



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

August 26, 2014
NOC-AE-14003170
10 CFR 50.55(a)

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

South Texas Project
Unit 1
Docket No. STN 50-498
Inservice Inspection Summary Report – 1RE18

Attached are four copies of the South Texas Project Unit 1 summary report for inservice inspections performed prior to and during scheduled refueling outage 1RE18 completed in June 2014. This summary report satisfies the reporting requirements of ASME Code Section XI, Article IWA-6230.

There are no commitments in this letter.

If there are any questions regarding this report, please contact Wendy Brost at (361) 972-8516 or me at (361) 972-7030.

Michael Berg
Manager,
Design Engineering
Testing & Programs Engineering

web

A047
NRK

Attachment: Summary Report for 1RE18 Inservice Inspection of Unit 1 South Texas Project Electric Generating Station (4 copies)

STI: 33919976

cc:
(paper copy)

Regional Administrator, Region IV
U. S. Nuclear Regulatory Commission
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U. S. Nuclear Regulatory Commission
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NRG South Texas LP

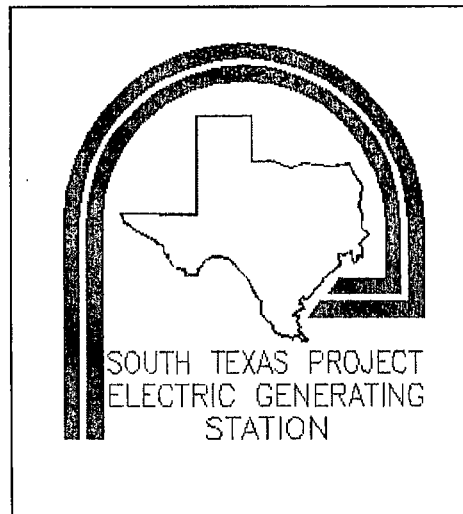
Kevin Pollo
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Crain Caton & James, P.C.

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John Wester
City of Austin

Richard A. Ratliff
Robert Free
Texas Department of State Health Services

SUMMARY REPORT
For
1RE18
INSERVICE INSPECTION
Of
UNIT 1
SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION



STP NUCLEAR OPERATING COMPANY
March 2014

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COVER SHEET

1RE18 INSERVICE INSPECTION SUMMARY REPORT

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

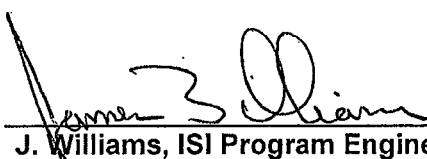
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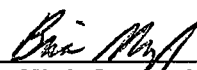
WADSWORTH, TEXAS 77483

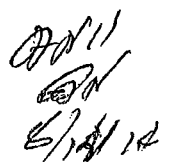
USNRC DOCKET NO: 50-498

OPERATING LICENSE NO: NPF-78

COMMERCIAL OPERATION DATE: AUGUST 25, 1988

Prepared by:  Date 8/09/2014
J. Williams, ISI Program Engineer

Reviewed by:  Date 8/18/2014
B. Migl, Supervisor, /Testing Programs


8/18/14

SCOPE

COMPONENT SUPPORTS, CONTAINMENT METAL LINER, REPAIR/REPLACEMENT ACTIVITIES, SYSTEM PRESSURE TESTS AND WELD INSPECTION PROGRAMS (IWB, IWC, IWE, IWF)

The examinations summarized in this report were performed in accordance with the 2004 Edition with no Addenda of the ASME Code, Section XI that is applicable to the South Texas Project, Unit 1, third ten-year interval (09/25/2010-09/24/2020), second period (09/25/2013-09/24/2017). This report covers selected ASME Code Class 1, 2, and 3 Systems/Components. This report is documented in accordance with the requirements of ASME Section XI Code Case N-532-4.

Examinations and tests required by the Code are scheduled in accordance with "Inspection Program B" as defined in IWB-2412 for ASME Code Class 1 Systems/Components, IWC-2412 for ASME Code Class 2 Systems/Components, IWD-2412 for ASME Code Class 3 Systems/Components, and IWF-2410 component supports.

ASME Code Class 1 components were examined as prescribed by Table IWB-2500-1 and the applicable Examination Categories, which established the examination frequency at each refueling outage. The ASME Code Class 2 Systems/Components were examined in accordance with Table IWC-2500-1, Examination Categories. The ASME Code Class 3 Systems/Components were examined in accordance with Table IWD-2500-1, Examination Categories. Component Supports were examined in accordance with IWF- Table 2500-1, Examination Categories.

CONTAINMENT METAL LINER (IWE)

The Containment Metal Liner examinations summarized in this report were performed in accordance with the 2004 Edition No Addenda of the ASME Code, Section XI, which is applicable to the South Texas Project, Unit 1, second ten-year interval (09/09/2009-09/08/2019), second period (09/09/2013 - 09/08/2016). This report covers selected ASME Code Class CC liner & MC Components. This report is documented in accordance with the requirements of ASME Section XI Code Case N-532-4.

Examinations and tests required by the Code are scheduled in accordance with "Inspection Program B" as defined in IWE-2412 for ASME Code Class CC liner & MC Components. The Containment Metal Liner Components were examined in accordance with Table IWE-2500-1, Examination Categories.

