

POWER DISTRIBUTION LIMITSLIMITING CONDITION FOR OPERATION

3.2.2.2  $F_Q(Z)$  shall be limited by the following relationships:

$$F_Q(Z) \leq \frac{2.32}{P} [K(Z)] \text{ for } P > 0.5$$

$$F_Q(Z) \leq [4.64] [K(Z)] \text{ for } P \leq 0.5$$

Where  $P = \frac{\text{THERMAL POWER}}{\text{RATED THERMAL POWER}}$ , and

$K(Z)$  = the function obtained from Figure 3.2-2 for a given core height location.

APPLICABILITY: MODE 1 (Unit 2 Cycle 3).

ACTION:

With  $F_Q(Z)$  exceeding its limit:

- a. Reduce THERMAL POWER at least 1% for each 1%  $F_Q(Z)$  exceeds the limit within 15 minutes and similarly reduce the Power Range Neutron Flux-High Trip Setpoints within the next 4 hours; POWER OPERATION may proceed for up to a total of 72 hours; subsequent POWER OPERATION may proceed provided the Overpower  $\Delta T$  Trip Setpoints have been reduced at least 1% for each 1%  $F_Q(Z)$  exceeds the limit. The Overpower  $\Delta T$  Trip Setpoint reduction shall be performed with the reactor in at least HOT STANDBY.
- b. Identify and correct the cause of the out-of-limit condition prior to increasing THERMAL POWER above the reduced limit required by ACTION a., above; THERMAL POWER may then be increased provided  $F_Q(Z)$  is demonstrated through incore mapping to be within its limit.

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POWER DISTRIBUTION LIMITS

SURVEILLANCE REQUIREMENTS (Continued)

- b) Comply with the requirements of Specification 3.2.2.1 for  $F_Q(z)$  exceeding its limit by the percent calculated.
  - g. The limits specified in Specification 4.2.2.1.2.c, 4.2.2.1.2.e, and 4.2.2.1.2.f above are not applicable in the following core plane regions:
    - 1. Lower core region from 0 to 15%, inclusive.
    - 2. Upper core region from 85 to 100%, inclusive.
- 4.2.2.1.3 When  $F_Q(Z)$  is measured pursuant to Specification 4.10.2.2, an overall measured  $F_Q(Z)$  shall be obtained from power distribution map and increased by 3% to account for manufacturing tolerances and further increased by 5% to account for measurement uncertainty.

POWER DISTRIBUTION LIMITSSURVEILLANCE REQUIREMENTS

4.2.2.2.1 The provisions of Specification 4.0.4 are not applicable.

4.2.2.2.2  $F_{xy}$  shall be evaluated to determine if  $F_Q(Z)$  is within its limit by:

- a. Using the movable incore detectors to obtain a power distribution map at any THERMAL POWER greater than 5% of RATED THERMAL POWER,
- b. Increasing the measured  $F_{xy}$  component of the power distribution map by 3% to account for manufacturing tolerances and further increasing the value by 5% to account for measurement uncertainties,
- c. Comparing the  $F_{xy}$  computed ( $F_{xy}^C$ ) obtained in Specification 4.2.2.2.2b., above, to:
  1. The  $F_{xy}$  limits for RATED THERMAL POWER ( $F_{xy}^{RTP}$ ) for the appropriate measured core planes given in Specification 4.2.2.2.2e. and f. below, and
  2. The relationship:

$$F_{xy}^L = (F_{xy}^{RTP}) [1+0.2(1-P)],$$

where  $F_{xy}^L$  is the limit for fractional THERMAL POWER operation expressed as a function of  $F_{xy}^{RTP}$  and P is the fraction of RATED THERMAL POWER at which  $F_{xy}$  was measured.

d. Remeasuring  $F_{xy}$  according to the following schedule:

1. When  $F_{xy}^C$  is greater than the  $F_{xy}^{RTP}$  limit for the appropriate measured core plane but less than the  $F_{xy}^L$  relationship, additional power distribution maps shall be taken and  $F_{xy}^C$  compared to  $F_{xy}^{RTP}$  and  $F_{xy}^L$  either:
  - a) Within 24 hours after exceeding by 20% of RATED THERMAL POWER or greater, the THERMAL POWER at which  $F_{xy}^C$  was last determined, or
  - b) At least once per 31 EFPD, whichever occurs first.

POWER DISTRIBUTION LIMITSSURVEILLANCE REQUIREMENTS (Continued)

2. When the  $F_{xy}^C$  is less than or equal to the ( $F_{xy}^{RTP}$ ) limit for the appropriate measured core plane, additional power distribution maps shall be taken and  $F_{xy}^C$  compared to  $F_{xy}^{RTP}$  and  $F_{xy}^L$  at least once per 31 EFPD.
  - e. The  $F_{xy}$  limit for RATED THERMAL POWER ( $F_{xy}^{RTP}$ ) shall be provided for all core planes containing Bank "D" control rods and all unrodded core planes in the CORE OPERATING LIMITS REPORT per Specification 6.9.1.8.
  - f. The  $F_{xy}$  limits of Specification 4.2.2.2e., above, are not applicable in the following core plane regions as measured in percent of core height from the bottom of the fuel:
    1. Lower core region from 0 to 15%, inclusive,
    2. Upper core region from 85 to 100% inclusive,
    3. Grid plane regions at  $17.8 \pm 2\%$ ,  $32.1 \pm 2\%$ ,  $46.4 \pm 2\%$ ,  $60.6 \pm 2\%$  and  $74.9 \pm 2\%$ , inclusive, and
    4. Core plane regions within  $\pm 2\%$  of core height ( $\pm 2.88$  inches) about the bank demand position of the Bank "D" control rods.
  - g. With  $F_{xy}^C$  exceeding  $F_{xy}^L$ , the effects of  $F_{xy}$  on  $F_Q(Z)$  shall be evaluated to determine if  $F_Q(Z)$  is within its limits.
- 4.2.2.2.3 When  $F_Q(Z)$  is measured pursuant to Specification 4.10.2.2, an overall measured  $F_Q(Z)$  shall be obtained from power distribution map and increased by 3% to account for manufacturing tolerances and further increased by 5% to account for measurement uncertainty.