

**TABLE 3.3-1 TABLE 1 AUXILIARY SYSTEMS****Auxiliary Systems**

<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>2. Linings in spent fuel pool cooling and cleanup system; seals and collars in ventilation systems</b>			
<b>System No</b>	<b>8150</b>	<b>HVAC Containment Building System (HVAC)</b>	
Elastomers	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Change in Material Properties from Elevated Temperature	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Change in Material Properties from Irradiation Embrittlement	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Cracking from Elevated Temperature	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Cracking from Irradiation Embrittlement	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>8170</b>	<b>Containment Purge System (CV PUR)</b>	
Elastomers	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Change in Material Properties from Elevated Temperature	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Change in Material Properties from Irradiation Embrittlement	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Cracking from Elevated Temperature	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Cracking from Irradiation Embrittlement	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>8180</b>	<b>Rod Drive Cooling System (RDSC)</b>	
Elastomers	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Change in Material Properties from Elevated Temperature	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Change in Material Properties from Irradiation Embrittlement	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Cracking from Elevated Temperature	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Cracking from Irradiation Embrittlement	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>8210</b>	<b>HVAC Auxiliary Building (HVAC)</b>	
Elastomers	Indoor - Not Air Conditioned, Borated Water Leakage	Change in Material Properties from Elevated Temperature	Systems Monitoring Program (Site Specific)

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<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>2. Linings in spent fuel pool cooling and cleanup system; seals and collars in ventilation systems</b>			
Elastomers	Indoor - Not Air Conditioned, Borated Water Leakage	Cracking from Elevated Temperature	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>8220</b>	<b>HVAC Control Room Area (HVAC)</b>	
Elastomers	Indoor - Air Conditioned	Change in Material Properties from Elevated Temperature	Systems Monitoring Program (Site Specific)
	Indoor - Air Conditioned	Cracking from Elevated Temperature	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>8265</b>	<b>HVAC Fuel Handling Building (HVAC)</b>	
Elastomers	Indoor - Not Air Conditioned, Borated Water Leakage	Change in Material Properties from Elevated Temperature	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned, Borated Water Leakage	Cracking from Elevated Temperature	Systems Monitoring Program (Site Specific)
<b>3. Components in load handling, chemical and volume control system (PWR), and reactor water cleanup and shutdown cooling systems (older BWR)</b>			
<b>System No</b>	<b>2060</b>	<b>Chemical And Volume Control System</b>	
Carbon Steel	Treated Water (including steam)	Cracking from Thermal Fatigue	Fatigue is a TLAA to be evaluated
Stainless Steel	Treated Water (including steam)	Cracking from Thermal Fatigue	Fatigue is a TLAA to be evaluated
<b>System No</b>	<b>2115</b>	<b>Primary Sampling System (PS)</b>	
Stainless Steel	Treated Water (including steam)	Cracking from Thermal Fatigue	Fatigue is a TLAA to be evaluated
<b>5. Components in ventilation systems, diesel fuel oil system, and emergency diesel generator systems; external surfaces of carbon steel components</b>			
<b>System No</b>	<b>4060</b>	<b>Service Water System (SW)</b>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
Copper Alloys	Indoor - Not Air Conditioned	Loss of Material from Crevice Corrosion	Systems Monitoring Program (Site Specific)

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## Auxiliary Systems

<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>5. Components in ventilation systems, diesel fuel oil system, and emergency diesel generator systems; external surfaces of carbon steel components</b>			
Copper Alloys	Indoor - Not Air Conditioned	Loss of Material from Pitting Corrosion	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>4080</b>	<b>Component/Closed Cooling Water System</b>	
Copper Alloys	Indoor - Not Air Conditioned	Loss of Material from Crevice Corrosion	Preventive Maintenance Program (Site Specific)
	Indoor - Not Air Conditioned	Loss of Material from Pitting Corrosion	Preventive Maintenance Program (Site Specific)
<b>System No</b>	<b>5095</b>	<b>Diesel Generator System (DIESEL)</b>	
Carbon Steel	Air and Gas	Loss of Material from Crevice Corrosion	One-Time Inspection Program
	Air and Gas	Loss of Material from General Corrosion	One-Time Inspection Program
	Air and Gas	Loss of Material from Pitting Corrosion	One-Time Inspection Program
	Indoor - Not Air Conditioned	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>5098</b>	<b>Dedicated Shutdown Diesel Generator (DSD)</b>	
Carbon Steel	Air and Gas	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned	Loss of Material from MIC	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Heat Transfer Effectiveness from Fouling of Heat Transfer Surfaces	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
Copper Alloys	Indoor - Not Air Conditioned	Loss of Material from Crevice Corrosion	Systems Monitoring Program (Site Specific)
	Indoor - Not Air Conditioned	Loss of Material from Pitting Corrosion	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Material from Crevice Corrosion	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Material from Pitting Corrosion	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>5100</b>	<b>Fuel Oil System (FO)</b>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)

