

**TABLE 3.5.2-1 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – PRIMARY CONTAINMENT**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Anchor / Embedment Embedded	C-2 C-7 C-10	Carbon Steel	Embedded/ Encased	None	None			J, 518
Bellows (Refueling)	C-8	Stainless Steel	Protected from Weather	None	None			J, 529
Cable Tray and Conduit	C-2 C-7 C-10	Galvanized Carbon Steel	Containment Air and Torus Air	None	None			J, 521
		Stainless Steel	Containment Air and Torus Air	None	None			J, 529
Concrete Above Grade	C-1 C-2 C-3 C-6 C-7 C-8 C-10	Reinforced Concrete	Protected from Weather	None	ASME Section XI, Subsection IWL Program	II.B2.2.1-a	3.5.1-07	A, 501, 512, 514
				None	ASME Section XI, Subsection IWL Program	II.B2.2.1-b	3.5.1-07	A, 501, 502, 514, 537
				None	ASME Section XI, Subsection IWL Program	II.B2.2.1-c	3.5.1-16	A, 501, 514, 523
				None	ASME Section XI, Subsection IWL Program	II.B2.2.1-d	3.5.1-07	A, 501, 514, 527, 537
				None	Structures Monitoring Program	II.B2.2.1-e	3.5.1-08	A, 501, 506, 514

**TABLE 3.5.2-1 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – PRIMARY CONTAINMENT**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes	
Concrete Above Grade (continued)	C-1	Reinforced Concrete	Protected from Weather (continued)	None	None	II.B2.2.1-f	3.5.1-09	I, 507	
	C-2			None	None	II.B2.2.1-g	3.5.1-10	I, 514, 536	
	C-3		Containment Air		None	ASME Section XI, Subsection IWL Program	II.B2.2.1-a	3.5.1-07	A, 501, 512, 514
	C-6				None	ASME Section XI, Subsection IWL Program	II.B2.2.1-b	3.5.1-07	A, 501, 502, 514, 537
	C-7				None	ASME Section XI, Subsection IWL Program	II.B2.2.1-c	3.5.1-16	A, 501, 514, 523
	C-8				None	ASME Section XI, Subsection IWL Program	II.B2.2.1-d	3.5.1-07	A, 501, 514, 527, 537
	C-10				None	None	II.B2.2.1-g	3.5.1-10	I, 514, 536
					None	Structures Monitoring Program	II.B2.2.1-e	3.5.1-08	A, 501, 506, 514
					None	Structures Monitoring Program	III.A4.1-a	3.5.1-20	A, 501, 510
					None	Structures Monitoring Program	III.A4.1-b	3.5.1-20	A, 501, 505
					None	None	III.A4.1-c	3.5.1-27	I, 513
					None	Structures Monitoring Program	III.A4.1-d	3.5.1-20	A, 501, 510

**TABLE 3.5.2-1 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – PRIMARY CONTAINMENT**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Above Grade (continued)	C-1	Reinforced Concrete	Containment Air	Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B1.1.4-a III.B1.2.3-a III.B1.3.3-a III.B2.2-a III.B5.2-a	3.5.1-29	A
	C-2							
	C-3							
	C-6							
	C-7							
Sacrificial Shield Wall	C-2	Carbon Steel	Containment Air	Loss of Material	Structures Monitoring Program	III.A4.2-a	3.5.1-20	C
	C-3							
	C-7							
	C-10							
Concrete Curbs	C-13	Reinforced Concrete	Containment Air	None	Structures Monitoring Program	III.A4.1-a	3.5.1-20	A, 501, 510
				None	Structures Monitoring Program	III.A4.1-b	3.5.1-20	A, 501, 505
				None	None	III.A4.1-c	3.5.1-27	I, 513
				None	Structures Monitoring Program	III.A4.1-d	3.5.1-20	A, 501, 510
Door	C-3	Carbon Steel	Containment Air	Loss of Material (Includes Wear)	Structures Monitoring Program			J
Downcomers	C-1	Carbon Steel	Torus Air	Loss of Material	ASME Section XI, Subsection IWE Program	II.B1.1.1-a	3.5.1-12	A, 514, 538
				Fatigue	TLAA	II.B1.1.1-c	3.5.1-13	A, 514, 543
			Treated Water	Loss of Material	ASME Section XI, Subsection IWE Program	II.B1.1.1-a	3.5.1-12	A, 514, 538

**TABLE 3.5.2-1 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – PRIMARY CONTAINMENT**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Drywell Head	C-1 C-3	Carbon Steel	Containment Air	Loss of Material	ASME Section XI Subsection IWE Program and 10 CFR Part 50, Appendix J Program	II.B1.1.1-a	3.5.1-12	A
Drywell Liner	C-1 C-2 C-7 C-10	Carbon Steel	Containment Air	Loss of Material	ASME Section XI Subsection IWE Program and 10 CFR Part 50, Appendix J Program	II.B1.1.1-a	3.5.1-12	A
Electrical Enclosures	C-2 C-3 C-7 C-10	Carbon Steel	Containment Air and Torus Air	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
		Galvanized Carbon Steel	Containment Air and Torus Air	None	None			F, 521
		Stainless Steel	Containment Air and Torus Air	None	None			F, 529
Electrical Support	C-2 C-7 C-10	Carbon Steel	Containment Air and Torus Air	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
		Galvanized Carbon Steel	Containment Air and Torus Air	None	None			F, 521
Equipment Support	C-2 C-7 C-10	Carbon Steel	Containment Air	Loss of Material	Structures Monitoring Program	III.B4.1-a	3.5.1-29	A

**TABLE 3.5.2-1 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – PRIMARY CONTAINMENT**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Floor Drains	C-8	Carbon Steel	Embedded/ Encased	None	None			J, 518
HVAC Support	C-7	Carbon Steel	Containment Air	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
		Galvanized Carbon Steel	Containment Air	None	None			J, 521
Instrument Support	C-2 C-7 C-10	Carbon Steel	Containment Air and Torus Air	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	A
		Galvanized Carbon Steel	Containment Air	None	None			J, 521
Insulation	C-3	Hydrous Calcium Silicate	Containment Air	None	None			F, 540
Liner (Sump)	C-2	Carbon Steel	Containment Air	Loss of Material	Structures Monitoring Program			J
			Raw Water	Loss of Material	Structures Monitoring Program			J
		Stainless Steel	Containment Air	None	None			J, 529
			Raw Water	Loss of Material	Structures Monitoring Program			J
Moisture Barrier	C-3	Elastomer	Containment Air	Cracking and Change in Material Properties	ASME Section XI, Subsection IWE Program	II.B4.3-a	3.5.1-06	A, 542

**TABLE 3.5.2-1 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – PRIMARY CONTAINMENT**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Penetrations	C-1 C-2 C-7 C-10	Carbon Steel	Containment Air and Torus Air	Loss of Material	ASME Section XI Subsection IWE Program and 10 CFR Part 50, Appendix J Program	II.B4.1-a	3.5.1-03	A, 538
			Protected from Weather	Loss of Material	ASME Section XI Subsection IWE Program and 10 CFR Part 50, Appendix J Program	II.B4.1-a	3.5.1-03	A, 538
			Containment Air and Torus Air	None	None	II.B4.1-c	3.5.1-02	I, 541
			Protected from Weather	None	None	II.B4.1-d	3.5.1-02	I, 541
		Elastomers (Structural Sealant)	Containment Air and Torus Air	Cracking and Change in Material Properties	10 CFR Part 50, Appendix J Program			F, 535
			Protected from Weather	Cracking and Change in Material Properties	10 CFR Part 50, Appendix J Program			F, 535

