

**TENNESSEE VALLEY AUTHORITY**

CHATTANOOGA, TENNESSEE 37401

5N 157B Lookout Place

**FEB 14 1990**

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

Gentlemen:

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

WATTS BAR NUCLEAR PLANT (WBN) UNITS 1 AND 2 - RESPONSE TO NRC REQUEST FOR  
ADDITIONAL INFORMATION CONCERNING COMPLIANCE WITH 10 CFR 50, APPENDIX A,  
GENERAL DESIGN CRITERION 4

- References:
1. Letter from TVA to NRC dated April 17, 1989, concerning  
elimination of primary loop pipe breaks
  2. Letter from NRC to TVA dated December 13, 1989, request for  
additional information

Reference 1 provided analyses performed by TVA's contractor to demonstrate the  
applicability of leak-before-break (LBB) technology to WBN. Additional  
information was required by the NRC staff in Reference 2 to complete their  
review.

We have reviewed the NRC questions on the request for additional information  
regarding the Westinghouse report WCAP-11985 on the elimination of the dynamic  
effects of postulated pipe ruptures from the design basis for WBN, Units 1  
and 2. The responses to these questions are contained in the enclosed  
Westinghouse report WCAP-12500, "Additional Information in Support of  
Eliminating Large Primary Loop Pipe Rupture as the Structural Design Basis for  
WBN Units 1 and 2," dated January 1990.

If there are any questions, please telephone G. R. Ashley at (615) 365-8527.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*W. J. Ray Jr.*  
Manager, Nuclear Licensing  
and Regulatory Affairs

Enclosure  
cc: See page 2

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U.S. Nuclear Regulatory Commission

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cc (Enclosure):

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