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TABLE 3.2-2 (Cont'd)

**CORE AND CONTAINMENT COOLING SYSTEM INITIATION AND
CONTROL INSTRUMENTATION OPERABILITY REQUIREMENTS**

Item No.	Minimum No. of Operable Instrument Channels Per Trip System	Trip Function	Total Number of Trip Level Setting	Instrument Channels Provided by Design for Both Trip Systems	Remarks
7	1 (Notes 3, 11)	Reactor Low Level	≥ 177 in. above TAF	2	Confirmatory low water level for ADS actuation.
8	2 (Notes 1, 2, 11)	Drywell High Pressure	≤ 2.7 psig	4	Initiates Core Spray, RHR (LPCI), HPCI and SGTS.
9	2 (Notes 6, 11)	Reactor Low Pressure	≥ 450 psig	4	Permits opening Core Spray and RHR (LPCI) injection valves.
10	1 (Notes 2, 12)	Reactor Low Pressure	$50 \leq p \leq 75$ psig	2	Permits closure of RHR (LPCI) injection valves while in shutdown cooling in conjunction with PCIS signal.
11	1 (Notes 7, 11)	Core Spray Pump Start Timer (each loop)	11 ± 1.34 sec.	1 (Note 16)	Initiates starting of core spray pump. (each loop)
12	1 (Notes 7, 11)	RHR (LPCI) Pump Start Timer			
		1st Pump (A Loop)	1.25 ± 0.26 sec.	1 (Note 16)	Starts 1st Pump (A Loop)
		1st Pump (B Loop)	1.25 ± 0.26 sec.	1 (Note 16)	Starts 1st Pump (B Loop)
		2nd Pump (A Loop)	6.0 ± 0.73 sec.	1 (Note 16)	Starts 2nd Pump (A Loop)
		2nd Pump (B Loop)	6.0 ± 0.73 sec.	1 (Note 16)	Starts 2nd Pump (B Loop)

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TABLE 3.2-2 (Cont'd)

**CORE AND CONTAINMENT COOLING SYSTEM INITIATION AND
CONTROL INSTRUMENTATION OPERABILITY REQUIREMENTS**

Item No.	Minimum No. of Operable Instrument Channels Per Trip System	Trip Function	Trip Level Setting	Total Number of Instrument Channels Provided by Design for Both Trip Systems	Remarks
13	1 (Notes 8, 11)	Auto Blowdown Timer	≤ 134 sec.	2	Initiates ADS (if not inhibited by ADS override switches).
14	4 (Notes 8, 11)	RHR (LPCI) Pump Discharge Pressure Interlock	125 psig $\pm$ 20 psig	8	Permits ADS actuation.
15	2 (Notes 8, 11)	Core Spray Pump Discharge Pressure Interlock	100 psig $\pm$ 10 psig	4	Permits ADS actuation.
16	2 (Notes 9, 11)	Condensate Storage Tank Low Level	≥ 59.5 in. above tank bottom (= 15,600 gal. avail)	2 (Note 16)	Transfers RCIC pump suction to suppression chamber.
17	2 (Notes 9, 11)	Condensate Storage Tank Low Level	≥ 59.5 in. above tank bottom (= 15,600 gal. avail)	2 (Note 16)	Transfers HPCI pump suction to suppression chamber.
18	2 (Notes 9, 11)	Suppression Chamber High Level	≤ 6 in. above normal level	2 (Note 16)	Transfers HPCI pump suction to suppression chamber.

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TABLE 4.2-2

CORE AND CONTAINMENT COOLING SYSTEM INSTRUMENTATION
TEST AND CALIBRATION REQUIREMENTS

Instrument Channel		Instrument Functional Test	Calibration Frequency	Instrument Check (Note 4)
1)	Reactor Water Level	Q (Note 5)	SA / R (Note 15)	D
2a)	Drywell Pressure (non-ATTS)	Q	Q	NA
2b)	Drywell Pressure (ATTS)	Q (Note 5)	SA / R (Note 15)	D
3a)	Reactor Pressure (non-ATTS)	Q	Q	NA
3b)	Reactor Pressure (ATTS)	Q (Note 5)	SA / R (Note 15)	D
4)	Auto Sequencing Timers	NA	R	NA
5)	ADS - LPCI or CS Pump Disch.	Q	Q	NA
6)	HPCI & RCIC Suction Source Levels	Q	Q	NA
7)	4kV Emergency Bus Under-Voltage (Loss-of-Voltage, Degraded Voltage LOCA and non-LOCA) Relays and Timers.	R	R	NA

NOTE: See notes following Table 4.2-5.

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TABLE 4.2-2 (Cont'd)

CORE AND CONTAINMENT COOLING SYSTEM INSTRUMENTATION
TEST AND CALIBRATION REQUIREMENTS

Logic System Functional Test		Frequency
1)	Core Spray Subsystem	R (Notes 7 & 9)
2)	Low Pressure Coolant Injection Subsystem	R (Notes 7 & 9)
3)	Containment Cooling Subsystem	R
4)	HPCI Subsystem	R (Notes 7 & 9)
5)	ADS Subsystem	R (Notes 7 & 9)

NOTE: See notes following Table 4.2-5.