**TABLE 3.5.2-1 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – PRIMARY CONTAINMENT**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Personnel Airlock; Equipment Hatch; CRD Hatch	C-1 C-3	Carbon Steel	Containment Air and Torus Air	Loss of Material	ASME Section XI Subsection IWE Program and 10 CFR Part 50, Appendix J Program	II.B4.2-a	3.5.1-04	A, 538
				Loss of Leak Tightness in Closed Condition	10 CFR Part 50, Appendix J Program and Plant Technical Specifications	II.B4.2-b	3.5.1-05	A, 548
			Protected from Weather	Loss of Material	ASME Section XI Subsection IWE Program and 10 CFR Part 50, Appendix J Program	II.B4.2-a	3.5.1-04	A, 538
				Loss of Leak Tightness in Closed Condition	10 CFR Part 50, Appendix J Program and Plant Technical Specifications	II.B4.2-b	3.5.1-05	A, 548
Pipe Support (Class 1)	C-2 C-10	Carbon Steel	Containment Air and Torus Air	Loss of Material	ASME Section XI, Subsection IWF Program	III.B1.1.1-a	3.5.1-32	A
				Loss of Mechanical Function	ASME Section XI, Subsection IWF Program	III.B1.1.3-a	3.5.1-32	A

**TABLE 3.5.2-1 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – PRIMARY CONTAINMENT**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Pipe Support (Class 2 and 3)	C-2 C-10	Carbon Steel	Containment Air and Torus Air	Loss of Material	ASME Section XI, Subsection IWF Program	III.B1.2.1-a	3.5.1-32	A
				Loss of Mechanical function	ASME Section XI, Subsection IWF Program	III.B1.2.2-a	3.5.1-32	A
Pipe Support (Class MC)	C-2 C-10	Carbon Steel	Torus Air	Loss of Material	ASME Section XI, Subsection IWF Program	III.B1.3.2-a	3.5.1-32	A
			Treated Water	Loss of Material	ASME Section XI, Subsection IWF Program	III.B1.3.2-a	3.5.1-32	A
Pipe Support (General and non-ASME))	C-7	Carbon Steel	Containment Air and Torus Air	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
RPV Support	C-2	Carbon Steel	Containment Air	Loss of Material	ASME Section XI, Subsection IWF Program	III.B1.1.1-a	3.5.1-32	A
Seals and Gaskets	C-1	Elastomer	Containment Air and Torus Air	Cracking and Change in Material Properties	ASME Section XI Subsection IWE Program and 10 CFR Part 50, Appendix J Program	II.B4.3-a	3.5.1-06	A
Slide Bearing Plate	C-7	Lubrite	Containment Air	None	None			J, 524



**TABLE 3.5.2-1 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – PRIMARY CONTAINMENT**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Structural Steel	C-2 C-7 C-10	Carbon Steel	Containment Air and Torus Air	Loss of material	Structures Monitoring Program	III.A4.2-a	3.5.1-20	A
			Treated Water	Loss of material	Structures Monitoring Program	III.B5.1-a	3.5.1-29	A
Torus Liner	C-1 C-2 C-5 C-7 C-10 C-12	Carbon Steel	Torus Air	Loss of material	ASME Section XI Subsection IWE Program and 10 CFR Part 50, Appendix J Program	II.B1.1.1-a	3.5.1-12	A, 538
			Treated Water	Loss of material	ASME Section XI Subsection IWE Program and 10 CFR Part 50, Appendix J Program	II.B1.1.1-a	3.5.1-12	A, 538
Vent Header	C-1 C-2	Carbon Steel	Torus Air	Loss of material	ASME Section XI, Subsection IWE Program			H
				Fatigue	TLAA	II.B1.1.1-c	3.5.1-13	A, 543
Vent Line Bellows	C-1	Stainless Steel	Torus Air	None	10 CFR Part 50, Appendix J Program	II.B1.1.1-b II.B1.1.1-d	3.5.1-17	I, 529, 539
Whip Restraints (includes Jet Impingement Shields)	C-11	Carbon Steel	Containment Air and Torus Air	Loss of material	Structures Monitoring Program	III.B5.1-a	3.5.1-29	A

**TABLE 3.5.2-2 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – INTAKE AND DISCHARGE CANALS**

<b>Component Commodity</b>	<b>Intended Function</b>	<b>Material</b>	<b>Environment</b>	<b>Aging Effect Requiring Management</b>	<b>Aging Management Program</b>	<b>NUREG-1801 Volume 2 Item</b>	<b>Table 1 Item</b>	<b>Notes</b>
Canal (Intake Canal only)	C-5 C-7	Earth	Exposed to Weather/ Raw Water	Loss of Form	Structures Monitoring Program	III.A6.4-a	3.5.1-22	E, 511
Sheet Piles	C-7	Carbon Steel	Exposed to Weather/ Below Grade/ Submerged	Loss of Material	Structures Monitoring Program	III.A6.2-a	3.5.1-22	E, 511

**TABLE 3.5.2-3 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – REFUELING SYSTEM**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Fuel Prep Machines	C-7	Aluminum	Protected from Weather	Loss of Material	Structures Monitoring Program			J, 503
			Treated Water	Loss of Material	Water Chemistry Program			J
Auxiliary Work Platform	C-7	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J, 503
Refueling Platforms	C-7	Carbon Steel	Protected from Weather	Loss of Material	Inspection of Overhead Heavy Load and Light Load Handling Systems	VII.B.1-b	3.3.1-16	A
				Loss of Material / Wear	Inspection of Overhead Heavy Load and Light Load Handling Systems	VII.B.2-a	3.3.1-16	A
				Cumulative fatigue damage	TCAA	VII.B.1-a	3.3.1-03	A

**TABLE 3.5.2-4 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – SWITCHYARD AND TRANSFORMER YARD STRUCTURES**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes	
Anchorage / Embedment	C-10	Carbon Steel	Embedded/ Encased	None	None			J, 518	
		Galvanized Carbon Steel	Embedded/ Encased	None	None			J, 519	
Cable Tray / Conduit	C-10	Galvanized Carbon Steel	Exposed to Weather	Loss of Material	Structures Monitoring Program			J	
			Protected from Weather	None	None			J, 521	
Concrete Above Grade	C-10	Concrete	Exposed to Weather	Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B2.2-a	3.5.1-29	A	
Concrete Below Grade	C-10	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program			J, 501	
Electrical Enclosure	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508	
			Exposed to Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508	
		Galvanized Carbon Steel	Protected from Weather	None	None				F, 521
			Exposed to Weather	Loss of Material	Structures Monitoring Program				F
Electrical Support	C-10	Galvanized Carbon Steel	Protected from Weather	None	None			F, 521	
			Exposed to Weather	Loss of Material	Structures Monitoring Program			F	

**TABLE 3.5.2-4 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – SWITCHYARD AND TRANSFORMER YARD STRUCTURES**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Equipment Support	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Piles	C-10	Carbon Steel	Driven in undisturbed soil	None	None			J, 522
Siding	C-10	Carbon Steel	Exposed to Weather	Loss of Material	Structures Monitoring Program			J
Structural Steel	C-10	Galvanized Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
		Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J

**TABLE 3.5.2-5 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – BRIDGE CRANES**

<b>Component Commodity</b>	<b>Intended Function</b>	<b>Material</b>	<b>Environment</b>	<b>Aging Effect Requiring Management</b>	<b>Aging Management Program</b>	<b>NUREG-1801 Volume 2 Item</b>	<b>Table 1 Item</b>	<b>Notes</b>
Reactor Building Bridge Crane	C-2	Carbon Steel	Protected from Weather	Loss of Material	Inspection of Overhead Heavy Load and Light Load Handling Systems	VII.B.1-b	3.3.1-16	A
				Loss of Material / Wear	Inspection of Overhead Heavy Load and Light Load Handling Systems	VII.B.2-a	3.3.1-16	A
				Cumulative Fatigue Damage	TLAA	VII.B.1-a	3.3.1-03	A

