

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

February 5, 1981

Director of Nuclear Reactor Regulation  
Attention: Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr. Schwencer:

In the Matter of ) Docket No. 50-327  
Tennessee Valley Authority )

In order to meet the requirements outlined in Supplement 4 to the Safety Evaluation Report for Sequoyah Nuclear Plant for equipment survivability during a hydrogen burn, TVA will provide the following information by May 31, 1981.

- (1) New calculations using an improved methodology for the long term containment atmosphere temperatures.
- (2) An evaluation of the survivability of essential safety-related equipment using the short term equipment heatup calculational methods provided in our January 22, 1981, submittal, the long term containment environment calculations discussed above, and the available environmental qualification data for the applicable components.
- (3) A schedule for conducting confirmatory tests on any essential component deemed to be not acceptable for operation in the containment hydrogen burn environment. This schedule will be consistent with the NRC's review required to meet the January 31, 1982, deadline.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*L. M. Mills*  
L. M. Mills, Manager  
Nuclear Regulation and Safety

Sworn to and subscribed before me  
this 5<sup>th</sup> day of Feb. 1981

*Bryant M. Lowery*  
Notary Public

My Commission Expires 4/4/82