

Arkansas Nuclear One - Unit 2

Inservice Inspection Program

Volume 18

Seventh Refueling Outage Examination Data

9003260007 900313
PDR ADOCK 05000368
Q FDC

INSERVICE EXAMINATIONS

Payne APOL
10/30/89

MBEL AWH
10-30-81

ANO-2 WELD/SCAN LOG

WELD/SCAN #	DATA PACKAGE #	VIDEO	STRIP CHART #
01-011-1	ANO-410-002-10	UT-28	SC-1
01-009-1			
01-010-1	ANO-410-002-11	UT-29	SC-2
01-012-1			
01-013-1			
01-014-1			
01-015-1			
01-017-1			
01-018-1			
01-019-1			
01-020-1			
01-016-1		UT-30	
01-011-2	ANO-410-002-12	UT-31	SC-3
01-026-1			
01-025-1	ANO-410-002-13	UT-32	SC-4
01-023-1			
01-022-1		UT-33	SC-5
01-021-1			
01-024-1		UT-34	SC-6
01-024-2			
01-021-2		UT-35	SC-7
01-027-1			
01-028-1	ANO-410-002-14	UT-36	SC-8
01-029-1			
01-030-1			
01-031-1			
01-032-1			
01-033			
01-038	ANO-410-005-1	N/A	N/A VT of CSB Saddle Lugs
01-020-2	ANO-410-003-1	N/A	N/A Flange L coverage
01-L-051 thru 01-L-052			
01-L-053 thru 01-L-054	4678-ISI-005-1	N/A	N/A Flange Ligaments 1-2+39-54

AND-2 2R7
Automated RPV Examination
Strip Chart Indication Nomenclature

<u>Code</u>	<u>Description</u>
FR	Front Reflection
BR	Back Reflection
EI	Electrical Interference (if actually observed)
FRM	Front Reflection Multiple (if unquestionably verified by CRT observation)
TA	Taper
MP	Mid-plate Condition
R	Relevant Indication
G	Geometry
BRD	Beam Redirection
NR	Not repeatable
CT	Cross Talk

Raymond AMCL
10/30/89

NBCI-AMCL
10-30-89

CONDUCTION ENGINEERING
POWER SYSTEMS GROUP

Linearity IN

RD Payne APOL
10/30/89

ULTRASONIC INSTRUMENT LINEARITY RECORD

NBEL ANTI
10.30.89

ULTRASONIC INSTRUMENT

Mfg/Model No. KB-6000

Serial No. 313923

Filter Setting 1 OFF 2 OFF

Calibration Block

Type N/A

Serial No. N/A

Transducer PSG

Mfg. C-E

Size N/A

Frequency 2.25 MHz

Serial No. 45028

Straight Angle

Beam (N/A) Beam (N/A)

HORIZONTAL LINEARITY

Back Reflect.	Grid Loc.	Acceptance Limits
1	1	1
2	2	1.90-2.10
3	3	2.85-3.15
4	4	3.80-4.20
5	5	4.75-5.25
6	6	5.70-6.30
7	7	6.65-7.35
8	8	7.60-8.40
9	9	8.55-9.45
10	10	10

No.	Actual Higher Signal	(Calculate) 1/2 of Higher	Acceptance Limits*	Actual Lower Signal
1	100	(50)	(45)-(55)	50
2	90	(45)	(40)-(50)	46
3	80	(40)	(35)-(45)	41
4	70	(35)	(30)-(40)	36
5	60	(30)	(25)-(35)	32
6	50	(25)	(20)-(30)	26
7	40	(20)	(15)-(25)	22
8	30	(15)	(10)-(20)	16
9	20	(10)	(5)-(15)	12
10	10	(5)	(0)-(10)	6

*Acceptance Limits are 1/2 of the Higher Signal \pm 5% FSH.

Signal amplitudes are in % FSH.

AMPLITUDE CONTROL LINEARITY

Initial Amplitude	dB Change	Result	Acceptance Limits
80% FSH	Down 6	39	32% - 48%
80% FSH	Down 12	20	16% - 24%
40% FSH	Up 6	81	64% - 96%
20% FSH	Up 12	81	64% - 96%

This instrument is considered:

(☒) Acceptable **

() Not Acceptable

Test performed by: Casey LaRoe Level II Date 9-17-89

Test approved by: N/A Level N/A Date N/A

* Level II or III approval. Only required when Level I performs the linearity verification.

** Acceptable for three months from date of test.

ORIGINAL

Linearity Out

Revised APOC
10/30/89
WBEH AOTE
10-30-89

ULTRASONIC INSTRUMENT LINEARITY RECORD

ULTRASONIC INSTRUMENT

Mfg/Model No. KRAUTKAMER KB6000

Serial No. 313923

Filter Setting 1 OFF 2 OFF

Calibration Block

Type N/A

Serial No. N/A

Transducer PSG

Mfg. C-E

Size N/A

Frequency 2.25

Serial No. 45028

Straight Angle

Beam (N/A) Beam (N/A)

HORIZONTAL LINEARITY

Back Reflect.	Grid Loc.	Acceptance Limits
1	1	1
2	2	1.90-2.10
3	3	2.85-3.15
4	4	3.80-4.20
5	5	4.75-5.25
6	6	5.70-6.30
7	7.1	6.65-7.35
8	8.1	7.60-8.40
9	9.1	8.55-9.45
10	10	10

ORIGINAL

No	Actual Higher Signal	(Calculate) 1/2 of Higher	Acceptance Limits*	Actual Lower Signal
1	100	(50)	(45)-(55)	50
2	90	(45)	(40)-(50)	45
3	80	(40)	(35)-(45)	40
4	70	(35)	(30)-(40)	35
5	60	(30)	(25)-(35)	30
6	50	(25)	(20)-(30)	25
7	40	(20)	(15)-(25)	20
8	30	(15)	(10)-(20)	16
9	20	(10)	(5)-(15)	10
10	10	(5)	(0)-(10)	5

*Acceptance Limits are 1/2 of the Higher Signal \pm 5% FSH.

Signal amplitudes are in % FSH.

AMPLITUDE CONTROL LINEARITY

Initial Amplitude	dB Change	Result	Acceptance Limits
80% FSH	Down 6	38	32% - 48%
80% FSH	Down 12	18	16% - 24%
40% FSH	Up 6	86	64% - 96%
20% FSH	Up 12	84	64% - 96%

This instrument is considered:

(✓) Acceptable **

() Not Acceptable

Test performed by: Carey L. Hoya Level II Date 10-22-89

Test approved by: N/A Level N/A Date N/A

* Level II or III approval. Only required when Level I performs the linearity verification.

** Acceptable for three months from date of test.

ULTRASONIC INSTRUMENT LINEARITY RECORD

DD Payne APAC
10/30/89
W3 E. L. W. II
10-30-89

ULTRASONIC INSTRUMENT

Mfg/Model No. KB-6000

Serial No. 311344

Filter Setting OFF

VERTICAL LINEARITY IN

Calibration Block

Type C/S

Serial No. UT-7

Transducer -

Mfg. PANAMETRICS

Size 1" DIA

Frequency 2.25

Serial No. P59832

Straight Angle

Beam (X) Beam (%A)

No.	Actual Higher Signal	(Calculate) 1/2 of Higher	Acceptance Limits*	Actual Lower Signal
1	100	(50)	(45)-(55)	51
2	90	(45)	(40)-(50)	46
3	80	(40)	(35)-(45)	39
4	70	(35)	(30)-(40)	34
5	60	(30)	(25)-(35)	28
6	50	(25)	(20)-(30)	22
7	40	(20)	(15)-(25)	18
8	30	(15)	(10)-(20)	14
9	20	(10)	(5)-(15)	8
10	10	(5)	(0)-(10)	4

*Acceptance Limits are 1/2 of the
Higher Signal \pm 5% FSH.

Signal amplitudes are in % FSH.

HORIZONTAL LINEARITY

Back Reflect.	Grid Loc.	Acceptance Limits
1	1	1
2		1.90-2.10
3		2.85-3.15
4		3.80-4.20
5		4.75-5.25
6		5.70-6.30
7		6.65-7.35
8		7.60-8.40
9		8.55-9.45
10	10	10

AMPLITUDE CONTROL LINEARITY IN

Initial Amplitude	dB Change	Result	Acceptance Limits
80% FSH	Down 6	42	32% - 48%
80% FSH	Down 12	22	16% - 24%
40% FSH	Up 6	74	64% - 96%
20% FSH	Up 12	76	64% - 96%

This instrument is considered:

(X) Acceptable **

() Not Acceptable

Test performed by: Carley L. Loya Level II Date 10-8-89

Test approved by: * N/A Level N/A Date N/A

* Level II or III approval. Only required when
Level I performs the linearity verification.

