



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

May 13, 1992

Docket Nos. 50-327
and 50-328

Tennessee Valley Authority
ATTN: Dr. Mark O. Medford, Vice President
Nuclear Assurance, Licensing & Fuels
3B Lockout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Dear Dr. Medford:

SUBJECT: ALTERNATE ANALYSIS REVIEW PROGRAM PHASE II - PIPE SUPPORT DEFLECTION
CRITERIA, SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2 (TAC NOS. R00419
AND R00420)

The Tennessee Valley Authority (TVA), licensee for the Sequoyah Nuclear Plant, Units 1 and 2, used alternate analysis criteria and deflection criteria to qualify nuclear safety class piping and piping supports. These alternate analysis criteria were used to determine the locations for pipe supports in lieu of performing a rigorous piping analysis. The purpose of the deflection criteria was to ensure that the stiffness of a support does not have an adverse impact on the results of the piping analysis. The staff's evaluation of this program, which is contained in NUREG-1232, Volume 2, "Safety Evaluation Report on Tennessee Valley Authority: Sequoyah Nuclear Performance Plan," identified an open issue regarding the technical basis for TVA's deflection criteria used in pipe support design. TVA committed to perform an evaluation and justify the adequacy of the deflection criteria.

By letters dated October 22, 1990, August 26, 1991, and March 16, 1992, TVA supplied the technical justification and additional information regarding the deflection criteria issue. Based on this information, the staff has determined that TVA has adequately addressed the open issue identified in

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Dr. Mark O. Medford

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NUREG-1232, Volume 2, regarding the use of deflection criteria in the design of alternately analyzed pipe supports for 6-inch diameter and smaller piping systems at Sequoyah, as explained in the enclosed Safety Evaluation.

This action closes TAC Nos. R00419 and R00420.

Sincerely,

Original signed by

David E. LaBarge, Senior Project Manager
Project Directorate II-4
Division of Reactor Projects - I/I1
Office of Nuclear Reactor Regulation

Enclosure:
Safety Evaluation

cc w/enclosure:
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Sequoyah Nuclear Plant

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