



**1RF04 INSERVICE INSPECTION SUMMARY REPORT  
FOR WELDS AND COMPONENT SUPPORTS**

of the

**SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION - UNIT 1  
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: AUGUST 25, 1988

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1RE04 INSERVICE INSPECTION SUMMARY REPORT

FOR WELDS AND COMPONENT SUPPORTS

of the

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION

UNIT NO. 1

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Prepared by: J. L. Younger 3/25/93  
J. L. Younger Date  
ISI Engineer - Welds & Component Supports

Reviewed by: R. L. Beverly 3/25/93  
R. L. Beverly Date  
Supervising Engineer - ISI Group

Approved by: M. Pacy 3/25/93  
M. Pacy Date  
Manager - Design Engineering Department

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## 1.0 IRE04 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 1 (STPEGS-1) performed from August 26 to completion of the fourth refueling outage (IRE04) on December 31, 1992. 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-1 began August 25, 1988 and extends to August 25, 1998. The second inspection period is of four years duration beginning August 25, 1991 and extending to August 25, 1995. The ISI summarized herein constitutes the fourth ISI performed during the first ten year inspection interval and the first ISI of the second inspection period of STPEGS-1. Figure 1 of this Section depicts the first ten year interval and Periods 1 through 3 for STPEGS-1. The percentages completion of examinations performed through IRE04 for STPEGS-1 welds and component supports are also summarized in Figure 1.

The STPEGS-1 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-1 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 IRE04 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 1**

Year	19 88		19 89		19 90		19 91		19 92		19 93		19 94		19 95		19 96		19 97		19 98				
	Wtr	Sp	Fall	Wtr	Sp	Fall	Wtr	Sp	Fall	Wtr	Sp	Fall	Wtr	Sp	Fall	Wtr	Sp	Fall	Wtr	Sp	Fall	Wtr	Sp	Fall	
Period																									
Outage #																									

CO - Commercial Operation  
EOI - End of Interval

PERIOD 1 Minimum 16 %  
PERIOD 1 Maximum 34 %

PERIOD 1 SUMMARY	
Welds Program	% Comp.
Welds Program	31 %
Supports Program	34 %

PERIOD 2 Minimum 50 %  
PERIOD 2 Maximum 67 %

Refueling Outage	
PERIOD 2 (In Progress)	Cum % Comp.
Welds Program	18 %
Supports Program	15 %
	0 %
	0 %
	49 %
	50 %

**FIGURE 1**

## 2.0 WELD EXAMINATIONS

### 2.1 Introduction

ISI of STPEGS-1 Class 1 and 2 welds and components within the Welds Examination Program was performed between September 18 and November 23, 1992. These examinations constitute the fourth ISI of the first inspection interval for the Welds Examination Program for STPEGS-1.

This section of the Summary Report documents the examinations performed by HL&P Quality Control (QC) 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 1" (LTP),
- (2) "Examination Plan for the 1992 - 1RE04 Inservice Inspection at the South Texas Project Electric Generating Station, Unit 1" 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 1992 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 and twenty-two (122) 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 fourth refueling outage. In addition, eleven (11) baseline examinations were performed on several components as a result of replacement or modification. These additional examinations are noted in the remarks column of the Examination Summary Tables as "Baseline Examination".

### Class 1

A total of seventy-six (76) selected and eleven (11) baseline examinations were performed on the following Class 1 components and examination areas:

#### Vessels

Reactor Vessel  
Pressurizer  
Steam Generator 1B (Primary Side)

#### Piping

Reactor Coolant System  
Residual Heat Removal System  
Safety Injection System

### Class 2

A total of forty-six (46) examinations were performed on the following Class 2 components and examination areas:

#### Vessels

Steam Generator 1D (Secondary Side)  
Excess Letdown Heat Exchanger 1A

#### Piping

Auxiliary Feedwater System  
Feedwater System  
Main Steam System  
Residual Heat Removal 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:

	<u>IRE04</u>	<u>Cumulative (1st Interval)</u>
Class 1(IWB)	20%	51%
Class 2(IWC)	15%	46%



## 2.3 Personnel, Procedures, and Equipment

### 2.3.1 Personnel Qualifications

HL&P QC NDE personnel or contractors certified in accordance with the HL&P Procedure for qualification and certification of NDE personnel performed all examinations. 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 1RE04 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

A list of all major equipment used during the 1RE04 ISI is contained in Appendix 2-B.

### 2.3.4 Materials

NDE materials utilized during 1RE04 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. A list of these material and traceability numbers is included in Appendix 2-B.

### 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 bolting.

VT-3 examination was performed on the Reactor Vessel (RV) Interior

#### PT Examinations

PT examinations were performed on RV Closure Head studs, piping welds, pressurizer nozzle safe end welds, and integrally welded attachments.

#### MT Examinations

MT examinations were performed on RV Closure Head studs and nuts, piping welds, integrally welded attachments and a nozzle-to-shell weld.

#### UT Examinations

UT examinations were performed on Class 1 and 2 components, including vessels, bolting austenitic piping, and ferritic piping. 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

Augmented ISI - IEB 79-17

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 indications standards, additional examinations are required as prescribed in IWB-2430 and IWC-2430. No additional examinations (IWB-2430 or 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. Appendix 2-D, ISI Examination Limitations, contains a detailed account of all examination limitations (UT, PT, and MT) encountered during 1RE04 weld examinations.

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. The UT examinations revealed Code-allowable UT45 and UT60 degree indications in a Steam Generator shell weld and Code-allowable zero-degree indications in an Excess Letdown Heat Exchanger shell weld. These same flaws were also detected during PSI and have not changed.

No reportable indications were detected by volumetric (UT), surface (PT and MT), or visual (VT) examinations.

## 2.6 Certification of Inspections

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

APPENDIX 2-A

SUMMARY OF EXAMINATIONS

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 3RED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

PAGE: 1

REACTOR PRESSURE VESSEL

SUMMARY EXAMINATION AREA		ASME			N	D		
		SEC. XI			O	G	T	
		CATGY	EXAM		R	E	H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	D	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
<hr/>								
<u>CLOSURE HEAD BOLTING (FIG NO A-RPV-3A,B)</u>								
005302	2A	B-G-1	MT	NDL 7.2 RD	X	-	-	UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-	NUT IN LIEU OF MT IN THIS AREA.
			UT43		X	-	-	**CS-46**
005305	5A	B-G-1	MT	NDEP 7.2 RD	X	-	-	UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-	NUT IN LIEU OF MT IN THIS AREA.
			UT43		X	-	-	**CS-46**
005308	8A	B-G-1	MT	NDEP 7.2 RD	X	-	-	UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-	NUT IN LIEU OF MT IN THIS AREA.
			UT43		X	-	-	**CS-46**
005311	11A	B-G-1	MT	NDEP 7.2 RD	X	-	-	UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-	NUT IN LIEU OF MT IN THIS AREA.
			UT43		X	-	-	**CS-46**
005314	14A	B-G-1	MT	NDEP 7.2 RD	X	-	-	UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-	NUT IN LIEU OF MT IN THIS AREA.
			UT43		X	-	-	**CS-46**
005317	17A	B-G-1	MT	NDEP 7.2 RD	X	-	-	UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-	NUT IN LIEU OF MT IN THIS AREA.
			UT43		X	-	-	**CS-46**
005320	20A	B-G-1	MT	NDEP 7.2 RD	X	-	-	UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-	NUT IN LIEU OF MT IN THIS AREA.
			UT43		X	-	-	**CS-46**

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

PAGE: 2

REACTOR PRESSURE VESSEL

SUMMARY EXAMINATION AREA		ASME			N	O	
		SEL. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>CLOSURE HEAD BOLTING (FIG NO A-RPV-3A,B)</u>							
005323	23A	B-G-1	MT	NDEP 7.2 RD	X	-	-
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-
			UT43		X	-	-
					UT PERFORMED ON THE THREADED AREA OF THE NUT IN LIEU OF MT IN THIS AREA.		
					**CS-46**		
005326	26A	B-G-1	MT	NDEP 7.2 RD	X	-	-
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-
			UT43		X	-	-
					UT PERFORMED ON THE THREADED AREA OF THE NUT IN LIEU OF MT IN THIS AREA.		
					**CS-46**		
005329	29A	B-G-1	MT	NDEP 7.2 RD	X	-	-
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-
			UT43		X	-	-
					UT PERFORMED ON THE THREADED AREA OF THE NUT IN LIEU OF MT IN THIS AREA.		
					**CS-46**		
005332	32A	B-G-1	MT	NDEP 7.2 RD	X	-	-
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-
			UT43		X	-	-
					UT PERFORMED ON THE THREADED AREA OF THE NUT IN LIEU OF MT IN THIS AREA.		
					**CS-46**		
005335	35A	B-G-1	MT	NDEP 7.2 RD	X	-	-
	CLOSURE NUT	B6.10	UT0	UT1-011 RD	X	-	-
			UT43		X	-	-
					UT PERFORMED ON THE THREADED AREA OF THE NUT IN LIEU OF MT IN THIS AREA.		
					**CS-46**		
005402	2A	B-G-1	PT	NDEP 6.6 RD	X	-	-
	CLOSURE STUD	P1.30	MT	NDEP 7.2 RD	X	-	-
			UT45(Shoe)	UT1-015 RD	X	-	-
			UT60(Shoe)		X	-	-
			UT60(Prb)		X	-	-
			UT80(Prb)	UT1-010 RD	X	-	-
					**CS-45A/CS-45B**		
005405	5A	B-G-1	PT	NDEP 6.6 RD	X	-	-
	CLOSURE STUD	B6.30	MT	NDEP 7.2 RD	X	-	-
			UT45(Shoe)	UT1-015 RD	X	-	-
			UT60(Shoe)		X	-	-
			UT60(Prb)		X	-	-
			UT80(Prb)	UT1-010 RD	X	-	-
					**CS-45A/CS-45B**		

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

PAGE: 3

REACTOR PRESSURE VESSEL

SUMMARY EXAMINATION AREA					N	O	REMARKS	
NUMBER	IDENTIFICATION	CATGY	EXAM	PROCEDURE	D	G	T	
		ITEM NO	METHOD		R	E	H	
					E	O	E	**CALIBRATION BLOCK**
					C	M	R	

CLOSURE HEAD BOLTING (FIG NO A-RPV-3A,B)

005408	8A CLOSURE STUD	B-G-1	PT	NDEP 6.6 RD	X	-	-	
		B6.30	MT	NDEP 7.2 RD	X	-	-	
			UT45(Shoe)	UT1-015 RD	X	-	-	
			UT60(Shoe)		X	-	-	
			UT60(Prb)		X	-	-	**CS-45A/CS-45B**
		UT80(Prb)	UT1-010 RD	X	-	-		
005411	11A CLOSURE STUD	B-G-1	PT	NDEP 6.6 RD	X	-	-	
		B6.30	MT	NDEP 7.2 RD	X	-	-	
			UT45(Shoe)	UT1-015 RD	X	-	-	
			UT60(Shoe)		X	-	-	
			UT60(Prb)		X	-	-	**CS-45A/CS-45B**
		UT80(Prb)	UT1-010 RD	X	-	-		
005414	14A CLOSURE STUD	B-G-1	PT	NDEP 6.6 RD	X	-	-	
		B6.30	MT	NDEP 7.2 RD	X	-	-	
			UT45(Shoe)	UT1-015 RD	X	-	-	
			UT60(Shoe)		X	-	-	
			UT60(Prb)		X	-	-	**CS-45A/CS-45B**
		UT80(Prb)	UT1-010 RD	X	-	-		
005417	17A CLOSURE STUD	B-G-1	PT	NDEP 6.6 RD	X	-	-	
		B6.30	MT	NDEP 7.2 RD	X	-	-	
			UT45(Shoe)	UT1-015 RD	X	-	-	
			UT60(Shoe)		X	-	-	
			UT60(Prb)		X	-	-	**CS-45A/CS-45B**
		UT80(Prb)	UT1-010 RD	X	-	-		
005420	20A CLOSURE STUD	B-G-1	PT	NDEP 6.6 RD	X	-	-	
		B6.30	MT	NDEP 7.2 RD	X	-	-	
			UT45(Shoe)	UT1-015 RD	X	-	-	
			UT60(Shoe)		X	-	-	
			UT60(Prb)		X	-	-	**CS-45A/CS-45B**
		UT80(Prb)	UT1-010 RD	X	-	-		



DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (LJLDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

PAGE: 4

REACTOR PRESSURE VESSEL

SUMMARY EXAMINATION AREA		ASME			N	D			
		SEC. XI			O	G	T		
		CATGY	EXAM			R	E	H	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**	

CLOSURE HEAD BOLTING (FIG NO A-RPV-3A,B)

005423	23A CLOSURE STUD	B-G-1	PT	NDEP 6.6 RD	X	-	-		
		B6.30	MT	NDEP 7.2 RD	X	-	-		
			UT45(Shoe)	UT1-015 RD	X	-	-		
			UT60(Shoe)		X	-	-		
			UT60(Prb)		X	-	-	**CS-45A/CS-45B**	
		UT80(Prb)	UT1-010 RD	X	-	-			
005426	26A CLOSURE STUD	B-G-1	PT	NDEP 6.6 RD	X	-	-		
		B6.30	MT	NDEP 7.2 RD	X	-	-		
			UT45(Shoe)	UT1-015 RD	X	-	-		
			UT60(Shoe)		X	-	-		
			UT60(Prb)		X	-	-	**CS-45A/CS-45B**	
		UT80(Prb)	UT1-010 RD	X	-	-			
005429	29A CLOSURE STUD	B-G-1	PT	NDEP 6.6 RD	X	-	-		
		B6.30	MT	NDEP 7.2 RD	X	-	-		
			UT45(Shoe)	UT1-015 RD	X	-	-		
			UT60(Shoe)		X	-	-		
			UT60(Prb)		X	-	-	**CS-45A/CS-45B**	
		UT80(Prb)	UT1-010 RD	X	-	-			
005432	32A CLOSURE STUD	B-G-1	PT	NDEP 6.6 RD	X	-	-		
		B6.30	MT	NDEP 7.2 RD	X	-	-		
			UT45(Shoe)	UT1-015 RD	X	-	-		
			UT60(Shoe)		X	-	-		
			UT60(Prb)		X	-	-	**CS-45A/CS-45B**	
		UT80(Prb)	UT1-010 RD	X	-	-			
005435	35A CLOSURE STUD	B-G-1	PT	NDEP 6.6 RD	X	-	-		
		B6.30	MT	NDEP 7.2 RD	X	-	-		
			UT45(Shoe)	UT1-015 RD	X	-	-		
			UT60(Shoe)		X	-	-		
			UT60(Prb)		X	-	-	**CS-45A/CS-45B**	
		UT80(Prb)	UT1-010 RD	X	-	-			

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - TRED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

