

ENCLOSURE 1

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TS Section 2.1

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are set to preclude bulk boiling at the vessel exit. An arbitrary upper safety limit of 118% thermal power is shown. This limit is based on the high flux trip including all uncertainties.

Radial power peaking factors consistent with the limit on  $F_{\Delta H}$  given in Specification 3.10.2.1 have been employed in the generation of the curves in Figure 2.1-1. An additional heat flux factor of 1.03 has been included to account for fuel manufacturing tolerances and in-reactor densification of the fuel.

The safety limit curves given in Figure 2.1-1 are based on a minimum RCS flow of  $97.3 \times 10^6$  lbm/hr. These curves would not be applicable in the case of a loss of flow transient. The evaluation of such an event would be based upon the analysis presented in Section 15.3 of the FSAR.

The Reactor Control and Protection System is designed to prevent any anticipated combination of transient conditions for Reactor Coolant System temperature, pressure, and thermal power level that would result in a DNB ratio of less than 1.17<sup>(2)</sup> based on steady state nominal operating Reactor Coolant System average temperatures less than or equal to 575.4°F, and a steady state nominal operating pressure of 2235 psig. Allowances are made in initial conditions assumed for transient analyses for steady state errors of +2% in power, +4°F in Reactor Coolant System average temperature, and ±30 psi in pressure. The combined steady state errors result in DNB ratio at the start of a transient being 10 percent less than the value at nominal full power operating conditions.

#### Reference

- (1) XN-NF-711(P) Rev. 0, "XNB Addendum for 26 Inch Spacer."
- (2) FSAR Section 15.