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

Prepared by: R. L. Beverly 5-19-97
R. L. Beverly — Date
ISI Engineer - Welds & Component Supports

Reviewed by: C. A. Murry 5/19/97
C. A. Murry — Date
Supervisor - Section XI Section

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1.0 2RE05 SUMMARY REPORT

1.1 Introduction

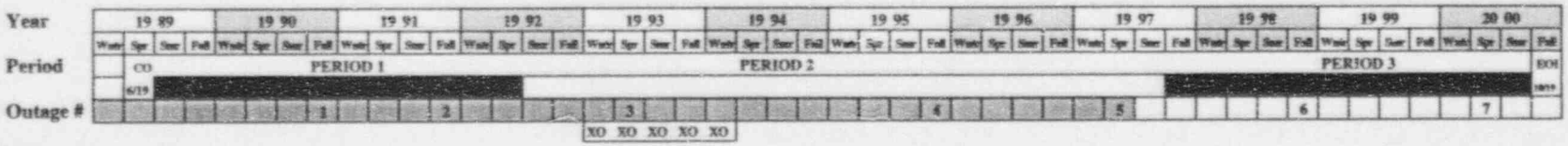
This Summary Report describes Houston Lighting & Power Company's (HL&P) inservice inspection (ISI) of selected Class 1, 2, and 3 components of the South Texas Project Electric Generating Station, Unit 2 (STPEGS-2) performed prior to and during the fifth refueling outage (2RE05) of STPEGS-2 during the 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 10CFR50.55a, 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-1) 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 bases as specified in the Ten Year ISI Plan.

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



CO - Commercial Operation
EOI - End of Interval
XO - Extended outage from February 3, 1993 to May 30, 1994
Note: Some percentage completion data, for outages prior to 2RE04, have been corrected to document only those examinations performed for Section XI credit.

PERIOD 1 Minimun 16 %
PERIOD 1 Maximum 34 %

PERIOD 1 SUMMARY	% Comp.
Welds Program	29 %
Comp. Spts Program	25 %

PERIOD 2 Minimun 50 %
PERIOD 2 Maximum 67 %

Refueling Outage	3	4	5	Cum
PERIOD 2 (In Progress)	% Comp.	% Comp.	% Comp.	% Comp.
Welds Program	12 %	13 %	11 %	65 %
Supports Program	13 %	13 %	13 %	64 %

FIGURE 1

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:

(1) "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:

	2RE05	Cumulative (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 bolting degradation. The leaks were not active and no repairs or rework was required. No further sample expansion was required. 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.

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

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	VESSEL INTERIOR (FIG NO A-RPV-1, 2)							
006200	VESSEL INTERIOR	B-N-1 B13.10	RVT3	ZA-0024 R1	C	-	-	USING A REMOTE VIDEO CAMERA, EXAMINED THE SPACE ABOVE AND BELOW THE REACTOR CORE THAT IS MADE ACCESSIBLE FOR EXAMINATION BY REMOVAL OF COMPONENTS.

PRESSURIZER

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OG EM	OTH ER	REMARKS **CALIBRATION BLOCK**
	NOZZLE TO SAFE-END AND SAFE-END TO NOZZLE WELDS (FIG NO A-PRZ-1)							
011700	PRZ-2-N1-SE	B-F	PT	ZA-0012 R2	C	-	-	
	SURGE NOZZLE	B5.40	UT	UTI-001 R3	C	-	-	
			UT	UTI-005 R3	C	-	-	
								CSCL-71/SS-72
011800	PRZ-2-N2-SE	B-F	PT	ZA-0012 R2	C	-	-	
	SPRAY NOZZLE	B5.40	UT	UTI-001 R3	C	-	-	
			UT	UTI-005 R3	C	-	-	
								CSCL-69/SS-70
	INTEGRAL ATTACHMENTS (FIG NO A-PRZ-1)							
012460	PZR-2-4A,4B	B-H	PT	ZA-0012 R2	C	-	-	
	SUPPORT BRACKET	B8.20						

STEAM GENERATOR 2C (PRIMARY SIDE)

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	O G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	NOZZLE TO VESSEL LOWER HEAD WELDS (FIG NO A-SG-1)							
017200	SG-2C-IN INLET NOZZLE TO CHANNEL HEAD CAP	B-D B3.130	UT UT	UTI-004 R3 UTI-017 R2	C C	-	-	**CSCL-89**
017300	SG-2C-ON CHANNEL HEAD CAP TO OUTLET NOZZLE	B-D B3.130	UT UT	UTI-004 R3 UTI-017 R2	C C	-	-	**CSCL-89**
	NOZZLE INSIDE RADIUS SECTION (FIG NO A-SG-1)							
017400	SG-2C-IN-IR INLET NOZZLE INSIDE RADIUS SECTION	B-D B3.140	UT	UTI-016 R1	C	-	-	**CSCL-41**
017500	SG-2C-ON-IR OUTLET NOZZLE INSIDE RADIUS SECTION	B-D B3.140	UT	UTI-016 R1	C	-	-	**CSCL-41**

STEAM GENERATOR 2D (PRIMARY SIDE)

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	MANWAY BOLTING (FIG NO A-SG-2)							
018900	SG-2D-OMB OUTLET MANWAY BOLTING	B-G-2 B7.30	VT-1	ZA-0024 R1	B	-	-	PERFORMED BASELINE VISUAL EXAMINATION ON REPLACEMENT BOLT NO. 9 ONLY, PRIOR TO INSTALLATION.

