

2RE05 INSERVICE INSPECTION SUMMARY REPORT FOR WELDS AND COMPONENT SUPPORTS

of the

SOUTH TEXAS PROJECT

ELECTRIC GENERATING STATION - UNIT 2

P.O. Box 289

Wadsworth, Texas 77483

Owner: Houston Lighting and Power Company City Public Service Board of San Antonio Central Power and Light Company City of Austin

Address:

P.O. Box 1700 Houston, Texas 77001

Commercial Operation:

JUNE 19, 1989

Issue Date: MAY 1997

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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION

UNIT NO. 2

USNRC DOCKET NO.: 50-499

OPERATING LICENSE NO.: NPF-80

COMMERCIAL OPERATION DATE: June 19, 1989

5-19-97 Prepared by Date Beverly ISI Engineer - Welds & Component Supports

Reviewed by

A. Murry Supervisor - Section XI Section

5/19/97 Date



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2RE05 SUMMARY REPORT

1.1 Introduction

This Summary Report describes Houston Lighting & Power Company's (HL&P) inservice inspection (ISI) of selected Class I, 2, and 3 components of the South Texas Project Electric Generating Station, Unit 2 (STPEGS-2) performed prior to and during the fifth refueling outage (2RE05) of STPEGS-2 during the time period between October 4, 1996 and February 18, 1997. The STPEGS ISI program for welds and component supports is scheduled in accordance with Program B of the American Society of Mechanical Engineers (ASME) Section XI Code "Inservice Inspection of Nuclear Power Plant Components". The first ten year inspection interval of STPEGS-2 began June 19, 1989. Because STPEGS-2 was out of service continuously for 16 months, the inspection interval was extended for an equivalent period in accordance with IWA-2400(c) of ASME Section XI. This extended the inspection interval to October 18, 2000. The second inspection period began June 19, 1992 and extends to October 18, 1997. The ISI summarized herein constitutes the fifth ISI performed during the first ten year inspection interval and the third ISI of the second inspection period of STPEGS-2. Figure 1 of this Section depicts the first ten year interval and Periods 1 through 3 for STPEGS-2. The percentages completion of examinations performed through 2RE05 for STPEGS-2 welds and component supports are also summarized in Figure 1.

The STPEGS-2 ISI program for the first inspection interval is described in the Ten Year ISI Plan previously filed with the Nuclear Regulatory Commission (NRC) and the State of Texas. The STPEGS-2 ISI program was developed and is being implemented in accordance with I0CFR50.55a, the 1983 Edition of Section XI Code with the Summer 1983 Addenda, and other regulatory and Code bases as specified in the Ten Year ISI Plan. This Summary Report satisfies the reporting requirements of IWA-6000 of the Section XI Code for welds and component supports.

1.2 Scope of Summary Report

This Summary Report describes the ISI examinations performed up through 2RE05 on welds (Section 2) and component supports (Section 3). Each of these sections describes the scope of examinations performed; describes the personnel, procedures, and equipment utilized for the examinations; provides a summary of the examinations, examination results, and corrective actions; and includes copies of the examination certification (NIS-I) forms. The ISI examinations performed on Class 1 and 2 welds and other examination areas (e.g., bolting) are described in Section 2 of this Summary Report. These examinations were performed in accordance with Subsections IWB and IWC of Section XI and other bases as specified in the Ten Year ISI Plan. The ISI examinations performed on Class 1, 2, and 3 component supports and Class 3 integral attachments are described in Section 3. These examinations were performed in accordance with Subsection IWF (Class 1, 2, and 3 supports) and Subsection IWD (Class 3 integral attachments) of Section XI and other Ten Year ISI Plan.





ISI WELDS AND COMPONENT SUPPORTS PROGRAMS FIRST 10-YEAR INSPECTION INTERVAL CALENDAR UNIT 2

Year		19 89	1 1	9 90	T	19 91		19 9	12	1	19 93		19	94		19	95	T	19 1	96	T	19 9	17	T	19	98		1	9 99	1	1	00 00	
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CO - Commercial Operation

EOI - End of Interval

XO - Extended outage from February 3, 1993 to May 30, 1994

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Note: Some percentage completion data, for outages prior to 2REM, have been corrected to document only those examinations performed for Section XI credit.

ERIOD	ţ	Minimun	16	%
ERIOD	1	Maximum	34	%

PERIOD 1	9%
SUMMARY	Comp.
Velds Program	29 %
omp. Spts Program	25 %

PERIOD 2 Minimun 50 %

PERIOD	2 Maximum	01%		and the second	in the second second
	Refueling Outage	3	4	5	Cum
PER	IOD 2	%	%	%	%
(In P	rogress)	Comp.	Comp.	Comp.	Comp.
Welds I	rogram	12 %	13 %	11 %	65 %
Suppor	ts Program	13 %	13 %	13 %	64 %

2.0 WELD EXAMINATIONS

2.1 Introduction

ISI of STPEGS-2 Class 1 and 2 welds and components within the Welds Examination Program was performed between October 4, 1996 and February 18, 1997. These examinations constitute the fifth ISI (the third ISI of the second period) of the first inspection interval for the Welds Examination Program for STPEGS-2.

This section of the Summary Report documents the examinations performed by HL&P Quality Control (QC) and contractor nondestructive examination (NDE) personnel in accordance with the following documents:

- "First 10-Year Long-Term Inservice Examination Plan for the South Texas Project Electric Generating Station, Unit 2" (LTP),
- (2) "Examination Plan for the 1997 2RE05 Inservice Inspection of Welds and Component Supports at the South Texas Project Electric Generating Station, Unit 2", including changes made during the outage (Outage Plan).

The Long-Term Plan (LTP) provides a detailed description of the rules for exemption, selection, allocation, and scheduling of Class 1 and 2 welds and examination areas for ISI. The 1997-2RE05 Examination Plan is an individual Outage Plan for implementing ISI weld examinations as scheduled in the LTP. The Outage Plan references the applicable NDE procedures used for the examinations.

2.2 Scope of Examinations

NDE was performed on a total of one hundred forty two (142) selected Class 1 and Class 2 components and examination areas as contained in the Outage Plan. Any deviations or changes were documented as Examination Plan Changes to the Outage Plan. Selection of these components and examination areas was based on the LTP allocation and scheduling requirements for the fifth refueling outage. Two (2) small bore piping welds in the SI system were baseline examined after an adjacent valve was replaced during a maintenance train outage in October, 1996. These examinations are summarized in this report.

Class 1

A total of fifty five (55) examinations were performed on the following Class 1 components and examination areas. Forty one (41) of these components/areas were examined for Section XI credit. Additionally, baseline examinations were performed on seven (7) components, sample expansion examinations were performed on three (3) components, and RG 1.26 examinations were performed on four (4) RCP flywheels.

Vessels

Reactor Vessel Pressurizer Steam Generator

Piping

Reactor Coolant System Chemical and Volume Control System Residual Heat Removal System Safety Injection System

Pumps

Reactor Coolant Pump Flywheels

Valves

Reactor Coolant System

Class 2



A total of eighty seven (87) examinations were performed on the following Class 2 component welds and examination areas. Twenty seven (27) of these component welds / areas were examined for ASME Section XI credit. Thirteen (13) of the examinations were performed on Class 2 piping longitudinal welds, located adjacent to selected circumferential welds. Additionally, forty five (45) of these welds were examined under the Augmented ISI-BEZ program and two (2) welds were baseline examined after a valve was replaced.

Vessels

RHR Heat Exchanger 2A

Piping

Auxiliary Feedwater System Main Steam System Safety Injection System

A complete list of the components and examination areas is contained in Appendix 2-A. Class 1 and Class 2 weld identification figures for the above components and examination areas are contained in the LTP. These examinations constitute the following percentages of completion for Class 1 and Class 2 components during the first inspection interval:

		Cumulative
	2RE05	(1st Interval)
Class 1 (IWB)	10%	67%
Class 2 (IWC)	13%	62%

2.3 Personnel, Procedures, and Equipment

2.3.1 Personnel Qualifications

Component welds and other examination areas were nondestructively examined by HL&P QC and contractor NDE personnel. HL&P NDE personnel were certified in accordance with ASME Section XI (IWA-2300) and HL&P Nondestructive Examination Procedure 0PQP05-ZA-0001 (Rev. 1), "Qualification and Certification of Nondestructive Examination Personnel". Contractor NDE personnel were certified in accordance with ASME Section XI (IWA-2300) and their employer's written practice, which was approved by HL&P. In addition, Level II examiners performing ultrasonic examinations on austenitic piping welds have been qualified by Electric Power Research Institute in detection of intergranular stress corrosion cracking. A list of all personnel who performed examinations during 2RE05 and their NDE certification level for each applicable examination technique is contained in Appendix 2-B.

2.3.2 Examination Procedures

NDE activities were performed using visual (VT), liquid penetrant (PT), magnetic particle (MT), and ultrasonic (UT) techniques in accordance with HL&P QC NDE procedures. The NDE procedures were written to conform to the requirements of the applicable sections of the ASME Code. A list of applicable NDE procedures is provided in Appendix 2-C.

2.3.3 Equipment

Various equipment was used during the ISI to perform the examinations of the selected component welds and examination areas. Major equipment consisted of the following:

Krautkramer Branson ultrasonic instruments Ultrasonic transducers AC electromagnetic yokes MT calibration block Pyrometers/Thermometers

2.3.4 Materials

NDE materials utilized during 2RE05 weld examinations included penetrant and magnetic particle materials, and ultrasonic couplant. All materials contacting an austenitic examination surface were tested and certified to be within acceptable sulfur and halogen limits specified in the STPEGS Expendable Material Control Program.

2.3.5 Calibration Blocks

Pipe and vessel calibration blocks were utilized to calibrate the UT instruments prior to examination of the selected welds. Applicable calibration blocks are noted in the Examination Summary Tables (Appendix 2-A). Drawings for calibration blocks are included in the LTP.



2.4 Summary of Examinations

2.4.1 Examination Methods

The following examination methods were conducted in accordance with HL&P QC NDE procedures:

VT Examinations

VT-1 examinations were performed on manway bolting, flange bolting, and valve bolting. VT-3 examinations were performed on RPV interior and valve internal surfaces.

PT Examinations

PT examinations were performed on Pressurizer nozzle welds, piping welds, and integrally welded attachments.

MT Examinations

MT examinations were performed on piping welds and piping lugs.

UT Examinations

UT examinations were performed on Class 1 and 2 components, including vessel and piping welds and RCP flywheels. Various techniques were used to perform the UT examinations, depending on classification, material type, and weld thickness.

2.4.2 Augmented Examinations

In addition to the ISI requirements of Section XI for Class 1 piping and ASME Code Case N-408 for Class 2 piping, the following augmented ISI program was implemented during this outage:

Augmented ISI - Break Exclusion Zone

These augmented programs are described in the LTP and the affected examination areas are noted in the "Remarks" column of the Examination Summary Tables.

2.4.3 Data Comparison

In accordance with IWB-3121 of Section XI, the examination results were compared with the recorded NDE results of the Preservice Inspection (PSI). There were no prior inservice examinations on the areas examined during this outage.

If flaws were recorded in the selected component weld or examination area during previous examinations and dispositioned as acceptable, these flaws were verified during this ISI. All such flaws were observed and verified during this ISI.

2.4.4 Additional and Successive Examinations

If examinations reveal indications that exceed allowable indication standards, additional examinations are required as prescribed in IWB-2430 and IWC-2430. Additional examinations were required during 2RE05 due to the detection of boric acid residues on a Class 1, CV system bolted piping flange connection (see Summary No. 155405 in Appendix 2A). Three (3) additional CV system bolted piping flange connections were examined. One (1) of these additional examinations revealed evidence of boric acid residue. None of the examinations revealed evidence of boric acid residue. None of the examinations revealed evidence of boric acid residue. No additional examinations revealed evidence of boric acid residue. No additional examinations of Class 2 components (IWC-2430) were required during this outage.

Successive examinations are required if flaw indications are evaluated in accordance with IWB-3122.4 and the component qualifies as acceptable for continued service. No successive examinations (IWB-2420 or IWC-2420) will be scheduled as a result of examinations performed during this outage.

2.5 Examination Results and Corrective Actions

Examination area coverage was provided, to the extent practical, in accordance with the requirements of ASME Section XI and Code Case N-408. In those cases where physical conditions of the component restricted examination of the required area, the amount of coverage achieved was assessed. Examination limitations of applicable Section XI examinations are documented in the Remarks column of Appendix 2-A. Additionally, Appendix 2-D, ISI Examination Limitations, contains a detailed account of examination limitations (UT, PT, and MT) encountered during 2RE05 weld examinations for limitations that were 10% or greater.

A visual examination (VT-1) of a small bore bolted pipe flange in the Class 1, CV system (see Summary No. 155405) revealed boric acid residue. The ISI sample was expanded to three (3) additional bolted pipe flanges in the CV system. Boric acid residue was found on one (1) of the expansion locations. No bolting degradation was detected on any of the flange bolts. The leakage was not active and no repair or rework was required. No further sample expansion was required.

A liquid penetrant examination of a 16 inch branch connection weld in the Class 1, Main Loop piping (see Summary No. 101150) verified that a small linear surface indication in the weld metal had not grown since it was documented during the PSI examinations. The linear indication remains acceptable in accordance with IWB-3514 acceptance standards.

A UT examination of a 4 inch pipe to valve weld in the Class 1, CV system (see Summary No. 150240) verified a Code-allowable planar reflector in the weld volume near the OD surface has not grown. This indication was documented during PSI examinations and continues to remain acceptable.

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All UT indications determined to be recordable, regardless of signal amplitude, were investigated to determine the nature of the reflector. Indications determined to be other than geometry were evaluated to ASME Section XI criteria.

2.6 Certification of Inspections

ASME Section XI NIS-1 forms, "Owner's Report for Inservice Inspections", have been prepared to certify the STPEGS-2 weld ISI examinations described in this section of the Summary Report. The STPEGS-2 weld ISI examinations have been certified by our ANII, Arkwright Mutual Insurance Company, on the NIS-1 forms included in Appendix 2-E.



APPENDIX 2-A

SUMMARY OF EXAMINATIONS

EXAMINATION RESULTS LEGEND

- A Augmented ISI Examination
- B Baseline Examination
- C Examination for Section XI Scheduling Credit
- E Expanded Examination
- L Piping Longitudinal Weld Examination
- W RCP Flywheel Examination

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 1 CLABWE STATUS COMPONENTS

REACTOR PRESSURE VESSEL

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		ASME			0	G	т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
******	*************************			*****	k.			
	additions to the basis of the second second	a lange						

VESSEL INTERIOR (FIG NO A-RPV-1, 2)

006200 VESSEL INTERIOR

B13.10

B-N-1 RVT3 ZA-0024 R1

C - - USING A REMOTE VIDEO CAMERA, EXAMINED THE SPACE ABOVE AND BELOW THE REACTOR CORE THAT IS MADE ACCESSIBLE POR EXAMINATION BY REMOVAL OF COMPONENTS.

PAGE :

1







SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 1 CLABWE STATUS COMPONENTS

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NOZZLE	B5.40	UT	UTI-001 R3	С	-		
		UT	UTI-005 R3	С			
							CSCL-71/SS-72
-N2-SE	B-F	PT	ZA-0012 R2	C	100	*	
NOZZLE	B5.40	UT	UTI-001 R3	C		۰.	
		UT	UT1-005 R3	C		۰.	
							CSCL-(9/SS-70
	-P92-11						
	NGZZLE NGZZLE RAL ATTACHMENTS (FIG NO A	NOZZLE B5.40	NOZZLE D-F FI NOZZLE B5.40 UT UT	NOZZLE B5.40 UT UTI-001 R3 UT UTI-005 R3	NOZZLE B5.40 UT UTI-001 R3 C UT UTI-005 R3 C	NOZZLE B5.40 UT UTI-001 R3 C - UT UTI-005 R3 C - UT UTI-005 R3 C -	NOZZLE B5.40 UT UTI-001 R3 C UT UTI-005 R3 C

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DATE: REVISI	05/19/97 ON: 0	SOUTH TEXA INSI FIRST IN	AS PROJECT ERVICE INSP TTERVAL, SE CLASS 1 C	ELECTRIC GENERAT PECTION PLAN - 2R COND PERIOD, THI LABWE STATUS COM	ING ST E05 (W RD OUT PONENT	ATI ELD AGE	ON 1 S) (91	JNIT 2 (RF)	PAGE :	3
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		ASME			0	G	Т			
		SEC. XI			R	Е	H			
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	с 	M	R	**CALIBRATION BLOCK**		-
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017200	SG-2C-IN	B-D	UT	UTI-004 R3	с					
	INLET NOZZLE TO CHANNEL HEAD CAP	B3.130	UT	UTI-017 R2	C	*				
								CSCL-89		
017300	SG-2C-ON	B-D	UT	UTI-004 R3	с					
	CHANNEL HEAD CAF TO OUTLET NOZZLE	B3.130	JT	UTI-017 R2	с		•			
								CSCL-89		
	NOZZLE INSIDE RADIUS SECTION	(FIG NO A-	<u>SG-1)</u>							
017400	SG-2C-IN-IR	B-D	UT	UTI-016 R1	с					
	INLET NOZZLE INSIDE RADIUS SECTION	B3.140								
								CSCL-41		
017500	SG-2C-ON-IR	B-D	UT	UTI-016 R1	С					
	OUTLET NOZZLE INSIDE RADIUS SECTION	B3.140								



SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD. THIRD OUTAGE (97RF) CLASS 1 CLABWE STATUS COMPONENTS

STEAM GENERATOR 2D (PRIMARY SIDE)

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			ASME			0	G	Т	
			SEC. XI			R	Е	н	
s	UMMARY	EXAMINATION AFEA	CATGY	EXAM		Е	0	Е	REMARKS
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		MANWAY BOLTING (FIG NO A-SG-2)							

018900 SG-2D-OMB OUTLET MANWAY BOLTING

B7.30

B-G-2 VT-1 ZA-0024 R1 B - - PERFORMED BASELINE VISUAL EXAMINATION ON REPLACEMENT BOLT NO. 9 ONLY, PRIOR TO INSTALLATION.

