



Serial: HNP-09-076
10 CFR 50.55a

AUG 06 2009

U.S. Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/LICENSE NO. NPF-63
90-DAY INSERVICE INSPECTION (ISI) SUMMARY REPORT

Ladies and Gentlemen:

In accordance with 10 CFR 50.55a, Carolina Power and Light Company, doing business as Progress Energy Carolinas, Inc., submits the attached Inservice Inspection (ISI) Summary Report for the 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, and ASME Code Case N-532-4, as approved in Regulatory Guide 1.147. This report is for HNP's Cycle 15 operations and Refueling Outage No. 15 (RFO-15) of the third 10-year ISI interval.

This document contains no new regulatory commitments.

Please refer any question regarding this submittal to me at (919) 362-3137.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. H. Corlett'.

D. H. Corlett
Supervisor – Licensing/Regulatory Programs
Harris Nuclear Plant

DHC/kms

Enclosure

cc: Mr. J. D. Austin, NRC Sr. Resident Inspector, HNP
Mr. J. M. Given, Jr., NC Department of Labor, Boiler Safety Bureau
Mr. L. A. Reyes, NRC Regional Administrator, Region II
Ms. M. G. Vaaler, NRC Project Manager, HNP

Progress Energy Carolinas, Inc.
Harris Nuclear Plant
P. O. Box 165
New Hill, NC 27562

A047
HRR

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63
INSERVICE INSPECTION SUMMARY REPORT FOR RFO-15

CAROLINA POWER AND LIGHT COMPANY
dba
PROGRESS ENERGY CAROLINAS, Inc.
SHEARON HARRIS NUCLEAR POWER PLANT
Unit One

Inservice Inspection
Summary Report
For
RFO-15

Carolina Power and Light
PO Box 1551
Raleigh, NC 27602-1551

Shearon Harris Nuclear Power Plant
5413 Shearon Harris Road
New Hill, NC 27562

Date of Commercial Service
May 2, 1987

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63
INSERVICE INSPECTION SUMMARY REPORT FOR RFO-15

INDEX

Summary	Section 1
OAR-1 Form, Report of Inservice Inspections	Section 2
Table 1	Section 3
Table 2	Section 4

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63
INSERVICE INSPECTION SUMMARY REPORT FOR RFO-15

SECTION 1
(2 Pages)

SUMMARY

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63
INSERVICE INSPECTION SUMMARY REPORT FOR RFO-15

SUMMARY

The Shearon Harris Nuclear Power Plant, Unit 1, Third Ten-Year Inservice Inspection (ISI) Plan is being developed to comply 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.

The following summary report is being submitted pursuant to the reporting requirements of ASME Section XI as amended by ASME Code Case N-532-4.

This summary report contains the Form OAR-1 Owner's Activity Report and Tables 1 and 2 of the Code Case for Harris Nuclear Plant (HNP) during cycle 15 and Refueling Outage No. 15 (RFO-15). No indications were found that required evaluation for continued service. RFO-15 is the second outage of the first period in the third inspection interval and includes Repair/Replacement Activities from October 23, 2007 to August 03, 2009.

Enclosure 1 to SERIAL: HNP-09-076

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63
INSERVICE INSPECTION SUMMARY REPORT FOR RFO-15

SECTION 2
(2 Pages)

OAR-1 FORM
OWNER'S ACTIVITY REPORT

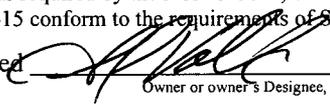
SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63
INSERVICE INSPECTION SUMMARY REPORT FOR RFO-15

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number HNP-09-076
Plant Harris Nuclear Plant, 5413 Shearon Harris Rd, New Hill, NC 27562
Unit No. I Commercial Service Date May 2, 1987 Refueling Outage No. RFO-15
Current Inspection Interval Third interval
Current Inspection period First period
Edition and Addenda of Section XI applicable to the inspection plan 2001 Edition with 2003 Addenda
Date and revision of inspection plan June 09, 2009
Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan _____
Code Cases used: N-307-3, N-460, N508-3, N-532-4, N-533-1, N-722, N-729-1

CERTIFICATE OF CONFORMANCE

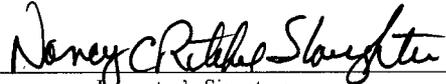
I certify that (a) the statements made in this Owner's Activity Report are correct; (b) and the examinations and tests met the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of RFO-15 conform to the requirements of Section XI.

