

Southern Nuclear  
Operating Company, Inc.  
40 Inverness Center Parkway  
Post Office Box 1295  
Birmingham, Alabama 35201-1295  
Tel 205.992.5000



February 9, 2012

Docket Nos.: 50-364

NL-12-0242

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

Joseph M. Farley Nuclear Plant – Unit 2  
Refueling Outage 2R21 Inservice Inspection Report

Ladies and Gentlemen:

Southern Nuclear Operating Company (SNC) submits the Joseph M. Farley Nuclear Plant (FNP) - Unit 2, Interval 4, Period 2, Outage 1 Inservice Inspection Report (Enclosure). This report describes and summarizes the inservice inspection activities performed during the fall 2011 maintenance/refueling outage. Paragraph IWA-6240 of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, 2001 Edition with addenda through 2003, requires submittal of the enclosed report.

The supporting inservice inspection documentation (e.g., examination plans and schedules, examination results and reports, examination methods and procedures, evaluation results, and corrective action and repairs) is available for review upon request at FNP.

This letter contains no NRC commitments. If you have any questions, please contact Jack Stringfellow at (205) 992-7037.

Sincerely,

A handwritten signature in black ink that reads "Mark J. Ajluni". The signature is written in a cursive style with a large, stylized "M" and "A".

M. J. Ajluni  
Nuclear Licensing Director

MJA/EGA/lac

Enclosure: Joseph M. Farley Nuclear Plant - Unit 2, Inservice Inspection Report,  
Refueling Outage 2R21, Owners Report

cc: Southern Nuclear Operating Company  
Mr. S. E. Kuczynski, Chairman, President & CEO  
Mr. D. G. Bost, Executive Vice President & Chief Nuclear Officer  
Mr. T. A. Lynch, Vice President – Farley  
Mr. B. L. Ivey, Vice President – Regulatory Affairs  
Mr. B. J. Adams, Vice President – Fleet Operations  
RTYPE: CFA04.054

U. S. Nuclear Regulatory Commission  
Mr. V. M. McCree, Regional Administrator  
Mr. R. E. Martin, NRR Project Manager – Farley  
Mr. E. L. Crowe, Senior Resident Inspector – Farley

Joseph M. Farley Nuclear Plant – Unit 2  
Refueling Outage 2R21 Inservice Inspection Report

Enclosure

Joseph M. Farley Nuclear Plant - Unit 2  
Inservice Inspection Report  
Refueling Outage 2R21  
Owners Report

# **INSERVICE INSPECTION REPORT**

**REFUELING 21**

**INTERVAL 4**

**PERIOD 2**

**OUTAGE 1**

**J.M. FARLEY UNIT 2**

**NUCLEAR PLANT**

**Hwy 95 South**

**COLUMBIA, ALABAMA 36319**

**Southern Nuclear Operating  
Company**

**40 Inverness Center Parkway  
Birmingham, Alabama 35242**

**Volume 1  
Owners Report**

# **INSERVICE INSPECTION REPORT**

**REFUELING 21**

**INTERVAL 4**

**PERIOD 2**

**OUTAGE 1**

**J.M. FARLEY UNIT 2**

**NUCLEAR PLANT**

**Hwy 95 South**

**COLUMBIA, ALABAMA 36319**

**Commercial Service Date: July 30, 1981**

**Southern Nuclear Operating  
Company**

**40 Inverness Center Parkway  
Birmingham, Alabama 35242**

## **FNP 2R21 FINAL REPORT INDEX**

<b><u>SECTION</u></b>	<b><u>TAB</u></b>
<b>VOLUME 1</b>	
• FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTION	<b>A</b>
• BALANCE OF PLANT/REACTOR VESSEL EXAMINATION SUMMARY	<b>B</b>
• EXAMINATION PROGRAM PLAN	<b>C</b>
• SUMMARY OF RECORDED INDICATIONS	<b>D</b>
• FORM NIS-2 OWNER'S REPORTS FOR REPAIRS AND REPLACEMENTS	<b>E</b>
<b>VOLUME 2</b>	
• EXAMINATION RESULTS	<b>F</b>
• INDICATION EVALUATION REPORTS	<b>G</b>
<b>VOLUME 3</b>	
• PERSONNEL CERTIFICATIONS	<b>H</b>
• EXAMINATION PROCEDURES (LISTING)	<b>I</b>
• EQUIPMENT CERTIFICATIONS & CALIBRATION BLOCKS (LISTING)	<b>J</b>
• CALIBRATION BLOCKS (LISTING)	<b>K</b>
<b>VOLUME 4</b>	
• FLOW ACCELERATED CORROSION (FAC) EXAMINATION DATA	<b>L</b>

### **VOLUME 1**

CONTAINS THE INFORMATION TO MEET THE REQUIREMENTS OF ASME CODE 2001 EDITION, 2003 ADDENDA, SECTION XI, SUBSECTION IWA-6240 FOR SUBMITTAL OF A SUMMARY REPORT TO THE NRC FOLLOWING EACH REFUELING OUTAGE.

### **VOLUMES 2 AND 3**

CONTAINS THE SUPPORTING DOCUMENTATION FOR THE EXAMINATIONS PERFORMED (RETAINED ON SITE BY FNP)

### **VOLUME 4**

DOCUMENTATION OF THE FLOW ACCELERATED CORROSION (FAC) INSPECTIONS PERFORMED (RETAINED ON SITE BY FNP)

# **TAB A**

## **FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTION**

**FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS**  
**As required by the Provisions of the ASME Code Rules**

1. Owner Southern Nuclear Operating Company  
40 Inverness Center Parkway  
Birmingham, AL. 35242 (as agent for Alabama Power Co.)  
(Name and Address of Owner)
2. Plant J. M. Farley Nuclear Plant  
Hwy 95 South  
Columbia, AL. 36319  
(Name and Address of Plant)
3. Plant Unit 2
4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 07/30/81
6. National Board Number for Unit see listed N. B. for each component
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering	CE 69105	N/A	21385
Pressurizer	Westinghouse Tampa	1561	N/A	W10793
Steam Gen A	Westinghouse Pensacola	ALAD-40307	N/A	73
Steam Gen B	Westinghouse Pensacola	ALAD-40308	N/A	74
Steam Gen C	Westinghouse Pensacola	ALAD-40309	N/A	75
Class 1 Piping	Daniel Construction	N/A	N/A	N/A
Class 2 Piping	Daniel Construction	N/A	N/A	N/A

8. Examination Dates 05/15/10 to 11/07/11
9. Inspection Period Identification: Second Period 12/01/10 to 11/30/14
10. Inspection Interval Identification: Fourth Interval 12/01/07 to 11/30/17
11. Applicable Edition of Section XI 2001 Addenda 2003
12. Date/Revision of Inspection Plan: 08/31/11; Version 7
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Tabs B and C
14. Abstract of Results of Examinations and Tests. See Tab B
15. Abstract of Corrective Measures. See Tab B

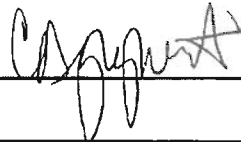
Note: Supplemental sheets in the form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## FORM NIS-1

We 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) corrective measures taken conform to the rules of the ASME Code, Section XI.

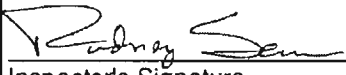
Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

Date 2/9 2012 Signed Southern Nuclear Operating Co. By   
(Owner)

## 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 Georgia and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 02/06/2011 to 02/09/2012, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this Owner's 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 12603 A1N GA690  
Inspector's Signature National Board, State, Province, and Endorsements

Date 02/09 2012

**OWNER'S REPORT  
FOR  
INSERVICE INSPECTION**

**DATE:** 02/09/12

**OWNER NAME AND ADDRESS:** Southern Nuclear Operating Co.  
40 Inverness Parkway  
Birmingham, Alabama 35242  
(as agent for Alabama Power Co.)

**NAME AND ADDRESS OF  
NUCLEAR GENERATING PLANT:** Joseph M. Farley Nuclear Plant  
Highway 95 South  
Columbia, Alabama 36319

**NAME ASSIGNED TO NUCLEAR  
POWER UNIT:** Joseph M. Farley Nuclear Plant  
Unit 2

**OWNER CERTIFICATE OF  
AUTHORIZATION:** N/A

**COMMERCIAL SERVICE DATE:** 07/30/81

**NATIONAL BOARD NUMBER:** See listed NB's for each component

**NAME OF COMPONENTS OR PARTS OF  
COMPONENTS INVOLVED:** Representative samples of the following  
components and systems were examined using  
nondestructive examination techniques.

**CLASS 1**

COMPONENT OR SYSTEM	SYSTEM DESIGNATION	APR SKETCH
Reactor Vessel	B11	1-1100, 1-1200, 1-1300
Pressurizer	B31	1-2100
Steam Generator A	B21	1-3100
Steam Generator B	B21	1-3200-
Steam Generator C	B21	1-3300
Reactor Coolant System	B13	1-4100, 1-4101, 1-4200, 1-4204, 1-4205, 1-4300, 1-4307, 1-4500, 1-4501, 1-4502, 1-4503, 1-4504, 1-5200, 1-5300
Residual Heat Removal	E11	1-4301
Safety Injection System	E11	1-4103, 1-4202, 1-4203, 1-4304
Auxiliary Spray	E21	1-4506
Safety Injection System	E21	1-4104, 1-4112, 1-4201, 1-4303, 1-4308, 1-4309

## CLASS 2

COMPONENT OR SYSTEM	SYSTEM DESIGNATION	APR SKETCH
Centrifugal Charging Pump	E21	2-5120
Containment Spray	E13	2-4512, 2-4515, 2-4517, 2-4701, 2-4708, 2-4709
Feedwater	N21	2-4350
Main Steam System	N11	2-4300, 2-4301
RHR System	E11	2-4501, 2-4506, 2-4507, 2-4509A, 2-4510, 2-4511
Safety Injection	E21	2-4523, 2-4525, 2-4526, 2-4527, 2-4613, 2-4614, 2-4627

HYDROSTATIC TESTING: SEE TAB B

NAME OF AUTHORIZED NUCLEAR INSERVICE INSPECTOR: Rodney Senn

NAME AND MAILING ADDRESS  
OF INSPECTOR'S EMPLOYER:

Hartford Steam Boiler Inspection and  
Insurance Company of Connecticut  
One State Street  
Hartford, CT 06103

ABSTRACT: SEE TAB B

# **TAB B**

## **BALANCE OF PLANT / REACTOR VESSLE EXAMINATION SUMMARY**

# **J. M. FARLEY NUCLEAR PLANT UNIT NO 2 INTERVAL 4 PERIOD 2 OUTAGE 1 BALANCE OF PLANT EXAMINATION SUMMARY**

## **INTRODUCTION**

The ASME Boiler and Pressure Vessel Code, Section XI, 2001 Edition (Code), 2003 Addenda, is the applicable code for conducting inservice inspection activities during the fourth ten-year inspection interval at Farley Unit 2. Examinations and tests required by the Code are scheduled in accordance with "Inspection Program B" as defined in Code paragraphs IWB-2412 and IWC-2412. This "Owner's Report for Inservice Inspection" is for those second inspection period examinations and tests which were performed between May 17, 2010 (date of last examination performed during the twentieth maintenance/refueling outage, 2R20 / 4-1-1) and November 7, 2011 (date of last examination performed during the twenty-first maintenance/refueling outage, 2R21 / 4-2-1). Farley received approval for FNP-ISI-ALT-01 to start the fourth ISI interval on December 1, 2007.

The examinations were performed in accordance with the approved Outage Plan. The primary areas of examination included Pressurizer and Steam Generator dissimilar metal welds and various Class 1 and Class 2 piping welds and supports. The tables documenting the Class 1 and 2 vessel and piping examinations as well as component supports examined are under Tab C of this report.

Farley Nuclear Plant has implemented ASME Section XI, Appendix VIII, "Performance Demonstration for Ultrasonic Examination Systems," as required by 10CFR 50.55a, amended by the *Federal Register* Notices 64 FR 51370 dated September 22, 1999, as later modified by 69 FR58804, dated October 1, 2004. The 2004 Rule incorporated the 2001 Edition with NRC caveats. Farley has, except where requests for relief, technical alternatives or exemptions have been approved, complied with the requirements for expedited implementation of the applicable Appendix VIII supplements using the EPRI Performance Demonstration Initiative (PDI).

In addition to the summary of inservice inspection activities, this report addresses Code-applicable repairs and replacements documented at FNP-2 since 2R20 through the end of 2R21. Class 1 and Class 2 Owner's Reports for Repairs or Replacements (Form NIS-2) are provided herein.

It should be noted that an arrangement with an Authorized Inspection Agency was provided for those examinations and tests required by the Code. ASME Section XI examinations and tests are itemized in the applicable sections by reference to Examination Category. Examinations which do not meet the Code-required coverage either reference request(s) for relief or indicate that additional relief is required.

