



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

March 24, 2014
NOC-AE-14003112
10 CFR 50.55(a)

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

South Texas Project
Unit 2
Docket No. STN 50-499
Inservice Inspection Summary Report – 2RE16

Attached are four copies of the South Texas Project Unit 2 summary report for inservice inspections performed prior to and during scheduled refueling outage 2RE16 completed in December 2013. 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

Attachment: Summary Report for 2RE16 Inservice Inspection of Unit 2 South Texas Project Electric Generating Station (4 copies)

STI: 33846605

A047
NKR

cc:
(paper copy)

(electronic copy)

Regional Administrator, Region IV
U. S. Nuclear Regulatory Commission
1600 East Lamar Boulevard
Arlington, TX 76011-4511

A. H. Gutterman, Esquire
Morgan, Lewis & Bockius LLP

Balwant K. Singal
U. S. Nuclear Regulatory Commission

Balwant K. Singal
Senior Project Manager
U.S. Nuclear Regulatory Commission
One White Flint North (MS 8 B1)
11555 Rockville Pike
Rockville, MD 20852

John Ragan
Chris O'Hara
Jim von Suskil
NRG South Texas LP

Senior Resident Inspector
U. S. Nuclear Regulatory Commission
P. O. Box 289, Mail Code: MN116
Wadsworth, TX 77483

Kevin Pollo
Richard Peña
L.D. Blaylock
City Public Service

Jim Collins
City of Austin
Electric Utility Department
721 Barton Springs Road
Austin, TX 78704

Peter Nemeth
Crain Caton & James, P.C.

C. Mele
City of Austin

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

SUMMARY REPORT
For the
INSERVICE INSPECTION
of
UNIT 2

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION

OUTAGE: 2RE16

STP NUCLEAR OPERATING COMPANY
December 2013

COVER SHEET

OUTAGE: 2RE16

INSERVICE INSPECTION SUMMARY REPORT

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2

P.O. BOX 289

WADSWORTH, TEXAS 77483

USNRC DOCKET NO: 50-499

OPERATING LICENSE NO: NPF-80

COMMERCIAL OPERATION DATE: JUNE 19, 1989

Prepared by: J. Stauber 3/21/14
J. Stauber, ISI Program Engineer

Reviewed by: C. Younger 21 MAR 2014
C. Younger, Supervising Engineer

SCOPE

COMPONENT SUPPORTS, REPAIR AND REPLACEMENT, STEAM GENERATOR TUBING, SYSTEM PRESSURE TESTS AND WELD INSPECTION PROGRAMS (ASME IWB, IWC, IWD, 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 2, third ten-year interval (10/19/2010-10/18/2020), first period (10/19/2010-12/31/2013). This report covers selected ASME Code Class 1, 2 & 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 and IWD-2412 for ASME Code Class 3 Systems/Components and IWF-2410 for Component Supports.

The 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 Code Table IWF-2500-1.

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

Corrected

Report Number OAR-2RE16Plant South Texas Project Electric Generating StationUnit No. 2 Commercial service date JUNE 19, 1989 Refueling outage no. 2RE16
(If applicable)Current inspection interval IWB, IWC, IWD, IWF - 3rd
(1st, 2nd, 3rd, 4th, other)Current inspection period IWB, IWC, IWD, IWF - 1st
(1st, 2nd, 3rd)Edition and Addenda of Section XI applicable to the inspection plans 2004 No AddendaDate and revision of inspection plans Revision 7 Effective date: 10/8/2012, Supplement 1 Effective date: 7/18/2013Edition and Addenda of Section XI applicable to repairs/replacement activities, if different than the inspection plans N/ACode Cases used: N-460, N-532-4, N-578-1, N-722-1, 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 2RE16 conform to the requirements of Section XI.
(Refueling outage number)

Signed SAFAR SHOSAEI SMJ Testing/Programs Engineer Date 3-21-2014
(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 repair/replacement 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 or connected with this inspection.

R. M. Ahmad Commissions TX 756
Inspector's Signature R. M. Ahmad National Board, State, Province, and Endorsements

Date MAR. 21, 2014

TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT
REQUIRE EVALUATION FOR CONTINUED SERVICE

2RE16
December 2013

Examination Category	Items 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 Rev.17 (ASME Section XI Inservice Inspection) documents Inservice Inspection activities during 2RE16.

