



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37384-2000

February 12, 2008

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

Gentlemen:

In the Matter of ) Docket No. 50-327  
Tennessee Valley Authority (TVA) )

**SEQUOYAH NUCLEAR PLANT (SQN) - UNIT 1 CYCLE 15 (U1C15) 90-DAY INSERVICE INSPECTION (ISI) SUMMARY REPORT**

In accordance with the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Article IWA-6230, TVA is providing the SQN ISI Summary Report within 90 days from completion of the inspections performed during the U1C15 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 U1C15 refueling outage during the first inspection period of the third 10-year inspection interval. The enclosure contains the Owner's Activity Report, an abstract of examinations and tests (Table 1), evaluation of conditions for continued service (Table 2), repair and replacement activities (Table 3), and the ASME Section XI, subsection IWE steel containment inspections. This report is being provided in accordance with ASME Section XI and Code Case N-532-1.

This report does not contain TVA commitments. Please direct any questions concerning this issue to me at (423) 843-7170 or Russell R. Thompson at (423) 843-6672.

Sincerely,

James D. Smith  
Manager, Site Licensing and  
Industry Affairs

Enclosures  
cc: See page 2

U.S. Nuclear Regulatory Commission  
Page 2  
February 12, 2008

cc (Enclosures):

Mr. Thomas H. Boyce, Senior Project Manager  
U.S. Nuclear Regulatory Commission  
Mail Stop 08G-9a  
One White Flint North  
11555 Rockville Pike  
Rockville, Maryland 20852-2739

U.S. Nuclear Regulatory Commission  
Page 3  
February 12, 2008

RRT:JWP:KTS

cc (Enclosures):

Mr. Thomas H. Boyce, Senior Project Manager  
U.S. Nuclear Regulatory Commission  
Mail Stop 08G-9a  
One White Flint North  
11555 Rockville Pike  
Rockville, Maryland 20852-2739

G. Arent, EQB 1B-WBN  
W. R. Campbell, Jr., LP 3R-C  
C. R. Church, POB 2B-SQN  
J. E. Cipriani, OPS 4E-SQN  
T. P. Cleary, OPS 4A-SQN  
J. R. Douet, LP 3R-C  
K. R. Jones, OPS 4A-SQN  
L. E. Nicholson, BR 4X-C  
NSRB Support, LP 5M-C  
M. R. Purcell, BR 4X-C  
H. R. Rogers, LP 3R-C  
S. A. Vance, ET 10A-K  
E. J. Viglucci, ET 10A-K  
WBN Site Licensing Files, ADM 1L-WBN  
EDMS, WT CA-K

I:License/ASME ISI/U1C15 90-Day ISI Summary Report

**ENCLOSURE**

**TENNESSEE VALLEY AUTHORITY (TVA)  
SEQUOYAH NUCLEAR PLANT (SQN)  
UNIT 1**

**ASME SECTION XI  
INSERVICE INSPECTION SUMMARY REPORT  
FROM UNIT 1 CYCLE 15**

## FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number U1C15 RFO

Owner TVA Nuclear Power Group, 1101 Market Street, Chattanooga, TN 37402-2801  
(Name and Address of Owner)

Plant Sequoyah Nuclear Plant, P.O. Box 2000, Soddy-Daisy, TN 37384-2000  
(Name and Address of Plant)

Unit No. 1 Commercial service date July 1, 1981 Refueling Outage no. U1C15  
(if applicable)

Current Inspection Interval Third Ten Year Inspection Interval  
(1st, 2nd, 3rd, other)

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

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

Date and Revision of inspection plan Inspection Scan Plan Revision 1 dated 1/29/08

Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan Same as above

### CERTIFICATE OF CONFORMANCE

I certify that the statements made in this Owner's Activity Report are correct, and that the examinations, tests, repairs, replacement, evaluations and corrective measures represented by this report conform to the requirements of Section XI.

Certificate of Authorization No. NA Expiration Date NA  
(if applicable)

Signed [Signature], MECH ENGR Date 29 JANUARY 2008  
Owner or Owner's Designee, Title

### 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 requirement of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, repairs, replacements, evaluations, and corrective measures 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 the connected with this Inspection.

[Signature] Commissions TN # 2693  
Inspector's Signature National Board, State, Province and Endorsements

Date Jan. 29, 2008

**TABLE 1  
ABSTRACT OF EXAMINATIONS AND TESTS**

Examination Category	Total Examinations Required for The Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date for The Interval	Remarks
B-A	14	0	0	0	Note 1
B-B	5	0	0	0	
B-D	36	4	67	11	
B-F	NA	NA	NA	NA	Note 4
B-G-1	241	0	0	0	Note 2
B-G-2	78	3	18	3	Note 2
B-J	NA	NA	NA	NA	Note 4
B-K	7	1	50	14	
B-L-1	1	0	0	0	
B-L-2	1	0	0	0	Note 2
B-M-2	6	2	33	33	Note 2
B-N-1	1	0	0	0	
B-N-2	6	0	0	0	Note 1
B-N-3	1	0	0	0	Note 1
B-O	2	0	0	0	Note 1
B-P	6	1	100	16	Note 5
B-Q	NA	NA	NA	NA	Note 6
C-A	17	0	0	0	Note 1
C-B	12	0	0	0	
C-C	33	4	57	12	
C-D	16	0	0	0	
C-F-1	NA	NA	NA	NA	Note 4
C-F-2	NA	NA	NA	NA	Note 4
C-G	NA	NA	NA	NA	Note 7
C-H	30	7	70	23	
D-A	30	1	11	3	
D-B	21	2	28	9	
F-A	315	41	45	13	
R-A	69	13	59	18	

Notes:

1. Deferral to the end of the interval is permissible.
2. The examinations in this category are event related. They are only required if a subject pump or valve is disassembled during a maintenance activity.
3. This is the first outage in the first period of the Third Interval. Another outage is scheduled in this period.
4. B-F, B-J, C-F-1, and C-F-2 welds are included in the Risk Informed Category R-A.
5. The RCS leakage test is performed every outage.
6. B-Q examinations of Steam Generator tubing is governed by plant Technical Specifications.
7. There are no C-G welds.

**TABLE 2**  
**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT**  
**REQUIRED EVALUATION FOR CONTINUED SERVICE**

Examination Category	Item Number	Item Description	Flaw Characterization (IWA-3300)	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
There are no items to report for this cycle.				





**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.

For the examinations performed during the Unit 1 Cycle 15 Refueling Outage, there were no inaccessible areas identified. There were no additional examinations required as well.