

**3.9S Inservice Testing Program (OM-2004)**

The following site-specific supplement addresses COL License Information Item 3.29.

The Inservice Testing Plan, shown in Table 3.9S-1, has been updated to meet the requirements of ASME OM-2004, and incorporates the testing requirements for MOVs, POVs, and check valves, as well as containment isolation and pressure isolation valves.

Table 3.9S-1 Inservice Testing Program Plan (OM-2004)

<u>MPL</u>	<u>System</u>	<u>Pumps</u>	<u>Valves</u>
<u>B21</u>	<u>Nuclear Boiler</u>		<u>YES</u>
<u>B31</u>	<u>Reactor Recirculation</u>		<u>YES</u>
<u>C12</u>	<u>Control Rod Drive</u>		<u>YES</u>
<u>C41</u>	<u>Standby Liquid Control</u>	<u>YES</u>	<u>YES</u>
<u>C51</u>	<u>Neutron Monitoring (ATIP)</u>		<u>YES</u>
<u>D23</u>	<u>Containment Atmospheric Monitoring</u>		<u>YES</u>
<u>E11</u>	<u>Residual Heat Removal</u>	<u>YES</u>	<u>YES</u>
<u>E22</u>	<u>High Pressure Core Flooder</u>	<u>YES</u>	<u>YES</u>
<u>E31</u>	<u>Leak Detection &amp; Isolation</u>		<u>YES</u>
<u>E51</u>	<u>Reactor Core Isolation Cooling</u>	<u>YES</u>	<u>YES</u>
<u>G31</u>	<u>Reactor Water Cleanup</u>		<u>YES</u>
<u>G41</u>	<u>Fuel Pool Cooling &amp; Cleanup</u>		<u>YES</u>
<u>G51</u>	<u>Suppression Pool Cleanup</u>		<u>YES</u>
<u>K17</u>	<u>Radwaste</u>		<u>YES</u>
<u>P11</u>	<u>Makeup Water (Purified)</u>		<u>YES</u>
<u>P21</u>	<u>Reactor Building Cooling Water</u>	<u>YES</u>	<u>YES</u>
<u>P24</u>	<u>HVAC Normal Cooling Water</u>		<u>YES</u>
<u>P25</u>	<u>HVAC Emergency Cooling Water</u>	<u>YES</u>	<u>YES</u>
<u>P41</u>	<u>Reactor Service Water</u>	<u>YES</u>	<u>YES</u>
<u>P51</u>	<u>Service Air</u>		<u>YES</u>
<u>P52</u>	<u>Instrument Air</u>		<u>YES</u>
<u>P54</u>	<u>High Pressure Nitrogen Gas Supply</u>		<u>YES</u>
<u>P81</u>	<u>Breathing Air System</u>		<u>YES</u>
<u>T22</u>	<u>Standby Gas Treatment</u>		<u>YES</u>
<u>T31</u>	<u>Atmospheric Control</u>		<u>YES</u>
<u>U41</u>	<u>Heating, Ventilating and Air Conditioning</u>		<u>YES</u>
<u>Y52</u>	<u>Oil Storage and Transfer</u>	<u>YES</u>	<u>YES</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (i)</u>	<u>Safety Class (a)</u>	<u>Code Category (j)</u>	<u>Test Para (b)</u>	<u>Test Freq (f)</u>	<u>Biennial Comprehensive Tests</u>	<u>Tier 2 Fig. (g)</u>
<b><u>System Pumps</u></b>								
<u>C41-C001</u>	<u>2</u>	<u>Standby Liquid Control System Pump</u>	<u>2</u>	<u>B</u>	<u>Q</u>	<u>3 mo</u>	<u>P, Q, Vd or Vv</u>	<u>9.3-1</u>
<u>E11-C001</u>	<u>3</u>	<u>Residual Heat Removal System Pump</u>	<u>2</u>	<u>A</u>	<u>ΔP, Q, Vv</u>	<u>3 mo</u>	<u>ΔP, Q, Vv</u>	<u>5.4-10 (Sh. 3, 4, 6)</u>
<u>E11-C002</u>	<u>3</u>	<u>Residual Heat Removal System Fill pump (i1)</u>	<u>2</u>	<u>A</u>	<u>ΔP, Vv</u>	<u>E10</u>	<u>ΔP, Vv</u>	<u>5.4-10 (Sh. 3, 4, 6)</u>
<u>E22-C001</u>	<u>2</u>	<u>High Pressure Core Flooder pump</u>	<u>2</u>	<u>B</u>	<u>ΔP or Q</u>	<u>3 mo</u>	<u>ΔP, Q, Vd or Vv</u>	<u>6.3-7(Sh. 2)</u>
<u>E51-C001</u>	<u>1</u>	<u>Reactor Core Isolation Cooling pump</u>	<u>2</u>	<u>B</u>	<u>ΔP or Q, N</u>	<u>3 mo</u>	<u>N, ΔP, Q, Vd or Vv</u>	<u>5.4-8(Sh. 1)</u>
<u>P21-C001</u>	<u>6</u>	<u>Reactor Building Cooling Water pump</u>	<u>3</u>	<u>A</u>	<u>ΔP, Q, Vv</u>	<u>E10</u>	<u>ΔP, Q, Vv</u>	<u>9.2-1 (Sh.1,4,7)</u>
<u>P25-C001</u>	<u>6</u>	<u>HVAC Emergency Cooling Water System pump</u>	<u>3</u>	<u>A</u>	<u>ΔP, Q, Vv</u>	<u>E10</u>	<u>ΔP, Q, Vv</u>	<u>9.2-3 (Sh. 1, 2, 3)</u>
<u>P41-C001</u>	<u>6</u>	<u>Reactor Service Water System pump</u>	<u>3</u>	<u>A</u>	<u>ΔP, Q, Vv</u>	<u>E10</u>	<u>ΔP, Q, Vv</u>	<u>9.2-7 (Sh. 1, 2, 3)</u>
<u>Y52-C001</u>	<u>6</u>	<u>Standby D/G Fuel Oil Transfer Pump</u>	<u>3</u>	<u>B</u>	<u>ΔP or Q</u>	<u>3 mo</u>	<u>ΔP, Q, Vd or Vv</u>	<u>9.5-6</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<b>B21 Nuclear Boiler System Valves</b>									
F001	2	Feedwater line motor-operated valve (MOV)	MOV	2	B	P	P	RO	5.1-3 sh. 4
F002	2	Upstream (First) FW line check valve (k3) (h3.1)	CV	2	A, C	A	L, S	RO, RO	5.1-3 sh. 4
F003	2	FW line outboard check valve-air-operated (AO) (k1) (k2) (h1.1)	AOV/CV	1	A, C	I, A	L, P, S	RO, RO, RO	5.1-3 sh. 4
F004	2	FW line inboard check valve (k1) (h1.1)	CV	1	A, C	I, A	L, S	RO, RO	5.1-3 sh. 4
F005	2	FW line inboard maintenance valve	MN	1	B	P		E1	5.1-3 sh. 4
F006	2	RWCU (or CUW) System injection line check valve (k3) (h1.2)	CV	2	A, C	A	L, S	RO, RO	5.1-3 sh. 4
F007	2	RWCU (or CUW) System injection line MOV	MOV	2	B	P		E1	5.1-3 sh. 4
F008	4	Inboard main Steam isolation valve. (MSIV) (k1) (k2) (h1.3)	AOV	1	A	I, A	L, P, S	RO, RO, 3mo	5.1-3 sh. 3
F009	4	Outboard Main Steam isolation valve (MSIV) (k1) (k2) (h1.3)	AOV	1	A	I, A	L, P, S	RO, RO, 3mo	5.1-3 sh. 3
F010	18	Safety/Relief Valve (SRV) (h1.4) (h2.1) (k2)	AOV	1	A, C	A	R, P, S	5yr. RO, RO	5.1-3 Sh. 2
F011	1	MSL bypass/drain line inboard isolation valve (k1) (k2)	MOV	1	A	I, A	L, P, S	RO, RO, 3mo	5.1-3 sh. 3
F012	1	MSL bypass/drain line outboard isolation valve (k1) (k2)	MOV	1	A	I, A	L, P, S	RO, RO, 3mo	5.1-3 sh. 3
F013	1	MSL warmup line valve	MOV	2	B	P		E1	5.1-3 sh. 3
F016	1	MSL downstream drain line header valve	MOV	2	B	P		E1	5.1-3 sh. 3
F017	1	MSL downstream drain line header bypass (k2)	AOV	2	B	A	P, S	RO, 3mo	5.1-3 sh. 3
F018	1	RPV non-condensable gas removal line	MOV	1	B	P		E1	5.1-3 sh. 2
F019	1	RPV head vent inboard shutoff valve (h1.5)	MOV	1	B	A	P, S	RO, RO	5.1-3 sh. 2
F020	1	RPV head vent outboard shutoff valve (h1.5)	MOV	1	B	A	P	RO, RO	5.1-3 sh. 2