This report does include a summary of the steam generator tube inspections however this summary is not a substitution for the steam generator report which is required per FNP Technical Specification 5.6.10. The Steam Generator Tube Inspection Report is provided in a separate report one hundred eighty (180) days after the initial entry into MODE 4 following completion of an inspection performed in accordance with Technical Specification 5.5.9.

## **RESULTS**

Certain examinations resulted in recordable indication areas being noted on the basis of procedure recording criteria, which generally are more conservative than specified in the ASME Section XI Acceptance Standards. Indications were evaluated and dispositioned by Indication Evaluation Reports (IER's). A listing of IER's is attached and the data sheets are available at FNP for review. The results are summarized below.

## **SUMMARY OF INDICATIONS**

### **CLASS 1**

#### **(A) VOLUMETRIC EXAMINATIONS**

- There were no reportable Class 1 Volumetric indications.
- Four (4) class 1 welds had limited volumetric coverage during UT examinations because of physical limitations due to the geometric configuration of the welded areas. More than ninety percent (90%) of the required volume must be examined as addressed in ASME Section XI Code Case N-460 for adequate ASME Section XI Code-required examination coverage to be attained. As noted herein, the subject code case has been approved by the NRC for use as documented in NRC Regulatory Guide 1.147. It is impractical to achieve the ASME Section XI Code-required coverage due to the geometric configuration of the welded areas. These limited examinations will be submitted to the NRC through the relief request process as allowed by 10 CFR 50.55a.

#### **(B) SURFACE EXAMINATIONS**

- There were no reportable Class 1 Surface indications.
- One (1) Class 1 weld had limited surface examination coverage during MT examination because of physical limitation due to the geometric configuration of the weld area. More than ninety percent (90%) of the required volume must be examined as addressed in ASME Section XI Code Case N-460 for adequate ASME Section XI Code-required examination coverage to be attained. As noted herein, the subject code case has been approved by the NRC for use as documented in NRC Regulatory Guide 1.147. It is impractical to achieve the ASME Section XI Code-required coverage due to the geometric configuration of the welded areas. These limited examinations will be submitted to the NRC through the relief request process as allowed by 10 CFR 50.55a.

#### **(C) VISUAL EXAMINATIONS**

- There were five (5) bolted connections from the Class 1 pressure tests with various degrees of boron accumulation. In each case the boron was removed and either an evaluation or a re-examination found each one acceptable.
- One (1) Class 1 support had limited surface coverage during VT-3 examinations because of physical limitation due to the geometric configuration of the weld area. More than ninety percent (90%) of the required volume must be examined as addressed in ASME Section XI Code Case N-460 for adequate ASME Section XI Code-required examination coverage to be attained. As noted herein, the subject code case has been approved by the NRC for use as documented in NRC Regulatory Guide 1.147. It is impractical to achieve the ASME Section XI Code-required coverage due to the geometric configuration of the welded areas. These limited examinations will be submitted to the NRC through the relief request process as allowed by 10 CFR 50.55a.

### **CLASS 2**

#### **(A) VOLUMETRIC EXAMINATIONS**

- There were no reportable Class 2 Volumetric indications.

**(B) SURFACE EXAMINATIONS**

- There were no reportable Class 2 Surface indications.

**(C) VISUAL EXAMINATIONS**

- There were no reportable Class 2 Visual indications.

## ADDITIONAL EXAMINATIONS

The following is a summary of additional examinations which were performed during this outage in accordance with the 2001 Edition, 2003 Addenda of ASME Section XI:

- **Class 1 System Leakage Testing**

In accordance with IWB-5210(a), a system leakage test of the Class 1 Reactor Coolant System Pressure Boundary was performed prior to startup following the 21<sup>st</sup> refueling outage. In addition, to meet the requirements of IWB-5222(b), the boundary of this system leakage test was extended to include all Class 1 pressure retaining components. This testing was completed on 11/07/2011. There were twenty-seven (27) recorded indication of leakage. In each case, the boron was removed and necessary corrective actions were taken. The results of this testing is documented in FNP-2-STP-156.3.

To meet the requirements of IWA-5242(a), insulation was removed from all insulated Class 1 pressure retaining bolted connections for VT-2 visual examination after the system was depressurized. There was a total of total of five (5) pressure retaining bolted connections which had some degree of boron accumulation. In each case, the boron was removed and any necessary correction actions were taken. The results of this testing is also documented in FNP-2-STP-156.3.

- **Class 2 System Leakage Testing**

In accordance with IWC-5210(a), system leakage testing was performed during the 21<sup>st</sup> refueling outage on portions of the following systems: Residual Heat Removal, Chemical and Volume Control, Safety Injection, Main Steam, Main Feedwater, Auxiliary Feedwater, and Containment Spray. There were eighteen (18) recorded indication associated with these tests. In each case, necessary corrective action was performed. The results of this testing is documented in FNP-2-STP-156.2.

- **IWE/IWL Examinations**

A portion of the Containment moisture barrier was replaced during the 21<sup>st</sup> refueling outage based on age related degradation described in IWE-3510.4. While the moisture barrier was removed, a visual examination was performed on the normally inaccessible portions of the containment liner plate and no indication of degradation was noted. This inspection is documented in work order 2053128401.

## STATUS OF EXAMINATIONS REQUIRED FOR CURRENT INTERVAL

This 2R21 Outage was the 1<sup>st</sup> Outage, 2<sup>nd</sup> Period of the 4<sup>th</sup> Interval. The results from this outage, combined with the "scheduled" examinations from the next two refueling outages (2R22, Spring 2013 and 2R23, Fall 2014) will represent 100% of the total Class 1 and 2 scope for the current period and interval. Farley Unit 2 is within ASME Code compliance, pending NRC approval of the volumetric and/or surface examination limitations. Requests for relief will be submitted within the required time frame specified by 10 CFR 50.55a. See Table 1 for completion percentages.

- **Applicable Code Cases**

The applicable Code Cases for the 2R21 Outage included:

N-460	N-663	N-696	N-729-1
N-648-1	N-695	N-722	N-700



## **FARLEY 2R21 STEAM GENERATOR TUBE INSPECTION REPORT**

### **Steam Generator Tube Inspections**

The inspection program, as required by the EPRI PWR SG Examination Guidelines, revision 7, addressed the potential degradation mechanisms for Farley 2. The defined scope implemented during 2R21 included the following:

- 50% Bobbin full length examination of tubes in all SGs not inspected at 2R18, except for Rows 1 and 2 which were inspected from tube end to the top TSP from both the HL and CL.
- 50% +Point examination of Row 1 and Row 2 U-bends in all SGs not inspected at 2R18. The tubes in this sample population were tubes that are also tested as part of the bobbin program.
- 20% +Point examination at the HL TTS from TSH +/-3 inches in all SGs. This sample population was taken from tubes tested as part of the bobbin program that were not +Point inspected at the HL TTS during 2R15 and 2R18.
- 100% +Point examination of all dents and dings  $\geq 2$  volts in all SGs. All additional dents and dings  $\geq 2$  volts identified by the bobbin program were also examined.
- 100% Bobbin examination of Row 1 and 2 CL straight length of all tubes not inspected full length during 2R18 in all SGs.
- +Point tests of Special Interest tube locations in both the HL and CL of possible flaw (I-code) locations from the bobbin program to characterize underlying conditions.

The Farley 2R21 SG inspection plan met or exceeded the requirements of the EPRI guidelines. This SG primary side inspection plan is aligned with the SNC SG program strategic plan, NMP-ES-004-GL01.

There was no NDE inspection scope expansions required during Farley 2R21.

There were no tubes plugged during the Farley 2R21 outage SG inspections.

<b>Table 1</b> <b>Farley Unit 2</b> <b>2R21 Outage</b> <b>Completion Percentages</b>							
Cat.	Item No.	Code Case / ALT	Population	Percent of Population Required To Be Examined	Total Exams Required During 4 <sup>th</sup> Interval	2R21	
						No. of Exams Completed	% of Total Exams Completed
B-A	B1.11	ALT-09	3	0%	0	0	0%
B-A	B1.12	ALT-09	4	0%	0	0	0%
B-A	B1.21	ALT-09	1	0%	0	0	0%
B-A	B1.30	ALT-09	1	0%	0	0	0%
Total:			9		0	0	0%
B-B	B2.11		2	100%	2	1	50%
B-B	B2.12		2	100%	2	1	50%
B-B	B2.40		3	33.33%	1	0	0%
Total:			7		5	2	40%
B-D	B3.100	N-648-1	6	100%	6	6	100%
B-D	B3.110		6	100%	6	2	34%
B-D	B3.120		6	100%	6	2	34%
B-D	B3.140		6	100%	6	2	34%
B-D	B3.90	ALT-09	6	0%	0	0	0%
Total:			30		24	12	50%
B-F	B5.10	N-663	6	100%	6	6	100%
B-F	B5.40		0	0%	0	0	0%
B-F	B5.70	N-663	6	100%	6	2	34%
Total:			17		12	8	67%
B-G-1	B6.10		1	100%	1	1	100%
B-G-1	B6.180		3	33.33%	1	1	100%
B-G-1	B6.190		3	0%	0	0	0%
B-G-1	B6.20		1	100%	1	1	100%
B-G-1	B6.40		1	100%	1	1	100%
B-G-1	B6.50		1	100%	1	1	100%
Total:			10		5	5	100%

<b>Table 1</b> <b>Farley Unit 2</b> <b>2R21 Outage</b> <b>Completion Percentages</b>							
Cat.	Item No.	Code Case / ALT	Population	Percent of Population Required To Be Examined	Total Exams Required During 4 <sup>th</sup> Interval	2R21	
						No. of Exams Completed	% of Total Exams Completed
B-G-2	B7.20		1	0%	0	0	0%
B-G-2	B7.30		6	0%	0	0	0%
B-G-2	B7.50		6	100%	6	0	100%
B-G-2	B7.60		3	0%	0	2	0%
B-G-2	B7.70		24	0%	0	0	0%
Total:			40		6	2	34%
B-J	B9.11	N-663	380	25%	95	38	40%
B-J	B9.21		56	25%	14	0	0%
B-J	B9.31		15	25%	4	0	0%
B-J	B9.32		19	25%	5	0	0%
B-J	B9.40		216	25%	54	0	0%
Total:			686		172	38	22%
B-K	B10.10		1	100%	1	1	100%
B-K	B10.10(R)	N-700	3	33.33%	1	1	100%
B-K	B10.20		12	12%	2	1	50%
Total:			16		4	3	75%
B-L-2	B12.20		3	0%	0	0	0%
Total:			3		0	0	0%
B-M-2	B12.50(1)		4	0%	0	0	0%
B-M-2	B12.50(2)		6	0%	0	0	0%
B-M-2	B12.50(3)		5	0%	0	0	0%
B-M-2	B12.50(4)		3	0%	0	0	0%
B-M-2	B12.50(5)		6	0%	0	0	0%
Total:			24		0	0	0%

<b>Table 1</b> <b>Farley Unit 2</b> <b>2R21 Outage</b> <b>Completion Percentages</b>							
Cat.	Item No.	Code Case / ALT	Population	Percent of Population Required To Be Examined	Total Exams Required During 4 <sup>th</sup> Interval	2R21	
						No. of Exams Completed	% of Total Exams Completed
B-N-1	B13.10		1	100%	1	1	100%
Total:			1		1	1	100%
B-N-2	B13.60		4	100%	4	4	100%
Total:			4		4	4	100%
B-N-3	B13.70		1	100%	1	1	100%
Total:			1		1	1	100%
B-O	B14.10(2)		38	13.15%	5	5	100%
Total:			38		5	5	100%
C-A	C1.20		3	33.33%	1	1	100%
C-A	C1.30		3	33.33%	1	0	0%
Total:			6		2	1	50%
C-B	C2.21		3	33.33%	1	1	100%
C-B	C2.22		3	33.33%	1	1	100%
Total:			6		2	2	100%
C-C	C3.10		6	16.666%	1	1	100%
C-C	C3.20		137	10.1%	14	9	64%
C-C	C3.30		23	10%	3	1	33%
Total:			166		18	11	61%
C-F-1	C5.11	N-663	865	7.5%	65	19	30%
C-F-1	C5.21		367	7.5%	28	0	0%
C-F-1	C5.30		196	7.5%	15	0	0%
C-F-1	C5.41		20	7.5%	2	0	0%
Total:			1448		110	19	18%

