



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

919.362.2000

August 5, 2015
Serial: HNP-15-064

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

10 CFR 50.55a

Shearon Harris Nuclear Power Plant (HNP), Unit 1
Docket No. 50-400/Renewed License No. NPF-63

Subject: 90-day Inservice Inspection Summary Report

Ladies and Gentlemen:

In accordance with 10 CFR 50.55a, Duke Energy Progress, Inc. (Duke Energy), submits the attached Inservice Inspection Summary Report for the Shearon Harris Nuclear Plant (HNP). 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 HNP's Cycle 19 Operations and Refueling Outage 19 of the third 10-year Inservice Inspection interval.

This letter contains no new regulatory commitments.

Please address any comments or questions regarding this matter to John Caves at 919-362-2406.

Sincerely,

A handwritten signature in dark 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
Ms. M. Barillas, NRC Project Manager, HNP
Mr. V. M. McCree, NRC Regional Administrator, Region II

HNP-15-064

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63

Enclosure

90-day Inservice Inspection Summary Report
(5 pages including cover)

Summary

The Shearon Harris Nuclear Power Plant Unit 1 Third Ten Year Inservice 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 19 and Refueling Outage 19 (RFO-19). RFO-19 is the first of two outages of the third period in the third inspection interval and includes the Repair/Replacement activities from February 12, 2014 to May 15, 2015.

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number: HNP-15-064 Plant: Harris Nuclear Plant, 5413 Shearon Harris Road, New Hill, NC 27562

Unit No.: I Commercial Service Date: May 2, 1987 Refueling Outage No.: RFO-19

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

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

Date and Revision of Inspection Plans: June 25, 2014, Revision 6

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

Code Cases Used: N-460, N-508-3, N-513-3, N-528-1, N-532-4, N-566-2, N-578-1, N-586-1, N-638-1, N-685, N-700, N-729-1 and N-751

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-19 conform to the requirements of Section XI.

Signed Angela Staller Angela Staller, ISI Program Manager Date 7/28/2015

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-19 conform to the requirements of Section XI.

Signed Robert Cline Robert Cline, Repair/Replacement PM Date 7/28/2015

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 HSB Global Standards 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 Ritchie-Slaughter Commissions NB8447 NC1169 ABNI IS
Inspector's Signature National Board, State, Province, and Endorsements

Date 7/28/2015

Table 1**Items with Flaws or Relevant Conditions That Required Evaluation for Continued Service**

Exam Category and Item Number	Item Description	Evaluation Description
Category F-A, Item F1.30 (R/R Plan number 13355823-01)	Rigid strut support CH-H-1523 found corroded	Support evaluated as operable by Engineering Evaluation following discovery of corrosion. Strut and pipe clamp were replaced during outage R-19
Category D-B, Item D2.10 (R/R Plan number 13438655-01)	Through-wall leak found at weld on line 3SW1.5-292SA-1	Condition evaluated for operability per EC 98332(GL 90-05). Replaced piping online prior to outage R-19
Category D-B, Item D2.10 (R/R Plan number 13440780-09)	Through-wall leak found at weld on line 3SC4-8SB-1	Condition evaluated for operability per Code Case N-513-3. Replaced piping and fitting online prior to outage R-19
Category D-B, Item D2.10 (R/R Plan number 13488325-04)	Through-wall leak found at weld on line 3SW2-166SB-1	Evaluated as operable by Engineering Evaluation following discovery. Replaced piping during outage R-19
Category F-A, Item F1.10B	Clamp RH-H-0122 with lugs positioned inside box restraint found misaligned and rotated on pipe	Evaluated as operable by Engineering Evaluation following discovery. WO 13542938 initiated for corrective measures during outage R-20

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 CRD Penetration 14	Inside Diameter Temper Bead (IDTB) weld repair of RPV Closure Head CRDM nozzle 14 following detection of PWSCC (Ref. I3R-15 Revision 2)	5/03/2015	13355357-09
1	1RC-E001 CRD Penetration 18	Inside Diameter Temper Bead (IDTB) weld repair of RPV Closure Head CRDM nozzle 18 following detection of PWSCC (Ref. RR I3R-15 Revision 2)	5/03/2015	13355357-09
1	1RC-E001 CRD Penetration 23	Inside Diameter Temper Bead (IDTB) weld repair of RPV Closure Head CRDM nozzle 23 following detection of PWSCC (Ref. RR I3R-15 Revision 2)	5/03/2015	13355357-09
3	CH-H-1523	Replaced strut and pipe clamp due to excessive corrosion	2/01/2015	13355823-01
3	3SW1.5-292SA-1	Replaced piping due to through wall leak	10/28/2014	13438655-01
3	3SC4-8SB-1	Replaced welds and piping due to through wall leak	1/21/2015	13440780-09
3	3SW2-166SB-1	Replaced welds and piping due to through wall leak	4/13/2015	13488325-04
3	3CS3-163SN-1	Replaced welds and piping due to through wall leak	1/22/2015	13453597-01
3	3SW3-1752SB-1	Replaced welds, piping and fitting due to through wall leak	5/4/2015	13513568-01
3	1A-SA ESW Pump	Replaced pump due to shaft coupling bolting failure	5/12/2015	13519012-13