Nine Mile Point
License Renewal Application
Work Split Tables

3.1-46	Bottom Head	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.6-a	3.1.1.A-01	A
3.1-46	Nozzles	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-a	3.1.1.A-01	A, C, 1
3.1-46	Nozzles	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-d	3.1.1.A-01	A, C, 1
3.1-46	Nozzles	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.A1.3-d	3.1.1.A-01	E
3.1-46	Nozzles	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Feedwater Nozzle Program, Fatigue Monitoring Program	IV.A1.3-d	3.1.1.A-01	E
3.1-46	Nozzle Safe Ends	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-a	3.1.1.A-01	C, 2
3.1-47	Nozzle Safe Ends	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Stress Corrosion Cracking Program Water Chemistry Control Program	IV.A1.4-a	3.1.1.A-29	B, D, 3
3.1-47	Nozzle Safe Ends	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.A-01	A, C, 4

3.1-47	Penetrations: · Core Differential Pressure · CRD Stub Tube · Flux Monitor · Instrumentation · Vessel Drain	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.A1.3-a	3.1.1.A-01	C, 54
3.1-47	Penetrations: · Core Differential Pressure · CRD Stub Tube · Flux Monitor · Instrumentation · Vessel Drain	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program		-	M
3.1-48	Penetrations: · Core Differential Pressure · CRD Stub Tube · Flux Monitor · Instrumentation · Vessel Drain	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Penetrations Program, Water Chemistry Control Program	IV.A1.5-a	3.1.1.A-30	B
3.1-48	Penetrations: · Core Differential Pressure · CRD Stub Tube · Flux Monitor · Instrumentation · Vessel Drain	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.5-b	3.1.1.A-01	A
3.1-48	Penetrations: · Core Differential Pressure · CRD Stub Tube · Flux Monitor · Instrumentation · Vessel Drain	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Stress Corrosion Cracking Program, Water Chemistry Control Program	IV.A1.4-a	3.1.1.A-29	D, 5

3.1-48	Penetrations: · Core Differential Pressure · CRD Stub Tube · Flux Monitor · Instrumentation · Vessel Drain	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.A-01	C, 5
3.1-48	Penetrations: · Core Differential Pressure · CRD Stub Tube · Flux Monitor · Instrumentation · Vessel Drain	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Penetrations Program, Water Chemistry Control Program	IV.A1.5-a	3.1.1.A-30	B
3.1-48	Penetrations: · Core Differential Pressure · CRD Stub Tube · Flux Monitor · Instrumentation · Vessel Drain	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.5-b	3.1.1.A-01	A
3.1-49	Support Skirt and Attachment Welds	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			G
3.1-49	Support Skirt and Attachment Welds	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, Temperature ≥ 212°F	Cracking	Fatigue Monitoring Program			G
3.1-49	Support Skirt and Attachment Welds	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, Temperature ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			G

3.1-50	Thermal Sleeves	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.B1.4-b	3.1.1.A-01	C, 6
3.1-50	Thermal Sleeves	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.B1.1-e	3.1.1.A-32	D, 6
3.1-50	Thermal Sleeves	PB, TS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program		-	Q
3.1-50	Thermal Sleeves	TS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.B1.3-b	3.1.1.A-01	A
3.1-50	Thermal Sleeves	TS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.3-a	3.1.1.A-31	B
3.1-51	Top Head	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.1-b	3.1.1.A-01	C, 8

3.1-51	Top Head (Closure Studs and Nuts)	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program			H
3.1-51	Top Head (Closure Studs and Nuts)	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	Reactor Head Closure Studs Program			L
3.1-51	Top Head (Flanges)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.1-b	3.1.1.A-01	A
3.1-52	Top Head (Leak Detection Lines)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.A-01	C, 9
3.1-52	Top Head (Leak Detection Lines)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.A1.1-d	3.1.1.A-08	B
3.1-52	Top Head (Nozzles)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-d	3.1.1.A-01	C, 10

3.1-53	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.1-53	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program			H
3.1-53	Vessel Shell (Flange)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-a	3.1.1.A-01	A
3.1-54	Vessel Shells · Beltline · Lower Shell · Upper Nozzle Shell · Upper RPV Shell	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-a	3.1.1.A-01	A
3.1-54	Vessel Shells · Beltline · Lower Shell · Upper Nozzle Shell · Upper RPV Shell	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-b	3.1.1.A-01	A
3.1-54	Vessel Shells · Beltline · Lower Shell · Upper Nozzle Shell · Upper RPV Shell	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}$n/cm^2. - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-b	3.1.1.A-01	A

3.1-54	Vessel Shells · Beltline · Lower Shell · Upper Nozzle Shell · Upper RPV Shell	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}$n/cm^2. - BWR Reactor Pressure Vessel	Loss of Fracture Toughness	Reactor Vessel Surveillance Program	IV.A1.2-d	3.1.1.A-05	B
3.1-55	Vessel Shell Welds (including attachment welds)	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}$n/cm^2. - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-b	3.1.1.A-01	A
3.1-55	Vessel Shell Welds (including attachment welds)	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}$n/cm^2. - BWR Reactor Pressure Vessel	Loss of Fracture Toughness	Reactor Vessel Surveillance Program	IV.A1.2-d	3.1.1.A-05	B
3.1-55	Vessel Shell Welds (including attachment welds)	PB, SFS	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Vessel ID Attachment Welds Program, BWR Vessel Internals Program, Water Chemistry Control Program	IV.A1.2-e	3.1.1.A-28	E
3.1-55	Vessel Shell Welds (including attachment welds)	PB, SFS	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.A-01	C, 11

3.1-55	Vessel Shell Welds (including attachment welds)	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}$n/cm^2. - BWR Reactor Pressure Vessel	Cracking	BWR Vessel ID Attachment Welds Program, Water Chemistry Control Program	IV.A1.2-e	3.1.1.A-28	B
3.1-55	Vessel Shell Welds (including attachment welds)	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}$n/cm^2. - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.A-01	C, 11
3.1-56	CRD Assemblies (includes drive mechanism and housing)	PB, SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.B1.5-b	3.1.1.A-01	C, 12
3.1-56	CRD Assemblies (includes drive mechanism and housing)	PB, SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.5-c	3.1.1.A-31	B
3.1-56	Control Rod Guide Tubes	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.5-c	3.1.1.A-31	D, 13

3.1-56	Core Plate and Bolts	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-b	3.1.1.A-31	B
3.1-57	Core Shroud	DF, SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence ≥ $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-a	3.1.1.A-31	B
3.1-57	Core Shroud Head Bolts and Collars	SFS	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-f	3.1.1.A-31	D, 14
3.1-57	Core Shroud Head Bolts and Collars	SFS	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.B1.4-b	3.1.1.A-01	C, 14
3.1-57	Core Shroud Head Bolts and Collars	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-b	3.1.1.A-31	B
3.1-57	Core Shroud Head Bolts and Collars	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.B1.1-c	3.1.1.A-01	C, 55
3.1-58	Core Shroud Support Structures · Clamps · Core Plate Spacers · Support Plates · Support Rings · Support Welds ·	SFS	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-f	3.1.1.A-31	B

	Tie Rod Assemblies								
3.1-58	Core Shroud Support Structures · Clamps · Core Plate Spacers · Support Plates · Support Rings · Support Welds · Tie Rod Assemblies	SFS	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.B1.4-b	3.1.1.A-01	C, 16
3.1-58	Core Shroud Support Structures · Clamps · Core Plate Spacers · Support Plates · Support Rings · Support Welds · Tie Rod Assemblies	SFS	Nickel Based Alloys	Treated Water or Steam, High temperature, Neutron Fluence ≥ $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-f	3.1.1.A-31	D, 15

3.1-58	Core Shroud Support Structures · Clamps · Core Plate Spacers · Support Plates · Support Rings · Support Welds · Tie Rod Assemblies	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-b	3.1.1.A-31	D, 56
3.1-58	Core Shroud Support Structures · Clamps · Core Plate Spacers · Support Plates · Support Rings · Support Welds · Tie Rod Assemblies	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.B1.1-c	3.1.1.A-01	C, 56
3.1-59	Core Shroud Support Structures · Clamps · Core Plate Spacers · Support Plates · Support Rings · Support Welds · Tie Rod Assemblies	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence ≥ $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Progra	IV.B1.1-a	3.1.1.A-31	D, 15, 57

3.1-59	Core Spray Lines and Spargers	DF	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.3-a	3.1.1.A-31	B
3.1-59	Core Spray Lines and Spargers	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.3-a	3.1.1.A-31	B
3.1-60	Incore Instrumentation Dry Tubes and Guide Tubes	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence ≥ $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.6-a	3.1.1.A-31	B
3.1-60	Orificed Fuel Support	DF, SFS	Cast Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	None	None			None

3.1-60	Steam Dryer	NSR Functional Support	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.B1.1-c	3.1.1.A-01	C, 17
3.1-60	Steam Dryer	NSR Functional Support	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-a	3.1.1.A-31	D, 17
3.1-61	Top Guides	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence ≥ $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.2-a	3.1.1.A-31	B
3.1-62	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program	IV.C1.3-g	3.1.1.A-01	A
3.1-62	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-e	3.1.1.A-26	E
3.1-62	Condensing Pots	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.A-01	C, 18

3.1-62	Condensing Pots	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 18
3.1-62	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature < 140°F, Low Flow	Cracking, Loss of Material	Water Chemistry Control Program			J
3.1-63	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	B
3.1-63	Temperature Equalizing Columns	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.A-01	C, 18
3.1-63	Temperature Equalizing Columns	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 18
3.1-64	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program			H

3.1-64	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-64	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 19
3.1-64	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.1-65	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program	IV.C1.2-f	3.1.1.A-01	A
3.1-65	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program	IV.C1.3-g	3.1.1.A-01	A
3.1-65	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.2-d	3.1.1.A-26	E

3.1-65	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-e	3.1.1.A-26	E
3.1-65	Flow Elements	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Stress Corrosion Cracking Program, Water Chemistry Control Program	IV.C1.1-f	3.1.1.A-29	D, 20
3.1-65	Flow Elements	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.A-01	C, 20
3.1-66	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature < 140°F, Low Flow, Treated Water or Steam, temperature ≥ 482°F	Cracking, Loss of Material	Water Chemistry Control Program			J
3.1-66	NSR piping, fittings, and equipment (cont'd)	PFASRE	Any	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking, Loss of Material	Water Chemistry Control Program			J
3.1-66	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Stress Corrosion Cracking Program, Water Chemistry Control Program	IV.C1.1-f	3.1.1.A-29	B
3.1-66	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.A-01	A

3.1-67	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	B
3.1-67	Pumps	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.2-a	3.1.1.A-01	A
3.1-67	Pumps	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Stress Corrosion Cracking Program, Water Chemistry Control Program	IV.C1.2-b	3.1.1.A-29	B
3.1-67	Pumps	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Loss of Fracture Toughness	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.2-c	3.1.1.A-23	B
3.1-68	Pump Seal Flanges	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.2-a	3.1.1.A-01	A
3.1-68	Pump Seal Flanges	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program			Q
3.1-68	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control			H, 21

						Program			
3.1-68	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program			H
3.1-69	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.A-29	E
3.1-69	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 49
3.1-69	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.1-69	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Loss of Fracture Toughness	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-b	3.1.1.A-23	B

3.1-70	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 49
3.1-70	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.1-70	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 49
3.1-70	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.1-71	Accumulators	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			P
3.1-71	Accumulators	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None

3.1-71	Accumulators	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 50
3.1-72	Filters	PB	Cast Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 23
3.1-72	Filters	PB	Cast Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow,	Cracking	One-Time Inspection Program, Water Chemistry Control Program			Q
3.1-73	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature ≥ 140°F, but < 212°F. Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking, Loss of Material	Systems Walkdown Program, Water Chemistry Control Program			J
3.1-73	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			H

3.1-74	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	B
3.1-74	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	E, 24
3.1-75	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			H
3.1-75	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.A-29	E, 24
3.1-75	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 49
3.1-76	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Dried Air or Gas	None	None			None

3.1-76	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Selective Leaching of Materials Program, Water Chemistry Control Program			M
3.1-76	Valves	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.1-76	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 49
3.1-77	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.A-29	E, 24
3.1-77	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 49
3.1-78	Bottom Head	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.6-a	3.1.1.B-01	A

3.1-78	Nozzles	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-a	3.1.1.B-01	A
3.1-78	Nozzles	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-d	3.1.1.B-01	A
3.1-78	Nozzles	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-d	3.1.1.B-01	C, 25
3.1-78	Nozzles	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-d	3.1.1.B-01	C, 26
3.1-78	Nozzle Safe Ends	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-a	3.1.1.B-01	C, 27
3.1-78	Nozzle Safe Ends	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-d	3.1.1.B-01	C, 28
3.1-79	Nozzle Safe Ends	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Stress Corrosion Cracking Program, Water Chemistry Control Program	IV.A1.4-a	3.1.1.B-29	D, 52

3.1-79	Nozzle Safe Ends	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.A1.4-a	3.1.1.B-29	E
3.1-79	Nozzle Safe Ends	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.B-01	C, 29
3.1-79	Nozzle Safe Ends	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.A1.4-a	3.1.1.B-29	E
3.1-79	Nozzle Safe Ends	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.B-01	C, 30
3.1-80	Nozzle Thermal Sleeves	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Stress Corrosion Cracking Program, Water Chemistry Control Program	IV.A1.4-a	3.1.1.B-29	D, 53
3.1-80	Nozzle Thermal Sleeves	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.B-01	C, 31
3.1-80	Nozzle Thermal Sleeves	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program			Q

3.1-80	Nozzle Thermal Sleeves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Stress Corrosion Cracking Program, Water Chemistry Control Program	IV.A1.4-a	3.1.1.B-29	D, 53
3.1-80	Nozzle Thermal Sleeves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.B-01	C, 32
3.1-81	Nozzle Thermal Sleeves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program			Q
3.1-81	Penetrations: · Core Differential Pressure and Liquid Control · CRD Stub Tubes · Drain Lines · Incore Instruments · Instrumentation	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-d	3.1.1.B-01	C, 5, 7
3.1-81	Penetrations: · Core Differential Pressure and Liquid Control · CRD Stub Tubes · Drain Lines · Incore Instruments · Instrumentation	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Penetrations Program, Water Chemistry Control Program	IV.A1.5-a	3.1.1.B-30	B

3.1-81	Penetrations: · Core Differential Pressure and Liquid Control · CRD Stub Tubes · Drain Lines · Incore Instruments · Instrumentation	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.5-b	3.1.1.B-01	A
3.1-81	Penetrations: · Core Differential Pressure and Liquid Control · CRD Stub Tubes · Drain Lines · Incore Instruments · Instrumentation	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Penetrations Program, Water Chemistry Control Program	IV.A1.5-a	3.1.1.B-30	B
3.1-81	Penetrations: · Core Differential Pressure and Liquid Control · CRD Stub Tubes · Drain Lines · Incore Instruments · Instrumentation	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.5-b	3.1.1.B-01	A
3.1-82	Support Skirt	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air With Thermal Fatigue	Cracking	Fatigue Monitoring Program	IV.A1.7-a	3.1.1.B-01	A

3.1-82	Support Skirt	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air With Thermal Fatigue	Cracking	Systems Walkdown Program			H
3.1-82	Top Head and Nozzles	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.1-b	3.1.1.B-01	C, 8, 33
3.1-82	Top Head (Closure Studs and Nuts)	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program			G
3.1-82	Top Head (Closure Studs and Nuts)	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	Reactor Head Closure Studs Program			L
3.1-82	Top Head (Flanges)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.1-b	3.1.1.B-01	A
3.1-83	Top Head (Leak Detection Lines)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.1-b	3.1.1.B-01	C, 9

3.1-83	Vessel Shells (Flange)	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-a	3.1.1.B-01	A
3.1-83	Vessel Shells · Lower Intermediate Shell · Lower Shell · Upper Intermediate Shell · Upper Shell	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-a	3.1.1.B-01	A
3.1-83	Vessel Shells · Lower Intermediate Shell · Lower Shell · Upper Intermediate Shell · Upper Shell	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}n/cm^2$. – BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-a	3.1.1.B-01	A
3.1-83	Vessel Shells · Lower Intermediate Shell · Lower Shell · Upper Intermediate Shell · Upper Shell	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}n/cm^2$. – BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-b	3.1.1.B-01	A
3.1-83	Vessel Shells · Lower Intermediate Shell · Lower Shell · Upper Intermediate Shell · Upper Shell	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}n/cm^2$. – BWR Reactor Pressure Vessel	Loss of Fracture Toughness	Reactor Vessel Surveillance Program	IV.A1.2-d	3.1.1.B-05	B

3.1-84	Vessel Welds (including attachment welds)	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Vessel ID Attachment Welds Program, Water Chemistry Control Program	IV.A1.2-e	3.1.1.B-28	D, 34
3.1-84	Vessel Welds (including attachment welds)	PB	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.B-01	C, 34
3.1-84	Vessel Welds (including attachment welds)	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}n/cm^2$. – BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-b	3.1.1.B-01	A
3.1-84	Vessel Welds (including attachment welds)	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}n/cm^2$. – BWR Reactor Pressure Vessel	Loss of Fracture Toughness	Reactor Vessel Surveillance Program	IV.A1.2-d	3.1.1.B-05	B
3.1-84	Vessel Welds (including attachment welds)	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-b	3.1.1.B-01	A

3.1-85	Vessel Welds (including attachment welds)	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.2-b	3.1.1.B-01	C, 11
3.1-85	Vessel Welds (including attachment welds)	SFS	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Vessel ID Attachment Welds Program, Water Chemistry Control Program	IV.A1.2-e	3.1.1.B-28	B
3.1-85	Vessel Welds (including attachment welds)	SFS	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.A1.2-e	3.1.1.B-28	E
3.1-85	Vessel Welds (including attachment welds)	SFS	Nickel Based Alloys	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.B-01	C, 11
3.1-86	Vessel Welds (including attachment welds)	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Vessel ID Attachment Welds Program, Water Chemistry Control Program	IV.A1.2-e	3.1.1.B-28	B
3.1-86	Vessel Welds (including attachment welds)	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.4-b	3.1.1.B-01	C, 11

3.1-87	Access Hole Covers	PB	Nickel Based Alloys	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-f	3.1.1.B-31	D, 35
3.1-87	Access Hole Covers	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.2-a	3.1.1.B-31	D, 35
3.1-87	CRD Assemblies (includes drive mechanism and housing)	PB, SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.B1.5-b	3.1.1.B-01	C, 36
3.1-87	CRD Assemblies (includes drive mechanism and housing)	PB, SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.5-c	3.1.1.B-31	B
3.1-88	Control Rod Guide Tubes	PB, SFS	Cast Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	None	None			None
3.1-88	Control Rod Guide Tubes	PB, SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.5-c	3.1.1.B-31	B

3.1-88	Core Plate, Bolts, and Supports	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-b	3.1.1.B-31	B
3.1-89	Core Shroud	DF, SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence ≥ $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-a	3.1.1.B-31	B
3.1-89	Core Shroud Head Bolts	SFS	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program			F
3.1-89	Core Shroud Head Bolts	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-b	3.1.1.B-31	D, 37
3.1-89	Core Shroud Head Bolts	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.B1.1-c	3.1.1.B-01	C, 37
3.1-90	Core Shroud Support Structures · Bolts · Brackets · Cap Screws · Clamps · Keepers · Restraints · Supports	SFS	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program			J

3.1-90	Core Shroud Support Structures · Bolts · Brackets · Cap Screws · Clamps · Keepers · Restraints · Supports	SFS	Nickel Based Alloys	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}$n/cm^2. – BWR Reactor Pressure Vessel	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-f	3.1.1.B-31	B
3.1-90	Core Shroud Support Structures · Bolts · Brackets · Cap Screws · Clamps · Keepers · Restraints · Supports	SFS	Nickel Based Alloys	Treated Water or Steam, High temperature, Neutron Fluence ≥ $1x10^{17}$n/cm^2. – BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program			F
3.1-90	Core Shroud Support Structures · Bolts · Brackets · Cap Screws · Clamps · Keepers · Restraints · Supports	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-b	3.1.1.B-31	B

3.1-90	Core Shroud Support Structures · Bolts · Brackets · Cap Screws · Clamps · Keepers · Restraints · Supports	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.3-a	3.1.1.B-31	D, 38
3.1-91	Core Spray Lines and Spargers	DF, PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.3-a	3.1.1.B-31	B
3.1-91	Core Spray Lines and Spargers	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.3-a	3.1.1.B-31	B
3.1-91	Differential Pressure Liquid Control Line	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.3-a	3.1.1.B-31	D, 39

3.1-92	Flanges	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-a	3.1.1.B-31	D, 40
3.1-92	Incore Housings	PB, SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.6-a	3.1.1.B-31	B
3.1-92	Incore Instrumentati on Dry Tubes	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.6-a	3.1.1.B-31	B
3.1-93	Jet Pump Assemblies	DF	Cast Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	None	None			None
3.1-93	Jet Pump Assemblies	DF	Nickel Based Alloys	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.4-a	3.1.1.B-31	B
3.1-93	Jet Pump Assemblies	DF	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.4-a	3.1.1.B-31	B

3.1-93	Jet Pump Assemblies	SFS	Cast Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.B1.4-b	3.1.1.B-01	A
3.1-94	Jet Pump Assemblies	SFS	Nickel Based Alloys	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.4-a	3.1.1.B-31	B
3.1-94	Jet Pump Assemblies	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.4-a	3.1.1.B-31	B
3.1-94	Jet Pump Assemblies	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.B1.4-b	3.1.1.B-01	A
3.1-94	Jet Pump Assemblies	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.4-a	3.1.1.B-31	B
3.1-95	Jet Pump Assemblies	TS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.4-a	3.1.1.B-31	B

3.1-95	LPCI Couplings	DF	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-g	3.1.1.B-31	B
3.1-95	Orificed Fuel Supports	DF, SFS	Cast Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence < $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	None	None			None
3.1-96	Peripheral Fuel Supports	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.5-c	3.1.1.B-31	D, 41
3.1-96	Power Range Detector Assemblies	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, High Temperature, Neutron Fluence < $5x10^{20}$ n/cm.^{2}- BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.6-a	3.1.1.B-31	B
3.1-96	Spray Nozzles	DF, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, High Temperature - BWR Reactor Pressure Vessel	Cracking	Fatigue Monitoring Program	IV.A1.3-d	3.1.1.B-01	C, 42
3.1-97	Steam Dryer	NFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.1-a	3.1.1.B-31	D, 17
3.1-97	Steam Dryer	NFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.B1.1-c	3.1.1.B-01	C, 17

