

ATTACHMENT 2
LICENSE AMENDMENT APPLICATION
ELIMINATION OF 10CFR50 APPENDIX J, TYPE C TEST
REQUIREMENTS FOR LINES PENETRATING CONTAINMENT
WHICH TERMINATE BELOW THE TORUS WATER LEVEL
HOPE CREEK GENERATING STATION
FACILITY OPERATING LICENSE NPF-57
DOCKET NO. 50-354

TECHNICAL SPECIFICATION PAGES WITH PEN AND INK CHANGES

The following Technical Specification pages for
Facility Operating License No. NPF-57 are affected by
this License Amendment Request:

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TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES

<u>VALVE FUNCTION AND NUMBER</u>	<u>PENETRATION NUMBER</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>	<u>NOTE(S)</u>	<u>P&ID</u>
(c) MSIV Sealing System Isolation Valves				
				M-72-1
Outside:				
Line A HV-5834A (KP-V010)	P1A	45	1	
Line B HV-5835A (KP-V009)	P1B	45	1	
Line C HV-5836A (KP-V008)	P1C	45	1	
Line D HV-5837A (KP-V007)	P1D	45	1	
2. Group 2 - Reactor Recirculation Water Sample System				
(a) Reactor Recirculation Water Sample Line Isolation Valves				
				M-43-1
Inside: BB-SV-4310	P17	15	3	
Outside: BB-SV-4311	P17	15	3	
3. Group 3 - Residual Heat Removal (RHR) System				
(a) RHR Suppression Pool Cooling Water & System Test Isolation Valves				
				M-51-1
Outside:				
Loop A: HV-F024A (BC-V124)	P212B	180	11 A	
HV-F010A (BC-V125)	P212B	180	11 A	
Outside:				
Loop B: HV-F024B (BC-V028)	P212A	180	11 A	
HV-F010B (BC-V027)	P212A	180	11 A	
(b) RHR to Suppression Chamber Spray Header Isolation Valves				
				M-51-1
Outside:				
Loop A: HV-F027A (BC-V112)	P214B	75	3	
Loop B: HV-F027B (BC-V015)	P214A	75	3	

TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES

<u>VALVE FUNCTION AND NUMBER</u>	<u>PENETRATION NUMBER</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>	<u>NOTE(S)</u>	<u>P&ID</u>
(c) RHR Shutdown Cooling Suction Isolation Valves				M-51-1
Inside: HV-F009 (BC-V071)	P3	45	3	
Outside: HV-F008 (BC-V164)	P3	45	3	
(d) RHR Head Spray Isolation Valves				M-51-1
Inside: HV-F022 (BC-V021)	P10	60	3	
Outside: HV-F023 (BC-V020)	P10	60	3	
(e) RHR Shutdown Cooling Return Isolation Valves				M-51-1
Outside:				
Loop A: HV-F015A (BC-V110)	P4B	45	3	
Loop B: HV-F015B (BC-V013)	P4A	45	3	
4. Group 4 - Core Spray System				
Outside:				
(a) Core Spray Test to Suppression Pool Isolation Valves				M-52-1
Loop A: HV-F015A (BE-V025)	P217B	80	11A	
Loop B: HV-F015B (BE-V026)	P217A	80	11A	
5. Group 5 - High Pressure Coolant Injection (HPCI) System				
(a) HPCI Turbine Steam Supply Isolation Valves				M-55-1
Inside: HV-F002 (FD-V001)	P7	NA	3	
HV-F100 (FD-V051)	P7	NA	3	
Outside: HV-F003 (FD-V002)	P7	NA	3	
(b) HPCI Pump Suction Isolation Valve				M-55-1
Outside:				
HV-F042 (BJ-V009)	P202	NA	11A	

TABLE 3.6.3-1 (Continued)
PRIMARY CONTAINMENT ISOLATION VALVES

VALVE FUNCTION AND NUMBER	PENETRATION NUMBER	MAXIMUM ISOLATION TIME (Seconds)	NOTE(S)	P&ID
(b) DLD-RMS Return Isolation Valves				M-25-1
Outside:				
HV-4957 (SK-V008)	J5A	45	3	
HV-4981 (SK-V009)	J5A	45	3	
B. Remote Manual Isolation Valves				
1. Group 21 - Feedwater System				
(a) Feedwater Isolation Valves				M-41-1
Outside Check Valves				
HV-F032B (AE-V001)	P2A	NA	2	
HV-F032A (AE-V005)	P2B	NA	2	
(b) Reactor Water Cleanup System Return				
Outside:				
HV-F039 (AE-V021)	P2A&B	NA	2	M-44-1
2. Group 22 - High Pressure Coolant Injection (HPCI) System				
(a) Core Spray Discharge Valve				
Outside:				
HV-F006 (BJ-V001)	P5B	NA	3	M-55-1
(b) Turbine Exhaust Valve				
Outside:				
HV-F071 (FD-V006)	P201	NA	4	M-55-1
(c) HPCI Minimum Return Line Valve				
Outside:				
HV-F012 (BJ-V016)	P203	NA	11A	M-55-1
(d) Feedwater Line Discharge Valve				
Outside:				
HV-8278 (BJ-V059)	P2B	NA	2	M-55-1
3. Group 23 - Reactor Core Isolation Cooling (RCIC) System				
(a) RCIC Turbine Exhaust Valve				
Outside:				
HV-F059 (FC-V005)	P207	NA	4	M-49-1

