

**Southern Nuclear  
Operating Company, Inc.**  
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*Energy to Serve Your World™*

August 14, 2007

Docket No.: 50-364

NL-07-1560

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

Joseph M. Farley Nuclear Plant – Unit 2  
Inservice Inspection Summary Report

Ladies and Gentlemen:

Southern Nuclear Operating Company (SNC) submits herewith the Farley Nuclear Plant (FNP) Unit 2, Interval 3, Period 2, Outage 2 Inservice Inspection Summary Report (Enclosure). This report describes and summarizes the inservice inspection activities performed during the Unit 2 Spring 2007 maintenance/refueling outage. Paragraph IWA-6230 of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, 1989 Edition requires submittal of the enclosed report.

This letter contains no NRC commitments. If you have any questions, please advise.

Sincerely,

A handwritten signature in black ink that reads "B. J. George". The signature is written in a cursive style with a large, sweeping initial "B".

B. J. George  
Manager, Nuclear Licensing

BJG/JLS/daj

Enclosure: Farley Nuclear Plant - Unit 2 Inservice Inspection Summary Report

cc: Southern Nuclear Operating Company  
Mr. J. T. Gasser, Jr., Executive Vice President  
Mr. J. R. Johnson, Vice President – Farley  
Mr. D. H. Jones, Vice President – Engineering  
RTYPE: CFA04.054, LC# 14623

U. S. Nuclear Regulatory Commission  
Dr. W. D. Travers, Regional Administrator  
Ms. K. R. Cotton, NRR Project Manager – Farley  
Mr. E. L. Crowe, Senior Resident Inspector – Farley

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**Joseph M. Farley Nuclear Plant – Unit 2**

**Enclosure**

**Farley Nuclear Plant - Unit 2  
Inservice Inspection Summary Report**

FARLEY NUCLEAR PLANT - UNIT 2  
INSERVICE INSPECTION SUMMARY REPORT

FARLEY NUCLEAR PLANT - UNIT 2  
INSERVICE INSPECTION SUMMARY REPORT - INDEX

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# TAB A

Form NIS-1 Owner's Report for  
Inservice Inspection

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

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

| Component or Appurtenance | Manufacturer or Installer | Manufacturer or Installer Serial No. | State or Province No. | National Board No. |
|---------------------------|---------------------------|--------------------------------------|-----------------------|--------------------|
| Reactor Vessel            | Combustion Engineering    | CE 69105                             | N/A                   | 21385              |
| Pressurizer               | Westinghouse Tampa        | 1561                                 | N/A                   | W10793             |
| Steam Gen A               | Westinghouse Pensacola    | ALAD-40307                           | N/A                   | 73                 |
| Steam Gen B               | Westinghouse Pensacola    | ALAD-40308                           | N/A                   | 74                 |
| 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 12/01/05 to 05/17/07
9. Inspection Period Identification: Second Period 12/01/04 to 03/31/08
10. Inspection Interval Identification: Third Interval 07/30/01 to 07/30/11
11. Applicable Edition of Section XI 1989 Addenda None
12. Date/Revision of Inspection Plan: FNP-2-M-097; 04/03/07; Version 8
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 8-10-2007 Signed Southern Nuclear Operating Co. By WLB  
(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 NEW HAMPSHIRE and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 12/01/2005 to 5/17/2007, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NH 734 AIN  
Inspector's Signature National Board, State, Province, and Endorsements

Date AUGUST 10<sup>TH</sup> 20 07

**OWNER'S REPORT  
FOR  
INSERVICE INSPECTION**

**DATE:** 07/13/07

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

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

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

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

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

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

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

**CLASS 1**

| <b>COMPONENT OR SYSTEM</b> | <b>SYSTEM DESIGNATION</b> | <b>APR SKETCH</b>  |
|----------------------------|---------------------------|--|
| Reactor Vessel             | B11                       | 1-1100   |
| Steam Generator A          | B21                       | 1-3100   |
| Steam Generator B          | B21                       | 1-3200   |
| Reactor Coolant System     | B13                       | 1-4105, 1-4108, 1-4200, 1-4205, 1-4210, 1-4500, 1-4502, 1-4504 |
| Safety Injection System    | E11                       | 1-4202, 1-4203, 1-4208, 1-4301, 1-4304,                        |
| Safety Injection System    | E21                       | 1-4104, 1-4201, 1-4202, 1-4204, 1-4207, 1-4209, 1-4310,        |

## CLASS 2

| COMPONENT OR SYSTEM | SYSTEM DESIGNATION | APR SKETCH                                       |
|---------------------|--------------------|--|
| RHR System          | E11                | 2-4505, 2-4506A, 2-4507, 2-4509, 2-4509A, 2-4511 |
| Containment Spray   | E13                | 2-5150   |
| CVCS                | E21                | 2-4600, 2-4603, Charging Pump 2A                 |
| Safety Injection    | E21                | 2-4615,  |
| Main Steam System   | N11                | 2-4200, 4201                                     |
| Main Steam System   | N12                | 2-4202, 2-4302                                   |
| Feedwater           | N21                | 2-4250, 2-4350                                   |

**HYDROSTATIC TESTING: SEE TAB B**

**NAME OF AUTHORIZED NUCLEAR INSERVICE INSPECTOR:** James Haubrich

**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 Examination Summary

# **J. M. FARLEY NUCLEAR PLANT UNIT NO 2 INTERVAL 3 PERIOD 2 OUTAGE 2 BALANCE OF PLANT EXAMINATION SUMMARY**

## **INTRODUCTION**

The ASME Boiler and Pressure Vessel Code, Section XI, 1989 Edition (Code), is the applicable code for conducting inservice inspection activities during the third 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 December 1, 2005 (date of last examination performed during the seventeenth maintenance/refueling outage, 2R17 / 3-2-1) and May 17, 2007 (date of last examination performed during the eighteenth maintenance/refueling outage, 2R18 / 3-2-2).

The examinations were performed in accordance with the approved Examination Program 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 initial Rule specified the 1995 Edition with Addenda through 1996 as the applicable edition of ASME Section XI, Appendix VIII. 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 2R17 through the end of 2R18. Class 1 and Class 2 Owner's Reports for Repairs or Replacements (Form NIS-2) are provided herein.

It should be noted that Authorized Nuclear Inservice Inspector (ANII) inspection services were provided for those examinations and tests required by the Code. ASME Section XI examinations and tests are itemized in the applicable sections by reference to Examination Category. Examinations which do not meet the Code-required coverage either reference request(s) for relief or indicate that additional relief is required.

This report does not include a summary of the Steam Generator Tube Inspections which are required per FNP Technical Specification 5.6.10. This will be 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. The applicable ASME Code requirements were met and the separate report will provide the details for these examinations.

## **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**

- During 2R18 volumetric inspections, 1 weld (APR1-4500-7DM) was reported having flaw indications exceeding applicable acceptance standards. The weld was associated with Alloy 600 material and, as a result, the weld was repaired using a full Structural Weld Overlay (FSWOL). The examination results of the initial inspection are located in Volume 2, Tab E. The overlay results have been previously submitted under a separate cover letter dated on May 9, 2007.
- In addition to components already identified in current requests for relief, two (2) 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.

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

- There were forty three (43) bolted connections from the Class 1 pressure tests with various degrees of boron accumulation. In each case the boron was removed and either an evaluation or a re-examination found each one acceptable.

### **CLASS 2**

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

- There were no Class 2 Volumetric indications.
- In addition to components already identified in current requests for relief, four (4) class 2 welds had limited volumetric coverage during UT examinations because of physical limitations due to the geometric configuration of the welded areas. As with the class 1 limitations, 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 2 Surface indications.

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

- There were no reportable Class 2 Visual indications.

## ADDITIONAL EXAMINATIONS

Results from additional examinations which were performed during this outage are as follows:

- **Class 1 System Leakage Test**

In accordance with ASME Section XI 1989 Edition IWB-5210(a)(1), leak testing of the Class 1 Reactor Coolant Pressure Boundary was performed prior to startup following the 18<sup>th</sup> refueling outage. The testing was initiated on 05/04/07 and completed (repairs) on 05/17/07. A copy of the completed test procedure FNP-2-SOP-1.4 is retained by the Farley Nuclear Plant Document Control. There were nine accounts of boron accumulation, two active leaks at end caps, and one leaking kyrotest valve. In each case the boron was removed and necessary corrective action was performed. Results of this testing can be seen under FNP-2-STP-157 Indication Evaluation Report 008.

In addition, to meet the 1989 Section XI IWA-5242(a) requirement for removal of insulation from bolted connections in systems borated for the purpose of controlling reactivity, the alternative examination requirements of Relief Request RR-27 were utilized and visual testing of uninsulated Class 1 bolted connections at static pressure was performed. There were forty three (43) bolted connections with some degree of boron accumulation; nine connections had affected bolting. In each case the boron was removed and necessary corrective action was performed. Results of this testing can be seen under FNP-2-STP-157 Indication Evaluation Report 008. The Class 1 leakage test was performed and the Code requirements were satisfied.

- **Class 1 and 2 Hydrostatic testing**

No hydrostatic testing was performed during the 18<sup>th</sup> refueling outage.

- **Class 2 Functional/Inservice Testing**

Class 2 function testing performed during the 18<sup>th</sup> refueling outage included portions of the Residual Heat Removal, Containment Spray, Safety Injection and Charging systems. There were sixteen bolted connections associated with the Class 2 pressure testing which had boron accumulation affecting bolting. Stem packing and end cap boron accumulations were also observed. In each case the boron was removed and necessary corrective action was performed. Completed data sheets from FNP-2-STP-156.2 are filed in Farley Nuclear Plant Document Control. Class 2 functional and inservice tests were performed and the code requirements were satisfied.

- **IWE/IWL Examinations**

Inservice inspection examinations were completed on the Unit 2 Containment Building in accordance with the 1992 Edition with the 1992 Addenda of the ASME Code, Section XI, Subsections IWE and IWL during the current inspection interval. The IWE general visual examination of the containment liner was completed in April 2007 and is documented by work order 2060236201. The IWL Unit Two 25-Year tendon surveillance was completed in May 2006 which is documented in work order 2052764901. The results of these surveillances are available at FNP for review.

## **STATUS OF EXAMINATIONS REQUIRED FOR CURRENT INTERVAL**

This refueling was the 2<sup>nd</sup> Outage, 2<sup>nd</sup> Period of the 3<sup>rd</sup> Interval and the examinations completed to date represent 100% of the total Class 1 and 2 scope for the current period. Approximately 58% of the examinations required for the current interval have been completed. Therefore, Falrey-2 is within ASME Code compliance, pending 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.

**APR  
SUMMARY OF RECORDED INDICATIONS  
2007 UNIT 2RF18**

| SKETCH    | ID             | ITEM DESCRIPTION                            | INDICATION DESCRIPTION                     | ACCEPTED PER |             | MONITOR | IER NUMBER |
|-----------|----------------|---|--|--------------|-------------|---------|------------|
|           |                |   |  | EVALUATION   | REPAIR/REPL |         |            |
| APR1-4500 | 7DM            | PZR surge nozzle to safe-end weld           | Planar Flaws                               | -            | X           | -       | 001        |
| APR2-4201 | 17             | MS pipe to Flange weld                      | Mid-wall inclusions                        | X            | -           | -       | 002        |
| APR2-4201 | 23BC           | MS branch connection weld                   | Mid-wall inclusions                        | X            | -           | -       | 003        |
| APR2-4201 | 14             | MS pipe to Flange weld                      | Mid-wall inclusions                        | X            | -           | -       | 004        |
| APR2-4201 | 16             | MS pipe to Flange weld                      | Mid-wall inclusions                        | X            | -           | -       | 005        |
| APR2-5100 | 1R, 2R, 3R, 4R | Charging pump integrally welded attachments | Surface porosity                           | X            | -           | -       | 006        |
| APR1-4500 | WOL-1          | PZR surge nozzle weld overlay (baseline)    | Subsurface laminar                         | X            | -           | -       | 007        |
| N/A       | N/A            | Pressure Test 160.1-1                       | Evidence of Leakage and Boron Accumulation | -            | X           | -       | 008        |
| N/A       | N/A            | Pressure Test 160.22-1                      | Evidence of Leakage/ Boron Accumulation    | -            | X           | -       | 008        |
| N/A       | N/A            | Pressure Test 160.23-1                      | Evidence of Leakage/ Boron Accumulation    | -            | X           | -       | 008        |
| N/A       | N/A            | Class 1 Bolted connections                  | Evidence of Leakage/ Boron Accumulation    | -            | X           | -       | 008        |
| N/A       | N/A            | System Leakage Test                         | Evidence of Leakage/ Boron Accumulation    | -            | X           | -       | 008        |
|           |                |   |  |              |             |         |            |

# TAB C

## Examination Program Plan

**Farley Unit 2  
Class 1 Components**

| <b>ASME Section XI</b> | <b>Examination/Area</b>                                     | <b>Examination Procedure(s)</b> | <b>Cal Block(s)</b> | <b>Exam/Cal Sheet No(s).</b>                         | <b>Results</b> | <b>Remarks</b>   |
|------------------------|---|---------------------------------|---------------------|--|----------------|--|
| F-A<br>F1.40           | <b>APR1-1100-CS-4</b><br>RPV Vessel Supports                | NMP-ES-024-203                  | -                   | S07F2V0019   | SAT            | None   |
| B-B<br>B2.40           | <b>APR1-3100-1R</b><br>Steam Generator Ch Head to Tubesheet | FNP-0-NDE-100.34                | ALA-59              | S07F2U0062<br>S07F2U0063<br>S07F2U0064<br>S07F2U0065 | NRI            | None   |
| B-D<br>B3.140          | <b>APR1-3100-IR1R</b><br>Steam Generator Nozzle Inner Radii | FNP-0-NDE-100.46                | ALA-54              | S07F2U0037<br>S07F2U0038<br>S07F2U0041               | NRI            | None   |
| B-D<br>B3.140          | <b>APR1-3100-IR2R</b><br>Steam Generator Nozzle Inner Radii | FNP-0-NDE-100.46                | ALA-54              | S07F2U0039<br>S07F2U0044<br>S07F2U0045               | NRI            | None   |
| B-D<br>B3.140          | <b>APR1-3200-IR1R</b><br>Steam Generator Nozzle Inner Radii | FNP-0-NDE-100.46                | ALA-54              | S07F2U0040<br>S07F2U0042<br>S07F2U0043               | NRI            | None   |
| B-D<br>B3.140          | <b>APR1-3200-IR2R</b><br>Steam Generator Nozzle Inner Radii | FNP-0-NDE-100.46                | ALA-54              | S07F2U0046<br>S07F2U0047<br>S07F2U0048               | NRI            | None   |
| B-G-2<br>B7.30         | <b>APR1-3200-N01 - N32</b><br>Steam Gen Manway Bolting      | NMP-ES-024-201                  | -                   | S07F2V0057   | SAT            | Examined while disassembled and in place, under tension. |
| B-G-2<br>B7.30         | <b>APR1-3200-S01 - S32</b><br>Steam Gen Manway Bolting      | NMP-ES-024-201                  | -                   | S07F2V0061   | SAT            | Examined while disassembled and in place, under tension. |
| F-A<br>F1.10           | <b>APR1-4104-2SI-R120</b><br>Piping Support                 | NMP-ES-024-203                  | -                   | S07F2V0053   | SAT            | None   |

**Farley Unit 2  
Class 1 Components**

| <b>ASME Section XI</b> | <b>Examination/Area</b>                                    | <b>Examination Procedure(s)</b> | <b>Cal Block(s)</b> | <b>Exam/Cal Sheet No(s).</b>   | <b>Results</b> | <b>Remarks</b>                    |
|------------------------|--|---------------------------------|---------------------|--|----------------|-----------------------------------|
| B-K<br>B10.20          | <b>APR1-4104-2SI-R120 (W6)</b><br>Piping Welded Attachment | NMP-ES-024-301                  | -                   | S07F2P0005   | NRI            | None                              |
| B-M-2<br>B12.50        | <b>APR1-4104-QV077A</b><br>Valve Internals                 | NMP-ES-024-203                  | -                   | S07F2V0064   | SAT            | Examined when disassembled.       |
| F-A<br>F1.10           | <b>APR1-4105-2RC-R56</b><br>Piping Support                 | NMP-ES-024-203                  | -                   | S07F2V0026   | SAT            | None                              |
| R-A<br>R1.11           | <b>APR1-4108-16BW</b><br>Tee to Pipe                       | NMP-ES-024-501                  | ALA-9               | S07F2U0105<br>S07F2U0106   | NRI            | None                              |
| R-A<br>R1.11           | <b>APR1-4200-25RDM</b><br>Steam Gen Nozzle to Safe-end     | NMP-ES-024-507                  | MEUXE0<br>20A       | S07F2U0049<br>S07F2U0050<br>S07F2U0051<br>S07F2U0052<br>S07F2U0053<br>S07F2U0054 | NRI            | None                              |
| R-A<br>R1.11           | <b>APR1-4200-26RDM</b><br>Steam Gen Nozzle to Safe-end     | NMP-ES-024-507                  | MEUXE0<br>20A       | S07F2U0055<br>S07F2U0056<br>S07F2U0057<br>S07F2U0058<br>S07F2U0060<br>S07F2U0061 | NRI            | None                              |
| F-A<br>F1.10           | <b>APR1-4201-2SI-R179</b><br>Piping Support                | NMP-ES-024-203                  | -                   | S07F2V0029   | SAT            | None                              |
| F-A<br>F1.10           | <b>APR1-4202-2SI-R144</b><br>Piping Support                | NMP-ES-024-203                  | -                   | S07F2V0030   | SAT            | None                              |
| B-G-2<br>B7.70         | <b>APR1-4202-QV021B (B)</b><br>Valve Bolting               | NMP-ES-024-201                  | -                   | S07F2V0020   | SAT            | Examined in place, under tension. |

**Farley Unit 2  
Class 1 Components**

| <b>ASME Section XI</b> | <b>Examination/Area</b>                      | <b>Examination Procedure(s)</b> | <b>Cal Block(s)</b> | <b>Exam/Cal Sheet No(s).</b> | <b>Results</b> | <b>Remarks</b>   |
|------------------------|--|---------------------------------|---------------------|------------------------------|----------------|--|
| R-A<br>R1.11H          | <b>APR1-4203-9</b><br>Valve to Pipe          | NMP-ES-024-501                  | ALA-67              | S07F2V0127<br>S07F2V0146     | NRI            | 50% coverage due to configuration.<br>Request for Relief required. |
| R-A<br>R1.11H          | <b>APR1-4203-10</b><br>Pipe to Elbow         | NMP-ES-024-501                  | ALA-67              | S07F2V0128                   | NRI            | None   |
| B-G-2<br>B7.70         | <b>APR1-4203-QV051B (B)</b><br>Valve Bolting | NMP-ES-024-201                  | -                   | S07F2V0043                   | SAT            | Examined in place, under tension.                                  |
| R-A<br>R1.11H          | <b>APR1-4204-19</b><br>Pipe to Elbow         | NMP-ES-024-501                  | ALA-67              | S07F2V0129                   | NRI            | None   |
| F-A<br>F1.10           | <b>APR1-4204-2SI-R138</b><br>Piping Support  | NMP-ES-024-203                  | -                   | S07F2V0031                   | SAT            | None   |
| F-A<br>F1.10           | <b>APR1-4204-2SI-R140</b><br>Piping Support  | NMP-ES-024-203                  | -                   | S07F2V0049                   | SAT            | None   |
| F-A<br>F1.10           | <b>APR1-4204-2SI-R141</b><br>Piping Support  | NMP-ES-024-203                  | -                   | S07F2V0054                   | SAT            | None   |
| B-G-2<br>B7.70         | <b>APR1-4204-QV076B (B)</b><br>Valve Bolting | NMP-ES-024-201                  | -                   | S07F2V0021                   | SAT            | Examined in place, under tension.                                  |
| B-G-2<br>B7.70         | <b>APR1-4204-QV077B (B)</b><br>Valve Bolting | NMP-ES-024-201                  | -                   | S07F2V0045                   | SAT            | Examined in place, under tension.                                  |
| B-M-2<br>B12.50        | <b>APR1-4204-QV077B</b><br>Valve Internals   | NMP-ES-024-203                  | -                   | S07F2V0063                   | SAT            | Examined while disassembled  |
| F-A<br>F1.10           | <b>APR1-4205-2RC-R13X</b><br>Piping Support  | NMP-ES-024-203                  | -                   | S07F2V0027                   | SAT            | None   |

**Farley Unit 2  
Class 1 Components**

| <b>ASME Section XI</b> | <b>Examination/Area</b>                      | <b>Examination Procedure(s)</b> | <b>Cal Block(s)</b> | <b>Exam/Cal Sheet No(s).</b> | <b>Results</b> | <b>Remarks</b> |
|------------------------|--|---------------------------------|---------------------|------------------------------|----------------|----------------|
| F-A<br>F1.10           | <b>APR1-4205-2RC-R18</b><br>Piping Support   | NMP-ES-024-203                  | -                   | S07F2V0033                   | SAT            | None           |
| F-A<br>F1.10           | <b>APR1-4205-2RC-R20</b><br>Piping Support   | NMP-ES-024-203                  | -                   | S07F2V0046                   | SAT            | None           |
| F-A<br>F1.10           | <b>APR1-4205-2RC-R43</b><br>Piping Support   | NMP-ES-024-203                  | -                   | S07F2V0028                   | SAT            | None           |
| F-A<br>F1.10           | <b>APR1-4207-2CVC-R655</b><br>Piping Support | NMP-ES-024-203                  | -                   | S07F2V0034                   | SAT            | None           |
| F-A<br>F1.10           | <b>APR1-4207-2CVC-R657</b><br>Piping Support | NMP-ES-024-203                  | -                   | S07F2V0044                   | SAT            | None           |
| F-A<br>F1.10           | <b>APR1-4207-2CVC-R662</b><br>Piping Support | NMP-ES-024-203                  | -                   | S07F2V0025                   | SAT            | None           |
| F-A<br>F1.10           | <b>APR1-4207-2CVC-R663</b><br>Piping Support | NMP-ES-024-203                  | -                   | S07F2V0024                   | SAT            | None           |
| R-A<br>R1.11S          | <b>APR1-4208-21</b><br>Elbow to Pipe         | NMP-ES-024-301                  | -                   | S07F2P0006                   | NRI            | None           |
| F-A<br>F1.10           | <b>APR1-4208-SS-12282</b><br>Piping Support  | NMP-ES-024-203                  | -                   | S07F2V0039                   | SAT            | None           |
| F-A<br>F1.10           | <b>APR1-4208-SS-12284</b><br>Piping Support  | NMP-ES-024-203                  | -                   | S07F2V0036                   | SAT            | None           |
| F-A<br>F1.10           | <b>APR1-4208-SS-12290</b><br>Piping Support  | NMP-ES-024-203                  | -                   | S07F2V0040                   | SAT            | None           |
| F-A<br>F1.10           | <b>APR1-4208-SS-12292</b><br>Piping Support  | NMP-ES-024-203                  | -                   | S07F2V0037                   | SAT            | None           |

