

ENCLOSURE 1

H. B. ROBINSON STEAM ELECTRIC PLANT
DOCKET NO. 50-261/LICENSE NO. DPR-23
RETYPE TECHNICAL SPECIFICATION PAGES
NUCLEAR INSTRUMENTATION SURVEILLANCE

9104230313 910415
PDR ADOCK 05000261
P PDR

TABLE 4.1-1
MINIMUM FREQUENCIES FOR CHECKS, CALIBRATIONS AND TEST OF INSTRUMENT CHANNELS

<u>Channel Description</u>	<u>Check</u>	<u>Calibrate</u>	<u>Test</u>	<u>Remarks</u>
1. Nuclear Power Range	S	D (1) EM* (3) R* (3)	B/W (2)	(1) Thermal Power calculations during power operations (2) Signal to ΔT ; bistable action (permissive, rod stop, trips) (3) Upper and lower chambers for symmetric offset: monthly during power operations.
2. Nuclear Intermediate Range	S (1)	N.A.	S/U (2)	(1) Once/shift when in service (2) Log level; bistable action (permissive, rod stop, trip)
3. Nuclear Source Range	S (1)	N.A.	S/U (2)	(1) Once/shift when in service (2) Bistable action (alarm, trip)
4. Reactor Coolant Temperature	S	R (4)	B/W (1)(2) R (3)	(1) Overtemperature - ΔT (2) Overpower - ΔT (3) Narrow range RTD response time (4) To include narrow range RTD cross calibration
5. Reactor Coolant Flow	S	R	M	
6. Pressurizer Water Level	S	R	M	
7. Pressurizer Pressure	S	R	M	
8. 4 Kv Voltage	N.A	R	M	Reactor Protection circuits only

* By means of the movable in-core detector system

4.1-5

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TABLE 4.1-1 (Continued)

48. Reactor Vessel Level Instrumentation
System (RVLIS)

M

R

N.A.

49. 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

EM - At least once per effective
full power month (EFPM)

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

4.1-9a

Amendment No.