

TABLE 3.1.1 PROTECTIVE INSTRUMENTATION REQUIREMENTS

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Function	Trip Setting	Reactor Modes in which Function Must Be OPERABLE			Minimum Number of OPERABLE or OPERATING [tripped] Trip Systems	Minimum Number of Instrument Channels Per OPERABLE Trip System	Action Required*
		Shutdown	Refuel	Startup			
M. Diesel Generator Load Sequence Timers (Cont'd.)							
2. Service Water Pump (aa)	120 sec $\pm$ 15% (SK1A) (SK2A)	X	X	X	2(o)	2(p)(kk)	Consider the pump inoperable and comply within 7 days (See note q)
	10 sec. $\pm$ 15% (SK7A) (SK8A)						
3. Reactor Building Closed Cooling Water Pump (bb)	166 sec $\pm$ 15%	X	X	X	2(m)	1(n)(kk)	Consider the pump inoperable and comply within 7 days (See note q)
N. Loss of Power							
a. 4.16 KV Emergency Bus Undervoltage (Loss of Voltage)	**	X(ff)	X(ff)	X(ff)	2	1(kk)	
b. 4.16 KV Emergency Bus Undervoltage (Degraded Voltage)	**	X(ff)	X(ff)	X(ff)	2	3(kk)	See note q
O. Containment Vent and Purge Isolation							
1. Drywell High Radiation	$\leq$ 74.6 R/hr	X(u)	X(u)	X(u)	1	1	Isolate vent & purge pathways or PLACE IN COLD SHUTDOWN CONDITION

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Individual electromagnetic relief valve control switches shall not be placed in the "Off" position for more than 8 hours (total time for all control switches) in any 30-day period and only one relief valve control switch may be placed in the "Off" position at a time.

i. With two core spray systems OPERABLE:

1. A maximum of two core spray booster pump differential pressure (d/p) switches may be inoperable provided that the switches are in opposing ADS trip systems [i.e., only: either RV-40 A&D or RV-40 B&C]. Place the relay contacts associated with the inoperable d/p switch(es) in the de-energized position, within 24 hours. Restore the inoperable d/p switch(es) within 8 days, or declare ADS inoperable and take the action required by Specification 3.4.B.3;

or,

2. If two inoperable d/p switches are in the same ADS trip system [i.e., RV-40 A&B or RV-40 C&D], place the relay contacts associated with the inoperable d/p switch(es) in the de-energized position, within 24 hours. Restore the inoperable d/p switches within 4 days, or declare ADS inoperable and take the action required by Specification 3.4.B.3.

With only one core spray system OPERABLE:

If one or more d/p switches become inoperable in the OPERABLE core spray system, declare ADS inoperable and take the action required by Specification 3.4.B.3.

- j. Not required below 40% of rated reactor thermal power.

- k. All four (4) drywell pressure instrument channels may be made inoperable during the integrated primary containment leakage rate test (See Specification 4.5), provided that the plant is in the COLD SHUTDOWN condition and that no work is performed on the reactor or its connected systems which could result in lowering the reactor water level to less than 4'8" above the TOP OF THE ACTIVE FUEL.

- l. Bypass in IRM Ranges 8, 9, and 10.

- m. There is one time delay relay associated with each of two pumps.

- n. One time delay relay per pump must be OPERABLE.

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