



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

February 21, 2013
NOC-AE-13002968
10 CFR 50.55a

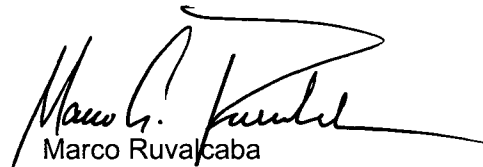
U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

South Texas Project
Unit 1
Docket No. STN 50-498
Inservice Inspection Summary Report – 1RE17

Attached are four copies of the South Texas Project Unit 1 summary report for inservice inspections performed prior to and during scheduled refueling outage 1RE17 completed in November, 2012. 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, please contact Coley Chappell at 361-972-4745, or me at 361-972-7904.



Marco Ruvalcaba
Manager,
Testing/Programs

ccc

Attachment: Summary Report for the 1RE17 Inservice Inspection of Unit 1 South Texas Project Electric Generating Station (4 copies)

A047
LRR

STI: 33658821

cc: (paper copy)

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U. S. Nuclear Regulatory Commission
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NRG South Texas LP

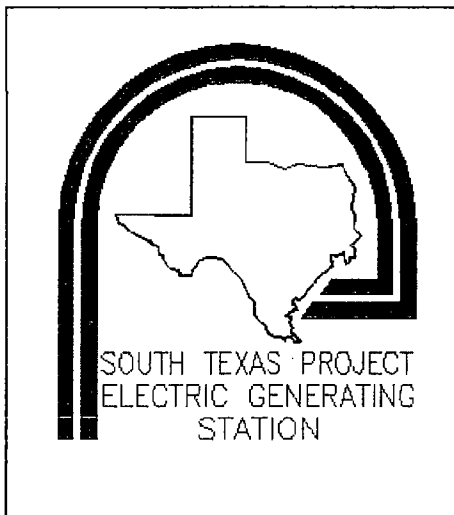
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Texas Department of State Health Services

**SUMMARY REPORT
for the
1RE17
INSERVICE INSPECTION
of
UNIT 1
SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION**



STP NUCLEAR OPERATING COMPANY
November 2012

COVER SHEET

1RE17 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 2/19/13

Reviewed by: 
L. Spiess, Supervisor, NDE Inspection Programs

Date 2/19/13

Reviewed by: 
M. Ruvalcaba, Testing/Programs Engineering Manager

Date 2/19/13

SCOPE

COMPONENT SUPPORTS, STEAM GENERATOR TUBING, REPAIR AND REPLACEMENT, SYSTEM PRESSURE TESTS AND WELD INSPECTION PROGRAMS (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 1, third ten-year interval (09/25/2010-09/24/2020), first period (09/25/2010-09/24/2013). This report covers selected ASME Code Class 1, 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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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), first period (09/09/2009-09/08/2013). 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.

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

Report Number OAR-IRE17

Plant South Texas Project Electric Generating Station

Unit No. 1 Commercial service date August 25, 1988 Refueling outage no. IRE17
(If applicable)

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

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

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

Date and revision of inspection plan October 08, 2012 / Revision 7

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

Code Cases used: N-532-4, N578-1, 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 IRE17 conform to the requirements of Section XI.
(Refueling outage number)

Signed [Signature] ISI Program Engineer
(Owner or Owner's Designee, Title)

Date 19FEB2013

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]
Inspector's Signature R.A. NIEMANN

Commissions

TX-756
National Board, State, Province, and Endorsements

Date 02/19/2013

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

1RE17
November 2012

Examination Category	Item Number	Item Description	Evaluation Description
C-H	C7.10	Refueling Water Storage Tank ASME Class 2 TPNS # 2N121NTF101A	CR 11-17459 External leakage indicated during performance of PM 99000649. Dry boric acid was identified under the base lip of the RWST in three locations. Repair/ Replacement required (R&R No. 1-12-025)

NOTES:

1. Surveillance procedure 0PSP11-RC-0015 Revision 17, ASME Section XI Inservice Inspection, documents Inservice Inspection activities during 1RE17.