**TABLE 3.5.2-6 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – GANTRY CRANES**

<b>Component Commodity</b>	<b>Intended Function</b>	<b>Material</b>	<b>Environment</b>	<b>Aging Effect Requiring Management</b>	<b>Aging Management Program</b>	<b>NUREG-1801 Volume 2 Item</b>	<b>Table 1 Item</b>	<b>Notes</b>
Intake Structure Gantry Crane	C-7	Carbon Steel	Exposed to Weather	Loss of Material	Inspection of Overhead Heavy Load and Light Load Handling Systems	VII.B.1-b	3.3.1-16	A
				Loss of Material / Wear	Inspection of Overhead Heavy Load and Light Load Handling Systems	VII.B.2-a	3.3.1-16	A
				Cumulative Fatigue Damage	TLAA	VII.B.1-a	3.3.1-03	A

**TABLE 3.5.2-7 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – SERVICE WATER INTAKE STRUCTURE**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Anchorage / Embedment	C-2 C-7 C-10	Carbon Steel	Embedded/ Encased	None	None			J, 518
Cable Tray / Conduit	C-2 C-7 C-10	Galvanized Carbon Steel	Exposed to Weather	Loss of Material	Structures Monitoring Program			J. 544
			Protected from Weather	Loss of Material	Structures Monitoring Program		J. 544	
		Stainless Steel	Protected from Weather	Loss of Material	Structures Monitoring Program		J. 544	
Concrete Above Grade	C-2 C-3 C-6 C-7 C-8 C-10	Concrete	Exposed to Weather	None	Structures Monitoring Program	III.A6.1-a	3.5.1-22	A, 501, 504, 511
				None	Structures Monitoring Program	III.A6.1-c	3.5.1-22	A, 501, 505, 511
				Loss of Material	Structures Monitoring Program	III.A6.1-d	3.5.1-22	E, 511
				Loss of Material	Structures Monitoring Program	III.A6.1-e	3.5.1-22	E, 511
				None	Structures Monitoring Program	III.A6.1-f	3.5.1-22	A, 501, 506, 511



**TABLE 3.5.2-7 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – SERVICE WATER INTAKE STRUCTURE**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Above Grade (continued)	C-2 C-3 C-4 C-6 C-7 C-8 C-10	Concrete	Protected from Weather	None	Structures Monitoring Program	III.A6.1-c	3.5.1-22	A, 501, 505, 511
				Cracking and Spalling	Fire Protection Program and Structures Monitoring Program	VII.G.1-b	3.3.1-30	A
				Loss of Material	Structures Monitoring Program	III.A6.1-d	3.5.1-22	E, 511
				Loss of Material	Fire Protection Program and Structures Monitoring Program	VII.G.1-c	3.3.1-30	A
				Loss of Material	Structures Monitoring Program	III.A6.1-e	3.5.1-22	E, 511
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B1.2.3-a III.B2.2-a III.B3.2-a III.B4.3-a	3.5.1-29	A
Concrete Below Grade	C-2 C-3 C-7 C-8 C-10	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program	III.A6.1-a	3.5.1-22	A, 501, 504, 511
				None	Structures Monitoring Program	III.A6.1-c	3.5.1-22	A, 501, 505
				Loss of Material	Structures Monitoring Program	III.A6.1-d	3.5.1-22	E, 511

**TABLE 3.5.2-7 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – SERVICE WATER INTAKE STRUCTURE**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Below Grade (continued)	C-2	Concrete	Below Grade/ Submerged	Loss of Material	Structures Monitoring Program	III.A6.1-e	3.5.1-22	E, 511
	C-3			None	Structures Monitoring Program	III.A6.1-f	3.5.1-22	A, 501, 506, 511
	C-7 C-8 C-10			None	None	III.A6.1-g	3.5.1-26	I, 507
Concrete Submerged	C-2	Concrete	Raw Water	Loss of Material	Structures Monitoring Program	III.A6.1-b	3.5.1-22	E, 511
	C-5 C-7 C-8 C-10			Loss of Material	Structures Monitoring Program	III.A6.1-h	3.5.1-22	E, 511
Doors	C-4 C-7 C-8	Carbon Steel	Exposed to Weather	Loss of Material/ Wear	Fire Protection Program and Structures Monitoring Program	VII.G.1-d	3.3.1-20	A
Electrical Enclosure	C-2	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
	C-7 C-10	Galvanized Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			F, 544
Electrical Support	C-2	Galvanized Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			F, 544
	C-7 C-10	Stainless Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			F, 544

**TABLE 3.5.2-7 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – SERVICE WATER INTAKE STRUCTURE**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Equipment Support	C-2	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B4.1-a	3.5.1-29	C, 508
	C-7 C-10	Galvanized Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			F, 544
Fire Hose Station	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
Floor Drains	C-8	Carbon Steel	Embedded/ Encased	None	None			J, 518
HVAC Support	C-2	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
Instrument Racks	C-2	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
	C-7 C-10	Stainless Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			F, 544
Instrument Support	C-2	Galvanized Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			F, 544
	C-7 C-10	Stainless Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			F, 544
Masonry Walls	C-8	Concrete Block	Exposed to Weather	Cracking for Masonry Block Walls	Masonry Wall Program	III.A6.3-a	3.5.1-24	A
Penetration	C-2 C-4 C-7 C-10	Sealant	Protected from Weather	Cracking, Delamination & Separation	Fire Protection Program	VII.G.1-a	3.3.1-20	A

**TABLE 3.5.2-7 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – SERVICE WATER INTAKE STRUCTURE**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Pipe Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	ASME Section XI, Subsection IWF	III.B1.2.1-a	3.5.1-32	A
				Loss of Mechanical Function	ASME Section XI, Subsection IWF	III.B1.2.2-a	3.5.1-32	A
				Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
				None	None	III.B1.2.1-c	3.5.1-30	I, 509
Roof-Membrane/ Built-up	C-3	Elastomer	Exposed to Weather	Change in Material Properties	Structures Monitoring Program			J
Seals and Gaskets	C-3	Elastomer	Exposed to Weather	Change in Material Properties	Structures Monitoring Program			J
Spray Shield	C-13	Aluminum	Protected from Weather	None	None			J, 526
Sprayed on Coatings	C-4	Fire Proofing Material	Protected from Weather	Loss of Material	Fire Protection Program			J
Structural Steel	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.A6.2-a	3.5.1-22	E, 511

**TABLE 3.5.2-8 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – REACTOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Anchorage / Embedment	C-2 C-7 C-10	Carbon Steel	Embedded/ Encased	None	None			J, 518
Bellows (RCIC Bellows - MSIV Pit)	C-3	Carbon Steel	Protected from Weather	None	None			J, 546
		Stainless Steel	Protected from Weather	None	None			J, 529
Blow-Out Panel	C-1 C-2 C-3	Galvanized Carbon Steel	Exposed to Weather	None	None			J, 520
		Aluminum	Exposed to Weather	Loss of Material	Structures Monitoring Program			J
		Stainless Steel	Exposed to Weather	None	None			J, 528
Cable Tray / Conduit	C-2 C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			J, 521
Concrete Above Grade	C-1 C-2 C-3 C-6 C-7 C-8 C-10	Concrete	Exposed to Weather	None	Structures Monitoring Program	III.A2.1-a	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A2.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A2.1-d	3.5.1-20	A, 501, 510
				None	Structures Monitoring Program	III.A2.1-f	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A2.1-h	3.5.1-25	A, 501, 506

**TABLE 3.5.2-8 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – REACTOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Above Grade (continued)	C-1	Concrete	Protected from Weather	None	Structures Monitoring Program	III.A2.1-b	3.5.1-20	A, 501, 512
	C-2			None	Structures Monitoring Program	III.A2.1-c	3.5.1-20	A, 501, 505
	C-3			None	Structures Monitoring Program	III.A2.1-d	3.5.1-20	A, 501, 510
	C-4			None	Structures Monitoring Program	III.A2.1-f	3.5.1-20	A, 501, 510
	C-6			Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B1.2.3-a III.B2.2-a III.B3.2-a III.B4.3-a III.B5.2-a	3.5.1-29	A
	C-7			None	None	III.A2.1-j	3.5.1-27	I, 513
	C-8			None	Fire Protection Program and Structures Monitoring Program	VII.G.3-b VII.G.3-c	3.3.1-30	A, 501, 534
	C-10			None	Structures Monitoring Program	III.A2.1-a	3.5.1-20	A, 501, 504
Concrete Below Grade	C-2	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program	III.A2.1-a	3.5.1-20	A, 501, 504
	C-3			None	Structures Monitoring Program	III.A2.1-b	3.5.1-20	A, 512
	C-7			None	Structures Monitoring Program	III.A2.1-c	3.5.1-20	A, 501, 505
	C-8			None	Structures Monitoring Program	III.A2.1-e	3.5.1-21	A, 501, 517
C-10								