3.1-97	Top Guide and Supports	SFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, High temperature, Neutron Fluence ≥ $5x10^{20}$ n/cm^2. – BWR Reactor Vessel Internals	Cracking	BWR Vessel Internals Program, Water Chemistry Control Program	IV.B1.2-a	3.1.1.B-31	B
3.1-98	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program	IV.C1.3-g	3.1.1.B-01	A
3.1-98	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-e	3.1.1.B-26	E
3.1-98	Closure Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program	IV.C1.3-g	3.1.1.B-01	A
3.1-98	Closure Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			H, 43
3.1-98	Closure Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-e	3.1.1.B-26	E

3.1-98	Condensing Chambers	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 44
3.1-99	Piping and Fittings	NFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B
3.1-99	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			H, 45
3.1-99	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B
3.1-100	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			H

3.1-100	Piping and Fittings	PB	Nickel Based Alloys	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			N, 46
3.1-100	Piping and Fittings	PB	Nickel Based Alloys	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-101	Piping and Fittings	PB	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			F
3.1-101	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Cracking	Systems Walkdown Program			G, 47
3.1-101	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			L, 47
3.1-101	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-102	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B
3.1-102	Radiation Collars	RS	Wrought Austenitic Stainless Steel	Air	None	None			None

3.1-102	Restriction Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 48
3.1-103	Vacuum Breakers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-103	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-103	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.B-29	E, 24
3.1-103	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.1-104	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program	IV.C1.2-f	3.1.1.B-01	A
3.1-104	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program	IV.C1.3-g	3.1.1.B-01	A

3.1-104	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.2-d	3.1.1.B-26	E
3.1-104	Closure Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-e	3.1.1.B-26	E
3.1-104	Closure Bolting	PB	Wrought Austenitic Stainless Steel	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program			F
3.1-104	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature < 140°F, Low Flow. Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking, Loss of Material	Water Chemistry Control Program			J
3.1-105	NSR piping, fittings, and equipment (cont'd)	PFASRE	Any	Treated Water or Steam, temperature ≥ 482°F. Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking, Loss of Material	Water Chemistry Control Program			J
3.1-105	Piping and Fittings	PB	Nickel Based Alloys	Treated Water, temperature < 140°F, Low Flow	None	None			None

3.1-105	Piping and Fittings	PB	Nickel Based Alloys	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	None	None			None
3.1-106	Piping and Fittings	PB	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			F
3.1-106	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Hydraulic Fluid	None	None			None
3.1-106	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-106	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B
3.1-107	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.C1.1-f	3.1.1.B-29	E
3.1-107	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.B-01	A

3.1-107	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B
3.1-108	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B
3.1-108	Pumps	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.2-a	3.1.1.B-01	A
3.1-108	Pumps	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.C1.2-b	3.1.1.B-29	E
3.1-108	Pumps	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Loss of Fracture Toughness	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.2-c	3.1.1.B-23	B
3.1-109	Pumps	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.2-a	3.1.1.B-01	A

3.1-109	Pumps	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program			F
3.1-109	Radiation Collars	RS	Wrought Austenitic Stainless Steel	Air	None	None			None
3.1-109	Restriction Orifices	FR, PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-109	Restriction Orifices	FR, PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 48
3.1-110	Restriction Orifices (cont'd)	FR, PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 48
3.1-110	Seal Coolers	HT, PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program, Water Chemistry Control Program			Q
3.1-110	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None

3.1-110	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.B-29	E, 24
3.1-111	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.B-29	E
3.1-111	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.1-111	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Loss of Fracture Toughness	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-b	3.1.1.B-23	B
3.1-111	Valves	PB	Wrought Austenitic Stainless Steel	Hydraulic Fluid	None	None			None
3.1-111	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-111	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.B-29	E, 24
3.1-112	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.B-29	E

3.1-112	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.B-29	E, 24
3.1-112	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.1-112	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 49
3.1-113	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.B-29	E, 24
3.1-113	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.1-114	Accumulators	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.1-114	Accumulators	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥212°F, but < 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 50

3.1-114	Accumulators	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥212°F, but < 482°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			Q
3.1-115	CRD Hydraulic Control Units	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 51
3.1-115	CRD Hydraulic Control Units	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			Q
3.1-115	Filters	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program			Q
3.1-116	Filters	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-116	Flow Elements	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None

3.1-116	Flow Indicators	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-116	Flow Orifices	FR, PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-117	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature < 140°F, Low Flow . Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking, Loss of Material	Water Chemistry Control Program			J
3.1-117	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			H, 22
3.1-118	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program			H, 24

3.1-118	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B
3.1-118	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			H, 22
3.1-119	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program			H, 24
3.1-119	Piping and Fittings	PB	Copper Alloys (Zinc ≤ 15%)	Air	None	None			None
3.1-119	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.1-119	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	E, 24

3.1-119	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program			H
3.1-120	Rupture Discs	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.1-120	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program			H, 24
3.1-120	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.1-120	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			H, 22
3.1-120	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program			H, 24
3.1-121	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None

3.1-121	Valves	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.1-121	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2.36	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.A-10	C, 22
3.2.36	Bolting	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.2-36	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	D, 1
3.2-36	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.5-a	3.2.1.A-03	D, 1
3.2-36	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Open-Cycle Cooling Water System Program	V.D2.5-a	3.2.1.A-03	C, 1
3.2-36	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	C, 1

3.2-37	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			Q
3.2-37	Filters/Strainers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-37	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	D, 2
3.2-38	Flow Elements	PB	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Cracking	Open-Cycle Cooling Water System Program			P
3.2-38	Flow Elements	PB	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	C, 2
3.2-38	Flow Orifices	FR, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program	V.D2.5-a	3.2.1.A-03	B

3.2-38	Flow Orifices	FR, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Open-Cycle Cooling Water System Program	V.D2.5-a	3.2.1.A-03	A
3.2-38	Flow Orifices	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program	V.D2.5-a	3.2.1.A-03	B
3.2-39	Heat Exchangers	HT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program	V.D2.1-e	3.2.1.A-03	D, 3
3.2-39	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	D, 3
3.2-39	Nozzles	PB	Cast Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program	V.D2.1-e	3.2.1.A-05	D, 26

3.2-40	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.A-10	A, 4
3.2-40	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program	V.D2.5-a	3.2.1.A-03	B
3.2-40	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program	VII.C1.1-a	3.3.1.A-17	E
3.2-40	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	V.D2.1-a	3.2.1.A-02, 3.2.1.A-04	E, 5
3.2-41	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.5-a	3.3.1.A-17	A

3.2-41	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	V.D2.2-a	3.2.1.A-02, 3.2.1.A-04	B
3.2-41	Pumps	PB	Gray Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program, Selective Leaching of Materials Program			F
3.2-41	Pumps	PB	Gray Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	VII.C2.3-a	3.3.1.A-15	E
3.2-41	Pumps	PB	Gray Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	Selective Leaching of Materials Program	VII.C2.3-a	3.3.1.A-29	A
3.2-42	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	C, 6
3.2-42	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Open-Cycle Cooling Water System Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	C, 6

3.2-42	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	A
3.2-42	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-b	3.2.1.A-02, 3.2.1.A-04	B
3.2-42	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-b	3.2.1.A-02, 3.2.1.A-04	E, 5
3.2-43	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Open-Cycle Cooling Water System Program			K
3.2-43	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	A
3.2-43	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program, Selective Leaching of Materials Program	VII.C1.2-a	3.3.1.A-17, 3.3.1.A-29	A

3.2-43	Valves	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Open-Cycle Cooling Water System Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	C, 6
3.2-43	Valves	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	C, 6
3.2-43	Valves	PB	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Cracking	Open-Cycle Cooling Water System Program			H
3.2-43	Valves	PB	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	A
3.2-43	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-44	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.A-10	C, 22
3.2-44	Bolting	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.2-44	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	C, 1

3.2-44	Filters/Strainers	PB	Wrought Austenitic Stainless Steel	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program			Q
3.2-44	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	C, 2
3.2-45	Flow Orifices	FR, PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.A-03	C, 7
3.2-45	Flow Orifices	FR, PB	Wrought Austenitic Stainless Steel	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program			Q
3.2-45	Flow Orifices	FR, PB	Wrought Austenitic Stainless Steel	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program			Q
3.2-45	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Lubricating Oil	None	None			None

3.2-45	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Heat Transfer	Preventative Maintenance Program	VII.C1.3-b	3.3.1.A-17	E
3.2-45	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	Selective Leaching of Materials Program	VII.C1.3-a	3.3.1.A-29	A
3.2-46	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.A-10	A, 4
3.2-46	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	A
3.2-46	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	V.D2.1-a	3.2.1.A-02	B
3.2-46	Piping and Fittings	PB	Gray Cast Iron	Air	Loss of Material	Systems Walkdown Program			K, 8
3.2-46	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.A-05	A

3.2-46	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	V.D2.1-c	3.2.1.A-16	E
3.2-47	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	C, 9
3.2-47	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	V.D2.2-a	3.2.1.A-02	B
3.2-47	Pumps	PB	Gray Cast Iron	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program, Selective Leaching of Materials Program, Water Chemistry Control Program			F
3.2-47	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	D, 6
3.2-47	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	C, 6

3.2-48	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.2-48	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-b	3.2.1.A-02	B
3.2-48	Valves	PB	Cast Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	V.D2.1-e	3.2.1.A-05	D, 6
3.2-48	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 5, 6
3.2-49	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	V.D2.3-c	3.2.1.A-16	E

3.2-49	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 5, 6
3.2-49	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.A-01	C, 6
3.2-49	Valves	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.A-05	C, 6
3.2-50	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 5, 6
3.2-50	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-c	3.2.1.A-16	E, 10

3.2-50	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 5, 6
3.2-51	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.A-01	C, 6
3.2-52	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program			G
3.2-52	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			G
3.2-52	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Preventive Maintenance Program, Water Chemistry Control Program	IV.C1.4-a	3.1.1.A-09	E, 16
3.2-52	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Preventive Maintenance Program, Water Chemistry Control Program	IV.C1.4-a	3.1.1.A-09	E, 16

3.2-52	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature ≥ 140°F	Cracking	Preventive Maintenance Program			G
3.2-52	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Preventive Maintenance Program			G
3.2-53	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Treated Water, Temperature ≥ 140°F, but < 212°F	Cracking	Preventive Maintenance Program, Water Chemistry Control Program	IV.C1.4-a	3.1.1.A-09	E, 16
3.2-53	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Preventive Maintenance Program, Water Chemistry Control Program	IV.C1.4-a	3.1.1.A-09	E, 16
3.2-53	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Preventive Maintenance Program, Water Chemistry Control Program	IV.C1.4-a	3.1.1.A-09	E, 16
3.2-53	Level Gauges	PB	Glass	Treated Water, temperature < 140°F, Low Flow	None	None			None

3.2-54	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature <140°F. Treated Water, temperature < 140°F, Low Flow. Treated Water, temperature ≥ 140°F, but < 212°F. Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking, Loss of Material	Systems Walkdown Program, Water Chemistry Control Program			J
3.2-55	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking, Loss of Material	Flow-Accelerated Corrosion Program, Systems Walkdown Program, Water Chemistry Control Program			J, 25
3.2-56	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.A-10	A, 4
3.2-56	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	A

3.2-56	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.A-01	A
3.2-56	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	V.D.2.3-a	3.2.1.A-14	C, 11
3.2-56	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.A-01	A
3.2-56	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	V.D2.1-a	3.2.1.A-02, 3.2.1.A-04	B
32.-57	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
32.-57	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, Temperature ≥ 140°F, but < 212°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	V.D2.1-c	3.2.1.A-16	E, 12

32.-57	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.A-01	A
32.-57	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	V.D2.1-c	3.2.1.A-16	E
32.-57	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.C1.1-f	3.1.1.A-29	E
32.-57	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.2.1.A-01	A
3.2-58	Tanks	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Treated Water, temperature < 140°F	None	None			None

3.2-58	Valves	PB	Aluminum alloys containing copper or zinc as the primary alloying elements	Treated Water, temperature < 140°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program			F
3.2-59	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program	V.D2.1-e	3.2.1.A-03, 3.2.1.A-05	D, 6
3.2-59	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-b	3.2.1.A-02	E
3.2-60	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-b	3.2.1.A-02	E

3.2-60	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 6
3.2-60	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.A-01	C, 6
3.2-60	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	V.D2.3-a	3.2.1.A-14	A
3.2-61	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.A-01	C, 6
3.2-61	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-b	3.2.1.A-02	B

3.2-61	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 6
3.2-61	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	V.D2.3-a	3.2.1.A-14	A
3.2-62	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 6
3.2-62	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-b	3.2.1.A-02, 3.2.1.A-04	E
3.2-63	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None

3.2-63	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 6
3.2-63	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.A-01	C, 6
3.2-63	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	V.D2.3-c	3.2.1.A-16	E
3.2-63	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Loss of Fracture Toughness	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-b	3.1.1.A-23	B
3.2-64	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.2-64	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None

3.2-64	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 6
3.2-64	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.A-01	C, 6
3.2-64	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	V.D2.3-c	3.2.1.A-16	E
3.2-65	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 6
3.2-65	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.A-01	C, 6

3.2-65	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	V.D2.3-c	3.2.1.A-16	E, 5
3.2-66	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 6
3.2-67	Blowers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.B.1-a	3.2.1.B-03	C, 13
3.2-67	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Systems Walkdown Program			G
3.2-67	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Systems Walkdown Program			K
3.2-67	Filters/Strainers	PB	Cast Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.B-05	C, 1

3.2-67	Filters/Strainers	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.B-05	C, 1
3.2-68	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.B.1-a	3.2.1.B-03	C, 2
3.2-68	Hydrogen Recombiners	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.B-05	C, 14
3.2-68	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.B-03	A
3.2-68	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.B-05	A
3.2-69	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.B.1-a	3.2.1.B-03	C, 6
3.2-69	Valves	PB	Cast Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.B-05	C, 6

3.2-69	Valves	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.B-05	C, 6
3.2-70	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Systems Walkdown Program			G
3.2-70	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program			G
3.2-70	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			G
3.2-70	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Systems Walkdown Program			K
3.2-71	Bolting (cont'd)	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program Fatigue Monitoring Program			K

3.2-71	Bolting (cont'd)	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			K
3.2-71	Filter/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-b	3.2.1.B-02	D, 1
3.2-71	Filter/Strainers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.2-72	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D, 2
3.2-72	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature < 140°F, Low Flow	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program		-	J
3.2-72	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.B-10	A, 4
3.2-72	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.B-10	A, 4

3.2-73	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Program	V.D2.1-a	3.2.1.B-02	B
3.2-73	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	A
3.2-73	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Program	V.D2.1-a	3.2.1.B-02	B
3.2-73	Piping and Fittings (cont'd)	PB	Nickel Based Alloys	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.2-73	Piping and Fittings (cont'd)	PB	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program		-	F
3.2-73	Piping and Fittings (cont'd)	PB	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program Water Chemistry Control Program		-	F
3.2-74	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Systems Walkdown Program			M, 15
3.2-74	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature ≥ 140°F	Cracking	Systems Walkdown Program			M, 15

3.2-74	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			F, 15
3.2-74	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-74	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	A
3.2-74	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-c	3.2.1.B-16	E, 10
3.2-75	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.2-a	3.2.1.B-02	B
3.2-75	Pumps	PB	Cast Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-75	Restriction Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 7
3.2-75	Restriction Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program Water Chemistry Control Program			Q

3.2-75	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-b	3.2.1.B-02	B
3.2-76	Valves (cont'd)	Valves (cont'd)	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6
3.2-76	Valves (cont'd)	Valves (cont'd)	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-b	3.2.1.B-02	B
3.2-76	Valves (cont'd)	Valves (cont'd)	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-76	Valves (cont'd)	Valves (cont'd)	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6
3.2-76	Valves (cont'd)	Valves (cont'd)	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-c	3.2.1.B-16	E, 10
3.2-77	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program			G

3.2-77	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			G
3.2-77	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			K
3.2-77	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			K
3.2-77	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D, 1
3.2-78	Filters/Strainers (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-78	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D, 2

3.2-78	Flow Elements	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-79	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature <140°F Treated Water, temperature < 140°F, Low Flow Treated Water, temperature ≥ 140°F, but < 212°F Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program			J
3.2-80	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.B-10	A, 4
3.2-80	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	B
3.2-80	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, Temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	B

3.2-80	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	A
3.2-80	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	B
3.2-81	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature ≥ 140°F	Cracking	Systems Walkdown Program			M, 15
3.2-81	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			F, 15
3.2-81	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.2-81	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-81	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.2-a	3.2.1.B-02	B
3.2-81	Pumps	PB	Cast Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-82	Restriction Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None

3.2-82	Restriction Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water, Temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program Water Chemistry Control Program			Q
3.2-82	Restriction Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 7
3.2-82	Restriction Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program			Q
3.2-83	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Program	V.D2.3-b	3.2.1.B-02	B
3.2-83	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-b	3.2.1.B-02	B
3.2-83	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6
3.2-83	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	V.D2.3-a	3.2.1.B-14	A
3.2-84	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None

3.2-84	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-84	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, Temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-c	3.2.1.B-16	E, 10
3.2-84	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6
3.2-84	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-c	3.2.1.B-16	E, 10
3.2-85	Blower	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	V.D2.5-a	3.2.1.B-03	C, 18
3.2-85	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air with Moisture or Wetting, temperature ≥ 140°F	Cracking	Systems Walkdown Program			G
3.2-85	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			G
3.2-85	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program			G

3.2-85	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			G
3.2-85	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air with Moisture or Wetting, temperature ≥ 140°F	Cracking	Systems Walkdown Program			K
3.2-85	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			K
3.2-86	Bolting (cont'd)	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program Fatigue Monitoring Program			K
3.2-86	Bolting (cont'd)	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			K
3.2-86	Condensing Chambers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.2-86	Condensing Chambers	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 17

3.2-86	Condensing Chambers	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program			Q
3.2-87	Drain Pots	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 19
3.2-87	Drain Pots	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D, 19
3.2-87	Drain Pots	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 19
3.2-87	Drain Pots	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D, 19
3.2-87	Filters/Strainers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 1
3.2-87	Filters/Strainers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	V.D2.3-a	3.2.1.B-14	C, 1
3.2-87	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D 1

3.2-88	Filters/Strainers (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.2-88	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D, 2
3.2-88	Heat Exchangers	HT PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.2-88	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.2-88	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature < 140°F	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program			J
3.2-89	NSR piping, fittings, and equipment (cont'd)	PFASRE	Any	Treated Water or Steam, temperature ≥ 212°F, but < 482°F Treated Water or Steam, temperature ≥ 482°F	Cracking	Flow-Accelerated Corrosion Program Systems Walkdown Program Water Chemistry Control Program			J, 25
3.2-89	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	B
3.2-89	Piping and Fittings	NFS	Polymers	Treated Water, temperature < 140°F	Cracking	Preventive Maintenance Program			F

3.2-89	Piping and Fittings	NFS	Polymers	Treated Water, temperature < 140°F	Loss of Strength	Preventive Maintenance Program			F
3.2-90	Piping and Fittings (cont'd)	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.2-90	Piping and Fittings (cont'd)	NFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	A
3.2-90	Piping and Fittings (cont'd)	NFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F		One-Time Inspection Program Water Chemistry Control Program	V.D2.1-c	3.2.1.B-16	E, 10
3.2-90	Piping and Fittings (cont'd)	NFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	A
3.2-90	Piping and Fittings (cont'd)	NFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-c	3.2.1.B-16	E, 10
3.2-91	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.B-10	A, 4
3.2-91	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	B

3.2-91	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	A
3.2-91	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	V.D2.3-a	3.2.1.B-14	C, 11
3.2-91	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	A
3.2-91	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	V.D2.3-a	3.2.1.B-14	C, 11
3.2-91	Piping and Fittings (cont'd)	PB	Nickel Based Alloys	Treated Water, temperature < 140°F	None	None			None
3.2-91	Piping and Fittings (cont'd)	PB	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program			F
3.2-92	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature ≥ 140°F	Cracking	Systems Walkdown Program			M, 15
3.2-92	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			F, 15
3.2-92	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None

3.2-92	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	A
3.2-92	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program Water Chemistry Control Program	V.D2.1-c	3.2.1.B-16	E
3.2-92	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F		One-Time Inspection Program Water Chemistry Control Program	V.D2.1-c	3.2.1.B-16	E, 10
3.2-93	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	A
3.2-93	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-c	3.2.1.B-16	E, 10
3.2-93	Pumps	PB	Cast Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.2-93	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.2-a	3.2.1.B-02	B

3.2-93	Restriction Orifices	NFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 7
3.2-93	Restriction Orifices	NFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program			Q
3.2-94	Restriction Orifices (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.2-94	Restriction Orifices (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 7
3.2-94	Restriction Orifices (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program			Q
3.2-94	Restriction Orifices (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 7
3.2-94	Restriction Orifices (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program			Q
3.2-94	Rupture Discs	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None

3.2-94	Terry Turbine	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-b	3.2.1.B-02	D, 20
3.2-95	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-b	3.2.1.B-02	B
3.2-95	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6
3.2-95	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	V.D2.3-a	3.2.1.B-14	A
3.2-95	Valves	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.2-95	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-b	3.2.1.B-02	B
3.2-95	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6
3.2-95	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	V.D2.3-a	3.2.1.B-14	A

3.2-95	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6
3.2-95	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	V.D2.3-a	3.2.1.B-14	A
3.2-96	Valves (cont'd)	PB	Cast Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.2-96	Valves (cont'd)	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6
3.2-96	Valves (cont'd)	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-c	3.2.1.B-16	E, 10
3.2-96	Valves (cont'd)	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Loss of Fracture Toughness	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-b	3.1.1.B-23	B
3.2-96	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.2-96	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6

3.2-96	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-c	3.2.1.B-16	E, 10
3.2-97	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6
3.2-97	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-c	3.2.1.B-16	E, 10
3.2-98	"T" Quenchers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-98	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air with Moisture or Wetting, temperature ≥ 140°F	Cracking	Systems Walkdown Program			G
3.2-98	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			G
3.2-98	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program			G

