



H. Duncan Brewer
Director, Organizational Effectiveness
Harris Nuclear Plant
5413 Shearon Harris Road
New Hill NC 27562-9300

919.362.2305

March 7, 2014
Serial: HNP-14-026

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

10 CFR 50.55a

Shearon Harris Nuclear Power Plant, Unit 1
Docket No. 50-400

Subject: 90-day Inservice Inspection Summary Report

Ladies and Gentlemen:

In accordance with 10 CFR 50.55a, Duke Energy Progress, Inc., submits the attached Inservice Inspection Summary Report for the Harris Nuclear Plant. This report has been prepared in accordance with Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, 2001 Edition with addenda through 2003 as amended by ASME Code Case N-532-4, Section XI, Division 1. This report is for Harris Nuclear Plant's Cycle 18 Operations and Refueling Outage 18 of the third 10-year Inservice Inspection interval.

This letter contains no new or revised Regulatory Commitments.

Please address any comments or questions regarding this matter to David Corlett, Regulatory Affairs Manager, at 919-362-3137.

Sincerely,

A handwritten signature in black ink, appearing to read "H. Duncan Brewer", written in a cursive style.

H. Duncan Brewer

Enclosure: 90-day Inservice Inspection Summary Report

cc: Mr. J. D. Austin, NRC Sr. Resident Inspector, HNP
Mr. A. Hon, NRC Project Manager, HNP
Mr. V. M. McCree, NRC Regional Administrator, Region II

HNP-14-026
Enclosure

Shearon Harris Nuclear Power Plant, Unit 1
Docket No. 50-400
90-day Inservice Inspection Summary Report
(4 pages plus cover)

Summary

The Shearon Harris Nuclear Power Plant Unit 1 Third Ten Year In-service Inspection (ISI) Plan complies with 10CFR50.55a(g), which implements, by reference, the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, 2001 Edition with 2003 Addenda.

This summary report is being submitted pursuant to the reporting requirements of ASME Section XI as amended by ASME Code Case N-532-4, "Repair/Replacement Activity Documentation Requirements and Inservice Summary Report Preparation and Submission Section XI, Division 1".

Contained within this summary report are the form OAR-1 (Owner's Activity Report) and Tables 1 and 2 of Code Case N-532-4 for Harris Nuclear Plant during cycle 18 and Refueling Outage 18 (RFO-18). RFO-18 is the third and last outage of the second period in the third inspection interval and includes the Repair/Replacement activities from August 29, 2012 through February 11, 2014.

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number: HNP- 14-026 Plant: Harris Nuclear Plant, 5413 Shearon Harris Road, New Hill, NC 27562

Unit No.: 1 Commercial Service Date: May 2, 1987 Refueling Outage No.: RFO-18

Current Inspection Interval: Third Interval Current Inspection Period: Second Period

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

Date and Revision of Inspection Plans: October 22, 2013 Revision 4

Edition and Addenda of Section XI Applicable to Repair/Replacement Activities, if Different than the Inspection Plans: N/A

Code Cases Used: N-513-3, N-532-4, N-638-1, N-685, N-722-1, N-705 and N-729-1

Certificate of Conformance ISI Inspections

I certify that (a) the statements made in this report are correct; and (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and the completion of RFO-18 conform to the requirements of Section XI.

Signed Angela Staller Angela Staller, ISI Program Manager Date 2/19/2014

Certificate of Conformance ISI Repair/Replacement

I certify that (a) the statements made in this report are correct; and (b) the repair/replacement activities and evaluations supporting the completion of RFO-18 conform to the requirements of Section XI.

Signed Robert H Cline Robert Cline, Repair/Replacement PM Date 2/19/2014

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 North Carolina and employed by HSBCT 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 any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Nancy Retche Slaughter Inspector's Signature Commissions NB8447 NCU109 ABHI IS
National Board, State, Province, and Endorsements

Date 2/19/2014

Table 1

Items with Flaws or Relevant Conditions That Required Evaluation for Continued Service

Examination Category and Item Number	Item Description	Evaluation Description
Cat D-B, Item D2.10 (R/R Plan numbers 02122419 01 and 02122419 04)	Spent Fuel System Piping line 3SF12-176SB-1-4 weld leaks	The leaks were evaluated and determined acceptable for continued service by Relief Request I3R-10 using the guidance of Code Case N-513-3. The leaks were repaired during cycle 18.
Cat D-B, Item D2.10 (R/R Plan number 02156640 01)	Containment Spray Additive tank weld leaks	The leaks were evaluated and determined acceptable for continued service in accordance with Code Case N-705. The leaks were repaired during Refueling Outage 18.

Table 2

Abstract of Repair/Replacement Activities Required for Continued Service

CLASS	Component ID	Description of Work	Date Completed	R/R Plan Number
1	1RC-E001	Inside Diameter Temper Bead (IDTB) weld repair of RPV Closure Head CRDM nozzle 49 following detection of PWSCC. (Relief Request, I3R-11)	08/13/2013	02242618 09
1	1RC-E001	Inside Diameter Temper Bead (IDTB) weld repair of RPV Closure Head CRDM nozzle 37 following detection of PWSCC. (Relief Request, I3R-13)	01/21/2014	02199346 11
1	1RC-903	Replaced valve to excessive leakage.	12/05/2013	02107310 01
1	SI-H-1092	Replaced snubber due to external corrosion.	02/10/2014	13321320 01
2	1CP-5	Replaced purge valve parts due to excessive leakage.	01/15/2014	02221878 01
2	1CS-761/1CS-762	Replaced drain valves to excessive leakage.	02/06/2014	02075029 04
3	3SF12-176SB-1-4	Defect removal and weld repair of piping through-wall leak. (Relief Request, I3R-10)	08/14/2013	02122419 01
3	3SF12-176SB-1-4	Replacement of weld and pipe piece due to piping through-wall leak. (Relief Request, I3R-10)	08/14/2013	02122419 14
3	1CT-CSAT	Weld Repair of through wall leaks on Spray Additive tank.	01/15/2014	02156640 01
3	3SF1-23SB-1-4 Coupling	Seal weld repair on pipe to coupling threaded joint due to leak.	09/24/2013	0189878 01
2	CT-H-0290B	Replacement of mechanical snubber following failed visual examination.	11/05/2013	02288447 01
3	1SW-E042	Weld build-up on eroded sections of ESW Strainer shell.	12/09/2013	02100800 05
3	SW-H-0153	Defect removal and weld repair of welded attachment.	01/08/2014	13319382 01