Q271
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6/15/12

FORM OAR-1 OWNER'S ACTIVITY REPORT (Code Case N-532-4)

Report Number OAR-IRE18

Plant South Texas Project Electric Generating Station

Unit No. 1 Commercial service date August 25, 1988 Refueling outage no. IRE18
(If applicable)

Current inspection interval IWB, IWC, IWD, IWF - 3rd; IWE - 2nd
(1st, 2nd, 3rd, 4th, other)

Current inspection period IWB, IWC, IWD, IWF - 2nd; IWE - 2nd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plan 2004 No Addenda

Date and revision of inspection plan Revision 7 Effective date: 10/8/2012, Supplement 1 Effective date: 7/18/2013 Supplement 2 Effective date: 4/2/2014

Edition and Addenda of Section XI applicable to repairs/replacement activities, if different than the inspection plan N/A

Code Cases used: N-460, N-532-4, N578-1, N-706-1, N-729-1, N-770-1, N-722-1

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 IRE18 conform to the requirements of Section XI.
(Refueling outage number)

Signed [Signature] ISI Program Engineer Date: August 9, 2014
(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 Texas and employed by ABS Boiler & Marine Insurance Co. of Houston, Texas 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 repairs/ replacements activities and evaluation described this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from the connected with this inspection.

[Signature] Commissions TX-756
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 18, 2014

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OAR 11
20
4/18/14

TABLE 1

ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT
REQUIRE EVALUATION FOR CONTINUED SERVICE

1RE18
March 2014

Examination Category	Item Number	Item Description	Evaluation Description
		See Note #1	

NOTES:

1. No items found with flaws or relevant conditions that required evaluation for continued service.
2. Surveillance procedure 0PSP11-RC-0015 Revision 17, ASME Section XI Inservice Inspection, documents Inservice Inspection activities during 1RE18.

AW
AW
6/18/14

TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

1RE18

March 2014

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
3	Pipe Support	Replaced EW U-Strap Pipe Support EW-1288-HL5007	8/29/13	01-12-52
3	Piping	Replaced EW 2" dia. Piping Spool EW-1214-01-A	1/17/13	01-12-54
3	Pipe Support	Replaced EW Pipe Support 1C ECW pump Seismic Support	1/25/13	01-12-55
3	Pump	Replaced ECW Pump 1C TNPS 3R281NPA101C	1/25/13	01-12-56
3	Valve	Replaced EW 2" Ball Valve TPNS3R281TEW0068	1/17/13	01-12-58
3	Piping Plug	Replaced EW Piping Plug at 30" x 1-1/2" Sockolet Line#30"EW1302 WT3	1/24/13	01-12-59
3	Valve	Replaced 8" Chiller 12B ECW Return Valve 3R281TEW1004	1/16/13	01-12-60
3	Valve	Replaced 30" ECW Train 1C Discharge Check Valve 3R281TEW0079	1/22/13	01-12-61
3	Valve	Replaced EW Valve & Bolting	1/23/13	01-12-62
3	Valve	Replaced EW Valve & Bolting	1/23/13	01-12-63
2	Pipe Support	Replaced broken Support Load Pin on component support SI-1105-RR0036	11/26/12	01-12-64
3	Pump	Replaced all bolting hardware on Air Cooler on adapter plate	4/17/14	01-12-65
3	Bolting	Replaced Adapter plate 1/2"-13 x-1 1/4" bolting and washers on 1D RCP Motor Air Cooler TPNS 2R131NPP103D	4/13/14	01-12-66
3	Bolting / Plug	Replaced 3/4" flange stud bolts and nuts and plugged one evaporator tube of 3V111VCH006 (ESSENTIAL CHILLED WATER CHILLER 12C)	1/26/13	01-12-67
3	Strainer	Replacement of ECW Strainer 1B bolting	1/17/13	01-13-02
3	Pipe	Replaced 6" pipe section on line 2" EW-1214-B-A04	1/17/13	01-13-03
3	Valve	Replaced hinge pins on 30" check valve internals	2/4/13	01-13-04
3	Pump Flange	Replaced Flange Fastener Studs and Nuts on 11B ECW pump suction flange, Line Number 8"CH1214WA3	6/4/13	01-13-06
2	Valve	Replaced 2" 1500# globe Valve MS-0545 and associated piping	3/26/14	01-13-07
3	Pipe Flange	Replaced Flange on line number 8"-EW-1185-A	2/05/14	01-13-09
3	Pipe Flange	Replaced Flange on line number 4"-EW-1130-F	2/05/14	01-13-10

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TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

