

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

April 17, 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

This letter supplements TVA's April 5, 1985 submittal regarding the minimum subatmospheric pressure inside containment following a degraded core event with hydrogen combustion at Watts Bar Nuclear Plant (WBN), and documents a telephone conference call held on April 17, 1985 between TVA and NRC representatives.

The allowable external pressure for the WBN containment vessel was calculated using ASME Code case N-284. The containment vessel has an external pressure capacity of over 4 psig for service level D and 3.4 psig for service level C. The critical section of the vessel for these calculations is the 13/16-inch thick portions of the dome.

If you have any questions concerning this matter, please get in touch with K. Mali of my staff 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 17th day of April 1985

*Paulette A. White*

Notary Public

My Commission Expires 8-24-88

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

8504230416 850417  
PDR ADDCK 05000390  
A PDR

Boo!  
1/0