

DAVIS-BESSE, UNIT 1

3/4 3-7

Amendment No. 7, 39, 43

TABLE 4.3-1

REACTOR PROTECTION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>FUNCTIONAL UNIT</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>CHANNEL FUNCTIONAL TEST</u>	<u>MODES IN WHICH SURVEILLANCE REQUIRED</u>
1. Manual Reactor Trip	N.A.	N.A.	S/U(1)	N.A.
2. High Flux	S	D(2), and Q(7)	M	1, 2
3. RC High Temperature	S	R	M	1, 2
4. Flux - Δ Flux - Flow	S(4)	M(3) and Q(7,8)	M	1, 2
5. RC Low Pressure	S	R***	M	1, 2
6. RC High Pressure	S	R***	M	1, 2
7. RC Pressure-Temperature	S	R	M	1, 2
8. High Flux/Number of Reactor Coolant Pumps On	S	R	M	1, 2
9. Containment High Pressure	S	R	M	1, 2
10. Intermediate Range, Neutron Flux and Rate	S	R(7)	S/U(5)(1)	1, 2 and*
11. Source Range, Neutron Flux and Rate	S	R(7)	M and S/U(1)(5)	2, 3, 4 and 5
12. Control Rod Drive Trip Breakers	N.A.	N.A.	M and S/U(1)	1, 2 and*
13. Reactor Trip Module Logic	N.A.	N.A.	M	1, 2 and*
14. Shutdown Bypass High Pressure	S	R	M	2**, 3**, 4**, 5**

M(9) and S/U(1,9)

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FCA 85-0064 Rev A

TABLE 4.3-1 (Continued)

NOTATION

- (1) - If not performed in previous 7 days.
- (2) - Heat balance only, above 15% of RATED THERMAL POWER.
- (3) - When THERMAL POWER [TP] is above 30% of RATED THERMAL POWER [RTP], compare out-of-core measured AXIAL POWER IMBALANCE [API_o] to incore measured AXIAL POWER IMBALANCE [API_i]. Recalibrate if:

$$\frac{RTP}{TP} [API_o - API_i] \geq 3.5\%$$

- (4) - AXIAL POWER IMBALANCE and loop flow indications only.
- (5) - Verify at least one decade overlap if not verified in previous 7 days.
- (6) - Each train tested every other month.
- (7) - Neutron detectors may be excluded from CHANNEL CALIBRATION.
- (8) - Flow rate measurement sensors may be excluded from CHANNEL CALIBRATION. However, each flow measurement sensor shall be calibrated at least once per 18 months.***

* - With any control rod drive trip breaker closed.

** - When Shutdown Bypass is actuated.

*** - Eighteen-month surveillance test due in March 1982 delayed until March 31, 1982.

(9) - TESTING INDEPENDENTLY CONFIRMS THE OPERABILITY OF THE SHUNT AND UNDERVOLTAGE TRIP DEVICES.