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F021</u>	<u>18</u>	<u>SRV discharge line vacuum breaker (h1.6)</u>	<u>VB</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>R,S</u>	<u>RO, RO</u>	<u>5.1-3 sh. 2</u>
<u>F022</u>	<u>18</u>	<u>SRV discharge line vacuum breaker (h1.6)</u>	<u>VB</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>R,S</u>	<u>RO, RO</u>	<u>5.1-3 sh.2</u>
<u>F024</u>	<u>4</u>	<u>Inboard MSIV nitrogen supply line check valve (h1.7)</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 3</u>
<u>F025</u>	<u>4</u>	<u>Outboard MSIV air supply line check valve (h1.7)</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 3</u>
<u>F026</u>	<u>8</u>	<u>SRV ADS pneumatic supply line check valve (k3) (h1.7)</u>	<u>CV</u>	<u>3</u>	<u>A, C</u>	<u>A</u>	<u>L,S</u>	<u>RO, RO</u>	<u>5.1-3 sh. 2</u>
<u>F029</u>	<u>18</u>	<u>SRV pneumatic supply check valve (h1.7)</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 2</u>
<u>F031</u>	<u>2</u>	<u>Inboard valve on the outboard FW line check valve test line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 4</u>
<u>F033</u>	<u>4</u>	<u>Inboard shutoff valve on the outboard MSIV test line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 3</u>
<u>F035</u>	<u>1</u>	<u>Inboard test line valve for the MSL bypass/drain valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 3</u>
<u>F039</u>	<u>2</u>	<u>Inboard test line valve for the inboard FW line check valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 4</u>
<u>F040</u>	<u>2</u>	<u>Outboard test line valve for the FW line check valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 4</u>
<u>F500</u>	<u>2</u>	<u>Inboard test line valve for the first FW line check valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 4</u>
<u>F503</u>	<u>2</u>	<u>Outboard drain line valve for the FW line check valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 4</u>
<u>F508</u>	<u>4</u>	<u>Inboard MSIV accumulator A001 drain valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 3</u>
<u>F509</u>	<u>4</u>	<u>Outboard MSIV accumulator A002 drain valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 3</u>
<u>F510</u>	<u>8</u>	<u>SRV ADS accumulator A003 drain valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 2</u>
<u>F511</u>	<u>18</u>	<u>SRV accumulator A004 drain valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 2</u>
<u>F700</u>	<u>4</u>	<u>Manual Isolation valve-RPV water level instrument reference leg line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 5.6</u>
<u>F701</u>	<u>4</u>	<u>Excess flow check valve-RPV water level instrument reference leg line (k4) (h3.2)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 5.6</u>
<u>F702</u>	<u>4</u>	<u>Manual isolation valve-RPV narrow range water level instrument sensing line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 5.6</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F703</u>	<u>4</u>	<u>Excess flow check valve-RPV narrow range water level instrument sensing line (k4) (h3.2).</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 5.6</u>
<u>F704</u>	<u>4</u>	<u>Manual isolation valve-RPV wide range water level instrument sensing line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 5.6</u>
<u>F705</u>	<u>4</u>	<u>Excess flow check valve-RPV wide range water level instrument sensing line (k4) (h3.2)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 5.6</u>
<u>F706</u>	<u>1</u>	<u>Root valve-Reactor well water level instrument sensing line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 5</u>
<u>F709</u>	<u>1</u>	<u>Manual isolation valve-RPV shutdown range water level instrument reference leg line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 2</u>
<u>F710</u>	<u>1</u>	<u>Excess flow check valve-RPV shutdown range water level instrument reference leg line (k4) (h3.2)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 2</u>
<u>F711</u>	<u>1</u>	<u>Manual isolation valve- RPV head seal leakage instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 8</u>
<u>F712</u>	<u>1</u>	<u>Excess flow check valve to RPV head seal leakage instrument line (k4) (h3.3)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 8</u>
<u>F713</u>	<u>4</u>	<u>Manual isolation valve- RPV above pump deck instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 7</u>
<u>F714</u>	<u>4</u>	<u>Excess flow check valve-RPV above pump deck instrument line (k4) (h3.2)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 7</u>
<u>F715</u>	<u>4</u>	<u>Manual isolation valve-RPV below pump deck instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 7</u>
<u>F716</u>	<u>4</u>	<u>Excess flow check valve-RPV below pump deck instrument line (k4) (h3.2)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 7</u>
<u>F717</u>	<u>4</u>	<u>Manual Isolation valve-RPV above core plate instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 7</u>
<u>F718</u>	<u>4</u>	<u>Excess flow check valve-RPV above core plate instrument line (k4) (h3.2)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 7</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F719</u>	<u>4</u>	<u>Manual isolation valve-RPV below core plate instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 7</u>
<u>F720</u>	<u>4</u>	<u>Excess flow check valve-RPV below core plate instrument line (k4) (h3.2)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 7</u>
<u>F723</u>	<u>4</u>	<u>Manual isolation valve-MSL flow restrictor instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 2</u>
<u>F724</u>	<u>4</u>	<u>Excess flow check valve-MSL flow restrictor instrument line (k4) (h3.2)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 2</u>
<u>F725</u>	<u>4</u>	<u>Manual isolation valve-MSL flow restrictor instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 2</u>
<u>F726</u>	<u>4</u>	<u>Excess flow check valve-MSL flow restrictor instrument line (k4) (h3.2)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.1-3 sh. 2</u>
<u>F727</u>	<u>2</u>	<u>MSL PX instrument line inboard root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.1-3 sh. 3</u>
<u>B31 Reactor Recirculation Internal Pump Valves</u>									
<u>F008</u>	<u>10</u>	<u>Excess flow check valve RIP pump motor purge water line (k4) (h3.4)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.4-4 sh. 2</u>
<u>F010</u>	<u>10</u>	<u>RIP pump motor purge water supply line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-4 sh. 1</u>
<u>F011</u>	<u>10</u>	<u>RIP inflatable pressurized water line inboard valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-4 sh. 1</u>
<u>F013</u>	<u>10</u>	<u>RIP seal equalizing line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-4 sh. 1</u>
<u>F015</u>	<u>10</u>	<u>Manual maintenance valve- RIP pump motor purge water line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-4 sh. 2</u>
<u>F500</u>	<u>10</u>	<u>RIP cooling water HX vent line inboard valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-4 sh. 1</u>
<u>F502</u>	<u>10</u>	<u>RIP drain line inboard valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-4 sh. 1</u>
<u>F505</u>	<u>10</u>	<u>RIP cooling water HX shell drain line inboard valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-4 sh. 1</u>
<u>C12 Control Rod Drive System Valves</u>									
<u>F719</u>	<u>4</u>	<u>Root valve charging line header pressure instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>4.6-8 sh. 2</u>
<u>F720</u>	<u>4</u>	<u>Root valve charging line header pressure instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>4.6-8</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>C41 Standby Liquid Control System Valves</u>									
<u>F001</u>	<u>2</u>	<u>SLCS storage tank outlet line MOV (k2)</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>9.3-1</u>
<u>F002</u>	<u>2</u>	<u>SLCS pump suction line maintenance valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.3-1</u>
<u>F003</u>	<u>2</u>	<u>SLCS pump discharge line relief valve</u>	<u>RV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>R</u>	<u>10yr</u>	<u>9.3-1</u>
<u>F004</u>	<u>2</u>	<u>SLCS pump discharge line check valve</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>9.3-1</u>
<u>F005</u>	<u>2</u>	<u>SLCS pump discharge line maintenance valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.3-1</u>
<u>F006</u>	<u>2</u>	<u>SLCS pump injection valve MOV</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, 3mo</u>	<u>9.3-1</u>
<u>F007</u>	<u>1</u>	<u>SLCS injection line outboard check valve (h5)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>L, S</u>	<u>2yr, 2yr</u>	<u>9.3-1</u>
<u>F008</u>	<u>1</u>	<u>SLCS injection line inboard check valve (h5)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>L, S</u>	<u>2yr, 2yr</u>	<u>9.3-1</u>
<u>F018</u>	<u>1</u>	<u>SLCS storage tank sample line inboard shutoff valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.3-1</u>
<u>F025</u>	<u>1</u>	<u>SLCS injection line test/vent line inboard valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.3-1</u>
<u>F500</u>	<u>1</u>	<u>SLCS pump suction line drain line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.3-1</u>
<u>F501</u>	<u>2</u>	<u>SLCS pump discharge line drain line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.3-1</u>
<u>C51 Neutron Monitoring System Valves</u>									
<u>J004</u>	<u>3</u>	<u>Isolation valve assembly:</u>							
		<u>ATIP ball valve (k1) (k2)</u>	<u>MN</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>7.6-1 sh. 3</u>
		<u>Index shear valve</u>	<u>EXP</u>	<u>2</u>	<u>A, D</u>	<u>A</u>	<u>X</u>	<u>RO</u>	<u>7.6-1 sh. 3</u>
<u>J011</u>	<u>1</u>	<u>Purge isolation valve</u>	<u>MN</u>	<u>2</u>	<u>A, C</u>	<u>I, P</u>	<u>L, P</u>	<u>2yr, 2yr</u>	<u>7.6-1 sh. 3</u>
<u>D23 Containment Atmospheric Monitoring System Valves</u>									
<u>F001</u>	<u>2</u>	<u>CAMS drywell pressure instrument line outboard isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>7.6-7 sh. 2</u>
<u>F004</u>	<u>2</u>	<u>CAMS drywell sample line outboard containment isolation valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>7.6-7 sh. 2</u>



**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
F005	2	CAMS drywell return line outboard containment isolation valve (k4) (k2)	MOV	2	A	I, A	P, S	RO, 3mo	7.6-7 sh. 2
F006	2	CAMS wetwell sample line outboard containment isolation valve (k4) (k2)	MOV	2	A	I, A	P, S	RO, 3mo	7.6-7 sh. 2
F007	2	CAMS wetwell return line outboard containment isolation valve (k4) (k2)	MOV	2	A	I, A	P, S	RO, 3mo	7.6-7 sh. 2
F008	2	CAMS rack drain line outboard containment isolation valve (k4) (k2)	MOV	2	A	I, A	P, S	RO, 3mo	7.6-7 sh. 2
F009	2	CAMS drywell pressure instrument line outboard isolation valve (k4)	MN	2	A	I, P		E1	7.6-7 sh. 2
F010	2	CAMS drywell sample line outboard valve (k4)	MN	2	A	I, P		E1	7.6-7 sh. 2
F011	2	CAMS drywell return line outboard valve (k4)	MN	2	A	I, P		E1	7.6-7 sh. 2
F012	2	CAMS wetwell sample line outboard valve (k4)	MN	2	A	I, P		E1	7.6-7 sh. 2
F013	2	CAMS wetwell return line outboard valve (k4)	MN	2	A	I, P		E1	7.6-7 sh. 2
F014	2	CAMS rack drain line outboard containment isolation valve (k4)	MN	2	A	I, P		E1	7.6-7 sh. 2
<u>E11 Residual Heat Removal System Valves</u>									
F001	3	Suppression pool suction valve (k4) (k2)	MOV	2	A	I, A	P, S	RO, 3mo	5.4-10 sh.3,4,6
F002	3	RHR pump discharge line check valve	CV	2	C	A	S	3mo	5.4-10 sh.3,4,6
F003	3	RHR pump discharge line maintenance valve	MN	2	B	P		E1	5.4-10 sh.3,4,6
F004	3	Heat Exchanger flow control valve	MOV	2	B	A	P, S	2yr, 3mo	5.4-10 sh.3,4,6
F005	1	RPV injection valve, Loop A (h6) (k3) (k2)	MOV	2	A	A	L, P, S	RO, RO,CS	5.4-10 sh. 3