REACTOR COOLANT SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR E C	OGE M	OTH R	REMARKS **CALIBRATION BLOCK**
	31-RC-2202-NSS - LOOP 2 (FIG NO A-RC-2)							
100260	9	B-J	PT	ZA-0012 R2	C	-	-	
	ELBOW TO REACTOR COOLANT PUMP	B9.11	UT	UTI-018 R1	-	C	-	
								CSS-80
	31-RC-2302-NSS - LOOP 3 (FIG NO A-RC-3)							
100360	1	B-F	PT	ZA-0012 R2	C	-	-	
	SG OUTLET NOZZLE TO ELBOW	B5.130	UT	UTI-018 R1	C	-	-	
			UT	UTI-005 R3	C	-	-	
								CS-78/SS-79/CSS-80
100410	6	B-J	PT	ZA-0012 R2	C	-	-	
	3-IN. BRANCH CONNECTION	B9.32						
100440	9	B-J	PT	ZA-0012 R2	C	-	-	
	ELBOW TO REACTOR COOLANT PUMP	B9.11	UT	UTI-018 R1	-	C	-	
								CSS-80
	31-RC-2402-NSS - LOOP 4 (FIG NO A-RC-4)							
100580	5	B-J	PT	ZA-0012 R2	C	-	-	
	3-IN. BRANCH CONNECTION	B9.32						
100620	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)							
101040	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	-	-	
								CS-78/SS-79/CSS-80

REACTOR COOLANT SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	29-RC-2401-NSS - LOOP 4 (FIG NO A-RC-4)							
101150	2	B-J	PT	ZA-0012 R2	-	-	C	THE 3/16 INCH LONG LINEAR INDICATION
	16-IN. BRANCH CONNECTION	B9.31	UT	UTI-018 R1	C	-	-	DETECTED BY A LIQUID PENETRANT SURFACE
			UT	UTI-030 R0	C	-	-	EXAMINATION DURING PSI WAS VERIFIED BY A PT EXAMINATION DURING 2RE05. 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	C	-	-	
	12-IN. BRANCH CONNECTION	B9.31	UT	UTI-018 R1	C	-	-	
								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-IN. BRANCH CONNECTION	B9.31	UT	UTI-030 R0	C	-	-	
								SS-77
	16-RC-2412-NSS (FIG NO A RC-5)							
101860	1	B-J	PT	ZA-0012 R2	C	-	-	
	SAFE END TO BENT PIPE	B9.11	UT	UTI-001 R3	-	C	-	
								SS-16
101880	2	B-J	PT	ZA-0012 R2	C	-	-	
	BENT PIPE TO ELBOW	B9.11	UT	UTI-001 R3	-	C	-	
								SS-16

INSERVICE INSPECTION PLAN - 2RE05 (WELDS)
FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF)
CLASS 1 CLABWE STATUS COMPONENTS

REACTOR COOLANT SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	16-RC-2412-NSS (FIG NO A-RC-5)							
101890	3	B-J	PT	ZA-0012 R2	C	-	-	
	ELBOW TO PIPE	B9.11	UT	UTI-001 R3	-	C	-	
								SS-16
101900	4	B-J	PT	ZA-0012 R2	C	-	-	
	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	C	-	-	
	PIPE TO PIPE	B9.11	UT	UTI-001 R3	-	C	-	
								SS-21
102960	11	B-J	PT	ZA-0012 R2	C	-	-	
	PIPE TO VALVE	B9.11	UT	UTI-001 R3	-	C	-	
			UT	UTI-005 R3	-	C	-	
								SS-21
	12-RC-2322-BB1 (FIG NO A-RC-11)							
103060	1	B-J	PT	ZA-0012 R2	C	-	-	
	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	C	-	-	
	PIPE TO BRANCH CONNECTION	B9.11	UT	UTI-001 R3	-	C	-	
			UT	UTI-005 R3	-	C	-	
								SS-21

REACTOR COOLANT SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	2-RC-2321-BB1 (FIG NO A-RC-10)							
109600	1 REDUCING TEE TO BENT PIPE	B-J B9.40	PT	ZA-0012 R2	C	-	-	
109630	2 BENT PIPE TO VALVE	B-J B9.40	PT	ZA-0012 R2	C	-	-	

CHEMICAL AND VOLUME CONTROL SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	4-CV-2118-BB1 (FIG NO A-CV-2)							
150220	1	B-J	PT	ZA-0012 R2	C	-	-	
	VALVE TO PIPE	B9.11	UT	UTI-005 R3	C	-	-	
								SS-7
150240	2	B-J	PT	ZA-0012 R2	C	-	-	A PLANAR REFLECTOR LOCATED WITHIN THE
	PIPE TO VALVE	B9.11	UT	UTI-005 R3	-	-	C	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	-	-	
	BENT PIPE TO VALVE	B9.21						
	2-CV-2124-BB1 (FIG NO A-CV-5)							
152320	5	B-J	PT	ZA-0012 R2	C	-	-	
	VALVE TO PIPE	B9.21						
152400	9	B-J	PT	ZA-0012 R2	C	-	-	
	REDUCING TEE TO 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 INSPECTION CREDIT TAKEN BECAUSE WELD WAS EXAMINED PREVIOUSLY IN PERIOD 1. NO FURTHER SAMPLE EXPANSION REQUIRED.

CHEMICAL AND VOLUME CONTROL SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OGE OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	2(1.5)-CV-2124-BB1 (FIG NO A-CV-5)							
155400	2 BENT PIPE TO FLANGE	B-J B9.21	PT	ZA-0012 R2	C	-	-	
155405	2FB FLANGE BOLTING	B-G-2 B7.50	VT-1	ZA-0024 R1	-	-	C	BORON BUILDUP AT FLANGE CONNECTION. SEE CR 97-2667. SAMPLE EXPANSION TO SN 154905, 155925, AND 156445. BOLTING WAS 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 FLANGE BOLTING	B-G-2 B7.50	VT-1	ZA-0024 R1	E	-	-	SAMPLE EXPANSION PER IWB-2430 - SEE 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 FLANGE BOLTING	B-G-2 B7.50	VT-1	ZA-0024 R1	E	-	-	SAMPLE EXPANSION PER IWB-2430 - SEE SUMMARY NO. 155405. NO INSPECTION CREDIT TAKEN BECAUSE THIS WELD WAS EXAMINED PREVIOUSLY IN PERIOD 1. NO FURTHER SAMPLE EXPANSION IS RFQUIRED.