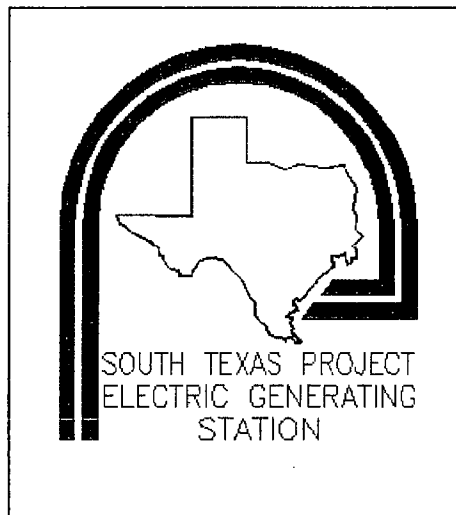
TABLE 2
ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
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Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
3	Replacement	Valve Disc	Removal and application of tack welds on code valve disc	8/25/11	1-08-048
2	Replacement	Valve Parts	Replaced damaged valve parts	9/12/12	1-10-004
1	Repair	Valve	Repaired bevel ends of valve	07/28/11	1-10-006
2	Repair	Valve	Repaired seal welded body/bonnet	11/05/12	1-10-020
3	Replacement	Valve	Replaced plates, hinge and stop pin retainers, rebored stop pin bore.	08/31/11	1-10-033
3	Replacement	Valve	Replaced old valve with new SS valve	05/11/11	1-11-011
3	Replacement	Valve	Replace valve with new	05/11/11	1-11-015
3	Replacement	Valve	Replaced valve with new style	06/14/11	1-11-016
2	Replacement	Valve	Replaced 3 vent valve assemblies	10/11/11	1-11-028
2	Replacement	Valve	Replaced 2" CV-1210-BB2	11/10/12	1-11-030
3	Replacement	Valve	Replaced valve plug	08/02/11	1-11-035
3	Replacement	Transmitter	Replaced CVCS Make-up Flow Transmitter	10/12/11	1-11-036
3	Replacement	Valve	Replaced valve parts	12/12/11	1-11-037
1	Replacement	Seals	Replaced Seal Package in 1B RCP	11/09/12	1-12-010
3	Replacement	RCP Coolers	Replaced upper bearing oil cooler & 2 Motor air coolers.	11/13/12	1-12-011
1	Replacement	Valve	Replaced PSV with tested PSV	11/13/12	1-12-012
1	Replacement	Valve	Replaced PSV with tested PSV	11/13/12	1-12-013
1	Replacement	Valve	Replaced PSV with tested PSV	11/13/12	1-12-014
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3	Replacement	Valve	Replaced valve soft seat	05/03/2012	1-12-016
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3	Replacement	Valve	Replaced hinge pin bushings, valve plate bushing and stop pin bushings and installed new Nordel soft seal	06/25/12	1-12-021
1	Repair	Valve parts	Seal welded body to bonnet	11/08/12	1-12-022
2	Repair	Tank	Repaired RWST Floor plates after floor plate sample removal	11/13/12	1-12-025
2	Replacement	Valve	Replaced valve plug	11/20/12	1-12-027
3	Replacement	Valve	Replace valve parts	09/26/12	1-12-031
2	Replacement	Flange studs	Replaced flange studs and nut	08/21/12	1-12-33
1	Replacement	Spring Hanger Support	Replaced spring can support RH1101SH0001 with larger size	11/12/12	1-12-034
1	Replacement	Valve	Replaced bearing blocks, bonnet and fasteners	11/05/12	1-12-036
1	Repair	Valve	Seal welded bonnet to body joint	11/05/12	1-12-037
1	Repair	Valve	Removed liner indications found on seal cap weld	10/31/12	1-12-038
1	Repair	Valve	Seal welded body to bonnet joint	11/05/12	1-12-039
1	Replacement	Valve	Replaced valve bonnet and fasteners	11/05/12	1-12-040
1	Repair	Valve	Seal welded body to bonnet joint	11/05/12	1-12-042
1	Replacement	Valve	Replaced valve bonnet and fasteners	11/05/12	1-12-043
1	Repair	Valve	Seal welded body to bonnet joint	11/05/12	1-12-045
1	Replacement	Valve	Replaced valve bonnet and fasteners	11/05/12	1-12-046
2	Replacement	Pump Bolting	Replaced ASME bolting on 2 motor air coolers	11/20/12	1-12-048
1	Replacement	RCP Seal Package	Replaced Seals	11/20/12	1-12-049
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STP NUCLEAR OPERATING COMPANY

November 2012

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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

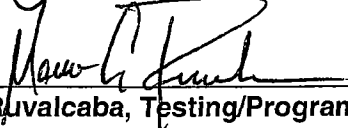
COMMERCIAL OPERATION DATE: AUGUST 25, 1988