**TABLE 3.5.2-8 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – REACTOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Below Grade (continued)	C-2	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program	III.A2.1-g	3.5.1-21	A, 501, 517
	C-3			None	Structures Monitoring Program	III.A2.1-h	3.5.1-25	A, 501, 506
	C-7			None	None	III.A2.1-i	3.5.1-26	I, 507
	C-8 C-10			None	None	III.A2.1-j	3.5.1-27	I, 513
Concrete Curbs	C-13	Concrete	Protected from Weather	None	Structures Monitoring Program			J, 501
Damper Mounting	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
Doors	C-1 C-4 C-8	Carbon Steel	Expose to and Protected from Weather	Loss of Material (Includes Wear)	Fire Protection Program and Structures Monitoring Program	VII.G.3-d	3.3.1-20	A, 534
Electrical Enclosure	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
		Stainless Steel	Protected from Weather	None	None			F, 529

**TABLE 3.5.2-8 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – REACTOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Electrical Support	C-2	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
	C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Equipment Support	C-2	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B4.1-a	3.5.1-29	A
	C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Fire Barrier Assembly	C-4	Fire Proofing Materials	Protected from Weather	Loss of Material	Fire Protection Program			J
Fire Hose Station	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
Floor Drains	C-8	Carbon Steel	Embedded/ Encased	None	None			J, 518
HVAC Support	C-2	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
	C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			J, 521
Instrument Racks	C-2	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
	C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			F, 521



**TABLE 3.5.2-8 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – REACTOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Instrument Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
		Stainless Steel	Protected from Weather	None	None			F, 529
Liner	C-2	Stainless Steel	Protected from Weather	None	None			F, 529
Liner (includes spent fuel pool gates)	C-2	Stainless Steel	Treated Water	Loss of Material	Water Chemistry Program (and monitoring of spent fuel pool level )	III.A5.2-b	3.5.1-23	A, I, 545, 547
Masonry Walls	C-2 C-4 C-7 C-10	Concrete Block	Protected from Weather	Cracking for Masonry Block Walls	Masonry Wall Program and Fire Protection Program	III.A2.3-a	3.5.1-24	A
Penetrations	C-1 C-2 C-4 C-7 C-10	Sealant	Protected from Weather	Cracking, Delamination & Separation	Fire Protection Program	VII.G.3-a	3.3.1-20	A, 534
Pipe Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	ASME Section XI, Subsection IWF	III.B1.2.1-a	3.5.1-32	A
				Loss of Mechanical Function	ASME Section XI, Subsection IWF	III.B1.2.2-a	3.5.1-32	A
				None	None	III.B1.2.1-c	3.5.1-30	I, 509
				Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A

**TABLE 3.5.2-8 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – REACTOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Pipe Support	C-2 C-7	Lubrite	Protected from Weather	None	None	III.B1.2.2-a	3.5.1-32	I, 533
Roof-Membrane/ Built-up	C-3	Elastomer	Exposed to Weather	Change in Material Properties & Cracking	Structures Monitoring Program			J
Seals and Gaskets	C-1 C-3	Elastomer	Exposed to Weather	Change in Material Properties & Cracking	Structures Monitoring Program			J
Seals and Gaskets (spent fuel pool gate seals)	C-1 C-3	Elastomer	Treated Water	None	None			J, 531
Siding	C-1 C-3	Galvanized Carbon Steel	Exposed to Weather	None	None			J, 520
Slide Bearing Plate	C-2	Lubrite	Protected from Weather	None	None			J, 524
Slide Bearing Plate	C-2	Lubrite (under the spent fuel storage rack in the fuel pool)	Treated Water	None	None			J, 524, 530

**TABLE 3.5.2-8 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – REACTOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Spent Fuel Storage Rack	C-2	Stainless Steel	Treated Water	Loss of Material	Water Chemistry Program			H, 545
		Boral (sand-wiched between two SS tubes)	Treated Water	None	None	VII.A2.1-b	3.3.1-10	I, 532
Spray Shield	C-13	Aluminum	Protected from Weather	None	None			J, 526
Sprayed on Coatings	C-4	Fire Proofing Material	Protected from Weather	Loss of Material	Fire Protection Program			J
Structural Steel	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1-20	A, 538
Tendons	C-2	Carbon Steel	Protected from Weather	Loss of Material	Fuel Pool Girder Tendon Monitoring Program			J
				Loss of Pre-Stress	TLAA			J
Whip Restraints	C-11	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B5.1-a	3.5.1-29	A

**TABLE 3.5.2-9 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – AUGMENTED OFF-GAS BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Anchorage / Embedment	C-2 C-7 C-10	Carbon Steel	Embedded/ Encased	None	None			J, 518
Cable Tray / Conduit	C-2 C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			J, 520
Concrete Above Grade	C-2 C-3 C-6 C-7 C-8 C-10	Concrete	Exposed to Weather	None	Structures Monitoring Program	III.A3.1-a	3.5.1-20	A, 501, 504, 516
				None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505, 516
				None	Structures Monitoring Program	III.A3.1-d	3.5.1-20	A, 501, 510, 516
				None	Structures Monitoring Program	III.A3.1-f	3.5.1-20	A, 501, 504, 516
				None	Structures Monitoring Program	III.A3.1-h	3.5.1-25	A, 501, 506, 516
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B2.2-a III.B3.2-a III.B4.3-a III.B5.2-a	3.5.1-29	A

**TABLE 3.5.2-9 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – AUGMENTED OFF-GAS BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Above Grade (continued)	C-2 C-3 C-4 C-6 C-7 C-8 C-10	Concrete	Protected from Weather	None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505, 516
				None	Structures Monitoring Program	III.A3.1-d	3.5.1-20	A, 501, 510, 516
				None	Structures Monitoring Program	III.A3.1-f	3.5.1-20	A, 501, 510, 516
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B2.2-a III.B3.2-a III.B4.3-a III.B5.2-a	3.5.1-29	A
				None	None	III.A3.1-j	3.5.1-27	I, 513, 516
				None	Fire Protection Program			J
Concrete Below Grade	C-2 C-3 C-7 C-8 C-10	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program	III.A3.1-a	3.5.1-20	A, 501, 504, 516
				None	Structures Monitoring Program	III.A3.1-b	3.5.1-20	A, 501, 512, 516

**TABLE 3.5.2-9 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – AUGMENTED OFF-GAS BUILDING**

<b>Component Commodity</b>	<b>Intended Function</b>	<b>Material</b>	<b>Environment</b>	<b>Aging Effect Requiring Management</b>	<b>Aging Management Program</b>	<b>NUREG-1801 Volume 2 Item</b>	<b>Table 1 Item</b>	<b>Notes</b>
Concrete Below Grade (continued)	C-2 C-3 C-7 C-8 C-10	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505, 516
				None	Structures Monitoring Program	III.A3.1-e	3.5.1-21	A, 501, 516, 517
				None	Structures Monitoring Program	III.A3.1-g	3.5.1-21	A, 501, 516, 517
				None	Structures Monitoring Program	III.A3.1-h	3.5.1-25	A, 501, 506, 516
				None	None	III.A3.1-i	3.5.1-26	I, 507, 516
				None	None	III.A3.1-j	3.5.1-27	I, 513, 516