** Acceptable for three months from date of test.

ULTRASONIC INSTRUMENT LINEARITY RECORD

Page 1 of 1
10/30/89
HSE/AN II
10-30-89

ULTRASONIC INSTRUMENT

Mfg/Model No. KB-6000

Serial No. 311344

Filter Setting OFF

VERTICAL LINEARITY OUT

Calibration Block

Type C/S

Serial No. UT-7

Transducer -

Mfg. PANAMETRICS

Size 1.0" DIA

Frequency 2.25

Serial No. P59832

Straight Angle

Beam (X) Beam (N/A)

No.	Actual Higher Signal	(Calculate) 1/2 of Higher	Acceptance Limits*	Actual Lower Signal
1	100	(50)	(45)-(55)	50
2	90	(45)	(40)-(50)	44
3	80	(40)	(35)-(45)	39
4	70	(35)	(30)-(40)	34
5	60	(30)	(25)-(35)	30
6	50	(25)	(20)-(30)	24
7	40	(20)	(15)-(25)	19
8	30	(15)	(10)-(20)	15
9	20	(10)	(5)-(15)	9
10	10	(5)	(0)-(10)	5

*Acceptance Limits are 1/2 of the Higher Signal \pm 5% FSH.

Signal amplitudes are in % FSH.

HORIZONTAL LINEARITY

Back Reflect.	Grid Loc.	Acceptance Limits
1	1	1
2		1.90-2.10
3		2.85-3.15
4	N	3.80-4.20
5		4.75-5.25
6	A	5.70-6.30
7		6.65-7.35
8		7.60-8.40
9		8.55-9.45
10	10	10

AMPLITUDE CONTROL LINEARITY OUT

Initial Amplitude	dB Change	Result	Acceptance Limits
80% FSH	Down 6	42	32% - 48%
80% FSH	Down 12	22	16% - 24%
40% FSH	Up 6	78	64% - 96%
20% FSH	Up 12	80	64% - 96%

This instrument is considered:

(X) Acceptable **

() Not Acceptable

Test performed by: Carly La Rosa Level II Date 10-8-89

Test approved by: N/A Level N/A Date N/A

* Level II or III approval. Only required when Level I performs the linearity verification.

** Acceptable for three months from date of test.

*AP&L
10/30/89*

COMBUSTION ENGINEERING

Plant/Unit ANO-2
Comp/System RPV
Zone 1
AP&L Procedure No. 1092.21

AUTOMATED EXAMINATION WELD SCAN DATA SHEET

Data Pkg. No. ANO-410-002-10
Procedure No. ANO-410-002
Rev/Change No. 2
Subject Auto UT Exam RPV Welds
Page 1 of 14

TRANSDUCER IDENTIFICATION:		CABLE/CON. N/A	
SIZE & SHAPE: 1.0" Ø		CABLE TYPE: RG-58	
STYLE OR TYPE: SPL/IMM		CABLE LENGTH: 975'	
MANUFACTURER: <u>NEUTRONICS</u> / <u>AUTO</u>		MOUNT: <u>RV WATER</u>	
CHANNEL #:	1	2	3
SERIAL NO.:	90916	90917	90915
FREQUENCY:	1.0 MHz	1.0 MHz	1.0 MHz
ANGLE/MODE:	60°	60°	45°
MEASURED ANGLE:	55°	57°	39°

SCAN NUMBER	SLED ORIENT.	SCAN AREA			Recordable Indications		COMMENTS
		0°	1 To Weld	11 To Weld	Yes	No	
01-011-1	1	X	X	X	X	N/A	MIDPLATE INDICATIONS OBSERVED DURING SCAN ARE RECORDED ON STRIP CHART

CALIBRATION CHECKS

	Cal. Blk	ECS	Time	Date	By
INITIAL CAL.	X	N/A	1230	10-16-89	CL
INTERMEDIATE	N/A	X	0800	10-17-89	CL
INTERMEDIATE	X	N/A	1130	10-17-89	CL
INTERMEDIATE	TARGET CHECK	N/A	1625	10-17-89	CL
INTERMEDIATE	N/A	X	2150	10-17-89	CL
FINAL CAL.	N/A	X	0745	10-18-89	CL

For additional calibration information see Calibration Data Pkg. ANO-410-002-11

EXAMINERS 1 *Carly to Amy* LEVEL TL DATE 10-16-89
2 *[Signature]* LEVEL TL DATE 10-16-89
REVIEWER *John R. Fort* DATE 10-22-89
AUTHORIZED INSPECTOR NBC DATE 10-30-89

Raymond A. P. C.
10/30/89

COMBUSTION ENGINEERING

Plant ANO-2
Comp/System RPV
Zone 1
AP&L Procedure Ib, 1092.21

AUTOMATED EXAMINATION ULTRASONIC CALIBRATION DATA SHEET

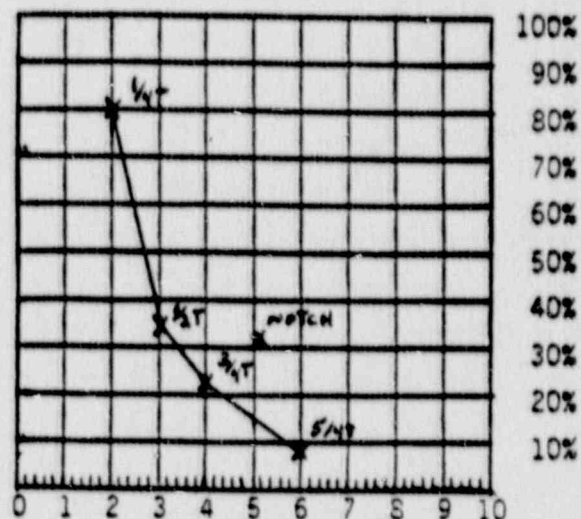
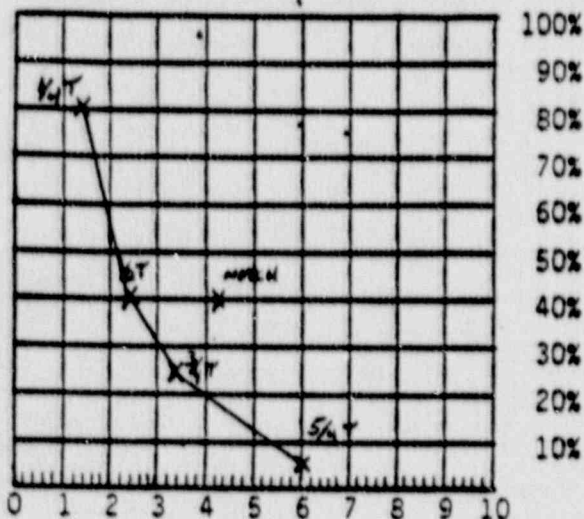
Data Pkg. No. ANO-410-002-10
Procedure No. ANO-410-002
Rev/Change No. 2
Cal. Block No. UT-2
Surface (ID/OD) ID
Block/Comp. Temp. 78 °F / 81 °F
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done 10/30/89 *for welds*

INSTRUMENT SETTING

Mfg/ Model No. KB-6000 Sweep Hi TWS: 11 F: 1.96
Serial No. 313923 Sweep Hi TWS: 14 Mat'l Cal. 7.60
CHNLS/RUN: 8 Rep Rate C: 5 Range SHEAR/ Hi TWS: 14 Mat'l Cal. 7.60
Mode Select: NORM/MAT Frequency: 1 MHz Reject: OFF

CHANNEL 1 Angle/Orient. 60°

CHANNEL 2 Angle/Orient. 60°



Initial Sensitivity <u>21</u> db			
Equalized Sensitivity <u>28/20</u> db			
Exam Sensitivity <u>28/20</u> db			
Screen Gated <u>1.0</u> sd to <u>6.2</u> sd			
Front Interface Signal Pos. <u>.8</u> sd			
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
1/4T SDH	1.4	80	80
1/2T SDH	2.4	40	80
3/4T SDH	3.4	26	78
NOTCH	4.2	40	82
5/4T SDH	6.0	5	84

Initial Sensitivity <u>24</u> db			
Equalized Sensitivity <u>30/20</u> db			
Exam Sensitivity <u>30/20</u> db			
Screen Gated <u>1.0</u> sd to <u>6.2</u> sd			
Front Interface Signal Pos. <u>.8</u> sd			
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
1/4T SDH	2.0	80	80
1/2T SDH	3.0	34	80
3/4T SDH	4.0	22	80
NOTCH	5.1	32	80
5/4T SDH	6.0	8	82

EXAMINERS 1. Carey L. [Signature] Level II Date 10-16-89 REVIEWER [Signature] Date 10/26/89
2. [Signature] Level II Date 10-16-89 AUTHORIZED INSPECTOR [Signature] Date 10/30/89

APOL
10/30/89

COMBUSTION ENGINEERING

Plant ANO-2
Comp/System RPV
Zone 1
AP&L Procedure Ib. 1092.21

AUTOMATED EXAMINATION ULTRASONIC CALIBRATION DATA SHEET

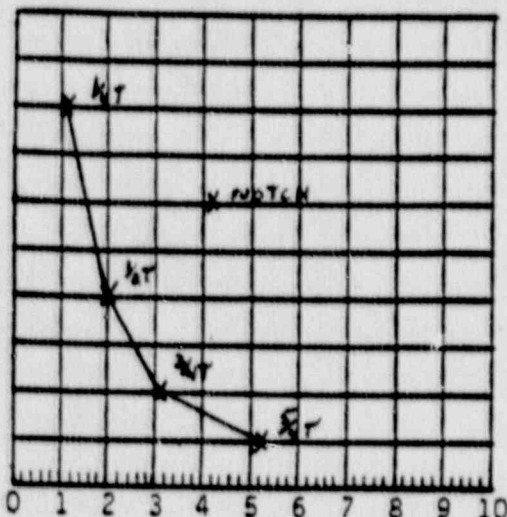
Data Pkg. No. ANO-410-002-10
Procedure No. ANO-410-002
Rev/Change No. 2
Cal. Block No. UT-2
Surface (ID/OD) ID
Block/Comp. Temp. 78°F / 81°F
Page 343 of 1314
Date 10/24/89 By 10/18/89

