



January 21, 2016

L-2016-015  
10 CFR 50.36  
10 CFR 50.55a

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

Re: St. Lucie Unit 2  
Docket No. 50-389  
In-Service Inspection Program  
ISI Fourth Interval - First Period – SL2-22 Refueling Outage  
Owner's Activity Report (OAR-1)

Enclosed is the St. Lucie Unit 2, SL2-22 outage, Owner's Activity Report, Form OAR-1. The OAR-1 report is prepared, certified, and submitted upon completion of each refueling outage. The SL2-22 refueling outage ended on October 26, 2015.

Please contact Ken Frehafer at 772-467-7748 if there are any questions about this submittal.

Sincerely,

A handwritten signature in black ink that reads 'ES KATZMAN'.

Eric S. Katzman  
Licensing Manager  
St. Lucie Plant

ESK/KWF

Attachment

cc: NRC Region II Administrator  
St. Lucie Plant NRC Senior Resident Inspector

A047  
NRR

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number: ISI-PSL-2-2016

Plant: St. Lucie Nuclear Power Plant Unit 2  
6501 South Ocean Drive  
Jensen Beach, Florida 34957

Commercial Service Date: August 8, 1983 Refueling Outage No.: SL2-22

Current Inspection Interval: ISI-Fourth, IWE-Second Current Inspection Period: ISI-First, IWE-Third

Edition and Addenda of Section XI applicable to the inspection plans: ISI - 2007 with Addenda through 2008  
IWE - 2001 Edition with Addenda through 2003

Date and Revision of inspection plans: ISI-September 28, 2015, Revision 1, IWE-July 17, 2015, Revision 2

Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan: Same

Code Cases Used: N-532-5, N-586-1, N-649, N-706-1, N-722-1, N-751 & N-770-1.

CERTIFICATE OF CONFORMANCE

I 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) the repair/replacement activities and evaluations supporting the completion of SL2-22 conform to the requirements of Section XI.

Signed [Signature] R.P.G.L., FUELED MANAGER EUC MANAGER Date 1/14/16  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and employed by the Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

[Signature] Halley Commissions NB 19292 S.N.1 GA903  
Inspector's Signature National Board, State, Province, and Endorsements

Date 1-14-2016

**FORM OAR-1 OWNER'S ACTIVITY REPORT**

**TABLE 1  
ITEMS WITH FLAWS OR REVELANT CONDITIONS THAT REQUIRED EVALUATION FOR  
CONTINUED SERVICE**

PSL 2 – ISI 4<sup>TH</sup> Interval, 1<sup>st</sup> Period Outage 22  
PSL 2 - IWE 2<sup>nd</sup> Interval, 3<sup>rd</sup> Period Outage 22

| Examination Category and Item Number | Item Description | Evaluation Description |
|--------------------------------------|------------------|------------------------|
| None                                 | None             | None                   |

FORM OAR-1 OWNER'S ACTIVITY REPORT

**TABLE 2**  
**ABSTRACT REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE**

PSL 2 – ISI 4<sup>TH</sup> Interval, 1<sup>st</sup> Period Outage 22  
PSL 2 - IWE 2<sup>nd</sup> Interval, 3<sup>rd</sup> Period Outage 22

| Code Class | Item Description | Description of Work  | Date Completed | Repair/Replacement Plan Number |
|------------|------------------|--|----------------|--------------------------------|
| 3          | SB21163          | Replace valve, fasteners, and elbow  | 11/6/2015      | SL2-12017                      |
| 3          | CW-3000-77       | Remove/reinstall support by welding  | 10/28/2015     | SL2-12017                      |
| 3          | CW-9             | Perform weld buildup on internal surface of pipe elbow to restore wall thickness   | 11/9/2015      | SL2-12017                      |
| 3          | CW-9             | Perform weld buildup of pipe elbow to restore wall thickness   | 11/6/2015      | SL2-12017                      |
| 3          | SJ-21-4A         | Tack weld expansion joint cover attachments to expansion joint   | 11/19/2015     | SL2-12017                      |
| 1          | V1200            | Replace relief valve inlet flange bolting  | 1/14/2016      | SL2-13059                      |
| 3          | CW-11            | Perform weld buildup on internal surface of pipe elbow to restore wall thickness in six locations. One repair is through-wall. Remove/reinstall tube steel in support 2998-CW-3000-5 by welding. | 1/14/2016      | SL2-13072                      |
| 3          | V21162           | Replace check valve flange fasteners   | 11/10/2015     | SL2-13076                      |
| 1          | V3527            | Replace check valve by welding   | 1/13/2016      | SL2-14015                      |
| 2          | SE-03-2B         | Perform seal weld on solenoid valve  | 10/28/2015     | SL2-14038                      |
| 3          | DO-10            | Prefabricate FLEX connection assemblies by welding   | 11/20/2015     | SL2-14040                      |
| 3          | DO-10            | Install FLEX assemblies by welding   | 11/19/2015     | SL2-14040                      |
| 1          | RCP 2A2          | Replace RCP rotating assembly, pump cover, and fasteners   | 1/14/2016      | SL2-15001                      |
| 2          | CH-331           | Remove abandoned RCP Seal Injection Charging system components and   | 10/28/2015     | SL2-15001                      |
| 1          | SG 2B            | Install 2B Steam Generator tube plugs  | 11/13/2015     | SL2-15004                      |
| 3          | CW-21            | Replace CW-21 elbow fasteners following pipe inspection  | 10/10/2015     | SL2-15005                      |
| 2          | SI-459           | Replace pipe with new spool pieces by welding  | 9/3/2015       | SL2-15009                      |

