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William J. Museler
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MAY 02 1994

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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Gentlemen:

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

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 AND COMMON - GENERIC LETTER 88-20 -
INDIVIDUAL PLANT EXAMINATION (IPE) - UPDATE OF LEVEL 1 AND 2 ANALYSIS

This letter provides an update to the WBN IPE as committed in TVA's letter dated December 27, 1993, that provided the response to the request for additional information dated August 20, 1993.

Enclosure 1 is the Level 1 and Level 2 IPE analysis update. This analysis was developed by using plant design upgrades, procedure upgrades, and operator training enhancements in preparation for commercial operation of the plant.

The Level 1 core damage frequency (CDF) for WBN has been calculated in the updated IPE to be 8.0×10^{-5} per year. The Level 2 results are summarized in Section 4. No unique Level 1 or Level 2 severe accident coping features or vulnerabilities were identified. Potential enhancements are identified in Section 6 of this updated report. TVA plans to evaluate the potential enhancements and severe accident mitigation design alternatives (SAMDA) using the Updated IPE. The results of that evaluation will be submitted to the NRC by June 15, 1994.

In addition, in the NRC's review of the original IPE, information was requested in regard to the treatment of the elastomeric seals on the personnel equipment hatches at WBN. The NRC requested in a teleconference with the NRR Reviewer, John Lane, on April 7, 1994, that TVA confirm that the elastomeric seals were considered in the IPE. Enclosure 2 describes the evaluation of the elastomeric seals for WBN and compares the design to TVA's Sequoyah Nuclear Plant. The information in the enclosure provides confirmation that the elastomeric seals were considered in the original IPE.

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Enclosure 3 identifies the commitment made in this letter. If you should have any questions, contact J. Vorees at (615)-365-8819.

Very truly yours,



William J. Museler

Enclosures

cc (Enclosures):

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ENCLOSURE 1

WATTS BAR NUCLEAR PLANT UNITS 1 AND COMMON

UPDATED
INDIVIDUAL PLANT EXAMINATION (IPE)