



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

SAFETY EVALUATION BY THE OFFICE OF SPECIAL PROJECTS

SUPPORTING AMENDMENT NO. 76 TO FACILITY OPERATING LICENSE NO. DPR-77

AND AMENDMENT NO. 77 TO FACILITY OPERATING LICENSE NO. DPR-79

TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2

DOCKET NOS. 50-327 AND 50-328

1.0 INTRODUCTION

By letter dated February 3, 1987 the Tennessee Valley Authority (TVA) requested amendments to the Sequoyah Nuclear Plant, Units 1 and 2 Appendix A Technical Specifications (TS). The proposed amendments would clarify TS Table 3.3-9 Shutdown Monitoring Instrumentation. The proposed changes to Table 3.3-9 are as follows:

- 1) The measurement range shown for pressurizer level (item 5) is to be changed from 0-525 inch to 0-100 percent.
- 2) The measurement range shown for auxiliary feedwater flow rate (item 11) is to be changed from 0-880 gpm to 0-440 gpm.
- 3) The minimum number of channels operable for reactor coolant temperature-hot leg (item 3) is to be changed from 1 to 1/loop.
- 4) The minimum required channels operable for auxiliary feedwater flow rate (item 11) is to be changed from 1 to 1/steam generator.

2.0 EVALUATION

The proposed change associated with pressurizer level measurement range indication from 0-525 inches to 0-100 percent, will enhance the clarity of Table 3.3-9. The change eliminates inconsistency between parameters identified in the table and actual measured parameters depicted by control room indicating devices. The control room indicators read out in 0-100% of level.

The proposed change to the measurement range for feedwater flow rate will likewise eliminate inconsistency between table entries and actual indication. The appropriate quantity to be measured and indicated is the inlet flow to the steam generators. The 0-880 gpm range currently indicated on Table 3.3-9 is the discharge capacity of the steam driven auxiliary feedwater pump. Since the amount of auxiliary feedwater flow to each steam generator is the parameter measured on Table 3.3-9 and not the discharge capacity of the steam driven pump, the given measurement should reflect the 0-440 gpm range of the feedwater indicators for each steam generator.

The two remaining changes which are in the "Minimum Channels Operable" column of Table 3.3-9 are editorial and are intended only to clarify the number of channels required on a per loop or per steam generator basis. The "1/" in the present Table 3.3-9 for the reactor trip breaker indication and auxiliary feed-water flow rate is not correct. The correct numbers are "1/loop" and "1/steam generator," respectively. This change eliminates the potential for misinterpretation of the TS requirements.

The staff has reviewed the licensee's proposed changes to the Sequoyah Units 1 and 2 TS and finds them acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change to a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement nor environmental assessment need be prepared in connection with the issuance of the amendment.

4.0 CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security nor to the health and safety of the public.

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Dated: July 12, 1988