



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 128 TO FACILITY OPERATING LICENSE NO. DPR-33

AMENDMENT NO. 123 TO FACILITY OPERATING LICENSE NO. DPR-52

AMENDMENT NO. 99 TO FACILITY OPERATING LICENSE NO. DPR-68

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2 AND 3

DOCKET NOS. 50-259, 50-260 AND 50-296

1.0 INTRODUCTION

By letter dated October 1, 1985 (TVA BFNP TS-213), the Tennessee Valley Authority (the licensee or TVA) requested amendments to Facility Operating License Nos. DPR-33, DPR-52 and DPR-68 for the Browns Ferry Nuclear Plant, Units 1, 2 and 3. The proposed amendments would change the Technical Specifications to correct inconsistencies and typographical errors, and would add new surveillance requirements.

2.0 EVALUATION

The amendments would modify the Technical Specifications (TS) as follows:

- (A) The Table of Contents, for Units 1 and 2, would be updated to delete listings for specifications which were deleted in previous amendments. This would be an editorial change only, having no safety significance and is acceptable.
- (B) A reference on page 9 to the surveillance requirement in the Limiting Safety System Setting specification for the Unit 1 Average Power Range Monitor (APRM) would be corrected. The present incorrect reference to Section 4.1.B on page 32 (which specifies surveillance requirements for the Reactor Protection System Power Monitoring System), would be replaced by a reference to Section 4.5.L. which specifies surveillance requirements for the APRM scram set points on page 160A and is the correct reference. This would be an editorial change, having no safety significance, and is acceptable.
- (C) Annual channel functional test requirements for the triaxial peak accelographs would be added to the seismic instrumentation surveillance requirements table for all units Limiting conditions for operation are specified for these instruments but no surveillance requirements are presently specified. This change is consistent with 10 CFR 50.36(c)(3) which requires that Technical Specifications include surveillance requirements as necessary to assure limiting conditions for operation will be met and is therefore acceptable.

- (D) Grammatical and typographical errors in the surveillance requirements for the Unit 3 control rod system would be corrected. The errors originated in Amendment 56. The proposed changes would revise the wording to be consistent with Units 1 and 2. These changes are editorial, have no effect on safety, and are acceptable.
- (E) Terminology used in the surveillance requirements for the Units 1, 2 and 3 Automatic Depressurization System would be revised to be consistent with the associated limiting condition for operation. In the surveillance requirement "When ... more than two" would be changed to "When ... three of the six." This is an editorial change having no effect on safety and is therefore acceptable.
- (F) Section 4.6.B.6 of the TS for Units 1 and 2 (page 179) lists the surveillance requirements on the frequency for analyzing primary coolant for iodine -131 (I-131) to comply with the limiting conditions of operation (LCO) on I-131 in Section 3.6.B.6. For Unit 3, these same surveillance requirements are in Section 4.6.B.3 and the LCO on I-131 is in Section 3.6.B.5. Section 4.6.B.6d in the Units 1 and 2 TSs (Section 4.6.B.3.d in the Unit 3 TSs) requires additional analyses whenever the equilibrium iodine limits are exceeded and erroneously references limits in Section 3.6.B.4. The latter lists water chemistry limits on conductivity, chloride and pH but nothing on iodine. The licensee has proposed to correct this error by changing the references to the LCO section that lists iodine limits. There are no changes in any limits or frequencies of analyses. We have reviewed the changes and determined that they are necessary to correct an error and are acceptable.
- (G) A typographical error would be corrected in the coolant chemistry limiting conditions for operation for Units 1 and 2. In Section 3.6.B.6, "steam lime" would be changed to "steam line." This change is typographical, has no safety significance, and is therefore acceptable.
- (H) The referenced list of safety related snubbers for Units 1, 2 and 3, would be changed from "Surveillance Instruction BF SI 4.6.H" to Surveillance Instructions BF SI 4.6.H.-1 and -2." This change would reflect changes to plant procedures. Such changes may be made by the licensee in accordance with Technical Specification 6.3.B and are acceptable.
- (I) Technical Specification 3.7.A.1, the limiting condition for operation for the pressure suppression chamber water level and temperature, for Units 1, 2 and 3, would be changed to delete a reference to exceptions in Section 3.7.A.2. There are no exceptions to the water level and temperature limitations specified in 3.7.A.2. This is an editorial change, has no safety significance, and is therefore acceptable.

- (J) Unit 2 Table 3.7.A "Primary Containment Isolation Valves" would be revised to indicate that air compressor suction valve FCV-64-139 and air compressor discharge valve FCV-64-140 are normally closed and stay closed on an initiating signal. These valves open only when the air compressor is running and are thus best described as normally closed. A footnote describing operation of these valves would also be deleted. This change is descriptive only. It would make the Unit 2 Technical Specifications consistent with Units 1 and 3 and is acceptable.
- (K) Unit 2 Table 3.7.D "Air Tested Isolation Valves" would be revised to describe valves 90-254B and 90-255 as radiation monitor suction valves. These valves are currently listed in Table 3.7.D as radiation monitor discharge valves. This change is descriptive only, would make the valve descriptions consistent with the valve nomenclature in the radiation monitoring system and is acceptable. The revised Unit 2 Technical Specifications would be consistent with the Technical Specifications for Units 1 and 3.
- (L) Unit 3 Table 3.7.A (page 264A) would be revised to describe RCIC steam line drain valves FSV-71-6A and FSV-71-6B as normally open and going closed on an initiation signal. The function of the RCIC steam line drain system requires that these valves be normally open. This change would make the Table 3.7.A valve descriptions consistent with the associated isolation instrumentation and is acceptable. The revised Unit 3 Technical Specifications would be consistent with Units 1 and 2 Technical Specifications (page 252).
- (M) For Units 1, 2 and 3 Table 3.7.E would be revised to describe valves 75-57 and 75-58, presently described as "Core Spray to auxiliary boiler" as "Suppression chamber drain valves." This change would make the Table 3.7.E descriptions consistent with Table 3.7.A and reflect actual plant nomenclature. These are editorial changes having no safety significance and are acceptable.

### 3.0 ENVIRONMENTAL CONSIDERATIONS

The amendments involve changes in requirements with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and provide additional plant surveillance. The staff has determined that the amendments involve 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 the amendments involve no significant hazards consideration and there has been no public comment on such finding. Accordingly, the amendments meet 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 or environmental assessment need be prepared in connection with the issuance of the amendments.

#### 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 these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: W. Long and R. Clark

Dated: March 31, 1986