**Table 1  
Farley Unit 2  
2R21 Outage  
Completion Percentages**

Cat.	Item No.	Code Case / ALT	Population	Percent of Population Required To Be Examined	Total Exams Required During 4 <sup>th</sup> Interval	2R21	
						No. of Exams Completed	% of Total Exams Completed
C-F-2	C5.51	N-663	203	12%	25	10	40%
C-F-2	C5.60		12	7.5%	1	0	0%
C-F-2	C5.81		24	7.5%	2	0	0%
Total:			239		28	10	36%
D-A	D1.10		9	44.444%	4	2	50%
D-A	D1.20		185	10.8%	20	16	80%
Total:			194		24	18	75%
F-A	F1.10B(2)		55	25%	14	8	58%
F-A	F1.10C(2)		25	25%	7	5	72%
F-A	F1.10D(2)		62	25%	16	12	75%
F-A	F1.10E(2)		23	25%	6	4	67%
F-A	F1.10F(2)		1	25%	1	0	0%
F-A	F1.10I(2)		3	25%	1	1	100%
F-A	F1.10S(2)		47	25%	12	5	42%
F-A	F1.20A(2)		49	15%	8	4	50%
F-A	F1.20B(2)		105	15%	16	8	50%
F-A	F1.20C(2)		19	15%	3	2	67%
F-A	F1.20D(2)		171	15%	26	15	67%
F-A	F1.20E(2)		69	15%	11	8	73%
F-A	F1.20F(2)		15	15%	3	1	34%
F-A	F1.20G(2)		8	15%	2	1	50%
F-A	F1.20J(2)		8	15%	2	1	50%
F-A	F1.20S(2)		27	15%	5	2	40%
F-A	F1.30A(2)		59	10%	6	5	84%
F-A	F1.30B(2)		121	10%	13	7	54%
F-A	F1.30C(2)		8	10%	1	1	100%
F-A	F1.30D(2)		337	10%	34	24	71%
F-A	F1.30E(2)		133	10%	14	7	50%

<b>Table 1</b> <b>Farley Unit 2</b> <b>2R21 Outage</b> <b>Completion Percentages</b>							
<b>Cat.</b>	<b>Item No.</b>	<b>Code Case / ALT</b>	<b>Population</b>	<b>Percent of Population Required To Be Examined</b>	<b>Total Exams Required During 4<sup>th</sup> Interval</b>	<b>2R21</b>	
						<b>No. of Exams Completed</b>	<b>% of Total Exams Completed</b>
F-A	F1.30F(2)		62	10%	7	7	100%
F-A	F1.30H(2)		13	10%	2	0	0%
F-A	F1.30S(2)		18	15%	3	1	33%
F-A	F1.40(2)		90	50%	45	26	58%
Total:			1528		258	154	60%

# **TAB C**

## **EXAMINATION PROGRAM PLAN**

**Farley Unit 2  
Class 1 Components**

ASME Section XI	Examination/Area	Examination Procedure(s)	Cal Block(s)	Exam/Cal Sheet No(s).	Results	Remarks
B-K B10.10(R)	<b>APR1-1300-CS-1R</b> INTEGRAL ATTACHMENT AT 60°	NMP-ES-024-401	NA	S11F2M001	NRI	75% Code coverage. Relief request required.
B-G-2 B7.30	<b>APR1-3300-N01 thru N32</b> STEAM GEN. NUTS (1 thru 32)	NMP-ES-024-201	NA	S11F2V082	Sat	Examined nuts and associated washers
B-G-2 B7.30	<b>APR1-3300-S01 thru S32</b> STEAM GEN. STUDS (1 thru 32)	NMP-ES-024-201	NA	S11F2V083	Sat	Examined nuts and associated washers
N-722 B15.90	<b>APR1-4100-1DM-BMV</b> RPV HOT LEG SAFE END BMV	NMP-ES-024-202	NA	S11F2V095	Accept	NA
B-G-2 B7.70	<b>APR1-4103-QV021C(B)</b> VALVE BOLTING	NMP-ES-024-201	NA	S11F2V079	Sat	NA
B-J B9.21	<b>APR1-4106-8</b> VALVE TO PIPE	NMP-ES-024-501	ALA-67	S11F2U009	NRI	49.4% Code coverage. Relief request required. Examined per MRP.
B-J B9.21	<b>APR1-4106-9</b> PIPE TO ELBOW	NMP-ES-024-501	ALA-67	S11F2U010	NRI	Examined per MRP.
B-J B9.21	<b>APR1-4106-10</b> ELBOW TO PIPE	NMP-ES-024-501	ALA-67	S11F2U011	NRI	Examined per MRP.
B-J B9.21	<b>APR1-4106-11</b> PIPE TO BRANCH CONNECTION	NMP-ES-024-501	ALA-67	S11F2U017	NRI	0% coverage - base metal scan only. Examined per MRP.
N-722 B15.90	<b>APR1-4200-1DM-BMV</b> RPV HOT LEG SAFE END BMV	NMP-ES-024-202	NA	S11F2V096	Accept	NA
B-G-2 B7.70	<b>APR1-4202-QV021B(B)</b> VALVE BOLTING	NMP-ES-024-201	NA	S11F2V080	Sat	NA
B-J B9.11	<b>APR1-4205-43</b> PIPE TO ELBOW	NMP-ES-024-501	ALA-7	S11F2U012	NRI	NA
B-J B9.11	<b>APR1-4205-44</b> ELBOW TO ELBOW	NMP-ES-024-501	ALA-7	S11F2U013	NRI	NA
B-J B9.11	<b>APR1-4205-45</b> ELBOW TO ELBOW	NMP-ES-024-501	ALA-7	S11F2U014	NRI	NA
N-722 B15.90	<b>APR1-4300-1DM-BMV</b> RPV HOT LEG SAFE END BMV	NMP-ES-024-202	NA	S11F2V097	Accept	NA
B-G-2 B7.70	<b>APR1-4303-QV021A(B)</b> VALVE BOLTING	NMP-ES-024-201	NA	S11F2V081	Sat	NA
B-J B9.11	<b>APR1-4304-17</b> ELBOW TO PIPE	NMP-ES-024-501	APR-1	S11F2U001	NRI	NA



**Farley Unit 2  
Class 1 Components**

<b>ASME Section XI</b>	<b>Examination/Area</b>	<b>Examination Procedure(s)</b>	<b>Cal Block(s)</b>	<b>Exam/Cal Sheet No(s).</b>	<b>Results</b>	<b>Remarks</b>
B-J B9.11	<b>APR1-4304-18</b> PIPE TO VALVE	NMP-ES-024-501	APR-1, ALA-67	S11F2U002	NRI	50% Code coverage. Relief request required.
B-J B9.11	<b>APR1-4304-19</b> VALVE TO PIPE	NMP-ES-024-501	APR-1, ALA-67	S11F2U003	NRI	50% Code coverage. Relief request required.
B-J B9.11	<b>APR1-4304-20</b> PIPE TO ELBOW	NMP-ES-024-501	APR-1, ALA-67	S11F2U004	NRI	91.6% coverage. Examined per MRP.
B-J B9.11	<b>APR1-4304-21</b> ELBOW TO PIPE	NMP-ES-024-501	APR-1	S11F2U005	NRI	Examined per MRP.
B-J B9.11	<b>APR1-4305-3</b> VALVE TO PIPE	NMP-ES-024-501	APR-1, ALA-67	S11F2U006	NRI	50% Code coverage. Relief request required.
B-J B9.11	<b>APR1-4305-4</b> PIPE TO ELBOW	NMP-ES-024-501	APR-1	S11F2U007	NRI	Examined per MRP.
B-J B9.11	<b>APR1-4305-5</b> ELBOW TO PIPE	NMP-ES-024-501	APR-1	S11F2U008	NRI	Examined per MRP.
B-G-2 B7.70	<b>APR1-4501-QV031A(B)</b> VALVE BOLTING	NMP-ES-024-201	NA	S11F2V090	Sat	NA
B-J B9.40	<b>APR1-4506-11</b> VALVE TO PIPE	NMP-ES-024-501	ALA-67	S11F2U015	NRI	Examined base material between socket weld per Site Engineering request.
B-J B9.40	<b>APR1-4506-12</b> PIPE TO ELBOW	NMP-ES-024-201	ALA-67	S11F2V016	Sat	Examined base material between socket weld per Site Engineering request.

**Farley Unit 2**  
**Class 2 Components**

ASME Section XI	Examination/Area	Examination Procedure(s)	Cal Block(s)	Exam/Cal Sheet No(s).	Results	Remarks
C-C C3.20	<b>APR2-4529-CVCS-2A17 (WS)</b> WELDED ATTACHMENT	NMP-ES-024-301	NA	S11F2P004	NRI	NA
C-C C3.20	<b>APR2-4603-SI-2A10 (WS)</b> WELDED ATTACHMENT	NMP-ES-024-301	NA	S11F2P003	NRI	NA
C-C C3.20	<b>APR2-4610-2SI-R46 (WS)</b> WELDED ATTACHMENT	NMP-ES-024-301	NA	S11F2P005	NRI	NA
C-C C3.20	<b>APR2-4701-CS-2A8 (WS)</b> WELDED ATTACHMENT	NMP-ES-024-301	NA	S11F2P001	NRI	NA
C-C C3.30	<b>APR2-5100-CS-1R (W1)</b> WELDED ATTACHMENT	NMP-ES-024-301	NA	S11F2P002	NRI	NA

Farley Unit 2 Supports						
ASME Section XI	Examination/Area	Examination Procedure(s)	Cal Block(s)	Exam/Cal Sheet No(s).	Results	Remarks
F-A F1.40(2)	<b>APR1-1100-CS-1</b> RPV SUPPORT	NMP-ES-024-203	NA	S11F2V091	Sat	75% Code coverage. Relief request required.
F-A F1.40(2)	<b>APR1-1100-CS-2</b> RPV SUPPORT	NMP-ES-024-203	NA	S11F2V092	Sat	NA
F-A F1.10D(2)	<b>APR1-4101-2RH-R98</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V072	Sat	NA
F-A F1.10E(2)	<b>APR1-4102-2SI-R189</b> SWAY STRUT	NMP-ES-024-203	NA	S11F2V045	Sat	NA
F-A F1.10B(2)	<b>APR1-4102-2SI-R190</b> ONE DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V046	Sat	NA
F-A F1.10C(2)	<b>APR1-4102-2SI-R357</b> SPRING CAN	NMP-ES-024-203	NA	S11F2V047	Sat	NA
F-A F1.10D(2)	<b>APR1-4103-2SI-R83</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V044	Sat	NA
F-A F1.10E(2)	<b>APR1-4103-2SI-R85</b> SWAY STRUT	NMP-ES-024-203	NA	S11F2V043	Sat	NA
F-A F1.10D(2)	<b>APR1-4104-2SI-R117</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V048	Sat	NA
F-A F1.10B(2)	<b>APR1-4104-2SI-R134</b> ONE DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V049	Sat	NA
F-A F1.10E(2)	<b>APR1-4104-2SI-R94</b> SWAY STRUT	NMP-ES-024-203	NA	S11F2V058	Sat	NA
F-A F1.10B(2)	<b>APR1-4105-2RC-R14</b> ONE DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V071	Sat	NA
F-A F1.10C(2)	<b>APR1-4106-2CVC-R772</b> SPRING CAN	NMP-ES-024-203	NA	S11F2V060	Sat	NA
F-A F1.10C(2)	<b>APR1-4108-2CVC-R779</b> SPRING CAN	NMP-ES-024-203	NA	S11F2V040	Unsat	IER-002 – Acceptable as is per Engineering evaluation.
F-A F1.10D(2)	<b>APR1-4112-SS-12381</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V059	Sat	NA
F-A F1.10C(2)	<b>APR1-4503-2RC-R145</b> SPRING CAN (2) W/ATT	NMP-ES-024-203	NA	S11F2V055	Sat	NA

