42	XI.M42	XI	XI.M42		Internal Coatings/Linings for In Scope Piping, Piping Components, Heat Exchangers, and Tanks	
Yes	Yes	Section XI.M42.Progr	XI.M42.Program Description	XI	XI.M42	Program Description		
No	No	Section XI.M5	XI.M5	XI	XI.M5		BWR Feedwater Nozzle	
Yes	Yes	Section XI.M5.Operat	XI.M5.Operating Experience	XI	XI.M5	Operating Experience		
No	No	Section XI.M6	XI.M6	XI	XI.M6		BWR Control Rod Drive Return Line Nozzle	
Yes	Yes	Section XI.M6.Operat	XI.M6.Operating Experience	XI	XI.M6	Operating Experience		
No	No	Section XI.M7	XI.M7	XI	XI.M7		BWR Stress Corrosion Cracking	
Yes	Yes	Section XI.M7.Operat	XI.M7.Operating Experience	XI	XI.M7	Operating Experience		
No	No	Section XI.M8	XI.M8	XI	XI.M8		BWR Penetrations	
Yes	Yes	Section XI.M8.Operat	XI.M8.Operating Experience	XI	XI.M8	Operating Experience		
No	No	Section XI.M9	XI.M9	XI	XI.M9		BWR Vessel Internals	
Yes	Yes	Section XI.M9.Operat	XI.M9.Operating Experience	XI	XI.M9	Operating Experience		
No	No	Section XI.S1	XI.S1	XI	XI.S1		ASME Section XI, Subsection IWE	
Yes	Yes	Section XI.S1.Operati	XI.S1.Operating Experience	XI	XI.S1	Operating Experience		
No	No	Section XI.S2	XI.S2	XI	XI.S2		ASME Section XI, Subsection IWL	
Yes	Yes	Section XI.S2.Operati	XI.S2.Operating Experience	XI	XI.S2	Operating Experience		
No	No	Section XI.S3	XI.S3	XI	XI.S3		ASME Section XI, Subsection IWF	
Yes	Yes	Section XI.S3.Operati	XI.S3.Operating Experience	XI	XI.S3	Operating Experience		
No	No	Section XI.S4	XI.S4	XI	XI.S4		10 CFR 50, Appendix J	
Yes	Yes	Section XI.S4.Operati	XI.S4.Operating Experience	XI	XI.S4	Operating Experience		
No	No	Section XI.S5	XI.S5	XI	XI.S5		Masonry Walls	
Yes	Yes	Section XI.S5.Operati	XI.S5.Operating Experience	XI	XI.S5	Operating Experience		
No	No	Section XI.S6	XI.S6	XI	XI.S6		Structures Monitoring	
Yes	Yes	Section XI.S6.Operati	XI.S6.Operating Experience	XI	XI.S6	Operating Experience		
Yes	Yes	Section XI.S6.Progra	XI.S6.Program Description	XI	XI.S6	Program Description		
No	No	Section XI.S7	XI.S7	XI	XI.S7		RG 1.127, Inspection of Water-Control Structures Associated with Nuclear Power Plants	
Yes	Yes	Section XI.S7.Operati	XI.S7.Operating Experience	XI	XI.S7	Operating Experience		
No	No	Section XI.S8	XI.S8	XI	XI.S8		Protective Coating Monitoring and Maintenance Program	
Yes	Yes	Section XI.S8.Operati	XI.S8.Operating Experience	XI	XI.S8	Operating Experience		
No								
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Basis Document: MARKUP/SRP-LR MARKUP.docx

Changes Proposed?	New Item?	Location	GALL Chapter	GALL Program	Description of Program	Implementation Schedule*	Applicable GALL Report and SRP-LR Chapter References	Comments
No	No		GALL Appendix A	Quality Assurance	The 10 CFR Part 50, Appendix B quality assurance program provides for corrective actions, the confirmation process, and administrative controls for AMPs for license renewal. The scope of this existing program is expanded to include nonsafety-related structures and components that are subject to an AMR for license renewal.	Existing program	GALL VII / SRP 3.3 GALL VIII / SRP 3.4 GALL III / SRP 3.5 GALL VI / SRP 3.6	
Yes	Yes	Table 3.0-1, GALL Appendix B	GALL Appendix B	Operating Experience	Operating experience from plant-specific and industry sources is captured and systematically reviewed on an ongoing basis in accordance with the quality assurance program, which meets the requirements of 10 CFR Part 50, Appendix B, and the operating experience program, which meets the requirements of NUREG-0737, "Clarification of TMI Action Plan Requirements," Item I.C.5, "Procedures for Feedback of Operating Experience to Plant Staff." The operating experience program interfaces with and relies on active participation in the Institute of Nuclear Power Operations' operating experience program, as endorsed by the NRC. In accordance with these programs, all incoming operating experience items are screened to determine whether they may involve age-related degradation or aging management impacts. Items so identified are further evaluated and the AMPs are either enhanced or new AMPs are developed, as appropriate, when it is determined through these evaluations that the effects of aging may not be adequately managed. Training on ag-erelated degradation and aging management is provided to those personnel responsible for implementing the AMPs and who may submit, screen, assign, evaluate, or otherwise process plant-specific and industry operating experience. Plant-specific operating experience associated with aging management and age-related degradation is reported to the industry in accordance with guidelines established in the operating experience program.	Existing Program	GALL II-III / SRP 3.5 GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VI / SRP 3.6 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		SRP Appendix A	Plant-Specific AMP	The program should contain information associated with the bases for determining that aging effects will be managed during the period of extended operation.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4 GALL II-III / SRP 3.5 GALL VI / SRP 3.6	
No	No		XI.E1	Insulation Material for Electrical Cables and Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	The program consists of accessible electrical cables and connections installed in adverse localized environments to be visually inspected at least once every 10 years for cable jacket and connection insulation surface anomalies, such as embrittlement, discoloration, cracking, melting, swelling, or surface contamination, that could indicate incipient conductor insulation aging degradation from temperature, radiation, or moisture.	First inspection for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	
No	No		XI.E2	Insulation Material for Electrical Cables and Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements Used in Instrumentation Circuits	The program calls for the review of calibration results or findings of surveillance tests on electrical cables and connections used in circuits with sensitive, high- voltage, low-level current signals, such as radiation monitoring and nuclear instrumentation, to provide an indication of the existence of aging effects based on acceptance criteria related to instrumentation circuit performance. By reviewing the results obtained during normal calibration or surveillance, an applicant may detect severe aging degradation prior to the loss of the cable and connection intended function. The review of calibration results or findings of surveillance tests is performed at least once every 10 years. In cases where cables are not included as part of calibration or surveillance program testing circuit, a proven cable test (such as insulation resistance tests, time domain reflectometry tests, or other testing judged to be effective in determining cable system insulation condition as justified in the application) is performed. The test frequency is based on engineering evaluation and is at least once every 10 years.	First review of calibration results or findings of surveillance test results or cable tests for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	