PAGE :

- 4

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CHARGE LIBRATIFICATION ITEM NO NETHOD PROCEDURE C N ***CALIBRATION BLOCK** 31_RC_2202_HES LOOP 2 (FIG NO A-RC-2) 00760 9 B-3 PT 2A-0012 R2 C - ***CES-80** 31_RC_2302_HES LOOP 3 (FIG NO A-RC-2) ***CES-80** ***CES-80** ***CES-80** 00360 1 B-F PT ZA-0012 R2 C - ***CES-80** 00410 1 B-F PT ZA-0012 R2 C - ***CES-78/55-79/CES-80** 00410 6 S-J PT ZA-0012 R2 C - ***CES-80** 00440 9 BRANCH CONNECTION B9.32 PT ZA-0012 R2 C - ***CES-80** 00580 5 BRANCH CONNECTION B9.32 PT ZA-0012 R2 C - ***CES-80** 00580 5 BRANCH CONNECTION B9.32 PT ZA-0012 R2 C - - 00580 5 BRANCH C	SUMMARY	EXAMINATION AREA	CATGY	EXAM	1.0	E	0	E	REMARKS
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00760 9 9-3 PT ZA-0012 R2 C - - 00360 3 1-8C-2302-NNS - LOOP 3 (FUG NO A-RC-3) 00360 30 0011ET NOZZLE TO ELBON 8-7 9 T ZA-0012 R2 C - - 00360 30 0011ET NOZZLE TO ELBON 8-7 9 T ZA-0012 R2 C - - 00410 30 0011ET NOZZLE TO ELBON 8-3 PT ZA-0012 R2 C - - - 00410 - 8-3.30 PT ZA-0012 R2 C - <t< td=""><td></td><td>31-RC-2202-NSS - LOOP 2 (PIG 8</td><td>0 A-RC-2)</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		31-RC-2202-NSS - LOOP 2 (PIG 8	0 A-RC-2)						
BLBON TO REACTOR COOLANT FUMP B9.11 UT UTI-010 B1 - C - 00360 1 0.1-KC-2302-MSE - LOOP J (FUO NO A-EC-3) EA-0012 B2 C - - 00360 1 0.0TLET NOZZLE TO ELBON B-F PT ZA-0012 B2 C - - 00410 6	00260	9	B-J	PT	ZA-0012 R2	c	4	2	
		ELBOW TO REACTOR COOLANT PUMP	B9.11	UT	UTI-018 R1		С	×	
31-RC-2102-NSE - LOOP J. (FIG NO A-RC-1) 00140 1 0.07LIST NOZZLE TO ELBOW $B \cdot F_{3}$ PT ZA-0012 R2 C 0 - - 00140 6 3.0 DT DT ZA-0012 R2 C 0 - - 00140 6 3.1N. BRANCH CONNECTION B-J PT ZA-0012 R2 C 0 - - 00140 9 9 B-J PT ZA-0012 R2 C 0 - - 00140 9 P B-J PT ZA-0012 R2 C 0 - - - 00140 9 P B-J PT ZA-0012 R2 C - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>**CSS-80**</td></td<>									**CSS-80**
91-RC-2102-NSE - LOOP J (FIG NO A-RC-3) 0010 10 011 NOZLE TO ELBOW 10 <									
00340 1 S0 0UTLET NOZZLE TO ELBOW B-F PT ZA-0012 R2 C - - 00410 6 3-IN. BRANCH CONNECTION B-J PT ZA-0012 R2 C - - 00440 9 ELBOH TO REACTOR COOLANT FUMP B-J PT ZA-0012 R2 C - - 00420 9 ELBOH TO REACTOR COOLANT FUMP B-J PT ZA-0012 R2 C - - 00540 9 ELBOH TO REACTOR COOLANT FUMP B-J PT ZA-0012 R2 C - - 00580 5 -100P 4 IFIG NO A-RC-41 - <		31-RC-2302-NSS - LOOP 3 (FIG M	NO A-RC-3)						
SG OUTLET NOZZLE TO ELBOW B5.130 UT UT UT UT UT C - - 00410 6 3-IN. BRANCH CONNECTION B9.32 PT ZA-0012 R2 C - - 00440 9	00360	1	B-F	PT	ZA-0012 R2	C			
UT UT 0T UT 05 R3 C - - 00410 6 3-1N. BRANCH CONNECTION B-J PT ZA-0012 R2 C - - 00440 9 ELBON TO REACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 00440 9 ELBON TO REACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 00540 5 SALACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 00550 5 SALACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 00550 5 SALACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 00520 9 ELBON TO REACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 00520 9 ELBON TO REACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 01400 5 KLBON TO SO INLET NOZZLE B-F PT ZA-0012 R2 C		SG CUTLET NOZZLE TO ELBOW	B5.130	UT	UTI-018 R1	c		\sim	
CS-78/SS-79/CSS-80 00410 6 . D0440 9 . ELBOW TO REACTOR COOLANT PUMP 99.11 UT 2A-0012 R2 C C C CSS-80**				UT	UTI-005 R3	С		+	
00410 6 3-1N. BRANCH CONNECTION B-J PT ZA-0012 R2 C - 00440 9 BOM TO REACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 00440 9 BOM TO REACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 00560 5 S-IN. BRANCH CONNECTION B-J PT ZA-0012 R2 C - - 00580 5 S-IN. BRANCH CONNECTION B-J PT ZA-0012 R2 C - - 00580 5 S-IN. BRANCH CONNECTION B-J PT ZA-0012 R2 C - - 00580 9 BEADON TO REACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 00580 9 BEADON TO REACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 01400 5 BLBON TO REACTOR COOLANT PUMP B-J PT ZA-0012 R2 C - - 01400 5 BLBON TO SO INLET NOZZLE B-F PT <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>**CS-78/SS-79/CSS-80**</td></td<>									**CS-78/SS-79/CSS-80**
00410 6 B-J PT ZA-0012 R2 C - 3-IN. BRANCH CONNECTION B9.32 00440 9 B-J PT ZA-0012 R2 C - 00580 5 B-J PT ZA-0012 R2 C - 00580 5 B-J PT ZA-0012 R2 C - 00540 9 B-J PT ZA-0012 R2 C - 29-RC-2301-NSE - LOOP 3 (FIG NO. A-RC-3) **CSS-80** 01040 5 B-F PT ZA-0012 R2 C - 8LBOW TO RO INLET NOZZLE B-S 10'T UT1-016 R1 C						5			
00440 9 B-J PT ZA-0012 R2 C - 00440 9 B-J PT ZA-0012 R2 C - 01440 9 B-J DT UTI-018 R1 - C - 01440 9 B-J DT UTI-018 R1 - C - 01440 9 B-J PT ZA-0012 R2 C - - 01560 5 B-J PT ZA-0012 R2 C - - 00520 9 B-J PT ZA-0012 R2 C - - 00520 9 B-J PT ZA-0012 R2 C - - 00520 9 B-J PT ZA-0012 R2 C - - v=CSS-80** **CSS-80** 29-RC-2301-NSS - LOOP 3 (FIG NO A-RC-3) ***CSS-80** 0140 5 B-F PT ZA-0012 R2 C - ELBOW TO SG	00410	6 DEALON CONSECTION	8-J	PT	ZA-0012 R2	C	1	1	
00440 9 B-J PT ZA-0012 R2 C ELBOW TO REACTOR COOLANT PUMP B9.11 UT UTI-018 R1 - C - C - **CSS-80** 00580 5 B-J PT ZA-0012 R2 C 3-IN. BRANCH CONNECTION B9.32 PT ZA-0012 R2 C ELBOW TO REACTOR COOLANT PUMP B9.11 UT UTI-018 R1 - C 29 FC-2301-NES - LOOP 3 (FIG NO A-RC-B) 01040 5 B-F PT ZA-0012 R2 C ELBOW TO SG INLET NOZZLE B-F PT ZA-0012 R2 C UT UTI-018 R1 C UT UTI-018 R1 C		3'IN. DRAFT COMBELLON	07.56						
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CSS-80 <u>31-RC-2402-NSS - LOOP 4 (FIG NO A-RC-4)</u> 00580 5 3-IN. BRANCH CONNECTION B-J PT CA-0012 R2 C	UUARU	ELBOW TO REACTOR COOLANT PUMP	89.11	UT	UTT-018 R1		C	÷.	
CSS-80 31-RC-2402-NSE - LOOP 4 (FIG NO A-RC-4) 00580 5 3-IN. BRANCH CONNECTION B-J PT ZA-0012 R2 C 1 00620 9 ELBOW TO REACTOR COOLANT FUMP B-J 1 UT UTI-018 R1 C - C 1 1 1 1 1 1 1 1 1 1 1 1 1				· · · ·					
$\frac{31-RC-2402-NSS - LOOP 4 (FIG NO A-RC-4)}{S - 3-IN BRANCH CONNECTION B9.32} PT ZA-0012 R2 C C - C - C - C - C - C - C - C - $									**CSS-80**
00580 5 3-IN. BRANCH CONNECTION B9.32 PT ZA-0012 R2 C 60620 9 ELBOW TO REACTOR COOLANT PUMP B9.11 UT UTI-018 R1 - C - 29-RC-2301-NSS - LOOP 3 (FIG NO A-RC-3) C 29-RC-2301-NSS - LOOP 3 (FIG NO A-RC-3) 01040 5 ELBOW TO SG INLET NOZZLE B-F PT ZA-0012 R2 C ELBOW TO SG INLET NOZZLE B5.130 UT UTI-018 R1 C UT UTI-004 R3 C UT UTI-005 R3 C		31-RC-2402-NSS - LOOP 4 (FIG B	0 A-RC-4)						
00580 5 B-J PT ZA-0012 R2 C 3-IN. BRANCH CONNECTION B9.32 00620 9 B-J PT ZA-0012 R2 C ELBOW TO REACTOR COOLANT PUMP B9.11 UT UTI-018 R1 - C - **CSS-80** 29-RC-2301-NSS - LOOP 3 (FIG NO A-RC-3) 01040 5 B-F PT ZA-0012 R2 C ELBOW TO SG INLET NOZZLE B5.130 UT UTI-018 R1 C UT UTI-004 R3 C - -		aller for an involution of spatial and the standard because and the for the first search and the place base to							
00620 9 B-J PT ZA-0012 R2 C ELBOW TO REACTOR COOLANT PUMP B9.11 UT UTI-018 R1 - C - **CSS-B0** 29-RC-2301-NSS - LOOP 3 (FIG NO A-RC-3) 01040 5 B-F PT ZA-0012 R2 C ELBOW TO SG INLET NOZZLE B5.130 UT UTI-018 R1 C UT UTI-004 R3 C UT UTI-005 R3 C	00580	5 3-IN. BRANCH CONNECTION	в-J В9.32	PT	ZA-0012 K2	¢			
00520 9 B-J PT ZA-0012 R2 C ELBOW TO REACTOR COOLANT PUMP B9.11 UT UTI-018 R1 - C - 29-RC-2301-NSS - LOOP 3 (FIG NO A-RC-3) **CSS-30** 01040 5 B-F PT ZA-0012 R2 C ELBOW TO SG INLET NOZZLE B-F PT ZA-0012 R2 C UT UTI-018 R1 C - UT UTI-018 R1 C UT UTI-004 R3 C UT UTI-005 R3 C									
ELBOW TO REACTOR COOLANT PUMP B9.11 UT UTI-018 R1 - C - **CSS-30** 29-RC-2301-NSS - LOOP 3 (FIG NO A-RC-3) 01040 5 ELBOW TO SG INLET MOZZLE B5.130 UT UTI-018 R1 C UT UTI-004 R3 C UT UTI-005 R3 C	00620	9	B-J	PT	ZA-0012 R2	c			
CSS-30 29-RC-2301-NSS - LOOP 3 (FIG NO A-RC-3) 01040 5 B-F PT ZA-0012 R2 C ELBOW TO SG INLET NOZZLE B5.130 UT UTI-018 R1 C UT UTI-004 R3 C UT UTI-005 R3 C		ELBOW TO REACTOR COOLANT PUMP	B9.11	UT	UTI-018 R1	*	С	-	
29-RC-2301-NSS - LOOP 3 (FIG NO A-RC-3) 01040 5 B-F PT ZA-0012 R2 C ELROW TO SG INLET NOZZLE B5.130 UT UTI-016 R1 C UT UTI-004 R3 C UT UTI-005 R3 C									**CSS-%0**
01040 5 B-F PT ZA-0012 R2 C ELBOW TO SG INLET NOZZLE B5.130 UT UTI-016 R1 C UT UTI-004 R3 C UT UTI-005 R3 C		29-RC-2301-NSS - LOOP 3 (FIG)	10 A-RC-3)						
ELROW TO SG INLET NOZZLE 05.130 UT UTI-016 R1 C UT UTI-004 R3 C UT UTI-005 R3 C	01040	5	B-F	PT	ZA-0012 R2	C			
UT UTI-004 R3 C UT UTI-005 R3 C		ELBOW TO SG INLET NOZZLE	B5.130	UT	UTI-016 R1	C			
UT UTI-005 R3 C				UT	UTI-004 R3	с		\sim	
				UT	UTI-005 R3	С			

DATE: REVISIO	05/19/97 DN: 0	SOUTH TEX	AS PROJECT ERVICE INS	ELECTRIC GENERATIN PECTION PLAN - 2RE0	G ST 5 (W	ATI	ON 1	UNIT 2 PAGE: 6
		FIRST II	CLASS 1	ECOND PERIOD, THIRD CLABWE STATUS COMPO	OUT	AGE	(9)	7RF)
REACTOR	COOLANI SYSTEM							
		1 Later 1			N		0	
		ASME			0	G	T	
-	PRANTINETON LOPA	SEC. XI	EVIN		K	8	H	DEWARVO
NUMBER	TDENTIFICATION	TTEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
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	29-RC-2401-NSS - LOOP 4 (F	IG NO A-RC-4	2					
			nue.	Ph. 0013 13				THE S /S C THERE I AND I THINK THE PROPERTY AND
101150		8-0	P.T.	ZA-0012 KZ	-	-	C	THE 3/16 INCH LONG LINEAR INDICATION
	16-IN. BRANCH CONNECTION	89.31	trr	UTI-010 RI	-	2		DETECTED BI A LIQUID PENETRANI SURFACE
				012-030 80				PT EXAMINATION DURING PSI HAS VERIFIED BI PT EXAMINATION DURING 2RED5. NO INCREASE IN LENGTH WAS DETECTED. THE INDICATION REMAINS ACCEPTABLE BASED ON SECTION XI ACCEPTANCE CRITERIA AND THE INDICATION WAS LEFT IN PLACE.
	27.5-RC-2303-NSS - LOOP 3	(FIG NO A-RC	-3)					
101590	3	B-J	PT	ZA-0012 R2	С	5		
	12-IN. BRANCH CONNECTION	B9.31	UT	UTI-018 R1	С	÷	.41	
								CCSS-17/CSS-80
	27.5-RC-2403-NSS - LOOP 4	(FIG NO A-RC	-4.)					
101745	4	B-J	PT	ZA-0012 R2	C		4	
	4-IN. BRANCH CONNECTION	B9.31	UT	UTI-030 R0	С	-	*	
								SS-77
	16-RC-2412-NSS (FIG NO A R	<u>C-5)</u>						
101860	1	B-J	PT	ZA-0012 R2	с			
	SAFE END TO BENT PIPE	B9.11	UT	UTI-001 R3		C		
								SS-16
101880	2	B+J	PT	ZA-0012 R2	C	*	1	
	BENT FIFE TO ELBOW	89.11	01	011-001 R3		C		

