

Enclosure 3

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Table 4.1-1

Reactor Protection System (RPS) Instrumentation Functional Test, Functional Test Minimum Frequency, and Calibration Minimum Frequency

| Scram Number (a) | Source of Scram Trip Signal | Group (b) | Instrument Check Minimum Frequency | Instrument Functional Test Minimum Frequency (c) | Instrument Calibration Minimum Frequency |
|---------------------|--|--------------|---------------------------------------|--|---|
| 1 | Mode Switch in SHUTDOWN | A | NA | Once/Operating Cycle | Not Applicable |
| 2 | Manual Scram | A | NA | Once/week | Not Applicable |
| 3 | IRM High High Flux | C | D | Once/Week (e)(l)(n) | Once/Operating Cycle |
| | Inoperative | C | NA | Once/week (e) | NA |
| 4 | Reactor Vessel Steam Dome Pressure - High | D | S | Every 3 months | Once/Operating Cycle |
| 5 | Drywell Pressure - High | D | S | Every 3 months | Once/Operating Cycle |
| 6 | Reactor Vessel Water Level - Low (Level 3) | D | S | Every 3 months (g) | Once/Operating Cycle |
| 7 | Scram Discharge Volume High High Level | | | | |
| | a. Float Switches | A | NA | Once/Operating Cycle | (h) |
| | b. Thermal Level Sensors | B | NA | Every 3 months | Once/Operating Cycle |
| 8 | APRM Fixed High-High Flux | B | S | Every 3 months (e)(l) | Once/Week (p),SA |
| | Inoperable | B | NA | Every 3 months (e) | NA |
| | Downscale | B | NA | Once/Week(e) | NA |
| | Flow Reference Simulated Thermal Power Monitor | B | S | Every 3 months (l) | Once/Week (p){q}, SA |
| | 15% Flux | C | S | Once/Week during refueling (l)(m)(n) | Once/Week during refueling (l)(m) |
| | LPRM | B | D | NA | Every 1000 Effective Full Power Hours |

Table 4.2-7

Check, Functional Test, and Calibration Minimum Frequency for
Neutron Monitoring Instrumentation Which Initiates
Control Rod Blocks

| Ref. No. (a) | Instrument | Instrument Check Minimum Frequency (b) | Instrument Functional Test Minimum Frequency (c) | Instrument Calibration Minimum Frequency |
|--------------------|---|--|--|---|
| 1 | <u>SOURCE RANGE MONITORS</u> | | | |
| | a. Detector not full in | NA | S/U ^(ff) , W | NA |
| | b. Upscale | NA | S/U ^(ff) , W | R |
| | c. Inoperative | NA | S/U ^(ff) , W | NA |
| | d. Downscale | NA | S/U ^(ff) , W | R |
| 2 | <u>INTERMEDIATE RANGE MONITORS</u> | | | |
| | a. Detector not full in | NA | S/U ^(ff) , W ^(e) | NA |
| | b. Upscale | NA | S/U ^(ff) , W ^(e) | R |
| | c. Inoperative | NA | S/U ^(ff) , W ^(e) | NA |
| | d. Downscale | NA | S/U ^(ff) , W ^(e) | R |
| 3 | <u>APRM</u> | | | |
| | a. Flow Referenced Simulated Thermal Power-Upscale | NA | S/U ^(ff) , Q | R |
| | b. Inoperative | NA | S/U ^(ff) , Q | NA |
| | c. Downscale | NA | S/U ^(ff) , Q | R |
| | d. Neutron Flux - High, 12% | NA | S/U ^(ff) , Q | R |
| 4 | <u>ROD BLOCK MONITOR</u> | | | |
| | a. Upscale | NA | S/U ^(ff) , Q | R |
| | b. Inoperative | NA | S/U ^(ff) , Q | NA |
| | c. Downscale | NA | S/U ^(ff) , Q | R |
| 5 | <u>SCRAM DISCHARGE VOLUME</u> | | | |
| | a. Water Level-High | NA | R | R |

Notes for Table 4.2-7

- a. The column titled "Ref. No." is only for convenience so that a one-to-one relationship can be established between items in Table 4.2-7 and items in Table 3.2-7.
- b. Deleted.