No	No		XI.E3	Inaccessible Power Cables Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	The program calls for inaccessible or underground (e.g. in conduit, duct bank, or direct buried) power (greater than or equal to 400 volts) cables exposed to significant moisture, to be tested at least once every 6 years to provide an indication of the condition of the conductor insulation. The specific type of test to be used should be capable of detecting reduced insulation resistance of the cable's insulation system due to wetting or submergence. The applicant can assess the condition of the cable insulation with reasonable confidence using one or more of the following techniques: Dielectric Loss (Dissipation Factor/Power Factor), AC Voltage Withstand, Partial Discharge, Step Voltage, Time Domain Reflectometry, Insulation Resistance and Polarization Index, Line Resonance Analysis, or other testing that is state-of-the-art at the time the tests are performed. One or more tests are used to determine the condition of the cables so they will continue to meet their intended function during the period of extended operation. The inspection frequency for water collection is established and performed based on plant-specific operating experience with cable wetting or submergence in manholes (i.e., the inspection is performed periodically based on water accumulation over time and event driven occurrences such as heavy rain or flooding). The periodic inspection should occur at least annually. The inspection should include direct observation that cables are not wetted or submerged, that cables/splices and cable support structures are intact, and dewatering/drainage systems (i.e., sump pumps) and associated alarms operate properly. In addition, operation of dewatering devices should be inspected and operation verified prior to any known or predicted heavy rain or flooding events.	First tests or first inspections for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	
No	No		XI.E4	Metal Enclosed Bus	The program calls for the visual inspection of metal enclosed bus (MEB) internal surfaces to detect age- related degradation, including cracks, corrosion, foreign debris, excessive dust buildup, and evidence of moisture intrusion. MEB insulating material is visually inspected for signs of embrittlement, cracking, chipping, melting, swelling, discoloration, or surface contamination, which may indicate overheating or aging degradation. The internal bus insulating supports are visually inspected for structural integrity and signs of cracks. MEB external surfaces are visually inspected for loss of material due to general, pitting, and crevice corrosion. Accessible elastomers (e.g., gaskets, boots, and sealants) are inspected for degradation, including surface cracking, crazing, scuffing, and changes in dimensions (e.g., "ballooning" and "necking"), shrinkage, discoloration, hardening and loss of strength. A sample of accessible bolted connections is inspected for increased resistance of connection by using thermography or by measuring connection resistance using a micro-ohmmeter. These inspections are performed at least once every 10 years. As an alternative to thermography or measuring connection resistance of accessible bolted connections covered with heat shrink tape, sleeving, insulating boots, etc., the applicant may use visual inspection of insulation material to detect surface anomalies, such as embrittlement, cracking, chipping, melting, discoloration, swelling, or surface contamination. When this alternative visual inspection is used to check bolted connections, the first inspection is completed prior to the period of extended operation and every 5 years thereafter.	First inspection for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	
No	No		XI.E5	Fuse Holders	The program consists of fuse holders within the scope of license renewal to be tested at least once every 10 years to provide an indication of the condition of the metallic clamp portion of the fuse holders. Testing may include thermography, contact resistance testing, or other appropriate testing methods.	First tests for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	
No	No		XI.E6	Electrical Cable Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	The program consists of a representative sample of electrical connections within the scope of license renewal, which is tested at least once prior to the period of extended operation to confirm that there are no aging effects requiring management during that period. Testing may include thermography, contact resistance testing, or other appropriate testing methods without removing the connection insulation, such as heat shrink tape, sleeving, insulating boots, etc. The one-time test provides additional confirmation to support industry operating experience that shows that electrical connections have not experienced a high degree of failures and that existing installation and maintenance practices are effective. As an alternative to thermography or measuring connection resistance of the cable connection sample, for the accessible cable connections that are covered with heat shrink tape, sleeving, insulating boots, etc., the applicant may use visual inspection of insulation materials to detect surface anomalies, such as embrittlement, cracking, chipping, melting, discoloration, swelling, or surface contamination. When this alternative visual inspection is used to check cable connections, the first inspection is completed prior to the period of extended operation and every 5 years thereafter.	First tests for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	

No	No		XI.M1	ASME Section XI Inservice Inspection, Subsections IWB, IWC, and IWD	The program consists of periodic volumetric, surface, and/or visual examination of American Society of Mechanical Engineers (ASME) Class 1, 2, and 3 pressure-retaining components, including welds, pump casings, valve bodies, integral attachments, and pressure-retaining bolting for assessment, signs of degradation, and corrective actions. This program is in accordance with the ASME Code Section XI edition and addenda approved in accordance with provisions of 10 CFR 50.55a during the period of extended operation.	Existing program	GALL IV / SRP 3.1 GALL VII / SRP 3.3	