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PSL 2 - IWE 2<sup>nd</sup> Interval, 3<sup>rd</sup> Period Outage 22

| Code Class | Item Description | Description of Work   | Date Completed | Repair/Replacement Plan Number |
|------------|------------------|---|----------------|--------------------------------|
| 3          | CW-10            | Replace fasteners and valve by bolted connection                            | 11/10/2015     | SL2-15010                      |
| 3          | CW-10            | Remove/reinstall support by welding   | 1/14/2016      | SL2-15010                      |
| 3          | CW-10            | Prefab replacement spool piece by welding                                   | 11/19/2015     | SL2-15010                      |
| 3          | CW-10            | Replace pipe section by welding and bolted connection.                      | 11/12/2015     | SL2-15010                      |
| 3          | V121067          | Prefabricate V121067 FLEX assembly by welding                               | 1/13/2016      | SL2-15013                      |
| 3          | V121068          | Prefabricate V121068 FLEX assembly by welding                               | 11/19/2015     | SL2-15013                      |
| 3          | C-68             | Install V121067 FLEX connection assembly by welding                         | 11/6/2015      | SL2-15013                      |
| 3          | C-68             | Install V121068 FLEX connection assembly by welding                         | 11/12/2015     | SL2-15013                      |
| 3          | FS-502           | Prefabricate FLEX assembly on replacement spool piece by welding            | 11/20/2015     | SL2-15014                      |
| 3          | FS-502           | Install replacement spool piece that includes new FLEX connection by bolted | 11/12/2015     | SL2-15014                      |
| 2          | V03061           | Prefabricate FLEX connection assembly by welding                            | 11/18/2015     | SL2-15015                      |
| 2          | V03061           | Install FLEX Connection assembly by welding                                 | 11/6/2015      | SL2-15015                      |
| 2          | V03062           | Prefabricate FLEX connection assembly by welding                            | 11/11/2015     | SL2-15015                      |
| 2          | V03062           | Install FLEX Connection assembly by welding.                                | 11/12/2015     | SL2-15015                      |
| 2          | V03063           | Prefabricate FLEX connection assembly by welding                            | 11/18/2015     | SL2-15015                      |
| 2          | V03063           | Install FLEX connection assembly by welding                                 | 11/9/2015      | SL2-15015                      |
| 2          | V03064           | Prefabricate FLEX connection assembly by welding                            | 11/19/2015     | SL2-15015                      |
| 2          | V03064           | Install FLEX connection assembly by welding                                 | 11/6/2015      | SL2-15015                      |

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PSL 2 – ISI 4<sup>TH</sup> Interval, 1<sup>st</sup> Period Outage 22  
PSL 2 - IWE 2<sup>nd</sup> Interval, 3<sup>rd</sup> Period Outage 22

| Code Class | Item Description | Description of Work  | Date Completed | Repair/Replacement Plan Number |
|------------|------------------|--|----------------|--------------------------------|
| 2          | V03061           | Install blind flange by bolted connection                        | 11/12/2015     | SL2-15015                      |
| 2          | V03062           | Install blind flange by bolted connection                        | 11/2/2015      | SL2-15015                      |
| 2          | V03063           | Install blind flange by bolted connection                        | 11/2/2015      | SL2-15015                      |
| 2          | V03064           | Install blind flange by bolted connection                        | 11/12/2015     | SL2-15015                      |
| 1          | Pressurizer      | Replace PZR manway fasteners                                     | 1/14/2016      | SL2-15016                      |
| 2          | V8204            | Rebuild relief valve V8204 and replace fasteners                 | 11/17/2015     | SL2-15018                      |
| 2          | RWT              | Prefab manway assembly   | 11/12/2015     | SL2-15019                      |
| 2          | RWT              | Replace manway assembly which includes FLEX Connection V07496 by | 11/10/2015     | SL2-15019                      |
| 3          | BF-33            | Install FLEX Connection assembly by welding.                     | 11/18/2015     | SL2-15020                      |
| 3          | BF-35            | Install FLEX Connection assembly by welding                      | 11/18/2015     | SL2-15020                      |
| 3          | V09826 / V09827  | Install blind flanges by bolted connection                       | 10/27/2015     | SL2-15020                      |
| 1          | SG 2A            | Install 2A Steam Generator tube plugs                            | 11/17/2015     | SL2-15021                      |
| 3          | SS-21-1A         | SS-21-1A replace flange fasteners                                | 11/9/2015      | SL2-15023                      |
| 3          | SS-21-1A         | Perform weld buildup of flange face                              | 11/5/2015      | SL2-15023                      |
| 2          | 2-212            | Replace Snubber 2-212 per EC 283066                              | 9/24/2015      | SL2-15025                      |
| 2          | 2-217 & 2-218    | Replace Snubbers 2-217 & 2-218 per EC 283066                     | 9/24/2015      | SL2-15026                      |
| 2          | 2-225            | Replace Snubber 2-225 per EC 283066                              | 11/20/2015     | SL2-15027                      |
| 1          | 2-036            | Replace Snubber 2-036 per EC 283066                              | 11/20/2015     | SL2-15028                      |