TABLE 4.3.1-1

REACTOR PROTECTION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

| FUNCTIONAL UNIT | CHANNEL CHECK | CHANNEL FUNCTIONAL TEST | CHANNEL CALIBRATION ^(a) | OPERATIONAL CONDITIONS IN WHICH SURVEILLANCE REQUIRED |
|--|---------------|--|---------------------------------------|---|
| 1. Intermediate Range Monitors: | | | | |
| a. Neutron Flux - High | D | S/U ^{(b)(c)} | R | 2 |
| | D | W | R | 3, 4, 5 |
| b. Inoperative | NA | W | NA | 2, 3, 4, 5 |
| 2. Average Power Range Monitor: | | | | |
| a. Neutron Flux - Upscale, 15% | S | S/U ^{(b)(c)} , W ^(d) | S/U ^(b) , W ^(d) | 2 |
| | S | W | W | 5 |
| b. Flow Referenced Simulated Thermal Power - Upscale | S | S/U ^(b) , Q | W ^{(e)(f)} , SA | 1 |
| c. Fixed Neutron Flux - Upscale, 118% | S | S/U ^(b) , Q | W ^(e) , SA | 1 |
| d. Inoperative | NA | Q | NA | 1, 2, 5 |
| e. Downscale | NA | W | NA | 1 |
| f. LPRM | D | NA | ^(g) | 1, 2, 5 |
| 3. Reactor Vessel Steam Dome Pressure - High | S | Q | R | 1, 2 |
| 4. Reactor Vessel Water Level - Low (Level 3) | S | Q | R | 1, 2 |
| 5. Main Steam Line Isolation Valve - Closure | NA | Q | R | 1 |
| 6. Main Steam Line Radiation - High | D | Q ⁽ⁱ⁾ | R | 1, 2 |
| 7. Drywell Pressure - High | S | Q | R | 1, 2 |
| 8. Scram Discharge Volume Water Level - High | | | | |
| a. Float Switches | NA | R | R ^(h) | 1, 2, 5 |
| b. Thermal Level Switches | NA | Q | R | 1, 2, 5 |

TABLE 4.3.5-1

CONTROL ROD WITHDRAWAL BLOCK INSTRUMENTATION SURVEILLANCE REQUIREMENTS

| <u>TRIP FUNCTION</u> | <u>CHANNEL CHECK</u> | <u>CHANNEL FUNCTIONAL TEST</u> | <u>CHANNEL CALIBRATION^(a)</u> | <u>OPERATIONAL CONDITIONS IN WHICH SURVEILLANCE REQUIRED</u> |
|--|--------------------------|--|--|--|
| 1. APRM: | | | | |
| a. Flow Referenced Simulated Thermal Power-Upscale | NA | S/U ^(b) , Q | R | 1 |
| b. Inoperative | NA | S/U ^(b) , Q | NA | 1, 2, 5 |
| c. Downscale | NA | S/U ^(b) , Q | R | 1 |
| d. Neutron Flux - High, 12% | NA | S/U ^(b) , Q | R | 2, 5 |
| 2. Rod Block Monitor: | | | | |
| a. Upscale | NA | S/U ^(b) , Q | R | 1 ^(d) |
| b. Inoperative | NA | S/U ^(b) , Q | NA | 1 ^(d) |
| c. Downscale | NA | S/U ^(b) , Q | R | 1 ^(d) |
| 3. Source Range Monitors: | | | | |
| a. Detector not full in | NA | S/U ^(b) , W | NA | 2, 5 |
| b. Upscale | NA | S/U ^(b) , W | R | 2, 5 |
| c. Inoperative | NA | S/U ^(b) , W | NA | 2, 5 |
| d. Downscale | NA | S/U ^(b) , W | R | 2, 5 |
| 4. Intermediate Range Monitors: | | | | |
| a. Detector not full in | NA | S/U ^(b) , W ^(c) | NA | 2, 5 |
| b. Upscale | NA | S/U ^(b) , W ^(c) | R | 2, 5 |
| c. Inoperative | NA | S/U ^(b) , W ^(c) | NA | 2, 5 |
| d. Downscale | NA | S/U ^(b) , W ^(c) | R | 2, 5 |
| 5. Scram Discharge Volume: | | | | |
| a. Water Level-High | NA | R | R | 1, 2, 5 ^(e) |

