

TABLE 7.4-6  
SUMMARY OF CSCS OPERATIONAL NUCLEAR SAFETY REQUIREMENTS

Incident Detection Circuitry Components	Nominal Trip Setting	Applicability Conditions												Required Number of Operable Components			Allowable Repair Time		Action Required When Operability Not Assured (see note)	Surveillance Test Frequency (see note)	Remarks	
		BWR Operating State								Non-Initiated Systems												
		A	B	C		D		E	F	HPCIS	ADS	LPCIS		CSS	Condition** I	Condition ** II	Condition** III	Condition** II				Condition** III
					above 122 psig		above 122 psig					Loop Selection	System Initiation									
HPCIS trip system					X		X	X	X	X				1	1*	1	2/3 month	NA	a	d	*Either the HPCIS trip system or the ADS trip system may be inoperable for the allowable repair time	
ADS trip system					X		X	X	X		X			1	1*	1	2/3 month	NA	a	d		
LPCIS trip systems				X		X		X	X			X	X	2	1	2	2/3 month	NA	b	d		
CSS trip systems				X		X		X	X					2	1	2	2/3 month	NA	b	d		
HPCIS trip system logics					X		X	X	X	X				2 per trip system	2 per operable trip system	2 per trip system	NA	NA	a	d		
ADS trip system logics					X		X	X	X		X			2 per trip system	2 per operable trip system	2 per trip system	NA	NA	a	d		
LPCIS initiation trip system logics				X		X		X	X				X	2 per trip system	2 per operable trip system	2 per trip system	NA	NA	b	d		
LPCIS recirculation loop selection trip system logics				X		X		X	X			X		1 per trip system	1 per operable trip system	1 per trip system	NA	NA	b	d		
CSS trip system logics				X		X		X	X					2 per trip system	2 per operable trip system	2 per trip system	NA	NA	b	d		
Parallel logic pairs				X		X		X	X	X		X	X	X	1 per trip system logic	2 per trip system logic	2 per trip system logic	NA	NA	c	d	Condition 1: the inoperable parallel logic pair is tripped.
HPCIS reactor vessel low water low water level (#2) channels	129.7 in. above top of active fuel				X		X	X	X	X				2 per operable parallel logic pair	4	3	NA	2/3 month	a	3 months	Condition 1: the inoperable channel is tripped.  Condition 1: the inoperable channel is tripped.	
HPCIS primary containment high- pressure channels	2 psig				X		X	X	X	X				2 per operable parallel logic pair	4	3	NA	2/3 month	a	3 months		
ADS reactor vessel low water level (#1) channels	17.7 in. above top of active fuel				X		X	X	X		X			2 per trip system logic	4	3	NA	2/3 month	a	3 months		
ADS primary containment high- pressure channels	2 psig				X		X	X	X		X			2 per trip system logic	4	3	NA	2/3 month	a	3 months		
ADS delay timer	120 sec.				X		X	X	X		X			1 per trip system logic	1	1	NA	NA	a	3 months		
LPCI pump discharge pressure channels	50 psig				X		X	X	X		X			1 in an operable low pressure pump cooling path	1 in an operable low pressure pump cooling path	1 in an operable low pressure pump cooling path	NA	NA	a	3 months		
CSS pump discharge pressure channels	185 psig																					
LPCIS reactor vessel low water level (#1) channels	17.7 in. above top of active fuel			X		X		X	X				X	2 per operable parallel logic pair	4	3	NA	1½ months	b	3 months		
LPCIS reactor vessel low water level (#2) channels	129.7 in. above top of active fuel			X		X		X	X			X		2 per operable parallel logic pair	4	3	NA	1½ months	b	3 months		
LPCIS primary containment high- pressure channels	2 psig			X		X		X	X				X	2 per operable parallel logic pair	4	3	NA	1½ months	b	3 months		
CSS reactor vessel low water level (#1) channels	17.7 in. above top of active fuel			X		X		X	X					2 per operable parallel logic pair	4	3	NA	1½ months	b	3 months		
CSS primary containment high- pressure channels	2 psig			X		X		X	X					2 per operable parallel logic pair	4	3	NA	1½ months	b	3 months		

\*\*Condition I — All trip systems, logics, and channels operable.  
Condition II — One LPCI and CSS trip system inoperable.  
Condition III — Minimum required operable channels with all  
trip systems operable.

NOTES

- a. The nuclear system pressure shall be reduced to 122 psig.
- b. The nuclear system shall be placed in the cold shutdown condition.
- c. For inoperable HPCIS parallel logic pairs, Note (a) must be observed. For inoperable LPCIS and CSS parallel logic pairs, Note (b) must be observed.
- d. Tested when other equipment is tested; no specific test required.