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,

M. J. Ajluni

**Nuclear Licensing Director** 

Mark of Cifui

MJA/EGA/lac

Enclosure: Joseph M. Farley Nuclear Plant - Unit 2, Inservice Inspection Report,

Refueling Outage 2R21, Owners Report

U. S. Nuclear Regulatory Commission NL-12-0242 Page 2

#### 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** 

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**

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

#### **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
- 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
- Inspection Period Identification: Second Period 12/01/10 to 11/30/14
- 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 29 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
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.
Inspector's Signature  Commissions 12603 AIN GA690  National Board, State, Province, and Endorsements
Date 02/09 20 12

#### 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: Represent

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 Coderequired 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 reexamination 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 2R21STEAM 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 ≥ 2 volts in all SGs. All additional dents and dings ≥ 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.

# Table 1 Farley Unit 2 2R21 Outage

Completion Perce	entages
ent of Population	Tota
· ·	

		Code		Percent of Population	Total Exams	2R21		
Cat.	Item No.	Case / ALT	Population	Required To Be Examined	Required During 4 <sup>th</sup> Interval	No. of Exams Completed	% of Total Exams Completed	
В-А	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%	

#### Table 1 Farley Unit 2 2R21 Outage

Completion	Percentages

		Code		Percent of Population	Total Exams		2R21
Cat.	Item No.	Case / ALT	Population	Required To Be Examined	Required During 4 <sup>th</sup> Interval	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%
В-К	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%

# Table 1 Farley Unit 2 2R21 Outage Completion Percentages

		Code		Percent of Population	Total Exams	:	2R21
Cat.	Item No.	Case / ALT	Population	Required To Be Examined	Required During 4 <sup>th</sup> Interval	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

Comp	letion	Percentages	

		Code		Percent of Population	Total Exams		2R21
Cat.	Item No.	Case / ALT	Population	Required To Be Examined	Required During 4 <sup>th</sup> Interval	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%

# Table 1 Farley Unit 2 2R21 Outage Completion Percentages

		Code	1 1	Percent of Population	Total Exams	2R21					
Cat.	t. Item No. Case / Population Required To Be ALT Examined		Required During 4 <sup>th</sup> Interval	No. of Exams Completed	% of Total Exams Completed						
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)	APR1-1300-CS-1R INTEGRAL ATTACHMENT AT 60°	NMP-ES-024-401	NA	S11F2M001	NRI	75% Code coverage. Relief request required.
B-G-2 B <b>7</b> .30	APR1-3300-N01 thru N32 STEAM GEN. NUTS (1 thru 32)	NMP-ES-024-201	NA	S11F2V082	Sat	Examined nuts and associated washers
B-G-2 B7.30	APR1-3300-S01 thru S32 STEAM GEN. STUDS (1 thru 32)	NMP-ES-024-201	NA	S11F2V083	Sat	Examined nuts and associated washers
N- <b>7</b> 22 B15.90	APR1-4100-1DM-BMV RPV HOT LEG SAFE END BMV	NMP-ES-024-202	NA	S11F2V095	Accept	NA
B-G-2 B7.70	APR1-4103-QV021C(B) VALVE BOLTING	NMP-ES-024-201	NA	S11F2V079	Sat	NA
B-J B9.21	APR1-4106-8 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	APR1-4106-9 PIPE TO ELBOW	NMP-ES-024-501	ALA-67	S11F2U010	NRI	Examined per MRP.
B-J B9.21	APR1-4106-10 ELBOW TO PIPE	NMP-ES-024-501	ALA-67	S11F2U011	NRI	Examined per MRP.
B-J B9.21	APR1-4106-11 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	APR1-4200-1DM-BMV RPV HOT LEG SAFE END BMV	NMP-ES-024-202	NA	S11F2V096	Accept	NA
B-G-2 B7.70	APR1-4202-QV021B(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	APR1-4205-44 ELBOW TO ELBOW	NMP-ES-024-501	ALA-7	S11F2U013	NRI	NA
B-J B9.11	APR1-4205-45 ELBOW TO ELBOW	NMP-ES-024-501	ALA-7	S11F2U014	NRI	NA
N-722 B15.90	APR1-4300-1DM-BMV RPV HOT LEG SAFE END BMV	NMP-ES-024-202	NA	S11F2V097	Accept	NA
B-G-2 B7.70	APR1-4303-QV021A(B) VALVE BOLTING	NMP-ES-024-201	NA	S11F2V081	Sat	NA
B-J B9.11	APR1-4304-17 ELBOW TO PIPE	NMP-ES-024-501	APR-1	S11F2U001	NRI	NA

#### 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-J B9.11	APR1-4304-18 PIPE TO VALVE	NMP-ES-024-501	APR-1, ALA-67	S11F2U002	NRI	50% Code coverage. Relief request required.
B-J B9.11	APR1-4304-19 VALVE TO PIPE	NMP-ES-024-501	APR-1, ALA-67	S11F2U003	NRI	50% Code coverage. Relief request required.
B-J B9.11	APR1-4304-20 PIPE TO ELBOW	NMP-ES-024-501	APR-1, ALA-67	S11F2U004	NRI	91.6% coverage. Examined per MRP.
B-J B9.11	APR1-4304-21 ELBOW TO PIPE	NMP-ES-024-501	APR-1	S11F2U005	NRI	Examined per MRP.
B-J B9.11	APR1-4305-3 VALVE TO PIPE	NMP-ES-024-501	APR-1, ALA-67	S11F2U006	NRI	50% Code coverage. Relief request required.
B-J B9.11	APR1-4305-4 PIPE TO ELBOW	NMP-ES-024-501	APR-1	S11F2U007	NRI	Examined per MRP.
B-J B9.11	APR1-4305-5 ELBOW TO PIPE	NMP-ES-024-501	APR-1	S11F2U008	NRI	Examined per MRP.
B-G-2 B7.70	APR1-4501-QV031A(B) VALVE BOLTING	NMP-ES-024-201	NA	S11F2V090	Sat	NA
B-J B9.40	APR1-4506-11 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	APR1-4506-12 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	APR2-4529-CVCS-2A17 (WS) WELDED ATTACHMENT	NMP-ES-024-301	NA	S11F2P004	NRI	NA	
C-C C3.20	APR2-4603-SI-2A10 (WS) WELDED ATTACHMENT	NMP-ES-024-301	NA	S11F2P003	NRI	NA	
C-C C3.20	APR2-4610-2SI-R46 (WS) WELDED ATTACHMENT	NMP-ES-024-301	NA	S11F2P005	NRI	NA	
C-C C3.20	APR2-4701-CS-2A8 (WS) WELDED ATTACHMENT	NMP-ES-024-301	NA	S11F2P001	NRI	NA	
C-C C3.30	APR2-5100-CS-1R (W1) 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)	APR1-1100-CS-1 RPV SUPPORT	NMP-ES-024-203	NA	S11F2V091	Sat	75% Code coverage. Relief request required.			
F-A F1.40(2)	APR1-1100-CS-2 RPV SUPPORT	NMP-ES-024-203	NA	S11F2V092	Sat	NA			
F-A F1.10D(2)	APR1-4101-2RH-R98 TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V072	Sat	NA			
F-A F1.10E(2)	APR1-4102-2SI-R189 SWAY STRUT	NMP-ES-024-203	NA	S11F2V045	Sat	NA			
F-A F1.10B(2)	APR1-4102-2SI-R190 ONE DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V046	Sat	NA			
F-A F1.10C(2)	APR1-4102-2SI-R357 SPRING CAN	NMP-ES-024-203	NA	S11F2V047	Sat	NA			
F-A F1.10D(2)	APR1-4103-2SI-R83 TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V044	Sat	NA			
F-A F1.10E(2)	APR1-4103-2SI-R85 SWAY STRUT	NMP-ES-024-203	NA	S11F2V043	Sat	NA			
F-A F1.10D(2)	APR1-4104-2SI-R117 TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V048	Sat	NA			
F-A F1.10B(2)	APR1-4104-2SI-R134 ONE DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V049	Sat	NA			
F-A F1.10E(2)	APR1-4104-2SI-R94 SWAY STRUT	NMP-ES-024-203	NA	S11F2V058	Sat	NA			
F-A F1.10B(2)	APR1-4105-2RC-R14 ONE DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V071	Sat	NA			
F-A F1.10C(2)	APR1-4106-2CVC-R772 SPRING CAN	NMP-ES-024-203	NA	S11F2V060	Sat	NA			
F-A F1.10C(2)	APR1-4108-2CVC-R779 SPRING CAN	NMP-ES-024-203	NA	S11F2V040	Unsat	IER-002 – Acceptable as is per Engineering evaluation.			
F-A F1.10D(2)	APR1-4112-SS-12381 TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V059	Sat	NA NA			
F-A F1.10C(2)	APR1-4503-2RC-R145 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)	APR1-5100-CS-1 REACTOR COOLANT PUMP 2A Q2B41P001A	NMP-ES-024-203	NA	S11F2V074	Sat	NA
F-A F1.40(2)	APR1-5100-CS-2 REACTOR COOLANT PUMP 2A Q2B41P001A	NMP-ES-024-203	NA	S11F2V075	Sat	NA
F-A F1.40(2)	APR1-5100-CS-3 REACTOR COOLANT PUMP 2A Q2B41P001A	NMP-ES-024-203	NA	S11F2V076	Sat	NA
F-A F1.20C(2)	APR2-4100-2MS-R613 SPING CAN W/ATT	NMP-ES-024-203	NA	S11F2V053	Sat	NA
F-A F1.20E(2)	APR2-4101-2MS-BR3 SWAY STRUT	NMP-ES-024-203	NA	S11F2V032 S11F2U093	Unsat Sat	IER-001 – repaired per WO 340260.
F-A F1.20D(2)	APR2-4101-2MS-R511 TWO DIRECTIONAL RESTRAINT W/STANC(3)	NMP-ES-024-203	NA	S11F2V036	Sat	NA
F-A F1.20E(2)	APR2-4150-2FW-R5 SWAY STRUT	NMP-ES-024-203	NA	S11F2V068	Unsat	Acceptable per Engineering evaluation.
F-A F1.20D(2)	APR2-4150-2FW-R6 TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V054	Sat	NA
F-A F1.20E(2)	APR2-4150-2FW-R9 SWAY STRUT	NMP-ES-024-203	NA	S11F2V073	Sat	NA
F-A F1.20E(2)	APR2-4501-2RHR-R121 SWAY STRUT	NMP-ES-024-203	NA	S11F2V001	Sat	NA
F-A F1.20A(2)	APR2-4504-RHR-2A2 ANCHOR W/ATT	NMP-ES-024-203	NA	S11F2V078	Sat	NA
F-A F1.20B(2)	APR2-4505-2SI-R102 ONE DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V077	Sat	NA
F-A F1.20C(2)	APR2-4506A-2SI-R995 SPING CAN (2)	NMP-ES-024-203	NA	S11F2V061	Unsat	IER-005 – acceptable per Engineering evaluation.
F-A F1.20D(2)	APR2-4510A-2SI-R111 TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V062	Sat	NA
F-A F1.20D(2)	APR2-4534-SS-10689 TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V002	Sat	NA
F-A F1.20E(2)	APR2-4602-2SI-R39 SWAY STRUT	NMP-ES-024-203	NA	S11F2V028	Sat	NA
F-A F1.20A(2)	APR2-4603-SI-2A10 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)	APR2-4608-2SI-R26 TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V003	Sat	NA	
F-A F1.20D(2)	APR2-4612-SS-12294 TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V050	Sat	NA	
F-A F1.20D(2)	APR2-4614-SS-12400 TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V038	Sat	NA	
F-A F1.20D(2)	APR2-4614-SS-12403 TWO DIRECTIONAL RESTRAINT	NMP-ES-024-203	NA	S11F2V039	Sat	NA	
F-A F1.20E(2)	APR2-4616-2SI-R7 SWAY STRUT	NMP-ES-024-203	NA	S11F2V004	Sat	NA	
F-A F1.20A(2)	APR2-4621-SS-12460 ANCHOR W/ATT	NMP-ES-024-203	NA	S11F2V037	Sat	NA	
F-A F1.20D(2)	APR2-4700-2CS-R306 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)	APR2-5130-CS-1 RHR PUMP (A) Q2E11P001A-A	NMP-ES-024-203	NA	S11F2V065	Sat	NA	
F-A F1.40(2)	APR2-5130-CS-2 RHR PUMP (A) Q2E11P001A-A	NMP-ES-024-203	NA	S11F2V066	Sat	NA	
F-A F1.40(2)	APR2-5130-CS-3 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	QI .	ITEM	INDICATION	ACCEPT	ED PER	MONITOR	IER
SKEICH	טו	DESCRIPTION	DESCRIPTION	EVALUATION	REPAIR/REPL	MONITOR	NUMBER
APR2-4101	2MS-BR3	Strut	Loose lock nut, paddle cannot be rotated by hand	-	×	-	001
APR1-4108	2CVC- R779	Spring Can	Misaligned causing rod to bind and not allow movement.	х	-	-	002
D515077	EG2-077- 2SW-R22	Pipe support	Corrosion noted on base material	х	-	-	003
RPV Sump	Cavity Liner	RPV Sump and Floor SNC86643	Spalling, minor cracking and surface staining.	х	-	-	004
APR2-4506A	2SI-R995	Spring Can	Missing load scale plate	-	Х	-	005
m=µ		Bolted Connections	Class 1 Leakage Test Indications		Х		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	