Farley Unit 2 Supports						
ASME Section XI	Examination/Area	Examination Procedure(s)	Cal Block(s)	Exam/Cal Sheet No(s).	Results	Remarks
F-A F1.40(2)	<b>APR1-5100-CS-1</b> REACTOR COOLANT PUMP 2A Q2B41P001A	NMP-ES-024-203	NA	S11F2V074	Sat	NA
F-A F1.40(2)	<b>APR1-5100-CS-2</b> REACTOR COOLANT PUMP 2A Q2B41P001A	NMP-ES-024-203	NA	S11F2V075	Sat	NA
F-A F1.40(2)	<b>APR1-5100-CS-3</b> REACTOR COOLANT PUMP 2A Q2B41P001A	NMP-ES-024-203	NA	S11F2V076	Sat	NA
F-A F1.20C(2)	<b>APR2-4100-2MS-R613</b> SPING CAN W/ATT	NMP-ES-024-203	NA	S11F2V053	Sat	NA
F-A F1.20E(2)	<b>APR2-4101-2MS-BR3</b> SWAY STRUT	NMP-ES-024-203	NA	S11F2V032 S11F2U093	Unsat Sat	IER-001 – repaired per WO 340260.
F-A F1.20D(2)	<b>APR2-4101-2MS-R511</b> TWO DIRECTIONAL RESTRAINT W/STANC(3)	NMP-ES-024-203	NA	S11F2V036	Sat	NA
F-A F1.20E(2)	<b>APR2-4150-2FW-R5</b> SWAY STRUT	NMP-ES-024-203	NA	S11F2V068	Unsat	Acceptable per Engineering evaluation.
F-A F1.20D(2)	<b>APR2-4150-2FW-R6</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V054	Sat	NA
F-A F1.20E(2)	<b>APR2-4150-2FW-R9</b> SWAY STRUT	NMP-ES-024-203	NA	S11F2V073	Sat	NA
F-A F1.20E(2)	<b>APR2-4501-2RHR-R121</b> SWAY STRUT	NMP-ES-024-203	NA	S11F2V001	Sat	NA
F-A F1.20A(2)	<b>APR2-4504-RHR-2A2</b> ANCHOR W/ATT	NMP-ES-024-203	NA	S11F2V078	Sat	NA
F-A F1.20B(2)	<b>APR2-4505-2SI-R102</b> ONE DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V077	Sat	NA
F-A F1.20C(2)	<b>APR2-4506A-2SI-R995</b> SPING CAN (2)	NMP-ES-024-203	NA	S11F2V061	Unsat	IER-005 – acceptable per Engineering evaluation.
F-A F1.20D(2)	<b>APR2-4510A-2SI-R111</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V062	Sat	NA
F-A F1.20D(2)	<b>APR2-4534-SS-10689</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V002	Sat	NA
F-A F1.20E(2)	<b>APR2-4602-2SI-R39</b> SWAY STRUT	NMP-ES-024-203	NA	S11F2V028	Sat	NA
F-A F1.20A(2)	<b>APR2-4603-SI-2A10</b> ANCHOR W/ATT	NMP-ES-024-203	NA	S11F2V015	Sat	NA

Farley Unit 2 Supports						
ASME Section XI	Examination/Area	Examination Procedure(s)	Cal Block(s)	Exam/Cal Sheet No(s).	Results	Remarks
F-A F1.20D(2)	<b>APR2-4608-2SI-R26</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V003	Sat	NA
F-A F1.20D(2)	<b>APR2-4612-SS-12294</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V050	Sat	NA
F-A F1.20D(2)	<b>APR2-4614-SS-12400</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V038	Sat	NA
F-A F1.20D(2)	<b>APR2-4614-SS-12403</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V039	Sat	NA
F-A F1.20E(2)	<b>APR2-4616-2SI-R7</b> SWAY STRUT	NMP-ES-024-203	NA	S11F2V004	Sat	NA
F-A F1.20A(2)	<b>APR2-4621-SS-12460</b> ANCHOR W/ATT	NMP-ES-024-203	NA	S11F2V037	Sat	NA
F-A F1.20D(2)	<b>APR2-4700-2CS-R306</b> TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V005	Sat	NA
F-A F1.20E(2)	<b>APR2-4705-2CS-R317</b> SWAY STRUT	NMP-ES-024-203	NA	S11F2V006	Sat	NA
F-A F1.40(2)	<b>APR2-5130-CS-1</b> RHR PUMP (A) Q2E11P001A-A	NMP-ES-024-203	NA	S11F2V065	Sat	NA
F-A F1.40(2)	<b>APR2-5130-CS-2</b> RHR PUMP (A) Q2E11P001A-A	NMP-ES-024-203	NA	S11F2V066	Sat	NA
F-A F1.40(2)	<b>APR2-5130-CS-3</b> RHR PUMP (A) Q2E11P001A-A	NMP-ES-024-203	NA	S11F2V067	Sat	NA

**TAB D**

**SUMMARY OF  
RECORDED  
INDICATIONS**

**APR**  
**SUMMARY OF RECORDED INDICATIONS**  
**2011 UNIT 2RF21**

SKETCH	ID	ITEM DESCRIPTION	INDICATION DESCRIPTION	ACCEPTED PER		MONITOR	IER NUMBER
				EVALUATION	REPAIR/REPL		
APR2-4101	2MS-BR3	Strut	Loose lock nut, paddle cannot be rotated by hand	-	X	-	001
APR1-4108	2CVC-R779	Spring Can	Misaligned causing rod to bind and not allow movement.	X	-	-	002
D515077	EG2-077-2SW-R22	Pipe support	Corrosion noted on base material	X	-	-	003
RPV Sump	Cavity Liner	RPV Sump and Floor SNC86643	Spalling, minor cracking and surface staining.	X	-	-	004
APR2-4506A	2SI-R995	Spring Can	Missing load scale plate	-	X	-	005
---	---	Bolted Connections	Class 1 Leakage Test Indications		X		Class 1 161.1

# **TAB E**

## **FORM NIS-2 OWNER'S REPORTS FOR REPAIRS AND REPLACEMENTS**



## OWNER'S REPORTS FOR REPAIRS OR REPLACEMENTS (FORM NIS-2)

The following Owner's Reports for Repairs or Replacements (Form NIS-2) are provided for work activities documented at FNP-2 since the last maintenance/refueling outage (2R20) through the completion of the twenty-first maintenance/refueling outage (2R21). Reports are identified by their respective job number which is denoted on each of the NIS-2 reports. The originals of the NIS-2 reports are filed with their respective packages at the plant site. Only those NIS-2 reports applicable to FNP-2 are included in this report document. Any attachments, e.g., code data reports, etc., referenced in the NIS-2 reports will be made available for review upon request at the plant site.

The NIS-2s for the following job number packages are included herein:

2051571453	SNC72520	SNC82697	SNC82715
SNC75200	SNC82699	SNC82716	SNC82728
2103425801	SNC75201	SNC82700	SNC82717
SNC75202	SNC82701	SNC82730	SNC82724
2110160501	SNC82702	SNC82721	SNC83744
SNC82703	SNC82723	SNC82732	SNC335890
SNC316233	SNC82685	SNC82704	SNC344131
SNC82705	SNC82726	2071439901	
SNC324095	SNC82687	SNC82706	
SNC327764	SNC82688	SNC82707	
SNC328557	SNC82689	SNC82708	
SNC328560	SNC82690	SNC82709	
SNC328562	SNC82691	SNC82711	
SNC79337	SNC82693	SNC82712	
SNC82694	SNC82713	SNC82736	
SNC82695	SNC82714	SNC75876	
2102553201	SNC74654	SNC82735	
2102520401	2091330001	SNC79194	

SHARED

## APPENDIX C

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY  
As Required By The Provisions Of The ASME Code Section XI

1. Owner Southern Nuclear Operating Company Date September 07., 2011  
 Name  
 40 Inverness Center Parkway  
 Birmingham, Alabama 35242  
 (An agent for Alabama Power Company)  
 Address  
 2. Plant Farley Nuclear Plant Sheet 1 of 2  
 Name  
 Highway 95 South  
 Columbia, Alabama 36319  
 Address  
 Unit TWO  
 P16 - WO# SNC328557  
 Repair/Replacement Organization P.O. No., Job No., etc.  
 3. Work Performed by Southern Nuclear Operating Company / ES - Modifications Type Code Symbol  
 Name Stamp N/A  
 Authorization No. N/A  
 Expiration Date N/A  
Farley Nuclear Plant  
 Address  
 4. Identification of System P16 - Service Water CLASS 3 Rev 2/8/12  
 5. (a) Applicable Construction Code                      Edition,                      Addenda,                      Code Case  
 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 / 2003 Rev 2/8/12  
 (c) Applicable Section XI Code Case(s) N/A

## 6. Identification Of Components : 3 INCH DRAIN VALVE Q2P16V0368A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
PIPET	WFI NUCLEAR PRODUCTS	HT# 5094ANR1	N/A	PO# SNA10019087	2008	INSTALLED	NO
3 INCH BALL VALVE	BNL INDUSTRIES INC.	A110508-1-7	N/A	Q2P16V0368A PO# QP110393	2011	INSTALLED	YES

7. Description of Work PERFORMED 3 INCH HOT TAP FOR HIGH CAPACITY DRAINING S.W. HEADER IN 30"-HBC-211 UNIT 2 VALVE BOX 2VB-2 "A" TRAIN PER MDC SNC87221 AND WO# SNC328557.

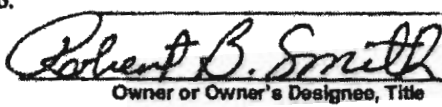
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure 125 psi Test Temp. 85 °F


SHARED

## APPENDIX C

## FORM NIS-2 (Back)

9. Remarks Install 3 inch High Capacity Drain to S.W. 30'-HBC-211 inside Unit 2 Valve Box 2VB-2 on "A" Train per  
Applicable Manufacturer's Data Reports to be attached  
MDC SNC87221 and WO# SNC328557.
- See PO# SNA10019087 for 3 inch pipet. See PO# QP110393 for 3 inch ball valve.
- See WO# SNC318135 for fabrication of 3 inch drain valve assembly.

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this _____ conforms to the rules of the ASME Code, Section XI.			
Type Code Symbol	N/A		
Stamp			
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed	 Owner or Owner's Designee, Title		
	Site Design Manager	Date	11/28/11

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 <u>GEORGIA</u> and employed by <u>HSB CT</u> of <u>BARTFORD</u>			
<u>CT</u> have inspected the components described in this Owner's Report during the period <u>9/22/11</u> to <u>11/28/11</u> and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.			
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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		Commission # <u>12564 GA-827 A1N</u> National Board, State, Province and Endorsements	
Date <u>11/28/11</u>			

## APPENDIX C

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner Southern Nuclear Operating Company Date September 07, 2011  
 Name  
40 Inverness Center Parkway  
Birmingham, Alabama 35242  
(An agent for Alabama Power Company)  
 Address  
 2. Plant Farley Nuclear Plant Unit TWO  
 Name  
Highway 95 South  
Columbia, Alabama 36319  
 Address  
 3. Work Performed by Southern Nuclear Operating Company / ES - Modifications Type Code Symbol  
 Name Stamp N/A  
 Authorization  
 No. N/A  
 Expiration  
 Date N/A  
Farley Nuclear Plant  
 Address  
 4. Identification of System P16 - Service Water CLASS 3 per 2/8/12  
 5. (a) Applicable Construction Code            Edition,            Addenda,            Code Case  
 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 / 2003 per 2/8/12  
 (c) Applicable Section XI Code Case(s) N/A

## 6. Identification Of Components : 3 INCH DRAIN VALVE Q2P16V0367B

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
PIPET	WFI NUCLEAR PRODUCTS	HEAT NUMBER 5084ANR1	N/A	PO# SNA10019087	2009	INSTALLED	NO
3 INCH BALL VALVE	BNL INDUSTRIES INC.	SERIAL NUMBER A110509-1-6	N/A	Q2P16V0367B PO# QP110393	2011	*INSTALLED	YES
3 INCH BALL VALVE	BNL INDUSTRIES INC.	SERIAL NUMBER A110509-1-9	N/A	Q2P16V0367B PO# QP110393	2011	*INSTALLED	YES

7. Description of Work PERFORMED 3 INCH HOT TAP FOR HIGH CAPACITY DRAINING S.W. HEADER IN 30"-HBC-211 UNIT 2 VALVE BOX 2VB-2 "B" TRAIN PER MDC SNC87221 AND WO# SNC328560.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure 125 psi Test Temp. 85 °F

## APPENDIX C

## FORM NIS-2 (Back)

9. Remarks Install 3 Inch High Capacity Drain to S.W. 30"-HBC-211 located inside Unit 2 Valve Box 2VB-2 on "B" Train per  
Applicable Manufacturer's Data Reports to be attached  
MDC SNC87221 and WO# SNC328560.

See PO# SNA10018087 for 3 inch pipet. See PO# QP110393 for 3 inch ball valves.

See WO# SNC318135 for fabrication of 3 inch drain valve assembly.

Note: The below comment combines two (2) ball valves to make one (1) because of leakage through valve stem, the body and ball of the existing ball valve with Serial Number A110509-1-6. Also, the body (part# 1) and the ball (part# 2) of Serial Number A110509-1-6 along with the studs (part# 8) and nuts (part# 10) of Serial # A110509-1-9 was sent back to Manufacture (BNL Industries, Inc.) for determination of leakage problem.

\*Denotes the ends caps (part number 4 of vendor drawing U-518679), hex nut 3/4-10 UNC-3B (part # 10), studs 3/4-10 UNC-2A x 8 inch long (part # 8) of ball valve with Serial Number A110509-1-6 will be used in conjunction using ball (part# 2) and body (part# 1) of ball valve with Serial Number A110509-1-8.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that this \_\_\_\_\_ conforms to the rules of the ASME Code, Section XI. \_\_\_\_\_ repair or replacement

Type Code  
Symbol Stamp

N/A

Certificate of  
Authorization  
No.

