

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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TABLE OF CONTENTS

1.0	1RE04 SUMMARY PEPORT							
	1.1 1.2	Introduction Scope of Summary Report	1-1 1-1					
2.0	WEI	LD EXAMINATIONS						
	2.1	Introduction	2-1					
	2.2	Scope of Examinations	2-1					
	2.3	Personnel, Procedures, and Equipment	2-3					
		2.3.1 Personnel Qualifications 2.3.2 Examination Procedures 2.3.3 Equipment 2.3.4 Materials 2.3.5 Calibration Blocks	2-3 2-3 2-3 2-3 2-4					
	2.4	2.4 Summary of Examinations						
		2.4.1 Examination Methods 2.4.2 Augmented Examinations 2.4.3 Data Comparison 2.4.4 Additional and Successive Examinations	2-4 2-4 2-5 2-5					
	2.5	Examination Results and Corrective Actions	2-5					
	2.6	2.6 Certification of Inspections						
	App App App	endix 2-A Summary of Examinations endix 2-B Personnel/Equipment/Materials endix 2-C HL&P Procedures endix 2-D ISI Examination Limitations endix 2-E Owner's Report for Inservice Inspections - NIS-1 Forms	2-7 2-36 2-40 2-43					

TABLE OF CONTENTS (cont'd)

3.0	CON	COMPONENT SUPPORT EXAMINATIONS									
	3.1	Introduction	3-1								
	3.2	Scope of Examinations	3-1								
	3.3	Personnel and Procedures	3-2								
		3.3.1 Personnel Qualifications 3.3.2 Examination Procedure	3-2 3-3								
	3.4	Summary of Examinations	3-3								
		3.4.1 Examination Results and Corrective Actions	3-3								

3.4.2 Additional and Successive Examinations

Summary of Examinations

Owner's Report for Inservice

Inspections - NIS-1 Forms

Certification of Inspections

Personnel

3.5

Appendix 3-A

Appendix 3-B

Appendix 3-C

3-4

3-4

3-5

3-32

3-34

1.0 1RE04 SUMMARY REPORT

L1 Introduction

This Summary Report describes Houston Lighting & Power Company's (HL&P) inservice inspection (ISI) of selected Class I, 2, and 3 components of the South Texas Project Electric Generating Station, Unit 1 (STPEGS-1) performed from August 26 to completion of the fourth refueling outage (1RE04) 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 1RE04 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 I0CFR50.55a, the 1983 Edition of Section XI Code with the Summer 1983 Addenda, and other regulatory and Code bases as specified in the Ten Year ISI Plan. This Summary Report satisfies the reporting requirements of IWA-6000 of the Section XI Code for welds and component supports.

1.2 Scope of Summary Report

This Summary Report describes the ISI examinations performed up through 'RE04 on welds (Section 2) and component supports (Section 3). Each of these sections describes the scope of examinations performed; describes the personnel, procedures, and equipment utilized for the examinations; provides a summary of the examinations, examination results, and corrective actions; and includes copies of the examination certification (NIS-I) forms.

The ISI examinations performed on Class I and 2 welds and other examination areas (e.g., bolting) are described in Section 2 of this Summ. 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 I, 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 I, 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

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	Wes	PE		
	Fell			***
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19 89	360			
	West			
	Fall			
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19 88	lips .		1	
	196		-	
	3	1	1	25
		eriod		lutage #
Year				- 400

CO - Commercial Operation EOI - End of Interval PERIOD I Minimum 16 % PERIOD I Maximum 34 % SUMMARY Comp.
Welds Program 31 %
Supports Program 34 %

PERIOD 2 Minimum 50 %

Ref cling Outage	4	10	Cum
PERIOD 2	28	36	26
(In Progress)	Comp	Comp.	Comp.
Welds Program	18 %	% 0	49 %
Supports Program	15 %	0 %	50 %

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:

- "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:

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

2.3 Personvel, 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 IRE04 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 S am 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

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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NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	£			**CALIBRATION BLOCK**
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	CLOSURE HEAD BOLTING (FI	G NO A-RPV-3A, E	2					
005302	ZA	B-G-1	MT	ND 7.2 RD	×			UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	86,10	UTO	U11-011 R0	. Х		×	NUT IN LIEU OF MT IN THIS AREA.
			U143		×	*	4	
								CS-46
DOFFICE		8-6-1	MT	NDEP 7.2 RO	×			UT PERFORMED ON THE THREADED AREA OF THE
005305		86.10	UTO	UT1-011 R0	×			
	CLOSURE NUT	20,10	U143	011-011.80				NOT IN CICO OF NO IN THE INITIAL PRICES.
								CS-46
005308		B-G-1		NDEP 7.2 RD	Х			
	CLOSURE NUT	B6.10	U10	UT1-011 RD			20	NUT IN LIEU OF MY IN THIS AREA.
,			UT43		×		*	**CS-46**
005311	11A	9-G-1	MT	NDEP 7.2 RD	X		÷	UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	56.10	UTO	UT1-011 R0	X	+		NUT IN LIEU OF MY IN THIS AREA.
			U143		Х	1901		
								CS-46
005314	166	B-G-1	MT	NDEP 7.2 RO	×	1		UT PERFORMED ON THE THREADED AREA OF THE
200.000.00	CLOSURE NUT	86.10	UTO	UT1-011 R0	X			
			UT43		×			
								CS-46
005317	176	B-G-1	мт	NDEP 7.2 RD				UT PERFORMED ON THE THREADED AREA OF THE
003317	CLOSURE NUT	86.10	UTO	UT1-011 RO				NUT IN LIEU OF MT IN THIS AREA.
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								CS-46
hormon	204		W.Y	1000 7 5 60				UZ DEDECODNES ON THE THREADER AND A THREADER
005320		B-G-1	MT	NDEP 7.2 RO				UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	B6.10	UT0 UT43	U11-011 RD				NUT IN LIEU OF MT IN THIS AREA.
								CS-46
8								

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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	CLOSURE HEAD BOLTING (FIG NO A	-RPV-3A_B	2					
005323		B-G-1						UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	B6.10	7.7	UT1-011 R0				NUT IN LIEU OF MT IN THIS AREA.
			U143		Х	1		*****
								CS-46
005326	26A	B-G-1	MT	NDEP 7.2 RO	Ж			UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	B6.10	U10	UT1-011 R0	X			NUT IN LIEU OF MT IN THIS AREA.
			UT43		X			
								CS-46
005329	29A	B-G-1	MT	NDEP 7.2 RD	Х		*	UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	86.10	UTO	UT1-011 R0	X.		*	NUT IN LIEU OF MT IN THIS AREA.
			U143		×			
								CS-46
005332	32A	B-G-1	MT	NDEP 7.2 RO	×			UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT			UT1-011 R0	К			NUT IN LIEU OF MT IN THIS AREA.
			U143		Х	×		
								CS-46
005335	35A	B-G-1	MT	NDEP 7.2 RO	X	-	100	UT PERFORMED ON THE THREADED AREA OF THE
	CLOSURE NUT	B6.10	UTO	UT1-011 R0	Х	*	*	NUT IN LIEU OF MT IN THIS AREA.
			UT43		X	÷	- 01	
								CS-46
005402	AS	B-G-1	PT	NDEP 6.6 RD	×			
	CLOSURE STUD				X			
				UT1-015 R0	Х	77		
			UT60(Shoe)		×	*		
			UT60(Prb)		×	100		**CS-45A/CS-45B**
			UTBO(Prb)	UT1-010 R0	Ж	٠		
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005405	54			NDEP 6.6 RO		ď		
	CLOSURE STUD	86.30		NDEP 7.2 RD				
B*				UT1-015 RD				
			UT60(Shoe)					##P0./T6/PC./ED##
				HE1-040 BD				**CS-45A/CS-45B**
			UIBU(PPD)	UT1-010 R0	A			

PAGE: 3

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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	CLOSURE HEAD BOLTING (FIG NO A	-RPV-3A,B	2					
005408		B-G-1			Х			
	CLOSURE STUD	B6.30		NDEP 7.2 RD		7		
				UT1-015 RO		100		
			U160(Shoe)			-		The second second
			U160(Prb)					**CS-45A/CS-45B**
			UTBU(Prb)	UT1-010 R0	X			
005411		0.0.4	20.7	when 4 4 mm				
000411		B-G-1		NDEP 6.6 RD NDEP 7.2 RD				
	CLOSURE STUD	B6.30		UT1-015 RD				
			UT60(Shoe)					**CS-45A/CS-45B**
				UTI-010 RD				C5-H2R/C5-H2B
			UIDD(FED)	DIT-DID 80				
9								
005414	144	B-G-1	PT	NDEP 6.6 RD	×			
********	CLOSURE STUD	86.30		NDEP 7_2 RO		4		
				U11-015 R0				
			UT6D(Shop)					
			U160(Prb)					**CS-45A/CS-45B**
					×	-		
005417	174	B-G-1	PT	NDEP 6.6 RD	Ж		-	
	CLOSURE STUD	B6.30	MT	NDEP 7.2 RD	Ж		4	
			U145(Shoe)	UT1-015 RO	Ж	ń.		
			U160(Shoe)		X		100	
			UT60(Prb)		×	(41)	2	**CS-45A/CS-45B**
			U180(Prb)	UT1-010 R0	×		Ä.	
005420	20A	B-0-1		WDEP 6.6 RO	×	-	14.1	
	CLOSURE STUD	B6.30		NDEP 7.2 RD	×	- 100	-10	
				UT1-015 RD	×	*	*	
			UT60(Shoe)			+		
			UT60(Prb)					**CS-45A/CS-45B**
			UTBO(Prb)	UT1-010 R0	×		*	

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1 PAGE:

DATE: 03/22/93 REVISION: 0

INSERVICE INSPECTION SUMMARY - 1RE04 (.2LDS)
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)
CLASS 1 COMPLETED COMPONENTS

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		SEC. XI			R	E	H	
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			(a,b,b,b,b,a,b,a,b,a,b,b)	(k+1)(k+1) + (k+1)(k+1) + (k+1)	4	- 100	*	*****************************

	CLOSURE HEAD BOLTING (FIG NO A	-RPV-3A,B	1					
005423	23A	B-G-1	PT	NDEP 6.6 RO	×			
	DLOSURE STUD	86.30			X			
				UT1-015 RD	×			
			U160(Shoe)		×	-		
			UT60(Prb)		Ж			**CS-45A/CS-45B**
			UTBO(Prb)	UT1-010 R0	X	100		
				WATER ALL BE				
	26A	B-G-1		NDEP 6.6 RD	X			
	CLOSURE STUD	86.30		NDEP 7.2 RO	X			
				UT1-015 R0	X			
			U160(Shoe)					**CS-45A/CS-45B**
			UT60(Prb)					P2-438/P2-838
			DIBU(PTD)	UTI-010 R0	×			
005429	29A	B-G-1			Х			
	CLOSURE STUD	B6.30		NDEP 7.2 RD	Х		1961	
			UT45(Shoe)	UTI-015 R0	Х		*	
			UT60(Shoe)					
			UT60(Prb)					**CS-45A/CS-45B**
			UTBO(Prb)	U11-010 R0	Ж	-		
005432	32A	B-G-1	PT	NDEP 6.6 RD	Х			
	CLOSURE STUD	B6.30		NGEP 7.2 RO	Х	÷		
			UT45(Shoe)	UT1-015 R0	К	in.	-	
			UT60(Shoe)		Ж			
			UT60(Prb)		Ж	7	*	**CS-45A/CS-45B**
			UT80(Prb)	UT1-010 R0	Ж			
005435	35A	8-G-1	FI	NDEP 6.6 RD	Х			
	CLOSURE STUD	86.30	MT	NDEP 7.2 RO	X		-	
			UT45(Shoe)	UT1-015 R0	Х			
			U160(Shoe)		X	4	÷	
			U160(Prb)		Х	+		**CS-45A/CS-45B**
			U180(Prb)	UT1-010 RD	Х	+	+	

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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				SEC. X1				R	E	Н	
	SUBMMERY	FXAMINA	TION AREA	CATGY	EXAM			Ē	0	Ε	REMARKS
		IDENTIF:			METHOD	PROCES	IDE	C-			
	NUMBER	IDEN117	13/61/15/8		THE THIRD			-			COLUMN SERVICE COLUMN

					,						
		CLOSURE	HEAD BOLTING (FIG NO A	-RPV-3A,B	2						
	005602	2A		B-G-1	V1-1	NDEP 9	.3 R1	X			
		CLOSURE	WASHER	B6.50							
	005605	5A		B-G-1	V1-1	NDEP 9	.3 R1	Х			
			WASHER	B6.50							
		EL SUDOIL									
					100 4	District of	7 07				
		EA			V1-1	NUER Y	.3 R1	X			
		CLOSURE	WASHER	B6.50							
k											
r	005611	33A		B-G-1	V1-1	NDEP 9	.3 R1	X	٧.,	-	
		CLOSURE	WASHER	86.50							
	005614	166		8-6-1	VT-1	NDEP S	.3 R1	X		4	
	002075	CLOSURE		86.50							
		LLUSUNI.	ansiich.	370-2-70							
	005617	17A			V1-1	NDEP 9	.3 R1	Ж	4	*	
		CLOSURE	WASHER	B6,50							
	005620	20A		B-G-1	VI-1	NDEP 9	.3 R1	X	10		
		CLOSURE		86.50							
	nnt/99	274		P-7-4	MT. S	American o	.3 R1	v			
		23A			W1-3	MISEP)	1 A 1				
		CLOSURE	WASHER	96.50							

005635 35A

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1 INSERVICE INSPECTION SUMMARY - TREO4 (WELDS) FIRST INTERVAL, SECOND PERIOD, FIRST DUTAGE (92RF) CLASS 1 COMPLETED COMPONENTS

PAGE:

REACTOR	PRESSURE VESSEL							
		Annual Control						
		ASME				G		
		SEC. XI				£		
	EXAMINATION AREA	CATGY	EXAM		E	0	£	REMARKS
NUMBER	1DENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
	********************	*****						***************************************
	CLOSURE HEAD BOLTING (FIG NO A	-RPV-3A,B	2					
005626	26A	B-G-1	VT-1	NDEP 9.3 R1	×			
	CLOSURE WASHER	B6.50						
005629	29A	8-6-1	V1-1	NDEP 9.3 R1	х			
	CLOSURE WASHER	86.50						
D05632	32A	B-G-1	VT-1	NDEP 9.3 R1	×			
Section 1	CLOSURE WASHER	86.50						
	Action and the second							

VESSEL	INTERIOR	(FIG	NO	A-RPV-	1)

CLOSURE WASHER

006200	VESSEL INTERIOR	B-N-1 VT-3	NDEP 9.3 R1 X	EXAMINED THE ACCESSIBLE AREAS WHICH
		813.10		INCLUDED THE FLANGE SEAL SURFACE AND THE
				OUTLET NOZZLE BORE REGION.