#### 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 C	perating Company		Date	Date September 07., 2011		
			Name					
		40 Inverness Cente						
		Birmingham, Alabai			<b>A1</b>			•
		(An agent for Alaba		<u>y</u>	Sheet	1	of	2
	Dlant	Farley Nuclear Plan	kddress		Unit	TWO		
2.	Plant	Pariey Nuclear Mar	Name		Unit		170	
		Highway 95 South	T TOP TOP TOP TOP TOP TOP TOP TOP TOP TO					
		Columbia, Alabama	36319				SNC328557	
			Address		Repair/Replace	ment Organi	zation P.O. No., Joi	b No., etc.
_								
3.	Work Per	formed by Southern			Type Code Symbol		N/A	
		Compan	y / ES - Modification	118	Stamp Authorization		NA	
			Name		No.		N/A	
					Expiration		7071	
		Farley	Nuclear Plant		Date		NA	
			Address		·			
4.	Identifica	tion of System			P16 - Service l	Nater CL	ASS 3 Now 2/8	3/12
_	4.3.4	-11-6			= 1h1			Ondo Cono
5.	(a) Applic	able Construction (	COOS		Edition,	AGO	enda,	Code Case
	(c) Applic	able Section XI Co	ton At Deed for M	eban/webia	cement Activity _2001 /	2003 10	-218/12	
	(c) Appac	SIDIO SECTION VI CO	19 C899(8) TIAN					
6.	Identifica	tion Of Component	8 : 3 INCH DRAIN \	ALVE Q2P	16V0368A			
				National			Corrected,	ASME Code
	ame of	Name of	Manufacturer	Board	Other	Year	Removed, or	Stamped
Cor	nponent	Manufacturer	Serial No.	No.	Identification	Built	Installed	(Yes or No)
F	PIPET	WFI NUCLEAR PRODUCTS	HT# 5094ANR1	N/A	PO# SNA10019087	2009	INSTALLED	NO
3	INCH	BNL INDUSTRIES			Q2P16V0368A			
BAL	L VALVE	INC.	A110509-1-7	N/A	PO# QP110393	2011	INSTALLED	YES
								1 1
		1	1			1	1	1
		1	1			ì		
			1			1		1
		<u></u>		ļ				
			[	1		l		1
		<u> </u>						
-	<b>5</b>	las atimos nene	onurn a Nicu w	T TAO EOE	HICH CADACITY DOAIN	11NG C W HE	ARER IN 30"-HRC.	211 IINIT 2
7.	Descript	ION OF WORK PEHF BOX 2VB-2 "A" TRA	UNINED 3 INCH PK	TAP FUE	HIGH CAPACITY DRAIN	mid 5.W. M	ADEN HY OU TIDO	211 01111 2
	VALVE	OUA ZVB-2 "A" THA	IN PER MUU SNU	IZZI AND	17 04 3110328337.			
	Total Con	adecado de	Hydrostatic	Pneumatic	Nominal Operating I	Pressure	Exempt	
8.	8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other Pressure 125 psi Test Temp. 95 °F							
			Onto Liess	120	- Not rearrampt.		<del>-</del> •	A.



#### APPENDIX C

#### FORM NIS-2 (Back)

9.	Remarks	Install 3 Inch High Capacity Drain to	S.W. 30'-HBC-211 inside Unit 2 Valv	re Box 2VB-2 on "A" Train per						
		Applicable Manufacturer's Data Reports to be attached MDC SNC87221 and WO# SNC328557.								
		WIDC SNC67221 8nd W O# SNC326357.								
	-	See PO# SNA10019087 for 3 Inch pipet. See PO# QP110393 for 3 inch bell valve.								
		See WO# SNC318135 for fabrication of	f 3 Inch drain valve assembly.							
		OCONE	CATE OF COMPLIANCE							
,	We certify the	CENTIFIC It the statements made in the report are c		conforms to the rules of the ASME						
Code, Sec			repair or replacement							
Type Coo Stamp	ie Symbol		N/A							
Certificat		N/A	Expiration Date	N/A						
Signed		Owner or Owner's Designes, Title	Mounger 11/	28/11_						
		CERTIFICATE	OF INSERVICE INSPECTION							
		gned, holding a valid commission issued	i by the National Board of Boller an	d Pressure Vessel Inspectors and the st.						
		ed the components described in this Own	er's Report during the period	9/07/11 10						
U/28/6	measures d	escribed in this Owner's Report in accord	knowledge and belief, the Owne lance with the requirements of the	r has performed examinations and taken ASME Code, Section XI.						
examinat	ions and con		's Report. Furthermore, neither the	ty, expressed or implied, concerning the Inspector nor his employer shall be liable nected with this inspection.						
	9	inspector's Signature	Commission 2564 64 National Board,	827 A1N State, Province and Endorsements						
	Date 11/2	<u>8/11</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 Name			Date	September 07., 2011			
		40 Inverness Center	r Parkway						
		Birmingham, Alaban		112	Sheet	1	<b>~</b> 4	2	
		(An agent for Alabama Power Company Address			Siteri		of	2	
2.	Plant	Farley Nuclear Plant			Unit		TWO		
		Name Highway 95 South							
		Columbia, Alabama 36319			P16 - WO# SNC328560				
		Address			Repair/Replacement Organization P.O. No., Job No., etc.				
3.	Work Performed by Southern Nuclear Operating			7	Type Code Symbol				
		Company / ES - Modifications			Stamp	Stamp N/A			
	Name				Authorization No.	N/A			
					Expiration	IVA			
	Farley Nuclear Plant				Data	• • • • • • • • • • • • • • • • • • • •			
4. Identification of System P16 - Service Water CLASS 3 Nu 2							10/12		
٦.									
5.		able Construction Code			Edition,				
	(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 / 2003 Rec 2/8/12.  (c) Applicable Section XI Code Case(s) N/A								
	(A) whenever property of page page(s) "IXC								
6. Identification Of Components: 3 INCH DRAIN VALVE Q2P16V0367B									
				National			Corrected,	ASME Code	
Na	me of	Name of	Manufacturer	Board	Other	Year	Removed, or	Stamped	
Con	nponent	Manufacturer	Serial No.	No.	Identification	Bullt	Installed	(Yes or No)	
PIPET		WF! NUCLEAR PRODUCTS	HEAT NUMBER 5094ANR1	N/A	PO# SNA10019087	2009	INSTALLED	NO	
3 INCH BALL VALVE		BNL INDUSTRIES INC.	SERIAL NUMBER A110509-1-8	N/A	Q2P16V0367B PO# QP110393	2011	'INSTALLED	YES	
3 INCH		BNL INDUSTRIES	SERIAL NUMBER	IVA	Q2P16V0367B	2011	INSTALLED	723	
	LVALVE	INC.	A110509-1-9	N/A	PO# QP110383	2011	INSTALLED	YES	
-									
							1	1 1	
								1	
****						· · · · · · · · · · · · · · · · · · ·		<del> </del>	
							<u> </u>		
								1	
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 WOW SNC328560.									
8.									
Other Pressure 125 psi Test Temp. 95 °F									



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 Man MDC SNC87221 and WO# SNC328560.	rufacturer's Data Reports to b	e attached								
	See PO# SNA10019087 for 3 moh pipet. See PO# Q	P110393 for 3 Inch ball valve	6.								
	See WO# SNC318135 for fabrication of 3 inch drain	n 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 stude (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 πut ¼-10 UNC-3B (part # 10), studs ¾-10 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										
	CEOTICATI	E OF COMPLIANCE									
We ce	rtify that the statements made in the report are corre		conforms to the rules of the ASME								
Code, Section )	o.	repair or replacement									
_											
Type Code Symbol Stamp		N/A									
Certificate of	N/A	Expiration	N/A								
Authorization No.		Date	4								
Signed 6	Kolant B. Smith, Ste De. Owner or Owner's Designee, Title Man	sign Date 11/26	3/U								
	CERTIFICATE OF	INSERVICE INSPECTION									
	undersigned, holding a valid commission Issued by	the National Board of Boiler									
or Province of	and employed by and employed the components described in this Owner's	Panor during the period	9/07/11 to								
11/28/4	, and state that to the best of my kn	owledge and belief, the Ow	ner has performed examinations and taken								
corrective meas	sures described in this Owner's Report in accordance	ce with the requirements of th	e ASME Code, Section XI.								
examinations a	gning this certificate neither the inspector nor his and corrective measures described in this Owner's R for any personal injury or property damage or a lose	leport. Furthermore, neither	the inspector nor his employer shall be liable								
_	Co	mmlssion									
		12601 648									
7	Inspector's Signature		, State, Province and Endorsements								
Date											

1. Owner

Southern Nuclear Operating Company

September 07., 2011



### APPENDIX C

Date

	40.1	Name					
	40 Inverness Cente Birmingham, Alabar						
	(An agent for Alaba		วเ	Sheet	1	of	2
		ddress	2				
2. Plant	Farley Nuclear Plan			Unit		TWO	
Name							
	Highway 95 South						
	Columbia, Alabama					SNC328562	
	A	ddress		Repair/Replace	ment Organi	zation P.O. No., Jo	b No., etc.
3. Work Per	rformed by Southern	Abuston Openstin	_	Time Code Combat			
J. WORKE		y / ES - Modificatio		Type Code Symbol Stamp		N/A	
	Company	Name	113	Authorization		77/7	
		144410		No.		N/A	
				Expiration			
	Farley	Nuciear Plant		Date		N/A	
		ddress					4
. Identifica	ition of System			P16 – Service	Water CL	ASS 3 ru 2/8	1/12
5. (a) Applik	cable Construction C	eboc	*	Edition,	Add	enda,	Code Case
(b) Appli	cable Edition of Seci	ion XI Used for R	epair/Repta	cement Activity 2001 /	2003 Rau	2/8/12	
(c) Applic	cable Section XI Cod	e Case(s) <u>N/A</u>					
. Identifica	ation Of Components	INCH DOAIN	VALVE OOD	101/03000			
. Identifica	auon or component	: 3 INCH DIMIN	ANTAE (35)	10403090			
	T		National	× · · · · · · · · · · · · · · · · · · ·	1	Corrected,	ASME Code
Name of	Name of	Manufacturer	Board	Other	Year	Removed, or	Stamped
omponent	Manufacturer	Serial No.	No.	Identification	Bullt	Installed	(Yes or No)
	WFI NUCLEAR	HEAT #		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1
PIPET	PRODUCTS	5094ANR1	N/A	PO# SNA10019087	2009	INSTALLED	NO
3 INCH	BNL INDUSTRIES	S/N		Q2P16V0368B			
BALL VALVE	INC.	A081213-2-2	NA	PO# QP081178	2009	INSTALLED	YES
		, , ,					
	1				1		
			1 1				
			1 1			1	1
					<del>                                     </del>		1
		1			1	1	
				Mark and a second	1		1
		Ī			1		I
					1		
	]				1		
				7			
	1	]			ı	1	J.
					<del>                                     </del>	<del>                                     </del>	1
		1			1	1	
			1				<u> </u>
7. Descript	ton of Work PEPEr	RMED 3 MCH H	TAP FOR	HIGH CAPACITY DRAIN	UNG S W PE	ADER IN SO"-HRC-	211 LINIT 2
	BOX 2VB-2 "B" TRAI						
ANTAE	DONE THE W TOPO	IT ATT HE STOR	JAKI MIND	TOT CITCULOVAL			
R Test Cor	nducted:	Hydrostatic 🗍 I	Pnoumatic[	Nominal Operation I	Pressure Y	Exempt	
1981 001						oF	
				pa			
8. Test Cor			Priormatic 125		95	busseed	