RESIDUAL HEAT REMOVAL SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	12-RH-2101-BB1 (FIG NO A-RH-1)							
200000	1	B-J	PT	ZA-0012 R2	C	-	-	
	VALVE TO PIPE	B9.11	UT	UTI-001 R3	-	C	-	
			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	-	C	-	
								SS-21
200160	9	B-J	PT	ZA-0012 R2	C	-	-	
	ELBOW TO PIPE	B9.11	UT	UTI-001 R3	-	C	-	
								SS-21
200200	11	B-J	PT	ZA-0012 R2	C	-	-	
	PIPE TO PIPE	B9.11	UT	UTI-001 R3	-	C	-	
			UT	UTI-005 R3	-	C	-	
								SS-21/SS-20

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	12-SI-2315-BB1 (FIG NO A-SI-2)							
230660	7	B-J	PT	ZA-0012 R2	C	-	-	TWO INDICATIONS OF ROOT GEOMETRY WERE
	PIPE TO ELBOW	B9.11	UT	UTI-001 R3	-	C	-	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	-	-	
	PIPE TO VALVE	B9.11	UT	UTI-001 R3	-	C	-	
			UT	UTI-005 R3	-	C	-	**SS-21**

REACTOR COOLANT PUMP 2A

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	FLYWHEEL (FIG NO A-RCP-3)							
260170	RCP-2A-FW FLYWHEEL	RG 1.14	UT	UTI-003 R1	W	-	-	EXAMINED BORE, KEYWAYS, AND BOLT HOLES IN PLACE. **CS-76**

REACTOR COOLANT PUMP 2B

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	FLYWHEEL (FIG NO A-RCP-2)							
260270	RCP-2B-FW FLYWHEEL	RG 1.14	UT	UTI-003 R1	W	-	-	EXAMINED BORE, KEYWAYS, AND BOLT HOLES IN PLACE. **CS-76**

REACTOR COOLANT PUMP 2C

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G O M -	O T H E R	REMARKS **CALIBRATION BLOCK**
	FLYWHEEL (FIG NO A-RCP-3)							
260370	RCP-2C-FW FLYWHEEL	RG 1.14	UT	UTI-003 R1	W	-	-	EXAMINED BORE, KEYWAYS, AND BOLT HOLES IN PLACE. **CS-76**

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 2D

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	FLYWHEEL (FIG NO A-RCP-2)							
260470	RCP-2D-FW FLYWHEEL	RG 1.14	UT	UTI-003 R1	W	-	-	EXAMINED BORE, KEYWAYS, AND BOLT HOLES IN PLACE. **CS-76**

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

VALVES

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OGE OM	OTH ER	REMARKS **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	B	-	-	PERFORMED BASELINE EXAMINATION ON VALVE BOLTING ON REPLACEMENT VALVE INSTALLED PER WCD NO. RC-2-345646.
261120	PSV 3452-VIS ON 6-RC-2004 FIG. NO. A-RC-6	B-M-2 B12.50	VT-3	ZA-0024 R1	B	-	-	PERFORMED BASELINE VISUAL EXAMINATION ON 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	B	-	-	PERFORMED BASELINE VISUAL EXAMINATION ON 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	B	-	-	PERFORMED BASELINE EXAMINATION ON VALVE BOLTING ON REPLACEMENT VALVE INSTALLED PER WCD NO. RC-2-345644.
261220	PSV 3450-VIS ON 6-RC-2012 FIG. NO. A-RC-6	B-M-2 B12.50	VT-3	ZA-0024 R1	B	-	-	PERFORMED BASELINE VISUAL EXAMINATION ON INTERIOR OF REPLACEMENT VALVE INSTALLED PER WCD NO.RC-2-345644. EXAMINED ALL INTERNAL PRESSURE BOUNDARY SURFACES TO THE EXTENT POSSIBLE.

RESIDUAL HEAT REMOVAL HEAT EXCHANGER 2A

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	O G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	CIRCUMFERENTIAL WELDS (FIG NO B-RHX-1)							
305450	RHAHRS-2A-S2 SHELL TO FLANGE	C-A C1.10	UT	UTI-032 R0	-	C	-	**SS-65**
	NOZZLE TO SHELL WELDS (FIG NO B-RHX-1)							
305500	RHAHRS-2A-NA	C-B	PT	ZA-0012 R2	C	-	-	
	NOZZLE TO SHELL	C2.21	UT	UTI-032 R0	-	C	-	**SS-65/SS-66**
305550	RHAHRS-2A-NB	C-B	PT	ZA-0012 R2	C	-	-	
	NOZZLE TO SHELL	C2.21	UT	UTI-032 R0	-	C	-	**SS-65/SS-66**

AUXILIARY FEEDWATER SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	8-AF-2008-GA2[C] (FIG NO B-AF-3)							
351740	12	C-F-2	MT	ZA-0018 R2	C	-	-	
	ELBOW TO PIPE	C5.51	UT	UTI-002 R3	-	C	-	
								CS-2
351810	15PL1-15PL8	C-C	MT	ZA-0018 R2	C	-	-	
	PIPE LUGS	C3.20						
	8-AF-2010-GA2[C] (FIG NO B-AF-5)							
353330	18PL1-18PL8	C-C	MT	ZA-0018 R2	C	-	-	
	PIPE LUGS	C3.20						
353470	25PL1-25PL8	C-C	MT	ZA-0018 R2	C	-	-	
	PIPE LUGS	C3.20						
353520	28	C-F-2	MT	ZA-0018 R2	C	-	-	
	PIPE TO REDUCER	C5.51	UT	UTI-002 R3	-	C	-	
								CS-2
	8-AF-2010-GA2[G] (FIG NO B-AF-6)							
354040	2	C-F-2	MT	ZA-0018 R2	C	-	-	
	PIPE TO REDUCER	C5.51	UT	UTI-002 R3	-	C	-	
								CS-2
	6-AF-2010-GA2 (FIG NO B-AF-5, 6)							
359660	2	C-F-2	MT	ZA-0018 R2	C	-	-	
	PIPE TO ELBOW	C5.51	UT	UTI-002 R3	-	C	-	
								CS-1