**TABLE 3.5.2-9 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – AUGMENTED OFF-GAS BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Doors	C-4 C-8	Carbon Steel	Exposed to Weather	Loss of Material (Includes Wear)	Fire Protection Program and Structures Monitoring Program			J
Electrical Enclosure	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Electrical Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Equipment Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B4.1-a	3.5.1-29	A
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521

**TABLE 3.5.2-9 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – AUGMENTED OFF-GAS BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Fire Hose Station	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
Instrument Racks	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
Instrument Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
Masonry Walls	C-2 C-7 C-10	Concrete Block	Protected from Weather	Cracking for Masonry Block Walls	Masonry Wall Program	III.A3.3-a	3.5.1-24	A, 516
Penetrations	C-2 C-4 C-7 C-10	Sealant	Protected from Weather	Cracking, Delamination & Separation	Fire Protection Program			J, 515
Pipe Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
Slide Bearing Plate	C-2	Lubrite	Protected from Weather	None	None			J, 524
Structural Steel	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1-20	A, 516, 538



**TABLE 3.5.2-10 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – DIESEL GENERATOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Anchorage / Embedment	C-2 C-7 C-10	Carbon Steel	Embedded/ Encased	None	None			J, 518
Blow-Out Panel	C-2	Galvanized Carbon Steel	Protected from Weather	None	None			J, 521
Cable Tray / Conduit	C-2 C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			J, 521
Concrete Above Grade	C-2 C-3 C-6 C-7 C-8 C-10	Concrete	Exposed to Weather	None	Structures Monitoring Program	III.A3.1-a	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A3.1-d	3.5.1-20	A, 501, 510
				None	Structures Monitoring Program	III.A3.1-f	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A3.1-h	3.5.1-25	A, 501, 506
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B1.2.3-a III.B2.2-a III.B3.2-a III.B4.3-a III.B5.2-a	3.5.1-29	A

**TABLE 3.5.2-10 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – DIESEL GENERATOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Above Grade	C-2 C-3 C-4 C-6 C-7 C-8 C-10	Concrete	Protected from Weather	None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A3.1-d	3.5.1-20	A, 501, 510
				None	Fire Protection Program and Structures Monitoring Program	VII.G.4-b VII.G.4-c	3.3.1-30	A, 501
				None	Structures Monitoring Program	III.A3.1-f	3.5.1-20	A, 501, 510
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B1.2.3-a III.B2.2-a III.B3.2-a III.B4.3-a III.B5.2-a	3.5.1-29	A
				None	None	III.A3.1-j	3.5.1-27	I, 513
Concrete Below Grade	C-2 C-3 C-7 C-8 C-10	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program	III.A3.1-a	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A3.1-b	3.5.1-20	A, 501, 512
				None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A3.1-e	3.5.1-21	A, 501, 517
				None	Structures Monitoring Program	III.A3.1-g	3.5.1-21	A, 501, 517

**TABLE 3.5.2-10 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – DIESEL GENERATOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Below Grade (continued)	C-2	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program	III.A3.1-h	3.5.1-25	A, 501, 506
	C-3			None	None	III.A3.1-i	3.5.1-26	I, 507
	C-7 C-8 C-10			None	None	III.A3.1-j	3.5.1-27	I, 513
Concrete Curbs	C-13	Concrete	Protected from Weather	None	Structures Monitoring Program			J, 501
Damper Mounting	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
Doors	C-4 C-8	Carbon Steel	Protected from Weather	Loss of Material / Wear	Fire Protection Program and Structures Monitoring Program	VII.G.4-d	3.3.1-20	A
Electrical Enclosure	C-2 C-3	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
	C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Electrical Support	C-2 C-7	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
	C-10	Galvanized Carbon Steel	Protected from Weather	None	None			F, 521

**TABLE 3.5.2-10 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – DIESEL GENERATOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Equipment Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B4.1-a	3.5.1-29	A
Fire Barrier Assembly	C-4	Fire Proofing Materials	Protected from Weather	Loss of Material	Fire Protection Program			J
Fire Hose Station	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
Floor drains	C-8	Carbon Steel	Embedded/ Encased	None	None			J, 518
HVAC Supports	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
Instrument Racks	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
Instrument Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
Masonry Walls	C-2 C-4 C-7 C-10	Concrete Block	Protected from Weather	Cracking for Masonry Block Walls	Masonry Wall Program and Fire Protection Program	III.A3.3-a	3.5.1-24	A
Penetrations	C-2 C-4 C-7 C-10	Sealant	Protected from Weather	Cracking, Delamination & Separation	Fire Protection Program	VII.G.4-a	3.3.1-20	A

**TABLE 3.5.2-10 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – DIESEL GENERATOR BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Pipe Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	ASME Section XI, Subsection IWF	III.B1.2.1-a	3.5.1-32	A
				Loss of Mechanical Function	ASME Section XI, Subsection IWF	III.B1.2.2-a	3.5.1-32	A
				None	None	III.B1.2.1-c	3.5.1-30	I, 509
				Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
Roof-Built-Up	C-3	Elastomer	Exposed to Weather	Change in Material Properties & Cracking	Structures Monitoring Program			J
Siding	C-3	Aluminum	Exposed to Weather	Loss of Material	Structures Monitoring Program			J
Spray Shield	C-13	Aluminum	Protected from Weather	None	None			J, 526
Sprayed on Coatings	C-4	Fire Proofing Materials	Protected from Weather	Loss of Material	Fire Protection Program			J
Structural Steel	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1-20	A, 538

**TABLE 3.5.2-11 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – CONTROL BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Anchorage / Embedment	C-2 C-7 C-10	Carbon Steel	Embedded/ Encased	None	None			J, 518
Battery Rack	C-2	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	A, 508
Cable Tray / Conduit	C-2 C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			J, 521
Concrete Above Grade	C-2 C-3 C-6 C-7 C-8 C-10	Concrete	Exposed to Weather	None	Structures Monitoring Program	III.A2.1-a	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A2.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A2.1-d	3.5.1-20	A, 501, 510
				None	Structures Monitoring Program	III.A2.1-f	3.5.1-20	A, 501, 510
				None	Structures Monitoring Program	III.A2.1-h	3.5.1-25	A, 501, 506
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B2.2-a III.B3.2-a III.B4.3-a III.B5.2-a	3.5.1-29	A

**TABLE 3.5.2-11 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – CONTROL BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Above Grade (continued)	C-2 C-3 C-4 C-6 C-7 C-8 C-10	Concrete	Protected from Weather	None	Structures Monitoring Program	III.A2.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A2.1-d	3.5.1-20	A, 501, 510
				None	Structures Monitoring Program	III.A2.1-f	3.5.1-20	A, 501, 510
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B2.2-a III.B3.2-a III.B4.3-a III.B5.2-a	3.5.1-29	A
				None	None	III.A2.1-j	3.5.1-27	I, 513
				None	Fire Protection Program and Structures Monitoring Program	VII.G.3-b VII.G.3-c	3.3.1-30	A, 534
Concrete Below Grade	C-2 C-3 C-7 C-8 C-10	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program	III.A2.1-a	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A2.1-b	3.5.1-20	A, 501, 512
				None	Structures Monitoring Program	III.A2.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A2.1-e	3.5.1-21	A, 501, 517
				None	Structures Monitoring Program	III.A2.1-g	3.5.1-21	A, 501, 517

**TABLE 3.5.2-11 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – CONTROL BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Below Grade (continued)	C-2	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program	III.A2.1-h	3.5.1-25	A, 501, 506
	C-3			None	None	III.A2.1-i	3.5.1-26	I, 507
	C-7 C-8 C-10			None	None	III.A2.1-j	3.5.1-27	I, 513
Control Room Ceiling	C-7	Incombustible Mineral Fiber	Protected from Weather	None	None			J, 525
Damper Mounting	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
Doors	C-1 C-4	Carbon Steel	Protected from Weather	Loss of Material / Wear	Fire Protection Program and Structures Monitoring Program	VII.G.3-d	3.3.1-20	A, 534
Electrical Enclosure	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Electrical Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Equipment Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B4.1-a	3.5.1-29	A