No	No		XI.M10	Boric Acid Corrosion	The program consists of (a) visual inspection of external surfaces that are potentially exposed to borated water leakage, (b) timely discovery of leak path and removal of the boric acid residues, (c) assessment of the damage, and (d) follow-up inspection for adequacy. This program is implemented in response to NRC GL 88-05 and recent operating experience.	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VI / SRP 3.6 GALL VII / SRP 3.3 GALL VIII / SRP 3.4 GALL III / SRP 3.5	
No	No		XI.M11B	Cracking of Nickel-Alloy Components and Loss of Material due to Boric Acid-Induced Corrosion in Reactor Coolant Pressure Boundary Components (PWRS only)	This program addresses cracking of nickel-alloy components and loss of material due to boric acid- induced corrosion in susceptible, safety-related components in the vicinity of nickel-alloy reactor coolant pressure boundary components. It provides (a) inspection requirements for the PWR vessel, steam generator, pressurizer components, and piping if they contain the primary water stress corrosion cracking (PWSCC) susceptible materials designated alloys 600/82/182 and (b) inspection requirements for reactor pressure vessel upper heads.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1	
No	No		XI.M12	Thermal Aging Embrittlement of Cast Austenitic Stainless Steel (CASS)	The program consists of the determination of the susceptibility of CASS piping, piping components, and piping elements in PWR emergency core cooling system (ECCS) systems, including interfacing pipe lines to the chemical and volume control system and to the spent fuel pool; and in BWR ECCS systems, including interfacing pipe lines to the suppression chamber and to the drywell and suppression chamber spray system in regard to thermal aging embrittlement based on the casting method, molybdenum content, and ferrite percentage. For potentially susceptible piping, aging management is accomplished either through enhanced volumetric examination or component-specific flaw tolerance evaluation.	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2	
Yes	No	Table 3.0-1, XI.M16A	XI.M16A	PWR Vessel Internals	The program relies on implementation of the inspection and evaluation guidelines in EPRI Technical Report No. 1022863~~1016596~~ (MRP-227-A) and EPRI Technical Report No. 1016609 (MRP-228) to manage the aging effects on the reactor vessel internal components. This program is used to manage (a) ~~various forms of~~ cracking, including stress corrosion cracking, primary water stress corrosion cracking ~~SCC, PWSCC~~, irradiation- assisted stress corrosion cracking, and ~~(IASCC), or~~ cracking due to fatigue/cyclical loading; (b) loss of material induced by wear; (c) loss of fracture toughness due to either thermal aging ~~,~~ or neutron irradiation embrittlement, or void swelling; (d) dimensional changes ~~and potential loss of fracture toughness~~ due to void swelling or distortion ~~and irradiation growth~~; and (e) loss of preload due to thermal and irradiation-enhanced stress relaxation or creep.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1	
Yes	No	Table 3.0-1, XI.M17	XI.M17	Flow-Accelerated Corrosion (FAC)	The program consists of (a) conducting appropriate analysis and baseline inspections, (b) determining the extent of thinning and replacement/repair of components, and (c) performing follow-up inspections to confirm or quantify and take long-term corrective actions. The program relies on implementation of EPRI guidelines of NSAC-202L-R2 or R3. Where applicable, the program also manages wall thinning due to erosion mechanisms such as cavitation, flashing, droplet impingement, and solid particle impingement.	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
Yes	No	Table 3.0-1, XI.M18	XI.M18	Bolting Integrity	This program focuses on closure bolting for pressure-retaining components and relies on recommendations for a comprehensive bolting integrity program, as delineated in NUREG-1339, and industry recommendations, as delineated in EPRI NP-5769, with the exceptions noted in NUREG-1339 for safety-related bolting. The program also relies on industry recommendations for comprehensive bolting maintenance, as delineated in the EPRI TR-104213. The program generally includes periodic inspection of closure bolting for indications of loss of preload, cracking, and loss of material due to corrosion, rust, etc. The program also includes preventive measures to preclude or minimize loss of preload and cracking. A related aging management program (AMP) XI.M1, "ASME Section XI Inservice Inspection (ISI) Subsections IWB, IWC, and IWD," includes inspections of safety-related and non-safety-related closure bolting and supplements this bolting integrity program. Other related programs, AMPs XI.S1, "ASME Section XI, Subsection IWE"; XI.S3, "ASME Section XI Subsection IWF"; XI.S6, "Structures Monitoring"; XI.S7, "RG 1.127, "Inspection of Water- Control Structures Associated with Nuclear Power Plant"; and XI.M23, "Inspection of Overhead Heavy Load and Light Load (Related to Refueling) Handling Systems," manage the inspection of safety-related and non-safety related structural bolting.	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XI.M19	Steam Generators	This program consists of aging management activities for the steam generator tubes, plugs, sleeves, and secondary side components that are contained within the steam generator in accordance with the plant technical specifications and includes commitments to NEI 97-06.	Existing program	GALL IV / SRP 3.1	
No	No		XI.M2	Water Chemistry	This program mitigates aging effects of loss of material due to corrosion, cracking due to stress corrosion cracking (SCC) and related mechanisms, and reduction of heat transfer due to fouling in components exposed to a treated water environment. Chemistry programs are used to control water chemistry for impurities (e.g., chloride, fluoride, and sulfate) that accelerate corrosion. This program relies on monitoring and control of water chemistry to keep peak levels of various contaminants below the system-specific limits, based on Electric Power Research Institute (EPRI) guidelines (a) BWRVIP- 190 (EPRI 1016579, BWR Water Chemistry Guidelines – 2008 Revision) for BWRs or (b) EPRI 1014986 (PWR Primary Water Chemistry – Revision 6) and EPRI 1016555 (PWR Secondary Water Chemistry – Revision 7) for pressurized water reactors (PWRs).	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4 GALL III / SRP 3.5	
