



Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

June 24, 2020

10 CFR 50.55a

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

Browns Ferry Nuclear Plant, Unit 3
Renewed Facility Operating License No. DPR-68
NRC Docket No. 50-296


Subject: **American Society of Mechanical Engineers, Section XI, Fourth 10 Year Inspection Interval, Inservice Inspection, System Pressure Test, Containment Inspection, and Repair and Replacement Programs, Owner's Activity Report for Browns Ferry Nuclear Plant, Unit 3, Cycle 19 Operation**

The Tennessee Valley Authority is submitting the Browns Ferry Nuclear Plant (BFN), American Society of Mechanical Engineers (ASME), Section XI, Owner's Activity Report for BFN, Unit 3, Cycle 19 Operation. The report is contained in the enclosure to this letter and is in accordance with the requirements of ASME Code Case N-532-5, Repair/Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission, Section XI, Division 1.

The report is an overview of the inservice examination results that were performed on components within the ASME Section XI boundary, up to and including the BFN, Unit 3, Cycle 19 refueling outage, during the second inspection period of the Fourth 10 Year Inspection Interval. The applicable provisions of the ASME Code Case N-532-5 require that this report be submitted within 90 calendar days of the completion of each refueling outage. The BFN, Unit 3, Cycle 19 refueling outage ended on March 26, 2020. Accordingly, this submittal is due by June 24, 2020.

There are no new regulatory commitments contained in this letter. Should you have any questions concerning this submittal, please contact J. L. Paul, Site Licensing Manager, at (256) 729-2636.

Respectfully,

A handwritten signature in black ink, appearing to be 'S. M. Bono', written over a horizontal line.

S. M. Bono
Site Vice President

Enclosure: American Society of Mechanical Engineers, Section XI, Fourth 10 Year Inspection Interval, Inservice Inspection, System Pressure Test, Containment Inspection, and Repair and Replacement Programs, Owner's Activity Report for Browns Ferry Nuclear Plant, Unit 3, Cycle 19 Operation

cc (Enclosure): NRC Regional Administrator – Region II
NRC Senior Resident Inspector – Browns Ferry Nuclear Plant
NRC Project Manager – Browns Ferry Nuclear Plant

Enclosure

Tennessee Valley Authority

**Browns Ferry Nuclear Plant
Unit 3**

**American Society of Mechanical Engineers,
Section XI, Fourth 10 Year Inspection Interval, Inservice Inspection,
System Pressure Test, Containment Inservice Inspection,
and Repair and Replacement Programs,
Owner's Activity Report for Browns Ferry Nuclear Plant, Unit 3, Cycle 19 Operation**

See Enclosed

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number BFN U3R19

Plant Browns Ferry Nuclear Plant, P.O. Box 2000, Decatur, AL 35609

Unit No. 3 Commercial service date March 1, 1977 Refueling Outage no. Refueling Outage 19
(if applicable)

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

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

Edition and Addenda of Section XI applicable to the inspection plans 2007 Edition, 2008 Addenda (ISI)
2013 Edition (CISI)

Date and Revision of inspection plan 0-TTP-ENG-376, Revision 0001, 10/03/2019
0-TI-364, Revision 0022, 09/19/2018
0-SI-4.6.G, Revision 0005, 02/27/2020

Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan N/A

Code Cases used for inspection and evaluation: N-508-4, N-513-3, N-526, N-532-5, N-586-1, N-613-2, N-648-1, N-702, N-716-1, N-735, N-747, and N-751
(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 as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of U3R19 conform to the requirements of Section XI. (refueling outage number)

Signed  R.S.D. Date 6/17/2020
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, 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.

 Commissions NB 13977 I, N, R
Inspector's Signature National Board Number and Endorsement

Date 6/17/2020

FORM OAR-1 OWNER'S ACTIVITY REPORT

TABLES

Report Number BFNU3R19
 Plant Browns Ferry
 Unit No. 3 Commercial service date 03/01/1977 Refueling outage no. 19
 Current inspection interval 4th Current inspection period 2nd

TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRE
EVALUATIONS FOR CONTINUED SERVICE

Examination Category and Item Number	Item Description	Evaluation Description
F-A / F1.30D	Main Steam System Mechanical Snubber, 3-47B401-24	CR 1589844, NOI U3R19-001 A mechanical snubber was found with loose bolting on the riser clamp. Civil Engineering evaluated the conditions identified and concluded that the snubber would still be able to perform its intended design function with the loose bolting. The bolting was tightened in accordance with design configuration.
F-A / F1.30D	Main Steam System Mechanical Snubber, 3-47B401-21	CR 1589851, NOI U3R19-002 A mechanical snubber was found with loose bolting on the riser clamp. Civil Engineering evaluated the conditions identified and concluded that the snubber would still be able to perform its intended design function with the loose bolting. The bolting was tightened in accordance with design configuration.
F-A / F1.10D	Feedwater System Hydraulic Snubber, 3-47B415-21	CR 1590623, NOI U3R19-003 A hydraulic snubber was found with a missing cotter pin at the clevis plate. The associated clevis pin was still in place allowing the support to provide its intended design function. A new cotter pin was installed per design configuration.
F-A / F1.10C	Residual Heat Removal System Variable Support, 3-47B452-3044	CR 1592392, NOI U3R19-004 A variable support was found to have a missing load plate making it unable to verify the support settings. Measurements to determine spring position were taken using reference points and provided to Civil Engineering. Civil Engineering evaluated the conditions identified, found that the spring was outside of the specified range, and concluded that the variable support could still perform its intended design function. The spring can load plate was reset per Civil Engineering instructions.

FORM OAR-1 OWNER'S ACTIVITY REPORT

TABLES

Report Number BFNU3R19
Plant Browns Ferry
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TABLE 2

ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
None	None	None	None	None

FORM OAR-1 OWNER'S ACTIVITY REPORT

TABLES

Report Number	BFNU3R19		
Plant	Browns Ferry		
Unit No.	3	Commercial service date	03/01/1977 Refueling outage no. 19
Current inspection interval	4th	Current inspection period	2nd

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.

During BFN U3R19, the moisture seal barrier (MSB) of the SCV was identified to have conditions requiring examination of inaccessible areas beneath the barrier. The inaccessible areas of the SCV beneath the MSB were determined to be acceptable by visual examination. These conditions were identified and resolved under NOI U3R19-006. No corrective actions are required.