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

July 27, 1983

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 L. M. Mills' letter to A. Schwencer dated January 13, 1981 which provided TVA's position for meeting the requirements of performing a preliminary control room assessment as identified in NUREG-0660, item I.D. Also, refer to L. M. Mills' letter to you dated August 20, 1981 which provided TVA's responses to deficiencies identified by NRC during a human factors engineering design review/audit of the control room.

The referenced letters specified various commitments related to control room operations. It is TVA's position that several of these commitments should be revised. Enclosed is a listing of these commitments along with their corresponding justifications for requiring revision. (Please note that these commitments are specified in the Watts Bar Safety Evaluation Report, Appendix D. Therefore, we request that you expeditiously review our positions and respond at the earliest date possible so that we may proceed accordingly.)

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

DS Kammer

D. S. Kammer
Nuclear Engineer

Sworn to and subscribed before me
this 27th day of July 1983

Paulette H. White
Notary Public
My Commission Expires 9-5-84

Enclosure

cc: See page 2

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cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

ENCLOSURE

Item 6.1.B(3) (January 13, 1981 submittal)

Existing Commitment - To help reduce the background noise level, carpet will be installed before fuel loading. Noisy equipment which interferes with voice communications will be identified and modified to reduce noise output (e.g., the radiation monitoring cabinet has been moved to a location outside the horseshoe). Additional noise measurements will be made after the previously mentioned improvements have been made and further corrective action taken if necessary. Results will be submitted to the NRC 120 days before issuance of an operating license.

Revised Commitment - TVA will submit the results of the additional noise measurements 120 days after fuel loading. This schedule change seems appropriate since: (1) TVA would like to install the carpet just before fuel loading to prevent damage from the many construction changes being made in the control room, and (2) TVA believes that the background noise measurements would be more meaningful if they were taken when the unit is operational (noise from construction activities, fuel loading, and initial startup operations will be at a higher ambient level, thus distorting the sound level survey data).

Item 6.2.A(7) (January 13, 1981 submittal)

Existing Commitment - Photographs and photometric measurements will be taken of the control room following installation of the new (fireproof) ceiling and will be submitted to the NRC 120 days before an OL is issued (assuming ceiling replacement has been completed by that time).

Revised Commitment - TVA believes that submitting photographs to NRC at this time is premature since all panel modifications have not been completed. TVA will take a complete set of color photographs of all panels located in the main control rooms and auxiliary control rooms after the respective units are operational for submittal to NRC 120 days after fuel loading.

With regard to photometric measurements, TVA will conduct a preliminary lighting survey of the main control rooms and submit the results by October 1, 1983. The preliminary lighting survey will include illuminance readings whereas the detailed control room design review will also include contrast ratio measurements. The final lighting survey will be conducted in conjunction with the detailed control room design review. The results will be included in the submittal of the control room design room summary report and implementation plan.

Item 3 (August 20, 1981 submittal, Page 2 of Enclosure)

Existing Commitment - The pointer on all indicating meters will be painted flourescent orange.

Revised Commitment - TVA has found that this is not a practical solution to improving the readability of meters. The additional weight of the paint on the pointer causes the meter be out of calibration. TVA will investigate other techniques to enhance readability and include this concern in the detailed control room design review effort as described in TVA's response to Generic Letter 82-33 dated April 15, 1983.

Item 2 (August 20, 1981 submittal, Page 2 of Enclosure)

Existing Commitment - Operating ranges will be added to the scale of indicating meters where possible in the main control room with the following criteria applied:

a. No color (clear) - normal operation

b. Yellow - Abnormal operating condition; with caution being taken and/or first alarm point of a two-level alarm.

c. Magenta - Abnormal operating conditions; action should be taken immediately and/or second alarm point of a two-level alarm.

Revised Commitment - Yellow and magenta colors are used on signs denoting radiation zones throughout the plant. Therefore, to prevent confusion to operations personnel, TVA will use red in place of magenta. The cautionary range previously colored yellow will be changed to clear. TVA will not distinguish between the normal and cautionary ranges by color coding as previously committed.

Item 8 (August 20, 1981 submittal, Page 3 of Enclosure)

Existing Commitment - The bezels of all meters will be changed to black to improve contrast of meter readings.

Revised Commitment - In trying to implement this change, it has been determined that painting the bezels is not practical and would not significantly improve the contrast between the meter bezels and the control panel surfaces. TVA is color coding the abnormal range red on meters to enhance discriminability.