1RE18

March 2014

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
3	Fastener	Replaced flange fastener cap screws downstream of valve 3R201TCC0358	3/24/14	01-13-15
3	Valve	Replaced Valve Disc on MOV 2N121TS10011B	4/04/14	01-13-17
1	Seal	Replaced Seal Package on 1C RCP TPNS1R131NPP101C	4/06/14	01-13-22
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3450	4/06/14	01-13-24
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3452	4/06/14	01-13-25
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3451	4/06/14	01-13-26
1	Valve	Replaced 1" PRZ Spray Line Second Vent Isolation Valve TPNS 1R141TRC0163	3/26/14	01-13-31
1	Valve	Replaced 1" PRZ Spray Line First Vent Isolation Valve TPNS 1R141TRC0103	3/26/14	01-13-32
1	Hanger	Replaced 1/4" x 1" U Strap Hanger, Pipe Support RC1003 HS5064	3/26/14	01-13-33
3	Valve	Replaced 8" ECW Essential Chiller 12A Return Valve TPNS 3R281TEW1002	1/07/14	01-13-34
3	Flange/Bolting	Replaced Blind Flange and 3/4" Fasteners on line 6" EW1416	2/04/14	01-13-35
2	Valve	Replaced Valve Plug TPNS C1CVHCV0218 CVCS Seal Water Injection Flow Control Valve	4/06/14	01-13-42
2	Pipe	Replaced 18" 90° Elbow of Pipe spool on 18" FW-1029-AA2	4/14/2014	01-13-48
3	Valve	Replaced 8" Essential Chiller 12C ECW Return Valve TPNS 3R281TEW1006	1/11/2014	01-14-03
2	Valve	Replaced new valve disc on Terry Turbine Main Steam Supply ORC Isolation MOV TPNS 2S141TMS0143	5/06/2014	01-14-04
1	Bolting	Replaced RCP 1C Seal Housing bolting with 7/8" Inconel Studs and Nuts	4/04/2014	01-14-05
3	Valve	Replaced Ball & Seat Assy. 3R171TCV0121A	3/20/2014	01-14-06

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ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

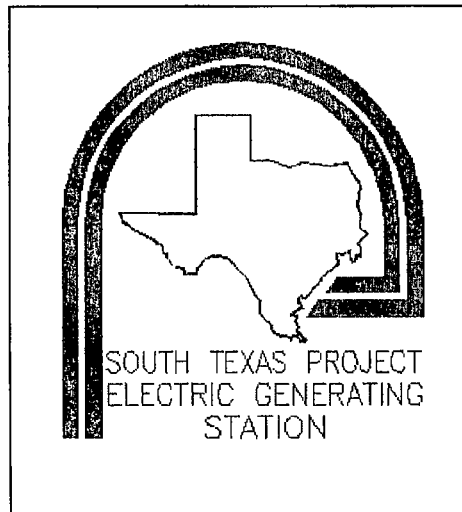
1RE18

March 2014

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
1	Manway	Replaced welded diaphragm, install new studs, nuts and washers on pressurizer manway Pressurizer 1A TPNS 1R11NPZ101A	3/31/2014	01-14-07
1	Snubber	Replace mechanical Snubber RC 1000-SS-0001, Model AD 151 S/N 458	3/31/2014	01-14-08
1	Plug	Replaced seal plug on #81 IDD top reactor head penetration	5/24/2014	01-14-09
2	Valve	Replaced 3" Valve internal components on CVCS Charging Discharge Header Flow Control Valve A1CVFCV0205	4/15/2014	01-14-10

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SUMMARY REPORT
For
1RE18
INSERVICE INSPECTION
Of
UNIT 1
SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION



STP NUCLEAR OPERATING COMPANY

March 2014

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1RE18
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COVER SHEET

1RE18 INSERVICE INSPECTION SUMMARY REPORT

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

P.O. BOX 289

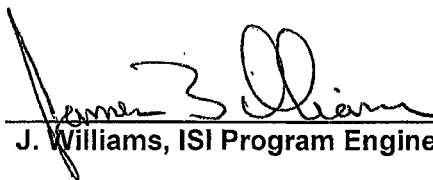
WADSWORTH, TEXAS 77483

USNRC DOCKET NO: 50-498

OPERATING LICENSE NO: NPF-78

COMMERCIAL OPERATION DATE: AUGUST 25, 1988

Prepared by:

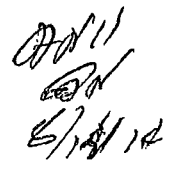

J. Williams, ISI Program Engineer

Date 8/09/2014

Reviewed by:


B. Migl, Supervisor, /Testing Programs

Date 8/18/2014


8/18/14

SCOPE

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(Refueling outage number)

Signed [Signature] ISI Program Engineer Date: August 9, 2014
(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 Texas and employed by ABS Boiler & Marine Insurance Co. of Houston, Texas 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 repairs/replacements activities and evaluation described this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from the connected with this inspection.

[Signature] Commissions TX-756
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 18, 2014