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F005</u>	<u>2</u>	<u>RPV injection valve, Loop B &amp; C (k3) (k2) (h6)</u>	<u>MOV</u>	<u>1</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO,CS</u>	<u>5.4-10 sh. 5.7</u>
<u>F006</u>	<u>1</u>	<u>RPV injection line check valve, Loop A (k3) (k2)</u>	<u>AOV/CV</u>	<u>2</u>	<u>A, C</u>	<u>A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.4-10 sh. 3</u>
<u>F006</u>	<u>2</u>	<u>RPV injection line check valve, Loop B &amp; C (k3) (k2)</u>	<u>AOV/CV</u>	<u>1</u>	<u>A, C</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.4-10 sh. 5.7</u>
<u>F007</u>	<u>2</u>	<u>RPV injection line inboard maint. valve</u>	<u>MN</u>	<u>1</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 5.7</u>
<u>F008</u>	<u>3</u>	<u>Suppression pool return line MOV (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>5.4-10 sh. 3,4,6</u>
<u>F009</u>	<u>3</u>	<u>Shutdown Cooling suction line maintenance valve</u>	<u>MN</u>	<u>1</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 2</u>
<u>F010</u>	<u>3</u>	<u>Shutdown Cooling suction line inboard isolation valve (k3) (k2) (h6)</u>	<u>MOV</u>	<u>1</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO,CS</u>	<u>5.4-10 sh. 2</u>
<u>F011</u>	<u>3</u>	<u>Shutdown Cooling suction line outboard isolation valve (k3) (k2) (h6)</u>	<u>MOV</u>	<u>1</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO,CS</u>	<u>5.4-10 sh. 2</u>
<u>F012</u>	<u>3</u>	<u>Shutdown Cooling suction line adm. valve</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>5.4-10 sh.3,4,6</u>
<u>F013</u>	<u>3</u>	<u>Heat exchanger bypass flow control valve</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>5.4-10 sh.3,4,6</u>
<u>F014</u>	<u>3</u>	<u>Fuel Pool Cooling supply line inboard MOV</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>5.4-10 sh. 3,5,7</u>
<u>F015</u>	<u>3</u>	<u>Fuel Pool Cooling supply line outboard MOV</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>5.4-10 sh. 3,5,7</u>
<u>F016</u>	<u>3</u>	<u>Gate valve-line from Fuel Pool Cooling (FPC)</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>S</u>	<u>RO</u>	<u>5.4-10 sh. 2</u>
<u>F017</u>	<u>2</u>	<u>Drywell spray line inboard valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>5.4-10 sh. 5.7</u>
<u>F018</u>	<u>2</u>	<u>Drywell spray line outboard valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>5.4-10 sh. 5.7</u>
<u>F019</u>	<u>2</u>	<u>Wetwell spray line MOV (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>5.4-10 sh. 5.7</u>
<u>F020</u>	<u>3</u>	<u>RHR pump min flow bypass line check valve</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>5.4-10 sh.3,4,6</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F021</u>	<u>3</u>	<u>RHR pump min flow bypass line MOV (k4)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>5.4-10 sh.3.4.6</u>
<u>F022</u>	<u>3</u>	<u>Discharge line fill pump suction line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F023</u>	<u>3</u>	<u>Fill pump discharge line check valve</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>5.4-10 sh.3.4.6</u>
<u>F024</u>	<u>3</u>	<u>Fill pump discharge line stop check valve</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>5.4-10 sh.3.4.6</u>
<u>F025</u>	<u>3</u>	<u>Fill pump minimum flow line globe valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F026</u>	<u>3</u>	<u>RHR pump suction to High Conductivity Waste (HCW)</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F027</u>	<u>3</u>	<u>Bypass line around the check valve MPL E11-F002</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F028</u>	<u>3</u>	<u>Heat Exchanger outlet line relief valve</u>	<u>RV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>R</u>	<u>5yr</u>	<u>5.4-10 sh.3.4.6</u>
<u>F029</u>	<u>3</u>	<u>Inboard reactor well drain line valve</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F030</u>	<u>3</u>	<u>Drain to radwaste valve</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F031</u>	<u>3</u>	<u>Outboard reactor well drain line valve (to SP) (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>5.4-10 sh.3.4.6</u>
<u>F032</u>	<u>3</u>	<u>Shutoff valve-line from MUWC</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.5.7</u>
<u>F033</u>	<u>3</u>	<u>Check valve in the line from MUWC</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>5.4-10 sh.3.5.7</u>
<u>F034</u>	<u>1</u>	<u>RPV injection line vent/test line inboard valve, Loop A</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 3</u>
<u>F034</u>	<u>2</u>	<u>RPV injection line vent/test line inboard valve, Loop B&amp;C</u>	<u>MN</u>	<u>1</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 5.7</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F036</u>	<u>1</u>	<u>Press equal valve around check valve E11-F006, Loop A (k3)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>P</u>	<u>L</u>	<u>RO</u>	<u>5.4-10 sh. 3</u>
<u>F036</u>	<u>2</u>	<u>Press equal valve around check valve E11-F006, Loop B&amp;C (k3) (k2)</u>	<u>AOV</u>	<u>1</u>	<u>A</u>	<u>P</u>	<u>L, P</u>	<u>RO, RO</u>	<u>5.4-10 sh. 5,7</u>
<u>F037</u>	<u>3</u>	<u>Shutdown cooling suction line test line (k3)</u>	<u>MN</u>	<u>1</u>	<u>A</u>	<u>P</u>	<u>L</u>	<u>RO</u>	<u>5.4-10 sh. 2</u>
<u>F039</u>	<u>3</u>	<u>Relief valve around the MOV MPL E11-F011</u>	<u>RV</u>	<u>1</u>	<u>C</u>	<u>A</u>	<u>R</u>	<u>5yr</u>	<u>5.4-10 sh. 2</u>
<u>F040</u>	<u>3</u>	<u>Shutoff valve-line from MUWC</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 2</u>
<u>F041</u>	<u>3</u>	<u>Check valve line from Make-Up Water Condenser (MUWC)</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>5.4-10 sh. 2</u>
<u>F042</u>	<u>3</u>	<u>Shutdown Cooling Mode suction line relief valve</u>	<u>RV</u>	<u>2</u>	<u>C</u>	<u>A</u>		<u>E1</u>	<u>5.4-10 sh.3,4,6</u>
<u>F043</u>	<u>3</u>	<u>HX outlet to the Sampling System (SS) test inboard valve</u>	<u>SOV</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3,4,6</u>
<u>F045</u>	<u>1</u>	<u>HX outlet to the PASS-inboard valve</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>5.4-10 sh. 3</u>
<u>F046</u>	<u>1</u>	<u>HX outlet to the PASS-outboard valve</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>5.4-10 sh. 3</u>
<u>F047</u>	<u>2</u>	<u>Shutoff -line from MUWC</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 5,7</u>
<u>F048</u>	<u>2</u>	<u>Check valve line from MUWC</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 5,7</u>
<u>F049</u>	<u>2</u>	<u>Drywell spray line vent &amp; test line inboard valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 5,7</u>
<u>F051</u>	<u>3</u>	<u>Fill pump discharge line relief valve</u>	<u>RV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>R</u>	<u>10yr</u>	<u>5.4-10 sh.3,4,6</u>
<u>F052</u>	<u>1</u>	<u>Drain line for the suppression pool</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 4</u>
<u>F101</u>	<u>1</u>	<u>AC independent water addition input valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>S</u>	<u>2yr</u>	<u>5.4-10 sh. 7</u>
<u>F102</u>	<u>1</u>	<u>AC independent water addition input valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>S</u>	<u>2yr</u>	<u>5.4-10 sh. 7</u>
<u>F500</u>	<u>3</u>	<u>Heat exchanger inlet drain line inboard valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3,4,6</u>
<u>F502</u>	<u>3</u>	<u>HX outlet line drain line inboard valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3,4,6</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F504</u>	<u>3</u>	<u>RPV injection line vent line inboard valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.5.7</u>
<u>F506</u>	<u>1</u>	<u>RPV injection line drain line inboard valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 3</u>
<u>F506</u>	<u>2</u>	<u>RPV injection line drain line inboard valve</u>	<u>MN</u>	<u>1</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 5.7</u>
<u>F508</u>	<u>3</u>	<u>Shutdown Cooling suction line vent line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 2</u>
<u>F509</u>	<u>2</u>	<u>Vent valve-FPC return line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 5.7</u>
<u>F511</u>	<u>2</u>	<u>Drywell spray line inboard drain line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 5.7</u>
<u>F513</u>	<u>2</u>	<u>Drywell spray line inboard drain line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 5.7</u>
<u>F515</u>	<u>2</u>	<u>Wetwell spray line inboard drain line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 5.7</u>
<u>F517</u>	<u>3</u>	<u>RHR pump min flow line drain line inboard valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F700</u>	<u>3</u>	<u>RHR pump suction line pressure instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F701</u>	<u>3</u>	<u>RHR pump suction line pressure instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F702</u>	<u>3</u>	<u>RHR pump discharge line pressure instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F704</u>	<u>3</u>	<u>RHR pump discharge line pressure instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F706</u>	<u>3</u>	<u>RHR pump discharge line pressure instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F707</u>	<u>3</u>	<u>RHR pump discharge line pressure instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F708</u>	<u>3</u>	<u>FT MPL E11-FT008 instrument line inboard root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>
<u>F709</u>	<u>3</u>	<u>FT MPL E11-FT008 instrument line outboard root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3.4.6</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F710</u>	<u>3</u>	<u>FT MPL E11-FT008 instrument line inboard root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3,4,6</u>
<u>F711</u>	<u>3</u>	<u>FT MPL E11-FT008 instrument line outboard root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3,4,6</u>
<u>F712</u>	<u>3</u>	<u>Shutdown Cooling Mode suction line pressure instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3,4,6</u>
<u>F713</u>	<u>3</u>	<u>Fill pump suction line instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh.3,4,6</u>
<u>F714</u>	<u>1</u>	<u>Discharge to radwaste flow instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 4</u>
<u>F716</u>	<u>1</u>	<u>Discharge to radwaste flow instrument line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 4</u>
<u>F718</u>	<u>3</u>	<u>Fill pump discharge line check valve test point</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 3,4,6</u>
<u>F720</u>	<u>3</u>	<u>Fill pump discharge line check valve test point</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-10 sh. 3,4,6</u>
<u>E22 High Pressure Core Flooder System Valves</u>									
<u>F001</u>	<u>2</u>	<u>Condensate Storage Tank (CST) suction line MOV</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 2yr, 3mo</u>	<u>6.3-7 sh. 2</u>
<u>F002</u>	<u>2</u>	<u>CST suction line check valve</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>6.3-7 sh. 2</u>
<u>F003</u>	<u>2</u>	<u>HPCF System injection valve (k3) (k2) (h6)</u>	<u>MOV</u>	<u>1</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, CS</u>	<u>6.3-7 sh. 1</u>
<u>F004</u>	<u>2</u>	<u>HPCF System inboard check valve (k3) (k2)</u>	<u>AOV/CV</u>	<u>1</u>	<u>A, C</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>6.3-7 sh. 1</u>
<u>F005</u>	<u>2</u>	<u>Pump discharge line inboard maintenance valve</u>	<u>MN</u>	<u>1</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.3-7 sh. 1</u>
<u>F006</u>	<u>2</u>	<u>Suppression pool suction line MOV (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>6.3-7 sh. 2</u>
<u>F007</u>	<u>2</u>	<u>Suppression pool suction line check valve</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>6.3-7 sh. 2</u>
<u>F008</u>	<u>2</u>	<u>Test return line inboard valve</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>6.3-7 sh. 2</u>
<u>F009</u>	<u>2</u>	<u>Test return line outboard valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>6.3-7 sh. 2</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
F010	2	Pump minimum flow bypass line MOV (k4) (k2)	MOV	2	A	I, A	P, S	RO, 3mo	6.3-7 sh. 2
F011	2	Bypass line shutoff valve around check valve E22-F002	MN	2	B	P		E1	6.3-7 sh. 2
F012	2	HPCI pump suction line drain line to HCW	MN	2	B	P		E1	6.3-7 sh. 2
F014	2	Pump discharge line fill line outboard check valve	CV	2	C	A	S	3mo	6.3-7 sh. 1
F015	2	Pump discharge line fill line outboard check valve	CV	2	C	A	S	3mo	6.3-7 sh. 1
F017	2	Pump discharge line test and vent line inboard valve	MN	1	B	P		E1	6.3-7 sh. 1
F019	2	Pressure equalizing valve around check valve E22-F004	MOV	1	A	P	L, P	RO, RO	6.3-7 sh. 1
F020	2	Suppression pool suction line relief valve	RV	2	C	A	R	10yr	6.3-7 sh. 2
F021	2	Pump discharge check valve	CV	2	C	A	S	3mo	6.3-7 sh. 2
F022	2	Suppression pool suction line test line valve	MN	2	B	P		E1	6.3-7 sh. 2
F023	2	Pump discharge line test line valve	MN	2	B	P		E1	6.3-7 sh. 2
F500	2	Pump discharge line high point vent inboard valve	MN	2	B	P		E1	6.3-7 sh. 1
F502	2	Pump discharge line drywell test line inboard valve	MN	2	B	P		E1	6.3-7 sh. 1
F700	2	Pump suction line pressure instrument line root valve	MN	2	B	P		E1	6.3-7 sh. 2
F701	2	Pump suction line pressure instrument line root valve	MN	2	B	P		E1	6.3-7 sh. 2
F702	2	Pump discharge line pressure instrument line inboard valve	MN	2	B	P		E1	6.3-7 sh. 2
F704	2	Pump discharge line pressure instrument line inboard valve	MN	2	B	P		E1	6.3-7 sh. 2
F705	2	Pump discharge line pressure instrument line outboard valve	MN	2	B	P		E1	6.3-7 sh. 2
F706	2	Pump discharge line flow instrument line inboard valve	MN	2	B	P		E1	6.3-7 sh. 1
F707	2	Pump discharge line flow instrument line outboard valve	MN	2	B	P		E1	6.3-7 sh. 1
F708	2	Pump discharge line flow instrument line inboard valve	MN	2	B	P		E1	6.3-7 sh. 1
F709	2	Pump discharge line flow instrument line outboard valve	MN	2	B	P		E1	6.3-7 sh. 1

