

ATTACHMENT II TO JPN-91-014

**REPLACEMENT TECHNICAL SPECIFICATION PAGES
ACCIDENT MONITORING INSTRUMENTATION AMENDMENT**

(JPTS-89-015)

New York Power Authority

**JAMES A. FITZPATRICK NUCLEAR POWER PLANT
Docket No. 50-333**

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3.2 (cont'd)

E. Drywell Leak Detection

The limiting conditions of operation for the instrumentation that monitors drywell leak detection are given in Table 3.2-5.

F. (Deleted)

G. Recirculation Pump Trip

The limiting conditions for operation for the instrumentation that trip(s) the recirculation pumps as a means of limiting the consequences of a failure to scram during an anticipated transient are given in Table 3.2-7.

H. Accident Monitoring Instrumentation

The limiting conditions for operation of the instrumentation that provides accident monitoring are given in Table 3.2-8.

I. 4kv Emergency Bus Undervoltage Trip

The limiting conditions for operation for the instrumentation that prevents damage to electrical equipment or circuits as a result of either a degraded or loss-of-voltage condition on the emergency electrical buses are given in Table 3.2-2.

4.2 (cont'd)

E. Drywell Leak Detection

Instrumentation shall be calibrated and checked as indicated in Table 4.2-5

F. (Deleted)

G. Recirculation Pump Trip

Instrumentation shall be functionally tested and calibrated as indicated in Table 4.2-7.

System logic shall be functionally tested as indicated in Table 4.2-7.

H. Accident Monitoring Instrumentation

Instrumentation shall be demonstrated operable by performance of a channel check and channel calibration as indicated in Table 4.2-8.

TABLE 3.2-8

ACCIDENT MONITORING INSTRUMENTATION

Instrument		No. of Channels Provided by Design	Minimum No. of Operable Channels Required	Mode in Which Instrument Must be Operable	Action
1.	Stack High Range Effluent Monitor (17RM-53A) (17RM-53B)	2	1	Note H	Note B
2.	Turbine Building Vent High Range Effluent Monitor (17RM-434A) (17RM-434B)	2	1	Note H	Note B
3.	Radwaste Building Vent High Range Effluent Monitor (17RM-463A) (17RM-463B)	2	1	Note H	Note B
4.	Containment High Range Radiation Monitor* (27RM-104A) (27RM-104B)	2	1	Note H	Note A
5.	Drywell Pressure (narrow range) (27PI-115A1 or 27PR-115A1) (27PI-115B1 or 27PR-115B1)	2	1	Note J	Note A
6.	Drywell Pressure (wide range) (27PI-115A2 or 27PR-115A2) (27PI-115B2 or 27PR-115B2)	2	1	Note J	Note A
7.	Drywell Temperature (16-1TR-107) (16-1TR-108)	2	1	Note J	Note A

* At less than or equal to 450 R/hr, closes vent and purge valves

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TABLE 3.2-8 (cont'd)

ACCIDENT MONITORING INSTRUMENTATION

Instrument	No. of Channels Provided by Design	Minimum No. of Operable Channels Required	Mode in Which Instrument Must be Operable	Action
8. Torus Water Level (wide range) (23LI-202A or 23LR-202A/203A) (23LI-202B or 23LR-202B/203B)	2	1	Note J	Note A
9. Torus Bulk Water Temperature (16-1TI-131A or 16-1TR-131A) (16-1TI-131B or 16-1TR-131B)	2	1	Note J	Note A
10. Torus Pressure (27PR-101A) (27PR-101B1)	2	1	Note J	Note A
11. Drywell Hydrogen/Oxygen Concentration (27PCR-101A) (27PCR-101B)	2	1	Note J	Note F
12. Reactor Vessel Pressure (06PI-61A or 06PR-61A) (06PI-61B or 06PR-61B)	2	1	Note J	Note A
13. Reactor Water Level (fuel zone) (02-3LI-091) (02-3LR-098)	2	1	Note J	Note A
14. Reactor Water Level (wide range) (02-3LI-85A) (02-3LR-85B)	2	1	Note J	Note A

TABLE 3.2-8 (cont'd)

ACCIDENT MONITORING INSTRUMENTATION

Instrument	No. of Channels Provided by Design	Minimum No. of Operable Channels Required	Mode in Which Instrument Must be Operable	Action
15. Core Spray Flow loop A (14FI-50A) loop B (14FI-50B)	1 per loop	1 per loop	Note J	Note A
16. Core Spray discharge pressure loop A (14PI-48A) loop B (14PI-48B)	1 per loop	1 per loop	Note J	Note A
17. LPCI (RHR) Flow loop A (10FI-133A) (10FR-143 - red pen) loop B (10FI-133B) (10FR-143 - black pen)	2 per loop	1 per loop	Note J	Note A
18. RHR Service Water Flow loop A (10FI-132A) loop B (10FI-132B)	1 per loop	1 per loop	Note J	Note A
19. Safety/Relief Valve Position Indicator (See Note C)	2	1	Note J	Notes D, E
20. Torus Water Level (narrow range) (23LI-201A or 27R-101 - red pen or EPIC A-1258) (EPIC A-1260) (See Note G)	2	1	Note J	Note B
21. Drywell-Torus Differential Pressure (16-1DPR-200 or EPIC A-3554) (EPIC A-3551) (See Note G)	2	1	Note J	Note B