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TABLE 1

ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT
REQUIRE EVALUATION FOR CONTINUED SERVICE

1RE18
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March 2014

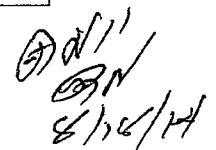
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3	Piping	Replaced EW 2" dia. Piping Spool EW-1214-01-A	1/17/13	01-12-54
3	Pipe Support	Replaced EW Pipe Support 1C ECW pump Seismic Support	1/25/13	01-12-55
3	Pump	Replaced ECW Pump 1C TNPS 3R281NPA101C	1/25/13	01-12-56
3	Valve	Replaced EW 2" Ball Valve TPNS3R281TEW0068	1/17/13	01-12-58
3	Piping Plug	Replaced EW Piping Plug at 30" x 1-1/2" Sockolet Line#30"EW1302 WT3	1/24/13	01-12-59
3	Valve	Replaced 8" Chiller 12B ECW Return Valve 3R281TEW1004	1/16/13	01-12-60
3	Valve	Replaced 30" ECW Train 1C Discharge Check Valve 3R281TEW0079	1/22/13	01-12-61
3	Valve	Replaced EW Valve & Bolting	1/23/13	01-12-62
3	Valve	Replaced EW Valve & Bolting	1/23/13	01-12-63
2	Pipe Support	Replaced broken Support Load Pin on component support SI-1105-RR0036	11/26/12	01-12-64
3	Pump	Replaced all bolting hardware on Air Cooler on adapter plate	4/17/14	01-12-65
3	Bolting	Replaced Adapter plate 1/2"-13 x-1 1/4" bolting and washers on 1D RCP Motor Air Cooler TPNS 2R131NPP103D	4/13/14	01-12-66
3	Bolting / Plug	Replaced 3/4" flange stud bolts and nuts and plugged one evaporator tube of 3V111VCH006 (ESSENTIAL CHILLED WATER CHILLER 12C)	1/26/13	01-12-67
3	Strainer	Replacement of ECW Strainer 1B bolting	1/17/13	01-13-02
3	Pipe	Replaced 6" pipe section on line 2" EW-1214-B-A04	1/17/13	01-13-03
3	Valve	Replaced hinge pins on 30" check valve internals	2/4/13	01-13-04
3	Pump Flange	Replaced Flange Fastener Studs and Nuts on 11B ECW pump suction flange, Line Number 8"CH1214WA3	6/4/13	01-13-06
2	Valve	Replaced 2" 1500# globe Valve MS-0545 and associated piping	3/26/14	01-13-07
3	Pipe Flange	Replaced Flange on line number 8"-EW-1185-A	2/05/14	01-13-09
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Handwritten signature and date:
2/15/14

TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
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1RE18
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Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
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3	Valve	Replaced Valve Disc on MOV 2N121TS10011B	4/04/14	01-13-17
1	Seal	Replaced Seal Package on 1C RCP TPNS1R131NPP101C	4/06/14	01-13-22
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3450	4/06/14	01-13-24
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3452	4/06/14	01-13-25
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3451	4/06/14	01-13-26
1	Valve	Replaced 1" PRZ Spray Line Second Vent Isolation Valve TPNS 1R141TRC0163	3/26/14	01-13-31
1	Valve	Replaced 1" PRZ Spray Line First Vent Isolation Valve TPNS 1R141TRC0103	3/26/14	01-13-32
1	Hanger	Replaced 1/2" x 1" U Strap Hanger, Pipe Support RC1003 HS5064	3/26/14	01-13-33
3	Valve	Replaced 8" ECW Essential Chiller 12A Return Valve TPNS 3R281TEW1002	1/07/14	01-13-34
3	Flange/Bolting	Replaced Blind Flange and 3/4" Fasteners on line 6"EW1416	2/04/14	01-13-35
2	Valve	Replaced Valve Plug TPNS C1CVHCV0218 CVCS Seal Water Injection Flow Control Valve	4/06/14	01-13-42
2	Pipe	Replaced 18" 90° Elbow of Pipe spool on 18" FW-1029-AA2	4/14/2014	01-13-48
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2	Valve	Replaced new valve disc on Terry Turbine Main Steam Supply ORC Isolation MOV TPNS 2S141TMS0143	5/06/2014	01-14-04
1	Bolting	Replaced RCP 1C Seal Housing bolting with 7/8" Inconel Studs and Nuts	4/04/2014	01-14-05
3	Valve	Replaced Ball & Seat Assy. 3R171TCV0121A	3/20/2014	01-14-06



 5/16/14

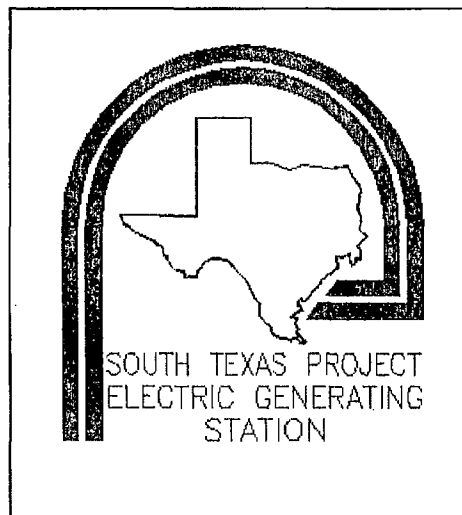
TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE1RE18
March 2014

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
1	Manway	Replaced welded diaphragm, install new studs, nuts and washers on pressurizer manway Pressurizer 1A TPNS 1R11NPZ101A	3/31/2014	01-14-07
1	Snubber	Replace mechanical Snubber RC 1000-SS-0001, Model AD 151 S/N 458	3/31/2014	01-14-08
1	Plug	Replaced seal plug on #81 IDD top reactor head penetration	5/24/2014	01-14-09
2	Valve	Replaced 3" Valve internal components on CVCS Charging Discharge Header Flow Control Valve A1CVFCV0205	4/15/2014	01-14-10