B-G-1 V1-1 NDEP 9.3 R1 X - -

B6.50

PAGE: 7

DATE: 03/22/93 REVISION: D SOUTH TEXAS PROJECT ELECTRIC GENERATING ST/ :ON UNIT 1 INSERVICE INSPECTION SUMMARY - TRED4 (WELDS) FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF) CLASS 1 COMPLETED COMPONENTS

PRESSUR1 ZER

					K		0	
		ASME			Ö	G	1	
		SEC. KI			R	£	H	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	0	М	R	**CALIBRATION BLOCK**
		*****					4	***********
	NOZZLE TO SAFE-END AND SAFE-EN	D TO NOZZ	LE WELDS (FIG NO A-PRZ-1)				
047500		0.0	20.7	MODEL & D. D.				DO - 117/5 // ET DI ON THE MEID AND POTH
012100	PRZ-1-N4B-SE	B-F	PT	NDEP 6.2 R4				92 - UT45/45T RL ON THE WELD AND BOTH
	SAFETY NOZZLE	B5.40	U145	UT1-001 R1	×	(6)	+	SIDES OF THE WELD: SS-70. UT45/45T
			UT451		Ж	100	-	REFRACTED SHEAR ON THE WELD AND FROM THE
			U145	UT1-005 R1	X	100	4	WOZZLE SIDE: CSCL-69.
			UT451		Х			**CSCL-69/SS-70**
642200	557 4 W/F PT	B-F	PT	NDEP 6.2 R4	200			92 - UT45/45T RL ON THE WELD AND BOTH
012200	PRZ-1-N4C-SE							
	SAFETY NOZZLE	85.40	UT45	U11-001 R1	X		100	SIDES OF THE WELD: SS-70. UT45/45T
			UT4ST		×	-	190	REFRACTED SHEAR ON THE WELD AND FROM THE
			UT45	UT1-005 R1	X	100		NOZZLE SIDE: CSCL-69.
			DITAST		×	- 20		**rcri -40/cc-70**

PAGE:

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 1 COMPLETED COMPONENTS

				COMPLETED COMPO				
STEAM G	ENERATOR 18 (PRIMARY SIDE)				N			
		ASME				0		
						E		
		SEC. XI	PUNA			0		REMARKS
	EXAMINATION AREA	CATGY	EXAM	PROCEDURE			R	
NUMBER	1DENTIFICATION	ITEM NO	ME I HOU	PROUDDURE				
	HEAD WELDS (FIG NO A-SG-Z)							
016000	SG-18-SR1	B-B	UTOW	UT1-004 R0	×			92 - NO UT FROM THE SUPPORT RING SIDE
	CHANNEL HEAD CAP TO SUPPORT	B2.31	U145	UT1-017 RD	Х		+	DUE TO SUPPORT RING CONFIGURATION.
	RING		U1451		Х			
			UT60		X	4	-	
			UT60T		х		-	**CSCL-36**
016100	SG-18-SR2	B-B	UTON	UT1-004 RD	×			92 - LIMITED UT FROM THE TUBE PLATE ST
E IM I WU	SUPPORT RING TO TUBE PLATE	B2_40	U145	UT1-017 RD		К		DUE TO PROXIMITY OF WELDED PLATES. NO
	DOCUMENTS OF STREET STREET		UT451					UT FROM THE SUPPORT RING SIDE DUE TO
			U160			X		SUPPORT RING CONFIGURATION.
			U1601		×	*		**CSCL-36**
	MOZZLE TO VESSEL LOWER HEAD W	ELDS (FIG	NO A-50-2	2				
016200	SG-18-IN	B-0	UTDW	UT1-604 R0	X			92 - LIMITED UT FROM THE NOZZLE SIDE D
	INLET NOZZLE TO CHANNEL HEAD	B3.130	U145	UTI-017 R0	Х	100	100	TO NOZZIE CONFIGURATION AND FROM THE
	CAP		U1451		K		1	HEAD DL. TO PROXIMITY OF VIBRATION
			UT60		X	100	1	SENSOR INSTRUMENTATION BOX.
			UT601		×			**CSCL-36**
016300	SG-18-DN	B-D	UTOW	UT1-004 R0	Х			92 - LIMITED UT FROM THE NOZZLE SIDE D
	CHANNEL HEAD CAP TO DUTLET	B3.130	U145	UT1-017 RO	×	36		TO NOZZLE CONFIGURATION AND FROM THE
	WOZZLE		UT451		×			HEAD DUE TO PROXIMITY OF VIBRATION
			UT60		K			SENSOR INSTRUMENTATION BOX.

CSCL-41

UT1-016 RD

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

INLET WOZZLE INSIDE RADIUS B3.140

B-D UT28

D16400 SG-18-1N-1R

SECTION

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: 9

STEAM GENERATOR 1B (PRIMARY SIDE)

N O ASME OST

SEC. XI REH

SUMMARY EXAMINATION AREA CATGY EXAM E D E REMARKS

NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATICH BLOCK**

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

OUTLET NOZZLE INSIDE RADIUS 83.140

SECTION

CSCL-41

MANUAY BOLTING (FIG NO A-SG-2)

016800 SG-18-1MB B-G-2 VT-1 NDEP 9.3 R1 X - -

INLET MANWAY BOLTING B7.30

016900 SG-18-OMB B-G-2 VT-1 NDEP 9.3 R1 X - -

DUTLET MANWAY BOLTING 87.30

PAGE: 10

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

			School S	CONTRACTOR CONTRACTOR				
REACTOR	COOLANT SYSTEM							
					N O		0	
		ASME					- 6	
		SEC. XI	CURR				E	REMARKS
	EXAMINATION AREA	CATGY			C			**CALIBRATION BLOCK**
NUMBER	IDENTIFICATION	ITEM NO	METHOD					ENLIGHTISM DISSE

	31-RC-1202-NSS - LOOP 2 (FIG.)	NO A-RC-2)						
200100		B-F	PT	NDEP 6.2 R4				92 - UT45(RL) FROM THE ELBOW AND NOZZLE
100150		85.130	U145					THE PART OF THE PA
	SG OUTLET NOZZLE TO ELBOW	\$3,130	U1451					SIDE: CSS-80. UT451(RS) ON THE WELD AND
			U160					THE RESERVE OF THE CONTROL THE THE
			UT451					
			PITANI		.00			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		B-F	PT	NDEP 6.2 R4	×			92 - UT45(RL) FROM THE ELBOW AND NOZZLE
100700	ELBOW TO SG INLET NOZZLE	85,130	U145					SIDES: CSS-BO. UT451(RL) ON THE ELBOW
	CLBOM TO SO INICI MOLLIE	207100	UT427					SIDE: CSS-BD. UT45T(RS) ON THE WELD AND
			U160				4	THE RESERVE AND THE PROPERTY AND THE PARTY A
100			U1451					NOZZLE SIDE: CS-78.
								LIMITED UT DUE TO WELD AND NOZZLE
								CONFIGURATION.
								CS-78/SS-79/CSS-80
	27.5-RC-1103-NSS - LDOP 1 (F)	S NO A-RC	:1)					
101270		8-1	PT	NDEP 6.2 R4	×			92 - UT45 FROM THE PUMP SIDE: CSS-80.
101610	REACTOR COOLANT PUMP TO PIPE	39.11	UT45			ж		UT45 FROM THE PIPE SIDE: CCSS-17. UT45T
	REPERTURE ASSOCIATION FOR THE PARTY OF THE P		UT45T					ON THE PUMP SIDE: CSS-8D. UT45T ON THE
			*******					WELD AND PIPE SIDE: CCSS-17.
								CCSS-17/CSS-BD
	27.5-RC-1203-NSS - LOOP Z (F)	G NO A-RC	-22					
303430		51-11	PT	NDEP 6.2 R4	×	4	16	92 - UT45 FROM THE PUMP SIDE: CSS-80.
10.1920	REACTOR COOLANT PUMP TO PIPE							UT45 FROM THE PIPE FIDE: CCSS-17. UT451
	DATE OF THE PARTY OF THE	****	U1451					ON THE PUMP SIDE: CSS-80, UT45T ON THE
			SCORE		95			WELD AND PIPE SIDE: CCSS-17.
								THE THE PART WAS THE

CCSS-17/CSS-80

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

PAGE: 11

REACTOR COOLANT SYSTEM

					К		0	
		ASME			O	G	1	
		SEC. XI						
	EXAMINATION AREA	CATGY						REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	E.	M.		**CALIBRATION BLOCK**
******	************							
	16-RC-1412-MSS (FIG NO A-RC-5)							
101680	3	B-J	P1	NDEP 6.2 R4	×		al.	
	BENT PIPE TO ELBOW	89.11	UT45	U1)-001 R1		Ж		
			U1451		×		*	
								SS-16
101920	7	B-J	PT	NDEP 6.2 R4	X			
				W11-001 R1				
			UT45T		×			
								SS-16
101930		B-J	PT	NDEP 6.2 R4	-X			
101920			U145	UT1-001 R1		х		
6			U1451			-		
y								**\$\$-16**
101940	9			NDEP 6.2 R4	36			
	BENT PIPE TO BRANCH CONNECTION	DY-11	U1451	D11-201 K)		×		
			2017					**55-76**
	12-RC-1125-BB1 (FIG NO A-RC-9)							

102240	PIPE TO ELBOW	89.11						92 - EXAMINED AFTER REMOVAL OF HANGER HL5009 (REF. SR# 158111).
	Park to kinde	87,71	U1451	D11 007 K1		30		NEADON AND LINE LAW LINE
								55-21
	12-RC-1212-BB1 (FIG NO A-RC-10	2						
-1112530	8	B-J	97	NDEP 6.2 R4	167			92 - USED UT60 REFRACTED SHEAR FOR
196330	PIPE TO VALVE	89.11	U145	UT1-001 R1				ADDITIONAL COVERAGE.
		. 5 (6)	UTAST					
			U160	UTI-005 R1		K		
								55-21

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: 12

DEACTOR	COOLANT SYSTEM		Walnest A	WATER DE CARE MARIN MITTERS				
KEALTUR	COOLARY SISIER				N.		0	
		ASHE				G		
		SEC. XI				E		
SHMMARY	EXAMINATION AREA	CATGY	EXAM			0		REMARKS
	IDENTIFICATION		METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
212111	*****		****		*			
	12-RC-1221-881 (FIG NO A-RC-9)							
102680	6	B-J	PT	NDEP 6.2 R6	Х	*	in.	
	PIPE TO ELBOW	89.11	UT45	UTI-001 R1	*	×	3	
			UT451		χ	**	-	
								SS-21
*00000			6.7	amen'z 5 kg				92 - EXAMINED AFTER REMOVAL OF HANGER
102700		B-J	U745					HL5005 (REF. SR# 158112).
	PIPE TO PIPE	89.11	U1451	Dil-noi ki		0.		HEROID THEY, DAY INDITES.
			97821					**SS-21**
	6-RC-1003-BB1 (FIG NO A-RC-13)							
103754	11A	B-J	PT	NDEP 6.2 R4	X	-	30	92 - BASELINE EXAMINATION (REF. MOD
	PIPE TO TEE	B9.11	UTOL	U11-004 R0	К	1	(8)	91-019).
			UTAS	UT1-001 R1		Ж	100	
			LIT45T		Х			
								<\$-8
103756	640	B-J	P1	NDEP 6.2 R4	V			92 - BASELINE EXAMINATION (REF. MOD
302730	TEE TO PIPE	89.11	UTOL	UT1-004 R0				91-019).
	122 10 1112	W.T. 4.7.1	UT45	UT1-D01 R1		Х		
			UT45T					
								\$5-8
	6-RC-1004-MSS (FIG NO A-RC-6)							
103950			VT-1	NDEP 9.3 R1	Ж		-	92 - BASELINE EXAMINATION AFTER BOLTING
	FLANGE BOLTING (N1RCPSV3452)	B7.50						REPLACEMENT PER SR#115649.
	6-RC-1009-NSS (FIG NO A-RC-6)							
	N 19 19 19 19 19 19 19 19 19 19 19 19 19							
104040	1	B-2	PT	NDEP 6.2 R4	×			92 - UT45/45T RL ON THE WELD AND ELBOW
	SAFE END TO ELBOW		UT45	UT1-001 R1				SIDE: SS-9. UT45/45T RL ON THE SAFE END
			U1451					SIDE: \$5-70.
								SS-9/SS-70

