



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37379-2000

December 1, 1995

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

In the Matter of) Docket Nos. 50-327
Tennessee Valley Authority) 50-328

SEQUOYAH NUCLEAR PLANT (SQN) - FIRE PROTECTION IMPROVEMENT PLAN PERIODIC STATUS REPORT

A working meeting between TVA and NRC was held at SQN on August 19, 1991, to discuss the self-identified problems in SQN's Fire Protection Program and the improvement plan efforts initiated by TVA. As a result of this meeting, TVA agreed to submit periodic status reports to inform NRC on the progress of efforts made in conjunction with the improvement plan.

The most recent status report identifying progress achieved and areas needing further action is included in the enclosure.

The original targeted completion date for activities specified in the Fire Protection Improvement Plan was set for December 1, 1994. This was later revised to December 1, 1995 as a result of the impact of a two-unit outage involving erosion and corrosion problems and the associated engineering evaluations.

Significant progress has been made toward completion of the four phases of the Fire Protection Improvement Plan. As reflected in the enclosure, Phases 1, 2, and 3 are complete, and the only Phase 4 item that is not complete is the SQN Fire Protection Report. The design for a potable water fire protection supply system was issued in June 1995, and the installation is underway. Due to the complexity of the system and the significant financial resources required to complete this modification, it is not anticipated that the system will be operable until late 1997. The potable water system was anticipated to be the primary system used as the basis for the Fire Protection Report.

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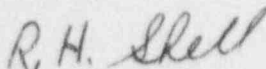
December 1, 1995

However, due to the potential for the operability of the potable water system being extended until late 1997, the report will include provisions for the current raw water system. Also, SQN has been closely following the NRC review/approval of the Fire Protection Report for Watts Bar Nuclear Plant (WBN). SQN will utilize a format similar to the WBN report and will incorporate lessons learned during the NRC review of WBN's report. Final comments were received and resolved for WBN in October this year. Therefore, SQN is revising the commitment date to complete Phase 4 of the Fire Protection Improvement Plan to August 30, 1996.

Since there is now only one outstanding item, and no significant status changes are expected for this item until it is completed, periodic status reports in the interim would not convey any new information. Therefore, this report will be the last periodic status report on the Fire Protection Improvement Plan. TVA will notify NRC when the remaining open item is complete. NRC will also be notified if there are any changes to the existing schedule for completion.

If you have any questions concerning this submittal, please telephone S. D. Gilley at (423) 843-7427.

Sincerely,



R. H. Shell
Manager
SQN Site Licensing

Enclosure

cc (Enclosure):

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ENCLOSURE

FIRE PROTECTION IMPROVEMENT PLAN - STATUS FOR PERIOD ENDING
NOVEMBER 30, 1995

Phase I - Phase I is Complete

Phase II - Phase II is Complete

Phase III - Phase III is Complete

Phase IV - Targeted Completion Date August 30, 1996

- 4-1 Perform an independent fire protection assessment to ensure that the actions taken in Phase III are properly implemented and effective. This item is complete.
- 4-2 Complete an evaluation of the mechanical and electrical fire barrier penetration seals in accordance with the guidelines in Information Notice No. 88-04. This item was rescheduled and completed during Phase III as Item 3-8.
- 4-3 Issue the remaining updated design documentation to support the final compilation into the SQN Fire Protection Report and establish a process to maintain the document on current.

Status: Work required for the submittal of the Fire Protection Report is approximately 10 percent complete. The Fire Protection Report is expected to be submitted by August 30, 1996.

- 4-4 Issue a design package for Project Control No. (PCN) 607.

Status: The design package for this item was issued in June 1995. This item is complete.

The final design for the new fire protection pumping system being installed at SQN involves an extensive redesign of the system. The final design involves the following features: (1) replacement of the existing pumping system; (2) abandonment of the current pressure control system; (3) pigging and replacement, when necessary, to remove flow inhibiting corrosion and degraded piping; and (4) performance of a full system hydrostatic test prior to declaring the new system operational. The new design establishes a more reliable fire protection system. Detailed life cycle analysis of the existing fire protection system was not warranted because of the extensive nature of the system redesign.

4-5 Perform a life-cycle analysis on high-pressure fire protection components and provide replacement recommendations.

Status: This item will be accomplished in conjunction with the upgrade to the fire protection system within the scope of PCN 607. This item should be considered an integral part of Item 4-4.