9. Remar	Remarks Install 3 Inch High Capacity Drain to S.W. 30"-HBC-211 inside Unit 2 Valve Box 2VB-2 on "B" Trein per Applicable Manufacturer's Data Reports to be attached MDC SNC87221 and WO# SNC328562.  See PO# SNA10019087 for 3 inch pipet. See PO# CP081178 for 3 inch ball valve.										
	See WO# SNC318135 for fabrication of 3 inch drain valve assembly.										
344		4	CATE OF COMPLIANCE								
We certi Code, Section XI.	•	nts made in the report are o	repair or replacement	conforms to the rules of the ASME							
Type Code Symb Stamp	ol		N/A								
Certificate of Authorization No.		N/A	Expiration Date	N/A							
Signed	Owner o	r Owner's Designee, Title	Manages T	20/11							
		CERTIFICATE	OF INSERVICE INSPECTION	(							
or Province of	WORLLA	and employed by	HSB CT	nd Pressure Vessel Inspectors and the state							
Modela	, and st	ate that to the best of my	ner's Report during the period	er has performed examinations and taken ASME Code, Section XI.							
examinations and	corrective measur	es described in this Owner		nty, expressed or implied, concerning the re inspector nor his employer shall be liable nnected with this inspection.							
	(Marcha)	reducing the second	Commission 15564 4x								
•	Inspector's Sig	gnature	National Board	, State, Province and Endorsements							
Date	1/28/11										



1.	Owner		Southern Nuclear Operating Company Date September 07., 2011						
		40 Inverness Center	Name r Parkway						
		Birmingham, Alaban	na 35242						
		(An agent for Alabai		y	Sheet	1	of	2	
2.	Plant	• • • • • • • • • • • • • • • • • • • •	ddress		1 H _ 1A		TWO		
₽.	Plant	Farley Nuclear Plan	Name		Unit		TWO		
		Highway 95 South							
		Columbia, Alabama					SNC327764		
		A	vddress		Repair/Replace	ment Organi:	ration P.O. No., Jo	b No., etc.	
3.	Work Per	formed by Southern	Nuclear Operating	,	Type Code Symbol				
		Company	/ ES - Modification	18	Stamp		N/A		
			Name		Authorization		N/A		
					No. Expiration		IVA		
		Farley	Nuclear Plant		Date		N/A		
			ddress				4		
4.	identifica	tion of System			P16 - Service	Water CLA	55 3 Pan 2/8	12_	
5.	(a) Annile	obio Construction C	anda.		Edition 1	A alada	mala d	Code Case	
5.		able Construction C		meir/Ronle	Edition, 2001/	7-003 D. 3	enda,	_ Code Case	
	(c) Appile	able Section XI Cod	e Case(s) N/A	phant/mahie	politically Activity 2001/		15/12		
			, ,						
6.	Identifica	tion Of Components	: 3 INCH DRAIN \	ALVE Q2P	16V0367A				
				National			Corrected.	ASME Code	
N	ame of	Name of	Manufacturer	Board	Other	Year	Removed, or	Stamped	
Cor	nponent	Manufacturer	Serial No.	No.	Identification	Built	Installed	(Yes or No)	
	PIPET	WFI NUCLEAR PRODUCTS	HT.# 5094ANR1	N/A	PO# SNA10019087	2009	INSTALLED	NO	
_	INCH L VALVE	BNL INDUSTRIES INC.	A110509-1-2	N/A	Q2P16V0367A PO# QP110393	2011	INSTALLED	YES	
7.	Descripti	on of Work PERFO	DRMED 3 INCH HO	T TAP FOR	HIGH CAPACITY DRAIN	UNG S.W. HF	ADER IN 30"-HBC-	211 UNIT 2	
		OX 2VB-2 "A" TRAI							
8.									



9.	Remarks	The state of the s								
		Applicable Manufacturer's Data Reports to be attached MDC SNC87221 and WO# SNC327764.								
		See PO# SNA10019087 for 3 Inch pipet. S	See PO# QP110393 for 3 inch ball	valve.						
	-									
			TE OF COMPLIANCE							
Code, Se		t the statements made in the report are corr	rect and that this repair or replacement	conforms to the rules of the ASME						
Type Coo Stamp	de Symbol		N/A							
Certifical Authoriza		N/A	Expiration Date	N/A						
Signed	Ø	Owner or Owner's Designee, Title	Site Designate 11/2	<u> </u>						
		CERTIFICATE OF	FINSERVICE INSPECTION							
	i, the undersig	gned, holding a valid commission issued by	y the National Board of Boiler and	d Pressure Vessel inspectors and the state						
CT	have inspected	d the components described in this Owner	's Report during the period mowledge and belief, the Owner	r has performed examinations and taken						
examinat	tions and corre	nis certificate neither the inspector nor hi ective measures described in this Owner's i personal injury or property damage or a loss	Report. Furthermore, neither the	inspector nor his employer shall be liable						
	94	nspector's Signature	Commission s <u>//SA 64.87</u> National Board, S	27 A1N State, Province and Endorsements						
	Date U/SE	<u>'*</u>								



1.	Owner	Southern Nuclear O			Date	November 02, 2011			
		40 Inverness Cente Birmingham, Alabar (An agent for Alabar	na 35242 ma Power Compan	ny	Sheet	1	of	2	
2.	Plant	A Farley Nuclear Plan	ddress t		Unit		TWO		
			Name		4				
		Highway 95 South Columbia, Alabama	36310			P16 - WO#	SNC316233		
			ddress		Repair/Replac		zation P.O. No., Joi	b No., etc.	
3.	Work Per	formed by Southern	Nuclear Operating		Type Code Symbol Stamo	!	N/A		
		Company	Name	173	Authorization	-			
					No.		N/A		
		Farley	Nuclear Plant		Expiration Date		N/A		
		A	ddress				- //		
4.	Identifica	tion of System			P16 – Service	Water CLP	553 Ne-2/8/	12	
		able Construction C		•	Edition,	Adde	anda,*	Code Case	
				epsir/Repta	cement Activity 2001	2003 Ran ?	2/8/12		
1	(c) Applic	able Section XI Cod	e Case(s) <u>N/A</u>						
6.	Identifica	tion Of Companents	: FROM 8"-HBC-	28 TO 8"-HO	CC-355				
				National			Corrected,	ASME Code	
	ne of ponent	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Removed, or tostalled	Stamped (Yes or No)	
	IPE	ITT GRINNEL	HT# 29006	N/A	P16-HBC-28 FNP2-26	1974	REMOVED	NO	
	CH S.S. IPE	ZHEJIANG JIULI HI-TECH METALS CO. LTD	YX1001-079	N/A	P16 8"-HCC-355 PO# SNA10016432	2010	INSTALLED	NO	
	H C.S. IPE	INTERPIPE	46651	N/A	P16 8"-HBC-28 PO# SNA10016432	2011	INSTALLED	NO	
	150# F FLG.	WESTERN FORGE & FLANGE CO.	41515EVS	N/A	P16 HCC-355 PO# SNA10016432	2011	INSTALLED	NO	
	150# F 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	
Commonweal Property lies	STUDS	VULCAN THREADED PRODUCTS, ING.	10005750	N/A	PO# QP100749	2007	INSTALLED	NO	
BUTT	NCH ERFLY	HENRY PRATT CO.	1310915DD-1-1	N/A	<i>Q2P16V0802B</i> <i>PO#</i> SNA10016331	2011	INSTALLED	YES	
7.	<ol> <li>Description of Work Removed approximately 5'-9 1/4" of 8" CS Pipe and Replaced with New Steinless Steel and Carbon Steel Pipe along with adding a new 8" Steinless Steel Butterfly Valve Q2P16V0802B.</li> </ol>								
8.	8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Preseure X Exempt Other Pressure 100 psi Test Temp. 72 °F								



9. Remark	s Removed approximately 5'-9 1/4" of 8" (	CS Pipe and Replaced with New Stair	nless 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).							
		E OF COMPLIANCE							
	y that the statements made in the report are corr		orms to the rules of the ASME Code,						
Section XI.		repair or replacement							
Type Code Symbo Stamp	d .	N/A							
Certificate of	N/A	Expiration	<b>1</b> // <b>A</b>						
Authorization No.	IVA	Date	N/A						
Signed	Halast of Smith 5:21	Design Date 11/2/11							
	Owner or Owner's Designes, Title	Parador III							
	7.2	anages							
(		INVESTIGE MESTATION							
	CERTIFICATE OF	INSERVICE INSPECTION							
I, the und	fersigned, holding a valid commission issued by	the National Board of Boller and Pro							
or Province of	GEOLGIA and employed by	HSB CT	of HARTFORD CT						
have insp	pected the components described in this Owner		08/31/2011 10						
	es described in this Owner's Report in accordan								
	to described in and Otther & responsing about day	to marking requirements or mornom	2 0020, 00010117111						
	ng this certificate neither the inspector nor h								
	corrective measures described in this Owner's I								
in any manner for i	any personal injury or property damage or a loss	or any kind arising from or connect	ed with this inspection.						
	_	Commission							
7	Gray De	B NBIZGOZAIN, GA	690						
	inspector's Signature	National Board, State	, Province and Endorsements						
	/								
Date 11	02/2011								

1. Owner	SOUTHERN	NUCLEAR C		CO.	Date		10/19/11	
		Name ESS CENTER W., AL. 35242	PARKWAY		Sheet	1	of	2
2. Plant	JOSEPH M.	Addres	-	NT	Unit		FNP UNIT 2	
	7388 NORTI COLUMBIA,	<b>Name</b> H STATE HW AL. 36319	Y. 95				E21- SNC75200	(2090968806)
		Addres	8		Repair/Replace	ment Organi	zation P.O. No., Jo	b No., etc.
3. Work Per		OUTHERN NO PERATING C ODS		SIGN	Type Code Symbol Stamp		N/A	
			-me		Authorization No.	-	N/A	
	7388 NORT	ICLEAR PLAN H STATE HW COLUMBIA, A	Y. 95 L. 36319		Expiration Date		N/A	
4. Identifica	tion of Syster	Addres m		E21MOV810	(V265) CHQ PUMPS M	NIFLOW ISC	O ASME CLASS 2	
5. (a) Applic	able Constru	ction Code		t pump and	Edition,	Add	enda,	Code Case
(c) Applic	able Section	XI Code Case	e(6)		oment Activity 2001 ED			_
Name of Component	Name o		ufscturer orial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
BONNET ASSEMBLY	VELAN	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 1	171	N/A		1968	REMOVED	
BONNET	VELAN	y S-	112018-1	N/A	S/N18554	2011	INSTALLED	YES
LEAK OFF PIPE	VELAN	<i>'</i>		N/A	TRACE CODE 210H	2011	INSTALLED	NO
BONNET STUDS	VELAN	4	15A	N/A	TRACE # LL69 HT# 562414	2011	INSTALLED	NO
SONNET NUTS	VELAN	<b>'</b>	16A	N/A	TRACE # RH HT# G14771	2011	INSTALLED	NO
						a.2		
7. Descripti	on of Work	Replaced top	works asse	mbly bonnet.	studs and nuts leak off p	pina, stem, p	ecking, voke and or	erator

8.	Test Conducted:		nal Operating Pressure	Exempt[]
		FORM NIS-2 (	(Back)	
9.	Remarks	Applicable Menu	ufecturer's Data Reports to be	atlached
Code,	We certify that the st Section XI.	CERTIFICATE OF COntained in the report are correct and in repair		onforms to the rules of the ASME
	Code Symbol Stamp		N/A	
Certifi No.	icate of Authorization	N/A	Expiration Date	N/A
Signe	d Hale	Owner or Owner's Designer, Title Ma	in Date 11/28/	'11
correc	have inspected the control of the co	components described in this Owner's Report and state that to the best of my knowledged in this Owner's Report in accordance with the trifficate neither the inspector nor his employments described in this Owner's Report. It injury or property damage or a loss of any knowners.	tional Board of Boiler and Present during the period	performed examinations and taken Code, Section XI.  pressed or implied, concerning the actor nor his employer shall be liable is with this inspection.
	ibspe	ctor's Signature	mmission 8 /24 64-827 National Board, State	Province and Endorsements
	Date 11/28/4			

1.	Owner	SOUTHERI	NUCLEAR OF	PERATING CO.	Date		10/19/11		
			Name ESS CENTER I AM, AL. 35242	PARKWAY	Sheet	1	of	2	
2.	Plant	JOŞEPH M.	Address FARLEY NUC	EAR PLANT	Unit		FNP UNIT 2		
		Name 7388 NORTH STATE HWY: 95 COLUMBIA, AL. 36319			-	<b>€8</b> E21- SNC7520 <b>€</b> (209098880€			
			Address		Repair/Replac	ement Or	ganization P.O. No	., Job No., etc.	
3. Work Pe		formed by SOUTHERN NUCLEAR OPERATING CO/ SITE DESIGN MODS			Type Code Symbol Stamp	de Symbol N/A			
			Ne	Tie	Authorization No.	Minister	N/A N/A		
		7388 NORT	UCLEAR PLAN TH STATE HWY COLUMBIA, AL	. 95	Expiration Date				
4.	Identifica	ation of Syste	Address m		7 7 (V257) CHG PUMPS 1	TO REGE	N HX ASME CLASS	5.2	
б.		cable Constru		68 Draft pump and valve code	Edition,		Addenda,	Code Case	
			of Section XI L XI Code Case	sed for Repair/Replaces)	ement Activity 2001 El	D. 2003 AL			
6.	Identifica	tion Of Comp	onents No co	le data report received	K Burkett 11/10/11 /C	Engel	N.		