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

PAGE: 13

REACTOR COOLANT SYSTEM

Ki	CALTUR	COCILANT STSTEM							
						N		D	
			ASME			0	G	3.	
			SEC. XI			R	E	31	
SI	UMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E.	REMARKS
N.	JMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
313		*********************							*******************************
		6-RC-1009-NSS (FIG NO A-RC-6)							
11	04060	3	B-J	PT	NDEP 6.2 R4	X		14	
		PIPE TO RETURN ELBOW	B9.11	UT45	U11-001 R1		Х		
				UT451		×	100		
									55-9
71	04130		B-G-2	V1-1	NDEP 9.3 R1	×			92 - BASELINE EXAMINATION AFTER BOLTING
		FLANGE BOLTING (NTRCPSV3451)	B7.50						REPLACEMENT PER SR#115648.
		6-RC-1012-NSS (FIG NO A-RC-6)							
0.0	04220		B-J	PT	NDEP 6.2 R4	×		-Ai	92 - UT45/45T RL ON THE WELD AND ELBOW
		SAFE END TO ELBOW	B9.11	UT45	UT1-001 R1				SIDE: SS-9, UT45/45T RL ON THE SAFE END
8		SHIE END TO ELDOW	97.11	UT45T	V11 V411 K1				
				W19421		0			SIDE: SS-70.
									SS-9/SS-70
11	04240	3	8-1	PT	NDEP 6.2 R4	X			92 - LIMITED UT DUE TO PROXIMITY OF
		PIPE TO ELBOW	80_11	U145	U11-001 R1		×		STRUCTURAL STEEL.
				UT451					
				V1421					****
150	04320	11	B-J	PT	WDEP 6.2 R4	X		~	92 - USED LITEO REFRACTED SHEAR FOR
		PIPE TO FLANGE	89.11	UT45	UT1-001 R1		30	*	ADDITIONAL COVERAGE.
				UT45T		Х			
				U160	UT1-005 R1		Х	*	
									S\$-9
71	04330	11FB	B-G-2	VT-1	NDEP 9_3 R1	×	í		92 - BASELINE EXAMINATION AFTER BOLTING
		FLANGE BOLTING (N1RCPSV3450)	B7.50						REPLACEMENT PER SR# 115647.
		3-RC-1015-NSS (FIG NO A-RC-7)							
- 11	06270	3	B-J	PT	NDEP 6.2 R4	X	т		
		ELBOW TO PIPE	89.21						
,									

DATE: 03/22/93

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: 14

REVISION: D

107950 6

PIPE TO VALVE

REACTOR COOLANT SYSTEM N D 0 6 7 ASME SEC. XI REH CATGY EXAM E D E REMARKS SUMMARY EXAMINATION AREA ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK** NUMBER IDENTIFICATION 3-RC-1015-NSS (FIG NO A-RC-7) 106310 7 B-J PT NDEP 6.2 R4 X - -ELBOW TO PIPE 89.21 2.5-RC-1003-BB1 (FIG NO A-RC-13) B-J PT NDEP 6.2 R4 X - 4 92 * BASELINE EXAMINATION (REF. MOD 107900 1 TEE TO PIPE R9.21 91-019). PT 107910 2 B-J NDEP 6.2 R4 X - - 92 - BASELINE EXAMINATION (REF. MOD. PIPE TO ELBOW 89.21 91-0195. NDEP 6.2 R4 X - 4 92 - BASELINE EXAMINATION (REF. MOD 107920 3 B-J PT 91-019). ELBOW TO PIPE 89.21 M - - 92 - BASELINE EXAMINATION (REF. MOD 107930 4 B-J PT NDEP 6 7 R4 89.21 91-019). PIPE TO VALVE NDEP 6.2 R4 X - - 92 - BASELINE EXAMINATION (REF. MOD 107940 5 B-J PT VALVE TO PIPE B9.21 91-0195.

NDEP 6.2 R4 X - - 92 - BASELINE EXAMINATION (REF. MOD

91-019).

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8-1

B\$ 21

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: 15

RESIDUA	L HEAT REMOVAL SYSTEM							
					N		D	
		ASME				G		
		SEC. XI			R	£	H	
	EXAMINATION AREA	CATGY			E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	0	М	R	**CALIBRATION BLOCK**
	12-RH-1201-BB1 (FIG NO A-RH-2)							
200520		B-J		NDEP 6.2 R4		Ġ		
	PIPE TO ELBOW	89.11	UT45 UT45T	UT1-001 R1				
			01421					**SS-21**
200560		B-J	PT	NDEP 6.7 R4		*		
	PIPE TO ELBOW	89.11	UT45	U11-001 R1		X		
			UT451		ж			**SS-21**
200700	11	B-J	PT	NDF.P 6.2 R4	Х	.+.		
	PIPE TO ELBOW	B9.11	UT45	U11-001 R1				
			UT45T		Ж	*		asen bias
								SS-21
200760	14	B-J	PI	NDEP 6.2 R4	×	*	*	
	PIPE TO PIPE	89.11	U145	U11-001 R1		Х	+	
			U1451		K	*	*	
								SS-21
	8-RH-1108-BB1 (FIG NO A-RH-4)							
202480			208	SMEN Z T K				92 - EXAMINED AFTER REMOVAL OF HANGER
202400	VALVE TO PIPE	B-J B9.11	P1 U145	UT1-001 R1		X		HL5002 (REF. SR# 158113), USED U160
	WALVE TO FIFE	20.4.2.1	U1451	MIT DUI KI				REFRACTED SHEAR FOR ADDITIONAL COVERAGE.
			U160	UT1-005 R1		X		RETRIETED DIENK TON NODITIONE SOTERNIES.
								S\$-10
	9.0U.1309.001 /F1/ NO 8.0U.31							
	8-RH-1208-BB1 (FIG NO A-RH-2)							
202920	1	B-J	PT	NDEP 6.2 R4	X	*	*	92 - EXAMINED AFTER REMOVAL OF HANGER
	VALVE TO PIPE	89.11	V1.5	UT1-001 R1	160	Х		
			UT45T		X	*		REFRACTED SHEAR FOR ADDITIONAL COVERAGE.
			U160	UTI-005 R1	. e	Х	2	
Die.								**55-10**

PAGE: 16

ADDITIONAL COVERAGE.

SS-15

χ - -

- X -

DATE: 03/22/93 REVISION: 0

PIPE TO VALVE

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

p				CLASS 1	COMPLETED COMPONE	NIS			
	SAFETY	INJECTION SYSTEM							
						N		0	
			ASME			0	G	1	
			SEC. XI			R	Ε	H	
	SUMMARY	EXAMINATION AREA	CATGY	EXAM		£	0	E	REMARKS
	NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
	******				***********		Ť	lang.	
		12-51-1218-881 (FIG NO A-51-2)							
	230300	3	B-J	PT	NDEP 6.2 R4	Х			
		REDUCING TEE TO PIPE	B9.11	UT45	UT1-001 R1		Х	3	
				UT451		×	k.	31	
									SS-21
	230320	4	B-1	PT	NDEP 6.2 R4	Х	*	*	
		PIPE TO VALVE	89.11	UT45	UT1-001 R1		Х	-	
				UT45T		Х			
									\$\$-21
		12-S1-1315-BB1 (-1G NO A-S1-2)							
	230700	10	B-J	PT	NDEP 6.2 R4	X	100		
P		PIPE TO VALVE	89.11	UT45	U11-001 R1		×	-	
				U1451		Х			
									\$5.21
		8-51-1208-BB1 (FIG NO A-51-4)							
	231220	4	B - J	PT	NDEP 6.2 R4	Х		×	92 - USED UT60 REFRACTED SHEAR FOR

UT1-001 R1

UT1-005 R1

B9.11

10145

UT451 UT60

7*GE: 17

DATE: 03/22/93 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1 INSERVICE INSPECTION SUMMARY - TRED4 (WELDS)

		FIRST IN		COND PERIOD, FIRST		AGE	(9)	2RF)
CTTAN C	PARTATAN IN APPROXIMANT SINES		CLASS 2	COMPLETED COMPONE	N1S			
STEAM G	ENERATOR 1D (SECONDARY SIDE)						n	
		ASME				G		
		SEC. XI				E		
STRIMARY	EXAMINATION AREA	CATGY	EXAM			0		REMARKS
	IDENTIFICATION	ITEM NO		PROCEDURE			R	**CALIBRATION BLOCK**
	***********		******					*******************************
	CIRCUMFERENTIAL WELDS (FIG NO	B-SG-1)						
303450	SG-10-S4	C-A	LITOW	UT1-004 R0	х	ř		
	LOWER SHELL SECTION B TO	C1.10	U145	UT1-017 RD	X	14	۳.	
	TRANSITION CONE		U1451		Х	*	ď.	
			U160		Х			
			UT60T		Ж	1		**CS-54**
303500	sg-1D-s5	Č-A	UTDW	UT1-004 R0	×			92 - ONE UT45 AND FOURTEEN UT60 CODE
	TRANSITION CONE TO UPPER SHELL	C1.10	UT45	U11-017 R0				ALLOWABLE INDICATIONS. THESE SAME
	SECTION C		UT45T		X			INDICATIONS WERE SEEN DURING PS1 AND
			U160				Х	HAVE NOT CHANGED.
			U1601		X	×		**CS-54**
303600	SG-1D-S7	C-A	UTOW	U11-004 R0	Х	*	-	
	UPPER CHELL SECTION D TO UPPER	C1.20	UT45	UT1-017 RO	Х	- 10-1		
	HEAD		UT451		Х	6	1	
			U160		Х	+		
			U160T		х			**CS-54**
	NOZZLE TO SHELL WELDS AND INSI	DE RADIUS	SECTIONS	(FIG NO 8-SG-1)				
707/70			447	when 7 1 n7				
202020	SG-10-FW10	C-8	MT	NDEP 7.1 R3 UT1-004 R0				
	FEEDWATER NOZZLE TO STUB	C2.21	WOTU					
	BARREL		UT45	UT1-017 R0		*		
			U1451					**** ****
			U160				*	**CS-55**
			UT60T		х	*		
303700	SG-1D-FW10-IR	C-B	UT25	UT1-016 R0	х			
	INSIDE RADIUS SECTION	C2.22	UT29		X	-30	ě.	
								C\$CL-41
	INTEGRAL ATTACHMENTS (FIG NO B	- 2G-12						
303960	SG-10-TR12	C-C	PY	NDEP 6.2 R4	×			PT PERFORMED IN LIEU OF MT DUE TO
	TRUNNION B	C3.10						LIMITED ACCESS.

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1

INSERVICE INSPECTION SUMMARY - 1REO4 (WELDS)

FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)

CLASS 2 COMPLETED COMPONENTS

PAGE: 18

EXCESS LETDOWN HEAT EXCHANGER

		ASME			0	G	T	
		SEC. XI			R	£	θ	
SUMMARY EXAMIN	ATION AREA	CATGY	EXAM		£	0	E	REMARKS
NUMBER IDENT	FICATION	ITEM NO	METHOD	PROCEDURE	¢	M	R	**CALIBRATION BLOCK**
		***			100	360		*************

CIRCUMFERENTIAL WELDS (FIG NO B-ELDX-1)

308300	CSAHEL-1A-S1	C-A	UTOH	UT1-004 P^		\times	X	USED UT35 TO ENSURE SOUND BEAM
	(HEAD) SHELL TO FLANGE	C1.20	U145	UT1-022 RD	X	-	4	IMPINGEMENT ON THE INSIDE SURFACE. 3
			UT60		×			UTO CODE ALLOWABLE INDICATIONS. THESE
			UT457		×	*		SAME INDICATIONS WERE SEEN DURING PS1
			UT351		Х	-	-	(1986) AND HAVE NOT CHANGED. LIMITED UT
								DUE TO HEAD CONFIGURATION AND PROXIMITY
								OF FLANGE BOLTING.