INSTRUMENT SETTING *SEE PAGE 2

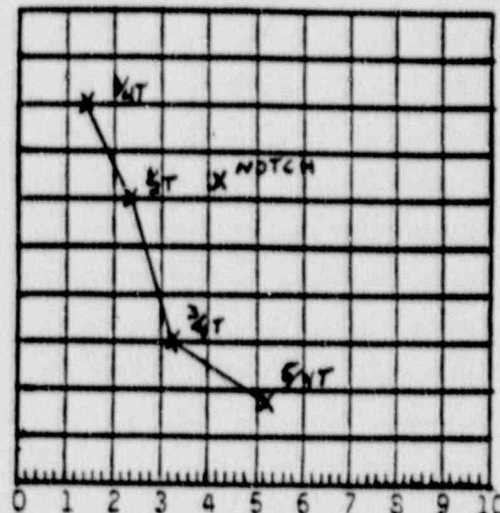
Mfg/ Model No.	KB-6000	Sweep Delay	N	TWS:	F:
Serial No.		Wave Mode		TWS:	Mat'l Cal.
CHNLS/RUN:	Rep Rate C:	Mode			
Mode Select:	1	Frequency:	A	Reject:	

CHANNEL 3 Angle/Orient. 45°

CHANNEL 4 Angle/Orient. 45°



100%
90%
80%
70%
60%
50%
40%
30%
20%
10%



100%
90%
80%
70%
60%
50%
40%
30%
20%
10%

Initial Sensitivity				19 db
Equalized Sensitivity				26/20 db
Exam Sensitivity				26/20 db
Screen Gated				1.0 sd to 5.4 sd
Front Interface Signal Pos.				.6 sd
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %	
1/4T SDH	1.1	80	78	
1/2T SDH	2.0	40	76	
3/4T SDH	3.1	20	82	
NOTCH	4.2	60	78	
5/4T SDH	5.2	10	78	

Initial Sensitivity				14 db
Equalized Sensitivity				20/20 db
Exam Sensitivity				20/20 db
Screen Gated				1.0 sd to 5.4 sd
Front Interface Signal Pos.				.8 sd
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %	
1/4T SDH	1.4	80	80	
1/2T SDH	2.3	60	82	
3/4T SDH	3.2	30	82	
NOTCH	4.2	65	84	
5/4T SDH	5.2	18	78	

EXAMINERS 1. Carney L. Jones Level II Date 10/16/89 REVIEWER Alvin R. F. F. III Date 10/24/89
2. Donna L. Jones Level III Date 10/16/89 AUTHORIZED INSPECTOR WBC Date 10/30/89

DDP/Amc APOL
10/30/89

COMBUSTION ENGINEERING

Plant AND-2
Comp/System RPV
Zone 1
AP&L Procedure lb. 1092.21

AUTOMATED EXAMINATION ULTRASONIC CALIBRATION DATA SHEET

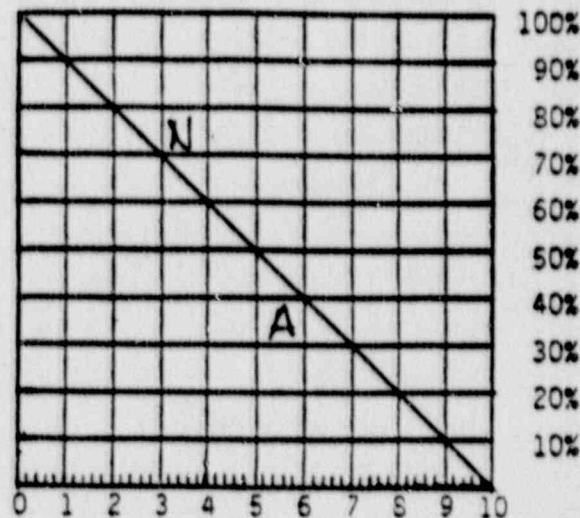
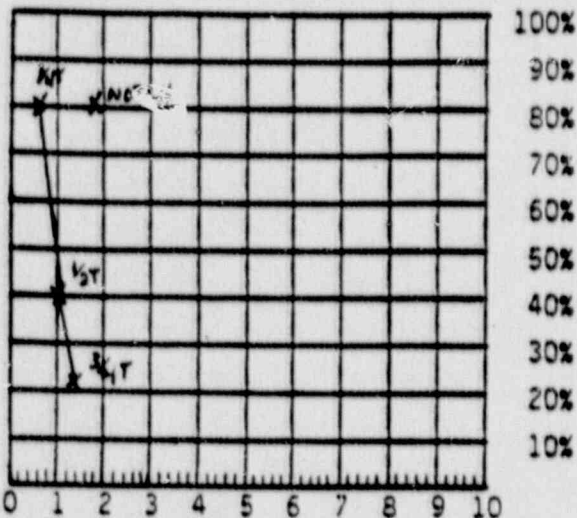
Data Pkg. No. AND-410-002-10
Procedure No. AND-410-002
Rev/Change No. 2 *plus*
Cal. Block No. UT-2 + DFL
Surface (ID/OD) ID
Block/Comp Temp. 28°F / 81°F
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10/22/89 *10/22/89*

INSTRUMENT SETTING * SEE PAGE 2

Mfg/Model No. <u>KB-6000</u>	Swamp	TWS:	F:
Serial No.	Delay		
CHNLS/RUN: Rep Rate C: <u>F:</u>	Range	TWS:	Mat'l Cal.
Mode Select: <u>/</u>	Frequency:	Reject:	

CHANNEL 5 Angle/Orient. 0° N/A

CHANNEL N/A Angle/Orient. N/A



* 28 DB To MAINTAIN BW

Initial Sensitivity <u>18</u> db			
Equalized Sensitivity <u>24/20</u> db			
Exam Sensitivity <u>*24/20</u> db			
Screen Gated <u>.8</u> sd to <u>8.0</u> sd			
Front Interface Signal Pos. <u>.2</u> sd			
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
<u>1/4T SDH</u>	<u>.6</u>	<u>80</u>	<u>78</u>
<u>1/2T SDH</u>	<u>1.0</u>	<u>40</u>	<u>80</u>
<u>3/4T SDH</u>	<u>1.4</u>	<u>22</u>	<u>80</u>
<u>BW</u>	<u>1.8</u>	<u>80</u>	<u>76</u>

Initial Sensitivity db			
Equalized Sensitivity db			
Exam Sensitivity db			
Screen Gated <u>N</u> sd to sd			
Front Interface Signal Pos. sd			
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
		<u>A</u>	

EXAMINERS 1. Carey L. Long Level II Date 10-16-89 REVIEWER Shirley J. Voss Date 10/22/89
2. [Signature] Level III Date 10-16-89 AUTHORIZED INSPECTOR Nobel Date 10/30/89

Page APOL
10/30/89

COMBUSTION ENGINEERING

Plant/Unit ANO-2

AP&L Procedure No. 1092.21

Daily

KB-6000

AUTOMATED EXAMINATION CALIBRATION CHECK SHEET

Data Pkg. No. ANO-410-002-10

Procedure No. ANO-410-002

Rev/Change No. 2

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CHANNEL 1

CHANNEL

CHANNEL 10/22/89

INSTR. LINEARITY RESPONSE					INSTR. LINEARITY RESPONSE					INSTR. LINEARITY RESPONSE				
Amplitude					Amplitude					Amplitude				
High	Low	High	Low		High	Low	High	Low		High	Low	High	Low	
1	100	60	5	50	24	1	5			1		5		
2	80	40	6	40	3	2	6			2		6		
3	70	34	7	30	16	3	7			3		7		
4	60	30	8	20	12	4	8			4		8		
AMPL. CONTROL LINEARITY					AMPL. CONTROL LINEARITY					AMPL. CONTROL LINEARITY				
Initial	A db	Result			Initial	A db	Result			Initial	A db	Result		
80	-6	40			80	-6				80	-6			
80	-12	21			80	-12				80	-12			
40	+6	81			40	+6				40	+6			
20	+12	85			20	+12				20	+12			

INSTR. LINEARITY RESPONSE					INSTR. LINEARITY RESPONSE					INSTR. LINEARITY RESPONSE				
Amplitude					Amplitude					Amplitude				
High	Low	High	Low		High	Low	High	Low		High	Low	High	Low	
1		5			1		5			1		5		
2		6			2		6			2		6		
3		7			3		7			3		7		
4		8			4		8			4		8		
AMPL. CONTROL LINEARITY					AMPL. CONTROL LINEARITY					AMPL. CONTROL LINEARITY				
Initial	A db	Result			Initial	A db	Result			Initial	A db	Result		
80	-6				80	-6				80	-6			
80	-12				80	-12				80	-12			
40	+6				40	+6				40	+6			
20	+12				20	+12				20	+12			