FEEDWATER SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	18-FW-2018-GA2 (FIG NO B-FW-7, 8)							
502720	4	BEZ	MT	ZA-0018 R2	A	-	-	AUGMENTED ISI/BEZ.
	PIPE TO PIPE	CS.51	UT	UTI-002 R3	A	-	-	
								CS-3

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

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	O G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	30-MS-2003-GA2 (FIG NO B-MS-5, 6)							
555760	14LUI LONGITUDINAL WELD	C-F-2-L C5.52	MT UT	ZA-0018 R2 UTI-002 R3	L L	- -	- -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. **CS-5**
555780	14LUO LONGITUDINAL WELD	C-F-2-L C5.52	MT UT	ZA-0018 R2 UTI-002 R3	L L	- -	- -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. **CS-5**
555800	14 ELBOW TO PIPE	C-F-2 C5.51	MT UT	ZA-0018 R2 UTI-002 R3	C C	- -	- -	**CS-5**
555820	14LD LONGITUDINAL WELD	C-F-2-L C5.52	MT UT	ZA-0018 R2 UTI-002 R3	L L	- -	- -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. **CS-5**
556400	23 PIPE TO PENETRATION	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. **CS-5**
556460	24 PIPE TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A -	- A	- -	AUGMENTED ISI/BEZ. **CS-5**
556480	24LD LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-33**

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OG EM	OTH ER	REMARKS **CALIBRATION BLOCK**
	30-MS-2003-GA2 (FIG NO B-MS-5, 6)							
556500	25LU LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-33**
556520	25 PIPE TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. **CS-33**
556540	25LD LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-35**
556542	26LU LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-35**
556544	26 PIPE TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. **CS-35**
556546	26LD LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-35**
556548	27LU LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-35**

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	O G E M	T H E R	REMARKS **CALIBRATION BLOCK**
	30-MS-2003-GA2 (FIG NO B-MS-5, 6)							
556550	27 PIPE TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. **CS-35**
556552	27LD LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-35**
556560	28LU LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-35**
556580	28 PIPE TO VALVE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. **CS-5**
556600	29 VALVE TO PIPE	C-F-2 C5.51	MT UT	ZA-0018 R2 UTI-002 R3	C -	- C	- -	**CS-5**
556620	29LD LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0010 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-34**
556630	29PL1-29PL8 PIPE LUGS	C-C C3.20	MT	ZA-0018 R2	C	-	-	

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	30-MS-2003-GA2 (FIG NO B-MS-5, 6)							
556640	30LU LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	-	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-34**
556660	30 PIPE TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	-	- -	AUGMENTED ISI/BEZ. **CS-33**
556680	30LD LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	-	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-34**
556700	31LU LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A -	- A	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-34**
556720	31 PIPE TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A -	- A	- -	AUGMENTED ISI/BEZ. **CS-5**
	30-MS-2004-GA2 (FIG NO B-MS-7, 8)							
557340	4LUI LONGITUDINAL WELD	C-F-2-L C5.52	MT UT	ZA-0018 R2 UTI-002 R3	L L	-	- -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. **CS-5**
557360	4LUO LONGITUDINAL WELD	C-F-2-L C5.52	MT UT	ZA-0018 R2 UTI-002 R3	L L	-	- -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. **CS-5**

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R C	G E M	O T H R	REMARKS **CALIBRATION BLOCK**
	30-MS-2004-GA2 (FIG NO B-MS-7, 8)							
557380	4	C-F-2	MT	ZA-0018 R2	C	-	-	
	ELBOW TO PIPE	C5.51	UT	UTI-002 R3	C	-	-	
								CS-5
557400	4LD	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
558700	22	BEZ	MT	ZA-0018 R2	A	-	-	AUGMENTED ISI/BEZ.
	PIPE TO PENETRATION	C5.51	UT	UTI-002 R3	A	-	-	
								CS-5
558760	23	BEZ	MT	ZA-0018 R2	A	-	-	AUGMENTED ISI/BEZ.
	PIPE TO PIPE	C5.51	UT	UTI-002 R3	-	A	-	
								CS-5
558780	23LD	BEZLONG	MT	ZA-0018 R2	A	-	-	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE
	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	A	-	-	WELD LENGTH.
								CS-33
558800	24LU	BEZLONG	MT	ZA-0018 R2	A	-	-	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE
	LONGITUDINAL WELD	C5.52	UT	UTI-002 R3	A	-	-	WELD LENGTH.
								CS-33
558820	24	BEZ	MT	ZA-0018 R2	A	-	-	AUGMENTED ISI/BEZ.
	PIPE TO PIPE	C5.51	UT	UTI-002 R3	A	-	-	
								CS-33

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	30-MS-2004-GA2 (FIG NO B-MS-7, 8)							
558840	24LD LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 10?% OF THE WELD LENGTH. **CS-35**
558842	25LU LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-35**
558844	25 PIPE TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. **CS-35**
558846	25LD LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-35**
558848	26LU LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-35**
558850	26 PIPE TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. **CS-35**
558852	26LD LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-35**

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	30-MS-2004-GA2 (FIG NO B-MS-7, 8)							
558860	27LU LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-35**
558880	27 PIPE TO VALVE	C-F-2 C5.51	MT UT	ZA-0018 R2 UTI-002 R3	C -	- C	- -	**CS-5**
558900	28 VALVE TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. **CS-5**
558920	28LD LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-34**
558925	28PL1-28PL8 PIPE LUGS	C-C C3.20	MT	ZA-0018 R2	C	-	-	
558940	29LU LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-34**
558960	29 PIPE TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. **CS-33**

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	O G E O	T H R M	REMARKS **CALIBRATION BLOCK**
	30-MS-2004-GA2 (FIG NO B-MS-7, 8)							
558980	29LD LONGITUDINAL WELD	REZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-34**
559000	30LU LONGITUDINAL WELD	BEZLONG C5.52	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. EXAMINED 100% OF THE WELD LENGTH. **CS-34**
559020	30 PIPE TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A -	- A	- -	AUGMENTED ISI/BEZ. **CS-5**
	16-MS-2004-GA2 (FIG NO B-MS-8)							
561080	1 EXTRUSION TO PIPE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. **CS-15**
561100	2 PIPE TO WELD CAP	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A -	- A	- -	AUGMENTED ISI/BEZ. **CS-15**
	6-MS-2004-GA2(A) (FIG NO B-MS-8)							
567900	1 EXTRUSION TO FLANGE	BEZ C5.51	MT UT	ZA-0018 R2 UTI-002 R3	A A	- -	- -	AUGMENTED ISI/BEZ. **CS-75**