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## Auxiliary Systems

<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>5. Components in ventilation systems, diesel fuel oil system, and emergency diesel generator systems; external surfaces of carbon steel components</b>			
Carbon Steel	Indoor - Not Air Conditioned, Outdoor	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Material from Crevice Corrosion	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Material from MIC	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Material from Pitting Corrosion	Systems Monitoring Program (Site Specific)
Copper Alloys	Outdoor	Loss of Material from Crevice Corrosion	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Material from Pitting Corrosion	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>6082</b>	<b>EOF/TSC Security Emergency Diesel Gen. (EOF DG)</b>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Heat Transfer Effectiveness from Fouling of Heat Transfer Surfaces	Systems Monitoring Program (Site Specific)
	Outdoor	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>6175</b>	<b>Site Fire Protection System (SFPS)</b>	
Carbon Steel	Outdoor	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
Galvanized Steel	Indoor - Not Air Conditioned	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>6270</b>	<b>Primary And Demineralized Water Makeup System (DW)</b>	
Carbon Steel	Outdoor	Loss of Material from General Corrosion	Systems Monitoring Program (Site Specific)
<b>System No</b>	<b>8150</b>	<b>HVAC Containment Building System (HVAC)</b>	
Carbon Steel	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Material from Crevice Corrosion	Preventive Maintenance Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Material from General Corrosion	Preventive Maintenance Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Material from Pitting Corrosion	Preventive Maintenance Program (Site Specific)
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Material from Crevice Corrosion	Preventive Maintenance Program (Site Specific)
Copper Alloys	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Material from Crevice Corrosion	Preventive Maintenance Program (Site Specific)

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<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>5. Components in ventilation systems, diesel fuel oil system, and emergency diesel generator systems; external surfaces of carbon steel components</b>			
Copper Alloys	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Material from Pitting Corrosion	Preventive Maintenance Program (Site Specific)
<i>System No</i> 8210	HVAC Auxiliary Building (HVAC)		
Carbon Steel	Indoor - Not Air Conditioned, Borated Water Leakage	Loss of Material from General Corrosion	Preventive Maintenance Program (Site Specific)
	Indoor - Not Air Conditioned, Borated Water Leakage	Loss of Material from MIC	Preventive Maintenance Program (Site Specific)
Copper Alloys	Indoor - Not Air Conditioned, Borated Water Leakage	Loss of Material from Crevice Corrosion	Preventive Maintenance Program (Site Specific)
	Indoor - Not Air Conditioned, Borated Water Leakage	Loss of Material from Pitting Corrosion	Preventive Maintenance Program (Site Specific)
<b>7. Diesel fuel oil tanks in diesel fuel oil system and emergency diesel generator system</b>			
<i>System No</i> 5100	Fuel Oil System (FO)		
Carbon Steel	Fuel Oil	Loss of Material from Crevice Corrosion	Fuel Oil Chemistry Program
	Fuel Oil	Loss of Material from General Corrosion	Fuel Oil Chemistry Program
	Fuel Oil	Loss of Material from MIC	Fuel Oil Chemistry Program
	Fuel Oil	Loss of Material from Pitting Corrosion	Fuel Oil Chemistry Program
Copper Alloys	Fuel Oil	Loss of Material from MIC	Fuel Oil Chemistry Program
Stainless Steel	Fuel Oil	Loss of Material from MIC	Fuel Oil Chemistry Program
<b>8. Heat exchangers in chemical and volume control system</b>			
<i>System No</i> 2060	Chemical And Volume Control System		
Stainless Steel	Treated Water (including steam)	Cracking from SCC	Water Chemistry Program
	Treated Water (including steam)	Cracking from SCC	Closed-Cycle Cooling Water System Program
<b>13. Closure bolting and external surfaces of carbon steel and low-alloy steel components</b>			