TABLE 2

**ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE**

2RE16
December 2013

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
2	Valve	Temp Mod restoration of SB Valve	4/30/2010	2-10-28
2	Valve	Replaced SB Valve	12/09/2013	2-11-05
3	Valve	Replaced EW Valve	01/17/2012	2-11-10
2	U-Strap	Replaced U-Strap Support	03/01/2012	2-11-14
2	Pipe	Replaced 2" CV Piping	02/17/2012	2-11-19
3	Valve	Replaced EW Valve	08/13/2012	2-11-39
3	Pipe	Installed EW Pipe Plugs	01/19/2012	2-11-42
3	Pump	Replaced EW Pump with Product Lubricated Pump	01/24/2012	2-11-48
3	Seismic Support	Modification of Seismic Support	01/24/2012	2-11-49
3	Valve	Replaced EW Valve	01/27/2012	2-11-51
3	Pipe	Replaced CH Flange Bolting	01/20/2012	2-12-05
3	Pipe	Replaced EW Flange Bolting	01/26/2012	2-12-06
3	Pipe	Machined spacer plate – EW Flange	01/24/2012	2-12-07
3	Pipe	Replaced EW Flange & Piping	01/26/2012	2-12-08
3	Valve	Replaced CH Valve Disk	01/20/2012	2-12-09
3	Pipe	Replaced EW Pipe Spool	05/17/2012	2-12-11
3	Valve	Replaced EW Valve Disk	05/31/2012	2-12-12
3	Pump	Replaced CC Pump Gland Plate	06/08/2012	2-12-13
3	Valve	Replaced EW Valve	05/17/2012	2-12-15
1	Valve	Repaired SI Valve Seal Cap	04/18/2012	2-12-22
3	Pipe	Replaced EW Flange and Bolting	03/01/2012	2-12-23
3	Pipe	Repaired EW Flange and Replaced Piping	11/25/2012	2-12-24
3	Strainer	Replaced EW Strainer Bolting	05/18/2012	2-12-26
2	Valve	Replaced EW Valve and Bolting	04/18/2012	2-12-28
2	Valve	Replaced EW Valve and Bolting	10/02/2012	2-12-31
2	Valve	Replaced EW Valve Plug	06/11/2013	2-12-32
3	Valve	Replaced EW Valve	08/14/2012	2-12-33
1	Valve	Replaced RC PSV Valve	12/14/2013	2-12-39
1	Valve	Replaced RC PSV Valve	12/14/2013	2-12-40
1	Valve	Replaced RC PSV Valve	12/14/2013	2-12-41
3	Pump	Replaced RC Pump Motor Oil Coolers	12/12/2013	2-12-42

TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

2RE16
December 2013

* = Corrected

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
1	Valve	Replaced RC Valve Parts and Bolting	04/13/2013	2-12-45
3	Filter	Replaced EW Filter Outlet Column End Cap	03/20/2013	2-12-46
2	Pipe Strap	Removed and Reinstalled CV Pipe Strap	12/16/2013	2-12-48
2	Valve	Replaced MS Valve Plug	12/15/2013	2-12-52
3	Cooling Coil	Repaired EW Cooling Coil Leak	11/27/2012	2-12-54
1	Steam Generator	Removed and Installed Steam Generator Diaphragms	12/04/2013	2-12-57
3	Pump	Replaced RCP Motor Cooler Bolting	12/15/2013	2-12-62
3	Pump	Replaced RCP Motor Cooler Bolting	12/14/2013	2-12-63
2	Valve	Replaced FW Valve Hinge Pins	12/04/2013	2-13-04
1	Valve	Seal Welded RC Valve Body to Bonnet	04/1/2013	2-13-09
3	Pipe	Replaced EW Sockolet and Piping	02/21/2013	2-13-10
3	Pipe	Replaced CH Flange Bolting	05/09/2013	2-13-14
1	Pump	Replaced RC Pump Seal Housing Bolting	12/14/2013	2-13-15 *
1	Valve	Replaced RC Valve	04/04/2013	2-13-17
3	Pipe	Replaced EW Flange and Piping	03/01/2013	2-13-18
3	Valve	Replaced EW Valve	05/06/2013	2-13-19
3	Pipe	Replaced EW Flange and Piping	03/22/2013	2-13-20
1	Valve	Repaired EW Valve Body	03/22/2013	2-13-21
1	Valve	Repaired RC Valve	3/11/2013	2-13-22
3	Pipe	Replaced EW Flange and Piping	03/21/2013	2-13-24
3	Pipe	Replaced EW Flange and Piping	10/30/2013	2-13-25
1	Pipe Support	Replaced RC Pipe Support	03/29/2013	2-13-26
2	Pipe	Replaced EW Flange and Piping	05/07/2013	2-13-27
3	Valve	Repaired EW Valve	05/13/2013	2-13-28
3	Pipe	Replaced EW Flange and Piping	05/09/2013	2-13-30
3	Chiller	Replaced CH Chiller Bolting	05/09/2013	2-13-32
1	Valve	Replaced SI Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-13-34
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-12-35
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-12-36
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/02/2013	2-12-37