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>E31 Leak Detection and Isolation System Valves</u>									
<u>F001</u>	<u>1</u>	<u>Drywell fission product monitoring line maintenance valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.2-8 sh. 9</u>
<u>F002</u>	<u>1</u>	<u>Drywell fission product monitoring line inboard isolation valve (k1) (k2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.2-8 sh. 9</u>
<u>F003</u>	<u>1</u>	<u>Drywell fission product monitoring line outboard isolation valve (k1) (k2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.2-8 sh. 9</u>
<u>F004</u>	<u>1</u>	<u>Drywell fission product monitoring line outboard isolation valve (k1) (k2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.2-8 sh. 9</u>
<u>F005</u>	<u>1</u>	<u>Drywell fission product monitoring line inboard isolation valve (k1) (k2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.2-8 sh. 9</u>
<u>F006</u>	<u>1</u>	<u>Drywell fission product monitoring line maintenance valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.2-8 sh. 9</u>
<u>F701</u>	<u>4</u>	<u>RCIC instrument line manual maintenance valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.2-8 sh. 6</u>
<u>F702</u>	<u>4</u>	<u>RCIC instrument line isolation excess flow check valve (h3.5) (k4)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.2-8 sh. 6</u>
<u>F703</u>	<u>4</u>	<u>RCIC instrument line manual maintenance valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.2-8 sh. 6</u>
<u>F704</u>	<u>4</u>	<u>RCIC instrument line isolation excess flow check valve (h3.5) (k4)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>5.2-8 sh. 6</u>
<u>E51 Reactor Core Isolation Cooling System Valves</u>									
<u>F001</u>	<u>1</u>	<u>Condensate Storage Tank (CST) suction line MOV</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>5.4-8 sh. 1</u>
<u>F002</u>	<u>1</u>	<u>CST suction line check valve</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>5.4-8 sh. 1</u>
<u>F003</u>	<u>1</u>	<u>RCIC pump discharge line check valve</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>5.4-8 sh. 1</u>
<u>F004</u>	<u>1</u>	<u>RCIC System injection valve (k3) (k2) (h6)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>A</u>	<u>L, P, S</u>	<u>RO, RO, CS</u>	<u>5.4-8 sh. 1</u>
<u>F005</u>	<u>1</u>	<u>RCIC System discharge line testable check valve (k3) (k2)</u>	<u>AOV/CV</u>	<u>2</u>	<u>A, C</u>	<u>A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.4-8 sh. 1</u>



**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
F006	1	Suppression Pool (CSP) suction line MOV (k4) (k2)	MOV	2	A	I, A	P, S	RO, 3mo	5.4-8 sh. 1
F007	1	Suppression Pool (CSP) suction line check valve	CV	2	C	A	S	3mo	5.4-8 sh. 1
F008	1	RCIC System suppression pool test return line MOV	MOV	2	B	A	P, S	2yr, 3mo	5.4-8 sh. 1
F009	1	RCIC System suppression pool test return line MOV (k4) (k2)	MOV	2	A	I, A	P, S	RO, 3mo	5.4-8 sh. 1
F010	1	RCIC System minimum flow bypass line check valve	CV	2	C	A	P, S	2yr, 3mo	5.4-8 sh. 1
F011	1	RCIC System minimum flow bypass line MOV (k4) (k2)	MOV	2	A	I, A	P, S	RO, 3mo	5.4-8 sh. 1
F017	1	RCIC pump suction line relief valve	RV	2	C	A	R	10yr	5.4-8 sh. 1
F018	1	Valve in the bypass line around check valve E51-F003	MN	2	B	P		E1	5.4-8 sh. 1
F019	1	Pump discharge line test line valve	MN	2	B	P		E1	5.4-8 sh. 1
F020	1	Pump discharge line test line valve	MN	2	B	P		E1	5.4-8 sh. 1
F021	1	Pump discharge line fill line shutoff valve	MN	2	B	P		E1	5.4-8 sh. 1
F022	1	Pump discharge line fill line check valve	CV	2	C	A	S	3mo	5.4-8 sh. 1
F023	1	Pump discharge line fill line check valve	CV	2	C	A	S	3mo	5.4-8 sh. 1
F024	1	Pump discharge line test line valve	MN	2	B	P		E1	5.4-8 sh. 1
F025	1	Pump discharge line test line valve	MN	2	B	P		E1	5.4-8 sh. 1
F026	1	Valve in pressure equalizing line around E51-F005	AOV	2	B	P		E1	5.4-8 sh. 1
F027	1	Suppression Pool (S/P) suction line test line valve	MN	2	B	P		E1	5.4-8 sh. 1
F028	1	Minimum flow bypass line test line valve	MN	2	B	P		E1	5.4-8 sh. 1
F029	1	Minimum flow bypass line test line valve	MN	2	B	P		E1	5.4-8 sh. 1
F033	1	Discharge line fill line bypass line shutoff valve	MN	2	B	P		E1	5.4-8 sh. 1
F035	1	Steam supply line isolation valve (k1) (k2)	MOV	1	A	I, A	L, P, S	RO, RO, 3mo	5.4-8 sh. 2
F036	1	Steam supply line isolation valve (k1) (k2)	MOV	1	A	I, A	L, P, S	RO, RO, 3mo	5.4-8 sh. 2

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F037</u>	<u>1</u>	<u>Steam admission valve</u>	<u>MOV</u>	<u>2</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>5.4-8 sh. 2</u>
<u>F038</u>	<u>1</u>	<u>Turbine exhaust line check valve</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>L, S</u>	<u>2yr, 3mo</u>	<u>5.4-8 sh. 1</u>
<u>F039</u>	<u>1</u>	<u>Turbine exhaust line MOV</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, 3mo</u>	<u>5.4-8 sh. 1</u>
<u>F048</u>	<u>1</u>	<u>Steam supply line warm-up line valve (k1) (k2)</u>	<u>MOV</u>	<u>1</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.4-8 sh. 2</u>
<u>F049</u>	<u>1</u>	<u>Steam supply line test line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 2</u>
<u>F050</u>	<u>1</u>	<u>Steam supply line test line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 2</u>
<u>F053</u>	<u>1</u>	<u>Turbine exhaust line test line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F054</u>	<u>1</u>	<u>Turbine exhaust line vacuum breaker (h1.8)</u>	<u>VB</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>R</u>	<u>RO</u>	<u>5.4-8 sh. 1</u>
<u>F055</u>	<u>1</u>	<u>Turbine exhaust line vacuum breaker (h1.8)</u>	<u>VB</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>R</u>	<u>RO</u>	<u>5.4-8 sh. 1</u>
<u>F056</u>	<u>1</u>	<u>Steam supply line drain pot drain line test line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 2</u>
<u>F057</u>	<u>1</u>	<u>Steam supply line drain pot drain line test drain line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 2</u>
<u>F500</u>	<u>1</u>	<u>Pump discharge line vent line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F501</u>	<u>1</u>	<u>Pump discharge line vent line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F502</u>	<u>1</u>	<u>Pump discharge line drain line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F503</u>	<u>1</u>	<u>Pump discharge line drain line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F700</u>	<u>1</u>	<u>Pump suction line pressure instrumentation instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F701</u>	<u>1</u>	<u>Pump suction line pressure instrumentation instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F702</u>	<u>1</u>	<u>Pump discharge line pressure instrumentation instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F703</u>	<u>1</u>	<u>Pump discharge line pressure instrumentation instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F704</u>	<u>1</u>	<u>Pump discharge line pressure instrumentation instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F705</u>	<u>1</u>	<u>Pump discharge line pressure instrumentation instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F706</u>	<u>1</u>	<u>Pump discharge line flow instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F707</u>	<u>1</u>	<u>Pump discharge line flow instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F708</u>	<u>1</u>	<u>Pump discharge line flow instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F709</u>	<u>1</u>	<u>Pump discharge line flow instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F710</u>	<u>1</u>	<u>Pump discharge line pressure instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F711</u>	<u>1</u>	<u>Pump discharge line pressure instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 1</u>
<u>F716</u>	<u>1</u>	<u>Steam supply line pressure instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 2</u>
<u>F717</u>	<u>1</u>	<u>Steam supply line pressure instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 2</u>
<u>F718</u>	<u>1</u>	<u>Steam supply line drain pot instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 2</u>
<u>F719</u>	<u>1</u>	<u>Steam supply line drain pot instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 2</u>
<u>F720</u>	<u>1</u>	<u>Steam supply line drain pot instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 2</u>
<u>F721</u>	<u>1</u>	<u>Steam supply line drain pot instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 2</u>
<u>F722</u>	<u>1</u>	<u>Turbine exhaust pressure instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 3</u>
<u>F723</u>	<u>1</u>	<u>Turbine exhaust pressure instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 3</u>
<u>F724</u>	<u>1</u>	<u>Turbine exhaust pressure between rupture disk instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 3</u>
<u>F725</u>	<u>1</u>	<u>Turbine exhaust pressure between rupture disk instrument root valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-8 sh. 3</u>
<u>G31 Reactor Water Cleanup System Valves</u>									
<u>F001</u>	<u>1</u>	<u>Line inside containment from RHR system maintenance valve</u>	<u>MN</u>	<u>1</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-12 sh. 1</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F002</u>	<u>1</u>	<u>CUW System suction line inboard isolation valve (k1) (k2)</u>	<u>MOV</u>	<u>1</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.4-12 sh. 1</u>
<u>F003</u>	<u>1</u>	<u>CUW System suction line outboard isolation valve (k1) (k2)</u>	<u>MOV</u>	<u>1</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.4-12 sh. 1</u>
<u>F017</u>	<u>1</u>	<u>CUW System RPV head spray line outboard isolation valve (k1) (k2)</u>	<u>MOV</u>	<u>1</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.4-12 sh. 1</u>
<u>F018</u>	<u>1</u>	<u>CUW System RPV head spray line inboard check valve (k1) (h1.9)</u>	<u>CV</u>	<u>1</u>	<u>A, C</u>	<u>I, A</u>	<u>L, S</u>	<u>RO, RO</u>	<u>5.4-12 sh. 1</u>
<u>F019</u>	<u>1</u>	<u>CUW System bottom head drain line maintenance valve</u>	<u>MN</u>	<u>1</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-12 sh. 1</u>
<u>F026</u>	<u>1</u>	<u>CUW System suction line shutoff valve (k2)</u>	<u>MOV</u>	<u>1</u>	<u>B</u>	<u>P</u>	<u>P</u>	<u>RO</u>	<u>5.4-12 sh. 1</u>
<u>F050</u>	<u>1</u>	<u>Test line off the suction line outboard isolation valve G31-F003</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-12 sh. 1</u>
<u>F058</u>	<u>1</u>	<u>Test line off RPV head spray line outboard isolation valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-12 sh. 1</u>
<u>F060</u>	<u>1</u>	<u>RPV bottom head drain line sample line test line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-12 sh. 1</u>
<u>F070</u>	<u>1</u>	<u>RPV bottom head drain line sample line maintenance valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-12 sh. 1</u>
<u>F071</u>	<u>1</u>	<u>RPV bottom head drain line sample line inboard valve (k1) (k2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.4-12 sh. 1</u>
<u>F072</u>	<u>1</u>	<u>RPV bottom head drain line sample line outboard valve (k1) (k2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>5.4-12 sh. 1</u>
<u>F500</u>	<u>1</u>	<u>CUW System bottom head drain line drain valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-12 sh. 1</u>
<u>F501</u>	<u>1</u>	<u>CUW System bottom head drain line drain valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-12 sh. 1</u>
<u>F700</u>	<u>2</u>	<u>CUW System suction line FE upstream instrument manual maintenance valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-12 sh. 1</u>
<u>F701</u>	<u>2</u>	<u>CUW System suction line FE downstream instrument manual maintenance valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>5.4-12 sh. 1</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F702</u>	<u>2</u>	<u>CUW System suction line FE upstream instrument excess flow check valve (k4) (h3.6) (k2).</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S, P</u>	<u>RO, RO</u>	<u>5.4-12 sh. 1</u>
<u>F703</u>	<u>2</u>	<u>CUW System suction line FE downstream instrument excess flow check valve (k4) (h3.6) (k2).</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S, P</u>	<u>RO, RO</u>	<u>5.4-12 sh. 1</u>
<u>G41 Fuel Pool Cooling and Cleanup Valves</u>									
<u>F015</u>	<u>2</u>	<u>FPC system heat exchanger outlet line maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.1-1 sh. 2</u>
<u>F016</u>	<u>1</u>	<u>FPC system discharge line to spent fuel pool check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>9.1-1 sh. 2</u>
<u>F017</u>	<u>1</u>	<u>FPC system discharge line to spent fuel pool maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.1-1 sh. 2</u>
<u>F018</u>	<u>1</u>	<u>FPC system discharge line to spent fuel pool check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>9.1-1 sh. 2</u>
<u>F019</u>	<u>2</u>	<u>FPC system discharge line to spent fuel pool valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.1-1 sh. 1</u>
<u>F020</u>	<u>2</u>	<u>FPC system discharge line to spent fuel pool check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>9.1-1 sh. 1</u>
<u>F022</u>	<u>1</u>	<u>FPC system discharge line to reactor well maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.1-1 sh. 2</u>
<u>F023</u>	<u>1</u>	<u>FPC system discharge line to reactor well check valve (h7)</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>RO</u>	<u>9.1-1 sh. 2</u>
<u>F091</u>	<u>1</u>	<u>FPC system supply line from SPCU check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>9.1-1 sh. 2</u>
<u>F093</u>	<u>1</u>	<u>FPC system RHR return line valve to FPC</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.1-1 sh. 2</u>
<u>F094</u>	<u>1</u>	<u>FPC system RHR return line check valve to FPC (h7)</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>RO</u>	<u>9.1-1 sh. 2</u>
<u>F095</u>	<u>1</u>	<u>FPC system discharge line to spent fuel pool sample line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.1-1 sh. 2</u>
<u>F506</u>	<u>1</u>	<u>FPC system line valve from RHR-to-FPC line to LCW</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.1-1 sh. 2</u>
<u>G51 Suppression Pool Cleanup System Valves</u>									