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 21QH	2011	INSTALLED	NO
BONNET STUDS	VELAN	15A	N/A	TRACE # LL69 HT# 562414	2011	INSTALLED	NO
BONNET NUTS	VELAN	16A	NA	TRACE # RH HT# G14771	2011	INSTALLED	NO
							ļ

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

	71				
8. Test Co	onducted:	Hydrostatic Pneumatic Other Pressure	Nominal Operating Pres psi Test Temp.	sure X	Exempt F
		FORM	NIS-2 (Back)		
9. Rem	earks	Applicab	le Manufacturer's Data Re	ports to I	be attached
	•	CEPTHFICATE tements made in the report see corre			_conforms to the rules of the ASME
Code, Section :	XI.		repair or replacement		
Type Code Syr	mbol Stamp		N/A		
Certificate of A No.	Authorization	N/A	Expirat Date	ion 	N/A
Signed	Lore	Dwner or Owner's Saugnee, Title	gn Harage Pate	11/2	e/n
		CERTIFICATE OF I	NSERVICE INSPECTION		
! #ba	da	20		lar and D	ressure Vessel inspectors and the stat
or Province of	SONEN	and employed by	186 CT		of MASTERSO CT
1/2/1/2	£, 81	mponents described in this Owner's nd state that to the best of my kno in this Owner's Report in accordance	owledge and belief, the	Owner fu	to taken to
By si axaminations e	igning this certif	licate neither the inspector nor his	employer makes any v eport. Furthermore, neith	varranty, ner the in:	expressed or implied, concerning the
and the second districts	Anapact	or's Signature	Commission 8 255 National	64 8 Board, S	(27 ATN tate, Province and Endorsements
Date	1 /20/N	<u>.</u>			



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

1.	Owner	SOUTHE	RN NUCLEAR OF	PERATING CO.	Date		10/19/11	
			Name RNESS CENTER I HAM, AL. 35242	PARKWAY	Sheet	1	of	2
_	<b></b> .	10050	Address					
2.	Plant	JOSEPH	M. FARLEY NUC	LEAR PLANT	Unit		FNP UNIT 2	***
			Name RTH STATE HWY IIA, AL. 36319	. 95			E21- SNC7	<b>KØ</b> 7520 <b>8-</b> (2090968806)
			Address		Repair/Replace	nent Organ	nization P.O. No	., Job No., etc.
3.	Work Pe	rformed by	SOUTHERN NU OPERATING CO MODS		Type Code Symbol Stamp		N/	A
			Na	me	Authorization No.		N	/A
			NUCLEAR PLANT RTH STATE HWY COLUMBIA, AL	. 95	Expiration Date		۸	VA.
			Address					
4.	identifica	ation of Sys	tem	Q2E21MOV8108	(V258) CHG PUMPS TO	REGEN H	IX ASME CLASS	52
5.	(a) Appli	cable Cons	truction Code	68 Draft pump and valve code	Edition,	Add	denda,	Code Case
			on of Section XI ( on XI Code Case)		ement Activity 2001 ED.	2003 AD		
6.	Identifica	ation Of Co	mponents No c	ode data report receiva	d K Burkett 11/10/11 A	(B. 1)	म	

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	NVA	U217804	1968	REMOVED	
BONNET	VELAN	S-112018-3	N/A	S/N18557	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, stude and nuts leak off piping, stem, packing, yoke and operator



8.	Test Conducted:		inal Operating Pressure	er Exempt			
		FORM NIS-2 (Back)					
9.	Remarks	Applicable Maz	nufacturer's Data Reports	to be attached			
Code,	We certify that the siz Section XI.	CERTIFICATE OF C stements made in the report are correct and rep.		conforms to the rules of the ASME			
	Code Symbol Stamp	N/A	N/A Expiration Date	N/A			
Signe	· Lote	Owner or Owner's Designee, Title	Le Design Pale 11	<u>                                      </u>			
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or Province of							
	Commission  Inspector's Signature  Date 1/26/11						

1.	Owner Southern Nuclear Operating Company     Name				Date	Ja	nuary 31, 2012		
		40 Inverness Ctr Pk	wy, Birmingham, A	I. 35242	Sheet	1	of	2	
2.	Plant	Joseph M. Farley N			Unit FNP Unit 2				
		7388 N. State Hwy		6319	WOR SNC 83	744 P	160 Duy 1-112		
		A	ddress				zation P.O. No., Joh	No., etc.	
3.	Work Per	formed by FNP Mai	ntenance Departme	ent	Type Code Symbol Stamp N/A Authorization No. N/A				
		7388 N. State Hwy	95, Columbia, Al.	36319	Expiration Date		N/A		
4.	identifica	tion of System		504 , - Code	Class 3				
5.	(a) Applic	able Construction C	ode Section II	1 15	971 Edition, Summ	er 1971 Adde	enda, N//	A Code Case	
	(b) Applic	able Edition of Sect	ion XI Used for Re	pair/Replac	cement Activity 2001 Ed			_	
	(c) Applic	able Section XI Cod	e Case(s)	N/A					
6.	Identifica	tion Of Components	•						
	me of	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
V	ALVE	HENRY PRATT	A-000864	N/A	FNP2-43	1974	REMOVED	YES	
V	ALVE	HENRY PRATT	737030DD-5	N/A	QP051001	2007	INSTALLED	YES	
STU	JDS (3)	UNK	UNK	N/A	UNK	UNK	REMOVED	NO	
ST	JDS (2)	NOVA	M35586	N/A	QP110243	2011	INSTALLED	NO	
ST	UD (1)	NOVA	59709	N/A	QP070499	2007	INSTALLED	NO	
7.	Descripti	on of Work <i>REPLA</i>	CED VALVE PER	WORK ORL	DER SNC83744				
	*								
8.	8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Exempt Other Pressure NOP psi Test Temp. NOT °F								



9.	Remarks							
		Applicable Manufacturer's Data Reports to be attached						
	Replaced valve and three studs pe	er WO# SNC83744. Transactio	n numbers for material used in this work are	9 1280105, 1041467, and				
	1357665.							
,	We certify that the statements mad	CERTIFICATE OF (	COMPLIANCE TO THE TOTAL FRONT CONFORMS	to the rules of the ASME				
Code, Sec	tion XI.		air or replacement					
Type Cod	le Symbol Stamp		N/A					
Certificate	e of Authorization No.	N/A	Expiration Date	N/A				
Signed	Ad Helin	FOR LEGISARD SMITH,	PWE-41/12 MNT MGR Date 2/3/12					
	Owner or Owner's Design	gnee, Title						
		CERTIFICATE OF INSER	IVICE INSPECTION					
or Province	ce of <u>Georgia</u> ar	nd employed by Ha	ational Board of Boiler and Pressure Ves	erford ct				
02./	08/20,2, and state that	t to the best of my knowled	rt during the period <u>02/03/</u> Ige and belief, the Owner has perform the requirements of the ASME Code, Se	ed examinations and taker				
examination	ons and corrective measures desc	ribed in this Owner's Report.	loyer makes any warranty, expressed Furthermore, neither the Inspector nor kind arising from or connected with thi	his employer shall be liable				
~	Inspector's Signature	Comn	National Board, State, Pro	∆ ∟Գ ը ovince and Endorsements				
Dat	02/08/2012							



1.	1. Owner Southern Nuclear Operating Company Name			Date	January 31, 2012				
		40 Inverness Ctr Pk	wy, Birmingham, A	1. 35242	Sheet	11	of	2	
2.	Plant	Joseph M. Farley N			Unit	FNP Unit 2			
	Name 7388 N. State Hwy 95, Columbia, Al. 36319		6319		WO# SN	NC74654			
	Address				Repair/Replacement Organization P.O. No., Job No., etc.				
3.	3. Work Performed by <u>FNP Maintenance Department</u> Name			ent	Type Code Symbol	Stamp	N/A		
		7388 N. State Hwy	95, Columbia, Al.	<u>36319</u>	Authorization No. N/A Expiration Date N/A				
<b>1</b> .	Identifica	tion of System	Iddress TPNS: 02F12Hi	001C - Code	e Class 3				
5.						No. Add		/A . O = d = . O = = =	
J.					89 Edition,				
	(c) Applic	sable Edition of Sect sable Section XI Cod	e Case(s)	pair/Replac <i>N/A</i>	ement Activity 2001 Ed	dition, 2003 Ad	idenda		
6.	Identifica	tion Of Components	i						
				National			Corrected,	ASME Code	
	ime of aponent	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Removed, or installed	Stamped (Yes or No)	
	COVER TE ASSY	AEROFIN	723137(HT)	N/A	QP980800	1998	REMOVED	YES	
	COVER TE ASSY	AEROFIN	060111	1994	QP050726	2006	INSTALLED	YES	
7.	Descripti	ion of Work REPLA	ACED END COVER	PLATE ASS	SEMBLY. THE EXISTING	PLATE WAS	WARPED.		
8.	8. Test Conducted: Hydrostatic X Pneumatic Nominal Operating Pressure X Exempt Other Pressure NOP psi Test Temp. NOT °F								

01/31/12 09:30:24 FNP-0-GMP-0.2

## Figure 1

9.	Remarks							
	VT-2 pech	Applicable Mai	nufacturer's Data Reports to be attached 6: 353752 (FNP-2-378-)	156.3) Rod Cody				
	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 co	oil per WO# SNC74654.						
		CERTIFICATE OF C	OMBI IANGE and Est					
Code, Sec		e in the report are correct and	that this <u>REPLACEMENT</u> conforms to ir or replacement	to the rules of the ASME				
Туре Сос	de Symbol Stamp		N/A					
Certificat	te of Authorization No.	N/A	Expiration Date	N/A				
Signed	aldlus	or loseward simith, who	T MGR Date 2/3/12					
<u></u>	Owner or Owner's Desig	jnee, Title	-					
		CERTIFICATE OF INSER	VICE INSPECTION					
	I, the undersigned, holding a valid	commission issued by the Nat	tional Board of Boiler and Pressure Vess	sel Inspectors and the state				
or Provin		nd employed byH	SB CT OF HAC	STATED CT				
02/0	and state that	t to the best of my knowledg	ge and belief, the Owner has performe the requirements of the ASME Code, Sec	ed examinations and taken				
l		•	•					
examinat	tions and corrective measures desc	cribed in this Owner's Report.	oyer makes any warranty, expressed of Furthermore, neither the Inspector nor kind arising from or connected with this	his employer shall be liable				
	Inspector's Signature	Comm	National Board, State, Pro	wince and Endorsements				
	/		Hauoliai Boalu, Guite, 110	VIIICE GITE ENGOISCITIONS				
Da	ite 02/08/2012							

