Table 3.3.2-1 Auxiliary Systems - Chemical and Volume Control System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Boric Acid Storage Tanks	Fluid Pressure Boundary	Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program			G	VII.J-18	3-81	C, 3001
Oil Cooler Shell	Fluid Pressure Boundary	Brass	Oil (Int)	Loss of Material	One-Time Inspection Program			J	VII.E1-11	3-24	C
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.I-11	3-72	C
Oil Cooler Tubes	Fluid Pressure Boundary	Copper Nickel	Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program			J	VII.E1-6	3-38	A
Letdown Heat Exchanger Shell	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-24	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.E1.8-c	3.3.1-15	B			

Table 3.3.2-1 Auxiliary Systems - Chemical and Volume Control System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Letdown Heat Exchanger Channel Head, Tubes, Tube Sheet	Fluid Pressure Boundary	Stainless Steel	Treated Water (Ext)	Cracking	Closed Cycle Cooling Water Program	VII.E1.8-b	3.3.1-09	B			
Letdown Heat Exchanger Tubes, Tube Sheet	Fluid Pressure Boundary	Stainless Steel	Treated Water (Ext)	Loss of Material	Closed Cycle Cooling Water Program			H	VII.C2-9	3-39	C
Letdown Heat Exchanger Tubes	Fluid Pressure Boundary	Stainless Steel	Treated Water (Ext)	Loss of Material	One-Time Inspection Program			H	V.D2-23	2-3	B, 3001
Letdown Heat Exchanger Channel Head, Tubes, Tube Sheet	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Cracking	ASME Section XI IWB, IWC, IWD, IWF Inservice Inspection Program	VII.E1.8-b	3.3.1-09	A			
					Water Chemistry Program	VII.E1.8-b	3.3.1-09	A			
Fasteners	Fluid Pressure Boundary	Low-Alloy Steel	Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, A			

Table 3.3.2-1 Auxiliary Systems - Chemical and Volume Control System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	A			
					Boric Acid Corrosion Program	VII.E1.1-b	3.3.1-14	A			
						VII.E1.2-a	3.3.1-14	A			
						VII.E1.5-b	3.3.1-14	A			
						VII.E1.6-a	3.3.1-14	A			
						VII.E1.7-b	3.3.1-14	A			
						VII.E1.8-d	3.3.1-14	A			
						VII.E1.10-a	3.3.1-14	A			
		Stainless Steel	Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	IV.A2-7	1-44	C, 3001, 3004
			Containment Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	IV.A2-7	1-44	C, 3001, 3004

Table 3.3.2-1 Auxiliary Systems - Chemical and Volume Control System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Pipe - CVC Cooler	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.1-a	3.3.1-15	366, B			
Nozzle - CVC Spray	Fluid Pressure Boundary	Stainless Steel	Gas (Ext)	Loss of Material	One-Time Inspection Program			G	VII.J-21	3-79	B, 3001
Tubing - CVC Oil	Fluid Pressure Boundary	Stainless Steel	Oil (Int)	Loss of Material	One-Time Inspection Program			G	VII.E1-13	3-27	E
Pipe and Pressure Test Fittings	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Cracking	ASME Section XI IWB, IWC, IWD, IWF Inservice Inspection Program	IV.C2.2-f	3.1.1-36	A			
						IV.C2.2-h	3.1.1-07	A			
					One-Time Inspection Program	IV.C2.2-h	3.1.1-07	B			

Table 3.3.2-1 Auxiliary Systems - Chemical and Volume Control System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					Water Chemistry Program	IV.C2.2-f	3.1.1-36	A			
						IV.C2.2-h	3.1.1-07	A			
Flow Elements	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	IV.C2.2-h	3.1.1-07	367, H	V.D1-11	2-7	E
Regenerative Heat Exchanger Tubes, Tube Sheet	Fluid Pressure Boundary	Stainless Steel	Treated Water (Ext)	Cracking	Water Chemistry Program	VII.E1.7-c	3.3.1-09	A			
					One-Time Inspection Program	VII.E1.7-c	3.3.1-09	B			
Regenerative Heat Exchanger Channel Head, Shell, Tubes, Tube Sheet	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Cracking	ASME Section XI IWB, IWC, IWD, IWF Inservice Inspection Program	VII.E1.7-c	3.3.1-09	A			
					Water Chemistry Program	VII.E1.7-c	3.3.1-09	A			

Table 3.3.2-1 Auxiliary Systems - Chemical and Volume Control System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Control Valves	Fluid Pressure Boundary	Cast Austenitic SS	Treated Water (Int)	Cracking	ASME Section XI IWB, IWC, IWD, IWF Inservice Inspection Program	VII.E1.7-c	3.3.1-09	C			
					One-Time Inspection Program	VII.E1.7-c	3.3.1-09	D			
					Water Chemistry Program	VII.E1.7-c	3.3.1-09	C			
Letdown Stop Valve CV-2001	Fluid Pressure Boundary	Cast Austenitic SS	Treated Water (Int)	Reduction of Fracture Toughness	ASME Section XI IWB, IWC, IWD, IWF Inservice Inspection Program			H	IV.C2-7	1-47	C
Check, Control, Manual & Relief valves; Instrument Assemblies	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Cracking	ASME Section XI IWB, IWC, IWD, IWF Inservice Inspection Program	VII.E1.5-a	3.3.1-04	C			
					One-Time Inspection Program	VII.E1.5-a	3.3.1-04	D			
					Water Chemistry Program	VII.E1.5-a	3.3.1-04	C			

Table 3.3.2-2 Auxiliary Systems - Circulating Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Fasteners	Fluid Pressure Boundary	Low-Alloy Steel	Plant Indoor Air (Ext)	Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	A			
				Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, A			
Pipe & Fittings	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A			
Pumps	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	Open Cycle Cooling Water Program	VII.C1.5-a	3.3.1-17	A			
Valves & Dampers	Fluid Pressure Boundary	Cast Iron	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	Open Cycle Cooling Water Program	VII.C1.5-a	3.3.1-17	A			

Table 3.3.2-2 Auxiliary Systems - Circulating Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					One-Time Inspection Program	VII.C1.5-a	3.3.1-17	B, 301			

Table 3.3.2-3 Auxiliary Systems- Component Cooling Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulators	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	Closed Cycle Cooling Water Program			319, G	VII.H2-21	3-16	B
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.4-a	3.3.1-15	B			
Bistable/Switch (In-line Flow Indicator)	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	D			
Component Cooling Heat Exchanger	Fluid Pressure Boundary	Aluminum Bronze	Raw Water (Ext)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	315, C			

Table 3.3.2-3 Auxiliary Systems- Component Cooling Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	A			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C1.3-a	3.3.1-29	301, B			
		Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	380, A			
				Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	E			
					Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	A			
			Treated Water (Ext)	Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	E			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	E			

Table 3.3.2-3 Auxiliary Systems- Component Cooling Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Component Cooling Heat Exchanger	Fluid Pressure Boundary Heat Transfer	Copper Alloys	Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	A			
				Heat Transfer Degradation	Closed Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	315, E			
					Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	313, 315, 316, A			
				Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	313, 315, E			
					Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	313, 315, A			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C1.3-a	3.3.1-29	301, 313, 315, B			
			Treated Water (Ext)	Heat Transfer Degradation	Closed Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	313, 315, 316, E			

Table 3.3.2-3 Auxiliary Systems- Component Cooling Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	313, 315, 323, E			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C1.3-a	3.3.1-29	301, 313, B			
Cooler	Fluid Pressure Boundary	Nickel-Based Alloys	Treated Water (Ext)	Loss of Material	Closed Cycle Cooling Water Program			308, J	VIII.B1-1	4-29	E, 3001
					One-Time Inspection Program			308, J	VIII.B1-1	4-29	E, 3001
			Treated Water (Int)	Loss of Material	One-Time Inspection Program			308, J	IV.D1-25	2-64	E, 3001
					Water Chemistry Program			308, J	IV.D1-25	2-64	E, 3001
		Stainless Steel	Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	D			
Heat Exchanger	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			

Table 3.3.2-3 Auxiliary Systems- Component Cooling Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.4-a	3.3.1-15	C			
		Copper Alloys	Treated Water (Ext)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.4-a	3.3.1-15	323, C			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C2.3-a	3.3.1-15	301, C			
			Treated Water (Int)	Cracking	Closed Cycle Cooling Water Program			J	VII.C2-5	3-38	D, 3001
Fasteners	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, C			
				Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, C			
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			