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F001</u>	<u>1</u>	<u>SPCU suction line inboard isolation valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>9.5-1</u>
<u>F002</u>	<u>1</u>	<u>SPCU suction line outboard isolation valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>9.5-1</u>
<u>F006</u>	<u>1</u>	<u>SPCU return line isolation valve (k4) (k2)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>3mo</u>	<u>9.5-1</u>
<u>F007</u>	<u>1</u>	<u>SPCU return line isolation valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>9.5-1</u>
<u>K17 Radwaste System Valves</u>									
<u>F003</u>	<u>1</u>	<u>Drywell LCW sump pump inboard discharge line isolation valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>11A.2-2 sh. 29</u>
<u>F004</u>	<u>1</u>	<u>Drywell LCW sump pump outboard discharge line isolation valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>11A.2-2 sh. 29</u>
<u>F103</u>	<u>1</u>	<u>Drywell HCW sump pump inboard discharge line isolation valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>11A.2-2 sh. 30</u>
<u>F104</u>	<u>1</u>	<u>Drywell HCW sump pump outboard discharge line isolation valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>11A.2-2 sh. 30</u>
<u>P11 Makeup Water (Purified) System Valves</u>									
<u>F141</u>	<u>1</u>	<u>Outboard isolation valve (k1)</u>	<u>MN</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>L</u>	<u>RO</u>	<u>9.2-5 sh. 2</u>
<u>F142</u>	<u>1</u>	<u>Inboard isolation valve (k1)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, P</u>	<u>L</u>	<u>RO</u>	<u>9.2-5 sh. 2</u>
<u>P21 Reactor Building Cooling Water System Valves</u>									
<u>F001</u>	<u>6</u>	<u>Pump discharge line check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>E2</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F002</u>	<u>6</u>	<u>Pump discharge line maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F003</u>	<u>9</u>	<u>Heat exchanger inlet line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F004</u>	<u>9</u>	<u>Heat exchanger outlet line MOV</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>P</u>	<u>P</u>	<u>2yr</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F005</u>	<u>3</u>	<u>Cold water line to hot/cold water blender</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F006</u>	<u>3</u>	<u>Hot/cold water blender valve- cold water</u>	<u>AOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>S</u>	<u>E2</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F007</u>	<u>3</u>	<u>Hot/cold water blender outlet line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F008</u>	<u>3</u>	<u>Hot/cold water blender cold water bypass line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F009</u>	<u>3</u>	<u>Hot water line to hot/cold water blender</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F010</u>	<u>3</u>	<u>Hot/cold water blender valve- hot water</u>	<u>AOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>S</u>	<u>E2</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F011</u>	<u>3</u>	<u>Hot/cold water blender hot water bypass line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F012</u>	<u>3</u>	<u>Cooling water supply line to RHR System maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F013</u>	<u>3</u>	<u>Cooling water return line from RHR System MOV</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F014</u>	<u>3</u>	<u>Cooling water return line from RHR Hx maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F015</u>	<u>6</u>	<u>Pump suction line maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F016</u>	<u>3</u>	<u>Surge tank outlet line to RCW pump suction</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F017</u>	<u>3</u>	<u>Surge tank makeup water line from SPCU</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F018</u>	<u>3</u>	<u>Surge tank makeup water line from SPCU</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>P</u>	<u>P</u>	<u>2yr</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F019</u>	<u>3</u>	<u>Surge tank makeup water from MUWP</u>	<u>AOV</u>	<u>3</u>	<u>B</u>	<u>P</u>	<u>P</u>	<u>2yr</u>	<u>9.2-1 sh. 2.5.8</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F020</u>	<u>3</u>	<u>Surge tank makeup water line from MUWP</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F021</u>	<u>3</u>	<u>Chemical addition tank inlet line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F022</u>	<u>3</u>	<u>Chemical addition tank outlet line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F024</u>	<u>6</u>	<u>Cooling water supply line to HECW refrigerator maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F025</u>	<u>6</u>	<u>Cooling water supply line to HECW refrigerator PCV</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>S</u>	<u>E2</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F026</u>	<u>6</u>	<u>Cooling water supply line to HECW refrigerator maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F027</u>	<u>6</u>	<u>Cooling water line to HECW refrigerator bypass line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F028</u>	<u>6</u>	<u>Cooling water return line from HECW refrigerator</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F029</u>	<u>2</u>	<u>Cooling water supply line to FPC Hx</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5</u>
<u>F030</u>	<u>2</u>	<u>Cooling water return line from FPC Hx</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5</u>
<u>F031</u>	<u>2</u>	<u>Cooling water supply line to FPC pump room air conditioner</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5</u>
<u>F032</u>	<u>2</u>	<u>Cooling water return line from FPC pump room air conditioner</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5</u>
<u>F033</u>	<u>2</u>	<u>Cooling water line to PCV Atmospheric Monitoring System clr</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5</u>
<u>F034</u>	<u>2</u>	<u>Return line from PCV Atmospheric Monitoring System clr</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5</u>
<u>F035</u>	<u>2</u>	<u>Cooling water supply line to SGTS room air conditioner</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5</u>