3.2-98	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI, Subsections IWB, IWC, & IWD, Inservice Inspection Program			G
3.2-98	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air with Moisture or Wetting, temperature ≥ 140°F	Cracking	Systems Walkdown Program			K
3.2-98	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			K
3.2-99	Bolting (cont'd)	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program ASME Section XI, Subsections IWB, IWC, & IWD, Inservice Inspection Program			K
3.2-99	Bolting (cont'd)	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI, Subsections IWB, IWC, & IWD, Inservice Inspection Program			K
3.2-99	Condensing Chambers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-100	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D, 1

3.2-100	Filters/Strainers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-100	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D, 2
3.2-100	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Cracking	Open-Cycle Cooling Water System Program			H
3.2-100	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Loss of Heat Transfer	Open-Cycle Cooling Water System Program	V.D2.4-b	3.2.1.B-12	A
3.2-100	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	V.D2.4-a	3.2.1.B-12	A
3.2-101	Heat Exchangers (cont'd)	HT PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-101	Heat Exchangers (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	V.D2.4-a	3.2.1.B-12	A
3.2-101	Heat Exchangers (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-b	3.2.1.B-02	D, 3
3.2-101	Level Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D, 23

3.2-101	NSR piping, fittings, and equipment	PFASR E	Any	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program			J
3.2-102	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.B-10	A, 4
3.2-102	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	B
3.2-102	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	B
3.2-102	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	A
3.2-102	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	B
3.2-103	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature ≥ 140°F	Cracking	Systems Walkdown Program			M, 15
3.2-103	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			F, 15

3.2-103	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-103	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	A
3.2-103	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel			ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program Water Chemistry Control Program	V.D2.1-c	3.2.1.B-16	E
3.2-103	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.2-a	3.2.1.B-02	B
3.2-104	Pumps	PB	Cast Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-104	Restriction Orifices	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D, 7
3.2-104	Restriction Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-104	Restriction Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 7

3.2-104	Restriction Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program Water Chemistry Control Program			Q
3.2-105	Temperature Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	D, 24
3.2-105	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-b	3.2.1.B-02	B
3.2-105	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6
3.2-105	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-b	3.2.1.B-02	B
3.2-105	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.2-106	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None

3.2-106	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D2.1-b	3.2.1.B-01	C, 6
3.2-106	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-c	3.2.1.B-16	E, 10
3.2-107	Blower	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.B.1-a	3.2.1.B-03	C, 21
3.2-107	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Systems Walkdown Program			G
3.2-107	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	Systems Walkdown Program			K
3.2-107	Filters/Strainers	FLT PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.B.2-a	3.2.1.B-03	A
3.2-108	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.B.1-a	3.2.1.B-03	C, 2
3.2-108	Heaters	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program			Q

3.2-108	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.B-10	A, 4
3.2-108	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.B.1-a	3.2.1.B-03	C, 11
3.2-108	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program			J
3.2-108	Restriction Orifices	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program			J
3.2-109	Tanks	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program			J
3.2-109	Valves	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program			J
3.2-109	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program	V.B.1-a	3.2.1.B-03	C, 6
3.2-110	Valves (cont'd)	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Air with Moisture or Wetting, temperature < 140°F	None	None			None

3.2-110	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Air with Moisture or Wetting, temperature < 140°F	Loss of Material	One-Time Inspection Program			J
3.3-102	Circulating Water Gates	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.6-a	3.3.1.A-17	C, 8
3.3-102	Traveling Screens and Rakes	FLT	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Open-Cycle Cooling Water System Program			G
3.3-102	Traveling Screens and Rakes	FLT	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.6-a	3.3.1.A-17	C, 8
3.3-102	Traveling Screens and Rakes	FLT	Polymers	Raw Water	Cracking	Open-Cycle Cooling Water System Program			F
3.3-102	Traveling Screens and Rakes	FLT	Polymers	Raw Water	Loss of Strength	Open-Cycle Cooling Water System Program			F
3.3-102	Traveling Screens and Rakes	FLT	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Open-Cycle Cooling Water System Program			H

3.3-102	Traveling Screens and Rakes	FLT	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.6-a	3.3.1.A-17	C, 8
3.3-103	NSR piping, fittings, and equipment	PFASRE	Any	Demineralized Untreated Water	Cracking, Loss of Material	Systems Walkdown Program			J
3.3-104	Air Dryers · Couplings · Flanges · Heads · Nozzles · Piping	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Compressed Air Monitoring Program	VII.D.6-a	3.3.1.A-19	A
3.3-104	Air Receivers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Compressed Air Monitoring Program	VII.D.3-a	3.3.1.A-19	A
3.3-104	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	C, 14
3.3-104	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	VII.D.1-a	3.3.1.A-19	E
3.3-105	Drain Traps	PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water, Low Flow	Loss of Material	Compressed Air Monitoring Program			K

3.3-105	Drain Traps	PB	Gray Cast Iron	Air	Loss of Material	Compressed Air Monitoring Program			F
3.3-105	Drain Traps	PB	Gray Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Compressed Air Monitoring Program, Selective Leaching of Materials Program			K
3.3-105	Filters/Strainers	FLT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-105	Filters/Strainers	FLT, PB	Copper Alloys (Zinc ≤ 15%)	Dried Air or Gas	None	None			None
3.3-105	Filters/Strainers	FLT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Air	None	None			None
3.3-106	Filters/Strainers	FLT	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-106	Filters/Strainers	FLT	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None

3.3-106	Filters/Strainers	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water, Low Flow	Loss of Material	Compressed Air Monitoring Program			K
3.3-106	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Air	Loss of Heat Transfer	Compressed Air Monitoring Program			J, 9
3.3-106	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Demineralized Untreated Water	Loss of Heat Transfer	Compressed Air Monitoring Program			J
3.3-106	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Demineralized Untreated Water	Loss of Material	Compressed Air Monitoring Program, Selective Leaching of Materials Program			J
3.3-106	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Demineralized Untreated Water, Low Flow	Loss of Heat Transfer	Compressed Air Monitoring Program			J
3.3-106	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Demineralized Untreated Water, Low Flow	Loss of Material	Compressed Air Monitoring Program, Selective Leaching of Materials Program			J
3.3-107	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Compressed Air Monitoring Program	VII.D.1-a	3.3.1.A-19	C, 6

3.3-107	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Compressed Air Monitoring Program			J
3.3-107	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Compressed Air Monitoring Program			J
3.3-107	Heat Exchangers	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Air	None	None			None
3.3-107	Heat Exchangers	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Demineralized Untreated Water, Low Flow	Loss of Material	Compressed Air Monitoring Program, Selective Leaching of Materials Program			J
3.3-107	Heat Exchangers	PB	Gray Cast Iron	Air	Loss of Material	Compressed Air Monitoring Program			J
3.3-107	Heat Exchangers	PB	Gray Cast Iron	Demineralized Untreated Water	Loss of Material	Compressed Air Monitoring Program, Selective Leaching of Materials Program			J
3.3-108	Orifices	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Compressed Air Monitoring Program	VII.D.1-a	3.3.1.A-19	C, 7

3.3-108	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Compressed Air Monitoring Program	VII.D.1-a	3.3.1.A-19	A
3.3-108	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3
3.3-108	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Compressed Air Monitoring Program			G
3.3-108	Piping and Fittings	PB	Copper Alloys (Zinc ≤ 15%)	Air	None	None			None
3.3-108	Piping and Fittings	PB	Copper Alloys (Zinc ≤ 15%)	Dried Air or Gas	None	None			None
3.3-108	Piping and Fittings	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Air	None	None			None
3.3-109	Piping and Fittings	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None			None

3.3-109	Piping and Fittings	PB	Red Brass - Cold Worked	Air	Cracking	Compressed Air Monitoring Program			M
3.3-109	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-109	Piping and Fittings	PB	Various Metallic Materials	Dried Air or Gas	None	None			None
3.3-109	Regulators	PB	Aluminum alloys containing copper or zinc as the primary alloying elements	Dried Air or Gas	None	None			None
3.3-109	Regulators	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-110	Regulators	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Dried Air or Gas	None	None			None
3.3-110	Regulators	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Dried Air or Gas	None	None			None

3.3-110	Regulators	PB	Various Metallic Materials	Dried Air or Gas	None	None			None
3.3-110	Separators	FLT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Compressed Air Monitoring Program	VII.D.5-a	3.3.1.A-19	A
3.3-110	Separators	FLT, PB	Gray Cast Iron	Air	Loss of Material	Compressed Air Monitoring Program			F
3.3-110	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Compressed Air Monitoring Program	VII.D.2-a	3.3.1.A-19	A
3.3-110	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-111	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Air	None	None			None
3.3-111	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Dried Air or Gas	None	None			None

3.3-111	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water, Low Flow	Loss of Material	Compressed Air Monitoring Program			K
3.3-111	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Air	None	None			None
3.3-111	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Dried Air or Gas	None	None			None
3.3-111	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Demineralized Untreated Water, Low Flow	Loss of Material	Compressed Air Monitoring Program, Selective Leaching of Materials Program			K
3.3-111	Valves	PB	Gray Cast Iron	Air	Loss of Material	Compressed Air Monitoring Program			F
3.3-111	Valves	PB	Polymers	Air	Cracking	Compressed Air Monitoring Program			M
3.3-111	Valves	PB	Polymers	Air	Hardening and Shrinkage	Compressed Air Monitoring Program			M

3.3-111	Valves	PB	Polymers	Air	Loss of Strength	Compressed Air Monitoring Program			M
3.3-112	Valves	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Dried Air or Gas	None	None			None
3.3-112	Valves	PB	Various Metallic Materials	Dried Air or Gas	None	None			None
3.3-112	Valves	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-112	Valves	PB		Dried Air or Gas	None	None			None
3.3-113	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	C, 5
3.3-113	Ducting	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None			None

3.3-113	Filters/Strainers	FLT, PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-113	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.F3.4-a	3.3.1.A-05	A
3.3-113	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-113	Filters/Strainers	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-114	Flame Arresters	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-114	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-114	Flow Elements	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None

3.3-114	Heat Exchangers	HT, PB	Copper Alloys (Zinc ≤ 15%)	Air	Loss of Heat Transfer	One-Time Inspection Program			H, 9
3.3-114	Heat Exchangers	HT, PB	Copper Alloys (Zinc ≤ 15%)	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			H, 9
3.3-114	Heat Exchangers	HT, PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			L, 9
3.3-115	Heat Exchangers	PB	Copper Alloys (Zinc ≤ 15%)	Air, Moisture or Wetting, temperature ≥ 140°F	None	None			None
3.3-115	Heat Exchangers	PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water	None	None			None
3.3-115	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Cracking	Closed-Cycle Cooling Water System Program			K
3.3-115	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.F3.4-a	3.3.1.A-05	D, 6

3.3-115	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-115	Pumps	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-115	Rupture Discs	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-116	Rupture Discs		Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-116	Tanks	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-116	Traps	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-116	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program	VII.F3.4-a	3.3.1.A-05	C, 2

3.3-116	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.F3.4-a	3.3.1.A-05	C, 2
3.3-116	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3
3.3-116	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Preventive Maintenance Program	VII.F3.4-a	3.3.1.A-05	C, 2
3.3-116	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-116	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Preventive Maintenance Program			J
3.3-117	Valves	PB	Cast Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-117	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Dried Air or Gas	None	None			None

3.3-117	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Dried Air or Gas	None	None			None
3.3-117	Valves	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Dried Air or Gas	None	None			None
3.3-117	Valves	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-117	Valves	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-117	Valves	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water, Low Flow	Loss of Material	Preventive Maintenance Program			J
3.3-117	Vaporizers	HT, PB	Copper Alloys (Zinc ≤ 15%)	Air	Loss of Heat Transfer	One-Time Inspection Program			P
3.3-117	Vaporizers	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None

3.3-118	Blowers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.A-05	A
3.3-118		PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.A-05	A
3.3-118	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	VII.F1.1-a	3.3.1.A-05	A
3.3-118	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.A-05	A
3.3-119	Expansion Tank	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program			Q
3.3-119	Filters/Strainers	FLT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.4-a	3.3.1.A-05	A
3.3-119	Filters/Strainers	FLT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			G

3.3-119	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			J
3.3-119	Heat Exchangers	HT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Closed-Cycle Cooling Water System Program	VII.F1.4-a	3.3.1.A-05	D, 6
3.3-119	Heat Exchangers	HT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-120	Heat Exchangers	HT, PB	Copper Alloys (Zinc ≤ 15%)	Air	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			H, 9
3.3-120	Heat Exchangers	HT, PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			L, 9
3.3-120	Heat Exchangers	HT, PB	Copper Alloys (Zinc ≤ 15%)	Dried Air or Gas	None	None			None
3.3-120	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			L, 9

3.3-120	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-120	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			K
3.3-120	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-120	Heat Exchangers	PB	Copper Alloys (Zinc ≤ 15%)	Air	None	None			None
3.3-120	Heat Exchangers	PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water	None	None			None
3.3-121	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.A-05	C, 10
3.3-121	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3

3.3-121	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-121	Pumps	PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water	None	None			None
3.3-121	Temperature Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.A-05	C, 17
3.3-121	Valves and Dampers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.A-05	A, 23
3.3-122	Valves and Dampers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.A-05	A, 23
3.3-122	Valves and Dampers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.A-05	C, 2
3.3-122	Valves and Dampers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			G

3.3-122	Valves and Dampers	PB	Cast Austenitic Stainless Steel	Demineralized Untreated Water	None	None			None
3.3-122	Valves and Dampers	PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water	None	None			None
3.3-122	Valves and Dampers	PB	Gray Cast Iron	Air	Loss of Material	One-Time Inspection Program			F
3.3-122	Valves and Dampers	PB	Gray Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program, Selective Leaching of Materials Program			K
3.3-123	Blower	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.F4.1-a	3.3.1.A-05	A
3.3-124	Air Intakes	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.3-a	3.3.1.A-05	A
3.3-124	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	C, 5

3.3-124	Exhausts for Emergency Diesel Generator	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Exhaust	Loss of Material	Preventive Maintenance Program	VII.H2.4-a	3.3.1.A-05	A
3.3-124	Filters/Strainers	FLT, PB	Copper Alloys (Zinc ≤ 15%)	Air	None	None			None
3.3-124	Filters/Strainers	FLT, PB	Copper Alloys (Zinc ≤ 15%)	Fuel Oil without Water Contamination	None	None			None
3.3-124	Filters/Strainers	FLT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Lubricating Oil	None	None			None
3.3-125	Filters/Strainers	FLT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-125	Filters/Strainers	FLT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-125	Filters/Strainers	FLT, PB	Gray Cast Iron	Air	Loss of Material	One-Time Inspection Program			F

3.3-125	Filters/Strainers	FLT, PB	Gray Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program, Selective Leaching of Materials Program			F
3.3-125	Filters/Strainers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-125	Filters/Strainers	PB	Copper Alloys (Zinc ≤ 15%)	Fuel Oil without Water Contamination	None	None			None
3.3-126	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.1-a	3.3.1.A-17	C, 11
3.3-126	Flow Glasses	PB	Glass	Fuel Oil without Water Contamination	None	None			None
3.3-126	Flow Glasses	PB	Glass	Lubricating Oil	None	None			None
3.3-126	Heat Exchangers	HT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			H

3.3-126	Heat Exchangers	HT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.3-a	3.3.1.A-15	D, 6
3.3-126	Heat Exchangers	HT, PB	Gray Cast Iron	Treated Water, temperature <140°F	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			H
3.3-126	Heat Exchangers	HT, PB	Gray Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.3-a	3.3.1.A-15	D, 6
3.3-126	Heat Exchangers	HT, PB	Gray Cast Iron	Treated Water, temperature <140°F	Loss of Material	Selective Leaching of Materials Program	VII.C2.3-a	3.3.1.A-29	C, 6
3.3-127	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Lubricating Oil	None	None			None
3.3-127	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Open-Cycle Cooling Water System Program			M
3.3-127	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Heat Transfer	Open-Cycle Cooling Water System Program			M

3.3-127	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	C, 6
3.3-127	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-127	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-127	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.3-a	3.3.1.A-15	D, 6
3.3-128	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Lubricating Oil	None	None			None
3.3-128	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Open-Cycle Cooling Water System Program			M
3.3-128	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	C, 6

3.3-128	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-128	Level Glasses	PB	Glass	Lubricating Oil	None	None			None
3.3-128	Level Glasses	PB	Glass	Treated Water, temperature <140°F	None	None			None
3.3-128	Mufflers and Silencers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.3-a	3.3.1.A-05	A
3.3-128	Mufflers and Silencers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Exhaust	Loss of Material	Preventive Maintenance Program	VII.H2.4-a	3.3.1.A-05	A
3.3-128	Orifices	FR, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Lubricating Oil	None	None			None
3.3-129	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None

3.3-129	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.2-a	3.3.1.A-05	A
3.3-129	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3
3.3-129	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-129	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.1-a	3.3.1.A-17	A
3.3-129	Piping and Fittings	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Air	None	None			None
3.3-129	Piping and Fittings	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Fuel Oil without Water Contamination	None	None			None
3.3-130	Pumps	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None

3.3-130	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-130	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-130	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.3-a	3.3.1.A-15	B
3.3-130	Pumps	PB	Gray Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program, Selective Leaching of Materials Program			F
3.3-130	Tanks	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil	Loss of Material	Fuel Oil Chemistry Program, One-Time Inspection Program	VII.H1.4-a	3.3.1.A-07	A
3.3-131	Tanks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.H2.2-a	3.3.1.A-05	A
3.3-131	Tanks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil	Loss of Material	Fuel Oil Chemistry Program, One-Time Inspection Program	VII.H1.4-a	3.3.1.A-07	A

3.3-131	Tanks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Soil, below the water table	Loss of Material	Buried Piping and Tanks Inspection Program	VII.H1.1-b	3.3.1.A-18	C, 15
3.3-131	Tanks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.4-a	3.3.1.A-15	B
3.3-131	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-132	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.H2.2-a	3.3.1.A-05	A
3.3-132	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-132	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-132	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	A

3.3-132	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.2-a	3.3.1.A-15	B
3.3-132	Valves	PB	Cast Austenitic Stainless Steel	Air	None	None			None
3.3-132	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Air	None	None			None
3.3-132	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Fuel Oil without Water Contamination	None	None			None
3.3-132	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Lubricating Oil	None	None			None
3.3-132	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	A
3.3-133	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program, Selective Leaching of Materials Program	VII.C1.2-a	3.3.1.A-17, 3.3.1.A-29	A

3.3-133	Valves	PB	Wrought Austenitic Stainless Steel	Air	None	None			None	
3.3-133	Valves	PB	Wrought Austenitic Stainless Steel	Lubricating Oil	None	None			None	
3.3-133	Valves	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Open-Cycle Cooling Water System Program			H	
3.3-133	Valves	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	A	
3.3-133	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None	
3.3-134	Bolting	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	C, 5	
3.3-134	Filters/Strainers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.A-21	A	DSSA

3.3-134	Fire Hydrants	NFS	Gray Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.A-21	A	DSSA
3.3-134	Fire Hydrants	NFS	Gray Cast Iron	Raw Water, Low Flow	Loss of Material	Selective Leaching of Materials Program			H	
3.3-134	Flow Elements	NFS	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Cracking	Fire Water System Program			H	DSSA
3.3-134	Flow Elements	NFS	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.A-21	C, 11	DSSA
3.3-135	Gearbox	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None	
3.3-135	Heat Exchangers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-a	3.3.1.A-21	C, 6	DSSA
3.3-135	NSR piping, fittings, and equipment	PFASRE	Any	Raw Water, Low Flow	Cracking, Loss of Material	Systems Walkdown Program			J	

3.3-135	Orifices	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.H2.3-a	3.3.1.A-05	C, 7	
3.3-135	Orifices	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-a	3.3.1.A-21	C, 7	DSSA
3.3-135	Orifices	NFS	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Cracking	Fire Water System Program			H	DSSA
3.3-135	Orifices	NFS	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-a	3.3.1.A-21	C, 7	DSSA
3.3-136	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.3-a	3.3.1.A-05	A	
3.3-136	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3	
3.3-136	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Exhaust	Loss of Material	Fire Water System Program, Preventive Maintenance Program	VII.H2.4-a	3.3.1.A-05	A	DSSA

3.3-136	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-a	3.3.1.A-21	A	DSSA
3.3-136	Piping and Fittings	NFS	Copper Alloys (Zinc ≤ 15%)	Fuel Oil without Water Contamination	None	None			None	
3.3-136	Piping and Fittings	NFS	Concrete	Soil, above the water table	None	None			None	
3.3-136	Piping and Fittings	NFS	Concrete	Soil, below the water table	None	None			None	
3.3-136	Piping and Fittings	NFS	Concrete	Raw Water, Low Flow	None	None			None	
3.3-137	Pumps	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.A-21	A	DSSA
3.3-137	Silencers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.3-a	3.3.1.A-05	A	

3.3-137	Silencers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Exhaust	Loss of Material	Preventive Maintenance Program	VII.H2.4-a	3.3.1.A-05	A	
3.3-137	Sluice Gate for Motor Driven Fire Pump	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.A-21	C, 22	DSSA
3.3-137	Spray Nozzles	NFS	Copper Alloys (Zinc ≤ 15%)	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.A-21	C, 21	DSSA
3.3-137	Sprinklers	NFS	Copper Alloys (Zinc ≤ 15%)	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.A-21	A	DSSA
3.3-138	Tanks and Air Receivers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.H2.2-a	3.3.1.A-05	A	
3.3-138	Tanks and Air Receivers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None	
3.3-138	Tanks and Air Receivers	NFS	Copper Alloys (Zinc ≤ 15%)	Air	None	None			None	

3.3-138	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.H2.2-a	3.3.1.A-05	A	
3.3-138	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None	
3.3-138	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.A-21	A	DSSA
3.3-138	Valves	NFS	Copper Alloys (Zinc ≤ 15%)	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.A-21	A	DSSA
3.3-138	Valves	NFS	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.A-21	A	DSSA
3.3-138	Valves	NFS	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Raw Water, Low Flow	Loss of Material	Selective Leaching of Materials Program	VII.C1.2-a	3.3.1.A-29	A	
3.3-139	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.A-21	A	DSSA

3.3-140	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature <140°F	Cracking Loss of Material	Systems Walkdown Program, Water Chemistry Control Program			J
3.3-140	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking Loss of Material	Flow-Accelerated Corrosion Program, Systems Walkdown Program, Water Chemistry Control Program			J, 31
3.3-141	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Water Chemistry Control Program, One-Time Inspection Program	V.D2.1-a	3.2.1.A-02	B
3.3-141	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Sodium Pentaborate Solution	None	None			None
3.3-141	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-141	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	B, 1
3.3-141	Pumps	PB	Wrought Austenitic Stainless Steel	Sodium Pentaborate Solution	None	None			None