EXAMINER Carney L. Lync LEVEL II DATE 10/16/89
 EXAMINER James D. Duda LEVEL III DATE 10/16/89
 REVIEWER John R. F. F. LEVEL III DATE 10/22/89
 AUTHORIZED INSPECTOR NBC DATE 10-30-89

Q. Payne AP&L
10/30/89

COMBUSTION ENGINEERING

Plant/Unit ANO-2
AP&L Procedure No. 1092.21
Daily

KB-6000

AUTOMATED EXAMINATION CALIBRATION CHECK SHEET

Data Pkg. No. ANO-410-002-10
Procedure No. ANO-410-002
Rev/Change No. 2
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CHANNEL 1

CHANNEL

CHANNEL inlet

INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE					
Amplitude						Amplitude						Amplitude					
High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low		
1	100	50	5	50	26	1	5			1	5						
2	80	40	6	40	19	2	6			2	6						
3	70	36	7	30	14	3	7			3	7						
4	60	31	8	20	11	4	8			4	8						
AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY					
Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	
80	+6	41	80	+6		80	+6		80	+6		80	+6		80	+6	
80	-12	19	80	-12		80	-12		80	-12		80	-12		80	-12	
40	+6	83	40	+6		40	+6		40	+6		40	+6		40	+6	
20	+12	79	20	+12		20	+12		20	+12		20	+12		20	+12	

INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE					
Amplitude						Amplitude						Amplitude					
High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low		
1			5			1			5			1			5		
2			6			2			6			2			6		
3			7			3			7			3			7		
4			8			4			8			4			8		
AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY					
Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	
80	+6		80	+6		80	+6		80	+6		80	+6		80	+6	
80	-12		80	-12		80	-12		80	-12		80	-12		80	-12	
40	+6		40	+6		40	+6		40	+6		40	+6		40	+6	
20	+12		20	+12		20	+12		20	+12		20	+12		20	+12	

EXAMINER Carney La Forge LEVEL II DATE 10-17-89
 EXAMINER David Seaton LEVEL II DATE 10-17-89
 REVIEWER John R. F. F. LEVEL III DATE 10-22-89
 AUTHORIZED INSPECTOR NBC DATE 10/30/89

DD Payne AP&L
10/30/89

COMBUSTION ENGINEERING

Plant/Unit ANO-2
AP&L Procedure No. 1092.21

KB-6000

Data Pkg. No. ANO-410-002-10
Procedure No. ANO-410-002
Rev/Change No. 2
Page 27 of 14

Daily 10-18-89

AUTOMATED EXAMINATION CALIBRATION CHECK SHEET

CHANNEL 1

CHANNEL

CHANNEL win

INSTR. LINEARITY RESPONSE					INSTR. LINEARITY RESPONSE					INSTR. LINEARITY RESPONSE				
Amplitude					Amplitude					Amplitude				
High	Low	High	Low		High	Low	High	Low		High	Low	High	Low	
1	100	50	5	50	25	1				5				
2	80	39	6	40	20	2				6				
3	70	34	7	30	15	3				7				
4	60	29	8	20	10	4				8				
AMPL. CONTROL LINEARITY					AMPL. CONTROL LINEARITY					AMPL. CONTROL LINEARITY				
Initial	A db	Result			Initial	A db	Result			Initial	A db	Result		
80	-6	38			80	-6				80	-6			
80	-12	18			80	-12				80	-12			
40	+6	85			40	+6				40	+6			
20	+12	86			20	+12				20	+12			
CHANNEL					CHANNEL					CHANNEL				
INSTR. LINEARITY RESPONSE					INSTR. LINEARITY RESPONSE					INSTR. LINEARITY RESPONSE				
Amplitude					Amplitude					Amplitude				
High	Low	High	Low		High	Low	High	Low		High	Low	High	Low	
1			5		1			5		1			5	
2			6		2			6		2			6	
3			7		3			7		3			7	
4			8		4			8		4			8	
AMPL. CONTROL LINEARITY					AMPL. CONTROL LINEARITY					AMPL. CONTROL LINEARITY				
Initial	A db	Result			Initial	A db	Result			Initial	A db	Result		
80	-6				80	-6				80	-6			
80	-12				80	-12				80	-12			
40	+6				40	+6				40	+6			
20	+12				20	+12				20	+12			

EXAMINER Carey L. Lora LEVEL II DATE 10-18-89
EXAMINER [Signature] LEVEL II DATE 10-18-89
REVIEWER [Signature] LEVEL II DATE 10/22/89
AUTHORIZED INSPECTOR WBE DATE 10/30/89

Rayne ADEL
10/30/89

COMBUSTION ENGINEERING

Plant/Unit ANO-2
AP&L Procedure No. 1092.21

KB-6000

Data Pkg. No. ANO-410-002-10
Procedure No. ANO-410-002
Rev/Change No. 2
Page 8 of 14

Daily

AUTOMATED EXAMINATION
CALIBRATION CHECK SHEET

CHANNEL 1

CHANNEL

CHANNEL

INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE					
Amplitude						Amplitude						Amplitude					
High		Low				High		Low				High		Low			
1	100	50	5	50	24	1						1			5		
2	80	38	6	40	18	2			6			2			6		
3	70	34	7	30	14	3			7			3			7		
4	60	28	8	20	8	4			8			4			8		
AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY					
Initial		A db		Result		Initial		A db		Result		Initial		A db		Result	
80		-6		40		80		-6				80		-6			
80		-12		18		80		-12				80		-12			
40		+6		80		40		+6				40		+6			
20		+12		84		20		+12				20		+12			
CHANNEL						CHANNEL						CHANNEL					
INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE					
Amplitude						Amplitude						Amplitude					
High		Low				High		Low				High		Low			
1			5			1			5			1			5		
2			6			2			6			2			6		
3			7			3			7			3			7		
4			8			4			8			4			8		
AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY					
Initial		A db		Result		Initial		A db		Result		Initial		A db		Result	
80		-6				80		-6				80		-6			
80		-12				80		-12				80		-12			
40		+6				40		+6				40		+6			
20		+12				20		+12				20		+12			

EXAMINER Garney L. Lora LEVEL II DATE 10-19-89
EXAMINER [Signature] LEVEL II DATE 10-19-89
REVIEWER [Signature] LEVEL IV DATE 10/22/89
AUTHORIZED INSPECTOR NBE L DATE 10/30/89

PSG DATA SHEET

Attached to:
Data Package No. ANO-410-002-10

Page 8209 of 42-14

CHANNEL 1 FREQ: 1 MHz VELOCITY: S SHAPE: N

KBI- CHNL 1 DELAY 95.0 μ s INTERVAL 44.5 μ s OUTPUT LEVEL 32.0 db

60° L

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	220	104	54	13							N/A
Screen Amp	80	40	21	11							100%

CHANNEL 2 FREQ: 1 MHz VELOCITY: S SHAPE: N

KBI- CHNL 2 DELAY 126.0 μ s INTERVAL 43.3 μ s OUTPUT LEVEL 31.5 db

60° H

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	216	86	42	15	10						N/A
Screen Amp	80	34	22	14	8						98%

CHANNEL 3 FREQ: 1 MHz VELOCITY: S SHAPE: N

KBI- CHNL 3 DELAY 82.0 μ s INTERVAL 44.5 μ s OUTPUT LEVEL 32.5 db

45° L

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	210	100	30	12	11						N/A
Screen Amp	80	40	20	14	10						100%

CHANNEL 4 FREQ: 1 MHz VELOCITY: S SHAPE: N

KBI- CHNL 4 DELAY 102.5 μ s INTERVAL 41.0 μ s OUTPUT LEVEL 42.0 db

45° H

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	210	150	40	16	12						N/A
Screen Amp	80	60	30	21	18						100%

CHANNEL 5 FREQ: 1 MHz VELOCITY: S SHAPE: N

KBI- CHNL 5 DELAY 91.0 μ s INTERVAL 17.0 μ s OUTPUT LEVEL 33.5 db

0°

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	225	112	41	19							N/A
Screen Amp	80	40	22	15							98%

EXAMINER Carney L. Jones
EXAMINER James O. Jones
REVIEWER John R. 77

LEVEL II DATE 10-16-89
LEVEL III DATE 10-16-89
LEVEL IV DATE 10-22-89

COMBUSTION ENGINEERING
POWER SYSTEMS GROUP
AP&L Procedure No. 1092.21

PSG DATA SHEET

Attached to:
Data Package No. ANO-410-002-10

Page 910 of 1214

CHANNEL 7 FREQ: 2.25 MHz VELOCITY: S SHAPE: N

KBI- CHNL 7 DELAY 94.3 μ s INTERVAL 3.1 μ s OUTPUT LEVEL 28.5 db

NS L

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	214	106									N/A
Screen Amp	80	40									100%

CHANNEL 8 FREQ: 2.25 MHz VELOCITY: S SHAPE: N

KBI- CHNL 8 DELAY 94.3 μ s INTERVAL 5.1 μ s OUTPUT LEVEL 10.5 db

NS II

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	205	102									N/A
Screen Amp	80	40									98%