**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F036</u>	<u>2</u>	<u>Cooling water return line from SGTS room air conditioner</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5</u>
<u>F039</u>	<u>3</u>	<u>Cooling water supply line to RHR equipment room air conditioner</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F040</u>	<u>3</u>	<u>Cooling water return line from RHR equipment room air conditioner</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F041</u>	<u>3</u>	<u>Cooling water supply line to RHR pump motor</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F042</u>	<u>3</u>	<u>Cooling water return line from RHR pump motor</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F043</u>	<u>3</u>	<u>Cooling water supply line to RHR pump mechanical seals</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F044</u>	<u>3</u>	<u>Cooling water return line from RHR pump mechanical seals</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F045</u>	<u>1</u>	<u>Cooling water supply line to RCIC equipment room air conditioner</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2</u>
<u>F046</u>	<u>1</u>	<u>Cooling water supply line from RCIC equipment room air conditioner</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2</u>
<u>F047</u>	<u>2</u>	<u>Cooling water supply line to HPCF equipment room air conditioner</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 5.8</u>
<u>F048</u>	<u>2</u>	<u>Cooling water supply line from HPCF equipment room air conditioner</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 5.8</u>
<u>F049</u>	<u>2</u>	<u>Cooling water supply line to HPCF pump motor bearing</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 5.8</u>
<u>F050</u>	<u>2</u>	<u>Cooling water return line from HPCF pump motor bearing</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 5.8</u>
<u>F051</u>	<u>2</u>	<u>Cooling water supply line to HPCF pump mechanical seals</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 5.8</u>
<u>F052</u>	<u>2</u>	<u>Cooling water return from HPCF pump mechanical seals</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 5.8</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F053</u>	<u>2</u>	<u>Surge tank outlet line to HECW System</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F055</u>	<u>6</u>	<u>Cooling water return line from Emergency Diesel Generator</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>9.2-1 sh. 5.8</u>
<u>F056</u>	<u>3</u>	<u>Cooling water return line from Emergency Diesel Generator maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F057</u>	<u>2</u>	<u>Cooling water line to PCV Atmospheric Monitoring System</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5</u>
<u>F058</u>	<u>2</u>	<u>Return line from PCV Atmospheric Monitoring System air conditioner</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5</u>
<u>F061</u>	<u>3</u>	<u>Cooling water line Emergency Diesel Generators</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F071</u>	<u>6</u>	<u>Cooling water supply line-to non-essential coolers</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F072</u>	<u>6</u>	<u>Cooling water supply line-to non-essential coolers</u>	<u>AOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F075</u>	<u>2</u>	<u>Cooling water supply line to PCV outboard isolation valve (k4) (k2) (h3.7)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, CS</u>	<u>9.2-1 sh. 3.6</u>
<u>F076</u>	<u>2</u>	<u>Cooling water supply line to PCV inboard check isolation valve (k4) (h1.10)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>9.2-1 sh. 3.6</u>
<u>F080</u>	<u>2</u>	<u>Cooling water return line from PCV inboard isolation valve (k4) (h1.10)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, RO</u>	<u>9.2-1 sh. 3.6</u>
<u>F081</u>	<u>2</u>	<u>Cooling water return line from PCV outboard isolation valve (k4) (k2) (h3.7)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, CS</u>	<u>9.2-1 sh. 3.6</u>
<u>F083</u>	<u>3</u>	<u>Cooling water return line from non-essential coolers (h4)</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>RO</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F084</u>	<u>3</u>	<u>Cooling water return line from containment bypass line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F175</u>	<u>3</u>	<u>Cooling water supply to RHR System Hx pressure relief valve</u>	<u>RV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>R</u>	<u>10yr</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F195</u>	<u>2</u>	<u>Cooling water supply line to FPC heat exchanger</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>9.2-1 sh. 2.5</u>
<u>F220</u>	<u>9</u>	<u>Bypass line around RCW System outlet line MOV</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F251</u>	<u>2</u>	<u>Cooling water supply line to PCV test line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 3.6</u>
<u>F252</u>	<u>2</u>	<u>Cooling water return line from PCV test line</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 3.6</u>
<u>F501</u>	<u>9</u>	<u>Heat exchanger shell side vent line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F502</u>	<u>9</u>	<u>Heat exchanger shell side drain line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F503</u>	<u>3</u>	<u>Surge tank drain line to SD</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F601</u>	<u>3</u>	<u>Cooling water supply line to RHR System drain line to SD</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F602</u>	<u>3</u>	<u>Cooling water supply line to RHR System drain line to HCW</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F603</u>	<u>3</u>	<u>Cooling water return line from RHR Hx drain line to SD</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F604</u>	<u>3</u>	<u>Cooling water return line from RHR Hx drain line to HCW</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F701</u>	<u>6</u>	<u>Pump discharge line pressure instrument line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F702</u>	<u>9</u>	<u>Hx discharge line sample line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F703</u>	<u>3</u>	<u>Cooling water supply line pressure instrument line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F704</u>	<u>3</u>	<u>Cooling water supply line sample valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F705</u>	<u>3</u>	<u>Cooling water supply line elbow tap instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F706</u>	<u>3</u>	<u>Cooling water supply line elbow tap instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F707</u>	<u>3</u>	<u>Cooling water supply line to RHR System FT instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F708</u>	<u>3</u>	<u>Cooling water supply line to RHR System FT instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F709</u>	<u>3</u>	<u>Cooling water return line from RHR Hx sample valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F710</u>	<u>6</u>	<u>Pump suction line PX instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F711</u>	<u>6</u>	<u>Pump suction line pressure instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 1.4.7</u>
<u>F712</u>	<u>3</u>	<u>Surge tank level instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F713</u>	<u>3</u>	<u>Surge tank level instrument line root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F714</u>	<u>3</u>	<u>Surge tank level instrument line root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F717</u>	<u>3</u>	<u>Cooling water line to DG instrument line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F718</u>	<u>3</u>	<u>Return water line from DG instrument line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F719</u>	<u>3</u>	<u>Cooling water line to DG instrument line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F720</u>	<u>3</u>	<u>Return water line from DG instrument line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F721</u>	<u>3</u>	<u>Cooling water supply line to non-essential coolers FT instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>F722</u>	<u>3</u>	<u>Cooling water supply line to non-essential coolers FT instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-1 sh. 2.5.8</u>
<u>P24 HVAC Normal Cooling Water System Valves</u>									
<u>F053</u>	<u>1</u>	<u>HNCW supply line outboard isolation valve (k1) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>9.2-2</u>
<u>F054</u>	<u>1</u>	<u>HNCW supply line inboard isolation check valve (k1) (h1.11)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>L, S</u>	<u>RO, RO</u>	<u>9.2-2</u>
<u>F141</u>	<u>1</u>	<u>HNCW return inboard isolation valve (k1) (k2) (h1.11)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, RO</u>	<u>9.2-2</u>
<u>F142</u>	<u>1</u>	<u>HNCW return outboard isolation valve (k1) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>9.2-2</u>
<u>P25 HVAC Emergency Cooling Water System Valves</u>									
<u>F001</u>	<u>6</u>	<u>Pump discharge line check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>E2</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F002</u>	<u>6</u>	<u>Pump discharge line maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F003</u>	<u>6</u>	<u>Refrigerator outlet line maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F004</u>	<u>2</u>	<u>Maintenance valve at HECW supply to MCR cooler TCV</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 2.3</u>
<u>F005</u>	<u>2</u>	<u>HECW supply to MCR cooler Temperature Control Valve (TCV)</u>	<u>AOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>S</u>	<u>E2</u>	<u>9.2-3 sh. 2.3</u>
<u>F006</u>	<u>2</u>	<u>Maintenance valve at HECW supply to MCR cooler TCV</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 2.3</u>
<u>F007</u>	<u>6</u>	<u>Maintenance valve at HECW supply to MCR cooler</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 2.3</u>
<u>F008</u>	<u>6</u>	<u>Maintenance valve at HECW return from MCR cooler</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 2.3</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F009</u>	<u>6</u>	<u>Pump suction line maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F010</u>	<u>2</u>	<u>TCV bypass at HECW discharge to MCR cooler</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 2.3</u>
<u>F011</u>	<u>3</u>	<u>Pump suction line/discharge line PCV maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F012</u>	<u>3</u>	<u>Pump suction line/discharge line PCV</u>	<u>AOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>S</u>	<u>E2</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F013</u>	<u>3</u>	<u>Pump suction line/discharge line PCV maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F014</u>	<u>3</u>	<u>Pump suction line/discharge line PCV bypass line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F015</u>	<u>3</u>	<u>Maintenance valve at HECW supply to C/B Essential Electrical Equipment Room Cooler TCV</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F016</u>	<u>3</u>	<u>HECW supply to C/B Essential Electrical Equipment Room cooler TCV</u>	<u>AOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>S</u>	<u>E2</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F017</u>	<u>3</u>	<u>Maintenance valve at HECW supply to C/B Essential Electrical Equipment Room Cooler TCV</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F018</u>	<u>6</u>	<u>HECW supply to C/B Essential Electrical Equipment Room cooler maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F019</u>	<u>6</u>	<u>Maintenance valve at HECW return from C/B Essential Electrical Equipment Room Cooler</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F020</u>	<u>3</u>	<u>TCV bypass valve at HECW supply to C/B Essential Electrical Equipment Room cooler</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F021</u>	<u>3</u>	<u>Maintenance valve at HECW supply to DG zone cooler TCV</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F022</u>	<u>3</u>	<u>HECW supply to DG zone cooler TCV</u>	<u>AOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>S</u>	<u>E2</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F023</u>	<u>3</u>	<u>Maintenance valve at HECW supply to DG zone cooler TCV</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F024</u>	<u>6</u>	<u>Maintenance valve at HECW supply to DG zone cooler</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F025</u>	<u>6</u>	<u>Maintenance valve at HECW return from DG zone cooler</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F026</u>	<u>3</u>	<u>TCV bypass valve at HECW supply to DG zone cooler</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F030</u>	<u>3</u>	<u>Chemical addition tank return valve from HECW</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F031</u>	<u>3</u>	<u>Chemical addition tank feed valve to HECW</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F050</u>	<u>2</u>	<u>Make-up Water Purified (MUWP) line to pump suction check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>E2</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F070</u>	<u>6</u>	<u>Pump discharge line drain valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F400</u>	<u>6</u>	<u>Pump drain line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F401</u>	<u>6</u>	<u>Pump bearing cooling water needle valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F402</u>	<u>3</u>	<u>Refrigerator outlet line sample line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F700</u>	<u>6</u>	<u>Pump discharge line pressure instrument line root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F701</u>	<u>6</u>	<u>FE P25-FE003 upstream instrument line root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F702</u>	<u>6</u>	<u>FE P25-FE003 downstream instrument line root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>F703</u>	<u>6</u>	<u>Pump suction pressure instrument line root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F704</u>	<u>6</u>	<u>Pump suction/discharge line Dp instrument line root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-3 sh. 1.2.3</u>
<u>P41 Reactor Service Water System Valves</u>									
<u>F001</u>	<u>6</u>	<u>Pump discharge line check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>E2</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F002</u>	<u>6</u>	<u>Pump discharge line maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F003</u>	<u>9</u>	<u>Service water inlet valve to RCW System heat exchanger</u>	<u>MOV</u>	<u>3</u>	<u>A</u>	<u>A</u>	<u>P, S</u>	<u>2yr, E2</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F004</u>	<u>6</u>	<u>Service water inlet valve to service water strainer</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>P</u>	<u>P</u>	<u>2yr</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F005</u>	<u>9</u>	<u>Service water outlet valve from RCW heat exchanger</u>	<u>MOV</u>	<u>3</u>	<u>A</u>	<u>A</u>	<u>P, S</u>	<u>2yr, E2</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F006</u>	<u>6</u>	<u>Service water strainer blowout valve</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>P</u>	<u>P</u>	<u>2yr</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F007</u>	<u>9</u>	<u>Supply line from Potable Water check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F008</u>	<u>9</u>	<u>Supply line from Potable Water check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F009</u>	<u>9</u>	<u>Supply valve from Potable Water System</u>	<u>AOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, E2</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F010</u>	<u>9</u>	<u>RCW Hx tube side (service water side) relief valve</u>	<u>RV</u>	<u>3</u>	<u>C</u>	<u>P</u>	<u>R</u>	<u>10yr</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F011</u>	<u>9</u>	<u>Bypass line around RCW Hx outlet line outlet valve MOV P41-F005</u>	<u>AOV</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F012</u>	<u>9</u>	<u>Service water sampling valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F013</u>	<u>6</u>	<u>Service water strainer outlet valve</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, E2</u>	<u>9.2-7 sh. 1.2.3</u>