PAGE: 5

REACTOR PRESSURE VESSEL

SUMMARY EXAMINATION AREA		ASME			N	O		
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	O	G	T	
		ITEM NO	METHOD	PROCEDURE	R	E	H	REMARKS
					E	O	E	
					C	M	R	**CALIBRATION BLOCK**

CLOSURE HEAD BOLTING (FIG NO A-RPV-3A,B)

005602	2A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	
005605	5A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	
005608	8A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	
005611	11A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	
005614	14A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	
005617	17A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	
005620	20A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	
005623	23A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	

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 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

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REACTOR PRESSURE VESSEL

SUMMARY EXAMINATION AREA		ASME			N	D		
		SEC. XI			O	G		
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**

CLOSURE HEAD BOLTING (FIG NO A-RPV-3A,B)

005626	26A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	
005629	29A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	
005632	32A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	
005635	35A CLOSURE WASHER	B-G-1 B6.50	VT-1	NDEP 9.3 R1	X	-	-	

VESSEL INTERIOR (FIG NO A-RPV-1)

006200	VESSEL INTERIOR	B-N-1 B13.10	VT-3	NDEP 9.3 R1	X	-	-	EXAMINED THE ACCESSIBLE AREAS WHICH INCLUDED THE FLANGE SEAL SURFACE AND THE OUTLET NOZZLE BORE REGION.
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DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - TRED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

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PRESSURIZER

SUMMARY EXAMINATION AREA				N	D		
				O	G	T	
				R	E	H	
				E	O	E	
NUMBER	IDENTIFICATION	CATGY	EXAM	ITEM NO	METHOD	PROCEDURE	REMARKS
							**CALIBRATION BLOCK**

NOZZLE TO SAFE-END AND SAFE-END TO NOZZLE WELDS (FIG NO A-PRZ-1)

012100	PRZ-1-N4B-SE	B-F	PT	NDEP 6.2 R4	X	-	-	92 - UT45/45T RL ON THE WELD AND BOTH
	SAFETY NOZZLE	B5.40	UT45	UT1-001 R1	X	-	-	SIDES OF THE WELD: SS-70. UT45/45T
			UT45T		X	-	-	REFRACTED SHEAR ON THE WELD AND FROM THE
			UT45	UT1-005 R1	X	-	-	NOZZLE SIDE: CSCL-69.
			UT45T		X	-	-	**CSCL-69/SS-70**
012200	PRZ-1-N4C-SE	B-F	PT	NDEP 6.2 R4	X	-	-	92 - UT45/45T RL ON THE WELD AND BOTH
	SAFETY NOZZLE	B5.40	UT45	UT1-001 R1	X	-	-	SIDES OF THE WELD: SS-70. UT45/45T
			UT45T		X	-	-	REFRACTED SHEAR ON THE WELD AND FROM THE
			UT45	UT1-005 R1	X	-	-	NOZZLE SIDE: CSCL-69.
			UT45T		X	-	-	**CSCL-69/SS-70**

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 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

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STEAM GENERATOR 1B (PRIMARY SIDE)

SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	
						E	O	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	REMARKS

HEAD WELDS (FIG NO A-SG-2)

016000	SG-1B-SR1	B-B	UT0W	UT1-004 R0	X	-	-	92 - NO UT FROM THE SUPPORT RING SIDE
	CHANNEL HEAD CAP TO SUPPORT	B2.31	UT45	UT1-017 R0	X	-	-	DUE TO SUPPORT RING CONFIGURATION.
	RING		UT45T		X	-	-	
			UT60		X	-	-	
			UT60T		X	-	-	**CSCL-36**
016100	SG-1B-SR2	B-B	UT0W	UT1-004 R0	X	-	-	92 - LIMITED UT FROM THE TUBE PLATE SIDE
	SUPPORT RING TO TUBE PLATE	B2.40	UT45	UT1-017 R0	-	X	-	DUE TO PROXIMITY OF WELDED PLATES. NO
			UT45T		X	-	-	UT FROM THE SUPPORT RING SIDE DUE TO
			UT60		-	X	-	SUPPORT RING CONFIGURATION.
			UT60T		X	-	-	**CSCL-36**

NOZZLE TO VESSEL LOWER HEAD WELDS (FIG NO A-SG-2)

016200	SG-1B-IN	B-D	UT0W	UT1-004 R0	X	-	-	92 - LIMITED UT FROM THE NOZZLE SIDE DUE
	INLET NOZZLE TO CHANNEL HEAD	B3.130	UT45	UT1-017 R0	X	-	-	TO NOZZLE CONFIGURATION AND FROM THE
	CAP		UT45T		X	-	-	HEAD DUE TO PROXIMITY OF VIBRATION
			UT60		X	-	-	SENSOR INSTRUMENTATION BOX.
			UT60T		X	-	-	**CSCL-36**
016300	SG-1B-ON	B-D	UT0W	UT1-004 R0	X	-	-	92 - LIMITED UT FROM THE NOZZLE SIDE DUE
	CHANNEL HEAD CAP TO OUTLET	B3.130	UT45	UT1-017 R0	X	-	-	TO NOZZLE CONFIGURATION AND FROM THE
	NOZZLE		UT45T		X	-	-	HEAD DUE TO PROXIMITY OF VIBRATION
			UT60		X	-	-	SENSOR INSTRUMENTATION BOX.
			UT60T		X	-	-	**CSCL-36**

NOZZLE INSIDE RADIUS SECTION (FIG NO A-SG-2)

016400	SG-1B-IN-1R	B-D	UT2B	UT1-016 R0	X	-	-	
	INLET NOZZLE INSIDE RADIUS	B3.140						
	SECTION							

\*\*CSCL-41\*\*

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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1REQ4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

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STEAM GENERATOR 1B (PRIMARY SIDE)

				N	O		
				O	G	T	
				R	E	H	
SUMMARY EXAMINATION AREA				E	O	E	REMARKS
NUMBER	IDENTIFICATION	CATGY	EXAM	ITEM NO	METHOD	PROCEDURE	C M R
				**CALIBRATION BLOCK**			

NOZZLE INSIDE RADIUS SECTION (FIG NO A-SG-2)

016500	SG-1B-ON-IR	B-D	UT2B	UT1-016 R0	X	-	-
	OUTLET NOZZLE INSIDE RADIUS SECTION	B3.140					

\*\*CSCL-41\*\*

MANWAY BOLTING (FIG NO A-SG-2)

016800	SG-1B-1MB	B-G-2	VT-1	NDEP 9.3 R1	X	-	-
	INLET MANWAY BOLTING	B7.30					

016900	SG-1B-0MB	B-G-2	VT-1	NDEP 9.3 R1	X	-	-
	OUTLET MANWAY BOLTING	B7.30					

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 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 3RED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

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REACTOR COOLANT SYSTEM

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N D		REMARKS
				O G T	R E H	
				E O E	C M R	**CALIBRATION BLOCK**

31-RC-1202-NSS - LOOP 2 (FIG NO A-RC-2)

100180 1	B-F	PT	NDEP 6.2 R4	X - -	92 - UT45(RL) FROM THE ELBOW AND NOZZLE
SG OUTLET NOZZLE TO ELBOW	B5.130	UT45	UT1-018 R0	X - -	SIDES: CSS-80. UT45T(RL) ON THE ELBOW
		UT45T		X - -	SIDE: CSS-80. UT45T(RS) ON THE WELD AND
		UT60	UT1-005 R1	X - -	NOZZLE SIDE: SS-79. UT60(RS) FROM THE
		UT45T		X - -	NOZZLE SIDE: CS-78.
					LIMITED UT DUE TO WELD AND NOZZLE
					CONFIGURATION.
					**CS-78/SS-79/CSS-80**

29-RC-1201-NSS - LOOP 2 (FIG NO A-RC-2)

100900 5	B-F	PT	NDEP 6.2 R4	X - -	92 - UT45(RL) FROM THE ELBOW AND NOZZLE
ELBOW TO SG INLET NOZZLE	B5.130	UT45	UT1-018 R0	X - -	SIDES: CSS-80. UT45T(RL) ON THE ELBOW
		UT45T		X - -	SIDE: CSS-80. UT45T(RS) ON THE WELD AND
		UT60	UT1-005 R1	X - -	NOZZLE SIDE: SS-79. UT60(RS) FROM THE
		UT45T		X - -	NOZZLE SIDE: CS-78.
					LIMITED UT DUE TO WELD AND NOZZLE
					CONFIGURATION.
					**CS-78/SS-79/CSS-80**

27.5-RC-1103-NSS - LOOP 1 (FIG NO A-RC-1)

101270 1	B-J	PT	NDEP 6.2 R4	X - -	92 - UT45 FROM THE PUMP SIDE: CSS-80.
REACTOR COOLANT PUMP TO PIPE	39.11	UT45	UT1-018 R0	- X -	UT45 FROM THE PIPE SIDE: CCSS-17. UT45T
		UT45T		X - -	ON THE PUMP SIDE: CSS-80. UT45T ON THE
					WELD AND PIPE SIDE: CCSS-17.
					**CCSS-17/CSS-80**

27.5-RC-1203-NSS - LOOP 2 (FIG NO A-RC-2)

101430 1	B-J	PT	NDEP 6.2 R4	X - -	92 - UT45 FROM THE PUMP SIDE: CSS-80.
REACTOR COOLANT PUMP TO PIPE	B9.11	UT45	UT1-018 R0	- X -	UT45 FROM THE PIPE SIDE: CCSS-17. UT45T
		UT45T		X - -	ON THE PUMP SIDE: CSS-80. UT45T ON THE
					WELD AND PIPE SIDE: CCSS-17.
					**CCSS-17/CSS-80**

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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1REQ4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

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REACTOR COOLANT SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	D		
		SEC. XI			O	G		
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**

16-RC-1412-NSS (FIG NO A-RC-5)

101880	3	B-J	PT	NDEP 6.2 R4	X	-	-	
	BENT PIPE TO ELBOW	B9.11	UT45	UTI-001 R1	-	X	-	
			UT45T		X	-	-	**SS-16**

101920	7	B-J	PT	NDEP 6.2 R4	X	-	-	
	PIPE TO BENT PIPE	B9.11	UT45	UTI-001 R1	-	X	-	
			UT45T		X	-	-	**SS-16**

101930	8	B-J	PT	NDEP 6.2 R4	X	-	-	
	BENT PIPE TO BENT PIPE	B9.11	UT45	UTI-001 R1	-	X	-	
			UT45T		X	-	-	**SS-16**

101940	9	B-J	PT	NDEP 6.2 R4	X	-	-	
	BENT PIPE TO BRANCH CONNECTION	B9.11	UT45	UTI-001 R1	-	X	-	
			UT45T		X	-	-	**SS-16**

12-RC-1125-BB1 (FIG NO A-RC-9)

102240	2	B-J	PT	NDEP 6.2 R4	X	-	-	92 - EXAMINED AFTER REMOVAL OF HANGER
	PIPE TO ELBOW	B9.11	UT45	UTI-001 R1	-	X	-	HL5009 (REF. SR# 15B111).
			UT45T		X	-	-	**SS-21**

12-RC-1212-BB1 (FIG NO A-RC-10)

102530	8	B-J	PT	NDEP 6.2 R4	X	-	-	92 - USED UT60 REFRACTED SHEAR FOR
	PIPE TO VALVE	B9.11	UT45	UTI-001 R1	-	X	-	ADDITIONAL COVERAGE.
			UT45T		X	-	-	
			UT60	UTI-005 R1	-	X	-	**SS-21**



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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - TRED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

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REACTOR COOLANT SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			D	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>12-RC-1221-BB1 (FIG NO A-RC-9)</u>							
102680	6	B-J	PT	NDEP 6.2 R4	X	-	-
	PIPE TO ELBOW	B9.11	UT45	UT1-001 R1	-	X	-
			UT45T		X	-	-
					**SS-21**		
102700	8	B-J	PT	NDEP 6.2 R4	X	-	-
	PIPE TO PIPE	B9.11	UT45	UT1-001 R1	-	X	-
			UT45T		X	-	-
					92 - EXAMINED AFTER REMOVAL OF HANGER HL5005 (REF. SR# 158112). **SS-21**		
<u>6-RC-1003-BB1 (FIG NO A-RC-13)</u>							
103754	11A	B-J	PT	NDEP 6.2 R4	X	-	-
	PIPE TO TEE	B9.11	UT0L	UT1-004 R0	X	-	-
			UT45	UT1-001 R1	-	X	-
			UT45T		X	-	-
					**SS-B**		
103756	11B	B-J	PT	NDEP 6.2 R4	X	-	-
	TEE TO PIPE	B9.11	UT0L	UT1-004 R0	X	-	-
			UT45	UT1-001 R1	-	X	-
			UT45T		X	-	-
					**SS-B**		
<u>6-RC-1004-NSS (FIG NO A-RC-6)</u>							
103950	7FB	B-G-2	VT-1	NDEP 9.3 R1	X	-	-
	FLANGE BOLTING (N1RCPSV3452)	B7.50					
					92 - BASELINE EXAMINATION AFTER BOLTING REPLACEMENT PER SR#115649.		
<u>6-RC-1009-NSS (FIG NO A-RC-6)</u>							
104040	1	B-J	PT	NDEP 6.2 R4	X	-	-
	SAFE END TO ELBOW	B9.11	UT45	UT1-001 R1	-	X	-
			UT45T		X	-	-
					92 - UT45/45T RL ON THE WELD AND ELBOW SIDE: SS-9. UT45/45T RL ON THE SAFE END SIDE: SS-70. **SS-9/SS-70**		

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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

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REACTOR COOLANT SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	D		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
<u>6-RC-1009-NSS (FIG NO A-RC-6)</u>								
104060	3	B-J	PT	NDEP 6.2 R4	X	-	-	
	PIPE TO RETURN ELBOW	B9.11	UT45	UT1-001 R1	-	X	-	
			UT45T		X	-	-	**SS-9**
104130	9FB	B-G-2	VT-1	NDEP 9.3 R1	X	-	-	92 - BASELINE EXAMINATION AFTER BOLTING
	FLANGE BOLTING (N1RCPSV3451)	B7.50						REPLACEMENT PER SR#115648.
<u>6-RC-1012-NSS (FIG NO A-RC-6)</u>								
104220	1	B-J	PT	NDEP 6.2 R4	X	-	-	92 - UT45/45T RL ON THE WELD AND ELBOW
	SAFE END TO ELBOW	B9.11	UT45	UT1-001 R1	-	X	-	SIDE: SS-9. UT45/45T RL ON THE SAFE END
			UT45T		X	-	-	SIDE: SS-70.
								**SS-9/SS-70**
104240	3	B-J	PT	NDEP 6.2 R4	X	-	-	92 - LIMITED UT DUE TO PROXIMITY OF
	PIPE TO ELBOW	B9.11	UT45	UT1-001 R1	-	X	-	STRUCTURAL STEEL.
			UT45T		X	-	-	**SS-9**
104320	11	B-J	PT	NDEP 6.2 R4	X	-	-	92 - USED UT60 REFRACTED SHEAR FOR
	PIPE TO FLANGE	B9.11	UT45	UT1-001 R1	-	X	-	ADDITIONAL COVERAGE.
			UT45T		X	-	-	
			UT60	UT1-005 R1	-	X	-	**SS-9**
104330	11FB	B-G-2	VT-1	NDEP 9.3 R1	X	-	-	92 - BASELINE EXAMINATION AFTER BOLTING
	FLANGE BOLTING (N1RCPSV3450)	B7.50						REPLACEMENT PER SR# 115647.
<u>3-RC-1015-NSS (FIG NO A-RC-7)</u>								
106270	3	B-J	PT	NDEP 6.2 R4	X	-	-	
	ELBOW TO PIPE	B9.21						