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

MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	6-MS-2004-GA2(B) (FIG NO B-MS-8)							
568000	1	BEZ	MT	ZA-0018 R2	A	-	-	AUGMENTED ISI/BEZ.
	EXTRUSION 1" FLANGE	C5.51	UT	UTI-002 R3	A	-	-	
								CS-75

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR CE	OG EM	OTH ER	REMARKS **CALIBRATION BLOCK**
	24-SI-2101-UB2 (FIG NO B-SI-1, 2)							
699990	1LU LONGITUDINAL WELD	C-F-1-L C5.12	PT UT	ZA-0012 R2 UTI-012 R2	L L	- -	- -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. **SS-32**
700000	1 NOZZLE TO PIPE	C-F-1 C5.11	PT UT	ZA-0012 R2 UTI-012 R2	C -	- C	- -	**SS-32**
700020	1LD LONGITUDINAL WELD	C-F-1-L C5.12	PT UT	ZA-0012 R2 UTI-012 R2	L -	- L	- -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. **SS-32**
700040	2LU LONGITUDINAL WELD	C-F-1-L C5.12	PT UT UT	ZA-0012 R2 UTI-012 R2 UTI-004 R3	L L L	- - -	- - -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. NO UT BASELINE PRIOR TO 2RE05. **SS-32**
700060	2 PIPE TO ELBOW	C-F-1 C5.11	PT UT UT	ZA-0012 R2 UTI-012 R2 UTI-004 R3	C - C	- C -	- - -	NO UT BASELINE PRIOR TO 2RE05. INTERMITTENT ROOT GEOMETRY DETECTED WITH 45 DEGREE SEARCH UNIT. **SS-32**
700080	2LDI LONGITUDINAL WELD	C-F-1-L C5.12	PT UT UT	ZA-0012 R2 UTI-012 R2 UTI-004 R3	L L L	- - -	- - -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. NO UT BASELINE PRIOR TO 2RE05. **SS-32**
700100	2LDO LONGITUDINAL WELD	C-F-1-L C5.12	PT UT UT	ZA-0012 R2 UTI-012 R2 UTI-004 R3	L L L	- - -	- - -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. NO UT BASELINE PRIOR TO 2RE05. **SS-32**

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OGE OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	24-SI-2101-UB2 (FIG NO B-SI-1, 2)							
701680	27LU LONGITUDINAL WELD	C-F-1-L C5.12	PT UT	ZA-0012 R2 UTI-012 R2	L L	- -	- -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. **SS-32**
701700	27 PIPE TO REDUCER	C-F-1 C5.11	PT UT	ZA-0012 R2 UTI-012 R2	C -	- C	- -	 **SS-32**
701720	27LD LONGITUDINAL WELD	C-F-1-L C5.12	PT UT	ZA-0012 R2 UTI-012 R2	L L	- -	- -	EXAMINED 2.5T AT THE INTERSECTING CIRCUMFERENTIAL WELD. **SS-32**
	6-SI-2206-DB2 (FIG NO B-SI-16)							
739320	24 PENETRATION TO PIPE	C-F-1 C5.11	PT UT	ZA-0012 R2 UTI-012 R2	C -	- C	- -	 **SS-23**
739340	25 PIPE TO ELBOW	C-F-1 C5.11	PT UT	ZA-0012 R2 UTI-012 R2	C C	- -	- -	 **SS-23**
739360	26 ELBOW TO PIPE	C-F-1 C5.11	PT UT	ZA-0012 R2 UTI-012 R2	C C	- -	- -	 **SS-23**
739380	27 PIPE TO VALVE	C-F-1 C5.11	PT UT	ZA-0012 R2 UTI-012 R2	C C	- -	- -	 **SS-23**

SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	6-SI-2206-DB2 (FIG NO B-SI-16)							
739400	28	C-F-1	PT	ZA-0012 R2	C	-	-	
	VALVE TO PIPE	C5.11	UT	UTI-012 R2	C	-	-	
								SS-23
	6-SI-2207-BB2 (FIG NO B-SI-16)							
740640	4	C-F-1	PT	ZA-0012 R2	C	-	-	
	PIPE TO ELBOW	C5.11	UT	UTI-001 R3	-	C	-	
								SS-9
740660	5	C-F-1	PT	ZA-0012 R2	C	-	-	
	ELBOW TO PIPE	C5.11	UT	UTI-001 R3	-	C	-	
								SS-9
	6-SI-2210-BB2 (FIG NO B-SI-17)							
741920	2	C-F-1	PT	ZA-0012 R2	C	-	-	
	PIPE TO VALVE	C5.11	UT	UTI-001 R3	-	C	-	
								SS-9
	2-SI-2335-DB2 (FIG NO B-SI-23)							
747180	19	C-F-1	PT	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.
	ELBOW TO PIPE	C5.30						

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

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	GEO M	OTH ER	REMARKS **CALIBRATION BLOCK**
	2-SI-2335-DB2 (FIG NO B-SI-23)							
747190	20 PIPE TO VALVE	C-F-1 C5.30	PT	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.

APPENDIX 2-B

PERSONNEL

APPENDIX 2-B

PERSONNEL

Name	Company	UT	MT	PT	VT
Blecha,P.	SSI	II	*	II	*
Brown, T.	SSI	*	II	II	*
DiValerio, P.	SSI	II	II	II	II
Garcia, D.	SSI	II	II	II	*
Grell, M.	SSI	II	II	II	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	*	*	*	II
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
UTI-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

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.

