



Tennessee Valley Authority
1101 Market Street, LP 3R
Chattanooga, Tennessee 37402-2801

R. M. Krich
Vice President
Nuclear Licensing

August 19, 2011

10 CFR 50.55a

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

Watts Bar Nuclear Plant, Unit 1
Facility Operating License No. NPF-90
NRC Docket No. 50-390

Subject: American Society of Mechanical Engineers Section XI, Inservice Inspection, System Pressure Test, Containment Inservice Inspection, and Repair and Replacement Programs - Owner's Activity Report for Cycle 10 Operation

The Tennessee Valley Authority is submitting the Watts Bar Nuclear Plant, Unit 1, American Society of Mechanical Engineers (ASME), Section XI, Owner's Activity Report for Unit 1 Cycle 10 operation as required by Article IWA-6000, Section XI, Division 1. The report is contained in the enclosure to this letter and is in accordance with the requirements of ASME Code Case N-532-4, "Repair/Replacement Activity Documentation Requirements and Inservice Summary Report Preparation and Submission."

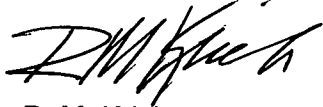
The report is an overview of the results from inservice examinations that were performed on components within the ASME Section XI boundary, up to and including the Unit 1 Cycle 10 refueling outage, during the second inspection period of the second 10-year inspection interval. The applicable provisions of the ASME Code require that this report be submitted 90 days from the end of the applicable outage, i.e., by August 19, 2011.

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NRK

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There are no new regulatory commitments in this letter. If you have any questions regarding these reports, please contact Kara Stacy at (423) 751-3489.

Respectfully,

A handwritten signature in black ink, appearing to read 'R. M. Krich', written in a cursive style.

R. M. Krich

Enclosure: American Society of Mechanical Engineers, Section XI, Second
10-Year Inspection Interval, Inservice Inspection Owner's Activity
Report for Cycle 10 Operation

cc (Enclosure):

NRC Regional Administrator - Region II
NRC Senior Resident Inspector - Watts Bar Nuclear Plant, Unit 1

Enclosure

Tennessee Valley Authority

Watts Bar Nuclear Plant, Unit 1

**American Society of Mechanical Engineers,
Section XI, Second 10-Year Inspection Interval**

**Inservice Inspection, System Pressure Test, Containment Inservice Inspection,
and Repair and Replacement Programs**

Owner's Activity Report for Cycle 10 Operation

Form OAR-1 Owner's Activity Report

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number U1C10 RFO

Plant Watts Bar Nuclear Plant, P.O. Box 2000, Spring City, TN 37381-2000

Unit No. 1 Commercial Service Date May 27, 1996 Refueling Outage No. RFO10
(if applicable)

Current Inspection Interval 2nd
(1st, 2nd, 3rd, 4th, other)

Current Inspection Period 2nd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the Inspection Plans 2001 Edition with 2003 Addenda

Date / Revision of Inspection Plans July 11, 2011 / 1-TRI-O-10.2, Revision 5

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans same

Code Cases used: N-460, N-513-3, N-526, N-532-4, N-566-2, N-586-1, N-624, N-695, N-686-1, N-706-1, N-722-1, N-729-1

CERTIFICATE OF CONFORMANCE

I certify that (a) the statements made in this report are correct; (b) the examinations and tests, meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of RFO10 conform to the requirements of Section XI (refueling outage number)

Signed

Rylee J. Gauthier
Owner or Owner's designee, Title

Date

8/4/2011**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB CT of Hartford, Connecticut have inspected the items described in this Owner's Activity Report, and state that to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI

By signing this certificate neither the Inspector nor his employer makes any warranty expressed or implied concerning the repair/ replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Bruce M. Earnigh
Inspector's Signature

Commissions

TN2534

National Board, State, Province, and Endorsements

Date

8/4/11

TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT
REQUIRED EVALUATION FOR CONTINUED SERVICE

Examination Category and Item Number	Item Description	Evaluation Description
None	None	None

TABLE 2
ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES
REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
Class 2	A leak located in a 1/2" instrument line between O-RTV-70-360A and the Component Cooling System header from the Spent Fuel Pool Heat Exchanger B	Replaced 1/2" instrument line	5/20/2011	WO 112177201