

ATTACHMENT 2

**SSES Technical Specification 3/4.6.3
Primary Containment Isolation Valves
Unit 1 & 2 Mark-up**

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TABLE 3.6.3-1 (Continued)
PRIMARY CONTAINMENT ISOLATION VALVES

<u>VALVE FUNCTION AND NUMBER</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>	<u>ISOLATION SIGNAL(s)^(a)</u>
<u>Automatic Isolation Valves (Continued)</u>		
<u>Containment Atmosphere Sample</u>		
SV-15734 A,B	N/A	B,Y
SV-15736 A	N/A	B,Y
SV-15736 B	N/A	B,Y
SV-15740 A,B	N/A	B,Y
SV-15742 A,B	N/A	B,Y
SV-15750 A,B	N/A	B,Y
SV-15752 A,B	N/A	B,Y
SV-15774 A,B	N/A	B,Y
SV-15776 A	N/A	B,Y
SV-15776 B	N/A	B,Y
SV-15780 A,B	N/A	B,Y
SV-15782 A,B	N/A	B,Y
<u>Nitrogen Makeup</u>		
SV-15737	N/A	B,Y,R
SV-15738	N/A	B,Y,R
SV-15767	N/A	B,Y,R
SV-15789	N/A	B,Y,R
<u>Reactor Coolant Sample</u>		
HV-143F019	2	B,C
HV-143F020	2	B,C
<u>Liquid Radwaste</u>		
HV-16108 A1,A2	15	B,Z
HV-16116 A1,A2	15	B,Z
<u>RHR - Suppression Pool</u>		
<u>Cooling/Spray^(c)</u>		
HV-151F028 A,B	90	X,Z
<u>CS Test^{(a)(b)(c)}</u>		
HV-152F015 A,B	60	X,Z
<u>HPCI Suction^{(s)(b)(c)}</u>		
HV-155F042	90	L, LB

TABLE 3.6.3-1 (Continued)
PRIMARY CONTAINMENT ISOLATION VALVES

VALVE FUNCTION AND NUMBER

Manual Isolation Valves (Continued)

RCIC Suction ^{(a)(b)(c)}

HV-149F031

RCIC Turbine Exhaust ^(b)

HV-149F059

RCIC Vacuum Pump Discharge ^(b)

HV-149F060

HPCI Injection

HV-155F006
1-55-038

RHR - Shutdown Cooling Return/
LPCI Injection

HV-151F015 A,B

RHR - Suppression Pool Suction ^{(a)(b)(c)}

HV-151F004 A,B,C,D

RHR Heat Exchanger Vent ^(c)

HV-151F103 A,B

CS Injection

HV-152F005 A,B
HV-152F037 A,B

CS Suction ^{(a)(b)(c)}

HV-152F001 A,B

Containment Instrument Gas

SV-12654 A,B

TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES

VALVE FUNCTION AND NUMBER

Other Valves (Continued)

RHR-Minimum Recirculation Flow ^(a) ^(b) ^(c)

HV-151F007 A,B

RHR - Relief Valve Discharge ^(c)

PSV-151F055 A,B

PSV-15106 A,B

PSV-151F097

CS Injection

HV-152F006 A,B

CS Minimum Recirculation Flow ^(a) ^(b) ^(c)

HV-152F031 A,B

Containment Instrument Gas

1-26-072

1-26-074

1-26-152

1-26-154

1-26-164

Recirculation Pump Seal Water

143F013 A,B

XV-143F017 A,B

TIP Shear Valves ^(d)

CSI-J004 A,B,C,D,E

SLCS ^(b)

148F007

HPCI Turbine Exhaust ^(b)

155F049

TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES

VALVE FUNCTION AND NUMBER

Other Valves (Continued)

HPCI Minimum Recirculation Flow (s)(b)(c)

HV-155F012
~~HV-155F046~~

RCIC Turbine Exhaust (b)

149F040

RCIC Minimum Recirculation Flow (s)(b)(c)

FV-149F019
~~HV-149F021~~

RCIC Vacuum Pump Discharge (b)

149F028

d. Excess Flow Check Valves

HPCI

XV-155F024 A,B,C,D

Core Spray

XV-152F018 A,B

RHR

XV-15109 A,B,C,D

RCIC

XV-149F044 A,B,C,D

RWCU

XV-14411 A,B,C,D
XV-144F046

TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES
NOTATION

- (a) See Specification 3.3.2, Table 3.3.2-1, for isolation signal(s) that operates each automatic isolation valve. All power operated isolation valves may be opened or closed remote-manually.
- (b) Isolation barrier remains water filled or a water seal remains in the line post-LOCA. Isolation valve is tested with water. Isolation valve leakage is not included in 0.60 La total Type B and C tests.
- (c) Redundant isolation boundary for this valve is provided by the closed system whose integrity is verified by Type A test.
- (d) Automatic isolation signal causes TIP to retract; ball valve closes when probe is fully retracted.
- (e) Power assisted check valve.
- (f) Solenoid valves not capable of being opened due to the absence of permanently installed electrical power.
- (g) Containment Isolation Valve(s) are not Type 'c' tested. Containment by-pass leakage is prevented since the line terminates below the minimum water level in the suppression chamber and the system is a closed system outside Primary Containment. Refer to Specification 4.0.5. Exemption to Appendix "J" of 10 CFR 50.

TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES

<u>VALVE FUNCTION AND NUMBER</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>	<u>ISOLATION SIGNAL(S)^(a)</u>
<u>Automatic Isolation Valves (Continued)</u>		
<u>Containment Atmosphere Sample</u>		
SV-25734 A,B	N/A	B,Y
SV-25736 A	N/A	B,Y
SV-25736 B	N/A	B,Y
SV-25740 A,B	N/A	B,Y
SV-25742 A,B	N/A	B,Y
SV-25750 A,B	N/A	B,Y
SV-25752 A,B	N/A	B,Y
SV-25774 A,B	N/A	B,Y
SV-25776 A	N/A	B,Y
SV-25776 B	N/A	B,Y
SV-25780 A,B	N/A	B,Y
SV-25782 A,B	N/A	B,Y
<u>Nitrogen Makeup</u>		
SV-25737	N/A	B,Y,R
SV-25738	N/A	B,Y,R
SV-25767	N/A	B,Y,R
SV-25789	N/A	B,Y,R
<u>Reactor Coolant Sample</u>		
HV-243F019	2	B,C
HV-243F020	2	B,C
<u>Liquid Radwaste</u>		
HV-26108 A1,A2	15	B,Z
HV-26116 A1,A2	15	B,Z
<u>RHR - Suppression Pool</u>		
<u>Cooling/Spray^(c)</u>		
HV-251F028 A,B	90	X,Z
<u>CS Test^{(s)(b)(c)}</u>		
HV-252F015 A,B	60	X,Z
<u>MPCI Suction^{(s)(b)(c)}</u>		
HV-255F042	90	L,LB

TABLE 3.6.3-1 (Continued).

PRIMARY CONTAINMENT ISOLATION VALVES

VALVE FUNCTION AND NUMBER

Manual Isolation Valves (Continued)

RCIC Suction ^(g) (b)(c)

HV-249F031

RCIC Turbine Exhaust ^(b)

HV-249F059

RCIC Vacuum Pump Discharge ^(b)

HV-249F060

HPCI Injection

HV-255F006

2-55-038

RHR - Shutdown Cooling Return/

LPCI Injection

HV-251F015 A,B

RHR - Suppression Pool Suction ^(g) (b)(c)

HV-251F004 A,B,C,D

RHR Heat Exchanger Vent ^(c)

HV-251F103 A,B

CS Injection

HV-252F005 A,B

HV-252F037 A,B

CS Suction ^(g) (b)(c)

HV-252F001 A,B

Containment Instrument Gas

SV-22654 A,B

TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES

VALVE FUNCTION AND NUMBER

Manual Isolation Valves (Continued)

SLCS^(b)

HV-248F006

Demineralized Water

2-41-017

2-41-018

ILRT

2-57-199

2-57-200

HPCI Turbine Exhaust^(b)

HV-255F066

RHR-Shutdown Cooling Return/
LPCI Injection

HV-251F122 A,B

RHR-Suppression Pool
Cooling/Spray^(c)

HV-251F011 A,B

c. Other Valves

Feedwater

241F010 A,B

RHR - Shutdown Cooling Suction^(b)

PSV-251F126

RHR - Shutdown Cooling Return/
LPCI Injection

HV-251F050 A,B

RHR-Minimum Recirculation Flow^{(g)(b)(c)}

HV-251F007 A,B

TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES

VALVE FUNCTION AND NUMBER

Other Valves (Continued)

RHR - Relief Valve Discharge ^(c)

PSV-251F055 A,B
PSV-25106 A,B
PSV-251F097

CS Injection

HV-252F006 A,B

CS Minimum Recirculation Flow ^(g) ^(b) ^(c)

HV-252F031 A,B

Containment Instrument Gas

2-26-164
2-26-072
2-26-074
2-26-152
2-26-154

Recirculation Pump Seal Water

243F013 A,B
XV-243F017 A,B

TIP SHEAR VALVES ^(d)

CS1-J004 A,B,C,D,E

SLCS ^(b)

248F007

HPCI Turbine Exhaust ^(b)

255F049

HPCI Minimum Recirculation Flow ^(g) ^(b) ^(c)

HV-255F012
~~HV-255F046~~

TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES

VALVE FUNCTION AND NUMBER

Other Valves (Continued)

RCIC Turbine Exhaust^(b)

249F040

RCIC Minimum Recirculation Flow^(g)^(b)^(c)

FV-249F019

~~FV-249F021~~

RCIC Vacuum Pump Discharge^(b)

249F028

d. Excess Flow Check Valves

HPCI

XV-255F024 A,B,C,D

Core Spray

XV-252F018 A,B

RHR

XV-25109 A,B,C,D

RCIC

XV-249F044 A,B,C,D

RWCU

XV-24411 A,B,C,D

XV-244F046

TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES
NOTATION

- (a) See Specification 3.3.2, Table 3.3.2-1, for isolation signal(s) that operates each automatic isolation valve. All power-operated isolation valves may be opened or closed remote-manually.
 - (b) Isolation barrier remains water filled or a water seal remains in the line post-LOCA. Isolation valve is tested with water. Isolation valve leakage is not included in 0.60 L_a total Type B and C tests.
 - (c) Redundant isolation boundary for this valve is provided by the closed system whose integrity is verified by Type A test.
 - (d) Automatic isolation signal causes TIP to retract; ball valve closes when probe is fully retracted.
 - (e) Power assisted check valve.
 - (f) Solenoid valves not capable of being opened due to the absence of permanently installed electrical power.
- (g) Containment Isolation Valves are not Type C tested. Containment by-pass leakage is prevented since the line terminator below the minimum water level in the suppression chamber and the system is a closed system outside Primary Containment. Refer to Specification 4.0.5. Exemption to Appendix "J" of 10 CFR 50.