Table 3.3.2-3 Auxiliary Systems- Component Cooling Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, C			
				Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, C			
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
		Stainless Steel	Containment Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	IV.A2-7	1-44	C, 3001, 3004
			Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	IV.A2-7	1-44	C, 3001, 3004
Primary Coolant Pump Motor Oil Cooler	Fluid Pressure Boundary	Brass	Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	325, E			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C1.3-a	3.3.1-29	325, D			
		Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			

Table 3.3.2-3 Auxiliary Systems- Component Cooling Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	D			
		Copper Nickel	Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	325, E			
Pipe & Fittings	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	D			
	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-3 Auxiliary Systems- Component Cooling Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.1-a	3.3.1-15	B			
		Copper Alloys	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program			317, F	VII.I-11	3-72	A
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	325, E			
Pumps	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.3-a	3.3.1-15	B			
Valves & Dampers	Fluid Pressure Boundary	Bronze	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program			317, F	VII.I-11	3-72	A
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	325, E			
		Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			

Table 3.3.2-3 Auxiliary Systems- Component Cooling Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	B			
		Cast Iron	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-3 Auxiliary Systems- Component Cooling Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Valves & Dampers	Fluid Pressure Boundary	Cast Iron	Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	390, B			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C2.3-a	3.3.1-29	D			
Waste Gas Compressor Cooler	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	318, 320, D			
		Stainless Steel	Gas (Int)	Cracking	Closed Cycle Cooling Water Program			308, J	VII.J-21	3-79	A, 3001
				Loss of Material	Closed Cycle Cooling Water Program			308, J	VII.J-21	3-79	A, 3001
			Treated Water (Ext)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	323, D			

Table 3.3.2-4 Auxiliary Systems - Compressed Air System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulators	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.D.3-a	3.3.1-19	E			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
Air Dryers	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.D.6-a	3.3.1-19	E			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
Blowers, Fans, Compressors, Vacuum	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.D.6-a	3.3.1-19	E			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-4 Auxiliary Systems - Compressed Air System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Filters/Strainers	Fluid Pressure Boundary Filtration	Aluminum	Air (Int)	Cracking	One-Time Inspection Program			F	V.F-2	2-32	A, 3001
				Loss of Material	One-Time Inspection Program			F	V.F-2	2-32	A, 3001
		Brass	Air (Int)	Cracking	One-Time Inspection Program			F	VII.J-4	3-80	A, 3001
				Loss of Material	One-Time Inspection Program			F	VII.J-4	3-80	A, 3001
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.I-11	3-72	A
		Bronze	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.I-11	3-72	A
		Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.D.5-a	3.3.1-19	E			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			

Table 3.3.2-4 Auxiliary Systems - Compressed Air System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
		Cast Iron	Air (Int)	Loss of Material	One-Time Inspection Program	VII.D.5-a	3.3.1-19	E			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.D.5-a	3.3.1-19	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	335, A			
Filters/Strainers	Fluid Pressure Boundary Filtration	Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.D.5-a	3.3.1-19	E			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
		Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program			F	VII.J-20	3-80	A
			Oil (Int)	Loss of Material	One-Time Inspection Program			F	VII.H2-17	3-27	E

Table 3.3.2-4 Auxiliary Systems - Compressed Air System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Heat Exchangers	Fluid Pressure Boundary	Bronze	Air (Int)	Loss of Material	Open Cycle Cooling Water Program			F	VII.J-4	3-80	A
			Raw Water (Ext)	Loss of Material	Open Cycle Cooling Water Program			F	VII.C1-1	3-57	A
		Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	Open Cycle Cooling Water Program			F	VII.C1-3	3-63	A
		Copper Alloys	Air (Int)	Loss of Material	One-Time Inspection Program			F	VII.J-4	3-80	A
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.I-11	3-72	A
Fasteners	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	VII.I-5	3-35	A, 3001, 3004
				Loss of Material	Bolting Integrity Program	VII.I.1-b	3.3.1-05	E			

Table 3.3.2-4 Auxiliary Systems - Compressed Air System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
		Stainless Steel	Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	IV.A2-7	1-44	C, 3001, 3004
		Copper Alloys	Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.I-11	3-72	A
				Loss of Preload	Bolting Integrity Program			324, F	VII.J-4	3-80	A, 3001, 3004
Pipe & Fittings	Fluid Pressure Boundary	Brass	Air (Int)	Cracking	One-Time Inspection Program			F	VII.J-4	3-80	A, 3001
				Loss of Material	One-Time Inspection Program			F	VII.J-4	3-80	A, 3001
		Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.D.1-a	3.3.1-19	E			

Table 3.3.2-4 Auxiliary Systems - Compressed Air System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
		Copper Alloys	Air (Int)	Cracking	One-Time Inspection Program			F	VII.J-4	3-80	A, 3001
				Loss of Material	One-Time Inspection Program			F	VII.J-4	3-80	A, 3001
			Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.I-11	3-72	A
		Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program			F	VII.J-20	3-80	A, 3001
Pumps	Fluid Pressure Boundary	Cast Iron	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	335, A			

Table 3.3.2-4 Auxiliary Systems - Compressed Air System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Traps (Steam)	Fluid Pressure Boundary	Aluminum	Air (Int)	Cracking	One-Time Inspection Program			F	V.F-2	2-32	A, 3001
				Loss of Material	One-Time Inspection Program			F	V.F-2	2-32	A, 3001
		Cast Iron	Air (Int)	Loss of Material	One-Time Inspection Program	VII.D.2-a	3.3.1-19	E			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	335, A			
Valves & Dampers	Fluid Pressure Boundary	Brass	Air (Int)	Cracking	One-Time Inspection Program			F	VII.J-4	3-80	A, 3001
				Loss of Material	One-Time Inspection Program			F	VII.J-4	3-80	A, 3001
			Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.I-11	3-72	A

Table 3.3.2-4 Auxiliary Systems - Compressed Air System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.I-11	3-72	A
			Oil	Cracking	One-Time Inspection Program			F	VII.H2-10	3-24	B, 3002
				Loss of Material	One-Time Inspection Program			F	VII.H2-10	3-24	B, 3002
		Bronze	Air (Int)	Cracking	One-Time Inspection Program			F	VII.J-4	3-80	A, 3001
				Loss of Material	One-Time Inspection Program			F	VII.J-4	3-80	A, 3001
			Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.I-11	3-72	A
		Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.D.2-a	3.3.1-19	E			

Table 3.3.2-4 Auxiliary Systems - Compressed Air System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
Valves & Dampers	Fluid Pressure Boundary	Cast Iron	Air (Int)	Loss of Material	One-Time Inspection Program	VII.D.2-a	3.3.1-19	E			
			Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	335, A			
		Copper Alloys	Containment Air (Ext) Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.I-11	3-72	A

Table 3.3.2-4 Auxiliary Systems - Compressed Air System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
		Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program			F	VII.J-20	3-80	A, 3001

Table 3.3.2-5 Auxiliary Systems- Containment Air Recirculation and Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Containment Air Cooler Coils	Fluid Pressure Boundary	Copper Alloys	Air (Ext)	Heat Transfer Degradation	System Monitoring Program	VII.F3.2-a	3.3.1-05	387, H	V.F-4	2-35	A, 3001
				Loss of Material	One-Time Inspection Program	VII.F3.2-a	3.3.1-05	B			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	325, C			
				Heat Transfer Degradation	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	316, 325, C			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	325, 394, C			
	Heat Transfer	Copper Alloys	Air (Ext)	Heat Transfer Degradation	System Monitoring Program	VII.F3.2-a	3.3.1-05	387, H	V.F-4	2-35	A, 3001
				Loss of Material	One-Time Inspection Program	VII.F3.2-a	3.3.1-05	B			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	325, C			

Table 3.3.2-5 Auxiliary Systems- Containment Air Recirculation and Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Heat Transfer Degradation	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	316, 325, C			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	325, 394, C			
Containment Air Cooler Filter	Filtration	Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F3.4-a	3.3.1-05	308, B			
	Fluid Pressure Boundary	Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F3.4-a	3.3.1-05	308, B			
Containment Air Cooler Flow Element	Flow Measurement	Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F3.4-a	3.3.1-05	308, E			
	Fluid Pressure Boundary	Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F3.4-a	3.3.1-05	308, E			
Containment Air Cooler Housing	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F3.1-a	3.3.1-05	391, B			

