



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

ENCLOSURE

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

INSTRUMENT LINE

TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT, UNIT 1

DOCKET NO. 50-390

1.0 INTRODUCTION

The staff had previously reviewed and accepted the Corrective Action Program (CAP) plan for instrument lines and the staff evaluation is documented in NUREG-1232 Volume 4. By letter dated July 31, 1990, TVA has submitted proposed FSAR revisions on the instrument lines CAP plan.

2.0 EVALUATION

In the proposed FSAR revision of Section 7.1.2.2, TVA has added a requirement that instrument lines for safety systems should meet the independence criteria identified in criterion 22 of General Design Criteria and IEEE-279-1971, Section 4.6. Any exception to the requirement will be technically justified and documented in design basis documents. The staff finds this approach acceptable and plans to perform an inspection to audit the design basis documents.

Also in the proposed revisions, TVA has deleted Figure 7.2-3. This figure identified the design of the pressurizer water level instrumentation. TVA's justification for the deletion is that there is no need to provide this kind of detail in the FSAR. The staff finds the deletion acceptable.

In Section 7.2.2.3.3 of the FSAR, TVA has deleted the justification for using the shared taps for redundant instrumentation. This would be acceptable to the staff as long as the justification is included in the design basis documents for the affected instruments.

3.0 CONCLUSION

Based on the above, the staff has concluded that the proposed changes to the FSAR on the instrument lines CAP plan are acceptable.

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