**TABLE 3.5.2-11 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – CONTROL BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Fire Barrier Assembly	C-4	Fire Proofing Materials	Protected from Weather	Loss of Material	Fire Protection Program			J
Fire Hose Station	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
HVAC Supports	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
Instrument Racks	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
Instrument Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
Masonry Walls	C-2 C-4 C-7 C-10	Concrete Block	Protected from Weather	Cracking for Masonry Block Walls	Masonry Wall Program and Fire Protection Program	III.A2.3-a	3.5.1-24	A
Penetrations	C-2 C-4 C-7 C-10	Sealant	Protected from Weather	Cracking, Delamination & Separation	Fire Protection Program	VII.G.3-a	3.3.1-20	A, 534
Pipe Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A

**TABLE 3.5.2-11 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – CONTROL BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Raised Floor	C-2	Galvanized Carbon Steel	Protected from Weather	None	None			J, 521
Roof-Membrane / Built-Up	C-3	Elastomer	Exposed to Weather	Change in Material Properties & Cracking	Structures Monitoring Program			J
Seals and Gaskets	C-1	Elastomer	Protected from Weather	Change in Material Properties & Cracking	Structures Monitoring Program			J
Sprayed on Coatings	C-4	Fire Proofing Materials	Protected from Weather	Loss of Material	Fire Protection Program			J
Structural Steel	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1-20	A, 538

**TABLE 3.5.2-12 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – TURBINE BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Anchorage / Embedment	C-2 C-7 C-10	Carbon Steel	Embedded/ Encased	None	None			J, 518
Cable Tray / Conduit	C-2 C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			J, 521
Concrete Above Grade	C-2 C-3 C-7 C-8 C-10	Concrete	Exposed to Weather	None	Structures Monitoring Program	III.A3.1-a	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A3.1-d	3.5.1-20	A, 501, 510
				None	Structures Monitoring Program	III.A3.1-f	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A3.1-h	3.5.1-25	A, 501, 506
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B2.2-a, III.B3.2-a, III.B4.3-a, III.B5.2-a	3.5.1-29	A

**TABLE 3.5.2-12 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – TURBINE BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Above Grade (continued)	C-2 C-3 C-4 C-7 C-8 C-10	Concrete	Protected from Weather	None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505
				None	Fire Protection Program and Structures Monitoring Program	VII.G.2-b	3.3.1-30	A, 501
				None	Structures Monitoring Program	III.A3.1-d	3.5.1-20	A, 501, 510
				None	Fire Protection Program and Structures Monitoring Program	VII.G.2-c	3.3.1-30	A, 501
				None	Structures Monitoring Program	III.A3.1-f	3.5.1-20	A, 501, 510
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B2.2-a, III.B3.2-a, III.B4.3-a, III.B5.2-a	3.5.1-29	A
				None	None	III.A3.1-j	3.5.1-27	I, 513
	C-2 C-3 C-7 C-8 C-10	Concrete	Raw Water (Spray & Leakage within the Circulating Water Condenser Pits)	Loss of Material	Structures Monitoring Program			G

**TABLE 3.5.2-12 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – TURBINE BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Below Grade	C-2	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program	III.A3.1-a	3.5.1-20	A, 501, 504
	C-3			None	Structures Monitoring Program	III.A3.1-b	3.5.1-20	A, 501, 512
	C-7			None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505
	C-8			None	Structures Monitoring Program	III.A3.1-e	3.5.1-21	A, 501, 517
	C-10			None	Structures Monitoring Program	III.A3.1-g	3.5.1-21	A, 501, 517
				None	Structures Monitoring Program	III.A3.1-h	3.5.1-25	A, 501, 506
				None	None	III.A3.1-i	3.5.1-26	I, 507
				None	None	III.A3.1-j	3.5.1-27	I, 513
Concrete Curbs	C-8	Concrete	Protected from Weather	None	Structures Monitoring Program			J, 501
Doors	C-4 C-8	Carbon Steel	Protected from Weather	Loss of Material / Wear	Fire Protection Program and Structures Monitoring Program	VII.G.2-d	3.3.1-20	A

**TABLE 3.5.2-12 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – TURBINE BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Electrical Enclosure	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Electrical Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Equipment Support	C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B4.1-a	3.5.1-29	A
Fire Barrier Assembly	C-4	Fire Proofing Materials	Protected from Weather	Loss of Material	Fire Protection Program			J
Fire Hose Station	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
Instrument Racks	C-2	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
Instrument Support	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
Masonry Walls	C-2 C-4 C-7 C-10	Concrete Block	Protected from Weather	Cracking for Masonry Block Walls	Masonry Wall Program and Fire Protection Program	III.A3.3-a	3.5.1-24	A

**TABLE 3.5.2-12 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – TURBINE BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Penetrations	C-2 C-4 C-7 C-10	Sealant	Protected from Weather	Cracking, Delamination & Separation	Fire Protection Program	VII.G.2-a	3.3.1-20	A
Pipe Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
Roof-Membrane / Built-Up	C-10	Elastomer	Exposed to Weather	Change in Material Properties & Cracking	Structures Monitoring Program			J
Siding	C-10	Galvanized Carbon Steel	Exposed to Weather	None	None			J, 520
Structural Steel	C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1-20	A, 538

**TABLE 3.5.2-13 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – RADWASTE BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Anchorage / Embedment	C-2 C-7 C-10	Carbon Steel	Embedded/ Encased	None	None			J, 518
Cable Tray / Conduit	C-2 C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			J, 521
Concrete Above Grade	C-2 C-3 C-6 C-7 C-8 C-10	Concrete	Exposed to Weather	None	Structures Monitoring Program	III.A3.1-a	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A3.1-d	3.5.1-20	A, 501, 510
				None	Structures Monitoring Program	III.A3.1-f	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A.3-h	3.5.1-25	A, 501, 506
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B2.2-a III.B3.2-a	3.5.1-29	A



**TABLE 3.5.2-13 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – RADWASTE BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Above Grade (continued)	C-2 C-3 C-6 C-7 C-8 C-10	Concrete	Protected from Weather	None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A3.1-d	3.5.1-20	A, 501, 510
				None	Structures Monitoring Program	III.A3.1-f	3.5.1-20	A, 501, 510
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B2.2-a III.B3.2-a	3.5.1-29	A
				None	None	III.A3.1-j	3.5.1-27	I, 513
Concrete Below Grade	C-2 C-3 C-7 C-8 C-10	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program	III.A3.1-a	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A3.1-b	3.5.1-20	A, 501, 512
				None	Structures Monitoring Program	III.A3.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A3.1-e	3.5.1-21	A, 501, 517
				None	Structures Monitoring Program	III.A3.1-g	3.5.1-21	A, 501, 517
				None	Structures Monitoring Program	III.A3.1-h	3.5.1-25	A, 501, 506
				None	None	III.A3.1-i	3.5.1-26	I, 507
				None	None	III.A3.1-j	3.5.1-27	I, 513

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Doors	C-8	Carbon Steel	Protected from Weather	Loss of Material (Includes Wear)	Structures Monitoring Program			J

**TABLE 3.5.2-13 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – RADWASTE BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Electrical Enclosure	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Electrical Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
Fire Hose Station	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
Instrument Support	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
Pipe Support	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
Roof-Membrane / Built-Up	C-10	Elastomer	Exposed to Weather	Change in Material Properties & Cracking	Structures Monitoring Program			J

**TABLE 3.5.2-14 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – WATER TREATMENT BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Anchorage / Embedment	C-10	Carbon Steel	Embedded/ Encased	None	None			J, 518
Battery Rack	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
Cable Tray / Conduit	C-10	Galvanized Carbon Steel	Protected from Weather	None	None			J, 521
Concrete Above Grade	C-10	Concrete	Exposed to Weather	None	Structures Monitoring Program			J, 501
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B2.2-a III.B3.2-a III.B4.3-a	3.5.1-29	A
			Protected from Weather	None	Structures Monitoring Program			J, 501
				Reduction in concrete anchor capacity due to local concrete degradation	Structures Monitoring Program	III.B2.2-a III.B3.2-a III.B4.3-a	3.5.1-29	A
Concrete Below Grade	C-10	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program			J, 501
Electrical Enclosure	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521