Table 3.3.2-5 Auxiliary Systems- Containment Air Recirculation and Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
Containment Air Cooler Recirculation Fans	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F3.1-a	3.3.1-05	391, B			
			Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
Dampers	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F3.1-a	3.3.1-05	391, B			
			Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-5 Auxiliary Systems- Containment Air Recirculation and Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Drip Pans	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.F3.1-a	3.3.1-05	B			
Duct	Pressure Boundary	Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F3.1-a	3.3.1-05	B			
			Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	386, A			
Fasteners	Fluid Pressure Boundary Structure Functional Support	Stainless Steel	Containment Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	IV.A2-7	1-44	C, 3001, 3004
		Low-Alloy Steel	Containment Air (Ext)	Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, A			

Table 3.3.2-5 Auxiliary Systems- Containment Air Recirculation and Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, D			
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
Manual and Instrumentation Valves	Fluid Pressure Boundary	Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F3.4-a	3.3.1-05	308, E			

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulators	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VIII.H.2-a	3.4.1-08	A			
						VII.H2.2-a	3.3.1-05	B			
			Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H2.5-a	3.3.1-07	B			
					One-Time Inspection Program	VII.H2.5-a	3.3.1-07	B			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.H2.1-a	3.3.1-15	D			
Blowers Fans Compressor Vacuum	Fluid Pressure Boundary	Cast Iron	Air (Int)	Loss of Material	One-Time Inspection Program	VII.H2.3-a	3.3.1-05	399, A			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Cooler	Fluid Pressure Boundary	Carbon Steel	Oil (Ext)	Heat Transfer Degradation	One-Time Inspection Program			J	VII.J-27	3-80	D, 3001
				Loss of Material	One-Time Inspection Program	VII.H2.5-a	3.3.1-07	D			
			Oil (Int)	Loss of Material	One-Time Inspection Program	VII.H2.5-a	3.3.1-07	D			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program			J	V.D2-12	2-28	A
				Heat Transfer Degradation	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	A			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	A			
	Heat Transfer	Carbon Steel	Oil (Ext)	Heat Transfer Degradation	One-Time Inspection Program			J	VII.J-27	3-80	D, 3001

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material	One-Time Inspection Program	VII.H2.5-a	3.3.1-07	D			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program			J	V.D2-12	2-28	A
				Heat Transfer Degradation	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	A			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	A			
Fasteners	Fluid Pressure Boundary	Low-Alloy Steel	Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, A			
				Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	A			
		Stainless Steel	Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	IV.A2-7	1-44	C, 3004, 3007
Filters/Strainers	Filtration	Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.H2.3-a	3.3.1-05	386, A			

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Atmosphere/ Weather (Ext)	Loss of Material	System Monitoring Program			F	VII.J-8	3-74	A
	Fluid Pressure Boundary	Carbon Steel	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H2.5-a	3.3.1-07	D			
					One-Time Inspection Program	VII.H2.5-a	3.3.1-07	D			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
		Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.H2.3-a	3.3.1-05	386, A			
			Atmosphere/ Weather (Ext)	Loss of Material	System Monitoring Program			F	VII.J-8	3-74	A
Heat Exchangers	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.H2.4-a	3.3.1-05	A			
			Oil (Int)	Loss of Material	One-Time Inspection Program	VII.G.7-b	3.3.1-06	D			

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program			F	V.D2-12	2-28	A
				Heat Transfer Degradation	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	H	V.D2-12	2-28	A
				Loss of Material	Open Cycle Cooling Water Program	VIII.D1.3-a	3.4.1-02	C			
			Treated Water (Int)	Heat Transfer Degradation	Closed Cycle Cooling Water Program	VII.H2.1-a	3.3.1-15	H	VII.F4-15	3-42	D, 3001
				Loss of Material	Closed Cycle Cooling Water Program	VII.H2.1-a	3.3.1-15	B			
Heat Exchangers	Fluid Pressure Boundary	Copper Alloys	Air (Ext)	Loss of Material	One-Time Inspection Program			F	VIII.I-2	4-32	D, 3001
			Oil (Ext)	Heat Transfer Degradation	One-Time Inspection Program	VII.G.7-b	3.3.1-06	H	VII.J-6	3-80	D, 3001

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.G.7-b	3.3.1-06	301, H	VII.J-6	3-80	D, 3001
				Loss of Material	One-Time Inspection Program	VII.G.7-b	3.3.1-06	D			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	A			
				Heat Transfer Degradation	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	396, A			
						VII.C1.3-b	3.3.1-17	396, A			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C1.3-a	3.3.1-29	301, B			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	396, A			
Heat Exchangers	Fluid Pressure Boundary	Copper Alloys	Treated Water (Ext)	Heat Transfer Degradation	Closed Cycle Cooling Water Program	VII.H2.1-a	3.3.1-15	H	VII.C1-4	3-60	A, 3009

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	B			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C1.3-a	3.3.1-29	301, B			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	B			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C1.3-a	3.3.1-29	301, B			
Heat Exchangers	Heat Transfer	Copper Alloys	Air (Ext)	Loss of Material	One-Time Inspection Program			F	VIII.I-2	4-32	D, 3001
			Oil (Ext)	Heat Transfer Degradation	One-Time Inspection Program	VII.G.7-b	3.3.1-06	H	VII.J-6	3-80	D, 3001
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.G.7-b	3.3.1-06	301, H	VII.J-6	3-80	D, 3001
				Loss of Material	One-Time Inspection Program	VII.G.7-b	3.3.1-06	D			

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	A			
				Heat Transfer Degradation	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	396, A			
						VII.C1.3-b	3.3.1-17	396, A			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C1.3-a	3.3.1-29	301, B			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	396, A			
Heat Exchangers	Heat Transfer	Copper Alloys	Treated Water (Ext)	Heat Transfer Degradation	Closed Cycle Cooling Water Program	VII.H2.1-a	3.3.1-15	H	VII.C1-4	3-60	E
				Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	B			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C1.3-a	3.3.1-29	301, B			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	B			

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C1.3-a	3.3.1-29	301, B			
Heaters, Electric	Fluid Pressure Boundary	Carbon Steel	Oil (Int)	Loss of Material	One-Time Inspection Program	VII.G.7-b	3.3.1-06	D			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.H2.1-b	3.3.1-17	380, C			
				Loss of Material	Open Cycle Cooling Water Program	VII.H2.1-b	3.3.1-17	C			
		Stainless Steel	Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	D			
Muffler	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.H2.3-a	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Instrument Valve Assemblies & Tubing	Fluid Pressure Boundary	Bronze	Air (Int)	Cracking	One-Time Inspection Program			J	VIII.I-2	4-32	D, 3001
				Loss of Material	One-Time Inspection Program			J	VIII.I-2	4-32	D, 3001
				Loss of Material - Selective Leaching	One-Time Inspection Program			J	VIII.I-2	4-32	D, 3001
		Carbon Steel	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H2.5-a	3.3.1-07	D			
					One-Time Inspection Program	VII.G.7-b	3.3.1-06	D			
						VII.H2.5-a	3.3.1-07	D			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
		Stainless Steel	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program			F	VII.H2-16	3-54	B

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					One-Time Inspection Program			F	VII.H2-16	3-54	B, 3001
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program			F	VII.C2-9	3-39	B
Motors	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.H2.4-a	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
Pipe & Fittings	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.H2.2-a	3.3.1-05	A			
						VII.H2.3-a	3.3.1-05	A			
						VII.H2.4-a	3.3.1-05	A			
			Atmosphere/ Weather (Ext)	Loss of Material	System Monitoring Program	VII.H1.1-a	3.3.1-05	A			

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H2.5-a	3.3.1-07	D			
					One-Time Inspection Program	VII.H2.5-a	3.3.1-07	D			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.H2.1-a	3.3.1-15	B			
		Copper Alloys	Air (Int)	Cracking	One-Time Inspection Program			F	VIII.I-2	4-32	D, 3001
				Loss of Material	One-Time Inspection Program			F	VIII.I-2	4-32	D, 3001
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program			F	VII.H2-8	3-38	A
		Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program			F	VII.J-17	3-76	B, 3001

