

PBAPS
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UNIT 3

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LIMITING CONDITION FOR OPERATION

3.6.F RECIRCULATION PUMPS

1. Following one-pump operation, the discharge valve of the low speed pump may not be opened unless the speed of the faster pump is less than 50% of its rated speed.
2. The requirements applicable to single loop operation as identified in sections 1.1.A, 2.1.A, 2.1.B, 3.5.I & 3.5.K shall be in effect within 24 hours following the removal of one recirculation loop from service, or the unit placed in the Hot Shutdown conditions.
3. Whenever the reactor is in the startup or run modes, two reactor coolant system recirculation loops shall be in operation, except as specified in 3.6.F.4, 3.6.F.5, 3.6.F.6, and 3.6.F.7 below, with:
 - a. Total core flow greater than or equal to 45% of rated core flow, or;
 - b. Thermal Power less than or equal to the limit specified in Figure 3.6.5 (Line A).
4. With only one reactor coolant system recirculation loop operating, immediately initiate action to reduce thermal power and be below the limit specified in Figure 3.6.5 (Line A) or increase core flow to greater than or equal to 45% of rated core flow.

SURVEILLANCE REQUIREMENTS

4.6.F RECIRCULATION PUMPS

1. Establish baseline APRM and LPRM neutron flux noise values for each operating mode at or below the thermal power specified in Figure 3.6.5 (Line A) for the regions for which monitoring is required (Specification 3.6.F.6, Regions 1, 2 or 4) within 2 hours of entering the region for which monitoring is required unless baselining has previously been performed since the last refueling outage.
2. Establish a baseline core plate differential pressure noise value at or below the thermal power specified in Figure 3.6.5 (Line A) and at a total core flow less than or equal to 45% of rated core flow for the regions for which monitoring is required (Specification 3.6.F.7, Regions 2 or 3) within 2 hours of entering the region for which monitoring is required unless baselining has previously been performed since the last refueling outage.

LIMITING CONDITION FOR OPERATIONSURVEILLANCE REQUIREMENTS

3.6.F RECIRCULATION PUMPS

4.6.F RECIRCULATION PUMPS

5. With no reactor coolant system recirculation loops in operation, immediately initiate action to reduce Thermal Power to less than or equal to the limit specified in Figure 3.6.5 (Line A) and if a recirculation loop cannot be returned to service initiate measures to place the unit in Hot Shutdown within the next 12 hours.
6. With two reactor coolant system recirculation loops in operation and total core flow less than 45% of rated core flow and Thermal Power greater than the limit specified in Figure 3.6.5 (Line A) (Region 1), or with only one reactor coolant system recirculation loop operating and the Thermal Power greater than the limit specified in Figure 3.6.5 (Line A) (Regions 1 or 2) or total core flow less than 45% of rated core flow with Thermal Power greater than 35% of Rated Thermal Power (Regions 1 or 4):
 - a. Determine the APRM and LPRM noise levels:
 - 1) Within 1 hour after entering the region for which monitoring is required and at least once per 24 hours, and
 - 2) Within 1 hour after the completion of a Thermal Power increase of at least 5% of Rated Thermal Power.
 - b. With the APRM or LPRM neutron flux noise levels greater than 5% and three times their established baseline noise levels, immediately initiate corrective action to restore the noise levels to within

LIMITING CONDITION FOR OPERATIONSURVEILLANCE REQUIREMENTS

3.6.F RECIRCULATION PUMPS

4.6.F RECIRCULATION PUMPS

the required limits within 2 hours, or reduce thermal power at a rate which would bring the reactor to the hot shutdown condition within the next 12 hours, unless the noise levels are restored within the required limits during this period. Detector levels A and C of one LPRM string per core octant plus detectors A and C of one LPRM string in the center of the core should be monitored.

7. With one reactor coolant system recirculation loop in operation and total core flow greater than 45% of rated core flow (Regions 2 or 3):

- a. Determine the core plate differential pressure noise level:
- 1) At least once per 24 hours, and
 - 2) Within one hour after completion of a core flow increase of at least 5% of rated core flow.
- b. With the core plate differential pressure noise level greater than 1 psi and 1.5 times the established baseline noise level, immediately initiate corrective action to restore the noise level to within the required limits within 2 hours or reduce core flow to less than 45% of rated core flow.

LIMITING CONDITION FOR OPERATIONSURVEILLANCE REQUIREMENTS

3.6.G STRUCTURAL INTEGRITY

The structural integrity of the primary system boundary shall be maintained at the level required by the original acceptance standards throughout the life of the station. The reactor shall be maintained in a Cold Shutdown condition until each indication of a defect has been investigated and evaluated.

4.6.G STRUCTURAL INTEGRITY

The non-destructive inspections listed in Table 4.6.1 shall be performed as specified. The results obtained from compliance with the specification will be evaluated after 5 years and the conclusions of this evaluation will be reviewed with the NRC.

FIGURE 3.6.5
 THERMAL POWER AND CORE FLOW LIMITS OF
 SPECIFICATIONS 3.6.F.3, 3.6.F.4, 3.6.F.5, 3.6.F.6 and 3.6.F.7