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1	Valve	Replaced RC Valve Bonnet Bolting and Sealed Welded Bonnet	12/06/2013	2-12-40
3	Pump	Replaced EW Pump Lubrication Piping	10/12/2013	2-13-41
3	Pipe	Replaced EW Flange and Piping	10/10/2013	2-13-42
3	Pipe	Replaced EW Flange and Piping	10/08/2013	2-13-43
1	Valve	Replaced RH Valve Disc	12/02/2013	2-13-45
3	Pipe	Replaced EW Piping	10/19/2013	2-13-47
3	Pipe	Replaced EW Piping	10/30/2013	2-13-48
3	Pipe	Replaced EW Piping	10/31/2013	2-13-49
3	Pipe	Replaced EW Piping	11/1/2013	2-13-51
3	Pump	Replaced EW Pump	10/11/2013	2-13-52
3	Pipe Support	Repaired EW Pipe Support	10/11/2013	2-13-53
3	Valve	Replaced EW Valve	10/30/2013	2-13-54
2	Valve	Replaced HC Valve	12/14/2013	2-13-55
3	Pump	Fabricated new FC Pump Gland	10-07-2013	2-13-56
3	Pump	Replaced FC Pump Gland	10/07/2013	2-13-57
3	Strainer	Replaced EW Strainer Bolting	10/11/2013	2-13-58
3	Strainer	Replaced EW Strainer Bolting	10/11/2013	2-13-59
3	Valve	Replaced EW Valve	10/11/2013	2-13-60
2	Valve	Replaced CV Valve Plug	12/12/2013	2-13-61
2	Pump	Replaced RH Pump Seal Housing	11/21/2013	2-13-63
1	Valve	Replaced RC Valve Bonnet	12/18/2013	2-13-64
2	Valve	Replaced CV Valve	12/03/2013	2-13-65
1	Steam Generator	Replaced Steam Generator Manway Bolting	12/12/2013	2-13-69
1	Valve	Seal weld RH Valve Bonnet	12/02/2013	2-13-70
1	Snubber	Replaced RC Snubber	12/10/2013	2-13-71

SUMMARY REPORT
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OUTAGE: 2RE16

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Prepared by:

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J. Stauber, ISI Program Engineer

3/21/14

Reviewed by:

C. Younger
C. Younger, Supervising Engineer

21 MAR 2014

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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 2RE16 conform to the requirements of Section XI.
(Refueling outage number)

Signed SAFAR SHOSAEI SMJ Testing/Programs Engineer Date 3-21-2014
(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 repair/replacement 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 or connected with this inspection.

R. M. Ahmad Commissions TX 756
Inspector's Signature R. M. Ahmad National Board, State, Province, and Endorsements

Date MAR. 21, 2014

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2	U-Strap	Replaced U-Strap Support	03/01/2012	2-11-14
2	Pipe	Replaced 2" CV Piping	02/17/2012	2-11-19
3	Valve	Replaced EW Valve	08/13/2012	2-11-39
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3	Pump	Replaced EW Pump with Product Lubricated Pump	01/24/2012	2-11-48
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3	Pipe	Replaced CH Flange Bolting	01/20/2012	2-12-05
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1	Valve	Repaired SI Valve Seal Cap	04/18/2012	2-12-22
3	Pipe	Replaced EW Flange and Bolting	03/01/2012	2-12-23
3	Pipe	Repaired EW Flange and Replaced Piping	11/25/2012	2-12-24
3	Strainer	Replaced EW Strainer Bolting	05/18/2012	2-12-26
2	Valve	Replaced EW Valve and Bolting	04/18/2012	2-12-28
2	Valve	Replaced EW Valve and Bolting	10/02/2012	2-12-31
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3	Pipe	Replaced EW Flange and Piping	03/01/2013	2-13-18
3	Valve	Replaced EW Valve	05/06/2013	2-13-19
3	Pipe	Replaced EW Flange and Piping	03/22/2013	2-13-20
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1	Valve	Repaired RC Valve	3/11/2013	2-13-22
3	Pipe	Replaced EW Flange and Piping	03/21/2013	2-13-24
3	Pipe	Replaced EW Flange and Piping	10/30/2013	2-13-25
1	Pipe Support	Replaced RC Pipe Support	03/29/2013	2-13-26
2	Pipe	Replaced EW Flange and Piping	05/07/2013	2-13-27
3	Valve	Repaired EW Valve	05/13/2013	2-13-28
3	Pipe	Replaced EW Flange and Piping	05/09/2013	2-13-30
3	Chiller	Replaced CH Chiller Bolting	05/09/2013	2-13-32
1	Valve	Replaced SI Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-13-34
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-12-35
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-12-36
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/02/2013	2-12-37

