

## TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

JUL 7 1981 8:04  
June 30, 1981

SQRD-50-328/81-30

Mr. James P. O'Reilly, Director  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Region II - Suite 3100  
101 Marietta Street  
Atlanta, Georgia 30303



Dear Mr. O'Reilly:

SEQUOYAH NUCLEAR PLANT UNIT 2 - FOAM SEALS IN MECHANICAL PIPE SLEEVES -  
SQRD-50-328/81-30 - SECOND INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on April 16, 1981, in accordance with 10 CFR 50.55(e) as NCR CEB 8108. Our first interim report was submitted on April 23, 1981. Enclosed is our second interim report. We expect to submit our next report by September 16, 1981.

If you have any questions, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager  
Nuclear Regulation and Safety

## Enclosure

cc: Mr. Victor Stello, Director (Enclosure)  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

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ENCLOSURE

SEQUOYAH NUCLEAR PLANT UNIT 2  
FOAM SEALS IN MECHANICAL PIPE SLEEVES  
SQRD-50-328/81-30  
10 CFR 50.55(e)  
SECOND INTERIM REPORT

Description of Deficiency

Some wall penetration piping sleeves shown on TVA drawing series 47W470 and 47W471 have rigorously analyzed safety-related piping routed through them. Silicone sealants are provided between the pipe and sleeve at certain locations as shown on TVA drawing series 47W472. These seals have not been considered by the piping analyst for most cases and thereby could result in increases in pipe stresses and support loads for some situations. The maximum pipe movements at the sleeves may cause failure of the sealant to perform its intended design function as a pressure, water, radiation, and/or fire protection seal.

Interim Progress

As stated in our last report, TVA has conducted tests which show that the silicone foam is flexible in tension, compression, and shear. Test results and vendor physical data indicate the silicone foam will not tear or rupture for anticipated pipe movements. In cases where the pipe is not centered, the movement of the pipe could tear the seal locally; however, a complete loss of a seal through a penetration is not likely. Therefore, this deficiency should not affect power operation.

TVA is continuing its evaluation of the effects of the silicone foam seals on the pipe and on the seal itself.