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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1REG4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

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REACTOR COOLANT SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	D				
		SEC. XI			O	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS		
					C	M	R	**CALIBRATION BLOCK**		

3-RC-1015-NSS (FIG NO A-RC-7)

106310	7	R-J	PT	NDEP 6.2 R4	X	-	-		
	ELBOW TO PIPE	B9.21							

2.5-RC-1003-BB1 (FIG NO A-RC-13)

107900	1	B-J	PT	NDEP 6.2 R4	X	-	-	92 - BASELINE EXAMINATION (REF. MOD 91-019).	
	TEE TO PIPE	B9.21							

107910	2	B-J	PT	NDEP 6.2 R4	X	-	-	92 - BASELINE EXAMINATION (REF. MOD 91-019).	
	PIPE TO ELBOW	B9.21							

107920	3	B-J	PT	NDEP 6.2 R4	X	-	-	92 - BASELINE EXAMINATION (REF. MOD 91-019).	
	ELBOW TO PIPE	B9.21							

107930	4	B-J	PT	NDEP 6.2 R4	X	-	-	92 - BASELINE EXAMINATION (REF. MOD 91-019).	
	PIPE TO VALVE	B9.21							

107940	5	B-J	PT	NDEP 6.2 R4	X	-	-	92 - BASELINE EXAMINATION (REF. MOD 91-019).	
	VALVE TO PIPE	B9.21							

107950	6	B-J	PT	NDEP 6.2 R4	X	-	-	92 - BASELINE EXAMINATION (REF. MOD 91-019).	
	PIPE TO VALVE	B9.21							

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 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

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RESIDUAL HEAT REMOVAL SYSTEM

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O D G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**

12-RH-1201-BB1 (FIG NO A-RH-2)

200520 2 PIPE TO ELBOW	B-J	PT		NDEP 6.2 R4	X	-	-	
	B9.11	UT45		UT1-001 R1	-	X	-	
		UT45T			X	-	-	

\*\*SS-21\*\*

200560 4 PIPE TO ELBOW	B-J	PT		NDEP 6.2 R4	X	-	-	
	B9.11	UT45		UT1-001 R1	-	X	-	
		UT45T			X	-	-	

\*\*SS-21\*\*

200700 11 PIPE TO ELBOW	B-J	PT		NDEP 6.2 R4	X	-	-	
	B9.11	UT45		UT1-001 R1	-	X	-	
		UT45T			X	-	-	

\*\*SS-21\*\*

200760 14 PIPE TO PIPE	B-J	PT		NDEP 6.2 R4	X	-	-	
	B9.11	UT45		UT1-001 R1	-	X	-	
		UT45T			X	-	-	

\*\*SS-21\*\*

8-RH-1108-BB1 (FIG NO A-RH-4)

202480 1 VALVE TO PIPE	B-J	PT		NDEP 6.2 R4	X	-	-	92 - EXAMINED AFTER REMOVAL OF HANGER HL5002 (REF. SR# 158113). USED UT60 REFRACTED SHEAR FOR ADDITIONAL COVERAGE.
	B9.11	UT45		UT1-001 R1	-	X	-	
		UT45T			X	-	-	
		UT60		UT1-005 R1	-	X	-	

\*\*SS-10\*\*

8-RH-1208-BB1 (FIG NO A-RH-2)

202920 1 VALVE TO PIPE	B-J	PT		NDEP 6.2 R4	X	-	-	92 - EXAMINED AFTER REMOVAL OF HANGER HL5003 (REF. SR# 158114). USED UT60 REFRACTED SHEAR FOR ADDITIONAL COVERAGE.
	B9.11	UT45		UT1-001 R1	-	X	-	
		UT45T			X	-	-	
		UT60		UT1-005 R1	-	X	-	

\*\*SS-10\*\*

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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

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SAFETY INJECTION SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O D O G T R E H E D E C M R			REMARKS

12-S1-1218-BB1 (FIG NO A-S1-2)

230300	3	B-J	PT	NDEP 6.2 R4	X	-	-	
	REDUCING TEE TO PIPE	B9.11	UT45	UT1-001 R1	-	X	-	
			UT45T		X	-	-	**SS-21**

230320	4	B-J	PT	NDEP 6.2 R4	X	-	-	
	PIPE TO VALVE	B9.11	UT45	UT1-001 R1	-	X	-	
			UT45T		X	-	-	**SS-21**

12-S1-1315-BB1 (FIG NO A-S1-2)

230700	10	B-J	PT	NDEP 6.2 R4	X	-	-	
	PIPE TO VALVE	B9.11	UT45	UT1-001 R1	-	X	-	
			UT45T		X	-	-	**SS-21**

8-S1-1208-BB1 (FIG NO A-S1-4)

231220	4	B-J	PT	NDEP 6.2 R4	X	-	-	92 - USED UT60 REFRACTED SHEAR FOR
	PIPE TO VALVE	B9.11	UT45	UT1-001 R1	-	X	-	ADDITIONAL COVERAGE.
			UT45T		X	-	-	
			UT60	UT1-005 R1	-	X	-	**SS-11**

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1REQ4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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STEAM GENERATOR 1D (SECONDARY SIDE)

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N D D G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**

CIRCUMFERENTIAL WELDS (FIG NO B-SG-1)

303450	SG-1D-S4	C-A	UTOW	UT1-004 R0	X	-	-	
	LOWER SHELL SECTION B TO	C1.10	UT45	UT1-017 R0	X	-	-	
	TRANSITION CONE		UT45T		X	-	-	
			UT60		X	-	-	
			UT60T		X	-	-	**CS-54**
303500	SG-1D-S5	C-A	UTOW	UT1-004 R0	X	-	-	Q2 - ONE UT45 AND FOURTEEN UT60 CODE
	TRANSITION CONE TO UPPER SHELL	C1.10	UT45	UT1-017 R0	-	-	X	ALLOWABLE INDICATIONS. THESE SAME
	SECTION C		UT45T		X	-	-	INDICATIONS WERE SEEN DURING PSI AND
			UT60		-	-	X	HAVE NOT CHANGED.
			UT60T		X	-	-	**CS-54**
303600	SG-1D-S7	C-A	UTOW	UT1-004 R0	X	-	-	
	UPPER SHELL SECTION D TO UPPER	C1.20	UT45	UT1-017 R0	X	-	-	
	HEAD		UT45T		X	-	-	
			UT60		X	-	-	
			UT60T		X	-	-	**CS-54**

NOZZLE TO SHELL WELDS AND INSIDE RADIUS SECTIONS (FIG NO B-SG-1)

303650	SG-1D-FW10	C-B	MT	NDEP 7.1 R3	X	-	-	
	FEEDWATER NOZZLE TO STUB	C2.21	UTOW	UT1-004 R0	X	-	-	
	BARREL		UT45	UT1-017 R0	X	-	-	
			UT45T		X	-	-	
			UT60		X	-	-	**CS-55**
			UT60T		X	-	-	

303700	SG-1D-FW10-1R	C-B	UT25	UT1-016 R0	X	-	-	
	INSIDE RADIUS SECTION	C2.22	UT29		X	-	-	

\*\*CSCL-41\*\*

INTEGRAL ATTACHMENTS (FIG NO B-SG-1)

303960	SG-1D-TR12	C-C	PT	NDEP 6.2 R4	X	-	-	PT PERFORMED IN LIEU OF MT DUE TO
	TRUNNION B	C3.10						LIMITED ACCESS.

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - TRED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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EXCESS LETDOWN HEAT EXCHANGER

SUMMARY EXAMINATION AREA				N O D G T R E H E D E C M R			REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C M R		**CALIBRATION BLOCK**

CIRCUMFERENTIAL WELDS (FIG NO B-ELDX-1)

308300	CSAHEL-1A-51	C-A	UT0W	UT1-004 P^	-	-	X	USED UT35 TO ENSURE SOUND BEAM
	(HEAD) SHELL TO FLANGE	C1.20	UT45	UT1-022 R0	X	-	-	IMPINGEMENT ON THE INSIDE SURFACE. 3
			UT60		X	-	-	UTO CODE ALLOWABLE INDICATIONS. THESE
			UT45T		X	-	-	SAME INDICATIONS WERE SEEN DURING PSI
			UT35T		X	-	-	(1986) AND HAVE NOT CHANGED. LIMITED UT
								DUE TO HEAD CONFIGURATION AND PROXIMITY
								OF FLANGE BOLTING.
								**SS-67**

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED04 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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AUXILIARY FEEDWATER SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	D				
		SEC. XI			O	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	D	E	REMARKS		
					C	M	R	**CALIBRATION BLOCK**		

B-AF-1008-GA2(C) (FIG NO B-AF-3)

351720	11	C-F-2	MT	NDEP 7.1 R3	X	-	-		
	ELBOW TO PIPE	C5.51	UT45	UT1-002 R1	-	X	-		

\*\*CS-2\*\*

351790	14PL1-14PLB	C-C	MT	NDEP 7.1 R3	X	-	-		
	PIPE LUGS	C3.20							

B-AF-1010-GA2(C) (FIG NO B-AF-5)

353330	19PL1-19PLB	C-C	MT	NDEP 7.1 R3	X	-	-		
	PIPE LUGS	C3.20							

353470	26PL1-26PLB	C-C	MT	NDEP 7.1 R3	X	-	-		
	PIPE LUGS	C3.20							

353520	29	C-F-2	MT	NDEP 7.1 R3	X	-	-		
	PIPE TO REDUCER	C5.51	UT45	UT1-002 R1	-	X	-		

\*\*CS-2\*\*

B-AF-1010-GA2(G) (FIG NO B-AF-6)

354040	2	C-F-2	MT	NDEP 7.1 R3	X	-	-		
	PIPE TO REDUCER	C5.51	UT45	UT1-002 R1	-	X	-		

\*\*CS-2\*\*

6-AF-1010-GA2 (FIG NO B-AF-5,6)

359660	2	C-F-2	MT	NDEP 7.1 R3	X	-	-		
	PIPE TO ELBOW	C5.51	UT45	UT1-002 R1	-	X	-		

\*\*CS-1\*\*



DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

PAGE: 20

FEEDWATER SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	O				
		SEC. XI			O	G	T			
		CATGY	EXAM			R	E	H		
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS		
					C	M	R	**CALIBRATION BLOCK**		
-----										
<u>18-FW-1018-GA2 (FIG NO B-FW-7,8)</u>										
502700	3	C-F-2	MT	NDEP 7.1 R3	X	-	-			
	VALVE TO PIPE	C5.51	UT45	UT1-002 R1	-	X	-			
								**CS-3**		
503100	23	C-F-2	MT	NDEP 7.1 R3	X	-	-			
	ELBOW TO PIPE	C5.51	UT45	UT1-002 R1	X	-	-			
								**CS-3**		
<u>18-FW-1030-AA2 (FIG NO B-FW-3)</u>										
504220	1	C-F-2	MT	NDEP 7.1 R3	X	-	-	92 - AUGMENTED ISI - BEZ.		
	ELBOW TO PIPE	C5.51	UT45	UT1-002 R1	X	-	-			
								**CS-4**		
504230	1PL1-1LPLB	C-C	MT	NDEP 7.1 R3	X	-	-			
	PIPE LUGS	C3.20								
								**CS-33**		
504240	2	C-F-2	MT	NDEP 7.1 R3	X	-	-	92 - AUGMENTED ISI - BEZ.		
	PIPE TO PIPE	C5.51	UT45	UT1-002 R1	-	X	-			
								**CS-4**		
504260	3	C-F-2	MT	NDEP 7.1 R3	X	-	-	92 - AUGMENTED ISI - BEZ.		
	PIPE TO PIPE	C5.51	UT45	UT1-002 R1	X	-	-			
								**CS-4**		
504280	4	C-F-2	MT	NDEP 7.1 R3	X	-	-	92 - AUGMENTED ISI - BEZ.		
	PIPE TO VALVE	C5.51	UT45	UT1-002 R1	X	-	-			
								**CS-4**		

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (WELDS,  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

FEEDWATER SYSTEM

SUMMARY EXAMINATION AREA				W	O	
NUMBER IDENTIFICATION				O	G	T
				R	E	H
				E	O	E
				C	M	R
				REMARKS		
				**CALIBRATION BLOCK**		

16-FW-101B-GA2 (FIG NO B-FW-8)

507640	4	C-F-2	MT	NDEP 7.1 R3	X	-	92 - THIS WELD SELECTED AS AN AUGMENTED
	PIPE TO NOZZLE	C5.51	UT45	UT1-002 R1	X	-	1S1 FOR 1EB 79-13.
			UT60		-	X	
			UT45T		X	-	
							**CS-15**

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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MAIN STEAM SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			D	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	D	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<hr/>							
<u>30-MS-1004-GA2 (FIG NO B-MS-7,B)</u>							
558680	22LU LONGITUDINAL WELD	C-F-2 C5.52	MT UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-
					92 - EXAMINED 100% OF WELD LENGTH. AUGMENTED ISI - BEZ.		
					**CS-5**		
558700	22 PIPE TO PENETRATION	C-F-2 C5.51	MT UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-
					92 - AUGMENTED ISI - BEZ.		
					**CS-5**		
558760	23 PIPE TO PIPE	C-F-2 C5.51	MT UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-
					92 - AUGMENTED ISI - BEZ.		
					**CS-5**		
558780	23LD LONGITUDINAL WELD	C-F-2 C5.52	MT UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-
					92 - EXAMINED 100% OF WELD LENGTH. AUGMENTED ISI - BEZ.		
					**CS-33**		
558800	24LU LONGITUDINAL WELD	C-F-2 C5.52	MT UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-
					92 - EXAMINED 100% OF WELD LENGTH. AUGMENTED ISI - BEZ.		
					**CS-33**		
558820	24 PIPE TO PIPE	C-F-2 C5.51	MT UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-
					92 - AUGMENTED ISI - BEZ.		
					**CS-33**		
558840	24LD LONGITUDINAL WELD	C-F-2 C5.52	MT UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-
					92 - EXAMINED 100% OF WELD LENGTH. AUGMENTED ISI - BEZ.		
					**CS-35**		

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED04 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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MAIN STEAM SYSTEM