No	No		XI.M20	Open-Cycle Cooling Water System	This program relies on implementing NRC GL 89-13, which includes (a) surveillance and control of biofouling, (b) tests to verify heat transfer, (c) routine inspection and maintenance program, (d) system walkdown inspection, and (e) review of maintenance, operating, and training practices and procedures. The Open-Cycle Cooling Water System program applies to components constructed of various materials, including steel, stainless steel, aluminum copper alloys, polymeric materials, and concrete.	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	

Yes	No	Table 3.0-1, XI.M21A	XI.M21A	Closed Treated Water Systems	The program includes (a) water treatment, including the use of corrosion inhibitors, to modify the chemical composition of the water such that the function of the equipment is maintained and such that the effects of corrosion are minimized; (b) chemical testing of the water to ensure that the water treatment program maintains the water chemistry within acceptable guidelines; and (c) inspections to determine the presence or extent of corrosion and/or cracking.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XI.M22	Boraflex Monitoring	The program consists of (a) neutron attenuation testing ("blackness testing") to determine gap formation, (b) sampling for the presence of silica in the spent fuel pool along with boron loss, and (c) monitoring and analysis of criticality to assure that the required 5% sub-criticality margin is maintained. This program is implemented in response to NRC GL 96-04.	Existing program	GALL VII / SRP 3.3	
Yes	No	Table 3.0-1, XI.M23	XI.M23	Inspection of Overhead ~~Heavy~~ Load and Light Load Handling Related to Refueling) Handling Systems	The program evaluates the effectiveness of the maintenance monitoring program and the effects of past and future usage on the structural reliability of cranes and hoists. The number and magnitude of lifts made by the hoist or crane are also reviewed. Rails and girders are visually inspected on a routine basis for degradation; functional tests are performed to assure their integrity. These cranes must also comply with the maintenance rule requirements provided in 10 CFR 50.65.	Existing program	GALL VII / SRP 3.3	
No	No		XI.M24	Compressed Air Monitoring	The program consists of monitoring moisture content and corrosion, and performance of the entire system, including (a) preventive monitoring of water (moisture), and other contaminants to keep within the specified limits and (b) inspection of components for indications of loss of material due to corrosion. This program is in response to NRC GL 88-14 and INPO's Significant Operating Experience Report (SOER) 88- 01. It also relies on the ASME OM Guide Part 17 and ISA-S7.0.1-1996 as guidance for testing and monitoring air quality and moisture.	Existing program	GALL VII / SRP 3.3	
No	No		XI.M25	BWR Reactor Water Cleanup System	This program includes ISI and monitoring and control of reactor coolant water chemistry. Related to the inspection guidelines for RWCU piping welds outboard of the second isolation valve, the program includes measures delineated in NUREG-0313, Revision 2, and NRC GL 88-01 and ISI in conformance with the ASME Section XI.	Existing program	GALL VII, SRP 3.3	
No	No		XI.M26	Fire Protection	The program includes fire barrier inspections. The fire barrier inspection program requires periodic visual inspection of fire barrier penetration seals, fire barrier walls, ceilings, and floors, and periodic visual inspection and functional tests of fire-rated doors to ensure that their operability is maintained. The program also includes periodic inspection and testing of halon/carbon dioxide fire suppression systems.	Existing program	GALL VII / SRP 3.3	
Yes	No	Table 3.0-1, XI.M27	XI.M27	Fire Water System	This program manages loss~~consists~~ of material due~~periodic full-flow flush tests, system performance tests~~ to ~~prevent~~ corrosion, including MIC, fouling~~from biofouling components in the fire protection system,~~ and flow blockage because of fouling. This program manages the aging effects through the use of flow testing and visual inspections performed in accordance with the 2011 Edition of NFPA 25. Testing or replacement of sprinklers that have been in place for 50 years is performed in accordance with the 2011 Edition of NFPA 25. In addition to NFPA codes and standards, portions of the water-based fire protection system that are: (a) normally dry but periodically subjected to flow (e.g., dry-pipe or preaction sprinkler system components) and (b) cannot be drained or allow water to collect are to be subjected to augmented testing beyond that specified in NFPA 25, including: (a) periodic full flow tests at the design pressure and flow rate or internal visual inspections and (b) volumetric wall thickness examinations. Flow testing and visual inspections are performed at intervals specified in the 2011 Edition of NFPA 25. The water-based fire protection ~~The~~ system is normally maintained at required operating pressure and is monitored such that loss of system pressure is immediately detected and corrective actions initiated. ~~The program relies on the testing of piping and components in the water-based fire protection system in accordance with applicable National Fire Protection Association (NFPA) commitments. In addition, this program can be modified to include (a) portions of the fire protection sprinkler system that are subjected to full flow tests prior to the period of extended operation, and (b) portions of the fire protection system exposed to water are internally visually inspected.~~	Program is~~should be~~ implemented 5 years before the ~~prior to~~ period of extended operation. Inspections of wetted normally dry piping segments that cannot be drained or that allow water to collect begin 5 years before the period of extended operation. The program's remaining inspections begin during the period of extended operation.	GALL VII / SRP 3.3	
Yes	No	Table 3.0-1, XI.M29	XI.M29	Aboveground Metallic Tanks	This program includes outdoor tanks sited on soil or concrete and indoor large volume tanks containing water designed with internal pressures approximating atmospheric pressure that are sited on concrete. ~~This~~ program includes preventive measures to mitigate corrosion by protecting the external surfaces of steel components, per standard industry practice, and with sealant or caulking for outdoor tanks at the concrete-component interface. External visual examinations are~~visual inspection during periodic system walkdowns should be~~ sufficient to monitor degradation of the protective paint, coating, and caulking~~caulking~~, or sealant (when supplemented with physical manipulation), or uncoated surfaces. Surface exams are conducted to detect cracking when susceptible materials are used (e.g., stainless steel, aluminum). The external surfaces of insulated tanks are sampling based inspected. Internal visual and surface (when necessary to detect cracking) examinations are conducted as well as ~~. Program effectiveness is determined by~~ measuring the thickness of the tank bottoms to ensure that significant degradation is not occurring and that the component's intended function is maintained during the period of extended operation	Program is implemented, and inspections begin 10 years before the period of extended operation.~~Existing program~~	GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	