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Date 2/19/13

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Reviewed by: 
M. Ruvalcaba, Testing/Programs Engineering Manager

Date 2/19/13

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(1st, 2nd, 3rd, 4th, other)

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(Refueling outage number)

Signed [Signature] ISI Program Engineer
(Owner or Owner's Designee, Title)

Date 19FEB2013

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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
Inspector's Signature R.A. NIEMANN

TX-756
National Board, State, Province, and Endorsements

Date 02/19/2013

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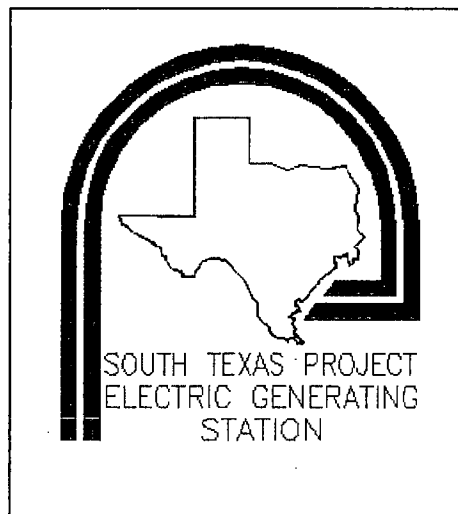
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Date 19FEB2013

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
Inspector's Signature R.A. NIEMANN

TX-756
National Board, State, Province, and Endorsements

Date 12/19/2013

TABLE 1

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

1RE17
November 2012

Examination Category	Item Number	Item Description	Evaluation Description
C-H	C7.10	Refueling Water Storage Tank ASME Class 2 TPNS # 2N121NTF101A	CR 11-17459 External leakage indicated during performance of PM 99000649. Dry boric acid was identified under the base lip of the RWST in three locations. Repair/ Replacement required (R&R No. 1-12-025)

NOTES:

1. Surveillance procedure OPSP11-RC-0015 Revision 17, ASME Section XI Inservice Inspection, documents Inservice Inspection activities during 1RE17.

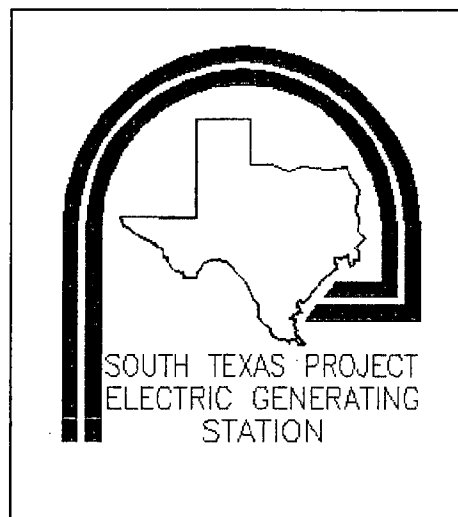
TABLE 2
ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE
1RE17
November 2012

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
3	Replacement	Valve Disc	Removal and application of tack welds on code valve disc	8/25/11	1-08-048
2	Replacement	Valve Parts	Replaced damaged valve parts	9/12/12	1-10-004
1	Repair	Valve	Repaired bevel ends of valve	07/28/11	1-10-006
2	Repair	Valve	Repaired seal welded body/bonnet	11/05/12	1-10-020
3	Replacement	Valve	Replaced plates, hinge and stop pin retainers, rebored stop pin bore.	08/31/11	1-10-033
3	Replacement	Valve	Replaced old valve with new SS valve	05/11/11	1-11-011
3	Replacement	Valve	Replace valve with new	05/11/11	1-11-015
3	Replacement	Valve	Replaced valve with new style	06/14/11	1-11-016
2	Replacement	Valve	Replaced 3 vent valve assemblies	10/11/11	1-11-028
2	Replacement	Valve	Replaced 2" CV-1210-BB2	11/10/12	1-11-030
3	Replacement	Valve	Replaced valve plug	08/02/11	1-11-035
3	Replacement	Transmitter	Replaced CVCS Make-up Flow Transmitter	10/12/11	1-11-036
3	Replacement	Valve	Replaced valve parts	12/12/11	1-11-037
1	Replacement	Seals	Replaced Seal Package in 1B RCP	11/09/12	1-12-010
3	Replacement	RCP Coolers	Replaced upper bearing oil cooler & 2 Motor air coolers.	11/13/12	1-12-011
1	Replacement	Valve	Replaced PSV with tested PSV	11/13/12	1-12-012
1	Replacement	Valve	Replaced PSV with tested PSV	11/13/12	1-12-013
1	Replacement	Valve	Replaced PSV with tested PSV	11/13/12	1-12-014
1	Replacement	Valve	Replaced PSV with tested PSV	11/13/12	1-12-015

