

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

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

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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 Ruva**j**caba Manager, Testing/Programs

CCC

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

URR

STI: 33658821

cc: (paper copy)

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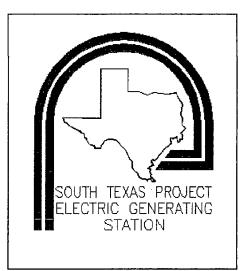
Peter Nemeth Crain Caton & James, P.C.

C. Mele City of Austin

Richard A. Ratliff Alice Rogers Texas Department of State Health Services

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



STP NUCLEAR OPERATING COMPANY November 2012

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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:	Date _ 2/19/13_
J. Williams, ISI Program Engineer	
Reviewed by:	Date_2/19/13
	Date
L. Spiess, Supervisor, NDE Inspection Prog	grams
Reviewed by: Maw & function	
Reviewed by: Nano G dunt	Date 2/19/13
M. Ruvalcaba, Testing/Programs Engineering	Manager

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<u>SCOPE</u>

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 tenyear 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.

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Peport Nunmber	OAR-1RE17		
Report Number_			
PlantSou	th Texas Project Electric Ger	nerating Station	······································
(If appli	cable)		Refueling outage no <u>1RE17</u>
Current inspection	interval <u>IWB, IWC,</u>	$\frac{\text{IWD, IWF} - 3^{\text{rd}}}{(1^{\text{st}}, 2^{\text{rd}}, 3^{\text{rd}})}$	nd , other)
Current inspectior	periodIWB, IWC, IWI	D, IWF – 1^{st} ; IWE – 1^{st}	(1 st , 2 nd , 3 rd)
-			$(1^{st}, 2^{nd}, 3^{rd})$
Edition and Adder	nda of Section XI applicable	to the inspection plan	2004 No Addenda
Date and revision	of inspection plan	October 08, 2012	/ Revision 7
Edition and Adde	ada of Section XI applicable	to renairs/replacement acti	vities, if different than the inspection plan N/A
Code Cases used:	N-532-4, $N5/8-1$, $N-/22-1$, 1	<u>N-770-1</u>	
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		port are correct; (b) the exa	aminations and tests meet the Inspection Plan as required
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by the ASME Co <u>1RE17</u>	de, Section XI; and (c) the re conform to the requirements	port are correct; (b) the exa pair/replacement activities	aminations and tests meet the Inspection Plan as required
by the ASME Co	de, Section XI; and (c) the re conform to the requirements	port are correct; (b) the exa pair/replacement activities	aminations and tests meet the Inspection Plan as required
by the ASME Co <u>1RE17</u>	de, Section XI; and (c) the re conform to the requirements e number)	port are correct; (b) the exa pair/replacement activities of Section XI.	aminations and tests meet the Inspection Plan as required and evaluations supporting the completion of
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TABLE 1

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

			<u> </u>
Examination Category	ltem 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)

1RE17 November 2012

NOTES:

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

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

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

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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	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

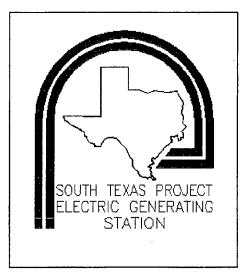
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SUMMARY REPORT for the 1RE17 INSERVICE INSPECTION of UNIT 1 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION



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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:	Date	2/19/13
J. Williams, ISI Program Engineer		
Reviewed by:		<u>z/19/1</u> 3
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Reviewed by: Maw & June Frains	Date	Z/19/13
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Report Nunmber	OAR-1RE17		
PlantSouth 7	Texas Project Electric Ger	perating Station	
(If applicab)	le)		Refueling outage no <u>IRE17</u>
Current inspection int	erval IWB, IWC,	$\frac{\text{IWD, IWF} - 3^{\text{rd}}}{(1^{\text{st}}, \frac{1}{2^{\text{rd}}}, 3^{\text{rd}}, 2^{\text{rd}}, 3^{\text{rd}}, 3^{\text{rd}$	th , other)
		D. IWF - 1^{st} ; IWE - 1^{st}	
Edition and Addenda	of Section XI applicable	to the inspection plan	(1, 2, 3) 2004 No Addenda
Date and revision of i	nspection plan	October 08, 2012	/ Revision 7
			vities, if different than the inspection plan <u>N/A</u>
I certify that (a) the s		CERTIFICATE OF CONFO	
by the ASME Code, <u>1RE17</u> cor (Refueling outage nu Signed	Section XI; and (c) the re form to the requirements imber)	pair/replacement activities of Section XI. <u>ISI Program Engi</u>	minations and tests meet the Inspection Plan as required and evaluations supporting the completion of neer Date <u>19FEB2013</u>
by the ASME Code, <u>1RE17</u> cor (Refueling outage nu Signed (Owner	Section XI; and (c) the re form to the requirements imber) r or Owner's Designee, Ti CE	pair/replacement activities of Section XI. ISI Program Engi itle) RTIFICATE OF INSERVICE	and evaluations supporting the completion of neer Date <u>19FEB2013</u> INSPECTION
by the ASME Code, <u>1RE17</u> cor (Refueling outage nu Signed (Owner I, the undersigned, hold <u>Texas</u> and e this Owner's Activity I report in accordance wi By signing i replacements activities	Section XI; and (c) the re- nform to the requirements imber) r or Owner's Designee, Ti CE ling a valid commission issue mployed by_ <u>ABS Boiler &</u> Report, and state that, to the ith the requirements of Section this certificate neither the Insy and evaluation described this	pair/replacement activities of Section XI. 	and evaluations supporting the completion of <u>neer</u> Date <u>19FEB2013</u>

