

TABLE 3.3.6-1 (Continued)

CONTROL ROD WITHDRAWAL BLOCK INSTRUMENTATION

ACTION STATEMENTS

- ACTION 60 - Declare the RBM inoperable and take the ACTION required by Specification 3.1.4.3.
- ACTION 61 - With the number of OPERABLE channels one or more less than required by the Minimum OPERABLE Channels per Trip Function requirement, place at least one inoperable channel in the tripped condition within one hour.
- ACTION 62 - With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip Function requirement, place the inoperable channel in the tripped condition within one hour.
- ACTION 63 - With the number of OPERABLE channels less than required by the Minimum OPERABLE Channels per Trip Function requirement, initiate a rod block.

NOTES

- \* With THERMAL POWER  $\geq$  30% of RATED THERMAL POWER.
- \*\* With more than one control rod withdrawn. Not applicable to control rods removed per Specification 3.9.10.1 or 3.9.10.2.
- \*\*\* These channels are not required when sixteen or fewer fuel assemblies, adjacent to the SRMs, are in the core.
- (a) The RBM shall be automatically bypassed when a peripheral control rod is selected or the reference APRM channel indicates less than 30% of RATED THERMAL POWER.
- (b) This function shall be automatically bypassed if detector count rate is  $>$  100 cps or the IRM channels are on range 3 or higher.
- (c) This function is automatically bypassed when the associated IRM channels are on range 8 or higher.
- (d) This function is automatically bypassed when the IRM channels are on range 3 or higher.
- (e) This function is automatically bypassed when the IRM channels are on range 1.
- (f) Required to be OPERABLE only prior to and during shutdown margin demonstrations as performed per Specification 3.10.3.

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TABLE 3.3.6-2

CONTROL ROD BLOCK INSTRUMENTATION SETPOINTS

| <u>TRIP FUNCTION</u>                          | <u>TRIP SETPOINT</u>                          | <u>ALLOWABLE VALUE</u>                        |
|---|---|---|
| 1. <u>ROD BLOCK MONITOR</u> ****              |   |   |
| a. Upscale                                    |   |   |
| 1) During two recirculation loop operation    |   |   |
| a. Flow Biased*                               | $\leq 0.66 W + (N-66)\%$ , with a maximum of, | $\leq 0.66 W + (N-63)\%$ , with a maximum of, |
| b. High Flow Clamped                          | $\leq N\%$                                    | $\leq (N+3)\%$                                |
| 2) During single recirculation loop operation |   |   |
| a. Flow Biased*                               | $\leq 0.66 W + (N-72)\%$ , with a maximum of, | $\leq 0.66 W + (N-69)\%$ , with a maximum of, |
| b. High Flow Clamped                          | $\leq N\%$                                    | $\leq (N+3)\%$                                |
| b. Inoperative                                | N.A.  | N.A.  |
| c. Downscale                                  | $> 5\%$ of RATED THERMAL POWER                | $> 3\%$ of RATED THERMAL POWER                |
| 2. <u>APRM</u>                                |   |   |
| a. Flow Biased Neutron Flux - Upscale         |   |   |
| 1) During two recirculation loop operation    | $\leq 0.58 W + 50\%^*$                        | $\leq 0.58 W + 53\%^*$                        |
| 2) During single recirculation loop operation | $\leq 0.58 W + 45\%^*$                        | $\leq 0.58 W + 48\%^*$                        |
| b. Inoperative                                | N.A.  | N.A.  |
| c. Downscale                                  | $> 4\%$ of RATED THERMAL POWER                | $> 3\%$ of RATED THERMAL POWER                |
| d. Neutron Flux - Upscale, Startup            | $\leq 12\%$ of RATED THERMAL POWER            | $\leq 14\%$ of RATED THERMAL POWER            |
| 3. <u>SOURCE RANGE MONITORS</u>               |   |   |
| a. Detector not full in                       | N.A.  | N.A.  |
| b. Upscale                                    | $< 1 \times 10^5$ cps                         | $< 1.6 \times 10^5$ cps                       |
| c. Inoperative                                | N.A.  | N.A.  |
| d. Downscale                                  | $> 3$ cps**                                   | $> 1.8$ cps**                                 |