



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

July 21, 2004  
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10CFR50.55a

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852

South Texas Project  
Unit 2  
Docket No. STN 50-499  
Inservice Inspection Summary Reports for System Pressure Tests and for  
Repairs and Replacements- 2RE10

Enclosed are four copies of the South Texas Project Unit 2 inservice inspection summary reports for repairs and replacements and for system pressure tests performed prior to and during the tenth refueling outage (2RE10) completed in April 2004. These summary reports satisfy the reporting requirements of Section XI, Article IWA-6230.

There are no commitments contained in this report.

If there are any questions, please contact either Philip Walker at (361) 972-8392 or me at (361) 972-7030.

Michael J. Berg  
Manager,  
Testing/Programs Engineering

PLW

Enclosures: 2RE10 Inservice Inspection Summary Report For System Pressure Tests & Repairs and Replacements

A0417

cc:  
(paper copy)

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**COVER SHEET**

**2RE10 INSERVICE INSPECTION SUMMARY REPORT FOR  
SYSTEM PRESSURE TESTS & REPAIRS AND REPLACEMENTS**

**SOUTH TEXAS PROJECT**

**UNIT 2**

**P.O. BOX 289**

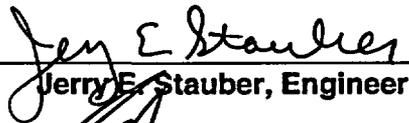
**WADSWORTH, TEXAS 77483**

**USNRC DOCKET NO: 50-499**

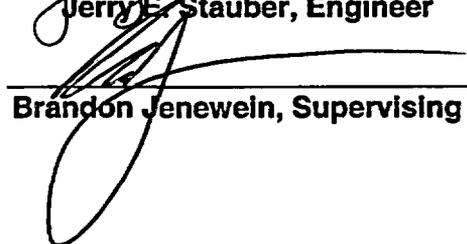
**OPERATING LICENSE NO: NPF-80**

**COMMERCIAL OPERATION DATE: JUNE 19, 1989**

Prepared by: \_\_\_\_\_

  
Jerry E. Stauber, Engineer

Reviewed by: \_\_\_\_\_

  
Brandon Jenewein, Supervising Engineer

## SCOPE

### 2RE10 SYSTEM PRESSURE TESTS

The examinations summarized in this report were performed in accordance with the 1989 Edition with no Addenda of the ASME Code, Section XI, which is applicable to the second South Texas Project Unit 2 ten-year interval. This report covers selected ASME Code Class 1, 2, and 3 Systems/Components. This report is documented in accordance with the requirements of ASME Section XI Code Case N-532-1.

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.

The ASME Code Class 1 components were examined as prescribed by Table IWB-2500-1, Examination Category B-P, which established the examination frequency at each refueling outage.

The ASME Code Class 2 Systems/Components were selected on a prorated basis. This prorated selection process will continue until all ASME Code Class 2 Systems/Components are examined in accordance with Table IWC-2500-1, Examination Category C-H. The examination category for ASME Code Class 2 Systems/Components establishes the examination frequency at each inspection period.

The ASME Code Class 3 Systems/Components were selected on a prorated basis. This prorated selection process will continue until all ASME Code Class 3 Systems/Components are examined in accordance with Table IWD-2500-1, Examination Category D-A, D-B & D-C. The examination category for ASME Code Class 3 Systems/Components establishes the examination frequency at each inspection period.

**SCOPE**

**2RE10 REPAIRS AND REPLACEMENTS**

The inspections and records summarized in this report were performed in accordance with the 1989 Edition with no Addenda of the ASME Code, Section XI, which is applicable to the second South Texas Project Unit 2 ten-year interval. This report is documented in accordance with the requirements of ASME Section XI Code Case N-532-1.

This report covers ASME Code Class 1, 2, and 3 pressure-retaining components and their supports where repair or replacement was performed between the end of the ninth refueling outage and the end of the tenth refueling outage just completed.