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			CLASS 1 CL	ABWE STATUS COM	PONENT	s				
REACTOR	COOLANT SYSTEM									
		A CLUTP			N		0			
		ASME			0	G	T			
CIRRIEDU	EVALUATION LODA	SEC. AI	PVEN		R	5	H	P.P.I.S. P.V.C		
NUMBER	TOPNET PICATION	TTEN NO	METHOD	DROGROUPP	6	M	E D	REMARKS		
*******	**************************************		********	********		-	-		*****	
	16-RC-2412-NSS (FIG NO A-RC	-51								
101890		Bart	PT	ZA-0012 P2	0					
101030	FLACE TO PIPE	89 11	IT	UTTI-001 R3	4	0	1			
	ELBOR IV FIFE	577 · A.A.	0.	011-001 10						
								SS-16		
101900	4	B-J	PT	ZA-0012 R2	C		1			
	PIPE TO ELBOW	B9.11	UT	UTI-001 R3		C	~			
								SS-16		
	12-RC-2312-BB1 (FIG NO A-RC	-8)								
102930	8	B-J	PT	ZA-0012 R2	С	-				
	PIPE TO PIPE	B9.11	UT	UTI-001 R3	~	C	*			
								S8-21		
			-		~					
105300	11 DIDE TO UNIVE	B-0	F1	ZA-0012 K2	C	~				
	FIFE IO VALVE	D3.11	UT	TTT-DOL RS	1.10	0	1			
				011-005 KJ		~		**SS-21**		
	12-RC-2322-BB1 (FIG NO A-RC	-11)								
103060	1	B∽J	PT	ZA-0012 R2	C	*	iii.			
	VALVE TO PIPE	B9.11	UT	UTI-001 R3		c	-			
			UT	UTI-005 R3		C		**SS-21**		
103090	4	B-J	PT	ZA-0012 R2	с					
	PIPE TO BRANCH CONNECTION	B9.11	UT	UTI-001 R3		C				
			UT	UTI-005 R3	· · · · •	C				

SOUTH TEXAS PROJECT ELECTRIC GEMERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 1 CLABWE STATUS COMPONENTS PAGE :

8

REACTOR COOLANT SYSTEM

					N		0	
		ASME			0	G	т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS
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	2-RC-2321-BB1 (FIG NO A-RC-10)							
109600	1	B-J	PT	ZA-0012 R2	С	~		
	REDUCING TEE TO BENT PIPE	B9.40						
109630	2	B-J	PT	ZA-0012 R2	C	4	-	
	BENT PIPE TO VALVE	B9.40						

DATE: REVISIO	05/19/97 ON: 0	SOUTH TEXA INSE FIRST IN	S PROJECT I RVICE INSPI TERVAL, SEC	ELECTRIC GENERATIN ECTION PLAN - 2RE0 COND PERIOD, THIRD	IG ST	ATI ELD AGE	ON 1 (9)	UNIT 2 PAGE: 9 7RF)
			CLASS 1 CI	LABWE STATUS COMPO	NENT	s		
CHEMICA	L AND VOLUME CONTROL SYSTEM							
		ACME			N	0	O T	
		SEC. XI			R	E	H	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
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	4-CV-2118-BB1 (FIG NO A-CV-	2)						
150220	1	B-J	PT	ZA-0012 R2	с			
	VALVE TO PIPE	B9.11	UT	UTI-005 R3	С		-	
								SS-7
150240	2	B-J	PT	ZA-0012 R2	с			A PLANAR REFLECTOR LOCATED WITHIN THE
	PIPE TO VALVE	B9.11	UT	UTI-005 R3	1	•	С	WELD VOLUME NEAR THE OUTSIDE SURFACE OF THE WELD WAS DETECTED BY AN ULTRASONIC EXAMINATION DURING PSI AND VERIFIED BY UT EXAMINATION DURING 2RE05. THE
								REFLECTOR HAS NOT CHANGED IN SIZE AND REMAINS ACCEPTABLE BASED ON SECTION XI ACCEPTANCE CRITERIA.
	2-CV-2121-BB1 (FIG NO A-CV-	3).						
151100	3	B-J	PT	ZA-0012 R2	c		1	
	BENT FIFE TO VALVE	B9.21						
	2-CV-2124-BB1 (FIG NO A-CV-	5)						
152320	5	B-J	PT	ZA-0012 R2	с			
	VALVE TO FIPE	B9.21						
152400	9 DEDUCTING THE TO DEDUCED	B-J	PT	ZA-0012 R2	С		1	
	REDUCING TEE TU REDUCER	B9.21						
	2(1.5)-CV-2122-BB1 (FIG NO	A-CV-4)						
154905	4FB	B-G-2	VT-1	ZA-0024 R1			E	SAMPLE EXPANSION PER IWB-2430 SEE
	FLANGE BOLTING	B7.50						SUMMARY NO. 155405. MINOR BORON RESIDUE NOTED. LEAK IS NOT ACTIVE. NO BOLTING DEGRADATION. SEE CR 97-2667. NO INCONTION CEPDIT TAKEN BECAUSE WELD WAN

INSPECTION CREDIT TAKEN BECAUSE WELD EXAMINED PREVIOUSLY IN PERIOD 1. NO FURTHER SAMPLE EXPANSION REQUIRED.

DATE: REVISI	05/19/97 ON: 0	SOUTH TEXI INSE FIRST IN	NS PROJECT ERVICE INSI ITERVAL, SI	ELECTRIC GENERATI PECTION PLAN - 2RE RCOND PERIOD, THIS	ING ST 205 (W RD OUT	ATI ELD AGE	S) (9)	UNIT 2 PAGE: 10 7RF)
CHEMICA	L AND VOLUME CONTROL SYSTEM		CLASS 1 (LABWE STATUS COM	PONENT	S		
and the second second					N		0	
		ASME			0	G	T	
		SEC. XI			R	E	H	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
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	2(1,5)-CV-2124-BB1 (FIG NO	A-CV-5)						
155400	2	B-J	PT	ZA-0012 R2	с			
	BENT PIPE TO FLANGE	B9.21						
155405	2FB	B-G-2	VT - 1	ZA-0024 R1		-	C	BORON BUILDUP AT FLANGE CONNECTION. SEE
	FLANGE BOLTING	B7.50						CR 97-2667. SAMPLE EXPANSION TO SN 154905, 155925, AND 156445. BOLTING WAY REEXAMINED AFTER BORIC ACID RESIDUE WAS REMOVED BY DECON AND NO BOLTING DEGRADATION WAS OBSERVED.
	2(1.5)-CV-2126-BB1 (FIG NO	A-CV-5)						
155925	2FB	B-G-2	VT-1	ZA-0024 R1	Ξ			SAMPLE EXPANSION PER IWB-2430 - SEE
	FLANGE BOLTING	B7.50						SUMMARY NO. 155405. NO INSPECTION CREDIT TAKEN BECAUSE THIS WELD IS SCHEDULED FOR ISI EXAMINATION IN PERIOD 3. NO FURTHER SAMPLE EXPANSION IS REQUIRED.
	2(1.5)-CV-2128-BB1 (FIG NO	A-CV-6)						
156445	2FB	B-G-2	VT-1	ZA-0024 R1	Е			SAMPLE EXPANSION PER IWB-2430 - SEE
	FLANGE BOLTING	B7.50						SUMMARY NO. 155405. NO INSPECTION CREDIT TAKEN BECAUSE THIS WELD WAS EXAMINED PREVIOUSLY IN PERIOD 1. NO

DATE: REVISI	05/19/97 ION: 0	SOUTH TEXA INSE FIRST IN	AS PROJECT E ERVICE INSPE WTERVAL, SEC	ELECTRIC GENERATIN SCTION FLAN - 2REO COND PERIOD, THIRD	G SI 5 (W OUI	ATI ELD AGE	ON 1 S)	UNIT 2 PAGE: :	1
RESIDUA	AL HEAT REMOVAL SYSTEM		CLASS 1 CL	ABWE STATUS COMPO	NENI	S			
	AN ADDRESS ADDRESS ADDRESS ADDRESS				N		0		
		ASME			0	G	T		
		SEC. XI			R	E	н		
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	12-RH-2101-BB1 (FIG NO A-RH-1	1							
200000	1	B-J	PT	ZA-0012 R2	c				
	VALVE TO PIPE	B9.11	UT	UTI-001 R3		с			
			UT	UTI-005 R3		C			
								SS-21/SS-20	
200140	8	B-J	PT	ZA-0012 R2	C				
	PIPE TO ELBOW	B9.11	UT	UTI-001 R3		С	*		
								SS-21	
200160			-	78 4445 55	~				
TAATON	ELBOW TO FIFE	B9.11	PA UT	UTI-001 R3	-	0	1		
						2			
								85-21	
200200	11	B-J	PT	ZA-0012 R2	с				
	PIPE TO PIPE	B9.11	UT	UTI-001 R3		C			
			UT	UTI-005 R3	- 20	С			

DATE :	05/19/97	SOUTH TEXA	S PROJECT E	LECTRIC GENERATING	J SI	ITA	ON I	JNIT 2 PAGE: 12
REVISI	ON: D	INSE	RVICE INSPE	CTION PLAN - 2REOS	5 (W	ELD	S)	
		FIRST IN	TERVAL, SEC	OND PERIOD, THIRD	OUT	AGE	(9)	7RF)
N			CLASS 1 CL	ABWE STATUS COMPON	VENT	s		
SAFETY	INJECTION SYSTEM							
					N		0	
		ASME			0	G	т	
		SEC. XI			R	E	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	Е	REMARKS
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	12-SI-2315-BB1 (FIG NO A-SI-2	1						
230660	7	B-J	PT	ZA-0012 R2	С			TWO INDICATIONS OF ROOT GEOMETRY WERE
	PIPE TO ELBOW	B9.11	UT	UTI-001 R3		С		DETECTED FROM OPPOSITE SIDES OF THE WELD
								NEAR THE SAME "W" LOCATION THAT WERE NOT
								PREVIOUSLY RECORDED.
								SS-21
230700	9	B-J	PT	ZA-0012 R2	c	4		
	PIPF TO VALVE	B9.11	UT	UTI-001 R3		C		
			197	IPPT OOF DO		-		

SS-21

	DATE: REVISIO	05/19/97 S DN: 0 COOLANT PUMP 2A	OUTH TEXA INSE FIRST IN	S PROJECT E RVICE INSPE TERVAL, SEC CLASS 1 CL	LECTRIC GEN CTION PLAN OND PERIOD, ABWE STATUS	ERATING - 2RE05 THIRD COMPON	ST7 (WI OUT7 ENTS	ATIO BLDS AGE	0N U S) (97	INIT 2 PAGE: 13
3	And the second second second second						N		0	
			ASME				0	G	т	
			SEC. XI				R	Е	н	
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						Ven 👘				
		FLYWHEEL (FIG NO A-RCP-3)								
	260170	RCP-2A-FW	RG	UT	UTI-003 R1		W			EXAMINED BORE, KEYWAYS, AND BOLT HOLES
		FLYWHEEL	1.14							IN PLACE.

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 1 CLABWE STATUS COMPONENTS

REACTOR COOLANT PUMP 28

FLYWHEEL

					N		0	
		ASME			0	G	т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS
NUMBER	IDENTIFICATION	TTEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
*****	*************				4		*	***************************************
	FLYWHEEL (FIG NO A-RCP-2)							
260270	RCP-2B-FW	RG	UT	UTI-003 R1	W			EXAMINED BORE, KEYWAYS, AND BOLT HOLES

1.14

IN PLACE.







SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 1 CLABWE STATUS COMPONENTS

REACTOR COOLANT PUMP 2C

					N		0	
		ASME			0	G	Т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
****		******	*******					*****
	PLYWHEEL (FIG NO A-RCP-3)							
260370	RCP-2C-PW	RG	UT	UTI-003 R1	W	е.	e	EXAMINED BORE, KEYWAYS, AND BOLT HOLES

FLYWHEEL

1.14

EXAMINED BORE, KEYWAYS, AND BOLT HOLES IN PLACE.

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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 1 CLABWE STATUS COMPONENTS PAGE: 16

EA	CTO	泉 (2001	AN	TT 1	PIB	IP.	2D
_					and the second second			

					N		0	
		ASME			0	G	т	
		SEC. XI			R	E	Н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
******	**********	******	********	**********	-	*		***************************************
	PLYWHEEL (FIG NO A-RCP-2)							
260470	RCP-2D-FW	RG	UT	UTI-003 R1	W			EXAMINED BORE, KEYWAYS, AND BOLT HOLES
	FLYWHEEL	1.14						IN PLACE.





VALVES

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 1 CLABWE STATUS COMPONENTS

PAGE: 17

					N		0	
		ASME			0	G	т	
		SEC. XI			R	E	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
******	******************************		********	***********		*	×	***************************************
	VALVE GROUP 1							
261100	PSV 3452-VB ON 6-RC-2004 FIG. NO. A-RC-6	B-G-2 B7.70	VT-1	ZA-0024 R1	В			PERFORMED BASELINE EXAMINATION ON VALVE BOLTING ON REPLACEMENT VALVE INSTALLED PER WCD NO. RC-2-345646.
263120	PSV 3452-VIS ON 6-RC-2004 FIG. NO. A-RC-6	B-M-2 B12.50	VT-3	ZA-0024 R1	В	1	*	PERFORMED BASELINE VISUAL EXAMINATION OF INTERIOR OF REPLACEMENT VALVE INSTALLED PER WCD NO. RC-2-345646. EXAMINED ALL INTERNAL PRESSURE BOUNDARY SURFACES TO THE EXTENT POSSIBLE.
261160	PSV 3451-VB ON 6-RC-2009 FIG. NO. A-RC-6	B-G-2 B7.70	VT-1	ZA-0024 R1	B	¥		PERFORMED BASELINE EXAMINATION ON VALVE BOLTING ON REPLACEMENT VALVE INSTALLED PER WCD NO. RC-2-345645.
261180	PSV 3451-VIS ON 6-RC-2009 FIG. NO. A-RC-6	B-M-2 B12.50	VT-3	ZA-0024 R1	в			PERFORMED BASELINE VISUAL EXAMINATION OF INTERIOR OF REPLACEMENT VALVE INSTALLED PER WCD NO. RC-2-345645. EXAMINED ALL INTERNAL PRESSURE BOUNDARY SURFACES TO THE EXTENT POSSIBLE.
261200	PSV 3450-VB ON 6-RC-2012 FIG. NO. A-RC-6	B-G-2 B7.70	VT-1	ZA-0024 R1	В			PERFORMED BASELINE EXAMINATION ON VALVE BOLTING ON REPLACEMENT VALVE INSTALLED PER WCD NO. RC-2-345644.
261220	PSV 3450-VIE ON 6-RC-2012 FIG. NO. A-RC-6	B-M-2 B12.50	VT-3	ZA-0024 R1	в	*	2	PERFORMED BASELINE VISUAL EXAMINATION OF INTERIOR OF REPLACEMENT VALVE INSTALLED PER WCD NO.RC-2-345644. EXAMINED ALL INTERNAL PRESSURE BOUNDARY SURFACES TO THE EXTENT POSSIBLE.



