

Docket



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

December 8, 1988

Docket Nos. 50-259/260/296

Mr. Oliver D. Kingsley, Jr.
Senior Vice President, Nuclear Power
Tennessee Valley Authority
6N 38A Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Dear Mr. Kingsley:

SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2 AND 3 - APPENDIX R
SAFE SHUTDOWN SYSTEM ANALYSIS (TAC 60627, 60628, 60629)

By letters dated January 1, 1986 and April 4, 1988, the Tennessee Valley Authority (TVA or the licensee) provided its 10 CFR Part 50, Appendix R safe shutdown analysis.

The staff has reviewed these submittals and concludes that, except as identified below, the proposed safe shutdown capability at the Browns Ferry units satisfies the requirements of Sections III.G.2, III.G.3 and III.L of Appendix R based upon the staff's October 21, 1988 approval of exemptions to Appendix R and the staff's evaluation contained in the attached Safety Evaluation (SE). The staff has identified specific areas requiring confirmation during the March 1989 Appendix R audit. These areas are:

1. acceptability of the design basis for fires in various areas containing safe shutdown systems and components;
2. adequacy of the fire protection systems;
3. adequacy of the procedures for the testing of fire detection and suppression systems;
4. validity of licensee's designation of some fire locations, as solely III.G.1 areas per Appendix R criteria described in Section 2.2 of the SE;
5. feasibility of performing within 10 minutes after manual scram the local manual action described in Section 2.4.3 of the SE;
6. reliability and dependability of the portable instrumentation for suppression pool level and temperature; and
7. entry conditions of safe shutdown procedures for certain fire areas.

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Item 7 above requires a formal response from TVA. We request that you provide this response within 30 days of the Appendix R audit currently scheduled for March 6, 1989.

Prior to the Appendix R audit, the staff has indicated previously that additional documentation and analyses will be required to assure BFN conformance and readiness relative to Appendix R for the plant configuration resulting from the single unit operation of Unit 2. TVA has responded to this request by providing specific information pertaining to single-unit operation of Unit 2 by letter dated August 12, 1988. This submittal is currently under staff review. As previously noted, the staff intends to address the overall adequacy of fire protection in the Browns Ferry Appendix R inspection report.

If you have any questions, please contact the Browns Ferry Project Manager, Gerald E. Gears at 301-492-0767.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required.

Sincerely,

Original Signed by

Suzanne C. Black, Assistant Director
for Projects
TVA Projects Division
Office of Special Projects

Enclosure:
Safety Evaluation

cc w/enclosure:
See next page

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