		FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	CONDITIONS REFERENCED FROM REQUIRED ACTION C.1	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE	
5.	Re (R'	actor Water Cleanup WCU) System Isolation						
	a.	Main Steam Valve Vault Area Temperature - High	1,2,3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.5 SR 3.3.6.1.6	≤ 188°F	
	b.	Pipe Trench Area Temperature - High	1,2,3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.4 SR 3.3.6.1.6	≤135°F	
	C.	Pump Room A Area Temperature - High	1.2,3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.4 SR 3.3.6.1.6	≤152°F	
	d.	Pump Room B Area Temperature - High	1,2,3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.4 SR 3.3.6.1.6	≤152°F	
	e.	Heat Exchanger Room Area (West Wall) Temperature - High	1,2,3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.4 SR 3.3.6.1.6	≤ 143°F	
	f.	Heat Exchanger Room Area (East Wall) Temperature - High	1,2,3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.4 SR 3.3.6.1.6	$\leq 170^{\circ} \mathrm{F}$	
	g.	SLC System Initiation	1,2	1(a)	Н	SR 3.3.6.1.6	NA	
	h.	Reactor Vessel Water Level - Low, Level 3	1.2.3	2	F	SR 3.3.6.1.1 SR 3.3.6.1.2 SR 3.3.6.1.5 SR 3.3.6.1.6	≥ 528 inches above vessel zero	
6.	Sh Isc	Shutdown Cooling System Isolation						
	a.	Reactor Steam Dome Pressure - High	1,2,3	1	F	SR 3.3.6.1.2 SR 3.3.6.1.5 SR 3.3.6.1.6	≤115 psig	
	b.	Reactor Vessel Water Level - Low, Level 3	3.4.5	2(b)	Ι	SR 3.3.6.1.1 SR 3.3.6.1.2 SR 3.3.6.1.5 SR 3.3.6.1.6	≥ 528 inches above vessel zero	
	C.	Drywell Pressure - High	1.2.3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.5 SR 3.3.6.1.6	≤ 2.5 psig	

Table 3.3.6-1-1 (page 3 of 3) Primary Containment Isolation Instrumentation

(a) One SLC System Initiation signal provides logic input to close both RWCU valves.

(b) Only one channel per trip system required in MODES 4 and 5 when RHR Shutdown Cooling System integrity maintained.

BFN-UNIT 2

BASES

APPLICABLE SAFETY ANALYSES, LCO, and	<u>1.d. Main Steam Tunnel Temperature - High</u> (TS-1-17A-D, 29A-D, 40A-D, 54A-D)
APPLICABILITY (continued)	The Main Steam Tunnel Temperature Function is provided to detect a leak in the RCPB and provides diversity to the high flow instrumentation. The isolation occurs when a very small leak has occurred. If the small leak is allowed to continue without isolation, offsite dose limits may be reached. However, credit for these instruments is not taken in any transient or accident analysis in the FSAR, since bounding analyses are performed for large breaks, such as MSLBs.
	Main Steam Tunnel temperature signals are initiated from twelve bimetallic temperature switches and four temperature elements located in the areas being monitored. The four temperature elements monitor the Main Steam Valve Vault area. Sixteen channels of Main Steam Tunnel Temperature - High Function are required to be OPERABLE to ensure that no single instrument failure can preclude the isolation function.
	The main steam tunnel temperature detection system Allowable Value is chosen to detect a leak equivalent to between 1% and 10% rated steam flow.
	This Function isolates the Group 1 valves excluding the Recirculation Loop Sample valves.

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		FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	RFQUIRFD CHANNELS PER TRIP SYSTEM	CONDITIONS REFERENCED FROM REQUIRED ACTION C.1	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
5.	Reactor Water Cleanup (RWCU) System Isolation						
	a.	Main Steam Valve Vault Area Temperature - High	1.2.3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.5 SR 3.3.6.1.6	$\leq 201^{\circ}F$
	b.	Pipe Trench Area Temperature - High	1,2,3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.4 SR 3.3.6.1.6	≤ 135°F
	С.	Pump Room A Area Temperature - High	1.2.3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.4 SR 3.3.6.1.6	≤ 152°F
	d.	Pump Room B Area Temperature - High	1.2.3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.4 SR 3.3.6.1.6	≤152°F
	e.	Heat Exchanger Room Area (West Wall) Temperature - High	1,2,3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.4 SR 3.3.6.1.6	≤ 143°F
	f.	Heat Exchanger Room Area (East Wall) Temperature - High	1.2.3	2	F	SR 3.3.6.1.2 SR 3.3.6.1.4 SR 3.3.6.1.6	≤ 170°F
	g.	SLC System Initiation	1.2	1 ^(a)	Н	SR 3.3.6.1.6	NA
	h.	Reactor Vessel Water Level - Low, Level 3	1,2,3	2	F	SR 3.3.6.1.1 SR 3.3.6.1.2 SR 3.3.6.1.5 SR 3.3.6.1.6	≥ 528 inches above vessel zero
6.	Sh Isc	utdown Cooling System plation					
	a.	Reactor Steam Dome Pressure - High	1,2,3	1	F	SR 3.3.6.1.2 SR 3.3.6.1.5 SR 3.3.6.1.6	≤ 115 psig
	b.	Reactor Vessel Water Level - Low, Level 3	3,4,5	2 ^(b)	I	SR 3.3.6.1.1 SR 3.3.6.1.2 SR 3.3.6.1.5 SR 3.3.6.1.6	≥ 528 inches above vessel zero
	C.	Drywell Pressure - High	1.2.3	2	F	SR 3.3.6 1.2 SR 3.3.6.1.5 SR 3.3.6.1.6	≤ 2.5 psig

Table 3.3.6.1-1 (page 3 of 3) Primary Containment Isolation Instrumentation

(a) One SLC System Initiation signal provides logic input to close both RWCU valves.

(b) Only one channel per trip system required in MODES 4 and 5 when RHR Shutdown Cooling System integrity maintained.

BFN-UNIT 3

BASES

APPLICABLE SAFETY ANALYSES,	<u>1.d. Main Steam Tunnel Temperature - High</u> (TS-1-17A-D, 29A-D, 40A-D, 54A-D)
APPLICABILITY (continued)	The Main Steam Tunnel Temperature Function is provided to detect a leak in the RCPB and provides diversity to the high flow instrumentation. The isolation occurs when a very small leak has occurred. If the small leak is allowed to continue without isolation, offsite dose limits may be reached. However, credit for these instruments is not taken in any transient or accident analysis in the FSAR, since bounding analyses are performed for large breaks, such as MSLBs.
	Main Steam Tunnel temperature signals are initiated from twelve bimetallic temperature switches and four temperature elements located in the areas being monitored. The four temperature elements monitor the Main Steam Valve Vault area. Sixteen channels of Main Steam Tunnel Temperature - High Function are required to be OPERABLE to ensure that no single instrument failure can preclude the isolation function.
	The main steam tunnel temperature detection system Allowable Value is chosen to detect a leak equivalent to between 1% and 10% rated steam flow.
	This Function isolates the Group 1 valves excluding the Recirculation Loop Sample valves.

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