DATE: REVISI	05/19/97 0 : 0	SOUTH TEXA INSE FIRST IN	S PROJECT E RVICE INSPE TERVAL, SEC	LECTRIC GENERATI CTION PLAN - 2RE OND PERIOD, THIR	NG ST 05 (W D OUT	ATI ELD AGE	ON 1 S) (91	JNIT 2 7RF)	PAGE :	18
RESIDUAL	L HEAT REMOVAL HEAT EXCH	ANGER 2A	Sartop a Cu	NUMB SINING COMP	OTA ENTA 1	-				
					N		0			
		ASME			0	G	т			
		SEC. XI			R	Е	H			
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**		
******	********************		*******	*********	*	~		*********************		
	CIRCUMPERENTIAL WELDS (F	FIG NO B-RHX-1)								
305450	RHAHRS-2A-S2	C-A	UT	UTI-032 R0		с				
	SHELL TO FLANGE	C1.10								
								\$\$-65		
	NOZZLE TO SHELL WELDS (F	FIG NO B-RHX-1)								
305500	RHAHRS-2A-NA	C-B	PT	ZA-0012 R2	с					
	NOZZLE TO SHELL	C2.21	UT	UTI-032 R0		С				
								SS-65/SS-66		
305550	RHAHRS-2A-NB	С-в	PT	ZA-0012 R2	с		-0			
	NOZZLE TO SHELL	C2.21	UT	UTI-032 R0		С	*			

SS-65/SS-66

DATE: 05/19/97 REVISION: 0		SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (S7RF) CLASS 2 CLAEWE STATUS COMPONENTS								
AUXILIA	RY FEEDWATER SYSTEM		Curroo z C	LADRE STATUS COM	CNENT	0				
souther the set					N		0			
		ASME			0	G	т			
		SEC. XI			R	Е	н			
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	С	М	R	**CALIBRATION BLOCK**		
******	*************************		*******		÷	1	-	*************************		
	8-AF-2008-GA2[C] (FIG NO B-AF	-3)								
351740	12	C-F-2	MT	ZA-0018 R2	с					
	ELBOW TO PIPE	C5.51	UT	UT1-002 R3	-	С	*			
								CS-2		
351810	15PL1-15PL8	C-C	MT	ZA-0018 R2	с					
	PIPE LUGS	C3.20								
	8-AF-2010-GA2[C] (FIG NO B-AF	-5)								
53330	18PL1-18PL8	C-C	MT	ZA-0018 R2	c					
	PIPE LUGS	C3.20								
353470	25PL1-25PL8	C-C	MT	ZA-0018 R2	C	1	×.			
	FIFE MAD	02.40								
63620	28	C-F-2	MT	74-0018 02	~					
	PIPE TO REDUCER	C5.51	UT	UTI-002 R3		c	Ç.			
								CS-2		
	B-AF-2010-GAZ[G] (FIG NO B-AF	-6)								
54040	2	C-F-2	MT	ZA-0018 R2	С	÷	-			
	FIFE TO REDUCER	C5.51	UT	UTI-002 R3	ŕ	C	*			
								CS-2		
	6-AF-2010-GA2 (FIG NO B-AF-5,	.6)								
59660	2	C-F-2	MT	ZA-0018 82	0					
	PIPE TO ELBOW	C5.51	UT	UT1-002 R3		C				
								** (5-1**		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 2 CLABWE STATUS COMPONENTS

FEEDWATER SYSTEM

					N		0	
		ASME			0	Ģ	Т	
		SEC. XI			R	Е	H	
SUMMARY	EXAMINATION AREA	CATOY	EXAM		E	0	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
******	*************************	******	********	*****			1	
	18-FW-2018-GA2 (FIG NO B-FW-?,	8)						
502720	4	BEZ	MT	ZA-0018 R2	A			AUGMENTED ISI/BEZ.
	PIPE TO PIPE	C5.51	UT	UTI-002 R3	А	~		

CS-3

PAGE: 20

DA RE	ATE: EVISI:	05/19/97 M: 0	SOUTH TEXA INSE FIRST IN	S PROJECT E RVICE INSPE TERVAL, SEC CLASS 2 CL	LECTRIC GENERATIN CTION PLAN - 2REG COND PERIOD, THIRD ABWE STATUS COMPO	IG ST 15 (W 0 OUT	ATI ELD AGE	ON 1 S) (9	JNIT 2 PAGE: 21 7RF)
MAI	IN ST	EAM SYSTEM							
						N		0	
			ASME			0	G	т	
			SEC. XI			R	Е	Н	
SUM	MARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS
NUM	ABER	IDENTIFICATION	ITEM NC	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
		30-MS-2003-GA2 (FIG NO B-	MS-5, 5)						
555	5760	14LUI	C-F-2-L	MT	ZA-0018 R2	L	-		EXAMINED 2.5T AT THE INTERSECTING
		LONGITUDINAL WELD	C5.52	JI	UTI-002 R3	Ŀ		1	CIRCOMPERENTIAL WELD.
									CS-5
555	780	14100	C-F-2-L	MT	ZA-0018 R2	L			EXAMINED 2.5T AT THE INTERSECTING
		LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	L	*	*	CIRCUMFERENTIAL WELD.
									CS-5
555	800	14 RIBOW TO DIDE	C-F-2	MT	ZA-0018 R2	C	Ċ,		
		ENDOW TO FIFE	C5.51	01	011-002 K3		1	1	
									CS-5
555	820	14LD	C-F-2-L	MT	ZA-0018 R2	L			EXAMINED 2.57 AT THE INTERSECTING
ø		LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	L			CIRCUMFERENTIAL WELD.
									CS~5
556	400	23 DIDE TO DENETRATION	BEZ	MT	ZA-0018 R2	A		-	AUGMENTED ISI/BEZ.
		FILE IV FEREINITION	20104	01	DIT-UDE RO	^			
									CS-5
556	460	24	BEZ	MT	ZA-0018 R2	A			AUGMENTED ISI/BEZ.
		PIPE TO PIPE	C5.51	UT	UTI-002 R3		A	*	
									CS-5
556	400	LONGITUDINAL WELD	BEZLONG	177	ZA-0018 RZ	A	1		AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH
		NAMES & CONTRACT NOTES	ND . D#	57.4	VII OVA KJ	0			Harane Alberts are
									CS-33

	REVISI	0 : MC	INSE FIRST IN	TERVICE INSPE	CTION PLAN	- 2REOS THIRD ((W)	ELD	S) (9	PRF)
	MAIN ST	EAM SYSTEM		CLASS 2 CL	ABWE STATUS	COMPONE	INTE	5		
P	And the bit shows we had be						N		0	
			ASME				0	G	т	
			SEC. XI				R	Е	н	
	SUMMARY	EXAMJ ATION AREA	CATGY	EXAM			Е	0	Е	REMARKS
	NUMBER	IDEFTIFICATION	ITEM NO	METHOD	PROCEDURE		С	М	R	**CALIBRATION BLOCK**
		**	******	******	********	*****		-		***************************************
		30-MS-2003-GA2 (FIG NO B-MS-5,	6)							
	556500	25LU	BEZLONG	MT	ZA-0018 R2		A			AUGMENTED ISI/BEZ. EXAMINED 100% OF TH
		LONGITUDINAL WELD	C5.52	UT	UTI-002 R3		A	-		WELD LENGTH.
										CS-33
	556520	25 BIDE TO DIDE	BEZ	MI	ZA-0018 R2		A	1	1	AUGMENTED ISI/BEZ.
		FIFE 10 FIFE	C5.51	UT	U11-002 K3		A	*		
										CS-33
	556540	251.0	BEZLONG	MT	ZA-0018 R2		A			AUGMENTED IST/BEZ. EXAMINED 100% OF TH
		LONGITUDINAL WELD	C5.52	UT	UTI-002 R3		A			WELD LENGTH.
										CS-35
	556542	26111	DEST ONG	MT	28 0010 00					LUNDER TOT DEP DELETION SAAL OF MUSIC
	000046	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3		A	2		WELD LENGTH.
										CS-35
	556544	26	BEZ	MT	ZA-0018 R2		A			AUGMENTED ISI/BEZ.
		PIPE TO PIPE	C5.51	UT	UT1-002 R3		A	-	~	
										CS-35
	556546	26LD	BEZLONG	MT	ZA-0018 R2		£			AUGMENTED ISI/BEZ. EXAMINED 100% OF TH
		LONGITUDINAL WELD	C5.52	UT	UTI-002 R3					WELD LENGTH.
										CS-35
	5565 (8	27131	REZIONO	MT	78.0010 00					MUMPATED TOT/DES EVANTHED LOOK OF TH
	200010	LONGITUDINAL WELD	C5.52	UT	UTI-002 83	1.0	A		2	WELD LENGTH
										(%-35
REVISI	ON: 0	SOUTH TEXA INSE FIRST IN	S PROJECT E RVICE INSPE ITERVAL, SEC	LECTRIC GENERATING CTION PLAN - 2REOS OND PERIOD, THIRD	I ST W) B OUT	'ATI IELD 'AGE	ON U (97	NIT 2 (RF)	PAGE :	23
-----------------------	--------------------------------	--------------------------------	--	---	---------------------	----------------------	-------------	--	--------	-------
MAIN ST	EAM SYSTEM		-1810 B - 11	NORE STATUS COMPUT	a Difa 1	þ				
		1			N		0			
		ASME			0	G	T			
SUMMARY	EXAMINATION ADEA	CLARCY	FYAM		R	E	H D	6948590		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	0	M	n n	**CELTERETION DIACK**		
10-10-10-10-10-10-10-							10	**************************************	******	
	30-M0-2003-012 (PTC NO B-M0-5	-								
	30-PO-6003-GAG (FIG RO D-PD-3)									
556550	27	BEZ	MT	ZA-0018 R2	A	*	ie.	AUGMENTED ISI/BEZ.		
	PIPE TO PIPE	C5.51	UT	UTI-002 R3	A	4	Ξ.			
								CS-35		
556552	27LD	BEZLONG	MT	ZA-0018 R2	A			AUGMENTED IST/BEZ. EXAMINED	100% 0	F THE
	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	A		*	WELD LENCTH.		
								CS-35		
556560	28LU	BEZLONG	MT	2A-0018 R2	A			AUGMENTED ISI/BEZ. EXAMINED	100% 0	F THE
	LONGITUDINAL WELD	C5 52	UT	UTI-002 R3	A	1	*	WELD LENGTH.		
								CS-35		
556580	28	BEZ	MT	ZA-0018 82	A			ATTOMENTER) TOT /DE2		
	PIPE TO VALVE	C5.51	UT	UTI-002 R3	A	.*		Proversities and a star and a		
								CS-5		
556600	29	C-F-2	MT	ZA-0018 R2	с	-				
	VALVE TO PIPE	C5.51	UT	UTI-002 R3	*	С	*			
								CS-5		
556620	29LD	BEZLONG	MT	ZA-0010 R2	A		Υ.	AUGMENTED ISI/BEZ. EXAMINED	100% 0	F THE
	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	A	-		WELD LENGTH.		
								CS-34		
556630	29PL1-29PL8	0-0	MT	ZA-0018 82	~					

.

PRUTET	CMI 0	DOUTH IEAN	DITOR THON	DANDARDAN MEMORY AND	*			PAGE: 26
NEV101	un. U	TINGS FIRST IN	TERVAL SE	SOND DEPIGD THISD	5 (W	BLD	5)	70.01
		Fabric an	CLASS 2 C	LABWE STATUS COMPO	NENT	S	12	7KF (
MAIN ST	EAM SYSTEM							
					N		0	
		ASME			0	G	T	
CIBBILDY	EVENTER TOP LEEL	SEC. XI	TURK		R	E	H	
NUMBER	IDENTIFICATION	TTEM NO	EXAM METTIOD	DECORDITEE	E	0	B	REMARKS
******	******		*******		-	-		CALIBRATION BLOCK
	30-MS-2003-GA2 (FIG NO 1	8-MS-5, 6)						
556640	30LU	BEZLONG	MT	2A-0010 R2	A	~		AUGMENTED ISI/BEZ. EXAMINED 100% OF TY
	LONGITODINAL WELD	C5.52	UT	UTI-002 R3	A		1	WELD LENGTH.
								CS-34
556660	30 PIDE TO DIDE	BEZ	MT	ZA-0018 R2	A		1	AUGMENTED ISI/BEZ.
	FILE IN FILE	02.21	01	011-002 R3		1		
								CS-33
556680	301.0	BP71 ONO	MT	78.0058.00				ATPARTMENT TOT DER TWALTARE LOST OF
	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	A	-	2	WELD LENGTH.
								CS-34
556700	31LU	BEZLONG	MT	2A-0018 R2	А			AUGMENTED ISI/BEZ. EXAMINED 100% OF TH
	LONGITUDINAL WELD	C5.52	UT	1711-002 R3	1.96	A	*	WELD LENGTH.
								CS-34
556720	31	BEZ	MT	ZA-0018 R2	A	1	20	AUGMENTED ISI/BEZ.
	FIFE TO FIFE	C5.51	UT	UTI-002 R3	1	A		
								CS-5
	30-MS-2004-GA2 (FIG NO 1	8-MS-7, 8)						
1								
557340	ALUI LONGITUDINAL WELD	C-F-2-L C5.52	MT	ZA-0018 R2 UTI-002 R3	L		÷.	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD.
								/75_5
557360	4100	C-F-2-1	MT	ZA-0018 R2	L		÷	EXAMINED 2.5T AT THE INTERSECTING
	LONGITUDINAL WELD	C5.52	טינ	UTI-002 R3	L		4	CIRCUMFERENTIAL WELD.
								CS-5

DATE: REVISI	05/19/97 ON: 0	SOUTH TEXA INSE FIRST IN	S PROJECT RVICE INS TERVAL, 1 CLASS 2	ELECTRIC GENERATION SPECTION PLAN - 2RE SECOND PERIOD, THIR CLABWE STATUS COMP	NG 81 05 (W D OUT ONENT	ATI ELD AGE S	ON 1 5) (9)	INIT Z PAGE: 25 (RF)
MAIN ST	EAM SYSTEM							
					N		0	
		ASME			0	G	Т	
		SEC. XI	-		R	E	H	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	-	-	ж. т. :	**CALIBRATION BLOCK**
	30-MS-2004-GA2 (FIG NO B	-MS-7, 8)						
557380	4	C-F-2	MT.	ZA-0016 R2	e			
	ELBOW TO PIPE	C5.51	UT	UTI-002 R3	C		*	
								CS-5
	상태 사람이 가지?							
557400	4LD LONGITUDINAL WELD	C-F-2-L C5.52	MT	ZA-0016 R2 UTI-002 R3	L		i den se Santi	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD.
					1			
								CS-5
558700	22	BEZ	MT	ZA-0018 R2	A			AUGMENTED ISI/BEZ.
	PIPE TO PENETRATION	C5.51	UT	UTI-002 R3	A	+	1	
								CS-5
								100400-000 100 /000
556760	PIPE TO PIPE	B52 C5.51	UT	UTI-002 R3	A	A	2	AUGMENTED IST/BEZ.
								CS-5
558780	23LD	BEZLONG	MT	ZA-0018 R2	A	*		AUGMENTED ISI/BEZ. EXAMINED 100% OF THE
	LONGITODINAL WELD	50.02	01	011-002 K3	~	1	1	WELD LIDNOIN.
								CS-33
558800	241.0	BEZLONG	MT	ZA-0018 R2	A	÷.		AUGMENTED ISI/BEZ. EXAMINED 100% OF TH
	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	А			WELD LENGTH.
								CS-33
556820	24	BEZ	MT	ZA-0018 R2	A	-		AUGMENTED ISI/REZ
	PIPE TO PIPE	C5.51	UT	UTI-002 R3	A	×	*	

DATE: REVIS	D5/19/97 ION: 0	SOUTH TEXA INSE	S PROJECT	ELECTRIC GENERATIN PECTION PLAN - 2RE	IG ST)5 (W	ATI	ON (UNIT 2	PAGE: 26
		FIRST IN	TERVAL, S	ECOND PERIOD, THIR	our	AGE	(9	7RF)	
			CLASS 2	CLABWE STATUS COMPO	DNENT	S			
MAIN S	TEAM SYSTEM								
		ACMP			N	~	-		
		SEC XT			P	2	11		
SUMMAR	Y EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	c	M	R	**CALIBRATION BLOCK	(**
		****** ******	*****		1			*********	
	30-MS-2004-GA2 (PIG NO B	-MS-7, 8)							
558840	24LD	BEZLONG	MT	2A-0018 R2	А			AUGMENTED ISI/BEZ.	EXAMINED 100% OF TH
	LONGITUDINAL WELD	C5.52	UT	UT1-002 R3	A	۰.		WELD LENGTH.	
								CS-35	
558842	2510	BEZLONG	MT	ZA-0018 R2	A			AUGMENTED ISI/BEZ	EXAMINED 100% OF TH
	LONGITUDINAL WELD	C5.52	UT	UT1-002 R3	A	×	10	WELD LENGTH.	
								CS-35	
65,6844	26	577	Let.	78.0018.85				ATTRACIAMENT TOT /DDV	
000011	PIPE TO PIPE	C5.51	UT	UTI-002 R3	A			RUGRENIED IDI/DEC.	
								CB-35	
	0130	DEVI ONO	MP	75 0018 P2				KINGSTRON TOT DOG	EVANTED 1666 OF TH
9 220040	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	A			WELD LENGTH.	EXAMINED IDDA OF IN
								C6-35	
558848	26LU LONGITUDINAL WELD	BEZLONG	MT	ZA-0018 R2	A	1	1	AUGMENTED ISI/BEZ.	EXAMINED 100% OF TH
	ANALY AND ANALY AND ADDREED	00.04		011-006 83				HDLL MDHULN.	
								CS-35	
558850	26	BEZ	MT	ZA-0018 R2	A	i,		AUGMENTED ISI/BEZ.	
	PIPE TO PIPE	C5.51	UT	UTI-002 R3	A		÷		
								CS-35	
558852	26LD	BEZLONG	MT	ZA-0018 R2	A			AUGMENTED ISI/BEZ.	EXAMINED 100% OF TH
	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	A	14	1.00	WELD LENGTH.	