\$\$-67

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

PAGE: 19

AUXILIA	RY FEEDWATER SYSTEM							
					N		0	
		ASME				G		
		SEC XI					*	
	- Annual Control of the Control of t	CATGY		DODDEN DE				REMARKS
		1128 80	METHOD					**CALIBRATION BLOCK**
	B-AF-1008-GA2[C] (FIG NO B-AF-	3)						
351720	11	C-F-2	MT	NDEP 7.1 R3	×			
		C5.51	UT45	UT1-002 R1		Х		
								CS-Z
351790	14PL1-14PL8	C-C	MT TH	NDEP 7.1 R3	Х		*	
	PIPE LUGS	C3.20						
		Es						
	B-AF-1010-GAZIC] (FIG NO B-AF-	22						
353330	19911-19918	r-c	MT	NDEP 7.1 R3	×			
		C3.20						
353470	26PL1-26PL8	C-C	.HT	NDEP 7.1 R3	Х			
	PIPE LUGS	C3.20						
353520				NDEP 7.1 R3				
	PIPE TO REDUCER	C5.51	U145	UTI-002 R1		Ä		
								CS-2
	8-AF-1010-GA2[G] (FIG NO B-AF-	63						
	<u> </u>							
354040	2	C-F-2	MT	WDEP 7.1 R3	X			
	PIPE TO REDUCER	C5.51	U145	U11-002 R1		Х	-	
								CS-2
	6-AF-1010-GAZ (FIG NO B-AF-5,6	2						
359660	2				Ж			
	PIPE TO ELBOW	C5.51	U145	UT1-002 R1	-	X	-	

PAGE: 20

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1 INSERVICE INSPECTION SUMMARY - TRED4 (WELDS)

FIRST INTERVAL, SECOND PERIOD, FIRST DUTAGE (92RF)

CLASS 2 COMPLETED COMPONENTS

DATE: 03/22/93

REVISION: 0

TELUWAT	IK SISIER							
		a mare						
		ASME				G		
		SEC. XI				E		
	EXAMINATION AREA	CATGY					£	
	IDENTIFICATION	ITEM NO		PROCEDURE			R	
			********	*****		*		************************
	18-FW-1018-GAZ (FIG NO B-FW-7,	8)						
				ADED 2 5 62				
502700		C-F-2						
	VALVE TO PIPE	C5.51	U140	UT1-002 R1				
								CS-3
								7743737
503100	23	C-F-2	MT	NDEP 7.1 R3	¥		×	
303190	ELBOW TO PIPE	C5.51		U11-002 R1				
	1000 10 1110	-	301300	W/1 1000 101				
								CS-3
	18-FW-1030-AAZ (FIG NO B-FW-3)							
504220	1	C-F-2	MT	NDEP 7.1 R3	X		*	32 - AUGMENTED ISI - BEZ.
,	ELBOW TO PIPE	C5.51	U145	UT1-002 R1	X			
								CS-4
504230	1PL1-1LPL8	D-C	MT	NDEP 7.1 R3	X		×	
	PIPE LUGS	C3.20						
								C5-33
504240	2	C-F-2	118	NDEP 7.1 R3	X	196	*	92 - AUGMENTED ISI - BEZ.
	PIPE TO PIPE	C5_51	UT45	UT1-002 R1		Х	÷	
								CS-4
								92 - AUGMENTED ISI - BEZ.
	PIPE TO PIPE	C5.51	UT45	UT1-002 R1	Х	- 100		
								CS-4
***			NAME OF THE OWNER, WHEN PERSON AND THE OWNER, WH					
	4							92 - AUGMENTED ISI - BEZ.
A	PIPE TO VALVE	05.51	U145	UT1-002 R1	K		100	
9								

CS-4

PAGE: 21

DATE: 03/22/93 REVISION: D

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

FEEDWATER SYSTEM

N 0 0 G T ASME SEC. XI REH

E O E REMARKS SUMMARY EXAMINATION AREA CATGY EXAM

C M R **CALIBRATION BLOCK** ITEM NO METHOD PROCEDURE NUMBER IDENTIFICATION

16-FW-1018-GA2 (FIG NO B-FW-8)

C-F-2 MT NDEP 7.1 R3 X - - 92 - THIS WELD SELECTED AS AN AUGMENTED 507640 4

C5.51 UT45 UT1-002 R1 X - - 151 FOR 1EB 79-13. PIPE TO WOZZLE

U160 - X -U1451 X -

C5-15

LONGITUDINAL WELD

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

			CLASS	S COMPLETED COMPON	NENTS			
MAIN ST	EAM SYSTEM							
		ASME				G		
		SEC. XI				E.		
SHMMARY	EXAMINATION AREA	CATGY						REMARKS
	IDENTIFICATION			PROCEDURE				**CALIBRATION BLOCK**
	***************************************		****		ko se	×		
	30-MS-1004-GA2 (FIG NO B-	MS-7,8)						
558680	22LU	C-F-2	MT	NDEP 7.1 R3	X			92 - EXAMINED 100% OF WELD LENGTH.
	LONGITUDINAL WELD	C5.52	U145	UT1-002 R1	X			AUGMENTED IST - BEZ.
								CS-5
558700	PIPE TO PENETRATION	C-F-2 C5.51		NDEP 7.1 R3				92 - AUGMENTED 1SI - BEZ.
	FIFE TO PERCENTION							
								CS-5
558760	23	C-F-2	MT	NDEP 7.1 R3	×			92 - AUGMENTED 1S1 - BEZ.
	PIPE TO PIPE	C5.51	UT45	UT1-002 R1	*	×		
								CS-5
558780			MT					92 - EXAMINED 100% OF WELD LENGTH.
	LONGITUDINAL WELD	C5.52	U145	UT1-002 R1	X		*	AUGMENTED ISI - BEZ.
								CS-33
558800	2410	C-1-2	MT	NDEP 7.1 R3	X			92 - EXAMINED 100% OF WELD LENGTH.
	LONGITUDINAL WELD	C5.52	U145	UT1-002 R1	X			AUGMENTED 151 - BEZ,
								CS-33
558820	24	C-F-2	MT	NDEP 7.1 R3	×			92 - AUGMENTED 1SI - BEZ.
	PIPE TO PIPE			U11-002 R1				
								CS-33
558840	24LD	C-F-2	MT	NDEP 7.1 R3	X	+	4	92 - EXAMINED 100% OF WELD LENGTH.

X - AUGMENTED ISI - BEZ.

UT1-002 R1

C5.52 U145

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

PAGE: 23

MAIN STEAM SYSTEM

MAIN ST	EAM STSTEM							
		ASME				G		
						E		
PURMINEN	TVANTUSTON AREA	SEC. XI	TYKH			0		REM^RKS
	EXAMINATION AREA	CATGY ITEM NO		PROCEDURE		Н		**CALIBRATION BLOCK**
NUMBER	IDENTIFICATION							CALIDRATION DEGLA
	30-MS-1004-GAZ (FIG NO B-MS-7,	Ris						
	DO NO 1004 GAE CITO NO B NO 1.	200						
558842	26201	C-F-2	MT	NDEP 7.1 R3	×			92 - EXAMINED 100% OF WELD LENGTH.
	LONGITUDINAL WELD		U145	UT1-002 R1	X			AUGMENTED 1ST - BEZ.
								CS-35
558844	24A	C-F-2	MT	NDEP 7.1 R3	Х	+	100	92 - AUGMENTED 1S1 - BEZ.
	PIPE TO PIPE	C5.51	UT45	UT1-002 R1	Х	100		
								CS-35
558846	24ALD	C-F-2	MT					92 - EXAMINED 100% OF WELD LENGTH.
	LONGITUDINAL WELD	C5.52	U145	UT1-002 R1	×	* :		AUGMENTED ISI - BEZ.
,								**CS-35**
558848	2/01/1	C-F-2	MT	NDEP 7.1 R3	V			92 - EXAMINED 100% OF WELD LENGTH.
330045	LONGITUDINAL WELD	C5.52	UT45					AUGMENTED ISI - BEZ.
	LUNGITUDIANE WELD	22.25	201407	DIT DUL KI				NOGICATED 151 SEE1
								ES-35
558850	248	C-F-2	RIT.	NDEP 7.1 R3	K	-	4	92 - AUGMENTED ISI - BEZ.
	PIPE TO PIPE	C5.51	UT45	UT1-002 R1	Ж		'n.	
								CS-35
558852								92 - EXAMINED 100% OF WELD LENGTH.
	LONGITUDINAL WELD	C5.52	UT45	UT1-002 R1	×			AUGMENTED ISI - BEZ.
								CS-35
	34 NC 300/ C42 4515 NO D 40 D							
	16-MS-1004-GAZ (FIG NO B-MS-8)							
561080		0-5-2	MT	NDED 7 1 P3	N	100		92 - AUGMENTED ISI - BEZ.
JOINGU				UTI-002 R1				
6	LANDOUR TO THE	67171	2172	DIT WALL THE	364			
9								**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

PAGE: 24

MAIN STEAM SYSTEM

ASME D G T
SEC. XI R E H

SUMMARY EXAMINATION AREA CATGY EXAM E O E REMARKS

NUMBER IDENTIFICATION 1TEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

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

CS-15

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

CS-14

8-MS-1103-GA2 (FIG NO 8-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-GAZ(A) (FIG NO B-MS-8)

CS-75

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

CS-75

DATE: 03/22/93 REVISION: 0

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1 INSERVICE INSPECTION SUMMARY - TREO4 (WELDS) FIRST INTERVAL, SECOND PERIOD, FIRST DUTAGE (92RF) CLASS 2 COMPLETED COMPONENTS

RESIDUAL			

					N		O.	
		ASME			0	6	7	
		SEC. XI			R	E	H	
CUMMARY	EXAMINATION AREA	CATGY	EXAM		Ε	0	E	REMARKS
	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	2	М	R	**CALIBRATION BLOCK**
	******************	******	****					
	8-RH-1111-BB2 (FIG NO B-RH-7)							
614620	3	C-F-1	PT	NDEP 6.2 R4	Х	i.		
	ELBOW TO PIPE	C5.11	UT45	UT1-001 R1		Х		
			U1451		Х	4	У.	
								SS-11
247220		C-F-1	PT	NDEP 6.2 R4	×			
614660		C5.11	U145	UT1-001 R1		×		
	PIPE TO VALVE	107 x 1-1	U1451	DEL VOI KI		.0		
			U1421		-			**SS-11**

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

PAGE: 26

SAFETY INJECTION SYSTEM

DATELL	INJECTION STATEM				*			
		ASME				G		
AL GARAGE MAN		SEC. XI	rom					BENERVE
	EXAMINATION AREA	CATGY		DDDCCDUBE		0		REMARKS
NUMBER	IDENTIFICATION	ITEM NO	MERROD	PROCEDURE		m	K	**CALIBRATION BLOCK**
	16-SI-1201-UBZ (FIG NO B-SI-4)							
	TO DE LEGI DUE ALTO NO DE DE SE							
705280	5	C-F-1	PT	NDEP 6.2 R4	Х			92 - LIMITED UT DUE TO VALVE
	VALVE TO PIPE	C5.11	UT45	UT1-012 R0				CONFIGURATION.
			UT451				46	
								SS-30
705300	SLD	C-F-1	PT	NDEP 6.2 R4	Х		100	92 - EXAMINED 2.51 AT THE INTERSECTING
	LONGITUDINAL WELD	C5.12	UT45	UT1-012 R0	Х	-	91	CIRC. WELD.
			UT45T		Х	4	-	
								58-30
705460			PT	NDEP 6.2 R4	X	- 10	٠.	
	10-1N. BRANCH CONNECTION	C5.41						
)								
TARKAN	470.4 0			single 2 to 50	1			
705810	14PL1-8		P1	NDEP 6.2 R4	×			
	PIPE LUGS	C3.20						
	12-S1-1201-UB2 (FIG NO 8-S1-4)							
711720	ZLU	C-F-1	PT	NDEP 6.2 R4	Х	4	100	92 - EXAMINED 2.5T AT THE INTERSECTING
	LONGITUDINAL WELD	C5.12	UTOL		Х			
			UT45	UT1-012 R0	х			
			UT45T		Ж		4	
								SS-13
711740	2	C-F-1	PT	NDEP 6.2 R4	X		-	
	PIPE TO ELBOW	C5.11	UTOL	UT1-004 R0	X	4	+	
			U145	U11-012 R0	Х		100	
			U1451		Х		100	
								SS-13
711760		C-F-1	PT	NDEP 6.2 R4	×	100	*	
	LONGITUDINAL WELD	C5.12	UTOL	UT1-004 R0		×		CIRC, WELD.
			UT45	UT1-012 RD		*		
			UT451		X		100	
								\$\$-13

PAGE: 27

DATE: 03/22/93 REVISION: 0 SOUTH TEYAS PROJECT ELECTRIC GENERATING STATION UNIT 1

IF SERVICE INSPECTION SUMMARY - TREO4 (WELDS)

FIF ST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)

CLASS 2 COMPLETED COMPONENTS

**	ETY	10 and 15	F- party	STATE OF THE PARTY.	25-21	120.10	#5 A.E.
30/E) N	84 5 75	11/19/21	6-211	2 11.384	16.7	76.7	21.00

SATETT	INSECTION DISICO				N		D	
		ASME						
		SEC. KI				E		
DIMMADY	EXAMINATION AREA	CATGY	EXAM			0		REMARKS
	1DENTIFICATION	ITEM NO		PROCEDURE				**CALIBRATION BLOCK**
NUMBER	IDENTIFICATION	******						******************************
	10-S1-1201-UB2 (FIG NO B-S1-4)							
718220	7LU	C-F-1	PT	NDEP 6.2 R4	X			92 - AUGMENTED ISI - 1EB 79-17.
	LONGITUDINAL WELD		UTDL	UT1-004 RO	Х			EXAMINED 2.51 AT THE INTERSECTING CIRC.
			UT45	UT1-012 R0	Х		36.1	WELD.
			U1451		X	a.	×.	
								SS-87
718260	7	D-F-1	PT	NOEP 6.2 R4				92 - AUGMENTED ISI - IEB 79-17.
	ELBOW TO PIPE	No.	UTOL	UT1-004 RD		*		
			UT45	UT1-012 R0				
			UT451		X	19.	^	**55-87**
								55-8/
718280	71.0	C-F-1	PT	NDEP 6.2 R4	×		- 11	92 - AUGMENTED 151 - 1EB 79-17.
9	LONGITUDINAL WELD		UTOL	UT1-004 R0				EXAMINED 2.5T AT THE INTERSECTING CIRC.
	AND THE PERSON OF THE PERSON O		UT45	UT1-012 RO				
			UT45T		X	-		
								SS-87
	6-51-1110-BB2 (FIG NO B-S1-14)							
735160		C-F-1	PT	NDEP 6.2 R4		-		
	VALVE TO PIPE	C5.11	UT45	UT1-001 R1		К		
			UT451		×	190		
								55-8
	6-S1-1206-DB2 (FIG NO 8-S1-15,	163						
	0 01 1500 POE 4110 NO D 21 12.	LIME.						
739320	24	C-F-1	PT	NDEP 6.2 R4	×	100		
	PENETRATION TO PIPE	C5.11	UT45	UT1-005 R1	4	K	-	
			U1451		Х	100	4	
								SS-23
				one a serie				
739340				NDEP 6.2 R4		100		
	PIPE TO ELBOW	C5.91		UT1-005 R1		Ж		
			UT45T		.8	*		**\$\$-23**

