



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

June 28, 2010

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

Watts Bar Nuclear Plant, Unit 2
NRC Docket No. 50-391

Subject: **Watts Bar Nuclear Plant, Unit 2 - Request for Additional Information (RAI) Regarding Licensee's Final Safety Analysis Report Amendment Related to Section 4.2.2," Reactor Vessel Internal Components" (TAC No. ME2731)**

- References:
1. NRC letter to TVA dated March 11, 2010, "Watts Bar Nuclear Plant, Unit 2 - Request for Additional Information Regarding Licensee's Final Safety Analysis Report Amendment Related to Section 4.2.2, 'Reactor Vessel Internal Components' (TAC No. ME2731)" [ML100550007]
 2. TVA Letter to NRC dated April 9, 2010, "Watts Bar Nuclear Plant (WBN) Unit 2 - Response to U.S. Nuclear Regulatory Commission (NRC) Request for Additional Information Regarding Licensee's Final Safety Analysis Report (FSAR) Amendment Related to Section 4.2.2, 'Reactor Vessel Internal Components' (TAC NO. ME2731)" [ML101040573]

Reference 1 provided the subject RAI. In Reference 2, among other correspondence, TVA responded to the RAI with the following commitment, "As stated in the above response, the HTH process was not used for the Alloy X-750 bolting material. The impact of this condition is currently being reviewed by Westinghouse. Following receipt of the Westinghouse recommended plan for resolution, TVA will provide the plan to the NRC by June 30, 2010."

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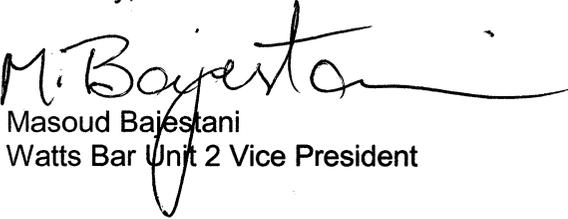
Upon review of relevant operating history and test data, Westinghouse recommended that TVA change the current Unit 2 clevis insert bolts to the latest design which uses an X-750 alloy with an HTH heat treatment, rolled threads and larger radius on the undercut of the cap screw head. Westinghouse found that the HTH heat treatment greatly improves resistance to Primary Water Stress Corrosion Cracking in X-750 alloy. With a change in the material heat treatment along with the bolt design modifications to reduce stresses in high stress areas, Westinghouse believes that this design will provide an effective improvement over the clevis insert bolts currently installed in Unit 2.

TVA concurs with this recommendation and will replace the bolts prior to WBN Unit 2 operation.

Enclosure 1 identifies TVA's commitment.

If you have any questions, please contact me at (423) 365-2351.

Sincerely,



Masoud Bajestani
Watts Bar Unit 2 Vice President

Enclosure:

1. List of Regulatory Commitments

cc (Enclosure):

U. S. Nuclear Regulatory Commission
Region II
Marquis One Tower
245 Peachtree Center Ave., NE Suite 1200
Atlanta, Georgia 30303-1257

NRC Resident Inspector Unit 2
Watts Bar Nuclear Plant
1260 Nuclear Plant Road
Spring City, Tennessee 37381

Enclosure 1

List of Regulatory Commitments

1. TVA will change the current Unit 2 clevis insert bolts to the latest design which uses an X-750 alloy with an HTH heat treatment, rolled threads and larger radius on the undercut of the cap screw head. TVA will replace the clevis insert bolts prior to Unit 2 operation.