

ENCLOSURE

SEQUOYAH NUCLEAR PLANT UNIT 1 PRESSURIZER RELIEF PIPING SUPPORT NCR SWP-79-S-8 10 CFR 50.55(e) FINAL REPORT

Description of Deficiency

Pipe support 1-RCH-93 for the pressurizer relief piping was designed to slide in the vertical direction as the pressurizer expanded during heatup of the reactor coolant system. During hot functional testing of unit 1, the hanger failed to slide because the required lubricant (Molikote 321) had not been applied to the sliding surfaces and caused the 6-inch pressurizer relief piping to undergo plastic deformation.

The lubricant was not applied to the support because a note specifying its use for this support was inadvertently omitted from the support fabrication drawing by EDS Nuclear, Inc., the contractor who designed the support.

Safety Implication Statement

The deformed 6-inch pressurizer relief piping is part of the reactor coolant pressure boundary. A failure of this piping would have led to an uncontrolled blowdown of the reactor coolant system. This event is within the spectrum of reactor coolant system breaks evaluated in chapter 15 of the final safety analysis report.

Corrective Action

Pipe support 1-RCH-93 has been redesigned so that lubrication is not required and will be modified to prevent recurrence.

The deformed 6-inch pressurizer relief piping will be returned to the required shape by selective deposition of welding material or other appropriate means.

These corrective actions will be completed before fuel loading.

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