N/A

Expiration  
Date

N/A

Signed

Robert B. Smith, Site Design  
 Owner or Owner's Designee, Title Manager

Date

11/28/11

## 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 CONNECTICUT and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period 9/22/11 to 11/28/11 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]  
 Inspector's Signature

Commission  
s

12601 01-827 A/N

National Board, State, Province and Endorsements

Date \_\_\_\_\_

## APPENDIX C

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner Southern Nuclear Operating Company Date September 07., 2011  
     Name  
     40 Inverness Center Parkway  
     Birmingham, Alabama 35242  
     (An agent for Alabama Power Company)  
     Address
2. Plant Farley Nuclear Plant Unit TWO  
     Name  
     Highway 95 South  
     Columbia, Alabama 36319  
     Address
3. Work Performed by Southern Nuclear Operating Company / ES - Modifications Type Code Symbol  
     Name Stamp N/A  
     Authorization No. N/A  
     Expiration Date N/A  
     Address Farley Nuclear Plant  
     Address
4. Identification of System P16 - Service Water CLASS 3 Rev 2/8/12
5. (a) Applicable Construction Code            Edition,            Addenda,            Code Case  
     (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 / 2003 Rev 2/8/12  
     (c) Applicable Section XI Code Case(s) N/A
6. Identification Of Components : 3 INCH DRAIN VALVE Q2P16V0368B

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
PIPET	WFI NUCLEAR PRODUCTS	HEAT # 5094ANR1	N/A	PO# SNA10019087	2009	INSTALLED	NO
3 INCH BALL VALVE	BNL INDUSTRIES INC.	S/N A081213-2-2	N/A	Q2P16V0368B PO# QP081178	2009	INSTALLED	YES

7. Description of Work PERFORMED 3 INCH HOT TAP FOR HIGH CAPACITY DRAINING S.W. HEADER IN 30"-HBC-211 UNIT 2 VALVE BOX 2VB-2 "B" TRAIN PER MDC SNC87221 AND WO# SNC328562.

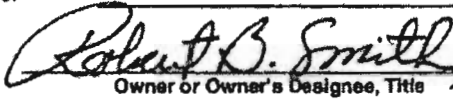
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
     Other ☐ Pressure 125 psi Test Temp. 95 °F


SHARED

## APPENDIX C

## FORM NIS-2 (Back)

9. Remarks Install 3 inch High Capacity Drain to S.W. 30" HBC-211 Inside Unit 2 Valve Box 2VB-2 on "B" Train per  
Applicable Manufacturer's Data Reports to be attached  
MDC SNC87221 and WO# SNC328562.
- See PO# SNA10019087 for 3 inch pipet. See PO# QP081178 for 3 inch ball valve.
- See WO# SNC318135 for fabrication of 3 inch drain valve assembly.

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this _____ conforms to the rules of the ASME Code, Section XI. repair or replacement			
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed	 Owner or Owner's Designee, Title		Date <u>11/28/11</u> Site Design Manager

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 <u>CONNECTICUT</u> and employed by <u>HSB CT</u> of <u>HARTFORD</u> <u>CT</u> have inspected the components described in this Owner's Report during the period <u>9/07/11</u> to <u>11/28/11</u> and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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	Commission # <u>12564 41827 AIN</u> National Board, State, Province and Endorsements
Date <u>11/28/11</u>	

## APPENDIX C

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner Southern Nuclear Operating Company Date September 07., 2011  
40 Inverness Center Parkway  
Birmingham, Alabama 35242  
(An agent for Alabama Power Company)  
 Address Sheet 1 of 2  
 2. Plant Farley Nuclear Plant Unit TWO  
Highway 95 South  
Columbia, Alabama 36319  
 Address P16 - WO# SNC327764  
Repair/Replacement Organization P.O. No., Job No., etc.  
 3. Work Performed by Southern Nuclear Operating Company / ES - Modifications Type Code Symbol  
Farley Nuclear Plant Stamp N/A  
 Address Authorization No. N/A  
 Expiration Date N/A  
 4. Identification of System P16 - Service Water CLASS 3 Per 2/8/12  
 5. (a) Applicable Construction Code                      Edition,                      Addenda,                      Code Case  
 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001/2003 Per 2/8/12  
 (c) Applicable Section XI Code Case(s) N/A  
 6. Identification Of Components : 3 INCH DRAIN VALVE Q2P16V0367A

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
PIPET	WFI NUCLEAR PRODUCTS	HT.# 5084ANR1	N/A	PO# SNA10019087	2009	INSTALLED	NO
3 INCH BALL VALVE	BNL INDUSTRIES INC.	A110509-1-2	N/A	Q2P16V0367A PO# QP110393	2011	INSTALLED	YES

7. Description of Work PERFORMED 3 INCH HOT TAP FOR HIGH CAPACITY DRAINING S.W. HEADER IN 30"-HBC-211 UNIT 2 VALVE BOX 2VB-2 "A" TRAIN PER MDC SNC87221 AND WO# SNC327764.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure 125 psi Test Temp. 85 °F



## APPENDIX C

## FORM NIS-2 (Back)

9. Remarks Install 3 inch High Capacity Drain to S.W. 30'-HBC-211 inside Unit 2 Valve Box 2VB-2 on "A" Train per  
Applicable Manufacturer's Data Reports to be attached  
MDC SNC87221 and WO# SNC327764.
- See PO# SNA10019087 for 3 inch pipet. See PO# QP110393 for 3 inch ball valve.

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this _____ conforms to the rules of the ASME Code, Section XI.			
Type Code Symbol	N/A		
Stamp			
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed	<u>Robert B. Smith, Site Design Manager</u> Date <u>11/28/11</u> 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			
Province of	<u>GEORGIA</u>	and employed by	<u>NSA CT</u> of <u>MEMPHIS</u>
<u>CT</u> have inspected the components described in this Owner's Report during the period <u>9/27/11</u> to <u>11/28/11</u>			
and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.			
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.			
<u>[Signature]</u> Inspector's Signature		Commission <u>NSA 61827 AIN</u> National Board, State, Province and Endorsements	
Date <u>11/28/11</u>			

## APPENDIX C

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner Southern Nuclear Operating Company Date November 02, 2011  
 Name  
 40 Inverness Center Parkway  
 Birmingham, Alabama 35242  
 (An agent for Alabama Power Company)  
 Address  
 2. Plant Farley Nuclear Plant Sheet 1 of 2  
 Name  
 Highway 95 South  
 Columbia, Alabama 36319  
 Address  
 Unit TWO  
P16 - WO# SNC316233  
 Repair/Replacement Organization P.O. No., Job No., etc.  
 3. Work Performed by Southern Nuclear Operating Type Code Symbol  
Company / ES - Modifications Stamp N/A  
 Name Authorization N/A  
Farley Nuclear Plant No. N/A  
 Address Expiration Date N/A  
 4. Identification of System P16 - Service Water CLASS 3 Rev 2/8/12  
 5. (a) Applicable Construction Code            Edition,            Addenda,            Code Case  
 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 / 2003 Rev 2/8/12  
 (c) Applicable Section XI Code Case(s) N/A

## 6. Identification Of Components : FROM 8"-HBC-28 TO 8"-HCC-355

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
PIPE	ITT GRINNEL	HT# 29006	N/A	P16-HBC-28 FNP2-28	1974	REMOVED	NO
8 INCH S.S. PIPE	ZHEJIANG JULI HI-TECH METALS CO. LTD	YX1001-079	N/A	P16 8"-HCC-355 PO# SNA10016432	2010	INSTALLED	NO
8 INCH C.S. PIPE	INTERPIPE	46651	N/A	P16 8"-HBC-28 PO# SNA10016432	2011	INSTALLED	NO
8"-150# WNRF FLG.	WESTERN FORGE & FLANGE CO.	41515EVS	N/A	P16 HCC-355 PO# SNA10016432	2011	INSTALLED	NO
8"-150# WNRF FLG.	WESTERN FORGE & FLANGE CO.	519557	N/A	P16 HCC-355 PO# QP090704	2009	INSTALLED	NO
3/4" NUTS	NOVA MACHINE PRODUCTS, CORP.	5092414	N/A	PO# QP101110	2010	INSTALLED	NO
3/4" STUDS	VULCAN THREADED PRODUCTS, INC.	10005750	N/A	PO# QP100749	2007	INSTALLED	NO
8 INCH BUTTERFLY VALVE	HENRY PRATT CO.	1310915DD-1-1	N/A	Q2P16V0802B PO# SNA10016331	2011	INSTALLED	YES

7. Description of Work Removed approximately 5'-9 1/4" of 8" CS Pipe and Replaced with New Stainless Steel and Carbon Steel Pipe along with adding a new 8" Stainless Steel Butterfly Valve Q2P16V0802B.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure 100 psi Test Temp. 72 °F

SHARED

## APPENDIX C

## FORM NIS-2 (Back)

9. Remarks Removed approximately 5'-9 1/4" of 8" CS Pipe and Replaced with New Stainless Steel Pipe along with  
Applicable Manufacturer's Data Reports to be attached  
adding a new 8" Stainless Steel Butterfly Valve Q2P16V0802B per DCP SNC313414 and WO# SNC316233.  
Performed a Satisfactory In Service Leak Test SNC313414-01-IS (VT-2).

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this <u>Replacement</u> conforms to the rules of the ASME Code, repair or replacement			
Section XI.			
Type Code Symbol	N/A		
Stamp			
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed	<u>Robert B. Smith, Site Design Manager</u>		Date <u>11/2/11</u>
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 <u>GEORGIA</u> and employed by <u>HSB CT</u> of <u>HARTFORD CT</u>	
have inspected the components described in this Owner's Report during the period <u>08/31/2011</u> to <u>11/01/2011</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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	Commission s <u>WB12603A1A, GA690</u> National Board, State, Province and Endorsements
Date <u>11/02/2011</u>	

## APPENDIX C

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner SOUTHERN NUCLEAR OPERATING CO. Date 10/19/11  
     Name  
     40 INVERNESS CENTER PARKWAY Sheet 1 of 2  
     BIRMINGHAM, AL. 35242  
     Address
2. Plant JOSEPH M. FARLEY NUCLEAR PLANT Unit FNP UNIT 2  
     Name  
     7388 NORTH STATE HWY. 95 E21- SNC75200 (2090968806)  
     COLUMBIA, AL. 36319  
     Address Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed by SOUTHERN NUCLEAR Type Code Symbol N/A  
     OPERATING CO/ SITE DESIGN Stamp  
     MODS Authorization No. N/A  
     Name Expiration Date N/A  
     FARLEY NUCLEAR PLANT  
     7388 NORTH STATE HWY. 95  
     COLUMBIA, AL. 36319  
     Address
4. Identification of System Q2E21MOV8106 (V265) CHG PUMPS MINIFLOW ISO ASME CLASS 2
5. (a) Applicable Construction Code 68 Draft pump and valve code Edition, Addenda, Code Case  
     (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 ED, 2003 AD  
     (c) Applicable Section XI Code Case(s)
6. Identification Of Components No code data report received K Burkett 11/10/11 *K Burkett*

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
BONNET ASSEMBLY	VELAN	171	N/A		1968	REMOVED	
BONNET	VELAN	S-112018-1	N/A	S/N18554	2011	INSTALLED	YES
LEAK OFF PIPE	VELAN		N/A	TRACE CODE 21QH	2011	INSTALLED	NO
BONNET STUDS	VELAN	15A	N/A	TRACE # LL69 HT# 562414	2011	INSTALLED	NO
BONNET NUTS	VELAN	16A	N/A	TRACE # RH HT# G14771	2011	INSTALLED	NO

7. Description of Work Replaced top works assembly bonnet, studs and nuts leak off piping, stem, packing, yoke and operator

## APPENDIX C

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this _____ conforms to the rules of the ASME Code, Section XI.			
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed	<u>Robert B. Smith, Site Design Manager</u>	Date	11/28/11
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 <u>CONNECTICUT</u> and employed by <u>HEB CO</u> of <u>ROCTON, CT</u>	
have inspected the components described in this Owner's Report during the period <u>10/28/11</u> to <u>11/28/11</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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	Commission # <u>123456789</u> National Board, State, Province and Endorsements
Date <u>11/28/11</u>	

## APPENDIX C

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner SOUTHERN NUCLEAR OPERATING CO. Date 10/19/11  
                     Name  
                     40 INVERNESS CENTER PARKWAY  
                     BIRMINGHAM, AL. 35242  
                     Address  
                     JOSEPH M. FARLEY NUCLEAR PLANT  
                     Name  
                     7388 NORTH STATE HWY. 95  
                     COLUMBIA, AL. 36319  
                     Address
2. Plant JOSEPH M. FARLEY NUCLEAR PLANT Unit FNP UNIT 2  
                     Name  
                     7388 NORTH STATE HWY. 95  
                     COLUMBIA, AL. 36319  
                     Address  
                     E21- SNC7520 (2090968808)  
                     Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed by SOUTHERN NUCLEAR Type Code Symbol N/A  
                             OPERATING CO/ SITE DESIGN  
                             MODS  
                             Name  
                             FARLEY NUCLEAR PLANT  
                             7388 NORTH STATE HWY. 95  
                             COLUMBIA, AL. 36319  
                             Address  
                             Authorization No. N/A  
                             Expiration Date N/A
4. Identification of System Q2E21MOV8107 (V257) CHG PUMPS TO REGEN HX ASME CLASS 2
5. (a) Applicable Construction Code 68 Draft pump and valve code Edition,                      Addenda,                      Code Case                       
      (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 ED. 2003 AD  
      (c) Applicable Section XI Code Case(s)
6. Identification Of Components No code data report received K Burkett 11/10/11 *K Burkett*