PAGE: 28

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

SAFETY		

SUMMARY	EXAMINATION AREA IDENTIFICATION	ASME SEC. KI CATGY ITEM NO	EXAM METHOD	PROCEDURE	N O R E C	GEOM	O T H E R	REMARKS **CALIBRATION BLOCK**
	6-51-1206-DB2 (FIG NO B-51-15	162						
739360	26 ELBOW TO PIPE	C-F-1 C5.11	PT UT45 UT45T	NDEP 6.2 R4 UTI-005 R1	X X			**SS-23**
739380	27 PIPE TO VALVE	C-F-1 C5.11	PT UT45 UT451	NDEP 6.2 R4 UT1-005 R1		×	-	**SS-23**
739400	28 VALVE TO PIPE	C-F-1 C5.11	P1 U145 U1451	NDEP 6.2 R4 UTI-005 R1	X X X			

55-23

APPENDIX 2-B
PERSONNEL/EQUIPMENT/MATERIALS

APPENDIX 2-B

PERSONNEL QUALIFICATIONS

Name	Company	UT	MT	PT	VT
Groanvelt, H. L.	GTS	П	11	П	II
Mayer, K. J.	GTS	II	II	II	II
Severtson, R. J.	GTS	II	*	II	
Trotter, E. J.	GTS	П	II II	II	III
Pennanen, A. R.	NES	III	III	III	II
Busby, R. S.	HL&P		*		H
Halley, J. F.	HL&P	11	11	11	11
Hubbard, S. K.	HL&P	III	III	III	III
Silva, P.	HL&P			II	
Spiess, L. D.	HL&P	II	П	11	II
Stuhler, D. A.	HL&P	11	II	II	II
Suhler, C. D.	HL&P	II	H	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

EQUIPMENT	SERIAL NO.
MT Yoke, Magnaflux, Y-6 MT Yoke, Electro-Spect, ES-X	Y6-01, -05, -06 ESX-05, -10
Krautkramer Branson, USD-7D Krautkramer Branson, USK-7D Krautkramer Branson, USK-7D Krautkramer Branson, USK-7D Krautkramer Branson, USK-7D	100-01303-001 100-01328-002 100-01328-003 100-01328-004 100-01328-005
UV Meter	100-01312-002
Dry Film Thickness Gage	100-01308-006
TRANSDUCERS	
00535 00540 1-8282 2158-920003-R6/45 2158-92004-R7/45 2158-92004/45 2158-9200-1-R0/45 22633 22646 56526-00579/70 9240-92001-R0/60 9240-92001-R1/60 9240-92001-R2/80 9240-92002-R6/80 B07336 B07339 B12139 B13204 B21228 B-19202SP D13212 D13213 D13214	D1523 D15237 D15238 D16203 D16204 D16205 D16207 DE12550 F14717 G27259 K09800 K09800 K09800 K23811 L03856 L03859 L18549 L20963 ST828 ST833 ST836

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 Ve sel 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

Table of Contents	
STPEGS-1 Summary of Inservice Examination Limitation	Page 2-45
Class 1 Components	
ASME Category B-B Steam Generator	2-48
ASME Category B-D Steam Generator	2-49
ASME Category B-F Piping Reactor Coolant System	2-50
Class 2 Components	
ASME Category C-A Excess Letdown Heat Exchanger	2-51
ASME Category C-F-1 Safety Injection	2-52

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:

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

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

Examples:

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

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

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

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.

1992 TRE04 IST SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

ASME CATEGORY B-B

SYSTEM: STEAM GENERATOR (CLASS I)

CLASS	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION			% CO	VERAGE			
CATGY ITEM NO. EXM RQT	- WELD ID FIGURE - EXAMINATION METHOD	EXAM TYPE		1 DIR ONLY		EFF.	TOTAL	LIMITATION
	SG-1B	U70	-31			69		NO UT FROM THE SUPPORT RING SIDE DUE
9-B	SRI	UT45	11	57	>2	61		TO SUPPORT RING CONFIGURATION.
82.31	FIGURE NO. A-SG-2	UT45T	31	0	69	-69		LIMITED UT FROM HEAD SIDE DUE TO
VOL		UT60	- 11	77	12	-51		PROXIMITY OF INLET/OUTLET NOZZLE
	HEAD-TO-SUPPORT RING	UT607	- 31	0	69	69	64	WELDS.
	UT							
	SG-1B	UTO	3.3	-01	18	67		NO UT FROM THE SUPPORT RING SIDE DUE
i-B	SR2	UT45	9	56	35	63		TO SUPPORT RING CONFIGURATION.
32.40	FIGURE NO. A-SG-2	UT45T	33	10	67	67		LIMITED UT FROM THE TUBE PLATE SIDE
VCL		UT60	8	74	18	55		DUE TO PROXIMITY OF WELDED PLATES
	SPPT RING-TO-TUBE PLATE	UT-60T	33	0	67	67	64	
	UT					1 - 1		

1992 TRE04 IS: SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

ASME CATEGORY B-D

SYSTEM: STEAM GENERATOR (CLASS I)

CLASS	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION		% COVERAGE					
CATGY ITEM NO. EXM RQT	- WELD ID FIGURE - EXAMINATION METHOD	EXAM TYPE	NONE	I DIR ONLY		EFF.	TOTAL	LIMITATION
1	SG-1B	UTO	32	* 1		68		LIMITED UT FROM THE HEAD SIDE DUE
B-D	IN	UT45	12	57	31	60		TO PROXIMITY OF VIBRATION SENSOR
B3:130	FIGURE NO. A-SG-2	UT45T	32	10	68	68		INSTRUMENTATION BOX. LIMITED UT
vol		U760	15	67	17	SL		FROM THE NOZZLE SIDE DUE TO NOZZLE
	NOZZLE-TO-SHELL	177607	3.2		68	68		CON, IGURATION
							63	
	Let .							
	SG-1B	UTO	32	9	-	- 68		LIMITED UT FROM THE HEAD SIDE DUE
-D	ON	UT45	3.2	57	31	160		TO PROXIMITY OF VIBRATION SENSOR
83.130	FIGURE NO. A-SG-2	UT45T	32	0	68	68		INSTRUMENTATION BOX. LIMITED UT
VOL		UT60	17	67	16	50		FROM THE NOZZLE SIDE DUE TO NOZZLE
	SHELL-TO-NOZZLE	UT601	32	. 0	-68	68		CONFIGURATION
							63	
	UT							

1992 1RE04 IS1 SOUTH TEXAS PROJECT ELECTRIC GENES ATING STATION, UNIT I

ASME CATEGORY B-F

SYSTEM: REACTOR COOLANT - MAIN LOOPS (CLASS I FIPING)

CLASS	- LINE NO./SUBASSEMBLY - WELD IDENTIFICATION		% COVERAGE					
CATGY ITEM NO. EXM RQT	- WELD ID FIGURE - EXAMINATION METHOD	EXAM TYPE	NON	1 DIR ONLY		EFF.	TOTAL	LIMITATION
B-F B130 VOL/SURF	31-RC-1202 i FIGURE NO. A-RC-2 NOZZLE-TO-ELBOW UT/PT	UT45/60 UT45T	10		50 90	75 90	83	LIMITED UT FROM BOTH SIDES AND ON THE WELD DUE TO WELD CONFIGURATION AND SIZE OF THE SEARCH UNIT.
9-F B5-130 VOL/SURF	29-RC-1201 5 FIGURE NO. A-RC-2	UT45/60 UT45T	0		37 91	69		LIMITED UT FROM BOTH SIDES AND ON THE WELD DUE TO WELD CONFIGURATION AND SIZE OF THE SEARCH UNIT.

1992 1RE04 ISI

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

ASM[®] CATEGORY C-A

SYSTEM: SAFETY 'NJECTION (CLASS 2)

CLASS	- LINE NO /SUBASSEMBLY - WELD IDENTIFICATION		* COVERAGE					
CATGY ITEM NO. EXM RQT	- WELD ID FIGURE - EXAMINATION METHOD	EXAM TYPE	NONE	1 DIR ONLY		EFF. COV.	TOTAL	LIMITATION
2	CSAHEL-1A	UTOW	31	×		69		LIMITED UT45 AND UT60 FROM THE HEAD
C-A	S1	UT45	0	6	945	97		SIDE DUE TO HEAD CONFIGURATION
C1.20	FIGURE NO. B-ELDX-1	UT60	0	. 6	94	97		NO UT45/UT60/UT0/UT45T/UT35T ON THE
VOL		U345T	31	0	59	69		FLANGE SIDE DUE TO PROXIMITY OF
	(HEAD)SHELL-TO-FLANGE	UTBST	31	- 0	69	69		FLANGE BOLTING.
							80	
	UT	-						

1992 1RE04 IS1
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNIT 1

ASME CATEGORY C-F-1

SYSTEM: SAFETY INJECTION (CLASS 2)

CLASS	- LINE NO /SUBASSEMBLY - WELD IDENTIFICATION			# CO	VERAGE			
ITEM NO.	- WELD ID FIGURE - EXAMINATION METHOD	EXAM TYPE	NONE	I DIR ONLY	7	EFF.	TOTAL	LIMITATION
2	16-51-1201	UT45	22	17	61	70		LIMITED UT ON THE VALVE SIDE
C-F-1		UT45T			100	100		DUE TO VALVE CONFIGURATION.
CS.11	FIGURE NO. B-SI-4						8.5	
VOL/SURF			1					
	VALVE-TO-PIPE							
	UT/PT	PT	0	(A)		-	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 Excely R. L. Beverly

Date 3/25/13

Factory Mutual by System

B. R. Russell, ANII

Date 3-24-93

Date 3-24-19 93

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 1993 Signed Houston Lighting & Power Co. By Af Surely Owner R. L. Beyerly
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. Factory Mutual System Factory Mutual System Tex 826
Inspector's Signature National Board, State, Province, and Endorsements
B. R. Russell

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

- 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	ASME	COMPONENT		EXAM	
CATGY	ITEM	or SYSTEM	IDENTIFICATION NO.	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
BF	B5.40	PRZ	PRZ-1-N4B-SE	UTPT	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-IMB	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	UTPT	PIPING BUTT WELD
B-F	B5.130	RC	29-RC-1201-NSS-5	UTPT	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	ULPT	PIPING BUTT WELD
B-J	B9.11	RC	16-RC-1412-NSS-3	ULPT	PIPING BUTT WELD
B-J	B9.11	RC	16-RC-1412-NSS-7	UTPT	PIPING BUTT WELD
	B9.11	RC	16-RC-1412-NSS-8	UT.PT	PIPING BUTT WELD
B-J		RC	16-RC-1412-NSS-9	UTPT	PIPING BUTT WELD
B-J B-J	B9.11	RC	12-RC-1125-BB1-2	UT,PT	PIPING BUTT WELD
B-J		RC	12-RC-1212-BB1-8	UTPT	PIPING BUTT WELD
B-J	B9.11 B9.11	RC	12-RC-1212-BB1-6	UTPT	PIPING BUTT WELD
		RC	12-RC-1221-BB1-6	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-J	B9.11			VI-I	FLANGE BOLTING (BASELINE)
B-G-2	B7.50	RC	6-RC-1004-NSS-7FB	UTPT	PIPING BUTT WELD
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		FLANGE BOLTING (BASELINE)
B-G-2	B7.50	RC	6-RC-1009-NSS-9FB	VT-1	
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. I

B. R. Russell, ANII

1016 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	ASME	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-S1-1218-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-S1-1208-BB1-4	UT,PT	PIPING BUTT WELD

HL&P by Box Date 5/23/93

Factory Mutual by System

B. R. Russell, ANII

Date 3-24-93

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

	As required by the Provision	s of the ASME Code Rule	S
1. Owner Houston Lip	ghting & Power Company; Ele (Name and Add	ectric Tower; P.O. Box 1700 ress of Owner)); Houston, Texas 77001
2. Plant South Texas	Project Electric Generating S (Name and Ad	tation; P.O. Box 289; Wads dress of Plant)	sworth, Texas 77483
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	V.A.
7. Components Inspect		(IWC) Items - Welds Proj Identification Numbers)	gram
Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Steam Generator 1D	Westinghouse (M)	21343	W18694
Excess Letdown Heat Exchanger	Joseph Oat Corp (M)	2312-3A	988
Class 2 Piping	Ebasco (I)	N.A.	N.A.

