



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381

JUL 29 1994

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

Gentlemen:

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

WATTS BAR NUCLEAR PLANT (WBN) - WESTINGHOUSE SETPOINT METHODOLOGY UPDATED
FOR EAGLE-21 PROCESS PROTECTION SYSTEM (TAC M89390)

This letter submits a topical report prepared by Westinghouse Electric Corporation to describe the methodology that was used to determine the instrument setpoints associated with WBN's reactor protection system and engineered safety features actuation system. The report is referred to in Chapter 7 ("Instrumentation and Controls") and Chapter 15 ("Accident Analyses") of WBN's Final Safety Analysis Report (FSAR). Also, the report provides design information that may be needed for the NRC staff to complete its review of WBN's new Eagle-21 process protection system. The use of digital electronics and microprocessors within the Eagle-21 system affects many of the numerical values for instrument setpoints and uncertainties.

Note that the enclosed Westinghouse setpoint methodology report completes a commitment made by TVA in a letter dated July 9, 1991, to revalidate the reactor coolant system (RCS) flow measurement uncertainty (FMU). This letter and an earlier TVA letter dated July 20, 1988, stated that a "preliminary" FMU of 1.8% was used in applicable safety analyses. After accounting for the effect of Eagle-21 changes, Westinghouse determined the "final" FMU to be 1.5% of rated RCS flow (equivalent to 1.3% of instrument span). The updated FMU of 1.5% is noted on Tables 3-9 and 3-21 of WCAP-12096, Revision 6. It has already been incorporated in applicable safety analyses including the evaluation of postulated accident conditions that are described in Chapter 15 of WBN's FSAR.

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Enclosure 1 is the topical report titled "Westinghouse Setpoint Methodology for Protection Systems, Watts Bar Units 1 and 2, Eagle 21 Version," WCAP-12096, Revision 6, dated May 1994. As noted below, Enclosure 1 contains information that is proprietary to Westinghouse and should be withheld from public disclosure. Enclosure 2 is WCAP-13721, Revision 1, which is a non-proprietary version of Enclosure 1. Enclosure 2 has the same title and date as Enclosure 1.

Enclosure 3 consists of a Westinghouse authorization letter (CAW-94-616, dated June 21, 1994), accompanying affidavit, proprietary information notice, and copyright notice. Since WCAP-12096, Revision 6 (Enclosure 1), contains information that is proprietary to Westinghouse Electric Corporation, it is supported by an affidavit signed by Westinghouse, the owner of the information. The affidavit sets forth the basis on which the information may be withheld from public disclosure by the Commission and addresses with specificity the considerations listed in paragraph (b)(4) of Section 2.790 of the Commission's regulations.

Accordingly, it is respectfully requested that the information which is proprietary to Westinghouse be withheld from public disclosure in accordance with 10 CFR Section 2.790 of the Commission's regulations.

Correspondence with respect to the copyright or proprietary aspects of WCAP-12096, Revision 6 (Enclosure 1), and WCAP-13721, Revision 1 (Enclosure 2), or the supporting Westinghouse affidavit should reference CAW-94-616 and should be addressed to N. J. Liparulo, Manager of Nuclear Safety Regulatory and Licensing Activities, Westinghouse Electric Corporation, P. O. Box 355, Pittsburgh, Pennsylvania 15230-0355.

If you have any questions about the information provided in this letter, please telephone John Vorees at (615) 365-8819.

Sincerely,



Dwight E. Nunn
Vice President
New Plant Completion
Watts Bar Nuclear Plant

Enclosures

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cc (Enclosures):

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ENCLOSURE 3

WESTINGHOUSE DOCUMENTS RELATED TO PROPRIETARY
CONTROL OF WCAP-12096, REVISION 6