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
BONNET ASSEMBLY	VELAN	167	N/A	U217804	1968	REMOVED	
BONNET	VELAN	S-112018-2	N/A	S/N18555	2011	INSTALLED	YES
LEAK OFF PIPE	VELAN		N/A	TRACE CODE 2IQH	2011	INSTALLED	NO
BONNET STUDS	VELAN	15A	N/A	TRACE # LL89 HT# 562414	2011	INSTALLED	NO
BONNET NUTS	VELAN	16A	N/A	TRACE # RH HT# G14771	2011	INSTALLED	NO

7. Description of Work Replaced top works assembly bonnet, studs and nuts leak off piping, stem, packing, yoke and operator


## APPENDIX C


8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this _____ conforms to the rules of the ASME Code, Section XI.			
repair or replacement			
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed	 Owner or Owner's Designee, Title		Date 11/20/11

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 <u>CONNECTICUT</u> and employed by <u>URS</u> of <u>WATERBURY, CT</u>	
have inspected the components described in this Owner's Report during the period <u>11/12/11</u> to <u>11/20/11</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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	Commission # <u>12567 64 827 AIN</u> National Board, State, Province and Endorsements
Date <u>11/20/11</u>	

SHARED

## APPENDIX C

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner SOUTHERN NUCLEAR OPERATING CO. Date 10/19/11  
40 INVERNESS CENTER PARKWAY  
BIRMINGHAM, AL. 35242 Sheet 1 of 2  
Address
2. Plant JOSEPH M. FARLEY NUCLEAR PLANT Unit FNP UNIT 2  
7388 NORTH STATE HWY. 95 E21- SNC75201 (2090968806)  
COLUMBIA, AL. 36319  
Address Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed by SOUTHERN NUCLEAR Type Code Symbol N/A  
OPERATING CO/ SITE DESIGN Stamp  
MODS Authorization No. N/A  
Name Expiration Date N/A  
FARLEY NUCLEAR PLANT  
7388 NORTH STATE HWY. 95  
COLUMBIA, AL. 36319  
Address
4. Identification of System Q2E21MOV8108 (V258) CHG PUMPS TO REGEN HX ASME CLASS 2
5. (a) Applicable Construction Code 68 Draft pump and valve code Edition, Addenda, Code Case  
 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 ED, 2003 AD  
 (c) Applicable Section XI Code Case(s)
6. Identification Of Components No code data report received K Burkett 11/10/11 *K Burkett*

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
BONNET ASSEMBLY	VELAN	167	N/A	U217804	1968	REMOVED	
BONNET	VELAN	S-112018-3	N/A	S/N18557	2011	INSTALLED	YES
LEAK OFF PIPE	VELAN		N/A	TRACE CODE 2IQH	2011	INSTALLED	NO
BONNET STUDS	VELAN	16A	N/A	TRACE # LL69 HT# 562414	2011	INSTALLED	NO
BONNET NUTS	VELAN	16A	N/A	TRACE # RH HT# G14771	2011	INSTALLED	NO

7. Description of Work Replaced top works assembly bonnet, studs and nuts leak off piping, stem, packing, yoke and operator



SHARED

## APPENDIX C

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this _____ conforms to the rules of the ASME Code, Section XI. _____ repair or replacement			
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed	<u>Robert B. Smith</u> Owner or Owner's Designee, Title	<u>Site Design Manager</u> Date	<u>11/28/11</u>

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 <u>CONNECTICUT</u> and employed by <u>URS</u> of <u>HARTFORD, CT</u> have inspected the components described in this Owner's Report during the period <u>11/29/11</u> to <u>11/29/11</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.	
<u>[Signature]</u> Inspector's Signature	Commission s <u>12564 6A827 HN</u> National Board, State, Province and Endorsements
Date <u>11/28/11</u>	

Figure 1

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner Southern Nuclear Operating Company Date January 31, 2012  
40 Inverness Ctr Pkwy, Birmingham, Al. 35242 Sheet 1 of 2  
 Address
2. Plant Joseph M. Farley Nuclear Plant (FNP) Unit FNP Unit 2  
7388 N. State Hwy 95, Columbia, Al. 36319 WO# SNC 83744 PIG # 112  
 Address Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed by FNP Maintenance Department Type Code Symbol Stamp N/A  
7388 N. State Hwy 95, Columbia, Al. 36319 Authorization No. N/A  
 Address Expiration Date N/A
4. Identification of System TPNS: Q2P16V504, - Code Class 3
5. (a) Applicable Construction Code Section III 1971 Edition, Summer 1971 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, 2003 Addenda  
 (c) Applicable Section XI Code Case(s) N/A

## 6. Identification Of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
VALVE	HENRY PRATT	A-000864	N/A	FNP2-43	1974	REMOVED	YES
VALVE	HENRY PRATT	737030DD-5	N/A	QP051001	2007	INSTALLED	YES
STUDS (3)	UNK	UNK	N/A	UNK	UNK	REMOVED	NO
STUDS (2)	NOVA	M35586	N/A	QP110243	2011	INSTALLED	NO
STUD (1)	NOVA	59709	N/A	QP070499	2007	INSTALLED	NO

7. Description of Work
- REPLACED VALVE PER WORK ORDER SNC83744

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure NOP psi Test Temp. NOT °F

SHARED


Figure 1

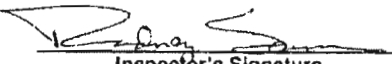
## FORM NIS-2 (Back)

## 9. Remarks

Applicable Manufacturer's Data Reports to be attached

Replaced valve and three studs per WO# SNC83744. Transaction numbers for material used in this work are 1280105, 1041467, and 1357665.

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this <u>REPLACEMENT</u> conforms to the rules of the ASME Code, Section XI.			
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed	 FOR LEONARD SMITH, MNT MGR Date <u>2/3/12</u>		
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 <u>GEORGIA</u> and employed by <u>HSB CT</u> of <u>HARTFORD CT</u> have inspected the components described in this Owner's Report during the period <u>02/03/2012</u> to <u>02/03/2012</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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 <u>12663 A14 GA690</u> National Board, State, Province and Endorsements
Date <u>02/03/2012</u>	

SHARED

Figure 1

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner Southern Nuclear Operating Company Date January 31, 2012  
40 Inverness Ctr Pkwy, Birmingham, Al. 35242  
 Name  
 Address
2. Plant Joseph M. Farley Nuclear Plant (FNP) Unit FNP Unit 2  
7388 N. State Hwy 95, Columbia, Al. 36319  
 Name  
 Address WO# SNC74654  
 Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed by FNP Maintenance Department Type Code Symbol Stamp N/A  
7388 N. State Hwy 95, Columbia, Al. 36319  
 Name  
 Address Authorization No. N/A  
 Expiration Date N/A
4. Identification of System TPNS: Q2E12H001C, - Code Class 3
5. (a) Applicable Construction Code Section III 1989 Edition, No Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, 2003 Addenda  
 (c) Applicable Section XI Code Case(s) N/A

## 6. Identification Of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
END COVER PLATE ASSY	AEROFIN	723137(HT)	N/A	QP980800	1998	REMOVED	YES
END COVER PLATE ASSY	AEROFIN	060111	1994	QP050726	2006	INSTALLED	YES

7. Description of Work
- REPLACED END COVER PLATE ASSEMBLY. THE EXISTING PLATE WAS WARPED.

8. Test Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure NOP psi Test Temp. NOT °F

Figure 1

## FORM NIS-2 (Back)

## 9. Remarks

VT-2 performed under WO: 353752 (FNP-2-STR-156.3) Per Code 2/7  
 Applicable Manufacturer's Data Reports to be attached  
 Transaction No. 1389127 for Item No. 581171 is for the entire cooling coil. End plate assembly was removed from the new cooling  
 Coil and installed on the existing coil per WO# SNC74654.

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this <u>REPLACEMENT</u> conforms to the rules of the ASME Code, Section XI.			
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed	<u>FOR LEONARD SMITH, MNT MGR</u> Owner or Owner's Designee, Title	Date	<u>2/3/12</u>

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 <u>GEORGIA</u> and employed by <u>HSB CT</u> of <u>HARTFORD CT</u> have inspected the components described in this Owner's Report during the period <u>02/03/2012</u> to <u>02/08/2012</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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 <u>[Signature]</u>	Commissions <u>1260341N</u> National Board, State, Province and Endorsements
Date <u>02/08/2012</u>	

Figure 1

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner Southern Nuclear Operating Company Date November 16, 2011  
     Name  
     40 Inverness Ctr Pkwy, Birmingham, Al. 35242 Sheet 1 of 2  
     Address
2. Plant Joseph M. Farley Nuclear Plant (FNP) Unit FNP Unit 2  
     Name  
     7388 N. State Hwy 95, Columbia, Al. 36319 Work Order: SNC335890  
     Address Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed by FNP Maintenance Department Type Code Symbol Stamp N/A  
     Name  
     7388 N. State Hwy 95, Columbia, Al. 36319 Authorization No. N/A  
     Address Expiration Date N/A
4. Identification of System TPNS: Q2E21V130A, A Seal Water Inj Filter Outlet, - Code Class 2
5. (a) Applicable Construction Code Section III, 1971 Edition, Summer 1971 Addenda, N/A Code Case  
     (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, 2003 Addenda  
     (c) Applicable Section XI Code Case(s) N/A
6. Identification Of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2" VALVE	ROCKWELL	50ABS	N/A	QP2262	1988	REMOVED	YES
2" VALVE	KEROTEST	97BLQ	N/A	QP070792	2008	INSTALLED	YES
2" PIPE	CAPITAL PIPE	2P6222	N/A	7047-Q-62430	1973	REMOVED	NO
2" PIPE	SANDVICK	442617	N/A	QP990861	1998	INSTALLED	NO
2" ELBOW	APCO	UNK	N/A	UNK	1971	REMOVED	NO
2" ELBOW	MIDSOUTH	J25	N/A	QP110078	2011	INSTALLED	NO
2" U-BOLT	GRINNEL	FIG.137	N/A	QP1255	1986	REMOVED	NO
2" U-BOLT	ANVIL	FIG.137	N/A	QP090576	2009	INSTALLED	NO

7. Description of Work Replaced valve and piping and replaced an associated u-bolt support.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
     Other ☐ Pressure NOP psi Test Temp. NOT °F

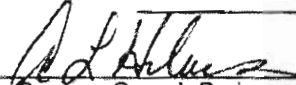
Figure 1

## FORM NIS-2 (Back)

## 9. Remarks

Applicable Manufacturer's Data Reports to be attached

Replaced valve and piping and associated U-bolt support U-bolt support consists of two u-bolts with nuts and is commercially dedicated (Comm. Ded. Plan SCM-CGDP-087) A VT-3 exam was performed on the support. Code of construction for support is AISC-1969. All work performed on WO# SNC335890. Transaction numbers for materials include 1370573, 1370575, 1370613, and 1376024.

