

TABLE 3.3-1

REACTOR PROTECTIVE INSTRUMENTATION

FUNCTIONAL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
I. TRIP GENERATION					
A. Process					
1. Pressurizer Pressure - High	4	2	3	1, 2	2 [#] , 3 [#]
2. Pressurizer Pressure - Low	4	2 (b)	3	1, 2	2 [#] , 3 [#]
3. Steam Generator Level - Low	4/SG	2/SG	3/SG	1, 2	2 [#] , 3 [#]
4. Steam Generator Level - High	4/SG	2/SG	3/SG	1, 2	2 [#] , 3 [#]
5. Steam Generator Pressure - Low	4/SG	2/SG	3/SG	1, 2, 3*, 4*	2 [#] , 3 [#]
6. Containment Pressure - High	4	2	3	1, 2	2 [#] , 3 [#]
7. Reactor Coolant Flow - Low	4/SG	2/SG	3/SG	1, 2	2 [#] , 3 [#] , 9 [#]
8. Local Power Density - High	4	2 (c)(d)	3	1, 2	2 [#] , 3 [#]
9. DNBR - Low	4	2 (c)(d)	3	1, 2	2 [#] , 3 [#]
B. Excore Neutron Flux					
1. Variable Overpower Trip	4	2	3	1, 2	2 [#] , 3 [#]
2. Logarithmic Power Level - High					
a. Startup and Operating	4	2 (a)(d)	3	1, 2	2 [#] , 3 [#]
	4	2	3	3*, 4*, 5*	8
b. Shutdown	4	0	2	3, 4, 5	4
C. Core Protection Calculator System					
1. CEA Calculators	2	1	2 (e)	1, 2	6, 7
2. Core Protection Calculators	4	2 (c)(d)	3	1, 2	2 [#] , 3 [#] , 7

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TABLE 3.3-1 (Continued)

REACTOR PROTECTIVE INSTRUMENTATION

ACTION STATEMENTS

"2. Within 4 hours:

- a) All full length and part length CEA groups are withdrawn to and subsequently maintained at the "Full Out" position, except during surveillance testing pursuant to the requirements of Specification 4.1.3.1.2 or for control when CEA group 5 may be inserted no further than 127.5 inches withdrawn.
- b) The "RSPT/CEAC Inoperable" addressable constant in the CPCs is set to be indicated that both CEAC's are inoperable.
- c) The Control Element Drive Mechanism Control System (CEDMCS) is placed in and subsequently maintained in the "Standby" mode except during CEA group 5 motion permitted by a) above, when the CEDMCS may be operated in either the "Manual Group" or "Manual Individual" mode.

3. At least once per 4 hours, all full length and part length CEAs are verified fully withdrawn except during surveillance testing pursuant to Specification 4.1.3.1.2 or during insertion of CEA group 5 as permitted by 2.a) above, then verify at least once per 4 hours that the inserted CEAs are aligned within 6.6 inches (indicated position) of all other CEAs in its group.

4. Following a CEA misalignment with both CEAC's and COLSS inoperable, operation may continue provided that within 1 hour:

The power is reduced to 85% of the pre-misaligned power but need not be reduced to less than 50% of RATED THERMAL POWER. This power restriction replaces the power restriction of Specification 3.1.3.1, Figure 3.1-2B, otherwise Specification 3.1.3.1 remains applicable.

ACTION 7 - With three or more auto restarts, excluding periodic auto restarts (Code 30 and Code 33), of one non-bypassed calculator during a 12-hour interval, demonstrate calculator OPERABILITY by performing a CHANNEL FUNCTIONAL TEST within the next 24 hours.

ACTION 8 - With the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement, restore an inoperable channel to OPERABLE status within 48 hours or open an affected reactor trip breaker within the next hour.

ACTION 9 -

PALO VERDE - UNIT 2

INSERT

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