**Farley Unit 2  
Class 1 Components**

| <b>ASME Section XI</b> | <b>Examination/Area</b>                            | <b>Examination Procedure(s)</b>           | <b>Cal Block(s)</b>  | <b>Exam/Cal Sheet No(s).</b>                         | <b>Results</b> | <b>Remarks</b>   |
|------------------------|--|---|----------------------|--|----------------|--|
| B-G-2<br>B7.50         | <b>APR1-4209-FLG-1</b><br>Flange Bolting           | NMP-ES-024-201                            | -                    | S07F2V0041   | SAT            | Examined in place, under tension.  |
| R-A<br>R1.11           | <b>APR1-4210-4</b><br>Pipe to Valve                | NMP-ES-024-301                            | -                    | S07F2P0003   | NRI            | None   |
| B-G-2<br>B7.70         | <b>APR1-4301-QV016A (B)</b><br>Valve Bolting       | NMP-ES-024-201                            | -                    | S07F2V0042   | SAT            | Examined in place, under tension.  |
| R-A<br>R1.11           | <b>APR1-4304-19</b><br>Valve to Pipe               | NMP-ES-024-501                            | ALA-67               | S07F2U0131<br>S07F2U0132                             | NRI            | UT exam limited to 50% due to configuration. Request for relief required.  |
| R-A<br>R1.11H          | <b>APR1-4304-20</b><br>Pipe to Elbow               | NMP-ES-024-501                            | ALA-67               | S07F2U0130   | NRI            | None   |
| R-A<br>R1.11           | <b>APR1-4310-6</b><br>Pipe to Valve                | NMP-ES-024-301                            | -                    | S07F2P0004   | NRI            | None   |
| R-A<br>R1.11C          | <b>APR1-4500-7DM</b><br>PZR Nozzle to Safe-end     | NMP-ES-024-507<br>ZETEC Omniscan<br>PA 03 | ALA-2                | S07F2U0005<br>S07F2U0006<br>S07F2U0007<br>S07F2U0008 | RI             | UT RI – Planar Flaw. Code rejectable. Detected by manual and phased array automated. Repaired by full structural weld overlay. Reference IER 001 |
| --<br>--               | <b>APR1-4500-WOL-1</b><br>PZR Surge Nozzle Overlay | WDI-STD-1007                              | AX 16-02<br>CR 16-02 | -  | RI             | UT RI – LOB. Code Acceptable.  |
| R-A<br>R1.11           | <b>APR1-4502-1DM</b><br>PZR Nozzle to Safe-end     | NMP-ES-024-507                            | ALA-5                | S07F2U0080<br>S07F2U0081<br>S07F2U0082<br>S07F2U0083 | NRI            | None   |

**Farley Unit 2  
Class 1 Components**

| <b>ASME<br/>Section XI</b> | <b>Examination/Area</b>                        | <b>Examination<br/>Procedure(s)</b> | <b>Cal<br/>Block(s)</b> | <b>Exam/Cal Sheet<br/>No(s).</b>                     | <b>Results</b> | <b>Remarks</b> |
|----------------------------|--|-------------------------------------|-------------------------|--|----------------|----------------|
| R-A<br>R1.11               | <b>APR1-4504-1DM</b><br>PZR Nozzle to Safe-end | NMP-ES-024-507                      | ALA-5                   | S07F2U0088<br>S07F2U0089<br>S07F2U0090<br>S07F2U0091 | NRI            | None           |

**Farley Unit 2  
Class 2 Components**

| <b>ASME Section XI</b> | <b>Examination/Area</b>                    | <b>Examination Procedure(s)</b> | <b>Cal Block(s)</b> | <b>Exam/Cal Sheet No(s).</b> | <b>Results</b> | <b>Remarks</b>  |
|------------------------|--|---------------------------------|---------------------|------------------------------|----------------|---|
| R-A<br>R1.11           | <b>APR2-4200-11</b><br>Pipe to Pipe        | NMP-ES-024-507                  | ALA-24              | S07F2U0107<br>S07F2U0108     | NRI            | None  |
| F-A<br>F1.20           | <b>APR2-4200-2MS-R89</b><br>Pipe Support   | NMP-ES-024-203                  | -                   | S07F2V0055                   | SAT            | None  |
| R-A<br>R1.11           | <b>APR2-4201-1</b><br>Pipe to Elbow        | NMP-ES-024-502                  | ALA-24              | S07F2U0140                   | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4201-2</b><br>Elbow to Elbow       | NMP-ES-024-502                  | ALA-24              | S07F2U0093                   | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4201-3</b><br>Elbow to Pipe        | NMP-ES-024-502                  | ALA-24              | S07F2U0133                   | RI             | UT RI - Geometry  |
| R-A<br>R1.11           | <b>APR2-4201-23BC</b><br>Branch Connection | NMP-ES-024-502                  | ALA-27              | S07F2U0019<br>S07F2U0020     | RI             | UT RI – Midwall planar. Code Acceptable.<br>Reference IER 003<br>UT exam limited to 65% due to configuration.<br>Request for relief required. |
| R-A<br>R1.11           | <b>APR2-4201-24</b><br>Pipe to Elbow       | NMP-ES-024-502                  | ALA-27              | S07F2U0021                   | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4201-25</b><br>Elbow to Pipe       | NMP-ES-024-502                  | ALA-27              | S07F2U0022                   | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4201-26</b><br>Pipe to Valve       | NMP-ES-024-502                  | ALA-27              | S07F2U0023<br>S07F2U0024     | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4201-27</b><br>Valve to Pipe       | NMP-ES-024-502                  | ALA-27              | S07F2U0025<br>S07F2U0026     | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4201-28</b><br>Pipe to Elbow       | NMP-ES-024-502                  | ALA-27              | S07F2U0027                   | NRI            | None  |

**Farley Unit 2  
Class 2 Components**

| <b>ASME Section XI</b> | <b>Examination/Area</b>                             | <b>Examination Procedure(s)</b> | <b>Cal Block(s)</b> | <b>Exam/Cal Sheet No(s).</b> | <b>Results</b> | <b>Remarks</b>  |
|------------------------|---|---------------------------------|---------------------|------------------------------|----------------|---|
| R-A<br>R1.11           | <b>APR2-4201-29</b><br>Elbow to Pipe                | NMP-ES-024-502                  | ALA-27              | S07F2U0028                   | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4201-30</b><br>Pipe to Valve                | NMP-ES-024-502                  | ALA-27              | S07F2U0029                   | NRI            | UT exam limited to 61% due to welded restraint.<br>Request for relief required. |
| R-A<br>R1.11           | <b>APR2-4201-31</b><br>Valve to Pipe                | NMP-ES-024-502                  | ALA-27              | S07F2U0030<br>S07F2U0031     | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4201-32</b><br>Pipe to Valve                | NMP-ES-024-502                  | ALA-27              | S07F2U0125<br>S07F2U0126     | NRI            | None  |
| C-C<br>C3.20           | <b>APR2-4201-2MS-R510 (W2)</b><br>Welded Attachment | NMP-ES-024-402                  | -                   | S07F2M0001                   | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4202-1BC</b><br>Branch Connection           | NMP-ES-024-202                  | -                   | S07F2V0047                   | SAT            | None  |
| R-A<br>R1.11           | <b>APR2-4250-16</b><br>Reducer to Pipe              | NMP-ES-024-502                  | ALA-26              | S07F2U0144<br>S07F2U0145     | NRI            | None  |
| C-C<br>C3.20           | <b>APR2-4250-2FW-R11 (W8)</b><br>Welded Attachment  | NMP-ES-024-402                  | -                   | S07F2M0002                   | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4302-1BC</b><br>Branch Connection           | NMP-ES-024-202                  | -                   | S07F2V0048                   | SAT            | None  |
| F-A<br>F1.20           | <b>APR2-4350-2FW-R32</b><br>Piping Support          | NMP-ES-024-203                  | -                   | S07F2V0022                   | SAT            | None  |
| F-A<br>F1.20           | <b>APR2-4505-2SI-R104</b><br>Piping Support         | NMP-ES-024-203                  | -                   | S07F2V0010                   | SAT            | None  |
| F-A<br>F1.20           | <b>APR2-4505-2SI-R127</b><br>Piping Support         | NMP-ES-024-203                  | -                   | S07F2V0004                   | SAT            | None  |

**Farley Unit 2  
Class 2 Components**

| <b>ASME Section XI</b> | <b>Examination/Area</b>                              | <b>Examination Procedure(s)</b> | <b>Cal Block(s)</b> | <b>Exam/Cal Sheet No(s).</b> | <b>Results</b> | <b>Remarks</b>  |
|------------------------|--|---------------------------------|---------------------|------------------------------|----------------|---|
| F-A<br>F1.20           | <b>APR2-4506A-2RHR-R74</b><br>Piping Support         | NMP-ES-024-203                  | -                   | S07F2V0009                   | SAT            | None  |
| C-C<br>C3.20           | <b>APR2-4506A-2RHR-R74 (W8)</b><br>Welded Attachment | NMP-ES-024-301                  | -                   | S07F2P0002                   | NRI            | None  |
| C-C<br>C3.20           | <b>APR2-4507-RHR-2A7 (WS)</b><br>Welded Attachment   | NMP-ES-024-301                  | -                   | S07F2P0001                   | NRI            | None  |
| F-A<br>F1.20           | <b>APR2-4509-2SI-R125</b><br>Piping Support          | NMP-ES-024-203                  | -                   | S07F2V0005                   | SAT            | None  |
| R-A<br>R1.11           | <b>APR2-4509A-36</b><br>Pipe to Valve                | NMP-ES-024-501                  | -                   | S07F2U0002<br>S07F2U0003     | NRI            | UT exam limited to 50% due to configuration.<br>Request for relief required.                      |
| R-A<br>R1.11           | <b>APR2-4509A-38</b><br>Pipe to Elbow                | NMP-ES-024-501                  | -                   | S07F2U0001                   | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4509A-47</b><br>Tee to Pipe                  | NMP-ES-024-501                  | -                   | S07F2U0004                   | NRI            | None  |
| R-A<br>R1.11           | <b>APR2-4511-2</b><br>Pipe to Valve                  | NMP-ES-024-501                  | -                   | S07F2U0009<br>S07F2U0010     | RI             | UT RI – Geometry.<br>UT exam limited to 50% due to configuration.<br>Request for relief required. |
| F-A<br>F1.20           | <b>APR2-4600-2SI-R48</b><br>Piping Support           | NMP-ES-024-203                  | -                   | S07F2V0013                   | SAT            | None  |
| C-C<br>C3.20           | <b>APR2-4603-SI-2A10 (WS)</b><br>Welded Attachment   | NMP-ES-024-301                  | -                   | S07F2P0007                   | NRI            | None  |
| F-A<br>F1.20           | <b>APR2-4615-SS-12394</b><br>Piping Support          | NMP-ES-024-203                  | -                   | S07F2V0038                   | SAT            | None  |

**Farley Unit 2  
Class 2 Components**

| <b>ASME Section XI</b> | <b>Examination/Area</b>                               | <b>Examination Procedure(s)</b> | <b>Cal Block(s)</b> | <b>Exam/Cal Sheet No(s).</b> | <b>Results</b> | <b>Remarks</b>  |
|------------------------|---|---------------------------------|---------------------|------------------------------|----------------|---|
| F-A<br>F1.40           | <b>APR2-5150-CS-1</b><br>Equipment Support            | NMP-ES-024-203                  | -                   | S07F2V0086                   | SAT            | None  |
| F-A<br>F1.40           | <b>APR2-5150-CS-2</b><br>Equipment Support            | NMP-ES-024-203                  | -                   | S07F2V0087                   | SAT            | None  |
| F-A<br>F1.40           | <b>APR2-5150-CS-3</b><br>Equipment Support            | NMP-ES-024-203                  | -                   | S07F2V0088                   | SAT            | None  |
| F-A<br>F1.40           | <b>APR2-5150-CS-4</b><br>Equipment Support            | NMP-ES-024-203                  | -                   | S07F2V0089                   | SAT            | None  |
| F-A<br>F1.40           | <b>APR2-5150-CS-5</b><br>Equipment Support            | NMP-ES-024-203                  | -                   | S07F2V0090                   | SAT            | None  |
| F-A<br>F1.40           | <b>APR2-5150-CS-6</b><br>Equipment Support            | NMP-ES-024-203                  | -                   | S07F2V0091                   | SAT            | None  |
| C-C<br>C3.20           | <b>Charging Pump Q2E21P002A</b><br>Welded Attachments | NMP-ES-024-301                  | -                   | -                            | RI<br>NRI      | Baseline exam (new installation).<br>PT RI – Code rejectable.<br>Repaired and re-examined.<br>Reference IER 006 |
| R-A                    | <b>VT-2 FOR RISK INFORMED</b>                         | NMP-ES-024-202                  | -                   | S07F2V0093                   | SAT            | VT-2 of small bore lines of Risk Informed segments.   |

# TAB D

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 (2R17) through the completion of the eighteenth maintenance/refueling outage (2R18). 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:

|                 |                |                |                    |
|-----------------|----------------|----------------|--------------------|
| B21-2070818201  | N11-2050682901 | P16-2050671301 | P16-2070824901     |
| B21-2070823301  | N11-2050683001 | P16-2050671501 | P16-2070902501     |
| B31-2061016801  | N11-2061335801 | P16-2052890401 | P16-M100189701     |
| E11-2061387601  | N11-2062579601 | P16-2053012801 | P16-M100663701     |
| E21-2052941901  | N21-2052899401 | P16-2060722701 | P16-M300341101     |
| E21-2062745801  | P12-2041167001 | P16-2061229101 | R43-DCP-C063531801 |
| E21-2070140201  | P16-2041669503 | P16-2062006501 | R43-S062792701     |
| E21-2070505701  | P16-2050666901 | P16-2063312701 | T52-2052827001     |
| E21-DCP-9120-01 | P16-2050667201 | P16-2063344002 | T52-2070804001     |
| G24-2062747101  | P16-2050671101 | P16-2070419701 |                    |

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|   |  | <b>Job Number</b><br>B31-2061016801  | <b>Sheet</b> 1 of 2 |                      |            |                                 |                              |
|---|--|--------------------------------------|---------------------|----------------------|------------|---------------------------------|------------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company)   | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | <b>Unit</b><br>FNP 2                 |                     |                      |            |                                 |                              |
|   |  | <b>Date</b><br>8/1/07                |                     |                      |            |                                 |                              |
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Outage and Modifications</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u>   |  | <b>Type Code Symbol Stamp</b><br>N/A |                     |                      |            |                                 |                              |
|   |  | <b>Authorization Number</b><br>N/A   |                     |                      |            |                                 |                              |
|   |  | <b>Expiration Date</b><br>N/A        |                     |                      |            |                                 |                              |
| <b>4. Identification of System</b><br>Q2B31, Pressurizer Surge Nozzle   |  |                                      |                     |                      |            |                                 |                              |
| <b>5. * See remarks</b><br>(a) Applicable Construction Code: _____ * _____ 19 * Edition _____ * Addenda, _____ * Code Case<br>(b) Applicable Section XI Utilized For Repair / Replacement Activity _____ 19 * Edition _____ * Addenda, _____ *<br>(c) Applicable Section XI Code Case(s) _____ *  |  |                                      |                     |                      |            |                                 |                              |
| <b>6. Identification of Components Repaired or Replaced and Replacement Components:</b>   |  |                                      |                     |                      |            |                                 |                              |
| Name of Component   | Name of Manufacturer   | Manufacturer Serial Number           | National Board No.  | Other Identification | Year Built | Corrected, Removed or Installed | ASME Code Stamped (Yes / No) |
| Pressurizer   | Westinghouse   | 1561                                 | W10793              | NA                   | 1975       | Corrected                       | Yes                          |
| Class I Piping  | Tubeco Inc.  | Q2B13-CCA-18                         | NA                  | B13                  | 1974       | Corrected                       | Yes                          |
|   |  |                                      |                     |                      |            |                                 |                              |
|   |  |                                      |                     |                      |            |                                 |                              |
|   |  |                                      |                     |                      |            |                                 |                              |
|   |  |                                      |                     |                      |            |                                 |                              |
|   |  |                                      |                     |                      |            |                                 |                              |
|   |  |                                      |                     |                      |            |                                 |                              |
|   |  |                                      |                     |                      |            |                                 |                              |
|   |  |                                      |                     |                      |            |                                 |                              |
|   |  |                                      |                     |                      |            |                                 |                              |
| <b>7. Description of Work</b><br>This report documents the Full Structural Weld Overlay applied to the Unit 2 Pressurizer Surge Line Nozzle per DCP 2061016801. Work Orders 2061016802 and 2070806801 and Traveler 900867-01 Rev 1 in compliance with Proposed Alternative ISI-GEN-ALT-06-03 pursuant to 10CFR50.55.a(a)(3)(i). Welding / Installation activities were performed by Westinghouse / PCI. |  |                                      |                     |                      |            |                                 |                              |
| <b>8. Test Conducted</b><br><input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Normal Operating Pressure <input type="checkbox"/> None <input type="checkbox"/> Other<br>Pressure <u>2246</u> PSI    Temperature <u>575</u> °F   |  |                                      |                     |                      |            |                                 |                              |

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                |              |
|----------------|--------------|
| Job Number     | Sheet 2 of 2 |
| B31-2061016801 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**

Construction Code for Pressurizer is Section III, 1968 Edition through the Summer 1970 Addenda.

Construction Code for the Surge Line Piping is Section III, 1971 Edition through the Summer 1971 Addenda.

Applicable Code for the Repair /Replacement Activity is Section III and XI, 2001 Edition through the 2003 Addenda.

Applicable Section XI Code Cases are N-504-2 and N-638-1.

### Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed *Ron Glenn* E.S./Mods Supv. Date 8/1/07  
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 NEW HAMPSHIRE and employed by H/SB CT of HARTFORD CT have inspected the components described in this Owner's Report during the period APRIL 12, 2007 to JUNE 12, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]* Commissions NH 734 AIN  
Inspector's Signature National Board, State, Province, and Endorsements

Date 8/1/07



# Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType : L1.52

|                 |              |
|-----------------|--------------|
| Job Number      | Sheet 2 of 2 |
| E21-DCP-9120-01 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 (4) 8"x4"x3/4" PLATES, (8) 5/8" x 3" A325 BOLTS AND (8) 5/8" HEX NUTS WERE USED TO MAKE A KICKER ON 2SI-R80 REMOVABLE.

2-SI-R80 IS PART OF GANG SUPPORT WHICH ALSO INCLUDES SUPPORT 2SI-R118.

SEE WO 2050912015 FOR APPLICABLE MATERIAL ISSUE FORMS

## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ron Coleran ES/MODS Supervisor Date 5/23/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period MARCH 29, 2007 to MAY 23, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NB# 12564 NH 734 AIN  
 National Board, State, Province, and Endorsements

Date 5/23/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|   |  | <b>Job Number</b><br>R43 - DCP C063531801 | <b>Sheet</b> 1 of 2 |                      |            |                                    |                              |
|---|--|---|---------------------|----------------------|------------|------------------------------------|------------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company)   | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | <b>Unit</b><br>FNP 1                      |                     |                      |            |                                    |                              |
|   |  | <b>Date</b><br>March 21, 2007             |                     |                      |            |                                    |                              |
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Outage and Modifications</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u>   |  | <b>Type Code Symbol Stamp</b><br>N/A      |                     |                      |            |                                    |                              |
|   |  | <b>Authorization Number</b><br>N/A        |                     |                      |            |                                    |                              |
|   |  | <b>Expiration Date</b><br>N/A             |                     |                      |            |                                    |                              |
| <b>4. Identification of System</b><br>Diesel Emergency Powered Generator  |  |   |                     |                      |            |                                    |                              |
| <b>5.</b><br>(a) Applicable Construction Code: <u>ASME Section III,</u> 19 <u>71</u> Edition <u>N/A</u> Addenda, <u>N/A</u> Code Case<br>(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>89</u> Edition <u>N/A</u> Addenda, <u>N/A</u> Code Case  |  |   |                     |                      |            |                                    |                              |
| <b>6. Identification of Components Repaired or Replaced and Replacement Components:</b>   |  |   |                     |                      |            |                                    |                              |
| Name of Component   | Name of Manufacturer   | Manufacturer Serial Number                | National Board No.  | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
| Tube Bundle   | ITT Standard   | 94Z98628-04                               | N/A                 | P.O. QP94-1673       | 1995       | Replaced                           | No                           |
| Tube Bundle   | Energy Steel & Supply Company  | N33025-1                                  | N/A                 | P.O. QP050011        | 2007       | Replacement                        | Yes                          |
|   |  |   |                     |                      |            |                                    |                              |
|   |  |   |                     |                      |            |                                    |                              |
|   |  |   |                     |                      |            |                                    |                              |
|   |  |   |                     |                      |            |                                    |                              |
|   |  |   |                     |                      |            |                                    |                              |
|   |  |   |                     |                      |            |                                    |                              |
| <b>7. Description of Work</b><br>The Intercooler Water Heat Exchanger (Q1R43H0505) tube bundle on the 1B Diesel Generator was determined to be in need of replacement. A new tube bundle was installed. Reference Work Order 1070257201 issued under warehouse stock number %00167674. Additionally the inlet end of the tube bundle had a Plasticor coating applied under work order 1070154801. |  |   |                     |                      |            |                                    |                              |
| <b>8. Test Conducted</b><br><input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Normal Operating Pressure <input type="checkbox"/> None <input type="checkbox"/> Other<br>Pressure _____ PSI    Temperature _____ °F  |  |   |                     |                      |            |                                    |                              |

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                      |              |
|----------------------|--------------|
| Job Number           | Sheet 2 of 2 |
| R43 - DCP C063531801 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Note: The replacement tube bundle has been fabricated with new tubes using admiralty brass tubes which are different from the existing aluminum brass tubes. DCP C063531801 provides the design change which allows for the use of this alternate tube material in the fabrication of the large diesel generator intercooler water heat exchanger tube bundle assemblies.

## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Rm Blum ES-Modifications Manager Date 3/21/07  
 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 NEW HAMPSHIRE and employed by HSBCT of HARTFORD, CONNECTICUT have inspected the components described in this Owner's Report during the period MARCH 20, 2007 to MARCH 21, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH 734 ANI  
 National Board, State, Province, and Endorsements

Date 3/21/07

**FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS\***  
**As Required by the Provisions of the ASME Code, Section III, Division 1**

1. Manufactured and certified by Energy Steel & Supply Co., 2715 Paldan Drive, Auburn Hills, MI 48326  
(Name and address of N Certificate Holder)

2. Manufactured for Alabama Power Company, 7388 N. State Hwy. 95, Columbia, AL 36319  
(Name and address of Purchaser)

3. Location of installation Farley Nuclear Plant, 7388 N. State Hwy 95, Columbia, AL 36319  
(Name and address)

4. Type Horizontal Heat Exchanger Tube Bd! N33025-1 N/A 1617 Rev. 1 N/A 2007  
(horiz. or vert.) (tank, jacketed, heat ex.) (Cart. Holder's serial no.) (CRN) (drawing no.) (Mat'l. Bd. no.) (year built)

5. ASME Code, Section III, Division 1: 1971 Edition None ND Class 3 N/A  
(edition) (addenda date) (class) (Code Case no.)

*Items 6-10 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.*

6. Shell: N/A N/A N/A N/A N/A N/A  
(mat'l spec. no.) (tensile strength) (nom. thickness (in.)) (min. design thickness (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))

7. Seams: N/A N/A N/A N/A N/A N/A N/A N/A  
(long.) (HT<sup>1</sup>) (RT) (left % (right)) (HT<sup>1</sup>) (RT) (no. of courses)

8. Heads: N/A N/A N/A N/A  
((a) mat'l spec. no.) (tensile strength) ((b) mat'l spec. no.) (tensile strength)

|     | Location (top, bottom, ends) | Thickness | Corrosion Allowance | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Pressure (convex or concave) |
|-----|------------------------------|-----------|---------------------|--------------|----------------|------------------|--------------------|----------------------|---------------|--------------------------------------|
| (a) | N/A                          | N/A       | N/A                 | N/A          | N/A            | N/A              | N/A                | N/A                  | N/A           | N/A                                  |
| (b) | N/A                          | N/A       | N/A                 | N/A          | N/A            | N/A              | N/A                | N/A                  | N/A           | N/A                                  |

If removable, bolts used N/A N/A  
(mat'l spec. no., size, quantity) (describe or attach sketch)

9. Jacket closure: N/A  
(Describe as open & weld, bar, etc. if bar, give dimensions, describe or sketch)

10. Design pressure<sup>2</sup> N/A at max. temp. N/A Min. pressure-test temp. N/A Pneu., hydro., or comb. test pressure N/A  
(psi) (°F) (°F) (psi)

*Items 11 and 12 to be completed for tube sections.*

11. Tubesheets: SB-171 C36500 17.25 .938 Bolted  
(stationary mat'l spec. no.) (dia. in. (subject to press.)) (thickness (in.)) (attachment (welded, bolted))

SB-171 C36500 15.125 .9375 Rolled Tubes  
(floating mat'l spec. no.) (dia. (in.)) (thickness (in.)) (attachment)

12. Tubes: SB-111 C44300 0.625 .049 306 Straight  
(mat'l spec. no.) (OD (in.)) (thickness (inches or gage)) (no.) (type (straight or U))

*Items 13 to 16 inclusive to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.*

13. Shell: N/A N/A N/A N/A N/A N/A  
(mat'l spec. no.) (tensile strength) (nom. thickness (in.)) (min. design thickness (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))

14. Seams: N/A N/A N/A N/A N/A N/A N/A N/A  
(long, welded, dbl. single) (HT<sup>1</sup> (yes or no)) (RT) (left % (right)) (HT<sup>1</sup>) (RT) (no. of courses)

15. Heads: N/A N/A N/A N/A N/A N/A  
((a) mat'l spec. no.) (tensile strength) ((b) mat'l spec. no.) (tensile strength) ((c) mat'l spec. no.) (tensile strength)

| Location              | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Pressure (convex or concave) |
|-----------------------|-----------|--------------|----------------|------------------|--------------------|----------------------|---------------|--------------------------------------|
| (a) Top, bottom, ends | N/A       | N/A          | N/A            | N/A              | N/A                | N/A                  | N/A           | N/A                                  |
| (b) Channel           | N/A       | N/A          | N/A            | N/A              | N/A                | N/A                  | N/A           | N/A                                  |
| (c) Floating          | N/A       | N/A          | N/A            | N/A              | N/A                | N/A                  | N/A           | N/A                                  |

If removable, bolts used N/A N/A  
(mat'l spec. no., size, quantity) (describe or attach sketch)

16. Design pressure<sup>2</sup> 150 at 300 Min. pressure-test temp. 225 Pneu., hydro., or comb. test pressure 225  
(psi) (°F) (°F) (psi)

<sup>1</sup> If postweld heat treated. <sup>2</sup> List other internal or external pressure with coincident temperature when applicable.

\* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and number of sheets is recorded at top of this form.

Certificate Holder's Serial No. N33025-1

17. Nozzles, inspection and safety valve openings:

| Purpose<br>(inlet, outlet, drain, etc.) | Quantity | Dia. or Size | Type | How Attached | Mat'l | Thickness | Reinforcement Material | Location |
|---|----------|--------------|------|--------------|-------|-----------|------------------------|----------|
| N/A                                     | N/A      | N/A          | N/A  | N/A          | N/A   | N/A       | N/A                    | N/A      |
|   |          |              |      |              |       |           |                        |          |
|   |          |              |      |              |       |           |                        |          |
|   |          |              |      |              |       |           |                        |          |
|   |          |              |      |              |       |           |                        |          |

18. Supports: Skirt N/A Lugs N/A Legs N/A Other N/A Attached N/A  
(yes or no) (quantity) (quantity) (describe) (where and how)  
 19. Remarks: Alabama Power PO No. QP050011/002, Design Specification FM-S-06-002 Version 1.0, Design Report MPR-3004 Rev. 0, Tube Sheet Material IAW Section II Part B 2001 Edition 2003 Addenda.

**CERTIFICATION OF DESIGN**

Design specification certified by An Ngoc Nguyen P.E. State Alabama Reg. no. 15301  
 Design report certified by Patrick J Butler P.E. State Virginia Reg. no. 0402023815

**CERTIFICATE OF SHOP COMPLIANCE**

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules for construction of the ASME Code, Section III, Division 1.  
 N Certificate of Authorization No. N-2994 Expires 6/21/2008  
 Date 2/24/07 Name Energy Steel & Supply Co. Signed [Signature]  
(N Certificate Holder) (Authorized representative)

**CERTIFICATE OF SHOP 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 Michigan and employed by HSB CT of Hartford, CT have inspected the component described in this Data Report on FD-24-307, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this component in accordance with the ASME Code, Section III, Division 1.  
 By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data 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.  
 Date 2/24/2007 Signed [Signature] Commissions MIG10  
(Authorized Nuclear Inspector) (Nat'l Bd. Incl. endorsements) and state or prov. and no.)

**CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE**

We certify that the statements on this report are correct and that the field assembly construction of all parts of this nuclear vessel conforms to the rules of construction of the ASME Code, Section III, Division 1.  
 N Certificate of Authorization No. \_\_\_\_\_ Expires \_\_\_\_\_  
 Date \_\_\_\_\_ Name \_\_\_\_\_ Signed \_\_\_\_\_  
(N Certificate Holder) (Authorized representative)

**CERTIFICATE OF FIELD ASSEMBLY 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 \_\_\_\_\_ of \_\_\_\_\_ have compared the statements in this Data Report with the described component and state that parts referred to as data items \_\_\_\_\_, not included in the certificate of shop inspection, have been inspected by me on \_\_\_\_\_ and that to the best of my knowledge and belief the Certificate Holder has constructed and assembled this component in accordance with the ASME Code, Section III, Division 1.  
 By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data 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.  
 Date \_\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Nuclear Inspector) (Nat'l Bd. Incl. endorsements) and state or prov. and no.)

# Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType: L1.52

|                              |              |
|------------------------------|--------------|
| Job Number<br>E21-2062745801 | Sheet 1 of 2 |
|------------------------------|--------------|

|  |   |                        |
|--|---|------------------------|
| 1. Owner<br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | 2. Plant<br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2          |
|  |   | Date<br>April 20, 2007 |

|  |                               |
|--|-------------------------------|
| 3. Work performed by<br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|  | Authorization Number<br>N/A   |
|  | Expiration Date<br>N/A        |

4. Identification of System  
**HIGH HEAD SAFETY INJECTION/CVCS SYSTEM**

5.  
 (a) Applicable Construction Code: SEE NOTE 19      Edition      Addenda.      Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements. 19 89 Edition N/A Addenda. N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| MECH. SNUBBER     | PACIFIC SCIENTIFIC   | 2532                       | N/A                | UNKNOWN              | 1978       | REPLACED                           | NO                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
| HYD.SNUBBER       | LISEGA               | 30500420/002               | N/A                | QP050939             | 2006       | REPLACEMENT                        | NO                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

7. Description of Work  
 SNUBBER SS-12184 WAS REPLACED AS A SCHEDULED UPGRADE. REF: TRANSACTION NUMBER 103782  
 VT-3 PERFORMED ON REPLACEMENT SNUBBER

8. Test Conducted  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType: L1.52

|                |              |
|----------------|--------------|
| Job Number     | Sheet 2 of 2 |
| E21-2062745801 |              |

9. Remarks (Applicable Manufacturer's Data Reports to be attached)  
**SUPPORTS DESIGNED TO AICS-1969 AND WELDED TO AWS D1.1-86.**

**REFERENCE EQUIVALENCY DETERMINATION (LED) 96-0-0225. REV. 1**

## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ron [Signature] Maintenance Manager Date 5/22/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 19, 2007 to MAY 24, 2007 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 loss of any kind arising from or connected with this inspection.

[Signature] Commissions NH734 AIN  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 5/24/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                              |              |
|------------------------------|--------------|
| Job Number<br>G24-2062747101 | Sheet 1 of 2 |
|------------------------------|--------------|

|  |   |                       |
|--|---|-----------------------|
| 1. Owner<br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | 2. Plant<br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2         |
|  |   | Date<br>APRIL 18,2007 |

|  |                               |
|--|-------------------------------|
| 3. Work performed by<br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|  | Authorization Number<br>N/A   |
|  | Expiration Date<br>N/A        |

4. Identification of System  
**STEAM GENERATOR BLOWDOWN SYSTEM**

5.  
 (a) Applicable Construction Code: SEE NOTE 19      Edition      Addenda.      Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements. 19 89 Edition N/A Addenda. N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component | Name of Manufacturer  | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|-----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| MECH<br>SNUBBER   | PACIFIC<br>SCIENTIFIC | 5490                       | N/A                | FNP-2-29             | 1980       | REPLACED                           | NO                           |
|                   |                       |                            |                    |                      |            |                                    |                              |
|                   |                       |                            |                    |                      |            |                                    |                              |
| HYD.SNUBBER       | LISEGA                | 30400001/77                | N/A                | QP050939             | 2006       | REPLACEMENT                        | NO                           |
|                   |                       |                            |                    |                      |            |                                    |                              |
|                   |                       |                            |                    |                      |            |                                    |                              |
|                   |                       |                            |                    |                      |            |                                    |                              |
|                   |                       |                            |                    |                      |            |                                    |                              |
|                   |                       |                            |                    |                      |            |                                    |                              |

7. Description of Work  
 REPLACEMENT SNUBBER SS12889 WAS REPLACED DUE TO A SCHEDULED UPGRADE: REFERENCE TRANSACTION NUMBER 103798 VT-3 WAS PERFORMED ON REPLACEMENT SNUBBER

8. Test Conducted  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType : L1.52

|                 |              |
|-----------------|--------------|
| Job Number      | Sheet 2 of 2 |
| G24--2062747101 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
**SUPPORTS DESIGNED TO AICS-1969 AND WELDED TO AWS D1.1-86.**

**REFERENCE EQUIVALENCY DETERMINATION (LED) 96-0-0225. REV. 1**

### Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ron Eyle Maintenance Manager Date 5/23/07  
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 NEW HAMPSHIRE and employed by H513 CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 10, 2007 to MAY 24, 2007, 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 loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NH734 AIN  
National Board, State, Province, and Endorsements

Date 5/24/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2070824901 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                     |
|---|--|---------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|   |  | Date<br>May 7, 2007 |

|   |                                      |
|---|--------------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | <b>Type Code Symbol Stamp</b><br>N/A |
|   | <b>Authorization Number</b><br>N/A   |
|   | <b>Expiration Date</b><br>N/A        |

**4. Identification of System**  
 Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 68 Edition Winter 1970 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Stud              | Darling Valve        | 3261713                    | N/A                | FNP2-18              | 1973       | Replaced                           | Yes                          |
| Nut               | Darling Valve        | 6058562                    | N/A                | FNP2-18              | 1973       | Replaced                           | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
| Stud              | Nova                 | 230636                     | N/A                | QP050669             | 2005       | Replacement                        | No                           |
| Nut               | Nuts Inc.            | N0414                      | N/A                | FNP2237              | 1977       | Replacement                        | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 One of the body to bonnet studs of Q2P16V0069B was damaged due to corrosion. This stud and nut was replaced with a new stud and nut. Ref: Transaction # 113459

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                   |                     |
|-------------------|---------------------|
| <b>Job Number</b> |                     |
| P16 - 2070824901  | <b>Sheet 2 of 2</b> |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Replaced stud and nut were originally stamped as a part of valve Serial Number E-5314-10-2.

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## Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed Ran Jahn Maintenance Manager Date 5/22/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 15, 2007 to MAY 24, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH 734 AIN  
 National Board, State, Province, and Endorsements

Date 5/24/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>N11 - 2062579601 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                     |
|---|--|---------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|   |  | Date<br>May 6, 2007 |

|   |                                      |
|---|--------------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | <b>Type Code Symbol Stamp</b><br>N/A |
|   | <b>Authorization Number</b><br>N/A   |
|   | <b>Expiration Date</b><br>N/A        |

|   |
|---|
| <b>4. Identification of System</b><br>Main Steam System |
|---|

|  |
|--|
| <b>5.</b><br>(a) Applicable Construction Code: <u>ASME Section III,</u> 19 <u>71</u> Edition <u>Summer 1972</u> Addenda, <u>N/A</u> Code Case<br>(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>89</u> Edition <u>N/A</u> Addenda, <u>N/A</u> Code Case |
|--|

| 6. Identification of Components Repaired or Replaced and Replacement Components: |                      |                            |                    |                      |            |                                    |                              |
|--|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Name of Component  | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
| Primary Plug   | Fisher/Cartech       | 57512-5                    | N/A                | FNP2-57              | 1981       | Replaced                           | Yes                          |
| Pilot Plug   | Fisher.Cartech       | 29991-1                    | N/A                | FNP2-57              | 1981       | Replaced                           | Yes                          |
|  |                      |                            |                    |                      |            |                                    |                              |
| Primary Plug   | Fisher               | 272319-1E                  | N/A                | QP070179             | 2007       | Replacement                        | Yes                          |
| Pilot Plug   | Fisher               | AD6919-1                   | N/A                | QP030885             | 2004       | Replacement                        | Yes                          |
|  |                      |                            |                    |                      |            |                                    |                              |
|  |                      |                            |                    |                      |            |                                    |                              |
|  |                      |                            |                    |                      |            |                                    |                              |
|  |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 During investigation of valve internals on Q2N11PV3711B it was determined that the primary plug and pilot plug needed to be replaced. Ref: Transaction # 112876

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| N11 - 2062579601 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Original primary plug and pilot plug were stamped as a part of valve Serial # 5653513-515.

QC97-0-0476 approves the alternate configuration and material differences in the internal valve parts based on Fisher Valve Co. recommendations.

## Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed *Ron Taylor* Maintenance Manager Date 5/22/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 17, 2007 to MAY 29, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]*  
 Inspector's Signature

Commissions NH 734 AIN  
 National Board, State, Province, and Endorsements

Date 5/24/07

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to exceed One Day's Production

*NEW  
PRIMARY  
PLUG*

1. Manufactured and certified by FISHER CONTROLS INT'L LLC., 757 OLD CLEMSON ROAD, COLUMBIA, SC 29229  
(name and address of NPT Certificate Holder)

2. Manufactured for Alabama Power Company, Post Office Box 1295, Birmingham, Alabama, 35201  
(name and address of purchaser)

3. Location of installation Alabama Power Company Farley Nuclear Plant, 7388 N. State Highway 95, Columbia, Alabama, 36319  
(name and address)

4. Type 55A5940 Rev. C SA-479 S31600/COCR-A 75 ksi N/A 2007  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III: 1971 S'72 2 N/A  
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)

7. Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

|      | Part or Appurtenance<br>Serial Number | Heat Number   |
|------|---------------------------------------|---------------|
| (1)  | 272319-1A                             | 242445/8AH30B |
| (2)  | 272319-1B                             | 242445/8AH30B |
| (3)  | 272319-1C                             | 242445/8AH30B |
| (4)  | 272319-1D                             | 242445/8AH30B |
| (5)  | 272319-1E                             | 242445/8AH30B |
| (6)  | 272319-1F                             | 242445/8AH30B |
| (7)  | 272319-1G                             | 242445/8AH30B |
| (8)  |                                       |               |
| (9)  |                                       |               |
| (10) |                                       |               |
| (11) |                                       |               |
| (12) |                                       |               |
| (13) |                                       |               |
| (14) |                                       |               |
| (15) |                                       |               |
| (16) |                                       |               |
| (17) |                                       |               |
| (18) |                                       |               |
| (19) |                                       |               |
| (20) |                                       |               |
| (21) |                                       |               |
| (22) |                                       |               |
| (23) |                                       |               |
| (24) |                                       |               |
| (25) |                                       |               |

|      | Part or Appurtenance<br>Serial Number | Heat Number |
|------|---------------------------------------|-------------|
| (26) |                                       |             |
| (27) |                                       |             |
| (28) |                                       |             |
| (29) |                                       |             |
| (30) |                                       |             |
| (31) |                                       |             |
| (32) |                                       |             |
| (33) |                                       |             |
| (34) |                                       |             |
| (35) |                                       |             |
| (36) |                                       |             |
| (37) |                                       |             |
| (38) |                                       |             |
| (39) |                                       |             |
| (40) |                                       |             |
| (41) |                                       |             |
| (42) |                                       |             |
| (43) |                                       |             |
| (44) |                                       |             |
| (45) |                                       |             |
| (46) |                                       |             |
| (47) |                                       |             |
| (48) |                                       |             |
| (49) |                                       |             |
| (50) |                                       |             |

10. Design Pressure 1085 psi. Temp. 600 °F. Hydro. test pressure \_\_\_\_\_ at temp. °F  
(when applicable)

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

FORM N-2 (back)

Mfr. Serial No. 272319-1A thru 1G

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State                      Reg. no.                       
(when applicable)

Design report\* certified by N/A P.E. State                      Reg. no.                       
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Primary Plugs  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-3156 Expires 11-27-07

Date 4/27/2007 Name FISHER CONTROLS INT'L LLC Signed [Signature]  
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or Province of North Carolina  
and employed by Hartford Steam Boiler of CT

of Hartford, CT have inspected these items described in this Data Report on 27 APRIL 2007 and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has  
been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report.  
Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected  
with this inspection.