**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F014</u>	<u>3</u>	<u>Common service water strainer outlet valve</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, E2</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F015</u>	<u>3</u>	<u>Discharge line to discharge canal MOV</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>E1, E2</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F101</u>	<u>3</u>	<u>RSW line to HVAC Air Conditioning Condenser Manual Isolation Valves</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F102</u>	<u>3</u>	<u>RSW blowdown line to Main Cooling Reservoir MOV</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F109</u>	<u>3</u>	<u>RSW cold bypass to cooling tower basin MOV</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F110</u>	<u>6</u>	<u>RSW return to cooling water</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F113</u>	<u>1</u>	<u>Makeup water to UHS basin manual Isolation Valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1</u>
<u>F114</u>	<u>1</u>	<u>Makeup water to UHS basin check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>9.2-7 sh. 1</u>
<u>F115</u>	<u>1</u>	<u>Makeup water to UHS basin MOV</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F116</u>	<u>1</u>	<u>Makeup water to UHS basin manual Isolation Valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1</u>
<u>F117</u>	<u>1</u>	<u>Makeup water to UHS basin check valve</u>	<u>CV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>S</u>	<u>3mo</u>	<u>9.2-7 sh. 1</u>
<u>F501</u>	<u>9</u>	<u>RCW Hx shell side drain valve to SWSD</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F502</u>	<u>9</u>	<u>RCW Hx shell side vent valve to SWSD</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F503</u>	<u>9</u>	<u>RCW Hx shell side drain valve to SWSD</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F504</u>	<u>9</u>	<u>RCW Hx shell side vent valve to SWSD</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1.2.3</u>
<u>F701</u>	<u>6</u>	<u>Pump discharge line pressure instrument line</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1.2.3</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F702</u>	<u>3</u>	<u>Service water supply pressure instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1,2,3</u>
<u>F703</u>	<u>6</u>	<u>DP across service water strainer upstream instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1,2,3</u>
<u>F704</u>	<u>6</u>	<u>DP across service water strainer downstream instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1,2,3</u>
<u>F705</u>	<u>9</u>	<u>Service water DP across RCW Hx upstream instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1,2,3</u>
<u>F706</u>	<u>9</u>	<u>Service water DP across RCW Hx downstream instrument root valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>9.2-7 sh. 1,2,3</u>
<u>P51 Service Air System Valves</u>									
<u>F131</u>	<u>1</u>	<u>Outboard isolation manual valve (k1)</u>	<u>MN</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>L</u>	<u>RO</u>	<u>9.3-7 sh. 2</u>
<u>F132</u>	<u>1</u>	<u>Inboard isolation check valve (k1) (h1.11)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>L, S</u>	<u>RO, RO</u>	<u>9.3-7 sh. 2</u>
<u>P52 Instrument Air System Valves</u>									
<u>F276</u>	<u>1</u>	<u>Outboard isolation valve (k1) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>RO, RO, 3mo</u>	<u>9.3-6 sh. 1</u>
<u>F277</u>	<u>1</u>	<u>Inboard isolation check valve (k1) (k2) (h1.11)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>L, S</u>	<u>RO, RO</u>	<u>9.3-6 sh. 1</u>
<u>P54 High Pressure Nitrogen Gas Supply System Valves</u>									
<u>F002</u>	<u>4</u>	<u>Nitrogen bottles N2 supply line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.7-1</u>
<u>F003</u>	<u>2</u>	<u>Nitrogen bottles N2 supply line MOV</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>6.7-1</u>
<u>F004</u>	<u>2</u>	<u>N2 bottle supply line PCV maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.7-1</u>
<u>F005</u>	<u>2</u>	<u>N2 bottle supply line PCV</u>	<u>AOV</u>	<u>3</u>	<u>B</u>	<u>A</u>		<u>E1</u>	<u>6.7-1</u>
<u>F006</u>	<u>2</u>	<u>N2 bottle supply line PCV maintenance valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.7-1</u>
<u>F007</u>	<u>2</u>	<u>Safety grade N2 supply line isolation valve (k4) (k2)</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>P, S</u>	<u>RO, 3mo</u>	<u>6.7-1</u>
<u>F008</u>	<u>2</u>	<u>Safety grade N2 supply line isolation check valve (k4) (h1.11)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>S</u>	<u>RO</u>	<u>6.7-1</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F009</u>	<u>8</u>	<u>Safety grade N2 supply line to SRV</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.7-1</u>
<u>F010</u>	<u>2</u>	<u>Bypass line around the N2 bottle supply line PCV</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.7-1</u>
<u>F011</u>	<u>2</u>	<u>N2 bottle supply line relief valve</u>	<u>RV</u>	<u>3</u>	<u>C</u>	<u>A</u>	<u>R</u>	<u>10yr</u>	<u>6.7-1</u>
<u>F012</u>	<u>2</u>	<u>MOV at safety/non-safety boundary</u>	<u>MOV</u>	<u>3</u>	<u>A</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>6.7-1</u>
<u>F200</u>	<u>1</u>	<u>Non-safety N2 supply line isolation valve</u>	<u>MOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, 3mo</u>	<u>6.7-1</u>
<u>F209</u>	<u>1</u>	<u>Non-safety N2 supply line isolation check valve (k4) (h1.11)</u>	<u>CV</u>	<u>2</u>	<u>A, C</u>	<u>I, A</u>	<u>L, S</u>	<u>RO, RO</u>	<u>6.7-1</u>
<u>P81 Breathing Air System</u>									
<u>F251</u>	<u>1</u>	<u>Outboard isolation manual valve</u>	<u>MN</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>L</u>	<u>RO</u>	<u>9.3-10</u>
<u>F252</u>	<u>1</u>	<u>Inboard isolation manual valve</u>	<u>MN</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>L</u>	<u>RO</u>	<u>9.3-10</u>
<u>T22 Standby Gas Treatment System Valves</u>									
<u>F002</u>	<u>2</u>	<u>Filter train inlet butterfly valve</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>6.5-1 sh. 1</u>
<u>F003</u>	<u>2</u>	<u>Filter train exhaust gravity damper</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>6.5-1 sh. 2,3</u>
<u>F004</u>	<u>2</u>	<u>Filter train exhaust butterfly valve</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>6.5-1 sh. 2,3</u>
<u>F005</u>	<u>2</u>	<u>Cooling fan butterfly valve</u>	<u>MOV</u>	<u>3</u>	<u>B</u>	<u>A</u>	<u>P, S</u>	<u>2yr, 3mo</u>	<u>6.5-1 sh. 2,3</u>
<u>F006</u>	<u>2</u>	<u>Filter train R112 injection line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2,3</u>
<u>F007</u>	<u>2</u>	<u>Filter train DOP injection line valve to pre HEPA filter</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2,3</u>
<u>F008</u>	<u>2</u>	<u>Filter train DOP sampling line valve downstream of pre HEPA</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2,3</u>
<u>F009</u>	<u>2</u>	<u>Filter train DOP sampling line valve downstream of pre HEPA</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2,3</u>
<u>F010</u>	<u>2</u>	<u>Filter train DOP injection line valve downstream of charcoal absorbent</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2,3</u>
<u>F011</u>	<u>2</u>	<u>Filter train DOP sampling line valve downstream of charcoal absorbent</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2,3</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F012</u>	<u>2</u>	<u>Filter train DOP sampling line valve downstream of after HEPA</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F014</u>	<u>2</u>	<u>SGTS sample line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 3</u>
<u>F015</u>	<u>2</u>	<u>PRM discharge to stack valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 3</u>
<u>F500</u>	<u>2</u>	<u>Filter unit vent line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F501</u>	<u>2</u>	<u>Filter unit drain line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F504</u>	<u>2</u>	<u>Filter unit vent line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F505</u>	<u>2</u>	<u>Exhaust fan vent line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F506</u>	<u>2</u>	<u>Filter train vent line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F507</u>	<u>2</u>	<u>Filter train vent line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F508</u>	<u>2</u>	<u>Filter train vent line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F509</u>	<u>2</u>	<u>Filter train vent line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F510</u>	<u>2</u>	<u>Filter train vent line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F511</u>	<u>2</u>	<u>Exhaust stack drain line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F700</u>	<u>2</u>	<u>Filter unit demister dp instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F701</u>	<u>2</u>	<u>Filter unit demister dp instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F705</u>	<u>2</u>	<u>Filter train prefilter dp instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F706</u>	<u>2</u>	<u>Filter train prefilter dp instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F707</u>	<u>2</u>	<u>Filter train preHEPA dp instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F708</u>	<u>2</u>	<u>Filter train preHEPA dp instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F709</u>	<u>2</u>	<u>Filter train charcoal absorber dp instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F710</u>	<u>2</u>	<u>Filter train charcoal absorber dp instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F711</u>	<u>2</u>	<u>Filter train after HEPA dp instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>
<u>F712</u>	<u>2</u>	<u>Filter train after HEPA dp instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 2.3</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F713</u>	<u>2</u>	<u>Filter train exhaust flow instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 1</u>
<u>F714</u>	<u>2</u>	<u>Filter train exhaust flow instrument line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.5-1 sh. 1</u>
<u>T31 Atmospheric Control System Valves</u>									
<u>F001</u>	<u>1</u>	<u>Purge supply line outboard isolation valve (h2.2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, RO</u>	<u>6.2-39 sh. 1</u>
<u>F002</u>	<u>1</u>	<u>Drywell purge line supply inboard isolation valve (h2.2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, RO</u>	<u>6.2-39 sh. 1</u>
<u>F003</u>	<u>1</u>	<u>Wetwell purge supply line inboard isolation valve (h2.2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, RO</u>	<u>6.2-39 sh. 1</u>
<u>F004</u>	<u>1</u>	<u>Drywell purge exhaust line inboard isolation valve (h2.2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, RO</u>	<u>6.2-39 sh. 1</u>
<u>F005</u>	<u>1</u>	<u>Drywell purge exhaust line bypass line valve</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, 3mo</u>	<u>6.2-39 sh. 1</u>
<u>F006</u>	<u>1</u>	<u>Wetwell purge exhaust line inboard isolation valve (h2.2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, RO</u>	<u>6.2-39 sh. 1</u>
<u>F007</u>	<u>1</u>	<u>Wetwell overpressure line valve (h2.2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>L, P, S</u>	<u>2yr, 2yr, RO</u>	<u>6.2-39 sh. 1</u>
<u>F008</u>	<u>1</u>	<u>Containment exhaust line to SGTS (h2.2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, RO</u>	<u>6.2-39 sh. 1</u>
<u>F009</u>	<u>1</u>	<u>Containment exhaust line to R/B HVAC (h2.2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, RO</u>	<u>6.2-39 sh. 1</u>
<u>F010</u>	<u>1</u>	<u>Wetwell overpressure line valve (h2.2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>L, P, S</u>	<u>2yr, 2yr, RO</u>	<u>6.2-39 sh. 1</u>
<u>F011</u>	<u>1</u>	<u>Containment exhaust line to SGTS (h2.2)</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, RO</u>	<u>6.2-39 sh. 1</u>
<u>F025</u>	<u>1</u>	<u>Purge supply line from outboard containment isolation valve</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, 3mo</u>	<u>6.2-39 sh. 1</u>

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F039</u>	<u>1</u>	<u>N2 makeup line from outboard containment isolation valve</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, 3mo</u>	<u>6.2-39 sh. 1</u>
<u>F040</u>	<u>1</u>	<u>N2 makeup line from to drywell inboard isolation valve</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, 3mo</u>	<u>6.2-39 sh. 1</u>
<u>F041</u>	<u>1</u>	<u>N2 makeup line from to wetwell inboard isolation valve</u>	<u>AOV</u>	<u>2</u>	<u>A</u>	<u>I, A</u>	<u>L, P, S</u>	<u>2yr, 2yr, 3mo</u>	<u>6.2-39 sh. 1</u>
<u>F044</u>	<u>8</u>	<u>Drywell/wetwell vacuum breaker valve (k2)</u>	<u>CV</u>	<u>2</u>	<u>C</u>	<u>A</u>	<u>P, R</u>	<u>RO, RO</u>	<u>6.2-39 sh. 2</u>
<u>F050</u>	<u>1</u>	<u>Purge supply line from test line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 1</u>
<u>F051</u>	<u>1</u>	<u>Purge exhaust line test line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 1</u>
<u>F054</u>	<u>1</u>	<u>Makeup line test line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 1</u>
<u>F055</u>	<u>1</u>	<u>Drywell personnel air lock hatch test line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 2</u>
<u>F056</u>	<u>1</u>	<u>Wetwell personnel air lock hatch test line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 2</u>
<u>F057</u>	<u>1</u>	<u>Overpressure protection test line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 1</u>
<u>F058</u>	<u>1</u>	<u>Overpressure protection test line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 1</u>
<u>F059</u>	<u>1</u>	<u>Overpressure protection test line valve</u>	<u>MN</u>	<u>3</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 1</u>
<u>F700</u>	<u>1</u>	<u>FE instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 1</u>
<u>F701</u>	<u>1</u>	<u>FE instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 1</u>
<u>F702</u>	<u>1</u>	<u>FE instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 1</u>
<u>F703</u>	<u>1</u>	<u>FE instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 1</u>
<u>F730</u>	<u>1</u>	<u>Drywell pressure instrument line isolation valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 3</u>
<u>F731</u>	<u>1</u>	<u>Drywell pressure instrument line isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>6.2-39 sh. 3</u>
<u>F732</u>	<u>2</u>	<u>Drywell pressure instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 3</u>
<u>F733</u>	<u>2</u>	<u>Drywell pressure instrument line isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>6.2-39 sh. 3</u>
<u>F734</u>	<u>4</u>	<u>Drywell pressure instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 3</u>
<u>F735</u>	<u>4</u>	<u>Drywell pressure instrument line isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>6.2-39 sh. 3</u>

**Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)**

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
<u>F736</u>	<u>2</u>	<u>Wetwell pressure instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 3</u>
<u>F737</u>	<u>2</u>	<u>Wetwell pressure instrument line isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>6.2-39 sh. 3</u>
<u>F738</u>	<u>4</u>	<u>Suppression pool water level instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 2</u>
<u>F739</u>	<u>4</u>	<u>Suppression pool water level instrument line isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>6.2-39 sh. 2</u>
<u>F740</u>	<u>4</u>	<u>Suppression pool water level instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 2</u>
<u>F741</u>	<u>4</u>	<u>Suppression pool water level instrument line isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>6.2-39 sh. 2</u>
<u>F742</u>	<u>2</u>	<u>Suppression pool water level instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 2</u>
<u>F743</u>	<u>2</u>	<u>Suppression pool water level instrument line isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>6.2-39 sh. 2</u>
<u>F744</u>	<u>2</u>	<u>Suppression pool water level instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 2</u>
<u>F745</u>	<u>2</u>	<u>Suppression pool water level instrument line isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>6.2-39 sh. 2</u>
<u>F800</u>	<u>2</u>	<u>Drywell water level instrument line isolation valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 3</u>
<u>F801</u>	<u>2</u>	<u>Drywell water level instrument line isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>6.2-39 sh. 3</u>
<u>F802</u>	<u>2</u>	<u>Drywell water level instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 3</u>
<u>F803</u>	<u>2</u>	<u>Drywell water level instrument line isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>6.2-39 sh. 3</u>
<u>F804</u>	<u>2</u>	<u>DW/WW differential pressure instrument line valve</u>	<u>MN</u>	<u>2</u>	<u>B</u>	<u>P</u>		<u>E1</u>	<u>6.2-39 sh. 3</u>
<u>F805</u>	<u>2</u>	<u>DW/WW differential pressure instrument isolation valve (k4) (k2)</u>	<u>SOV</u>	<u>2</u>	<u>A</u>	<u>I, P</u>	<u>P</u>	<u>RO</u>	<u>6.2-39 sh. 3</u>
<u>D001</u>	<u>1</u>	<u>Wetwell overpressure rupture disk</u>	<u>RPD</u>	<u>2</u>	<u>D</u>	<u>I, P</u>	<u>Rplc.</u>	<u>5yr</u>	<u>6.2-39 sh. 1</u>
<u>D002</u>	<u>1</u>	<u>Wetwell rupture disk</u>	<u>RPD</u>	<u>3</u>	<u>D</u>	<u>I, P</u>	<u>Rplc.</u>	<u>5yr</u>	<u>6.2-39 sh. 1</u>
<u>T49 Flammability Control System Valves</u>									

Table 3.9S-1 Inservice Testing Program Plan (OM-2004) (Continued)