3.3-142	Tanks	PB	Wrought Austenitic Stainless Steel	Sodium Pentaborate Solution	None	None			None
3.3-142	Tanks	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-142	Valves	PB	Cast Austenitic Stainless Steel	Sodium Pentaborate Solution	None	None			None
3.3-142	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-142	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 1, 2
3.3-143	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Fracture Toughness	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-b	3.1.1.A-23	B
3.3-143	Valves	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None

3.3-143	Valves	PB	Wrought Austenitic Stainless Steel	Sodium Pentaborate Solution	None	None			None
3.3-143	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-143	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 1, 2
3.3-144	NSR piping, fittings, and equipment	PFASRE	Any	Demineralized Untreated Water, Raw Water	Cracking, Loss of Material	Systems Walkdown Program			J
3.3-145	Piping	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3
3.3-145	Piping	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-145	Piping	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None

3.3-145	Valves	PB	Aluminum alloys containing copper or zinc as the primary alloying elements	Dried Air or Gas	None	None			None
3.3-145	Valves	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-146	Dampers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3
3.3-146	Dampers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	Preventive Maintenance Program	VII.F2.1-a	3.3.1.A-05	A
3.3-147	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.A-10	C, 5
3.3-147	NSR piping, fittings, and equipment	PFASRE	Any	Demineralized Untreated Water, Low Flow, Raw Water, Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking, Loss of Material	Systems Walkdown Program			J
3.3-147	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.A-10	A

3.3-147	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Preventive Maintenance Program	V.C.1-a	3.2.1.A-03, 3.2.1.A-06	A
3.3-147	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Preventive Maintenance Program	V.C.1-a	3.2.1.A-03, 3.2.1.A-05, 3.2.1.A-06	A
3.3-148	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	Preventive Maintenance Program	V.C.1-a	3.2.1.A-03	A
3.3-148	Pumps	NFS	Gray Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Preventive Maintenance Program, Selective Leaching of Materials Program			Q
3.3-148	Pumps	NFS	Wrought Austenitic Stainless Steel	Demineralized Untreated Water, Low Flow	Loss of Material	Preventive Maintenance Program	V.C.1-b	3.2.1.A-06	C, 16
3.3-148	Tanks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Preventive Maintenance Program	V.C.1-a	3.2.1.A-03, 3.2.1.A-05, 3.2.1.A-06	C, 15
3.3-149	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Preventive Maintenance Program	V.C.1-a	3.2.1.A-03, 3.2.1.A-06	A

3.3-149	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Preventive Maintenance Program	V.C.1-a	3.2.1.A-03, 3.2.1.A-05, 3.2.1.A-06	A
3.3-149	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	Preventive Maintenance Program	V.C.1-a	3.2.1.A-03	A
3.3-149	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water, Low Flow	Loss of Material	Preventive Maintenance Program			F
3.3-149	Valves	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water, Low Flow	Loss of Material	Preventive Maintenance Program	V.C.1-b	3.2.1.A-06	A
3.3-150	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking	Preventive Maintenance Program			H
3.3-151	Filters/Strainers	FLT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			J
3.3-151	Filters/Strainers	FLT, PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water	None	None			None

3.3-151	Filters/Strainers	FLT, PB	Gray Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program, Selective Leaching of Materials Program			J
3.3-151	Flow Elements	PB	Gray Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program, Selective Leaching of Materials Program			K
3.3-152	Heat Exchangers	HT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program, One-Time Inspection Program			J
3.3-152	Heat Exchangers	HT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			J
3.3-152	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Demineralized Untreated Water	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program, One-Time Inspection Program			J
3.3-152	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program, Selective Leaching of Materials Program			J
3.3-152	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Lubricating Oil	None	None			None

3.3-153	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Raw Water, Low Flow	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			J
3.3-153	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Raw Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program, Selective Leaching of Materials Program			J
3.3-153	Heat Exchangers	HT, PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Treated Water, temperature <140°F	Loss of Heat Transfer	BWR Reactor Water Cleanup System Program, One-Time Inspection Program			J, 9
3.3-153	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program, One-Time Inspection Program			J, 9
3.3-154	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Open-Cycle Cooling Water System Program			M
3.3-154	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Heat Transfer	Open-Cycle Cooling Water System Program			F
3.3-154	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.4-a	3.3.1.A-17	C, 6

3.3-154	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-154	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program			L
3.3-154	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program, Water Chemistry Control Program			L
3.3-155	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			J
3.3-155	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program			J
3.3-155	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water	None	None			None
3.3-155	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Open-Cycle Cooling Water System Program			M

3.3-155	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.4-a	3.3.1.A-17	C, 6
3.3-155	NSR piping, fittings, and equipment	PFASR E	Any	Demineralized Untreated Water, Demineralized Untreated Water, Low Flow, Raw Water	Cracking, Loss of Material	Closed-Cycle Cooling Water System Program, Systems Walkdown Program			J
3.3-156	NSR piping, fittings, and equipment	PFASR E	Any	Raw Water, Low Flow	Cracking, Loss of Material	Closed-Cycle Cooling Water System Program, Systems Walkdown Program			J
3.3-156	Orifices	FR, PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water	None	None			None
3.3-156	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3
3.3-156	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-156	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program			K

3.3-156	Pumps	PB	Gray Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program, Selective Leaching of Materials Program			G
3.3-157	Temperature Elements	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water	None	None			None
3.3-157	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-157	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-157	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water	None	None			None
3.3-157	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program			K
3.3-157	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program, Selective Leaching of Materials Program			K

3.3-158	Valves	PB	Gray Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program, Selective Leaching of Materials Program			K
3.3-158	Valves	PB	Gray Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program, Selective Leaching of Materials Program			K
3.3-158	Valves	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water	None	None			None
3.3-159	Blowers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	V.B.1-a	3.2.1.A-03	A
3.3-159	Blowers	PB	Polymers	Air	Cracking	Preventive Maintenance Program	V.B.1-b	3.2.1.A-07	A
3.3-159	Blowers	PB	Polymers	Air	Hardening and Shrinkage	Preventive Maintenance Program	V.B.1-b	3.2.1.A-07	A
3.3-159	Blowers	PB	Polymers	Air	Loss of Strength	Preventive Maintenance Program	V.B.1-b	3.2.1.A-07	A

3.3-159	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	V.B.1-a	3.2.1.A-03	A
3.3-160	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.A-10	A, 12
3.3-160	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	V.B.1-a	3.2.1.A-03	A
3.3-160	Filters	FLT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	V.B.2-a	3.2.1.A-03	A
3.3-160	Flow Elements	PB	Gray Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program			J
3.3-160	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.A-10	A, 3
3.3-160	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	V.B.1-a	3.2.1.A-03	C, 10

3.3-160	Temperature Elements	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Air	None	None			None
3.3-161	Valves and Dampers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	V.B.1-a	3.2.1.A-03	C, 2
3.3-161	Valves and Dampers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	V.B.1-a	3.2.1.A-03	A, 23
3.3-161-2	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	C, 5
3.3-162	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program			N
3.3-162	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program			M
3.3-162	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program			M

3.3-162	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water	None	None			None
3.3-162	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	VII.E3.1-b	3.3.1.A-03	C, 6
3.3-162	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Preventive Maintenance Program, Water Chemistry Control Program	VII.E3.3-d	3.3.1.A-04	B
3.3-163	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature <140°F	Cracking, Loss of Material	BWR Reactor Water Cleanup System Program, Flow-Accelerated Corrosion Program, Systems Walkdown Program			J, 31
3.3-163	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3
3.3-163	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	BWR Reactor Water Cleanup System Program			N
3.3-163	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	VII.E3.1-b	3.3.1.A-03	A

3.3-163	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	BWR Reactor Water Cleanup System Program	VII.E3.1-a	3.3.1.A-26	B
3.3-164	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-b	3.2.1.A-02	B
3.3-164	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.3-164	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.3-c	3.1.1.A-25	A
3.3-164	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 1, 2
3.3-164	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-b	3.2.1.A-02	B
3.3-165	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None

3.3-165	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.A-29	E
3.3-165	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.3-165	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.A-29	E
3.3-165	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.3-165	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Loss of Fracture Toughness	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-b	3.1.1.A-23	B
3.3-166	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 1, 2

3.3-166	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Fracture Toughness	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-b	3.1.1.A-23	B
3.3-166	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.3-167	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 1, 2
3.3-167	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.3-167	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-c	3.2.1.A-16	E, 29
3.3-168	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 1, 2

3.3-168	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 1, 2
3.3-168	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.3-169	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program	V.D2.3-c	3.2.1.A-16	E, 29
3.3-170	Heat Exchangers	PB	Nickel Based Alloys	Demineralized Untreated Water	None	None			None
3.3-170	Heat Exchangers	PB	Nickel Based Alloys	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.3-170	Heat Exchangers	PB	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program			F
3.3-170	Heat Exchangers	PB	Nickel Based Alloys	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program			F

3.3-170	NSR piping, fittings, and equipment	PFASR E	Any	Treated Water, temperature <140°F. Treated Water, temperature < 140°F, Low Flow	Cracking, Loss of Material	Water Chemistry Control Program, Systems Walkdown Program			J
3.3-171	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program	VII.E3.1-a	3.3.1.A-26	E
3.3-171	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	VII.E3.1-b	3.3.1.A-03	A
3.3-171	Rupture Disc	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program			Q
3.3-171	Rupture Disc	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	VII.E3.1-b	3.3.1.A-03	C, 28
3.3-171	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-172	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, One-Time Inspection Program, Water Chemistry Control Program	IV.C1.1-i	3.1.1.A-07	D, 1, 2

3.3-173	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	C, 5
3.3-173	Filters/Strainers	FLT	Gray Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program, Selective Leaching of Materials Program			F
3.3-173	Flow Elements	PB	Gray Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program, Selective Leaching of Materials Program			F
3.3-173	NSR piping, fittings, and equipment	PFASRE	Any	Raw Water	Cracking, Loss of Material	Open-Cycle Cooling Water System Program, Systems Walkdown Program			J
3.3-174	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3
3.3-174	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.1-a	3.3.1.A-17	A
3.3-174	Piping and Fittings	PB	Gray Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program, Selective Leaching of Materials Program			F

3.3-174	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Open-Cycle Cooling Water System Program			H
3.3-174	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.1-a	3.3.1.A-17	A
3.3-174	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.5-a	3.3.1.A-17	A
3.3-175	Pumps	PB	Gray Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program, Selective Leaching of Materials Program			F
3.3-175	Valves	NFS	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	A
3.3-175	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	A
3.3-175	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	A

3.3-175	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program, Selective Leaching of Materials Program	VII.C1.2-a	3.3.1.A-17	A
3.3-176	Valves	PB	Gray Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program, Selective Leaching of Materials Program			F
3.3-176	Valves	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Open-Cycle Cooling Water System Program			H
3.3-176	Valves	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.A-17	A
3.3-177	Flow Elements	NFS	Cast Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-177	Heat Exchangers	HT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			H
3.3-177	Heat Exchangers	HT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.E4.4-a	3.3.1.A-28	B

3.3-177	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-177	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-177	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature <140°	Cracking, Loss of Material	Systems Walkdown Program, Water Chemistry Control Program			J
3.3-178	Orifices	FR, PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	C, 7
3.3-178	Orifices	FR, PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program			Q
3.3-178	Orifices	NFS	Cast Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-178	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None

3.3-178	Pumps	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	VII.E4.2-a	3.3.1.A-08	B
3.3-179	Valves	NFS	Cast Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-179	Valves	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-179	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3
3.3-179	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-179	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.A-29	E
3.3-180	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A

3.3-180	Valves	PB	Cast Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Loss of Fracture Toughness	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program	IV.C1.3-b	3.1.1.A-23	B
3.3-180	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-180	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program, Water Chemistry Control Program	IV.C1.3-c	3.1.1.A-29	E
3.3-180	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.3-181	Filters/Strainers	FLT, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program			F
3.3-181	Filters/Strainers	FLT, PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-181	Flow Elements	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None

3.3-181	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			L, 9
3.3-181	Heat Exchangers	HT, PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-182	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-182	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Preventive Maintenance Program, Water Chemistry Control Program			F
3.3-182	Heat Exchangers	PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water	None	None			None
3.3-182	Heat Exchangers	PB	Copper Alloys (Zinc ≤ 15%)	Treated Water, temperature <140°F	None	None			None
3.3-183	NSR piping, fittings, and equipment	PFASRE	Any	Demineralized Untreated Water. Treated Water, temperature <140°F. Treated Water, temperature < 140°F, Low Flow	Cracking, Loss of Material	Systems Walkdown Program, Water Chemistry Control Program			J

3.3-183	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3
3.3-183	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-184	Pumps	PB	Gray Cast Iron	Treated Water, temperature <140°F	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program	VII.C2.3-a	3.3.1.A-15	E
3.3-184	Pumps	PB	Gray Cast Iron	Treated Water, temperature <140°F	Loss of Material	Selective Leaching of Materials Program	VII.C2.3-a	3.3.1.A-29	A
3.3-184	Tanks	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-184	Valves	PB	Aluminum alloys containing copper or zinc as the primary alloying elements	Treated Water, temperature <140°F	Cracking	One-Time Inspection Program, Water Chemistry Control Program			M
3.3-184	Valves	PB	Aluminum alloys containing copper or zinc as the primary alloying elements	Treated Water, temperature <140°F, Low Flow	Cracking	One-Time Inspection Program, Water Chemistry Control Program			M

3.3-185	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program			F
3.3-185	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program, Water Chemistry Control Program			F
3.3-185	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-185	Valves	PB	Copper Alloys (Zinc ≤ 15%)	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.3-185	Valves	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Treated Water, temperature <140°F	None	None			None
3.3-186	Valves	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-186	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None

3.3-186	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.3-187	NSR piping, fittings, and equipment	PFASRE	Any	Demineralized Untreated Water, Low Flow	Cracking, Loss of Material	Closed-Cycle Cooling Water System Program, Systems Walkdown Program			J
3.3-188	Blowers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.A-05	A
3.3-188	Blowers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.F2.1-a	3.3.1.A-05	A
3.3-188	Bolting	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	C, 5
3.3-188	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	C, 5
3.3-188	Ducting	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.A-05	A

3.3-188	Ducting	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3
3.3-189	Ducting	NFS	Polymers	Air with Vibratory Motion	Cracking	Preventive Maintenance Program	VII.F2.1-b	3.3.1.A-02	A
3.3-189	Ducting	NFS	Polymers	Air with Vibratory Motion	Hardening and Shrinkage	Preventive Maintenance Program	VII.F2.1-b	3.3.1.A-02	A
3.3-189	Ducting	NFS	Polymers	Air with Vibratory Motion	Loss of Material	Preventive Maintenance Program	VII.F2.1-c	3.3.1.A-02	A
3.3-189	Ducting	NFS	Polymers	Air with Vibratory Motion	Loss of Strength	Preventive Maintenance Program	VII.F2.1-b	3.3.1.A-02	A
3.3-189	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.A-05	A
3.3-189	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 3

3.3-189	Muffler	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.4-a	3.3.1.A-05	A
3.3-190	Valves and Dampers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.A-05	A, 23
3.3-190	Valves and Dampers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.A-05	C, 2
3.3-190	Valves and Dampers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.F2.1-a	3.3.1.A-05	A, 23
3.3-190	Valves and Dampers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.A-05	C, 2
3.3-190	Valves and Dampers	PB	Gray Cast Iron	Air	Loss of Material	One-Time Inspection Program			F
3.3-190	Vents	NFS	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None			None

3.3-191	Air Separators	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.2-a	3.3.1.B-05	C, 20
3.3-191	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	C, 5
3.3-191	Diesel Engine Air Start Motors	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.2-a	3.3.1.B-05	C, 19
3.3-191	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.3-a	3.3.1.B-05	A
3.3-192	Mufflers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Exhaust	Loss of Material	Preventive Maintenance Program	VII.H2.4-a	3.3.1.B-05	A
3.3-192	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.2-a	3.3.1.B-05	A
3.3-192	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3

3.3-192	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-192	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Exhaust	Loss of Material	Preventive Maintenance Program			F
3.3-192	Starting Air Lubricator	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.2-a	3.3.1.B-05	C, 19
3.3-193	Tanks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.2-a	3.3.1.B-05	A
3.3-193	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H2.2-a	3.3.1.B-05	A
3.3-193	Valves	PB	Cast Austenitic Stainless Steel	Air	None	None			None
3.3-193	Valves	PB	Nickel Based Alloys	Air	None	None			None

3.3-193	Valves	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-193	Valves	PB	Wrought Austenitic Stainless Steel	Exhaust	Loss of Material	Preventive Maintenance Program			F
3.3-194	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	C, 5
3.3-194	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-194	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C3.1-a	3.3.1.B-17	A
3.3-194	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C3.2-a	3.3.1.B-17	A
3.3-195	Fire Dampers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3

3.3-195	Fire Dampers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.B-05	A
3.3-196	NSR piping, fittings, and equipment	PFASR E	Any	Treated Water, temperature <140°F	Cracking Loss of Material	Open-Cycle Cooling Water System Program Systems Walkdown Program			J
3.3-197	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.D.2-a	3.3.1.B-19	E
3.3-197	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air	None	None			None
3.3-197	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program	VII.D.1-a	3.3.1.B-19	E
3.3-197	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-197	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None

3.3-197	Piping and Fittings	PB	Copper Alloys (Zinc ≤ 15%)	Air	None	None			None
3.3-197	Piping and Fittings	PB	Copper Alloys (Zinc ≤ 15%)	Dried Air or Gas	None	None			None
3.3-197	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-197	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-198	Orifices	FR PB	Various Metallic Materials	Dried Air or Gas	None	None			None
3.3-198	Orifices	FR PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-198	Radiation Collars	RS	Wrought Austenitic Stainless Steel	Air	None	None			None

3.3-198	Tanks and Receivers	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-198	Rupture Discs	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-198	Valves	NFS	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Dried Air or Gas	None	None			None
3.3-198	Valves	NFS	Various Metallic Materials	Dried Air or Gas	None	None			None
3.3-198	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program	VII.D.2-a	3.3.1.B-19	E
3.3-198	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-199	Valves (cont'd)	PB	Cast Austenitic Stainless Steel	Dried Air or Gas	None	None			None

3.3-199	Valves (cont'd)	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Dried Air or Gas	None	None			None
3.3-199	Valves (cont'd)	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Dried Air or Gas	None	None			None
3.3-199	Valves (cont'd)	PB	Various Metallic Materials	Dried Air or Gas	None	None			None
3.3-199	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-200	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air, Moisture or Wetting, temperature ≥ 140°F	Cracking	Systems Walkdown Program			K
3.3-200	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			K
3.3-200	Condensing Chambers	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program			J

3.3-200	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program			J
3.3-200	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	Systems Walkdown Program			J, 13
3.3-200	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Cracking	One-Time Inspection Program			J
3.3-200	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Cracking	Systems Walkdown Program			J, 13
3.3-200	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	One-Time Inspection Program			J
3.3-200	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	Systems Walkdown Program			J, 13
3.3-200	Pumps	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Cracking	One-Time Inspection Program			J

3.3-200	Pumps	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	One-Time Inspection Program			J
3.3-201	Valves	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program			J
3.3-201	Valves	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Cracking	One-Time Inspection Program			J
3.3-201	Valves	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	One-Time Inspection Program			J
3.3-202	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-202	Valves	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-203	Chillers	HT PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None

3.3-203	Chillers	HT PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-203	Chillers	HT PB	Copper Alloys (Zinc ≤ 15%)	Dried Air or Gas	None	None			None
3.3-203	Chillers	HT PB	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Heat Transfer	Open-Cycle Cooling Water System Program			M
3.3-203	Chillers	HT PB	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program			F
3.3-203	Chillers	HT PB	Copper Alloys (Zinc ≤ 15%)	Treated Water, temperature <140°F	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			H, 9
3.3-203	Chillers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-203	Chillers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.3-a	3.3.1.B-17	A

3.3-203	Chillers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.4-a	3.3.1.B-15	D, 6
3.3-204	Chillers (cont'd)	PB	Gray Cast iron	Dried Air or Gas	None	None			None
3.3-204	Flow Elements	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-204	NSR piping, fittings, and equipment	PFASRE	Any	Raw Water Treated Water, temperature <140°F Treated Water, temperature < 140°F, Low Flow	Cracking Loss of Material	Open-Cycle Cooling Water System Program Systems Walkdown Program			J
3.3-204	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-204	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.F1.3-a	3.3.1.B-15	B
3.3-204	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program	VII.F1.3-a	3.3.1.B-15	B

3.3-205	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.3-a	3.3.1.B-15	B
3.3-205	Pumps	PB	Gray Cast iron	Lubricating Oil	None	None			None
3.3-205	Tanks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.4-a	3.3.1.B-15	B
3.3-205	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-205	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.2-a	3.3.1.B-15	B
3.3-205	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.2-a	3.3.1.B-15	B
3.3-205	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Dried Air or Gas	None	None			None

3.3-206	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-206	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.3-207	Air Handling Unit	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.B-05	A
3.3-207	Blowers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.B-05	A
3.3-207	Blowers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.B-05	A
3.3-207	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.B-05	A
3.3-208	Filters/Strainers	FLT PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.4-a	3.3.1.B-05	A

3.3-208	Filters/Strainers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.4-a	3.3.1.B-05	A
3.3-208	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.B-05	C, 11
3.3-208	Heat Exchangers	HT PB	Copper Alloys (Zinc ≤ 15%)	Air, Moisture or Wetting, temperature <140°F	Loss of Heat Transfer	Preventive Maintenance Program			H
3.3-208	Heat Exchangers	HT PB	Copper Alloys (Zinc ≤ 15%)	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	VII.F1.2-a	3.3.1.B-05	A
3.3-208	Heat Exchangers	HT PB	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			L, 9
3.3-209	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.F1.1-a	3.3.1.B-05	C, 10
3.3-209	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3

3.3-209	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Preventive Maintenance Program	VII.C1.1-a	3.3.1.B-17	E
3.3-209	Piping and Fittings	PB	Polymers	Air	Cracking	Preventive Maintenance Program	VII.F1.4-b	3.3.1.B-02	A
3.3-209	Piping and Fittings	PB	Polymers	Air	Hardening and Shrinkage	Preventive Maintenance Program	VII.F1.4-b	3.3.1.B-02	A
3.3-209	Piping and Fittings	PB	Polymers	Air	Loss of Strength	Preventive Maintenance Program	VII.F1.4-b	3.3.1.B-02	A
3.3-209	Radiation Sample Point	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-210	Valves and Dampers (includes fire dampers)	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.B-05	A, 23
3.3-210	Valves and Dampers (includes fire dampers)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.B-05	A, 23