TABLE 2

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3	Pipe	Replaced EW Flange and Piping	10/08/2013	2-13-43
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3	Pipe	Replaced EW Piping	10/19/2013	2-13-47
3	Pipe	Replaced EW Piping	10/30/2013	2-13-48
3	Pipe	Replaced EW Piping	10/31/2013	2-13-49
3	Pipe	Replaced EW Piping	11/1/2013	2-13-51
3	Pump	Replaced EW Pump	10/11/2013	2-13-52
3	Pipe Support	Repaired EW Pipe Support	10/11/2013	2-13-53
3	Valve	Replaced EW Valve	10/30/2013	2-13-54
2	Valve	Replaced HC Valve	12/14/2013	2-13-55
3	Pump	Fabricated new FC Pump Gland	10-07-2013	2-13-56
3	Pump	Replaced FC Pump Gland	10/07/2013	2-13-57
3	Strainer	Replaced EW Strainer Bolting	10/11/2013	2-13-58
3	Strainer	Replaced EW Strainer Bolting	10/11/2013	2-13-59
3	Valve	Replaced EW Valve	10/11/2013	2-13-60
2	Valve	Replaced CV Valve Plug	12/12/2013	2-13-61
2	Pump	Replaced RH Pump Seal Housing	11/21/2013	2-13-63
1	Valve	Replaced RC Valve Bonnet	12/18/2013	2-13-64
2	Valve	Replaced CV Valve	12/03/2013	2-13-65
1	Steam Generator	Replaced Steam Generator Manway Bolting	12/12/2013	2-13-69
1	Valve	Seal weld RH Valve Bonnet	12/02/2013	2-13-70
1	Snubber	Replaced RC Snubber	12/10/2013	2-13-71

SUMMARY REPORT
For the
INSERVICE INSPECTION
of
UNIT 2

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION

OUTAGE: 2RE16

STP NUCLEAR OPERATING COMPANY
December 2013

COVER SHEET

OUTAGE: 2RE16

INSERVICE INSPECTION SUMMARY REPORT

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2

P.O. BOX 289

WADSWORTH, TEXAS 77483

USNRC DOCKET NO: 50-499

OPERATING LICENSE NO: NPF-80

COMMERCIAL OPERATION DATE: JUNE 19, 1989

Prepared by:

J. Stauber
J. Stauber, ISI Program Engineer

3/21/14

Reviewed by:

C. Younger
C. Younger, Supervising Engineer

21 MAR 2014

SCOPE

COMPONENT SUPPORTS, REPAIR AND REPLACEMENT, STEAM GENERATOR TUBING, SYSTEM PRESSURE TESTS AND WELD INSPECTION PROGRAMS (ASME IWB, IWC, IWD, 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 2, third ten-year interval (10/19/2010-10/18/2020), first period (10/19/2010-12/31/2013). This report covers selected ASME Code Class 1, 2 & 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 and IWD-2412 for ASME Code Class 3 Systems/Components and IWF-2410 for Component Supports.

The 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 Code Table IWF-2500-1.

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

Corrected

Report Number OAR-2RE16Plant South Texas Project Electric Generating StationUnit No. 2 Commercial service date JUNE 19, 1989 Refueling outage no. 2RE16
(If applicable)Current inspection interval IWB, IWC, IWD, IWF - 3rd
(1st, 2nd, 3rd, 4th, other)Current inspection period IWB, IWC, IWD, IWF - 1st
(1st, 2nd, 3rd)Edition and Addenda of Section XI applicable to the inspection plans 2004 No AddendaDate and revision of inspection plans Revision 7 Effective date: 10/8/2012, Supplement 1 Effective date: 7/18/2013Edition and Addenda of Section XI applicable to repairs/replacement activities, if different than the inspection plans N/ACode Cases used: N-460, N-532-4, N-578-1, N-722-1, 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 2RE16 conform to the requirements of Section XI.
(Refueling outage number)

Signed

SAFAR SHOSAEI SMJ
(Owner or Owner's Designee, Title)

Testing/Programs Engineer

Date 3-21-2014

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 repair/replacement 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 or connected with this inspection.