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Pumps	Fluid Pressure Boundary	Carbon Steel	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.G.8-a	3.3.1-22	B			
					Fire Protection Program	VII.G.8-a	3.3.1-22	B			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
		Cast Iron	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H2.5-a	3.3.1-07	399, D			
					One-Time Inspection Program			J	VII.H2-25	3-20	D
				Loss of Material - Selective Leaching	One-Time Inspection Program			J	VII.C1-9	3-67	B, 3003
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	399, A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.3-a	3.3.1-15	B			

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C2.3-a	3.3.1-29	301, B			
Traps (Steam)	Fluid Pressure Boundary	Cast Iron	Air (Int)	Loss of Material	One-Time Inspection Program	VII.H2.2-a	3.3.1-05	399, A			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.H2.2-a	3.3.1-05	399, H	VII.C2-8	3-67	B, 3001
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.2-b	3.3.1-24	399, A			
Valves & Dampers	Fluid Pressure Boundary	Brass	Air (Int)	Cracking	One-Time Inspection Program			F	VIII.I-2	4-32	D, 3001
				Loss of Material	One-Time Inspection Program			F	VIII.I-2	4-32	D, 3001
				Loss of Material - Selective Leaching	One-Time Inspection Program			F	VIII.I-2	4-32	D, 3001
			Oil (Int)	Cracking	Diesel Fuel Monitoring and Storage Program			F	VII.H1-3	3-26	A, 3001, 3008

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					One-Time Inspection Program			F	VII.H1-3	3-26	B, 3001, 3008
				Loss of Material	Diesel Fuel Monitoring and Storage Program			F	VII.H2-9	3-26	A
					One-Time Inspection Program			F	VII.H2-9	3-26	B
Valves & Dampers	Fluid Pressure Boundary	Bronze	Air (Int)	Cracking	One-Time Inspection Program			F	VIII.I-2	4-32	D, 3001
				Loss of Material	One-Time Inspection Program			F	VIII.I-2	4-32	D, 3001
			Oil (Int)	Cracking	Diesel Fuel Monitoring and Storage Program			F	VII.H1-3	3-26	A, 3001, 3008
					One-Time Inspection Program			F	VII.H1-3	3-26	A, 3001, 3008
				Loss of Material	Diesel Fuel Monitoring and Storage Program			F	VII.H2-9	3-26	A

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					One-Time Inspection Program			F	VII.H2-9	3-26	B
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program			F	VII.H2-8	3-38	B
		Carbon Steel	Air (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program			G	VII.H2-21	3-16	E
					One-Time Inspection Program	VII.H2.2-a	3.3.1-05	B			
						VIII.H2.2-a	3.4.1-05	A			
			Atmosphere/ Weather (Ext)	Loss of Material	System Monitoring Program	VII.H1.2-a	3.3.1-05	A			
Valves & Dampers	Fluid Pressure Boundary	Carbon Steel	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H2.5-a	3.3.1-07	D			

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					One-Time Inspection Program	VII.H2.5-a	3.3.1-07	D			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.H2.1-a	3.3.1-15	D			
		Copper Alloys	Oil (Int)	Cracking	Diesel Fuel Monitoring and Storage Program			F	VII.H1-3	3-26	A, 3001
					Fire Protection Program			F	VII.H1-3	3-26	E, 3001, 3008
				Loss of Material	Diesel Fuel Monitoring and Storage Program			F	VII.H1-3	3-26	E, 3001, 3008
					Fire Protection Program			F	VII.H1-3	3-26	E, 3001, 3008
		Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program			F	VII.J-17	3-76	B, 3001

Table 3.3.2-6 Auxiliary Systems- Emergency Power System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program			F	VII.H2-16	3-54	B
					One-Time Inspection Program			F	VII.H2-16	3-54	B, 3001

Table 3.3.2-7 Auxiliary Systems- Fire Protection System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulators	Fluid Pressure Boundary	Stainless Steel	Oil (Int)	Loss of Material	One-Time Inspection Program			371, 372, F	VII.G-15	3-54	D
Fasteners	Fluid Pressure Boundary	Carbon Steel	Atmosphere/ Weather (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	347, A			
				Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, E			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
				Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, I	VII.I-5	3-35	A, 3001, 3004
			Raw Water (Ext)	Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	348, D			
				Loss of Preload	Bolting Integrity Program			324, J	VII.I-5	3-35	A, 3001, 3004

Table 3.3.2-7 Auxiliary Systems- Fire Protection System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Soil (Ext)	Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	336, 349, D			
				Loss of Preload	Bolting Integrity Program			324, J	VII.I-5	3-35	A, 3001, 3004
		Stainless Steel	Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	VII.I-5	3-35	A, 3001, 3004
Filters/Strainers	Filtration	Carbon Steel	Raw Water (Ext)	Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	B			
			Raw Water (Int)	Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	B			
	Fluid Pressure Boundary	Bronze	Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-b	3.3.1-21	B			
				Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	370, B			
		Cast Iron	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program			335, G	VII.J-23	3-77	C, 3005
			Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-b	3.3.1-21	B			

Table 3.3.2-7 Auxiliary Systems- Fire Protection System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	338, 378, 379, B			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.G.6-b	3.3.1-21	338, H	VII.C1-9	3-67	C
Pipe & Fittings	Fluid Pressure Boundary	Bare Copper	Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-b	3.3.1-21	D			
				Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	D			
		Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	385, A			
			Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-a	3.3.1-21	B			
				Loss of Material	Fire Protection Program	VII.G.6-a	3.3.1-21	B			
			Soil (Ext)	Loss of Material	Fire Protection Program	VII.G.6-a	3.3.1-21	334, 350, B			

Table 3.3.2-7 Auxiliary Systems- Fire Protection System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Pipe & Fittings	Fluid Pressure Boundary	Cast Iron	Raw Water (Ext)	Loss of Material	Fire Protection Program	VII.G.6-a	3.3.1-21	351, 352, B			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.G.6-a	3.3.1-21	352, H	VII.C1-9	3-67	A
			Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-a	3.3.1-21	B			
				Loss of Material	Fire Protection Program	VII.G.6-a	3.3.1-21	351, 352, B			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.G.6-a	3.3.1-21	352, H	VII.C1-9	3-67	A
		Copper Alloys	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program			353, F	VII.J-7	3-81	A
			Oil (Int)	Loss of Material	One-Time Inspection Program	VII.G.7-b	3.3.1-06	373, 374, B			
		Stainless Steel	Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-a	3.3.1-21	B			
				Loss of Material	Fire Protection Program	VII.G.6-a	3.3.1-21	B			

Table 3.3.2-7 Auxiliary Systems- Fire Protection System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Pumps	Fluid Pressure Boundary	Carbon Steel	Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-b	3.3.1-21	B			
				Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	339, B			
Pumps	Fluid Pressure Boundary	Cast Iron	Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Ext)	Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	340, B			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.G.6-b	3.3.1-21	340, H	VII.C1-9	3-67	C
			Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-b	3.3.1-21	B			

Table 3.3.2-7 Auxiliary Systems- Fire Protection System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	340, B			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.G.6-b	3.3.1-21	340, H	VII.C1-9	3-67	C
Sprinkler Heads	Fluid Pressure Boundary Spray Pattern	Brass	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			346, F	VII.J-7	3-81	C
			Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-b	3.3.1-21	376, 377, H	VII.G-9	3-51	C
				Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	375, B			
Valves & Dampers	Fluid Pressure Boundary	Brass	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.J-7	3-81	C
					System Monitoring Program			357, 383, F	VII.G-9	3-51	C
			Raw Water (Int)	Buildup of Deposit	Fire Protection Program			F	VII.C1-7	3-57	E

Table 3.3.2-7 Auxiliary Systems- Fire Protection System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material	Fire Protection Program			341, F	VII.C1-7	3-57	E
		Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-b	3.3.1-21	B			
				Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	342, B			
Valves & Dampers	Fluid Pressure Boundary	Cast Iron	Air (Int)	Loss of Material	Fire Protection Program			G	VII.J-23	3-77	A, 3005
			Atmosphere/ Weather (Ext)	Loss of Material	Fire Protection Program			F	VII.J-23	3-77	A, 3005
					System Monitoring Program			337, F	VII.J-23	3-77	A, 3005
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.I-9	3-72	A
					System Monitoring Program			384, F	VII.J-23	3-77	A, 3005