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

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)

1RE17 November 2012

NOTES:

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

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 Plar 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

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

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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	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

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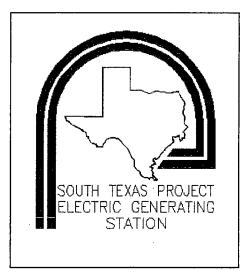
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SUMMARY REPORT for the 1RE17 INSERVICE INSPECTION of UNIT 1 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION



STP NUCLEAR OPERATING COMPANY November 2012

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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:	Date	2/19/13
J. Williams, ISI Program Engineer		
J. Williams, 151 Program Engineer		<u>z/19/1</u> 3
Reviewed by:	Date	2/19/13
	Duto_	
L. Spiess, Supervisor, NDE Inspection Prog	rams	
Reviewed by: Maw a function		2401-
Reviewed by: March and and	Date_	2/19/13
M. Ruvalcaba, Testing/Programs Engineering I	Manage	r

Attachment NOC-AE-13002968 Page 3 of 7

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 tenyear 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.

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Report Nu	mberOAR-1RE17
Plant	South Texas Project Electric Generating Station
Unit No	<u>1</u> Commercial service date <u>August 25, 1988</u> Refueling outage no. <u>1RE17</u> If applicable)
Current ins	pection interval <u>IWB, IWC, IWD, IWF - 3^{rd}; IWE - 2^{nd}</u> (1^{st} , 2^{nd} , 3^{rd} , 4^{th} , other)
Current ins	pection periodIWB, IWC, IWD, IWF - 1 st _; IWE - 1 st (1 st , 2 nd , 3 rd)
	Addenda of Section XI applicable to the inspection plan2004 No Addenda
Date and re	vision of inspection planOctober 08, 2012 / Revision 7
Edition and	Addenda of Section XI applicable to repairs/replacement activities, if different than the inspection plan N/A
	used: <u>N-532-4, N578-1, N-722-1, N-770-1</u>
	· · · ·
ndi	CERTIFICATE OF CONFORMANCE
	at (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required ME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of conform to the requirements of Section XI.
by the AS <u>IRE17</u> (Refueling	ME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of
by the AS <u>1RE17</u>	ME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of conform to the requirements of Section XI. outage number) ISI Program Engineer Date <u>19FEB2013</u>
by the AS <u>1RE17</u> (Refueling Signed I, the under <u>Texa</u> this Owner report in ac replacemen	ME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of

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

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)

1RE17 November 2012

NOTES:

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

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

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

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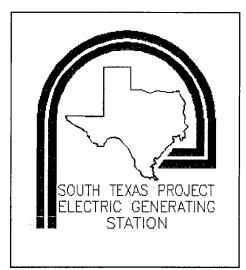
Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Date completed	Repair/Replacement Plan Number
3	Replacement	Valve	Replaced valve soft seat	05/03/2012	1-12-016
3	Replacement	Valve	Replaced Check Valve	05/04/12	1-12-018
3	Replacement	Valve	Replaced hinge pin bushings, 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

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



STP NUCLEAR OPERATING COMPANY November 2012

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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:	Date 2/19/13
J. Williams, ISI Program Engineer	
Reviewed by:	Date_2/19/13
L./Spiess, Supervisor,/NDE Inspection Prog	grams
Reviewed by: Maw Li fund	
Reviewed by: Manuel and	Date 2/19/13
M. Ruvalcaba, Testing/Programs Engineering	,

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<u>SCOPE</u>

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 tenyear 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.

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.

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1	Report NunmberOAR-1RE17
I	PlantSouth Texas Project Electric Generating Station
τ	Unit NoCommercial service date <u>August 25, 1988</u> Refueling outage no <u>1RE17</u> (If applicable)
(Current inspection interval <u>IWB, IWC, IWD, IWF - 3rd</u> ; <u>IWE - 2nd</u> (1 st , 2 nd , 3 rd , 4 th , other)
(Current inspection period IWB, IWC, IWD, IWF – 1^{st} ; IWE – 1^{st} (1^{st} , 2^{ad} , 3^{rd})
	Edition and Addenda of Section XI applicable to the inspection plan2004 No Addenda
I	Date and revision of inspection planOctober 08, 2012 / Revision 7
	Edition and Addenda of Section XI applicable to repairs/replacement activities, if different than the inspection plan <u>N/A</u> Code Cases used: <u>N-532-4, N578-1, N-722-1, N-770-1</u>
	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 <u>IRE17</u> conform to the requirements of Section XI. (Refueling outage number) Signed Owner or Owner's Designee, Title) Date <u>19FEB2013</u>
	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
	<u>Texas</u> and employed by <u>ABS Boiler & Marine Insurance Co.</u> of <u>Houston, Texas</u> 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.

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TABLE 1

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

Examination Category	ltem 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)

1RE17 November 2012

NOTES:

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

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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 Plar Number
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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
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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

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

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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	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

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