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SUMMARY REPORT
For
1RE18
INSERVICE INSPECTION
Of
UNIT 1
SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION



STP NUCLEAR OPERATING COMPANY
March 2014

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COVER SHEET

1RE18 INSERVICE INSPECTION SUMMARY REPORT

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

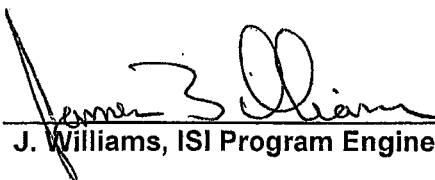
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WADSWORTH, TEXAS 77483

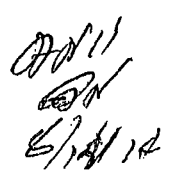
USNRC DOCKET NO: 50-498

OPERATING LICENSE NO: NPF-78

COMMERCIAL OPERATION DATE: AUGUST 25, 1988

Prepared by:  Date 8/09/2014
J. Williams, ISI Program Engineer

Reviewed by:  Date 8/18/2014
B. Migl, Supervisor, /Testing Programs


6/24/12

SCOPE

COMPONENT SUPPORTS, CONTAINMENT METAL LINER, REPAIR/REPLACEMENT ACTIVITIES, SYSTEM PRESSURE TESTS AND WELD INSPECTION PROGRAMS (IWB, IWC, IWE, IWF)

The examinations summarized in this report were performed in accordance with the 2004 Edition with no Addenda of the ASME Code, Section XI that is applicable to the South Texas Project, Unit 1, third ten-year interval (09/25/2010-09/24/2020), second period (09/25/2013-09/24/2017). This report covers selected ASME Code Class 1, 2, and 3 Systems/Components. This report is documented in accordance with the requirements of ASME Section XI Code Case N-532-4.

Examinations and tests required by the Code are scheduled in accordance with "Inspection Program B" as defined in IWB-2412 for ASME Code Class 1 Systems/Components, IWC-2412 for ASME Code Class 2 Systems/Components, IWD-2412 for ASME Code Class 3 Systems/Components, and IWF-2410 component supports.

ASME Code Class 1 components were examined as prescribed by Table IWB-2500-1 and the applicable Examination Categories, which established the examination frequency at each refueling outage. The ASME Code Class 2 Systems/Components were examined in accordance with Table IWC-2500-1, Examination Categories. The ASME Code Class 3 Systems/Components were examined in accordance with Table IWD-2500-1, Examination Categories. Component Supports were examined in accordance with IWF- Table 2500-1, Examination Categories.

CONTAINMENT METAL LINER (IWE)

The Containment Metal Liner examinations summarized in this report were performed in accordance with the 2004 Edition No Addenda of the ASME Code, Section XI, which is applicable to the South Texas Project, Unit 1, second ten-year interval (09/09/2009-09/08/2019), second period (09/09/2013 - 09/08/2016). This report covers selected ASME Code Class CC liner & MC Components. This report is documented in accordance with the requirements of ASME Section XI Code Case N-532-4.

Examinations and tests required by the Code are scheduled in accordance with "Inspection Program B" as defined in IWE-2412 for ASME Code Class CC liner & MC Components. The Containment Metal Liner Components were examined in accordance with Table IWE-2500-1, Examination Categories.

02/11
02/11
6/15/14

FORM OAR-1 OWNER'S ACTIVITY REPORT (Code Case N-532-4)

Report Number OAR-1RE18

Plant South Texas Project Electric Generating Station

Unit No. 1 Commercial service date August 25, 1988 Refueling outage no. 1RE18
(If applicable)

Current inspection interval IWB, IWC, IWD, IWF - 3rd; IWE - 2nd
(1st, 2nd, 3rd, 4th, other)

Current inspection period IWB, IWC, IWD, IWF - 2nd; IWE - 2nd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plan 2004 No Addenda

Date and revision of inspection plan Revision 7 Effective date: 10/8/2012, Supplement 1 Effective date: 7/18/2013 Supplement 2 Effective date: 4/2/2014

Edition and Addenda of Section XI applicable to repairs/replacement activities, if different than the inspection plan N/A

Code Cases used: N-460, N-532-4, N578-1, N-706-1, N-729-1, N-770-1, N-722-1

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 1RE18 conform to the requirements of Section XI.
(Refueling outage number)

Signed [Signature] ISI Program Engineer Date: August 9, 2014
(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 Texas and employed by ABS Boiler & Marine Insurance Co. of Houston, Texas 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 repairs/replacements activities and evaluation described this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from the connected with this inspection.

[Signature] Commissions TX-756
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 18, 2014

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2011
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TABLE 1

ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT
REQUIRE EVALUATION FOR CONTINUED SERVICE

1RE18
March 2014

Examination Category	Item Number	Item Description	Evaluation Description
		See Note #1	

NOTES:

1. No items found with flaws or relevant conditions that required evaluation for continued service.
2. Surveillance procedure 0PSP11-RC-0015 Revision 17, ASME Section XI Inservice Inspection, documents Inservice Inspection activities during 1RE18.

