

3/4.4 REACTOR COOLANT SYSTEM

3/4.4.1 *RECIRCULATION SYSTEM

RECIRCULATION LOOPS

LIMITING CONDITIONS FOR OPERATION

3.4.1.1 Two reactor coolant system recirculation loops shall be in operation with:

- a. Total core flow greater than or equal to 45% of rated core flow, or
- b. THERMAL POWER within the unrestricted zone of Figure 3.4.1.1-1.

APPLICABILITY: OPERATIONAL CONDITIONS 1* and 2*.

ACTION:

- a. With one reactor coolant system recirculation loop not in operation:
 1. Within four hours:
 - a) Place the recirculation flow control system in the Loop Manual (Position Control) mode, and
 - b) Reduce THERMAL POWER to $\leq 70\%$ of RATED THERMAL POWER, and,
 - c) Increase the MINIMUM CRITICAL POWER RATIO (MCPR) Safety Limit by 0.01 to 1.08*** per Specification 2.1.2, and,
 - d) Reduce the Maximum Average Planar Linear Heat Generation Rate (MAPLHGR) limit per Specification 3.2.1, and,
 - e) Reduce the Average Power Range Monitor (APRM) Scram and Rod Block and Rod Block Monitor Trip Setpoints and Allowable Values to those applicable for single recirculation loop operation per Specifications 2.2.1, 3.2.2 and 3.3.6.
 - f) Reduce the volumetric drive flow rate of the operating recirculation loop to $\leq 41,800^{**}$ gpm.

* See Special Test Exception 3.10.4.

** This value represents the volumetric recirculation loop drive flow which produces 100% core flow at 100% THERMAL POWER.

*** The MCPR Safety Limit of .1.07 will be used through the first operating cycle.

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