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TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES

VALVE FUNCTION AND NUMBER	PENETRATION NUMBER	MAXIMUM ISOLATION TIME (Seconds)	NOTE(S)	P&ID
Outside:				
(b) RCIC Pump Suction Isolation Valve HV-F031 (BD-V003)	P208	NA	11 A	M-49-1
Outside:				
(c) RCIC Minimum Return Line Isolation Valve SV-F019	P209	NA	11 A	M-49-1
Outside:				
(d) RCIC Vacuum Pump Discharge HV-F060 (FC-V011)	P210	NA	4	M-49-1
(e) Feedwater Line Discharge Valve Outside:				
HV-F013 (BD-V005)	P2A	NA	2	M-49-1
4. Group 25 - Core Spray System				
(a) Core Spray injection Valves				M-52-1
Outside:				
Loop A&C HV-F005A (BE-V007)	P5B	NA	3	
Loop B&D HV-F005B (BE-V003)	P5A	NA	3	
(b) Core Spray Suppression Pool Suction Valves				M-52-1
Outside:				
Loop A HV-F001A (BE-V017)	P216D	NA	11 A	
Loop B HV-F001B (BE-V019)	P216A	NA	11 A	
Loop C HV-F001C (BE-V018)	P216C	NA	11 A	
Loop D HV-F001D (BE-V020)	P216B	NA	11 A	
(c) Core Spray Minimum Flow Valves				M-52-1
Outside:				
Loop A&C HV-F031A (BE-V035)	P217B	NA	11 A	
Loop B&D HV-F031B (BE-V036)	P217A	NA	11 A	
(d) Core Spray Injection Line Bypass Valves				M-52-1
Inside:				
HV-F039A (BE-V071)	P5B	NA	3	
HV-F039B (BE-V072)	P5A	NA	3	

TABLE 3.6.3-1 (Continued)
PRIMARY CONTAINMENT ISOLATION VALVES

VALVE FUNCTION AND NUMBER	PENETRATION NUMBER	MAXIMUM ISOLATION TIME (Seconds)	NOTE(S)	P&ID
5. Group 26 - Residual Heat Removal System				
(a) Low Pressure Coolant Injection Valves				M-51-1
Outside:				
Loop A: HV-F017A (BC-V113)	P6C	NA	3	
Loop B: HV-F017B (BC-V016)	P6B	NA	3	
Loop C: HV-F017C (BC-V101)	P6D	NA	3	
Loop D: HV-F017D (BC-V004)	P6A	NA	3	
(b) RHR Containment Spray				M-51-1
Outside:				
Loop A: HV-F021A (BC-V116)	P24B	NA	3	
HV-F016A (BC-V115)	P24B	NA	3	
Loop B: HV-F021B (BC-V019)	P24A	NA	3	
HV-F016B (BC-V018)	P24A	NA	3	
(c) RHR Suppression Pool Suction				M-51-1
Outside:				
Loop A: HV-F004A (BC-V103)	P211C	NA	11 A	
Loop B: HV-F004B (BC-V006)	P211B	NA	11 A	
Loop C: HV-F004C (BC-V098)	P211D	NA	11 A	
Loop D: HV-F004D (BC-V001)	P211A	NA	11 A	
(d) RHR Minimum Flow Isolation Valves				M-51-1
Outside:				
Loop A: HV-F007A (BC-V128)	P212B	NA	11 A	
Loop B: HV-F007B (BC-V031)	P212A	NA	11 A	
Loop C: HV-F007C (BC-V131)	P212B	NA	11 A	
Loop D: HV-F007D (BC-V034)	P212A	NA	11 A	

TABLE 3.6.3-1 (Continued)