Date 4/27/07 Signed [Signature] Commissions NC # 1073  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

*NEW PILOT  
PRIMARY  
PLUG*

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to exceed One Day's Production

Pg. 1 of 1

25-N580155272 IT. 1

1. Manufactured and certified by FISHER CONTROLS INT'L LLC, 205 SOUTH CENTER STREET, MARSHALLTOWN, IA. 50158  
(name and address of NPT Certificate Holder)
2. Manufactured for ALABAMA POWER CO., P.O. BOX 2641, BIRMINGHAM, AL. 35291  
(name and address of purchaser)
3. Location of installation FARLEY PLANT, 7388 N. STATE HIGHWAY 95, COLUMBIA, AL. 36319  
(name and address)
4. Type 

|                                       |   |                                     |                     |
|---------------------------------------|---|-------------------------------------|---------------------|
| <u>11B9600 REV A</u><br>(drawing no.) | <u>SB166 N06600</u><br>(mat'l. spec. no.) | <u>80 KSI</u><br>(tensile strength) | <u>N/A</u><br>(CRN) |
|---------------------------------------|---|-------------------------------------|---------------------|

2004  
(year built)
5. ASME Code, Section III. 

|                          |                                      |                     |                               |
|--------------------------|--------------------------------------|---------------------|-------------------------------|
| <u>1971</u><br>(edition) | <u>SUMMER 1972</u><br>(addenda date) | <u>2</u><br>(class) | <u>N/A</u><br>(Code Case no.) |
|--------------------------|--------------------------------------|---------------------|-------------------------------|
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.)      Revision N/A      Date N/A
7. Remarks: DESIGN: ASME B&PVC, SECT. III, 1971 EDITION, SUMMER 1972 ADDENDA, CLASS 2  
OTHER: ASME B&PVC, SECT. III, 1989 EDITION, NO ADDENDA, CLASS 2
8. Nom. thickness (in.) N/A      Min. design thickness (in.) N/A      Dia. ID (ft & in.) N/A      Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

|      | Part or Appurtenance Serial Number | Heat Number  |
|------|------------------------------------|--------------|
| (1)  | <u>AD6919-1</u>                    | <u>44830</u> |
| (2)  |                                    |              |
| (3)  |                                    |              |
| (4)  |                                    |              |
| (5)  |                                    |              |
| (6)  |                                    |              |
| (7)  |                                    |              |
| (8)  |                                    |              |
| (9)  |                                    |              |
| (10) |                                    |              |
| (11) |                                    |              |
| (12) |                                    |              |
| (13) |                                    |              |
| (14) |                                    |              |
| (15) |                                    |              |
| (16) |                                    |              |
| (17) |                                    |              |
| (18) |                                    |              |
| (19) |                                    |              |
| (20) |                                    |              |
| (21) |                                    |              |
| (22) |                                    |              |
| (23) |                                    |              |
| (24) |                                    |              |
| (25) |                                    |              |

|      | Part or Appurtenance Serial Number | Heat Number |
|------|------------------------------------|-------------|
| (26) |                                    |             |
| (27) |                                    |             |
| (28) |                                    |             |
| (29) |                                    |             |
| (30) |                                    |             |
| (31) |                                    |             |
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| (45) |                                    |             |
| (46) |                                    |             |
| (47) |                                    |             |
| (48) |                                    |             |
| (49) |                                    |             |
| (50) |                                    |             |

10. Design Pressure 1085 psi.      Temp. 600 °F.      Hydro. test pressure N/A at temp. °F  
(when applicable)

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

FORM N-2 (back)

Mfr. Serial No. AD6919-1

CERTIFICATION OF DESIGN

Design specifications certified by SABIN CROCKER JR P.E. State MA Reg. no. 2504  
 (when applicable)

Design report\* certified by N/A P.E. State N/A Reg. no. N/A  
 (when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) PILOT PLUG/CONV SET  
 conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. 1930 Expires 11-11-2004

Date 9-30-04 Name FISHER CONTROLS INT'L LLC Signed [Signature]  
 (NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP 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 Iowa  
 and employed by Hartford Steam Boiler of CT  
 of Hartford, CT have inspected these items described in this Data Report on 9-30-04 and state that to the  
 best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has  
 been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report.  
 Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected  
 with this inspection.

Date 9-30-04 Signed [Signature] Commissions 822 IA  
 (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2052890401 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                     |
|---|--|---------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|   |  | Date<br>May 4, 2007 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 74 Edition Summer 1975 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Bonnet            | Vogt                 | 9E0531                     | N/A                | QP-1564              | 1987       | Repalced                           | Yes                          |
| Cap Screws        | Vogt                 | 867129                     | N/A                | QP-1564              | 1987       | Replaced                           | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
| Bonnet            | Larson               | 47BDY                      | N/A                | QP050266             | 2005       | Replacement                        | Yes                          |
| Cap Screws        | Mackson              | 111F                       | N/A                | QP050266             | 2005       | Replacement                        | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 Valve Q2P16V779 was binding when attempting to close the valve. The bonnet and cap screws were replaced with a new bonnet and cap screws.  
 Ref: Transaction # 105475

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| P16 - 2052890401 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 The new bonnet and cap screws were removed from a complete valve Serial Number 47BDY.

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## Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date \_\_\_\_\_ N/A

Signed Ron Egle Maintenance Manager Date 5/22/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD CT have inspected the components described in this Owner's Report during the period MAY 3, 2007 to MAY 29, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH 734 AIN  
 National Board, State, Province, and Endorsements

Date 5/29/07

**FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\***

As Required by the Provisions of the ASME Code , Section III, Div. 1

1. Manufactured by Flowserve Corporation, 1900 S. Saunders St., Raleigh, NC 27603  
(Name and Address of N Certificate Holder)

2. Manufactured for Alabama Power Company/PO Box 2641 Birmingham, AL 352910000  
(Name and Address of Purchaser or Owner)

3. Location of Installation Alabama Power Company/Farley Nuclear Plant/7388 North State Hwy. 95, Columbia, AL 36319  
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"  
(inch) (inch)

|      | (a) Model No.<br>Series No.<br>or Type | (b) N Certificate<br>Holder's<br>Serial No. | (c) Canadian<br>Registration<br>No. | (d) Drawing<br>No. | (e) Class | (f) Nat'l.<br>Bd. No. | (g) Year<br>Built |
|------|--|---|-------------------------------------|--------------------|-----------|-----------------------|-------------------|
| (1)  | SW12401(F316)JT3                       | 46BDY                                       | N/A                                 | 04-29184-01 Rev. 0 | 3         | N/A                   | 2005              |
| (2)  | SW12401(F316)JT3                       | 47BDY                                       | N/A                                 | 04-29184-01 Rev. 0 | 3         | N/A                   | 2005              |
| (3)  | SW12401(F316)JT3                       | 48BDY                                       | N/A                                 | 04-29184-01 Rev. 0 | 3         | N/A                   | 2005              |
| (4)  |  |   |                                     |                    |           |                       |                   |
| (5)  |  |   |                                     |                    |           |                       |                   |
| (6)  |  |   |                                     |                    |           |                       |                   |
| (7)  |  |   |                                     |                    |           |                       |                   |
| (8)  |  |   |                                     |                    |           |                       |                   |
| (9)  |  |   |                                     |                    |           |                       |                   |
| (10) |  |   |                                     |                    |           |                       |                   |

5. 2" SW12401 (F316) JT3  
(Brief description of service for which equipment was designed) 34735

6. Design Conditions 895 psi 800 °F or Valve Pressure Class 600 (1)  
(Pressure) (Temperature)

7. Cold Working Pressure 1440 psi at 100 °F.

8. Pressure Retaining Pieces

| Mark No.            | Material Spec. No. | Manufacturer | Remarks |
|---------------------|--------------------|--------------|---------|
| <b>(a) Castings</b> |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
| <b>(b) Forgings</b> |                    |              |         |
| 85587               | SA182 F316         | Larson       | Body    |
| 85588               | SA182 F316         | Larson       | Bonnet  |
| 21407               | SA479 T410         | Dubose       | Gate    |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |

(1) For manually operated valves only

\*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

| Mark No.        | Material Spec. No. | Manufacturer | Remarks       |
|-----------------|--------------------|--------------|---------------|
| (c) Bolting     |                    |              |               |
| 111F            | SA564-630-H1100    | Mackson      | Hex Head Bolt |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
| (d) Other Parts |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |
|                 |                    |              |               |

9. Hydrostatic test 2175 psi. Disk Differential test pressure 1600 psi.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump, or valve, conforms of the ASME Code for Nuclear Power Plant Components. Section III, Div. 1., to the rules of construction 1974

Addenda Summer 1975, Code Case No. N/A Date 10-31-05

Signed Flowserve Corp. by [Signature]  
(N Certificate Holder)

Our ASME Certificate of Authorization No. N-1562 to use the N symbol expires 11-26-06  
(N) (Date)

**CERTIFICATION OF DESIGN**

Design information on file at Flowserve Corporation Raleigh, NC

Stress analysis report (Class 1 only) on file at \_\_\_\_\_

Design specifications certified by (1) An Nguyen

PE State AL Reg. No. 15301

Stress analysis certified by (1) \_\_\_\_\_

PE State \_\_\_\_\_ Reg. No. \_\_\_\_\_

(1) Signature not required. List name only.

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSB CT of Hartford Connecticut have inspected the pump, or valve, described in this Data Report on 10131105, and state that, to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with ASME Code, Section III. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this s Data 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.

Date 10/31/05

Signed [Signature] Commissions NE#1421  
(Inspector) (Nat'l Bd., State, Prov. and No.)

# Form NIS-2 Owner's Report for Repairs or Replacements

RType: L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>E21 - 2052941901 | Sheet 1 of 2 |
|--------------------------------|--------------|

|  |   |                     |
|--|---|---------------------|
| 1. Owner<br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | 2. Plant<br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|  |   | Date<br>May 1, 2007 |

|  |                               |
|--|-------------------------------|
| 3. Work performed by<br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|  | Authorization Number<br>N/A   |
|  | Expiration Date<br>N/A        |

4. Identification of System  
High Head Safety Injection / Chemical Volume And Control System

5.  
 (a) Applicable Construction Code: ASME Section III. 19 71 Edition Winter 1971 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements. 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Valve Bonnet      | Kerotest             | APH                        | N/A                | QP4093               | 1993       | Replaced                           | Yes                          |
| Valve Bonnet      | Flowsolve            | D90051A                    | N/A                | QP030413             | 2003       | Replacement                        | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

7. Description of Work  
Valve Q2E21V144A was found with one packing adjustment nut missing and the other bent. The entire bonnet assembly was replaced with an new bonnet assembly. Ref: Transaction # 105600

8. Test Conducted  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType : L1.52

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| E21 - 2052941901 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Replaced bonnet assembly was stamped as a part of complete valve assembly AHM5-2 which was installed on WO M96005892.

Replacement bonnet assembly was stamped as a part of complete valve assembly 96AXR.

### Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date \_\_\_\_\_ N/A

Signed *[Signature]* Maintenance Manager Date 5/22/07  
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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD CT have inspected the components described in this Owner's Report during the period APRIL 13, 2007 to MAY 19, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]* Commissions NA 734 AIN  
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/29/07





# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>N11 - 2050682901 | Sheet 1 of 2 |
|--------------------------------|--------------|

|  |   |                     |
|--|---|---------------------|
| 1. Owner<br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | 2. Plant<br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|  |   | Date<br>May 7, 2007 |

|  |                               |
|--|-------------------------------|
| 3. Work performed by<br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|  | Authorization Number<br>N/A   |
|  | Expiration Date<br>N/A        |

4. Identification of System  
Main Steam System

5.  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1973 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Disc Assembly     | Atwood and Morrell   | FNPSN12                    | N/A                | 22601                | 1984       | Replaced                           | No                           |
| Disc Assembly     | Atwood and Morrell   | FNPSN8                     | N/A                | QP050618             | 2006       | Replacement                        | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

7. Description of Work  
The disc assembly for Q2N11V001B was replaced with a refurbished disc assembly as a part of a regularly scheduled PM. Ref: Transaction # 110518

8. Test Conducted  
 Hydrostatic    Pneumatic    Normal Operating Pressure    None    Other  
 Pressure \_\_\_\_\_ PSI   Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType: L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       |              |
| N11 - 2050682901 | Sheet 2 of 2 |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 New disc assembly was originally purchased on FNP-191 and refurbished on purchase order QP050618.

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## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ron Jyle Maintenance Manager Date 5/21/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 9, 2007 to MAY 29, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH 734 AIN  
 National Board, State, Province, and Endorsements

Date 5/29/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2053012801 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                        |
|---|--|------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2          |
|   |  | Date<br>April 19, 2007 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 74 Edition Winter 1974 Addenda. N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda. N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Disc              | Atwood & Morrill     | 1-761                      | N/A                | FNP2-288             | 1976       | Replaced                           | Yes                          |
| Disc              | Weir Valves          | 2                          | N/A                | QP060786             | 2006       | Replacement                        | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 Q2P16V679 was previously worked on WO 2052906801. It was noted at that time that the disc was hanging low and was in need of replacement. A replacement disc was not available at the time. A new disc was installed on this work order. Ref: Transaction # 105455

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F



**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***

\* Corrected Copy

As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 2

1. Manufactured and certified by Weir Valves & Controls, USA Inc., 285 Canal Street Salem, MA 01970  
(name and address of NPT Certificate Holder)
2. Manufactured for Alabama Power, P.O. Box 2641, Birmingham, AL 35291-0015  
(name and address of Purchaser)
3. Location of installation Farley Nuclear Plant, 7388 N. State Highway 95, Columbia, AL 36319  
(name and address)
4. Type: \*C23420, Rev. 1      SA 516, GR: 70      77.0 KSI      N/A      2006  
(drawing no.)                      (mat'l. spec. no.)                      (tensile strength)                      (CRN)                      (year built)
5. ASME Code, Section III, Division 1: 1974      WINTER 74      3      N/A  
(edition)                      (addenda date)                      (class)                      (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Cust. Item 01 WVC Item 10, Disc Weldment, A&M P/N 43311-018-2002-000 QLA  
(WVC S.O. 75533) \*Dwg. Prepared by A&M. This certification meets the required information of ASME  
Section III 1974 Edition W74 Addenda.
8. Nom. Thickness (in.) .95 Min. design thickness (in.) 11/32 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance<br>Serial Number | National<br>Board No.<br>In Numerical Order |
|---------------------------------------|---|
| (1) HT: S00222 S/N: 1                 | N/A   |
| (2) HT: S00222 S/N: 2                 | N/A   |
| (3)                                   |   |
| (4)                                   |   |
| (5)                                   |   |
| (6)                                   |   |
| (7)                                   |   |
| (8)                                   |   |
| (9)                                   |   |
| (10)                                  |   |
| (11)                                  |   |
| (12)                                  |   |
| (13)                                  |   |
| (14)                                  |   |
| (15)                                  |   |
| (16)                                  |   |
| (17)                                  |   |
| (18)                                  |   |
| (19)                                  |   |
| (20)                                  |   |
| (21)                                  |   |
| (22)                                  |   |
| (23)                                  |   |
| (24)                                  |   |
| (25)                                  |   |

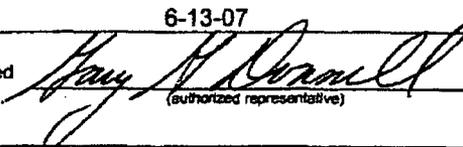
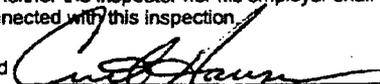
| Part or Appurtenance<br>Serial Number | National<br>Board No.<br>In Numerical Order |
|---------------------------------------|---|
| (26)                                  |   |
| (27)                                  |   |
| (28)                                  |   |
| (29)                                  |   |
| (30)                                  |   |
| (31)                                  |   |
| (32)                                  |   |
| (33)                                  |   |
| (34)                                  |   |
| (35)                                  |   |
| (36)                                  |   |
| (37)                                  |   |
| (38)                                  |   |
| (39)                                  |   |
| (40)                                  |   |
| (41)                                  |   |
| (42)                                  |   |
| (43)                                  |   |
| (44)                                  |   |
| (45)                                  |   |
| (46)                                  |   |
| (47)                                  |   |
| (48)                                  |   |
| (49)                                  |   |
| (50)                                  |   |

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure N/A At temp. °F  
(when applicable)

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

FORM N-2 (Back - Pg. 2 of 2)

Certificate Holders' Serial Nos. HT: S00222 S/N: 1 & 2 through N/A

| CERTIFICATION OF DESIGN  |  |   |  |                 |   |
|--|--|---|--|-----------------|---|
| Design specifications certified by   | <u>N/A</u><br><small>(when applicable)</small> | P.E. State  | <u>N/A</u>   | Reg. no.        | <u>N/A</u>  |
| Design report * certified by   | <u>N/A</u><br><small>(when applicable)</small> | P.E. State  | <u>N/A</u>   | Reg. no.        | <u>N/A</u>  |
| CERTIFICATE OF COMPLIANCE  |  |   |  |                 |   |
| We certify that the statements made in this report are correct and that this (these) <u>Disc Weldment</u>  |  |   |  |                 |   |
| NPT Certificate of Authorization No.   | <u>N2607</u>                                   | Expires   | <u>6-13-07</u>   |                 |   |
| Date   | <u>12/1/06</u>                                 | Name  | <u>Weir Valves &amp; Controls, USA Inc.</u><br><small>(NPT Certificate Holder)</small>                                       | Signed          | <br><small>(authorized representative)</small> |
| CERTIFICATE OF INSPECTION  |  |   |  |                 |   |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of  |  |   |  |                 |   |
| <u>MA</u>  | And employed by                                |   | <u>H.S.B.C.T.</u>  |                 |   |
| of   | <u>Hartford, CT</u>                            | have inspected these items described in this Data Report on |  | <u>12/12/06</u> | and state that to the   |
| <p>Best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.</p> <p>By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.</p> |  |   |  |                 |   |
| Date   | <u>12/12/06</u>                                | Signed  | <br><small>(authorized inspector)</small> | Commissions     | <u>MA1651 ABNI</u><br><small>(Nat'l Bd. (incl. Endorsements) and state or prov. And no.)</small>                                  |

The following items attached to Disc Weldment:

- \* Disc Post - SA 516, GR: 70 - HT: S00539, S/N: 1 & 2



**Form NIS-2 Owner's Report for Repairs or Replacements**

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                   |              |
|-------------------|--------------|
| <b>Job Number</b> |              |
| N11 - 2061335801  | Sheet 2 of 2 |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 New disc assembly was originally purchased on 21144 and refurbished on purchase order QP050618.

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**Certificate of Compliance**

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

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization Number \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date \_\_\_\_\_ N/A \_\_\_\_\_

Signed *Ron Jhr* Maintenance Manager Date 5/21/07  
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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 19, 2007 to MAY 29, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]* Commissions NH 734 ANI  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7/11/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>E11 - 2061387601 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                     |
|---|--|---------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|   |  | Date<br>May 6, 2007 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
Rhr/Lhsi System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 68 Edition Winter 1970 Addenda. N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda. N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Heavy Hex Nut     | Sandusky Nut         | 7110-95182-10-1            | N/A                | FNP2-2               | 1975       | Replaced                           | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
| Heavy Hex Nut     | T&T Enterprises      | A11483                     | N/A                | QP000740             | 2000       | Replacement                        | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 During a regulary scheduled PM to disassemble and inspect Q2E11V0038A, one nut was damaged during removal. This nut was replaced with a new nut. Ref: Transaction # 112290

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       |              |
| E11 - 2061387601 | Sheet 2 of 2 |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Original Nut was stamped as a part of valve serial number 7110-95182-10-1.

QC 98-09517 and FNP-0-QCP-22 approves the use of the alternate material and code year.

## Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed *Ron Dyer* Maintenance Manager Date 5/19/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described

in this Owner's Report during the period APRIL 26, 2007 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]*  
 Inspector's Signature

Commissions NIT 734  
 National Board, State, Province, and Endorsements

Date 5/30/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>B21 - 2070823301 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                     |
|---|--|---------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|   |  | Date<br>May 3, 2007 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
2 A Steam Generator

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 89 Edition N/A Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements. 19 89 Edition N/A Addenda, N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer  | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|-----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Bolt              | Vicente Berrizbeireta | 45995                      | N/A                | QP970783             | 1999       | Replaced                           | No                           |
| Bolt              | Westinghouse/Ionics   | 1473-H03-01B               | N/A                | QP040501             | 2004       | Replacement                        | No                           |
|                   |                       |                            |                    |                      |            |                                    |                              |
|                   |                       |                            |                    |                      |            |                                    |                              |
|                   |                       |                            |                    |                      |            |                                    |                              |
|                   |                       |                            |                    |                      |            |                                    |                              |
|                   |                       |                            |                    |                      |            |                                    |                              |
|                   |                       |                            |                    |                      |            |                                    |                              |
|                   |                       |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 The #13 bolt on the 2B Steam Generator Secondary Manway was difficult to remove. After inspection, it was determined that the bolt needed to be replaced with a new bolt. Ref: Transaction # 112589

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| B21 - 2070823301 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**

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## Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed Ron Zeln Maintenance Manager Date 5/21/07  
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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 31, 2007 to MAY 29, 2007 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 loss of any kind arising from or connected with this inspection.

[Signature] Commissions NH 734 AIN  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 5/29/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>B21 - 2070818201 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                     |
|---|--|---------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|   |  | Date<br>May 2, 2007 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
2 A Steam Generator

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 89 Edition N/A Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Bolt              | Vicente Berrizbeitia | 45995                      | N/A                | QP970783             | 1999       | Replaced                           | No                           |
| Bolt              | Westinghouse/Ionics  | 1473-H03-04B               | N/A                | QP040501             | 2004       | Replacement                        | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 The #13 bolt on the 2A Steam Generator Secondary Manway was difficult to remove. After inspection, it was determined that the bolt needed to be replaced with a new bolt. Ref: Transaction # 112588

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| B21 - 2070818201 |              |

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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## Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date \_\_\_\_\_ N/A

Signed Ron Zeln Maintenance Manager Date 5/21/07  
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 NEW HAMPSHIRE and employed by H&SB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 30, 2007 to MAY 29, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH 734 AIN  
 National Board, State, Province, and Endorsements

Date 5/29/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|   |  | <b>Job Number</b><br>P16 - 2050671501 | <b>Sheet</b> 1 of 2 |                      |            |                                    |                              |
|---|--|---------------------------------------|---------------------|----------------------|------------|------------------------------------|------------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company)   | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | <b>Unit</b><br>FNP 2                  |                     |                      |            |                                    |                              |
|   |  | <b>Date</b><br>May 7, 2007            |                     |                      |            |                                    |                              |
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u>   |  | <b>Type Code Symbol Stamp</b><br>N/A  |                     |                      |            |                                    |                              |
|   |  | <b>Authorization Number</b><br>N/A    |                     |                      |            |                                    |                              |
|   |  | <b>Expiration Date</b><br>N/A         |                     |                      |            |                                    |                              |
| <b>4. Identification of System</b><br>Service Water System  |  |                                       |                     |                      |            |                                    |                              |
| <b>5.</b><br>(a) Applicable Construction Code: <u>ASME Section III,</u> 19 <u>71</u> Edition <u>Summer 1971</u> Addenda. <u>N/A</u> Code Case<br>(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>89</u> Edition <u>N/A</u> Addenda. <u>N416-I</u> Code Case |  |                                       |                     |                      |            |                                    |                              |
| <b>6. Identification of Components Repaired or Replaced and Replacement Components:</b>   |  |                                       |                     |                      |            |                                    |                              |
| Name of Component   | Name of Manufacturer   | Manufacturer Serial Number            | National Board No.  | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
| Valve   | Kerotest   | CS12-15                               | N/A                 | FNP2-55              | 1975       | Replaced                           | Yes                          |
| Pipe  | FNP  | Q2P16HBC29                            | N/A                 | WO20561              | 1987       | Replaced                           | No                           |
| Elbow   | FNP  | Q2P16HBC29                            | N/A                 | WO20561              | 1987       | Replaced                           | No                           |
|   |  |                                       |                     |                      |            |                                    |                              |
| Valve   | BNL Industries   | A060102-1-4                           | N/A                 | QP060003             | 2006       | Replacement                        | Yes                          |
| Pipe  | Sandvik Materials  | 504200                                | N/A                 | QP060401             | 2005       | Replacement                        | No                           |
| Elbow   | Bonney Forge   | 44012                                 | N/A                 | QP060315             | 2005       | Replacement                        | No                           |
|   |  |                                       |                     |                      |            |                                    |                              |
|   |  |                                       |                     |                      |            |                                    |                              |
| <b>7. Description of Work</b><br>Valve Q2P16V216E was replaced as a part of a regularly scheduled PM. The materials for the piping and valve were upgraded per MDC 2062257401. Ref: Transaction# 106453, 109849   |  |                                       |                     |                      |            |                                    |                              |
| <b>8. Test Conducted</b><br><input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Normal Operating Pressure <input type="checkbox"/> None <input type="checkbox"/> Other<br>Pressure _____ PSI    Temperature _____ °F      |  |                                       |                     |                      |            |                                    |                              |

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

Job Number

P16 - 2050671501

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports to be attached)

Construction code for the replaced and replacement valves was ASME Section III 1971 Edition, Winter 1971 Addenda with paragraph NB6111(c) of Winter 1972 Addenda. Construction code for the service water system is ASME Section III 1971 Edition, Summer 1971 Addenda.