	AN . 0	INSE	RVICE INSPE	CTION PLAN - 2REC	15 (W	ELD	5)	
		FIRST IN	TERVAL, SEC	COND PERIOD, THIRE	our	AGE	(91	7RF)
MATE OT	ALL DUDTELL		CLASS 2 CI	ABWE STATUS COMPO	NENI	S		
CA16 211	SAM SISIEM							
		ASME			0	a	T	
		SEC. XI			R	E	H	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
******	*************************	******	*******	***********		н.		***************************************
	30-MS-2004-GA2 (FIG NO B-MS-7,	6)						
558860	2710	BEZLONG	MT	ZA-0018 R2	A			AUGMENTED ISI/REZ. EXAMINED 100% OF T
	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	A	÷		WELD LENGTH.
								CS-35
558880	27	C-F-2	MT	ZA-0018 R2	c			
	PIPE TO VALVE	C5.51	UT	UTI-002 K3	*	С	-	
								(^55
558900	28	BEZ	MT	ZA-0018 R2	A		х.	AUGMENTED ISI/BEZ.
	VALVE TO PIPE	C5.51	UT	UTI-002 R3	A	*	2	
								CS-5
558920	26LD	BEZLONG	MT	ZA-0018 R2	A		4	AUGMENTED ISI/BEZ. EXAMINED 100% OF T
	LONGITUDINAL WELD	C5.52	UT	UT1-002 R3	A	÷	+	WELD LENGTH.
								CS-34
558925	28PL1-28PL8	C-C	MT	ZA-0018 R2	С			
	PIPE LUGS	C3.20						
558940	29LU	BEZLONG	MT	ZA-0018 R2	A			AUGMENTED ISI/BEZ. EXAMINED 100% OF T
	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	A		Υ.	WELD LENGTH.
								CS-34
	20	5.00		23 0018 NO				ATTEMPTINES TOT /DES
226360	FIPE TO FIPE	C5.51	UT	UT1-002 R3	A			NUMBRIED 101/DEC.

REVISI	00/19/97	SOUTH TEXA INSI FIRST II	AS PROJECT E ERVICE INSPE FTERVAL, SEC	LECTRIC GENERATI CTION PLAN - 2RE COND PERIOD, THIR	NG ST 105 (W D OUT	ATI ELD AGE	ON (97	INIT 2 PAGE: 28
MAIN ST	EAM SYSTEM		CLASS 2 CL	ABWE STATUS COMP	ONENT	S		
					N		0	
		ASME			0	G	Т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
	*************************************		******	********	. *	1	- M	*******
	30-MS-2004-GA2 (FIG NO B-MS-1	· <u>. 8)</u>						
558980	29LD	BEZLONG	MT	28-0018 00				BINISHINGS TOT (UP)
	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	A	1	6	WELD LENGTH
								The second
								CS-34
559000	BOLU	BEZLONG	MT	ZA-0018 R2	A	1		AUGMENTED ISI/BEZ. EXAMINED 100% OF TH
	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	А			WELD LENGTH.
								** (5-36**
559020	30	BEZ	MT	ZA-0018 R2	A			AUGMENTED ISI/BEZ.
	PIPE TO PIPE	C5.51	UT	UTI-002 R3		A	10	

	16-MC-2004-042 (FTO NO D-MC-4							
	TO THE FORM SING TING NO B-HD-D	<u>u</u> .						
561080	1	BEZ	MT	ZA-0018 R2	A	÷	+	AUGMENTED ISI/BEZ.
	EXTRUSION TO PIPE	C5.51	D.I.	UTI-002 R3	A	4	ж.,	
								** 05-15**
561100	2	BET	MT	28-0016 82		ė.		ATEMADAPTED TOT/DES
	PIPE TO WELD CAP	C5.51	UT	UTI-002 R3		A	1	NUMERIED ISI/DEL.
								CS-15
	6-ME-2004-052 (8) (PTO NO B-MC	(~8)						
	ALL	warming sides						
	A US FAAL AUF (U) TI TA HA D HO							
\$67900	1	BEZ	MT	ZA-0018 R2	А			AUGMENTED ISI/BEZ.

CS-75

DATE: 05/19/57 REVISION: 0 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 2 CLABWE STATUS COMPONENTS

PAGE: 29

MAIN STEAM SYSTEM

					N		0	
		ASME			0	G	T	
		SEC. XI			R	Ε	н	
SUMMAJ	Y EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
	* ********************************	(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,		******	ω.	-	÷	******
	6-MS-2004-GA2(B) (FIG NO B-MS-	8)						
56800	1	BEZ	MT	ZA-0018 R2	A			AUGMENTED ISI/BEZ.
	EXTRUSION T" FLANGE	C5.51	UT	UTI-002 R3	A	5		







REVISIO	XN : 0	INSE FIRST IN	RVICE INS TERVAL, S CLASS 2	PECTION PLAN - 2R ECOND PERIOD, THI CLABWE STATUS COM	E05 (W RD OUT	AGE)S)	7RF)
SAFETY I	NJECTION SYSTEM							
					N		0	
		ASME			0	G	Т	
-	PURAL PROPERTY AND A DOCK	SEC. KI	THE R. L.		R	E	H	
NTIME PD	IDENTIFICATION	TARM NO	METHOD	DD OVERDITE F	0	M	5	**CALIDEATION BLOCK**
n ((= < = = =	***********************					7	-	
	24-51-2101-UB2 (FIG NO B-	<u>81-1, 2)</u>						
600003	41.07	C-P-1-1	D/F	28-0012 85				DVANTARD S OF AT MUD TAMEDOD/PETAR
033320	LONGTRUTTEL WELD	C-F-1-1	LTT.	1777-012 R2	34 4		÷.	CTECTMEEDEENTIAL WELLS
	INMALLUDINAL WELL	05.14	01	UII-UIZ RZ	1			CIRCUMPERENTIAL WELD.
								\$5-32
700000	1	C-F-1	PT	ZA-0012 R2	C			
	NOZZLE TO PIPE	C5.11	UT	UTI-012 R2		C	-	
								SS-32
700020	LLD	*U-F-1-L	PT	2A-0012 R2	L			EXAMINED 2.5T AT THE INTERSECTING
	LONGITUDINAL WELD	C5.12	UT	UTI-012 R2		L		CIRCUMPERENTIAL WELD.
								\$\$-32
200040	2141	0-2-1-1	TOT I	28.0010 00				DVAMINED O OF AN AUE THADDOD/PATAL
100040	LONGTWIDINAL WELD	C5 12	177	ITT -012 P2				CTECTMEEDENTIAL WELD NO IFF BACELING
	ANNOLLOWING HOLD	100 1 A B	UT	UTTI-004 R3			1	PRIOR TO 2REOS
								SS-32
700060	2	C - F - 1	PT	ZA-0012 R2	C			NO UT BASELINE PRIOR TO 2RE05.
	PIPE TO ELBOW	C5.11	UT	UTI-012 R2		C		INTERMITTENT ROOT GEOMETRY DETECTED WITH
			UT	UTI-004 R3	C		3	45 DEGREE SEARCH UNIT.
700080	2LDI	C-F-1-L	PT	ZA-0012 R2	L		÷.	EXAMINED 2.5T AT THE INTERSECTING
	LONGITUDINAL WELD	C5.12	UT	UTI-012 R2	L		÷.	CIRCUMFERENTIAL WELD. NO UT BASELINE
			UT	UTI-004 R3	L		•	PRIOR TO 2RE05. **SS-32**
-								
700100	ZIDO	C-F-1-'.	T's	ZA-0012 R2	L		*	EXAMINED 2.5T AT THE INTERSECTING
	LONGSTOLINGL WELD	C5.12	UT	UT1-012 R2	1			PRIOR TO 2REDS. NO UT BASELINE
				011-003 MD				*****

REVISI	05/19/9/ 5/N: 0	SOUTH TEXA	RVICE INSP	ELECTRIC GENERATIN ECTION PLAN - 2RE0	3 813 5 (W	ELD	S)	JNIT 2 PAGE:
		FIRST IN	TERVAL, SE	COND PERIOD, THIRD	OUT	AGE	(91	7RF)
			CLASS 2 CI	LABWE STATUS COMPON	NENT	s		
AFETY	INJECTION SYSTEM							
					N		0	
		ASME			0	G	Т	
		SEC. XI			R	E	Н	
UMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
TMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
*****			********				-	***************************************
	24-SI-2101-UB2 (FIG NO B-SI-	1.22						
			-					
01680	27LU	C-F-1-L	P.1	ZA-0012 K2	24		1	EXAMINED 2.5T AT THE INTERSECTING
	LONGITUDINAL WELD	CD.76	01	UTI-UTZ RZ	5		ĵ.,	CIRCOMPERENTIAL MELD.
								55-32
01700	27	C-F-1	PT	ZA-0012 R2	C	-		
	PIPE TO REDUCER	C5.11	UT	UTI-012 R2		ç		
								55-32
01720	27LD	C-F-1-L	PT	ZA-0012 R2	- 10 -	~	*	EXAMINED 2.5T AT THE INTERSECTING
	LONGITUDINAL WELD	C5.12	UT	UI1-012 K2	de .	1	10	CIRCOMPERENTIAL WELD.
								SS-32
	6-SI-2206-DB2 (FIG NO B-SI-1)	6)						
39320	24	C-F-1	PT	ZA-0012 R2	С	1	1	
	PENETRATION TO PIPE	C5.11	UT	UTI-012 R2		С	*	
								SS-23
39340	25	C-F-1	PT	ZA-0012 R2	C		π	
	PIPE TO ELBOW	C5.11	UT	UTI-012 R2	С		*	
								SS-23
39360	26	C-F-1	PT	ZA-0012 R2	С	+	3	
	ELBOW TO PIPE	C5.11	UT	UTI-012 R2	Ċ	1		
								\$5-23
39380	27	C-F-1	PT	ZA-0012 R2	C	100		
	PIPE TO VALVE	C5.11	UT	UT1-012 R2	C	1	η.	

DATE:	05/19/97	SOUTH TEXA	S PROJECT	ELECTRIC GENERAT	ING S	FATI	ON I	JNIT 2 PA	AGE :	32
REVIEL	ON 2 0	FIRST IN	TERVAL SE	COND PERIOD THI	CEUS (I	TACE	1 (9)	70.01		
		1 1 1 1 1 1 1	CLASS 2 C	LABWE STATUS CON	PONEN'	rs				
SAFETY	INJECTION SYSTEM									
					N		0			
		ASME			0	G	т			
		SEC. XI			R	E	Н			
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	Ē	REMARKS		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**		
	6-51-2206-DB2 (FIG NO B-51-16)									
739400	28	C-F-1	PT	ZA-0012 R2	C		*			
	VALVE TO PIPE	C5.11	UT	UTI-012 R2	C		1			
								SS-23		
	6-SI-2207-BB2 (FIG NO B-SI-16									
740640	4	C-F-1	PT	ZA-0012 R2	C		4			
	PIPE TO ELBOW	C5.11	UT	UTI-001 R3		C				
								55-9		
740660	5	C-F-1	PT	ZA-0012 R2	c					
	ELBOW TO PIPE	C5.11	UT	UTI-001 R3	-	С	÷			
								55-9		
	6-SI-2210-BB2 (FIG NO B-SI-17	2								
741920	2	C-F-1	PT	ZA-0012 R2	с	-				
	PIPE TO VALVE	C5.11	UT	UTI-001 R3		c	,			
								SS-9		
	2-81-2335-DB2 (FIG NO B-51-23	2								
747180	19	C-F-1	PT	ZA-0012 R2	в			NO EXAMINATION WAS REQUIRED OF	THIS	WE
	PLDOW TO DIDE	CE 20		and some and				APROPADE DESIGN DESIGN AND A		

DURING 2RE05. THIS WELD WAS REPLACED ON 10-4-96 IN ACCORDANCE WITH WCD NO. SI-340353, WHICH WAS INITIATED TO REPLACE VALVE SI0120C. THE BASELINE PT EXAMINATION PERFORMED ON THE NEW WELD ON 10-4-96 WILL BE INCLUDED IN THE 2RE05 SUMMARY REPORT.

all.

DATE: 05/19/97 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (WELDS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 2 CLABWE STATUS COMPONENTS

SAFETY INJECTION SYSTEM

					N		0	
		ASME			0	G	т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	я	**CALIBRATION BLOCK**
		Antenana	*********	*****		\sim	$\dot{\pi}$	***************************************

2-SI-2335-DB2 (FIG NO B-SI-23)

747190 20 PIPE TO VALVE

C-F-1 PT C5.30

ZA-0012 R2 B - - NO EXAMINATION WAS REQUIRED ON THIS WELD DURING 2RE05. THIS WELD WAS REPLACED ON 10-4-96 IN ACCORDANCE WITH WCD NO. SI-340353, WHICH WAS INITIATED TO REPLACE VALVE SI0120C. THE BASELINE PT EXAMINATION PERFORMED ON THE NEW WELD ON 10-4-96 WILL BE INCLUDED IN THE 2RE05 SUMMARY REPORT.

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APPENDIX 2-B

PERSONNEL





APPENDIX 2-B

PERSONNEL

Name	Company UT		MT	PT	VT
Blecha,P.	SSI	II	*	П	*
Brown, T.	SSI	*	II	II	*
DiValerio, P.	SSI	II	II	П	II
Garcia, D.	SSI	II	II	II	*
Grell, M.	SSI	II	II	П	II
Hahn, M.	SSI	II	*	*	*
Harry, A.J.	SSI	II	*	II	*
Jackson, T.E.	SSI	*	II	*	*
Nagel, A.	SSI	II	*	II	*
Williams, S.	SSI	II	*	*	*
Busby, R.	HL&P	*	*	*	П
Hubbard, S. K.	HL&P	III	III	III	III
Kieler, K.	HL&P	*	*	*	II
Smith, T.	HL&P	*	*	II	*
Spiess, L. D.	HL&P	III	*	III	*



Company

SSI - Sonic Systems International, Inc. HL&P - Houston Lighting & Power Co.

* -This NDE method not performed for ISI by these personnel during this refueling outage.

APPENDIX 2-C

HL&P PROCEDURES

APPENDIX 2-C

HL&P PROCEDURES

Procedure No.	Rev.	Title
0PQP05-ZA-0001	1	Qualification and Certification of Nondestructive Examination Personnel
0PQP05-ZA-0004	1	General Ultrasonic Examination
0PQP05-ZA-0009	0	Recording Data from Direct Visual, Liquid Penetrant, and Magnetic Particle Examinations
0PQP05-ZA-0012	2	Color Contrast Solvent Removable Liquid Penetrant Examination for ASME XI PSI/ISI
0PQP05-ZA-0018	2	Dry Powder Magnetic Particle Examination for ASME XI PSI/ISI
0PQP05-ZA-0023	1	Visual Examination of Component Supports for ASME XI Inservice Inspection
0PQP05-ZA-0024	1	ASME XI Examination for VT-1 and VT-3
UTI-001	3	Manual Ultrasonic Examination of Austenitic and Dissimilar Metal Pressure Piping Welds Using Refracted Longitudinal Technique
UTI-002	3	Manual Ultrasonic Examination of Ferritic Pressure Piping Welds
UTI-003	1	Manual Ultrasonic Examination of Reactor Coolant Pump Flywheels From the Access Holes
UTI-004	3	Manual Ultrasonic Examination Using Longitudinal Wave Straight-Beam Technique
UTI-005	3	Manual Ultrasonic Examination of Austenitic Pressure Piping Welds
UTI-006	1	Manual Ultrasonic Indication Sizing
UT1-007	0	Recording Indications During Ultrasonic Examinations
UTI-008	0	Weld Joint Identification Marking



APPENDIX 2-C

HL&P PROCEDURES

Procedure No.	Rev.	Title
UTI-012	2	Manual Ultrasonic Examination of Thin Wall Piping Welds
UTI-016	1	Manual Ultrasonic Examination of Vessel-to-Nozzle Inner Radius Sections
UTI-017	2	Manual Ultrasonic Examination of Ferritic Pressure Vessel Welds (Greater Than 2 to 12 Inches in Thickness)
UTI-018	1	Manual Ultrasonic Examination of Centrifugally Cast and Static Cast Stainless Steel Piping Welds
UTI-023	0	Transducer Analysis
UTI-030	0	Manual Ultrasonic Examination of Austenitic Branch Connection Welds fron the Branch Connection Taper
UTI-032	0	Manual Ultrasonic Examination of Pressure-Retaining Welds in Thin-Walled Vessels



2-C-2

APPENDIX 2-D

ISI EXAMINATION LIMITATIONS

APPENDIX 2-D

ISI EXAMINATION LIMITATIONS

Table of Contents

STPEGS-2 Summary of Inservice Examination Limitations

Class 1 Components

ASME Category B-D Steam Generator

ASME Category B-F Pressurizer Reactor Coolant system

ASME Category B-J Reactor Coolant System



Class 2 Components

ASME Category C-B RHR HX 2A

ASME Category C-C Main Steam System



SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2 SUMMARY OF INSERVICE EXAMINATION LIMITATIONS

The following tables provide details on the limitations which were encountered during the ISI examinations at the South Texas Project Electric Generating Station, Unit 2 (STPEGS-2). Each table of this summary provides the following information as described:

Column 1 - Class/Category/Item No./Examination Requirement

Identifies the ASME Section XI Code Class, Category, Item Number, and Examination Requirement (volumetric or surface) for the specific examination area listed in Column 2. This information is derived from Tables IWB-2500-1 and IWC-2500-1 of the 1983 Edition of ASME Section XI (with Addenda through Summer 1983), and Tables 1 and 2 of Code Case N-408.