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME		EXAM METHOD	PROCEDURE	N O D G T R E H E D E C M R		REM'RKS	
		SEC. XI	CATGY			ITEM NO	CH		R
<u>30-MS-1004-GA2 (FIG NO B-MS-7,B)</u>									
558842	24ALU LONGITUDINAL WELD	C-F-2	MT	UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-	92 - EXAMINED 100% OF WELD LENGTH. AUGMENTED ISI - BEZ.  **CS-35**
558844	24A PIPE TO PIPE	C-F-2	MT	UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-	92 - AUGMENTED ISI - BEZ.  **CS-35**
558846	24ALD LONGITUDINAL WELD	C-F-2	MT	UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-	92 - EXAMINED 100% OF WELD LENGTH. AUGMENTED ISI - BEZ.  **CS-35**
558848	24BLU LONGITUDINAL WELD	C-F-2	MT	UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-	92 - EXAMINED 100% OF WELD LENGTH. AUGMENTED ISI - BEZ.  **CS-35**
558850	24B PIPE TO PIPE	C-F-2	MT	UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-	92 - AUGMENTED ISI - BEZ.  **CS-35**
558852	24BLD LONGITUDINAL WELD	C-F-2	MT	UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-	92 - EXAMINED 100% OF WELD LENGTH. AUGMENTED ISI - BEZ.  **CS-35**
<u>16-MS-1004-GA2 (FIG NO B-MS-B)</u>									
561080	1 EXTRUSION TO PIPE	C-F-2	MT	UT45	NDEP 7.1 R3 UT1-002 R1	X	-	-	92 - AUGMENTED ISI - BEZ.  **CS-15**

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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MAIN STEAM SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	O			
		SEC. XI			D	G	T		
		CATGY	EXAM			E	O	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**	

16-MS-1004-GA2 (FIG NO B-MS-8)

561100	2	C-F-2	MT	NDEP 7.1 R3	X	-	-	92 - AUGMENTED ISI - BEZ.	
	PIPE TO WELD CAP	C5.51	UT45	UT1-002 R1	X	-	-		
**CS-15**									

12-MS-1103-GA2 (FIG NO B-MS-9)

561620	3	C-F-2	MT	NDEP 7.1 R3	X	-	-		
	PIPE TO ELBOW	C5.51	UT45	UT1-002 R1	-	X	-		
**CS-14**									

8-MS-1103-GA2 (FIG NO B-MS-9)

563840	1	C-F-2	MT	NDEP 7.1 R3	X	-	-		
	REDUCER TO PIPE	C5.51	UT45	UT1-002 R1	-	X	-		
**CS-2**									

6-MS-1004-GA2(A) (FIG NO B-MS-8)

567900	1	C-F-2	MT	NDEP 7.1 R3	X	-	-	92 - AUGMENTED ISI - BEZ.	
	EXTRUSION TO FLANGE	C5.51	UT45	UT1-002 R1	X	-	-		
**CS-75**									

6-MS-1004-GA2(B) (FIG NO B-MS-8)

568000	1	C-F-2	MT	NDEP 7.1 R3	X	-	-	92 - AUGMENTED ISI - BEZ.	
	EXTRUSION TO FLANGE	C5.51	UT45	UT1-002 R1	X	-	-		
**CS-75**									

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

RESIDUAL HEAT REMOVAL SYSTEM

SUMMARY EXAMINATION AREA		ASME	EXAM		N	D	REMARKS
NUMBER IDENTIFICATION		SEC. XI	CATGY	METHOD	O	G	
		ITEM NO	UT45	PROCEDURE	R	E	
		UT45T			H		
					E	O	**CALIBRATION BLOCK**
					C	M	
					R		
<u>B-RH-1111-BB2 (FIG NO B-RH-7)</u>							
614620	3	C-F-1	PT	NDEP 6.2 R4	X	-	
	ELBOW TO PIPE	C5.11	UT45	UT1-001 R1	-	X	
			UT45T		X	-	**SS-11**
614660	5	C-F-1	PT	NDEP 6.2 R4	X	-	
	PIPE TO VALVE	C5.11	UT45	UT1-001 R1	-	X	
			UT45T		X	-	**SS-11**

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1REQ4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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SAFETY INJECTION SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	
					C	M	R	
					REMARKS			
					**CALIBRATION BLOCK**			

16-SI-1201-UB2 (FIG NO B-SI-4)

705280	5	C-F-1	PT	NDEP 6.2 R4	X	-	-	92 - LIMITED UT DUE TO VALVE
	VALVE TO PIPE	C5.11	UT45	UT1-012 R0	X	-	-	CONFIGURATION.
			UT45T		X	-	-	**SS-30**

705300	5LD	C-F-1	PT	NDEP 6.2 R4	X	-	-	92 - EXAMINED 2.5T AT THE INTERSECTING
	LONGITUDINAL WELD	C5.12	UT45	UT1-012 R0	X	-	-	CIRC. WELD.
			UT45T		X	-	-	**SS-30**

705460	9	C-F-1	PT	NDEP 6.2 R4	X	-	-	
	10-IN. BRANCH CONNECTION	C5.41						

705810	14PL1-B	C-C	PT	NDEP 6.2 R4	X	-	-	
	PIPE LUGS	C3.20						

12-SI-1201-UB2 (FIG NO B-SI-4)

711720	2LU	C-F-1	PT	NDEP 6.2 R4	X	-	-	92 - EXAMINED 2.5T AT THE INTERSECTING
	LONGITUDINAL WELD	C5.12	UT0L	UT1-004 R0	X	-	-	CIRC. WELD.
			UT45	UT1-012 R0	X	-	-	
			UT45T		X	-	-	**SS-13**

711740	2	C-F-1	PT	NDEP 6.2 R4	X	-	-	
	PIPE TO ELBOW	C5.11	UT0L	UT1-004 R0	X	-	-	
			UT45	UT1-012 R0	X	-	-	
			UT45T		X	-	-	**SS-13**

711760	2LD	C-F-1	PT	NDEP 6.2 R4	X	-	-	92 - EXAMINED 2.5T AT THE INTERSECTING
	LONGITUDINAL WELD	C5.12	UT0L	UT1-004 R0	X	-	-	CIRC. WELD.
			UT45	UT1-012 R0	X	-	-	
			UT45T		X	-	-	**SS-13**

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 IN-SERVICE INSPECTION SUMMARY - 1RE04 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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SAFETY INJECTION SYSTEM

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N D			REMARKS
					O	C	T	
					E	O	E	**CALIBRATION BLOCK**
					C	M	R	

10-SI-1201-UB2 (FIG NO B-SI-4)

718220	7LU LONGITUDINAL WELD	C-F-1 --	PT UTDL UT45 UT45T	NDEP 6.2 R4 UT1-004 R0 UT1-012 R0	X X X X	- - - -	- - - -	92 - AUGMENTED ISI - 1EB 79-17. EXAMINED 2.5T AT THE INTERSECTING CIRC. WELD.  **SS-B7**
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718260	7 ELBOW TO PIPE	C-F-1 --	PT UTDL UT45 UT45T	NDEP 6.2 R4 UT1-004 R0 UT1-012 R0	X X X X	- - - -	- - - -	92 - AUGMENTED ISI - 1EB 79-17.    **SS-B7**
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718280	7LD LONGITUDINAL WELD	C-F-1 --	PT UTDL UT45 UT45T	NDEP 6.2 R4 UT1-004 R0 UT1-012 R0	X X X X	- - - -	- - - -	92 - AUGMENTED ISI - 1EB 79-17. EXAMINED 2.5T AT THE INTERSECTING CIRC. WELD.  **SS-B7**
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6-SI-1110-BB2 (FIG NO B-SI-14)

735160	1 VALVE TO PIPE	C-F-1 C5.11	PT UT45 UT45T	NDEP 6.2 R4 UT1-001 R1	X -	- X	- -	   **SS-B**
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6-SI-1206-DB2 (FIG NO B-SI-15,16)

739320	24 PENETRATION TO PIPE	C-F-1 C5.11	PT UT45 UT45T	NDEP 6.2 R4 UT1-005 R1	X -	- X	- -	   **SS-23**
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739340	25 PIPE TO ELBOW	C-F-1 C5.11	PT UT45 UT45T	NDEP 6.2 R4 UT1-005 R1	X -	- X	- -	   **SS-23**
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DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (WELDS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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SAFETY INJECTION SYSTEM

SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	R
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		

6-SI-1206-DB2 (FIG NO B-SI-15,16)

739360	26	C-F-1	PT	NDEP 6.2 R4	X	-	-	
	ELBOW TO PIPE	C5.11	UT45	UT1-005 R1	X	-	-	
			UT45T		X	-	-	**SS-23**
739380	27	C-F-1	PT	NDEP 6.2 R4	X	-	-	
	PIPE TO VALVE	C5.11	UT45	UT1-005 R1	-	X	-	
			UT45T		X	-	-	**SS-23**
739400	28	C-F-1	PT	NDEP 6.2 R4	X	-	-	
	VALVE TO PIPE	C5.11	UT45	UT1-005 R1	X	-	-	
			UT45T		X	-	-	**SS-23**

APPENDIX 2-B

PERSONNEL/EQUIPMENT/MATERIALS

APPENDIX 2-B

PERSONNEL QUALIFICATIONS

<u>Name</u>	<u>Company</u>	<u>UT</u>	<u>MT</u>	<u>PT</u>	<u>VT</u>
Groanvelt, H. L.	GTS	II	II	II	II
Mayer, K. J.	GTS	II	II	II	II
Severtson, R. J.	GTS	II	*	II	*
Trotter, E. J.	GTS	II	II	II	III
Pennanen, A. R.	NES	III	III	III	II
Busby, R. S.	HL&P	*	*	*	II
Halley, J. F.	HL&P	II	II	II	II
Hubbard, S. K.	HL&P	III	III	III	III
Silva, P.	HL&P	*	*	II	*
Spiess, L. D.	HL&P	II	II	II	II
Stuhler, D. A.	HL&P	II	II	II	II
Suhler, C. D.	HL&P	II	II	II	II

Company

GTS - GTS Duratek

NES - Nuclear Energy Services

HL&P - Houston Lighting & Power Company

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

## APPENDIX 2-B

### MATERIAL AND EQUIPMENT

#### MATERIAL

##### Type

PT Cleaner SKC-NF/ZC-7B, Magnaflux, Batch 92D02P  
PT Penetrant SKL-HF/S, Magnaflux, Batch Nos. 84L058 and 89K01K  
PT Penetrant ZL-60C, Magnaflux, Batch No. 89B042  
PT Developer SKD-NF/ZP-9B, Magnaflux, Batch 92C02P

MT Powder, Gray No. 1  
MT Powder, Red No. 8A  
MT Fluorescent MT Mixture, Circle Safe No. 778A

Sonotrace 40, Batch Nos. 9091, 9094, and 92054

#### EQUIPMENT

#### SERIAL NO.

Thermometer	100-00520-10
Thermometer	100-00520-31
Thermometer	100-00520-36
Thermometer	100-00520-59
Thermometer	100-00520-61
Thermometer	100-00520-66
Thermometer	100-00520-72
Thermometer	100-00520-76
Thermocouple	100-00534-69
Thermocouple	100-00534-70
Thermocouple	100-00534-71
Thermocouple	100-00534-72
Thermocouple	100-00580-13
Thermocouple	100-00580-29
Thermocouple	100-00580-32
Thermocouple	100-00580-39
Thermocouple	100-00580-43
Thermocouple	100-00580-46

APPENDIX 2-B  
HL&P MATERIAL AND EQUIPMENT, cont'd

<u>EQUIPMENT</u>	<u>SERIAL NO.</u>
MT Yoke, Magnaflux, Y-6	Y6-01, -05, -06
MT Yoke, Electro-Spect, ES-X	ESX-05, -10
Krautkramer Branson, USD-7D	100-01303-001
Krautkramer Branson, USK-7D	100-01328-002
Krautkramer Branson, USK-7D	100-01328-003
Krautkramer Branson, USK-7D	100-01328-004
Krautkramer Branson, USK-7D	100-01328-005
UV Meter	100-01312-002
Dry Film Thickness Gage	100-01308-006

TRANSDUCERS

00535	D1523
00540	D15237
1-8282	D15238
2158-920003-R6/45	D16203
2158-92004-R7/45	D16204
2158-92004/45	D16205
2158-9200-1-R0/45	D16207
22633	DE12550
22646	F14717
56526-00579/70	G27259
9240-92001-R0/60	K09800
9240-92001-R1/60	K09800
9240-92001-R2/80	K23811
9240-92002-R6/80	L03856
B07336	L03859
B07339	L18549
B12139	L20963
B13204	ST828
B21228	ST833
B-19202SP	ST836
D13212	
D13213	
D13214	

APPENDIX 2-C

HL&P PROCEDURES

APPENDIX 2-C  
HL&P PROCEDURES

Procedure No.	Title
NDEP 4.0 Rev. 3	Ultrasonic Examination
NDEP 6.2 Rev. 4	Color Contrast Solvent Removable Liquid Penetrant Examination of ASME XI PSI/ISI
NDEP 6.6 Rev. 0	Fluorescent Water-Washable Liquid Penetrant Examination of Roto-Lok Studs
NDEP 7.1 Rev. 3	Dry Powder Magnetic Particle Examination for ASME XI PSI/ISI
NDEP 7.2 Rev. 0	Wet Fluorescent Magnetic Particle Examination for ASME XI PSI/ISI
NDEP 9.3 Rev. 1	ASME XI Examination for VT-1 and VT-3
UTI-001 Rev. 1	Manual Ultrasonic Examination of Austenitic Pressure Piping Welds Using Refracted Longitudinal Technique
UTI-002 Rev. 1	Manual Ultrasonic Examination of Ferritic Pressure Piping Welds
UTI-004 Rev. 0	Manual Ultrasonic Examination Using Longitudinal Wave Straight-Beam Technique
UTI-005 Rev. 1	Manual Ultrasonic Examination of Austenitic Pressure Piping Welds
UTI-006 Rev. 1	Manual Ultrasonic Indication Sizing
UTI-007 Rev. 0	Recording Indications During Ultrasonic Examinations
UTI-008 Rev. 0	Weld Joint Identification
UTI-010 Rev. 0	Manual Ultrasonic Examination of the Center-Drilled Hole Surface in Pressure Retaining Studs Greater Than 2 Inches in Diameter
UTI-011 Rev. 0	Manual Ultrasonic Examination of Reactor Vessel Closure Head Round Nuts
UTI-012 Rev. 0	Manual Ultrasonic Examination of Thin Wall Piping Welds