Code case N416-1 was utilized to permit performance of an inservice pressure test at normal system pressure and temperature in lieu of a hydrostatic test at an elevated pressure.

## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ron Zyl Maintenance Manager Date 5/30/07  
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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 6, 2007 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH 794 AIN  
 National Board, State, Province, and Endorsements

Date 5/30/07



FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. A060102-1-(1 thru 10)

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 150# (1)  
(pressure) (temperature)

9. Cold working pressure 150 PSIG @ 200F psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 320 psi

11. Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATION OF DESIGN

Design Specification certified by AN NGUYEN P.E. State AL Reg. no. 15301  
Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/07

Date MAR 23 2006 Name: BNL INDUSTRIES, INC. Signed [Signature]  
(N Certificate Holder) (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by ONEBEACON AMERICA INS. of BOSTON MASS have inspected the pump, or valve, described in this Data Report on 3/23/06, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data 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.

Date 3/23/06 Signed [Signature] Commissions NB10644, A, N, CT1262  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - M100189701 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                        |
|---|--|------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2          |
|   |  | Date<br>April 25, 2007 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 68 Edition 1970 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Studs             | Texas Bolt Company   | EQ-7                       | N/A                | QP1834               | 1988       | Replaced                           | Yes                          |
| Studs             | Texas Bolt Company   | EQ-6                       | N/A                | QP1834               | 1988       | Replaced                           | Yes                          |
| Nuts              | Texas Bolt Company   | P18                        | N/A                | QP1834               | 1988       | Replaced                           | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
| Studs             | Mackson              | S28667                     | N/A                | QP030828             | 2003       | Replacement                        | No                           |
| Studs             | Mackson              | 747065                     | N/A                | QP060585             | 2006       | Replacement                        | No                           |
| Nuts              | Unytite              | S67159                     | N/A                | QP060613             | 2004       | Replacement                        | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 During repair of valve Q2P16V795A, it was noted that the body to bonnet studs and nuts were corroded and in need of replacement. They were replaced with new studs and nuts. Ref: Transaction # 111817

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       |              |
| P16 - M100189701 | Sheet 2 of 2 |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 The replaced studs and nuts were originally stamped as a part of valve serial number 91455-1.

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## Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed Ru Jyl Maintenance Manager Date 5/21/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 23, 2007 to MAY 31, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature] Commissions NH 734 AIN  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 5/31/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - M100663701 | Sheet 1 of 2 |
|--------------------------------|--------------|

|  |   |                     |
|--|---|---------------------|
| 1. Owner<br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | 2. Plant<br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|  |   | Date<br>May 4, 2007 |

|  |                               |
|--|-------------------------------|
| 3. Work performed by<br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|  | Authorization Number<br>N/A   |
|  | Expiration Date<br>N/A        |

4. Identification of System  
Service Water System

5.  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1972 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements. 19 89 Edition N/A Addenda, N416-1 Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Valve             | Target Rock          | 5                          | N/A                | QP980742             | 1998       | Replaced                           | Yes                          |
| Pipe              | DMV Stainless        | 485                        | N/A                | QP980751             | 1997       | Replaced                           | No                           |
| Elbow             | Alloy Stainless      | AP8                        | N/A                | QP980751             | 1998       | Replaced                           | No                           |
| Bushing           | Alloy Stainless      | JGB                        | N/A                | QP990785             | 1999       | Replaced                           | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
| Valve             | Target Rock          | 7                          | N/A                | QP050366             | 2005       | Replacement                        | Yes                          |
| Pipe              | Altx                 | 8572H                      | N/A                | QP010665             | 2001       | Replacement                        | No                           |
| Elbow             | Bonney Forge         | 44012                      | N/A                | QP060315             | 2005       | Replacement                        | No                           |
| Bushing           | Alloy Stainless      | RG                         | N/A                | 7047Q61585           | 1973       | Replacement                        | No                           |

7. Description of Work  
Valve Q2P16V662A required replacement due to electrical problems. Ref: Transaction # 105948, 106042

8. Test Conducted  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| P16 - M100663701 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Code case N416-1 was utilized to permit performance of an inservice pressure test at normal system pressure and temperature in lieu of a hydrostatic test at an elevated pressure.

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## Certificate of Compliance

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

Type Code Symbol Stamp RCR 5/22/07 repair or replacement N/A

Certificate of Authorization Number \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date \_\_\_\_\_ N/A

Signed Ron Jyla Maintenance Manager Date 5/22/07  
 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 NEW HAMPSHIRE and employed by HSI3 CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period FEB. 12, 2007 to MAY 24, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB 1256A NH 77A AIN  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 5/24/07



**FORM NPV-1 (BACK - Pg. 2 of 2 )**

Certificate Holder's Serial No. 98M-001 s/n 7

8. Design conditions 150 psi 200 °F or valve pressure class N/A (1)  
 (pressure) (temperature)

9. Cold working pressure 275 psi at 100 °F

10. Hydrostatic test 425 psi. Disc differential test pressure N/A psi

11. Remarks: Indicator Tube SA-479 316, S/N 5237

Clamp Ring SA479 XM-19 S/N 75

**CERTIFICATION OF DESIGN**

Design Specification certified by An Ngoc Nguyen P.E. State AL Reg. No. 15301

Design Report certified by Not Applicable P.E. State - Reg. No. -

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-1947 Expires 12/12/2007

Date 11/28/2005 Name Target Rock Signed [Signature]  
 (N Certificate Holder) (R. E. Glazier, QA Manager  
 (authorized representative))

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of New York and employed by OneBeacon America Insurance Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on 11/28/2005 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data 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.

Date 11/28/2005 Signed [Signature] Commissions NY 5102  
 (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|   |  |                                       |                            |
|---|--|---------------------------------------|----------------------------|
|   |  | <b>Job Number</b><br>T52 - 2052827001 | <b>Sheet</b> 1 <b>of</b> 2 |
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | <b>Unit</b><br>FNP 2                  |                            |
|   |  | <b>Date</b><br>April 10, 2007         |                            |

|   |   |
|---|---|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | <b>Type Code Symbol Stamp</b><br>N/A<br><b>Authorization Number</b><br>N/A<br><b>Expiration Date</b><br>N/A |
|---|---|

**4. Identification of System**  
CTMT Penetration For Fuel Transfer Canal

**5.**  
(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1973 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Transfer Tube     | Sterns Roger         | C13784-3652                | N/A                | FNP2-2               | 1974       | Replacement                        | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
When performing LLRT on Q2T52PENE14, it was noted that the area around the jacking bolts on the spent fuel pool side was leaking. In order to eliminate the leaking, Method 1 on MDC2070521201 was used. Ref: Transaction # 102044

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| T52 - 2052827001 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Stainless steel plate used iaw Method 1 on MDC 2070521201 has heat number 944405 and was purchased on QP060970.

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## Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed *Ron Fyfe* Maintenance Manager Date 5/21/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period MARCH 28, 2007 to MAY 31, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]* Commissions NH 73A AIN  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 5/31/07

# Stearns-Roger

CORPORATION

## FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by Stearns-Roger Corp, General Iron Works Co, 600 W. Bates, Englewood, Colo. 80110  
(Name and address of manufacturer of part)

(b) Manufactured for Westinghouse Elect. Corp, P.O. Box 355, Pittsburgh, PA, 15230  
(Name and address of manufacturer of completed nuclear vessel)

2. Identification-Manufacturer's Serial No. of Part C13784-3652 Nat'l. Bd. No. ---

(a) Constructed According to Drawing No. 22409-3 Drawing Prepared by Stearns-Roger Corp.

(b) Description of Part Inspected Transfer Tube

(c) Applicable ASME Code: Section III, Edition 1971, Addenda and Sum 73, Case No. --- Class II

3. Remarks: For transfer of Nuclear Fuel Cell from fuel storage building to reactor building.  
(Brief description of service for which vessel part was designed)

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.  
 (The applicable Design Specification and Stress Report are not the responsibility of the part manufacturer. An appurtenance manufacturer is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the vessel Design Specification and Stress Report.)

Date August 22, 1974 Signed Stearns-Roger Corp. By Roger Davis  
(Manufacturer)

Certificate of Authorization Expires March 7, 1975 Certificate of Authorization No. 384

**CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)**

Design information on file at Not Applicable

Stress analysis report on file at ---

Design specifications certified by --- Prof. Eng. State --- Reg. No. ---

Stress analysis report certified by --- Prof. Eng. State --- Reg. No. ---

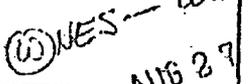
**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Colorado and employed by The Hartford Steam Boiler Insp. & Ins. Co of Hartford, Conn. have inspected the part Transfer Tube described in the manufacturer's Partial Data Report on Aug. 22, 1974 and state that to the best of my knowledge and belief, the manufacturer has constructed this part in accordance with the ASME Code Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Manufacturer's Partial Data 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.

Date Aug. 22, 1974  
F. T. Boyle  
Inspector's Signature

QCDS  
Commissioner  
 National Board, State, Province and No.

  
**AUG 27 1974**  
**A 18.05 FNP2-2**  
**181744**

05497 919

# Stearns-Roger

CORPORATION

## FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material SA240-304 T.S. 75000 Nominal Thickness .375 Corrosion Allowance 0 in. Diam. 18 in. Length 18 ft. 1 1/2 in.

5. Seams: Long Dbl. Butt. H.T. No R.T. 100% Efficiency 100 %

6. Heads: (a) Material SA182-F304 T.S. 75000 (b) Material SA182-F304 T.S. 75000 No. of Courses 2

| Location (Top, bottom, ends) | Thickness    | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Press. (Conv. or Conc.) |
|------------------------------|--------------|--------------|----------------|------------------|--------------------|----------------------|---------------|---------------------------------|
| (a) Blind Flg.               | <u>1.688</u> | -            | -              | -                | -                  | -                    | <u>27.5</u>   | -                               |
| (b) W.N.s. Flg.              | <u>1.688</u> | -            | -              | -                | -                  | -                    | <u>27.5</u>   | -                               |

If removable, bolts used SA182-F304 T.S. 75000 Size 1 1/8 No. 20 (Describe or attach sketch)

7. Jacket Closure: 60 External PSI @ 350°F Drop Weight -- Charpy Impact -- ft-lb

8. Design pressure 30 Internal psi at 140 °F at temp. of -- °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary. Material -- Diam. -- Thickness -- in. Attachment -- (Welded, Bolted)

10. Tubes: Material -- O.D. -- in. Thickness -- inches of pipe. Number -- Type -- (Std. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or chambers of heat exchangers.

11. Shell: Material -- T.S. -- Nominal Thickness -- in. Corrosion Allowance -- in. Diam. -- ft. In. Length -- ft. In.

12. Seams: Long -- H.T. -- R.T. -- Efficiency -- %

6. H.T. -- R.T. -- No. of Courses --

13. Heads: (a) Material -- T.S. -- (b) Material -- T.S. --

| Location              | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Pressure (Convex or Concave) |
|-----------------------|-----------|--------------|----------------|------------------|--------------------|----------------------|---------------|--------------------------------------|
| (a) Top, bottom, ends | <u>--</u> | <u>--</u>    | <u>--</u>      | <u>--</u>        | <u>--</u>          | <u>--</u>            | <u>--</u>     | <u>--</u>                            |
| (b) Channel           | <u>--</u> | <u>--</u>    | <u>--</u>      | <u>--</u>        | <u>--</u>          | <u>--</u>            | <u>--</u>     | <u>--</u>                            |

If removable, bolts used (a) -- (b) -- (c) -- Other fastening -- (Describe or attach sketch)

14. Design pressure -- psi at -- °F at temp. of -- °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlet: Number -- Size -- Location --

16. Nozzles:

| Purpose (Inlet, Outlet, etc.) | Number   | Diam. or Size | Type        | Material          | Thickness   | Reinforcement Material | How Attached  |
|-------------------------------|----------|---------------|-------------|-------------------|-------------|------------------------|---------------|
| <u>Test</u>                   | <u>1</u> | <u>.50</u>    | <u>CFLC</u> | <u>SA182-F304</u> | <u>.197</u> | <u>Integral</u>        | <u>Welded</u> |

17. Inspection Hatches: No. -- Size -- Location --

Openings: Handholes: No. -- Size -- Location --

Threaded: No. -- Size -- Location --

18. Supports: Skids NO Legs -- (Number) -- Legs -- (Number) -- Other Q.C.D.S. Attached -- (Where & How)

Supports by others Q.C.D.S.

1. If Post-weld Heat Treatment is required, list other internal or external pressure with coincident temperature when applied.

This Form is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

WES - WMS  
 AUG 27 1974  
 A 18.  
 FNP-2  
 18172

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>T52 - 2070804001 | Sheet 1 of 2 |
|--------------------------------|--------------|

|  |   |                     |
|--|---|---------------------|
| 1. Owner<br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | 2. Plant<br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|  |   | Date<br>May 7, 2007 |

|  |                               |
|--|-------------------------------|
| 3. Work performed by<br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|  | Authorization Number<br>N/A   |
|  | Expiration Date<br>N/A        |

4. Identification of System  
Ctmt Penetration For Fuel Transfer Canal

5.  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1973 Addenda. N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements. 19 89 Edition N/A Addenda. N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Transfer Tube     | Sterns Roger         | C13784-3652                | N/A                | FNP2-2               | 1974       | Replacement                        | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

7. Description of Work  
 When performing LLRT on Q2T52PENE14, it was noted that the area around the jacking bolts on the containment side was leaking. In order to eliminate the leaking, Method 1A on MDC2070521201 was used.

8. Test Conducted  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType: L1.52

As required by the provisions of the ASME Code Section XI

Job Number

T52 - 2070804001

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports to be attached)

### Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ran Zehr Maintenance Manager Date 5/19/07  
Owner or Owner's Designer, 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period MAY 9, 2007 to MAY 29, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions NH 734 AIN  
National Board, State, Province, and Endorsements

Date 5/29/07

# Stearns-Roger

CORPORATION

## FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by Stearns-Roger Corp. General Iron Works Co., 600 W. Bates, Englewood, Colo. 80110  
(Name and address of Manufacturer of Part)

(b) Manufactured for Westinghouse Elect. Corp. P.O. Box 355, Pittsburgh, PA, 15230  
(Name and address of Manufacturer of Completed Nuclear Vessel)

2. Identification-Manufacturer's Serial No. of Part C13784-3652 Nat'l. Bd. No.     

(a) Constructed According to Drawing No. 22409-3 Drawing Prepared by Stearns-Roger Corp.

(b) Description of Part Inspected Transfer Tube

(c) Applicable ASME Codes: Section III, Edition 1971, Addenda date Sum 73, Case No.      Class II

3. Remarks: For transfer of Nuclear Fuel Cell from fuel storage building to reactor building.  
(Brief description of service for which vessel part was designed)

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III. (The applicable Design Specification and Stress Report are not the responsibility of the part Manufacturer. An appurtenance Manufacturer is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the vessel Design Specification and Stress Report.)

Date August 22, 1974 Signed Stearns-Roger Corp. By Roger Davis  
(Manufacturer's Signature)

Certificate of Authorization Expires March 7, 1975 Certificate of Authorization No. 384

**CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)**

Design information on file at Not Applicable

Stress analysis report on file at     

Design specifications certified by      Prof. Eng. State      Reg. No.     

Stress analysis report certified by      Prof. Eng. State      Reg. No.     

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Colorado and employed by The Hartford Steam Boiler Insp. & Ins. Co of Hartford, Conn. have inspected the part Transfer Tube described in the Manufacturer's Partial Data Report on Aug. 22, 1974 and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data 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.

Date Aug. 22, 1974

F. J. Boyle Inspector's Signature

QCDS  
 Commission No.      National Board, State, Province and No.

(W)NES - WME  
 AUG 27 1974  
 A 18.05 FNP 2-2  
 181724

06397 919

# Stearns-Roger

CORPORATION

## FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material SA240-304 T.S. 75000 Nominal Thickness .375 Corrosion Allowance 0 in. Diam. 1 8 in. Length 18 1 1/2 ft.

5. Seams: Long Dbl. Butt H.T. No R.T. 100% Efficiency 100 %

6. Heads: (a) Material SA182-F304 T.S. 75000 (b) Material SA182-F304 T.S. 75000 No. of Courses 2

| Location (Top, bottom, ends) | Thickness    | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Press. (Conv. or Conc.) |
|------------------------------|--------------|--------------|----------------|------------------|--------------------|----------------------|---------------|---------------------------------|
| (a) Blind Flg.               | <u>1.688</u> | -            | -              | -                | -                  | -                    | <u>27.5</u>   | -                               |
| (b) W.N. Flg.                | <u>1.688</u> | -            | -              | -                | -                  | -                    | <u>27.5</u>   | -                               |

If removable, bolts used SB164-400CD 85000, 1 1/8, 20 (Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure: 60 External PSI @ 350°F Drop Weight -- Charpy Impact -- ft.-lb. at temp. of -- °F

8. Design pressure 30 Internal psi at 140° °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary. Material -- Diam. -- Thickness -- in. Attachment -- (Welded, Bolted)

10. Tubes: Material -- O.D. -- in. Thickness -- in. Attachment -- inches of gage. Number -- Type -- (Str. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or chambers of heat exchangers.

11. Shell: Material -- T.S. -- Nominal Thickness -- in. Corrosion Allowance -- in. Diam. -- ft. In. Length -- ft. In.

12. Seams: Long -- H.T. -- R.T. -- Efficiency -- %

13. Heads: (a) Material -- T.S. -- (b) Material -- T.S. -- No. of Courses --

| Location              | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Pressure (Convex or Concave) |
|-----------------------|-----------|--------------|----------------|------------------|--------------------|----------------------|---------------|--------------------------------------|
| (a) Top, bottom, ends | <u>--</u> | <u>--</u>    | <u>--</u>      | <u>--</u>        | <u>--</u>          | <u>--</u>            | <u>--</u>     | <u>--</u>                            |
| (b) Channel           | <u>--</u> | <u>--</u>    | <u>--</u>      | <u>--</u>        | <u>--</u>          | <u>--</u>            | <u>--</u>     | <u>--</u>                            |

If removable, bolts used (a) -- (b) -- (c) -- Other fastening -- (Describe or attach sketch)

14. Design pressure -- psi at -- °F Drop Weight -- Charpy Impact -- ft.-lb. at temp. of -- °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number -- Size -- Location --

16. Nozzles:

| Purpose (Inlet, Outlet, Drain) | Number   | Diam. or Size | Type        | Material          | Thickness   | Reinforcement Material | How Attached  |
|--------------------------------|----------|---------------|-------------|-------------------|-------------|------------------------|---------------|
| <u>Test</u>                    | <u>1</u> | <u>.50</u>    | <u>CPFG</u> | <u>SA182-F304</u> | <u>.197</u> | <u>Integral</u>        | <u>Welded</u> |

17. Inspection Handholes, No. -- Size -- Location --  
 Openings: Handholes, No. -- Size -- Location --  
 Threaded, No. -- Size -- Location --

18. Supports: S&B No Lugs (Number) -- Legs (Number) -- Other Boxes Attached -- (Where & How)

Supports by others QCDS

This Form is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

18.  
 AUG 31 1974  
 FNP 2-18172

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|  |  | <b>Job Number</b><br>N11 - 2050683001 | <b>Sheet</b> 1 of 2 |                            |            |                                    |                            |
|--|--|---------------------------------------|---------------------|----------------------------|------------|------------------------------------|----------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company)  | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | <b>Unit</b><br>FNP 2                  |                     |                            |            |                                    |                            |
|  |  | <b>Date</b><br>May 7, 2007            |                     |                            |            |                                    |                            |
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u>  |  | <b>Type Code Symbol Stamp</b><br>N/A  |                     |                            |            |                                    |                            |
|  |  | <b>Authorization Number</b><br>N/A    |                     |                            |            |                                    |                            |
|  |  | <b>Expiration Date</b><br>N/A         |                     |                            |            |                                    |                            |
| <b>4. Identification of System</b><br>Main Steam System  |  |                                       |                     |                            |            |                                    |                            |
| <b>5.</b><br>(a) Applicable Construction Code: <u>ASME Section III,</u> 19 <u>71</u> Edition <u>Summer 1973</u> Addenda, <u>N/A</u> Code Case<br>(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>89</u> Edition <u>N/A</u> Addenda, <u>N/A</u> Code Case |  |                                       |                     |                            |            |                                    |                            |
| <b>6. Identification of Components Repaired or Replaced and Replacement Components:</b>  |  |                                       |                     |                            |            |                                    |                            |
| Name of Component  | Name of Manufacturer   | Manufacturer Serial Number            | National Board No.  | Other Identification       | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes/No) |
| Disc Assembly  | Atwood and Morrell   | FNPSN15                               | N/A                 | <u>QP0201601/</u><br>22601 | 1984       | Replaced                           | No                         |
| Disc Assembly  | Atwood and Morrell   | FNPSN10                               | N/A                 | QP050618                   | 2006       | Replacement                        | No                         |
|  |  |                                       |                     |                            |            |                                    |                            |
|  |  |                                       |                     |                            |            |                                    |                            |
|  |  |                                       |                     |                            |            |                                    |                            |
|  |  |                                       |                     |                            |            |                                    |                            |
|  |  |                                       |                     |                            |            |                                    |                            |
|  |  |                                       |                     |                            |            |                                    |                            |
|  |  |                                       |                     |                            |            |                                    |                            |
|  |  |                                       |                     |                            |            |                                    |                            |
| <b>7. Description of Work</b><br>The disc assembly for Q2N11V001C was replaced with a refurbished disc assembly as a part of a regularly scheduled PM. Ref: Transaction # 110520   |  |                                       |                     |                            |            |                                    |                            |
| <b>8. Test Conducted</b><br><input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Normal Operating Pressure <input checked="" type="checkbox"/> None <input type="checkbox"/> Other<br>Pressure _____ PSI    Temperature _____ °F   |  |                                       |                     |                            |            |                                    |                            |

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| N11 - 2050683001 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 New disc assembly was originally purchased on 21144 and refurbished on purchase order QP050618.