No	No		XI.M3	Reactor Head Closure Stud Bolting	This program includes (a) ISI in conformance with the requirements of the ASME Code, Section XI, Subsection IWB, Table IWB-2500-1, and (b) preventive measures to mitigate cracking. The program also relies on recommendations to address reactor head stud bolting degradation as delineated in NUREG-1339 and NRC Regulatory Guide (RG) 1.65.	Existing program	GALL IV / SRP 3.1	
No	No		XI.M30	Fuel Oil Chemistry	The program relies on a combination of surveillance and maintenance procedures. Monitoring and controlling fuel oil contamination in accordance with the guidelines of American Society for Testing and Materials (ASTM) Standards D1796, D2276, D2709, and D4057 maintains the fuel oil quality. Exposure to fuel oil contaminants, such as water and microbiological organisms, is minimized by periodic cleaning/draining of tanks and by verifying the quality of new oil before its introduction into the storage tanks.	Existing program	GALL VII / SRP 3.3	
No	No		XI.M31	Reactor Vessel Surveillance	This program, extending the scope of 10 CFR Part 50, Appendix H, "Reactor Vessel Material Surveillance Program Requirements," provides sufficient material data and dosimetry to monitor irradiation embrittlement at the end of the period of extended operation, and to determine the need for operating restrictions on the inlet temperature, neutron spectrum, and neutron flux. If surveillance capsules are not withdrawn during the period of extended operation, operating restrictions are to be established to ensure that the plant is operated under the conditions to which the surveillance capsules were exposed. All capsules in the reactor vessel that are removed and tested must meet the test procedures and reporting requirements of ASTM E 185-82 to the extent practicable for the configuration of the specimens in the capsule. Any changes to the capsule withdrawal schedule, including spare capsules, must be approved by the NRC prior to implementation. Untested capsules placed in storage must be maintained for future insertion.	The surveillance capsule withdrawal schedule revised before the period of extended operation	GALL IV / SRP 3.1	
No	No		XI.M32	One-Time Inspection	The program consists of a one-time inspection of selected components to verify the system-wide effectiveness of an AMP that is designed to prevent or minimize aging to the extent that it will not cause the loss of intended function during the period of extended operation. This program provides inspections that verify that unacceptable degradation is not occurring. It also may trigger additional actions that ensure the intended functions of affected components are maintained during the period of extended operation. The elements of the program include (a) determination of the sample size of components to be inspected based on an assessment of materials of fabrication, environment, plausible aging effects, and operating experience,(b) identification of the inspection locations in the system or component based on the potential for the aging effect to occur, (c) determination of the examination technique, including acceptance criteria that would be effective in managing the aging effect for which the component is examined, and (d) an evaluation of the need for follow-up examinations to monitor the progression of aging if age-related degradation is found that could jeopardize an intended function before the end of the period of extended operation. This program cannot be used for structures or components with known age-related degradation mechanisms or when the environment in the period of extended operation is not expected to be equivalent to that in the prior 40 years. Periodic inspections should be proposed in these cases.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XI.M33	Selective Leaching	The program includes a one-time visual inspection coupled with either hardness measurement or other mechanical examination techniques such as destructive testing, scraping, or chipping of selected components that may be susceptible to selective leaching. This is to determine whether loss of materials is occurring and whether the process will affect the ability of the components to perform their intended function for the period of extended operation.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XI.M35	One-Time Inspection of ASME Code Class 1 Small Bore-Piping	This program augments the existing ASME Code, Section XI requirements and is applicable to small- bore ASME Code Class 1 piping and systems with a nominal pipe size diameter less than 4 inches (NPS<4) and greater than or equal to NPS 1. This program provides a one-time volumetric inspection of a sample of this Class 1 piping. The program includes pipes, fittings, branch connections, and all full and partial penetration (socket) welds. The program includes measures to verify that degradation is not occurring, thereby either confirming that there is no need to manage aging-related degradation or validating the effectiveness of any existing program for the period of extended operation. The one-time inspection program for ASME Code Class 1 small- bore piping includes locations that are susceptible to cracking. This program is applicable to systems that have not experienced cracking of ASME Code Class 1 small-bore piping. This program can also be used for systems that experienced cracking but have implemented design changes to effectively mitigate cracking. (Measure of effectiveness includes (1) the one-time inspection sampling is statistically significant; (2) samples will be selected as described in Element 5; and (3) no repeated failures over an extended period of time.) For systems that have experienced cracking and operating experience indicates design changes have not been implemented to effectively mitigate cracking, periodic inspection is proposed, as managed by a plant- specific AMP. Should evidence of cracking be revealed by a one-time inspection, periodic inspection is also proposed, as managed by a plant- specific AMP.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1	