TABLE 2
ABSTRACT OF REPAIRS/REPLACEMENT ACTIVITIES
REQUIRED FOR CONTINUED SERVICE
1RE17
November 2012

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
3	Replacement	Valve	Replaced valve soft seat	05/03/2012	1-12-016
3	Replacement	Valve	Replaced Check Valve	05/04/12	1-12-018
3	Replacement	Valve	Replaced hinge pin bushings, valve plate bushing and stop pin bushings and installed new Nordel soft seal	06/25/12	1-12-021
1	Repair	Valve parts	Seal welded body to bonnet	11/08/12	1-12-022
2	Repair	Tank	Repaired RWST Floor plates after floor plate sample removal	11/13/12	1-12-025
2	Replacement	Valve	Replaced valve plug	11/20/12	1-12-027
3	Replacement	Valve	Replace valve parts	09/26/12	1-12-031
2	Replacement	Flange studs	Replaced flange studs and nut	08/21/12	1-12-33
1	Replacement	Spring Hanger Support	Replaced spring can support RH1101SH0001 with larger size	11/12/12	1-12-034
1	Replacement	Valve	Replaced bearing blocks, bonnet and fasteners	11/05/12	1-12-036
1	Repair	Valve	Seal welded bonnet to body joint	11/05/12	1-12-037
1	Repair	Valve	Removed liner indications found on seal cap weld	10/31/12	1-12-038
1	Repair	Valve	Seal welded body to bonnet joint	11/05/12	1-12-039
1	Replacement	Valve	Replaced valve bonnet and fasteners	11/05/12	1-12-040
1	Repair	Valve	Seal welded body to bonnet joint	11/05/12	1-12-042
1	Replacement	Valve	Replaced valve bonnet and fasteners	11/05/12	1-12-043
1	Repair	Valve	Seal welded body to bonnet joint	11/05/12	1-12-045
1	Replacement	Valve	Replaced valve bonnet and fasteners	11/05/12	1-12-046
2	Replacement	Pump Bolting	Replaced ASME bolting on 2 motor air coolers	11/20/12	1-12-048
1	Replacement	RCP Seal Package	Replaced Seals	11/20/12	1-12-049
1	Replacement	Valve	Replaced valve stem and back seat	11/08/12	1-12-050

**SUMMARY REPORT
for the
1RE17
INSERVICE INSPECTION
of
UNIT 1
SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION**



STP NUCLEAR OPERATING COMPANY
November 2012

COVER SHEET

1RE17 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 2/19/13

Reviewed by: 
L. Spiess, Supervisor, NDE Inspection Programs

Date 2/19/13

Reviewed by: 
M. Ruvalcaba, Testing/Programs Engineering Manager

Date 2/19/13

SCOPE

COMPONENT SUPPORTS, STEAM GENERATOR TUBING, REPAIR AND REPLACEMENT, SYSTEM PRESSURE TESTS AND WELD INSPECTION PROGRAMS (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 1, third ten-year interval (09/25/2010-09/24/2020), first period (09/25/2010-09/24/2013). This report covers selected ASME Code Class 1, 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 and 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), first period (09/09/2009-09/08/2013). 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.

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

Report Number OAR-1RE17

Plant South Texas Project Electric Generating Station

Unit No. 1 Commercial service date August 25, 1988 Refueling outage no. 1RE17
(If applicable)

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

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

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

Date and revision of inspection plan October 08, 2012 / Revision 7

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

Code Cases used: N-532-4, N578-1, 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 1RE17 conform to the requirements of Section XI.
(Refueling outage number)

Signed [Signature] ISI Program Engineer
(Owner or Owner's Designee, Title)

Date 19FEB2013

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
Inspector's Signature R.A. NIEMANN

TX-756
National Board, State, Province, and Endorsements

Date 02/19/2013

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3	Replacement	Valve	Replaced old valve with new SS valve	05/11/11	1-11-011
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