Table 3.3.2-7 Auxiliary Systems- Fire Protection System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-b	3.3.1-21	B			
				Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	343, 344, B			
					One-Time Inspection Program	VII.G.6-b	3.3.1-21	344, H	VII.C1-9	3-67	C
			Soil (Ext)	Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	358, 359, B			
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.G.6-b	3.3.1-21	359, 384, H	VII.C1-9	3-67	C
		Stainless Steel	Raw Water (Int)	Buildup of Deposit	Fire Protection Program	VII.G.6-b	3.3.1-21	H	VII.G-17	3-52	B
				Loss of Material	Fire Protection Program	VII.G.6-b	3.3.1-21	346, B			

Table 3.3.2-8 Auxiliary Systems - Fuel Oil System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulators	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program			319, G	VII.H2-21	3-16	E
			Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H1.4-a	3.3.1-07	305, B			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.H1.4-a	3.3.1-23	310, A			
Fasteners	Fluid Pressure Boundary	Low-Alloy Steel	Plant Indoor Air (Ext)	Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	A			
				Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, A			
Filters/Strainers	Fluid Pressure Boundary	Carbon Steel	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H1.4-a	3.3.1-07	D			
					One-Time Inspection Program	VII.H1.4-a	3.3.1-07	D			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-8 Auxiliary Systems - Fuel Oil System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Indicators/ Recorders	Fluid Pressure Boundary	Carbon Steel	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H1.4-a	3.3.1-07	D			
					One-Time Inspection Program	VII.H1.4-a	3.3.1-07	D			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	C			
Pipe & Fittings	Fire Barrier	Carbon Steel	Air (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program			307, 319, G	VII.H2-21	3-16	E
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.H1.1-b	3.3.1-18	A			
Pipe & Fittings	Flow Restriction	Carbon Steel	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H1.4-a	3.3.1-07	D			
					One-Time Inspection Program	VII.H1.4-a	3.3.1-07	D			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.H1.1-b	3.3.1-18	A			

Table 3.3.2-8 Auxiliary Systems - Fuel Oil System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program			307, 319, G	VII.H2-21	3-16	E
			Atmosphere/ Weather (Ext)	Loss of Material	System Monitoring Program	VII.H1.1-a	3.3.1-05	A			
			Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H1.4-a	3.3.1-07	D			
					Fire Protection Program	VII.G.8-a	3.3.1-22	B			
					One-Time Inspection Program	VII.H1.4-a	3.3.1-07	D			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.H1.1-b	3.3.1-18	A			
			Raw Water (Ext)	Loss of Material	Buried Services Corrosion Monitoring Program	VII.H1.1-b	3.3.1-18	A			
		Copper Alloys	Oil (Int)	Cracking	Diesel Fuel Monitoring and Storage Program			317, F	VII.H1-3	3-26	D, 3009

Table 3.3.2-8 Auxiliary Systems - Fuel Oil System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					One-Time Inspection Program			317, F	VII.H1-3	3-26	D, 3009
Pipe & Fittings	Fluid Pressure Boundary	Copper Alloys	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program			317, F	VII.H1-3	3-26	B
					One-Time Inspection Program			317, F	VII.H1-3	3-26	B
		Stainless Steel	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program			317, F	VII.H1-6	3-54	B
					Fire Protection Program			317, F	VII.H1-6	3-54	B, 3001
					One-Time Inspection Program			317, F	VII.H1-6	3-54	B, 3001
Pumps	Fluid Pressure Boundary	Cast Iron	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H1.4-b	3.3.1-23	D			
					One-Time Inspection Program	VII.H1.4-b	3.3.1-23	D			

Table 3.3.2-8 Auxiliary Systems - Fuel Oil System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.H1.4-b	3.3.1-23	301, D			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.H1.4-b	3.3.1-23	A			
Valves & Dampers	Fluid Pressure Boundary	Brass	Oil (Int)	Cracking	Diesel Fuel Monitoring and Storage Program			317, F	VII.H1-3	3-26	B, 3001, 3009
					One-Time Inspection Program			317, F	VII.H1-3	3-26	B, 3001, 3009
				Loss of Material	Diesel Fuel Monitoring and Storage Program			317, F	VII.H1-3	3-26	B
					One-Time Inspection Program			317, F	VII.H1-3	3-26	B
Valves & Dampers	Fluid Pressure Boundary	Bronze	Oil (Int)	Cracking	Diesel Fuel Monitoring and Storage Program			317, F	VII.H1-3	3-26	B, 3001, 3009
					One-Time Inspection Program			317, F	VII.H1-3	3-26	B, 3001, 3009

Table 3.3.2-8 Auxiliary Systems - Fuel Oil System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material	Diesel Fuel Monitoring and Storage Program			317, F	VII.H1-3	3-26	B
					One-Time Inspection Program			317, F	VII.H1-3	3-26	B
		Carbon Steel	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program	VII.H1.4-a	3.3.1-07	D			
					Fire Protection Program	VII.G.8-a	3.3.1-22	D			
					One-Time Inspection Program	VII.H1.4-a	3.3.1-07	D			
			Plant Indoor Air (Ext)	Loss of Material	Fire Protection Program	VII.I.1-b	3.3.1-05	B			
					System Monitoring Program	VII.H1.1-b	3.3.1-18	A			
		Stainless Steel	Oil (Int)	Loss of Material	Diesel Fuel Monitoring and Storage Program			317, F	VII.H1-6	3-54	B
					One-Time Inspection Program			317, F	VII.H1-6	3-54	B, 3001

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Blowers Fans Compressor Vacuum	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1-05	391, B			
						VII.F2.1-a	3.3.1-05	391, B			
						VII.F4.1-a	3.3.1-05	391, B			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
		Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1-05	391, B			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	386, A			
Ductwork	Filtration Fluid Pressure Boundary	Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1-05	386, B			

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
						VII.F2.1-a	3.3.1-05	386, B			
						VII.F4.1-a	3.3.1-05	386, B			
Filters/Strainers	Filtration Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.4-a	3.3.1-05	B			
						VII.F2.4-a	3.3.1-05	B			
			Oil (Int)	Loss of Material	One-Time Inspection Program	VII.G.7-b	3.3.1-06	392, D			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
		Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F2.4-a	3.3.1-05	386, B			

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	386, A			
Heat Exchangers	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	380, A			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	C			
Heat Exchangers	Fluid Pressure Boundary	Carbon Steel	Steam (Int)	Loss of Material	One-Time Inspection Program			393, G	VII.E4-19	3-15	B
	Fluid Pressure Boundary Heat Transfer	Copper Alloys	Air (Ext)	Heat Transfer Degradation	One-Time Inspection Program	VII.F1.2-a	3.3.1-05	387, H	VII.J-7	3-81	A, 3001

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
						VII.F2.2-a	3.3.1-05	387, H	VII.J-7	3-81	A, 3001
				Loss of Material	One-Time Inspection Program	VII.F1.2-a	3.3.1-05	323, B			
						VII.F2.2-a	3.3.1-05	323, B			
			Gas (Ext)	Loss of Material	One-Time Inspection Program			323, 388, G	VII.J-5	3-79	A, 3001
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	C			
				Heat Transfer Degradation	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	316, 387, C			
				Loss of Material - Erosion	One-Time Inspection Program	VII.C1.3-a	3.3.1-17	394, H	VII.C1.3	3-57	E
				Loss of Material - Selective Leaching	One-Time Inspection Program	VII.C1.3-a	3.3.1-29	301, D			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.3-a	3.3.1-17	394, C			

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
	Fluid Pressure Boundary	Copper Alloys	Steam (Int)	Loss of Material	One-Time Inspection Program			393, G	VII.K-1	3-23	A, 3001
Heaters, Electric	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1-05	391, B			
						VII.F2.1-a	3.3.1-05	391, B			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
		Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1-05	391, B			
Muffler (CRHVAC Refrig. condensing units)	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Elastomers in Flex. Connections and Seals inside/outside of Containment	Fluid Pressure Boundary	Elastomers	Air (Int)	Change in Mat. Properties	One-Time Inspection Program	VII.F1.1-b	3.3.1-02	389, B			
						VII.F1.4-b	3.3.1-02	389, B			
						VII.F2.1-b	3.3.1-02	389, B			
						VII.F2.4-b	3.3.1-02	389, B			
						VII.F3.1-b	3.3.1-02	389, B			
						VII.F3.4-b	3.3.1-02	389, B			
						VII.F4.1-b	3.3.1-02	389, B			
				Cracking	One-Time Inspection Program	VII.F1.1-b	3.3.1-02	389, B			
						VII.F1.4-b	3.3.1-02	389, B			