11/16/11 16:14;44 FNP-0-GMP-0.2

## Figure 1

1.	Owner Southern Nuclear Operating Company Name			Date	November 16, 2011				
		40 Inverness Ctr Pk		1. 35242	Sheet	1	of _	2	
•	51		ddress						
2.	Plant	Joseph M. Farley N	uclear Plant (FNP) Name		Unit FNP Unit 2				
	7388 N. State Hwy 95, Columbia, Al. 36319			6319			SNC335890		
		A	Address		Repair/Replace	ement Organi	zation P.O. No., Job	No., etc.	
3.	Work Per	formed by FNP Mail	ntenance Departm	ent	Type Code Symbol	Stamp	N/A		
•			Name		Authorization No.		N/A		
		7388 N. State Hwy		36319	Expiration Date		N/A		
			ddress						
4.	Identification of System TPNS: Q2E21V130A, A Seal Water Inj Filter Outlel, - Code Class 2								
5.	(a) Applic	able Construction C	ode Section II	1, 19	971 Edition, Summ	er 1971 Add	enda, N/	4 Code Case	
		sable Section XI Cod			cement Activity 2001 Ed	ution, 2003 Ac	genga		
6.	Identifica	tion Of Components	•						
				National	· · · · · · · · · · · · · · · · · · ·	1	Corrected.	ASME Code	
	me of	Name of	Manufacturer	Board	Other	Year	Removed, or	Stamped	
Con	ponent	Manufacturer	Serial No.	No.	Identification	Built	Installed	(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	<b>2</b> P6222	N/A	7047-Q-62430	1973	REMOVED	NO	
2"	PIPE	SANDVICK	442617	N/A	QP990861	1998	INSTALLED	NO	
2" E	LBOW	APCO	UNK	N/A	UNK	1971	REMOVED	NO	
2" E	LBOW	MIDSOUTH	J25	N/A	QP110078	2011	INSTALLED	NO	
2" נ	J-BOLT	GRINNEL	FIG.137	N/A	QP1255	1986	REMOVED	NO	
2" נ	J-BOLT	ANVIL	FIG.137	NA	QP090576	2009	INSTALLED	NO	
7.	Descripti	on of Work Replac	ed valve and pipin	and replac	ed an associated u-bolt su	ipport.			
8.	8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other Pressure NOP psi Test Temp. NOT °F								

9.	Remarks	Applicable Manufacturer's Data Reports to be attached						
	Replaced valve and piping and	associated U-bolt support U-bolt sup	port consists of two u-bolts with nuts an	d 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# SNC33	35890. Transaction numbers for mate.	rials Include 1370573, 1370575, 13706	13, and 1376024.				
Code, Se	We certify that the statements motion XI.	CERTIFICATE OF COM nade in the report are correct and the repair	MPLIANCE Pジブリル at this <u>REPLACEMENT</u> conforms or replacement	to the rules of the ASME				
1 ''	de Symbol Stamp		N/A					
Certificat	te of Authorization No.	N/A	Expiration Date	N/A				
Signed	Owner or Owner's De	FOR LEONARD MITH, M	PULT MER Date 2/3/12					
	Owner 5 De	olgree, rate						
		CERTIFICATE OF INSERVICE	CE INSPECTION					
or Provin	have inspected the components	and employed by ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	nal Board of Boiler and Pressure Ves  of Houring the period OZ/03/2 and belief, the Owner has perform requirements of the ASME Code, Se	ed examinations and taker				
examinat	ions and corrective measures de	escribed in this Owner's Report. Fu	er makes any warranty, expressed urthermore, neither the Inspector nor nd arising from or connected with this	his employer shall be liable				
	Inspector's Signature	Commiss	National Board, State, Pro	90 ovince and Endorsements				
Da	te 02/07/2012							



2. Plant Joseph M. Farley Nuclear Plant (FNP) Unit Name 7388 N. State Hwy 95, Columbia, Al. 36319 Address Repair.  3. Work Performed by FNP Maintenance Department Name Authorization 7388 N. State Hwy 95, Columbia, Al. 36319 Address Address Identification of System TPNS: Q2E21V042C, 2C Accumulator LT930	Work Order: Replacement Organiz Symbol Stamp	FNP Unit 2 SNC935690 SNC ation P.O. No., Job	79337 2				
2. Plant Joseph M. Farley Nuclear Plant (FNP) Name 7388 N. State Hwy 95, Columbia, Al. 36319 Address  3. Work Performed by FNP Maintenance Department Name 7388 N. State Hwy 95, Columbia, Al. 36319 Address  4. Identification of System TPNS: Q2E21V042C, 2C Accumulator LT930  5. (a) Applicable Construction Code Section III, 1971 Edition, (b) Applicable Edition of Section XI Used for Repair/Replacement Activity (c) Applicable Section XI Code Case(s) N/A  6. Identification Of Components  Name of Component Name of Manufacturer Serial No. No. Identification 2" VALVE KEROTEST OK8-2 N/A FNP2-55 2" VALVE FLOWSERVE 76BKC N/A QP06054 2" PIPE APCO ECB-39 N/A 7047-Q-624 2" PIPE SANDVICK 512741 N/A QP07103 2" U-BOLT GRINNEL FIG.137 N/A QP1255	Work Order: Replacement Organiz Symbol Stamp	SN0335890 SNC ation P.O. No., Job	79337 4				
Address Repair.  3. Work Performed by FNP Maintenance Department Name Authorization of System TPNS: Q2E21V042C, 2C Accumulator LT930  5. (a) Applicable Construction Code Section III, 1971 Edition, (b) Applicable Edition of Section XI Used for Repair/Replacement Activity (c) Applicable Section XI Code Case(s) N/A  6. Identification Of Components  Name of Manufacturer Serial No. No. Identification Of Component Manufacturer Serial No. No. Identification Of Component Component Repoir No. Identification Of Component Serial No. No. Identification Of Component Component Component No. Identification Of Component Serial No. No. Identification Of Component C	Replacement Organiz Symbol Stamp  n No.	eation P.O. No., Job	19337 Pu				
3. Work Performed by FNP Maintenance Department Name Authorization 17388 N. State Hwy 95, Columbia, Al. 36319 Expiration 18 Address  3. Identification of System TPNS: Q2E21V042C, 2C Accumulator LT930  5. (a) Applicable Construction Code Section III, 1971 Edition, 1971 (b) Applicable Edition of Section XI Used for Repair/Replacement Activity (c) Applicable Section XI Code Case(s) N/A  6. Identification Of Components  Name of Manufacturer Serial No. No. Identification 2" VALVE KEROTEST OK8-2 N/A FNP2-55  2" VALVE FLOWSERVE 76BKC N/A QP06054  2" PIPE APCO ECB-39 N/A 7047-Q-624  2" PIPE SANDVICK 512741 N/A QP07103  2" U-BOLT GRINNEL FIG. 137 N/A QP1255	Replacement Organiz Symbol Stamp  n No.	eation P.O. No., Job	No., etc.				
Name Authorization of Address  Identification of System TPNS: Q2E21V042C, 2C Accumulator LT930  5. (a) Applicable Construction Code Section III, 1971 Edition,  (b) Applicable Edition of Section XI Used for Repair/Replacement Activity (c) Applicable Section XI Code Case(s) N/A  6. Identification Of Components  Name of Component Manufacturer Serial No. No. Identification 2" VALVE KEROTEST OK8-2 N/A FNP2-55  2" VALVE FLOWSERVE 76BKC N/A QP06054  2" PIPE APCO ECB-39 N/A 7047-Q-624  2" PIPE SANDVICK 512741 N/A QP07103  2" U-BOLT GRINNEL FIG.137 N/A QP1255	n No	N/A					
Address Identification of System  TPNS: Q2E21V042C, 2C Accumulator LT930  5. (a) Applicable Construction Code  Section III,  (b) Applicable Edition of Section XI Used for Repair/Replacement Activity (c) Applicable Section XI Code Case(s)  Name of Component  Name of Component  Name of Manufacturer  Serial No.  No.  Identificati  2" VALVE  KEROTEST  OK8-2  N/A  No.  No.  Identificati  Other Identificati  2" VALVE  FLOWSERVE  T6BKC  N/A  QP06054  2" PIPE  SANDVICK  512741  N/A  QP07103  2" U-BOLT  GRINNEL  FIG. 137  N/A  QP1255	ate	N/A					
Identification of System  TPNS: Q2E21V042C, 2C Accumulator LT930  5. (a) Applicable Construction Code  Section III,  (b) Applicable Edition of Section XI Used for Repair/Replacement Activity (c) Applicable Section XI Code Case(s)  Name of Components  Name of Manufacturer Serial No.  No.  No.  Identification  Other Serial No.  No.  Identification  Other Serial No.  No.  Identification  Other No.		Authorization No. N/A Expiration Date N/A					
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity (c) Applicable Section XI Code Case(s) N/A  6. Identification Of Components  Name of Name of Manufacturer Serial No. No. Identification 2" VALVE KEROTEST OK8-2 N/A FNP2-55  2" VALVE FLOWSERVE 76BKC N/A QP06054  2" PIPE APCO ECB-39 N/A 7047-Q-62-4  2" PIPE SANDVICK 512741 N/A QP07103  2" U-BOLT GRINNEL FIG. 137 N/A QP1255	Identification of System TPNS: Q2E21V042C, 2C Accumulator LT930 Lower Iso, - Code Class 2						
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity (c) Applicable Section XI Code Case(s) N/A  6. Identification Of Components  Name of Name of Manufacturer Serial No. No. Identification 2" VALVE KEROTEST OK8-2 N/A FNP2-55  2" VALVE FLOWSERVE 76BKC N/A QP06054  2" PIPE APCO ECB-39 N/A 7047-Q-62-4  2" PIPE SANDVICK 512741 N/A QP07103  2" U-BOLT GRINNEL FIG. 137 N/A QP1255	(a) Applicable Construction Code Section III, 1971 Edition, Summer 1971 Addenda, N/A Code Case						
(c) Applicable Section XI Code Case(s) N/A  6. Identification Of Components  Name of Component Manufacturer Serial No. No. Identification  2" VALVE KEROTEST OK8-2 N/A FNP2-55  2" VALVE FLOWSERVE 76BKC N/A QP06054  2" PIPE APCO ECB-39 N/A 7047-Q-624  2" PIPE SANDVICK 512741 N/A QP07103  2" U-BOLT GRINNEL FIG. 137 N/A QP1255			_				
Name of Component         Name of Manufacturer         Manufacturer Serial No.         National Board No.         Other Identification           2" VALVE         KEROTEST         OK8-2         N/A         FNP2-55           2" VALVE         FLOWSERVE         76BKC         N/A         QP06054           2" PIPE         APCO         ECB-39         N/A         7047-Q-624           2" PIPE         SANDVICK         512741         N/A         QP07103           2" U-BOLT         GRINNEL         FIG. 137         N/A         QP1255	EGG / EGG/AG	901100					
Name of Component         Name of Manufacturer         Manufacturer Serial No.         Board No.         Other Identification           2" VALVE         KEROTEST         OK8-2         N/A         FNP2-55           2" VALVE         FLOWSERVE         76BKC         N/A         QP06054           2" PIPE         APCO         ECB-39         N/A         7047-Q-624           2" PIPE         SANDVICK         512741         N/A         QP07103           2" U-BOLT         GRINNEL         FIG. 137         N/A         QP1255							
2" VALVE       FLOWSERVE       76BKC       N/A       QP06054         2" PIPE       APCO       ECB-39       N/A       7047-Q-624         2" PIPE       SANDVICK       512741       N/A       QP07103         2" U-BOLT       GRINNEL       FIG.137       N/A       QP1255	Year Dn Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)				
2" PIPE         APCO         ECB-39         N/A         7047-Q-624           2" PIPE         SANDVICK         512741         N/A         QP07103           2" U-BOLT         GRINNEL         FIG.137         N/A         QP1255	1975	REMOVED	YES				
2" PIPE         SANDVICK         512741         N/A         QP07103           2" U-BOLT         GRINNEL         FIG. 137         N/A         QP1255	5 2007	INSTALLED	YES				
2" U-BOLT GRINNEL FIG. 137 N/A QP1255	30 1981	REMOVED	NO				
	2005	INSTALLED	NO				
2" U-BOLT ANVIL FIG. 137 N/A QP09057	1981	REMOVED	NO				
	6 200 <b>9</b>	INSTALLED	NO				
7. Description of Work Replaced valve and piping and replaced an associated	u-halt sugport						
8. Test Conducted: Hydrostatic Pneumatic Nominal Op	a son support.	Exempt					

