

Attachment A

Marked-Up Technical Specification Pages

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\*No changes have been made to this page. It is included for information only.

**INSERT A:**

- d.# With one or more SDV vent or drain lines with one valve inoperable,
  - 1. Isolate## the associated line within 7 days.
  - 2. Otherwise, be in HOT SHUTDOWN within the next 12 hours.
- e.# With one or more SDV vent or drain lines with both valves inoperable,
  - 1. Isolate## the associated line within 8 hours.
  - 2. Otherwise, be in HOT SHUTDOWN within the next 12 hours.

**INSERT B:**

#Separate Action statement entry is allowed for each SDV vent and drain line.

##An isolated line may be unisolated under administrative control to allow draining and venting of the SDV.

No Changes  
For Information Only

## REACTIVITY CONTROL SYSTEM

### 3/4.1.3 CONTROL RODS

#### CONTROL ROD OPERABILITY

#### LIMITING CONDITION FOR OPERATION

3.1.3.1 All control rods shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.

#### ACTION:

- a. With one control rod inoperable due to being immovable, as a result of excessive friction or mechanical interference, or known to be untrippable:
  1. Within 1 hour:
    - a) Verify that the inoperable control rod, if withdrawn, is separated from all other inoperable control rods by at least two control cells in all directions.
    - b) Disarm the associated directional control valves\* either:
      - 1) Electrically, or
      - 2) Hydraulically by closing the drive water and exhaust water isolation valves.
    - c) Comply with Surveillance Requirement 4.1.1.c.
  2. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours.
  3. Restore the inoperable control rod to OPERABLE status within 48 hours or be in at least HOT SHUTDOWN within the next 12 hours.
- b. With one or more control rods trippable but inoperable for causes other than addressed in ACTION a, above:
  1. If the inoperable control rod(s) is withdrawn:
    - a) Immediately verify:
      - 1) That the inoperable withdrawn control rod(s) is separated from all other inoperable withdrawn control rod(s) by at least two control cells in all directions, and
      - 2) The insertion capability of the inoperable withdrawn control rod(s) by inserting the control rod(s) at least one notch by drive water pressure within the normal operating range\*\*.
    - b) Otherwise, insert the inoperable withdrawn control rod(s) and disarm the associated directional control valves\* either:
      - 1) Electrically, or
      - 2) Hydraulically by closing the drive water and exhaust water isolation valves

\*May be rearmed intermittently, under administrative control, to permit testing associated with restoring the control rod to OPERABLE status.

\*\*The inoperable control rod may then be withdrawn to a position no further withdrawn than its position when found to be inoperable.

## REACTIVITY CONTROL SYSTEM

### LIMITING CONDITION FOR OPERATION (Continued)

#### ACTION (Continued)

2. If the inoperable control rod(s) is inserted:
  - a) Within 1 hour disarm the associated directional control valves\* either:
    - 1) Electrically, or
    - 2) Hydraulically by closing the drive water and exhaust water isolation valves.
  - b) Otherwise, be in at least HOT SHUTDOWN within the next 12 hours.

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3. The provisions of Specification 3.0.4 are not applicable.

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- c. With more than 8 control rods inoperable, be in at least HOT SHUTDOWN within 12 hours.

Insert A

#### SURVEILLANCE REQUIREMENTS

4.1.3.1.1 The scram discharge volume drain and vent valves shall be demonstrated OPERABLE by:

- a. At least once per 31 days verifying each valve to be open\*\*, and
- b. At least once per 92 days cycling each valve through at least one complete cycle of full travel.

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4.1.3.1.2 When above the low power setpoint of the RWM and RSCS, all withdrawn control rods not required to have their directional control valves disarmed electrically or hydraulically shall be demonstrated OPERABLE by moving each control rod at least one notch:

- a. At least once per 7 days, and
- b. At least once per 24 hours when any control rod is immovable as a result of excessive friction or mechanical interference.

4.1.3.1.3 All control rods shall be demonstrated OPERABLE by performance of Surveillance Requirements 4.1.3.2, 4.1.3.4, 4.1.3.5, 4.1.3.6 and 4.1.3.7.

\*May be disarmed intermittently, under administrative control, to permit testing associated with restoring the control rod to OPERABLE status.

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\*\*These valves may be closed intermittently for testing under administrative control.

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## REACTIVITY CONTROL SYSTEM

### SURVEILLANCE REQUIREMENTS (Continued)

4.1.3.1.4 The scram discharge volume shall be determined OPERABLE by demonstrating:

- a. The scram discharge volume drain and vent valves OPERABLE, when control rods are scram tested from a normal control rod configuration of less than or equal to 50% ROD DENSITY at least once per 18 months\* by verifying that the drain and vent valves:
  1. Close within 30 seconds after receipt of a signal for control rods to scram, and
  2. Open after the scram signal is reset.
- b. Proper float response by performance of a CHANNEL FUNCTIONAL TEST of the scram discharge volume scram and control rod block level instrumentation after each scram from a pressurized condition.

