

ENCLOSURE

SEQUOYAH NUCLEAR PLANT UNITS 1 AND 2
CORROSION OF CABLE TERMINATIONS IN JUNCTION
BOXES INSIDE CONTAINMENT

NCR 9P

10 CFR 50.55(e)

FIRST INTERIM REPORT

Description of Condition

This NCR was issued based on a problem with corrosion of cable terminations within (a) junction boxes that were randomly sampled inside unit 1 primary containment and (b) Foxboro transmitters inside unit 1 primary containment.

Junction boxes

Inside primary containment, some junction boxes house terminations for field wiring that interface with vendor's equipment and components. TVA has conducted a 100-percent inspection of these boxes containing terminations in the unit 1 reactor building and the auxiliary building. Inspection results revealed that approximately 15 percent of these junction boxes contained corrosion.

Foxboro transmitters

An inspection of some Foxboro transmitters inside unit 1 primary containment found some of the cable terminations corroded within the instrument housing.

Preliminary information from the vendor indicates that the type of terminal block used in Foxboro transmitters with a serial number less than 3,000,000 could produce corrosive chemicals when exposed to moisture.

Interim Progress

TVA's corrective action on a related NCR (EL3 79-7) is to replace terminations inside containment with splices for Class 1E circuits required to achieve and maintain safe shutdown of the reactor for a LOCA or main steamline break (MSLB). Thus, any corrosion concern will be eliminated when splicing is completed. These circuits will be spliced before fuel loading of the unit.

TVA will inspect all junction boxes containing Class 1E terminations. The results of these inspections will be evaluated and corrective action determined. TVA will do a 100-percent inspection of Foxboro transmitters to determine the degree of corrosion, if any, and to verify serial numbers. Any corrective action will be in accordance with vendor's recommendations.

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