

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

April 19, 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

During a telephone conference call on March 27, 1984, TVA and the NRC discussed the Watts Bar Nuclear Plant design related to Inspection and Enforcement Bulletin (IEB) 80-06. The enclosed drawings and information support TVA's response to IEB 80-06 as provided in question 31.147.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*L. M. Mills*

L. M. Mills, Manager  
Nuclear Licensing

Sworn to and subscribed before me  
this 19<sup>th</sup> day of April 1984

Bryant M. Lowery  
Notary Public  
My Commission Expires 4/8/86

Enclosures (3)

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

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## ENCLOSURE

Drawing 45W600-3-11 (R3) shows the controls for the feedwater isolation valves. (SG1, TRB in upper left corner is typical) note that any one of relays K601, K620, K636 (yellow) deenergizes the relay SG1BR which interrupts power to the solenoid valve resulting in closure of valve (purple). The only way to reenergize the relay SG1BR is to manually push the reset switch HS-3-352 (green). Note that the K601, K620, and K636 relays open on a feedwater isolation signal. This is generated coincident with reactor trip as shown on FSAR figure 7.2-1.

Drawing 45N600-30-11 (RG) shows controls for containment purge isolation valves. See FCV-30-8 and FCV-30-50 for typical circuit. Relay K622 (yellow) opens the contacts to deenergize the circuit on a containment vent isolation signal resulting in valve closure. The limit switches ZS-30-8 and ZS-30-50 are closed only when the valve is fully open. As soon as the valve starts to close, the limit switches (purple) also open. Therefore, even if the containment vent isolation signal is reset and relay K622 (yellow) closes the contacts, the valve circuit is still deenergized because the limit switches are still open. The only way to open the valves is to put HS-30-8 (green) in the open position and hold it there until the limit switch closes.

(Although not shown here, the HS is spring return to auto).