CHANNEL N/A FREQ: N/A MHz VELOCITY: N/A SHAPE: N/A

KBI- CHNL N/A DELAY N/A μ s INTERVAL N/A μ s OUTPUT LEVEL N/A db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level											
Screen Amp											

CHANNEL FREQ: MHz VELOCITY: SHAPE:

KBI- CHNL DELAY μ s INTERVAL μ s OUTPUT LEVEL db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level											
Screen Amp											

CHANNEL FREQ: MHz VELOCITY: SHAPE:

KBI- CHNL DELAY μ s INTERVAL μ s OUTPUT LEVEL db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level											
Screen Amp											

EXAMINER Carmy L. [Signature] LEVEL II DATE 10-16-89
EXAMINEE [Signature] LEVEL III DATE 10-16-89
REVIEWER [Signature] LEVEL IV DATE 10-22-89

COMBUSTION ENGINEERING

AP&L Procedure No. 1092.21

DD Payne AP&L
10/30/89

Attached to:

Data Package No. ANO-410-002-10

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10/12/89

10/22/89

B-TCG DATA SHEET

DTCC-CHANNEL 1 KBI- CHNL 1 PSG-CHNL 1 DELAY 53.0 μ s INTERVAL 51.0 μ s

60° L

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128	138	131	132	133					

EQ @ 78 % FSH KB6000 dB 28/20DTCC-CHANNEL 2 KBI- CHNL 2 PSG-CHNL 2 DELAY 90.5 μ s INTERVAL 46.4 μ s

60° II

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128	140	131	131	132					

EQ @ 78 % FSH KB6000 dB 30/20DTCC-CHANNEL 3 KBI- CHNL 3 PSG-CHNL 3 DELAY 42.0 μ s INTERVAL 46.1 μ s

45° L

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128	138	134	130	131					

EQ @ 81 % FSH KB6000 dB 26/20DTCC-CHANNEL 4 KBI- CHNL 4 PSG-CHNL 4 DELAY 72.0 μ s INTERVAL 42.0 μ s

45° II

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128	134	137	131	129					

EQ @ 79 % FSH KB6000 dB 20/20DTCC-CHANNEL 5 KBI- CHNL 5 PSG-CHNL 5 DELAY 86.0 μ s INTERVAL 17.0 μ s

0°

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128	159	131	133						

EQ @ 80 % FSH KB6000 dB 24/20

COMMENTS

EXAMINER Carney L. Lipe LEVEL II DATE 10-16-89
 EXAMINER James O. Lipe LEVEL II DATE 10-16-89
 REVIEWER John F. J. LEVEL III DATE 10/22/89
 AUTHORIZED INSPECTOR NBE DATE 10/30/89

DD Payne AP&L
10/30/89

Attached to:

Data Package No. ANO-410-002-10

B-TCG DATA SHEET

Page 124 of 1214*initial**initial*DTCC-CHANNEL ☒ KBI-CHNL ☒ PSG-CHNL ☒ DELAY 122.0 μ s INTERVAL 5.0 μ s

NS 1

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128									

EQ @ 80 % FSH KB600 dB 10/20DTCC-CHANNEL ☒ KBI-CHNL ☒ PSG-CHNL ☒ DELAY 122.0 μ s INTERVAL 5.0 μ s

NS 1

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128									

EQ @ 78 % FSH KB6000 dB 42/20DTCC-CHANNEL ☐ KBI-CHNL ☐ PSG-CHNL ☐ DELAY ☐ μ s INTERVAL ☐ μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope										

EQ @ ☐ % FSH KB6000 dB ☐DTCC-CHANNEL ☐ KBI-CHNL ☐ PSG-CHNL ☐ DELAY ☐ μ s INTERVAL ☐ μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope										

EQ @ ☐ % FSH KB6000 dB ☐DTCC-CHANNEL ☐ KBI-CHNL ☐ PSG-CHNL ☐ DELAY ☐ μ s INTERVAL ☐ μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope										

EQ @ ☐ % FSH KB6000 dB ☐

COMMENTS

EXAMINER Coney L. Lopez LEVEL II DATE 10-16-89
 EXAMINER [Signature] LEVEL II DATE 10-16-89
 REVIEWER [Signature] LEVEL III DATE 10/22/89
 AUTHORIZED INSPECTOR W.B. L. DATE 10/30/89

AUTOMATED ULTRASONIC EXAMINATION
REPORT SHEET FOR GEOMETRIC REFLECTORS
Supplement CB. Payne APAC
10/30/89

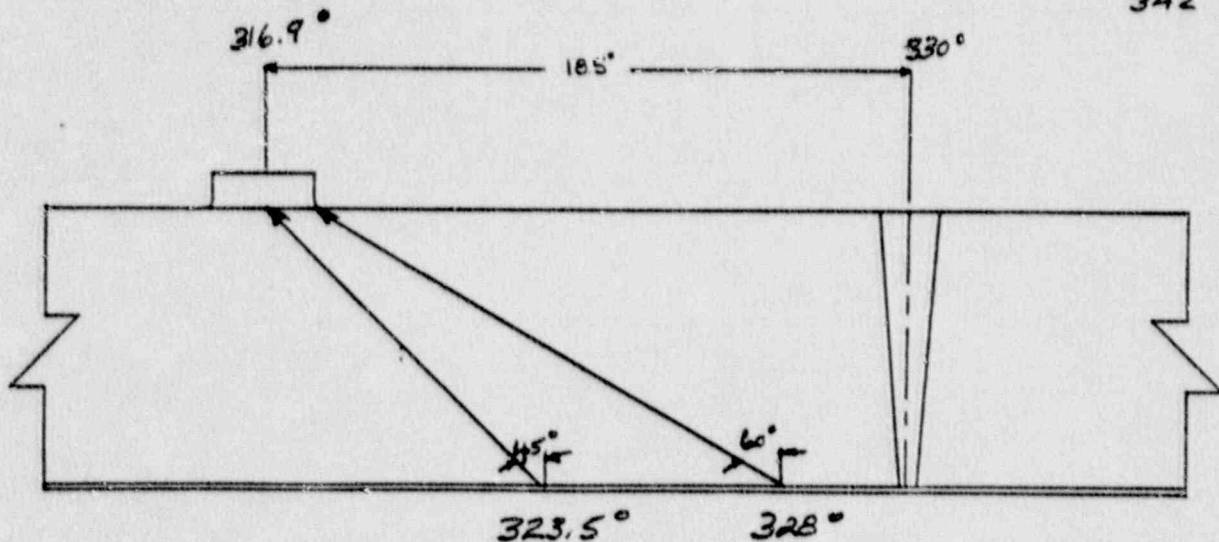
Weld Number 01-011 Indication Number(s) G-1

Channel Number: 2 & 4 Sweep Position: 0.2 To 4.4

Maximum % DAC: 100%+

ISI-2 Coordinates: Boom Rotate 323-328 and Hoist C 342"

Reference Drawing Number: 234-784

Comments and Sketches: ISI Buildup Pad Location: 316.9°; el. @ 323.5' 4/17
342 10/22/89

EXAMINER

LEVEL III

DATE

10/22/89

REVIEWER

LEVEL III

DATE

10/22/89

AUTHORIZED INSPECTOR

NBEdc

DATE

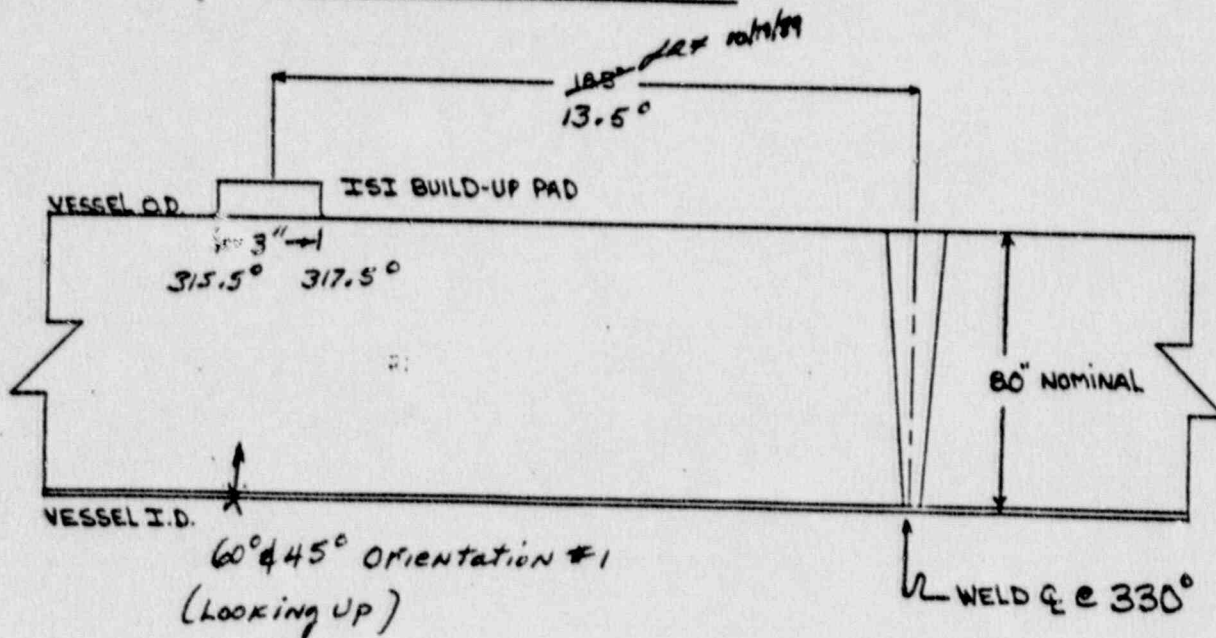
10/30/89

10/22/89

10/22/89

AUTOMATED ULTRASONIC EXAMINATION
REPORT SHEET FOR GEOMETRIC REFLECTORS
Supplement C

Weld Number 01-D11 Indication Number(s) G-1
Channel Number: 1 and 3 (60°, 45°) Sweep Position: 4.5 TO 8.0 SCREEN DIVISIONS
Maximum % DAC: 100 % +
ISI-2 Coordinates: X = Boom Rotated 315°-319° and Y = Hoist 274"-280"
Reference Drawing Number: CE Design E 234-784
Comments and Sketches: ISI BUILD-UP PAD LOCATION:



EXAMINED [Signature] LEVEL II DATE 10/19/89
REVIEWER [Signature] LEVEL III DATE 10/19/89
AUTHORIZED INSPECTOR N361 DATE 10/30/89

APOL
10/30/89

COMBUSTION ENGINEERING

Plant/Unit ANO-2
Comp/System RPV
Zone 1
AP&L Procedure No. 1092.21

AUTOMATED EXAMINATION WELD SCAN DATA SHEET

Data Pkg. No. ANO-410-002-II
Procedure No. ANO-410-002
Rev/Change No. 2
Subject Auto UT Exam RPV Welds
Page 1 of 7

TRANSDUCER IDENTIFICATION:		CABLE/EQUIPMENT: <u>N/A</u>	
SIZE & SHAPE: <u>1.0" Ø</u>		CABLE TYPE: <u>RG 58</u>	
STYLE OR TYPE: <u>SPL</u>		CABLE LENGTH: <u>975'</u>	
MANUFACTURER: <u>MEGA SODICS</u>		EQUIPMENT: <u>RV WATER</u>	
SLED NO. <u>E-SSD-217-071-1</u>			
CHANNEL #:	<u>1</u>	<u>2</u>	<u>3</u>
SERIAL NO.:	<u>90904</u>	<u>90912</u>	<u>90903</u>
FREQUENCY:	<u>2.25 MHz</u>	<u>2.25 MHz</u>	<u>2.25 MHz</u>
ANGLE/MODE:	<u>0°</u>	<u>0°</u>	<u>0°</u>
MEASURED ANGLE:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

SCAN NUMBER	SLED ORIENT.	SCAN AREA			Recordable Indications		COMMENTS
		0°	⊥ To Weld	To Weld	Yes	No	
01-015-1	1	<input checked="" type="checkbox"/>	N/A	N/A	N/A	<input checked="" type="checkbox"/>	Midplate indications
01-019-1	1	<input checked="" type="checkbox"/>	N/A	N/A	N/A	<input checked="" type="checkbox"/>	observed during
01-018-1	1	<input checked="" type="checkbox"/>	N/A	N/A	N/A	<input checked="" type="checkbox"/>	scan are recorded
01-014-1	1	<input checked="" type="checkbox"/>	N/A	N/A	N/A	<input checked="" type="checkbox"/>	on strip chart
01-010-1	1	<input checked="" type="checkbox"/>	N/A	N/A	N/A	<input checked="" type="checkbox"/>	
01-009-1	1	<input checked="" type="checkbox"/>	N/A	N/A	N/A	<input checked="" type="checkbox"/>	
01-017-1	1	<input checked="" type="checkbox"/>	N/A	N/A	N/A	<input checked="" type="checkbox"/>	

CALIBRATION CHECKS

	Cal. Blk	ECS	Time	Date	By
INITIAL CAL.	<input checked="" type="checkbox"/>	N/A	1300	10-16-89	CT
INTERMEDIATE	N/A	<input checked="" type="checkbox"/>	0815	10-17-89	CT
INTERMEDIATE	<input checked="" type="checkbox"/>	N/A	1145	10-17-89	CT
INTERMEDIATE	N/A	<input checked="" type="checkbox"/>	2150	10-17-89	CT
INTERMEDIATE	TARGET	N/A	0318	10-18-89	CT
FINAL CAL.	N/A	<input checked="" type="checkbox"/>	0330	10-18-89	CT

EXAMINERS 1 [Signature] LEVEL II DATE 10-16-89
2 [Signature] LEVEL II DATE 10-16-89
REVIEWER [Signature] UT II DATE 10/22/89
AUTHORIZED INSPECTOR [Signature] DATE 10/30/89

W. Payne A106
10/30/89

COMBUSTION ENGINEERING

Plant/Unit ANO-2
Comp/System RPV
Zone 1
AP&L Procedure No. 1092.21

AUTOMATED EXAMINATION WELD SCAN DATA SHEET

Data Pkg. No. ANO-410-002-11
Procedure No. ANO-410-002
Rev/Change No. 2
Subject Auto UT Exam RPV Welds
Page 2 of 7

TRANSDUCER IDENTIFICATION:		CABLE/COUPLER: <u>N/A</u>	
SIZE & SHAPE: <u>1.0" Ø</u>		CABLE TYPE: <u>58</u>	
STYLE OR TYPE: <u>SPL</u>		CABLE LENGTH: <u>975'</u>	
MANUFACTURER: <u>MEGASON VS</u>		COUPLER: <u>WATER</u>	
CHANNEL #:	<u>1</u>	<u>2</u>	<u>3</u>
SERIAL NO.:	<u>90904</u>	<u>90912</u>	<u>90908</u>
FREQUENCY:	<u>2.25 MHz</u>	<u>2.25 MHz</u>	<u>2.25 MHz</u>
ANGLE/MODE:	<u>0°</u>	<u>0°</u>	<u>0°</u>
MEASURED ANGLE:	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

SCAN NUMBER	SLED ORIENT.	SCA: AREA		Recordable Indications		COMMENTS
		0°	1 To Weld	11 To Weld	Yes No	
01-013-1	1	X	N/A	N/A	N/A	
01-020-1	1	X	N/A	N/A	N/A	
01-012-1	1	X	N/A	N/A	N/A	
01-016-1	1	X	N/A	N/A	N/A	

CALIBRATION CHECKS

	Cal. RT'k	ECS	Time	Date	By
INITIAL CAL.	N/A	X	1420	10-18-89	Py
INTERMEDIATE	TARGET	N/A	1915	10-18-89	Q.P.
INTERMEDIATE					Q.P.
INTERMEDIATE					
INTERMEDIATE					
FINAL CAL.	X	N/A	0056	10-20-89	Q.P.

EXAMINERS [Signature] LEVEL II DATE 10-18-89
[Signature] LEVEL II DATE 10-18-89
 REVIEWER [Signature] DATE 10/22/89
 AUTHORIZED INSPECTOR [Signature] DATE 10/30/89

APPL
10/30/89

COMBUSTION ENGINEERING

Plant ANO-2
Comp/System RPV
Zone 1
AP&L Procedure No. 1092.21

AUTOMATED EXAMINATION ULTRASONIC CALIBRATION DATA SHEET

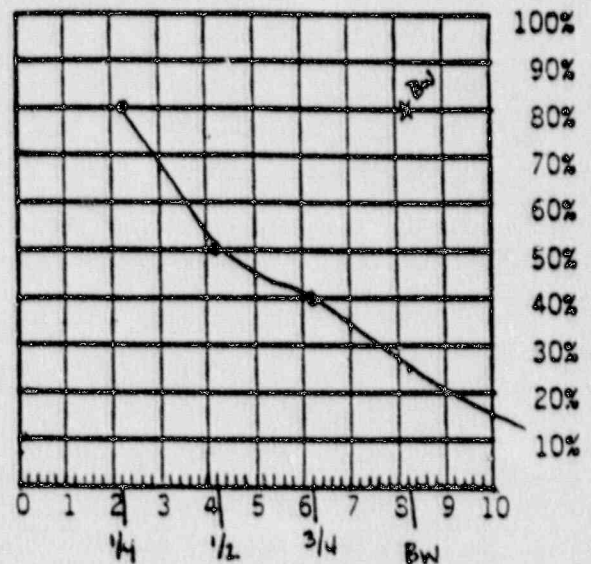
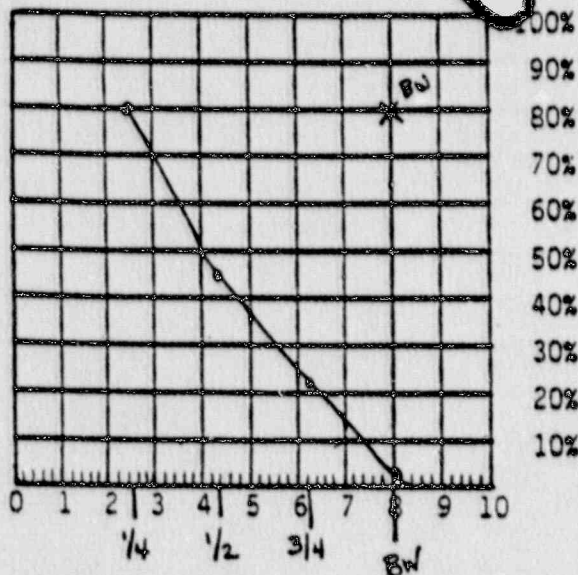
Data Pkg. No. ANO-410-002- 11
Procedure No. ANO-410-002
Rev/Change No. 2
Cal. Block No. UT-1
Surface (ID/OD) ID
Block/Comp. Temp. 78 °F / 81 °F
Page 3 of 7