3.3-210	Valves and Dampers (includes fire dampers)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F1.1-a	3.3.1.B-05	C, 2	
3.3-210	Valves and Dampers (includes fire dampers)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	One-Time Inspection Program	VII.C3.2-a	3.3.1.B-17	E	
3.3-210	Valves and Dampers (includes fire dampers)	PB	Gray Cast Iron	Air	Loss of Material	One-Time Inspection Program			K	
3.3-210	Valves and Dampers (includes fire dampers)	PB	Wrought Austenitic Stainless Steel	Air	None	None			None	
3.3-211	Blowers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.F4.1-a	3.3.1.B-05	A	
3.3-211	Blowers	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None			None	
3.3-211	Dampers (includes fire dampers)	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Fire Protection Program	VII.F4.1-a	3.3.1.B-05	A, 4	DSSA

3.3-211	Dampers (includes fire dampers)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.F4.1-a	3.3.1.B-05	A
3.3-211	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F4.1-a	3.3.1.B-05	A
3.3-211	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air		Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-212	Unit Coolers	PB	Copper Alloys	Air, Moisture or Wetting, temperature <140°F	Loss of Material	Preventive Maintenance Program	VII.F4.2-a	3.3.1.B-05	A
3.3-212	Unit Coolers	PB	(Zinc ≤ 15%)	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program			G
3.3-212	Unit Coolers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	Preventive Maintenance Program	VII.F4.1-a	3.3.1.B-05	A
3.3-213	Bolting	PB	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air	None	None			None

3.3-213	NSR piping, fittings, and equipment	PFASR E	Any	Demineralized Untreated Water	Cracking Loss of Material	Systems Walkdown Program			J
3.3-213	Valves	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water	None	None			None
3.3-214	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-214	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-214	Tank	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil	Loss of Material	Fuel Oil Chemistry Program One- Time Inspection Program	VII.H1.4-a	3.3.1.B-07	A
3.3-214	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-215	Bolting	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	C, 5

3.3-215	Bolting	NFS	Carbon or Low Alloy Steel	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	C, 5	
3.3-215	Bolting	NFS	(Yield Strength ≥ 100 Ksi)	Air, Moisture or Wetting, temperature <140°F	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	C, 5	
3.3-215	Fire Hydrants	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	A	DSSA
3.3-215	Flow elements	NFS	Gray Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-a	3.3.1.B-21	C, 11	DSSA
3.3-215	Flow elements	NFS	Gray Cast Iron	Raw Water, Low Flow	Loss of Material	Selective Leaching of Materials Program			Q	
3.3-216	Halon Tank Flex Hoses	NFS	Polymers	Air	Cracking	Fire Protection Program			Q	DSSA
3.3-216	Halon Tank Flex Hoses	NFS	Polymers	Air	Hardening and Shrinkage	Fire Protection Program			Q	DSSA

3.3-216	Halon Tank Flex Hoses	NFS	Polymers	Air	Loss of Strength	Fire Protection Program			Q	DSSA
3.3-216	Heat Exchangers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	C, 6	DSSA
3.3-216	Hose Reels	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Fire Protection Program			Q	DSSA
3.3-216	Hose Reels	NFS	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Air	None	None			None	
3.3-217	Manifold	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	C, 26	DSSA
3.3-217	Nozzles	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	C, 25	
3.3-217	Nozzles	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Fire Protection Program			Q	DSSA

3.3-217	Nozzles	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None	
3.3-217	NSR piping, fittings, and equipment	PFASRE	Any	Raw Water, Low Flow	Cracking	Fire Water System Program			J	DSSA
3.3-217	Odorizers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None	
3.3-217	Odorizers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Fire Protection Program			Q	DSSA
3.3-218	Orifices	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Fire Protection Program			G	DSSA
3.3-218	Orifices	NFS	Copper Alloys (Zinc ≤ 15%)	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	C, 7	DSSA
3.3-218	Orifices	NFS	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Cracking	Fire Water System Program			H	DSSA

3.3-218	Orifices	NFS	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	C, 7	DSSA
3.3-218	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3	
3.3-218	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Fire Protection Program	VII.D.1-a	3.3.1.B-19	E	DSSA
3.3-218	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None	
3.3-218	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-a	3.3.1.B-21	A	DSSA
3.3-218	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Soil, above the water table	Loss of Material	Buried Piping and Tanks Inspection Program	VII.C1.1-b	3.3.1.B-18	A	
3.3-218	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Soil, below the water table	Loss of Material	Buried Piping and Tanks Inspection Program	VII.C1.1-b	3.3.1.B-18	A	

3.3-219	Piping and Fittings (cont'd)	NFS	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	C, 10	DSSA
3.3-219	Piping and Fittings (cont'd)	NFS	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Raw Water, Low Flow	Loss of Material	Selective Leaching of Materials Program	VII.C1.1-a	3.3.1.B-29	A	
3.3-219	Piping and Fittings (cont'd)	NFS	Wrought Austenitic Stainless Steel	Exhaust	Loss of Material	Fire Water System Program			F	DSSA
3.3-219	Pumps	NFS	Gray Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	A	DSSA
3.3-219	Pumps	NFS	Gray Cast Iron	Raw Water, Low Flow	Loss of Material	Selective Leaching of Materials Program	VII.G.6-b	3.3.1.B-21	E	
3.3-219	Rupture Discs	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None	
3.3-219	Silencer	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Exhaust	Loss of Material	Fire Water System Program	VII.H2.4-a	3.3.1.B-05	A	DSSA

3.3-220	Strainers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	A	
3.3-220	Strainers	NFS	Gray Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	A	
3.3-220	Strainers	NFS	Gray Cast Iron	Raw Water, Low Flow	Loss of Material	Selective Leaching of Materials Program	VII.G.6-b	3.3.1.B-21	E	
3.3-220	Tanks	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None	
3.3-220	Temperature Indicators	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	C, 24	
3.3-221	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Fire Protection Program	VII.D.2-a	3.3.1.B-19	E	DSSA
3.3-221	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Fire Water System Program	VII.D.2-a	3.3.1.B-19	E	DSSA

3.3-221	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.3-221	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	A
3.3-221	Valves	NFS	Copper Alloys (Zinc ≤ 15%)	Air	None	None			None
3.3-221	Valves	NFS	Copper Alloys (Zinc ≤ 15%)	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	A
3.3-221	Valves	NFS	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	A
3.3-221	Valves	NFS	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Raw Water, Low Flow	Loss of Material	Selective Leaching of Materials Program	VII.C1.2-a	3.3.1.B-29	A
3.3-221	Valves	NFS	Gray Cast Iron	Air	Loss of Material	Fire Water System Program			F, 27

3.3-221	Valves	NFS	Gray Cast Iron	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	A	
3.3-221	Valves	NFS	Gray Cast Iron	Raw Water, Low Flow	Loss of Material	Selective Leaching of Materials Program	VII.G.6-b	3.3.1.B-21	E	
3.3-222	Valves (cont'd)	NFS	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Cracking	Fire Water System Program			H	DSSA
3.3-222	Valves (cont'd)	NFS	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Loss of Material	Fire Water System Program	VII.G.6-b	3.3.1.B-21	A	DSSA
3.3-223	Bolting	NFS	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	C, 5	
3.3-223	Bolting	NFS	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air	None	None			None	
3.3-223	Drain Tank	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None	

3.3-223	Drain Tank	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program			H
3.3-223	Floor Drains	NFS	Floor Drain Materials	Floor Drains	None	None			None
3.3-224	Flow Elements	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	One-Time Inspection Program			F
3.3-224	Flow Elements	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F	Loss of Material	One-Time Inspection Program			F
3.3-224	Flow Elements	NFS	Wrought Austenitic Stainless Steel	Raw Water	Cracking	One-Time Inspection Program			H
3.3-224	Flow Elements	NFS	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	One-Time Inspection Program	VII.C1.4-a	3.3.1.B-17	E
3.3-224	Flow Elements	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program			P

3.3-224	NSR piping, fittings, and equipment	PFASR E	Any	Raw Water Treated Water, temperature <140°F Treated Water, temperature ≥ 140°F, but < 212°F	Cracking Loss of Material	Systems Walkdown Program			J
3.3-225	NSR piping, fittings, and equipment (cont'd)	PFASR E	Any	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking Loss of Material	Systems Walkdown Program			J
3.3-225	Piping and Fittings	DF	Floor Drain Materials	Floor Drains	None	None			None
3.3-225	Piping and Fittings	DF	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-225	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil	Loss of Material	One-Time Inspection Program			Q
3.3-225	Piping and Fittings	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	One-Time Inspection Program	VII.C1.1-a	3.3.1.B-17	E
3.3-225	Piping and Fittings	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program			H

3.3-226	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-226	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	One-Time Inspection Program			Q
3.3-226	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program			Q
3.3-226	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-226	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	10 CFR 50 Appendix J Program			J
3.3-226	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Cracking	One-Time Inspection Program			J
3.3-226	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	One-Time Inspection Program			J

3.3-226	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	10 CFR 50 Appendix J Program			H
3.3-226	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Preventive Maintenance Program			H
3.3-227	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	10 CFR 50 Appendix J Program	V.C.1-b	3.2.1.B-05 3.2.1.B-06	A
3.3-227	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Preventive Maintenance Program	VII.C1.1-a	3.3.1.B-17	E
3.3-227	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	10 CFR 50 Appendix J Program			H
3.3-227	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program			H
3.3-227	Pumps	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None

3.3-227	Pumps	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program			H
3.3-227	Orifices	FR PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Cracking	One-Time Inspection Program			J
3.3-227	Orifices	FR PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	One-Time Inspection Program			J
3.3-227	Spray Nozzle	NFS	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program			J
3.3-228	Strainers	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	One-Time Inspection Program			Q
3.3-228	Strainers	NFS	Cast Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program			J
3.3-228	Valves	DF	Floor Drain Materials	Floor Drains	None	None			None

3.3-228	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil	Loss of Material	One-Time Inspection Program			Q
3.3-228	Valves	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	One-Time Inspection Program	VII.C1.2-a	3.3.1.B-17	E
3.3-228	Valves	NFS	Cast Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program			J
3.3-229	Valves (cont'd)	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program			H
3.3-229	Valves (cont'd)	NFS PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-229	Valves (cont'd)	NFS PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-230	Valves (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	One-Time Inspection Program			Q

3.3-230	Valves (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program			Q
3.3-230	Valves (cont'd)	PB	Cast Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program			J
3.3-230	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	10 CFR 50 Appendix J Program			J
3.3-230	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Cracking	One-Time Inspection Program			J
3.3-230	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature ≥ 140°F	Loss of Material	One-Time Inspection Program			J
3.3-230	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	10 CFR 50 Appendix J Program			H
3.3-230	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	10 CFR 50 Appendix J Program	V.C.1-b	3.2.1.B-05 3.2.1.B-06	A

3.3-231	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-231	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	10 CFR 50 Appendix J Program			H
3.3-231	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program			H
3.3-232	Filters/Strainers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-232	Heat Exchangers	HT PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-232	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Lubricating Oil	None	None			None
3.3-232	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	Closed-Cycle Cooling Water System Program			H

3.3-232	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-233	Heat Exchangers (cont'd)	PB	Wrought Austenitic Stainless Steel	Lubricating Oil	None	None			None
3.3-233	Heat Exchangers (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	Closed-Cycle Cooling Water System Program			H
3.3-233	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-233	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-233	Pumps	PB	Gray Cast Iron	Lubricating Oil	None	None			None
3.3-233	Orifices	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None

3.3-233	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-234	NSR piping, fittings, and equipment	PFASR E	Any	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking Loss of Material	Systems Walkdown Program			J
3.3-234	NSR piping, fittings, and equipment	PFASR E	Any	Treated Water, temperature ≥ 140°F, but < 212°F Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program			J
3.3-235	NSR piping, fittings, and equipment	PFASR E	Any	Treated Water, temperature <140°F	Cracking Loss of Material	Systems Walkdown Program			J
3.3-235	Bellows	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-235	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-235	Valves	PB	Wrought Austenitic Stainless Steel	Air	None	None			None

3.3-236	Debris Screens	FLT	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	VII.F3.4-a	3.3.1.B-05	A
3.3-236	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-236	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	VII.F3.4-a	3.3.1.B-05	C, 10
3.3-236	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	VII.F3.4-a	3.3.1.B-05	C, 10
3.3-236	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	VII.F3.4-a	3.3.1.B-05	C, 2
3.3-236	Valves	PB	Cast Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	VII.F3.4-a	3.3.1.B-05	C, 2
3.3-237	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program	VII.F3.4-a	3.3.1.B-05	C, 2

3.3-238	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature <140°F Treated Water, temperature ≥ 140°F, but < 212°F Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking Loss of Material	Systems Walkdown Program			J
3.3-239	NSR piping, fittings, and equipment	PFASRE	Any	Demineralized Untreated Water Demineralized Untreated Water, Low Flow	Cracking Loss of Material	Closed-Cycle Cooling Water System Program Systems Walkdown Program			J
3.3-239	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-239	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-239	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-239	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program			G

3.3-239	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-239	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-240	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-241	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.F2.1-a	3.3.1.B-05	A
3.3-241	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	VII.F2.1-a	3.3.1.B-05	A
3.3-241	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.B-05	A
3.3-241	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3

3.3-241	Filters/Strainers	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-241	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.B-05	C, 11
3.3-242	Flow Elements (cont'd)	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-242	Piping and Fittings	PB	Polymers	Air	Cracking	Preventive Maintenance Program	VII.F2.1-b	3.3.1.B-02	A
3.3-242	Piping and Fittings	PB	Polymers	Air	Hardening and Shrinkage	Preventive Maintenance Program	VII.F2.1-b	3.3.1.B-02	A
3.3-242	Piping and Fittings	PB	Polymers	Air	Loss of Strength	Preventive Maintenance Program	VII.F2.1-b	3.3.1.B-02	A
3.3-242	Piping and Fittings	PB	Nickel Based Alloys	Air	None	None			None

3.3-242	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-242	Pumps	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-242	Radiation Sample Points	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-243	Unit Coolers	HT PB	Copper Alloys (Zinc ≤ 15%)	Air	Loss of Heat Transfer	Open-Cycle Cooling Water System Program			H, 9
3.3-243	Unit Coolers	HT PB	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Heat Transfer	Open-Cycle Cooling Water System Program			H
3.3-243	Unit Coolers	HT PB	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.3-a	3.3.1.B-17	A
3.3-243	Unit Coolers	HT PB	Copper Alloys (Zinc ≤ 15%)	Raw Water, Low Flow	Loss of Heat Transfer	Open-Cycle Cooling Water System Program			H

3.3-243	Unit Coolers	HT PB	Copper Alloys (Zinc ≤ 15%)	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.3-a	3.3.1.B-17	A
3.3-243	Unit Coolers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.B-05	A
3.3-243	Unit Coolers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-243	Unit Coolers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.3-a	3.3.1.B-17	A
3.3-244	Unit Coolers (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.3-a	3.3.1.B-17	A
3.3-244	Unit Coolers (cont'd)	PB	Copper Alloys (Zinc ≤ 15%)	Air	None	None			None
3.3-244	Unit Coolers (cont'd)	PB	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.3-a	3.3.1.B-17	A

3.3-244	Unit Coolers (cont'd)	PB	Copper Alloys (Zinc ≤ 15%)	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.3-a	3.3.1.B-17	A
3.3-244	Valves and Dampers (includes fire dampers)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Fire Protection Program	VII.F2.1-a	3.3.1.B-05	A, 30
3.3-244	Valves and Dampers (includes fire dampers)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.B-05	A, 23
3.3-244	Valves and Dampers (includes fire dampers)	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-245	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	C, 5
3.3-245	Bolting	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-245	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program			Q, 1

3.3-246'	Flow Elements (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 1, 11
3.3-246'	Flow Elements (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.1-c	3.1.1.B-25	C, 11
3.3-246'	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature <140°F Treated Water, temperature ≥ 140°F, but < 212°F	Cracking Loss of Material	BWR Reactor Water Cleanup System Program Systems Walkdown Program			J, 1, 31
3.3-247	NSR piping, fittings, and equipment (cont'd)	PFASRE	Any	Treated Water or Steam, temperature ≥ 212°F, but < 482°F Treated Water or Steam, temperature ≥ 482°F Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking Loss of Material	BWR Reactor Water Cleanup System Program Flow-Accelerated Corrosion Program Systems Walkdown Program			J, 31
3.3-247	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-248	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.B-01	A

3.3-248	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B, 1
3.3-248	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.1-c	3.1.1.B-25	A
3.3-249	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.B-01	A
3.3-249	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B, 1
3.3-249	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program			H, 1
3.3-250	Piping and Fittings (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	BWR Reactor Water Cleanup System Program			H

3.3-250	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B, 1
3.3-251	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B, 1
3.3-251	Orifices	FR	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 1, 7
3.3-252	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program			H, 1
3.3-252	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 1, 2

3.3-253	Valves (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.3-253	Valves (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.3-a	3.1.1.B-25	A
3.3-253	Valves (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 1, 2
3.3-253	Valves (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.3-254	Valves (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program			H, 1
3.3-254	Valves (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	BWR Reactor Water Cleanup System Program			H

3.3-255	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 1, 2
3.3-255	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 1, 2
3.3-256	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature <140°F	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program			J
3.3-257	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	C, 5
3.3-257	Filters/Strainers	FLT PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.6-a	3.3.1.B-17	A
3.3-257	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.1-a	3.3.1.B-17	C, 11

3.3-257	Flow Elements	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	One-Time Inspection Program			H
3.3-257	Flow Elements	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.4-a	3.3.1.B-17	A
3.3-258	NSR piping, fittings, and equipment	PFASR E	Any	Raw Water Raw Water, Low Flow	Cracking Loss of Material	Open-Cycle Cooling Water System Program Systems Walkdown Program			J
3.3-258	Orifices	FR PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	One-Time Inspection Program			H
3.3-258	Orifices	FR PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.4-a	3.3.1.B-17	A
3.3-258	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-258	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.1-a	3.3.1.B-17	A

3.3-258	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.1-a	3.3.1.B-17	A
3.3-259	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	One-Time Inspection Program			H
3.3-259	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Open-Cycle Cooling Water System Program			H, 18
3.3-259	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.1-a	3.3.1.B-17	A
3.3-259	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Cracking	One-Time Inspection Program			H
3.3-259	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.1-a	3.3.1.B-17	A
3.3-259	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.5-a	3.3.1.B-17	A

3.3-259	Pumps	PB	Cast Austenitic Stainless Steel	Raw Water	Cracking	One-Time Inspection Program			H
3.3-259	Pumps	PB	Cast Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.4-a	3.3.1.B-17	C, 16
3.3-260	Temperature Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.1-a	3.3.1.B-17	C, 17
3.3-260	Temperature Elements	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	One-Time Inspection Program			H
3.3-260	Temperature Elements	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.1-a	3.3.1.B-17	C, 17
3.3-260	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.B-17	A
3.3-260	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.B-17	A

3.3-261	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	One-Time Inspection Program			H
3.3-261	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.B-17	A
3.3-261	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Cracking	One-Time Inspection Program			H
3.3-261	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water, Low Flow	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.2-a	3.3.1.B-17	A
3.3-262	Filters/Strainers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-262	Flow Elements	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-262	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			H, 9

3.3-262	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-262	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water	Loss of Material	Closed-Cycle Cooling Water System Program	VII.A4.4-a	3.3.1.B-15	B
3.3-262	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water	None	None			None
3.3-262	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-263	NSR piping, fittings, and equipment	PFASR E	Any	Demineralized Untreated Water Treated Water, temperature <140°F	Cracking Loss of Material	Closed-Cycle Cooling Water System Program Systems Walkdown Program Water Chemistry Control Program			J
3.3-263	Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-263	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3

3.3-263	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.B-03	A
3.3-263	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.1-a	3.2.1.B-02	B
3.3-263	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-263	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-264	Pumps	PB	Cast Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-264	Tanks	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-264	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	V.D2.1-e	3.2.1.B-03	C, 2

3.3-264	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	V.D2.3-b	3.2.1.B-02	B
3.3-264	Valves	PB	Cast Austenitic Stainless Steel	Air	None	None			None
3.3-264	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-264	Valves	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-264	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-265	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	C, 5
3.3-265	Filters/Strainers	FLT PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None

3.3-265	Flow Elements	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-266	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Fuel Oil without Water Contamination	None	None			None
3.3-266	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-266	Heat Exchangers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-266	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Fuel Oil without Water Contamination	None	None			None
3.3-266	Heat Exchangers	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-267	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3

3.3-267	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One- Time Inspection Program			G
3.3-267	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-267	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Fuel Oil without Water Contamination	None	None			None
3.3-267	Pumps	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-267	Tanks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.H1.4-b	3.3.1.B-23	E
3.3-267	Tanks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil	Loss of Material	Fuel Oil Chemistry Program One- Time Inspection Program	VII.H1.4-a	3.3.1.B-07	A
3.3-267	Tanks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil	Loss of Material	Fuel Oil Chemistry Program One- Time Inspection Program	VII.H2.5-a	3.3.1.B-07	A

3.3-268	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-268	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Fuel Oil without Water Contamination	None	None			None
3.3-268	Valves	PB	Wrought Austenitic Stainless Steel	Fuel Oil without Water Contamination	None	None			None
3.3-269	Bolting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	C, 5
3.3-269	Heat Exchangers	HT PB	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Heat Transfer	Open-Cycle Cooling Water System Program			F
3.3-269	Heat Exchangers	HT PB	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program			F
3.3-269	Heat Exchangers	HT PB	Copper Alloys (Zinc ≤ 15%)	Treated Water, temperature ≥ 140°F, but < 212°F	Loss of Heat Transfer	Closed-Cycle Cooling Water System Program			H

3.3-269	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Fuel Oil without Water Contamination	None	None			None
3.3-269	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Lubricating Oil	None	None			None
3.3-269	Heat Exchangers	HT PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	Closed-Cycle Cooling Water System Program			M
3.3-270	Heat Exchangers (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-270	Heat Exchangers (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-270	Heat Exchangers (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.C1.3-a	3.3.1.B-17	A
3.3-270	Heat Exchangers (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.H2.1-a	3.3.1.B-15	D, 6