**TABLE 3.5.2-14 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – WATER TREATMENT BUILDING**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Electrical Support	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
		Galvanized Carbon Steel	Protected from Weather	None	None			F, 521
Equipment Support	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B4.1-a	3.5.1-29	A
Fire Barrier Assembly	C-4	Carbon Steel	Protected from Weather	Loss of Material	Fire Protection Program			J
Instrument Support	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B3.1-a	3.5.1-29	C, 508
Pipe Support	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program	III.B2.1-a	3.5.1-29	A
Siding	C-10	Galvanized Carbon Steel	Exposed to Weather	None	None			J, 520
Structural Steel	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J

**TABLE 3.5.2-15 CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – MISCELLANEOUS STRUCTURES AND OUT-BUILDINGS**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Anchorage / Embedment	C-2 C-7 C-10	Carbon Steel	Embedded/ Encased	None	None			J, 518
Anchor / Embedment, Exposed	C-2 C-7 C-10	Carbon Steel	Exposed to Weather	Loss of Material	Structures Monitoring Program			J
Cable Tray / Conduit	C-2 C-7 C-10	Galvanized Carbon Steel	Protected from Weather	None	None			J, 521
Concrete BWR Vent Stack	C-2 C-9	Concrete	Exposed to Weather	None	Structures Monitoring Program	III.A9.1-a	3.5.1-20	A, 501, 504
			and	None	Structures Monitoring Program	III.A9.1-b	3.5.1-20	A, 501, 512
			Below Grade/ Submerged	None	Structures Monitoring Program	III.A9.1-c	3.5.1-20	A, 501, 505
			None	Structures Monitoring Program	III.A9.1-d	3.5.1-20	A, 501, 510	
			None	Structures Monitoring Program	III.A9.1-e	3.5.1-21	A, 501, 517	
			None	Structures Monitoring Program	III.A9.1-f	3.5.1-20	A, 501	
			None	Structures Monitoring Program	III.A9.1-g	3.5.1-21	A, 501, 517	
			None	Structures Monitoring Program	III.A9.1-h	3.5.1-25	A, 501, 506	
			None	None	III.A9.1-i	3.5.1-26	I, 507	

**TABLE 3.5.2-15 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – MISCELLANEOUS STRUCTURES AND OUT-BUILDINGS**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Concrete Below Grade (includes Manholes)	C-2 C-3 C-7 C-10	Concrete	Below Grade/ Submerged	None	Structures Monitoring Program			J, 501
Concrete Above Grade	C-10	Concrete	Exposed to Weather	None	Structures Monitoring Program			J, 501
Tank Foundation	C-7 C-10	Concrete	Exposed to Weather	None	Structures Monitoring Program	III.A8.1-a	3.5.1-20	A, 501, 504
				None	Structures Monitoring Program	III.A8.1-b	3.5.1-20	A, 501, 512
			and Below Grade/ Submerged	None	Structures Monitoring Program	III.A8.1-c	3.5.1-20	A, 501, 505
				None	Structures Monitoring Program	III.A8.1-d	3.5.1-21	A, 501, 510, 517
				None	Structures Monitoring Program	III.A8.1-e	3.5.1-21	A, 501, 510, 517
			None	Structures Monitoring Program	III.A8.1-f	3.5.1-25	A, 501, 506	
			None	None	III.A8.1-g	3.5.1-26	I, 507	
Electrical Enclosure	C-2 C-7 C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			F
		Galvanized Carbon Steel	Exposed to Weather	None	None			F, 520

**TABLE 3.5.2-15 (continued) CONTAINMENTS, STRUCTURES, AND COMPONENT SUPPORT - SUMMARY OF AGING MANAGEMENT EVALUATION – MISCELLANEOUS STRUCTURES AND OUT-BUILDINGS**

Component Commodity	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG-1801 Volume 2 Item	Table 1 Item	Notes
Electrical Support	C-2 C-7 C-10	Galvanized Carbon Steel	Exposed to Weather	None	None			F, 520
Instrument Support	C-2 C-7 C-10	Galvanized Carbon Steel	Exposed to Weather	None	None			J, 508
Piles	C-1	Carbon Steel	Driven in Undisturbed Soil	None	None			J, 522
Siding	C-10	Galvanized Carbon Steel	Exposed to Weather	None	None			J, 520
Structural Steel	C-10	Carbon Steel	Protected from Weather	Loss of Material	Structures Monitoring Program			J
		Galvanized Carbon Steel	Protected from Weather	None	None			J, 521
		Galvanized Carbon Steel	Exposed to Weather	None	None	None		J, 521

Notes for Tables 3.5.2-1 through 3.5.2-15:

Generic Notes:

- A. Consistent with NUREG-1801 item for component, material, environment, and aging effect. AMP is consistent with NUREG-1801 AMP.
- B. Consistent with NUREG-1801 item for component, material, environment, and aging effect. AMP takes some exceptions to NUREG-1801 AMP.
- C. Component is different, but consistent with NUREG-1801 item for material, environment, and aging effect. AMP is consistent with NUREG-1801 AMP.



- D. Component is different, but consistent with NUREG-1801 item for material, environment, and aging effect. AMP takes some exceptions to NUREG-1801 AMP.
- E. Consistent with NUREG-1801 for material, environment, and aging effect, but a different AMP is credited.
- F. Material not in NUREG-1801 for this component.
- G. Environment not in NUREG-1801 for this component and material.
- H. Aging effect not in NUREG 1801 for this component, material, and environment combination.
- I. Aging effect in NUREG-1801 for this component, material, and environment combination is not applicable.
- J. Neither the component nor the material and environment combination is evaluated in NUREG-1801.

Plant-specific Notes:

- 501. Although no aging effects have been identified, the specified NUREG-1801 program will be assigned for management of this commodity, in accordance with the NRC's current position (ISG-03).
- 502. The BSEP AMR methodology concluded that aggressive chemical attack is not applicable in the Primary Containment. Inspections performed in accordance with IWL will validate the continued absence of aggressive chemical attack.
- 503. Neither the component nor the AMP is evaluated in NUREG-1801; however, the material, environment, and aging effect are addressed and adequately managed by the Structures Monitoring Program. As such, this component is not consistent with NUREG-1801.
- 504. In accordance with NUREG-1801 recommendations, no aging management is required because the concrete mix design is per ACI 318, with a low water/cement ratio and entrained air between 3 and 6%.
- 505. In accordance with NUREG-1801 recommendations, no aging management is required because concrete aggregates were selected per ASTM C33, which uses ASTM C227 & ASTM C295.
- 506. BSEP does not rely on a de-watering system for control of settlement; the subject structure is older than 25 years and has experienced negligible settlement; as such, this aging effect is not applicable.
- 507. BSEP does not have a porous concrete subfoundation and does not implement a de-watering system; therefore this aging effect is not applicable and no aging management is required.
- 508. The anchorage system, addressed by the NUREG-1801 component, is considered a sub-component of the listed civil commodity group.
- 509. In accordance with NUREG-1801 recommendations, no aging management is required, because no CLB fatigue analysis exists.
- 510. In accordance with NUREG-1801 recommendation, no aging management is required because the concrete is not exposed to an aggressive environment and has been designed in accordance with ACI 318, with a low water/cement ratio and entrained air between 3 and 6%.
- 511. Although NUREG-1801 recommends Regulatory Guide 1.127, "Inspection of Water-Control Structures Associated with Nuclear Power Plants", BSEP utilizes the Structures Monitoring Program.