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## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ran Jala Maintenance Manager Date 5/21/07  
 Owner or Owner's Designer, 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 NEW HAMPSHIRE and employed by AESB CT of HARTFORD CT have inspected the components described in this Owner's Report during the period APRIL 19, 2007 to MAY 29, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH 734 AIN  
 National Board, State, Province, and Endorsements

Date 5/29/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2050667201 | Sheet 1 of 2 |
|--------------------------------|--------------|

|  |   |                     |
|--|---|---------------------|
| 1. Owner<br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | 2. Plant<br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|  |   | Date<br>May 7, 2007 |

|  |                               |
|--|-------------------------------|
| 3. Work performed by<br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|  | Authorization Number<br>N/A   |
|  | Expiration Date<br>N/A        |

4. Identification of System  
Service Water System

5.  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1971 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N416-1 Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Valve             | Kerotest             | CS12-12                    | N/A                | FNP2-55              | 1975       | Replaced                           | Yes                          |
| Pipe              | Daniel Construction  | Q2P16HBC39                 | N/A                | 7071                 | 1979       | Replaced                           | No                           |
| Elbow             | Daniel Construction  | Q2P16HBC39                 | N/A                | 7071                 | 1979       | Replaced                           | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
| Valve             | BNL Industries       | A060905-1-2                | N/A                | QP060782             | 2007       | Replacement                        | Yes                          |
| Pipe              | Sandvik Materials    | 504200                     | N/A                | QP060401             | 2005       | Replacement                        | No                           |
| Elbow             | Bonney Forge         | 44013                      | N/A                | QP060796             | 2005       | Replacement                        | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

7. Description of Work  
 Valve Q2P16V216B was replaced as a part of a regularly scheduled PM. The materials for the piping and valve were upgraded per MDC 2062257401. Ref: Transaction# 107864, 109402

8. Test Conducted  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| P16 - 2050667201 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Construction code for the replaced and replacement valves was ASME Section III 1971 Edition, Winter 1971 Addenda with paragraph NB6111(c) of Winter 1972 Addenda. Construction code for the service water system is ASME Section III 1971 Edition, Summer 1971 Addenda.

Code case N416-1 was utilized to permit performance of an inservice pressure test at normal system pressure and temperature in lieu of a hydrostatic test at an elevated pressure.

### Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed *Ra Zylor* Maintenance Manager Date 5/31/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 2, 2007 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]* Commissions NH 734 AEN  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 5/30/07



FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. AQ60905-1-( 1 THRU 3)

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 150# (1)  
(pressure) (temperature)
9. Cold working pressure 230 psi at 100°F
10. Hydrostatic test 425 psi. Disk differential test pressure 320 psi
11. Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**CERTIFICATION OF DESIGN**

Design Specification certified by AN NGUYEN P.E. State AL Reg. no. 15301  
 Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/07

Date JAN - 2 2007 Name BNL INDUSTRIES, INC. Signed \_\_\_\_\_  
(N Certificate Holder) (Authorized Representative)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by ONEBEACON AMERICA INS. of BOSTON MASS have inspected the pump, or valve, described in this Data Report on 1/4/07, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data 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.

Date 1/4/07 Signed [Signature] Commissions NB1064, A, P, CT262  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2050671301 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                     |
|---|--|---------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|   |  | Date<br>May 7, 2007 |

|   |                                      |
|---|--------------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | <b>Type Code Symbol Stamp</b><br>N/A |
|   | <b>Authorization Number</b><br>N/A   |
|   | <b>Expiration Date</b><br>N/A        |

**4. Identification of System**  
Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1971 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N416-1 Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Valve             | Kerotest             | CS12-14                    | N/A                | FNP2-55              | 1975       | Replaced                           | Yes                          |
| Pipe              | Daniel Construction  | Q2P16HBC39                 | N/A                | 7071                 | 1979       | Replaced                           | No                           |
| Elbow             | Daniel Construction  | Q2P16HBC39                 | N/A                | 7071                 | 1979       | Replaced                           | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
| Valve             | BNL Industries       | A060102-1-3                | N/A                | QP060003             | 2006       | Replacement                        | Yes                          |
| Pipe              | Sandvik Materials    | 504200                     | N/A                | QP060401             | 2005       | Replacement                        | No                           |
| Elbow             | Bonney Forge         | 44012                      | N/A                | QP060315             | 2005       | Replacement                        | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 Valve Q2P16V216D was replaced as a part of a regularly scheduled PM. The materials for the piping and valve were upgraded per MDC 2062257401. Ref: Transaction# 106408, 109850

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| P16 - 2050671301 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Construction code for the replaced and replacement valves was ASME Section III 1971 Edition, Winter 1971 Addenda with paragraph NB6111(c) of Winter 1972 Addenda. Construction code for the service water system is ASME Section III 1971 Edition, Summer 1971 Addenda.

Code case N416-1 was utilized to permit performance of an inservice pressure test at normal system pressure and temperature in lieu of a hydrostatic test at an elevated pressure.

### Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed *Ran Zyl* Maintenance Manager Date 5/30/07  
 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 NEW HAMPSHIRE and employed by NSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 6, 2007 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]* Commissions NA 734 A IN  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 5/30/07



FORM NPV-1 (Back -- Pg. 2 of 2)

Certificate Holder's Serial No. A060102-1-(1 thru 10)

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 150# (1)  
(pressure) (temperature)
9. Cold working pressure 150 PSIG @ 200F psi at 100°F
10. Hydrostatic test 425 psi. Disk differential test pressure 320 psi
11. Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**CERTIFICATION OF DESIGN**

Design Specification certified by AN NGUYEN P.E. State AL Reg. no. 15301  
 Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/07

Date MAR 23 2006 Name: BNL INDUSTRIES, INC. Signed [Signature]  
(N Certificate Holder) (Authorized representative)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by ONEBEACON AMERICA INS. of BOSTON MASS have inspected the pump, or valve, described in this Data Report on 3/23/06, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data 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.

Date 3/23/06 Signed [Signature] Commissions NB10644, A, N, CT7262  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                       |                     |
|---------------------------------------|---------------------|
| <b>Job Number</b><br>P16 - 2050671101 | <b>Sheet</b> 1 of 2 |
|---------------------------------------|---------------------|

|   |  |                            |
|---|--|----------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | <b>Unit</b><br>FNP 2       |
|   |  | <b>Date</b><br>May 7, 2007 |

|   |                                      |
|---|--------------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | <b>Type Code Symbol Stamp</b><br>N/A |
|   | <b>Authorization Number</b><br>N/A   |
|   | <b>Expiration Date</b><br>N/A        |

**4. Identification of System**  
Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1971 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N416-1 Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Valve             | Kerotest             | CS12-11                    | N/A                | FNP2-55              | 1975       | Replaced                           | Yes                          |
| Pipe              | FNP                  | Q2P16HBC29                 | N/A                | WO20561              | 1987       | Replaced                           | No                           |
| Elbow             | FNP                  | Q2P16HBC29                 | N/A                | WO20561              | 1987       | Replaced                           | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
| Valve             | BNL Industries       | A060102-1-1                | N/A                | QP060003             | 2006       | Replacement                        | Yes                          |
| Pipe              | Sandvik Materials    | 504200                     | N/A                | QP060401             | 2005       | Replacement                        | No                           |
| Elbow             | Bonney Forge         | 44012                      | N/A                | QP060796             | 2005       | Replacement                        | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 Valve Q2P16V216C was replaced as a part of a regularly scheduled PM. The materials for the piping and valve were upgraded per MDC 2062257401. Ref: Transaction# 106361, 109851, 109905

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F





FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. A060102-1-(1 thru 10)

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 150# (1)  
(pressure) (temperature)

9. Cold working pressure 150 PSIG @ 200F psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 320 psi

11. Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATION OF DESIGN

Design Specification certified by AN NGUYEN P.E. State AL Reg. no. 15301  
Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/07  
Date MAR 23 2006 Name: BNL INDUSTRIES, INC. Signed [Signature]  
(N Certificate Holder) (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by ONEBEACON AMERICA INC. of BOSTON MASS have inspected the pump, or valve, described in this Data Report on 3/23/06, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data 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.

Date 3/23/06 Signed [Signature] Commission No. NB10644, A, N CT7262  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

# Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType : L1.52

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2050666901 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                     |
|---|--|---------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|   |  | Date<br>May 7, 2007 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1971 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements. 19 89 Edition N/A Addenda, N416-1 Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Valve             | Kerotest             | CS12-9                     | N/A                | FNP2-55              | 1975       | Replaced                           | Yes                          |
| Pipe              | FNP                  | Q2P16HBC29                 | N/A                | WO20561              | 1987       | Replaced                           | No                           |
| Elbow             | FNP                  | Q2P16HBC29                 | N/A                | WO20561              | 1987       | Replaced                           | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
| Valve             | BNL Industries       | A060905-1-1                | N/A                | QP060782             | 2007       | Replacement                        | Yes                          |
| Pipe              | Sandvik Materials    | 504200                     | N/A                | QP060401             | 2005       | Replacement                        | No                           |
| Elbow             | Bonney Forge         | 44013                      | N/A                | QP060796             | 2005       | Replacement                        | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 Valve Q2P16V216A was replaced as a part of a regularly scheduled PM. The materials for the piping and valve were upgraded per MDC 2062257401. Ref: Transaction# 107866, 109401

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| P16 - 2050666901 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Construction code for the replaced and replacement valves was ASME Section III 1971 Edition, Winter 1971 Addenda with paragraph NB6111(c) of Winter 1972 Addenda. Construction code for the service water system is ASME Section III 1971 Edition, Summer 1971 Addenda.

Code case N416-1 was utilized to permit performance of an inservice pressure test at normal system pressure and temperature in lieu of a hydrostatic test at an elevated pressure.

## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ru [Signature] Maintenance Manager Date 5/30/07  
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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 2, 2007 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH 734 AIN  
National Board, State, Province, and Endorsements

Date 5/31/07



FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. AQ60905-1-( 1 THRU 3)

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 150# (1)
- (pressure) (temperature)
9. Cold working pressure 230 psi at 100°F
10. Hydrostatic test 425 psi. Disk differential test pressure 320 psi
11. Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**CERTIFICATION OF DESIGN**

Design Specification certified by AN NGUYEN P.E. State AL Reg. no. 15301

Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/07

Date 12/11/07 Name BNL INDUSTRIES, INC. Signed \_\_\_\_\_  
 (N Certificate Holder) (Authorized Representative)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by ONEBEACON AMERICA INC. of BOSTON, MASS have inspected the pump, or valve, described in this Data Report on 1/4/07, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data 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.

Date 1/4/07 Signed \_\_\_\_\_ Commissions NB1064, A, CT262  
 (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2060722701 | Sheet 1 of 2 |
|--------------------------------|--------------|

|  |   |                     |
|--|---|---------------------|
| 1. Owner<br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | 2. Plant<br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|  |   | Date<br>May 8, 2007 |

|  |                               |
|--|-------------------------------|
| 3. Work performed by<br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|  | Authorization Number<br>N/A   |
|  | Expiration Date<br>N/A        |

4. Identification of System  
Service Water System

5.  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1971 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements. 19 89 Edition N/A Addenda, N416-1 Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component  | Name of Manufacturer     | Manufacturer Serial Number | National Board No. | Other Identification    | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|--------------------|--------------------------|----------------------------|--------------------|-------------------------|------------|------------------------------------|------------------------------|
| Concentric Reducer | Crane Co.                | CRCB                       | N/A                | JG-4(J)-738<br>WO M5818 | 1976       | Replaced                           | Yes                          |
| Weld Neck Flange   | ITT Grinnell             | EOTY                       | N/A                | JG-4(J)-738<br>WO M5818 | 1976       | Replaced                           | Yes                          |
| Pipe               | Daniel Construction      | N55016                     | N/A                | JG-4(J)-738<br>WO M5818 | 1978       | Replaced                           | Yes                          |
| Concentric Reducer | EZFLOW                   | 8048-1-1                   | N/A                | QP070034                | 2007       | Replacement                        | No                           |
| Weld Neck Flange   | Western Forge and Flange | 217H949                    | N/A                | QP070102                | 2007       | Replacement                        | No                           |
| Plate (For Spacer) | North American Stainless | 822169                     | N/A                | QP060645                | 2006       | Replacement                        | No                           |
|                    |                          |                            |                    |                         |            |                                    |                              |
|                    |                          |                            |                    |                         |            |                                    |                              |

7. Description of Work  
 The reducer is downstream of a throttled butterfly valve (Q2P16V560). Two pin holes are postulated to have been caused by the normal erosion due to the resulting turbulent flow impinging on the flawed area of the reducer. Ref: Transaction # 109511, 109483, 113163

8. Test Conducted  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| P16 - 2060722701 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Code case N416-1 was utilized to permit performance of an inservice pressure test at normal system pressure and temperature in lieu of a hydrostatic test at an elevated pressure.

MDC2070694001 removed the sock-o-let and plug that was installed under MDC04-2-0036 during 2R16 to stop a pinhole leak.  
 MDC2070987501 removed the 2" pup piece and installed a 1/4" stainless steel spacer between the weld neck flange and V560.

The studs and nuts on the downstream side of V560 were replaced with new studs and nuts. The information for the new studs and nuts is as follows:

6" Studs - HT # 59709, PO # QP070499  
 Nuts for 6" Studs - HT # 13616, PO # QP070499

12" Studs - HT# 625490, PO # QP070386  
 Nuts for 12" Studs - HT# 223469, PO# QP070122

### Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed *Rm [Signature]* Maintenance Manager Date 5/30/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD CT have inspected the components described in this Owner's Report during the period APRIL 3, 2007 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]* Commissions NH 734 AIN  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 5/30/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>E21 - 2070140201 | Sheet 1 of 2 |
|--------------------------------|--------------|

|  |   |                     |
|--|---|---------------------|
| 1. Owner<br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | 2. Plant<br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|  |   | Date<br>May 7, 2007 |

|  |                               |
|--|-------------------------------|
| 3. Work performed by<br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|  | Authorization Number<br>N/A   |
|  | Expiration Date<br>N/A        |

4. Identification of System  
Charging/Hhsi System

5.  
 (a) Applicable Construction Code: See Note, 19 Edition N/A Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component             | Name of Manufacturer | Manufacturer Serial Number   | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------------------|----------------------|------------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Pump Barrel W/ Discharge Head | Pacific Pumps        | 47669                        | N/A                | FNP2-2               | 1973       | Replaced                           | Yes                          |
| Pump Barrel W/ Discharge Head | Flowsolve            | LOT # RLSA010431<br>SEE NOTE | N/A                | QP060293             | 2007       | Replacement                        | Yes                          |
|                               |                      |                              |                    |                      |            |                                    |                              |
|                               |                      |                              |                    |                      |            |                                    |                              |
|                               |                      |                              |                    |                      |            |                                    |                              |
|                               |                      |                              |                    |                      |            |                                    |                              |
|                               |                      |                              |                    |                      |            |                                    |                              |
|                               |                      |                              |                    |                      |            |                                    |                              |
|                               |                      |                              |                    |                      |            |                                    |                              |
|                               |                      |                              |                    |                      |            |                                    |                              |

7. Description of Work  
 Inspections have identified an integrity issue with the charging pump barrels constructed with a stainless steel cladding. Therefore, FNP is changing out all charging pump casings with casings constructed ~~for~~ forged solid stainless steel. This work order replaced the 2A charging pump barrel (Q2E21P002A) Ref: Transaction # 108370  
*with RLS 6/19/07*

8. Test Conducted  
 Hydrostatic    Pneumatic    Normal Operating Pressure    None    Other  
 Pressure \_\_\_\_\_ PSI   Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| E21 - 2070140201 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 The original charging pump was built to the 1968 Draft Pump & Valve Code. The Charging System was stamped as ASME Section III 1971 Edition, Summer 1971 Addenda. The replacement charging pump was built to ASME Section III 1971 Addition, Summer 1972 Addenda. This was approved by MDC2063222701.

The serial number for the new pump barrel is RLSA10244. The serial number for the new discharge head is RLSA10101. The Lot number for the new barrel and discharge head combined is RLSA010431.

During the initial ISI inspection of the intergrally attached welds, several indications were noted in the feet to barrel welds. These indications were very minor and were removed by grinding while remaining within the design tolerances for the welds. This work was performed on WO 2070140220.

The discharge flange studs and nuts were replaced with new studs and nuts. The information for the new studs and nuts is as follows:

Studs - HT # 235878, PO # QP050760  
 Nuts - HT # S67159, PO # QP060613

## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed [Signature] Maintenance Manager Date 5/23/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period MARCH 26, 2007 to MAY 31, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH 734 AIN  
 National Board, State, Province, and Endorsements

Date 5/31/07

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

1 Manufactured and certified by Flowserve Pump Division, Nuclear Products Operations 2300 E. Vernon Ave., Vernon, CA 90058  
(name and address of NPT Certificate Holder)

2 Manufactured for Alabama Power Company, Farley Nuclear Plant - 7338 N. State Highway 95, Columbia, AL36319  
(name and address of purchaser)

3 Location of installation Alabama Power Company, Farley Nuclear Plant - 7338 N. State Highway 95, Columbia, AL36319  
(name and address)

4 Type DWG021915 Rev. B ASME SA-182 GRF 304 75.000 N/A 2007  
(drawing no.) (matl. spec. no.) (design strength) (CRN) (year built)

5 ASME Code Section III Division 1: 1971 1972 Summer Addenda 2 N/A  
(edition) (addenda date) (class) (Code Case no.)

6 Fabricated in accordance with Const. Spec. (Div 2 only) N/A Revision N/A Date N/A  
(no.)

7 Remarks: Flowserve Job No.: RLCA04174 Part Nomenclature: Discharge Head / Case Assembly:  
Nameplate attached with drive screws

8 Nom. thickness (in) N/A Min. design thickness (in) N/A Dia. ID (ft & in) N/A Length overall (ft & in) N/A

9 When applicable, Certificate Holders' Data Reports are attached for each item of this report:

| Part or Appurtenance Serial Number | National Board No. in Numerical Order | Part or Appurtenance Serial Number | National Board No. in Numerical Order |
|------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|
| (1) RLSA10101                      | N/A                                   | (26)                               |                                       |
| (2) RLSA10244                      | N/A                                   | (27)                               |                                       |
| (3)                                |                                       | (28)                               |                                       |
| (4)                                |                                       | (29)                               |                                       |
| (5)                                |                                       | (30)                               |                                       |
| (6)                                |                                       | (31)                               |                                       |
| (7)                                |                                       | (32)                               |                                       |
| (8)                                |                                       | (33)                               |                                       |
| (9)                                |                                       | (34)                               |                                       |
| (10)                               |                                       | (35)                               |                                       |
| (11)                               |                                       | (36)                               |                                       |
| (12)                               |                                       | (37)                               |                                       |
| (13)                               |                                       | (38)                               |                                       |
| (14)                               |                                       | (39)                               |                                       |
| (15)                               |                                       | (40)                               |                                       |
| (16)                               |                                       | (41)                               |                                       |
| (17)                               |                                       | (42)                               |                                       |
| (18)                               |                                       | (43)                               |                                       |
| (19)                               |                                       | (44)                               |                                       |
| (20)                               |                                       | (45)                               |                                       |
| (21)                               |                                       | (46)                               |                                       |
| (22)                               |                                       | (47)                               |                                       |
| (23)                               |                                       | (48)                               |                                       |
| (24)                               |                                       | (49)                               |                                       |
| (25)                               |                                       | (50)                               |                                       |

10. Design pressure 3000 psi Temp 300 °F Hydro test pressure 4650 PSI@ 81 at temp °F  
(when applicable)

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



*John Calcagno*  
*323-584-1872*  
*Tamer*  
*323-586-4072 work*  
*213-308-5926 cell*

Certificate Holder's Serial Nos. RLSA10101 through RLSA10244

| CERTIFICATION OF DESIGN  |   |   |                                   |
|--|---|---|-----------------------------------|
| Design specifications certified by   | <u>A. Nguyen</u>  | P.E. State  | <u>AL</u> Reg. no. <u>15301</u>   |
| Design report* certified by  | <u>C. Roberts</u><br><small>(when applicable)</small>   | P.E. State  | <u>CA</u> Reg. no. <u>M-18283</u> |
| CERTIFICATE OF COMPLIANCE  |   |   |                                   |
| We certify that the statements made in this report are correct and that this (these) <u>Discharge Head / Case Assembly</u>   |   |   |                                   |
| conforms to the rules of construction of the ASME Code Section III, Division 1   |   |   |                                   |
| NPT Certificate of Authorization No. <u>N-1131</u>   |   | Expires <u>June 10, 2008</u>  |                                   |
| Date   | Name  | Signed  |                                   |
| <u>MAR 0 0 2007</u>  | <u>Flowserv Pump Division, Nuclear Products Operations</u><br><small>(NPT Certificate Holder)</small> | <u>LOMER REEK</u><br><small>(authorized representative)</small>                               |                                   |
| CERTIFICATE OF INSPECTION  |   |   |                                   |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>California</u> and employed by <u>HSB-CI</u>  |   |   |                                   |
| of <u>Hanford, CA</u> have inspected these items described in this Data Report on <u>3/9/07</u> and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code Section III Division 1. Each part listed has been authorized for stamping on the date shown above           |   |   |                                   |
| By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection. |   |   |                                   |
| Date   | Signed  | Commissions   |                                   |
| <u>3/9/07</u>  | <u>[Signature]</u><br><small>(Authorized Nuclear Inspector)</small>                                   | <u>CA # 2081</u><br><small>(Natl. Bd. Insl. endorsements, and state or prov. and no.)</small> |                                   |