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number \_\_\_\_\_

Owner STP Nuclear Operating Company, P. O. Box 289, Wadsworth, TX 77483  
(Name and Address of Owner)

Plant South Texas Project Electric Generating Station P.O. Box 289, Wadsworth, TX 77483  
(Name and Address of Plant)

Unit No. 2 Commercial service date June 19, 1989 Refueling outage no. 2RE10  
(If applicable)

Current inspection interval 2<sup>nd</sup>  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, other)

Current inspection period 2<sup>nd</sup>  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>)

Edition and Addenda of Section XI applicable to the inspection plan 1989 Edition Addenda - None

Date and revision of inspection plan Inservice Inspection Plan for Examination of Welds and Component Supports, System Pressure Testing Program, and Repair and Replacement Program for the Second Inspection Interval at STP, Revision 1, January 20, 2004

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

CERTIFICATE OF CONFORMANCE

I certify that the statements made in this Owner's Activity Report are correct, and that the examinations, tests, repairs, replacements, evaluations, and corrective measures represented by this report conform to the requirements of Section XI.

Certificate of Authorization No. N/A Expiration Date N/A  
(if applicable)

Signed J. Stauber J. Stauber ENGINEER Date 7/21/04  
(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 Group Inc of Houston, Texas have inspected the items described in this Owner's Activity Report, during the period 2, 10-19-03 to 10-18-04 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 examinations, tests, repairs, replacements, evaluations, and corrective measures 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.

Robert Niemann Commissions TX 756  
Inspector's Signature National Board, State, Province, and Endorsements  
Robert Niemann  
Date 7/21/2004

TABLE 1  
ABSTRACT OF EXAMINATIONS AND TESTS  
2RE10

Examination Category	Total Examinations Required for the Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date For The Interval	Remarks
B-P	7	1	33%	43%	Class 1. See Notes 1 & 2
C-H	33	3	27%	42%	Class 2. See Notes 3 & 4
D-A, D-B, D-C	21	0	0%	33%	Class 3. See Notes 5 & 6
TOTAL:	61	4			

NOTES:

1. Class 1 Total Examinations required for Period = 3
2. Class 1 Total Examinations to date for the interval = 3
3. Class 2 Total Examinations required for Period = 11
4. Class 2 Total Examinations to date for the interval = 14
5. Class 3 Total Examinations required for Period = 7
6. Class 3 Total Examinations to date for the interval = 7

TABLE 2

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

2RE10

Examination Category	Item Number	Item Description	Flaw Characterization (IWA-3300)	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
See Note 1				

NOTE:

1. No items found with flaws or relevant conditions that required evaluation for continued service.

TABLE 3

ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES  
REQUIRED FOR CONTINUED SERVICE  
2RE10

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date completed	Repair/Replacement Plan Number
1	Repair	Steam Generator Manway Cover	Drill and tap holes	No	6/14/04	2-2-092
1	Replacement	CET nozzle	Replaced seal housing, hold down nut & compression collar	No	3/6/03	2-3-009
1	Replacement	CET nozzle	Replaced seal housing, hold down nut & compression collar	No	3/6/03	2-3-011
1	Replacement	CET nozzle	Replaced seal housing, hold down nut & compression collar	No	3/6/03	2-3-012
1	Replacement	CET nozzle	Replaced seal housing, hold down nut & compression collar	No	3/6/03	2-3-013
1	Replacement	CRDM	Replaced seismic sleeve	No	3/4/03	2-3-014
1	Repair	Valve	Removed and replaced body to bonnet seal weld	No	3/10/03	2-3-015
1	Replacement	Pressurizer Spray Valve	Replaced ball	No	4/25/04	2-3-043
1	Replacement	Reactor Coolant Pump	Replaced Cartridge Seal Housing	No	4/25/04	2-3-046
1	Replacement	Pressurizer Safety Valve	Replaced valve & outlet flange studs	No	4/25/04	2-3-047
1	Replacement	Pressurizer Safety Valve	Replaced valve	No	4/25/04	2-3-048
1	Replacement	Pressurizer Safety Valve	Replaced valve & outlet flange studs	No	4/25/04	2-3-049
1	Replacement	Pressurizer Spray Valve	Replaced ball	No	4/25/04	2-3-050

