



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

Docket Nos.: 50-327  
and 50-328

10 FEB 1987

Mr. S. A. White  
Manager of Nuclear Power  
Tennessee Valley Authority  
6N 38A Lookout Place  
1101 Market Street  
Chattanooga, Tennessee 37402-2801

Subject: Transmittal of Draft Safety Evaluation on Electrical Design  
Calculations

Enclosed is a draft copy of the staff evaluation on six of the nine areas of electrical design calculations presently under review by the staff. The staff intends to incorporate this evaluation into the Safety Evaluation Report (SER) on Volume 2 of the Nuclear Performance Plan. The purpose of this letter is to transmit the report to the Tennessee Valley Authority (TVA) for its information.

The electrical design areas that are addressed in the enclosure are:

1. Auxiliary power system load analysis
2. Auxiliary power system voltage calculations
3. Auxiliary power system MCC control circuit cable length calculation
4. Auxiliary power system diesel generator load analysis
5. Control power system 125V dc voltage calculations.
6. Control power system 120V ac voltage calculations.

Based on its review of these six electrical calculations identified above, the staff finds that the documentation for these calculations is adequate and that they provide a reasonable degree of confidence for Sequoyah restart.

As part of TVA's assessment of electrical calculations, Sargent & Lundy (S&L) was contracted to perform an independent assessment of the referenced electrical calculations. Subsequent to S&L's review and TVA's reassessment, TVA decided that additional review and documentation of the following three electrical calculations areas which are part of the original nine was still needed:

1. Instrumentation and Control System (I&CS) instrumentation accuracy calculations.
2. Raceway Systems (RS) use of TVA's ampacity tables.

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Mr. S.A. White

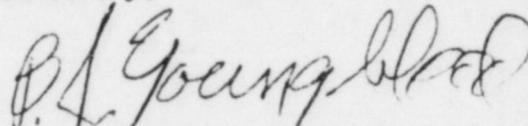
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3. Raceway Systems (RS) verification of TVA's ampacity tables in cable trays, conduits and duct banks.

Although TVA has provided information in the above three areas, it intends to revise its submittal in the ampacity areas. The staff review of this effort is presently underway and will be completed after the revised ampacity documentation is provided and before restart of Sequoyah. When the review of this work is complete, a supplemental evaluation addressing the above three electrical calculations will be provided.

If you require any additional assistance, feel free to contact the Sequoyah Project Manager, Joe Holonich, at (301) 492-7270.

Sincerely,



B.J. Youngblood, Director  
PWR Project Directorate #4  
Division of PWR Licensing-A

Enclosure: As stated

cc: See next page

Mr. S.A. White

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