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<b>Material</b>	<b>Environment</b>	<b>Aging Effect/ Mechanism</b>	<b>Program</b>
<b>13. Closure bolting and external surfaces of carbon steel and low-alloy steel components</b>			
<b>System No</b>	<b>2060</b>	<b>Chemical And Volume Control System</b>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
	Indoor - Not Air Conditioned	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
<b>System No</b>	<b>2118</b>	<b>Containment Vapor And Pressure Sampling System</b>	
Carbon Steel	Indoor - Not Air Conditioned, Borated Water Leakage	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
	Indoor - Not Air Conditioned, Borated Water Leakage	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
<b>System No</b>	<b>4060</b>	<b>Service Water System (SW)</b>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
	Indoor - Not Air Conditioned, Outdoor, Containment Air, Borated Water Leakage	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
<b>System No</b>	<b>4080</b>	<b>Component/Closed Cooling Water System</b>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
	Indoor - Not Air Conditioned, Borated Water Leakage	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
<b>System No</b>	<b>6135</b>	<b>Instrument Air System (IA)</b>	
Carbon Steel	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
	Indoor - Not Air Conditioned, Outdoor, Containment Air, Borated Water Leakage	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
<b>System No</b>	<b>6150</b>	<b>Nitrogen Supply/Blanketing System (N2 SUP)</b>	
Carbon Steel	Containment Air, Borated Water Leakage	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program

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<b>13. Closure bolting and external surfaces of carbon steel and low-alloy steel components</b>			
Carbon Steel	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
<i>System No</i>	<i>6175</i>	<i>Site Fire Protection System (SFPS)</i>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
	Indoor - Not Air Conditioned, Outdoor, Containment Air, Borated Water Leakage	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
<i>System No</i>	<i>6195</i>	<i>Fire Protection CO2 System (CO2)</i>	
Carbon Steel	Indoor - Not Air Conditioned, Borated Water Leakage	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
<i>System No</i>	<i>7110</i>	<i>Spent Fuel Pool Cooling System (SFPCS)</i>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
<i>System No</i>	<i>8010S01</i>	<i>Bldg 200: Reactor Containment Building</i>	
Carbon Steel	Borated Water Leaks	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
	Borated Water Leaks	Loss of Material from General Corrosion	Boric Acid Corrosion Program
<i>System No</i>	<i>8150</i>	<i>HVAC Containment Building System (HVAC)</i>	
Carbon Steel	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
<i>System No</i>	<i>8170</i>	<i>Containment Purge System (CV PUR)</i>	
Carbon Steel	Indoor - Not Air Conditioned, Borated Water Leakage	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program

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<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>13. Closure bolting and external surfaces of carbon steel and low-alloy steel components</b>			
<b>System No</b>	<b>8180</b>	<b>Rod Drive Cooling System (RDSC)</b>	
Carbon Steel	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Material from Aggressive Chemical Attack	Boric Acid Corrosion Program
	Indoor - Not Air Conditioned, Containment Air, Borated Water Leakage	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
<b>System No</b>	<b>8210</b>	<b>HVAC Auxiliary Building (HVAC)</b>	
Carbon Steel	Indoor - Not Air Conditioned, Borated Water Leakage	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
<b>System No</b>	<b>8265</b>	<b>HVAC Fuel Handling Building (HVAC)</b>	
Carbon Steel	Indoor - Not Air Conditioned, Borated Water Leakage	Loss of Mechanical Closure Integrity from Loss of Material due to Aggressive Chemical Attack	Boric Acid Corrosion Program
<b>14. Components in or serviced by closed-cycle cooling water system</b>			
<b>System No</b>	<b>2060</b>	<b>Chemical And Volume Control System</b>	
Carbon Steel	Treated Water (including steam)	Loss of Material from Crevice Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from General Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from Pitting Corrosion	Closed-Cycle Cooling Water System Program
Stainless Steel	Treated Water (including steam)	Loss of Material from Crevice Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from Pitting Corrosion	Closed-Cycle Cooling Water System Program
<b>System No</b>	<b>4080</b>	<b>Component/Closed Cooling Water System</b>	
Carbon Steel	Treated Water (including steam)	Loss of Material from Crevice Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from General Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from Pitting Corrosion	Closed-Cycle Cooling Water System Program
Stainless Steel	Treated Water (including steam)	Loss of Material from Crevice Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from Pitting Corrosion	Closed-Cycle Cooling Water System Program