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PSL 2 - IWE 2<sup>nd</sup> Interval, 3<sup>rd</sup> Period Outage 22

| Code Class | Item Description | Description of Work                                  | Date Completed | Repair/Replacement Plan Number |
|------------|------------------|--|----------------|--------------------------------|
| 2          | 2-110 & 2-111    | Replace Snubbers 2-110 & 2-111 per EC 283066         | 9/24/2015      | SL2-15029                      |
| 1          | 2-113            | Replace Snubber 2-113 per EC 283066                  | 9/24/2015      | SL2-15030                      |
| 2          | 2-119            | Replace Snubber 2-119 per EC 283066                  | 9/24/2015      | SL2-15031                      |
| 2          | 2-112            | Replace Snubber 2-112 per EC 283066                  | 11/20/2015     | SL2-15032                      |
| 1          | V1474            | Replace PORV V1474 inlet flange fasteners            | 1/14/2016      | SL2-15033                      |
| 1          | V1474            | Replace relief valve internals                       | 10/29/2015     | SL2-15033                      |
| 1          | SE-02-4          | Replace solenoid valve SE-02-4                       | 11/5/2015      | SL2-15035                      |
| 2          | MV-08-1B         | Replace seal weld MV-08-1B                           | 11/20/2015     | SL2-15037                      |
| 1          | V1475            | Replace inlet flange fasteners                       | 10/28/2015     | SL2-15038                      |
| 1          | V3525            | Replace valve by welding                             | 1/14/2016      | SL2-15040                      |
| 2          | LPSI PP 2B       | Replace inlet flange fasteners LPSI PP 2B            | 11/17/2015     | SL2-15041                      |
| 1          | RPH-9            | Replace RCP 2B1 spring can support nut               | 1/14/2016      | SL2-15042                      |
| 3          | CW-3000-7010     | Replace support CW-3000-7010 by welding              | 1/13/2016      | SL2-15044                      |
| 3          | HCV-21-7A        | Replaced degraded valve disc                         | 11/9/2015      | SL2-15046                      |
| 3          | V08130           | Replace check valve by welding                       | 11/18/2015     | SL2-15048                      |
| 2          | MNT H AIR AC 2B  | Replace flange fasteners on IA Accumulator flange    | 11/18/2015     | SL2-15049                      |
| 3          | 2-325            | Spherical bearing is worn and in need of replacement | 9/24/2015      | SL2-15050                      |
| 2          | MS-4103A-3091    | Replace parts on pipe restraint                      | 10/28/2015     | SL2-15051                      |

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 PSL 2 - IWE 2<sup>nd</sup> Interval, 3<sup>rd</sup> Period Outage 22

| Code Class | Item Description | Description of Work  | Date Completed | Repair/Replacement Plan Number |
|------------|------------------|--|----------------|--------------------------------|
| 2          | MS-79            | Prep welds on MS-79  | 10/10/2015     | SL2-15052                      |
| 1          | V3527            | Perform VT-1 inspection on removed bolting.                        | 11/10/2015     | SL2-15054                      |
| 1          | V3527            | Replace check valve V3527 by welding                               | 10/29/2015     | SL2-15054                      |
| 1          | V1200            | Replace code safety relief valve inlet flange fasteners            | 10/28/2015     | SL2-15057                      |
| 1          | V1201            | Replace code safety relief valve inlet flange nuts                 | 10/27/2015     | SL2-15058                      |
| 1          | V1202            | Replace code safety relief valve inlet flange nuts                 | 10/27/2015     | SL2-15059                      |
| 3          | SH212042         | Replace valve and adjacent pipe by threaded connection and welding | 10/29/2015     | SL2-15061                      |
| 3          | V2344            | Install seal weld for V2344  | 11/18/2015     | SL2-15062                      |
| 2          | CC-2080-20       | Replace load pin on support CC-2080-20                             | 1/13/2016      | SL2-15063                      |