PRIMARY CONTAINMENT ISOLATION VALVES

<u>VALVE FUNCTION AND NUMBER</u>		<u>PENETRATION NUMBER</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>	<u>NOTE(S)</u>	<u>P&ID</u>
5.	Group 35 - Breathing Air System				M-15-1
	Inside KG-V016	P31	NA	3	
	Outside KG-V034	P31	NA	3	
6.	Group 36 - TIP Purge System				
	Inside:				
	Check Valve: SE-V006	P34F	NA	3	M-59-1
7.	Group 37 - HPCI System				
	Outside:				
	HPCI Turbine Exhaust: FD-V004	P201	NA	4	M-55-1
8.	Group 38 - RCIC System				
	Outside:				
	RCIC Turbine Exhaust: FC-V003	P207	NA	4	M-49-1
	Vacuum Pump Discharge: FC-V010	P210	NA	4	M-49-1
9.	Group 39 - RHR System				
(a)	Thermal Relief Valves				M-51-1
	Outside:				
	Loop A: BC-PSV-F025A	P212B	NA	5	
	Loop B: BC-PSV-F025B	P212A	NA	5	
	Loop C: BC-PSV-F025C	P212B	NA	5	
	Loop D: BC-PSV-F025D	P212A	NA	5	
(b)	Jockey Pump Discharge Check Valves				M-51-1
	Outside:				
	Loops A & C: (BC-V206)	P212B	NA	11 X	
	Loops B & D: (BC-V260)	P212A	NA	11 X	
(c)	RHR Heat Exchanger Thermal Relief Valves				M-51-1
	Outside:				
	BC-PSV-4431A	P213B	NA	5	
	BC-PSV-4431B	P213A	NA	5	

TABLE 3.6.3-1 (Continued)
PRIMARY CONTAINMENT ISOLATION VALVES

VALVE FUNCTION AND NUMBER	PENETRATION NUMBER	MAXIMUM ISOLATION TIME (Seconds)	NOTE(S)	P&ID
(d) RHR Shutdown Cooling Suction Thermal Relief Valve Inside: BC-PSV-4425	P3	NA	3	M-51-1
(e) LPCI Injection Line Check Valves Inside: HV-F041A (BC-V114) HV-F041B (BC-V017) HV-F041C (BC-V102) HV-F041D (BC-V005)	P6C P6B P6D P6A	NA NA NA NA	3 3 3 3	M-51-1
(f) Shutdown Cooling Return Line Check Valves Inside: HV-F050A (BC-V111) HV-F050B (BC-V014)	P4B P4A	NA NA	3 3	M-51-1
(g) RHR Suppression Pool Return Valves Outside: HV-F011A (BC-V126) HV-F011B (BC-V026)	P212B P212A	NA NA	11 A 11 A	M-51-1
10. Group 40 - Core Spray System				
(a) Thermal Relief Valves Outside: Loop A&C: BE-PSV-F012A Loop B&D: BE-PSV-F012B	P217B P217A	NA NA	5 5	M-52-1
(b) Core Spray Injection Line Check Valves Inside: HV-F006A (BE-V006) HV-F006B (BE-V002)	P5B P5A	NA NA	3 3	M-52-1
11. Group 41 - Drywell Pressure Instrumentation Outside: BB-V563 BB-V564 BB-V565 BB-V566	J6A J8D J7A J10D	NA NA NA NA	6 6 6 6	M-42-1

TABLE 3.6.3-1

PRIMARY CONTAINMENT ISOLATION VALVES

NOTES

NOTATION

1. Main Steam Isolation Valves are sealed with a seal system that maintains a positive pressure of 5 psig above reactor pressure. Leakage is in-leakage and is not added to 0.60 La allowable leakage.*
2. Containment Isolation Valves are sealed with a water seal from the HPCI and/or RCIC system to form the long-term seal boundary of the feedwater lines. The valves are tested with water at 1.10 Pa, 52.9 psig, to ensure the seal boundary will prevent by-pass leakage. Seal boundary liquid leakage will be limited to 10 gpm.
3. Containment Isolation Valve, Type C gas test at Pa, 48.1 psig. Leakage added to 0.60La allowable leakage.
4. Containment Isolation Valve, Type C water test at 1.10 Pa, 52.9 psig ΔP . | Leakage added to 10 gpm allowable leakage.
5. Containment boundary is discharge nozzle of relief valve, leakage tested during Type A test.*
6. Drywell and suppression chamber pressure and level instrument root valves and excess flow check valves, leakage tested during Type A.*
7. Explosive shear valves (SE-V021 through SE-V025) not Type C tested.*
8. Surveillances to be performed per Specification 3.6.1.8.
9. All valve I.D. numbers are preceded by a numeral 1 which represents an Unit 1 valve.
10. The reactor vessel head seal leak detection line (penetration J5C) excess flow check valve (BB-XV-3649) is not subject to OPERABILITY testing. This valve will not be exposed to primary system pressure except under the unlikely conditions of a seal failure where it could be partially pressurized to reactor pressure. Any leakage path is restricted at the source; therefore, this valve need not be OPERABILITY tested.

11. See attached insert.

*Exemption to Appendix J of 10 CFR Part 50.

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11. 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.