Yes	No	Table 3.0-1, XI.M36	XI.M36	External Surfaces Monitoring of Mechanical Components	This program is based on system inspections and walkdowns. ~~It~~ ~~This program~~ consists of periodic visual inspections of metallic and polymeric components, such as piping, piping components, ducting, polymeric components, and other components. The program manages aging effects through visual inspection of external surfaces for evidence of loss of material, cracking, and change~~s~~ in material properties. A sample of outdoor component surfaces that are insulated and a sample of indoor insulated components exposed to condensation (due to the in scope component being operated below the dew point), are periodically inspected every 10 years during the period of extended operation. When appropriate for the component and material, manipulation ~~is may be~~ used to augment visual inspection to confirm the absence of elastomer hardening and loss of strength.	Program is implemented 6 months before the period of extended operation and inspections begin during the period of extended operation. ~~Existing program~~	GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XI.M37	Flux Thimble Tube Inspection	The program inspects for the thinning of flux thimble tube walls, which provides a path for the in-core neutron flux monitoring system detectors and forms part of the reactor coolant system pressure boundary. Flux thimble tubes are subject to loss of material at certain locations in the reactor vessel where flow-induced fretting causes wear at discontinuities in the path from the reactor vessel instrument nozzle to the fuel assembly instrument guide tube. A nondestructive examination methodology, such as eddy current testing, or other applicant-justified and US NRC-accepted inspection methods are used to monitor flux thimble tube wear. This program implements the recommendations of NRC Bulletin 88-09, "Thimble Tube Thinning in Westinghouse Reactors."	Existing Program	GALL IV / SRP 3.1	

Yes	No	Table 3.0-1, XI.M38	XI.M38	Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components	The program consists of inspections of the internal surfaces of metallic piping, piping components and piping elements, ducting, heat exchanger components, polymeric and elastomeric components, and other components that are exposed to environments of uncontrolled indoor air, outdoor air, air with borated water leakage, condensation, moist air, diesel exhaust, and any water environmentsystems other than open- cycle cooling water, closed treated water, and fire water. ~~that are exposed to environments of air - indoor, uncontrolled; air - outdoor; condensation.~~ These internal inspections are performed during the periodic system and component surveillances or during the performance of maintenance activities when the surfaces are made accessible for visual inspection. At a minimum, in each 10 year period during the period of extended operation a representative sample of 20 percent of the population (defined as components having the same combination of material, environment, and aging effect) or a maximum of 25 components per population is inspected. Where practical, the inspections focus on the bounding or lead components most susceptible to aging because of time in service, and severity of operating conditions. Opportunistic inspections continue in each period despite meeting the sampling limit. The program includes visual inspections to ensure that existing environmental conditions are not causing material degradation that could result in a loss of the component's intended function. For certain materials, such as polymers, physical manipulation or pressurization ~~(e.g., hydrotesting)~~ to detect hardening or loss of strength is used to augment the visual examinations conducted under this program. If visual inspection of internal surfaces is not possible, then the applicant needs to provide a plant-specific program.	Program is implemented 6 months before the period of extended operation and inspections begin during the period of extended operation.~~Existing program.~~	GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4 GALL VI / SRP 3.6	
No	No		XI.M39	Lubricating Oil Analysis	This program ensures that the oil environment in the mechanical systems is maintained to the required quality. The program ensures that oil systems are maintained free of contaminants (primarily water and particulates), thereby preserving an environment that is not conducive to loss of material or reduction of heat transfer. Testing activities include sampling and analysis of lubricating oil for detrimental contaminants. The presence of water or particulates may also indicate in-leakage and corrosion product buildup.	Existing program	GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XI.M4	BWR Vessel ID Attachment Welds	The program includes (a) inspection and flaw evaluation in conformance with the guidelines of staff-approved BWRVIP-48-A to ensure the long- term integrity and safe operation of boiling water reactor (BWR) vessel internal components.	Existing program	GALL IV / SRP 3.1	
No	No		XI.M40	Monitoring of Neutron-Absorbing Materials other than Boraflex	This program relies on periodic inspection, testing, monitoring, and analysis of the criticality design to assure that the required 5 percent sub-criticality margin is maintained.	Program should be implemented prior to period of extended operation	GALL VII / SRP 3.3	
Yes	No	Table 3.0-1, XI.M41	XI.M41	Buried and Underground Piping and Tanks	This comprehensive program is designed to manage the aging of the external surfaces of buried and underground piping and tanks. It addresses piping and tanks composed of any material, including metallic, polymeric, concrete, and cementitious materials. The program manages aging through preventive, mitigative, and inspection activities. It manages all applicable aging effects, such as loss of material, cracking, and changes in material properties.	Inspections to be completed before the period of extended operation	GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