<u>Column 2</u> - Line No./Subassembly Weld Identification Weld ID Figure Weld Configuration Examination Method

Provides information for each examination area by line number (piping) or subassembly number (vessel), unique weld identification number, weld ID figure reference, weld configuration (pipe-to-tee, head-to-shell, etc.), and examination method (UT, UT/PT, or UT/MT).

Column 3 - Exam Type

Lists the Methods of Examinations used for each area by specific angles for UT (0, 45, 45T, 60, 60T) and surface technique (MT or PT), if required.

Column 4 - % Coverage

The extent of coverage for each exam type is expressed in percentages based on the examination volume/area required in Section XI. Depending on method, the percentage coverage may be represented in more than one way.

Surface methods are the simplest and are expressed as a percentage of the required surface area receiving no coverage and the remaining balance from 100% as the total coverage.

Ultrasonic coverage is first expressed for each exam type as a percentage of the volume receiving no coverage, angle-beam coverage in one direction only, and angle-beam coverage in two directions. These percentages are then used to compute the effective coverage for that exam type. In the case of 0 degree, the effective coverage is equal to the balance of 100% minus the percentage receiving no coverage. The effective coverage for angle beam is calculated from the following formula:





 $c = \underline{a + 2^*b}$ (effective coverage formula, angle beam)

2

where a = one direction only percentage

b = two direction percentage

Examples:

(1)	none 0%	1 dir 0%	2 dir 100%	
	c = <u>0</u>	+ <u>2*100</u> 2)	= 100% effective coverage
(2)	none 0%	1 dir 100%	2 dir 0%	
	c = <u>10</u>	0 + 2*(2	2	= 50% effective coverage
(3)	none 50%	1 dir 50%	2 dir 0%	
	c = <u>50</u>	+ 2*0		= 25% effective coverage

The total UT coverage is then expressed as the average of the effective coverage percentages for each UT exam type. Each UT exam type is considered as equal weight in the calculation of the average.

Column 5 - Limitation

A description of the type of limitation and primary reason for why the coverage was limited is provided in this section.



1997 2RE05 ISI

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2

ASME CATEGORY B-D

SYSTEM: STEAM GENERATOR (CLASS 1)

CLASS	LINE NO. SUBASSEMBLY	1	COVERAGE									
CATCY ITEM NO. EXM ROT	- WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METROD	EXAM TYPE	NONE	I DIR ONLY	2 DIR	EFF. COV.	TOTAL	LINITATION				
1	\$ / G 2C	0	30			70		EXAMINATION LIMITED TO W=2.0 INCHES ON THE				
B-D	IN	45	7	93	0	47	1.	NOZZLE SIDE DUE TO COMPONENT				
B3.130	FIGURE NO. A-SG-1	60	7	93	0	47		CONFIGURATION.				
VOL		45T	30	0	70	70						
	IN NOZZ TO CHANN HEAD CAP	60T	30	0	70	70						
017200	UT					Ŀ	61					

CLASS	LINE NO SUBARSEMBLY WELD IDENTIFICATION WELD ID FNGURE WELD CONFIGURATION EXAMINATION METHOD	EXAM	1	COVE	BAGE		A.	
CATCY ITEM NO. EXM RQT			NONE	I DCR ONLX		EFY. COV.	TOTAL	LIMITATION
1	\$ / G 2C	0	30		- 1	70		EXAMINATION LIMITED TO W=2.0 INCHES ON THE
B-D	ON	45	7	93	0	47		NOZZLE SIDE DUE TO COMPONENT
B3.130	FIGURE NO. A-SG-1	60	7	93	0	47	1	CONFIGURATION.
VOL		45T	30	0	70	70	1	
12.1	CHAN HEAD CAP TO OUT NOZZ	60T	30	0	70	70		
017300	UT		-				61	

ASME CATEGORY B-F

SYSTEM: PRESSURIZER (CLASS 1)

CLASS	- LINE NO SUBASSEMBLY - WELD IDENTIFICATION			COVE	RAGE			
CATGY ITEM NO. EXM &QT	WELD ID FIGURE WELD CONFIGURATION EXAMINATION METHOD	EXAM TVPE	NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	IJMITATION
1 B-F B5.40 VOL/SURF	PRZ-2 N1-SE FIGURE NO. A-PRZ-1 NOZZLE TO SAFE END	45 45T	7 0	73 0	20 100	57 100	78	LIMITED UT45 FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION. LIMITED UT45 FROM THE SAFE END SIDE DUE TO PROXIMITY OF WELDED LUGS.
011700	UT/PT	PT	0				100	

CLASS	- LINE NO.SUBASSEMBLY WELD IDENTIFICATION			COVE	KAGE	S. t.		All and a straight of the
CATGY ITEM NO. EXM RQT	- WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	NONE	I DIR	2 DIR	EFF. COV.	TUTAL	LIMITATION
1 B-F B5.40 VOL/SURF	PRZ-2 N2-SE FIGURE NO. A-PRZ-1 SAFE END TO NOZZLE	45 45T	4	57 0	39 100	68 100	84	LIMITED UT45 FROM THE SAFE END SIDE DUE TO SAFE END CONFIGURATION.
011800	UT/PT	PT	0			1.	100	



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1997 2RE05 ISI

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2

ASME CATEGORY B-F (CONTD)

SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1)

(3.5.88	- LINE NO BUBARSEMELY WELD IDENTIFICATION	1-11-		CONT	MAGE		V.	
CATUFY ITEM NO. EXM ROT	WELN ID FIGURE	ERAM	NONE	I DIK	2 DIR	EFF. COV,	TOTAL	LEMITATION
1 B-F 85.130 VOL/SURF	31-RC-2302-NSS 1 FIGURE NO. A-RC-3 NOZZLE TO ELBOW	45 45T	0	50 0	50 100	75 100	88	NO EXAMINATION ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION.
100360	UTAPT	PT	0				100	

CLASS	WELD IDENTIFICATION		Pares .	COVE	AGE	and the	and the state	
CATGY ITEM NO EXM ROT	- WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM	NONE	I DIR ONLY	2 DIR	EFY. COV.	TOTAL	LIMITATION
1 B-F B5.130 VOL/SURF	29-RC-2301-NSS 5 FIGURE NO. A-RC-3 ELBOW TO NOZZLE	45 45T	40 50	60 0	0 50	30 50	40	LIMITED UT 45 FROM BOTH SIDES AND NO UT 45T FROM THE NOZZLE SIDE DUE TO TRANSDUCER LIFTOFF DUE TO CONFIGURATION.
101040	UT/PT	PT	0				100	

ASMF. CATEGORY B-J

SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS I)

CLASS	- LINE NO / CHANSEMBLY WELD / DV 2017FICATION			COVE	RAGE	and a state		
CATGY - WELL ITEM NO WELL EXM RQT - ESAT	- WELD ID FIGURE - WELD CONFIGURATEON - EXAMINATION METROD	EXAM	NONE	1 DER ONLY	2 DIR	EFF. COV.	TOTAL	LIMITATION
1 B-J B9.11 VOL/SURF	31-RC-2202-NS5 9 FIGURE NO. A-RC-2 ELBOW TO PUMP	45 45T	0 100	50 0	50 0	75 0	38	LIMITED UT45 ON BOTH SIDES AND NO UT45T DUE TO TRANSDUCER LIFT OFF DUE TO WELD CONFIGURATION .
100260	UT/PT	PT	0				100	

CLASSE	- LINE NO. NUBARSEMBLY - WELD IDENTIFICATION		1 Jak	COVE	RA GEL		198	W. W. W.
CATCH ETEM NO. EXM BOT	WELD ID PIGURE	EXAM	NONE	1 DIR	2 DIR	EPF, COV.	TOTAL	LINITATION)
l B-J B9.11 VOL/SURF	31-RC-2302-NSS 9 FIGURE NO. A-RC-3 ELBOW TO PUMP	45 45T	0 100	50 0	50 0	75 0	38	LIMITED UT45 ON BOTH SIDES AND NO UT45T DUE TO TRANSDUCER LIFT OFF DUE TO WELD CONFIGURATION .
100440	UT/PT	PT	0				100	

1997 2RE05 ISI

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2

ASME CATEGORY B-1 (CONTD)

SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1)

CL498	- LINF NO SUBARSEMBLY WELD IDENTIFICATION	a the st		COVI	RACE			
CATGE ITEM NO. EXM ROT	WELD ID FIGURE WELD CONFIGURATION EXAMINATION METHOD	EXAM.	NONE	I DIR ONLY	2 DIR	EFF. COV.	TOTAL	0 LIMITATION
1 B-J B9.11 VOL/SURF	31-RC-2402-NSS 9 FIGURE NO. A-RC-4 ELBOW TO PUMP	45 45T	0 100	50 0	50 0	75 0	38	LIMITED UT45 ON BOTH SIDES AND NO UT45T DUE TO TRANSDUCER LIFT OFF DUE TO WELD CONFIGURATION .
100620	UT/PT	тч	0				100	

CLASS	- LINE NO.SUBASSEMBLY WELD IDENTIFICATION			COVE	RAGE		, (
CATGY ITEM NO. EXM RQT	WELD ID FIGURE WELD COMPIGURATION FRAMINATION METHOD	EXAM	NONE	I DIR ONLY	2 MB	EFF. COV.	TOTAL	LAMITATION
1 B-J B9.31 VOL/SURF	29-RC-2401-NSS 2 FIGURE NO. A-RC-4 16 IN. BRANCH CONNECTION	24/45	10	90	0	45	45	DUE TO WELD CONFIGURATION AND SIZE OF SEARCH UNIT.
101150	UTI/PT	PT	0				100	

(3.A88	- LINE NO./SURASSEMBLY - WELD IDENTIFICATION			I COVI	RAGE			
CATGY UTEM NO. EXM RQT	- WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	ERAM	NONE	I DER	2 DIR	EFF.	TOTAL	LIMITATION
1 B-J B9.31 VOL/SURF	27.5-RC-2403 4 FIGURE NO. A-RC-4 4 IN. BRANCH CONNECTION	35	15	0	85	85	85	NO UT FROM THE MAIN RUN SIDE DUE TO COMPONENT CONFIGURATION.
101745	UT/PT	PT	0				100	



1997 2RE05 ISI

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2

ASME CATEGORY C-B

SYSTEM: RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2A (CLASS 2)

CLASS	- LINE NO SUBARRENIELY WELD IDENTIFICATION		Y.	COVE	RAGE			
CATCY ITEM NO. EXM ROT	WELD ID FIGURE	EXAM TYPE	NONE	LUTE	a DAR	EFF. COV.	TOTAL	LINETATION
2 C-B C2.21 VOL/SURF	RHAHRS-2A NA FIGURE NO. B-RHX-1 NOZZLE TO SHELL	45 45T	0 62	0	100 38	100 38	69	NO UT45T ON THE WELD DUE TO WELD CONFIGURATION
305500	UTAPT	PT	0				100	

CLASS	- LINE NO BUBASSEMBLY - WELD IDENTIFICATION	1229		COVE	RAGE		Nº y	
CATGY FIEM NO. EDM ROT	- WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM	NONE	I DIR ONLY	2 DIR	EFF.	INTAL	LIMITATION
2 C-B C2.21 VOL/SURF	RHAHRS-2A NB FIGURE NO. B-RHX-1 NOZZLE TO SHELL	45 45T	0 62	0	100 38	100 38	69	LIMITED UT45T ON THE WELD SIDE DUE TO WELD CONFIGURATION.
305550	UT/PT	PT	0				100	

ASME CATEGORY C-C

SYSTEM: MAIN STEAM SYSTEM (CLASS 2)

CLASS	- LINE NO SUBASSEMBLY - WELD IDENTIFICATION	(and the second		F COVE	RACE			
CATGY IZEM NO.	- WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION MUCHOD	EXAM EXAM	NONE	I DIR ONLY	3 3	EFF. COV.	TOTAL	LIMITATION
2 C-C C3.20 SURF	30-MS-2004-GA2 28PL1-28PL8 FIGURE NO. B-MS-7,8 PIPE LUGS							LIMITED MT COVERAGE DUE TO PIPE LUG CONFIGURATION.
558925	MT	MT	46			54	54	





APPENDIX 2-E OWNER'S REPORT FOR INSERVICE INSPECTIONS NIS-1 FORMS





FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

1. Owner Houston Lighting & Power Company: Electric Tower: P.O. Box 1700; Houston, Texas 77001 (Name and Address of Owner)

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

3. Plant Unit ______ 4. Owner and Certificate of Authorization (if required) N.A.

5. Commercial Service Date 06/19/89 6. National Board Number for Unit N.A.

7. Components Inspected ASME Code Class 1 (IWB) Items - Welds Program

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Reactor Pressure Vessel	Combustion Engineering / Westinghouse (M)	12173	. 22391
Pressurizer	Westinghouse (M)	2161	19
Steam Generator 2C	Westinghouse (M)	2153	31
Steam Generator 2D	Westinghouse (M)	2154	32
Class 1 Piping	Ebasco (I)	N.A.	N.A.
Class 1 Valves	Westinghouse (I)	N.A.	N.A.
		a la faran sa an	
		-	
tanda a site of a standard and a standard and			

HL&P b Date 5. 19.97 Arkwright Mutual by ren Date 5-19-9 RL.Beverly B.R.Russell, ANII Insurance Co.

FORM NIS-1 (Back)

Examination Dates <u>1/29/97</u> to <u>2/18/97</u> 9. Inspection Interval from <u>06/19/89</u> to <u>10/18/00</u>
Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. (ASME Code Class 1 (IWB) Items - Welds Program)

See Section 2.4 and Appendix 2-A of 2RE05 Summary Report for list of examinations performed. The examinations performed this outage constitute 10% of the required examinations for the current interval. The cumulative percentage completed for the interval is 67%.

- 11. Abstract of Conditions Noted. See Section 2.5 of the 2RE05 Summary Report.
- Abstract of Corrective Measures Recommended and Taken. None.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of ASME Code, Section XI.

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

Date MAY 19 1997 Signed Houston Lighting & Power Co. By R. L. Beverly

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>Arkwright Mutual Insurance Co.</u> of <u>Norwood</u>. <u>Mass</u> have inspected the components described in this Owner's Report during the period <u>1/29/97</u> to <u>2/18/97</u>, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, express or implied, concerning the examinations and corrective measures described in this Owner's 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.

usell.

Commissions _____ Tex 826

Inspector's Signature B. R. Russell National Board, State, Province, and Endorsements

Date 5-19-1997

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

1. Owner <u>Houston Lighting & Power Company: Electric Tower: P.O. Box 1700: Houston, Texas 77001</u> (Name and Address of Owner)

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

3. Plant Unit ______ 4. Owner and Certificate of Authorization (if required) N.A.

5. Commercial Service Date 06/19/89 6. National Board Number for Unit N.A.

7. Components Inspected ASME Code Class 2 (IWC) Items - Welds Program

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Resid. Heat Removal Heat Exchanger 2A	Joseph Oat Corp. (M)	2312-4D	993
Class 2 Piping	Ebasco (I)	N.A.	N.A.
In the second			

Date 5- 19-97 HL&P by_ Date 5.19.97 Arkwright Mutual by B.R.Russell, ANII Insurance Co.