- UTI-015 Rev. 0 Manual Ultrasonic Examination of Reactor Pressure Vessel Studs
- UTI-016 Rev. 0 Manual Ultrasonic Examination of Vessel-to-Nozzle Inner Radius Sections
- UTI-017 Rev. 0 Manual Ultrasonic Examination of Ferritic Pressure Vessel Welds (Greater Than 2 to 12 Inches in Thickness)
- UTI-018 Rev. 0 Manual Ultrasonic Examination of Centrifugally Cast and Static Cast Stainless Steel Piping Welds
- UTI-022 Rev. 0 Manual Ultrasonic Examination of Pressure Vessel Welds (0.4 to Less Than 2.0 Inches in Thickness)



APPENDIX 2-D

ISI EXAMINATION LIMITATIONS

## APPENDIX 2-D

### ISI EXAMINATION LIMITATIONS

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## SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1 SUMMARY OF INSERVICE EXAMINATION LIMITATIONS

The following tables provide details on the limitations which were encountered during the inservice examinations (ISI) at the South Texas Project Electric Generating Station (STP), Unit 1. 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:

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

where a = one direction only percentage  
 b = two direction percentage

Examples:

(1) none 1 dir 2 dir  
 0% 0% 100%

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

(2) none 1 dir 2 dir  
 0% 100% 0%

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

(3) none 1 dir 2 dir  
 50% 50% 0%

$$c = \frac{50 + 2*0}{2} = 25\% \text{ effective coverage}$$

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

1992 1RE04 ISI

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

## ASME CATEGORY B-B

SYSTEM: STEAM GENERATOR (CLASS 1)

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - EXAMINATION METHOD	EXAM TYPE	% COVERAGE				EFF. COV.	TOTAL	LIMITATION
			NONE	1 DIR ONLY	2 DIR				
I	SG-1B	UT0	31	-	-	69		NO UT FROM THE SUPPORT RING SIDE DUE TO SUPPORT RING CONFIGURATION. LIMITED UT FROM HEAD SIDE DUE TO PROXIMITY OF INLET/OUTLET NOZZLE WELDS.	
B-B	SR1	UT45	11	57	32	61			
B2.31	FIGURE NO. A-SG-2	UT45T	31	0	69	69			
VOL	HEAD-TO-SUPPORT RING	UT60	11	77	12	51			
	UT	UT60T	31	0	69	69	64		
I	SG-1B	UT0	33	-	-	67		NO UT FROM THE SUPPORT RING SIDE DUE TO SUPPORT RING CONFIGURATION. LIMITED UT FROM THE TUBE PLATE SIDE DUE TO PROXIMITY OF WELDED PLATES.	
B-B	SR2	UT45	9	56	35	63			
B2.40	FIGURE NO. A-SG-2	UT45T	33	0	67	67			
VCL	SPPT RING-TO-TUBE PLATE	UT60	8	74	18	55			
	UT	UT60T	33	0	67	67	64		

# ASME SECTION XI CODE COVERAGE LIMITATIONS

1992 IRE04 IS

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

## ASME CATEGORY B-D

SYSTEM: STEAM GENERATOR (CLASS 1)

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - EXAMINATION METHOD	EXAM TYPE	% COVERAGE				TOTAL	LIMITATION
			NONE	1 DIR ONLY	2 DIR	EFF. COV.		
1 B-D B3.130 VOL	SG-1B	UT0	32	-	-	68	63	LIMITED UT FROM THE HEAD SIDE DUE TO PROXIMITY OF VIBRATION SENSOR INSTRUMENTATION BOX. LIMITED UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION
	IN	UT45	12	57	31	60		
	FIGURE NO. A-SG-2	UT45T	32	0	68	68		
	NOZZLE-TO-SHELL	UT60	16	67	17	51		
	UT60T	32	0	68	68			
	UT							
1 -D B3.130 VOL	SG-1B	UT0	32	-	-	68	63	LIMITED UT FROM THE HEAD SIDE DUE TO PROXIMITY OF VIBRATION SENSOR INSTRUMENTATION BOX. LIMITED UT FROM THE NOZZLE SIDE DUE TO NOZZLE CONFIGURATION
	ON	UT45	12	57	31	60		
	FIGURE NO. A-SG-2	UT45T	32	0	68	68		
	SHELL-TO-NOZZLE	UT60	17	67	16	50		
	UT60Y	32	0	68	68			
	UT							

ASME SECTION XI CODE COVERAGE LIMITATIONS

1992 1RE04 ISI

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

ASME CATEGORY B-F

SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS 1 PIPING)

CLASS CATGY	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE	EXAM TYPE	% COVERAGE				LIMITATION	
			NON-DIR	1 DIR ONLY	2 DIR	EFF. COV		
ITEM NO. EXM RQT	- EXAMINATION METHOD					TOTAL		
1 B-F BS 130 VOL/SURF	31-RC-1202 1 FIGURE NO. A-RC-2 NOZZLE-TO-ELBOW	UT45/60	0	50	50	75	83	LIMITED UT FROM BOTH SIDES AND ON THE WELD DUE TO WELD CONFIGURATION AND SIZE OF THE SEARCH UNIT.
		UT45T	10	0	90	90		
		UT/PT	PT	0	-	-		
1 B-F BS 130 VOL/SURF	29-RC-1201 5 FIGURE NO. A-RC-2 ELBOW-TO-NOZZLE	UT45/60	0	63	37	69	80	LIMITED UT FROM BOTH SIDES AND ON THE WELD DUE TO WELD CONFIGURATION AND SIZE OF THE SEARCH UNIT.
		UT45T	9	0	91	91		
		UT/PT	PT	0	-	-		



ASME SECTION XI CODE COVERAGE LIMITATIONS

1992 1RE04 ISI

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

ASME CATEGORY C-A

SYSTEM: SAFETY INJECTION (CLASS 2)

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - EXAMINATION METHOD	EXAM TYPE	% COVERAGE					LIMITATION
			NONE	1 DIR ONLY	2 DIR	EFF. COV.	TOTAL	
2	CSAHEL-1A	UT0W	31	-	-	69		LIMITED UT45 AND UT60 FROM THE HEAD SIDE DUE TO HEAD CONFIGURATION. NO UT45/UT60/UT0/UT45T/UT35T ON THE FLANGE SIDE DUE TO PROXIMITY OF FLANGE BOLTING.
C-A	S1	UT45	0	6	94	97		
Cl.20	FIGURE NO. B-ELDN-1	UT60	0	6	94	97		
VOL	(HEAD)SHELL-TO-FLANGE	UT45T	31	0	69	69		
	UT						80	

ASME SECTION XI CODE COVERAGE LIMITATIONS

1992 1RE04 IS1

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

ASME CATEGORY C-F-1

SYSTEM: SAFETY INJECTION (CLASS 2)

CLASS CATGY ITEM NO. EXM RQT	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION - WELD ID FIGURE - EXAMINATION METHOD	EXAM TYPE	% COVERAGE				LIMITATION
			NONE	1 DIR ONLY	2 DIR	EFF. COV.	
2	16-SI-1201	UT45	22	17	61	70	LIMITED UT ON THE VALVE SIDE DUE TO VALVE CONFIGURATION.
C-F-1	5	UT45T	0	0	100	100	
CS.11 VOL/SURF	FIGURE NO. B-SI-4  VALVE-TO-PIPE					85	
	UT/PT	PT	0	-	-	-	100

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 1      4. Owner and Certificate of Authorization (if required) N.A.
5. Commercial Service Date 08/25/88    6. National Board Number for Unit N.A.
7. Components Inspected      **ASME Code Class 1 (IWB) Items - Welds Program**  
 (See Pages 3 of 4 and 4 of 4 for Identification Numbers)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Reactor Pressure Vessel	Combustion Engineering/ Westinghouse (M)	11073	22190
Pressurizer	Westinghouse (M)	2141	W18590
Steam Generator 1B	Westinghouse (M)	2132	W18692
Class 1 Piping	Ebasco (I)	N.A.	N.A.

HL&P by R. L. Beverly Date 3/23/93      Factory Mutual by B. R. Russell Date 3-24-93  
 R. L. Beverly      System      B. R. Russell, ANII

FORM NIS-1 (Back)

8. Examination Dates 9/25/92 to 11/23/92 9. Inspection Interval from 08/25/88 to 08/25/98

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 1RE04 Summary Report for list of examinations performed. The examinations performed this outage constitute 20% of the required examinations for the current interval. The cumulative percentage completed for the interval is 51%.

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 3-23 19 93 Signed Houston Lighting & Power Co. By R. L. 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 8-15-92 to 3-24-93, 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 Factory Mutual System  
Inspector's Signature Tex 826  
B. R. Russell National Board, State, Province, and Endorsements

Date 3-24-19 93

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS  
ASME Code Class 1 (IWB) Items - Welds Program**

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 1 4. Owner and Certificate of Authorization (if required) N.A.
5. Commercial Service Date 08/25/88 6. National Board Number for Unit N.A.

ASME CATGY	ASME ITEM	COMPONENT or SYSTEM	IDENTIFICATION NO.	EXAM METHOD	REMARKS
B-G-1	B6.10	RPV	2,5,8,11,14,17,20,23,26,29,32,35	UT,MT	RPV CLOSURE NUTS
B-G-1	B6.30	RPV	2,5,8,11,14,17,20,23,26,29,32,35	UT,PT,MT	RPV CLOSURE STUDS
B-G-1	B6.50	RPV	2,5,8,11,14,17,20,23,26,29,32,35	VT-1	RPV CLOSURE WASHERS
B-N-1	B13.10	RPV	VESSEL INTERIOR	VT-3	ACCESSIBLE AREAS
B-F	B5.40	PRZ	PRZ-1-N4B-SE	UT,PT	RELIEF NOZZLE TO SAFE END
B-F	B5.40	PRZ	PRZ-1-N4C-SE	UT,PT	RELIEF NOZZLE TO SAFE END
B-B	B2.31	SG	SG-1B-SR1	UT	HEAD TO SUPPORT RING
B-B	B2.40	SG	SG-1B-SR2	UT	SUPPORT RING TO TUBE PLATE
B-D	B3.130	SG	SG-1B-IN	UT	INLET NOZ TO CHNL HEAD CAP
B-D	B3.130	SG	SG-1B-ON	UT	CHNL HD CAP TO OUTLET NOZ
B-D	B3.140	SG	SG-1B-IN-IR	UT	INLET NOZZLE INNER RADIUS
B-D	B3.140	SG	SG-1B-ON-IR	UT	OUTLET NOZZLE INNER RADIUS
B-G-2	B7.30	SG	SG-1B-JMB	VT-1	INLET MANWAY BOLTING
B-G-2	B7.30	SG	SG-1B-OMB	VT-1	OUTLET MANWAY BOLTING
B-F	B5.130	RC	31-RC-1202-NSS-1	UT,PT	PIPING BUTT WELD
B-F	B5.130	RC	29-RC-1201-NSS-5	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	27.5-RC-1103-NSS-1	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	27.5-RC-1203-NSS-1	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	16-RC-1412-NSS-3	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	16-RC-1412-NSS-7	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	16-RC-1412-NSS-8	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	16-RC-1412-NSS-9	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	12-RC-1125-BB1-2	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	12-RC-1212-BB1-8	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	12-RC-1221-BB1-6	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	12-RC-1221-BB1-8	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	6-RC-1003-NSS-11A	UT,PT	PIPING BUTT WELD(BASELINE)
B-J	B9.11	RC	6-RC-1003-NSS-11B	UT,PT	PIPING BUTT WELD(BASELINE)
B-G-2	B7.50	RC	6-RC-1004-NSS-7FB	VT-1	FLANGE BOLTING (BASELINE)
B-J	B9.11	RC	6-RC-1009-NSS-1	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	6-RC-1009-NSS-3	UT,PT	PIPING BUTT WELD
B-G-2	B7.50	RC	6-RC-1009-NSS-9FB	VT-1	FLANGE BOLTING (BASELINE)
B-J	B9.11	RC	6-RC-1012-NSS-1	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	6-RC-1012-NSS-3	UT,PT	PIPING BUTT WELD
B-J	B9.11	RC	6-RC-1012-NSS-11	UT,PT	PIPING BUTT WELD
B-G-2	B7.50	RC	6-RC-1012-NSS-11FB	VT-1	FLANGE BOLTING (BASELINE)
B-J	B9.21	RC	3-RC-1015-NSS-3	PT	PIPING BUTT WELD
B-J	B9.21	RC	3-RC-1015-NSS-7	PT	PIPING BUTT WELD
B-J	B9.21	RC	2.5-RC-1003-BB1-1	PT	PIPING BUTT WELD(BASELINE)
B-J	B9.21	RC	2.5-RC-1003-BB1-2	PT	PIPING BUTT WELD(BASELINE)
B-J	B9.21	RC	2.5-RC-1003-BB1-3	PT	PIPING BUTT WELD(BASELINE)
B-J	B9.21	RC	2.5-RC-1003-BB1-4	PT	PIPING BUTT WELD(BASELINE)
B-J	B9.21	RC	2.5-RC-1003-BB1-5	PT	PIPING BUTT WELD(BASELINE)
B-J	B9.21	RC	2.5-RC-1003-BB1-6	PT	PIPING BUTT WELD(BASELINE)
B-J	B9.11	RH	12-RH-1201-BB1-2	UT,PT	PIPING BUTT WELD
B-J	B9.11	RH	12-RH-1201-BB1-4	UT,PT	PIPING BUTT WELD

HL&P by R. L. Beverly Date 3/23/93

Factory Mutual by B. R. Russell, ANII Date 3-24-93

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS  
ASME Code Class 1 (IWB) Items - Welds Program**

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 1 4. Owner and Certificate of Authorization (if required) N.A.
5. Commercial Service Date 08/25/88 6. National Board Number for Unit N.A.

ASME CATGY	ASME ITEM	COMPONENT or SYSTEM	IDENTIFICATION NO.	EXAM METHOD	REMARKS
B-J	B9.11	RH	12-RH-1201-BB1-11	UT,PT	PIPING BUTT WELD
B-J	B9.11	RH	12-RH-1201-BB1-14	UT,PT	PIPING BUTT WELD
B-J	B9.11	RH	8-RH-1108-BB1-1	UT,PT	PIPING BUTT WELD
B-J	B9.11	RH	8-RH-1208-BB1-1	UT,PT	PIPING BUTT WELD
B-J	B9.11	SI	12-SI-1218-BB1-3	UT,PT	PIPING BUTT WELD
B-J	B9.11	SI	12-SI-1218-BB1-4	UT,PT	PIPING BUTT WELD
B-J	B9.11	SI	12-SI-1315-BB1-10	UT,PT	PIPING BUTT WELD
B-J	B9.11	SI	8-SI-1208-BB1-4	UT,PT	PIPING BUTT WELD

HL&P by R. L. Beverly Date 5/23/93 Factory Mutual by B. R. Russell Date 3-24-93  
 R. L. Beverly System B. R. Russell, ANII

**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 1 4. Owner and Certificate of Authorization (if required) N.A.
5. Commercial Service Date 08/25/88 6. National Board Number for Unit N.A.
7. Components Inspected ASME Code Class 2 (IWC) Items - Welds Program  
(See Page 3 of 3 for Identification Numbers)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Steam Generator ID	Westinghouse (M)	21343	W18694
Excess Letdown Heat Exchanger	Joseph Oat Corp (M)	2312-3A	988
Class 2 Piping	Ebasco (I)	N.A.	N.A.

