

Mr. Oliver D. Kingsley, Jr.  
President, TVA Nuclear and  
Chief Nuclear Officer  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

February 19, 1997

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - TECHNICAL SPECIFICATION  
CHANGE REQUEST TS 96-05 FOR SEQUOYAH NUCLEAR PLANT UNITS 1 AND 2  
(TAC NOS. M96998 AND M96999)

Dear Mr. Kingsley:

The staff is reviewing the subject proposed Technical Specification change requests submitted by the Tennessee Valley Authority in a letter dated October 18, 1996. The proposed changes would remove footnotes pertaining to alternate steam generator plugging criteria (APC). These criteria were placed in previous license amendments for each unit but were stipulated only for Cycle 8 of operation. Removing the footnotes would make the APC valid for all future cycles of operation. To complete our review of your request, the response to the attached request for additional information is needed.

Please contact me at (301) 415-2010 if you have any questions.

Sincerely,

Original signed by

Ronald W. Hernan, Senior Project Manager  
Project Directorate II-3  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket Nos. 50-327 and 50-328

Enclosure: Request for Additional Information

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## SEQUOYAH NUCLEAR PLANT

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County Executive  
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Chattanooga, TN 37402-2801

REQUEST FOR ADDITIONAL INFORMATION  
REVIEW OF TECHNICAL SPECIFICATION AMENDMENT  
REGARDING VOLTAGE-BASED ALTERNATE REPAIR CRITERIA  
FOR STEAM GENERATOR TUBES  
SEQUOYAH UNITS 1 AND 2  
DOCKET NOS: 50-327 AND 50-328

In a letter dated October 18, 1996, the Tennessee Valley Authority (TVA) submitted for staff review an amendment to change the Technical Specifications (TS) for the Sequoyah Nuclear Plant, Units 1 and 2. The proposed change removes the footnotes in the existing TS that limit application of voltage-based alternate repair criteria (ARC) for the steam generator tubes in Sequoyah units 1 and 2 to cycle 8 operation. Once the footnotes are removed, TVA may apply the voltage-based repair criteria to the steam generator tubes permanently.

TVA referenced three submittals dated September 7, 1995, December 12, 1995 and March 4, 1996 as documents that contain technical basis to support the current amendment request. The September 7, 1995 submittal contains technical basis for the implementation of the interim ARC for Unit 1. The December 12, 1995 and March 4, 1996 submittals contain technical basis for the implementation of the interim ARC for Unit 2. After reviewing the three documents, the staff requests the following additional information:

1. TVA referenced the Westinghouse report, "SLB Leak Rate and Tube Burst Probability Analysis Methods for ODS/CC at TSP Intersections," WCAP-14277, as a source for performing calculations for burst probability, end of cycle voltage distribution, and leak rate. Westinghouse published revision 1 of WCAP-14277 in December 1996 because the staff did not find the original report to be acceptable for referencing in safety evaluations. TVA needs to update its commitment to use Revision 1 of the report.
2. TVA needs to update its commitment to the latest database it intends to use in performing the calculations specified in Generic Letter (GL) 95-05 for the upcoming Unit 1 steam generator inspection. On a permanent basis, TVA needs to commit to the protocols for the use of the NRC-approved steam generator database.
3. TVA submitted plans for inspecting dents at tube support plates for both units in its previous TS amendment requests. However, for the current amendment request, TVA needs to clarify its dent inspection criteria in light of revisions to the inspection criteria that may be needed due to the results of inspecting dents less than 5 volts, either in the past or in the future.

Enclosure

4. TVA committed to various industry criteria for probe wear and variability in previous amendment requests; however, there have been new probe wear and variability criteria developed since 1995. Therefore, TVA needs to update its commitment to comply with the criteria proposed, finalized and agreed upon in the following letters:
  - (1) the Nuclear Energy Institute (NEI) letter to NRC, subject: "Eddy Current Probe Replacement Criteria for Use in ODSCC Alternate Repair Criteria," January 23, 1996;
  - (2) the NEI letter to NRC, subject: "New Probe Variability for Use in the ODSCC Alternate repair Criteria," January 23, 1996;
  - (3) the NEI letter to NRC, subject: "Eddy Current Probe Replacement Criteria for Use in ODSCC Alternate Repair Criteria (Project No. 689)," February 23, 1996;
  - (4) the letter from B. Sheron of NRC to A. Marion of NEI dated February 9, 1996; and
  - (5) the letter from B. Sheron of NRC to A. Marion of NEI dated March 18, 1996.
5. TVA has incorporated the model TS specified in GL 95-05 into the existing unit 1 and 2 technical specifications and has committed to certain sections in Attachment 1 of GL 95-05. However, it is not clear in TVA's previous submittal whether it has committed to comply with all sections in Attachment 1 of GL 95-05. To clarify, TVA needs to commit to comply with GL 95-05 in its entirety. Alternatively, TVA needs to provide exceptions to GL 95-05, should there be any.