



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

February 19, 2010

10 CFR 50.55a(b)(2)(ix)
10 CFR 50.55a(g)(4)

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

Sequoyah Nuclear Plant, Unit 2
Facility Operating License No. DPR-79
NRC Docket No. 50-328

Subject: Unit 2 Cycle 16 - 90-Day Inservice Inspection Summary Report

In accordance with the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Article IWA-6230 and Code Case N-532-4, TVA is providing the Sequoyah Nuclear Plant, Unit 2 Inservice Inspection Summary Report within 90 days from completion of the inspections performed during the Unit 2 Cycle 16 (U2C16) refueling outage. The summary report contains an overview of the inservice examination results that were performed on ASME Class 1 and 2 components up to and including the U2C16 refueling outage during the second period of the third 10-year inspection interval. The Enclosure contains the Owner's Activity Report, an inservice inspection summary report, an evaluation of conditions for continued service (Table 1), an abstract of repair and replacement activities required for continued service (Table 2), and the ASME Section XI, Subsection IWE Steel Containment Inspection Summary.

Please direct any questions concerning this issue to J. W. Proffitt at (423) 843-6651.

Respectfully,

R. M. Krich
Vice President
Nuclear Licensing

Enclosure:

ASME Section XI Inservice Inspection Summary Report from Unit 2
Cycle 16

cc: See Page 2

ACT
NRK

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cc: (Enclosure)

NRC Regional Administrator – Region II
NRC Senior Resident Inspector – Sequoyah Nuclear Plant

ENCLOSURE

**TENNESSEE VALLEY AUTHORITY
SEQUOYAH NUCLEAR PLANT**

**ASME SECTION XI
INSERVICE INSPECTION SUMMARY REPORT
FROM UNIT 2 CYCLE 16**

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number U2C16RFO

Plant SEQUOYAH NUCLEAR PLANT, P.O. Box 2000, Soddy-Daisy, TN 37384-2000

Unit No. 2 Commercial service date June 1, 1982 Refueling outage no. Cycle 16
(if applicable)

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

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

Edition and Addenda of Section XI applicable to the inspection plans 2001 Edition, 2003 Addenda

Date and revision of inspection plans August 31, 2009 - O-SI-DXI-000.114.3, Revision 13

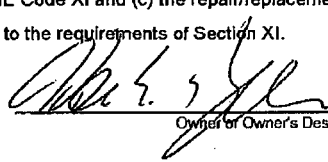
Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans Not Applicable

Code Cases used: N-460, N-526, N-532-4, N-586, N-624, N-648-1, N-658, N-686, N-695, N-706, N-722, N-729-1

CERTIFICATE OF CONFRONMANCE

I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan required by the ASME Code XI and (c) the repair/replacement activities and evaluations supporting the completion of U2C16 conform to the requirements of Section XI. (refueling outage number)

*Signed


Owner or Owner's Designee, Title

Date

2/16/2010

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 Hartford Insurance Co. of 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 make 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 manner for personal injury or property damage or a loss of any kind arising from or connected with this inspection.


Inspector's Signature

Commissions

TN 4107
National Board, State, Province, and Endorsements

Date

2/16/10

*One U2C16 ASME Section XI repair/replacement work plan package (Class 3) has not yet been reviewed, post work, due to the work package being lost. PER 216976 has been initiated to locate or recreate the package.

**ASME SECTION XI
INSERVICE INSPECTION SUMMARY REPORT
FROM UNIT 2 CYCLE 16**

The following limitations were noted during the performance of examinations during the Unit 2 Cycle 16 refueling outage and a relief request will be initiated in accordance with the applicable 10CFR50.55a requirements.

Component Number	Exam Cat.	Exam Item No.	Description of Limitation
RCW-21	B-D	R1.11	Examination volume achieved: 59.5%. Pressurizer surge nozzle exam was limited by pressurizer heater penetrations.
AFWF-007	R-A	R1.11	Examination volume achieved: 81.1%. Examination volume was limited by weld crown.
MSF-046B	R-A	B1.11	Examination volume achieved: 60.5%. This pre-service examination for installation of a new valve was limited by the flange to which the valve was welded.

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

Examination Category and Item Number	Item Description	Evaluation Description
F-A, F1.10C	Pipe Support 2-RCH-922, Spring can settings were slightly less than the designed range	Engineering evaluation acceptable-as-is.
E-A, E1.11	Surface pitting on penetration X-79A flange face.	Engineering evaluation acceptable-as-is.
E-A, E1.11	Surface pitting on penetration X-79B flange face.	Engineering evaluation acceptable-as-is.
F-A, F1.20C	Pipe Support 2-MSH-425, Spring can settings were slightly less than the designed range	Engineering evaluation acceptable-as-is.
F-A, F1.40E	Pipe Support 2-AFDH-061, Spring can settings were slightly less than the designed range and one bolt was missing from the pipe clamp.	Engineering evaluation acceptable-as-is for the support setting and replacement of missing bolt.
C-B, C2.21	Re-inspection of previously identified flaw in Steam Generator No. 1 nozzle MSW-1.	Essentially no change in flaw size or configuration. The previous Engineering acceptable-as-is evaluation remains valid.

**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
2	Pipe Support 2-AFDH-061	The missing bolt from the pipe clamp on the spring can support was replaced.	11/18/2009	Work Order No. 09-780221-000.

**REPORTING REQUIRED BY 10 CFR 50.55a(b)(2)(ix)
ASME SECTION XI, SUBSECTION IWE
STEEL CONTAINMENT VESSEL INSPECTION PROGRAM**

10 CFR 50.55a(b)(2)(ix) requires the reporting of inaccessible areas and additional examinations identified during the performance of the ASME Section XI, Subsection IWE Steel Containment Vessel Inspection Program when conditions exist in accessible areas that could indicate the presence of or result in degradation to such inaccessible areas.

The Class MC examinations performed during the Unit 2 Cycle 16 Refueling Outage did not identify degradation in accessible portions of the Steel Containment Vessel that would require additional examinations or evaluation of inaccessible areas.