HL&P by R. L. Beverly Date 3/23/93 Factory Mutual by B. R. Russell Date 3-24-93  
R. L. Beverly System B. R. Russell, ANII



FORM NIS-1 (Back)

8. Examination Dates 9/18/92 to 10/29/92 9. Inspection Interval from 08/25/88 to 08/25/98

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 IRE04 Summary Report for list of examinations performed. The examinations performed this outage constitute 15% of the required examinations for the current interval. The cumulative percentage completed for the interval is 46%.

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 3-23 1993 Signed Houston Lighting & Power Co. By R. L. 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 8-15-92 to 3-24-93, 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 Factory Mutual System  
Inspector's Signature Tex 826  
B. R. Russell National Board, State, Province, and Endorsements

Date 3-24-1993

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS  
ASME Code Class 2 (IWC) Items - Welds Program**

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 1 4. Owner and Certificate of Authorization (if required) N.A.
5. Commercial Service Date 08/25/88 6. National Board Number for Unit N.A.

ASME CATGY	ASME ITEM	COMPONENT or SYSTEM	IDENTIFICATION NO.	EXAM METHOD	REMARKS
C-A	C1.10	SG 1D (Sec)	SG-1D-S4	UT	LWR SHELL TO TRANS CONE
C-A	C1.10	SG 1D (Sec)	SG-1D-S5	UT	TRANS CONE TO UPR SHELL
C-A	C1.20	SG 1D (Sec)	SG-1D-S7	UT	UPR SHELL TO UPR HEAD
C-B	C2.21	SG 1D (Sec)	SG-1D-FW10	UT,MT	FW NOZZLE TO SHELL
C-B	C2.22	SG 1D (Sec)	SG-1D-FW10-IR	UT	FW NOZZLE INNER RADIUS
C-C	C3.10	SG 1D (Sec)	SG-1D-TR12	PT	TRUNNION B
C-A	C1.20	ExLetdownHx	CSAHEL-1A-S1	UT	HEAD TO FLANGE
C-F-2	C5.51	AF	8-AF-1008-GA2[C]-11	UT,MT	PIPING BUTT WELD
C-C	C3.20	AF	8-AF-1008-GA2[C]-14PL1-14PL8	MT	PIPE LUGS
C-C	C3.20	AF	8-AF-1010-GA2[C]-19PL1-19PL8	MT	PIPE LUGS
C-C	C3.20	AF	8-AF-1010-GA2[C]-26PL1-26PL8	MT	PIPE LUGS
C-F-2	C5.51	AF	8-AF-1010-GA2[C]-29	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	AF	8-AF-1010-GA2[G]-2	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	AF	6-AF-1010-GA2-2	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	FW	18-FW-1018-GA2-3	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	FW	18-FW-1018-GA2-23	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	FW	18-FW-1030-AA2-1	UT,MT	PIPING BUTT WELD
C-C	C3.20	FW	18-FW-1030-AA2-1PL1-LPL8	MT	PIPE LUGS
C-F-2	C5.51	FW	18-FW-1030-AA2-2	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	FW	18-FW-1030-AA2-3	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	FW	18-FW-1030-AA2-4	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	FW	16-FW-1018-GA2-4	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	MS	30-MS-1004-GA2-22,22LU	UT,MT	PIPING BUTT/LONG. WELDS
C-F-2	C5.51	MS	30-MS-1004-GA2-23,23LD	UT,MT	PIPING BUTT/LONG. WELDS
C-F-2	C5.51	MS	30-MS-1004-GA2-24,24LU/D	UT,MT	PIPING BUTT/LONG. WELDS
C-F-2	C5.51	MS	30-MS-1004-GA2-24A,24ALU/D	UT,MT	PIPING BUTT/LONG. WELDS
C-F-2	C5.51	MS	30-MS-1004-GA2-24B,24BLU/D	UT,MT	PIPING BUTT/LONG. WELDS
C-F-2	C5.51	MS	16-MS-1004-GA2-1	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	MS	16-MS-1004-GA2-2	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	MS	12-MS-1103-GA2-3	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	MS	8-MS-1103-GA2-1	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	MS	6-MS-1004-GA2(A)-1	UT,MT	PIPING BUTT WELD
C-F-2	C5.51	MS	6-MS-1004-GA2(B)-1	UT,MT	PIPING BUTT WELD
C-F-1	C5.11	RH	8-RH-1111-BB2-3	UT,PT	PIPING BUTT WELD
C-F-1	C5.11	RH	8-RH-1111-BB2-5	UT,PT	PIPING BUTT WELD
C-F-1	C5.11	SI	16-SI-1201-UB2-5,5LD	UT,PT	PIPING BUTT/LONG. WELDS
C-F-1	C5.41	SI	16-SI-1201-UB2-9	PT	PIPING BRANCH CONN WELD
C-C	C3.20	SI	16-SI-1201-UB2-14PL1-8	PT	PIPE LUGS
C-F-1	C5.11	SI	12-SI-1201-UB2-2,2LU/D	UT,PT	PIPING BUTT/LONG. WELDS
C-F-1	-	SI	10-SI-1201-UB2-7,7LU/D	UT,PT	PIPING BUTT/LONG. WELDS
C-F-1	C5.11	SI	6-SI-1110-BB2-1	UT,PT	PIPING BUTT WELD
C-F-1	C5.11	SI	6-SI-1206-DB2-24	UT,PT	PIPING BUTT WELD
C-F-1	C5.11	SI	6-SI-1206-DB2-25	UT,PT	PIPING BUTT WELD
C-F-1	C5.11	SI	6-SI-1206-DB2-26	UT,PT	PIPING BUTT WELD
C-F-1	C5.11	SI	6-SI-1206-DB2-27	UT,PT	PIPING BUTT WELD
C-F-1	C5.11	SI	6-SI-1206-DB2-28	UT,PT	PIPING BUTT WELD

HL&P by R. L. Beverly Date 3/23/93 Factory Mutual by B. R. Russell, ANII Date 3-24-93  
System

### 3.0 COMPONENT SUPPORT EXAMINATIONS

#### 3.1 Introduction

ISI of Class 1, 2, and 3 component supports and Class 3 integral attachments of STPEGS-1 was performed between August 26 and October 26, 1992. These examinations constitute the fourth ISI (the first ISI of the second period) of the first inspection interval for the Component Supports Examination Program for STPEGS-1.

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

- (1) HL&P Specification 5U035JS003, "Inservice Inspection Examination of Component Supports of South Texas Project Electric Generating Unit 1 First Inspection Interval",
- (2) "Examination Plan for the 1992 - 1RE04 Inservice Inspection at the South Texas Project Electric Generating Station, Unit 1" 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 1992 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 one-hundred and three (103) component supports were visually examined during 1RE04.

##### Class 1

Nine (9) Class 1 piping supports and three (3) Class 1 equipment support were examined in the following systems:

	<u>Piping</u>	<u>Equipment</u>
Chemical & Volume Control (CV)	1	0
Reactor Coolant (RC)	5	3
Residual Heat Removal (RH)	2	0
Safety Injection (SI)	1	0

### Class 2

Thirty-nine (39) Class 2 piping supports were examined in the following systems:

	<u>Piping</u>	<u>Equipment</u>
Auxiliary Feedwater (AF)	2	0
Containment Spray (CS)	3	0
Feedwater (FW)	2	0
Main Steam (MS)	1	0
Residual Heat Removal (RH)	8	0
Safety Injection (SI)	23	0

### Class 3

Forty-eight (48) Class 3 piping supports and four (4) Class 3 equipment supports were examined in the following systems:

	<u>Piping</u>	<u>Equipment</u>
Auxiliary Feedwater (AF)	6	0
Component Cooling (CC)	29	1
Diesel Generator Jacket Water (JW)	0	1
Diesel Generator Lube Oil (LU)	0	2
Essential Cooling Water (EW)	13*	0

\* - Examination of four (4) EW piping supports was a baseline examination (PSI).

A complete list of component supports examined during 1RE04 is contained in Appendix 3-A.

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

	<u>1RE04</u>	<u>Cumulative (1st Interval)</u>
Class 1(IWF)	14%	50%
Class 2(IWF)	16%	51%
Class 3(IWF)	16%	50%

## 3.3 Personnel and Procedures

### 3.3.1 Personnel Qualifications

Component supports were visually examined (VT-3 and VT-4) by HL&P QC NDE personnel certified in accordance with ASME Section XI (IWA-2300) and HL&P Nondestructive Examination Procedure NDEP 1.0 (Rev. 3), "Qualification and Certification

for Examination Personnel". 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 NDEP 9.2 (Rev. 0), "Visual Examination of Component Supports for ASME XI Inservice Inspection".

### 3.4 Summary of Examinations

Ninety-six (96) piping supports and seven (7) equipment support were examined just prior to and during 1RE04 as shown in Appendix 3-A.

#### 3.4.1 Examination Results and Corrective Actions

Several relevant conditions were found as shown in Table 3-1. In all but one case, each support was analyzed to substantiate its integrity for its intended service and found to be acceptable. The exception was a support with a dislodged shear pin in a rear bracket rendering the support inoperable. This condition was immediately reworked and additional examinations were scheduled as discussed in 3.4.2.

Table 3-1

Summary of Component Support Visual Indication Disposition

<u>Component ID</u>	<u>Condition</u>	<u>SR No.</u>	<u>Disposition</u>
RH-1205-HL5013	Spring Hanger setting out of tolerance	158442	Accept-as-is until rework completed
SI-1102-HL5004	Loose jam nut	158444	Accept-as-is until rework completed
SI-1105-RH01	Missing cotter key Shear pin dislodged	158441	Reworked Additional supports examined (see 3.4.2)
AF-1011-HL5001	Rusted swivel ball joints	158445	Accept-as-is until rework completed

### 3.4.2 Additional and Successive Examinations

The results of the visual examinations of component supports performed during 1RE04 found one Class 2 SI rigid restraint (SI-1105-RH01) which required corrective action. Therefore, additional examinations were performed in accordance with IWF-2430(a). Component supports immediately adjacent to the support requiring corrective action were examined. Additional supports similar in type, design, and function were examined equal in number to those initially scheduled during this refueling outage. One of the adjacent supports satisfied the criteria for additional supports. A total of eleven (11) adjacent and additional supports selected in accordance with IWF-2430(a) are noted in the "Remarks" column of the examination tables of Appendix 3-A. All but one of the additional supports selected and examined can be credited to examinations for the second inspection period. The exception was one support which was examined during the previous refueling outage. None of the adjacent or additional supports examined were found in an inoperable condition. Therefore, further scope expansion was not required in accordance with IWF-2430(b).

In accordance with IWF-2420(b), SI-1105-RH01 will be scheduled for reexamination during the next inspection period (Period 3).

### 3.5 Certification of Inspections

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

APPENDIX 3-A  
SUMMARY OF EXAMINATIONS

DATE: 03/22/93  
REVISION: J

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
INSERVICE INSPECTION SUMMARY - 1RE04 (SUPPORTS)  
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
CLASS 1 COMPLETED COMPONENTS

PAGE: 1

CHEMICAL&VOLUME CONTROL 1

SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER	IDENTIFICATION	SEC. XI	CATGY	EXAM	O	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
							REMARKS
							**CALIBRATION BLOCK**

2-CV-1121-BB1-B1A1

100500 CV-1121-HS5005 PIPING VT-3 NDEP 9.2 R0 X - -  
GUIDE



DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

PAGE: 2

REACTOR COOLANT 1

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N D O O G T R E H E D E C M R			REMARKS **CALIBRATION BLOCK**
<u>6-RC-1003-BB1-A</u>								
105600	RC-1003-RR07 RR	PIPING	VT-3	NDEP 9.2 R0	X	-	-	
<u>4-RC-1123-BB1-C</u>								
107100	RC-1123-RR16 RR	PIPING	VT-3	NDEP 9.2 R0	X	-	-	
<u>4-RC-1123-BB1-E</u>								
107500	RC-1123-RR06 RR	PIPING	VT-3	NDEP 9.2 R0	X	-	-	
<u>2-RC-1419-BB1-A1-A1</u>								
111700	RC-1419-HS5006 SH-V	PIPING	VT-3 VT-4	NDEP 9.2 R0	X	-	-	92 - EXAMINED WHEN FILLED.
<u>2-RC-1419-BB1-B-A1</u>								
111800	RC-1419-HS5001 SH-V	PIPING	VT-3 VT-4	NDEP 9.2 R0	X	-	-	92 - EXAMINED WHEN FILLED.

DATE: 03/22/93  
REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
INSERVICE INSPECTION SUMMAR. - 1RE04 (SUPPORTS)  
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92PF)  
CLASS 1 COMPLETED COMPONENTS

PAGE: 3

RESIDUAL HEAT REMOVAL 1

SUMMARY EXAMINATION AREA		ASME			N	D		
		SEC. XI			O	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
-----		-----	-----	-----	-	-	-	-----
<u>10-RH-1208-C1-A</u>								
114200	RH-1208-HL5005	PIPING	VT-3	NDEP 9.2 RD	X	-	-	92 - EXAMINED WHEN FILLED.
	SH-V	-	VT-4		X	-	-	
<u>10-RH-1208-BB1-B</u>								
114400	RH-1208-RR01	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
	RR							

DATE: 03/22/93  
REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
INSERVICE INSPECTION SUMMARY - 1RED4 (SUPPORTS)  
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
CLASS 1 COMPLETED COMPONENTS

PAGE: 4

SAFETY INJECTION 1

SUMMARY EXAMINATION AREA		ASME			N O	
		SEC. XI			O G T	
		CATGY	EXAM		R E H	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E D E	REMARKS
					C M R	**CALIBRATION BLOCK**
<hr/>						
<u>8-SI-1208-BB1-B</u>						
116000	SI-1208-HL5001 RR	PIPING	VT-3	NDEP 9.2 R0	X - -	

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 1 COMPLETED COMPONENTS

PAGE: 5

REACTOR COOLANT 1

N O  
 O G T  
 R E H  
 E O E  
 C M R

SUMMARY EXAMINATION AREA		ASME	EXAM		REMARKS		
NUMBER	IDENTIFICATION	SEC. XI	CATGY	ITEM NO	METHOD	PROCEDURE	**CALIBRATION BLOCK**
<u>1R131NPP101B</u>							
120900	RPR1B RC PUMP RODS	EQUIP	VT-3		NDEP 9.2 RD	X - -	92 - REACTOR COOLANT PUMP 1B - TIE ROD LOCATED IMMEDIATELY CLOCKWISE FROM THE DISCHARGE NOZZLE.
121000	RPR2B RC PUMP RODS	EQUIP	VT-3		NDEP 9.2 RD	X - -	92 - REACTOR COOLANT PUMP 1B - TIE ROD LOCATED IMMEDIATELY CLOCKWISE FROM RPR1B.
121100	RPR3B RC PUMP RODS	EQUIP	VT-3		NDEP 9.2 RD	X - -	92 - REACTOR COOLANT PUMP 1B - TIE ROD LOCATED IMMEDIATELY CLOCKWISE FROM RPR2B.