\*The provisions of Specification 4.0.4 are not applicable for entry into OPERATIONAL CONDITION 2 provided the surveillance is performed within 12 hours after achieving less than or equal to 50% ROD DENSITY.



REACTIVITY CONTROL SYSTEM

3/4.1.3 CONTROL RODS

CONTROL ROD OPERABILITY

LIMITING CONDITION FOR OPERATION

No Changes  
For Information Only

3.1.3.1 All control rods shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1, and 2.

ACTION:

- a. With one control rod inoperable due to being immovable, as a result of excessive friction or mechanical interference, or known to be untrippable:
  1. Within 1 hour:
    - a) Verify that the inoperable control rod, if withdrawn, is separated from all other inoperable control rods by at least two control cells in all directions.
    - b) Disarm the associated directional control valves\* either:
      - 1) Electrically, or
      - 2) Hydraulically by closing the drive water and exhaust water isolation valves.
    - c) Comply with Surveillance Requirement 4.1.1.c.
  2. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours.
  3. Restore the inoperable control rod to OPERABLE status within 48 hours or be in at least HOT SHUTDOWN within the next 12 hours.
- b. With one or more control rods trippable but inoperable for causes other than addressed in ACTION a, above:
  1. If the inoperable control rod(s) is withdrawn:
    - a) Immediately verify:
      - 1) That the inoperable withdrawn control rod(s) is separated from all other inoperable withdrawn control rod(s) by at least two control cells in all directions, and
      - 2) The insertion capability of the inoperable withdrawn control rod(s) by inserting the control rod(s) at least one notch by drive water pressure within the normal operating range\*\*.
    - b) Otherwise, insert the inoperable withdrawn control rod(s) and disarm the associated directional control valves\* either:
      - 1) Electrically, or
      - 2) Hydraulically by closing the drive water and exhaust water isolation valves

\*May be rearmed intermittently, under administrative control, to permit testing associated with restoring the control rod to OPERABLE status.

\*\*The inoperable control rod may then be withdrawn to a position no further withdrawn than its position when found to be inoperable.

## REACTIVITY CONTROL SYSTEM

### LIMITING CONDITION FOR OPERATION (Continued)

#### ACTION (Continued)

2. If the inoperable control rod(s) is inserted:
  - a) Within 1 hour disarm the associated directional control valves\* either:
    - 1) Electrically, or
    - 2) Hydraulically by closing the drive water and exhaust water isolation valves.
  - b) Otherwise, be in at least HOT SHUTDOWN within the next 12 hours.
3. The provisions of Specification 3.0.4 are not applicable.
- c. With more than 8 control rods inoperable, be in at least HOT SHUTDOWN within 12 hours.

Insert A

#### SURVEILLANCE REQUIREMENTS

4.1.3.1.1 The scram discharge volume drain and vent valves shall be demonstrated OPERABLE by:

- a. At least once per 31 days verifying each valve to be open\*\*, and
- b. At least once per 92 days cycling each valve through at least one complete cycle of full travel.

4.1.3.1.2 When above the low power setpoint of the RWM and RSCS, all withdrawn control rods not required to have their directional control valves disarmed electrically or hydraulically shall be demonstrated OPERABLE by moving each control rod at least one notch:

- a. At least once per 7 days, and
- b. At least once per 24 hours when any control rod is immovable as a result of excessive friction or mechanical interference.

4.1.3.1.3 All control rods shall be demonstrated OPERABLE by performance of Surveillance Requirements 4.1.3.2, 4.1.3.4, 4.1.3.5, 4.1.3.6, and 4.1.3.7.

Insert B

\*May be rearmed intermittently, under administrative control, to permit testing associated with restoring the control rod to OPERABLE status.

\*\*These valves may be closed intermittently for testing under administrative control.

## REACTIVITY CONTROL SYSTEM

### SURVEILLANCE REQUIREMENTS (Continued)

4.1.3.1.4 The scram discharge volume shall be determined OPERABLE by demonstrating:

- a. The scram discharge volume drain and vent valves OPERABLE, when control rods are scram tested from a normal control rod configuration of less than or equal to 50% ROD DENSITY at least once per 18 months\* by verifying that the drain and vent valves:
  - a. 1. Close within 30 seconds after receipt of a signal for control rods to scram, and
  - a. 2. Open after the scram signal is reset.
- b. Proper float and level sensor response by performance of a CHANNEL FUNCTIONAL TEST of the scram discharge volume scram and control rod block level instrumentation at least once per 31 days.

\*The provisions of Specification 4.0.4 are not applicable for entry into OPERATIONAL CONDITION 2 provided the surveillance is performed within 12 hours after achieving less than or equal to 50% ROD DENSITY.