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TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

1RE18
March 2014

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
3	Pipe Support	Replaced EW U-Strap Pipe Support EW-1288-HL5007	8/29/13	01-12-52
3	Piping	Replaced EW 2" dia. Piping Spool EW-1214-01-A	1/17/13	01-12-54
3	Pipe Support	Replaced EW Pipe Support 1C ECW pump Seismic Support	1/25/13	01-12-55
3	Pump	Replaced ECW Pump 1C TNPS 3R281NPA101C	1/25/13	01-12-56
3	Valve	Replaced EW 2" Ball Valve TPNS3R281TEW0068	1/17/13	01-12-58
3	Piping Plug	Replaced EW Piping Plug at 30" x 1-1/2" Sockolet Line#30"EW1302 WT3	1/24/13	01-12-59
3	Valve	Replaced 8" Chiller 12B ECW Return Valve 3R281TEW1004	1/16/13	01-12-60
3	Valve	Replaced 30" ECW Train 1C Discharge Check Valve 3R281TEW0079	1/22/13	01-12-61
3	Valve	Replaced EW Valve & Bolting	1/23/13	01-12-62
3	Valve	Replaced EW Valve & Bolting	1/23/13	01-12-63
2	Pipe Support	Replaced broken Support Load Pin on component support SI-1105-RR0036	11/26/12	01-12-64
3	Pump	Replaced all bolting hardware on Air Cooler on adapter plate	4/17/14	01-12-65
3	Bolting	Replaced Adapter plate 1/2"-13 x-1 1/4" bolting and washers on 1D RCP Motor Air Cooler TPNS 2R131NPP103D	4/13/14	01-12-66
3	Bolting / Plug	Replaced 3/4" flange stud bolts and nuts and plugged one evaporator tube of 3V111VCH006 (ESSENTIAL CHILLED WATER CHILLER 12C)	1/26/13	01-12-67
3	Strainer	Replacement of ECW Strainer 1B bolting	1/17/13	01-13-02
3	Pipe	Replaced 6" pipe section on line 2" EW-1214-B-A04	1/17/13	01-13-03
3	Valve	Replaced hinge pins on 30" check valve internals	2/4/13	01-13-04
3	Pump Flange	Replaced Flange Fastener Studs and Nuts on 11B ECW pump suction flange, Line Number 8"CH1214WA3	6/4/13	01-13-06
2	Valve	Replaced 2" 1500# globe Valve MS-0545 and associated piping	3/26/14	01-13-07
3	Pipe Flange	Replaced Flange on line number 8"-EW-1185-A	2/05/14	01-13-09
3	Pipe Flange	Replaced Flange on line number 4"-EW-1130-F	2/05/14	01-13-10

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TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

1RE18

March 2014

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
3	Fastener	Replaced flange fastener cap screws downstream of valve 3R201TCC0358	3/24/14	01-13-15
3	Valve	Replaced Valve Disc on MOV 2N121TS10011B	4/04/14	01-13-17
1	Seal	Replaced Seal Package on 1C RCP TPNS1R131NPP101C	4/06/14	01-13-22
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3450	4/06/14	01-13-24
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3452	4/06/14	01-13-25
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3451	4/06/14	01-13-26
1	Valve	Replaced 1" PRZ Spray Line Second Vent Isolation Valve TPNS 1R141TRC0163	3/26/14	01-13-31
1	Valve	Replaced 1" PRZ Spray Line First Vent Isolation Valve TPNS 1R141TRC0103	3/26/14	01-13-32
1	Hanger	Replaced 1/2" x 1" U Strap Hanger, Pipe Support RC1003 HS5064	3/26/14	01-13-33
3	Valve	Replaced 8" ECW Essential Chiller 12A Return Valve TPNS 3R281TEW1002	1/07/14	01-13-34
3	Flange/Bolting	Replaced Blind Flange and 3/4" Fasteners on line 6"EW1416	2/04/14	01-13-35
2	Valve	Replaced Valve Plug TPNS C1CVHCV0218 CVCS Seal Water Injection Flow Control Valve	4/06/14	01-13-42
2	Pipe	Replaced 18" 90° Elbow of Pipe spool on 18" FW-1029-AA2	4/14/2014	01-13-48
3	Valve	Replaced 8" Essential Chiller 12C ECW Return Valve TPNS 3R281TEW1006	1/11/2014	01-14-03
2	Valve	Replaced new valve disc on Terry Turbine Main Steam Supply ORC Isolation MOV TPNS 2S141TMS0143	5/06/2014	01-14-04
1	Bolting	Replaced RCP 1C Seal Housing bolting with 7/8" Inconel Studs and Nuts	4/04/2014	01-14-05
3	Valve	Replaced Ball & Seat Assy. 3R171TCV0121A	3/20/2014	01-14-06

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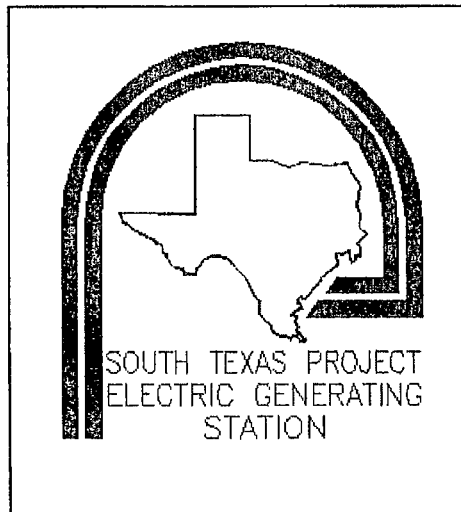
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ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE
1RE18
March 2014