R. Niemad Commissions
Inspector's Signature R. Niemad

TX 756
National Board, State, Province, and Endorsements

Date

MAR. 21, 2014

TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT
REQUIRE EVALUATION FOR CONTINUED SERVICE

2RE16
December 2013

Examination Category	Items 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 OPSP11-RC-0015 Rev.17 (ASME Section XI Inservice Inspection) documents Inservice Inspection activities during 2RE16.

TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

2RE16

December 2013

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
2	Valve	Temp Mod restoration of SB Valve	4/30/2010	2-10-28
2	Valve	Replaced SB Valve	12/09/2013	2-11-05
3	Valve	Replaced EW Valve	01/17/2012	2-11-10
2	U-Strap	Replaced U-Strap Support	03/01/2012	2-11-14
2	Pipe	Replaced 2" CV Piping	02/17/2012	2-11-19
3	Valve	Replaced EW Valve	08/13/2012	2-11-39
3	Pipe	Installed EW Pipe Plugs	01/19/2012	2-11-42
3	Pump	Replaced EW Pump with Product Lubricated Pump	01/24/2012	2-11-48
3	Seismic Support	Modification of Seismic Support	01/24/2012	2-11-49
3	Valve	Replaced EW Valve	01/27/2012	2-11-51
3	Pipe	Replaced CH Flange Bolting	01/20/2012	2-12-05
3	Pipe	Replaced EW Flange Bolting	01/26/2012	2-12-06
3	Pipe	Machined spacer plate – EW Flange	01/24/2012	2-12-07
3	Pipe	Replaced EW Flange & Piping	01/26/2012	2-12-08
3	Valve	Replaced CH Valve Disk	01/20/2012	2-12-09
3	Pipe	Replaced EW Pipe Spool	05/17/2012	2-12-11
3	Valve	Replaced EW Valve Disk	05/31/2012	2-12-12
3	Pump	Replaced CC Pump Gland Plate	06/08/2012	2-12-13
3	Valve	Replaced EW Valve	05/17/2012	2-12-15
1	Valve	Repaired SI Valve Seal Cap	04/18/2012	2-12-22
3	Pipe	Replaced EW Flange and Bolting	03/01/2012	2-12-23
3	Pipe	Repaired EW Flange and Replaced Piping	11/25/2012	2-12-24
3	Strainer	Replaced EW Strainer Bolting	05/18/2012	2-12-26
2	Valve	Replaced EW Valve and Bolting	04/18/2012	2-12-28
2	Valve	Replaced EW Valve and Bolting	10/02/2012	2-12-31
2	Valve	Replaced EW Valve Plug	06/11/2013	2-12-32
3	Valve	Replaced EW Valve	08/14/2012	2-12-33
1	Valve	Replaced RC PSV Valve	12/14/2013	2-12-39
1	Valve	Replaced RC PSV Valve	12/14/2013	2-12-40
1	Valve	Replaced RC PSV Valve	12/14/2013	2-12-41
3	Pump	Replaced RC Pump Motor Oil Coolers	12/12/2013	2-12-42

TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

2RE16
December 2013

* = Corrected

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
1	Valve	Replaced RC Valve Parts and Bolting	04/13/2013	2-12-45
3	Filter	Replaced EW Filter Outlet Column End Cap	03/20/2013	2-12-46
2	Pipe Strap	Removed and Reinstalled CV Pipe Strap	12/16/2013	2-12-48
2	Valve	Replaced MS Valve Plug	12/15/2013	2-12-52
3	Cooling Coil	Repaired EW Cooling Coil Leak	11/27/2012	2-12-54
1	Steam Generator	Removed and Installed Steam Generator Diaphragms	12/04/2013	2-12-57
3	Pump	Replaced RCP Motor Cooler Bolting	12/15/2013	2-12-62
3	Pump	Replaced RCP Motor Cooler Bolting	12/14/2013	2-12-63
2	Valve	Replaced FW Valve Hinge Pins	12/04/2013	2-13-04
1	Valve	Seal Welded RC Valve Body to Bonnet	04/1/2013	2-13-09
3	Pipe	Replaced EW Sockolet and Piping	02/21/2013	2-13-10
3	Pipe	Replaced CH Flange Bolting	05/09/2013	2-13-14
1	Pump	Replaced RC Pump Seal Housing Bolting	12/14/2013	2-13-15 *
1	Valve	Replaced RC Valve	04/04/2013	2-13-17
3	Pipe	Replaced EW Flange and Piping	03/01/2013	2-13-18
3	Valve	Replaced EW Valve	05/06/2013	2-13-19
3	Pipe	Replaced EW Flange and Piping	03/22/2013	2-13-20
1	Valve	Repaired EW Valve Body	03/22/2013	2-13-21
1	Valve	Repaired RC Valve	3/11/2013	2-13-22
3	Pipe	Replaced EW Flange and Piping	03/21/2013	2-13-24
3	Pipe	Replaced EW Flange and Piping	10/30/2013	2-13-25
1	Pipe Support	Replaced RC Pipe Support	03/29/2013	2-13-26
2	Pipe	Replaced EW Flange and Piping	05/07/2013	2-13-27
3	Valve	Repaired EW Valve	05/13/2013	2-13-28
3	Pipe	Replaced EW Flange and Piping	05/09/2013	2-13-30
3	Chiller	Replaced CH Chiller Bolting	05/09/2013	2-13-32
1	Valve	Replaced SI Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-13-34
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-12-35
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-12-36
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/02/2013	2-12-37

TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

2RE16
December 2013

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/02/2013	2-12-38
1	Valve	Replaced RC Valve Bonnet Bolting and Sealed Welded Bonnet	12/06/2013	2-12-40
3	Pump	Replaced EW Pump Lubrication Piping	10/12/2013	2-13-41
3	Pipe	Replaced EW Flange and Piping	10/10/2013	2-13-42
3	Pipe	Replaced EW Flange and Piping	10/08/2013	2-13-43
1	Valve	Replaced RH Valve Disc	12/02/2013	2-13-45
3	Pipe	Replaced EW Piping	10/19/2013	2-13-47
3	Pipe	Replaced EW Piping	10/30/2013	2-13-48
3	Pipe	Replaced EW Piping	10/31/2013	2-13-49
3	Pipe	Replaced EW Piping	11/1/2013	2-13-51
3	Pump	Replaced EW Pump	10/11/2013	2-13-52
3	Pipe Support	Repaired EW Pipe Support	10/11/2013	2-13-53
3	Valve	Replaced EW Valve	10/30/2013	2-13-54
2	Valve	Replaced HC Valve	12/14/2013	2-13-55
3	Pump	Fabricated new FC Pump Gland	10-07-2013	2-13-56
3	Pump	Replaced FC Pump Gland	10/07/2013	2-13-57
3	Strainer	Replaced EW Strainer Bolting	10/11/2013	2-13-58
3	Strainer	Replaced EW Strainer Bolting	10/11/2013	2-13-59
3	Valve	Replaced EW Valve	10/11/2013	2-13-60
2	Valve	Replaced CV Valve Plug	12/12/2013	2-13-61
2	Pump	Replaced RH Pump Seal Housing	11/21/2013	2-13-63
1	Valve	Replaced RC Valve Bonnet	12/18/2013	2-13-64
2	Valve	Replaced CV Valve	12/03/2013	2-13-65
1	Steam Generator	Replaced Steam Generator Manway Bolting	12/12/2013	2-13-69
1	Valve	Seal weld RH Valve Bonnet	12/02/2013	2-13-70
1	Snubber	Replaced RC Snubber	12/10/2013	2-13-71

SUMMARY REPORT
For the
INSERVICE INSPECTION
of
UNIT 2

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION

OUTAGE: 2RE16

STP NUCLEAR OPERATING COMPANY
December 2013

COVER SHEET

OUTAGE: 2RE16

INSERVICE INSPECTION SUMMARY REPORT

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2

P.O. BOX 289

WADSWORTH, TEXAS 77483

USNRC DOCKET NO: 50-499

OPERATING LICENSE NO: NPF-80

COMMERCIAL OPERATION DATE: JUNE 19, 1989

Prepared by: J. Stauber 3/21/14
J. Stauber, ISI Program Engineer

Reviewed by: C. Younger 21 MAR 2014
C. Younger, Supervising Engineer

SCOPE

COMPONENT SUPPORTS, REPAIR AND REPLACEMENT, STEAM GENERATOR TUBING, SYSTEM PRESSURE TESTS AND WELD INSPECTION PROGRAMS (ASME IWB, IWC, IWD, 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 2, third ten-year interval (10/19/2010-10/18/2020), first period (10/19/2010-12/31/2013). This report covers selected ASME Code Class 1, 2 & 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 and IWD-2412 for ASME Code Class 3 Systems/Components and IWF-2410 for Component Supports.

