

Table 3.3.1-1 (page 1 of 6)
Reactor Trip System Instrumentation

| FUNCTION | APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS | REQUIRED CHANNELS | CONDITIONS | SURVEILLANCE REQUIREMENTS | ALLOWABLE VALUE |
|---|---|----------------------|------------|---|--|
| 1. Manual Reactor Trip | 1,2 | 2 | B | SR 3.3.1.17 | NA |
| | 3 ^(a) , 4 ^(a) , 5 ^(a) | 2 | B | SR 3.3.1.17 | NA |
| 2. Power Range Neutron Flux | | | | | |
| a. High | 1,2 | 4 | C | SR 3.3.1.1 SR 3.3.1.2 SR 3.3.1.8 SR 3.3.1.9 SR 3.3.1.19 | ≤ 110% RTP |
| b. Low | 1 ^(b) , 2 | 4 | D | SR 3.3.1.1 SR 3.3.1.8 SR 3.3.1.9 SR 3.3.1.19 | ≤ 26% RTP |
| 3. Power Range Neutron Flux - High Positive Rate | 1,2 | 4 | D | SR 3.3.1.8 SR 3.3.1.14 | ≤ 5.5% RTP with time constant ≥ 2 sec |
| 4. Intermediate Range Neutron Flux | 1 ^(b) , 2 ^(c) | 2 | E, F | SR 3.3.1.1 SR 3.3.1.11 SR 3.3.1.14 | ≤ 30% RTP |
| 5. Source Range Neutron Flux | 2 ^(d) | 2 | G, H | SR 3.3.1.1 SR 3.3.1.11 SR 3.3.1.14 | ≤ 1.3E5 cps |
| | 3 ^(a) , 4 ^(a) , 5 ^(a) | 2 | H, I | SR 3.3.1.1 SR 3.3.1.11 SR 3.3.1.14 | ≤ 1.3E5 cps |

(a) With Rod Control System capable of rod withdrawal or one or more rods not fully inserted.

(b) Below the P-10 (Power Range Neutron Flux) interlock.

(c) Above the P-6 (Intermediate Range Neutron Flux) interlock.

(d) Below the P-6 (Intermediate Range Neutron Flux) interlock.

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| | 3 ^(a) , 4 ^(a) , 5 ^(a) | 2 | B | SR 3.3.1.17 | NA |
| 2. Power Range Neutron Flux | | | | | |
| a. High | 1,2 | 4 | C | SR 3.3.1.1 SR 3.3.1.2 SR 3.3.1.8 SR 3.3.1.9 SR 3.3.1.19 | ≤ 110% RTP |
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| 3. Power Range Neutron Flux - High Positive Rate | 1,2 | 4 | D | SR 3.3.1.8 SR 3.3.1.14 | ≤ 5.5% RTP with time constant ≥ 2 sec |
| 4. Intermediate Range Neutron Flux | 1 ^(b) , 2 ^(c) | 2 | E, F | SR 3.3.1.1 SR 3.3.1.11 SR 3.3.1.14 | ≤ 30% RTP |
| 5. Source Range Neutron Flux | 2 ^(d) | 2 | G, H | SR 3.3.1.1 SR 3.3.1.11 SR 3.3.1.14 | ≤ 1.3E5 cps |
| | 3 ^(a) , 4 ^(a) , 5 ^(a) | 2 | H, I | SR 3.3.1.1 SR 3.3.1.11 SR 3.3.1.14 | ≤ 1.3E5 cps |

(a) With Rod Control System capable of rod withdrawal or one or more rods not fully inserted.

(b) Below the P-10 (Power Range Neutron Flux) interlock.

(c) Above the P-6 (Intermediate Range Neutron Flux) interlock.

(d) Below the P-6 (Intermediate Range Neutron Flux) interlock.