FORM NIS-1 (Back)

8. Examination Dates 10/4/96 to 2/18/97 9. Inspection Interval from 06/19/89 to 10/18/00

- 10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. (ASME Code Class 2 (IWC) Items Welds Program) See Section 2.4 and Appendix 2-A of 2RE05 Summary Report for list of examinations performed. This report includes baseline examinations performed on two replacement piping welds prior to the 2RE05 refueling outage. The examinations performed this outage constitute 13% of the required examinations for the current interval. The cumulative percentage completed for the interval is 62%.
- Abstract of Conditions Noted. None.
- Abstract of Corrective Measures Recommended and Taken. None.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of ASME Code, Section XI.

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

Date	NAY	19	19	97	Signed	Houston Lighting & Power Co.	By	an Dewrite	
	1					Owner		R.L.Beverly	

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a val. ommission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Texas</u> and employed by <u>Arkwright Mutual Insurance Co.</u> of <u>Norwood</u>. <u>Mass</u> have inspected the components described in this Owner's Report during the period <u>10/4/96</u> to <u>2/18/97</u>, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

Ey signing this certificate neither the Inspector nor his employer makes any warranty, express or implied, concerning the examinations and corrective measures described in this Owner's 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.

desgene Commissions_

issions Tex 826

National Board, State, Province, and Endorsements

Inspector's Signature B. R. Russell

Date 5-19-19 97

3.0 COMPONENT SUPPORT EXAMINATIONS

3.1 Introduction

ISI of Class 1, 2, and 3 component supports and Class 3 integral attachments of STPEGS-2 was performed between November 27, 1996 and February 11, 1997. These examinations constitute the fifth ISI (the third ISI of the second period) of the first inspection interval for the Component Supports Examination Program for STPEGS-2.

This Section of the Summary Report documents the examinations of component supports performed by HL&P QC and contractor NDE personnel in accordance with the following documents:

- HL&P Specification 5U036JS0004, "Inservice Inspection Examination of Component Supports of South Texas Project Electric Generating Station, Unit 2, First Inspection Interval",
- (2) "Examination Plan for the 1997 2RE05 Inservice Inspection of Welds and Component Supports at the South Texas Project Electric Generating Station, Unit 2 ", including changes made during the outage (Outage Plan).

The HL&P Specification provides a detailed description of the rules for exemption and selection of Class 1, 2, and 3 component supports for ISI. The 1997 Examination Plan is an individual Outage Plan for implementing ISI component support examinations as designated in the HL&P Specification.

3.2 Scope of Examinations

A total of seventy seven (77) component supports were visually examined during 2RE05.

Class 1

Seven (7) Class l piping supports and three (3) Class l equipment support were examined in the following systems:

	Piping	Equipmert
Chemical & Volume Control (CV)	1	0
Reactor Coolant (RC)	4	3
Residual Heat Removal (RH)	1	0
Safety Injection (SI)	1	0



Class 2

Twenty seven (27) Class 2 piping supports and one (1) Class 2 equipment support were examined in the following systems:

	Piping	Equipment
Auxiliary Feedwater (AF)	2	0
Containment Spray (CS)	2	0
Feedwater (FW)	1	0
Main Steam (MS)	1	0
Residual Heat Removal (RH)	6	1
Safety Injection (SI)	15	0

Class 3

Thirty four (34) Class 3 piping supports and five (5) Class 3 equipment supports were examined in the following systems:

	Piping	Equipment
Auxiliary Feedwater (AF)	6	0
Component Cooling (CC)	23	1
Diesel Generator Jacket Water (JW)	0	1
Diesel Generator Lube Oil (LU)	0	2
Essential Cooling Water (EW)	5	0
Reactor Make-Up Water	0	1

A complete list of component supports examined during 2RE05 is contained in Appendix 3-A.

These examinations constitute the following percentages of completion for Class 1, 2, and 3 component supports:

		Cumulative
	2RE05	(1st Interval)
Class 1 (IWF)	12%	58%
Class 2 (IWF)	13%	64%
Class 3 (IWF)	13%	65%

3.3 Personnel and Procedures

3.3.1 Personnel Qualifications

Component supports were visually examined (VT-3 and VT-4) by HL&P QC and contractor NDE personnel. HL&P NDE personnel were certified in accordance with ASME Section XI (IWA-2300) and HL&P Nondestructive Examination Procedure 0PQP05-ZA-0001 (Rev. 1), "Qualification and Certification of Nondestructive Examination Personnel". Contractor NDE personnel were certified in accordance with ASME Section XI (IWA-2300) and their employer's written practice, which was approved by HL&P. A listing of the personnel who performed visual examinations of component supports, including their certification level, is included in Appendix 3-B.

3.3.2 Examination Procedure

Visual (VT-3 and VT-4) examinations of component supports were performed in accordance with 0PQP05-ZA-0023 (Rev. 1), "Visual Examination of Component Supports for ASME XI Inservice Inspection".

3.4 Summary of Examinations

Sixty eight (68) piping supports and nine (9) equipment supports were examined during 2RE05 as shown in Appendix 3-A.

3.4.1 Examination Results and Corrective Actions

The visual examinations performed on component supports during 2RE05 did not reveal any relevant conditions. Therefore, no corrective actions were required.

3.4.2 Additional and Successive Examinations

The results of the visual examinations of component supports performed during 2RE05 did not require that any additional examinations (IWF-2430) be performed or any successive examinations (IWF-2420) be scheduled.

3.5 Certification of Inspections

Section XI NIS-1 forms, "Owner's Report for Inservice Inspections", have been prepared to certify the STPEGS-2 component support ISI examinations described in this section of the Summary Report. The STPEGS-2 component support ISI examinations have been certified by our ANII, Arkwright Mutual Insurance Company, on the NIS-1 forms included in Appendix 3-C.

APPENDIX 3-A

SUMMARY OF EXAMINATIONS

EXAMINATION RESULTS LEGEND

C Examination for Section XI Scheduling Credit

DATE: 05/19/97 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 1 SECTION XI COMPLETE COMPONENTS

PAGE: 1

CHEMICAL&VOLUME CONTROL 1

					N		0	
		ASME			0	G	т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
	***************************************	****	$X \in \mathcal{R} \times \mathcal{C} \times \mathcal{A} \times \mathcal{A}$			146		
	2-CV-2141-BB1-A-A1							
101700	CV-2141-HS5007	PIPING-1	VT-3	ZA-0023 R1	С			EXAMINED WHEN STILLED
	SH-V	*	VT-4	ZA-0023 R1	C		5	BARNING RALL FILLED,

DATE: 05/19/97 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 1 SECTION XI COMPLETE COMPONENTS

PAGE: 2

REACTOR COOLANT 1

EUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	exam Method	PROCEDURE	N O R E C	GEOM -	O T H E R	REMARKS **CALIBRATION BLOCK**
105300	<u>5-RC-2003-BB1-A</u> RC-2003-HL5004 RR	PIPING-1	VT-3	ZA-0023 R1	с			
105400	RC-2003-HL5005 SH-V	PIPING-1	VT-3 VT-4	ZA-0023 R1 ZA-0023 R1	c		x 1	EXAMINED WHEN FILLED.
105500	RC-2003-HL5007 RR	PIPING-1 -	VT-3	ZA-0023 R1	c	*	•	
105600	RC-2003-RR06 RR	PIPING-1	VT-3	ZA-0023 R1	с		-	









DATI: 05/19/97 REVISION: 0

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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 1 SECTION XI COMPLETE COMPONENTS

RESTOUAL HEAT REMOVAL 1

					IN		0	
		ASME			0	G	т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
****				***********			100	***************************************

8-RH-2208-BB1-A

114600 RH-2208-HL5004 RR PIPING-1 VT-3 ZA-0023 R1 C - -

ъ.




SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 1 SECTION XI COMPLETE COMPONENTS

SAFETY INJECTION 1

					24		~	
		ASME			0	G	Т	
		SEC. XI			R	E	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
*******		*****	****	***********	181	1.00	4	***************************************

8-SI-2208-BB1-B

115800 SI-2208-HL5003 RR

-

PIPING-1 VT-3 ZA-0023 R1 C - -





4

DATE :	05/19/97	SOUTH TEXA	S PROJECT	ELECTRIC GENERATI	NG ST	ITA	ON U	INIT 2 PAGE: 5
REVISIO	ON : 0	INSER	VICE INSPI	SCTION PLAN - 2REO	5 (SU	PPO	RTS)	
		FIRST IN	TERVAL, SI	SCOND PERIOD, THIR	D OUT	AGE	(97	(RF)
		CL	ASS 1 SEC	TION XI COMPLETE C	COMPON	ENT	S	
REACTOR	COOLANT 1							
					N		0	
		ASME			0	G	т	
		SEC. XI			R	Е	Н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Ē	0	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
	********************		*******		- ÷	÷	~	
	1R112NPZ101A							
117000	PRU3	EQUIP-1	VT-3	ZA-0023 R1	с			AS VIEWED FROM ABOVE, THE THIRD SUPPORT
	RC PRES UPPR							CLOCKWISE FROM THE SUPPORT NEAREST THE REACTOR VESSEL.
	1R132NPP101B							
120500	RPRIB	EQUIP-1	VT - 3	ZA-0023 R1	с			AS VIEWED FROM ABOVE, THE TIE ROD
	RC PUMP RODS							SUPPORT IMMEDIATELY CLOCKWISE FROM THE DISCHARGE NOZZLE ON REACTOR COOLANT PUMP B.
120500	RPR2B	EQUIP-1	VT - 3	ZA-0023 R1	с		-	AS VIEWED FROM ABOVE, THE TIE ROD
	RC PUMP RODS							SUPPORT IMMEDIATELY CLOCKWISE FROM RPR1B.





SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RED5 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 2 SECTION XI COMPLETE COMPONENTS

AUXILIARY FEEDWATER 2

					N		0	
		ASME			0	G	T	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	в	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
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	8-AF-2012-GA2-D							
205200	AF-2012-HL5026	PIPING-2	VT - 3	ZA-0023 R1	с	-	÷	
	RR	-						
	8-AF-2012-GA2-E							
	And the second							

205300 AF-2012-HL5029 PIPING-2 VT-3 ZA-0023 R1 C - -RR 1







6

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 2 SECTION XI COMPLETE COMPONENTS

CONTAINMENT SPRAY 2

5						N		0	
			ASME			0	G	т	
			SEC. XI			R	Е	н	
	SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS
	NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
	******	******	***	******	******	*	*	*	*******************************
		6-CS-2303-PB2-A							
	216700	CS-2303-HL5002 RR	PIPING-2	VT-3	ZA-0023 R1	с	-		
	216800	CS-2303-HL5003	PIPING-2	VT-3	ZA-0023 R1	с			

RR





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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 2 SECTION XI COMPLETE COMPONENTS PAGE: 8

FEED WATER 2

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		ASME			0	G	т	
		SEC. XI			1	E	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		ž	0 3	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE		. M	R	**CALIBRATION BLOCK**
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	3.0 KM 2016 (782 U							

<u>18-FW-2016-GA2-H</u>

220500 FW-2016-HL5005 PIPING-2 VT-3 ZA-0023 R1 C - - RR -

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 2 SECTION XI COMPLETE COMPONENTS PAGE :

9

MAIN STEAM 2

					N		0	
		ASME			0	G	т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
*****	******************************	******	*****	*********		×	*	***************************************
	30-MS-2003-GA2-C							
225900	MS-2003-HL5011	PIPING-2	VT-3	ZA-0023 R1	С		~	
	SH-V		VT-4	ZA-0023 R1	С			

DATE: REVISI	05/19/97 (ON: 0	SOUTH TEXA INSER FIRST IN	S PROJECT I VICE INSPEC TERVAL, SEC	ELECTRIC GENERATING TION PLAN - 2RE05 COND PERIOD, THIRD	G ST (SU OUI	ATI	ON RTS (9	UNIT 2 PAGE: 1) 7RF)
RESIDUA	L HEAT REMOVAL 2	CL	ASS 2 SECT.	ION XI COMPLETE CO	MPON	CEN I	5	
					N	÷.	0	
		ASME			O P	G	T	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	KEMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
*****	******************************		********		. *	*	.*	***************************************
	<u>8-RH-2106-KB2-C</u>							
233300	RH-2106-RR03	PIPING-2	VT - 3	ZA-0023 R1	С		*	
	RR	-						
	<u>B-RH-2111-BB2-A</u>							
224000	PU 2111 UT 6001	DTDTM/L 3	UPP . 3	78.0023.01	~			
234000	RR	-	V1-3	2A-0023 R1				
	8-RH-2204-KB2-C							
235700	RH-2204-HL5004	PIPING-2	VT-3	ZA-0023 R1	С			
	RR							
225800	DU. 2304 DB04	DYDTNO O	100 - 2	28, 0025 D1	~			
200000	RR	-	¥1-3	2A-0023 R1	C			
	8-RH-2205-KB2-D							
237600	RH-2205-HL5010	PIPING-2	VT-3	ZA-0023 R1	C		ų.	EXAMINED WHEN FILLED.
	SH-V	•	VT-4	ZA-0023 R1	с		-	
237700	RH-2205-HL5011	PIPING-2	VT-3	ZA-0023 R1	с			
	GUIDE							

REVISI	ON: 0	INSER FIRST IN CL	SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 2 SECTION XI COMPLETE COMPONENTS									
SAFETY	INJECTION 2											
		ASME			N		O T					
		SEC. XI			R	E	н					
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS				
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	24-SI-2101-UB2-E											
244700	SI-2101-SH10	PIPING-2	VT-3	ZA-0023 R1	с			EXAMINED WHEN FILLED.				
	SH-V (2)		VT-4	ZA-0023 R1	с	-	•					
	8-SI-2102-PB2-D											
255000	PT 2102 BU07	DIDING 9	100.0	78,0022,01	~							
255000	SI-2102-KH07	FIFING-2	V1-3	ZA-0023 KI	C	1						
	<u>B-SI-2102-PB2-E</u>											
255100	SI-2102-HL5001	PIPING-2	VT - 3	ZA-0023 R1	С							
	RR											
255200	SI-2102-HL5004 RR	PIPING-2	VT-3	ZA-0023 R1	С		Ĩ.					
	<u>8-SI-2105-KB2-G</u>											
256400	SI-2105-RR26	PIPING-2	VT-3	ZA-0023 R1	c							
	RR	*										
	<u>8-SI-2105-KB2-H</u>											
256500	SI-2105-RR27	PIPING-2	VT - 3	ZA-0023 R1	с							
	RR											
256600	SI-2105-RR28	PIPING-2	VT-3	ZA-0023 R1	C							

DATE: REVISI	05/19/97 ION: 0	SOUTH TEXA INSER FIRST IN CL	S PROJECT VICE INSP TERVAL, S ASS 2 SEC	ELECTRIC GENERAT: ECTION PLAN - 2RE ECOND PERIOD, THI TION XI COMPLETE (ING ST 05 (SU RD OUT COMPON	ATI PPO AGE ENT	ON 1 RTS (9)	JNIT 2 PAGE: 12) 7RF)
SAFETY	INJECTION 2							
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		SEC. XI			R	Е	Н	
SUMMARY	Y EXAMINATION AREA	CATGY	EXAM		E	0	Е	REMARKS
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	<u>8-SI-2105-KB2-J</u>							
256700	SI-2105-HL5001	PIPING-2	VT-3	ZA-0023 R1	с			
	RR							
220600	RR	PIPING-2	VI-3	2A-0023 KI	c		1	
	<u>8-SI-2105-KB2-K</u>							
256900	SI-2105-RR31	PIPING-2	VT-3	ZA-0023 R1	C			
	RR	*						
257000	ST. 2146.0032	PTPING-2	VT. 3	78-0023 P1	~			
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	<u>8-51-2105-KB2-R</u>							
257800	SI-2105-SH39	PIPING-2	VT-3	ZA-0023 R1	с			EXAMINED WHEN FILLED.
	SH-V (2)		VT-4	ZA-0023 R1	С		÷.,	
	6-51-2106-DB2-M							
265700	SI-2106-RR63	PIPING-2	VT - 3	ZA-0023 R1	С	*	×	
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	6-51-2106-D82-Q							
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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 2 SECTION XI COMPLETE COMPONENTS

PAGE: 13

SAFETY INJECTION 2

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		ASME			0	G	т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	Е	REMARKS
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2-SI-2139-DB2-A-A1

278300 SI-2139-HF5001 PIPING-2 VT-3 ZA-0023 R1 C - -GUIDE -

RH HTX SUPT

SOUTH	TI	EXAS	PRO	JECT	ELE	CTRI	C GE	NERAT	TING	STATIC	N UNIT	2
	INS	SERVI	CE	INSP	ECTIC	ON PI	LAN	- 2RE	205	(SUPPOR	TS)	
FIR	ST	INTE	RVA	L, S	ECON	D PE	RIOD	, THI	IRD	OUTAGE	(97RF)	
		CLAS	15 2	SEC	TION	XI	OMP	LETE	COM	PONENTS		

PAGE: 14

SUPPORT ON RHR HEAT EXCHANGER A.