Table 4.1-1

Reactor Protection System (RPS) Instrumentation Functional Test, Functional Test Minimum Frequency, and Calibration Minimum Frequency

| Scram Number (a) | Source of Scram Trip Signal | Group (b) | Instrument Check Minimum Frequency | Instrument Functional Test Minimum Frequency (c) | Instrument Calibration Minimum Frequency |
|---------------------|--|--------------|---------------------------------------|--|---|
| 1 | Mode Switch in SHUTDOWN | A | NA | Once/Operating Cycle | Not Applicable |
| 2 | Manual Scram | A | NA | Once/week | Not Applicable |
| 3 | IRM High High Flux | C | D | Once/Week (e)(l)(n) | Once/Operating Cycle |
| | Inoperative | C | NA | Once/week (e) | NA |
| 4 | Reactor Vessel Steam Dome Pressure - High | D | S | Every 3 months | Once/Operating Cycle |
| 5 | Drywell Pressure - High | D | S | Every 3 months | Once/Operating Cycle |
| 6 | Reactor Vessel Water Level - Low (Level 3) | D | S | Every 3 months (g) | Once/Operating Cycle |
| 7 | Scram Discharge Volume High High Level | | | <i>Once/Operating Cycle</i> | |
| | a. Float Switches | A | NA | Every 3 months | (h) |
| | b. Thermal Level Sensors | B | NA | Every 3 months | Once/Operating Cycle |
| 8 | APRM Fixed High-High Flux | B | S | Every 3 months (e)(l) | Once/Week (p), SA |
| | Inoperable | B | NA | Every 3 months (e) | NA |
| | Downscale | B | NA | Once/Week(e) | NA |
| | Flow Reference Simulated Thermal Power Monitor | B | S | Every 3 months (l) | Once/Week (p)(q), SA |
| | 15% Flux | C | S | Once/Week during refueling (l)(m)(n) | Once/Week during refueling (l)(m) |
| | LPRM | B | D | NA | Every 1000 Effective Full Power Hours |

HATCH - UNIT 1

3.1-7

Amendment No. 69, 97, 102, 105, 121, 163

DOCK 93-04

Table 4.2-7

Check, Functional Test, and Calibration Minimum Frequency for
Neutron Monitoring Instrumentation Which Initiates
Control Rod Blocks

| Ref. No. (a) | Instrument | Instrument Check Minimum Frequency (b) | Instrument Functional Test Minimum Frequency (c) | Instrument Calibration Minimum Frequency (d) |
|--------------------|---|--|--|--|
| 1 | <u>SOURCE RANGE MONITORS</u> | | | |
| | a. Detector not full in | NA | S/U ^(f) , W | NA |
| | b. Upscale | NA | S/U ^(f) , W | R |
| | c. Inoperative | NA | S/U ^(f) , W | NA |
| | d. Downscale | NA | S/U ^(f) , W | R |
| 2 | <u>INTERMEDIATE RANGE MONITORS</u> | | | |
| | a. Detector not full in | NA | S/U ^(f) , W ^(a) | NA |
| | b. Upscale | NA | S/U ^(f) , W ^(a) | R |
| | c. Inoperative | NA | S/U ^(f) , W ^(a) | NA |
| | d. Downscale | NA | S/U ^(f) , W ^(a) | R |
| 3 | <u>APRM</u> | | | |
| | a. Flow Referenced Simulated Thermal Power-Upscale | NA | S/U ^(f) , Q | R |
| | b. Inoperative | NA | S/U ^(f) , Q | NA |
| | c. Downscale | NA | S/U ^(f) , Q | R |
| | d. Neutron Flux - High, 12% | NA | S/U ^(f) , Q | R |
| 4 | <u>ROD BLOCK MONITOR</u> | | | |
| | a. Upscale | NA | S/U ^(f) , Q | R |
| | b. Inoperative | NA | S/U ^(f) , Q | NA |
| | c. Downscale | NA | S/U ^(f) , Q | R |
| 5 | <u>SCRAM DISCHARGE VOLUME</u> | | | |
| | a. Water Level-High | NA | OR | R |

Notes for Table 4.2-7

a. The column titled "Ref. No." is only for convenience so that a one-to-one relationship can be established between items in Table 4.2-7 and items in Table 3.2-7.

b. Deleted.

