

ENCLOSURE 1

Radial Peaking Factor Limit Report

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TABLE 1
RADIAL PEAKING FACTOR LIMIT REPORT

This Radial Peaking Factor Limit Report is provided in accordance with Paragraph 6.9.1.11 of the Joseph M. Farley Unit 1 Technical Specifications.

The F_{xy} limits for RATED THERMAL POWER within specified core planes for Cycle 14 shall be:

For VANTAGE 5 fuel:

1. F_{xy}^{RTP} less than or equal to 2.46 for all core planes containing Bank "D" control rods.
2. For all unrodded core planes:
 F_{xy}^{RTP} less than or equal to 1.90.

These $F_{xy}(z)$ limits are used to confirm that the heat flux hot channel factor $Fq(z)$ will be limited to the Technical Specification values of:

VANTAGE 5 fuel:

$$Fq(z) \leq \frac{[2.45]}{P} [K(z)] \text{ for } P > 0.5 \text{ and,}$$

$$Fq(z) \leq 4.90 [K(z)] \text{ for } P \leq 0.5$$

assuming the most limiting axial power distributions expected to result from the insertion and removal of Control Banks C and D during operation, including the accompanying variations in the axial xenon and power distributions as described in the "Power Distribution Control and Load Following Procedures," WCAP-8385, September, 1974. Therefore, these F_{xy} limits provide assurance that the initial conditions assumed in the LOCA analysis are met and the ECCS acceptance criterion limit of 2200°F for peak clad temperature is not exceeded.

ENCLOSURE 2

Elevation Dependent Peaking Factor Versus Core Height Graph

FIGURE 1
MAXIMUM ($F_{qT} \times P_{rel}$) VERSUS CORE HEIGHT
DURING NORMAL OPERATION