The 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 Code Table IWF-2500-1.

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

Corrected

Report Number OAR-2RE16

Plant South Texas Project Electric Generating Station

Unit No. 2 Commercial service date JUNE 19, 1989 Refueling outage no. 2RE16
(If applicable)

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

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

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

Date and revision of inspection plans Revision 7 Effective date: 10/8/2012, Supplement 1 Effective date: 7/18/2013

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

Code Cases used: N-460, N-532-4, N-578-1, N-722-1, 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 2RE16 conform to the requirements of Section XI.
(Refueling outage number)

Signed

SAFAR SHOSAEI SMJ
(Owner or Owner's Designee, Title)

Testing/Programs Engineer

Date

3-21-2014

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 repair/replacement 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 or connected with this inspection.

R. M. Ahmad Commissions
Inspector's Signature R. M. Ahmad

TX 756
National Board, State, Province, and Endorsements

Date

MAR. 21, 2014

TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT
REQUIRE EVALUATION FOR CONTINUED SERVICE

2RE16
December 2013

Examination Category	Items 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 OPSP11-RC-0015 Rev.17 (ASME Section XI Inservice Inspection) documents Inservice Inspection activities during 2RE16.

TABLE 2

**ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE**

2RE16
December 2013

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
2	Valve	Temp Mod restoration of SB Valve	4/30/2010	2-10-28
2	Valve	Replaced SB Valve	12/09/2013	2-11-05
3	Valve	Replaced EW Valve	01/17/2012	2-11-10
2	U-Strap	Replaced U-Strap Support	03/01/2012	2-11-14
2	Pipe	Replaced 2" CV Piping	02/17/2012	2-11-19
3	Valve	Replaced EW Valve	08/13/2012	2-11-39
3	Pipe	Installed EW Pipe Plugs	01/19/2012	2-11-42
3	Pump	Replaced EW Pump with Product Lubricated Pump	01/24/2012	2-11-48
3	Seismic Support	Modification of Seismic Support	01/24/2012	2-11-49
3	Valve	Replaced EW Valve	01/27/2012	2-11-51
3	Pipe	Replaced CH Flange Bolting	01/20/2012	2-12-05
3	Pipe	Replaced EW Flange Bolting	01/26/2012	2-12-06
3	Pipe	Machined spacer plate – EW Flange	01/24/2012	2-12-07
3	Pipe	Replaced EW Flange & Piping	01/26/2012	2-12-08
3	Valve	Replaced CH Valve Disk	01/20/2012	2-12-09
3	Pipe	Replaced EW Pipe Spool	05/17/2012	2-12-11
3	Valve	Replaced EW Valve Disk	05/31/2012	2-12-12
3	Pump	Replaced CC Pump Gland Plate	06/08/2012	2-12-13
3	Valve	Replaced EW Valve	05/17/2012	2-12-15
1	Valve	Repaired SI Valve Seal Cap	04/18/2012	2-12-22
3	Pipe	Replaced EW Flange and Bolting	03/01/2012	2-12-23
3	Pipe	Repaired EW Flange and Replaced Piping	11/25/2012	2-12-24
3	Strainer	Replaced EW Strainer Bolting	05/18/2012	2-12-26
2	Valve	Replaced EW Valve and Bolting	04/18/2012	2-12-28
2	Valve	Replaced EW Valve and Bolting	10/02/2012	2-12-31
2	Valve	Replaced EW Valve Plug	06/11/2013	2-12-32
3	Valve	Replaced EW Valve	08/14/2012	2-12-33
1	Valve	Replaced RC PSV Valve	12/14/2013	2-12-39
1	Valve	Replaced RC PSV Valve	12/14/2013	2-12-40
1	Valve	Replaced RC PSV Valve	12/14/2013	2-12-41
3	Pump	Replaced RC Pump Motor Oil Coolers	12/12/2013	2-12-42

TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

2RE16

December 2013

* = Corrected

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
1	Valve	Replaced RC Valve Parts and Bolting	04/13/2013	2-12-45
3	Filter	Replaced EW Filter Outlet Column End Cap	03/20/2013	2-12-46
2	Pipe Strap	Removed and Reinstalled CV Pipe Strap	12/16/2013	2-12-48
2	Valve	Replaced MS Valve Plug	12/15/2013	2-12-52
3	Cooling Coil	Repaired EW Cooling Coil Leak	11/27/2012	2-12-54
1	Steam Generator	Removed and Installed Steam Generator Diaphragms	12/04/2013	2-12-57
3	Pump	Replaced RCP Motor Cooler Bolting	12/15/2013	2-12-62
3	Pump	Replaced RCP Motor Cooler Bolting	12/14/2013	2-12-63
2	Valve	Replaced FW Valve Hinge Pins	12/04/2013	2-13-04
1	Valve	Seal Welded RC Valve Body to Bonnet	04/1/2013	2-13-09
3	Pipe	Replaced EW Sockolet and Piping	02/21/2013	2-13-10
3	Pipe	Replaced CH Flange Bolting	05/09/2013	2-13-14
1	Pump	Replaced RC Pump Seal Housing Bolting	12/14/2013	2-13-15 *
1	Valve	Replaced RC Valve	04/04/2013	2-13-17
3	Pipe	Replaced EW Flange and Piping	03/01/2013	2-13-18
3	Valve	Replaced EW Valve	05/06/2013	2-13-19
3	Pipe	Replaced EW Flange and Piping	03/22/2013	2-13-20
1	Valve	Repaired EW Valve Body	03/22/2013	2-13-21
1	Valve	Repaired RC Valve	3/11/2013	2-13-22
3	Pipe	Replaced EW Flange and Piping	03/21/2013	2-13-24
3	Pipe	Replaced EW Flange and Piping	10/30/2013	2-13-25
1	Pipe Support	Replaced RC Pipe Support	03/29/2013	2-13-26
2	Pipe	Replaced EW Flange and Piping	05/07/2013	2-13-27
3	Valve	Repaired EW Valve	05/13/2013	2-13-28
3	Pipe	Replaced EW Flange and Piping	05/09/2013	2-13-30
3	Chiller	Replaced CH Chiller Bolting	05/09/2013	2-13-32
1	Valve	Replaced SI Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-13-34
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-12-35
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/03/2013	2-12-36
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/02/2013	2-12-37

TABLE 2

ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE

2RE16

December 2013

Code Class	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
1	Valve	Replaced CV Valve Bonnet Bolting and Sealed Welded Bonnet	12/02/2013	2-12-38
1	Valve	Replaced RC Valve Bonnet Bolting and Sealed Welded Bonnet	12/06/2013	2-12-40
3	Pump	Replaced EW Pump Lubrication Piping	10/12/2013	2-13-41
3	Pipe	Replaced EW Flange and Piping	10/10/2013	2-13-42
3	Pipe	Replaced EW Flange and Piping	10/08/2013	2-13-43
1	Valve	Replaced RH Valve Disc	12/02/2013	2-13-45
3	Pipe	Replaced EW Piping	10/19/2013	2-13-47
3	Pipe	Replaced EW Piping	10/30/2013	2-13-48
3	Pipe	Replaced EW Piping	10/31/2013	2-13-49
3	Pipe	Replaced EW Piping	11/1/2013	2-13-51
3	Pump	Replaced EW Pump	10/11/2013	2-13-52
3	Pipe Support	Repaired EW Pipe Support	10/11/2013	2-13-53
3	Valve	Replaced EW Valve	10/30/2013	2-13-54
2	Valve	Replaced HC Valve	12/14/2013	2-13-55
3	Pump	Fabricated new FC Pump Gland	10-07-2013	2-13-56
3	Pump	Replaced FC Pump Gland	10/07/2013	2-13-57
3	Strainer	Replaced EW Strainer Bolting	10/11/2013	2-13-58
3	Strainer	Replaced EW Strainer Bolting	10/11/2013	2-13-59
3	Valve	Replaced EW Valve	10/11/2013	2-13-60
2	Valve	Replaced CV Valve Plug	12/12/2013	2-13-61
2	Pump	Replaced RH Pump Seal Housing	11/21/2013	2-13-63
1	Valve	Replaced RC Valve Bonnet	12/18/2013	2-13-64
2	Valve	Replaced CV Valve	12/03/2013	2-13-65
1	Steam Generator	Replaced Steam Generator Manway Bolting	12/12/2013	2-13-69
1	Valve	Seal weld RH Valve Bonnet	12/02/2013	2-13-70
1	Snubber	Replaced RC Snubber	12/10/2013	2-13-71