INSTRUMENT SETTING

Mfg/ Model No. <u>KB-6000</u>	Sweep <u>13</u> F: <u>0.26</u>
Serial No. <u>313923</u>	Sweep <u>04</u> Mat'l Cal. <u>10.02</u>
CHNLS/RUN: <u>6</u> Rep Rate C: <u>5</u> F: min	Frequency: <u>5</u> Reject: <u>OFF</u>
Mode Select: <u>Norm / Mat'l</u>	

CHANNEL 1 Angle/Orient. 0°

CHANNEL 2 Angle/Orient. 0°



Initial Sensitivity	19	db	
Equalized Sensitivity	24/20	db	
Exam Sensitivity	24/20	db	
Screen Gated	1.4 sd to 8.5	sd	
Front Interface Signal Pos.	1.0	sd	
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
1/4T SDH	2.5	80	82
1/2T SDH	4.4	45	78
3/4T SDH	6.2	22	80
BW	8.0	80	82

Initial Sensitivity	17	db
Equalized Sensitivity	21/20	db
Exam Sensitivity	21/20	db
Screen Gated	1.4 sd to 8.5 sd	
Front Interface Signal Pos.	1.0 sd	

IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
1/4T SDH	2.2	80	80
1/2T SDH	4.2	50	80
3/4T SDH	6.2	40	80
BW	8.2	80	82

EXAMINERS 1. Conny Larson Level II Date 10/16/89 REVIEWER John R. F. Date 11/24
2. [Signature] Level II Date 10/16/89 AUTHORIZED INSPECTOR WBE Date 10/30/89

COMBUSTION ENGINEERING

Plant ANO Unit II
Comp/System RPV
one 1
APCL Procedure No. 1092.21

AUTOMATED EXAMINATION ULTRASONIC CALIBRATION DATA SHEET

Data Pkg. No. ANO-410-002-11
Procedure No. ANO-410-002
Rev/Change No. 2
Cal. Block No. UT-1
Surface (ID/OD) ID
Block/Comp. Temp. 78°F / 81°F
Page 4 of 7

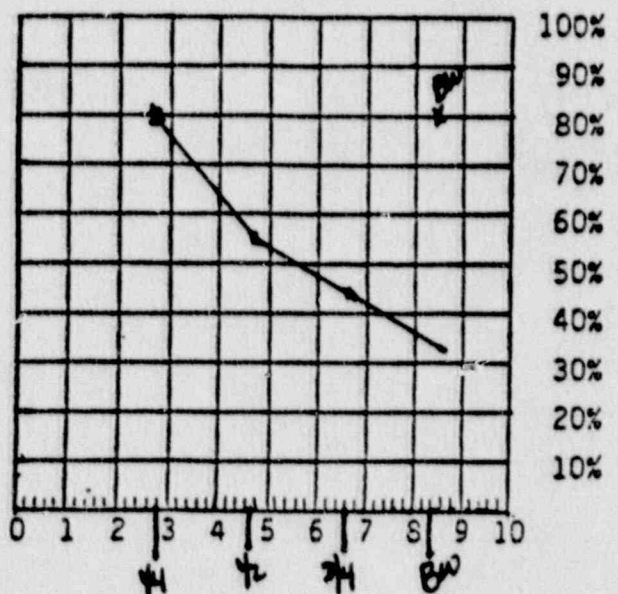
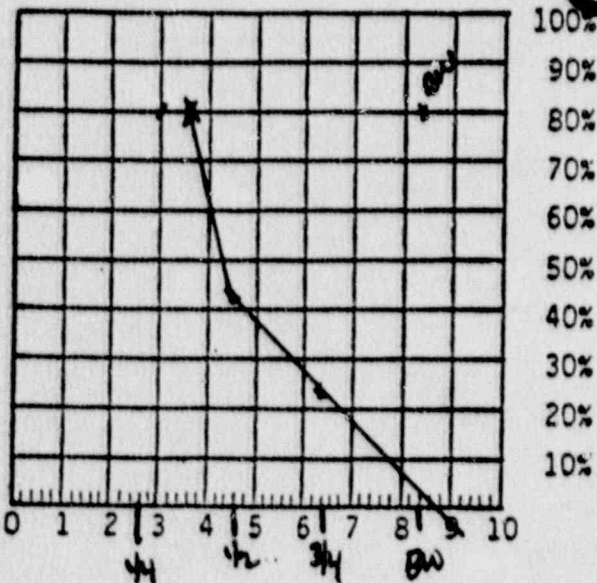
INSTRUMENT SETTING

Mfg/Model No. KB-6000
Serial No. 313923
SEE PAGE 7 OF THIS
DATA PACKAGE FOR KBI-6000 SETTINGS

Rayne APCL
10/30/89

CHANNEL 3 Angle/Orient. 0°/NA

CHANNEL 4 Angle/Orient. 0°/NA



Initial Sensitivity <u>17</u> db			
Equalized Sensitivity <u>22/20</u> db			
Exam Sensitivity <u>22/20</u> db			
Screen Gated <u>1.4</u> sd to <u>8.5</u> sd			
Front Interface Signal Pos. <u>1.0</u> sd			
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
1/4T SON	2.6	80	82
1/2T SON	4.6	42	82
3/4T SON	6.4	24	78
BW	8.2	80	80

Initial Sensitivity <u>16</u> db			
Equalized Sensitivity <u>22/20</u> db			
Exam Sensitivity <u>22/20</u> db			
Screen Gated <u>1.6</u> sd to <u>8.5</u> sd			
Front Interface Signal Pos. <u>1.0</u> sd			
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
1/4T SON	2.8	80	80
1/2T SON	4.7	55	80
3/4T SON	6.6	45	80
BW	8.4	80	80

AMINERS 1. Rayne APCL Level I Date 10-1-89 REVIEWER John B. F. Date 10/24/89
Rayne APCL Level I Date 10-1-89 AUTHORIZED INSPECTOR WBE Date 10/30/89

PSG DATA SHEET

Attached to:
Data Package No. AND-410-002-11
Page 5 of 7

CHANNEL 9 FREQ: 1.0 MHz VELOCITY: S SHAPE: N
KBI- CHNL 1 DELAY 92.0 μ s INTERVAL 24.0 μ s OUTPUT LEVEL 49.5 db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	210	162	84	48	31						
Screen Amp	80	45	22	14	9						

CHANNEL 10 FREQ: 1 MHz VELOCITY: S SHAPE: N
KBI- CHNL 2 DELAY 84.5 μ s INTERVAL 26.0 μ s OUTPUT LEVEL 52.0 db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	235	177	157	99							
Screen Amp	80	50	40	25							

CHANNEL 11 FREQ: 1 MHz VELOCITY: S SHAPE: N
KBI- CHNL 3 DELAY 92.0 μ s INTERVAL 24.0 μ s OUTPUT LEVEL 50.5 db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	182	118	73	34							
Screen Amp	80	42	24	15							

CHANNEL 12 FREQ: 1 MHz VELOCITY: S SHAPE: N
KBI- CHNL 4 DELAY 91.5 μ s INTERVAL 24.2 μ s OUTPUT LEVEL 58.0 db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	140	66	50	30							
Screen Amp	80	55	45	35							

CHANNEL FREQ: MHz VELOCITY: SHAPE:
KBI- CHNL DELAY μ s INTERVAL μ s OUTPUT LEVEL db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level											
Screen Amp											

EXAMINER [Signature] LEVEL II DATE 10-16-89
EXAMINER [Signature] LEVEL II DATE 10-16-89
REVIEWER [Signature] LEVEL III DATE 10/22/89

D-TCG DATA SHEET

Attached to:

Data Package No. ANO-410-002-11

Page 6 of 7

DTCG-CHANNEL 9 KBI-CHNL 1 PSG-CHNL 9 DELAY 23.7 μ s INTERVAL 23.7 μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	127	144	135							

EQ @ 81 % FSH KB6000 dB 84/20DTCG-CHANNEL 10 KBI-CHNL 2 PSG-CHNL 10 DELAY 80.0 μ s INTERVAL 84.3 μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128	143	127	141						

EQ @ 80 % FSH KB6000 dB 81/20DTCG-CHANNEL 11 KBI-CHNL 3 PSG-CHNL 11 DELAY 76.5 μ s INTERVAL 84.7 μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	127	144	134	135						