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
						VII.F2.1-b	3.3.1-02	389, B			
						VII.F2.4-b	3.3.1-02	389, B			
						VII.F3.1-b	3.3.1-02	389, B			
						VII.F3.4-b	3.3.1-02	389, B			
						VII.F4.1-b	3.3.1-02	389, B			
			Containment Air (Ext)	Change in Mat. Properties	System Monitoring Program	VII.F3.1-b	3.3.1-02	389, A			
						VII.F3.4-b	3.3.1-02	389, A			
				Cracking	System Monitoring Program	VII.F3.1-b	3.3.1-02	389, A			
						VII.F3.4-b	3.3.1-02	389, A			

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Elastomers in Flex. Connections and Seals inside/outside of Containment	Fluid Pressure Boundary	Elastomers	Plant Indoor Air (Ext)	Change in Mat. Properties	System Monitoring Program	VII.F1.1-b	3.3.1-02	389, A			
						VII.F1.4-b	3.3.1-02	389, A			
						VII.F2.1-b	3.3.1-02	389, A			
						VII.F2.4-b	3.3.1-02	389, A			
				Cracking	System Monitoring Program	VII.F1.1-b	3.3.1-02	389, A			
						VII.F1.4-b	3.3.1-02	389, A			
						VII.F2.1-b	3.3.1-02	389, A			
						VII.F2.4-b	3.3.1-02	389, A			
CRHVAC Duct Silencer	Fluid Pressure Boundary	Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1-05	D			

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Fasteners	Fluid Pressure Boundary	Low-Alloy Steel	Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, C			
				Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, C			
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
HVAC Dampers	Fluid Pressure Boundary	Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1-05	391, B			
						VII.F2.1-a	3.3.1-05	391, B			
						VII.F4.1-a	3.3.1-05	391, B			
Pipe & Fittings	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1-05	D			
						VII.F2.1-a	3.3.1-05	D			
						VII.F4.1-a	3.3.1-05	D			

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program			395, G	VII.C3-10	3-62	E
			Steam (Int)	Loss of Material	One-Time Inspection Program			393, G	VIII.J-5	4-3	E
		Copper Alloys	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.2-a	3.3.1-05	D			
						VII.F2.2-a	3.3.1-05	D			
						VII.F4.2-a	3.3.1-05	D			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			317, F			

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
		Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program			308, F	VII.J-7	3-81	A, 3001
Pipe & Fittings	Containment Isolation	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A	VII.J-17	3-76	A, 3001
					System Monitoring Program	VII.C.1-a	3.3.1-05	A			
Traps (Steam)	Fluid Pressure Boundary	Cast Iron	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	390, A			
			Steam (Int)	Loss of Material	One-Time Inspection Program			390, 393, G	VII.A3-7	3-62	B
			Raw Water (Int)	Loss of Material	One-Time Inspection Program			390, 393, G	VII.C1-9	3-67	B
Valves & Dampers	Fluid Pressure Boundary	Bronze	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.2-a	3.3.1-05	D			
						VII.F2.2-a	3.3.1-05	D			

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
						VII.F4.2-a	3.3.1-05	D			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			317, F	VII.J-7	3-81	A, 3001
			Steam (Int)	Loss of Material	One-Time Inspection Program			393, G	VII.K-1	3-23	E
		Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1-05	D			
						VII.F2.1-a	3.3.1-05	D			
						VII.F4.1-a	3.3.1-05	D			
Valves & Dampers	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program			395, G	VII.C3-10	3-62	E
			Steam	Loss of Material	One-Time Inspection Program			G			
					System Monitoring Program			G			
		Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1-05	391, B			
						VII.F2.1-a	3.3.1-05	391, B			
						VII.F4.1-a	3.3.1-05	391, B			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	386, A			
		Stainless Steel	Air (Int)	Loss of Material	One-Time Inspection Program			308, F	VII.J-17	3-76	A, 3001

Table 3.3.2-9 Auxiliary Systems- Heating, Ventilation, and Air Conditioning System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Raw Water (Int)	Loss of Material	One-Time Inspection Program			308, F	VII.H2-18	3-59	E

Table 3.3.2-10 Auxiliary Systems - Miscellaneous Gas System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulators	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
Filters/Strainers	Fluid Pressure Boundary	Galvanized	Air (Int)	Loss of Material	One-Time Inspection Program	VII.D.5-a	3.3.1-19	E			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
Misc. Mechanical (fasteners, manifold, monitor)	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program	VII.D.3-a	3.3.1-19	324, E			
				Loss of Material	Bolting Integrity Program	VII.D.1-a	3.3.1-19	E			
						VII.D.2-a	3.3.1-19	E			

Table 3.3.2-10 Auxiliary Systems - Miscellaneous Gas System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
						VII.D.3-a	3.3.1-19	E			
						VII.D.5-a	3.3.1-19	E			
						VII.D.6-a	3.3.1-19	E			
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
		Copper Alloys	Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	VII.I-5	3-35	A, 3001, 3004
				Loss of Material	Bolting Integrity Program			F	VII.I-7	3-12	A, 3001, 3004
		Stainless Steel	Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	VII.I-5	3-35	A, 3001, 3004

Table 3.3.2-10 Auxiliary Systems - Miscellaneous Gas System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Pipe & Fittings	Fluid Pressure Boundary	Carbon Steel	Atmosphere/ Weather (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Soil (Ext)	Loss of Material	Buried Services Corrosion Monitoring Program	VII.C1.1-b	3.3.1-18	A			
		Copper Alloys	Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.J-7	3-81	A, 3001
Tanks	Fluid Pressure Boundary	Carbon Steel	Atmosphere/ Weather (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-10 Auxiliary Systems - Miscellaneous Gas System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Valves & Dampers	Fluid Pressure Boundary	Brass	Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.J-7	3-81	A. 3001
		Bronze	Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			F	VII.J-7	3-81	A. 3001
		Carbon Steel	Atmosphere/ Weather (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
Valves & Dampers	Fluid Pressure Boundary	Low-Alloy Steel	Containment Air (Ext) Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			

Table 3.3.2-10 Auxiliary Systems - Miscellaneous Gas System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-11 Auxiliary Systems- Radwaste System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulators	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program			331, J	VII.F2-2	3-16	E
			Atmosphere / Weather (Ext)	Loss of Material	System Monitoring Program	VII.H1.4-b	3.3.1-23	331, E			
	Flood Protection Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C3.1-a	3.3.1-29	331, E			
		Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	331, 381, E			
Demineralizer	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	331, 381, E			

Table 3.3.2-11 Auxiliary Systems- Radwaste System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Filters/Strainers	Fluid Pressure Boundary	Stainless Steel	Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.6-a	3.3.1-17	331, E			
			Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	331, 381, E			
Heat Exchangers	Fluid Pressure Boundary	Bronze	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			308, F	VII.I-11	3-72	A
			Treated Water (Ext)	Loss of Material	One-Time Inspection Program	VII.F2.2-a	3.3.1-05	331, 368, 381, E			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program			331, 368, J	VII.A4-7	3-38	D
					One-Time Inspection Program	VII.F2.2-a	3.3.1-05	331, 368, 381, E			
		Carbon Steel	Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-03	A			

Table 3.3.2-11 Auxiliary Systems- Radwaste System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Steam (Int)	Loss of Material	One-Time Inspection Program			331, J	VIII.J-5	4-3	E
		Copper Alloys	Treated Water (Ext)	Loss of Material	One-Time Inspection Program	VII.F2.2-a	3.3.1-05	331, 381, E			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program			331, 368, J	VII.A3-5	3-38	D
					One-Time Inspection Program	VII.F2.2-a	3.3.1-05	331, 381, E			
		Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	331, 381, E			
Fasteners	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	A			
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
Fasteners	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	B			