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<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>14. Components in or serviced by closed-cycle cooling water system</b>			
<b>System No</b>	<b>5095</b>	<b>Diesel Generator System (DIESEL)</b>	
Carbon Steel	Air and Gas	Loss of Material from General Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from Crevice Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from General Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from Pitting Corrosion	Closed-Cycle Cooling Water System Program
<b>System No</b>	<b>5098</b>	<b>Dedicated Shutdown Diesel Generator (DSD)</b>	
Carbon Steel	Treated Water (including steam)	Loss of Material from Crevice Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from General Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from Pitting Corrosion	Closed-Cycle Cooling Water System Program
<b>System No</b>	<b>6082</b>	<b>EOF/TSC Security Emergency Diesel Gen. (EOF DG)</b>	
Carbon Steel	Treated Water (including steam)	Loss of Material from Crevice Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from General Corrosion	Closed-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from Pitting Corrosion	Closed-Cycle Cooling Water System Program
<b>15. Cranes including bridge and trolleys and rail system in load handling system</b>			
<b>System No</b>	<b>8010S01</b>	<b>Bldg 200: Reactor Containment Building</b>	
Carbon Steel	Containment Air	Loss of Material from General Corrosion	Inspection of Overhead Heavy Load and Light Load H
<b>System No</b>	<b>8300S36</b>	<b>Bldg 350: Turbine Building</b>	
Carbon Steel	Outdoor	Loss of Material from General Corrosion	Inspection of Overhead Heavy Load and Light Load H
<b>System No</b>	<b>8300S46</b>	<b>Bldgs 215, 220 and 225: Fuel Handling Building</b>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Material from General Corrosion	Inspection of Overhead Heavy Load and Light Load H
	Outdoor	Loss of Material from General Corrosion	Inspection of Overhead Heavy Load and Light Load H

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<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>16. Components in or serviced by open-cycle cooling water systems</b>			
<i>System No</i>	<i>4060</i>	<i>Service Water System (SW)</i>	
Aluminum	Raw Water	Flow Blockage from Fouling	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Crevice Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Galvanic Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from MIC	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Pitting Corrosion	Open-Cycle Cooling Water System Program
Carbon Steel	Raw Water	Flow Blockage from Fouling	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Crevice Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Galvanic Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from General Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from MIC	Open-Cycle Cooling Water System Program
Copper Alloys	Raw Water	Loss of Material from Pitting Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Flow Blockage from Fouling	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Crevice Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Galvanic Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from MIC	Open-Cycle Cooling Water System Program
Stainless Steel	Raw Water	Loss of Material from Pitting Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Flow Blockage from Fouling	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Crevice Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from MIC	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Pitting Corrosion	Open-Cycle Cooling Water System Program
<i>System No</i>	<i>4080</i>	<i>Component/Closed Cooling Water System</i>	
Carbon Steel	Raw Water	Flow Blockage from Fouling	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Crevice Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Galvanic Corrosion	Open-Cycle Cooling Water System Program

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<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>16. Components in or serviced by open-cycle cooling water systems</b>			
Carbon Steel	Raw Water	Loss of Material from General Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from MIC	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Pitting Corrosion	Open-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from Crevice Corrosion	Open-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from General Corrosion	Open-Cycle Cooling Water System Program
	Treated Water (including steam)	Loss of Material from Pitting Corrosion	Open-Cycle Cooling Water System Program
Copper Alloys	Raw Water	Loss of Heat Transfer Effectiveness from Fouling of Heat Transfer Surfaces	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from MIC	Open-Cycle Cooling Water System Program
<i>System No</i>	<i>5095</i>	<b>Diesel Generator System (DIESEL)</b>	
Carbon Steel	Raw Water	Loss of Material from Crevice Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Galvanic Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from General Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from MIC	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Pitting Corrosion	Open-Cycle Cooling Water System Program
Copper Alloys	Raw Water	Flow Blockage from Fouling	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Heat Transfer Effectiveness from Fouling of Heat Transfer Surfaces	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Crevice Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Galvanic Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from MIC	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Pitting Corrosion	Open-Cycle Cooling Water System Program
<i>System No</i>	<i>8150</i>	<b>HVAC Containment Building System (HVAC)</b>	
Stainless Steel	Raw Water	Flow Blockage from Fouling	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Heat Transfer Effectiveness from Fouling of Heat Transfer Surfaces	Open-Cycle Cooling Water System Program

