TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

August 30, 1984

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

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

Please refer to TVA's letter dated June 19, 1984 which transmitted various comments/proposed modifications to the proof and review version of the Watts Bar Nuclear Plant (WBN) unit 1 Technical Specifications.

Included in the referenced transmittal was a proposed modification revising the allowable Technical Specification limits for Reactor Coolant System (RCS) total flow rate and flow measurement uncertainty from 403600 gpm and 3.5 percent to 396000 gpm and 1.5 percent respectively. At the NRC's request, a conference call was held between TVA, Westinghouse Electric Corporation (W), and NRC representatives on July 13, 1984 to discuss the subject proposed modification. During this conference call, the principal NRC reviewer on this matter indicated that TVA's proposal to limit the RCS flow measurement uncertainty value to 1.5 percent was substantially lower than the Technical Specification limits developed for most of the recently licensed W PWRs. It was further indicated that TVA would need to provide additional information in the form of an analytical report to support an RCS flow measurement uncertainty of less than 2.1 percent.

W has modified, for applicability to WBN, an existing generic report addressing RCS flow measurement uncertainties. The generic report was modified to account for differences in the WBN Rosemount RTDs from those that were used in the development of the generic report. The W analysis yielded a 1.5-percent calorimetric uncertainty and a .2 percent elbow tap normalization uncertainty. In addition to the 1.5 percent calorimetric and .2 percent elbow tap normalization uncertainties, a .1 percent feedwater venturi fouling uncertainty should also be applied thus yielding a RCS flow measurement uncertainty of 1.8 percent.

To allow for scheduling conflicts and plant availability during startup, TVA plans to calibrate the process components 14 days before and after the required Technical Specification channel test (Surveillance Requirement 4.2.3.4).

Enclosed is a copy of both the proprietary and nonproprietary versions of "Westinghouse Report on RCS Flow Uncertainties with the Use of Rosemount RTDs" (Enclosure 1). In addition, we have enclosed the W authorization letter CAW-84-79 and an accompanying affidavit (Enclosure 1).

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CC: BNL
FEMA-REP
LPDR
PDR
NSIC
NTIS
NON PROP ONLY

Director of Nuclear Reactor Regulation August 30, 1984

As this submittal contains information proprietary to W, it is supported by an affidavit signed by W, 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 W be withheld from public disclosure in accordance with 10 CFR Section 2.790 of the Commission's regulations. Correspondence with respect to the proprietary aspects of the Application for Withholding or the supporting Westinghouse affidavit should reference CAW-84-79 and should be addressed to R. A. Wiesemann, Manager Regulatory and Legislative Affairs, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, Pennsylvania 15230.

Also enclosed are proposed modifications to the unit 1 Technical Specifications consistent with the discussions above (Enclosure 2). Technical Specification Figure 3.2-3, "RCS Total Flow Rate Versus R", will need to be revised and will be forwarded in the near future.

If you have any questions concerning this matter, please get in touch with D. B. Ellis at FTS 858-2681.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills

L. M. Mills, Manager
Nuclear Licensing

Sworn to and subscribed before me
this 30th day of August 1984

Paulette H. White

Notary Public
My Commission Expires 9-5-84

Enclosures (2)
cc: U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

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Sworn to and subscribed before me
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Paulette H. White
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ENCLOSURE 1

WATTS BAR NUCLEAR PLANT

WESTINGHOUSE AUTHORIZATION LETTER CAW-84-79
WESTINGHOUSE AFFIDAVIT AW-76-60
WESTINGHOUSE REPORT "RCS FLOW UNCERTAINTIES WITH THE USE OF ROSEMOUNT RTDs"
(PROPRIETARY AND NONPROPRIETARY VERSIONS)