Table 3.3.2-11 Auxiliary Systems- Radwaste System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
				Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, A			
		Stainless Steel	Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	IV.A2-7	1-44	C, 3001, 3004
Pipe & Fittings	Flood Protection Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	331, 381, E			
	Fluid Pressure Boundary	Carbon Steel	Gas (Int)	Loss of Material	One-Time Inspection Program			331, 381, G	VII.J-26	3-79	B, 3001
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-11 Auxiliary Systems- Radwaste System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C3.1-a	3.3.1-29	331, E			
		Cast Iron	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	399, A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	399, A			
			Treated Water (Int)	Loss of Material	One-Time Inspection Program			331, 381, F	VII.F2-16	3-67	B
Pumps	Flood Protection Fluid Pressure Boundary	Bronze	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program			331, G	VII.I-11	3-72	A
			Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.F2.2-a	3.3.1-05	331, 381, E			
		Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	331, 381, E			

Table 3.3.2-11 Auxiliary Systems- Radwaste System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Ext)	Loss of Material	One-Time Inspection Program			331, I	VII.C1-3	3-63	E
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.5-a	3.3.1-17	331, E			
		Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	331, 381, E			
Valves & Dampers	Flood Protection Fluid Pressure Boundary	Cast Austenitic SS	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	331, 381,E			
		Cast Iron	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1-05	331, E			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	399, A			

Table 3.3.2-11 Auxiliary Systems- Radwaste System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					System Monitoring Program	VII.I.1-b	3.3.1-05	399, A			
	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1-05	331, 369, E			
			Gas (Int)	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1-05	331, E			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.2-a	3.3.1-17	331, E			
		Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	331, 381, E			

Table 3.3.2-12 Auxiliary Systems- Service Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulator	Fluid Pressure Boundary	Stainless Steel	Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.1-a	3.3.1-17	E			
Fasteners in Containment	Fluid Pressure Boundary	Low-Alloy Steel	Containment Air (Ext)	Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	A			
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
				Loss of Preload	Bolting Integrity Program			324, F	VII.I-5	3-35	A, 3001, 3004
Fasteners Not in Containment	Fluid Pressure Boundary	Low-Alloy Steel	Plant Indoor Air (Ext)	Loss of Material	Bolting Integrity Program	VII.I.1-b	3.3.1-05	A, 300			
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
				Loss of Preload	Bolting Integrity Program			324, F	VII.I-5	3-35	A, 3001, 3004
Filters/Strainers	Filtration	Stainless Steel	Raw Water (Ext)	Loss of Material	Open Cycle Cooling Water Program	VII.C1.6-a	3.3.1-17	A			

Table 3.3.2-12 Auxiliary Systems- Service Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
	Fluid Pressure Boundary	Cast Iron	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.6-a	3.3.1-17	A, 399			
				Loss of Material	One-Time Inspection Program	VII.C1.5-a	3.3.1-17	D, 301			
					Open Cycle Cooling Water Program	VII.C1.6-a	3.3.1-17	A, 399			
		Stainless Steel	Raw Water (Ext)	Loss of Material	Open Cycle Cooling Water Program	VII.C1.6-a	3.3.1-17	A			
Flex Connections & Instrument Valve Assemblies	Fluid Pressure Boundary	Stainless Steel	Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.4-a	3.3.1-17	C			

Table 3.3.2-12 Auxiliary Systems- Service Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Heat Exchanger	Fluid Pressure Boundary	Carbon Steel	Air/Gas (Int)	Loss of Material	One-Time Inspection Program			G	VII.F1-1	3-16	B
			Oil (Int)	Loss of Material	One-Time Inspection Program			G	VII.G-24	3-13	E
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.1-a	3.3.1-17	E			
		Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.I.3-a	3.3.1-17	E			
Pipe & Fittings	Flow Restriction	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A			
						VII.C1.2-a	3.3.1-17	A			
						VII.C3.1-a	3.3.1-29	A			

Table 3.3.2-12 Auxiliary Systems- Service Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A, 302			
						VII.C3.1-a	3.3.1-29	A, 302			
	Fluid Pressure Boundary	Bronze	Raw Water (Int	Loss of Material	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	C			
					One-Time Inspection Program	VII.C1.1-a	3.3.1-17	D			
		Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Soil (Ext)	Loss of Material	Buried Services Corrosion Monitoring Program	VII.C1.1-b	3.3.1-18	A			
Pipe & Fittings	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			

Table 3.3.2-12 Auxiliary Systems- Service Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A			
						VII.C1.2-a	3.3.1-17	A			
						VII.C3.1-a	3.3.1-29	A			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A, 302			
						VII.C3.1-a	3.3.1-29	A, 302			
				Loss of Material - Erosion	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A, 302			
						VII.C3.1-a	3.3.1-29	A, 302			
		Cast Iron	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A, 399			

Table 3.3.2-12 Auxiliary Systems- Service Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A			
				Loss of Material	One-Time Inspection Program	VII.C1.6-a	3.3.1-17	B, 399			
					Open Cycle Cooling Water Program	VII.C1.6-a	3.3.1-17	A, 399			
Pipe & Fittings	Fluid Pressure Boundary	Copper Alloys	Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A			
		Stainless Steel	Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A, 302			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A			
				Loss of Material - Erosion	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	A,			

Table 3.3.2-12 Auxiliary Systems- Service Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
		Rubber	Plant Indoor Air (Ext)	Cracking	System Monitoring Program			F	VII.G-1	3-46	E
Pumps	Fluid Pressure Boundary	Cast Iron	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A, 399			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.5-a	3.3.1-17	A, 399			
						VII.C3.3-a	3.3.1-17	A, 399			
				Loss of Material	One-Time Inspection Program	VII.C1.5-a	3.3.1-29	C, 301			
						VII.C3.3-a	3.3.1-17	C, 301			
					Open Cycle Cooling Water Program	VII.C1.5-a	3.3.1-17	A			
Traveling Screen spray Nozzles	Spray Pattern	Aluminum Bronze	Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.3-b	3.3.1-17	C			
				Loss of Material	One-Time Inspection Program	VII.C1.1-a	3.3.1-29	D, 301			

Table 3.3.2-12 Auxiliary Systems- Service Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	C, 302			
Valves & Dampers	Fluid Pressure Boundary	Brass	Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A			
		Bronze	Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A			
		Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			

Table 3.3.2-12 Auxiliary Systems- Service Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.1-a	3.3.1-17	C			
						VII.C3.2-a	3.3.1-29	C			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A, 302			
						VII.C3.2-a	3.3.1-29	A, 302			
		Cast Iron	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A, 399			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A, 399			
Valves & Dampers	Fluid Pressure Boundary	Cast Iron	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A, 399			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A, 399			

Table 3.3.2-12 Auxiliary Systems- Service Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A, 399			
				Loss of Material	One-Time Inspection Program	VII.C1.2-a	3.3.1-17	B, 301, 399			
					Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A, 302, 399			
				Loss of Material - Erosion	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A, 302, 399			
		Copper Alloys	Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A			
		Stainless Steel	Raw Water (Int)	Buildup of Deposit	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A			
				Loss of Material	Open Cycle Cooling Water Program	VII.C1.2-a	3.3.1-17	A			

Table 3.3.2-13 Auxiliary Systems - Shield Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulators	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	C			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	C			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.4-a	3.3.1-15	327, B			
Fasteners	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	VII.I-5	3-35	A, 3001, 3004
				Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, C			
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
			Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	VII.I-5	3-35	A, 3001, 3004
				Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, C			

Table 3.3.2-13 Auxiliary Systems - Shield Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
Filters/Strainers	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.4-a	3.3.1-15	327, D			
Pipe & Fittings	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-13 Auxiliary Systems - Shield Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.1-a	3.3.1-15	327, B			
Valves & Dampers	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	327, B			

Table 3.3.2-14 Auxiliary Systems- Spent Fuel Pool Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulators	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	329, E			
					Water Chemistry Program	VII.C2.2-a	3.3.1-15	329, E			
Demineralizers	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	329, E			
					Water Chemistry Program	VII.C2.2-a	3.3.1-15	329, E			
Filters/Strainers	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	329, E			
					Water Chemistry Program	VII.C2.2-a	3.3.1-15	329, E			
Fasteners	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, C			
				Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, C			

