



Sequoyah Nuclear Plant, Post Office Box 2000, Soddy Daisy, Tennessee 37384

August 4, 2021

10 CFR 50.4
10 CFR 50.55a

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

Sequoyah Nuclear Plant, Unit 1
Renewed Facility Operating License No. DPR-77
NRC Docket No. 50-327

Subject: **Unit 1 Cycle 24 Refueling Outage - 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-6240 and Code Case N-532-5, the Tennessee Valley Authority is providing the Sequoyah Nuclear Plant (SQN), Unit 1, Inservice Inspection (ISI) Summary Report within 90 days from completion of the Unit 1 Cycle 24 Refueling Outage (U1C24). The U1C24 refueling outage ended on May 10, 2021. Accordingly, this report is required to be submitted by August 8, 2021.

The Enclosure to this letter contains the Owner's Activity Report, a list of items with flaws or relevant conditions that required evaluation for continued service (Table 1), an abstract of repair and replacement activities required for continued service due to a flaw or relevant condition (Table 2), and the evaluation of acceptability of inaccessible areas of the steel containment vessel in accordance with 10 CFR 50.55a(b)(2)(ix)(A).

There are no new regulatory commitments associated with this submittal. Should you have any questions, please contact Mr. Jeff Sowa, Site Licensing Manager at (423) 843-8129.

Respectfully,

Thomas B. Marshall
Site Vice President
Sequoyah Nuclear Plant

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Enclosure: ASME Section XI Inservice Inspection Summary Report,
Unit 1 Cycle 24 Refueling Outage

cc (Enclosure):

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

ENCLOSURE

**TENNESSEE VALLEY AUTHORITY
SEQUOYAH NUCLEAR PLANT, UNIT 1**

**ASME SECTION XI
INSERVICE INSPECTION SUMMARY REPORT
UNIT 1 CYCLE 24 REFUELING OUTAGE**

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number U1R24

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

Unit No. 1 Commercial service date July 1, 1981 Refueling outage no. 24
(if applicable)

Current inspection interval Fourth inspection interval
(1st, 2nd, 3rd, 4th, other)

Current inspection period Second Inspection Period of the Fourth Interval for ISI
First Inspection Period of the Fourth Interval for IWE
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans 2007 Edition, 2008 Addenda

Date and revision of inspection plans November 8, 2019 - 0-PI-DXI-000-114.4 Revision 2
March 10, 2020 - 0-PI-DXI-000-114.4 Revision 3
August 25, 2020 - 0-PI-DXI-000-114.4 Revision 4
September 12, 2018 - 0-PI-DXI-000-116.3 Revision 0

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

Code Cases used: N-508-4, N-513-3, N-532-5, N-586-1, N-716-1, N-722-1, N-729-4, N-729-6, N-770-2, N-770-5
(if applicable, including cases modified by Case N-532 and later revisions)

CERTIFICATE OF CONFORMANCE

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 U1R24 conform to the requirements of Section XI. (refueling outage number)

Signed Merrill, James Dylan Digitally signed by Merrill, James Dylan Date: 2021.07.01 15:32:31 -0400 R/R Program Owner Date
Brevard, Darien Wayne Digitally signed by Brevard, Darien Wayne Date: 2021.07.01 14:30:10 -0400
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 employed by The Hartford Steam Boiler Inspection and Insurance Company of Hartford, CT 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 manner for personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions N 14730 I N R
Inspector's Signature (National Board and Endorsement)

Date 2 July 2021

**ASME SECTION XI
INSERVICE INSPECTION SUMMARY REPORT
SEQUOYAH NUCLEAR PLANT UNIT 1 CYCLE 24 REFUELING OUTAGE**

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 REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
3	SQN-1-VLV-067-0520A	Replace piping	5/7/2021	121604966
2	SQN-1-VLV-001-0621	Replace bolting	5/11/2021	121975429
2	SQN-1-VLV-003-0511	Replace bonnet bolting	5/8/2021	122073065

**REPORTING REQUIRED BY 10 CFR 50.55a(b)(2)(ix)(A)
ASME Section XI, Subsection IWE
Steel Containment Vessel Inspection Program**

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

There were no conditions identified during the Unit 1 Cycle 24 refueling outage on the items examined that prompted an evaluation of the inaccessible area of the SCV, as required.