

ENCLOSURE 2
PROPOSED REVISED RIVER BEND
TECHNICAL SPECIFICATIONS

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TABLE 4.3.1.1-1

REACTOR PROTECTION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>FUNCTIONAL UNIT</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL FUNCTIONAL TEST</u>	<u>CHANNEL CALIBRATION^(a)</u>	<u>OPERATIONAL CONDITIONS IN WHICH SURVEILLANCE REQUIRED</u>
1. Intermediate Range Monitors:				
a. Neutron Flux - High	S/U,S,(b) S	S/U ^(c) , W W	R R	2 3, 4, 5
b. Inoperative	NA	W	NA	2, 3, 4, 5
2. Average Power Range Monitor: ^(f)				
a. Neutron Flux - High, Setdown	S/U,S,(b) S	S/U ^(c) , W W	SA SA	2 3, 4, 5
b. Flow Biased Simulated Thermal Power - High	S,D ^(h)	S/U ^(c) , W	W ^{(d)(e)} , SA ^(o) , R ⁽ⁱ⁾	1
c. Neutron Flux - High	S	S/U ^(c) , W	W ^(d) , SA	1
d. Inoperative	NA	W	NA	1, 2, 3, 4, 5
3. Reactor Vessel Steam Dome Pressure - High	S	M	R ^(g)	1, 2 ^(j)
4. Reactor Vessel Water Level - Low, Level 3	S	M	R ^(g)	1, 2
5. Reactor Vessel Water Level - High, Level 8	S	M	R ^(g)	1
6. Main Steam Line Isolation Valve - Closure	NA	M	R	1
7. Main Steam Line Radiation - High	S	M	R	1, 2 ^(j)
8. Drywell Pressure - High	S	M	R ^(g)	1, 2 ^(l)

TABLE 4.3.1.1-1 (Continued)

REACTOR PROTECTION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

- (f) The LPRMs shall be calibrated at least once per 1000 effective full power hours (EFPH) using the TIP system.
- (g) Calibrate Rosemount trip unit setpoint at least once per 31 days.
- (h) Verify measured drive flow to be less than or equal to established drive flow at the existing flow control valve position.
- (i) This calibration shall consist of verifying the simulated thermal power time constant to be less than 6.6 seconds.
- (j) This function is not required to be OPERABLE when the reactor pressure vessel head is removed per Specification 3.10.1.
- (k) With any control rod withdrawn. Not applicable to control rods removed per Specification 3.9.10.1 or 3.9.10.2.
- (l) This function is not required to be OPERABLE when DRYWELL INTEGRITY is not required per Specification 3.10.1
- (m) Verify the Turbine Bypass Valves are closed when THERMAL POWER is greater than or equal to 40% RATED THERMAL POWER.
- (n) The CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION shall include the turbine first stage pressure instruments.
- (o) The CHANNEL CALIBRATION shall exclude the flow reference transmitters, these transmitters shall be calibrated at least once per 18 months.

TABLE 4.3.6-1

CONTROL ROD BLOCK INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>TRIP FUNCTION</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL FUNCTIONAL TEST</u>	<u>CHANNEL CALIBRATION</u> ^(a)	<u>OPERATIONAL CONDITIONS IN WHICH SURVEILLANCE REQUIRED</u>
<u>1. ROD PATTERN CONTROL SYSTEM</u>				
a. Low Power Setpoint	S ^(f)	S/U ^{(b)(e)} D ^(c) , M ^{(d)(e)}	SA [#]	1, 2
b. High Power Setpoint	S ^(f)	S/U ^{(b)(e)} D ^(c) , M ^{(d)(e)}	SA [#]	1
<u>2. APRM</u>				
a. Flow Biased Neutron Flux - Upscale	NA	S/U ^(b) , M	SA ^(g)	1
b. Inoperative	NA	S/U ^(b) , M	NA	1, 2, 5
c. Downscale	NA	S/U ^(b) , M	SA	1
d. Neutron Flux - Upscale, Startup	NA	S/U ^(b) , M	SA	2, 5
<u>3. SOURCE RANGE MONITORS</u>				
a. Detector not full in	NA	S/U ^(b) , W	NA	2, 5
b. Upscale	NA	S/U ^(b) , W	SA	2, 5
c. Inoperative	NA	S/U ^(b) , W	NA	2, 5
d. Downscale	NA	S/U ^(b) , W	SA	2, 5
<u>4. INTERMEDIATE RANGE MONITORS</u>				
a. Detector not full in	NA	S/U ^(b) , W	NA	2, 5
b. Upscale	NA	S/U ^(b) , W	SA	2, 5
c. Inoperative	NA	S/U ^(b) , W	NA	2, 5
d. Downscale	NA	S/U ^(b) , W	SA	2, 5
<u>5. SCRAM DISCHARGE VOLUME</u>				
a. Water Level-High	NA	M	R [#]	1, 2, 5*
<u>6. REACTOR COOLANT SYSTEM RECIRCULATION FLOW</u>				
a. Upscale	NA	S/U ^(b) , M	SA ^(g)	1

TABLE 4.3.6-1 (Continued)

CONTROL ROD BLOCK INSTRUMENTATION SURVEILLANCE REQUIREMENTS

NOTES:

- a. Neutron detectors may be excluded from CHANNEL CALIBRATION.
- b. Within 24 hours prior to startup, if not performed within the previous 7 days.
- c. Within one hour prior to control rod movement, unless performed within the previous 24 hours, and as each power range above the RPCS low power setpoint is entered for the first time during any 24 hour period during power increase or decrease.
- d. At least once per 31 days while operation continues within a given power range above the RPCS low power setpoint.
- e. Includes reactor manual control multiplexing system input.
- f. Verify the Turbine Bypass valves are closed when THERMAL POWER is greater than 20% RATED THERMAL POWER.

* With any control rod withdrawn. Not applicable to control rods removed per Specification 3.9.10.1 or 3.9.10.2.

Calibrate trip unit setpoint once per 31 days.

9. The CHANNEL CALIBRATION shall exclude the flow reference transmitters, these transmitters shall be calibrated at least once per 18 months.