RESIDUAL HEAT REMOVAL 2

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283000	RHULA	EQUIP-2	VT-3	ZA-0023 R1	С	-	4	AS VIEWED FROM ABOVE, THE LONGER UPPER
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DATE: 05/19/97 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 REVISION: 0 INSERVICE INSERVICE INSERVICE INSERVICE PAGE: 15 FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 3 SECTION XI COMPLETE COMPONENTS AUXILIARY FEEDWATER 3 N O ASME OGT SEC. XI REH CATGY EXAM
 SUMMARY EXAMINATION AREA
 CATGY
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 NUMBER IDENTIFICATION
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 CALIBRATION BLOCK
 12-AF-2054-WA3-E 300100 AF-2054-HL5002 PIPING-3 VT-3 ZA-0023 R1 C - -GUIDE 1 A 1 12-AF-2054-WA3-F 300300 AF-2054-HL5005 PIPING-3 VT-3 ZA-0023 R1 C - -GUIDE 12-AF-2054-WA3-G PIPING-3 VT-3 ZA-0023 R1 C - -300400 AF-2054-HLS006 GUIDE 12-AF-2054-WA3-H 300600 AF-2054-HL5008 PIPING-3 VT-3 ZA-0023 R1 C - -GUIDE 1.5-AF-2053-GA3-AA03

316600 AF-2053-HF5001 PIPING-3 VT-3 ZA-0023 R1 C - -U-BOLT -

1.5-AF-2053-GA3-BA03

316700	AF-2053-HF5002	PIPING-3 VT-3	ZA-0023 R1	C
	RR			

DATE: 05/19/97 REVISION: 0 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 PAGE : 16 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 3 SECTION XI COMPLETE COMPONENTS COMPONENT COOLING 3 N O ASME OGT SEC. XI REH CATGY EXAM SUMMARY EXAMINATION AREA E O E REMARKS ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK** NUMBER IDENTIFICATION 24-CC-2101-WA3-B
 319800
 CC-2101-HL5003
 FIPING-3
 VT-3
 ZA-0023
 R1
 C
 EXAMINED WHEN FILLED.

 SH-V
 (2)
 VT-4
 ZA-0023
 R1
 C
 16-CC-2106-WA3-D 334500 CC-2106-HL5007 PIPING-3 VT-3 ZA-0023 R1 C - -GUIDE 16-CC-2106-WA3-F PIPING-3 VT-3 ZA-0023 P1 C - -334900 CC-2106-HL5004 GUIDE 16-CC-2106-WA3-H FIFING-3 VT-3 ZA-0023 R1 C - -335800 CC-2106-RR16 GUIDE 14-CC-2114-WA3-A 344500 CC-2114-HL5005 PIPING-3 VT-3 ZA-0023 R1 C - -RR 14-CC-2120-WA3-B
 PIPING-3 VT-3
 ZA-0023 R1
 C - EXAMINED WHEN FILLED.

 VT-4
 ZA-0023 R1
 C - 345200 CC-2120-HL5003

SH-V

DATE: REVISI	05/19/97 CON: 0	SOUTH TEXAS INSERVI FIRST INTE CLAS	PROJECT ELECTRIC GENERATI CE INSPECTION PLAN - 2REO RVAL, SECOND PERIOD, THIR	NG ST	ATIC PPOR AGE	N (97	JNIT 2) /RF)	PAGE :	17
COMPONE	ENT COOLING 3	Cuno	a 3 SECTION AT COMPLETE C	OMPON	ENTS	9			
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		ASME		0	G	T			
SUMMARY	EXAMINATION APEA	SEC. AI	VAM	R	E	H			
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	10-CC-2114-WA3-C								
350200	CC-2114-PR26	DIDING 5 V	T-3 28.0003.01	~					
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350300	CC-2114-RR27	PIPING-3 V	T-3 ZA-0023 R1	с					
	RR								
350400	CC-2114-RR28	PIPING-3 V	T-3 ZA-0023 R1	с					
	RR								
350500	CC-2114-RR29	PIPING-3 V	T-3 ZA-0023 R1	c					
	RR								
9	10.00 3114 MB3 D								
	10-00-2114-RAS-D								
350600	CC-2114-RR24	PIPING-3 V	T-3 ZA-0023 R1	С		•			
	RR	•							
350700	RR	PIPING-3 V	T-3 ZA-0023 RI	С					
	10-CC-2114-WA3-E								
350900	CC-2114-HL5004	PIPING-3 V	T-3 ZA-0023 R1	с					
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COMPON	ENT COOLING 3								
					N		0		
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		SEC. XI			R	E	H		
SUMMARY	Y EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS	
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			********		7		1	************************	*****
	10-CC-2114-WA3-E								
351100	CC-2114-RR23	PIPING-3	VT-3	ZA-0023 R1	C				
	RR								
	10-CC-2114-WA3-F								
351200	CC-2114-HL5002	PIPING-3	VT-3	ZA-0023 R1	¢		1		
351300	CC-2114-RR18	PIPING-3	VT-3	ZA-0023 R1	с				
	RR								
	10-CC-2114-WA3-G								
351400	DE 000	FIFING-3	VI-3	ZA-0023 R1	C	1	1		
351500	CC-2114-RR15	PIPING-3	VT-3	ZA-0023 R1	с				
	RR	<i>.</i> *							
	10-00-2114-883-5								
	AR COLLEGAL MOREN								
351800	CC-2114-RR10	PIPING-3	VT-3	ZA-0023 R1	C	-			
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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 3 SECTION XI COMPLETE COMPONENTS

COMPONENT COOLING 3

		ASME SEC. XI			NORS	G E	O T H	
NUMBER	IDENTIFICATION	TTEM NO	METHOD	PROCEDURE	C	M	8	*CALTERATION BLOCK**
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	10-CC-2114-WA3-K							
352100	CC-2114-RR08 RR	PIPING-3	VT-3	ZA-0023 R1	с			
352200	CC-2114-RR09 RR	PIPING-3	VT-3	ZA-0023 R1	с			

10-CC-2115-WA3-X

355600	CC-2115-RR01	PIPING-3 VT-3	ZA-0023 R1	C
	GUIDE	-		





DATE: 05/19/97 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UN REVISION: 0 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 PAGE : 20 FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 3 SECTION XI COMPLETE COMPONENTS ESSENTIAL COOLING WATER 3 N O ASME OGT SEC. KI REH SUMMARY EXAMINATION AREA CATGY EXAM E O E REMARKS MUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK** 30-EW-2105-WT3-A 380100 EW-2105-HL5004 PIPING-3 VT-3 ZA-0023 R1 C - -RR . . . 6-EW-2125-WT3-B1 PIPING-3 VT-3 ZA-0023 R1 C - -418300 EW-2125-HL5005 GUIDE 1.4 418400 EW-2125-HL5009 PIPING-3 VT-3 ZA-0023 R1 C - -GUIDE 418500 EW-2125-HL5010 PIPING-3 VT-3 ZA-0023 R1 C - -GUIDE

6-EW-2125-WT3-BA

418600	EW-2125-HL5004	PIPING-3 VT-3	ZA-0023 R1	C
	GUIDE	*		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 3 SECTION XI COMPLETE COMPONENTS

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COMPONENT COOLING 3

					N		0	
		ASME			0	G	т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
(n,m,m,m,m,m,m,m)	************************	******	********	***********	-	+		******
	3R202NHX201A							
428600	CCX1A	EQUIP-3	VT-3	ZA-0023 R1	С	÷	*	THE SUPPORT LOCATED AT THE EAST END OF
	CC CLG HTX	-						COW UPAT EXCUANCED &

SOUTH TEXAS FROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 3 SECTION XI COMPLETE COMPONENTS

DIESEL JACKET WATER 3

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		SEC. XI			R	Е	Н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Е	0	Е	REMARKS
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		******		***********	1.			***************************************

30152MSA0134

432100 JW1A JW PIPE SUPT EQUIP-3 VT-3

-

ZA-0023 R1

C - - THE PIPE SUPPORT LOCATED DOWNSTREAM OF JACKET WATER STANDBY PUMP DISCHARGE.





SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 3 SECTION XI COMPLETE COMPONENTS

DIESEL LUBE OIL 3

					N		Q	
		ASME			0	G	т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	B	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
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	30152MPU0134							
433900	LCP1A	EQUIP-3	VT-3	ZA-0023 R1	С	+	2	BASE SUPPORT ON LUBE OIL CIRC. PUMP A.
	LU CIRC PUMP	1997 - S.						
	30152MSA0134							

 434900
 LUF1A
 EQUIP-3
 VT-3
 ZA-0023
 R1
 C - SINGLE BASE SUPPORT ON LUBE OIL FILTER

 LU FILTER
 A.





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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 2 INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF) CLASS 3 SECTION XI COMPLETE COMPONENTS

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REACTOR MAKE-UP WATER 3

					N		0	
		ASME			0	G	т	
		SEC. XI			R	Е	н	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	Е	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
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	3R272NTF101A							
439000	.MBTI RC MK-UP TNK	EQUIP-3	VT - 3	ZA-0023 R1	С	÷		SINGLE BASE SUPPORT ON REACTOR MAKE-UP WATER STORAGE TANK.

APPENDIX 3-B PERSONNEL

APPENDIX 3-B

PERSONNEL

Name	Company	Level
Graham, J.	SSI	Π
Suhler, C.	HL&P	Π



APPENDIX 3-C

OWNER'S REPORT FOR INSERVICE INSPECTIONS NIS-1 FORMS 1997 ISI - 2RE05 - Component Supports (Class 1)

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

1. Owner Houston Lighting & Power Company; Electric Tower; P.O. Box 1700; Houston, Texas 77001 (Name and Address of Owner)

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

3. Plant Unit ______ 4. Owner and Certificate of Authorization (if required) N.A.

5. Commercial Service Date 06/19/89 6. National Board Number for Unit N.A.

7. Components Inspected ASME Code Class 1 - Component Supports Program

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Pressurizer Reactor Coolant	Westinghouse (M)	2161	19
Pump 2B Class 1	Westinghouse (I)	1081-1163E26G01-14	N.A.
Piping Supports	Ebasco (I)	N.A.	N.A.
	an and the second s		1

all Date 5-19-97 Date 5-19.97 Arkwright Mutual by c HL&P Insurance Co. B.R.Russell,ANII Beverly

FORM NIS-1 (Back)

8. Examination Dates 2/9/97 to 2/10/97 9. Inspection Interval from 06/19/89 to 10/18/00

- 10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. (ASME Code Class 1 Component Supports - Plying and Equipment) See Section 3.4 and Appendix 3-A of 2RE05 Summary Report fo. list of examinations performed. The examinations performed this outage constitute 12% of the required examinations for the current interval. The cumulative percentage completed for the interval is 58%.
- 11. Abstract of Conditions Noted. None.
- 12. Abstract of Corrective Measures Recommended and Taken. None.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of ASME Code, Section XI.

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

Date MAY 19 19 97 Signed Houston Lighting & Power Co. By Ar Ground Owner RL.Beverly

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 Arkwright Mutual Insurance Co. of Norwood, Mass have inspected the components described in this Owner's Report during the period 2/9/97 to $\frac{2}{10/97}$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warrapty, express or implied, concerning the examinations and corrective measures described in this Owner's 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 apising from or connected with this inspection.

Lunal Commissions

Inspector's Signature B. R. Russell

Tex 826 National Board, State, Province, and Endorsements

Date 5-19- 1997



1997 ISI - 2RE05 - Component Supports (Class 2)

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

1. Owner <u>Houston Lighting & Power Company: Electric Tower: P.O. Box 1700; Houston, Texas 77001</u> (Name and Address of Owner)

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

3. Plant Unit ______ 4. Owner and Certificate of Authorization (if required) N.A.

5. Commercial Service Date 06/19/89 6. National Board Number for Unit N.A.

7. Components Inspected ASME Code Class 2 - Component Supports Program

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
RHR Heat Exchanger 2A	Joseph Oat Corp. (M)	2312-4D	993
Piping Supports	Ebasco (I)	N.A.	N.A.
a da an shekara a sa			
light a second contract of			
			57 al 16 al 16

mace Date 5-19-97 Date 5.19.97 Arkwright Mutual by HL&P by B.R.Russell,ANII Insurance Co.

FORM NIS-1 (Back)

8. Examination Dates 11/27/96 to 2/11/97 9. Inspection Interval from 06/19/89 to 10/18/00

- 10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. (ASME Code Class 2 Component Supports Piping and Equipment) See Section 3.4 and Appendix 3-A of 2RE05 Summary Report for list of examinations performed. The examinations performed this outage constitute 13% of the required examinations for the current interval. The cumulative percentage completed for the interval is 64%.
- Abstract of Conditions Noted. None.
- Abstract of Corrective Measures Recommended and Taken. None.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of ASME Code, Section XI.

Certificate of Authorization No.(if applicable) <u>N.A.</u> Expiration Da	te <u>N.A.</u>
Date MAY 19 1997 Signed Houston Lighting & Power Co. By Owner	RL.Beverly

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>Arkwright Mutual Insurance Co.</u> of <u>Norwood</u>, <u>Mass</u> have inspected the components described in this Owner's Report during the period <u>11/27/96</u> to <u>2/11/97</u>, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, express or implied, concerning the examinations and corrective measures described in this Owner's 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.

findle

Commissions To

Inspector's Signature B. R. Russell s Tex 826 National Board, State, Province, and Endorsements

5-19-1997 Date

1997 ISI - 2RE05 - Component Supports (Class 3)

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

1. Owner <u>Houston Lighting & Power Company: Electric Tower: P.O. Box 1700; Houston, Texas 77001</u> (Name and Address of Owner)

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

3. Plant Unit ______ 4. Owner and Certificate of Authorization (if required) ______N.A.

5. Commercial Service Date 06/19/89 6. National Board Number for Unit N.A.

7. Components Inspected ASME Code Class 3 - Component Supports Program

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Comp. Cooling Water	nersennen. Terret in annel anter standarder (- of forest surveysed)		
Heat Exch. 2A Jacket Water	Ebasco(I)	N.A.	N.A.
Pipe Support Lube Oil	Ebasco(I)	N.A.	N.A.
Circ. Pump	Ebasco(I)	N.A.	N.A.
Lube Oil Filter Reactor Coolant	Ebasco(I)	N.A.	N.A.
Makeup Tank Class 3	Ebasco(I)	N.A.	N.A.
Piping Supports	Ebasco(I)	N.A.	N.A.
		- And Soundary Principalities African and American Principalities and	
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			703634

new Date 5-19-97 Maly Date 5. 19.97 Arkwright Mutual by HL&P by B.R.Russell,ANII Insurance Co. R.L.Beverly

FORM NIS-1 (Back)

- 8. Examination Dates <u>11/27/96</u> to <u>2/9/97</u> 9. Inspection Interval from <u>06/19/89</u> to <u>10/18/00</u>
- 10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. (ASME Code Class 3 Component Supports Piping and Equipment) See Section 3.4 and Appendix 3-A of 2RE05 Summary Report for list of examinations performed. The examinations performed this outage constitute 13% of the required examinations for the current interval. The cumulative percentage completed for the interval is 65%.
- Abstract of Conditions Noted. None.
- Abstract of Corrective Measures Recommended and Taken. None.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of ASME Code, Section XI.

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

Date MAY 19 19 97 Signed Houston Lighting & Power Co. By Az Acuraly Owner RL.Beverly

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>Arkwright Mutual Insurance Co.</u> of <u>Norwood</u>. <u>Mass</u> have inspected the components described in this Owner's Report during the period <u>11/27/96</u> to <u>2/9/97</u>, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, express or implied, concerning the examinations and corrective measures described in this Owner's 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.

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____ Commissions _____ Tex 826

National Board, State, Province, and Endorsements

Inspector's Signature B. R. Russell

Date 5-19-19 97