

## ENCLOSURE

### SEQUOYAH NUCLEAR PLANT UNITS 1 AND 2 ERROR IN DESIGN OF SMALL LINE SUPPORTS NCR SWP 79-S-1 FINAL REPORT

#### Description of Deficiency

Movement of the Steel Containment Vessel (SCV) was not accounted for in the design of supports for several small lines that penetrate the Shield Building and the SCV. Since these supports were improperly designed, any thermal or pressure movement due to a LOCA could cause a pipe break or damage to the integrity of the SCV. Approximately 35 containment penetrations are involved in each unit.

#### Safety Implications

Had this condition remained uncorrected, LOCA-induced movement of the SCV could cause a break in safety-related piping or a loss of containment integrity of the SCV. Thus, under LOCA conditions, the safe operation of the plant could have been adversely affected.

#### Corrective Actions

The small lines are being analyzed with the proper SCV movements accounted for, and supports will be redesigned and installed as required by this analysis. Design and installation of these supports will be completed before fuel loading of the associated unit.

#### Action Taken to Prevent Recurrence

All piping penetrating containment that has not already been rigorously analyzed will be reviewed to ensure that proper support types and locations have been used. The similar supports at Watts Bar Nuclear Plant have not yet been installed. An engineering change notice has been written to ensure proper installation at Watts Bar.

7904060252