

### 3/4.5 EMERGENCY CORE COOLING SYSTEMS (ECCS)

#### ACCUMULATORS

##### LIMITING CONDITION FOR OPERATION

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3.5.1 Each reactor coolant system accumulator shall be OPERABLE with:

- a. The isolation valve open,
- b. A contained volume of between 6,223 and 6,500 gallons of borated water,
- c. A boron concentration of between 2,200 and 2,500 ppm, and,
- d. A nitrogen cover-pressure of between 595.5 and 647.5 psig.

APPLICABILITY: MODES 1, 2 and 3\*.

##### ACTION:

- a. With one accumulator inoperable, except as a result of a closed isolation valve or boron concentration outside the required limits, restore the inoperable accumulator to OPERABLE status within 24 hours or be in HOT SHUTDOWN within the next 12 hours.
- b. With one accumulator inoperable due to the isolation valve being closed, either immediately open the isolation valve or be in HOT STANDBY within 24 hours and be in HOT SHUTDOWN within the next 12 hours.
- c. With the boron concentration of one accumulator outside the required limits, restore the boron concentration to within the required limits within 72 hours or be in at least HOT STANDBY within the next 6 hours and reduce pressurizer pressure to less than or equal to 1000 psig within the next 6 hours.

##### SURVEILLANCE REQUIREMENTS

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4.5.1 Each accumulator shall be demonstrated OPERABLE:

- a. At least once per 12 hours by:
  1. Verifying the water level and nitrogen cover-pressure in the tanks, and
  2. Verifying that each accumulator isolation valve is open.

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\* Pressurizer Pressure above 1000 psig.

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#### ACCUMULATORS

##### LIMITING CONDITION FOR OPERATION

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3.5.1 Each reactor coolant system accumulator shall be OPERABLE with:

- a. The isolation valve open,
- b. A contained volume of between 6223 and 6500 gallons of borated water,
- c. A boron concentration of between 2200 and 2500 ppm, and
- d. A nitrogen cover-pressure of between 595.5 and 647.5 psig.

APPLICABILITY: MODES 1, 2 and 3\*.

##### ACTION:

- a. With one accumulator inoperable, except as a result of a closed isolation valve or boron concentration outside the required limits, restore the inoperable accumulator to OPERABLE status within 24 hours or be in HOT SHUTDOWN within the next 12 hours.
- b. With one accumulator inoperable due to the isolation valve being closed, either immediately open the isolation valve or be in HOT STANDBY within 24 hours and be in HOT SHUTDOWN within the next 12 hours.
- c. With the boron concentration of one accumulator outside the required limits, restore the boron concentration to within the required limits within 72 hours or be in at least HOT STANDBY within the next 6 hours and reduce pressurizer pressure to less than or equal to 1000 psig within the next 6 hours.

##### SURVEILLANCE REQUIREMENTS

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4.5.1 Each accumulator shall be demonstrated OPERABLE:

- a. At least once per 12 hours by:
  1. Verifying the water level and nitrogen cover-pressure in the tanks, and
  2. Verifying that each accumulator isolation valve is open.

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\* Pressurizer Pressure above 1000 psig.