3.3-270	Heat Exchangers (cont'd)	PB	Wrought Austenitic Stainless Steel	Fuel Oil without Water Contamination	None	None			None
3.3-270	Heat Exchangers (cont'd)	PB	Wrought Austenitic Stainless Steel	Lubricating Oil	None	None			None
3.3-270	Heat Exchangers (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Open-Cycle Cooling Water System Program			M
3.3-270	Heat Exchangers (cont'd)	PB	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program			F
3.3-270	Heat Exchangers (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	Closed-Cycle Cooling Water System Program			M
3.3-271	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-271	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.H2.2-a	3.3.1.B-05	A

3.3-271	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Exhaust	Loss of Material	One-Time Inspection Program	VII.H2.4-a	3.3.1.B-05	A
3.3-271	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Fuel Oil without Water Contamination	None	None			None
3.3-271	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.3-271	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program	VII.H2.1-b	3.3.1.B-17	A
3.3-271	Piping and Fittings	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F	Loss of Material	Closed-Cycle Cooling Water System Program	VII.C2.1-a	3.3.1.B-15	B
3.3-271	Pumps	PB	Gray Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-271	Pumps	PB	Gray Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F	Loss of Material	Selective Leaching of Materials Program			G

3.3-272	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.H2.2-a	3.3.1.B-05	A
3.3-272	Valves	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F	Loss of Material	Closed-Cycle Cooling Water System Program			G
3.3-272	Valves	PB	Copper Alloys (Zinc > 15%) and Aluminum Bronze	Lubricating Oil	None	None			None
3.3-272	Valves	PB	Wrought Austenitic Stainless Steel	Air	None	None			None
3.3-272	Valves	PB	Wrought Austenitic Stainless Steel	Fuel Oil without Water Contamination	None	None			None
3.3-272	Valves	PB	Wrought Austenitic Stainless Steel	Lubricating Oil	None	None			None
3.3-272	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	Closed-Cycle Cooling Water System Program			L

3.3-273	Filters/Strainers	PB	Cast Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-273	Flow Elements	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-273	Piping and Fittings	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-273	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Sodium Pentaborate Solution	None	None			None
3.3-273	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-274	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	B, 1
3.3-274	Pumps	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None

3.3-274	Orifices	FR PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-274	Tanks	PB	Wrought Austenitic Stainless Steel	Sodium Pentaborate Solution	None	None			None
3.3-274	Temperature Elements	PB	Wrought Austenitic Stainless Steel	Sodium Pentaborate Solution	None	None			None
3.3-275	Valves	NFS	Wrought Austenitic Stainless Steel	Dried Air or Gas	None	None			None
3.3-275	Valves	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.3-275	Valves	PB	Cast Austenitic Stainless Steel	Sodium Pentaborate Solution	None	None			None
3.3-275	Valves	PB	Cast Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None

3.3-275	Valves	PB	Wrought Austenitic Stainless Steel	Air, Moisture or Wetting, temperature <140°F	Loss of Material	One-Time Inspection Program			L	
3.3-275	Valves	PB	Wrought Austenitic Stainless Steel	Sodium Pentaborate Solution	None	None			None	
3.3-276	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None	
3.3-276	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-i	3.1.1.B-07	D, 1, 2	
3.3-277	Blowers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Preventive Maintenance Program	VII.F2.1-a	3.3.1.B-05	A	
3.3-277	Dampers (includes fire dampers)	NFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Fire Protection Program	VII.F2.1-a	3.3.1.B-05	A, 30	DSSA
3.3-277	Dampers (includes fire dampers)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.B-05	A, 23	

3.3-277	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	VII.F2.1-a	3.3.1.B-05	A
3.3-277	Ducting	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.B-05	A, 3
3.3-278	Unit Coolers	HT PB	Copper Alloys (Zinc ≤ 15%)	Air, Moisture or Wetting, temperature <140°F	Loss of Heat Transfer	Preventive Maintenance Program			H
3.3-278	Unit Coolers	HT PB	Copper Alloys (Zinc ≤ 15%)	Air, Moisture or Wetting, temperature <140°F	Loss of Material	Preventive Maintenance Program	VII.F2.2-a	3.3.1.B-05	A
3.3-278	Unit Coolers	HT PB	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Heat Transfer	Open-Cycle Cooling Water System Program			F
3.3-278	Unit Coolers	HT PB	Copper Alloys (Zinc ≤ 15%)	Raw Water	Loss of Material	Open-Cycle Cooling Water System Program			F
3.3-278	Unit Coolers	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, Moisture or Wetting, temperature <140°F	Loss of Material	Preventive Maintenance Program	VII.F2.1-a	3.3.1.B-05	A

3.4-25	Condensate Demineralizers	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, Temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.6-a	3.4.1.A-02	B
3.4-25	Filters/Strainers	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, Temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.6-a	3.4.1.A-02	B
3.4-25	Filters/Strainers	NFS	Wrought Austenitic Stainless Steel	Treated Water, Temperature < 140°F	None	None			None
3.4-25	Flow Elements	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, Temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.1-b	3.4.1.A-02	D, 3
3.4-26	Flow Gauges	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.1-b	3.4.1.A-02	D, 2
3.4-26	Flow Indicators	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.4-26	Flow Orifices	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None

3.4-26	Level Observation Glasses	NFS	Glass	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.4-26	Main Condenser	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.4-a	3.4.1.A-02	B
3.4-27	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature < 140°F Treated Water, temperature < 140°F, Low Flow Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program			J
3.4-27	Piping and Fittings	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.4-27	Piping and Fittings	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.1-b	3.4.1.A-02	B
3.4-28	Piping and Fittings (cont'd)	NFS	Polymers	Treated Water, temperature < 140°F	Cracking	Preventive Maintenance Program			J
3.4-28	Piping and Fittings (cont'd)	NFS	Polymers	Treated Water, temperature < 140°F	Loss of Strength	Preventive Maintenance Program			J

3.4-28	Piping and Fittings (cont'd)	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.4-28	Piping and Fittings (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VIII.H.1-b	3.4.1.A-05	A, 1
3.4-28	Piping and Fittings (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.1-b	3.4.1.A-02	B
3.4-28	Piping and Fittings (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.1-b	3.4.1.A-02	B
3.4-28	Piping and Fittings (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.4-29	Pumps	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.3-a	3.4.1.A-02	B
3.4-29	Pumps	PB	Gray Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Selective Leaching of Materials Program Water Chemistry Control Program			F

3.4-29	Tanks	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.4-30	Valves	NFS	Aluminum alloys containing copper or zinc as the primary alloying elements	Treated Water, temperature < 140°F	Cracking	One-Time Inspection Program Water Chemistry Control Program			M
3.4-30	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.4-30	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.4-30	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.2-b	3.4.1.A-02	B
3.4-30	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.2-b	3.4.1.A-02	B
3.4-30	Valves	NFS	Copper Alloys (Zinc ≤ 15%)	Treated Water, temperature < 140°F	None	None			None

3.4-31	Valves (cont'd)	NFS	Gray Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Selective Leaching of Materials Program Water Chemistry Control Program			F
3.4-31	Valves (cont'd)	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.4-31	Valves (cont'd)	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.4-31	Valves (cont'd)	PB	Aluminum alloys containing copper or zinc as the primary alloying elements	Treated Water, temperature < 140°F	Cracking	One-Time Inspection Program Water Chemistry Control Program			M
3.4-31	Valves (cont'd)	PB	Aluminum alloys containing copper or zinc as the primary alloying elements	Treated Water, temperature < 140°F, Low Flow	Cracking	One-Time Inspection Program Water Chemistry Control Program			M
3.4-32	Valves (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.2-b	3.4.1.A-02	B
3.4-32	Valves (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.2-b	3.4.1.A-02	B

3.4-32	Valves (cont'd)	PB	Cast Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.4-32	Valves (cont'd)	PB	Copper Alloys (Zinc ≤ 15%)	Treated Water, temperature < 140°F	None	None			None
3.4-32	Valves (cont'd)	PB	Copper Alloys (Zinc ≤ 15%)	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.4-32	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F	None	None			None
3.4-32	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None			None
3.4-33	Bolting	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program			G
3.4-33	Bolting	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			G

3.4-33	Bolting	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program			G
3.4-33	Bolting	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			G
3.4-33	Feedwater Heaters	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature <140°F	None	None			None
3.4-33	Feedwater Heaters	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature ≥ 140°F, but < 212°F	Cracking	One-Time Inspection Program Water Chemistry Control Program			Q
3.4-34	Feedwater Heaters (cont'd)	NFS	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program One-Time Inspection Program Water Chemistry Control Program			Q
3.4-34	Filters/Strainers	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.4-34	Filters/Strainers	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.1-b	3.4.1.A-02	D, 4

3.4-34	Flow Elements	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.1-b	3.4.1.A-02	D, 3
3.4-34	Flow Elements	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	VIII.D2.1-c	3.4.1.A-01	C, 3
3.4-34	Flow Elements	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	VIII.D2.1-a	3.4.1.A-06	C, 3
3.4-35	Flow Indicators	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.1-b	3.4.1.A-02	D, 12
3.4-35	Flow Orifices	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature <140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.1-b	3.4.1.A-02	D, 5
3.4-35	Flow Orifices	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	VIII.D2.1-c	3.4.1.A-01	C, 5
3.4-35	Flow Orifices	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	VIII.D2.1-a	3.4.1.A-06	C, 5

3.4-35	Flow Orifices	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	Fatigue Monitoring Program	VIII.D2.1-c	3.4.1.A-01	C, 5
3.4-35	Flow Orifices	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.1-b	3.4.1.A-02	D, 5
3.4-36	NSR piping, fittings, and equipment	PFASR E	Any	Demineralized Untreated Water Treated Water, temperature < 140°F Treated Water, temperature < 140°F, Low Flow Treated Water, temperature ≥ 140°F, but < 212°F Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Cracking Loss of Mat erial	Systems Walkdown Program Water Chemistry Control Program			J
3.4-37	NSR piping, fittings, and equipment (cont'd)	PFASR E	Any	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking Loss of Mat erial	Systems Walkdown Program Water Chemistry Control Program			J
3.4-37	NSR piping, fittings, and equipment (cont'd)	PFASR E	Any	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking Loss of Mat erial	Flow-Accelerated Corrosion Program Systems Walkdown Program Water Chemistry Control Program			J, 15

3.4-37	Oil Coolers	NFS	Copper Alloys (Zinc ≤ 15%)	Demineralized Untreated Water, Low Flow	Loss of Material	Closed-Cycle Cooling Water System Program			Q
3.4-37	Oil Coolers	NFS	Copper Alloys (Zinc ≤ 15%)	Lubricating Oil	None	None			None
3.4-38	Piping and Fittings	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.4-38	Piping and Fittings	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-d	3.1.1.A-01	A
3.4-38	Piping and Fittings	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.1-c	3.1.1.A-25	A
3.4-38	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VIII.H.1-b	3.4.1.A-05	A, 1
3.4-38	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-d	3.1.1.A-01	A

3.4-38	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.1-c	3.1.1.A-25	A
3.4-38	Pumps	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.4-38	Pumps	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.3-b	3.4.1.A-02	B
3.4-39	Pumps (cont'd)	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	VIII.D2.1-c	3.4.1.A-01	C, 6
3.4-39	Pumps (cont'd)	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	VIII.D2.3-a	3.4.1.A-06	A
3.4-39	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Lubricating Oil	None	None			None
3.4-39	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.2-b	3.4.1.A-02	B

3.4-39	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.2-b	3.4.1.A-02	B
3.4-39	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature ≥ 140°F, but < 212°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.2-b	3.4.1.A-02	B
3.4-40	Valves (cont'd)	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	VIII.D2.1-c	3.4.1.A-01	C, 7
3.4-40	Valves (cont'd)	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	VIII.D2.2-a	3.4.1.A-06	A
3.4-40	Valves (cont'd)	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	Fatigue Monitoring Program	VIII.D2.1-c	3.4.1.A-01	C, 7
3.4-40	Valves (cont'd)	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.2-b	3.4.1.A-02	B
3.4-40	Valves (cont'd)	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	VIII.D2.1-c	3.4.1.A-01	C, 7

3.4-40	Valves (cont'd)	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.2-b	3.4.1.A-02	B
3.4-41	Valves (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.2-b	3.4.1.A-02	B
3.4-41	Valves (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.4-41	Valves (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.3-a	3.1.1.A-25	A
3.4-41	Valves (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.4-41	Valves (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	Fatigue Monitoring Program	VIII.D2.1-c	3.4.1.A-01	C, 7
3.4-41	Valves (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.2-b	3.4.1.A-02	B

3.4-42	Bolting	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	C, 11
3.4-42	Piping and Fittings	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.4-42	Piping and Fittings	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VII.I.1-b	3.3.1.A-05	A, 1
3.4-42	Tanks	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.4-42	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Dried Air or Gas	None	None			None
3.4-43	Bolting	PB	Carbon Steel, Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program			G
3.4-43	Bolting	PB	Carbon Steel, Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program			G

3.4-43	Condensing Pots	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.A-01	C, 8
3.4-43	Condensing Pots	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program Water Chemistry Control Program			Q
3.4-43	Flow Elements	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-b	3.1.1.A-01	C, 3
3.4-43	Flow Elements	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.1-a	3.1.1.A-25	C, 3
3.4-44	NSR piping, fittings, and equipment	PFASRE	Any	Demineralized Untreated Water, Low Flow Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program			J
3.4-44	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water or Steam, temperature ≥ 482°F	Cracking Loss of Material	Flow-Accelerated Corrosion Program Systems Walkdown Program Water Chemistry Control Program			J, 15
3.4-45	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	V.D.2.1-e	3.2.1.A-03	A

3.4-45	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	V.E.1-b	3.2.1.A-10	A, 1
3.4-45	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VIII.H.1-b	3.4.1.A-05	A, 1
3.4-45	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	One-Time Inspection Program	V.D.2.1-e	3.2.1.A-03	A
3.4-45	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-b	3.1.1.A-01	A
3.4-45	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.1-a	3.1.1.A-25	A
3.4-45	Piping and Fittings	PB	Nickel Based Alloys	Air	None	None			None
3.4-45	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.A-01	A

3.4-45	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program One-Time Inspection Program Water Chemistry Control Program	IV.C1.1-l	3.1.1.A-07	B
3.4-46	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	V.D.2.1-e	3.2.1.A-03	C, 7
3.4-46	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.4-46	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	VIII.B2.1-c	3.4.1.A-01	C, 7
3.4-46	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.3-a	3.1.1.A-25	A
3.4-46	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	VIII.B2.2-a	3.4.1.A-06	A
3.4-46	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A

3.4-46	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.2-b	3.4.1.A-02	B
3.4-46	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	One-Time Inspection Program Water Chemistry Control Program	IV.C1.3-c	3.1.1.A-29	E
3.4-46	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.4-46	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	One-Time Inspection Program Water Chemistry Control Program	IV.C1.3-c	3.1.1.A-29	E
3.4-46	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.A-01	A
3.4-47	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature < 140°F, Low Flow Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program		-	J
3.4-48	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature < 140°F, Low Flow	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program		-	J

3.4-48	Piping and Fittings	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VIII.H.1-b	3.4.1.B-05	A, 1
3.4-48	Piping and Fittings	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.1-b	3.4.1.B-02	B
3.4-48	Piping and Fittings	NFS	Polymers	Treated Water, temperature < 140°F, Low Flow	Cracking	Preventive Maintenance Program		-	J
3.4-48	Piping and Fittings	NFS	Polymers	Treated Water, temperature < 140°F, Low Flow	Loss of Strength	Preventive Maintenance Program		-	J
3.4-48	Piping and Fittings	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.4-48	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.4-49	Tanks	NFS	Polymers	Air	Cracking	Systems Walkdown Program		-	M, 13

3.4-49	Tanks	NFS	Polymers	Air	Hardening and Shrinkage	Systems Walkdown Program		-	M, 13
3.4-49	Tanks	NFS	Polymers	Air	Loss of Strength	Systems Walkdown Program		-	M, 13
3.4-49	Tanks	NFS	Polymers	Treated Water, temperature < 140°F, Low Flow	Cracking	One-Time Inspection Program		-	M
3.4-49	Tanks	NFS	Polymers	Treated Water, temperature < 140°F, Low Flow	Loss of Strength	One-Time Inspection Program		-	M
3.4-49	Valves	NFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.4-49	Valves	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.4-50	Bolting	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program		-	G

3.4-50	Bolting	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program		-	G
3.4-50	NSR piping, fittings, and equipment	PFASR E	Any	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking Loss of Mat erial	Systems Walkdown Program Water Chemistry Control Program		-	J
3.4-51	NSR piping, fittings, and equipment (cont'd)	PFASR E	Any	Treated Water or Steam, temperature ≥ 212°F, but < 482°F Treated Water or Steam, temperature ≥ 482°F	Cracking Loss of Mat erial	Flow-Accelerated Corrosion Program Systems Walkdown Program Water Chemistry Control Program		-	J, 15
3.4-51	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VIII.H.1-b	3.4.1.B.-05	A, 1
3.4-51	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-d	3.1.1.B-01	A
3.4-51	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.1-c	3.1.1.B-25	A

3.4-51	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	VIII.D2.1-a	3.4.1.B-06	A
3.4-51	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-d	3.1.1.B-01	A
3.4-51	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.1-c	3.1.1.B-25	A
3.4-52	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.4-52	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.3-a	3.1.1.B-25	A
3.4-52	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.4-52	Valves	NFS	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.2-b	3.4.1.B-02	B

3.4-52	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.4-52	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.3-a	3.1.1.B-25	A
3.4-52	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.4-52	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 212°F, but < 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.2-b	3.4.1.B-02	B
3.4-53	Valves (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.4-53	Valves (cont'd)	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.D2.2-b	3.4.1.B-02	B
3.4-54	"T" Quenchers	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water, Low Flow	Loss of Material	One-Time Inspection Program		-	H, 14

3.4-54	Bolting	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Cracking	Fatigue Monitoring Program		-	G
3.4-54	Bolting	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Closure Bolting for Non-Borated Water Systems with operating temperatures ≥ 212°F	Loss of Material	ASME Section XI Inservice Inspection (Subsections IWB, IWC, IWD) Program		-	G
3.4-54	Condensing Chambers	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	BWR Stress Corrosion Cracking Program Water Chemistry Control Program	IV.C1.1-f	3.1.1.B-29	D, 9
3.4-54	Condensing Chambers	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.B-01	C, 9
3.4-54	Flexible Hose	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	V.D.2.1-b	3.2.1.B-01	A
3.4-54	Flexible Hose	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	BWR Stress Corrosion Cracking Program Water Chemistry Control Program	V.D.2.1-c	3.2.1.B-16	B
3.4-55	Flow Elements	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-b	3.1.1.B-01	C, 3

3.4-55	Flow Elements	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.1-a	3.1.1.B-25	C, 3
3.4-55	NSR piping, fittings, and equipment	PFASRE	Any	Demineralized Untreated Water, Low Flow Treated Water, temperature < 140°F, Low Flow Treated Water or Steam, temperature ≥ 212°F, but < 482°F	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program		-	J
3.4-55	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water or Steam, temperature ≥ 482°F Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking Loss of Material	Flow-Accelerated Corrosion Program Systems Walkdown Program Water Chemistry Control Program		-	J, 15
3.4-56	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	V.D.2.1-e	3.2.1.B-03	A
3.4-56	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Systems Walkdown Program	VIII.H.1-b	3.4.1.B.-05	A, 1
3.4-56	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.1-b	3.1.1.B-01	A

3.4-56	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.1-a	3.1.1.B-25	A
3.4-56	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.1-b	3.1.1.B-01	A
3.4-56	Piping and Fittings	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.B2.1-a	3.4.1.B-07	E
3.4-56	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.4-56	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Demineralized Untreated Water, Low Flow	Loss of Material	One-Time Inspection Program		-	H, 14
3.4-56	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	BWR Stress Corrosion Cracking Program Water Chemistry Control Program	IV.C1.1-f	3.1.1.B-29	B
3.4-56	Piping and Fittings	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.B-01	A

3.4-57	Restriction Orifices	FR	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	BWR Stress Corrosion Cracking Program Water Chemistry Control Program	IV.C1.1-f	3.1.1.B-29	D, 10
3.4-57	Restriction Orifices	FR	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.1-h	3.1.1.B-01	C, 10
3.4-57	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program	V.D.2.1-e	3.2.1.B-03	C, 7
3.4-57	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water, temperature < 140°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.E.2-b	3.4.1.B-02	B
3.4-57	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.4-57	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F	Loss of Material	Flow-Accelerated Corrosion Program	IV.C1.3-a	3.1.1.B-25	A
3.4-57	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A

3.4-57	Valves	PB	Carbon Steel, Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Loss of Material	One-Time Inspection Program Water Chemistry Control Program	VIII.B2.2-b	3.4.1.B-07	E
3.4-58	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.4-58	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	BWR Stress Corrosion Cracking Program Water Chemistry Control Program	IV.C1.3-c	3.1.1.B-29	B
3.4-58	Valves (cont'd)	PB	Wrought Austenitic Stainless Steel	Treated Water or Steam, temperature ≥ 482°F, Low Flow	Cracking	Fatigue Monitoring Program	IV.C1.3-d	3.1.1.B-01	A
3.4-60	NSR piping, fittings, and equipment	PFASRE	Any	Treated Water, temperature <140°F	Cracking Loss of Material	Systems Walkdown Program Water Chemistry Control Program		-	J
3.4-60				Treated Water or Steam, temperature ≥ 212°F, but < 482°F Treated Water or Steam, temperature ≥ 482°F	Cracking Loss of Material	Flow-Accelerated Corrosion Program Systems Walkdown Program Water Chemistry Control Program		-	J, 15
3.5-66	Airlocks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.2-a	3.5.1.A-04	B

3.5-66	Airlocks	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Leak Tightness	10 CFR 50 Appendix J Program	II.B4.2-b	3.5.1.A-05	A, 3
3.5-66	Concrete in Air	SFS SNSR	Concrete	Air	None	Structures Monitoring Program		-	H, 6
3.5-66	Equipment Hatches (including stabilizers)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.2-a	3.5.1.A-04	B
3.5-66	Expansion Joints (Mechanical)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B1.1.1-a	3.5.1.A-12	D, 4
3.5-66	Expansion Joints (Mechanical)	PB	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-67	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A4.2-a	3.5.1.A-20	A
3.5-67	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H