Column 2 - 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:

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

where a = one direction only percentage

b = two direction percentage

Examples:

(1)

none	1 dir	2 dir
0%	0%	100%

$c = \frac{0 + 2*100}{2}$ = 100% effective coverage

(2)

none	1 dir	2 dir
0%	100%	0%

$c = \frac{100 + 2*0}{2}$ = 50% effective coverage

(3)

none	1 dir	2 dir
50%	50%	0%

$c = \frac{50 + 2*0}{2}$ = 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.

ASME SECTION XI CODE COVERAGE LIMITATIONS

1997 2RE05 ISI

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2

ASME CATEGORY B-D

SYSTEM: STEAM GENERATOR (CLASS 1)

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

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	LIMITATION
1 B-D B3.130 VOL	S / G 2C ON FIGURE NO. A-SG-1 CHAN HEAD CAP TO OUT NOZZ	0 45 60 45T 60T	30 7 7 30 30	- 93 93 0 0	- 0 0 70 70	70 47 47 70 70		EXAMINATION LIMITED TO W=2.0 INCHES ON THE NOZZLE SIDE DUE TO COMPONENT CONFIGURATION.
017300	UT						61	

ASME CATEGORY B-F

SYSTEM: PRESSURIZER (CLASS 1)

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	LIMITATION
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 CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	LIMITATION
1 B-F B5.40 VOL/SURF	PRZ-2 N2-SE FIGURE NO. A-PRZ-1 SAFE END TO NOZZLE	45 45T	4 0	57 0	39 100	68 100	 84	LIMITED UT45 FROM THE SAFE END SIDE DUE TO SAFE END CONFIGURATION.
011800	UT/PT	PT	0	-	-	-	100	

ASME SECTION XI CODE COVERAGE LIMITATIONS

1997 2RE05 ISI

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2

ASME CATEGORY B-F (CONTD)

SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1)

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	LIMITATION
1 B-F B5.130 VOL/SURF	31-RC-2302-NSS 1 FIGURE NO. A-RC-3 NOZZLE TO ELBOW	45 45T	0 0	50 0	50 100	75 100	88	NO EXAMINATION ON THE ELBOW SIDE DUE TO ELBOW CONFIGURATION.
100360	UT/PT	PT	0	-	-	-	100	

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. 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	0 40	LIMITED UT45 FROM BOTH SIDES AND NO UT45T FROM THE NOZZLE SIDE DUE TO TRANSDUCER LIFTOFF DUE TO CONFIGURATION.
101040	UT/PT	PT	0	-	-	-	100	

ASME CATEGORY B-J

SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1)

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	LIMITATION
1 B-J B9.11 VOL/SURF	31-RC-2202-NSS 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	

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	LIMITATION
1 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	

ASME SECTION XI CODE COVERAGE LIMITATIONS

1997 2RE05 ISI

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 2

ASME CATEGORY B-J (CONTD)

SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1)

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	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	PT	0	-	-	-	100	

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	LIMITATION
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	UT/PT	PT	0	-	-	-	100	

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. COV.	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	

ASME SECTION XI CODE COVERAGE LIMITATIONS

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 CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	LIMITATION
2 C-B C2.21 VOL/SURF	RHAHRS-2A NA FIGURE NO. B-RHX-1 NOZZLE TO SHELL	45 45T	0 62	0 0	100 38	100 38	69	NO UT45T ON THE WELD DUE TO WELD CONFIGURATION.
305500	UT/PT	PT	0	-	-	-	100	

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	LIMITATION
2 C-B C2.21 VOL/SURF	RHAHRS-2A NB FIGURE NO. B-RHX-1 NOZZLE TO SHELL	45 45T	0 62	0 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 CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - WELD CONFIGURATION - EXAMINATION METHOD	EXAM TYPE	% COVERAGE NONE	1 DIR ONLY	2 DIR	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 2 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.

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

FORM NIS-1 (Back)

8. Examination Dates 1/29/97 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 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.

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 1997 Signed Houston Lighting & Power Co. By R. L. Beverly
Owner

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 1/29/97 to 2/18/97, 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 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.

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

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 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 2 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.

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

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%.

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 R.L. Beverly
Owner

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 Texas and employed by Arkwright Mutual Insurance Co. of Norwood, Mass have inspected the components described in this Owner's Report during the period 10/4/96 to 2/18/97, 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 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.

Commissions Tex 826

Inspector's Signature
B. R. Russell

National Board, State, Province, and Endorsements

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:

(1) 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 1 piping supports and three (3) Class 1 equipment support were examined in the following systems:

	Piping	Equipment
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:

	2RE05	Cumulative (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

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

CHEMICAL&VOLUME CONTROL 1

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR CEC	GEN OMI	OTH ER	REMARKS **CALIBRATION BLOCK**
	2-CV-2141-BB1-A-A1							
101700	CV-2141-HS5007	PIPING-1	VT-3	ZA-0023 R1	C	-	-	EXAMINED WHEN FILLED.
	SH-V	-	VT-4	ZA-0023 R1	C	-	-	

REACTOR COOLANT 1

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	6-RC-2003-BB1-A							
105300	RC-2003-HL5004	PIPING-1	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
105400	RC-2003-HL5005	PIPING-1	VT-3	ZA-0023 R1	C	-	-	EXAMINED WHEN FILLED.
	SH-V	-	VT-4	ZA-0023 R1	C	-	-	
105500	RC-2003-HL5007	PIPING-1	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
105600	RC-2003-RR06	PIPING-1	VT-3	ZA-0023 R1	C	-	-	
	RR	-						

RESIDUAL HEAT REMOVAL 1

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	8-RH-2208-BB1-A							
114600	RH-2208-HL5004 RR	PIPING-1 -	VT-3	ZA-0023 R1	C	-	-	

INSERVICE INSPECTION PLAN - 2RE05 (SUPPORTS)
FIRST INTERVAL, SECOND PERIOD, THIRD OUTAGE (97RF)
CLASS 1 SECTION XI COMPLETE COMPONENTS

SAFETY INJECTION 1

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR CE	GOM E	OTH ER	REMARKS **CALIBRATION BLOCK**
	8-SI-2208-BB1-B							
115800	SI-2208-HL5003 RR	PIPING-1 -	VT-3	ZA-0023 R1	C	-	-	

