

Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381

DEC 20 1991

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 - GENERIC LETTER 88-20, SUPPLEMENT 4 - INDIVIDUAL PLANT EXAMINATION OF EXTERNAL EVENTS (IPEEE) FOR SEVERE ACCIDENT VULNERABILITIES (TAC NO. M74488)

This provides TVA's response to the subject generic letter supplement for WBN.

As requested by the subject generic letter, the proposed methodology for performing the analysis for each of the events are listed below. TVA will submit the results of the IPEEE for WBN Unit 1 and Common by or before June 1994 as requested by the generic letter. (Current WBN schedule for completion is May 1993.)

Events

Methodology

Seismic Events

Seismic Margins Assessment method described in Electric Power Research Institute (EPRI) Report NP-6041, "A Methodology for Assessment of Nuclear Power Plant Seismic Margin."

Internal Fires

Fire-Induced Vulnerability Evaluation,
Methodology, Plan and Screening Guide (FIVE).

High Winds and
Tornadoes, External
Floods, Transportation
and Nearby Facility
Accidents, and Other
External Events

Procedures as described in NUREG-1407, "Procedural and Submittal Guidance for Individual Plant Examination of External Events (IPEEE) for Severe Accident Vulnerabilities."

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U.S. Nuclear Regulatory Commission

TVA will complete the IPEEE for WBN Unit 2 and will submit the results to NRC before Unit 2 fuel loading.

The enclosure provides the list of commitments identified in this letter. If you have any questions concerning this matter, please telephone John Vorees at (615) 365-8819.

Sincerely,

John H. Garrity

Subscribed and sworn to before me

on this 20xh day of

My Commission Expires

Enclosure

cc (Enclosure):

NRC Resident Inspector Watts Bar Nuclear Plant P.O. Box 700 Spring City, Tennessee 37381

Mr. P. S. Tam, Senior Project Manager U.S. Nuclear Regulatory Commission One White Flint, North 11555 Rockville Pike Rockville, Maryland 20852

Mr. B. A. Wilson, Project Chief U.S. Nuclear Regulatory Commission Region II 101 Marietta Street, NW, Suite 2900 Atlanta, Georgia 30323

ENCLOSURE

GENERIC LETTER 88-20, SUPPLEMENT 4 INDIVIDUAL PLANT EXAMINATION OF EXTERNAL EVENTS (IPEEE) LIST OF COMMITMENTS

- 1. TVA will submit the results of the IPEEE for WBN Unit 1 and Common by or before June 1994 as requested by the generic letter.
- 2. TVA will complete the IPEEE for WBN Unit 2 and will submit the results to NRC before Unit 2 fuel load.