<u>No.</u>	<u>Qty</u>	<u>Description (h) (k)</u>	<u>Valve Type (l)</u>	<u>Safety Class(a)</u>	<u>Code Cat. (c)</u>	<u>Valve Func. (d)</u>	<u>Test Para (e)</u>	<u>Test Freq (f)</u>	<u>Tier 2 Fig. (g)</u>
F014	2	Blower drain line valve	MN	3	B	P		E1	6.2-40
<u>U41 Heating Ventilating and Air Conditioning System Valves</u>									
F001	2	Secondary containment supply isolation valve	AOV	2	B	A	P, S	2yr, 3mo	9.4-3 sh. 1
F002	2	Secondary containment exhaust isolation valve	AOV	2	B	A	P, S	2yr, 3mo	9.4-3 sh. 1
F003	3	Secondary Containment divisional supply isolation valve	MOV	2	B	A	P, S	2yr, 3mo	9.4-3 sh. 1
F004	3	Secondary Containment divisional exhaust isolation valve	MOV	2	B	A	P, S	2yr, 3mo	9.4-3 sh. 1
F007	4	MCR area HVAC bypass line isolation valve	MOV	2	B	A	P, S	2yr, 3mo	9.4-1 sh. 1.2
F008	4	MCR area HVAC supply isolation valve	MOV	2	B	A	P, S	2yr, 3mo	9.4-1 sh. 1.2
F009	4	MCR area HVAC emergency HVAC supply	MOV	2	B	A	P, S	2yr, 3mo	9.4-1 sh. 1.2
F010	4	MCR area HVAC exhaust isolation valve	MOV	2	B	A	P, S	2yr, 3mo	9.4-1 sh. 1.2
<u>Y52 Oil Storage Transfer System Valves</u>									
F001	6	D/G transfer pump discharge line check valve	CV	3	C	A	S	3mo	9.5-6
F002	3	D/G transfer pump discharge line relief valve	RV	3	C	A	R	10yr	9.5-6
F003	3	D/G transfer pump discharge line ball (plug) valve	MN	3	B	P		E1	9.5-6
F004	3	D/G fuel oil day tank return to storage tank valve	MN	3	B	P		E1	9.5-6
F501	3	D/G transfer pump discharge line drain valve	MN	3	B	P		E1	9.5-6
F502	3	D/G transfer pump discharge line vent valve	MN	3	B	P		E1	9.5-6



Notes:

- (a) 1, 2, or 3—Safety Classification, Subsection 3.2.3.
- (b) Pump test parameters per ASME OM-2004, Table ISTB-3000-1:
  - N - Speed
  - P- Discharge Pressure
  - ΔP - Differential Pressure
  - Q - Flow Rate
  - Vd -Peak-to-peak vibration displacement
  - Vv -Peak vibration velocity
- (c) A, B, C or D—Valve category per ASME OM-2004, ISTC-1300.
- (d) Valve function:
  - I - Primary containment isolation, Subsection 6.2.4
  - A or P - Active or passive per ASME OM-2004, ISTA-2000
- (e) (e) Valve test parameters per ASME Code in (c) above:
  - L - Leakage rate (ISTC-3600)
  - P - Local position verification (ISTC-3700)
  - R - Relief valve test including visual examination, set pressure and seat tightness testing (Mandatory Appendix I)
  - S - Stroke exercise Category A or B (ISTC-3510 and -3521)
  - Category C (ISTC-3510, -3522, and -5221)
  - X - Explosive charge test (ISTC-5260)
- (f) Pump or valve test exclusions, alternatives and frequency per ASME code in (b) or (c) above or Appendix I:
  - CS - Cold shutdown (ISTC-3521 (c))
  - RO - Refueling outage and/or no case greater than two years. (ISTC 3521 (e))
  - E1 - Used for operating convenience (i.e., passive vent, drain, instrument test, maintenance valves, or a system control valve). Tests are not required (ISTC-1200).
  - E2 - In regular use. Test frequency is not required provided the test parameters are analyzed and recorded at an operation interval not exceeding three months. (ISTC-3550)
  - E3 - Not Used.
  - E10 - In regular use. Test frequency is not required provided the test parameters are recorded at least once every three months of operation (ISTB-3410)
  - E11 Not Used.

- (g) Piping and instrument symbols and abbreviations are defined in Figure 1.7-1. Figure page numbers are shown in parenthesis.
- (h) Reasons for code defined testing exceptions (ISTC-3521 and -3522).
- (h1.1) Per code the S (stroke) testing is to be performed every 3 months. High flow rate through the valve is required to ensure proper plant operation. The flow cannot be reduced or disrupted since it will impact plant operation. Therefore to fully stroke this valve, the test is performed during refueling outages to avoid disruption in normal power operations.
- (h1.2) Per code the S (stroke) testing is to be performed every 3 months. This test cannot be performed during power operations because RWCU is always operational, disrupting it will impact plant operation. Therefore this test is scheduled to be performed during refueling outages.
- (h1.3) Per code the S (stroke) testing is to be performed every 3 months. A partial stroke test during initial startup can be performed. This valve can only be fully stroked during refueling outage. Therefore, position test and full stroke test is scheduled to be performed during refueling outages, with partial stroke testing can be done every three months.
- (h1.4) Per code the S (stroke) testing is to be performed every 3 months. Performing stroke test at full plant power would impact power operations and add significant heat to the primary containment. Therefore, position test and full stroke test is scheduled to be performed during refueling outages.
- (h1.5) Per code the S (stroke) testing is to be performed every 3 months. Stroking this valve can result in depressurizing of the RPV and impact power operation. Therefore, position and stroke test is to be performed during refueling outage.
- (h1.6) Per code the S (stroke) testing is to be performed every 3 months. Performing this test at full plant power is not possible because this valve is in drywell area and is inaccessible. Therefore, the R (relief valve test) and stroke test is to be performed during refueling outage.
- (h1.7) Per code the S (stroke) testing is to be performed every 3 months. Performing this test at full plant power is not possible because this valve is inaccessible. Therefore, the stroke test is to be performed during refueling outage.
- (h1.8) Relief valve test including visual examination, set pressure and seat tightnesstesting. These tests can only be performed during refueling outages due to inaccessibility to the valve during power operation.
- (h1.9) (h1.9) Per code the S (stroke) testing is to be performed every 3 months. Performing stroke test on this valve during normal power operation might cause depressurization and will impact plant operation. Therefore to fully stroke this valve, the test is to be performed during refueling outages to avoid disruption in normal power operations.
- (h1.10) Per code the S (stroke) testing is to be performed every 3 months. Testing this valve while the plant is operating would cause cooling flow to cease to the Reactor Internal Pump (RIP) heat exchangers. The RIP equipment requires cooling water to the heat exchanger (HX). Stopping the cooling flow would require the RIPs to be stopped. Therefore, stroke test is to be performed during refueling outages to avoid disruption in normal power operations.
- (h1.11) Per code the S (stroke) testing is to be performed every 3 months. Performing this test at full plant power is not possible because this valve is inaccessible due to inerted containment. Therefore, the stroke test is to be performed during refueling outage.
- (h2.1) Avoids valve damage and impacts on power operations. The R (relief valve) test meets OM Code Mandatory Appendix I at 5 years. The S (stroke) test is normally performed every 3 months per code. This test is typically performed at low power during initial startup.

- Performing this test at full plant power would impact power operations and add significant heat to the primary containment.
- (h2.2) Avoids valve damage and impacts on power operations. These isolation valves are required to maintain inert primary containment vessel atmosphere integrity during all plant modes of operation except during plant shutdown for refueling. Therefore, these valves shall be stroke tested during refueling outages.
- (h3.1) Avoids impacts on power operations. The S (stroke) test is normally performed every 3 months per code. However this test cannot be done while the plant is in power operations since stroking the valve during operation would require reducing feedwater flow, which places an undesirable transient on the plant. Therefore to be able to fully stroke this valve, the test is done during refueling outages to avoid impact on power operations.
- (h3.2) Avoids impacts on power operations. Per the OM 2004 code, the stroke test is normally performed every 3 months. Performing IST on this valve during operations would require isolation of critical instrumentation required for reactor operations. This excess flow check valve has no external means of repositioning the valve. Flow must be induced to close the valve and a path to the secondary containment must be opened to induce that flow. Therefore due to the impact on power operations, the Stroke test has been changed to refueling outages.
- (h3.3) Avoids impacts on power operations. This excess flow check valve has no external means of repositioning the valve. Flow must be induced to close the valve and a path to the secondary containment must be opened to induce that flow. Therefore due to the impact on power operations, the Stroke test has been changed to refueling outages.
- (h3.4) Avoids impacts on power operations. Due to the common header configuration to test one check valve F008 (CHKV-0006), Recirculation Motor Purge (RMP) subsystem would need to be isolated. Operation without RMP flow for extended period of time would require shutting down the Recirculation Internal Pump (RIP). Operation of the plant at power requires the RIPs to be in operation therefore due to the impact on power operations, the Stroke test has been changed to refueling outages.
- (h3.5) Avoids impacts on power operations. Performing IST on this valve during operations would require isolation of instrumentation that controls the RCIC system. This excess flow check valve has no external means of repositioning the valve. Flow must be induced to close the valve and a path to the secondary containment must be opened to induce that flow. Therefore due to the impact on power operations, the Stroke test has been changed to refueling outages.
- (h3.6) Avoids impacts on power operations. Performing IST on this valve during operations would require isolation of instrumentation that controls the RWCU system. This excess flow check valve has no external means of repositioning the valve. Flow must be induced to close the valve and a path to the secondary containment must be opened to induce that flow. Therefore due to the impact on power operations, the Stroke test has been changed to refueling outages.
- (h3.7) Avoids impacts on power operations. Testing this valve while the plant is operating would cause cooling flow to cease to the RIP heat exchangers. The RIP equipment requires cooling water to the HX. Stopping the cooling flow would require the RIPs to be stopped. Reactor power would be impacted due to stopping the RIPs. Therefore due to the impact on power operations, the Stroke test frequency has been changed to cold shutdown.
- (h4) A temporary crosstie is necessary to carry the ongoing cooling loads. A permanent crosstie would violate divisional separation.
- (h5) Avoids cold/hot water injection to RPV during power operations.

- (h6) Maintain pressure isolation during normal operation.
- (h7) Inventory available only during refueling outage.
- (h8) Not Used
- (h9) Not Used
- (i) Summary justification for code exemption request (ISTB-5120, -5220, and -5320).
  - (i1) The piping is maintained full by a small fraction of the pump's flow capacity. These pumps may be a constant speed centrifugal type with a cooling by-pass loop. Normal operation will be near minimum flow in the flat or constant region of the pressure/flow performance curve. Therefore, a flow measurement would not be useful. The pumps will be designed and analyzed to withstand low flow operation without significant degradation.
  - (j) Group A or Group B—Pump category per ASME OM-2004, ISTB-1300
    - Group A – pumps that are operated continuously or routinely during normal operation, cold shutdown, or refueling operations.
    - Group B - pumps in standby systems that are not operated routinely except for testing.
  - (k) Test/frequency bases:
    - (k1) L (leakage): Per ISTC-3620 and Table 6.2-7, 10CFR50 Appendix J, Type C tests Section III.D.3 states "tests shall be performed during each reactor shutdown for refueling but in no case at intervals greater than 2 years".
    - (k2) P (position): Per ISTC-3700 the test frequency is 2 years.
    - (k3) L (leakage): Per ISTC-3630, for other than Containment Isolation valves, shall be conducted at least once every 2 years is specified.
    - (k4) (k4) Appendix J Type C Leak Test not required as noted in Table 6.2-7.
  - (l) Valve type:
    - AOV: Air Operated Valve
    - CV: Check Valve
    - EXP: Explosive Valve
    - MN: Manual Valve
    - MOV: Motor Operated Valve
    - RPD: Rupture Disk
    - RV: Relief Valve
    - SOV: Solenoid Operated Valve
    - VB: Vacuum Breaker