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

PAGE: 6

AUXILIARY FEEDWATER 2

SUMMARY EXAMINATION AREA		ASME			N	D		
		SEC. XI			D	G	T	
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
<u>8-AF-1012-GA2-G</u>								
205800	AF-1012-HL5021 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>4-AF-1012-GA2-L</u>								
208500	AF-1012-HL5036 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X	-	-	

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

PAGE: 7

CONTAINMENT SPRAY 2

SUMMARY EXAMINATION AREA		ASME			N	O		
		SEC. XI			O	G		
		CATGY	EXAM			R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E	REMARKS
					C	M	R	**CALIBRATION BLOCK**
<u>B-CS-1302-PB2-B</u>								
214000	CS-1302-HL5002 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>B-CS-1302-PB2-D</u>								
214400	CS-1302-RR05 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>B-CS-1302-PB2-K</u>								
214800	CS-1302-SH10 SH-V	PIPING	VT-3	NDEP 9.2 RD	X	-	-	92 - EXAMINED WHEN FILLED.
			VT-4		X	-	-	

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

FEED WATER 2

N O  
 O G T  
 R E H  
 E O E  
 C M R

SUMMARY EXAMINATION AREA		ASME	EXAM		REMARKS	
NUMBER	IDENTIFICATION	SEC. XI	ITEM NO	METHOD	PROCEDURE	**CALIBRATION BLOCK**

1B-FW-1016-GA2-C

218900	FW-1016-HL5012 RR	PIPING	VT-3	NDEP 9.2 RD	X - -	
--------	----------------------	--------	------	-------------	-------	--

1B-FW-1016-GA2-K

219500	FW-1016-SH01 SH-V	PIPING	VT-3 VT-4	NDEP 9.2 RD	X - - X - -	92 - EXAMINED WHEN FILLED.
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DATE: 03/22/93  
REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
INSERVICE INSPECTION SUMMARY - 1RE04 (SUPPORTS)  
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
CLASS 2 COMPLETED COMPONENTS

PAGE: 9

MAIN STEAM 2

SUMMARY EXAMINATION AREA				N	O	
				D	G	T
				R	E	H
				E	O	E
NUMBER	IDENTIFICATION	CATGY	EXAM	C	M	R
				REMARKS		
				**CALIBRATION BLOCK**		
-----						
<u>30-MS-1003-GA2-E</u>						
225200	MS-1003-HL5005 GUIDE	PIPING	VT-3	NDEP 9.2 RO	X	-



DATE: 03/22/93  
 REVISION: D

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

PAGE: 10

RESIDUAL HEAT REMOVAL 2

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O D G T R E H E O E C M R			REMARKS **CALIBRATION BLOCK**
<u>12-RH-1104-KB2-A</u>								
228700	RH-1104-RR01 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>8-RH-1103-KB2-B</u>								
230500	RH-1103-SH08 SH-V	PIPING	VT-3 VT-4	NDEP 9.2 RD	X	-	-	92 - EXAMINED WHEN FILLED.
<u>8-RH-1103-KB2-CA</u>								
230900	RH-1103-RR07 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>8-RH-1104-KB2-B</u>								
231600	RH-1104-RR02 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>8-RH-1204-KB2-D</u>								
234800	RH-1204-RR07 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>8-RH-1205-KB2-A</u>								
235800	RH-1205-HL5013 SH-V (2)	PIPING	VT-3 VT-4	NDEP 9.2 RD	X	-	-	92 - EXAMINED WHEN FILLED. SPRING HANGER SETTINGS WERE FOUND OUT OF CURRENT DRAWING TOLERANCES. SR# 158442 WAS ISSUED. SUPPORT WILL MEET ITS FUNCTIONAL REQUIREMENTS AND IS ACCEPTABLE FOR CONTINUED SERVICE.

DATE: 03/22/93  
REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
INSERVICE INSPECTION SUMMARY - 1RED4 (SUPPORTS)  
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
CLASS 2 COMPLETED COMPONENTS

PAGE: 11

RESIDUAL HEAT REMOVAL 2

SUMMARY EXAMINATION AREA		ASME			N	D	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					**CALIBRATION BLOCK**		
<u>8-RH-1205-KB2-A</u>							
235900	RH-1205-HL5014 RR	PIPING	VT-3	NDEP 9.2 R0	X	-	-
<u>8-RH-1205-KB2-DD</u>							
236700	RH-1205-HL5008 GUIDE	PIPING	VT-3	NDEP 9.2 R0	X	-	-

DATE: 03/22/93  
 REVISION: 0

SOJTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

SAFETY INJECTION 2

SUMMARY NUMBER	EXAMINATION IDENTIFICATION	ASME SEC. XI CATGY	EXAM IYEM NO	METHOD	PROCEDURE	N D G T R E H F D E C M R	REMARKS
							**CALIBRATION BLOCK**
<u>24-S1-1101-UB2-B</u>							
243000	S1-1101-HL5018 RR	PIPING	VT-3		NDEP 9.2 R0	X - -	
243100	S1-1101-HL5022 RR	PIPING	VT-3		NDEP 9.2 R0	X - -	92 - ADDITIONAL EXAMINATION PER 1WF-2430(A).
<u>24-S1-1101-UB2-D</u>							
243300	S1-1101-HL5020 RR	PIPING	VT-3		NDEP 9.2 R0	X - -	92 - ADDITIONAL EXAMINATION PER 1WF-2430(A).
243500	S1-1101-HL5025 RR	PIPING	VT-3		NDEP 9.2 R0	X - -	92 - ADDITIONAL EXAMINATION PER 1WF-2430(A). NO CREDIT TAKEN FOR SECTION XI COMPLETION PERCENTAGE SINCE THIS SUPPORT WAS EXAMINED IN 1RE03.
<u>24-S1-1101-UB2-H</u>							
244100	S1-1101-HL5016 RR	PIPING	VT-3		NDEP 9.2 R0	X - -	
<u>16-S1-1101-UB2-NA</u>							
244660	S1-1101-HL5004 RR	PIPING	VT-3		NDEP 9.2 R0	X - -	92 - ADDITIONAL EXAMINATION PER 1WF-2430(A).
<u>12-S1-1101-UB2-AB</u>							
248200	S1-1101-HL5013 RR	PIPING	VT-3		NDEP 9.2 R0	X - -	92 - ADDITIONAL EXAMINATION PER 1WF-2430(A).

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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SAFETY INJECTION 2

SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	D	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>12-S1-1101-UB2-AB</u>							
248300	S1-1101-RR26 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	- 92 - ADDITIONAL EXAMINATION PER 1WF-2430(A).
<u>B-S1-1102-PB2-B</u>							
253300	S1-1102-RR03 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-
253400	S1-1102-RR04 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-
<u>B-S1-1102-PB2-D</u>							
253700	S1-1102-RH07 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	- 92 - ADDITIONAL EXAMINATION PER 1WF-2430(A).
<u>B-S1-1102-PB2-E</u>							
253900	S1-1102-HL5004 RR	PIPING	VT-3	NDEP 9.2 RD	-	-	X 92 - ADDITIONAL EXAMINATION PER 1WF-2430(A). THIS SUPPORT IS ADJACENT (UPSTREAM) TO S1-1105-RH01. SR# 158444 WAS ISSUED TO TIGHTEN A LOOSE JAM NUT. THE SUPPORT WILL MEET ITS FUNCTIONAL REQUIREMENTS AND IS ACCEPTABLE FOR CONTINUED SERVICE.
<u>B-S1-1105-KB2-B</u>							
254100	S1-1105-HL5004 SH-V	PIPING	VT-3 VT-4	NDEP 9.2 RD	X	-	- 92 - ADDITIONAL EXAMINATION PER 1WF-2430(A). THIS SUPPORT IS ADJACENT (DOWNSTREAM) TO S1-1105-RH01.

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1REQ4 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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SAFETY INJECTION 2

SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			D	G	I
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>B-S1-1105-KB2-B</u>							
254200	S1-1105-RR01 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-
92 - COTTER KEY AND SHEAR PIN DEFICIENCIES WERE NOTED. REINSPECTION AFTER CORRECTIVE ACTION PER SR# 158441 REVEALED ACCEPTABLE RESULTS. DUE TO THE INITIAL CONDITION, ADDITIONAL EXAMINATIONS ARE SCHEDULED IN ACCORDANCE WITH IWF-2430(A).							
<u>B-S1-1105-KB2-F</u>							
254800	S1-1105-RR24 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-
92 - ADDITIONAL EXAMINATION PER IWF-2430(A).							
<u>B-S1-1105-KB2-K</u>							
255600	S1-1105-RR31 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-
<u>6-S1-1106-DB2-KA</u>							
263800	S1-1106-RR72 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-
<u>6-S1-1106-DB2-Q</u>							
265300	S1-1106-HL5009 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X	-	-
265400	S1-1106-RR51 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 2 COMPLETED COMPONENTS

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SAFETY INJECTION 2

SUMMARY EXAMINATION AREA		ASME			N	O			
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	ITEM NO	METHOD	PROCEDURE	C M R	REMARKS
<u>6-SI-1106-DB2-Q</u>									
265600	SI-1106-RR74 RR		PIPING	VT-3			NDEP 9.2 RO	X - -	**CALIBRATION BLOCK**
<u>6-SI-1106-DB2-T</u>									
266400	SI-1106-SH80 RR		PIPING	VT-3			NDEP 9.2 RO	X - -	92 - ADDITIONAL EXAMINATION PER 1WF-2430(A).
<u>6-SI-1109-DB2-B</u>									
266700	SI-1109-HL5003 GUIDE		PIPING	VT-3			NDEP 9.2 RO	X - -	
<u>2-SI-1139-DB2-B-A1</u>									
276900	SI-1139-HFS002 U-BOLT		PIPING	VT-3			NDEP 9.2 RO	X - -	

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 3 COMPLETED COMPONENTS

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AUXILIARY FEEDWATER 3

SUMMARY NUMBER	EXAMINATION IDENTIFICATION	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N O D O G T R E H E O E C M R	REMARKS
						**CALIBRATION BLOCK**
<u>12-AF-1054-WA3-E</u>						
300100	AF-1054-HL5002 GUIDE	PIPING	VT-3	NDEP 9.2 RO	X - -	
<u>12-AF-1054-WA3-H</u>						
300600	AF-1054-HL5008 GUIDE	PIPING	VT-3	NDEP 9.2 RO	X - -	
<u>4-AF-1011-GA3-NA</u>						
310900	AF-1011-HL5001 RR	PIPING	VT-3	NDEP 9.2 RO	- - X	92 - SWIVEL BALLS ON BOTH ENDS OF THE STRUT WERE FOUND IN A RUSTED CONDITION. SR# 158445 WAS ISSUED TO REWORK THIS CONDITION. THE SUPPORT WILL MEET ITS FUNCTIONAL REQUIREMENTS AND IS ACCEPTABLE FOR CONTINUED SERVICE.
<u>3-AF-1086-GA3-A</u>						
315000	AF-1086-HL5001 GUIDE	PIPING	VT-3	NDEP 9.2 RO	X - -	
<u>3-AF-1086-GA3-D</u>						
315400	AF-1086-HL5004 GUIDE	PIPING	VT-3	NDEP 9.2 RO	X - -	
<u>1.5-AF-1086-GA3-AA01</u>						
319100	AF-1086-HF5001 U-BOLT	PIPING	VT-3	NDEP 9.2 RO	X - -	

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 3 COMPLETED COMPONENTS

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COMPONENT COOLING 3

SUMMARY NUMBER	EXAMINATION IDENTIFICATION	ASME SEC. X1 CATGY	EXAM ITEM NO METHOD	PROCEDURE	N O R E E D C M R	D G T H E E R	REMARKS
							**CALIBRATION BLOCK**
<u>24-CC-1101-WA3-D</u>							
320200	CC-1101-HL5001 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X	-	-
<u>24-CC-1101-WA3-E</u>							
320400	CC-1101-SH06 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-
<u>24-CC-1102-WA3-B</u>							
320600	CC-1102-HL5001 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-
320700	CC-1102-RR06 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-
<u>24-CC-1102-WA3-F</u>							
321100	CC-1102-HL5002 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X	-	-
<u>24-CC-1110-WA3-C</u>							
321500	CC-1110-HL5002 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-
<u>20-CC-1103-WA3-D</u>							
326200	CC-1103-HL5006 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X	-	-



DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 3 COMPLETED COMPONENTS

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COMPONENT COOLING 3

SUMMARY NUMBER	EXAMINATION IDENTIFICATION AREA	ASME SEC. XI CATGY	EXAM METHOD	PROCEDURE	N D E			REMARKS
					C	M	R	
								**CALIBRATION BLOCK**
<u>20-CC-1103-WA3-E</u>								
326300	CC-1103-HL5007 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>20-CC-1106-WA3-A</u>								
326600	CC-1106-SH01 SH-V	PIPING	VT-3 VT-4	NDEP 9.2 RD	X	-	-	92 - EXAMINED WHEN FILLED.
<u>20-CC-1109-WA3-H</u>								
327200	CC-1109-RH02 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>16-CC-1103-WA3-J</u>								
332300	CC-1103-SH13 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>16-CC-1105-WA3-G</u>								
333700	CC-1105-RR07 RR	PIPING	VT-3	NDEP 9.7 RD	X	-	-	
<u>16-CC-1105-WA3-H</u>								
334000	CC-1105-RH04 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 3 COMPLETED COMPONENTS

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COMPONENT COOLING 3

SUMMARY NUMBER	EXAMINATION IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO METHOD	PROCEDURE	N O			REMARKS
					E	D	R	
					C	M	R	**CALIBRATION BLOCK**
<u>16-CC-1105-WA3-H</u>								
334100	CC-1105-RR03 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>16-CC-1106-WA3-E</u>								
335000	CC-1106-HL5006 RR	PIPING	VT-3	NDEP 9.2 RD	-	-	-	
<u>16-CC-1106-WA3-G</u>								
335300	CC-1106-RH12 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
335400	CC-1106-RH13 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>16-CC-1106-WA3-H</u>								
335700	CC-1106-HL5014 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
335800	CC-1106-HL5015 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	
<u>16-CC-1106-WA3-J</u>								
336100	CC-1106-HL5001 SH-V	PIPING	VT-3 VT-4	NDEP 9.2 RD	X	-	-	92 - EXAMINED WHEN FILLED.