Manufacturer or Installer	or Installer Serial No.	National Board No.
Westinghouse (M)	21343	W18694
Joseph Oat Corp (M)	2312-3A	988
Ebasco (1)	N.A.	N.A.
	or Installer Westinghouse (M) Joseph Oat Corp (M)	Manufacturer or Installer Serial No. Westinghouse (M) 21343 Joseph Oat Corp (M) 2312-3A

HL&P by R. L. Beverly Date 3/23/93 Factory Mutual by 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 84 Swelly Owner R. L. Beverly
L, the undersigned, holding a valid commission issued by the National Board of L viler 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 B-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 persuance injury or property damage or a loss of any kind arising from or connected with this inspection. Factory Mutual System
I, the undersigned, holding a valid commission issued by the National Board of a lifer 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 B-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 persuance injury or property damage or a loss of any kind arising from or connected with this inspection.

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)
- 4. Owner and Certificate of Authorization (if required) N.A. 3. Plant Unit 1
- 5. Commercial Service Date 08/25/88 6. National Board Number for Unit N.A.

ASME	ASME	COMPONENT		EXAM	
CATGY	LLEW	or SYSTEM	IDENTIFICATION NO.	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-SI	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	UTMT	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	UTMT	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	UTMT	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	UTMT	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 BUTTALONG 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	ULMT	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	UTMT	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	UTMT	PIPING BUTT WELD
CF2	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-S1-1201-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	UTPT	PIPING BUTTA ONG. WELDS
C-F-I	C5.11	SI	6-SI-1110-BB2-1	UT.PT	PIPING BUTT WELD
C-F-1	C5.11	SI	6-S1-1206-DB2-24	UT,PT	PIPING BUTT WELD
C-F-1	C5.11	SI	6-SI-1206-DB2-25	UTPT	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	UTPT	PIPING BUTT WELD
C-F-I	C5.11	SI	6-SI-1206-DB2-28	UT,PT	PIPING BUTT WELD
0.4.4	August 1	-	W. O. L. T. P. S.	17 8 17 2	A AL STAND SERVE A STREET

HL&P by R. L. Beverly Date 3/23/93 Factory Mutual by B. System

B. R. Russell, ANII

ur_ Date 3-24-93

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:

- 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:

	Piping	Equipment
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:

	Piping	Equipment
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:

	Piping	Equipment
Auxiliary Feedwater (AF)	6	0
Component Cooling (CC)	29	1 - 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:

	1RE04	Cumulative (1st Interval)
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

Component ID	Condition	SR No.	Disposition
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-I 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 - TREO4 (SUPPORTS)
FIRST INTERVAL, SECOND PERIOD, FIRST DUTAGE (92RF)
CLASS 1 COMPLETED COMPONENTS

PAGE: 1

CHEMICAL & VOLUME CONTROL 1

SUMMARY EXAMINATION AREA

ASME O G T SEC. XI R E H

CATGY EXAM E D E REMARKS

NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

2-CV-1121-BB1-B1A1

100500 CV-1121-HS5005 PIPING V1-3 NDEP 9.2 RO X - -

GUIDE

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: 2

REACTOR COOLANT 1

NUMBER	EXAMINATION AREA IDENTIFICATION 6-RC-1003-BB1-A	ASME SEC. XI CATGY ITEM NO		PROCEDURE	REC	G E D M -	H E R	REMARKS **CALIBRATIUN BLOCK**
105600	RC-1003-RR07 RR	PIPING	V1-3	NDEP 9.2 RO	×			
107100	4-RC-1123-BB1-C RC-1123-RR16 RR	PIPING	V1-3	NDEP 9.2 RD	×			
107500	4-RC-1123-BB1-E RC-1123-RR06 RR	PIPING	VT-3	NDEP 9.2 RO	×			
111700	2-RC-1419-BB1-A1-A1 RC-1419-HS5006 SH-V	PIPING		NDEP 9.2 RO				92 - EXAMINED WHEN FILLED.
111800	Z-RC-1419-BB1-B-A1 RC-1419-HS5001 SH-V	PIPING		NDEP 9.2 RO				92 - EXAMINED WHEN FILLED.

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

PAGE: 3

RESIDUAL HEAT REMOVAL 1

N D DET ASME SEC. XI REH

SUMMARY EXAMINATION AREA CATGY EXAM E O E REMARKS

ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK** NUMBER IDENTIFICATION

10-RH-120P ::1-A

PIPING VT-3 NDEP P.2 RD X - - 92 - EXAMINED WHEN FILLED. 114200 RH-1208-HL5005

X - -

- VT-4 SH-V

10-RH-1208-BB1-B

PIPING VT-3 NDEP 9.2 RD X - -114400 RH-1208-RR01

RR

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: 4

SAFETY INJECTION 1

N D ASME OGT SEC. XI REH

SUMMARY EXAMINATION AREA CATGY EXAM E D E REMARKS

NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

8-51-1208-BB1-B

PIPING VI-3 NDEP 9.2 RO X - -116000 SI-1208-HL5001 RR

Walter V	eren -	M7.	200	P1/26
DA	Œ:	1127	22/	2.3
D-D1	UISI	DW .		UP3

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1
INSERVICE INSPECTION SUMMARY - TREO4 (SUPPORTS)
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)
CLASS 1 COMPLETED COMPONENTS

						- 4
REA	27.50	ND I	PYTO	755 B	ALC: T	- 75
カエカ	Sec. 2.26	20), U	No tare	いんわ	MER II.	

SUMMARY	EXAMINATION AREA	ASME SEC. XI CATGY	EXAM		N O R E	G E O	O T H E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
	1R131NPP101B							
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	V1-3	NDEP 9.2 RD	×			92 - REACTOR COOLANT PUMP 18 - TIE ROD LOCATED IMMEDIATELY CLOCKWISE FROM RPR18.
121100	RPR3B RC PUMP RODS	EQUIP	VI-3	NDEP 9.2 RD	K			92 - REACTOR COOLANT PUMP 18 - TIE ROD LOCATED IMMEDIATELY CLOCKWISE FROM RPR28.

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:

AUXILIARY FEEDWATER 2

					N		U	
		ASME			0	G	7	
		SEC. XI			R	Ε	8	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	H	R	**CALIBRATION BLOCK**
	*********	******	******	***********			*	
	8-AF-1012-GAZ-G							
205800	AF-1012-HL5021 RR	PIPING	VT-3	NDEP 9.2 RD	×			

4-AF-1012-GA2-L

208500 AF-1012-HL5036 PIPING VT-3 NDEP 9.2 RO X -

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1
INSERVICE INSPECTION SUMMARY - TREO4 (SUPPORTS)
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)
CLASS 2 COMPLETED COMPONENTS

PAGE:

7

CONTAINMENT SPRAY 2

214800 CS-1302-SH10

SH-V

	EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE	R E	E	REMARKS **CALIBRATION BLOCK**
214000	8-CS-1302-PB2-B CS-1302-HL5002 RR	PIPING	V1-3	NDEP 9.2 RD	×		
214400	6-CS-1302-PB2-D CS-1302-RR05 RR	PIPING	VT-3	NDEP 9.2 RD	*		
	B-CS-1302-PB2-K						

PIPING VI-3

- VI-4

NDEP 9.2 RO X - - 92 - EXAMINED WHEN FILLED.

X - -

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: B

FEED WATER 2

N D ASME 0 0 1 SEC. XI RER SUMMARY EXAMINATION AREA CATGY EXAM E O E REMARKS

ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK** NUMBER IDENTIFICATION

18-FW-1016-GA2-C

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

18-FW-1016-GA2-K

219501 FW-1016-SH01 PIPING VT-3 NDEP 9.2 RD X - - 92 - EXAMINED WHEN FILLED.

- VT-4 SH-V K - -

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

PAGE: 9

MAIN STEAM 2

ASME O G T SEC. XI R E H

CATGY EXAM E O E REMARKS

NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

30-MS-1003-GA2-E

SUMMARY EXAMINATION AREA

225200 MS-1003-HL5005 PIPING VT-3 NDEP 9.2 RO X - -

GUIDE

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

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RESIDI	2502	TEN	5	E PIL	化药压	- 50

RESIDUA	L HEAT REMOVAL 2							
		ASME				G		
		SEC. KI				E		
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Ε	0	E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**
*****			*****	*********	*			
	12-RH-1104-KBZ-A							
228700	RH-1104-RR01	PIPING	V1-3	NDEP 9.2 RD	X		*	
	RR	*						
	8-RH-1103-KB2-B							
		and the same						ON PRODUCES WITH ELLIPS
230500	RH-1103-SH08			NDEP Y.Z KU				92 - EXAMINED WHEN FILLED.
	SH-V		V1-4		X	-	ď.	
	B-RH-1103-KB2-CA							
-		878787	100.00	WALL D 2 DO				
250900	RH-1103-RR07	PIPING	VI-3	NDEP 9.2 RD	Χ.	٧,	÷.	
	GUIDE	. S. 11 F. 11						
	E NU ESSE DES E							
	B-RH-1104-KB2-B							
224722	PU 450/ PEDS	hinten	V1-3	NDEP 9.2 RD		7		
231600	RH-1104-RR02	FIFING	10.2	NUET Y.E KU	Х			
	RR							
	8-RH-1204-KB2-D							
	O RH LOW RDE W							
23/800	RH-1204-RR07	PIDING	V7-3	NDEP 9_2 R0	X	1		
2,24000	RR	- 21340	****	NULL FOR NO	- 1			
	N.A.							
	8-RH-1205-KB2-A							
	S. Till III S. Til							
235800	RH-1205-HL5013	PIPING	V1-3	KDEP 9.2 RO	×		*	92 - EXAMINED WHEN FILLED. SPRING
	SH-V (2)		V1-4					HANGER SETTINGS WERE FOUND OUT OF
	737							CURRENT DRAWING TOLERANCES. SR# 158442
								WAS ISSUED. SUPPORT WILL MEET ITS
								FUNCTIONAL REQUIREMENTS AND 15
								ACCEPTABLE FOR CONTINUED SERVICE.
,								

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: 11

RESIDUAL HEAT REMOVAL 2

SUMMARY EXAMINATION AREA

ASME O G T
SEC. KI R E H
CATGY EXAM E O E REMARKS

NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

8-RH-1205-KB2-A

235900 RH-1205-HL5014 PIPING VT-3 NDEP 9.2 RD X - -

RR

8-RH-1205-KB2-DD

236700 RH-1205-HL5008 PIPING VT-3 NDEP 9.2 RD X - -

GUIDE

DATE: 03/22/93 REVISION: 0

RR

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

			CLASS 2	COMPLETED COMPONE	NTS		
SAFETY	INJECTION 2						

		ASME SEC. XI				G W	
CIMMADA	EXAMINATION AREA	CATGY					REMARKS
			METHOD	PROCEDURE			**UALIBRATION BLOCK**
******						*	
	24-\$1-1101-UB2-B						
243000	\$1-1101-HL5018	PIPING	V1-3	NDEP 9.2 RO	×		
	RR						
243100	The second secon		V1-3	NDEP 9.2 RO	Х		92 - ADCITIONAL EXAMINATION PER
	RR						TWF-2430(A).
	24-\$1-1301-UB2-D						
243300	\$1-1101-HL5020 RR	PIPING -	VT-3	NDEP 9.2 RO	Х		92 - ADDITIONAL EXAMINATION PER 1WF-2430(A).
243500	\$1-1101-HL5025 RR	PIPING	VT-3	NDEP 9.2 RO	×		92 - ADDITIONAL EXAMINATION PER IWF-243D(A). NO CREDIT TAKEN FOR SECTION XI COMPLETION PERCENTAGE SINCE THIS SUPPORT WAS EXAMINED IN 1RED3.
	24-SI-1101-UB2-H						
244100	\$1-1101-HL5016 RR	PIPING	V1-3	NDEP 9.2 RO	×		
	16-SI-1101-UB2-NA						
244660	S1-1101-HL5004 RR	PIPING	VT-3	NDEP 9.2 RD	X		92 - ADDITIONAL EXAMINATION PER 1WF-2430(A).
	12-S1-1101-UB2-AB						
248200	S1-1101-HL5013	PIPING	VT-3	NDEP 9.2 RD	X		92 - ADDITIONAL EXAMINATION PER

1WF-2430(A).

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DATE:	03/22	185
DEVIET	mar -	'n

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

10.00	-	KE M	400	A	200	42 - 1704
SRF	便工	F 3	76.3	Edici	EUR	N - Z
20.27						-

SAFETY	INJECTION 2							
		ASME			0	G	T	
		SEC. Xi				E		
	EXAMINATION AREA	CATGY						REMARKS
NUMBER	IDENTIFICATION		METHOD	PROCEDURE				**CALIBRATION BLOCK**
*****	**********	*******	**********	************			*	
	12-S1-1101-UBZ-AB							
248300	\$1-1101-RR26	PIPING	V1-3	NDEP 9.2 RO	X			92 - ADDITIONAL EXAMINATION PER
	RR							IWF-2430(A).
	8-S1-1102-PB2-B							
253300	S1-1102-RR03	PIPING	V1-3	NDEP 9.2 RD	х	in.		
20000	RR							
253400	\$1-1102-RR04	PIPING	V7 - 3	NDEP 9.2 RO	×			
£22400	RR	1.41.454		MULT FIE NO				
)	8-S1-1102-PBZ-D							
257700	S1-1102-RH07	DIDING	07.7	When D 2 ph	W			92 - ADDITIONAL EXAMINATION PER
223700		FIFING	81.3	MUER ATE KO	8		ñ.	TWF-2430(A).
	RR							18(*-2430(B).
	8-SI-1102-PB2-E							
257000	E1.1107. HI FOO!	DIDINO	17.7	NUCL 0 2 DO			v	02 - ADDITIONAL EXAMINATION DED
	S1-110Z-HL5004 RR	PIPING	V1-3	NUEP 9.2 RU				1WF-2430(A). THIS SUPPORT IS ADJACENT (UPSTREAM) TO SI-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.
	8-S1-1105-KB2-B							
254100	S1-1105-HL5004	PIPING		NDEP 9.2 RD				92 - ADDITIONAL EXAMINATION PER
	SH-V	***	VT-4		3			IWF-2430(A). THIS SUPPORT IS ADJACENT
								(DOWNSTREAM) TO SI-1105-RH01.