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date completed	Repair/Replacement Plan Number
1	Replacement	Valve	Replaced disc, bonnet & yoke	No	4/25/04	2-4-019
1	Repair	Reactor Head Lift rig	Ground out weld indication on lifting lug	No	4/4/04	2-4-021
1	Replacement	Reactor coolant pump	Replaced cartridge seal assembly	No	4/25/04	2-4-023
1	Replacement	Reactor coolant pump	Replaced seal housing bolts	No	4/21/04	2-4-024
1	Replacement	Steam Generator	Replaced Manway stud	No	4/20/04	2-4-030
1	Replacement	Steam Generator	Replaced Manway stud	No	4/20/04	2-4-031
1	Replacement	Steam Generator	Replaced Manway nut	No	4/20/04	2-4-032
2	Replacement	Safety Relief Valve	Replaced valve disc	No	4/25/04	2-0-006
2	Replacement	Valve	Replaced poppet, pilot poppet, cover studs, cover nuts	No	1/21/03	2-2-142
2	Replacement	Valve	Replaced pilot poppet	No	3/12/03	2-3-003
2	Replacement	Valve	Replaced poppet, pilot poppet, cover studs	No	4/25/04	2-3-039
2	Repair	Valve	Replaced valve, pipe & elbow	No	4/25/04	2-3-041
2	Replacement	Valve	Replaced Plug	No	4/24/04	2-4-004
2	Repair	Valve	Replaced disc & removed and rewelded seal weld	No	4/25/04	2-4-006
2	Replacement	Valve	Replaced plug	No	4/28/04	2-4-016
2	Replacement	Snubber	Replaced snubber	No	4/17/04	2-4-022
2	Replacement	Valve	Replaced plug	No	4/25/04	2-4-027
2	Replacement	Valve	Replaced plug	No	4/25/04	2-4-028
2	Replacement	Valve	Replaced plug	No	4/23/04	2-4-029
2	Replacement	Safety Relief Valve	Replaced valve disc	No	4/25/04	2-97-056
2	Replacement	Safety Relief Valve	Replaced valve disc	No	4/25/04	2-97-063
2	Replacement	Safety Relief Valve	Replaced valve disc	No	4/25/04	2-97-064
3	Replacement	Valve	Replaced valve plug	No	6/6/03	2-2-103
3	Replacement	Piping connection	Replaced flange studs & nuts	No	8/20/03	2-3-002

Code Class	Repair, Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date completed	Repair/Replacement Plan Number
3	Replacement	Pipe Support	Removed and reinstalled pipe support	No	6/18/03	2-3-005
3	Replacement	Valve	Replaced ball	No	4/12/03	2-3-006
3	Replacement	Valve	Replaced ball	No	4/12/03	2-3-007
3	Replacement	Valve	Replaced ball	No	2/16/03	2-3-008
3	Repair	Piping connection	Replaced flange & U-strap	No	2/28/03	2-3-010
3	Repair	Valve	Grind off tack weld between disc and disc skirt & reweld	No	11/16/03	2-3-021
3	Replacement	Pressurizer Relief valve	Replaced valve	No	7/24/03	2-3-022
3	Replacement	Pressurizer Relief valve	Replaced valve	No	9/11/03	2-3-037
3	Replacement	Pressurizer Relief valve	Replaced valve	No	10/16/03	2-3-038
3	Repair	Piping	Replaced flange, studs & nuts	No	12/18/03	2-3-053
3	Repair	Piping & pipe support	Removed and rewelded pipe and replaced pipe support	No	4/12/04	2-3-060
3	Repair	Piping	Replace dented piping and fittings	No	4/4/04	2-4-002
3	Replacement	Piping & pipe support	Replaced piping, pipe support and flange studs & nuts	No	3/26/04	2-4-003
3	Replacement	Intercooler	Replaced flange studs & nuts	No	1/28/04	2-4-005
3	Repair	RCP Motor air cooler	Machined indications on flange face	No	2/23/04	2-4-008
3	Replacement	RCP Motor air cooler	Replaced motor air coolers	No	4/22/04	2-4-009
3	Replacement	Standby Diesel Generator	Replaced bolts & nuts	No	4/13/04	2-4-011
3	Replacement	Piping	Replace flange studs & nuts	No	3/26/04	2-4-017
3	Replacement	Piping	Replace flange studs & nuts	No	4/20/04	2-4-018
3	Replacement	Turbine Driven Aux. Feedwater pump	Replaced snubber	No	4/16/04	2-4-020
3	Repair	Valve	Machine valve disc plates	No	4/11/04	2-4-026
3	Replacement	Relief Valve	Replaced valve	No	4/17/04	2-4-034