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|  |  | <b>Job Number</b><br>R43 - S062792701 | <b>Sheet</b> 1 of 2 |                      |            |                                    |                              |
|--|--|---------------------------------------|---------------------|----------------------|------------|------------------------------------|------------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company)  | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | <b>Unit</b><br>FNP 2                  |                     |                      |            |                                    |                              |
|  |  | <b>Date</b><br>October 1, 2006        |                     |                      |            |                                    |                              |
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u>  |  | <b>Type Code Symbol Stamp</b><br>N/A  |                     |                      |            |                                    |                              |
|  |  | <b>Authorization Number</b><br>N/A    |                     |                      |            |                                    |                              |
|  |  | <b>Expiration Date</b><br>N/A         |                     |                      |            |                                    |                              |
| <b>4. Identification of System</b><br>Diesel Generator Air Coolant Heat Exchanger  |  |                                       |                     |                      |            |                                    |                              |
| <b>5.</b><br>(a) Applicable Construction Code: <u>ASME Section III,</u> 19 <u>71</u> Edition <u>N/A</u> Addenda, <u>N/A</u> Code Case<br>(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>89</u> Edition <u>N/A</u> Addenda, <u>N/A</u> Code Case       |  |                                       |                     |                      |            |                                    |                              |
| <b>6. Identification of Components Repaired or Replaced and Replacement Components:</b>  |  |                                       |                     |                      |            |                                    |                              |
| Name of Component  | Name of Manufacturer   | Manufacturer Serial Number            | National Board No.  | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
| Studs  | American Standard  | 6-61342-02-1                          | 23892               | FNP231               | 1973       | Replaced                           | Yes                          |
| Nuts   | American Standard  | 6-61342-02-1                          | 23892               | FNP231               | 1973       | Replaced                           | Yes                          |
|  |  |                                       |                     |                      |            |                                    |                              |
| Studs (6ea)  | T&T Enterprises  | 731500/AQN                            | N/A                 | QP060354             | 2004       | Replacement                        | No                           |
| Nuts (12ea)  | T&T Enterprises  | HY5938/LWE                            | N/A                 | QP060354             | 2006       | Replacement                        | No                           |
| Studs (2ea)  | T&T Enterprises  | 731500/AQN                            | N/A                 | QP060283             | 2004       | Replacement                        | No                           |
| Nuts (4ea)   | Mackson  | 7307732/AQO                           | N/A                 | QP060283             | 2006       | Replacement                        | No                           |
|  |  |                                       |                     |                      |            |                                    |                              |
|  |  |                                       |                     |                      |            |                                    |                              |
| <b>7. Description of Work</b><br>During inspection of the 2C Diesel Generator Air Coolant Heat Exchanger (QSR43H0513), several studs and nuts were damaged during removal. All studs and nuts were replaced with new studs and nuts. Ref: Transaction # 99119                |  |                                       |                     |                      |            |                                    |                              |
| <b>8. Test Conducted</b><br><input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Normal Operating Pressure <input checked="" type="checkbox"/> None <input type="checkbox"/> Other<br>Pressure _____ PSI    Temperature _____ °F |  |                                       |                     |                      |            |                                    |                              |

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       |              |
| R43 - S062792701 | Sheet 2 of 2 |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 The original bolting was not manufactured to ASME standards. They were manufactured to ASTM standards. It is acceptable to use ASME bolting of the same specification in ASTM applications.

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### Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date \_\_\_\_\_ N/A

Signed Ron Jahn Maintenance Manager Date 5/19/07  
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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period SEPT. 26, 2006 to MAY 31, 2007, 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 loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NH 734 AIN  
National Board, State, Province, and Endorsements

Date 5/31/07

# Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType : L1.52

|                                |              |
|--------------------------------|--------------|
| Job Number<br>E21 - 2070505701 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                            |
|---|--|----------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | <b>Unit</b><br>FNP 2       |
|   |  | <b>Date</b><br>May 1, 2007 |

|   |                                      |
|---|--------------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | <b>Type Code Symbol Stamp</b><br>N/A |
|   | <b>Authorization Number</b><br>N/A   |
|   | <b>Expiration Date</b><br>N/A        |

**4. Identification of System**  
 Charging/High Head Safety Injection System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1971 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N416-1 Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component   | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|---------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Pipe Spool Weld "B" | ITT Grinnell         | JG19-64                    | N/A                | FNP2-26              | 1975       | Replacement                        | Yes                          |
|                     |                      |                            |                    |                      |            |                                    |                              |
|                     |                      |                            |                    |                      |            |                                    |                              |
|                     |                      |                            |                    |                      |            |                                    |                              |
|                     |                      |                            |                    |                      |            |                                    |                              |
|                     |                      |                            |                    |                      |            |                                    |                              |
|                     |                      |                            |                    |                      |            |                                    |                              |
|                     |                      |                            |                    |                      |            |                                    |                              |
|                     |                      |                            |                    |                      |            |                                    |                              |
|                     |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 To facilitate removal and reinstallation of the 2A charging pump on work order 2070140201, weld "B" as shown on D515377 (reference # 34) was cut out prior to removal of the pump and re-welded after reinstallation of the pump. This weld was radiographed on work order 2070505703.

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType : L1.52

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| E21 - 2070505701 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Code case N416-1 was utilized to permit performance of an inservice pressure test at normal system pressure and temperature in lieu of a hydrostatic test at an elevated pressure.

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### Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed *Ron Zyl* for Maintenance Manager Date 5/19/07  
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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period MARCH 12, 2007 to MAY 31, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]* Commissions NH 734 AIN  
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/31/07

**FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING** Sheet 1 of 4  
(As Required by the Provisions of the ASME Code Rules)

1. Fabricated by ITT Grinnell Industrial Piping, Inc. Order No. A-0140  
(Name and Address of Fabricator) Kernersville, N.C.

2. Fabricated for Alabama Power Company, Birmingham, Ala. Order No. ANP-2-20  
(Name and Address)

3. Owner Alabama Power Company 4. Location of Plant Columbia, Alabama

5. Piping System Identification CHEMICAL & Volume Control Sys. Aux. Bldg.  
(Brief description of intended use, main coolant, etc.)

(a) Drawing No. 16-196-69 Prepared by ITT Grinnell Industrial Piping, Inc.  
(b) National Board No. N/A

6. Design Conditions of Piping N/A psi N/A °F  
(Pressure) (Temp.)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class N-2  
Edition 1971, Addenda Date Summer 1971, Case No. N/A

Remarks: Manufacturers' Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report N/A  
(Name of Part - Item number, Manufacturer's name, and identifying stamp)

Supplemental Sheets #2, #3, #4 --- Drawing  
--- Bill(s) of Material

8. Shop Hydrostatic Test Field psi.

9. Description of piping inspected Piece Mark No. (2) E21-CCB-16-2  
(Include - mark no. - material spec. - nom. pipe size - schedule or thickness - length - fittings - flanges, etc.)  
See Attached Sheets

**CERTIFICATION OF DESIGN (WHEN APPLICABLE)**

Design information on file at N/A  
Stress analysis report on file at N/A  
Design specifications certified by N/A (1) Prof. Eng. State N/A Reg. No. N/A  
Stress analysis report certified by N/A (1) Prof. Eng. State N/A Reg. No. N/A  
(1) signature not required, list name only.

We certify that the statements made in this report are correct and that this ~~report~~ conforms to the rules of construction of the ASME Code Section III. ITT Grinnell Fabrication  
Date 3-3-75 Signed Industrial Piping, Inc. By Jessie M. [Signature]  
Inc. MEMPHIS  
Certificate of Authorization Expires 5-3-76 Fabricator Certificate of Authorization No. N-625

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Maryland and employed by \* of Hartford, CT. have inspected the piping described in this Data Report on 3/4/75 and state that to the best of my knowledge and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code, Section III. \*The Hartford Steam Boiler Inspection and Insurance Company  
By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concerning the piping in this Data 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.  
Date March 4, 1975 Commissions Maryland-140 S-2-A18.05 FNP 2-20  
[Signature] National Board, State, Province and No.

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) also in 8 1/2" x 11", (2) information in Items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 7. "Remarks".  
Printed in U.S.A. (6/72) This form (E62) is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017



# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       |              |
| P16 - 2062006501 | Sheet 2 of 2 |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Bonnet serial numbers represent the serial numbers of the entire valves.

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## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ran Jahn Maintenance Manager Date 5/21/07  
 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 NEW HAMPSHIRE and employed by TSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period DEC. 7, 2006 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NA 734 AIN  
 National Board, State, Province, and Endorsements

Date 5/31/07





# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2070902501 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                      |
|---|--|----------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2        |
|   |  | Date<br>May 11, 2007 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Winter 1971 Addenda, 1555 & 1554 Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component           | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-----------------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Relief Valve - Model Lcr-20 | Lonergan             | 210289-4-2                 | N/A                | FNP2-51              | 1977       | Replaced                           | Yes                          |
| Relief Valve - Series 900   | AG Crosby            | N99904-00-0001             | N/A                | QP050509             | 2005       | Replacement                        | Yes                          |
|                             |                      |                            |                    |                      |            |                                    |                              |
|                             |                      |                            |                    |                      |            |                                    |                              |
|                             |                      |                            |                    |                      |            |                                    |                              |
|                             |                      |                            |                    |                      |            |                                    |                              |
|                             |                      |                            |                    |                      |            |                                    |                              |
|                             |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 Relief valve Q2P16V0208B was leaking by approximately 10 drops per minute. The valve was replaced with a new valve. The replacement valve design was approved by C051731401. Ref: Transaction # 113303

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       |              |
| P16 - 2070902501 | Sheet 2 of 2 |

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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## Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed Ron Igen Maintenance Manager Date 5/19/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 16, 2007 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature] Commissions NH 734 AIN  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 5/31/07

REPLACEMENT

Q.C.-44C-1  
Sheet 1 of 2

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES

As required by the Provisions of the ASME Code Rules

DATA REPORT

1. Manufactured By Anderson Greenwood Crosby, 43 Kendrick St., Wrentham, MA 02093  
Name and Address

Model No. 9721851E Order No. U944270000 Contract Date 07/27/05 National Board No. ---

2. Manufactured For ALABAMA POWER COMPANY Order No. QP050509/001  
Name and Address

3. Owner ALABAMA POWER COMPANY  
Name and Address

4. Location of Plant FARLEY NUCLEAR PLANT

5. Valve Identification 163630F Serial No. N99904-00-0001 Drawing No. DS-C-99904 REV. A

Type SAFETY RELIEF Orifice Size 0.529 Pipe Size --- Inlet 1.5 Outlet 2  
Safety, Safety Relief, Pilot, Power Actuated Inch Inch Inch

6. Set Pressure (PSIG) 154 105 ° F  
Rated Temperature

Stamped Capacity 71 GPM WATER @ 70 DEG.F @ 10% % Overpressure -- Blowdown (psig) 20%

Hydrostatic Test (PSIG) Inlet 425 Complete Valve 100

7. The material, design, construction and workmanship comply with ASME Code, Section III.

Class 2 Edition 1974 Addenda Date SUMMER 1975 Case No. N/A

Pressure Containing or Pressure Retaining Components

|                           | Serial No.<br>Identification                | Material Specification<br>Including Type or Grade |
|---------------------------|---|---|
| a. Castings               |   |   |
| Body                      | _____                                       | _____   |
| Bonnet                    | _____                                       | _____   |
| b. Bar Stock and Forgings |   |   |
| Support Rods              | ---   | ---   |
| Nozzle                    | _____                                       | _____   |
| Disc                      | <u>N99915-NGUC</u><br><u>N96444-71-0420</u> | <u>ASME SA479 TYPE 316</u>                        |
| Spring Washers            | <u>N96444-72-0425</u>                       | <u>ASME SA193 GR. B6</u>                          |
| Adjusting Bolt            | <u>N96388-68-0308</u>                       | <u>ASME SA193 GR. B6</u>                          |
| Spindle                   | <u>N96386-67-0223</u>                       | <u>ASME SA193 GR. B6</u>                          |

|   | Serial No. Identification | Material Specification Including Type or Grade |
|---|---------------------------|--|
| c. Spring                               | <u>NX5484-0083</u>        | <u>ASTM A313 TYPE 316</u>                      |
| d. Bolting                              | <u>---</u>                | <u>---</u>                                     |
| e. Other Parts such as Pilot Components |                           |  |
| Base                                    | <u>N99913-33-0006</u>     | <u>ASME SA479 TYPE 316</u>                     |
| Lap Joint Stub End                      | <u>N99865-33-0006</u>     | <u>ASME SA182 GR. F316</u>                     |
| Lap Joint Flange                        | <u>N96442-43-0029</u>     | <u>ASME SA182 GR. F316</u>                     |
| Cylinder                                | <u>N99914-34-0008</u>     | <u>ASME SA351 GR. CF8M</u>                     |
| Weld Neck Flange                        | <u>N99866-33-0007</u>     | <u>ASME SA182 GR. F316</u>                     |
|   |                           |  |
|   |                           |  |
|   |                           |  |
|   |                           |  |
|   |                           |  |

We certify that the statements made in this report are correct.

Date 22-DEC 2005 Signed Anderson Greenwood Crosby  
Wrentham, MA By D. E. T...  
Manufacturer

Certificate of Authorization No. N-1878 Expires 30-Sep-07  
Date

**CERTIFICATE OF SHOP 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 MA and employed by

HSB - CT

have inspected the equipment described in this Data Report on

12-21-2005

and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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.

Date JAN 12 2006  
[Signature] Commissions MA-1420 A, N, I  
(Inspector) (National Board, State, Province and No.)

# Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType : L1.52

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2041669503 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                             |
|---|--|-----------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | <b>Unit</b><br>FNP 2        |
|   |  | <b>Date</b><br>May 29, 2006 |

|   |                                      |
|---|--------------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | <b>Type Code Symbol Stamp</b><br>N/A |
|   | <b>Authorization Number</b><br>N/A   |
|   | <b>Expiration Date</b><br>N/A        |

**4. Identification of System**  
 Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 68 Edition Winter 1970 Addenda,          Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Disc              | Darling Valve        | E-5314-14-5                | N/A                | FNP2-18              | 1973       | Repaired                           | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 During a routine inspection of Q2P16V0556, severe corrosion was noted on the disc post. A weld repair was performed to re-establish the post on the disc.

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType: L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| P16 - 2041669503 |              |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Disc Heat Number - 211419  
 Disc Serial Number - 7

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## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed *Ra Jhu* Maintenance Manager Date 5/21/07  
 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 NEW HAMPSHIRE and employed by HEB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period MAY 23, 2006 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]*  
 Inspector's Signature

Commissions NH 734 AIN  
 National Board, State, Province, and Endorsements

Date 5/30/07

FORM NPS-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Darling Valve & Manufacturing Co.  
(Name & Address of Manufacturer)  
701 First St., Williamsport, Pa. 17701 Order No. E-5314

2. Manufactured for Alabama Power Company  
(Name and Address)  
Birmingham, Alabama Order No. FNP2-18

3. Owner Joseph M. Farley Nuclear Plant Unit 2

4. Location of Plant Dothan, Alabama

5. ~~Valve~~ Valve Identification E-5314-14-5 T.P. No. Q2P16V556  
20" - 150# Check Valve  
(Brief description of service for which equipment was designed)  
Service Water Piping System - Service Water Pump Discharge

(a) Drawing No. 93-13395 Rev. B Prepared by L. Zay

(b) National Board No. N/A

6. Design Conditions 150 psi 500 °F  
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 3

Edition 1968, Addenda Date Winter 1970, Code No. \_\_\_\_\_

| Mark No.                                   | Material Spec. No. | Manufacturer                 | Remarks |
|--|--------------------|------------------------------|---------|
| (a) Castings                               |                    |                              |         |
| <u>Body Heat F1297</u><br><u>Serial 4</u>  | <u>SA-216-WCB</u>  | <u>Quaker Alloy</u>          |         |
|  |                    |                              |         |
|  |                    |                              |         |
|  |                    |                              |         |
| (b) Forgings                               |                    |                              |         |
| <u>Disc Heat 211419</u><br><u>Serial 7</u> | <u>SA-105-2</u>    | <u>Cann &amp; Saul Steel</u> |         |
|  |                    |                              |         |
|  |                    |                              |         |
|  |                    |                              |         |

*L. W. Schaefer*  
 BECHTEL  
 5/10/73

Q2A-18.05  
 Q-2-A18.05-FNP-2-18

0504110942

FORM NPV-1 (back)

| Mark No.   | Material Spec. No. | Manufacturer                       | Remarks |
|--|--------------------|------------------------------------|---------|
| (c) <b>Rolling</b><br><b>Body-Bonnet Studs</b><br><b>Heat 3301465</b>                      | <b>SA-193-B7</b>   | <b>REC Corporation</b>             |         |
| <b>Body-Bonnet Nuts</b><br><b>Heat 123H398</b>   | <b>SA-194-7</b>    | <b>Jos. Dyson &amp; Sons, Inc.</b> |         |
| (d) <b>Other Parts</b><br><b>(Plate) Bonnet</b><br><b>Heat 432J4471</b><br><b>Serial 5</b> | <b>SA-515-70</b>   | <b>Bethlehem Steel</b>             |         |

Hydraulic test 150 psi.

CERTIFICATION OF DESIGN

Design information on file at Alabama Power Co., Birmingham, Alabama  
 Stress analysis report on file at N/A Class 3  
 Design specifications certified by Sabin Crocker, Jr. (1) Prof'ing. State Conn. Reg. No. 7503  
 Stress analysis report certified by N/A Class 3 (1) Prof'ing. State \_\_\_\_\_ Reg. No. \_\_\_\_\_  
 (1) Signature not required; list name only.

We certify that the statements made in this report are correct.

Date May 7 19 73 Signed Darling Valve & Mfg. Co., Inc. R. L. Stanner  
 (Manufacturer) R. L. Stanner  
 Certificate of Authorization No. N259 expires 3/9/74

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on May 7 19 73 and state that to the best of my knowledge and belief the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section II.  
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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.

Date May 7 19 73

Russell E. Montgomery Commission Pennsylvania WC972  
 (Inspector) (National Board, State, Province and No.)  
Russell E. Montgomery

Q2A 18.05

050411943

*W.W. Snyder*  
 Bechtel  
 5/10/73

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|  |  | <b>Job Number</b><br>P12 - 2041167001 | <b>Sheet</b> 1 <b>of</b> 2 |                      |            |                                    |                              |
|--|--|---------------------------------------|----------------------------|----------------------|------------|------------------------------------|------------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company)  | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | <b>Unit</b><br>FNP 2                  |                            |                      |            |                                    |                              |
|  |  | <b>Date</b><br>June 9, 2006           |                            |                      |            |                                    |                              |
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u>  |  | <b>Type Code Symbol Stamp</b><br>N/A  |                            |                      |            |                                    |                              |
|  |  | <b>Authorization Number</b><br>N/A    |                            |                      |            |                                    |                              |
|  |  | <b>Expiration Date</b><br>N/A         |                            |                      |            |                                    |                              |
| <b>4. Identification of System</b><br>Reactor Makeup Water System  |  |                                       |                            |                      |            |                                    |                              |
| <b>5.</b><br>(a) Applicable Construction Code: <u>ASME Section III,</u> 19 <u>71</u> Edition <u>Winter 1972</u> Addenda, <u>N/A</u> Code Case<br>(b) Applicable Section XI Utilized For Repairs Or Replacements. 19 <u>89</u> Edition <u>N/A</u> Addenda, <u>N/A</u> Code Case |  |                                       |                            |                      |            |                                    |                              |
| <b>6. Identification of Components Repaired or Replaced and Replacement Components:</b>  |  |                                       |                            |                      |            |                                    |                              |
| Name of Component  | Name of Manufacturer   | Manufacturer Serial Number            | National Board No.         | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
| Back Pull Out Assembly   | Goulds   | N726B306-1.2 SPARE                    | 60                         | FNP2-169             | 1975       | Replaced                           | Yes                          |
| Back Pull Our Assembly   | Goulds   | 443103                                | N/A                        | QP960527             | 1997       | Replacement                        | Yes                          |
|  |  |                                       |                            |                      |            |                                    |                              |
|  |  |                                       |                            |                      |            |                                    |                              |
|  |  |                                       |                            |                      |            |                                    |                              |
|  |  |                                       |                            |                      |            |                                    |                              |
|  |  |                                       |                            |                      |            |                                    |                              |
|  |  |                                       |                            |                      |            |                                    |                              |
|  |  |                                       |                            |                      |            |                                    |                              |
|  |  |                                       |                            |                      |            |                                    |                              |
| <b>7. Description of Work</b><br>The back pull out assembly of Q2P12P001B was replaced as a part of a regularly scheduled PM. The replacement back pull out assembly was previously refurbished on WO 2052961701. Ref: Transaction # 94088                                     |  |                                       |                            |                      |            |                                    |                              |
| <b>8. Test Conducted</b><br><input type="checkbox"/> Hydrostatic <input type="checkbox"/> Pneumatic <input checked="" type="checkbox"/> Normal Operating Pressure <input type="checkbox"/> None <input type="checkbox"/> Other<br>Pressure _____ PSI    Temperature _____ °F   |  |                                       |                            |                      |            |                                    |                              |

# Form NIS-2 Owner's Report for Repairs or Replacements

As required by the provisions of the ASME Code Section XI

RType : L1.52

|                  |              |
|------------------|--------------|
| Job Number       |              |
| P12 - 2041167001 | Sheet 2 of 2 |

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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## Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed Ron J... Maintenance Manager Date 5/21/07  
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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period MAY 25, 2006 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NH 734 AIN  
National Board, State, Province, and Endorsements

Date 5/30/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2070419701 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                       |
|---|--|-----------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2         |
|   |  | Date<br>March 8, 2007 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1971 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements. 19 89 Edition N/A Addenda, N416-1 Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer        | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|-----------------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Valve             | Kerotest                    | J02-17                     | N/A                | FNP2-55              | 1975       | Replaced                           | Yes                          |
| Pipe              | Daniel Construction Company | Q2P16HBC200-E5579          | N/A                | 7071                 | 1979       | Repalced                           | Yes                          |
| Elbow             | Daniel Construction Company | Q2P16HBC200-E5579          | N/A                | 7071                 | 1979       | Rcpalced                           | Yes                          |
|                   |                             |                            |                    |                      |            |                                    |                              |
| Valve             | Flowserve                   | 09AYS                      | N/A                | QP030639             | 2004       | Replacement                        | Yes                          |
| Pipe              | Michigan Seamless Tube      | 001M35684                  | N/A                | QP040263             | 2003       | Replacement                        | No                           |
| Elbow             | Bonney Forge                | 76259                      | N/A                | QP060186             | 2005       | Replacement                        | No                           |
|                   |                             |                            |                    |                      |            |                                    |                              |
|                   |                             |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 2D Service Water Pump Vent line (Q2P16HBC200-E5579) had a pin hole leak due to corrosion. A new piping assembly was fabricated (including valve Q2P16V588) and installed. Ref: Transaction # 107417

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       |              |
| P16 - 2070419701 | Sheet 2 of 2 |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 SS1109-2 approved piping and fitting materials and code years.

