ENCLOSURE

SEQUOYAH NUCLEAR PLANT UNIT 1
INCORRECT VALVE DATA USED IN PIPING ANALYSES OF
LINES PENETRATING THE STEEL CONTAINMENT VESSEL
NCR CEB 80-2
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

While performing the DBA analysis for a previous nonconformance (NCR CEB 79-19 R1), it was discovered that 54 piping analysis problems had been analyzed using incorrect valve data. In 16 of these piping analysis problems, the incorrect valve data that was utilized yielded incorrect results as to pipe stresses and support design.

Incorrect valve data was utilized in the initial analysis of 54 piping analysis problems. Thirty-eight of these problems will only require documentation changes because the incorrect data did not affect the original piping analysis results. The balance of the 54 piping analysis problems required reanalysis.

All valves involved in the problems to be reanalyzed are in piping two inches or less. They are primarily containment isolation valves used where the following systems penetrate the steel containment: ice condenser, station drainage, service air, control air, and waste disposal.

This deficiency is an isolated instance wherein the piping analysis used non-QA valve data. Because of the urgency to complete the piping analyses associated with NCR CEB 79-19, the incorrect valve data was obtained by other-than-normal means.

Safety Implications Statement

Had this condition gone uncorrected, certain piping systems would have been overstressed during a DBA and could, as a consequence, result in a breach in containment integrity. This could have adversely affected the safe operation of the plant.

Corrective Action

All of the 16 problems that required reanalysis have been reanalyzed using the correct valve data. The results of the correct valve data reanalyses have been placed on piping isometrics. Pipe supports are now being added, moved, or modified as required to meet the piping code stress allowables.