

3/4.5 EMERGENCY CORE COOLING SYSTEMS

3/4.5.1 ACCUMULATORS

COLD LEG INJECTION ACCUMULATORS

LIMITING CONDITION FOR OPERATION

---

3.5.1.1 Each cold leg injection accumulator shall be OPERABLE with:

- a. The isolation valve open,
- b. A contained borated water volume of between 7615 and 7960 gallons of borated water,
- c. A boron concentration in accordance with the requirements below,

<u>Number of TPBARs#</u>	<u>Minimum Boron</u>	<u>Maximum Boron</u>
0	2400 ppm	3800 ppm
1-250	2700 ppm	3800 ppm
251-500	2900 ppm	3800 ppm
501-1000	3200 ppm	3800 ppm
1001-2256	3500 ppm	3800 ppm

- d. A nitrogen cover-pressure of between 624 and 668 psig, and
- e. Power removed from isolation valve when RCS pressure is above 2000 psig.

APPLICABILITY: MODES 1, 2 and 3.\*

ACTION:

- a. With one cold leg injection accumulator inoperable, except as a result of boron concentration not within limits, restore the inoperable accumulator to OPERABLE status within one hour or be in at least HOT STANDBY within the next 6 hours and reduce pressurizer pressure to 1000 psig or less within the following 6 hours.
- b. With one cold leg injection accumulator inoperable due to the boron concentration not within limits, restore boron concentration to within limits within 72 hours or be in at least HOT STANDBY within the next 6 hours and reduce pressurizer pressure to 1000 psig or less within the following 6 hours.

\* Pressurizer pressure above 1000 psig.

# The number of TPBARs in the reactor core is contained in the COLR for each fuel cycle.

EMERGENCY CORE COOLING SYSTEMS

3/4.5.5 REFUELING WATER STORAGE TANK

LIMITING CONDITION FOR OPERATION

---

3.5.5 The refueling water storage tank (RWST) shall be OPERABLE with:

- a. A contained borated water volume of between 370,000 and 375,000 gallons,
- b. A boron concentration in accordance with the requirements below,

<u>Number of TPBARs#</u>	<u>Minimum Boron</u>	<u>Maximum Boron</u>
0	2500 ppm	3800 ppm
1-250	2800 ppm	3800 ppm
251-500	3000 ppm	3800 ppm
501-1000	3300 ppm	3800 ppm
1001-2256	3600 ppm	3800 ppm

- c. A minimum solution temperature of 60°F, and
- d. A maximum solution temperature of 105°F.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With the RWST inoperable, restore the tank to OPERABLE status within 1 hour or be in at least HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

---

4.5.5 The RWST shall be demonstrated OPERABLE:

- a. At least once per 7 days by:
  - 1. Verifying the contained borated water volume in the tank, and
  - 2. Verifying the boron concentration of the water.
- b. At least once per 24 hours by verifying the RWST temperature.

\*The number of TPBARs in the reactor core is contained in the COLR for each fuel cycle.