**TABLE 3.3-1 TABLE 1 AUXILIARY SYSTEMS****Auxiliary Systems**

<i><b>Material</b></i>	<i><b>Environment</b></i>	<i><b>Aging Effect/ Mechanism</b></i>	<i><b>Program</b></i>
<b>16. Components in or serviced by open-cycle cooling water systems</b>			
Stainless Steel	Raw Water	Loss of Material from Crevice Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from MIC	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Pitting Corrosion	Open-Cycle Cooling Water System Program
<i><b>System No</b></i>	<i><b>8210</b></i>	<i><b>HVAC Auxiliary Building (HVAC)</b></i>	
Copper Alloys	Raw Water	Flow Blockage from Fouling	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Heat Transfer Effectiveness from Fouling of Heat Transfer Surfaces	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from MIC	Open-Cycle Cooling Water System Program
<i><b>System No</b></i>	<i><b>8220</b></i>	<i><b>HVAC Control Room Area (HVAC)</b></i>	
Stainless Steel	Raw Water	Flow Blockage from Fouling	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Heat Transfer Effectiveness from Fouling of Heat Transfer Surfaces	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Crevice Corrosion	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from MIC	Open-Cycle Cooling Water System Program
	Raw Water	Loss of Material from Pitting Corrosion	Open-Cycle Cooling Water System Program
<b>17. Buried piping and fittings</b>			
<i><b>System No</b></i>	<i><b>4060</b></i>	<i><b>Service Water System (SW)</b></i>	
Carbon Steel	Buried	Loss of Material from Crevice Corrosion	Buried Piping and Tanks Inspection Program
	Buried	Loss of Material from General Corrosion	Buried Piping and Tanks Inspection Program
	Buried	Loss of Material from MIC	Buried Piping and Tanks Inspection Program
	Buried	Loss of Material from Pitting Corrosion	Buried Piping and Tanks Inspection Program
<i><b>System No</b></i>	<i><b>5098</b></i>	<i><b>Dedicated Shutdown Diesel Generator (DSD)</b></i>	
Carbon Steel	Buried	Loss of Material from Crevice Corrosion	Buried Piping and Tanks Inspection Program
	Buried	Loss of Material from General Corrosion	Buried Piping and Tanks Inspection Program

# TABLE 3.3-1 TABLE 1 AUXILIARY SYSTEMS

## Auxiliary Systems

<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>17. Buried piping and fittings</b>			
Carbon Steel	Buried	Loss of Material from MIC	Buried Piping and Tanks Inspection Program
	Buried	Loss of Material from Pitting Corrosion	Buried Piping and Tanks Inspection Program
<i>System No</i>	<i>5100</i>	<i>Fuel Oil System (FO)</i>	
Carbon Steel	Buried	Loss of Material from Crevice Corrosion	Buried Piping and Tanks Surveillance Program
	Buried	Loss of Material from General Corrosion	Buried Piping and Tanks Surveillance Program
	Buried	Loss of Material from MIC	Buried Piping and Tanks Surveillance Program
	Buried	Loss of Material from Pitting Corrosion	Buried Piping and Tanks Surveillance Program
<i>System No</i>	<i>6175</i>	<i>Site Fire Protection System (SFPS)</i>	
Carbon Steel	Buried	Loss of Material from Crevice Corrosion	Buried Piping and Tanks Inspection Program
	Buried	Loss of Material from General Corrosion	Buried Piping and Tanks Inspection Program
	Buried	Loss of Material from MIC	Buried Piping and Tanks Inspection Program
	Buried	Loss of Material from Pitting Corrosion	Buried Piping and Tanks Inspection Program
<b>18. Components in compressed air system</b>			
<i>System No</i>	<i>5095</i>	<i>Diesel Generator System (DIESEL)</i>	
Carbon Steel	Air and Gas	Loss of Material from General Corrosion	Preventive Maintenance Program (Site Specific)
Copper Alloys	Air and Gas	Cracking from SCC	Preventive Maintenance Program (Site Specific)
	Air and Gas	Loss of Material from Crevice Corrosion	Preventive Maintenance Program (Site Specific)
	Air and Gas	Loss of Material from Pitting Corrosion	Preventive Maintenance Program (Site Specific)
<i>System No</i>	<i>5098</i>	<i>Dedicated Shutdown Diesel Generator (DSD)</i>	
Carbon Steel	Air and Gas	Loss of Material from Galvanic Corrosion	Preventive Maintenance Program (Site Specific)
	Air and Gas	Loss of Material from General Corrosion	Preventive Maintenance Program (Site Specific)
	Air and Gas	Loss of Material from MIC	Preventive Maintenance Program (Site Specific)
Copper Alloys	Air and Gas	Loss of Material from Crevice Corrosion	Preventive Maintenance Program (Site Specific)

