

50-281

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TO ALL RECIPIENTS

TECHNICAL SPECIFICATION CHANGE NO. 9 TO THE FACILITY LICENSES NOS. DPR-32
AND DPR-37 WAS ISSUED ON AUGUST 9, 1973. PLEASE REPLACE PAGE NO. TS 3.12-17
CHANGE NO. 9 WITH THE ATTACHED PAGE.

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worst case basis. When a measurement is taken experimental error must be allowed for and 5% is the appropriate allowance for a full core map taken with the movable incore detector flux mapping system.

The measured value of F_Q^N must be additionally corrected by including a penalty as shown on Figure 3.12-8 (at the appropriate core location) to account for fuel densification effects before comparison with the limiting value above.

In the specified limit of $F_{\Delta H}^N$ there is a 8% allowance for uncertainties (1) which means that normal operation of the core is expected to result in $F_{\Delta H}^N \leq 1.55/1.08$. The logic behind the larger uncertainty in this case is that (a) abnormal perturbations in the radial power shape (e.g., rod misalignment) affect $F_{\Delta H}^N$, in most cases without necessarily affecting F_Q^N , through movement of part length rods, and can limit it to the desired value, (b) while the operator has some control over F_Q^N through F_Z^N by motion of control rods, he has no direct control over $F_{\Delta H}^N$, and (c) an error in the predictions for radial power shape, which may be detected during startup physics tests can be compensated for in F_Q^N by tighter axial control, but compensation for $F_{\Delta H}^N$ is less readily available.

At the option of the operator, credit may be taken for measured decreases in the unrodded horizontal plane peaking factor, F_{xy} . This credit may take the form of a reduction in F_Q or expansion of permissible quadrant