REACTOR COOLANT 1

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	1R112NPZ101A							
117000	PRU3 RC PRES UPPR	EQUIP-1 -	VT-3	ZA-0023 R1	C	-	-	AS VIEWED FROM ABOVE, THE THIRD SUPPORT CLOCKWISE FROM THE SUPPORT NEAREST THE REACTOR VESSEL.
	1R132NPP101B							
120500	RPR1B RC PUMP RODS	EQUIP-1 -	VT-3	ZA-0023 R1	C	-	-	AS VIEWED FROM ABOVE, THE TIE ROD SUPPORT IMMEDIATELY CLOCKWISE FROM THE DISCHARGE NOZZLE ON REACTOR COOLANT PUMP B.
120600	RPR2B RC PUMP RODS	EQUIP-1 -	VT-3	ZA-0023 R1	C	-	-	AS VIEWED FROM ABOVE, THE TIE ROD SUPPORT IMMEDIATELY CLOCKWISE FROM RPR1B.

AUXILIARY FEEDWATER 2

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	GEO M	OTH ER	REMARKS **CALIBRATION BLOCK**
	8-AF-2012-GA2-D							
205200	AF-2012-HL5026 RR	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	
	8-AF-2012-GA2-E							
205300	AF-2012-HL5029 RR	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	

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

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OG EM	OTH ER	REMARKS **CALIBRATION BLOCK**
	6-CS-2303-PB2-A							
216700	CS-2303-HL5002 RR	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	
216800	CS-2303-HL5003 RR	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	

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

FEED WATER 2

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	W O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	1#-FW-2016-GA2-H							
220500	FW-2016-HL5005 RR	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	

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

MAIN STEAM 2

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR CE	NOG OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	30-MS-2003-GA2-C							
225900	MS-2003-HL5011	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	SH-V	-	VT-4	ZA-0023 R1	C	-	-	

RESIDUAL HEAT REMOVAL 2

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	8-RH-2106-KB2-C							
233300	RH-2106-RR03	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
	8-RH-2111-BB2-A							
234000	RH-2111-HL5001	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
	8-RH-2204-KB2-C							
235700	RH-2204-HL5004	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
235800	RH-2204-RR04	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
	8-RH-2205-KB2-D							
237600	RH-2205-HL5010	PIPING-2	VT-3	ZA-0023 R1	C	-	-	EXAMINED WHEN FILLED.
	SH-V	-	VT-4	ZA-0023 R1	C	-	-	
237700	RH-2205-HL5011	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	GUIDE	-						

SAFETY INJECTION 2

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E M	O T H E R	REMARKS **CALIBRATION BLOCK**
	24-SI-2101-UB2-E							
244700	SI-2101-SH10	PIPING-2	VT-3	ZA-0023 R1	C	-	-	EXAMINED WHEN FILLED.
	SH-V (2)	-	VT-4	ZA-0023 R1	C	-	-	
	8-SI-2102-PB2-D							
255000	SI-2102-RH07	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
	8-SI-2102-PB2-E							
255100	SI-2102-HL5001	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
255200	SI-2102-HL5004	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
	8-SI-2105-KB2-G							
256400	SI-2105-RR26	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
	8-SI-2105-KB2-H							
256500	SI-2105-RR27	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
256600	SI-2105-RR28	PIPING-2	VT-3	ZA-0023 R1	C	-	-	
	RR	-						

SAFETY INJECTION 2

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	8-SI-2105-KB2-J							
256700	SI-2105-HL5001 RR	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	
256800	SI-2105-RR29 RR	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	
	8-SI-2105-KB2-K							
256900	SI-2105-RR31 RR	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	
257000	SI-2105-RR32 RR	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	
	8-SI-2105-KB2-R							
257800	SI-2105-SH39 SH-V (2)	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	EXAMINED WHEN FILLED.
		-	VT-4	ZA-0023 R1	C	-	-	
	6-SI-2106-DB2-M							
265700	SI-2106-RR63 GUIDE	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	
	6-SI-2106-DB2-Q							
266600	SI-2106-HL5009 GUIDE	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	

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

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	O G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	2-SI-2139-DB2-A-A1							
278300	SI-2139-HP5001 GUIDE	PIPING-2 -	VT-3	ZA-0023 R1	C	-	-	

RESIDUAL HEAT REMOVAL 2

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	2R162MHX101A							
283000	RHU1A RH HTX SUPT	EQUIP-2 -	VT-3	ZA-0023 R1	C	-	-	AS VIEWED FROM ABOVE, THE LONGER UPPER SUPPORT ON RHR HEAT EXCHANGER A.

AUXILIARY FEEDWATER 3

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	12-AF-2054-WA3-E							
300100	AF-2054-HL5002 GUIDE	PIPING-3	VT-3 -	ZA-0023 R1	C	-	-	
	12-AF-2054-WA3-F							
300300	AF-2054-HL5005 GUIDE	PIPING-3	VT-3 -	ZA-0023 R1	C	-	-	
	12-AF-2054-WA3-G							
300400	AF-2054-HL5006 GUIDE	PIPING-3	VT-3 -	ZA-0023 R1	C	-	-	
	12-AF-2054-WA3-H							
300600	AF-2054-HL5008 GUIDE	PIPING-3	VT-3 -	ZA-0023 R1	C	-	-	
	1.5-AF-2053-GA3-AA03							
316600	AF-2053-HF5001 U-BOLT	PIPING-3	VT-3 -	ZA-0023 R1	C	-	-	
	1.5-AF-2053-GA3-BA03							
316700	AF-2053-HF5002 RR	PIPING-3	VT-3 -	ZA-0023 R1	C	-	-	

COMPONENT COOLING 3

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	24-CC-2101-WA3-B							
319800	CC-2101-HL5003	PIPING-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							
334900	CC-2106-HL5004	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	GUIDE	-						
	16-CC-2106-WA3-H							
335800	CC-2106-RR16	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	GUIDE	-						
	14-CC-2114-WA3-A							
344500	CC-2114-HL5005	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
	14-CC-2120-WA3-B							
345200	CC-2120-HL5003	PIPING-3	VT-3	ZA-0023 R1	C	-	-	EXAMINED WHEN FILLED.
	SH-V	-	VT-4	ZA-0023 R1	C	-	-	

