



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37379-2000

September 14, 1995

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Gentlemen:

In the Matter of )  
Tennessee Valley Authority )

Docket No. 50-327

SEQUOYAH NUCLEAR PLANT (SQN) - UNIT 1 - FACILITY OPERATING LICENSE  
DPR-77 - TECHNICAL SPECIFICATION (TS) 3.7.12 - SPECIAL REPORT 95-06

The enclosed special report provides details concerning Unit 1 auxiliary building sleeve penetrations that are nonfunctional as fire barriers. These fire barriers were intentionally removed from service to facilitate modification activities. The sleeve penetrations have been nonfunctional as fire barriers for a time period greater than the TS allowable timeframe.

This report is being submitted in accordance with TS 3.7.12 Action Statement (a).

If you have any questions concerning this submittal, please telephone J. Bajraszewski at (615) 843-7749.

Sincerely,

R. H. Shell  
Manager  
SQN Site Licensing

Enclosure  
cc: See page 2

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## ENCLOSURE

### SEQUOYAH NUCLEAR PLANT UNIT 1 SPECIAL REPORT 95-06

#### Description of Condition

On August 10, 1995, auxiliary building sleeve Mark Nos. 1855 and 1856 penetrating the 690 floor elevation were breached. These fire barrier penetrations were intentionally removed from service to support the planned installation of drain lines. The drain lines will support equipment that will be installed in the Unit 1 hot sample room.

On August 16, 1995, at Elevation 743.75 feet, an auxiliary building sleeve containing a fire damper (1-31C-661) was intentionally breached to support the modification of the sleeve. The modification will remove the damper and convert the penetration to a maintenance sleeve. The maintenance sleeve will serve as a qualified fire barrier that will be used as a "pass through" type of sealed penetration between the auxiliary and additional equipment buildings for Operations and Maintenance use.

These penetrations have been breached in excess of the technical specification (TS) allowable timeframe of seven days. This condition is being reported in accordance with TS 3.7.12 Action Statement (a).

#### Cause of Condition

During the modification process the sleeve penetrations were to be sealed by the use of a two-part room temperature vulcanizing, fire resistant silicone foam. The seal material used was 20 fluid-ounce SIMKIT, Part No. PR-855, manufactured by SEMCO. After the installation of the seal material, in accordance with manufacturer's written instructions supplied with the sealing material, it was determined that seal quality was unacceptable because of poor cell structure. Because of the installation failures in the field, seal material in storage was tested. These kits also displayed unacceptable cell structure. Subsequent discussions with the manufacturer indicated that the mixing instructions supplied with the seal material may be in error and result in the unsatisfactory installation of the foam. Successful qualification tests were performed using revised mixing instructions provided by the vendor. As a result of the problems encountered in the placement of the sleeve sealing material, the breaches could not be restored within the TS allowable timeframe.

#### Corrective Action

In accordance with TS 3.7.12 Action Statement (a), a roving fire watch was immediately established, and the fire detectors on one side of the penetration were verified operable. The roving fire watch will be maintained until the penetration fire barriers are reestablished. The fire barriers will be reestablished after the completion of the modification activities. Currently, the modifications are scheduled to be completed in October 1995.