

3.3 INSTRUMENTATION

3.3.3 Post Accident Monitoring (PAM) Instrumentation

LC0 3.3.3 The PAM instrumentation for each Function in Table 3.3.3-1 shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTIONS

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1. LC0 3.0.4 is not applicable.
  2. Separate Condition entry is allowed for each Function.
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CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more Functions with one required channel inoperable.	A.1 Restore required channel to OPERABLE status.	30 days
B. Required Action and associated Completion Time of Condition A not met.	B.1 Initiate action in accordance with Specification 5.6.7.	Immediately

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>C. One or more Functions with two required channels inoperable.</p> <p><u>OR</u></p> <p>One required <math>T_{hot}</math> channel and two required Core Exit Temperature channels inoperable.</p> <p><u>OR</u></p> <p>One required <math>T_{cold}</math> channel and two required SG Pressure channels inoperable.</p> <p><u>OR</u></p> <p>One required Main Steam Line Radiation channel and two required SG Water Level (Narrow Range) channels inoperable.</p>	<p>C.1 Restore one channel to OPERABLE status.</p>	<p>7 days</p>
<p>D. Required Action and associated Completion Time of Condition C not met.</p>	<p>D.1 Enter the Condition referenced in Table 3.3.3-1 for the channel.</p>	<p>Immediately</p>
<p>E. As required by Required Action D.1 and referenced in Table 3.3.3-1.</p>	<p>E.1 Be in MODE 3.</p> <p><u>AND</u></p> <p>E.2 Be in MODE 4.</p>	<p>6 hours</p> <p>12 hours</p>
<p>F. As required by Required Action D.1 and referenced in Table 3.3.3-1.</p>	<p>F.1 Initiate action in accordance with Specification 5.6.7.</p>	<p>Immediately</p>

Table 3.3.3-1 (page 1 of 2)  
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FUNCTION	REQUIRED CHANNELS	CONDITION REFERENCED FROM REQUIRED ACTION D.1	SR 3.3.3.2 FREQUENCY
1. Neutron Flux	2	F	24 months
2. RCS Hot Leg Temperature, (Wide Range) (T <sub>hot</sub> )	1 per loop	E	24 months
3. RCS Cold Leg Temperature (Wide Range) (T <sub>cold</sub> )	1 per loop	E	24 months
4. RCS Pressure (Wide Range)	2	E	24 months
5. Reactor Vessel Water Level	2	E	24 months
6. Containment Water Level (Wide Range)	2	E	24 months
7. Containment Water Level (Recirculation Sump)	2	E	24 months
8. Containment Pressure	2	E	18 months
9. Automatic Containment Isolation Valve Position	2 per penetration flow path(a)(b)	F	24 months
10. Containment Area Radiation (High Range)	2	F	24 months
11. Containment Hydrogen Monitors.	2(c)	E	92 days
12. Pressurizer Level	2	E	24 months
13. SG Water Level (Narrow Range)	2 per SG	E	24 months
14. SG Water Level (Wide Range) and Auxiliary Feedwater Flow	1 each per SG	E	24 months, SGL 18 months, AFF
15. NOT USED			
16. SG Pressure	2 per SG	E	24 months
17. Condensate Storage Tank Level	2	F	24 months
18. Core Exit Temperature-Quadrant 1	2(d)	E	24 months
19. Core Exit Temperature-Quadrant 2	2(d)	E	24 months
20. Core Exit Temperature-Quadrant 3	2(d)	E	24 months
21. Core Exit Temperature-Quadrant 4	2(d)	E	24 months
22. Main Steam Line Radiation	1 per steam line	F	24 months
23. Gross Failed Fuel Detector	2	F	24 months
24. RCS Subcooling	2	E	24 months

See NOTES, next page.

(continued)

Table 3.3.3-1 (page 2 of 2)  
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NOTES:

- (a) Not required for isolation valves whose associated penetration is isolated by at least one closed and deactivated automatic valve, closed manual valve, blind flange, or check valve with flow through the valve secured.
- (b) Only one position indication channel is required for penetration flow paths with only one installed control room indication channel.
- (c) Hydrogen monitor OPERABILITY requires that at least one of the associated containment fan cooler unit is OPERABLE.
- (d) A channel consists of two core exit thermocouples (CETs).