01/31/12 09:46:07 FNP-0-GMP-0.2

## Figure 1

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# SNG3358	work performed on WO# SNG335899, Transaction numbers for materials Include 1370573, 1370575, 1370613, and 1376024.							
Code, Se	We certify that the statements mad ction XI.	CERTIFICATE OF COME in the report are correct and the repair	MPLIANCE at this <u>REPLACEMENT</u> confo	rms to the rules of the ASME					
Type Cod	de Symbol Stamp		N/A						
Certificat	te of Authorization No.	N/A	Expiration Date	N/A					
Signed	Owner or Owner's Desig	FOR MONARD SMITH,	MNT MGTE 2/3/12						
		CERTIFICATE OF INSERVICE	CE INSPECTION						
or Provin	I, the undersigned, holding a valid ce of CARACIA are have inspected the components de COT/2012, and state that e measures described in this Owner	nd employed by \(\frac{1\lfrac{1}{2}}{2}\) escribed in this Owner's Report det to the best of my knowledge	S CT of luring the period OF /B 3 and belief, the Owner has perf	HAGT FORD CT					
examinat	By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the xeminations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable 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	Commiss	12603 AIR (JA	, Province and Endorsements					
Da	oz/07/2012								

02/08/12 11:16:01 FNP-0-GMP-0.2

## Figure 1

1.	Owner Southern Nuclear Operating Company     Name			· · · · · · · · · · · · · · · · · · ·	Date	Fe	abruary 8, 2012			
		40 Inverness Ctr Pk	wy, Blmingham, A	ii. 35242	Sheet	1	of			
2.	Plant	Joseph M. Farley N	ddress uclear Plant (FNP)		Unit		FNP- UNIT 2			
			Name							
		7388 N. Sale Hwy 9	<i>lo, Columbia, Al. 38</i> Address	5319	Repair/Replac	WO# SNC7	2520 - E21 zation P.O. No., Jol	b No., etc.		
3.	Work Per	formed by FNP Mai	ntenance Departm	ent	Type Code Symbol		N/A			
			Name		Stamp Authorization No.		N/A			
	7388 N. Sate Hwy 95, Columbia, At. 36319				Expiration Date		N/A			
			ddress				***	<del>.</del>		
4.	Identifica	tion of System			Q2E21P002C - COL	DE CLASS 2				
<ol> <li>5.</li> <li>6.</li> </ol>	(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, 2003 Addenda (c) Applicable Section XI Code Case(s) N/A									
				National			Corrected,	ASME Code		
	ame of nponent	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Removed, or Installed	Stamped (Yes or No)		
OUT	ER SEAL INBOARD	INGERSOL-RAND	47195-AA	N/A	QP960658	1996	REMOVED	NO		
	ER SEAL -OUTBRD	PACIFIC PUMPS	2E299	N/A	QP3929	1989	REMOVED	NO		
SG-	ER SEAL INBOARD	FLOWSERVE	RLSA16521	N/A	QP100782	2011	INSTALLED	NO		
	ER SEAL -OUTBRD	FLOWSERVE	RLSA16519	N/A	QP100782	2011	INSTALLED	NO		
_		<u> </u>								
						<del>                                     </del>		ļ		
							1			
7.	Descripti	on of Work <u>REPLA</u>	CE MECHANICAL	SEALS ON	2C CHG PMP					
					7					
8.	Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other Pressure psi Test Temp.									

02/08/12 11:16:01 FNP-0-GMP-0.2

## Figure 1

<ol><li>Remarks</li></ol>	
	Applicable Manufacturer's Data Reports to be attached
	2C Chg Pump seals were overstressed when the pumpsuction piping was overpressurized. W0# SNC72520 replaced
	The pump seals and outer seal housing. Transaction numbers for the housing are 1551402 and 1551322.
444	The new seals are approved by ED C090092701.
	CERTIFICATE OF COMPLIANCE at 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 N/A Date
Signed AND MAINT M	R.Vaught fi L. Smitg Date 2-8-/7
	CERTIFICATE OF INSERVICE INSPECTION
or Province of <u>GEN</u> have inspecte <u>02/08/2012</u>	gned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel_Inspectors and the state
examinations and corr	his certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the ective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Commission s 12603 A IN  Inspector's Signature National Board, State, Province and Endorsements
Date Oz O	8/2012

02/01/12 14:09:45 FNP-0-GMP-0.2

1.	Owner	Southern Nuclear C			Date	Fe	burary 2, 2012	
		40 Inverness Ctr Pt	Name kwy, Birmingham, A	1 35242	Sheet	1	of	2
2.	Plant		Address					
2.	Piam	Joseph M. Farley N	Name		Unit		FNP Unit 2	
		7388 N. State Hwy		6319			lo : SNC79194	
		•	Address		Repair/Replace	ment Organi	zation P.O. No., Jo	b No., etc.
3.	Work Per	formed by FNP Ma.		ent	Type Code Symbol	Stamp	N/A	
		7388 N. State Hun	Name y 95, Columbia, Al.	36310	Authorization No. Expiration Date		N/A	
			Address	30013	Expiration Date		IVA	
4.	Identifica	tion of System	TPNS #: Q2P16V	081, P16- S	Service Water System C	LASS 3	47/2	
5.	(a) Applic	able Construction (	Code See Rema	rks	Edition, N/A	Adde	enda, N/A	Code Case
								_
	(c) Applic	able Section XI Cod	ie Case(s)	<i>N/A</i>	cement Activity 2001 Ec	inion, 2003 Ad	genda	
6.		tion Of Components						
· ·	TO STITLING	mon or components	•					
N		Name of	Manustantuman	National	04		Corrected,	ASME Code
	me of	Name of Manufacturer	Manufacturer Serial No.	Board No.	Other Identification	Year Built	Removed, or Installed	Stamped (Yes or No)
	GATE /E, DISC	ENERTECH	10359 (VALVE)	N/A	DISK SERIAL NO IFG-003	1996	REMOVED	YES (VALVE)
-	GATE /E, DISC	ENERTECH	16102 (VALVE)	N/A	N/A	2006	INSTALLED	NO
		***************************************						
7.	Descripti	on of Work <u>Used b</u>	ody from existing va	alve and rep	laced the original disc with	new disc.		
				, <u> </u>				
8.	Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other Pressure psi Test Temp. °F							

9.	Remarks					
		Valva danianad oar		ible Manufacturer's Data Re 1974 Edition, Summer 1975		
		valve designed per			Addenda	
		ED: C061049701	5h	1079194 21912		A
	VT-Z	performed	unter	WD: SNC 86309	FNP-Z-ST	P-156.7, Dans
						24
12/-				E OF COMPLIANCE		Abo mulas ad Aba ACME
Code, Section		statements made in the	report are corre	ect and that this <u>Replacen</u> repair or re		the rules of the ASME
Type Code S	Symbol Stamp			N/A		
Certificate o	f Authorization N	No.	N/A	Expira	tion Date	N/A
Signed	Owner Owner	or Owner's Designee, T	NT Syppoc	+ Suft. Date	2/8/12_	
		CE	RTIFICATE OF	INSERVICE INSPECTION		
		h al di		aha Aladawal Daned of Daile	and Dunney Mann	
	ne undersigned, of CasenCase			the National Board of Boile		PAD CT
hav	e inspected the	components described	in this Owner's	Report during the period_	02/03/2012	to
				nowledge and belief, the ( se with the requirements of		
		•		•	•	
examination	s and corrective	measures described in	this Owner's F	s employer makes any wa leport. Furthermore, neith of any kind arising from or	er the inspector nor h	s employer shall be liable
	100	say Som		Commissions 126	3 AIN GAL	nce and Endorsements
1	Inspector	r's Signature		Natio	nal Board, State, Provi	nce and Endorsements
Da	02/08/20	112				

#### 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 C	perating Co.	. 0	)ate:	Oct	ober 17, 2011	
	40 la varance 6	Name	AL 05040	~			_	
	40 Inverness C	Center Parkway; Birm Address	ingham, AL 35242	. S	heet: 1	of		
2	Plant: Jos	<i>Address</i> seph M. Farley Nucles	ar Plant (FNP)		Init:		FNP Unit 2	
۷.	114111.	Name	ar ranc (rivir)				FIAL OUIT 2	
	7388 North	State Hwy 95; Colun	nbia, AL 36319		Work Order No.:	E13 - S	NC82701	
		Address		-	Repair/Replaceme	ent Orga	nization PO No,	lob No, etc.
3.	Work Performed By:	FNP Mainter	nance Department	т	ype Code Symbol	Stamp:	N/A	4
		Name						
	7388 North	State Hwy 95; Colum	nbia, AL 36319	. Α	uthorization No.:		N/A	
		Address			,			
				Е	xpiration Date:		N/A	
4,	Identification of System	m: TPN	NS: Q2E13SNUBBCSR28	2B CONT	TAINMENT SPRAY	SYSTE	M, ASME CLASS	3 2
_	(a) Applicable Constru	uction Code: C	ee Remarks . N/A	Edition	N/A Ad	ldondo	NI/A	Cada Casa
Э.	(a) Applicable Constit	iction Code	Year	Edition,	IVA AU	ldenda,	N/A	Code Case
	(b) Applicable Edition	of Section XI Used for	or Repair/Replacement Ac	tivity:	2001 Ad	ldenda:	200	3
	(c) Applicable Section	XI Code Case(s):			N/A			
	(-, - , -, -, -, -, -, -, -, -, -, -, -,	2020 2230(0),						
6	Identification of Comp	onents:						
		Name		National	Other		Corrected,	ASME Code
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board	Other Identification	Year Built	Removed, or	Stamped
				No.			Installed	(Yes or No)
_	Hydraulic Snubber	ITT GRINNELL	2CS-R282	N/A	FNP-2-29	1977	Removed	NO
-	11	ANDE	00.400	24/2	00440054	5044	44-11-4	
-	Hydraulic Snubber	ANVIL	38469	N/A	QP110051	2011	Installed	NO
-		ļ						
-								
-		<del> </del>						
-								
7.	Description of Work:	Snubbe	r 2CSR-282B was replace	ed as a sch	heduled upgrade I	Ref: Trar	saction # 10568	47
8.	Tests Conducted:	Hydrostatic 🔲	Pneumatic	Nominal (	Operating Pressure	, 0	Exempt	V
		Other	Pressure:	р	si Test Ten	np.:	•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.

Remarks			
	Applicable Manufacturer's Data Reports to be	e attached	
Supports Designed to AISC-1969 and welde	d to AWS D1 1-86.		
Reference equivalency determination C0920	50401		
Ref: Transaction # 1056847			
VT-3 Exam Performed after Installation			
SHC82701 99917			manusi de la contraction de la
	OFDISIONES OF COMPLIANS		
	CERTIFICATE OF COMPLIANC	Ducal =	
I certify that the statements made in the re	/	acement 2)1(12 ns to the requirements of the A	ASME Code, Section
Type Code Symbol Stamp:	thistophistophistophistophistophistophistophistophistophistophistophistophistophistophistophistophistophistophis	N/A	
Certificate of Authorization No.: Signed: A Lehro-	N/A Leonard Smith , Maintenand	Expiration Date:	N/A
Owner or	Owner's Designee, Title		211-
I, the undersigned, holding a valid commis	CERTIFICATE OF INSERVICE INSPENSION ISSUED by the National Board of		snectors and the
	and employed by $\square < \nearrow <$	Dollor Kild i roddard Voddor III	appedioro dela ino
of HARTSOND C		have inspected the compo	nents described in th
Owner's Report during the period	02/03/2012 to	02/07/2012	, and state that t
the best of my knowledge and belief, the Ow	ner has performed examinations and	taken corrective measures de	scribed in this
Owner's Report in accordance with the requi	rements of the ASME Code, Section	XI.	
By signing this certificate neither the Inspe	notes per bio employer makes any wa	eraph, avaraged or implied a	encoming the
examinations and corrective measures desc			
liable in any manner for any personal injury of	or property damage or a loss of any k	ind arising from or connected	with this inspection.
Valory Den	Commissions: \	2603 AIN GA690	
Inspector's Signature		National Board, State, Province	e, 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 C	perating Co.	Da	ate:	Oct	ober 12, 2011	
		Name						
	40 Inverness C	enter Parkway; Birm	ingham, AL 35242	SI	neet: 1	of	2	
		Address						
2	Plant Jos	eph M. Farley Nuclea	ar Plant (FNP)	. Uı	nit:		FNP Unit 2	
		Name						
	7388 North	State Hwy 95; Colun	nbia, AL 36319		Work Order No.			
		Address			-	-	nization PO No, .	Job No, etc.
3.	Work Performed By:	FNP Mainter	nance Department	. Ty	pe Code Symbo	ol Stamp:	N//	<u> </u>
		Name						
	7388 North	State Hwy 95; Colun	nbia, AL 36319	. Αι	uthorization No.:		N/A	
		Address						
				E	xpiration Date:	***************************************	N/A	
4.	Identification of System	m: TPNS: Q2	2P17SNUBBCCWR322B	COMPON	ENT COOLING	WATER S	YSTEM, ASME	CLASS 3
e	(a) Analizable Constru	estion Code: C	an Damarka N/A	F" ellel e e	NI/A	Addondo	AI/A	Cada Caaa
Э.	(a) Applicable Constru	ction code. S		Edition,	N/A	Addenda,	N/A	Code Case
	(b) Applicable Edition	of Castian VI Lland to	<i>Year</i> or Repair/Replacement Ac	their c	2001	Addenda:	200	13
	(b) Applicable Edition	or Section vi Osed ic	л пераплеріасепіені Ас	uvity.	Year	Audenda.		
	(c) Applicable Section	Yl Code Caselel:			N/A			
	(c) Applicable Section	Al Code Case(s).			147			
6	Identification of Comp	onents:						
No. of Street, or other party of the		N		National	0.11		Corrected,	ASME Code
-	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board	Other Identification	Year Built	Removed, or	Stamped
		Manuacibiei		No.	identification	Duit	installed	(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
					Watter St.			
7.	Description of Work:	Snubber	CCW-R322B was replace	ed as a sch	neduled upgrade	Ref: Trai	nsaction # 10568	343
8.	Tests Conducted:	Hydrostatic	Pneumatic	Nominal C	Operating Press	ure 🔲	Exempt	$\square$
		Other	Pressure:	ps	si Test T	emp.:	°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.