DATE: 03/22/93	SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1
URIEL US/EE/75	SUUTO TERRO PROVED LELECTRIC DEPENDITION CONTINUE VALLE
REVISION: 0	INSERVICE INSPECTION SUMMARY - TREO4 (SUPPORTS)
	FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)
	CLASS 2 COMPLETED COMPONENTS

A RECOGNICATION OF THE PARTY OF	SATE	12	MI SOL	Sec. 1	- R Sul	77%	ж

SAFEIT	INSECTION Z							
		ASME				6		
		SEC. AX	ences.			E.		Pressure.
	EXAMINATION AREA	CATGY		22.000 p. 10.00		0		REMARKS
NUMBER	IDENTIFICATION	ITEM NO		PROCEDURE	-		R	**CALIBRATION BLOCK**
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	Distribution of the contract o							
	8-S1-1105-KB2-B							
								DO DETTE VEN AND ENTAR BIN
254200	\$1-1105-RH01	PIPING	¥1-3	NDEP 9.2 RD	X	A		92 - COTTER KEY AND SHEAR PIN DEFICIENCIES WERE NOTED. REINSPECTION
	RR							
								AFTER CORRECTIVE ACTION PER SR# 158441
								REVEALED ACCEPTABLE RESULTS.
								DUE TO THE INITIAL CONDITION, ADDITIONAL EXAMINATIONS ARE SCHEDULED IN ACCORDANCE
								WITH INF-2430(A).
								WITH IMF-2430(NJ)
	8-S1-1105-KB2-F							
	D-21-1102-KBC-F							
55/8nn	SI-1105-RR24	piping	1/7.2	When 0 2 ph		J.		92 - ADDITIONAL EXAMINATION PER
2.340110	RR	717180	*1.0	MULT FLE NO				1WF-2430(A).
	N.K.							187 2430387
9								
	8-\$1-1105-KB2-K							
	2 21 (152 552 5							
255600	\$1-1105-RR31	PIPING	VT-3	NDEP 9.2 RD	X		1	
	RR							
	6-S1-1106-DB2-KA							
263800	SJ-1106-RR72	PIPING	VT-3	NDEP 9.2 RD	X	×		
	RR							
	6-S1-1106-DB2-Q							
265300	\$1-1106-HL5009	PIPING	V1-3	NDEP 9.2 RO	X			
	GUIDE							
265400	\$1-1106-RR51	PIPING	VT-3	NDEP 9.2 RD	X	-		
	RR							

DESER	U2/ EE/ 73	2000311 72.70	THE STREET	PARTITION APPRELIATE	2.000	200	urite is	MARK TO THE PERSON OF THE PERS	
REVISI	DN: 0	INSERVI	CE INSPEC	TION SUMMARY - 1R	E04 (S	UPP	ORT:	5)	
Da.		FIRST 18	TERVAL, S	ECOND PERIOD, FIR	ST OUT	AGE.	192	2RF)	
			CLASS	2 COMPLETED COMPO	NENTS				
SAFETY	INJECTION 2								
					N		0		
		ASME			0	G	1		
		SEC. XI			R	E	н		
SUMMARY	EXAMINATION AREA	CATGY	EXAM		5	0	E	REMARKS	
	IDENTIFICATION		METHOD	PROCEDURE	0	M	R	**CALIBRATION BLOCK**	
			*****					**************	
	6-S1-1106-DB2-Q								
265600	S1-1106-RR74	PIPING	VT-3	NDEP 9.2 RO	Х		-		
	RR								
	6-S1-1106-DB2-T								
	*******	441.1		Charles & A.					
200400	\$1-1106-SHB0	PIPING	V1 - 5	NUEP Y.Z KU	Х.	34	7	92 - ADDITIONAL EXAMINATION PER	
	RR							1WF-2430(A).	
	6-S1-1109-DB2-B								
	-								
266700	SI-1109-HL5003	PIPING	V1-3	NDEP 9.2 RO	×				
9	GUIDE	1.40							
	2-51-1139-DB2-B-A1								
	the sales will be a		and the	1					
276900	S1-1139-HF5002	PIPING	V1-3	NDEP 9.2 RO	X		1		

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1

DATE: 03/22/93

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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1

INSERVICE INSPECTION SUMMARY - TREO4 (SUPPORTS)

FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)

CLASS 3 COMPLETED COMPONENTS

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		ASME				0		
		SEC. XI				the second		
SUMMARY	EXAMINATION AREA	CATGY	EXAM		£	0	£	REMARKS
NUMBER	1DENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
*****	***********		******			•	-	
	12-AF-1054-WA3-E							
300100	AF-1054-HL5002	PIPING	VT-3	NDEP 9.2 RD	×			
300100	GUIDE							
	12-AF-1054-WA3-H							
300600	AF-1054-HL5008	PIPING	V1-3	NDEP 9.2 RO	×	4		
	GUIDE							
	4-AF-1011-GA3-NA							
310900	AF-1011-HL5001	PIPING	VT-3	NDEP 9.2 RO	100		X	92 - SWIVEL BALLS ON BOTH ENDS OF THE
	我 見							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.
	3-AF-1086-GA3-A							
315000	AF-1086-HL5001	PIPING	V1-3	NDEP 9.2 RO	X	÷		
	GUIDE							
	3-AF-1086-GA3-D							
315600	AF-1086-HL5004	pipier	UT-T	NDEP 9.2 RO				
313450	GUIDE	-	81.3	NUEP YEE NO				
	1.5-AF-1086-GA3-AA01							
310100	AF-1086-HF5001	515105	97.7	WDED 0 2 00	-			
214100	U-BOLT	PIPING	41.2	NDEP 9.2 RO	×			
De la	- HALL							

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1
INSERVICE INSPECTION SUMMARY - TREO4 (SUPPORTS)
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)
CLASS 3 COMPLETED COMPONENTS

PAGE: 17

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GUIDE

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			ASME				6		
			SEC. XI			R	E	H	
	SUMMARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
	NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	М	R	**CALIBRATION BLOCK**
	*****	***********	 	*****			100		
		24-CC-1101-WA3-D							
	320200	CC-1101-HL5001	PIPING	VT-3	NDEP 9.2 RO	×	w		
	SENEON	GUIDE							
		UUIDE							
		and the season conservation							
		24-CC-1101-WA3-E							
	320400	CC-1101-5H06	PIPING	V1-3	NDEP 9.2 RD	X			
		RR	F						
		24-00-1102-WA3-8							
b.	320600	CC-1102-HL5001	PIPING	VI-3	NDEP 9.2 RO	X			
ø		RR	-						
	220200	CC-1102-RR06	PERMIT	177 - 72	NDEP 9.2 RO				
	acuruu		FIFING	X11-3	RULP Y.Z KU				
		RR							
		24-CC-1102-WA3-F							
	321100	CC-1102-HL5002	PIPING	VT-3	NDEP 9.2 RO	×	+,		
		GUIDE	*						
		24-00-1110-WA3-0							
	321500	CC-1110-HL5002	PIPING	VT-3	NDEP 9.2 RO	v.		- 10	
		RR			100 LT 7 LL 150				
		TO DE 1887							
		20-CC-1103-WA3-D							
A									
F	326200	DC-1103-HL5006	PIPING	V1-3	NDEP 9.2 RO	X	140	:# 1	
		1851 C R 1852 F							

	03/22/93 S ON: 0	INSERVI	CE INSPECTI TERVAL, SEC	LECTRIC GENERATING ON SUMMARY - 1REO4 OND PERIOD, FIRST COMPLETED COMPONEN	(S	UPP	ORTS	
COMPONE	NT COOLING 3							
		ASME				G		
FINANCE	EVANITUATION ADEA	SEC. XI	EVER			E		REMARKS
	EXAMINATION AREA 1DENTIFICATION			piporeni ipe				**CALIBRATION bLOCK**
			******	*****		79.		***************************************
	20-CC-1103-WA3-E							
326300	CC-1103-HL5007	PIPING	VT-3	NDEP 9.2 RD	X			
	GUIDE							
	20-CC-1106-WA3-A							
326600	CC-1106-SH01	PIPING	V1-3	NDEP 9.2 RD	×			92 - EXAMINED WHEN FILLED.
	SH-V	*	V1-4		Ж	v		
	20-CC-1109-WA3-H							
327200	CC-1109-RH02	DIDING	W1-3	NDEP 9.2 RO	v	G		
321200	RR	*		NOUT FILE NO				
	16-CC-1103-WA3-J							
777700	00 4007 0147	DIBING		WATER IN IN INC.				
332390	CC-1103-SH13	PIPING	¥1-3	NDEP 9.2 RO	X			
	16-CC-1105-WA3-G							
333700	CC-1105-RR07		VT-3	NDEP 9.7 RD	Х	*	*	
	RR							

PIPING VI-3 NDEP 9.2 RD K - -

16-CC-1105-WA3-H

RR

334000 CC-1105-RH04

DATE: 03/22/93 SOUTH TEXAS PROJE
REVISION: 0 INSERVICE INSERVAL,
CLAS
COMPONENT COOLING 3

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

ASME SC. XI R E M SEC. XI R E	COMPONE	NT COOLING 3				N.		0	
SUBMARY EXAMINATION AREA CATGY EXAM E D E BENARKS			ASME						
16-CC-1105-MA3-H			SEC. XI			R	E	H	
16-CC-1105-WA3-H 334100 CC-1105-RR03 PIPING VT-3 NDEP 9.2 RD X RR 16-CC-1106-WA3-E 335000 CC-1106-HL5006 PIPING VT-3 NDEP 9.2 RD X RR 355300 CC-1106-RH12 PIPING VT-3 NDEP 9.2 RD X RR 355300 CC-1106-RH12 PIPING VT-3 NDEP 9.2 RD X RR 355400 CC-1106-RH13 PIPING VT-3 NDEP 9.2 RD X RR 355700 CC-1106-HL5014 PIPING VT-3 NDEP 9.2 RD X RR 335800 CC-1106-HL5015 PIPING VT-3 NDEP 9.2 RD X RR 335800 CC-1106-HL5015 PIPING VT-3 NDEP 9.2 RD X RR	SUMMARY								
16-CC-1105-MA3-N 334100 CC-1106-MA3-E 335000 CC-1106-ML5006 RR 16-CC-1106-MA3-G 335500 CC-1106-RH12 PIPING VT-3 MDEP 9.2 RD J RR 335700 CC-1106-RH12 PIPING VT-3 MDEP 9.2 RD X RR 335700 CC-1106-RH13 PIPING VT-3 MDEP 9.2 RD X RR 335700 CC-1106-NL5014 RR 335700 CC-1106-NL5014 RR 335800 CC-1106-NL5015 PIPING VT-3 MDEP 9.2 RD X RR 335800 CC-1106-NL5015 PIPING VT-3 MDEP 9.2 RD X RR 335800 CC-1106-NL5015 PIPING VT-3 MDEP 9.2 RD X RR									
335000 CC-1106-HL5006 PIPING VT-3 MDEP 9.2 RD 335300 CC-1106-HA3-B 335300 CC-1106-RH12 PIPING VT-3 MDEP 9.2 RD X RR 335400 CC-1106-RH3 PIPING VT-3 MDEP 9.2 RD X RR 335700 CC-1106-HL5014 PIPING VT-3 MDEP 9.2 RD X 335800 CC-1106-HL5014 PIPING VT-3 MDEP 9.2 RD X 335800 CC-1106-HL5015 PIPING VT-3 MDEP 9.2 RD X 335800 CC-1106-HL5015 PIPING VT-3 MDEP 9.2 RD X 335800 CC-1106-HL5015 PIPING VT-3 MDEP 9.2 RD X		16-CC-1105-WA3-H							
16-CC-1106-WA3-G 16-CC-1106-WA3-G PIPING VT-3 NDEP 9.2 RD X									
335300 CC-1106-RH12 PIPING VT-3 NDEP 9.2 RO X	335000	RR	PIPING	VI-3	NDEP 9.2 RO				
16-CC-1106-MA3-H 335700 CC-1106-HL5014 PIPING VT-3 NDEP 9.2 RO X RR 335800 CC-1106-HL5015 PIPING VT-3 NDEP 9.2 RO X RR	335300	CC-1106-RH12		V1-3	NDEP 9.2 RD	×			
335700 CC-1106-HL5014 PIPING VT-3 NDEP 9.2 RO X RR	335400		PIPING	V7-3	NDEP 9.2 RO	X			
335800 CC-1106-HL5015 PIPING VT-3 NDEP 9.2 R0 X RR 16-CC-1106-HA3-J		16-CC-1106-WA3-H							
16-CC-1106-HA3-J	335700	The second subsection	PIPING	VT-3	NDEP 9.2 RD	×			
	335800	RR	PIPING	VT-3	NDEP 9.2 RD	X			
		10 00 1100 HK3 2							
336100 CC-1106-HL5001 PIPING VT-3 NOEP 9.2 RO X 92 - EXAMINED WHEN FILLED. SH-V - VT-4 X	336100				NDEP 9.2 RD				92 - EXAMINED WHEN FILLED.