Yes	Yes	Table 3.0-1, XI.M42	XI.M42	Internal Coatings/Linings for In Scope Piping, Piping Components, Heat Exchangers, and Tanks	The program consists of periodic visual inspections of all coatings/linings applied to the internal surfaces of in scope components exposed to closed cycle cooling water, raw water, treated water, treated borated water, waste water, lubricating oil or fuel oil where loss of coating or lining integrity could impact the component's and downstream component's current licensing basis intended function(s). For coated/lined surfaces determined to not meet the acceptance criteria, physical testing is performed where physically possible (i.e., sufficient room to conduct testing) in conjunction with repair or replacement of the coating/lining. The training and qualification of individuals involved in coating/lining inspections of noncementitious coatings/linings are conducted in accordance with ASTM International Standards endorsed in RG 1.54 including guidance from the staff associated with a particular standard. For cementitious coatings, training and qualifications are based on an appropriate combination of education and experience related to inspecting concrete surfaces.	Program is implemented no later than six months before the period of extended operation and inspections begin no later than the last refueling outage before the period of extended operation.	GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XI.M5	BWR Feedwater Nozzle	This program includes (a) enhancing ISI specified in the ASME Code, Section XI, with the recommendation of General Electric (GE) NE-523- A71-0594 to perform periodic ultrasonic testing inspection of critical regions of the BWR feedwater nozzle.	Existing program	GALL IV / SRP 3.1	
No	No		XI.M6	BWR Control Rod Drive Return Line Nozzle	The program includes mandatory in-service inspection in accordance with ASME Code Section XI, Subsection IWB, Table IWB 2500-1 and augmented ISI examinations in accordance with the applicant's commitments to Generic Letter 80-095 to implement the recommendations in NUREG-0619.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1	
No	No		XI.M7	BWR Stress Corrosion Cracking	The program to manage intergranular stress corrosion cracking (IGSCC) in stainless steel or nickel alloy BWR coolant pressure boundary piping is delineated in NUREG-0313, Rev. 2, and NRC Generic Letter (GL) 88-01 and its Supplement 1. The program includes (a) preventive measures to mitigate IGSCC and (b) inspection and flaw evaluation to monitor IGSCC and its effects.	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VII / SRP 3.3	
No	No		XI.M8	BWR Penetrations	The program includes inspection and flaw evaluation in conformance with the guidelines of staff-approved boiling water reactor vessel and internals project documents BWRVIP-47-A, BWRVIP-49-A, and BWRVIP-27-A, to ensure the long-term integrity and safe operation of BWR vessel internal components.	Existing program	GALL IV / SRP 3.1	
No	No		XI.M9	BWR Vessel Internals	The program includes inspection and flaw evaluation in conformance with the guidelines of applicable and staff-approved BWRVIP documents, and to ensure the long-term integrity and safe operation of BWR vessel internal components. This program also consists of (1) determination of the susceptibility of cast austenitic stainless steel components, (2) accounting for the synergistic effect of thermal aging and neutron irradiation, and (3) implementing a supplemental examination program, as necessary. This program also addresses aging degradation of X-750 alloy and precipitation-hardened (PH) martensitic stainless steel (e.g., 15-5 and 17-4 PH steel) materials and martensitic stainless steel (e.g., 403, 410, 431 steel) that are used in BWR vessel internal components.	Existing program	GALL IV / SRP 3.1	
No	No		XI.S1	ASME Section XI, Subsection IWE Inservice Inspection (IWE)	The ASME Section XI, Subsection IWE program consists of periodic visual, surface, and volumetric inspection of pressure-retaining components of steel and concrete containments for signs of degradation, assessment of damage, and corrective actions. The program also includes aging management for the potential loss of material due to corrosion in the inaccessible areas of the BWR Mark I steel containment, and surface examination for the detection of cracking of structural bolting. This program is in accordance with ASME Section XI, Subsection IWE, 2004 edition.	Existing program	GALL II / SRP 3.5	

No	No		XI.S2	ASME Section XI, Subsection IWL Inservice Inspection (IWL)	The ASME Section XI, Subsection IWL program consists of (a) periodic visual inspection of concrete surfaces for reinforced and prestressed concrete containments, (b) periodic visual inspection and sample tendon testing of unbonded post-tensioning systems for prestressed concrete containments for signs of degradation, assessment of damage, and corrective actions, and testing of the tendon corrosion protection medium and free water. Measured tendon lift-off forces are compared to predicted tendon forces calculated in accordance with RG 1.35.1. This program is in accordance with ASME Section XI, Subsection IWL, 2004 edition.	Existing program	GALL II / SRP 3.5	
No	No		XI.S3	ASME Section XI, Subsection IWF Inservice Inspection (IWF)	This program consists of periodic visual examination of component supports and high-strength structural bolting for signs of degradation, evaluation, and corrective actions. This program is in accordance with ASME Section XI, Subsection IWF, 2004 edition.	Existing program	GALL II / SRP 3.5 GALL III / SRP 3.5	
No	No		XI.S4	10 CFR Part 50, Appendix J	This program consists of monitoring leakage rates through containment liner/welds, penetrations, fittings, and other access openings to detect degradation of the containment pressure boundary. Corrective actions are taken if leakage rates exceed acceptance criteria. This program is implemented in accordance with 10 CFR Part 50 Appendix J, RG 1.163 and NEI 94-01, Rev. 0.	Existing program	GALL II / SRP 3.5	
No	No		XI.S5	Masonry Walls	The program consists of inspections, based on IE Bulletin 80-11 and plant-specific monitoring proposed by IN 87-67, for managing loss of material and cracking of masonry walls.	Existing program	GALL III / SRP 3.5	
No	No		XI.S6	Structures Monitoring	The program consists of periodic inspection and monitoring the condition of structures and structure component supports to ensure that aging degradation leading to loss of intended functions will be detected and that the extent of degradation can be determined. This program is implemented in accordance with NUMARC 93-01, Rev. 2 and RG 1.160, Rev. 2.	Existing program	GALL VII / SRP 3.3 GALL II / SRP 3.5 GALL III / SRP 3.5 GALL VI / SRP 3.6	
No	No		XI.S7	R.G. 1.127, Inspection of Water-Control Structures Associated with Nuclear Power Plants	The program consists of inspection and surveillance programs for dams, slopes, canals, intake structure, and other water-control structures associated with emergency cooling water systems or flood protection based on RG 1.127, Rev. 1. The program also includes structural steel and structural bolting associated with water-control structures, steel or wood piles and sheeting required for the stability of embankments and channel slopes, and miscellaneous steel, such as sluice gates and trash racks.	Existing program	GALL III / SRP 3.5	