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						
5NC82699 MAIN							
	CERTIFICATE OF COMPLIANCE						
	REPLACEMENT 2/1/2						
	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: A Lyelus Leonard Smith, Maintenance Manager Date: 2/3/12						
	Signed: Leonard Smith , Maintenance Manager Date: 2/3//2  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 ( and employed by LLZ CT						
	of HARTEURD 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.						
~							
	Commissions: 12603AIN CA690						
	Unspector's Signature National Board, State, Province, and Endorsements						
	Date: 02/08/2012						
	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 C	Operating Co.	D	ate:	Oct	tober 18, 2011	
	_		Name		•				
	40 ln	verness C	enter Parkway; Birm	ingham, AL 35242	. S	heet: 1	of	2	
			Address						
2.	Plant:	Jos	eph M. Farley Nuclea	ar Plant (FNP)	. "	nit:		FNP Unit 2	
			Name						
	73	388 North	State Hwy 95; Colum	nbia, AL 36319		Work Order No.:			
_	Made Daria	and Dan	Address	December of	7.		_	nization PO No.	
3.	Work Perfor	med by:		nance Department	. ''	ype Code Symbo	Stamp:	N/	<del></del>
	7:	388 North	Name State Hwy 95; Colum	nbia, AL 36319	Α	uthorization No.:		N/A	
			Address		•			· ·	
					E	xpiration Date:		N/A	
4.	Identification	n of Syster	n: TPNS: Q	2P17SNUBBCCWH58B	COMPONE	ENT COOLING W	/ATER S	YSTEM, ASME C	LASS 3
5	(a) Applicab	le Constru	ction Code: S	ee Remarks N/A	Edition,	N/A A	ddenda,	N/A	Code Case
				Year	. –				•
	(b) Applicab	e Edition	of Section XI Used fo	or Repair/Replacement Ad	tivity:	2001 A	ddenda:	200	3
						Year			
	(c) Applicable	le Section	XI Code Case(s):			N/A			
6.	Identification	of Compo	onents:						
			Nome of		National	Other	Vaca	Corrected,	ASME Code
1	Name of Com	ponent	Name of Manufacturer	Manufacturer Serial No.	Board	Other Identification	Year Built	Removed, or	Stamped
			Manadatara		No.	raemination,	Juni	Installed	(Yes or No)
	Hydraulic Sr	nubber	ITT GRINNELL	14408	N/A	36803	1985	Removed	NO
	Hydraulic Sr	nubber	ANVIL	38466	N/A	QP110051	2011	Installed	NO
							<u> </u>		
	Adapter P	late	ANVIL	38466	N/A	QP110051	2011	Installed	NO
_		-					+		
							<del> </del>		
		the management					1		
							-		
_									
7.	Description	of Work:	Snubber 2CCV	W-H58B was replaced as	a schedul	ed upgrade Ref	Transac	tion # 1058687,	1058685
8.	Tests Condu	ucted:	Hydrostatic	Pneumatic	Nominal (	Operating Pressu	e 🔲	Exempt	☑
			Other	Pressure:	ps	si Test Te	mp.:	°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.

). Re	marks						
	Applicable Manufacturer's Dala Reports to be attached						
Su	apports Designed to AISC-1969 and welded to AWS D1.1-86.						
Re	eference equivalency determination C091933501						
Ae	ef: Transaction # 1058687 , 1058685						
VT	-3 Exam Performed after Installation						
_	SNC82690 2/4/4						
	CERTIFICATE OF COMPLIANCE						
ı	I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section X						
Тур	pe Code Symbol Stamp: N/A						
Се	onlificate of Authorization No.: N/A Expiration Date: N/A						
C:-	1/2/2/2						
Sig	gned: Leonard Smith , Maintenance Manager Date: 2/3/12  Owner or Owner's Designee, Title						
-							
	CERTIFICATE OF INSERVICE INSPECTION						
1	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the						
	ate or Province of Gkangua and employed by HSB CT						
of	HART FORD CT have inspected the components described in this						
	wher's Report during the period $62/63/2012$ to $62/68/2012$ , 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.						
Ovi	with a report in accordance with the requirements of the Advice Code, decitor At.						
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the						
	aminations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be ble in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.						
-							
-	Commissions: 12603AIN GA690						
	Inspector's Signature National Board, State, Province, and Endorsements						
Da	tte: 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 O	perating Co	D	ale:	Oct	ober 12, 2011	
			Name		-				
	40	Inverness Co	enter Parkway; Birmi	ngham, AL 35242	S	heet: 1	of	2	
			Address		-				
2.	Plant:	Jose	eph M. Farley Nuclea	r Plant (FNP)	U	init:		FNP Unit 2	
			Name		-				
		7388 North	State Hwy 95; Colum	bia, AL 36319		Work Order No.	.: E11-SN	C82723	
			Address			Repair/Replace	ement Orga	nization PO No,	Job No, etc.
3.	Work Perf	ormed By:	FNP Mainter	ance Department	T	ype Code Symb	ol Stamp:	N/A	A
			Name		-				
		7388 North	State Hwy 95; Colum	bia, AL 36319	Α	uthorization No.	:	N/A	
			Address		-		-		
					E	xpiration Date:		N/A	
4.	Identificati	on of System	n: <u>T</u>	PNS: Q2E11SNUBBSIR	123 SAFE	TY INJECTION	SYSTEM,	ASME CLASS 2	
5.	(a) Applica	able Constru	ction Code: Se	ee Remarks , N/A	Edition,	N/A	Addenda,	N/A	Code Case
				Year					•
	(b) Applica	able Edition o	of Section XI Used fo	r Repair/Replacement A	ctivity:	2001	Addenda:	200	3
	(c) Applica	able Section	XI Code Case(s):			Year N/A			
	(c) Applica	able Section	Al Code Casc(s).						
6.	Identificati	ion of Compo	onents:						
					_	-			
	Name of Co	mananat	Name of	Manufacturer Serial No.	National Board	Other	Year	Corrected, Removed, or	ASME Code
	Name of Co	omponent	Manufacturer	Manuacturer Senai No.	No.	Identification	Built	Installed	Stamped (Yes or No)
-	Hydraulic	Snubber	ITT GRINNELL	2SI-R123	N/A	FNP-222	1 1977	Removed	l NO
	Trydradile	01100001	TIT OF MINICELL	20:11120	13073	1111222	1377	1101110464	110
	Hydraulic	Soubber	ANVIL	38274	N/A	QP101007	2009	Installed	NO
-	Tiyaradilo	Oliobbei	711116	00274	1 14/1	<u> </u>	2000	motanou	
-					l				
-		<del></del>			<del> </del>				
						<del> </del>			<del> </del>
					<del> </del>	<u> </u>	_		
				M			_		
-					<del>                                     </del>	<b>-</b>			
-					1				
7	Descriptio	n of Work	Sniibhe	or 2SI-R123 was replace	d as a sob	eduled ungrade	Ref: Trans	saction # 12440	69
1.	Describito	TI OI VYOIK.	Silubbe	a 201-11125 was replace	ad a scin				
8.	Tests Con	iducted.	Hydrostatic	Pneumatic	Nominal (	Operating Press	nte 🔲	Exempt	abla
			Other	Pressure:	p	si Test 7	Гетр.:	°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.

Remarks						
	Applicable Manufacturar's Data Rep	orts 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						
SNC82723 male						
	CERTIFICATE OF COMP	PLIANCE				
		a				
I certify that the statements made in the re		CONFORMS to the requirements of the A	SME Code, Section			
•	•					
Type Code Symbol Stamp:		N/A				
Certificate of Authorization No.:	N/A	Expiration Date:	N/A			
MALORIVALLE	2 (1) 14	·	9 17			
Signed: K. Vaught	fur Leonard Smith, Main Owner's Designee, Title	tenance Manager Date:	3-12			
/ Office of	Owner's Designed, Tale					
	CERTIFICATE OF INSERVICE		- Alex			
I, the undersigned, holding a valid commis State or Province of Commission and a	· ·	pard of Boiler and Pressure vessering	spectors and the			
of HADTERD CT	and employed by HS	have inspected the compor	nents described in th			
Owner's Report during the period	2/03/2012	to 02/07/2012	, and state that t			
the best of my knowledge and belief, the Ow			<del></del>			
Owner's Report in accordance with the require	rements of the ASME Code, S	ection XI.				
By signing this certificate neither the inspe- examinations and corrective measures descri-						
liable in any manner for any personal injury of						
Violence Server	Commission	5: 12603 AIN GA690				
Inspector's Signature	Marie Control	National Board, State, Province	e, and Endorsements			
Date: 62/07/2012						

#### 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 C	perating Co.	Da	ate:	Oct	ober 14, 2011	
	40 lavamena (	Name	inghom Al 25040	CI	nosti 1		0	
	40 mvemess C	Center Parkway; Birmi Address	ingham, AL 35242	. J	neet: 1	of	2	
2.	Plant: Jos	seph M. Farley Nuclea	ar Plant (FNP)	Uı	nit:	1	FNP Unit 2	
		Name						
	7388 North	State Hwy 95; Colum	nbla, AL 36319	,	Work Order No.:	E21-SN	IC82735	
		Address		_	Repair/Replacen	nent Orga	nization PO No, .	lob No, etc.
3.	Work Performed By:	FNP Mainter	nance Department	Ту	pe Code Symbol	Stamp:	N/A	<u> </u>
		Name		_				
	7388 North	State Hwy 95; Colum	nbia, AL 36319	A	uthorization No.:		N/A	
		Address		E	piration Date:		N/A	
4	Identification of Syste	m: TPNS#	Q2E21SNUBBSS12716	CHEMICA	AL VOLUME CON	NTROL S'	YSTEM, ASME C	lass 2
5	(a) Applicable Constru	uction Code: S	ee Remarks , N/A	Edition,	N/A A	ddenda,	N/A	Code Case
		-	Year					•
	(b) Applicable Edition	of Section XI Used for	or Repair/Replacement Ac	tivity		ddenda:	200	3
	4-3-1	W 0 1 0 . ( )			Year			
	(c) Applicable Section	XI Code Case(s):			N/A			
6	Identification of Comp	onents:						
-		Name		National	011	V	Corrected,	ASME Code
1	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board	Other Identification	Year Built	Removed, or	Stamped
	· · · · · · · · · · · · · · · · · · ·			No.			Installed	(Yes or No)
	Mechanical Snubber	Pacific-Scientific	SS-12716	N/A	FNP-2-29	1977	Removed	NO
		ļ						
	Hydraullic Snubber	Lisega	30900372/025	N/A	QP100730	2009	Installed	NO
_								
-						1		
_		<u> </u>			<u> </u>	1		
		7-1111111111111111111111111111111111111				<del>                                     </del>		
	77-10 W.					1		
7.	Description of Work:	Snubbe	er SS-12716 was replaced	as a sche	duled upgrade	Ref: Trans	saction # 11032	05
8.	Tests Conducted:	Hydrostatic	Pneumatic	Nominal C	Operating Pressu	re 🔲	Exempt	
		Other	Pressure:	ps	si Test Te	mp.:	°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.

