



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

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10 CFR 50.54(f)

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

Gentlemen:

In the Matter of)
Tennessee Valley Authority (TVA))

Docket No. 50-390

**WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 - SUPPLEMENTAL RESPONSE TO
NUCLEAR REGULATORY COMMISSION (NRC) GENERIC LETTER (GL) 2004-02,
POTENTIAL IMPACT OF DEBRIS BLOCKAGE ON EMERGENCY RECIRCULATION
DURING DESIGN BASIS ACCIDENTS AT PRESSURIZED-WATER REACTORS (PWR) -
NOTICE OF COMPLETION (TAC NO. MC4730)**

- References: 1) TVA letter to NRC dated August 8, 2003, "Watts Bar Nuclear Plant (WBN) Unit 1 - Response to Bulletin 2003-01 - Potential Impact of Debris Blockage on Emergency Sump Recirculation at Pressurized Water Reactors"
- 2) TVA Letter to NRC dated September 1, 2005, "Watts Bar Nuclear Plant (WBN) Unit 1 - NRC Generic Letter (GL) 2004-02: Potential Impact of Debris Blockage on Emergency Recirculation During Design Basis Accidents at Pressurized Water Reactors (PWR) - Second Response (TAC No. MC4730)"
- 3) TVA Letter to NRC dated April 11, 2006, "Watts Bar Nuclear Plant (WBN) Unit 1 - Generic Letter 2004-02 Potential Impact of Debris Blockage on Emergency Recirculation During Design Basis Accidents at Pressurized Water Reactors (PWR) - Response to Request for Additional Information (TAC No. MC4730)"
- 4) TVA letter to NRC dated July 3, 2006, "Watts Bar Nuclear Plant (WBN) Unit 1 - Generic Letter 2004-02 - Request for Additional Information Regarding the Nuclear Regulatory Commission Staff Audit on the Containment Sump Modifications (TAC No. MC4730)"
- 5) NRC Letter to TVA dated February 7, 2007, "Watts Bar Nuclear Plant, Unit 1 - Audit Report of New Strainer Design in Response to Generic Letter 2004-02 and Generic Safety Issue - 191"

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- 6) TVA Letter to NRC dated August 1, 2007, "Watts Bar Nuclear Plant (WBN) Unit 1 - Generic Letter 2004-02 - Potential Impact of Debris Blockage on Emergency Recirculation During Design Basis Accidents at Pressurized Water Reactors - Request for Extension of Completion Date for Corrective Actions (TAC No. MC4730)"
- 7) TVA Letter to NRC dated October 2, 2007, "Watts Bar Nuclear Plant (WBN) Unit 1 - Generic Letter 2004-02 - Potential Impact of Debris Blockage on Emergency Recirculation During Design Basis Accidents at Pressurized Water Reactors - Request for Extension of Completion Date for Corrective Actions (TAC No. MC4730) Revised"
- 8) NRC letter to Nuclear Energy Institute (NEI) date November 21, 2007, "Revised Content Guide for Generic Letter 2004-02 Supplemental Responses"
- 9) NRC Letter to TVA dated December 6, 2007, "Watts Bar Nuclear Plant, Unit 1 - Generic Letter 2004-02, 'Potential Impact of Debris Blockage on Emergency Recirculation During Design-Basis Accidents at Pressurized Water Reactors,' Extension Request Evaluation (TAC No. MC4730)"

The purpose of this letter is to provide the remaining information to support NRC verification that the completed corrective actions to address GL 2004-02 for WBN are adequate. This response was prepared using the guidelines set forth in Reference 8.

Enclosure 1 provides the necessary supplemental response addressing GL actions at WBN Unit 1, using the guidelines set forth in Reference 8. Enclosure 2 addresses the 11 remaining open audit items described in Reference 5.

In References 6 and 7, TVA notified the NRC that final corrective actions to reduce fiber insulation quantities would be completed during the Unit 1 Cycle 8 Outage. Reference 9 approved TVA's request to extend completion of the GL 2004-02 corrective actions until the Cycle 8 Outage. In discussion with the NRR Project Manager, the generic industry supplemental response due date of February 29 was extended for WBN to the end of March to allow for completion of the GL 2004-02 actions that were being implemented in the Spring 2008 Cycle 8 Outage. This extension eliminated the need for preparation and review of two separate submittals for status and completion. The Cycle 8 Outage actions have now been completed. TVA previously completed the design and installation of the sump strainers during the Unit 1, Cycle 7 refueling outage as committed in Reference 1. TVA corrective actions for GL 2004-02 are now complete.

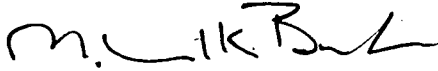
There are no new commitments made in this letter. If you have any questions concerning this matter, please contact me at (423) 365-1824.

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I declare under penalty of perjury that the foregoing is true and correct. Executed on the 31st day of March 2008.

Sincerely,



Michael K. Brandon
Manager, Site Licensing and
Industry Affairs

MKB:baw
Enclosures
cc (Enclosures):

NRC Resident Inspector
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