No	No		XI.S8	Protective Coating Monitoring and Maintenance	This program consists of guidance for selection, application, inspection, and maintenance of protective coatings. This program is implemented in accordance with RG 1.54, Rev. 1 or latest revision.	Existing program	GALL III / SRP 3.5	
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Basis Document: MARKUP/SRP-LR MARKUP.docx

Changes Proposed?	New Item?	Location	Identifier	Further Evaluation Section	Title	Comments
No	No		3.1.2.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.1.2.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
No	No		3.1.2.2.1, Cumulative Fatigue Damage	3.1.2.2.1	Cumulative Fatigue Damage	
Yes	Yes	Section 3.1.2.2.10	3.1.2.2.10, Loss of Fracture Toughness due to Neutron Irradiation Embrittlement; Change in Dimension due to Void	3.1.2.2.10	Loss of Fracture Toughness due to Neutron Irradiation Embrittlement; Change in Dimension due to Void Swelling; Loss of Preload due to	
No	No		3.1.2.2.11.1, Cracking due to Primary Water Stress Corrosion Cracking	3.1.2.2.11.1	Cracking due to Primary Water Stress Corrosion Cracking	
No	No		3.1.2.2.11.2,Cracking due to Primary Water Stress Corrosion Cracking	3.1.2.2.11.2	Cracking due to Primary Water Stress Corrosion Cracking	
Yes	Yes	Section 3.1.2.2.12	3.1.2.2.12, Cracking due to Fatigue	3.1.2.2.12	Cracking due to Fatigue	
Yes	Yes	Section 3.1.2.2.13	3.1.2.2.13, Cracking due to Stress Corrosion Cracking and Fatigue	3.1.2.2.13	Cracking due to Stress Corrosion Cracking and Fatigue	
Yes	Yes	Section 3.1.2.2.14	3.1.2.2.14, Loss of Material due to Wear	3.1.2.2.14	Loss of Material due to Wear	
Yes	Yes	Section 3.1.2.2.16	3.1.2.2.16, Ongoing Review of Operating Experience	3.1.2.2.16	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.1.2.2.9	3.1.2.2.9, Cracking due to Stress Corrosion Cracking and Irradiation Assisted Stress Corrosion Cracking	3.1.2.2.9	Cracking due to Stress Corrosion Cracking and Irradiation-Assisted Stress Corrosion Cracking	
No	No		3.1.3.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.1.3.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.1.3.2.10	3.1.3.2.10, Loss of Fracture Toughness due to Neutron Irradiation Embrittlement; Change in Dimension due to Void	3.1.3.2.10	Loss of Fracture Toughness due to Neutron Irradiation Embrittlement; Change in Dimension due to Void Swelling; Loss of Preload due to	
Yes	Yes	Section 3.1.3.2.12	3.1.3.2.12, Cracking due to Fatigue	3.1.3.2.12	Cracking due to Fatigue	
Yes	Yes	Section 3.1.3.2.13	3.1.3.2.13, Cracking due to Stress Corrosion Cracking and Fatigue	3.1.3.2.13	Cracking due to Stress Corrosion Cracking and Fatigue	
Yes	Yes	Section 3.1.3.2.14	3.1.3.2.14, Loss of Material due to Wear	3.1.3.2.14	Loss of Material due to Wear	
Yes	Yes	Section 3.1.3.2.16	3.1.3.2.16, Ongoing Review of Operating Experience	3.1.3.2.16	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.1.3.2.9	3.1.3.2.9, Cracking due to Stress Corrosion Cracking and Irradiation Assisted Stress Corrosion Cracking	3.1.3.2.9	Cracking due to Stress Corrosion Cracking and Irradiation-Assisted Stress Corrosion Cracking	
No	No		3.2.2.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.2.2.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.2.2.2.8	3.2.2.2.8, Ongoing Review of Operating Experience	3.2.2.2.8	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.2.2.2.9	3.2.2.2.9, Loss of Material due to Recurring Internal Corrosion	3.2.2.2.9	Loss of Material due to Recurring Internal Corrosion	
No	No		3.2.3.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.2.3.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.2.3.2.8	3.2.3.2.8, Ongoing Review of Operating Experience	3.2.3.2.8	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.2.3.2.9	3.2.3.2.9, Loss of Material due to Recurring Internal Corrosion	3.2.3.2.9	Loss of Material due to Recurring Internal Corrosion	
No	No		3.3.2.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.3.2.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.3.2.2.4	3.3.2.2.4, Loss of Material due to Cladding Breach	3.3.2.2.4	Loss of Material due to Cladding Breach	
Yes	Yes	Section 3.3.2.2.7	3.3.2.2.7, Ongoing Review of Operating Experience	3.3.2.2.7	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.3.2.2.8	3.3.2.2.8, Loss of Material due to Recurring Internal Corrosion	3.3.2.2.8	Loss of Material due to Recurring Internal Corrosion	
No	No		3.3.3.2, AMR Results Report for Which Further Evaluation is Recommended by the GALL Report	3.3.3.2	AMR Results Report for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.3.3.2.7	3.3.3.2.7, Ongoing Review of Operating Experience	3.3.3.2.7	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.3.3.2.8	3.3.3.2.8, Loss of Material due to Recurring Internal Corrosion	3.3.3.2.8	Loss of Material due to Recurring Internal Corrosion	
No	No		3.4.2.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.4.2.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.4.2.2.5	3.4.2.2.5, Ongoing Review of Operating Experience	3.4.2.2.5	Ongoing Review of Operating Experience	

Yes	Yes	Section 3.4.2.2.6	3.4.2.2.6, Loss of material due to Recurring Internal Corrosion	3.4.2.2.6	Loss of material due to Recurring Internal Corrosion	
No	No		3.4.3.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.4.3.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.4.3.2.5	3.4.3.2.5, Ongoing Review of Operating Experience	3.4.3.2.5	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.4.3.2.6	3.4.3.2.6, Loss of Material due to Recurring Internal Corrosion	3.4.3.2.6	Loss of Material due to Recurring Internal Corrosion	
No	No		3.5.2.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.5.2.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.5.2.2.4	3.5.2.2.4, Ongoing Review of Operating Experience	3.5.2.2.4	Ongoing Review of Operating Experience	
No	No		3.5.3.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.5.3.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.5.3.2.4	3.5.3.2.4, Ongoing Review of Operating Experience	3.5.3.2.4	Ongoing Review of Operating Experience	
No	No		3.6.2.2, AMR Results for Which Further Evaluation is Recommended by the GALL Reporg	3.6.2.2	AMR Results for Which Further Evaluation is Recommended by the GALL Reporg	
Yes	Yes	Section 3.6.2.2.5	3.6.2.2.5, Ongoing Review of Operating Experience	3.6.2.2.5	Ongoing Review of Operating Experience	
No	No		3.6.3.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.6.3.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.6.3.2.5	3.6.3.2.5, Ongoing Review of Operating Experience	3.6.3.2.5	Ongoing Review of Operating Experience	
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