3.5-67	Fasteners (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A4.2-a	3.5.1.A-20	A
3.5-67	Fasteners (High Strength Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Structures Monitoring Program	III.A4.2-a	3.5.1.A-20	A
3.5-67	Fasteners (High Strength Carbon and Low Alloy Steel) in Demineralized Untreated Water, Low Flow	SFS	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Demineralized Untreated Water, Low Flow	Cracking	One-Time Inspection Program		-	H
3.5-67	Fasteners (High Strength Carbon and Low Alloy Steel) in Demineralized Untreated Water, Low Flow	SFS	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Demineralized Untreated Water, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsection IWE) Program	III.A4.2-a	3.5.1.A-20	E
3.5-68	Piping (Mechanical)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B1.1.1-a	3.5.1.A-12	D, 4
3.5-68	Piping (Mechanical)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program One-Time Inspection Program		-	Q, 5

3.5-68	Polymer in Air	PB SP	Polymers	Air	Cracking	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.3-a	3.5.1.A-06	B
3.5-69	Polymer in Air (cont'd)	PB SP	Polymers	Air	Hardening and Shrinkage	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.3-a	3.5.1.A-06	B
3.5-69	Polymer in Air (cont'd)	PB SP	Polymers	Air	Loss of Strength	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.3-a	3.5.1.A-06	B
3.5-69	Structural Steel (Carbon and Low Alloy Steel) in Air	MB PB SP SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A4.2-a	3.5.1.A-20	A
3.5-69	Structural Steel (Carbon and Low Alloy Steel) in Air	MB PB SP SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B1.1.1-a	3.5.1.A-12	B
3.5-69	Structural Steel (Carbon and Low Alloy Steel) in Air	MB PB SP SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.1-a	3.5.1.A-03	B

3.5-70	Structural Steel (Carbon and Low Alloy Steel) in Demineralized Untreated Water, Low Flow	FPB PB SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B1.1.1-a	3.5.1.A-12	B
3.5-70	Structural Steel (Carbon and Low Alloy Steel) in Demineralized Untreated Water, Low Flow	FPB PB SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.1-a	3.5.1.A-03	B
3.5-70	Structural Steel (Carbon and Low Alloy Steel) in Demineralized Untreated Water, Low Flow	FPB PB SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Torus Corrosion Monitoring Program Water Chemistry Control Program	II.B1.1.1-a	3.5.1.A-12	E
3.5-70	Structural Steel (Carbon and Low Alloy Steel) in Demineralized Untreated Water, Low Flow	FPB PB SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Demineralized Untreated Water, Low Flow	Loss of Material	Water Chemistry Control Program	II.B4.1-a	3.5.1.A-03	E
3.5-70	Structural Steel (Wrought Austenitic Stainless Steel) in Air	PB SFS	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-70	Structural Steel (Wrought Austenitic Stainless Steel) in Demineralized Untreated	SFS	Wrought Austenitic Stainless Steel	Demineralized Untreated Water, Low Flow	Loss of Material	ASME Section XI Inservice Inspection (Subsection IWE) Program		-	Q

	Water, Low Flow								
3.5-71	Valves (Mechanical)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B1.1.1-a	3.5.1.A-12	D, 4
3.5-71	Valves (Mechanical)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	One-Time Inspection Program		-	Q, 5
3.5-71	Valves (Mechanical)	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None		-	None
3.5-71	Valves (Mechanical)	PB	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-72	Aluminum Alloys in Air	FP	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None		-	None
3.5-72	Aluminum Alloys in Treated Water	FP SNSR	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Treated Water, temperature < 140°F, Low Flow	None	None		-	None

3.5-72	Block Wall in Air	FB PB	Masonry Walls	Air	Cracking	Masonry Wall Program	III.A2.3-a	3.5.1.A-24	A
3.5-72	Boraflex in Treated Water	AN	Boraflex	Treated Water, temperature < 140°F, Gamma Irradiation	Change in Dimensions	Boraflex Monitoring Program		-	H
3.5-72	Boraflex in Treated Water	AN	Boraflex	Treated Water, temperature < 140°F, Gamma Irradiation	Loss of Neutron Absorbing Capacity	Boraflex Monitoring Program	VII.A2.1-a	3.3.1.A-12	B
3.5-72	Boral in Treated Water	AN	Boral	Treated Water, temperature < 140°F, Gamma Irradiation	None	None		-	None
3.5-73	Concrete in Air	FB SP SNSR SFS	Concrete	Air	None	Fire Protection Program Structures Monitoring Program		-	H, 6
3.5-73	Concrete in Soil Above the GWT	SP SNSR SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-73	Concrete in Soil Below the GWT	SP SNSR SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6

3.5-73	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.A-20	C, 1
3.5-73	Doors	FB PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.A-20	C, 1
3.5-74	Doors (cont'd)	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.A-20	A
3.5-74	Doors (cont'd)	PB SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.A-20	A
3.5-74	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.A-20	A
3.5-74	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H
3.5-74	Fasteners (Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.A-20	A

3.5-74	Fasteners (Wrought Austenitic Stainless Steel) in Air	SFS	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-75	Fasteners (Wrought Austenitic Stainless Steel) in Treated Water	SFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.5-75	Metal Siding in Air	PB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None		-	None
3.5-76	Polymer in Air	PB SP	Polymers	Air	Cracking	Structures Monitoring Program		-	J
3.5-76	Polymer in Air	PB SP	Polymers	Air	Hardening and Shrinkage	Structures Monitoring Program		-	J
3.5-76	Polymer in Air	PB SP	Polymers	Air	Loss of Strength	Structures Monitoring Program		-	J
3.5-76	Polymer in Treated Water	PB	Polymers	Treated Water, temperature < 140°F, Low Flow	Cracking	Structures Monitoring Program		-	J

3.5-76	Polymer in Treated Water	PB	Polymers	Treated Water, temperature < 140°F, Low Flow	Loss of Strength	Structures Monitoring Program		-	J
3.5-76	Rock Anchors (Carbon and Low Alloy Steel) in Soil Below the GWT	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Soil, below the water table	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.A-20	A
3.5-76	Structural Steel (Carbon and Low Alloy Steel) in Air	FB FPB MB PB SP SFS TS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.A-20	A
3.5-76	Structural Steel (Wrought Austenitic Stainless Steel) in Treated Water	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.5-77	Torus Support Columns	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	ASME Section XI Inservice Inspection (Subsection IWF) Program	III.B1.3.1-a	3.5.1.A-32	B
3.5-78	Concrete in Air	FB SFS SNSR	Concrete	Air	None	Fire Protection Program Structures Monitoring Program		-	H, 6
3.5-78	Concrete in Soil Above the GWT	SFS SNSR	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6

3.5-78	Concrete in Soil Below the GWT	SNSR	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-78	Fasteners (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-78	Polymer in Air, Relative Motion (Bearing Plate)	SNSR	Polymers	Air, relative motion between components	Cracking	Structures Monitoring Program		-	J
3.5-78	Polymer in Air, Relative Motion (Bearing Plate)	SNSR	Polymers	Air, relative motion between components	Hardening and Shrinkage	Structures Monitoring Program		-	J
3.5-78	Polymer in Air, Relative Motion (Bearing Plate)	SNSR	Polymers	Air, relative motion between components	Loss of Material	Structures Monitoring Program		-	J
3.5-78	Polymer in Air, Relative Motion (Bearing Plate)	SNSR	Polymers	Air, relative motion between components	Loss of Strength	Structures Monitoring Program		-	J
3.5-79	Structural Steel (Carbon and Low Alloy Steel) in Air	SP SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A

3.5-80	Fasteners (Wrought Austenitic Stainless Steel) in Treated Water	SFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.5-80	Spent Fuel Racks	SFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.5-80	Structural Steel (Wrought Austenitic Stainless Steel) in Treated Water	SFS SNSR	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.5-81	Crane (Reactor Building)	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Inspection of Overhead Heavy Load and Light Load Handling Systems Program	VII.B.1-b	3.3.1.A-16	A
3.5-81	Hoists	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Inspection of Overhead Heavy Load and Light Load Handling Systems Program	VII.B.1-b	3.3.1.A-16	A
3.5-82	Block Wall in Air	FB	Masonry Walls	Air	Cracking	Masonry Wall Program	III.A3.3-a	3.5.1.A-24	A
3.5-82	Concrete in Air	FB SFS SNSR	Concrete	Air	None	Fire Protection Program Structures Monitoring Program		-	H, 6

3.5-82	Concrete in Soil Above the GWT	SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-82	Concrete in Soil Below the GWT	SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-82	Concrete Lean Fill in Soil Below the GWT	SNSR	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-82	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.A-20	C, 1
3.5-82	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-82	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H
3.5-83	Fasteners (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A

3.5-83	Fasteners (Wrought Austenitic Stainless Steel) in Air	SNSR	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-83	Structural Steel (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-84	Block Wall in Air	FB TS	Masonry Walls	Air	Cracking	Masonry Wall Program	III.A3.3-a	3.5.1.A-24	A
3.5-84	Concrete in Air	DF FB FP SNSR TS	Concrete	Air	None	Fire Protection Program Structures Monitoring Program		-	H, 6
3.5-84	Concrete in Soil Above the GWT	FP SNSR	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-84	Concrete in Soil Below the GWT	FP SNSR	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-84	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.A-20	C, 1

3.5-84	Fasteners (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-84	Fasteners (High Strength Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-85	Polymer in Air	GDP	Polymers	Air	Cracking	Structures Monitoring Program		-	J
3.5-85	Polymer in Air	GDP	Polymers	Air	Hardening and Shrinkage	Structures Monitoring Program		-	J
3.5-85	Polymer in Air	GDP	Polymers	Air	Loss of Strength	Structures Monitoring Program		-	J
3.5-85	Structural Steel (Carbon and Low Alloy Steel) in Air	FP PB SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-86	Block Wall in Air	FB	Masonry Walls	Air	Cracking	Masonry Wall Program	III.A3.3-a	3.5.1.A-24	A

3.5-86	Concrete in Air	FB SP SFS SNSR	Concrete	Air	None	Fire Protection Program Structures Monitoring Program		-	H, 6
3.5-86	Concrete in Raw Water	SP SFS SNSR	Concrete	Raw Water	None	Structures Monitoring Program		-	H, 6
3.5-86	Concrete in Soil Above the GWT	SP SFS SNSR	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-86	Concrete in Soil Below the GWT	SP	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-86	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.1-d	3.3.1.A-20	A
3.5-86	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-86	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H

3.5-87	Fasteners (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-87	Fasteners (Carbon and Low Alloy Steel) in Raw Water	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-87	Structural Steel (Carbon and Low Alloy Steel) in Air	FB SP SNSR SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-87	Structural Steel (Carbon and Low Alloy Steel) in Raw Water	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-88	Structural Steel (Carbon and Low Alloy Steel) in Soil Above the GWT	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Soil, above the water table	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-88	Structural Steel (Carbon and Low Alloy Steel) in Soil Below the GWT	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Soil, below the water table	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-89	Block Wall in Air	FB RS	Masonry Walls	Air	Cracking	Masonry Wall Program	III.A3.3-a	3.5.1.A-24	A

3.5-89	Concrete in Air	FB RS SP SFS SNSR	Concrete	Air	None	Fire Protection Program Structures Monitoring Program		-	H, 6
3.5-89	Concrete in Soil Above the GWT	SP SFS SNSR	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-89	Concrete in Soil Below the GWT	SP SFS SNSR	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-89	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.2-d	3.3.1.A-20	A
3.5-89	Doors	FB SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.2-d	3.3.1.A-20	A
3.5-90	Doors (cont'd)	SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-90	Doors (cont'd)	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A

3.5-90	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-90	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H
3.5-90	Fasteners (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-91	Structural Steel (Carbon and Low Alloy Steel) in Air	SP SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-92	Concrete in Air	FB GDP SFS	Concrete	Air	None	Fire Protection Program Structures Monitoring Program		-	H, 6
3.5-92	Concrete in Soil Below the GWT	GDP SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-92	Structural Steel (Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	C, 2

3.5-93	Block Wall in Air	FB	Masonry Walls	Air	Cracking	Masonry Wall Program	III.A3.3-a	3.5.1.A-20	A
3.5-93	Concrete in Air	DF FB FP SP SFS SNSR	Concrete	Air	None	Fire Protection Program Structures Monitoring Program		-	H, 6
3.5-93	Concrete in Soil Above the GWT	FP SP SFS SNSR	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-93	Concrete in Soil Below the GWT	FP SP SFS SNSR	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-93	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.A-20	C, 1
3.5-94	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-94	Expansion/ Grouted Anchors (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H

3.5-94	Fasteners (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-94	Fasteners (Wrought Austenitic Stainless Steel) in Air	SNSR	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-94	Polymer in Air	FP	Polymers	Air	Cracking	Structures Monitoring Program		-	J
3.5-94	Polymer in Air	FP	Polymers	Air	Hardening and Shrinkage	Structures Monitoring Program		-	J
3.5-94	Polymer in Air	FP	Polymers	Air	Loss of Strength	Structures Monitoring Program		-	J
3.5-94	Structural Steel (Carbon and Low Alloy Steel) in Air	FB FP SP SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.A-20	A
3.5-95	Structural Steel (Wrought Austenitic Stainless Steel) in Air	SNSR	Wrought Austenitic Stainless Steel	Air	None	None		-	None

3.5-96	Air Locks	FPB, MB, PB, RS, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	10 CFR 50 Appendix J Program, ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.2-a	3.5.1.B-04	B
3.5-96	Aluminum Alloy in Air	PWR	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None		-	None
3.5-96	Biological Shield Wall Doors	HELB, RS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A
3.5-96	Concrete in Air	HELB, MB, PB, RS, SP, SFS	Concrete	Air	None	ASME Section XI Inservice Inspection (Subsection IWL) Program, Structures Monitoring Program		-	H, 6
3.5-97	Drywell Head (including stainless steel elements)	FPB, MB, PB, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program, ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B2.2.2-a	3.5.1.B-12	B
3.5-97	Drywell Head (including stainless steel elements)	FPB, MB, PB, SP	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-97	Drywell Head Closure Pins	FPB, PB, SFS	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air	None	None		-	None

3.5-97	Drywell Head Fasteners	SNSR	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air	None	None		-	None
3.5-97	Fasteners (High Strength Carbon and Low Alloy Steel) in Air	PWR, SFS	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Structures Monitoring Program	III.A4.2-a	3.5.1.B-20	A
3.5-97	Fasteners (High Strength Carbon and Low Alloy Steel) in Air	PWR, SFS	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	ASME Section XI Inservice Inspection (Subsection IWE) Program		-	Q
3.5-98	Fasteners (Precipitation Hardenable)	PWR	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air	None	None		-	None
3.5-98	Hatches	FPB, MB, PB, RS, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program, ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.2-a	3.5.1.B-04	B
3.5-98	Hatches	FPB, MB, PB, RS, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	10 CFR 50 Appendix J Program, ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.2-a	3.5.1.B-04	B
3.5-98	Hatches	FPB, MB, PB, RS, SP	Wrought Austenitic Stainless Steel	Air	None	None		-	None

3.5-98	Impingement and Jet Shielding	DF, HELB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A4.2-a	3.5.1.B-20	A
3.5-99	Inner Refueling Seal	SNSR	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-99	Polymer in Air	DF, PB	Polymers	Air	Cracking	10 CFR 50 Appendix J Program, ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.3-a	3.5.1.B-06	B
3.5-99	Polymer in Air	DF, PB	Polymers	Air	Hardening and Shrinkage	10 CFR 50 Appendix J Program, ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.3-a	3.5.1.B-06	B
3.5-99	Polymer in Air	DF, PB	Polymers	Air	Loss of Strength	10 CFR 50 Appendix J Program, ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.3-a	3.5.1.B-06	B
3.5-100	Refueling Bulkhead	PB, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Air	None	None		-	None
3.5-100	Star Truss	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A4.2-a	3.5.1.B-20	A

3.5-100	Structural Steel (Carbon and Low Alloy Steel) in Air	HELB, MB, PWR, PB, RS, SP, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program, ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B2.2.2-a	3.5.1.B-12	B
3.5-100	Structural Steel (Carbon and Low Alloy Steel) in Air	HELB, MB, PWR, PB, RS, SP, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	10 CFR 50 Appendix J Program, ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.1-a	3.5.1.B-03	B
3.5-100	Structural Steel (Carbon and Low Alloy Steel) in Air	HELB, MB, PWR, PB, RS, SP, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A4.2-a	3.5.1.B-20	A
3.5-100	Structural Steel (Carbon/Low Alloy Clad with Stainless Steel) in Air	HELB, MB, PB, SP, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Air	None	None		-	None
3.5-101	Structural Steel (Carbon/Low Alloy Clad with Stainless Steel) in Demineralized Untreated Water	HELB, MB, PB, SP, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) (Clad with Stainless Steel)	Demineralized Untreated Water, Low Flow	Loss of Material	10 CFR 50 Appendix J Program, ASME Section XI Inservice Inspection (Subsection IWE) Program	II.B4.1-a	3.5.1.B-03	B
3.5-101	Structural Steel (Wrought Austenitic Stainless Steel) in Air	DF, HELB, MB, PWR, PB, SP, SFS	Wrought Austenitic Stainless Steel	Air	None	None		-	None

3.5-101	Structural Steel (Wrought Austenitic Stainless Steel) in Demineralized Untreated Water	DF, HELB, MB, PB, SP, SFS	Wrought Austenitic Stainless Steel	Demineralized Untreated Water, Low Flow	Loss of Material	10 CFR 50 Appendix J Program, ASME Section XI Inservice Inspection (Subsection IWE) Program		-	H
3.5-102	Aluminum Alloy in Air	SP	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None		-	None
3.5-102	Boraflex in Treated Water	AN	Boraflex	Treated Water, temperature < 140°F, Gamma Irradiation	Change in Dimensions	Boraflex Monitoring Program		-	H
3.5-102	Boraflex in Treated Water	AN	Boraflex	Treated Water, temperature < 140°F, Gamma Irradiation	Loss of Neutron Absorbing Capacity	Boraflex Monitoring Program	VII.A2.1-a	3.3.1.B-12	B
3.5-102	Boral in Treated Water	AN	Boral	Treated Water, temperature < 140°F, Gamma Irradiation	None	None		-	None
3.5-102	Concrete in Air (includes removable floor/wall)	DF, FB, FP, HELB, MB, PB, RS, SP, SFS, SNSR	Concrete	Air	None	Fire Protection Program, Structures Monitoring Program		-	H, 6

3.5-103	Concrete in Soil Above the GWT	FP, PB, SP, SFS, SNSR	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-103	Concrete in Soil Below the GWT	FP, PB, SP, SFS, SNSR	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-103	Concrete Lean Fill in Soil Below the GWT	SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-104	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1
3.5-104	Doors	FB, FP, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1
3.5-104	Doors	FB, PB, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1
3.5-104	Doors	FB, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1

3.5-105	Doors	FP, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A
3.5-105	Doors	PB, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A
3.5-105	Doors	RS, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A
3.5-105	Doors	RS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A
3.5-106	Doors	SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A
3.5-106	Doors	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A
3.5-106	Expansion/	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A

3.5-106	Expansion/	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H
3.5-106	Fasteners (Carbon and Low Alloy Steel) in Air	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A
3.5-106	Fasteners (High Strength Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A
3.5-107	Fasteners (Precipitation Hardenable) in Air	PWR, SP, SFS	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air	None	None		-	None
3.5-107	Fasteners (Wrought Austenitic Stainless Steel) in Air	SFS	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-107	Fasteners (Wrought Austenitic Stainless Steel) in Soil Below the GWT	FP	Wrought Austenitic Stainless Steel	Soil, below the water table	Loss of Material	Structures Monitoring Program		-	J
3.5-107	Fasteners (Wrought Austenitic Stainless Steel) in Treated Water	SFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None

3.5-107	Fuel Pool Gates	SFS	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-107	Fuel Transfer Shielding Bridge (Refueling Area)	SNSR	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-108	Liners	PB	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-108	Liners	PB	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.5-108	Mechanical Penetrations (thimbles)	FP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Soil, below the water table	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A
3.5-108	Metal Siding in Air	SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A
3.5-108	Plug Liners	PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	C, 7

3.5-109	Polymer in Air	PB, SP, SNSR	Polymers	Air	Cracking	Structures Monitoring Program		-	J
3.5-109	Polymer in Air	PB, SP, SNSR	Polymers	Air	Hardening and Shrinkage	Structures Monitoring Program		-	J
3.5-109	Polymer in Air	PB, SP, SNSR	Polymers	Air	Loss of Strength	Structures Monitoring Program		-	J
3.5-110	Polymer in Soil Below the GWT	FP	Polymers	Soil, below the water table	Cracking	Structures Monitoring Program		-	J
3.5-110	Polymer in Soil Below the GWT	FP	Polymers	Soil, below the water table	Loss of Strength	Structures Monitoring Program		-	J
3.5-110	Porous Concrete in Soil Below the GWT	SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-110	Structural Steel (Carbon and Low Alloy Steel) in Air	PWR, PB, SP, SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A2.2-a	3.5.1.B-20	A

3.5-110	Structural Steel (Wrought Austenitic Stainless Steel) in Air	SP, SFS, SNSR	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-110	Overpressurization Vent Panels	SFS	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None		-	None
3.5-111	Concrete in Air (includes removable floor/wall)	FB, PFP, MB, SP, SFS, SNSR	Concrete	Air	None	Fire Protection Program, Structures Monitoring Program		-	H, 6
3.5-111	Concrete in Soil Above the GWT	FP, SP, SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-111	Concrete in Soil Below the GWT	FP, SP, SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-111	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	A
3.5-111	Fasteners (Carbon and Low Alloy Steel) in Air	SP, SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A

3.5-112	Structural Steel (Carbon and Low Alloy Steel) in Air	SP, SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-113	Concrete in Air (includes removable floor/wall)	FB, FP, MB, PB, RS, SP, SFS	Concrete	Air	None	Fire Protection Program, Structures Monitoring Program		-	H, 6
3.5-113	Concrete in Soil Above the GWT	FP, SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-113	Concrete in Soil Below the GWT	FP, SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-113	Concrete Lean Fill in Soil Below the GWT	SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-113	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1
3.5-113	Doors	FB , FP, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1

3.5-114	Doors	FB, PB, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1
3.5-114	Doors	FB, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1
3.5-114	Doors	MB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A1.2-a	3.5.1.B-20	A
3.5-114	Doors	SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A1.2-a	3.5.1.B-20	A
3.5-115	Doors	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A1.2-a	3.5.1.B-20	A
3.5-115	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A1.2-a	3.5.1.B-20	A
3.5-115	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H