DOCR 93-04

TABLE 4.3.1-1

REACTOR PROTECTION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

| FUNCTIONAL UNIT | CHANNEL CHECK | CHANNEL FUNCTIONAL TEST | CHANNEL CALIBRATION(*) | OPERATIONAL CONDITIONS IN WHICH SURVEILLANCE REQUIRED |
|--|---------------|--|---------------------------------------|---|
| 1. Intermediate Range Monitors: | | | | |
| a. Neutron Flux - High | D | S/U ^{(b)(c)} | R | 2 |
| | D | W | R | 3, 4, 5 |
| b. Inoperative | NA | W | NA | 2, 3, 4, 5 |
| 2. Average Power Range Monitor: | | | | |
| a. Neutron Flux - Upscale, 15% | S | S/U ^{(b)(c)} , W ^(d) | S/U ^(b) , W ^(d) | 2 |
| | S | W | W | 5 |
| b. Flow Referenced Simulated Thermal Power - Upscale | S | S/U ^(b) , Q | W ^{(e)(f)} , SA | 1 |
| c. Fixed Neutron Flux - Upscale, 118% | S | S/U ^(b) , Q | W ^(e) , SA | 1 |
| d. Inoperative | NA | Q | NA | 1, 2, 5 |
| e. Downscale | NA | W | NA | 1 |
| f. LPRM | D | NA | (g) | 1, 2, 5 |
| 3. Reactor Vessel Steam Dome Pressure - High | S | Q | R | 1, 2 |
| 4. Reactor Vessel Water Level - Low (Level 3) | S | Q | R | 1, 2 |
| 5. Main Steam Line Isolation Valve - Closure | NA | Q | R | 1 |
| 6. Main Steam Line Radiation - High | D | Q ^(h) | R | 1, 2 |
| 7. Drywell Pressure - High | S | Q | R | 1, 2 |
| 8. Scram Discharge Volume Water Level - High | NA | Q | R^(h) | 1, 2, 5 |
| a. Float Switches | NA | R | R ^(h) | 1, 2, 5 |
| b. Thermal level switches | NA | Q | R | 1, 2, 5 |

DOCR 93-04

TABLE 4.3.5-1

CONTROL ROD WITHDRAWAL BLOCK INSTRUMENTATION SURVEILLANCE REQUIREMENTS

| <u>TRIP FUNCTION</u> | <u>CHANNEL CHECK</u> | <u>CHANNEL FUNCTIONAL TEST</u> | <u>CHANNEL CALIBRATION^(a)</u> | <u>OPERATIONAL CONDITIONS IN WHICH SURVEILLANCE REQUIRED</u> |
|--|--------------------------|--|--|--|
| 1. APRM: | | | | |
| a. Flow Referenced Simulated Thermal Power Upscale | NA | S/U ^(b) , Q | R | 1 |
| b. Inoperative | NA | S/U ^(b) , Q | NA | 1, 2, 5 |
| c. Downscale | NA | S/U ^(b) , Q | R | 1 |
| d. Neutron Flux - High, 12% | NA | S/U ^(b) , Q | R | 2, 5 |
| 2. Rod Block Monitor: | | | | |
| a. Upscale | NA | S/U ^(b) , Q | R | 1 ^(d) |
| b. Inoperative | NA | S/U ^(b) , Q | NA | 1 ^(d) |
| c. Downscale | NA | S/U ^(b) , Q | R | 1 ^(d) |
| 3. Source Range Monitors: | | | | |
| a. Detector not full in | NA | S/U ^(b) , W | NA | 2, 5 |
| b. Upscale | NA | S/U ^(b) , W | R | 2, 5 |
| c. Inoperative | NA | S/U ^(b) , W | NA | 2, 5 |
| d. Downscale | NA | S/U ^(b) , W | R | 2, 5 |
| 4. Intermediate Range Monitors: | | | | |
| a. Detector not full in | NA | S/U ^(b) , W ^(c) | NA | 2, 5 |
| b. Upscale | NA | S/U ^(b) , W ^(c) | R | 2, 5 |
| c. Inoperative | NA | S/U ^(b) , W ^(c) | NA | 2, 5 |
| d. Downscale | NA | S/U ^(b) , W ^(c) | R | 2, 5 |
| 5. Scram Discharge Volume: | | | | |
| a. Water Level-High | NA | R | R | 1, 2, 5 ^(a) |

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