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1REQ4 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 3 COMPLETED COMPONENTS

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COMPONENT COOLING 3

SUMMARY NUMBER	EXAMINATION IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO	METHOD	PROCEDURE	N O D O G T R E H E D E C M R			REMARKS
<u>16-CC-1109-WA3-C</u>									
336800	CC-1109-RR11 RR	PIPING	VT-3		NDEP 9.2 RO	X	-	-	**CALIBRATION BLOCK**
<u>10-CC-1114-WA3-D</u>									
350700	CC-1114-RR24 RR	PIPING	VT-3		NDEP 9.2 RO	X	-	-	
350800	CC-1114-RR25 RR	PIPING	VT-3		NDEP 9.2 RO	X	-	-	
<u>10-CC-1115-WA3-Q</u>									
354000	CC-1115-RR19 RR	PIPING	VT-3		NDEP 9.2 RO	X	-	-	
354300	CC-1115-RR22 RR	PIPING	VT-3		NDEP 9.2 RO	X	-	-	
<u>10-CC-1115-WA3-U</u>									
354900	CC-1115-RR09 RR	PIPING	VT-3		NDEP 9.2 RO	X	-	-	
355000	CC-1115-RR10 RR	PIPING	VT-3		NDEP 9.2 RO	X	-	-	

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 3 COMPLETED COMPONENTS

COMPONENT COOLING 3

SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			D	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<u>10-CC-1116-WA3-A</u>							
356000	CC-1116-HL5001 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-
<u>10-CC-1116-WA3-D</u>							
356800	CC-1116-HL5002 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - TRED4 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 3 COMPLETED COMPONENTS

ESSENTIAL COOLING WATER 3

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY	EXAM ITEM NO METHOD	PROCEDURE	N O G T R E H E O E C M R	REMARKS
						**CALIBRATION BLOCK**
<u>30-EW-1105-WT3-A</u>						
378400	EW-1105-HL5003 RR	PIPING	VT-3	NDEP 9.2 RD	X - -	
378500	EW-1105-HL5004 RR	PIPING	VT-3	NDEP 9.2 RD	X - -	
<u>10-EW-1107-WT3-AB</u>						
402000	EW-1107-HL5002 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X - -	
<u>10-EW-1107-WT3-AC</u>						
402300	EW-1107-HL5008 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X - -	
<u>6-EW-1107-WT3-AA</u>						
409300	EW-1107-HL5003 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X - -	
409400	EW-1107-HL5004 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X - -	92 - EXAMINED AFTER REINSTALLATION PER MOD EW-116446.
<u>6-EW-1125-WT3-A1</u>						
410100	EW-1125-HL5008 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X - -	92 - EXAMINED AFTER REINSTALLATION PER SR# 151258.

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 3 COMPLETED COMPONENTS

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ESSENTIAL COOLING WATER 3

SUMMARY EXAMINATION AREA		ASME			N	O			
		SEC. XI			O	G	T		
		CATGY	EXAM			R	E		
		ITEM NO	METHOD	PROCEDURE	E	O	E		
NUMBER	IDENTIFICATION				C	M	R		
							REMARKS		
							**CALIBRATION BLOCK**		
<u>6-EW-1128-WT3-C</u>									
410800	EW-1128-HL5003 RR	PIPING	VT-3	NDEP 9.2 RD	X	-	-	92 - EXAMINED AFTER REINSTALLATION PER MOD EW-116446.	
<u>6-EW-1127-WT3-A</u>									
417200	EW-1127-HL5001 GUIDE	PIPING	VT-3	NDEP 9.2 RD	X	-	-	92 - EXAMINED AFTER REINSTALLATION PER MOD EW-116446.	

DATE: 03/22/93  
REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
INSERVICE INSPECTION SUMMARY - 1RED4 (SUPPORTS)  
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
CLASS 3 COMPLETED COMPONENTS

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COMPONENT COOLING 3

SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM	D	G	T
		ITEM NO	METHOD	PROCEDURE	R	E	H
					E	O	E
					C	M	R
<u>3R201NTS101A</u>							
420200	CCST1 CC SURG TANK	EQUIP	VT-3	NDEP 9.2 R0	X	-	-
							92 - COMPONENT COOLING SURGE TANK - SUPPORT IS LOCA'ED UNDER THE TANK MANHOLE COVER.

DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RE04 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 3 COMPLETED COMPONENTS

PAGE: 25

DIESEL JACKET WATER 3

SUMMARY EXAMINATION AREA		ASME			N	O	
NUMBER IDENTIFICATION		SEC. XI	CATGY	EXAM			D G T
		ITEM NO	METHOD	PROCEDURE			R E H
							E O E
							C M R
							REMARKS
							**CALIBRATION BLOCK**
<u>30151MHX0134</u>							
421700	JHX2A JW HEAT EXCH	EQUIP	VT-3	NDEP 9.2 RD	X	-	92 - JACKET WATER HEAT EXCHANGER (TRAIN A) - SUPPORT IS LOCATED FARTHEST FROM THE ENGINE.



DATE: 03/22/93  
 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1  
 INSERVICE INSPECTION SUMMARY - 1RED4 (SUPPORTS)  
 FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)  
 CLASS 3 COMPLETED COMPONENTS

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DIESEL LUBE OIL 3

SUMMARY EXAMINATION AREA		ASME			N	O	
		SEC. XI			O	G	T
		CATGY	EXAM		R	E	H
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E	O	E
					C	M	R
					REMARKS		
					**CALIBRATION BLOCK**		
<hr/>							
<u>30151MPUD134</u>							
424300	LCP1A LU CIRC PUMP	EQUIP	VT-3	NDEP 9.2 RG	X	-	-
					92 - LUBE OIL CIRC. PUMP (TRAIN A) - SINGLE BASE SUPPORT.		
<u>30151MSA0134</u>							
424700	LU2A LU PIPE SUPT	EQUIP	VT-3	NDEP 9.2 RG	X	-	-
					92 - LUBE OIL PIPE SUPPORT (TRAIN A) - SUPPORT IS LOCATED DOWNSTREAM OF LUBE OIL STRAINERS AND ADJACENT TO THE ENGINE CONNECTION ON 30151MSA0134.		

APPENDIX 3-B

PERSONNEL

APPENDIX 3-B

PERSONNEL

<u>Name</u>	<u>Company</u>	<u>Level</u>
S. K. Hubbard	HL&P	III
T. K. Smith	HL&P	I-T
L. D. Spiess	HL&P	II
C. D. Suhler	HL&P	II
A. R. Pennanen	NES	II
Groanvelt, H. L.	GTS	II
Mayer, K. J.	GTS	II
Trotter, E. J.	GTS	III

Company

HL&P - Houston Lighting & Power Company

NES - Nuclear Energy Services

GTS - GTS Duratek

I-T - Trainee

APPENDIX 3-C

OWNER'S REPORT FOR INSERVICE INSPECTIONS  
NIS-1 FORMS



FORM NIS-1 (Back)

8. Examination Dates 9/28/92 to 10/16/92 9. Inspection Interval from 08/25/88 to 08/25/98

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 1RE04 Summary Report for list of examinations performed. The examinations performed this outage constitute 14% of the required examinations for the current interval. The cumulative percentage completed for the interval is 50%.

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 3-23 19 93 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 8-15-92 to 3-24-93, 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  
Inspector's Signature  
B. R. Russell

Commissions Factory Mutual System  
Tex 826  
National Board, State, Province, and Endorsements

Date 3-24-19 93

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS  
ASME Code Class 1 - Component Supports Program**

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 1 4. Owner and Certificate of Authorization (if required) N.A.
5. Commercial Service Date 08/25/88 6. National Board Number for Unit N.A.

<u>PIPING SUPPORT MARK NO.</u>	<u>TYPE</u>
CV-1121-HS5005	GUIDE
RC-1003-RR07	RR
RC-1123-RR16	RR
RC-1123-RR06	RR
RC-1419-HS5006	SH-V
RC-1419-HS5001	SH-V
RH-1208-HL5005	SH-V
RH-1208-RR01	RR
SI-1208-HL5001	RR

<u>EQUIPMENT SUPPORT MARK NO.</u>	<u>DESCRIPTION</u>
RPR1B	RC PUMP RODS
RPR2B	RC PUMP RODS
RPR3B	RC PUMP RODS

HL&P by R. L. Beverly Date 5/23/93 Factory Mutual by B. R. Russell Date 3-24-93  
 R. L. Beverly System B. R. Russell, ANII





FORM NIS-1 (Back)

8. Examination Dates 8/26/92 to 10/26/92 9. Inspection Interval from 08/25/88 to 08/25/98
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 1RE04 Summary Report for list of examinations performed. The examinations performed this outage constitute 16% of the required examinations for the current interval. The cumulative percentage completed for the interval is 51%.
11. Abstract of Conditions Noted.  
 Relevant conditions were noted on three (3) supports: A) RH-1205-HL5013 - spring hanger setting out of tolerance; B) SI-1102-HL5004 - loose jam nut; C) SI-1105-RH01 - missing cotter key/dislodged shear pin. See Section 3.4.1 of 1RE04 Summary Report.
12. Abstract of Corrective Measures Recommended and Taken.  
 A) RH-1205-HL5013 and B) SI-1102-HL5004 - Rework is recommended although each support was analyzed to substantiate its integrity for its intended service and found to be acceptable.  
 C) SI-1105-RH01 - Rework completed. Additional examinations performed in accordance with IWF-2430(a). See Sections 3.4.1 and 3.4.2 of 1RE04 Summary Report.

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 applica N.A. Expiration Date N.A.  
 Date 3-23 1993 Signed Houston Lighting & Power Co. By R. L. 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 8-15-92 to 3-24-93, 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 Factory Mutual System  
 Inspector's Signature Tex 826  
 B. R. Russell National Board, State, Province, and Endorsements  
 Date 3-24-19 93

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS**  
**ASME Code Class 2 - Component Supports Program**

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 1 4. Owner and Certificate of Authorization (if required) N.A.
5. Commercial Service Date 08/25/88 6. National Board Number for Unit N.A.

<u>PIPING SUPPORT MARK NO.</u>	<u>TYPE</u>
AF-1012-HL5021	RR
AF-1012-HL5036	GUIDE
CS-1302-HL5002	RR
CS-1302-RR05	RR
CS-1302-SH10	SH-V
FW-1016-HL5012	RR
FW-1016-SH01	SH-V
MS-1003-HL5005	GUIDE
RH-1104-RR01	RR
RH-1103-SH08	SH-V
RH-1103-RR07	GUIDE
RH-1104-RR02	RR
RH-1204-RR07	RR
RH-1205-HL5013	SH-V (2)
RH-1205-HL5014	RR
RH-1205-HL5008	GUIDE
SI-1101-HL5018	RR
SI-1101-HL5022	RR
SI-1101-HL5020	RR
SI-1101-HL5025	RR
SI-1101-HL5016	RR
SI-1101-HL5004	RR
SI-1101-HL5013	RR
SI-1101-RR26	RR
SI-1102-RR03	RR
SI-1102-RR04	RR
SI-1102-RH07	RR
SI-1102-HL5004	RR
SI-1105-HL5004	SH-V
SI-1105-RH01	RR
SI-1105-RR24	RR
SI-1105-RR31	RR
SI-1106-RR72	RR
SI-1106-HL5009	GUIDE
SI-1106-RR51	RR
SI-1106-RR74	RR
SI-1106-SH80	RR
SI-1109-HL5003	GUIDE
SI-1139-HF5002	U-BOLT

HL&P by R. L. Beverly Date 3/23/93 Factory Mutual by B. R. Russell Date 3-24-93  
 R. L. Beverly System B. R. Russell, ANII



FORM NIS-1 (Back)

8. Examination Dates 8/26/92 to 10/26/92 9. Inspection Interval from 08/25/88 to 08/25/98
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 IRE04 Summary Report for list of examinations performed. The examinations performed this outage constitute 16% of the required examinations for the current interval. The cumulative percentage completed for the interval is 50%.
11. Abstract of Conditions Noted.  
 A relevant condition was found on one (1) piping support: AF-1011-HL5001 - rusted swivel ball joints. See Section 3.4.1 of IRE04 Summary Report.
12. Abstract of Corrective Measures Recommended and Taken.  
 Rework is recommended on piping support AF-1011-HL5001 although the support was analyzed to substantiate its integrity for its intended service and found to be acceptable.

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 3-23 19 93 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 8-15-92 to 3-24-93, 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 Factory Mutual System  
 Inspector's Signature National Board, State, Province, and Endorsements  
 B. R. Russell Tex 826

Date 3-24-1993

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS**  
**ASME Code Class 3 - Component Supports Program**

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 1 4. Owner and Certificate of Authorization (if required) N.A.
5. Commercial Service Date 08/25/88 6. National Board Number for Unit N.A.

<u>PIPING SUPPORT MARK NO.</u>	<u>TYPE</u>
AF-1054-HL5002	GUIDE
AF-1054-HL5008	GUIDE
AF-1011-HL5001	RR
AF-1086-HL5001	GUIDE
AF-1086-HL5004	GUIDE
AF-1086-HF5001	U-BOLT
CC-1101-HL5001	GUIDE
CC-1101-SH06	RR
CC-1102-HL5001	RR
CC-1102-RR06	RR
CC-1102-HL5002	GUIDE
CC-1110-HL5002	RR
CC-1103-HL5006	GUIDE
CC-1103-HL5007	GUIDE
CC-1106-SH01	SH-V
CC-1109-RH02	RR
CC-1103-SH13	RR
CC-1105-RR07	RR
CC-1105-RH04	RR
CC-1105-RR03	RR
CC-1106-HL5006	RR
CC-1106-RH12	RR
CC-1106-RH13	RR
CC-1106-HL5014	RR
CC-1106-HL5015	RR
CC-1106-HL5001	SH-V
CC-1109-RR11	RR
CC-1114-RR24	RR
CC-1114-RR25	RR
CC-1115-RR19	RR
CC-1115-RR22	RR
CC-1115-RR09	RR
CC-1115-RR10	RR
CC-1116-HL5001	RR
CC-1116-HL5002	RR
EW-1105-HL5003	RR
EW-1105-HL5004	RR
EW-1107-HL5002	GUIDE
EW-1107-HL5008	GUIDE
EW-1107-HL5003	GUIDE
EW-1107-HL5004	GUIDE (BASELINE)
EW-1125-HL5008	GUIDE (BASELINE)
EW-1128-HL5003	RR (BASELINE)
EW-1127-HL5001	GUIDE (BASELINE)

<u>EQUIPMENT SUPPORT MARK NO.</u>	<u>DESCRIPTION</u>
CCST1	CC SURG TANK
JHX2A	JW HEAT EXCH
LCP1A (DG Auxiliary Skid No. 11)	LU CIRC PUMP
LU2A (DG Auxiliary Skid No. 11)	LU PIPE SUPT

HL&P by R. L. Beverly Date 3-23-93 Factory Mutual by B. R. Russell Date 3-24-93  
 R. L. Beverly System B. R. Russell, ANII