3.5-115	Fasteners (Carbon and Low Alloy Steel) in Air	SP, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A1.2-a	3.5.1.B-20	A
3.5-115	Structural Steel (Carbon and Low Alloy Steel) in Air	SP, SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A1.2-a	3.5.1.B-20	A
3.5-116	Concrete in Air	FB, FP, MB, SP, SFS	Concrete	Air	None	Fire Protection Program, Structures Monitoring Program		-	H, 6
3.5-116	Concrete in Soil Above the GWT	FP, SP, SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-116	Concrete in Soil Below the GWT	FP, SP, SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-116	Concrete Lean Fill in Air	SFS	Concrete	Air	None	Structures Monitoring Program		-	H, 6
3.5-116	Concrete Lean Fill in Soil Above GWT	SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6

3.5-116	Concrete Lean Fill in Soil Below GWT	SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-116	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.4-d	3.3.1.B-20	A
3.5-117	Doors	FB, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.4-d	3.3.1.B-20	A
3.5-117	Doors	SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-117	Doors	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-117	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-117	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H

3.5-118	Fasteners (Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-118	Polymer in Air	FP	Polymers	Air	Cracking	Structures Monitoring Program		-	J
3.5-118	Polymer in Air	FP	Polymers	Air	Hardening and Shrinkage	Structures Monitoring Program		-	J
3.5-118	Polymer in Air	FP	Polymers	Air	Loss of Strength	Structures Monitoring Program		-	J
3.5-118	Structural Steel (Carbon and Low Alloy Steel) in Air	MB, SP, SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-119	Aluminum Alloy in Air	SNSR	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None		-	None
3.5-119	Concrete in Air (includes removable floor/wall)	FB, FP, MB, SNSR, SP	Concrete	Air	None	Fire Protection Program, Structures Monitoring Program		-	H, 6

3.5-119	Concrete in Soil Above the GWT	FP, MB, SNSR, SP, SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-119	Concrete in Soil Below the GWT	FP, SNSR, SP, SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-119	Concrete Lean Fill in Soil Below GWT	SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-120	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1
3.5-120	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1
3.5-120	Doors	SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-120	Doors	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A

3.5-121	Earthen Berm in Air	FP	Earthen structures constructed primarily of soil	Air	Loss of Form	Structures Monitoring Program	III.A6.4-a	3.5.1.B-22	E
3.5-121	Earthen Berm in Air	FP	Earthen structures constructed primarily of soil	Air	Loss of Material	Structures Monitoring Program	III.A6.4-a	3.5.1.B-22	E
3.5-121	Earthen Berm in Air	FP	Earthen structures constructed primarily of soil	Air	Loss of Material Properties	Structures Monitoring Program	III.A6.4-a	3.5.1.B-22	E
3.5-121	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	FP, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H
3.5-121	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	FP, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-121	Fasteners (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-121	Fasteners (Wrought Austenitic Stainless Steel) in Air	FP	Wrought Austenitic Stainless Steel	Air	None	None		-	None

3.5-121	Fasteners (Wrought Austenitic Stainless Steel) in Soil Below the GWT	FP	Wrought Austenitic Stainless Steel	Soil, below the water table	Loss of Material	Structures Monitoring Program		-	J
3.5-122	Gray Cast Iron in Air	SP	Gray Cast Iron	Air	Loss of Material	Structures Monitoring Program		-	J
3.5-122	Gray Cast Iron in Soil Above the GWT	SP	Gray Cast Iron	Soil, above the water table	Loss of Material	Structures Monitoring Program		-	J
3.5-122	Mechanical Penetrations (thimbles)	FP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Soil, below the water table	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-122	Polymer in Air	FP	Polymers	Air	Cracking	Structures Monitoring Program		-	J
3.5-122	Polymer in Air	FP	Polymers	Air	Hardening and Shrinkage	Structures Monitoring Program		-	J
3.5-122	Polymer in Air	FP	Polymers	Air	Loss of Strength	Structures Monitoring Program		-	J

3.5-122	Polymer in Soil Below the GWT	FP	Polymers	Soil, below the water table	Cracking	Structures Monitoring Program		-	J
3.5-122	Polymer in Soil Below the GWT	FP	Polymers	Soil, below the water table	Loss of Strength	Structures Monitoring Program		-	J
3.5-122	Revetment Ditch in Air	FP	Earthen structures constructed primarily of soil	Air	Loss of Form	Structures Monitoring Program	III.A6.4-a	3.5.1.B-22	E
3.5-122	Revetment Ditch in Air	FP	Earthen structures constructed primarily of soil	Air	Loss of Material	Structures Monitoring Program	III.A6.4-a	3.5.1.B-22	E
3.5-122	Revetment Ditch in Air	FP	Earthen structures constructed primarily of soil	Air	Loss of Material Properties	Structures Monitoring Program	III.A6.4-a	3.5.1.B-22	E
3.5-122	Stone-Faced Dike in Air	FP	Stones or large rocks	Air	None	None		-	None
3.5-123	Structural Steel (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A

3.5-123	Treated Wood in Air	SNSR	Wood	Air	Loss of Material	Structures Monitoring Program		-	J
3.5-123	Treated Wood in Air	SNSR	Wood	Air	Loss of Material Properties	Structures Monitoring Program		-	J
3.5-123	Treated Wood in Soil Above the GWT	SNSR	Wood	Soil, above the water table	Loss of Material	Structures Monitoring Program		-	J
3.5-123	Treated Wood in Soil Above the GWT	SNSR	Wood	Soil, above the water table	Loss of Material Properties	Structures Monitoring Program		-	J
3.5-123	Treated Wood in Soil Below the GWT	SNSR	Wood	Soil, below the water table	Loss of Material	Structures Monitoring Program		-	J
3.5-123	Treated Wood in Soil Below the GWT	SNSR	Wood	Soil, below the water table	Loss of Material Properties	Structures Monitoring Program		-	J
3.5-124	Carousel	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program		-	Q

3.5-124	Lifting Beams	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program		-	Q
3.5-124	New Fuel Storage Rack	SFS	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-124	New Fuel Storage Vault Cover	SNSR	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None		-	None
3.5-124	Recirculation Pump Motor Lifting Lugs	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program		-	Q
3.5-125	Refueling Crane and Platform Equipment	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Inspection of Overhead Heavy Load and Light Load Handling Systems Program	VII.B.1-b	3.3.1.B-16	A
3.5-125	Storage Racks and Frames	SFS	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.5-126	Concrete in Air	GDP, SFS, SNSR	Concrete	Air	None	Structures Monitoring Program		-	H, 6

3.5-126	Concrete in Soil Above the GWT	SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-126	Concrete in Soil Below the GWT	SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-126	Concrete Lean Fill in Soil Below the GWT	SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-126	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	C, 2
3.5-126	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	P
3.5-126	Fasteners (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	C, 2
3.5-126	Structural Steel (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	C, 2

3.5-127	Handling Cranes	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Inspection of Overhead Heavy Load and Light Load Handling Systems Program	VII.B.1-b	3.3.1.B-16	A
3.5-127	Hoists	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Inspection of Overhead Heavy Load and Light Load Handling Systems Program	VII.B.1-b	3.3.1.B-16	A
3.5-127	Polar Crane	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Inspection of Overhead Heavy Load and Light Load Handling Systems Program	VII.B.1-b	3.3.1.B-16	A
3.5-128	Concrete in Air	FB, FP, RS, SNSR	Concrete	Air	None	Fire Protection Program, Structures Monitoring Program		-	H, 6
3.5-128	Concrete in Soil Above the GWT	FP, SNSR	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-128	Concrete in Soil Below the GWT	FP, SNSR	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-128	Concrete Lean Fill in Soil Below the GWT	SNSR	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6

3.5-128	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1
3.5-128	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-128	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H
3.5-129	Fasteners (Carbon and Low Alloy Steel) in Air	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-129	Structural Steel (Carbon and Low Alloy Steel) in Air	FP, RS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-130	Block Wall in Air	FB	Masonry Walls	Air	Cracking	Masonry Wall Program	III.A3.3-a	3.5.1.B-24	A
3.5-130	Concrete in Air (includes removable floor/wall)	FB, FP, MB, SP, SFS, SNSR	Concrete	Air	None	Fire Protection Program, Structures Monitoring Program		-	H, 6

3.5-130	Concrete in Raw Water	FP, MB, SP, SFS, SNSR	Concrete	Raw Water	None	Structures Monitoring Program		-	H, 6
3.5-130	Concrete in Soil Above the GWT	FP, SP, SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-130	Concrete in Soil Below the GWT	FP, SP, SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-130	Concrete Lean Fill in Raw Water	SFS	Concrete	Raw Water	None	Structures Monitoring Program		-	H, 6
3.5-130	Concrete Lean Fill in Soil Above the GWT	SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-130	Concrete Lean Fill in Soil Below the GWT	SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-131	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.1-d	3.3.1.B-20	A

3.5-131	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-131	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H
3.5-131	Fasteners (Carbon and Low Alloy Steel) in Air	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-131	Fasteners (Carbon and Low Alloy Steel) in Raw Water	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-131	Fasteners (Wrought Austenitic Stainless Steel) in Raw Water	SFS	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Structures Monitoring Program		-	J
3.5-131	Fasteners (Wrought Austenitic Stainless Steel) in Raw Water	SFS	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Structures Monitoring Program		-	J
3.5-132	Polymer in Raw Water	SFS	Polymers	Raw Water	Cracking	Structures Monitoring Program		-	J

3.5-132	Polymer in Raw Water	SFS	Polymers	Raw Water	Loss of Strength	Structures Monitoring Program		-	J
3.5-132	Structural Steel (Carbon and Low Alloy Steel) in Air	SP, SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-132	Structural Steel (Carbon and Low Alloy Steel) in Raw Water	CWS, FLT, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Raw Water	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-132	Structural Steel (Wrought Austenitic Stainless Steel) in Raw Water	SP, SFS	Wrought Austenitic Stainless Steel	Raw Water	Cracking	Structures Monitoring Program		-	M
3.5-132	Structural Steel (Wrought Austenitic Stainless Steel) in Raw Water	SP, SFS	Wrought Austenitic Stainless Steel	Raw Water	Loss of Material	Structures Monitoring Program		-	F
3.5-132	Structural Steel Foundation Piles (Carbon and Low Alloy Steel) in Undisturbed Soil	SFS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Undisturbed Soil	None	None		-	None
3.5-133	Concrete in Air	FB, FP, HELB, MB, SP, SFS	Concrete	Air	None	Fire Protection Program, Structures Monitoring Program		-	H, 6

3.5-133	Concrete in Soil Above the GWT	FP, SP, SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-133	Concrete in Soil Below the GWT	FP, SP, SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-133	Concrete Lean Fill in Soil Above the GWT	SFS	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-133	Concrete Lean Fill in Soil Below the GWT	SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-133	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1
3.5-134	Doors	FB, HELB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1
3.5-134	Doors	FB, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.3-d	3.3.1.B-20	C, 1

3.5-134	Doors	MB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-134	Doors	MB, PB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-135	Doors	SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-135	Fasteners (Carbon and Low Alloy Steel) in Air	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-135	Fasteners (High Strength Carbon and Low Alloy Steel) in Air	SFS	Carbon or Low Alloy Steel (Yield Strength > 100 Ksi)	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-135	Structural Steel (Carbon and Low Alloy Steel) in Air	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-136	Block Wall in Air	FB	Masonry Walls	Air	Cracking	Masonry Wall Program	III.A3.3-a	3.5.1.B-24	A

3.5-136	Concrete in Air	FB, RS, SP, SFS, SNSR	Concrete	Air	None	Fire Protection Program, Structures Monitoring Program		-	H, 6
3.5-136	Concrete in Soil Above the GWT	SP, SFS, SNSR	Concrete	Soil, above the water table	None	Structures Monitoring Program		-	H, 6
3.5-136	Concrete in Soil Below the GWT	SP, SFS, SNSR	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-136	Concrete Lean Fill in Soil Below the GWT	SFS	Concrete	Soil, below the water table	None	Structures Monitoring Program		-	H, 6
3.5-136	Doors	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.2-d	3.3.1.B-20	A
3.5-137	Doors	FB, FP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.2-d	3.3.1.B-20	A
3.5-137	Doors	FB, RS	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Fire Protection Program	VII.G.2-d	3.3.1.B-20	A

3.5-137	Doors	FP, SP	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air, relative motion between components	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-137	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-137	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H
3.5-138	Fasteners (Carbon and Low Alloy Steel) in Air	SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-138	Fasteners (High Strength Carbon and Low Alloy Steel) in Air	PWR, SFS	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A
3.5-138	Fasteners (Wrought Austenitic Stainless Steel) in Air	PWR	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-138	Structural Steel (Carbon and Low Alloy Steel) in Air	RS, SP, SFS, SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.A3.2-a	3.5.1.B-20	A

3.5-139	Copper Alloy (Zinc < 15%) in Air, Relative Motion (NMP1 only)	SFS SNSR	Copper Alloys (Zinc < 15%)	Air, relative motion between components	Loss of Material	ASME Section XI Inservice Inspection (Subsection IWF) Program		-	H
3.5-139	Copper Alloy (Zinc ≥ 15%) in Air, Relative Motion (NMP2 only)	SFS SNSR	Copper Alloys (Zinc ≥ 15%) and Aluminum Bronze	Air, relative motion between components	Loss of Material	ASME Section XI Inservice Inspection (Subsection IWF) Program		-	H
3.5-139	Epoxy Grout in Air (NMP2 only)	SFS	Epoxy Grout	Air	Cracking	Structures Monitoring Program	III.B4.3-a	3.5.1.B-29	A
3.5-139	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	ASME Section XI Inservice Inspection (Subsection IWF) Program	III.B1.1.1-a III.B1.2.1-a III.B1.3.1-a	3.5.1.A-32 3.5.1.B-32	B
3.5-139	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.B2.1-a III.B3.1-a III.B4.1-a III.B5.1-a	3.5.1.A-29 3.5.1.B-29	A
3.5-140	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air (cont'd)	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	ASME Section XI Inservice Inspection (Subsection IWF) Program		-	H
3.5-140	Expansion/Grouted Anchors (Carbon and Low Alloy Steel) in Air (cont'd)	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H

3.5-140	Expansion/Grouted Anchors (Wrought Austenitic Stainless Steel) in Air (NMP2 only)	SFS	Wrought Austenitic Stainless Steel	Air	Loss of Anchor Capacity	ASME Section XI Inservice Inspection (Subsection IWF) Program		-	H
3.5-140	Expansion/Grouted Anchors (Wrought Austenitic Stainless Steel) in Air (NMP2 only)	SFS	Wrought Austenitic Stainless Steel	Air	Loss of Anchor Capacity	Structures Monitoring Program		-	H
3.5-140	Fasteners (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	ASME Section XI Inservice Inspection (Subsection IWF) Program	III.B1.1.1-a III.B1.2.1-a III.B1.3.1-a	3.5.1.A-32 3.5.1.B-32	B
3.5-140	Fasteners (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.B2.1-a III.B3.1-a III.B4.1-a III.B5.1-a	3.5.1.A-29 3.5.1.B-29	A
3.5-141	Fasteners (High Strength Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	ASME Section XI Inservice Inspection (Subsection IWF) Program	III.B1.1.1-a III.B1.2.1-a III.B1.3.1-a	3.5.1.A-32 3.5.1.B-32	B
3.5-141	Fasteners (High Strength Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength ≥ 100 Ksi)	Air	Loss of Material	Structures Monitoring Program	III.B4.1-a III.B5.1-a	3.5.1.A-29 3.5.1.B-29	A
3.5-141	Fasteners (Precipitation Hardenable) in Air (NMP1 only)	SFS SNSR	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air	None	None		-	None

3.5-141	Grout in Air	SFS SNSR	Grout	Air	Cracking	Structures Monitoring Program	III.B1.1.4-a III.B1.2.3-a III.B1.3.3-a III.B2.2-a III.B3.2-a III.B4.3-a III.B5.2-a	3.5.1.A-29 3.5.1.B-29	A
3.5-142	Polymeric Supports in Air with Vibratory Motion	SFS SNSR	Polymers	Air with Vibratory Motion	Cracking	Structures Monitoring Program		-	H
3.5-142	Polymeric Supports in Air with Vibratory Motion	SFS SNSR	Polymers	Air with Vibratory Motion	Hardening and Shrinkage	Structures Monitoring Program		-	H
3.5-142	Polymeric Supports in Air with Vibratory Motion	SFS SNSR	Polymers	Air with Vibratory Motion	Loss of Material	Structures Monitoring Program		-	H
3.5-142	Polymeric Supports in Air with Vibratory Motion	SFS SNSR	Polymers	Air with Vibratory Motion	Loss of Strength	Structures Monitoring Program		-	H
3.5-142	Structural Steel (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	ASME Section XI Inservice Inspection (Subsection IWF) Program	III.B1.1.1-a III.B1.2.1-a III.B1.3.1-a	3.5.1.A-32 3.5.1.B-32	B
3.5-142	Structural Steel (Carbon and Low Alloy Steel) in Air	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Structures Monitoring Program	III.B2.1-a III.B3.1-a III.B4.1-a III.B5.1-a	3.5.1.A-29 3.5.1.B-29	A

3.5-142	Structural Steel (Carbon and Low Alloy Steel) in Soil Above the GWT (NMP2 only)	SFS SNSR	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Soil, above the water table	Loss of Material	Structures Monitoring Program	III.B2.1-a III.B3.1-a III.B4.1-a	3.5.1.B-29	A
3.5-143	Structural Steel (Precipitation Hardenable) in Air (NMP2 only)	SFS SNSR	Martensitic, Precipitation Hardenable, and Superferritic Stainless Steels	Air	None	None		-	None
3.5-143	Structural Steel (Wrought Austenitic Stainless Steel) in Air	SFS SNSR	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-143	Structural Steel (Wrought Austenitic Stainless Steel) in Air, Relative Motion (NMP2 only)	SFS SNSR	Wrought Austenitic Stainless Steel	Air, relative motion between components	Loss of Material	ASME Section XI Inservice Inspection (Subsection IWF) Program		-	H
3.5-143	Structural Steel (Wrought Austenitic Stainless Steel) in Treated Water	SFS SNSR	Wrought Austenitic Stainless Steel	Treated Water, temperature < 140°F, Low Flow	None	None		-	None
3.5-144	Aluminum Alloy in Air (NMP1 only)	FB	Pure aluminum alloys, and aluminum alloyed with manganese, magnesium, and magnesium plus silicon	Air	None	None		-	None

3.5-144	Fasteners (Wrought Austenitic Stainless Steel) in Air	FB	Wrought Austenitic Stainless Steel	Air	None	None		-	None
3.5-144	Fire Stop in Air	FB	Fire Stop	Air	Cracking/ Delamination	Fire Protection Program		-	H
3.5-144	Fire Stop in Air	FB	Fire Stop	Air	Loss of Material	Fire Protection Program		-	H
3.5-144	Fire Stop in Air	FB	Fire Stop	Air	Separation	Fire Protection Program		-	H
3.5-144	Fire Wrap in Air	FB	Fire Wrap	Air	Cracking/ Delamination	Fire Protection Program		-	H
3.5-144	Fire Wrap in Air	FB	Fire Wrap	Air	Loss of Material	Fire Protection Program		-	H
3.5-145	Structural Steel (Carbon and Low Alloy Steel) in Air (NMP2 only)	FB	Carbon or Low Alloy Steel (Yield Strength < 100 Ksi) and Ductile/Malleable Cast Iron	Air	Loss of Material	Fire Protection Program		-	Q

3.6-9	Cables	EC	Various Organic Polymers	Adverse localized environment caused by heat	Loss of Electrical Continuity and Loss of Insulation Resistance	Non-EQ Electrical Cables and Connections Program	VI.A.1-a	3.6.1-02	A, 1, 2, 6
3.6-9	Cables	EC	Various Organic Polymers	Adverse localized environment caused by heat	Loss of Electrical Continuity and Loss of Insulation Resistance	Non-EQ Electrical Cables Used in Instrumentation Circuits Program	VI.A.1-b	3.6.1-03	A, 1, 2, 6
3.6-9	Cables	EC	Various Organic Polymers	Adverse localized environment caused by radiation	Loss of Electrical Continuity and Loss of Insulation Resistance	Non-EQ Electrical Cables and Connections Program	VI.A.1-a	3.6.1-02	A, 1, 3 6
3.6-10	Cables (cont'd)	EC	Various Organic Polymers	Adverse localized environment caused by radiation	Loss of Electrical Continuity and Loss of Insulation Resistance	Non-EQ Electrical Cables Used in Instrumentation Circuits Program	VI.A.1-b	3.6.1-03	A, 1, 3 6
3.6-10	Cables (cont'd)	EC	Various Organic Polymers	Air	None	None		-	None, 6
3.6-10	Connectors	EC	Various Organic Polymers	Air	None	None		-	None, 6
3.6-10	Inaccessible Medium-voltage Cables	EC	Various Organic Polymers	Adverse localized environment caused by moisture and voltage stress.	Loss of Electrical Continuity and Loss of Insulation Resistance	Non-EQ Inaccessible Medium Voltage Cables Program	VI.A.1-c	3.6.1-04	A, 1, 6

3.6-10	Splices	EC	Various Organic Polymers	Air	None	None		-	None, 6
3.6-10	Fuse Blocks	EC	Various Organic Polymers	Air	None	None		-	H, 4, 6
3.6-10	Fuse Blocks	EC	Copper, Brass, Steel or Alloy (Fuse Holders)	Air	None	Fuse Holder Inspection Program		-	H, 4
3.6-10	Terminal Blocks	EC	Various Organic Polymers	Air	None	None		-	None, 6
3.6-11	Insulators	EI NFS	Cement	Air	None	None		-	None
3.6-11	Insulators	EI NFS	Porcelain	Air	None	None		-	None
3.6-11	Insulators	EI NFS	Metal	Air	None	None		-	None

3.6-11	Non-Segregated Bus	EC	Aluminum	Air	None	Non-Segregated Bus Inspection Program		-	H, 5
3.6-11	Switchyard Bus	EC	Aluminum	Air	None	None		-	None
3.6-12	Containment Electrical Penetrations	EC PB	Various Organic Polymers	Air	None	None		-	None, 6
3.6-13	High Voltage Insulators	EI NFS	Cement	Air	None	None		-	None
3.6-13	High Voltage Insulators	EI NFS	Porcelain	Air	None	None		-	None
3.6-13	High Voltage Insulators	EI NFS	Metal	Air	None	None		-	None
3.6-13	Transmission Conductors	EC	Aluminum Conductor-Steel Reinforced	Air	None	None		-	None