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## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ron Zylar Maintenance Manager Date 5/21/07  
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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period MARCH 3, 2007 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH 734 A-IN  
 National Board, State, Province, and Endorsements

Date 5/30/07

NEW VALVE

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\*  
As Required by the Provisions of the ASME Code, Section III, Div. 1

- 1. Manufactured by Flowserve Corporation, 1900 S. Saunders St., Raleigh, NC 27603  
(Name and Address of N Certificate Holder)
- 2. Manufactured for Alabama Power Company PO Box 2641 Birmingham, AL 25291  
(Name and Address of Purchaser or Owner)
- 3. Location of Installation Farley Nuclear Plant 7388 N. State Highway 95, Columbia, AL 36319  
(Name and Address)
- 4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"  
(inch) (inch)

|      | (a) Model No. Series No. or Type | (b) N Certificate Holder's Serial No. | (c) Canadian Registration No. | (d) Drawing No.      | (e) Class | (f) Nat'l. Bd. No. | (g) Year Built |
|------|----------------------------------|---------------------------------------|-------------------------------|----------------------|-----------|--------------------|----------------|
| (1)  | 600#                             | 09AYS                                 | N/A                           | AL-D-9910X02-(3) R/H | 3         | N/A                | 2004           |
| (2)  | 600#                             | 10AYS                                 | N/A                           | AL-D-9910X02-(3) R/H | 3         | N/A                | 2004           |
| (3)  |                                  |                                       |                               |                      |           |                    |                |
| (4)  |                                  |                                       |                               |                      |           |                    |                |
| (5)  |                                  |                                       |                               |                      |           |                    |                |
| (6)  |                                  |                                       |                               |                      |           |                    |                |
| (7)  |                                  |                                       |                               |                      |           |                    |                |
| (8)  |                                  |                                       |                               |                      |           |                    |                |
| (9)  |                                  |                                       |                               |                      |           |                    |                |
| (10) |                                  |                                       |                               |                      |           |                    |                |

- 5. 2" 600# Y-Globe Valve  
(Brief description of service for which equipment was designed) 26197

- 6. Design Conditions 1250 psi 500 °F or Valve Pressure Class 600 (1)  
(Pressure) (Temperature)
- 7. Cold Working Pressure 1440 psi at 100 °F.
- 8. Pressure Retaining Pieces

| Mark No.            | Material Spec. No. | Manufacturer | Remarks |
|---------------------|--------------------|--------------|---------|
| <b>(a) Castings</b> |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
|                     |                    |              |         |
| <b>(b) Forgings</b> |                    |              |         |
| FS8                 | SA 105             | Flowserve    | Body    |
| H868                | SA-479 type 316    | Nova         | Bonnet  |
| 719973              | SA-479 type 316    | Flowserve    | Bonnet  |
| 725567              | SA-479 type 316    | Flowserve    | Disc    |
| H604                | SA105              | Nova         | Yoke    |
|                     |                    |              |         |
|                     |                    |              |         |

(1) For manually operated valves only  
\*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

2



# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>N21 - 2052899401 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                     |
|---|--|---------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2       |
|   |  | Date<br>May 7, 2007 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
Condensate And Feed Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 74 Edition N/A Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Reducing Tee      | Grinnel              | JG18-28                    | N/A                | FNP2-26              | 1979       | Repaired                           | Yes                          |
| Reducer           | Grinnell             | JG11-167                   | N/A                | FNP2-26              | 1979       | Repaired                           | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 Excessive weld grinding during construction on the weld between the 14"x14"x10" reducing Tee and the 10"x8" reducer has resulted in a weld crown being below the surface of the adjoining base metal. Post-repair PT, UT, and RT verified proper wall thicknesses and sound weld. Ref: U213409, D515491

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       | Sheet 2 of 2 |
| N21 - 2052899401 |              |

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ron Zha Maintenance Manager Date 5/23/07  
Owner or Owner's Designer, 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period APRIL 16, 2007 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

Inspector's Signature [Signature] Commissions NH 734 A IN  
National Board, State, Province, and Endorsements

Date 5/30/07

**FORM NFP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING** Sheet 1 of 4  
(As Required by the Provisions of the ASME Code Rules)

1. Fabricated by ITT Grinnell Industrial Piping, Inc. Order No. A-0140  
(Name and Address of Fabricator) Kernersville, N.C.

2. Fabricated for Alabama Power Company, Birmingham, Ala. Order No. FNP-2-26  
(Name and Address)

3. Owner Alabama Power Company 4. Location of Plant Columbia, Alabama

5. Piping System Identification Condensate Piping  
(Brief description of intended use, main coolant etc.)

(a) Drawing No. JG-18024 Prepared by ITT Grinnell Industrial Piping, Inc.  
(b) National Board No. N/A

6. Design Conditions of Piping N/A psi N/A °F  
(Pressure) (Temp.)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class N-2  
Edition 1971 Addenda Date Summer 1971 Case No. N/A

Remarks: Manufacturers' Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report N/A  
(Name of Part - Item number, Manufacturer's name, and identifying stamp)

Supplemental Sheets 2 Drawing  
3/4 Bill(s) of Material

8. Shop Hydrostatic Test Field psi

9. Description of piping inspected Place Mark No. (2) N-1-050-1-10  
(include - mark no. - material spec. - nom. pipe size - schedule or thickness - length  
- (fittings - flanges, etc.) See Attached Sheets

**RECEIVED**  
MAR 10 1975  
**QCDS**

**CERTIFICATION OF DESIGN (WHEN APPLICABLE)**

Design information on file at N/A

Stress analysis report on file at N/A

Design specifications certified by N/A (1) Prof. Eng. State N/A Reg. No. N/A

Stress analysis report certified by N/A (1) Prof. Eng. State N/A Reg. No. N/A

(1) signature not required, list name only.

We certify that the statements made in this report are correct and that this fabrication conforms to the rules of construction of the ASME Code Section III, ITT Grinnell Industrial Piping, Inc.

Date 2-25-75 Signed Industrial Piping, Inc. By James H. [Signature]

Certificate of Authorization Expires 5-3-76 Fabricator ITT Grinnell Industrial Piping, Inc. Certificate of Authorization No. N-625

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Maryland and employed by Hartford, CT.

have inspected the piping described in this Data Report on 2/10/75 and state that to the best of my knowledge and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code, Section III. The Hartford Steam Boiler Inspection and Insurance Company

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the piping in this Data 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.

Date Feb. 10, 1975

(Inspector) [Signature] Commissions Maryland-140 Q-2-A18.05 FNP 2-26

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 7, "Remarks".

0507400560

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2061229101 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                      |
|---|--|----------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2        |
|   |  | Date<br>May 10, 2006 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1971 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 89 Edition N/A Addenda, N416-1 Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer            | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|---------------------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Pipe              | ITT Grinnell                    | 26227                      | N/A                | FNP2-26              | 1974       | Replaced                           | Yes                          |
| Elbow             | ITT Grinnell                    | AHVV                       | N/A                | FNP2-26              | 1974       | Replaced                           | Yes                          |
| Weld Neck Flange  | Youngstown Steel & Tube Company | GAWL                       | N/A                | FNP2-26              | 1973       | Replaced                           | Yes                          |
|                   |                                 |                            |                    |                      |            |                                    |                              |
| Pipe              | US Steel Corp                   | 4M0093                     | N/A                | QP0840               | 1985       | Replacement                        | No                           |
| Elbow             | Energy & Process Corp           | N984B                      | N/A                | QP060465             | 2004       | Replacement                        | No                           |
| Flange            | Western Forge & Flange Co.      | 21E078                     | N/A                | QP060469             | 2005       | Replacement                        | No                           |
|                   |                                 |                            |                    |                      |            |                                    |                              |
|                   |                                 |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 A through wall leak developed in Q2P16HBC204-11 due to crosion at an elbow. This piping spool was replaced with a new piping spool. Ref: Transaction # 92428, 92403

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|            |                  |              |
|------------|------------------|--------------|
| Job Number | P16 - 2061229101 | Sheet 2 of 2 |
|------------|------------------|--------------|

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Original parts were stamped as a part of piping spool JG-4(J)-753 (Q2P16HBC204-11)

Code case N416-1 was utilized to permit performance of an inservice pressure test at normal system pressure and temperature in lieu of a hydrostatic test at an elevated pressure.

## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ron Maintenance Manager Date 5/23/07  
 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 NEW HAMPSHIRE and employed by HSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period MAY, 2006 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH MA AIN  
 National Board, State, Province, and Endorsements

Date 5/30/07

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - M300341101 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                       |
|---|--|-----------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2         |
|   |  | Date<br>April 9, 2006 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System** Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 1971 Addenda. N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements. 19 89 Edition N/A Addenda. N416-1 Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Valve             | Kerotest             | CS6-9                      | N/A                | FNP2-55              | 1975       | Replaced                           | Yes                          |
| Pipe              | Daniel Construction  | Q2P16HBC201                | N/A                | N/A                  | 1979       | Replaced                           | Yes                          |
| Elbow             | Daniel Construction  | Q2P16HBC201                | N/A                | N/A                  | 1979       | Replaced                           | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
| Valve             | Flowserve            | 51BAA                      | N/A                | QP040348             | 2004       | Replacement                        | Yes                          |
| Pipe              | USS Tubular          | N86918                     | N/A                | QP020509             | 1994       | Replacement                        | No                           |
| Elbow             | Bonney Forge         | 76259                      | N/A                | QP060186             | 2005       | Replacement                        | No                           |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 During inspection of Valve Box 1. Vacuum breaker Q2P16V602 was found to have seat leakage. The valve cover could not be removed for disc replacement, so the entire valve was replaced. As a convenience, the entire line down stream of the "T" was replaced. The PR on SS10886 was removed/installed by welding to facilitate valve replacement. Ref: Transaction # 57868, 85475

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       |              |
| P16 - M300341101 | Sheet 2 of 2 |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Code case N416-1 was utilized to permit performance of an inservice pressure test at normal system pressure and temperature in lieu of a hydrostatic test at an elevated pressure.

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### Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed *Ra Jhr* Maintenance Manager Date 5/23/07  
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 NEW HAMPSHIRE and employed by HSSB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period FEB. 27, 2006 to MAY 30, 2007, 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 loss of any kind arising from or connected with this inspection.

*[Signature]* Commissions NA 734 AIN  
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/30/07

**FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\***  
As Required by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by Flowserve Corporation, 1900 S. Saunders St., Raleigh, NC 27603  
(Name and Address of N Certificate Holder)

2. Manufactured for ALABAMA POWER COMPANY, P.O. 1295, BIRMINGHAM AL 35201  
(Name and Address of Purchaser or Owner)

3. Location of Installation ALABAMA POWER CO., FARLEY PLANT, COLUMBIA, AL 36319  
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 2" Outlet Size 2"  
(inch) (inch)

|      | (a) Model No. Series No. or Type | (b) N Certificate Holder's Serial No. | (c) Canadian Registration No. | (d) Drawing No.    | (e) Class | (f) Nat'l. Bd. No. | (g) Year Built |
|------|----------------------------------|---------------------------------------|-------------------------------|--------------------|-----------|--------------------|----------------|
| (1)  | 600-YP                           | 49BAA                                 | N/A                           | AL-D-9912X01(2)/ E | 2         | N/A                | 2004           |
| (2)  | 600-YP                           | 50BAA                                 | N/A                           | AL-D-9912X01(2)/ E | 2         | N/A                | 2004           |
| (3)  | 600-YP                           | 51BAA                                 | N/A                           | AL-D-9912X01(2)/ E | 2         | N/A                | 2004           |
| (4)  |                                  |                                       |                               |                    |           |                    |                |
| (5)  |                                  |                                       |                               |                    |           |                    |                |
| (6)  |                                  |                                       |                               |                    |           |                    |                |
| (7)  |                                  |                                       |                               |                    |           |                    |                |
| (8)  |                                  |                                       |                               |                    |           |                    |                |
| (9)  |                                  |                                       |                               |                    |           |                    |                |
| (10) |                                  |                                       |                               |                    |           |                    |                |

NEW VALVE

5. **2" Y-TYPE CHECK VALVE**  
(Brief description of service for which equipment was designed)

\* PARTS MADE FROM SA105 MATERIAL CAN BE SECTION II MATERIAL TO ANY EDITION THROUGH THE 1995 ADDENDA 29493

6. Design Conditions 1250 psi 500 °F or Valve Pressure Class 600 (1)  
(Pressure) (Temperature)

7. Cold Working Pressure 1440 psi at 100 °F.

8. Pressure Retaining Pieces

| Mark No.            | Material Spec. No. | Manufacturer     | Remarks |
|---------------------|--------------------|------------------|---------|
| <b>(a) Castings</b> |                    |                  |         |
|                     |                    |                  |         |
|                     |                    |                  |         |
|                     |                    |                  |         |
|                     |                    |                  |         |
| <b>(b) Forgings</b> |                    |                  |         |
| 79933               | SA 105             | Larson           | BODY    |
| 8976327             | SA 105             | Colonial Machine | COVER   |
| ZDH                 | SA479-316          | Mid-South        | DISC    |
|                     |                    |                  |         |
|                     |                    |                  |         |
|                     |                    |                  |         |
|                     |                    |                  |         |

(1) For manually operated valves only  
\*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.



# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                                |              |
|--------------------------------|--------------|
| Job Number<br>P16 - 2063312701 | Sheet 1 of 2 |
|--------------------------------|--------------|

|   |  |                          |
|---|--|--------------------------|
| <b>1. Owner</b><br>Southern Nuclear Operating Company<br>40 Inverness Center Parkway<br>Birmingham, Alabama 35242<br>(as agent for Alabama Power Company) | <b>2. Plant</b><br>Farley Nuclear Plant<br>Highway 95 South<br>Columbia, Alabama 36319 | Unit<br>FNP 2            |
|   |  | Date<br>January 28, 2007 |

|   |                               |
|---|-------------------------------|
| <b>3. Work performed by</b><br><br>Name : <u>Southern Nuclear Operating Company Maintenance Department</u><br><br>Address : <u>Joseph M. Farley Nuclear Plant</u> | Type Code Symbol Stamp<br>N/A |
|   | Authorization Number<br>N/A   |
|   | Expiration Date<br>N/A        |

**4. Identification of System**  
Service Water System

**5.**  
 (a) Applicable Construction Code: ASME Section III, 19 71 Edition Winter 1971 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements. 19 89 Edition N/A Addenda, N/A Code Case

**6. Identification of Components Repaired or Replaced and Replacement Components:**

| Name of Component | Name of Manufacturer | Manufacturer Serial Number | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes / No) |
|-------------------|----------------------|----------------------------|--------------------|----------------------|------------|------------------------------------|------------------------------|
| Expansion Joint   | Tube Turns           | 49806                      | N/A                | FNP2-93              | 1975       | Replaced                           | Yes                          |
| Expansion Joint   | Senior Flexonics     | J17230-1-1                 | N/A                | QP020260             | 2004       | Replacement                        | Yes                          |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |
|                   |                      |                            |                    |                      |            |                                    |                              |

**7. Description of Work**  
 During the performance of a VT-2 on the 2E Service Water Pump, a 2 drop per minute leak was observed on the expansion joint (Q2P16F0502E) at the flange to bellows welded connection. The expansion joint was replaced with a new expansion joint. Ref: Transaction # 104540

**8. Test Conducted**  
 Hydrostatic     Pneumatic     Normal Operating Pressure     None     Other  
 Pressure \_\_\_\_\_ PSI    Temperature \_\_\_\_\_ °F

# Form NIS-2 Owner's Report for Repairs or Replacements

RType : L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       |              |
| P16 - 2063312701 | Sheet 2 of 2 |

9. Remarks (Applicable Manufacturer's Data Reports to be attached)

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## Certificate of Compliance

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

Certificate of Authorization Number \_\_\_\_\_ N/A Expiration Date \_\_\_\_\_ N/A

Signed Ron Zylm Maintenance Manager Date 5/21/07  
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 NEW HAMPSHIRE and employed by HESB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period JAN. 18, 2007 to MAY 29, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature] Commissions NH 734 AIN  
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/29/07

**FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED  
NUCLEAR PIPING SUBASSEMBLIES\***

As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 1

Job Number: N407 Sales Order Number: J17230 Tough Group P.O. No.: OP020260/004 Item Number: 001

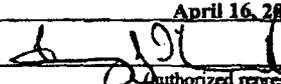
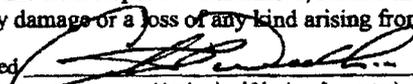
1. Fabricated and certified by Senior Flexonics Pathway Division, 2400 Longhorn Industrial Drive, New Braunfels, Texas 78130  
(name and address of NPT Certificate Holder)
2. Fabricated for Southern Nuclear Operating Company/Alabama Power, PO Box 1295, Birmingham, AL 35201  
(name and address)
3. Location of installation Farley Nuclear Plant, 7388 N. State Highway 95, Columbia, AL 36319  
(name and address of Purchaser)
4. Type J17230-1-1 N/A D-57916 Rev. 2 N/A 2004  
(Cert. Holder's serial no.) CRN (drawing no.) (Nat'l Bd. No.) (year built)
5. ASME Code, Section III, Division 1: 1980 Summer 1982 3 N-369  
(edition) (addenda date) (class) (Code Case no.)
6. Shop Hydrostatic test 225 psi at Ambient ° F (if performed)
7. Description of piping 18" Tied Expansion Joint Assembly

8. Certificate Holder's Data Reports properly identified and signed by commissioned inspectors have been furnished for the following items of this report: None

9. Remarks: Materials

| Drawing P/N  | Description    | Specification          | Mat'l Traceability Code Number (MTCN) |
|--------------|----------------|------------------------|---------------------------------------|
| <u>1A,1B</u> | <u>Bellows</u> | <u>SA-240 Type 321</u> | <u>TCH073</u>                         |
| <u>3,4</u>   | <u>Flange</u>  | <u>SA-105</u>          | <u>TCJ972</u>                         |
| <u>5,6</u>   | <u>Ear</u>     | <u>SA-516 Grade 70</u> | <u>TCJ427</u>                         |
| <u>8</u>     | <u>Tie Rod</u> | <u>SA-193 Grade B7</u> | <u>TCJ872</u>                         |
| <u>10</u>    | <u>Nut</u>     | <u>SA-194 Grade 2H</u> | <u>TCJ873</u>                         |

**Verification of design performed in accordance with ND-3649.4(e)(1)**

| CERTIFICATE OF SHOP COMPLIANCE   |                |             |   |
|--|----------------|-------------|---|
| We certify that the statements made in this report are correct and that the fabrication of the described piping subassembly conforms to the rules for construction of the ASME Code, Section III, Division 1.  |                |             |   |
| NPT Certificate of Authorization No.   | <u>N-2778</u>  | Expires     | <u>April 16, 2005</u>   |
| Date   | <u>4/19/04</u> | Name        | <u>Senior Flexonics Pathway</u><br>(NPT Certificate Holder)   |
|  |                | Signed      | <br>(authorized representative)   |
| CERTIFICATE OF SHOP INSPECTION   |                |             |   |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Texas</u> and employed by <u>One Beacon America Insurance Company</u> of <u>Boston, MA</u> have inspected the piping subassembly described in this Data Report on <u>4-19-04</u> and state to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1. |                |             |   |
| By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly described in this Data 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.   |                |             |   |
| Date   | <u>4-19-04</u> | Signed      | <br>(Authorized Nuclear Inspector) |
|  |                | Commissions | <u>TX 1083</u><br>(Nat'l Bd. (incl. endorsements) state or prov. and no.)   |

\*Supplemental information in form of lists, sketches, or drawings may be used provided (1) size 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



# Form NIS-2 Owner's Report for Repairs or Replacements

RType: L1.52

As required by the provisions of the ASME Code Section XI

|                  |              |
|------------------|--------------|
| Job Number       |              |
| P16 - 2063344002 | Sheet 2 of 2 |

**9. Remarks (Applicable Manufacturer's Data Reports to be attached)**  
 Note 1: Support was designed to AISC-1969 and welded to AWS D1.1-86.

The following new materials were used to facilitate the reconfiguration:

Angle Iron - Heat # JE4450, PO # QP051010  
 Pipe Restraint - Heat # AB, PO # QP2306

Hilti Bolts - Part # 45379, PO # QP040687  
 Plate - Heat # A6U2456-04, PO# QP061037

## Certificate of Compliance

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

Type Code Symbol Stamp N/A

Certificate of Authorization Number N/A Expiration Date N/A

Signed Ron Dyer Maintenance Manager Date 5/22/07  
 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 NEW HAMPSHIRE and employed by HEB CT of HARTFORD, CT have inspected the components described in this Owner's Report during the period DEC. 19, 2006 to MAY 24, 2007, 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 loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions NH 734 AIN  
 National Board, State, Province, and Endorsements

Date 5/24/07