TENNESSEE VALLEY AUTHORITY
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OCT 19 1990

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

Gentlemen:

In the Matter of the Application of) Docket Nos. 50-390
Tennessee Valley Authority) 50-391

WATTS BAR NUCLEAR PLANT (WBN) UNITS 1 AND 2 - SEISMIC DESIGN FOR CERTAIN SAFETY-RELATED VERTICAL STEEL TANKS - TAC NOS. 73097 AND 73098

References: 1. Letter from NRC to TVA dated June 27, 1989, Request for Information on Seismic Design of Certain Safety-Related Vertical Steel Tanks

2. Letter from TVA to NRC dated November 3, 1989, Response to Request for Additional Information on Seismic Design of Certain Safety-Related Vertical Steel Tanks

This submittal is provided as a supplemental response to NRC's Request for Information on certain safety-related vertical steel tanks, dated June 27, 1989 (Reference 1). TVA's initial submittal of November 3, 1989 (Reference 2) committed to follow-up when ongoing analyses were complete.

The subject of NRC's request was seismic design considerations for aboveground, vertical liquid storage tanks, specifically, the condensate storage tank and the refueling water storage tank (RWST).

TVA noted in Reference 2 that the WBN condensate storage tank is not safety-related and, therefore, does not require seismic design considerations.

The RWST is however a safety-related seismic Category I structure. A reanalysis of the RWST, utilizing upgraded soil-structure interaction techniques, was already underway as part of the WBN Seismic Corrective Action Program (CAP) Plan when Reference 2 was submitted. Since completed, the RWST evaluation incorporated the recommendations made by the staff.

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During the December 18 through 22, 1989 NRC inspection (50-390, 391/89-21), the detailed evaluation of the RWST was reviewed by the seismic inspection team. Specifically, the technical adequacy of the analysis for the soil supported RWST for calculating seismic responses (amplified response spectra, base shear, overturning moment, and member forces) of the tank, connecting piping, and components was confirmed as documented in NRC Inspection Report 50-390, 391/89-21, Section 3.6.7.

Based on the acceptable inspection of the RWST analyses, TVA considers the NRC information request to have been satisfied. Follow-up analysis results committed to in Reference 2 have been provided in support of the NRC inspection. No further TVA action is therefore required.

If any questions exist on this subject, please contact P. L. Pace at (615) 365-1824.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

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