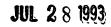


Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381

William J. Museler Site Vice President Watts Bar Nuclear Plant



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

Gentlemen:

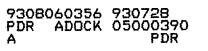
In the Matter of the Application of<br/>Tennessee Valley AuthorityDocket Nos. 50-390<br/>50-391

WATTS BAR NUCLEAR PLANT (WBN) - EMERGENCY CORE COOLING SYSTEM (ECCS) EVALUATION MODEL CHANGES (TAC NOS. M86069 AND M86070)

This letter provides a schedule for reanalysis of the large-break loss-ofcoolant accident (LBLOCA) for WBN as requested in a letter from NRC dated May 19, 1993. The LBLOCA reanalysis will be performed no later than the end of the second refueling outage after WBN receives an operating license. It will incorporate the ECCS evaluation model changes that were reported to NRC in a letter dated March 17, 1993. Please note that this schedule for LBLOCA reanalysis is based on an anticipated change to WBN's fuel cycle and, should that change be delayed, TVA would also delay the LBLOCA reanalysis.

TVA's letter dated March 17, 1993, was submitted in accordance with the provisions of 10 CFR 50.46. The letter reported recent ECCS model changes that had a combined effect exceeding the 50°F threshold value for a "significant change" in the calculated value of peak cladding temperature (PCT) for a LBLOCA. The sum of the absolute magnitudes of the various PCT assessments for LBLOCA analysis was 53°F, although the net assessment was only +3°F. WBN's calculated PCT for a LBLOCA, including the assessments for ECCS model changes, is 2129°F. This is below the safety limit of 2200°F that is established in 10 CFR 50.46(b)(1).

Currently, TVA does not plan to perform a new LBLOCA analysis prior to fuel loading for WBN since the ECCS model changes that have been identified to date do not create a safety concern and the resulting net assessment against calculated PCT is only 3°F. On this basis, TVA stated in its letter dated March 17, 1993, that the need for LBLOCA reanalysis would be further



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evaluated in WBN's next report of ECCS evaluation model changes. However, the NRC letter dated May 19, 1993, stated that the staff's review of WBN's recent ECCS model changes could not be completed without a specific schedule for LBLOCA reanalysis. NRC's requirement for a definite schedule to perform LBLOCA reanalysis was confirmed in a telephone conversation with Mr. Peter Tam of the NRC staff on June 8, 1993. TVA currently plans to perform the LBLOCA reanalysis for WBN's second refueling outage to correspond with the anticipated phase-in of an 18-month fuel cycle. Also, actual operating data on WBN's reactor coolant system parameters will be available by that time to use in the reanalysis in place of theoretical design values. Note that, if WBN's fuel cycle plans change, TVA will reschedule the LBLOCA reanalysis accordingly.

The enclosure restates the commitment identified in this letter. If you have any questions about the information provided in this letter, please telephone John Vorees at (615) 365-8819.

Very truly yours,

William J. Museler

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 U.S. Nuclear Regulatory Commission Region II

> 101 Marietta Street, NW, Suite 2900 Atlanta, Georgia 30323

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GLP: JV: NCH cc (Enclosure): M. K. Brandon, NET E7-WBN S. O. Casteel, FSB 2K-WBN E. S. Christenbury, ET 11H-K J. D. Christensen, QAC 1A-WBN W. R. Cobean, Jr., LP 3B-C L. M. Cuoco, LP 5B-C W. L. Elliott, IOB 1A-WBN M. J. Fecht, LP 5B-C R. W. Huston, Rockville Licensing Office R. W. Johnson, FSB 2Q-WBN N. C. Kazanas, FSB 1B-WBN T. J. McGrath, LP 3B-C R. M. McSwain, MR 2C-C D. E. Moody, MOB 2R-WBN G. R. Mullee, BR 5A-C D. E. Nunn, LP 3B-C D. E. Nunn, FSB 1A-WBN B. S. Schofield, LP 5B-C Sequoyah Licensing Files, OPS 4C-SQN RIMS, QAC 1G-WBN

## ENCLOSURE

## List of Commitments

• The large-break loss-of-coolant accident (LBLOCA) reanalysis will be performed no later than the end of the second refueling outage after WBN receives an operating license. It will incorporate the emergency core cooling system evaluation model changes that were reported to NRC in a letter dated March 17, 1993. Please note that this schedule for LBLOCA reanalysis is based on an anticipated change to WBN's fuel cycle and, should that change be delayed, TVA would also delay the LBLOCA reanalysis.