

Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

June 8, 2001

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555 10 CFR 50.46

## Gentlemen:

In the Matter of	. )	Docket Nos. 50-259
Tennessee Valley Authority	j	50-260
	ý	50-296

## BROWNS FERRY NUCLEAR PLANT (BFN) - REPORT OF EMERGENCY CORE COOLING SYSTEM (ECCS) EVALUATION MODEL CHANGES

The purpose of this letter is to report a significant change or error in the methodology used to determine compliance with ECCS requirements, as defined in 10 CFR 50.46(a)(3)(ii).

On November 20, 2000, May 9, 2001 and May 10, 2001, General Electric (GE) notified TVA of errors in modeling for the time step size, the calculation of condensate developed during ECCS injection and the pressure rate equation used in the SAFER computer code respectfully. This resulted in changes to the calculated results for PCT at BFN for the type fuel assemblies that are currently in use, GE11 and GE13. An evaluation of the effects of these changes on the Licensing Basis PCT with regards to the respective limits was performed.

These SAFER computer code errors resulted in changes to the calculated Licensing Basis PCT of minus five degrees F, plus 45 degrees F, and plus ten degrees F. The current maximum Licensing Basis PCT for BFN is 1580 degrees F. A summation of the listed changes results in a revised Licensing Basis PCT of 1630 degrees F (1580-5+45+10=1630).

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The errors in modeling of the computer code do not have a significant impact on LOCA calculations PCT limits. BFN has significant remaining margin, over 500 degrees F, to the 2200 degrees F PCT limit. Therefore, no further action is required.

In accordance with NRC RIS 200-05, only one paper copy of this document will be sent to the NRC Document Control Desk. There are no commitments contained in this letter. If you have any questions regarding this report, please contact me at (256) 729-2636.

Sincerely

T. E. Abney

Manager of Licensing and Industry Affairs

(Via NRC Electronic Distribution):

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