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this <u>REPLACEMENT</u> <sup>2/7/12</sup> conforms to the rules of the ASME Code, Section XI.			
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed	 FOR LEONARD SMITH, MNT. MGR Date <u>2/3/12</u> <sup>2/7/12</sup>		
Owner or Owner's Designee, Title			

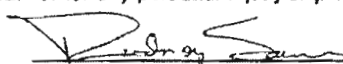
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or Province of <u>GEORGIA</u> and employed by <u>HSB CT</u> of <u>HARTFORD CT</u> have inspected the components described in this Owner's Report during the period <u>02/03/2012</u> to <u>02/07/2012</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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 <u>12603 AIN GA690</u> National Board, State, Province and Endorsements
Date <u>02/07/2012</u>	





Figure 1

## FORM NIS-2 (Back)

## 9. Remarks

Applicable Manufacturer's Data Reports to be attached

Replaced valve and piping and associated U-bolt support. U-bolt support consists of two u-bolts with nuts and is commercially dedicated (Comm. Ded. Plan SCM-CGDP-087). A VT-3 exam was performed on the support. Code of construction for support is AISC-1969. All work performed on WO# SNC 79337 <sup>2/1/12</sup> ~~SNC 335499~~. Transaction numbers for materials include 1370573, 1370575, 1370613, and 1376024.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that this REPLACEMENT <sup>2/3/12</sup> conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

FOR LEONARD SMITH, MNT MGR <sup>2/1/12</sup> Date 2/3/12  
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 GEORGIA and employed by HSB CT of HARTFORD CT have inspected the components described in this Owner's Report during the period 02/03/2012 to 02/07/2012, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]  
Inspector's Signature

Commissions

12603 AIN GAL90  
National Board, State, Province and Endorsements

Date 02/07/2012

Figure 1

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner Southern Nuclear Operating Company Date February 8, 2012  
40 Inverness Ctr Pkwy, Blmington, Al 35242 Sheet 1 of         
       Address  
 2. Plant Joseph M. Farley Nuclear Plant (FNP) Unit FNP- UNIT 2  
7388 N. Sate Hwy 95, Columbia, Al. 36319 WO# SNC72520 - E21  
       Address Repair/Replacement Organization P.O. No., Job No., etc.  
 3. Work Performed by FNP Maintenance Department Type Code Symbol N/A  
       Name Stamp  
7388 N. Sate Hwy 95, Columbia, Al. 36319 Authorization N/A  
       Address No. Expiration N/A  
       Date  
 4. Identification of System Q2E21P002C - CODE CLASS 2  
 5. (a) Applicable Construction Code Sect. III, 1968 Edition, Summer 1970 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, 2003 Addenda  
 (c) Applicable Section XI Code Case(s) N/A

## 6. Identification Of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
OUTER SEAL HSG-INBOARD	INGERSOL-RAND	47195-AA	N/A	QP960658	1996	REMOVED	NO
OUTER SEAL HSG-OUTBRD	PACIFIC PUMPS	2E299	N/A	QP3929	1989	REMOVED	NO
OUTER SEAL HSG-INBOARD	FLOWERVE	RLSA16521	N/A	QP100782	2011	INSTALLED	NO
OUTER SEAL HSG-OUTBRD	FLOWERVE	RLSA16519	N/A	QP100782	2011	INSTALLED	NO

7. Description of Work
- REPLACE MECHANICAL SEALS ON 2C CHG PMP

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure        psi Test Temp.        °F

Figure 1

## FORM NIS-2 (Back)

## 9. Remarks

Applicable Manufacturer's Data Reports to be attached

2C Chg Pump seals were overstressed when the pump suction piping was overpressurized WO# SNC72520 replaced

The pump seals and outer seal housing. Transaction numbers for the housing are 1551402 and 1551322

The new seals are approved by ED C090092701.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

R. V. Vachell Jr. L. Smith  
 ASSE. Maint. N/A Owner or Owner's Designee, Title

Date

2-8-12

## 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 GEORGIA and employed by H3B CT of HARTFORD CT have inspected the components described in this Owner's Report during the period 02/03/2012 to 02/08/2012, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]  
 Inspector's Signature

Commission s

12603A1N

National Board, State, Province and Endorsements

Date 02/08/2012

1. Owner	<u>Southern Nuclear Operating Company</u> <b>Name</b> <u>40 Inverness Ctr Pkwy, Birmingham, Al 35242</u> <b>Address</b>	Date	<u>February 2, 2012</u>
2. Plant	<u>Joseph M. Farley Nuclear Plant (FNP)</u> <b>Name</b> <u>7388 N. State Hwy 95, Columbia, Al. 36319</u> <b>Address</b>	Sheet	<u>1</u> of <u>2</u>
3. Work Performed by	<u>FNP Maintenance Department</u> <b>Name</b> <u>7388 N. State Hwy 95, Columbia, Al. 36319</u> <b>Address</b>	Unit	<u>FNP Unit 2</u>  <u>Work Order No.: SNC79194</u> <b>Repair/Replacement Organization P.O. No., Job No., etc.</b>
Identification of System	<u>TPNS #: Q2P16V081, P16- Service Water System</u>	Type Code Symbol Stamp	<u>N/A</u>
		Authorization No.	<u>N/A</u>
		Expiration Date	<u>N/A</u>
5. (a) Applicable Construction Code	<u>See Remarks</u>	Edition,	<u>N/A</u>
		Addenda,	<u>N/A</u>
		Code Case	<u>N/A</u>
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity	<u>2001 Edition, 2003 Addenda</u>		
(c) Applicable Section XI Code Case(s)	<u>N/A</u>		
6. Identification Of Components			

[illegible]

7. **Description of Work** Used body from existing valve and replaced the original disc with new disc.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure psi Test Temp. °F

## FORM NIS-2 (Back)

## 9. Remarks

Applicable Manufacturer's Data Reports to be attached  
Valve designed per ASME Section III 1974 Edition, Summer 1975 Addenda

ED: C061049701

SNC 79194 <sup>not</sup> 2/8/12

VT-2 performed under WD: SNC 86309, FNP-2-STP-156.7, *David Cox*  
2/8/12

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

*A. L. Belus*

MNT Support Supt.

Date

2/8/12

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 GEORGIA and employed by HSB CT of HARTFORD CT have inspected the components described in this Owner's Report during the period 02/03/2012 to 02/08/2012, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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

12603 A1N GAB90

National Board, State, Province and Endorsements

Date

02/08/2012

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code, Section XI

1. Owner: Southern Nuclear Operating Co. Date: October 17, 2011  
*Name*  
40 Inverness Center Parkway; Birmingham, AL 35242  
*Address*
2. Plant: Joseph M. Farley Nuclear Plant (FNP) Unit: FNP Unit 2  
*Name*  
7388 North State Hwy 95; Columbia, AL 36319  
*Address*
3. Work Performed By: FNP Maintenance Department Work Order No.: E13 - SNC82701  
*Name* *Repair/Replacement Organization PO No, Job No, etc.*  
7388 North State Hwy 95; Columbia, AL 36319 Type Code Symbol Stamp: N/A  
*Address* Authorization No.: N/A  
 Expiration Date: N/A
4. Identification of System: TPNS: Q2E13SNUBBCSR282B CONTAINMENT SPRAY SYSTEM, ASME CLASS 2
5. (a) Applicable Construction Code: See Remarks, N/A Edition, N/A Addenda, N/A Code Case  
*Year*  
 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 2001 Addenda: 2003  
*Year*  
 (c) Applicable Section XI Code Case(s): N/A
- 6 Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Hydraulic Snubber	ITT GRINNELL	2CS-R282	N/A	FNP-2-29	1977	Removed	NO
Hydraulic Snubber	ANVIL	38469	N/A	QP110051	2011	Installed	NO

7. Description of Work: Snubber 2CSR-282B was replaced as a scheduled upgrade Ref: Transaction # 1056847
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
 Other ☐ Pressure: \_\_\_\_\_ psi Test Temp.: \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

# FORM NIS-2 (Back)

9. Remarks

*Applicable Manufacturer's Data Reports to be attached*

Supports Designed to AISC-1969 and welded to AWS D1 1-86.

Reference equivalency determination C092050401

Ref: Transaction # 1056847

VT-3 Exam Performed after Installation

SNC82701 2/1/12

## CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp:

N/A

Certificate of Authorization No.:

N/A

Expiration Date:

N/A

Signed:

*Leonard Smith*

Leonard Smith, Maintenance Manager

Date:

2/3/12

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 GEORGIA and employed by H&R C.

of

HARTFORD CT

have inspected the components described in this

Owner's Report during the period

02/03/2012

to

02/07/2012

, and state that to

the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this

Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

*Ray Sam*  
Inspector's Signature

Commissions:

12603A1N GA690

National Board, State, Province, and Endorsements

Date:

02/07/2012

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code, Section XI

1. Owner:	Southern Nuclear Operating Co.	Date:	October 12, 2011
	<i>Name</i>		
	40 Inverness Center Parkway; Birmingham, AL 35242	Sheet:	1 of 2
	<i>Address</i>		
2. Plant	Joseph M. Farley Nuclear Plant (FNP)	Unit:	FNP Unit 2
	<i>Name</i>		
	7388 North State Hwy 95; Columbia, AL 36319	Work Order No.:	P17 - SNC82699
	<i>Address</i>		<i>Repair/Replacement Organization PO No, Job No, etc.</i>
3. Work Performed By:	FNP Maintenance Department	Type Code Symbol Stamp:	N/A
	<i>Name</i>		
	7388 North State Hwy 95; Columbia, AL 36319	Authorization No.:	N/A
	<i>Address</i>		
		Expiration Date:	N/A

4. Identification of System: TPNS: Q2P17SNUBBCCWR322B COMPONENT COOLING WATER SYSTEM, ASME CLASS 3

5. (a) Applicable Construction Code: See Remarks N/A Edition, N/A Addenda, N/A Code Case  
*Year*

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 2001 Addenda: 2003  
*Year*

(c) Applicable Section XI Code Case(s): N/A

## 6 Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Hydraulic Snubber	ITT GRINNELL	17807	N/A	FNP-222	1976	Removed	NO
Hydraulic Snubber	ANVIL	38477	N/A	QP110051	2011	Installed	NO

7. Description of Work: Snubber CCW-R322B was replaced as a scheduled upgrade Ref: Transaction # 1056843

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

Other ☐ Pressure: \_\_\_\_\_ psi Test Temp.: \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



# FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

Supports Designed to AISC-1969 and welded to AWS D1.1-86.

Reference equivalency determination C091933501

Ref: Transaction # 1056843

VT-3 Exam Performed after Installation

SNC82699 2/1/12

## CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp:

N/A

Certificate of Authorization No.:

N/A

Expiration Date:

N/A

Signed:

*Leonard Smith*

Leonard Smith, Maintenance Manager

Date:

2/3/12

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 GEORGIA and employed by HSB CT of HARTFORD CT have inspected the components described in this Owner's Report during the period 02/03/2012 to 02/08/2012, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

*Robert S. Smith*  
Inspector's Signature

Commissions:

12603A IN GA690

National Board, State, Province, and Endorsements

Date:

02/08/2012

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code, Section XI

1. Owner: Southern Nuclear Operating Co. Date: October 18, 2011  
Name  
40 Inverness Center Parkway; Birmingham, AL 35242  
Address

2. Plant: Joseph M. Farley Nuclear Plant (FNP) Unit: FNP Unit 2  
Name  
7388 North State Hwy 95; Columbia, AL 36319  
Address

3. Work Performed By: FNP Maintenance Department Work Order No.: P17 - SNC82690  
Name Repair/Replacement Organization PO No, Job No, etc.  
7388 North State Hwy 95; Columbia, AL 36319 Type Code Symbol Stamp: N/A  
Address Authorization No.: N/A  
Expiration Date: N/A

4. Identification of System: TPNS: Q2P17SNUBBCCWH58B COMPONENT COOLING WATER SYSTEM, ASME CLASS 3

5. (a) Applicable Construction Code: See Remarks N/A Edition, N/A Addenda, N/A Code Case  
Year  
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 2001 Addenda: 2003  
Year  
(c) Applicable Section XI Code Case(s): N/A

## 6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Hydraulic Snubber	ITT GRINNELL	14408	N/A	36803	1985	Removed	NO
Hydraulic Snubber	ANVIL	38466	N/A	QP110051	2011	Installed	NO
Adapter Plate	ANVIL	38466	N/A	QP110051	2011	Installed	NO

7. Description of Work: Snubber 2CCW-H58B was replaced as a scheduled upgrade Ref: Transaction # 1058687 , 1058685

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other ☐ Pressure: \_\_\_\_\_ psi Test Temp.: \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

# FORM NIS-2 (Back)

## 9. Remarks

Applicable Manufacturer's Data Reports to be attached

Supports Designed to AISC-1969 and welded to AWS D1.1-86.

Reference equivalency determination C091933501

Ref: Transaction # 1058687, 1058685

VT-3 Exam Performed after Installation

SNC82690 2/1/12

## CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp:

N/A

Certificate of Authorization No.:

N/A

Expiration Date:

N/A

Signed:

*Leonard Smith*

Leonard Smith, Maintenance Manager

Date:

2/13/12

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 Georgia and employed by HSB CT

of HARTFORD CT have inspected the components described in this

Owner's Report during the period 02/03/2012 to 02/08/2012, and state that to

the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this

Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

*[Signature]*

Inspector's Signature

Commissions:

12603A1N G4690

National Board, State, Province, and Endorsements

Date:

02/08/2012

# **FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**

As Required by the Provisions of the ASME Code, Section XI

1. Owner: Southern Nuclear Operating Co Date: October 12, 2011  
*Name*  
40 Inverness Center Parkway; Birmingham, AL 35242  
*Address*
2. Plant: Joseph M. Farley Nuclear Plant (FNP) Unit: FNP Unit 2  
*Name*  
7388 North State Hwy 95; Columbia, AL 36319  
*Address*
3. Work Performed By: FNP Maintenance Department Work Order No.: E11-SNC82723  
*Name* *Repair/Replacement Organization PO No, Job No, etc.*  
7388 North State Hwy 95; Columbia, AL 36319 Type Code Symbol Stamp: N/A  
*Address* Authorization No.: N/A  
 Expiration Date: N/A
4. Identification of System: TPNS: Q2E11SNUBBSIR123 SAFETY INJECTION SYSTEM, ASME CLASS 2
5. (a) Applicable Construction Code: See Remarks, N/A Edition, N/A Addenda, N/A Code Case  
*Year*
- (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 2001 Addenda: 2003  
*Year*
- (c) Applicable Section XI Code Case(s): N/A
6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Hydraulic Snubber	ITT GRINNELL	2SI-R123	N/A	FNP-222	1977	Removed	NO
Hydraulic Snubber	ANVIL	38274	N/A	QP101007	2009	Installed	NO

7. Description of Work: Snubber 2SI-R123 was replaced as a scheduled upgrade Ref: Transaction # 1244069
8. Tests Conducted. Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
- Other ☐ Pressure: \_\_\_\_\_ psi Test Temp.: \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

# FORM NIS-2 (Back)

## 9. Remarks

Applicable Manufacturer's Data Reports to be attached

Supports Designed to AISC-1969 and welded to AWS D1.1-86.