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
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1	Plug	Replaced seal plug on #81 IDD top reactor head penetration	5/24/2014	01-14-09
2	Valve	Replaced 3" Valve internal components on CVCS Charging Discharge Header Flow Control Valve A1CVFCV0205	4/15/2014	01-14-10

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SUMMARY REPORT
For
1RE18
INSERVICE INSPECTION
Of
UNIT 1
SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION



STP NUCLEAR OPERATING COMPANY
March 2014

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COVER SHEET

1RE18 INSERVICE INSPECTION SUMMARY REPORT

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

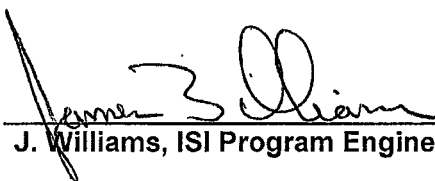
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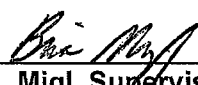
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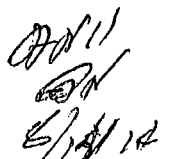
USNRC DOCKET NO: 50-498

OPERATING LICENSE NO: NPF-78

COMMERCIAL OPERATION DATE: AUGUST 25, 1988

Prepared by:  Date 8/09/2014
J. Williams, ISI Program Engineer

Reviewed by:  Date 8/18/2014
B. Migl, Supervisor, /Testing Programs



SCOPE

COMPONENT SUPPORTS, CONTAINMENT METAL LINER, REPAIR/REPLACEMENT ACTIVITIES, SYSTEM PRESSURE TESTS AND WELD INSPECTION PROGRAMS (IWB, IWC, IWE, IWF)

The examinations summarized in this report were performed in accordance with the 2004 Edition with no Addenda of the ASME Code, Section XI that is applicable to the South Texas Project, Unit 1, third ten-year interval (09/25/2010-09/24/2020), second period (09/25/2013-09/24/2017). This report covers selected ASME Code Class 1, 2, and 3 Systems/Components. This report is documented in accordance with the requirements of ASME Section XI Code Case N-532-4.

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CONTAINMENT METAL LINER (IWE)

The Containment Metal Liner examinations summarized in this report were performed in accordance with the 2004 Edition No Addenda of the ASME Code, Section XI, which is applicable to the South Texas Project, Unit 1, second ten-year interval (09/09/2009-09/08/2019), second period (09/09/2013 - 09/08/2016). This report covers selected ASME Code Class CC liner & MC Components. This report is documented in accordance with the requirements of ASME Section XI Code Case N-532-4.

Examinations and tests required by the Code are scheduled in accordance with "Inspection Program B" as defined in IWE-2412 for ASME Code Class CC liner & MC Components. The Containment Metal Liner Components were examined in accordance with Table IWE-2500-1, Examination Categories.

02/11
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4/15/12

FORM OAR-1 OWNER'S ACTIVITY REPORT (Code Case N-532-4)

Report Number OAR-1RE18

Plant South Texas Project Electric Generating Station

Unit No. 1 Commercial service date August 25, 1988 Refueling outage no. 1RE18
(If applicable)

Current inspection interval IWB, IWC, IWD, IWF - 3rd; IWE - 2nd
(1st, 2nd, 3rd, 4th, other)

Current inspection period IWB, IWC, IWD, IWF - 2nd; IWE - 2nd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plan 2004 No Addenda

Date and revision of inspection plan Revision 7 Effective date: 10/8/2012, Supplement 1 Effective date: 7/18/2013 Supplement 2 Effective date: 4/2/2014

Edition and Addenda of Section XI applicable to repairs/replacement activities, if different than the inspection plan N/A

Code Cases used: N-460, N-532-4, N578-1, N-706-1, N-729-1, N-770-1, N-722-1

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 1RE18 conform to the requirements of Section XI.
(Refueling outage number)

Signed [Signature] ISI Program Engineer Date: August 9, 2014
(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 Texas and employed by ABS Boiler & Marine Insurance Co. of Houston, Texas 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 repairs/replacements activities and evaluation described this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from the connected with this inspection.

[Signature] Commissions TX-756
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 18, 2014

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2014
4/18/14

TABLE 1

ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT
REQUIRE EVALUATION FOR CONTINUED SERVICE

1RE18
March 2014

Examination Category	Item Number	Item Description	Evaluation Description
		See Note #1	

NOTES:

1. No items found with flaws or relevant conditions that required evaluation for continued service.
2. Surveillance procedure 0PSP11-RC-0015 Revision 17, ASME Section XI Inservice Inspection, documents Inservice Inspection activities during 1RE18.

