

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

April 9, 1985

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 to NRC dated January 13, 1981 by which TVA provided the results of a preliminary design review of the control room at Watts Bar Nuclear Plant. The letter identified eight significant items which were to be corrected by fuel load of the respective units. Enclosed is a description of each commitment along with clarifications of each item. The necessary modifications have been performed and the eight items are considered to be complete for unit 1.

If you have any questions concerning this matter, please get in touch with K. Mali at FTS 858-2682.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*R. H. Shell*

R. H. Shell  
Nuclear Engineer

Sworn to and subscribed before me  
this 9<sup>th</sup> day of April 1985.

*Paulette S. White*  
Notary Public

My Commission Expires 8-24-88  
Enclosure

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

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ENCLOSURE

WATTS BAR NUCLEAR PLANT  
PRELIMINARY CONTROL ROOM DESIGN REVIEW

1. Commitment

Dedicated-panel telephones (sound-powered phone systems) will be installed to improve control room communications between operators.

Clarification and Status

A dedicated-panel sound-powered phone system was designed and installed (see drawing E55W1300-4 for single line diagram and drawing 47W605-1 for locations). Provisions for hanging sound powered headsets at various points on main control room (MCR) panels were added per engineering change notice (ECN) 3265. The completion of the activity has been reverified by the control room design review (CRDR) team.

2. Commitment

Panel guardrails will be installed to prevent inadvertent actuation of switches close to the front edge of the main control panels. Also, red carpet will be installed at the base of vertical panels to designate off-limit areas to employees not performing a required task.

Clarification and Status

Guardrails were added to the horseshoe area panels per ECN 3265 and drawings 47W605-3R9 and 47A348-249R0. The CRDR team review confirmed this activity complete. However, discrepancies in the documentation were identified as needing correction. The discrepancies in documentation were corrected by revision 1 to drawing 47A348-249.

Red carpet has been installed at the base of vertical panels along the walkway between units 1 and 2 per ECN 3343. The completion of this has been reverified by the CRDR team. Though not reviewed during the preliminary review, the team identified additional vertical panels that may require red carpet. This will be handled as part of the detailed control room design review (DCRDR).

3. Commitment

Arrangements will be made to maintain procedures in a specific location in the control room, and an index will be added to assist operators in locating specific emergency procedures. Also, immediate action steps in emergency procedures will be revised to eliminate references made to external documents.

Clarification and Status

Emergency procedures are maintained in a specific location in the control room. Procedures have an index and are tabbed. These procedures do not reference external documents in the immediate action steps to perform actions. The response not obtained (RNO) columns of the procedures do refer to other procedures (e.g., AOI, SOI). The completion of this activity was not verified as part of the CRDR team's reverification of appendix D items (reference: WBN Safety Evaluation Report, NUREG-0847) since this item was not one of the appendix D concerns. The completion of this modification was reverified by one of the CRDR co-team leaders during an April 3, 1985, review.

4. Commitment

Alarms important to safety will be arranged by priority by color coding annunciator windows.

Clarification and Status

High priority alarm windows have been color coded red to distinguish them from lower priority alarms (ECN 3513 and the 47B601-55 series of annunciator drawings). The only exception to this is XA-55-30, which is located on M-30. The CRDR team review to verify completion of this appendix D item indicated the item was complete.

5. Commitment

Common panels containing controls and displays from multiple units will be modified by using color coding and adding specific unit numbering to provide unique identification of each control and display.

Clarification and Status

The following panels were modified to add color coded unit demarcation and tags in accordance with ECN 2604:

<u>Panel No.</u>	<u>Drawing No.</u>
1-M-9	47W605-32 R8
2-M-9	47W605-35 R8
0-M-12	47W605-28 R9
1-M-15	47W605-21 R13
2-M-15	47W605-30 R9
0-M-25	47W605-21 R13
0-M-26	47W605-19 R4
0-M-27A	47W605-23 R10
0-M-27B	47W605-25 R7

Initial review by the CRDR team indicated this modification was not complete. The CRDR team wrote HECs 6060, 6179, and 6181 on this item. ECN 5546 was issued to complete this modification. This modification is complete, and the CRDR team has verified completion of this item for unit 1.

6. Commitment

The bezels will be painted black on each overhead annunciator display panel to improve contrast between annunciator windows and background.

Clarification and Status

Annunciator bezels have been painted black (ECN 3264). The CRDR team verified this modification is complete.

7. Commitment

Carpet will be added to the control room to reduce background noise levels.

Clarification and Status

Carpet has been installed in the main control room (ECN 3343). This has been verified by the CRDR team as being complete.

8. Commitment

Control room procedures will be revised to instruct operators to use the lamp test buttons on the status monitoring panels to verify that a lamp is burned out, rather than implying that a system is unavailable.

Clarification and Status

The control boards are under constant surveillance by the operators and burned out bulbs are replaced upon detection. Administrative instruction AI-2.10 has been revised to instruct operators to check for burned out lamps at shift change. This has been verified by the CRDR team as being complete.