Reference equivalency determination C101300501

Ref: Transaction # 1244069

VT-3 Exam Performed after Installation

SNCB2723 <sup>over</sup> <sub>date</sub>

## CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp:

N/A

Certificate of Authorization No.:

N/A

Expiration Date:

N/A

Signed:

*W. R. Vaught for*

Leonard Smith, Maintenance Manager

Date:

2-3-12

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

GEORGIA

and employed by

HSB CT

of

HARTFORD CT

have inspected the components described in this

Owner's Report during the period

02/03/2012

to

02/07/2012

, and state that to

the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this

Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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:

12603A1N GA690

National Board, State, Province, and Endorsements

Date:

02/07/2012

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code, Section XI

1. Owner: Southern Nuclear Operating Co. Date: October 14, 2011  
*Name*  
40 Inverness Center Parkway; Birmingham, AL 35242  
*Address*
2. Plant: Joseph M. Farley Nuclear Plant (FNP) Unit: FNP Unit 2  
*Name*  
7388 North State Hwy 95; Columbia, AL 36319  
*Address*
3. Work Performed By: FNP Maintenance Department Work Order No.: E21- SNC82735  
*Name*  
7388 North State Hwy 95; Columbia, AL 36319  
*Address*
- Repair/Replacement Organization PO No, Job No, etc.  
 Type Code Symbol Stamp: N/A
- Authorization No.: N/A
- Expiration Date: N/A
- 4 Identification of System: TPNS# Q2E21SNUBBSS12716 CHEMICAL VOLUME CONTROL SYSTEM, ASME Class 2
- 5 (a) Applicable Construction Code: See Remarks, N/A Edition, N/A Addenda, N/A Code Case  
*Year*
- (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Addenda: 2003  
*Year*
- (c) Applicable Section XI Code Case(s): N/A
- 6 Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Mechanical Snubber	Pacific-Scientific	SS-12716	N/A	FNP-2-29	1977	Removed	NO
Hydraulic Snubber	Lisega	30900372/025	N/A	QP100730	2009	Installed	NO

7. Description of Work: Snubber SS-12716 was replaced as a scheduled upgrade Ref: Transaction # 1103205
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
- Other ☐ Pressure: \_\_\_\_\_ psi Test Temp.: \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

# FORM NIS-2 (Back)

## 9. Remarks

Applicable Manufacturer's Data Reports to be attached

Supports Designed to AISC-1969 and welded to AWS D1.1-86

Reference equivalency determination (ED) 96-0-0225 Rev 1

Ref: Transaction # 1103205

VT-3 Exam Performed after installation

SAC 82735 <sup>page 2/1/12</sup>

## CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp:

N/A

Certificate of Authorization No.:

N/A

Expiration Date:

N/A

Signed:

*W. R. Vaught for*

Leonard Smith, Maintenance Manager

Date:

2-3-12

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

GEORGIA

and employed by

HSB CT

of

HARTFORD CT

have inspected the components described in this

Owner's Report during the period

02/03/2012

to

02/07/2012

and state that to

the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this

Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

*[Signature]*  
Inspector's Signature

Commissions:

12603A1N GA690

National Board, State, Province, and Endorsements

Date:

02/07/2012

Figure 1

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
As Required By The Provisions Of The ASME Code Section XI

1. Owner Southern Nuclear Operating Co. Date 9/22/11  
Name  
40 Inverness Center Parkway; Birmingham, AL 35242  
Address  
 2. Plant Joseph M. Farley Nuclear Plant (FNP) Unit FNP Unit 2  
Name  
7388 North State Hwy. 95; Columbia, AL 36319  
Address  
 3. Work Performed by Williams Power Type Code Symbol N/A  
Name Stamp  
100 Crescent Centre Parkway, Suite 1240 Authorization N/A  
Tucker, Ga. 30084 No.  
Address Expiration N/A  
 Date  
 4. Identification of System TPNS: Q2E21V173 LTDN CATION BED DEMIN INLET ISO VALVE (code class 3)  
 5. (a) Applicable Construction Code Section III Edition, 1971 Addenda, 1971 Summer Code Case  
 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity YEAR 2001 ADDENDA 2003  
 (c) Applicable Section XI Code Case(s) N/A

## 6. Identification Of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
2" DIAPHRAGM VALVE	GRINNELL	73-2761-4-48	N/A	FNP2-115	1974	REMOVED	YES
2" PIPE	ITT GRINNELL	2"GCC-22	N/A	FNP2-26	1974	REMOVED	NO
2" DIAPHRAGM VALVE	BNL INDUSTRIES	A100608-1-1	N/A	QP100602	2009	INSTALLED	YES
2" PIPE	SANDVIK	519775	N/A	QP-090652	2007	INSTALLED	NO

7. Description of Work  
Replace Cation Bed Demin Valve Q2E21V173
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure ☐ Test Temp. ☐ °F





Figure 1

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
**As Required By The Provisions Of The ASME Code Section XI**

1. Owner Southern Nuclear Operating Company Date February 7, 2012  
     Name  
     40 Inverness Ctr Pkwy, Birmingham, Al. 35242 Sheet 1 of 3  
     Address
2. Plant Joseph M. Farley Nuclear Plant (FNP) Unit FNP UNIT 2  
     Name  
     7388 N. State Hwy 95, Columbia, Al. 36319 WO# SNC324095 - E21  
     Address Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed by FNP MAINTENANCE DEPARTMENT Type Code Symbol N/A  
     Name Stamp N/A  
     7388 N. State Hwy 95, Columbia, Al. 36319 Authorization N/A  
     Address No. N/A  
     Expiration Date N/A
4. Identification of System Q2E21-HCB-19 (PIPING), Q2E21V0182C (VALVE), and 2CVC-R246 (HANGER) - Code Class 2
5. (a) Applicable Construction Code Sect. III, 1971 Edition, Summer 1971 Addenda, N/A Code Case  
     (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, 2003 Addenda  
     (c) Applicable Section XI Code Case(s) N/A

## 6. Identification Of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Piping Spool	Grinnell	JG-19(B)-113	N/A	FNP2-26	1974	Removed	Yes
Piping Spool	Grinnell	JG-19(B)-112	N/A	FNP2-26	1974	Removed	Yes
Piping Spool	Grinnell	JG-19(B)-111	N/A	FNP2-26	1978	Removed	Yes
Studs/Nuts	Unk	Unk	N/A	Unk	Unk	Removed	No
6" Valve	Copes Vulcan	7110-95196-1-3	N/A	FNP2-2	1973	Removed	Yes
Tube Steel	J.M. Tull Metals	802	N/A	7071-Q-60157	1977	Removed	No
Plate (lugs)	Reynolds Aluminum	35170	N/A	7074-Q-63803	1976	Removed	No
Pipe	Walsin	11B185	N/A	SNA10018558	2011	Installed	No
Elbow (2)	Ezefflow	304L-PJK001P	N/A	SNA10018558	2011	Installed	No
Flange (2)	WFI	2850ANE	N/A	SNA10018558	2011	Installed	No
Flange (3)	WFI	5978ANE	N/A	SNA10018558	2011	Installed	No
Studs (3)	Mackson	S29985	N/A	QP010732	2001	Installed	No
Studs (21)	Midsouth	AHNG-10	N/A	SNA10021149	2011	Installed	No

Figure 1

SNC 324095 <sup>pub</sup> 2/8/12

Nuts (48)	Nova	5092414	N/A	QP110183	2011	Installed	No
6" Valve	Anchor Darling	E6801-2-2	N/A	SNA10021938	1986	Installed	Yes
Tube Steel	Leavitt	46341	N/A	QP070682	2007	Installed	No
Plate (lugs)	Tioga	9WT7	N/A	SNA10021149	2011	Installed	No

7. **Description of Work** Replaced charging pump suction piping Q2E21-HCB-19 and valve Q2E21V0182C that were overstressed when the suction piping was overpressurized. Also replaced parts of associated pipe hanger 2CVC-R248.

8. **Test Conducted:** Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Figure 1

## FORM NIS-2 (Back)

9. **Remarks** The replacement valve was approved per ED SNC336887. A VT-2 examination was performed on the installed piping and a  
Applicable Manufacturer's Data Reports to be attached
- VT-3 examination was performed on the installed hanger. All work was performed on Work Order SNC324095 Transaction  
numbers for Material are: 1280487, 1280491, 1280095, 1279009 1214007, 1338475, 1214005, 1335670 1388715, and  
1342035

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this <u>REPLACEMENT</u> conforms to the rules of the ASME Code, Section XI.			
Type Code Symbol	N/A		
Stamp			
Certificate of Authorization No.	N/A	Expiration Date	N/A
Signed	<u>[Signature] MNT Support Supt</u> Owner or Owner's Designee, Title		Date <u>2/8/12</u>

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 <u>GEORGIA</u> and employed by <u>HSB CT</u> of <u>HARTFORD CT</u>	
have inspected the components described in this Owner's Report during the period <u>10/07/2011</u> to <u>02/08/2012</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.	
<u>[Signature]</u> Inspector's Signature	Commission s <u>12603AIN</u> <u>94690</u> National Board, State, Province and Endorsements
Date <u>02/08/2012</u>	

# FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

As Required by the Provisions of the ASME Code, Section XI

- 1 Owner: Southern Nuclear Operating Co. Date: October 20, 2011  
*Name*  
40 Inverness Center Parkway; Birmingham, AL 35242  
*Address*
- 2 Plant: Joseph M. Farley Nuclear Plant (FNP) Unit: FNP Unit 2  
*Name*  
7388 North State Hwy 95; Columbia, AL 36319  
*Address*
- 3 Work Performed By: FNP Maintenance Department Work Order No.: P17 - SNC82691  
*Name* *Repair/Replacement Organization PO No, Job No, etc.*  
7388 North State Hwy 95; Columbia, AL 36319 Type Code Symbol Stamp: N/A  
*Address* Authorization No.: N/A  
 Expiration Date: N/A
- 4 Identification of System: TPNS: Q2P17SNUBBCCW-H149B COMPONENT COOLING WATER SYSTEM, ASME CLASS 3  
*R PWR 2/7/12*
5. (a) Applicable Construction Code: See Remarks, N/A Edition, N/A Addenda, N/A Code Case  
*Year*  
 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: 2001 Addenda: 2003  
*Year*  
 (c) Applicable Section XI Code Case(s): N/A
6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Hydraulic Snubber	ITT GRINNELL	14012	N/A	36803	1985	Removed	NO
Hydraulic Snubber	ANVIL	38453	N/A	QP110051	2011	Installed	NO
Adapter Plate	ANVIL	38453	N/A	QP110051	2011	Installed	NO

7. Description of Work: Snubber 2CCW-H149B was replaced as a scheduled upgrade Ref: Transaction # 1071385, 1071331

- 8 Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
 Other ☐ Pressure: \_\_\_\_\_ psi Test Temp.: \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

# FORM NIS-2 (Back)

## 9. Remarks

Applicable Manufacturer's Data Reports to be attached

Supports Designed to AISC-1969 and welded to AWS D1.1-86.

Reference equivalency determination C091933501

Ref: Transaction # 1071385, 1071331

VT-3 Exam Performed after Installation

SNC82691 <sup>over</sup> 2/9/12

## CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this <sup>REPLACEMENT 2/7/12</sup> conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp:

N/A

Certificate of Authorization No.:

N/A

Expiration Date:

N/A

Signed:

*[Signature]*

for Leonard Smith, Maintenance Manager  
Owner or Owner's Designee, Title

Date:

2-3-12

## 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 GEORGIA and employed by HSB CT of HARTFORD CT have inspected the components described in this Owner's Report during the period 02/03/2012 to 02/08/2012, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

*[Signature]*  
Inspector's Signature

Commissions:

1260321N GA690

National Board, State, Province, and Endorsements

Date:

02/08/2012