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TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

1RE18
March 2014

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
3	Pipe Support	Replaced EW U-Strap Pipe Support EW-1288-HL5007	8/29/13	01-12-52
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3	Pipe Support	Replaced EW Pipe Support 1C ECW pump Seismic Support	1/25/13	01-12-55
3	Pump	Replaced ECW Pump 1C TNPS 3R281NPA101C	1/25/13	01-12-56
3	Valve	Replaced EW 2" Ball Valve TPNS3R281TEW0068	1/17/13	01-12-58
3	Piping Plug	Replaced EW Piping Plug at 30" x 1-1/2" Sockolet Line#30"EW1302 WT3	1/24/13	01-12-59
3	Valve	Replaced 8" Chiller 12B ECW Return Valve 3R281TEW1004	1/16/13	01-12-60
3	Valve	Replaced 30" ECW Train 1C Discharge Check Valve 3R281TEW0079	1/22/13	01-12-61
3	Valve	Replaced EW Valve & Bolting	1/23/13	01-12-62
3	Valve	Replaced EW Valve & Bolting	1/23/13	01-12-63
2	Pipe Support	Replaced broken Support Load Pin on component support SI-1105-RR0036	11/26/12	01-12-64
3	Pump	Replaced all bolting hardware on Air Cooler on adapter plate	4/17/14	01-12-65
3	Bolting	Replaced Adapter plate 1/2"-13 x-1 1/4" bolting and washers on 1D RCP Motor Air Cooler TPNS 2R131NPP103D	4/13/14	01-12-66
3	Bolting / Plug	Replaced 3/4" flange stud bolts and nuts and plugged one evaporator tube of 3V111VCH006 (ESSENTIAL CHILLED WATER CHILLER 12C)	1/26/13	01-12-67
3	Strainer	Replacement of ECW Strainer 1B bolting	1/17/13	01-13-02
3	Pipe	Replaced 6" pipe section on line 2" EW-1214-B-A04	1/17/13	01-13-03
3	Valve	Replaced hinge pins on 30" check valve internals	2/4/13	01-13-04
3	Pump Flange	Replaced Flange Fastener Studs and Nuts on 11B ECW pump suction flange, Line Number 8"CH1214WA3	6/4/13	01-13-06
2	Valve	Replaced 2" 1500# globe Valve MS-0545 and associated piping	3/26/14	01-13-07
3	Pipe Flange	Replaced Flange on line number 8"-EW-1185-A	2/05/14	01-13-09
3	Pipe Flange	Replaced Flange on line number 4"-EW-1130-F	2/05/14	01-13-10

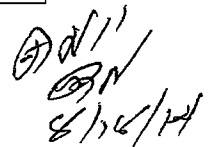
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TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

1RE18
March 2014

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
3	Fastener	Replaced flange fastener cap screws downstream of valve 3R201TCC0358	3/24/14	01-13-15
3	Valve	Replaced Valve Disc on MOV 2N121TS10011B	4/04/14	01-13-17
1	Seal	Replaced Seal Package on 1C RCP TPNS1R131NPP101C	4/06/14	01-13-22
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3450	4/06/14	01-13-24
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3452	4/06/14	01-13-25
1	Valve	Replaced with refurbished spare, 6" Pressureizer Safety Valve TPNS N1RCPSV3451	4/06/14	01-13-26
1	Valve	Replaced 1" PRZ Spray Line Second Vent Isolation Valve TPNS 1R141TRC0163	3/26/14	01-13-31
1	Valve	Replaced 1" PRZ Spray Line First Vent Isolation Valve TPNS 1R141TRC0103	3/26/14	01-13-32
1	Hanger	Replaced 1/4" x 1" U Strap Hanger, Pipe Support RC1003 HS5064	3/26/14	01-13-33
3	Valve	Replaced 8" ECW Essential Chiller 12A Return Valve TPNS 3R281TEW1002	1/07/14	01-13-34
3	Flange/Bolting	Replaced Blind Flange and 3/4" Fasteners on line 6" EW1416	2/04/14	01-13-35
2	Valve	Replaced Valve Plug TPNS C1CVHCV0218 CVCS Seal Water Injection Flow Control Valve	4/06/14	01-13-42
2	Pipe	Replaced 18" 90° Elbow of Pipe spool on 18" FW-1029-AA2	4/14/2014	01-13-48
3	Valve	Replaced 8" Essential Chiller 12C ECW Return Valve TPNS 3R281TEW1006	1/11/2014	01-14-03
2	Valve	Replaced new valve disc on Terry Turbine Main Steam Supply ORC Isolation MOV TPNS 2S141TMS0143	5/06/2014	01-14-04
1	Bolting	Replaced RCP 1C Seal Housing bolting with 7/8" Inconel Studs and Nuts	4/04/2014	01-14-05
3	Valve	Replaced Ball & Seat Assy. 3R171TCV0121A	3/20/2014	01-14-06



 8/12/14

TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE
1RE18
March 2014

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
1	Manway	Replaced welded diaphragm, install new studs, nuts and washers on pressurizer manway Pressurizer 1A TPNS 1R11NPZ101A	3/31/2014	01-14-07
1	Snubber	Replace mechanical Snubber RC 1000-SS-0001, Model AD 151 S/N 458	3/31/2014	01-14-08
1	Plug	Replaced seal plug on #81 IDD top reactor head penetration	5/24/2014	01-14-09
2	Valve	Replaced 3" Valve internal components on CVCS Charging Discharge Header Flow Control Valve A1CVFCV0205	4/15/2014	01-14-10

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