Table 3.3.2-14 Auxiliary Systems- Spent Fuel Pool Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					Boric Acid Corrosion Program	VII.A3.1-a	3.3.1-14	A			
						VII.A3.2-c	3.3.1-14	A			
						VII.A3.3-c	3.3.1-14	A			
						VII.A3.4-b	3.3.1-14	A			
						VII.A3.5-b	3.3.1-14	A			
						VII.A3.6-a	3.3.1-14	A			
		Stainless Steel	Plant Indoor Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	IV.A2-7	1-44	C, 3001, 3004
			Containment Air (Ext)	Loss of Preload	Bolting Integrity Program			324, F	IV.A2-7	1-44	C, 3001, 3004
Pipe & Fittings	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	329, E			
					Water Chemistry Program	VII.C2.2-a	3.3.1-15	329, E			

Table 3.3.2-14 Auxiliary Systems- Spent Fuel Pool Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Pumps	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	329, E			
					Water Chemistry Program	VII.C2.2-a	3.3.1-15	329, E			
SFP Heat Exchanger Shell and Channel Head	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.A3.4-b	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.A3.4-a	3.3.1-15	320, B			
SFP Heat Exchanger Shell and Channel Head	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	318, 322, 329, D			
					Water Chemistry Program	VII.C2.2-a	3.3.1-15	329, E			

Table 3.3.2-14 Auxiliary Systems- Spent Fuel Pool Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
SFP Heat Exchanger Tube and Tubesheet	Fluid Pressure Boundary	Carbon Steel	Treated Water (Ext)	Loss of Material	Closed Cycle Cooling Water Program	VII.A3.4-a	3.3.1-15	328, D			
SFP Heat Exchanger Tube and Tubesheet	Fluid Pressure Boundary Heat Transfer	Stainless Steel	Treated Water (Ext)	Heat Transfer Degradation	Closed Cycle Cooling Water Program			328, J	V.A-9	2-22	B
				Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	323, 328, D			
			Treated Water (Int)	Heat Transfer Degradation	Closed Cycle Cooling Water Program			328, J	V.A-9	2-22	B
					Water Chemistry Program			328, J	VII.A4-4	3-69	A
				Loss of Material	Closed Cycle Cooling Water Program	VII.C2.2-a	3.3.1-15	323, 328, D			
					Water Chemistry Program	VII.C2.2-a	3.3.1-15	E			
Valves & Dampers	Fluid Pressure Boundary	Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	E			

Table 3.3.2-14 Auxiliary Systems- Spent Fuel Pool Cooling System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					Water Chemistry Program	VII.C2.2-a	3.3.1-15	E			

Table 3.3.2-15 Auxiliary Systems - Waste Gas System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulator	Fluid Pressure Boundary	Carbon Steel	Gas (Int)	Loss of Material	One-Time Inspection Program			332, J	VII.J-26	3-79	B, 3001
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C3.1-a	3.3.1-29	332, E			
Fasteners	Fluid Pressure Boundary	Low-Alloy Steel	Containment Air (Ext)	Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	A			
					Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
			Plant Indoor Air (Ext)	Loss of Material	Bolting Integrity Program	VII.I.2-a	3.3.1-24	A			
				Loss of Preload	Bolting Integrity Program	VII.I.2-a	3.3.1-24	324, A			
Filter/Strainer	Fluid Pressure Boundary	Carbon Steel	Gas (Int)	Loss of Material	One-Time Inspection Program			332, J	VII.J-26	3-79	B, 3001

Table 3.3.2-15 Auxiliary Systems - Waste Gas System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
Pipe & Fittings	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Gas (Int)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C3.1-a	3.3.1-29	332, E			
Valves & Dampers	Fluid Pressure Boundary	Carbon Steel	Containment Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			

Table 3.3.2-15 Auxiliary Systems - Waste Gas System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Gas (Int)	Loss of Material	One-Time Inspection Program			332, G	VII.J-26	3-79	B, 3001
			Plant Indoor Air (Ext)	Loss of Material	Boric Acid Corrosion Program	VII.I.1-a	3.3.1-14	A			
					System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.2-a	3.3.1-17	332, E			

Table 3.3.2-16 Auxiliary Systems - Domestic Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulator	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program			J	VII.F1-7	3-16	B
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.1-a	3.3.1-17	E			
		Cast Iron	Air (Int)	Loss of Material	One-Time Inspection Program			J	VII.C1-9	3-67	D, 3010
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	One-Time Inspection Program			J	VII.F1-19	3-67	D
		Stainless Steel	Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.1-a	3.3.1-17	E			
Fasteners	Fluid Pressure Boundary	Low-Alloy Steel	Plant Indoor Air (Ext)	Loss of Material	Bolting Integrity Program	VII.I.1-b	3.3.1-05	A			

Table 3.3.2-16 Auxiliary Systems - Domestic Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Heat Exchanger	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program			J	VII.C1-3	3-63	E
			Steam (Int)	Loss of Material	One-Time Inspection Program			J	VIII.J-5	4-3	D
Pipe & Fittings	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.1-a	3.3.1-17	E			
		Copper Alloy	Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.1-a	3.3.1-17	E			
Pumps	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.5-a	3.3.1-17	E			

Table 3.3.2-16 Auxiliary Systems - Domestic Water System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Valves & Dampers	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.2-a	3.3.1-17	E			
		Copper Alloy	Raw Water (Int)	Loss of Material	One-Time Inspection Program	VII.C1.2-a	3.3.1-17	E			

Table 3.3.2-17 Auxiliary Systems - Chemical Addition System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Accumulator	Fluid Pressure Boundary	Carbon Steel	Air (Int)	Loss of Material	One-Time Inspection Program			G	VII.D-2	3-45	D
			Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2-4a	3.3.1-15	E			
		Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	E			
Fasteners	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
Pipe & Fittings	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2-4A	3.3.1-15	E			
		Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	E			

Table 3.3.2-17 Auxiliary Systems - Chemical Addition System - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG - 1801 Volume 2 Line Item	Table 1 Item	Notes	Rev 1 NUREG - 1801 Volume 2 Line Item	Rev 1 NUREG - 1801 Volume 1 Table Row (Table # - Row #)	Rev 1 NUREG - 1801 Notes
Pumps	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2-4A	3.3.1-15	E			
		Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	E			
Valves & Dampers	Fluid Pressure Boundary	Carbon Steel	Plant Indoor Air (Ext)	Loss of Material	System Monitoring Program	VII.I.1-b	3.3.1-05	A			
			Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2-4a	3.3.1-15	E			
		Stainless Steel	Treated Water (Int)	Loss of Material	One-Time Inspection Program	VII.C2.2-a	3.3.1-15	E			

Note 3001: This material and environment combination is shown in GALL as not having the specified AERM. For the purpose of precedent review, Palisades considered Notes A, B, C, or D to apply to those instances where we are managing items which GALL does not indicate need to be managed.

Note 3002: In instances where GALL indicates a plant specific program is to be further evaluated (FER), the precedent review Standard Note for GALL consistency was assigned in a manner consistent with the Palisades LRA 3.x.2 tables.

Note 3003: Potential of water pooling / separation and material is gray cast iron.

Note 3004: Loss of Preload is independent of a specific environment; e.g., air, raw water, or soil, but is affected by high temperature and high pressure. With the exception at the emergency diesel exhaust, all bolting temperature is substantially below the 650ºF threshold above which loss of preload may exist.

Note 3005: Cast Iron may be evaluated as Steel with the exception of selective leaching.

Note 3006: SOIL may be the environment for components buried in soil (below grade), and also the environment for components submerged in groundwater and damp soil. The aging effect of potential exposure to raw water is also evaluated.

Note 3007: Although the emergency power system stainless steel bolting is not subject to an environment of air with borated water leakage, Palisades conservatively evaluated the bolting to this more severe environment than plant indoor air, and credited the bolting integrity program to manage loss of preload.

Note 3008: Pipe spec has no record that the Copper Alloy / Brass valve body has >15% Zinc, nor does the Bronze valve body has >8% Aluminum.

Note 3009: See the McGuire/Catawba SER dated January 2003 Section 3.0.3.2.2, in which the staff concurred that Water Chemistry Program manages aging effects caused by loss of material, cracking, and fouling of components exposed to borated water, closed cycle cooling water, treated water or fuel oil environment. In accordance with the Palisades LRA; water chemistry is managed in the Closed Cycle Cooling Water Program, Section B2.1.6, fuel oil chemistry is managed in the Diesel Fuel Monitoring and Storage Program, B2.1.9. Therefore, the conclusion of this aging management evaluation is consistent with the cited SER.

Note 3010: Moist air was evaluated as the environment, which is more severe than air.