## TABLE 3.3-1 TABLE 1 AUXILIARY SYSTEMS

### Auxiliary Systems

<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>18. Components in compressed air system</b>			
Copper Alloys	Air and Gas	Loss of Material from Pitting Corrosion	Preventive Maintenance Program (Site Specific)
Stainless Steel	Air and Gas	Cracking from SCC	Preventive Maintenance Program (Site Specific)
	Air and Gas	Loss of Material from Crevice Corrosion	Preventive Maintenance Program (Site Specific)
	Air and Gas	Loss of Material from MIC	Preventive Maintenance Program (Site Specific)
	Air and Gas	Loss of Material from Pitting Corrosion	Preventive Maintenance Program (Site Specific)
<b>19. Components (doors and barrier penetration seals) and concrete structures in fire protection</b>			
<i>System No</i>	<i>6175</i>	<i>Site Fire Protection System (SFPS)</i>	
Galvanized Steel	Indoor - Not Air Conditioned	Loss of Material from General Corrosion	Fire Protection Program
<i>System No</i>	<i>8300S46</i>	<i>Bldgs 215, 220 and 225: Fuel Handling Building</i>	
Fire Barriers	Indoor - Not Air Conditioned	Cracking from Differential Movement	Fire Protection Program
	Indoor - Not Air Conditioned	Cracking from Vibration	Fire Protection Program
	Indoor - Not Air Conditioned	Delamination and Separation from Differential Movement	Fire Protection Program
	Indoor - Not Air Conditioned	Delamination and Separation from Vibration	Fire Protection Program
<i>System No</i>	<i>8320S01</i>	<i>Bldg 205: Reactor Auxiliary Building</i>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Material from General Corrosion	Fire Protection Program
Fire Barriers	Indoor - Not Air Conditioned	Cracking from Differential Movement	Fire Protection Program
	Indoor - Not Air Conditioned	Cracking from Vibration	Fire Protection Program
	Indoor - Not Air Conditioned	Delamination and Separation from Differential Movement	Fire Protection Program
	Indoor - Not Air Conditioned	Delamination and Separation from Vibration	Fire Protection Program
	Indoor - Not Air Conditioned	Loss of Material from Abrasion	Fire Protection Program
	Outdoor	Cracking from Differential Movement	Fire Protection Program
	Outdoor	Cracking from Vibration	Fire Protection Program
	Outdoor	Delamination and Separation from Differential Movement	Fire Protection Program

## TABLE 3.3-1 TABLE 1 AUXILIARY SYSTEMS

### Auxiliary Systems

<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>19. Components (doors and barrier penetration seals) and concrete structures in fire protection</b>			
Fire Barriers	Outdoor	Delamination and Separation from Vibration	Fire Protection Program
	Outdoor	Loss of Material from Abrasion	Fire Protection Program
<b>20. Components in water-based fire protection</b>			
<i>System No</i>	<i>6175</i>	<i>Site Fire Protection System (SFPS)</i>	
Carbon Steel	Raw Water	Flow Blockage from Fouling	Fire Water System Program
	Raw Water	Loss of Material from Crevice Corrosion	Fire Water System Program
	Raw Water	Loss of Material from Galvanic Corrosion	Fire Water System Program
	Raw Water	Loss of Material from General Corrosion	Fire Water System Program
	Raw Water	Loss of Material from MIC	Fire Water System Program
	Raw Water	Loss of Material from Pitting Corrosion	Fire Water System Program
Copper Alloys	Raw Water	Flow Blockage from Fouling	Fire Water System Program
	Raw Water	Loss of Material from Crevice Corrosion	Fire Water System Program
	Raw Water	Loss of Material from Galvanic Corrosion	Fire Water System Program
	Raw Water	Loss of Material from MIC	Fire Water System Program
	Raw Water	Loss of Material from Pitting Corrosion	Fire Water System Program
Stainless Steel	Raw Water	Flow Blockage from Fouling	Fire Water System Program
	Raw Water	Loss of Material from Crevice Corrosion	Fire Water System Program
	Raw Water	Loss of Material from MIC	Fire Water System Program
	Raw Water	Loss of Material from Pitting Corrosion	Fire Water System Program
<i>System No</i>	<i>8010S01</i>	<i>Bldg 200: Reactor Containment Building</i>	
Carbon Steel	Containment Air	Loss of Material from General Corrosion	Fire Water System Program
<i>System No</i>	<i>8320S01</i>	<i>Bldg 205: Reactor Auxiliary Building</i>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Material from General Corrosion	Fire Water System Program