Signed  S. J. Volk, ISI Program Manager Date August 03, 2009
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 North Carolina and employed by HSBCT 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/replacements 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.

Inspector's Signature  Commissions N B8447ABNI NC1169
National Board, State, Province, and Endorsements
Date 8/3/09

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63
INSERVICE INSPECTION SUMMARY REPORT FOR RFO-15

SECTION 3
(1 Page)

TABLE 1

ITEMS WITH FLAWS OR RELEVANT CONDITION THAT
REQUIRED EVALUATION FOR CONTINUED SERVICE

Examination Category and Item Number	Item Description	Evaluation Description
None		

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63
INSERVICE INSPECTION SUMMARY REPORT FOR RFO-15

SECTION 4
(2 Pages)

TABLE 2

ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63
INSERVICE INSPECTION SUMMARY REPORT FOR RFO-15

Table 2

Abstract of Repair/Replacement Activities Required for Continued Service

<i>Code Class</i>	<i>Item Description</i>	<i>Description of Work</i>	<i>Date Completed</i>	<i>Repair/Replacement Plan Number</i>
1	1RC-902	Replace valve	6 /8 /2009	0198181 -05
1	1RC-905	Rebuild valve	6 /9 /2009	0198188 -01
1	1RC-905	Replace valve	5 /28/2009	0198188 -04
3	1SW-19	Replace valve	5 /28/2009	0687148 -01
3	1SW-179	Replace valve	5 /28/2009	0687399 -05
3	1SW-206	Replace valve	5 /22/2009	0855580 -01
1	1RC3/4-133-SN1	Replace piping	6 /11/2009	1074620 -01
3	1CC-CCWHXA	Install pipe cap over 3/4" piping	1 /8 /2008	1120016 -04
2	1CS-347	Replace valve	6 /24/2009	1130793 -01
3	1SW-140	Replace valve and piping	6 /10/2009	1136644 -01
3	3SW1.5-167SA-1	Replace piping	5 /27/2009	1136644 -02
3	1SW-151	Replace valve and piping	6 /11/2009	1136644 -03
3	1CC-211	Replace valve	6 /24/2009	1155139 -01
2	1CV-E004	Remove coil; blind flange piping	8 /18/2008	1168269 -01
2	1CV-E004	Replace cooling coils	5 /28/2009	1168269 -05
3	AF-H-682	Add new support	8 /18/2008	1169868 -01
2	1CV-E004	Replace cooling coils and bolting	5 /22/2009	1278401 -01
2	1CS-382	Replace valve and piping	5 /28/2009	1304543 -01
3	1SW-83	Replace valve	5 /28/2009	1308702 -01
3	1SC-37	Replace valve plug	1 /15/2009	1313092 -01
3	3SW1-267SA-1	Install pipe cap over 1" piping	6 /10/2009	1355811 -06
2	1CT-119	Replace valve and piping	8 /18/2008	1375342 -04
1	1RC-115	Replace valve disc	5 /28/2009	1417909 -01
2	1CV-E005	Install blind flanges	10/27/2008	1434118 -01
2	1CV-E005	Install new cooling coils	5 /22/2009	1434118 -04
3	3SW1.5-389SB-1	Replace piping	5 /28/2009	1539081 -01
3	1AF-E003	Replace balancing line	5 /9 /2009	1541948 -01