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TABLE 3.2-8 (Cont'd)

ACCIDENT MONITORING INSTRUMENTATION

NOTES FOR TABLE 3.2-8

- A. With the number of operable channels less than the required minimum, either restore the inoperable channels to operable status within 30 days, or be in a cold condition within the next 24 hours.
- B. With the number of OPERABLE channels less than required by the minimum channels OPERABLE requirements, initiate an alternate method of monitoring the appropriate parameter(s) within 72 hours and: (1) either restore the inoperable channel(s) to OPERABLE status within 7 days of the event, or (2) prepare and submit a Special Report to the Commission within 14 days following the event outlining the cause of the inoperability, the action taken, and the plans and schedule for restoring the system to OPERABLE status.
- C. Each Safety/Relief Valve is equipped with two acoustical detectors, one of which is in service. Each SRV also has a backup thermocouple detector. In the event that a thermocouple is inoperable, SRV performance shall be monitored daily with the associated in service acoustical detector.
- D. From and after the date that both of the acoustical detectors are inoperable, continued operation is permissible until the next outage in which a primary containment entry is made provided that the thermocouple is operable. Both acoustical detectors shall be made operable prior to restart.
- E. In the event that both primary (acoustical detectors) and secondary (thermocouple) indications of this parameter for any one valve are disabled and neither indication can be restored in forty-eight (48) hours, an orderly shutdown shall be initiated and the reactor shall be in a Hot Shutdown condition in twelve (12) hours and in a Cold Shutdown within the next twenty-four (24) hours.
- F. Refer to Specification 3.7.A.9.
- G. This parameter and associated instrumentation are not part of post-accident monitoring.
- H. This instrument shall be operable in the Run, Startup/Hot Standby, and Hot Shutdown modes.
- J. This instrument shall be operable in the Run and Startup/Hot Standby modes.

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TABLE 4.2-8

**MINIMUM TEST AND CALIBRATION FREQUENCY FOR
ACCIDENT MONITORING INSTRUMENTATION**

Instrument	Instrument Functional Test	Instrument Calibration Frequency	Instrument Check
1. Stack High Range Effluent Monitor	Once/Operating Cycle	Once/Operating Cycle	Once/day
2. Turbine Building Vent High Range Effluent Monitor	Once/Operating Cycle	Once/Operating Cycle	Once/day
3. Radwaste Building Vent High Range Effluent Monitor	Once/Operating Cycle	Once/Operating Cycle	Once/day
4. Containment High Range Radiation Monitor	Once/Operating Cycle	Once/Operating Cycle	Once/day
5. Drywell Pressure (narrow range)	N/A	Once/Operating Cycle	Once/day
6. Drywell Pressure (wide range)	N/A	Once/Operating Cycle	Once/day
7. Drywell Temperature	N/A	Once/Operating Cycle	Once/day
8. Torus Water Level (wide range)	N/A	Once/Operating Cycle	Once/day
9. Torus Bulk Water Temperature	N/A	Once/Operating Cycle	Once/day
10. Torus Pressure	N/A	Once/Operating Cycle	Once/day
11. Drywell Hydrogen/Oxygen Concentration Analyzer	N/A	Once/3 months	Once/day
12. Reactor Vessel Pressure	N/A	Once/Operating Cycle	Once/day
13. Reactor Water Level (fuel zone)	N/A	Once/Operating Cycle	Once/day
14. Reactor Water Level (wide range)	N/A	Once/Operating Cycle	Once/day

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TABLE 4.2-8 (cont'd)

**MINIMUM TEST AND CALIBRATION FREQUENCY FOR
ACCIDENT MONITORING INSTRUMENTATION**

Instrument		Instrument Functional Test	Instrument Calibration Frequency	Instrument Check
15.	Core Spray Flow	N/A	Once/Operating Cycle	Once/day
16.	Core Spray Discharge Pressure	N/A	Once/Operating Cycle	Once/day
17.	LPCI (RHR) Flow	N/A	Once/Operating Cycle	Once/day
18.	RHR Service Water Flow	N/A	Once/Operating Cycle	Once/day
19.	Safety/Relief Valve Position Indicator (Primary and Secondary)	Once/Operating Cycle	N/A	Once/month
20.	Torus Water Level (narrow range)	N/A	Once/Operating Cycle	Once/day
21.	Drywell-Torus Differential Pressure	N/A	Once/Operating Cycle	Once/day