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 MILLS, L.M.      Tennessee Valley Authority  
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 PARR, O.D.      Light Water Reactors Branch 3

SUBJECT: Requests expeditious review & ruling re use of "square root of sums of squares" technique for all analyses of RCS & supports not yet completed.

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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

October 30, 1979

Director of Nuclear Reactor Regulation  
Attention: Mr. Olan D. Parr, Chief  
Light Water Reactors Branch No. 3  
Division of Project Management  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr. Parr:

In the Matter of the Application of ) Docket Nos. 50-438  
Tennessee Valley Authority ) 50-439

An NRC staff working group has issued a report entitled "Methodology for Combining Dynamic Responses" (NUREG-0484). In this report, the working group concludes that for ". . . the combination of the dynamic responses within the reactor coolant pressure boundary (RCPB) and its supports, which result from the coincidence of an SSE and LOCA, the square root of the sums of the squares (SRSS) technique is acceptable contingent upon performance of a linear elastic dynamic analysis to meet the appropriate ASME Code, Section III, Service Limits."

The analyses for the reactor coolant system (RCS) and its supports for Bellefonte Nuclear Plant have been performed to date using the absolute or linear summation (ABS) method. However, TVA agrees with the above conclusion from NUREG-0484 and intends to use the SRSS technique for all analyses of the RCS and its supports which have not yet been completed.

As noted in NUREG-0484, TVA would perform a linear elastic dynamic analysis for all components to which the SRSS method is applied. Also, the components for which the SRSS technique is used will be identified in a future amendment to the FSAR following completion of the analyses for the RCS and its supports.

TVA would appreciate an expeditious review and ruling on this proposal since this ruling will have a significant effect on completion of the analysis for the RCS and its supports.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

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

*Boose, 10*

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