

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5N 157B Lookout Place

January 10, 1986

Director of Nuclear Reactor Regulation  
Attention: Mr. B. J. Youngblood, Project Director  
PWR Project Directorate No. 4  
Division of Pressurized Water Reactor (PWR)  
Licensing A  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Youngblood:

In the Matter of the Application of ) Docket Nos. 50-390  
Tennessee Valley Authority ) 50-391

Please refer to a letter from me to E. Adensam dated June 21, 1985 concerning Watts Bar Nuclear Plant (WBN) unit 1 draft technical specifications certification which included an FSAR reanalysis for technical specification 3.4.1.2.

The accident analysis for uncontrolled rod withdrawal from subcriticality presently in the WBN FSAR assumes four reactor coolant pumps( RCPs) in operation. This is inconsistent with the unit 1 draft technical specifications which list one RCP as being operable in mode 3. We therefore contracted Westinghouse to reanalyze the uncontrolled rod withdrawal from subcriticality to justify plant operation with fewer than four RCPs in operation. The reanalysis was submitted to NRC in the above referenced letter and justified acceptable departure from nucleate boiling (DNB) parameters with two RCPs in operation. Our intention at that time was to amend the FSAR in the next amendment (56). This reanalysis did not appear in WBN Amendment 56 which was submitted on November 27, 1985.

We are informally notified by Westinghouse in August 1985 of a discrepancy in the analysis they had performed. Westinghouse had used the WBR-1 critical heat flux correlation for the justification in their reanalysis. The WBR-1 correlation has been approved by NRC for use in other plants; however, the W-3 R-Grid correlation is used to form the licensing basis for WBN.

Presently, Westinghouse is going to reanalyze the uncontrolled rod withdrawal from subcriticality accident using the W-3 R-Grid correlation; and by implementing analytical refinements, they expect to confirm the DNB design basis for two RCPs in operation. The Westinghouse resolution is scheduled for January 20, 1986; and after receipt and review, we will submit the appropriate FSAR changes and information to NRC.

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Director of Nuclear Reactor Regulation

January 10, 1986

If there are any questions, please get in touch with K. P. Parr at  
FTS 858-2681.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*J. A. Domer*

J. A. Domer, Chief

Nuclear Licensing Branch

Sworn to and subscribed before me  
this 10<sup>th</sup> day of Jan 1986

Bryant M. Lowery

Notary Public

My Commission Expires 4/8/86

cc: U.S. Nuclear Regulatory Commission  
Region II  
Attention: Dr. J. Nelson Grace, Regional Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323