512. In accordance with NUREG-1801 recommendations, no aging management is required, because the structure is not subject to flowing water and the concrete design ensures a dense, well-cured, low permeability concrete with controlled cracking.
513. In accordance with NUREG-1801 recommendations, no aging management is required because the structure is not subject to general area temperatures > 150 °F or local area temperatures > 200 °F.
514. The correlation of the BSEP PCS with NUREG-1801 is unique within the industry because the BSEP Primary Containment is the only BWR Mark I reinforced concrete containment in the United States. Chapter II of NUREG-1801 provides guidance for a BWR mark I steel containment and for a BWR Mark II concrete containment; however, no guidance is provided for a BWR Mark I reinforced concrete containment. The BSEP containment structure is essentially the same as the NUREG-1801 BWR Mark I steel containment except the BSEP containment is a steel-lined, reinforced concrete structure rather than a free standing steel containment. This difference means the BSEP containment structure looks like a BWR Mark I steel containment, with a Drywell and Torus, but is fabricated from reinforced concrete, like a BWR Mark II concrete containment. The NUREG-1801 description of concrete structures and/or components for Mark II concrete containments is sufficiently generic that the concrete portions of the BSEP containment are considered to be consistent with the concrete portions of the NUREG-1801 Mark II concrete containment. The steel elements for the BSEP containment are consistent with the steel elements described for the NUREG-1801 BWR Mark I Steel Containment. The BSEP containment common components are consistent with the BWR Containment Common Components described in NUREG-1801 Chapter II, Section B4.
515. NUREG-1801 does not provide a category for Augmented Off-Gas Building fire barrier penetration seals.
516. Although the Augmented Off-Gas building is not listed in the Group 3, Class I structures, of NUREG-1801, it is a Class I structure and corresponds to the type of structures listed in Group 3; as such, the Group 3 categorization has been assigned to this building.
517. Groundwater monitoring is performed periodically to validate the below-grade environment is not aggressive.
518. The BSEP AMR methodology concluded that carbon/low alloy steel, completely encased in concrete, has no aging effect.
519. The BSEP AMR methodology concluded that galvanized carbon/low alloy steel, completely encased in concrete, has no aging effect.
520. The BSEP AMR methodology concluded that galvanized carbon/low alloy steel, exposed to weather and not subject to an aggressive environment, has no aging effect.
521. The BSEP AMR methodology concluded that galvanized carbon/low alloy steel, protected from weather, has no aging effect.
522. Based on NUREG-1557, steel piles driven in undisturbed soils have been unaffected by corrosion; and those driven in disturbed soil experience minor to moderate corrosion to a small area of metal. Therefore, no aging effects have been concluded for steel piles.
523. BSEP concrete aggregates were selected per ASTM C33, which uses ASTM C227 & ASTM C295. Inspections performed in accordance with IWL will validate the continued absence of reactions with aggregates.
524. The BSEP AMR methodology concluded that Lubrite slide bearing plates have no aging effects, based on the low cycle service requirements and a review of industry and plant specific operational experience.
525. Aging effects for incombustible mineral fiber boards are not developed in the BSEP AMR methodology. However, the boards are located in a temperature and humidity controlled area; as such, components within that environment are not exposed to the mechanisms and effects required to promote component degradation. Additionally, a review of plant operating experience for the control room area has identified no aging effects associated with mineral fiber boards.
526. The BSEP AMR methodology concluded that aluminum in a Protected from Weather environment has no aging effect.

527. BSEP Primary Containment concrete is not exposed to an aggressive environment and has been designed in accordance with ACI 318, with a low water/cement ratio and entrained air between 3 and 6%. Inspections performed in accordance with IWL will validate the continued absence of visible corrosion of embedded steel.
528. The BSEP AMR methodology concluded that stainless steel exposed to weather and not subject to an aggressive environment, has no aging effect.
529. The BSEP AMR methodology concluded that stainless steel in Indoor Air/Protected from Weather environments and not subject to aggressive chemical attack has no aging effect.
530. Based on the original NRC safety evaluation of the High Density Fuel Storage System, dated December 15, 1983, "no significant corrosion should occur in the spent fuel storage racks at Brunswick Units 1 and 2 for a period well in excess of the 40 years design life of the unit."
531. In accordance with Table 2.1-3 of NUREG-1800, the fuel pool gate seals are tested and replaced on condition per procedure every time the fuel pool gates are removed. Therefore no aging management is required.
532. The BSEP boral plates are sandwiched between the inner and outer wall of the rack tube and are not subject to dislocation, deterioration, or removal; plant specific operating experience and testing results of BSEP boral sample stations have validated the absence of aging effects. As such, no aging management program is required for this commodity.
533. Aging management review of Lubrite slide bearing plates associated with pipe supports is performed within the pipe support commodity group, rather than under the slide bearing plate commodity group. NUREG-1801 identifies loss of mechanical function as an applicable aging effect; however, based on low cycle service requirements and a review of industry and plant specific operational experience, no evidence exists that would indicate this aging effect is relevant.
534. Although the Reactor and Control buildings are not specifically identified in Chapter VII, Section G, Auxiliary Systems, they are sufficiently similar to be considered consistent with the Chapter VII, Section G structure, Auxiliary Building.
535. The AMR methodology concluded that Elastomers could be susceptible to the aging effect of cracking and change of material properties. However, the structural sealants utilized for Electrical Penetrations have been evaluated by the EQ Program as being acceptable for the period of extended operation. Tests performed in accordance with 10 CFR Part 50, Appendix J Program will validate the pressure boundary intended function for Electrical Penetration structural sealants.
536. The bulk average temperature for the BSEP Primary Containment is less than 150 °F; however, trending data for the upper elevations of the Primary Containment have identified a maximum average temperature of 194 °F. Based on an evaluation of Drywell temperatures, the contact temperature at the inside face of the concrete (Drywell side) would be around 175 °F and the contact temperature at the outside face of the concrete (Reactor Building side) would be 107 °F. Because the elevated temperatures are localized to the upper elevation of the Drywell and the actual concrete temperatures are on a gradient through the Drywell wall, the upper elevation of the Drywell is considered a local area, rather than general. As such, the containment concrete elements are not exposed to temperatures which would exceed the thresholds for degradation. These thresholds are consistent with the guidance provided in NUREG-1801 which defines elevated temperatures as greater than 150 °F general and 200 °F local.
537. The BSEP primary containment is completely contained within the Reactor Building, as such, the primary containment is not subject to aging effects associated with a below grade exterior environment.
538. The BSEP coatings program is not relied upon for managing loss of material due to corrosion.

- 539. The AMR methodology concluded that Vent Line Bellows in containment air environment are not susceptible to the aging effect of cracking. The only significant cyclic loads applicable for the Vent Line Bellows were those associated with accident conditions. The number of cyclic loads was determined to be very low and not assumed to increase during the period of extended operation. Nevertheless, the AMP 10 CFR Part 50, Appendix J, would detect cracking should it occur.
- 540. The AMR methodology concluded that the insulation for hot penetrations, in the containment air environment, has no aging effect.
- 541. The AMR methodology concluded that hot and cold penetrations in containment air environment are not susceptible to the aging effect of cracking. Nevertheless, the AMPs of ASME Section XI, Subsection IWE and 10 CFR Part 50, Appendix J would detect cracking should it occur.
- 542. The intended function for the PCS Moisture Barrier is to prevent intrusion of moisture between the inaccessible concrete mat and the Drywell Liner.
- 543. This TLAA is further evaluated in Section 4.6.
- 544. Due to the aggressive environment associated with the Service Water Intake Structure, the subject commodities are considered susceptible to loss of material.
- 545. The BSEP AMR methodology does not predict SCC, based on the absence of temperatures in excess of 140° F.
- 546. The BSEP AMR methodology concluded that carbon steel, protected from weather and exposed to an elevated temperature environment, such as lines that normally operate at high temperature, are in a non-wetted environment and not susceptible to general and pitting corrosion.
- 547. Section 3.7.7 of Technical Specifications requires the spent fuel pool water level to be monitored.
- 548. Technical Specification Surveillance 3.6.1.2.1 requires primary containment air lock leakage rate testing to be performed in accordance with the Primary Containment Leakage Rate Testing Program.