

TABLE 3.5-5
(THIS TABLE APPLIES WHEN THE RCS IS > 350°F)
INSTRUMENTATION TO FOLLOW THE COURSE OF AN ACCIDENT

NO.	INSTRUMENT	1 MINIMUM CHANNELS OPERABLE	2 OPERATOR ACTION IF CONDITIONS OF COLUMN 1 CANNOT BE MET
1	Pressurizer Level	2	See Item 9 Table 3.5-2
2	Auxiliary Feedwater Flow Indication (Primary Indication) SD AFW Pump MD AFW Pump	1 per S/G 1 per S/G	Note 1
3	Reactor Coolant System Subcooling Monitor	1	Note 2
4	PORV Position Indicator (Primary)	1	Note 3
5	PORV Blocking Valve Position Indicator (Primary)	1	Note 3
6	Safety Valve Position Indicator (Primary)	1	Note 3
7	Noble Gas Effluent Monitors ***** a. Main Steam Line b. Main Vent Stack High Range Mid Range c. Spent Fuel Pit-Lower Level High Range	1 per steamline 1 1 1	Note 4 Note 4 Note 4 Note 4
8	CV High Range Radiation Monitor *****	2	Note 4
9	CV Level (Wide Range) *	2	Note 5
10	CV Pressure (Wide Range) **	2	Note 5
11	CV Hydrogen Monitor ***	1	Note 6
12	Reactor Vessel Level Instrumentation System (RVLIS)	1	Note 7
13	Incore Thermocouple (T/C)	2 T/C per core quadrant	Note 8

- * Containment Water Level Monitor - NUREG-0737 Item II.F.1.5
 ** Containment Pressure Monitor - NUREG-0737 Item II.F.1.4
 *** Containment Hydrogen Monitor - NUREG-0737 Item II.F.1.6
 **** Containment High-Range Radiation Monitor - NUREG-0737 Item II.F.1.3
 ***** Noble Gas Effluent Monitors - NUREG-0737 Item II.F.1.1

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Amendment No.

TABLE 3.5-5 (Continued)

INSTRUMENTATION TO FOLLOW THE COURSE OF AN ACCIDENT

TABLE NOTATION

- Note 4: With the number of OPERABLE Channels less than required by the Minimum Channels OPERABLE requirement, restore the inoperable Channel(s) to OPERABLE status within 7 days, or prepare and submit a Special Report to the NRC within the following 14 days detailing the cause of the inoperable Channel(s), the action being taken to restore the Channel(s) to operable status, the estimated date for completion of repairs, and any compensatory action being taken while the Channel(s) is inoperable.
- Note 5: If one channel is inoperable, restore the channel to operable status within 30 days, or prepare and submit a Special Report to the NRC within the following 14 days detailing the cause(s) of the inoperable channel(s), the actions being taken to restore the channel to operable status, the estimated date for completion of the repairs, and the compensatory action being taken while the channel is inoperable. If both channels become inoperable and a preplanned alternate method of monitoring is available, then restore at least one channel to operable status within 7 days or prepare and submit a Special Report to the NRC within the following 14 days detailing the cause(s) of the inoperable channels, the action being taken to restore at least one channel to operable status, the estimated date for completion of the repairs, and a description of the alternate method of monitoring the affected parameter while both channels are inoperable. If a pre-planned alternate method of monitoring the affected parameter is not available and implemented with both channels inoperable, then restore at least one channel to an operable status within 7 days or be in Hot Shutdown within 6 hours and $\leq 350^{\circ}\text{F}$ within the following 30 hours.
- Note 6: With both channels inoperable, restore at least one channel to an operable status within 14 days or be in hot shutdown within 6 hours and $\leq 200^{\circ}\text{F}$ within the following 30 hours.
- Note 7: With the number of OPERABLE channels less than the MINIMUM CHANNELS OPERABLE requirement, ensure the availability of an alternate method of monitoring the reactor vessel inventory. Restore at least one channel to operable status within 7 days or prepare and submit a Special Report to the Commission within the following 14 days outlining the action taken, the cause of inoperability, and the plans and schedule for restoring the system to OPERABLE status.

TABLE 3.5-5 (Continued)

INSTRUMENTATION TO FOLLOW THE COURSE OF AN ACCIDENT

TABLE NOTATION

Note 8: With the number of operable thermocouples one less than required by the MINIMUM CHANNELS OPERABLE requirements, restore the inoperable thermocouple to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours and $< 350^{\circ}\text{F}$ within the next 30 hours.

With the number of operable thermocouples two less than the MINIMUM CHANNELS OPERABLE requirement, restore at least one thermocouple to OPERABLE status within 48 hours or be in at least HOT SHUTDOWN within the next 12 hours and $< 350^{\circ}\text{F}$ within the next 30 hours.

TABLE 4.1-1 (Continued)

MINIMUM FREQUENCIES FOR CHECKS, CALIBRATIONS AND TEST OF INSTRUMENT CHANNELS

	<u>Channel Description</u>	<u>Check</u>	<u>Calibration</u>	<u>Test</u>	<u>Remarks</u>
	b. Main Vent Stack				
	High Range	D	R	Q	
	Mid Range	D	R	Q	
	c. Spent Fuel Pit-Lower Level				
	High Range	D	R	Q	
39.	Steam/Feedwater Flow Mismatch	N.A.	R	M	
40.	Low Steam Generator Water Level	N.A.	R	M	
41.	CV Level (Wide Range)+	M	R	R	
42.	CV Pressure (Wide Range)++	M	R	R	
43.	CV Hydrogen Monitor+++	M	R	R	
44.	CV High Range Radiation Monitor++++	M	R#	R	
45.	RCS High Point Vents	N.A.	N.A.	R	
46.	Reactor Vessel Level Instrumentation System (RVLIS)	M	R	N.A.	
47.	Incore Thermocouple Temperature Instrumentation	M	R	N.A.	

+ Containment Water Level Monitor - NUREG-0737 Item II.F.1.5

++ Containment Pressure Monitor - NUREG-0737 Item II.F.1.4

+++ Containment Hydrogen Monitor - NUREG-0737 Item II.F.1.6

++++ Containment High-Range Radiation Monitor - NUREG-0737 Item II.F.1.3

Calibration performed in accordance with CP&L's letter dated April 28, 1982; S. R. Zimmerman to S. A. Varga.

S - At least once per 12 hours

D - At least once per 24 hours

W - At least once per 7 days

B/W - At least once per 14 days

M - At least once per 31 days

Q - At least once per 92 days

S/U - Prior to each reactor startup if not performed in the previous seven (7) days

R - At least once per 18 months

N.A. - Not applicable