COMPONENT COOLING 3

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G O M	O T H R	REMARKS **CALIBRATION BLOCK**
	10-CC-2114-WA3-C							
350200	CC-2114-RR26	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
350300	CC-2114-RR27	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
350400	CC-2114-RR28	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
350500	CC-2114-RR29	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
	10-CC-2114-WA3-D							
350600	CC-2114-RR24	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
350700	CC-2114-RR25	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
	10-CC-2114-WA3-E							
350900	CC-2114-HL5004	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						

COMPONENT COOLING 3

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	G E O M	O T H E R	REMARKS **CALIBRATION BLOCK**
	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	C	-	-	
	RR	-						
351300	CC-2114-RR18	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
	10-CC-2114-WA3-G							
351400	CC-2114-RR14	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
351500	CC-2114-RR15	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
	10-CC-2114-WA3-J							
351800	CC-2114-RR10	PIPING-3	VT-3	ZA-0023 R1	C	-	-	
	RR	-						
351900	CC-2114-RR11	PIPING-3	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 3 SECTION XI COMPLETE COMPONENTS

COMPONENT COOLING 3

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	NOG EM	OTH ER	REMARKS **CALIBRATION BLOCK**
	10-CC-2114-WA3-K							
352100	CC-2114-RR08 RR	PIPING-3 -	VT-3	ZA-0023 R1	C	-	-	
352200	CC-2114-RR09 RR	PIPING-3 -	VT-3	ZA-0023 R1	C	-	-	
	10-CC-2115-WA3-X							
355600	CC-2115-RR01 GUIDE	PIPING-3 -	VT-3	ZA-0023 R1	C	-	-	

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

ESSENTIAL COOLING WATER 3

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OG EM	OTH ER	REMARKS **CALIBRATION BLOCK**
	30-EW-2105-WT3-A							
380100	EW-2105-HL5004 RR	PIPING-3 -	VT-3	ZA-0023 R1	C	-	-	
	6-EW-2125-WT3-B1							
418300	EW-2125-HL5005 GUIDE	PIPING-3 -	VT-3	ZA-0023 R1	C	-	-	
418400	EW-2125-HL5009 GUIDE	PIPING-3 -	VT-3	ZA-0023 R1	C	-	-	
418500	EW-2125-HL5010 GUIDE	PIPING-3 -	VT-3	ZA-0023 R1	C	-	-	
	6-EW-2125-WT3-BA							
418600	EW-2125-HL5004 GUIDE	PIPING-3 -	VT-3	ZA-0023 R1	C	-	-	

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

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR CE	G O M	OTH ER	REMARKS **CALIBRATION BLOCK**
	3R202NHX201A							
428600	CCX1A CC CLG HTX	EQUIP-3 -	VT-3	ZA-0023 R1	C	-	-	THE SUPPORT LOCATED AT THE EAST END OF CCW HEAT EXCHANGER A.

DIESEL JACKET WATER 3

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	G	OTHER OM	OTHER R	REMARKS **CALIBRATION BLOCK**
	3Q152MSA0134								
432100	JW1A JW PIPE SUPT	EQUIP-3 -	VT-3	ZA-0023 R1	C	-	-		THE PIPE SUPPORT LOCATED DOWNSTREAM OF JACKET WATER STANDBY PUMP DISCHARGE.

DIESEL LUBE OIL 3

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OGE OM	OTH ER	REMARKS **CALIBRATION BLOCK**
	3Q152MPU0134							
433900	LCP1A LU CIRC PUMP	EQUIP-3 -	VT-3	ZA-0023 R1	C	-	-	BASE SUPPORT ON LUBE OIL CIRC. PUMP A.
	3Q152MSA0134							
434900	LUF1A LU FILTER	EQUIP-3 -	VT-3	ZA-0023 R1	C	-	-	SINGLE BASE SUPPORT ON LUBE OIL FILTER A.

REACTOR MAKE-UP WATER 3

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	NOR EC	OG EM	OTH ER	REMARKS **CALIBRATION BLOCK**
	3R272NTF101A							
439000	AMBT1 RC MK-UP TNK	EQUIP-3 -	VT-3	ZA-0023 R1	C	-	-	SINGLE BASE SUPPORT ON REACTOR MAKE-UP WATER STORAGE TANK.

APPENDIX 3-B

PERSONNEL

APPENDIX 3-B

PERSONNEL

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

APPENDIX 3-C

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 2 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	Westinghouse (M)	2161		19
Reactor Coolant Pump 2B	Westinghouse (I)	1081-1163E26G01-14		N.A.
Class 1 Piping Supports	Ebasco (I)	N.A.		N.A.

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

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 - 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 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 1997 Signed Houston Lighting & Power Co. By R.L.Beverly
Owner

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 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 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.

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

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 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 2 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
Class 2 Piping Supports	Ebasco (I)	N.A.		N.A.

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

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%.**

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 1997 Signed Houston Lighting & Power Co. By R.A. Beverly
Owner 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 Texas and employed by Arkwright Mutual Insurance Co. of Norwood, Mass have inspected the components described in this Owner's Report during the period 11/27/96 to 2/11/97, 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 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.

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

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 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 2 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 Heat Exch. 2A	Ebasco(I)	N.A.		N.A.
Jacket Water Pipe Support	Ebasco(I)	N.A.		N.A.
Lube Oil Circ. Pump	Ebasco(I)	N.A.		N.A.
Lube Oil Filter	Ebasco(I)	N.A.		N.A.
Reactor Coolant Makeup Tank	Ebasco(I)	N.A.		N.A.
Class 3 Piping Supports	Ebasco(I)	N.A.		N.A.

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

FORM NIS-1 (Back)

8. Examination Dates 11/27/96 to 2/9/97 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 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%.**

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 R.L.Beverly
Owner

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 11/27/96 to 2/9/97, 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 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.

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

Date 5-19- 19 97