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

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364 (607) (3)	365	100					-55

COMPONE	NT COOLING 3							
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		ASME				G.		
		SEC. XI				E		DEMARKS
	EXAMINATION AREA	CATGY		NAMES INC.		0		REMARKS
NUMBER	IDENTIFICATION			PROCEDURE				
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	16-CC-1109-WA3-C							
336800	CC-1109-RR11	PIPING	V1-3	NDEP 9.2 RO	Х			
	RR							
	10-CC-1114-WA3-D							
350700	CC-1114-RR24	PIPING	V1-3	NDEP 9.2 RO	Х	-		
	RR							
350800	CC-1114-RR25	PIPING	V1-3	NDEP 9.2 RD	Х		*	
	RR	*						
	10-CC-1115-WA3-D							
354000	CC-1115-RR19	PIPING	V1-3	NDEP 9.2 RO	×	w		
	RR							
354300	CC-1115-RR22	PIPING	V1-3	NDEP 9.2 RO	Х	*		
	RR	1.3						
	10-CC-1115-WA3-U							
354900	CC-1115-RR09	PIPING	VT-3	NDEP 9.2 RD	X		*	
	RR							
355000	CC-1115-RR10	PIPING	V1-3	NDEP 9.2 RO	X			
			10.00					

DATE: 03/22/93 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1
REVISION: 0 INSERVICE INSPECTION SUMMARY - TRE04 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF) CLASS 3 COMPLETED COMPONENTS

PAGE: 21

COMPONENT COOLING 3

ASME SEC. XI CATGY EXAM REH E O E REMARKS ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

10-CC-1116-WA3-A

SUMMARY EXAMINATION AREA

NUMBER IDENTIFICATION

356000 CC-1116-HL5001 PIPING V1-3 NDEP 9.2 RD X - -RR

10-cc-1116-WA3-D

356800 CC-1116-HL5002 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 3 COMPLETED COMPONENTS

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	Po mark tow	TOTAL TARIES AND A	SEC. XI					H	REMARKS
		EXAMINATION AREA IDENTIFICATION	CATGY LITEM NO		PROCEDURE				**CALIBRATION BLOCK**
		INCRITION		*****					
		30-EW-1105-WT3-A							
		EW-1105-HL5003	PIPING	V1-3	NDEP 9.2 RO	X	*		
		RR							
	378500	EW-1105-HL5004	PIPING	V1-3	NDEP 9.2 RO	X	7		
		RR							
		10-EW-1107-WT3-AB							
	402000	EW-1107-HL5002	PIPING	VT-3	NDEP 9.2 RD	К		*	
Da.		GUIDE							
		10-EW-1107-W13-AC							
	402300	EW-1107-HL5008 GUIDE	PIPING	V1-3	NDEP 9.2 RD	Х			
		UDIDE							
		6-EW-1107-WT3-AA							
	v 00200	PH 4402 W E002	BIBLIC	UT . T	NDEP 9.2 RD	v			
	409300	EW-1107-HL5003 GUIDE	PIPING	¥1-5	NUCE YEE KU			120	
	409400	EW-1107-HL5004	PIPING	V7-3	NDEP 9.2 RD	Х	*		92 - EXAMINED AFTER REINSTALLATION PER MOD EW-116446.
		GUIDE							MUD EW-110440.
		6-EW-1125-WT3-A1							
	230500	FU 440E W FOOR	******	105.2	UDED 0 7 00				63 - FVANTAGES AFTER SETTINGS - FEB.
	*10100	EW-1125-HL5008 GUIDE	PIPING	N1-2	NDEP 9.2 RD	×		V.	92 - EXAMINED AFTER REINSTALLATION PER SR# 151258.
		MOTOR TO THE PARTY OF THE PARTY							21.0 - 21.0 V

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

ESSENTIAL COOLING WATER 3

GUIDE

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		SEC. XI			R	£	H	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Ε	0	3	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	M	R	**CALIBRATION BLOCK**

	6-EW-1128-WT3-C							
410800	EW-1128-HL5003 RR	PIPING	VT-3	NDEP 9.2 RD	×			92 - EXAMINED AFTER REINSTALLATION PER MOD EW-116446.
	6-EW-1127-WT3-A							
417200	EW-1127-HL5001	PIPING	V1-3	NDEP 9.2 RD	Х			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 - TREO4 (SUPPORTS)
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)
CLASS 3 COMPLETED COMPONENTS

COMPONENT COOLING 3

SUMMARY EXAMINATION AREA
NUMBER IDENTIFICATION

CATGY EXAM E O E REMARKS

ITEM NO METHOD PROCEDURE C M R **CALIBRATION BLOCK**

3R201NTS101A

420200 CCST1 EQUIP VT-3 NDEP 9.2 RO X - - 92 - COMPONENT CODLING SURGE TANK CC SURG TANK - SUPPORT IS LOCATED UNDER THE TANK
MANHOLE COVER.

DATE: 03/22/93 SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1
REVISION: 0 INSERVICE INSPECTION SUMMARY - TREO4 (SUPPORTS) FIRST INTERVAL, SECOND PERIOD, FIRST DUTAGE (92RF) CLASS 3 COMPLETED COMPONENTS

PAGE: 25

DIESEL JACKET WATER 3

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

30151MHX0134

EQUIP VT-3 NDEP 9.2 RD X - - 92 - JACKET WATER HEAT EXCHANGER (TRAIN 421700 JHX2A A) - SUPPORT IS LOCATED FARTHEST FROM
THE ENGINE. JW HEAT EXCH

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION UNIT 1
INSERVICE INSPECTION SUMMARY - TREG4 (SUPPORTS)
FIRST INTERVAL, SECOND PERIOD, FIRST OUTAGE (92RF)
CLASS 3 COMPLETED COMPONENTS

PAGE: 26

DIESEL LUBE OIL 3

			ASME			0	G	Ť	
			SEC. XI			R	E	Н.	
SUM	MARY	EXAMINATION AREA	CATGY	EXAM		E	0	E	REMARKS
NUM	BER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	м	R	**CALIBRATION BLOCK**
-			****				100	96	

30151MPU0134

424300	LCP1A	EQUIP VT-3	NDEP 9.2 RG X	92 - LUBE DIL CIRC. PUMP (TRAIN A) -
	THE CIPE DIMP			SINGLE BASE SUPPORT.

30151MSA0134

424700	LUZA	EQUIP	VT-3	NDEP 9.2 RG	Х	92 - LUBE OIL PIPE SUPPORT (TRAIN A) -
	LU PIPE SUPT					SUPPORT IS LOCATED DOWNSTREAM OF LUBE
						OIL STRAINERS AND ADJACENT TO THE ENGINE

CONNECTION ON 30151MSA0134.

APPENDIX 3-B
PERSONNEL

APPENDIX 3-B

PERSONNEL

Name	Company	Level
S. K. Hubbard	HL&P	III
T. K. Smith	HL&P	1-T
L. D. Spiess	HL&P	11
C. D. Suhler	HL&P	11
A. R. Pennanen	NES	П
Groanvelt, H. L.	GTS	П
Mayer, K. J.	GTS	11
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 OWNER'S REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

The second secon	NAME AND ADDRESS OF THE OWNER, WHEN PARTY AND AD	NAME AND ADDRESS OF THE OWNER OWNER OF THE OWNER	THE RESIDENCE OF THE PARTY OF T			
1. Owner Houston Ligh		Electric Tower; P.O. Box 1700 Address of Owner)); Houston, Texas 77001			
2. Plant South Texas Pr		g Station; P.O. Box 289; Wads	worth, Texas 77483			
		Address of Plant)				
3. Plant Unit 1	3. Plant Unit 1 4. Owner and Certificate of Authorization (if required) N.A.					
5. Commercial Service I	Date 08/25/88 6. Nation	al Board Number for Unit	I.A.			
7. Components Inspecte		s 1 - Component Supports Pro for Identification Numbers)	ogram			
Component or	Manufacturer	Manufacturer or Installer	National Roard No.			

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Reactor Coolant Pump 1B Class 1	Westinghouse (M)	1-115E5& G01	28
Piping Supports	Ebasco (I)	N.A.	N.A.
Section.			

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

Date 3-24-19 93

FORM NIS-1 (Back)

roma mos (mas)
10/16/92 9. Inspection Interval from 08/25/88 to 08/25/98
a list of examinations and a statement concerning status of words. A code Class 1 Component Supports - Piping and Equipment) 3-A of 1RE04 Summary Report for list of examinations performed is outage constitute 14% of the required examinations for the current entage completed for the interval is 50%.
ecommended and Taken.
made in this report are correct and the examinations and corrective f ASME Code, Section XI.
licable) N.A. Expiration Date N.A.
Owner R. L. Bevery
CATE OF INSERVICE INSPECTION
ommission issued by the National Board of Boiler and Pressure twince of Texas and employed by Arkwright Mutual Insurance Co. e components described in this Owner's Report during the period and state that to the best of my knowledge and belief, the not taken corrective measures described in this Owner's Report in and as required by the ASME Code, Section XI. er the Inspector nor his employer makes any warranty, express or as and corrective measures described in this Owner's Report, nor his employer shall be liable in any manner for any personal of any kind arising from or connected with this inspection. Factory Mutual System Commissions Tex 826
National Board, State, Province, and Endorsements

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

	(Name and Address	s of Owner)
2. Plant South Texas Project Ele	ectric Generating Stat	ion; P.O. Box 289; Wadsworth, Texas 77483
3. Plant Unit 1		tificate of Authorization (if required) N.A.
5. Commercial Service Date 08/2	5/88 6. National Bo	ard Number for Unit N.A.
PIPING SUPPOR	T MARK NO.	TYPE
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
EQUIPMENT SU	PPORT MARK NO.	DESCRIPTION
RPRIB	Control of the last of the las	RC PUMP RODS
RPR2B		RC PUMP RODS
RPR3B		RC PUMP RODS

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

The same of the sa		TARREST OF THE PARTY OF THE CONTROL OF THE PARTY OF THE P	
1. Owner Houston Lig	hting & Power Company; (Name and A	Electric Tower, P.O. Box 1700 ddress of Owner)); Houston, Texas 77001
2. Plant South Texas I	Project Electric Generating (Name and	Station; P.O. Box 289; Wads Address of Plant)	worth, Texas 77483
3. Piant Unit _1	4. Owner and	Certificate of Authorization	(if required) N.A.
		al Board Number for Unit _1	
7. Components Inspect	ed ASME Code Class (See Page 3 of 3 l	2 - Component Supports Pr for Identification Numbers)	ogram
Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Class 2 Piping Supports	Ebasco (1)	N.A.	N.A.

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			
 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%. 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 cotted key/dislodged shear pin. See Section 3.4.1 of 1RE04 Summary Report. 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 or appleted. 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 Az Berealy 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 \$\frac{\beta-15-92}{\beta-15-92}\$ to \$\frac{3-24-93}{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 x-21 ranty. 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 ioss of any kind arising from or connected with this inspection. Factory Mutual System Commissions Tex 826 National Board, State, Province, and Endorsements B. R. Russell Date 3-24-19 93			
240			

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.

PIPING SUPPORT MARK NO.	TYPE
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
S1-1101-HL5025	RR
SI-1101-HL5016	RR
SI-1101-HL5004	RR
SI-1101-HL5013	RR
S1-1101-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
S1-1109-HL5003	GUIDE
SI-1139-HF5002	U-BOLT

HL&P by Oth Severly Date 3/23/93 Factory Mutual by _______ System

Losell Date 3-24-93

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 3 - Component Supports Program (See Page 3 of 3 for Iden ification Numbers)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	National Board No.
Component Cooling Surge Tank Jacket Water Heat	Brown-Minneapolis Tank (M)	464702A	N.A.
Jacket Water Heat Exchanger (JHX2A)	American Standard (M)	9H0301	33817
DG Auxiliary Skid No. 11	Cooper Energy Services (M)	8L0101	N.A.
Class 3 Piping Supports	Ebasco (I)	N.A.	N.A.
Pierral III			
		FILE WELL	

HL&P by R. L. Beverly

Date 3/23/93

Factory Mutual by System B. R. Russell, ANII

Date 3-24-93

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 1RE04 Summary Report.

12. Abstract of Corrective Measures Recommended and Taken.

Rework is recommended on piping support AF-1011-FIL5001 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 Berry 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.

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

Inspector's Signature

B. R. Russell

Date 3-34-1993

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

	77001
1. Owner Houston Lighting & Power	Company; Electric Tower; P.O. Box 1700; Houston, Texas 77001
(Ni	ame and Address of Owner)
2 Plant South Texas Project Flectric	Generating Station; P.O. Box 289; Wadsworth, Texas 77483
2 Fram South resus Fronces Educate	lame and Address of Plant)
	acre and radicion or a more
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.
PIPING SUPPORT MARK N	O. TYPE
AF-1054-HL5^q2	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-SF106	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-H1.5001	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)
EQUIPMENT SUPPORT MA	ARK NO. DESCRIPTION
CCSTI SOFFGRI MA	CC SURG TANK
CCS11	OU SORO TANK

JW HEAT EXCH LCP1A (DG Auxiliary Skid No. 11) LU CIRC PUMP LU2A (DG Auxiliary Skid No. 11) LU PIPE SUPT

Levely Date 3-23-93 Factory Mutual by

B. R. Russell, ANII

_ Date 3-24-93