## TABLE 3.3-1 TABLE 1 AUXILIARY SYSTEMS

### Auxiliary Systems

<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>22. Tanks in diesel fuel oil system</b>			
<i>System No</i>	<i>5100</i>	<i>Fuel Oil System (FO)</i>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Material from General Corrosion	Above Ground Carbon Steel Tanks Program
	Indoor - Not Air Conditioned, Outdoor	Loss of Material from General Corrosion	Above Ground Carbon Steel Tanks Program
	Outdoor	Loss of Material from General Corrosion	Above Ground Carbon Steel Tanks Program
<b>23. Closure bolting</b>			
<i>System No</i>	<i>2060</i>	<i>Chemical And Volume Control System</i>	
Carbon Steel	Indoor - Not Air Conditioned	Loss of Mechanical Closure Integrity from SCC	Bolting Integrity Program
<b>24. Components (aluminum bronze, brass, cast iron, cast steel) in open-cycle and closed-cycle cooling water systems, and ultimate heat sink</b>			
<i>System No</i>	<i>4060</i>	<i>Service Water System (SW)</i>	
Carbon Steel	Raw Water	Loss of Material from Selective Leaching	Selective Leaching of Materials Program
Copper Alloys	Raw Water	Loss of Material from Selective Leaching	Selective Leaching of Materials Program
<i>System No</i>	<i>4080</i>	<i>Component/Closed Cooling Water System</i>	
Copper Alloys	Treated Water (including steam)	Loss of Material from Selective Leaching	Closed-Cycle Cooling Water System Program
<i>System No</i>	<i>5095</i>	<i>Diesel Generator System (DIESEL)</i>	
Carbon Steel	Raw Water	Loss of Material from Selective Leaching	Selective Leaching of Materials Program
	Treated Water (including steam)	Loss of Material from Selective Leaching	Closed-Cycle Cooling Water System Program
Copper Alloys	Raw Water	Loss of Material from Selective Leaching	Selective Leaching of Materials Program
	Treated Water (including steam)	Loss of Material from Selective Leaching	Closed-Cycle Cooling Water System Program
<i>System No</i>	<i>5098</i>	<i>Dedicated Shutdown Diesel Generator (DSD)</i>	
Copper Alloys	Treated Water (including steam)	Loss of Material from Selective Leaching	Closed-Cycle Cooling Water System Program



## TABLE 3.3-1 TABLE 1 AUXILIARY SYSTEMS

### Auxiliary Systems

<i>Material</i>	<i>Environment</i>	<i>Aging Effect/ Mechanism</i>	<i>Program</i>
<b>24. Components (aluminum bronze, brass, cast iron, cast steel) in open-cycle and closed-cycle cooling water systems, and ultimate heat sink</b>			
<b><i>System No</i></b>	<b>6082</b>	<b>EOF/TSC Security Emergency Diesel Gen. (EOF DG)</b>	
Copper Alloys	Treated Water (including steam)	Loss of Material from Selective Leaching	Closed-Cycle Cooling Water System Program
<b><i>System No</i></b>	<b>6175</b>	<b>Site Fire Protection System (SFPS)</b>	
Carbon Steel	Buried	Loss of Material from Selective Leaching	Selective Leaching of Materials Program
	Raw Water	Loss of Material from Selective Leaching	Selective Leaching of Materials Program
Copper Alloys	Raw Water	Loss of Material from Selective Leaching	Selective Leaching of Materials Program