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							
/T-3 Exam Performed after installation							
SHC82735 Malir							
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 2							
Type Code Symbol Stamp: N/A							
Certificate of Authorization No.: N/A Expiration Date: N/A							
Signed: Will 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							
have inspected the components described in this							
Owner's Report during the period 07/03/2012 to 07/2012, and state that to be 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							
able in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.							
Commissions: 12603AIN CAL90							
Inspector's Signature National Board, State, Province, and Endorsements							
Date: 02/07/2012							

	Southern N  1. Owner		Sguthern Nuclear Operating Co.		o.	Date	9/22/11		
	40 Inverness Center 35242	Name r Parkway; Bìrming	nham, Al.	Sheet	•	of	2		
2. Plant	Address Joseph M. Farley Nuclear Plant (FNP)			Unit		FNP Unit 2			
	7388 North State Hy	Name vy. 95; Columbia, ,	AI	Mayor (c) condition to control and control	Work Order	NO: SNC75876			
	36319 Address			Repair/Replacen	nent Organi	zation P.O. No., Jo	b No., etc.		
3. Work Pe	Work Performed by Williams Power		Type Code Symbol Stamp						
	Are committee and an area of the second	Name	and the second secondary	Authorization	# (2W/19/10 - 19/4)	N/A			
	Section 2 and the section of the section 2 and t	tre Parkway, Suite r, Ga. 30084 ddress	1240	No. Expiration Date		N/A	N/A		
i. Identific	ation Of Components		Mational	-		Corrected	ASME Code		
Name of	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	Stamped (Yes or No		
AT ALTER DE DE LOTE LET	I I I I I I I I I I I I I I I I I I I	The state of the s	Annual Control of the	THE RESERVE OF THE PARTY OF THE	Mana	mountai	1166 01 116		
DIAPHRAGN	I GRINNELL	73-2761-4-48	NA	FNP2-115	1974	REMOVED	YES		
The second second second second	T GRINNELL	73-2761-4-48 2'GCC-22	NVA NVA	FNP2-26	1974	REMOVED	NO		
DIAPHRAGN VALVE 2" PIPE DIAPHRAGN	nT GRINNELL						April 10 March 10 Mar		
DIAPHRAGN VALVE 2" PIPE	nT GRINNELL	2"GCC-22	NVA	FNP2-26	1974	REMOVED	NO		
2° PIPE DIAPHRAGI VALVE	ITT GRINNELL  I BNL INDUSTRIES	2"GCC-22 A100608-1-1	N/A N/A	FNP2-26 QP100602	1974	REMOVED	NO		

9.	Remarks	Reconciliation of component difference is per MDC 209167.	4600	SNC75876 2/9/12							
	Homana	Applicable Manufacturer's Data Reports to be attached									
		Replacement valve construction is ASME Sec. III 1971 Editi									
		Replacement Pipe is ASME Sec. III Subsection NC 1983 Edition, Winter 1983 Addenda									
		Reference: FNP Piping Specification SS110902 allows a co Edition Addenda, VT-2 Completed , Transaction 1151387		of ASME Section III, 1971 Edition thru 2000							
	<del></del>	CERTIFICATE OF COMPLIA									
Code, S	We certify tection XI.	that the statements made in the report are correct and that thi repair or re		conforms to the rules of the ASME							
Type Co Stamp	ode Symbol		I/A								
Certific	ate of zation No.		xpiration ate	N/A							
Signed	2	Owner or Owner's Designee, Title	Date /-31-/2								
		CERTIFICATE OF INSERVICE IN	SPECTION								
61/	have inspe	ereigned, holding a valid commission issued by the National Enternal and employed by HSS Content the components described in this Owner's Report during, and state that to the best of my knowledge and a described in this Owner's Report in accordance with the requirement.	the period belief, the Owne	of Aportona C.T to the range performed examinations and taken							
	ations and co	g this certificate neither the Inspector nor his employer m orrective measures described in this Owner's Report. Furthe ny personal injury or property damage or a loss of any kind an	rmore, neither the	inspector nor his employer shall be liable							
*	Ver	Commission 8	812603AN	, GA690							
c	Date 02/01	Inspector's Signature	National Board, S	State, Province and Endorsements							

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

.6

1.	Owner Southern Nuclear Operating Company			Date		February 7, 2012		
		40 Inverness Ctr	Name Pkwy, Birmingham, Al. 35242 Address	Sheet	1	of	41111	3
2.	Plant	Joseph M Farley	Nuclear Plant (FNP)  Name	Unit		FNP UN	IIT 2	
		7388 N. State Hw	y 95, Columbia, Al. 36319		WO#	SNC324095	E21	
			Address	Repair/Rep	lacement (	Organization P	.O. No., Jo	b No , etc.
3.	Work Pe	rformed by FNP MA	Type Code Sym Stamp	N/A				
			Name	Authorization No.	^		N/A	
		7388 N. State Hi	wy 95, Columbia, Al. 36319	Expiration Date			N/A	
			Address	<del></del>				
4.	Identifica	ition of System	Q2E21-HCB-19 (PIPING), (	02E21V0182C (VALV	E), and 2C	VC-R246 (HAN	GER) – Co	de Class 2
5.	(b) Appli	cable Edition of Se	Code Sect. III, 1971 ction XI Used for Repair/Repla		nmer 1971 2001 Edițio	Addenda, n. 2003 Adden	N/A da	Code Case

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. Tuli 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	118185	N/A	SNA10018558	2011	Installed	No
Elbow (2)	Ezeflow	304L-PJK001P	NA	SNA10018558	2011	Installed	No
Flange (2)	WFI	2950ANE	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
Stude (21)	Midsouth	AHNG-10	N/A	SNA10021149	2011	Installed	No

Figure 1

SNC 324095 Public

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.		Replaced charging pump suction piping Q2E21-HCB-19 and valve Q2E21V0182C that were overstressed when
	the suction piping was o	verpressurized. Also replaced parts of associated pipe hanger 2CVC-R248.
8.	Test Conducted:	Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other Pressure psi Test Temp.

o. nemarks	rne replacement valve was approved per t	ED SIVUSSOCOT. A VI-2 examination wa	as periormed 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 Transac								
-	numbers for Material are: 1280487, 128049	71, 1280095, 1279009 1214007, 133847	5, 1214005, 1335670 1388715, and.						
	1342035								
		ATE OF COMPLIANCE	The second secon						
We certify the Code, Section XI.	hat the statements made in the report are co	repair or replacement	_conforms to the rules of the ASME						
Type Code Symbol Stamp		N/A							
Certificate of Authorization No.	N/A	Expiration Date	N/A						
Signed	Owner or Owner's Designee, Title	Date 2/8/12	2						
	CERTIFICATE C	F INSERVICE INSPECTION							
or Province of C	signed, holding a valid commission issued leading to the components described in this Owner's not the best of my described in this Owner's Report in accordance.	r's Report during the period 10/ knowledge and belief, the Owner h	of therefold or to get performed examinations and taker						
examinations and co	this certificate neither the Inspector nor rrective measures described in this Owner's y personal injury or property damage or a los	s Report. Furthermore, neither the In-	spector nor his employer shall be liable						
120	Inspector's Signature	Commission s 12603,A172 National Board, State	କ୍ୟ bବର e, Province and Endorsements						
Date 02/0	8/2012								

#### 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:	Oct	ober 20, 2011	
	4-1	Name		·				
	40 Inverness C	enter Parkway; Birmi	ingham, AL 35242		Sheet: 1	of	2	
2	Plant. Jos	Address seph M. Farley Nucles	ar Plant (FNP)	ı	Jnit:	1	FNP Unit 2	
٤	riant. doe	Name	ar richt (e 14)	. `			THE OTHER	
	7388 North	State Hwy 95; Colum	nbia, AL 36319		Work Order No.:	P17 - SI	NC82691	
		Address		_	Repair/Replacem	ent Orga	nization PO No,	Job No. etc.
3	Work Performed By:	FNP Mainter	nance Department	7	Type Code Symbol	Stamp.	N/A	4
		Name		,				
	7388 North	State Hwy 95; Colum	nbia, Al. 36319	. /	Authorization No.:	*****	N/A	
		Address			Turker Date		81/8	
			باس م		Expiration Date:		N/A	
4.	Identification of System	m: TPNS: Q2	جراتي P17SNUBBCCW/149B		NENT COOLING W	ATER S	YSTEM, ASME (	CLASS 3
•								
5.	(a) Applicable Constr.	ection Code: S	ee Remarks , N/A	Edition,	N/A Ac	idenda,	N/A	Code Case
			Year			•		•
	(b) Applicable Edition	of Section XI Used fo	or Repair/Replacement Ac	tivity:		denda:	200	3
	() A # 1) G				Year			
	(c) Applicable Section	XI Code Case(s):			N/A			
6.	Identification of Comp	onents:						
Г		Name of		Nationa	Other	Vaca	Corrected,	ASME Code
ı	Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board	Identification	Year Built	Removed, or	Stamped
L				No			Installed	(Yes or No)
_	Hydraulic Snubber	ITT GRINNELL	14012	N/A	36803	1985	Removed	NO I
-	Hudraulia Saubbar	ANVIL	20452	N/A	QP110051	2011	Installed	NO
-	Hydraulic Snubber	ANVIL	38453	INIA	QFTIOOST	2011	mstaned	NO
	Adapter Plate	ANVIL	38453	N/A	QP110051	2011	Installed	NO
_								
<u>L</u>								
-			- 4					
L_					1			
7.	Description of Work:	Snubber 2CCV	N-H149B was replaced a	s a sched	duled upgrade Ref	Transac	ction # 1071385,	1071331
8	Tests Conducted:	Hydrostatic	Pneumatic	Nominal	Operating Pressure	9 🔲	Exempt	$\mathbf{Z}$
		Other	Pressure:	(	psi <b>T</b> est Ter	np.:	°F	

NOTE: Supplemental sheets in form of Ilsts, 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.

9. Remarks			
	Applicable Manufacturer's Data Rep	ports to be attached	
Supports Designed to AISC-1969 and welded	to AWS D1.1-86.		
Reference equivalency determination C09193	33501		
Ref: Transaction # 1071385, 1071331			
VT-3 Exam Perlormed after Installation			
5NC82691 02/4/2			4
	CERTIFICATE OF COMP	PLIANCE	
I certify that the statements made in the rep	port are correct and that this	REPLACEMENT ZITILE conforms to the requirements of the	ASME Code, Section X
Type Code Symbol Stamp:		N/A	<del>-</del>
Certificate of Authorization No.:	N/A	Expiration Date:	N/A
Signed: MISR Vaucht	fur Leonard Smith , Mair	ntenance Manager Date: 7	-3 /2
THE THE THE THE	Owner's Designee, Title	Iteriance Manager Date	
	The same of the sa	CANADA TO THE REAL PROPERTY OF	
CE	ERTIFICATE OF INSERVICE	INSPECTION	
I, the undersigned, holding a valid commiss			nspectors and the
State or Province of GEORGIA ar	nd employed by 145B	CT	
of HARTFORD CT		have inspected the comp	onents described in this
•	2/03/2012	to 02/08/2012	, and state that to
the best of my knowledge and belief, the Own	•		lescribed in this
Owner's Report in accordance with the require	aments of the ASME Code, S	Section XI.	
By signing this certificate neither the Inspec			
examinations and corrective measures descri- liable in any manner for any personal injury or	bed in this Owner's Report. I	Furthermore, neither the Inspector net any kind adsign from or connected	or his employer shall be with this inspection.
liable in any mariner for any personal righty of	property damage or a ross of	rany Kind anong nom or connected	That the mopestion
The S	Commission	18: 12603 AIN GA69	n.
Inspector's Signature	Commission	National Board, State, Provin	ce, and Endorsements
/ /			
Date: 02/08/2012			