EQ @ 84 % FSH KB6000 dB 22/20DTCG-CHANNEL 12 KBI-CHNL 4 PSG-CHNL 12 DELAY 80.0 μ s INTERVAL 23.7 μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	122	142	131	133						

EQ @ 80 % FSH KB6000 dB 21/20DTCG-CHANNEL KBI-CHNL PSG-CHNL DELAY μ s INTERVAL μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope										

EQ @ % FSH KB6000 dB

COMMENTS

EXAMINER [Signature] LEVEL III DATE 10/16/89
 EXAMINER Carmy L. Dora LEVEL II DATE 10/16/89
 REVIEWER John H. Fly LEVEL III DATE 10/22/89
 AUTHORIZED INSPECTOR KBE DATE 10/30/89

AP&L
10/30/89

Attached to:

UT Sheet No. A40-410-002-11Page 7 of 7

ULTRASONIC EXAMINATION

AP&L Proc. No. 1092.21

SCAN LIMITATION REPORT

Supplement D

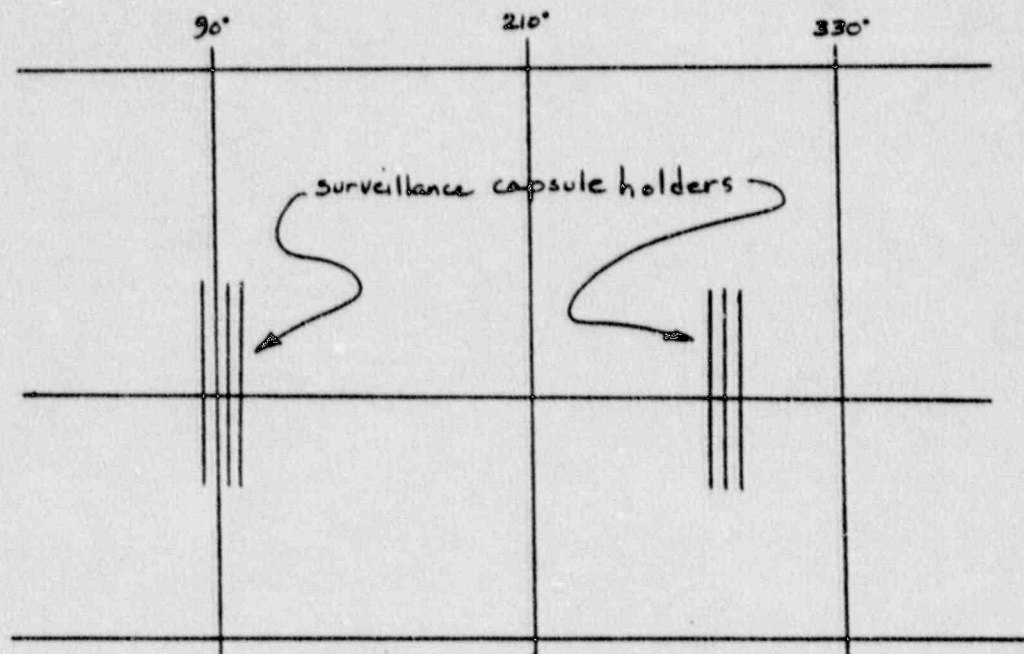
Weld Number 01-012Interfering Condition: surveillance capsule holdersSize of Interfering Condition: see "not examined" below

Distance from Weld Centerline: _____

Distance from Datum Point 0°: _____

Reference Drawing Number: E-6370-165-114 / E-234-774

Comments and Sketches: (include extent of exam coverage not completed)

Areas not examined

270.08° to 259.57° El. 14.39"

48.04° to 60.24° 16.71"

90.63° to 76.84° 18.89

290.93° to 259.57° 259.57° to 24.75° *see 01/14/89*

111.93° to 92.96° 25.96"

EXAMINER _____

LEVEL II DATE 10-22-89EXAMINER N/ALEVEL N/A DATE _____REVIEWER John R. F.LEVEL III DATE 10/29/89AUTHORIZED NUCLEAR INSPECTOR NBC/LDATE 10/30/89

APPL
10/30/89

COMBUSTION ENGINEERING

Plant/Unit ANO-2
Comp/System RPV
Zone 1
AP&L Procedure No. 1092.21

AUTOMATED EXAMINATION WELD SCAN DATA SHEET

Data Pkg. No. ANO-410-002-12
Procedure No. ANO-410-002
Rev/Change No. 2
Subject Auto UT Exam RPV Welds
Page 1 of 1

TRANSDUCER IDENTIFICATION:		CABLE/CONNECTION: <u>N/A</u>						
SIZE & SHAPE: <u>313923</u>		CABLE TYPE: <u>RG-58</u>						
STYLE OR TYPE: <u>SPL / 1mm</u>		CABLE LENGTH: <u>975'</u>						
MANUFACTURER: <u>MERASONICS / AUTO</u>		FLUID MOUNT: <u>RV WATER</u>						
SLED NO. <u>E-1SD-217-071</u>								
CHANNEL #:	1	2	3	4	5	6	7	8
SERIAL NO.:	90916	90917	90918	90901	90902	90906	90910	90905
FREQUENCY:	1.0 MHz	1.0 MHz	1.0 MHz	1.0 MHz	2.25 MHz	2.25 MHz	2.25 MHz	2.25 MHz
ANGLE/MODE:	60°	60°	45°	45°	0°	N/S	NS	NS
MEASURED ANGLE:	55°	57°	39°	39°	N/A	N/A	N/A	N/A

SCAN NUMBER	SLED ORIENT.	SCAN AREA			Recordable Indications		COMMENTS
		0°	1 To Weld	11 To Weld	Yes	No	
01-011-2	2	X	X	X	X	N/A	MIDPLATE INDICATION OBSERVED DURING SCAN ARE RECORDED ON STRIP CHART

CALIBRATION CHECKS

	Cal. RTK	ECS	Time	Date	By
INITIAL CAL.	✓	N/A	1430	10-18-89	EL
INTERMEDIATE	N/A	X	1945	10-18-89	QAD
INTERMEDIATE	N/A	X	0115	10-18-89	QAD
INTERMEDIATE					
INTERMEDIATE					
FINAL CAL.	X	N/A	0111	10-20-89	QAD

For additional calibration and data package information, see data package ANO-410-002-10

EXAMINERS: [Signature] LEVEL II DATE 10-18-89
[Signature] LEVEL II DATE 10-18-89
 REVIEWER: [Signature] DATE 10/22/89
 AUTHORIZED INSPECTOR: [Signature] DATE 10/30/89

Payne APOL
10/30/89

COMBUSTION ENGINEERING

Plant/Unit ANO-2
Comp/System RPV
Zone 1
AP&L Procedure No. 1092.21

AUTOMATED EXAMINATION WELD SCAN DATA SHEET

Data Pkg. No. ANO-410-002-13
Procedure No. ANO-410-002
Rev/Change No. 2
Subject Auto UT Exam RPV Welds
Page 1 of 8

TRANSDUCER IDENTIFICATION:		CABLE TYPE <u>N/A</u>	
SIZE & SHAPE: <u>1.0" DIA.</u>		CABLE TYPE <u>RG 58</u>	
STYLE OR TYPE: <u>SPL / 1 mm</u>		CABLE LENGTH: <u>975'</u>	
MANUFACTURER: <u>ALTECHSONICS</u>		FLUID: <u>RV WATER</u>	
CHANNEL #:	<u>1</u>	<u>2</u>	<u>4</u>
SERIAL NO.:	<u>90913</u>	<u>90918</u>	<u>54216</u>
FREQUENCY:	<u>1.0 MHz</u>	<u>1.0 MHz</u>	<u>2.85 MHz</u>
ANGLE/MODE:	<u>60°</u>	<u>60°</u>	<u>0°</u>
MEASURED ANGLE:	<u>57°</u>	<u>57°</u>	<u>N/A</u>

SCAN NUMBER	SLED ORIENT.	SCAN AREA			Recordable Indications		COMMENTS
		0°	⊥ To Weld	To Weld	Yes	No	
01-026-1	N/A	X	X	X	N/A	X	Midplate indications observed during scan are recorded on the strip chart.
01-025-1	N/A	X	X	X	N/A	X	
01-023-1	N/A	X	X	X	N/A	X	
01-022-1	N/A	X	X	X	N/A	X	
01-021-1	N/A	X	X	X	N/A	X	
01-024-1	N/A	X	X	X	N/A	X	

CALIBRATION CHECKS

	Cal. Bl'k	ECS	Time	Date	By
INITIAL CAL.	UT-1	N/A	1325	10-16-89	CT
INTERMEDIATE	UT-1	N/A	1210	10-17-89	CT
INTERMEDIATE	N/A	X	0200	10-19-89	CT
INTERMEDIATE	N/A	X	1245	10-19-89	CT
INTERMEDIATE	N/A	X	1945	10-19-89	CT
FINAL CAL.	UT-1	N/A	0100:36	10-20-89	CT

EXAMINERS: Barney L. Long LEVEL II DATE 10-16-89
John B. Felt LEVEL II DATE 10-16-89
 REVIEWER: John B. Felt UT II DATE 10/22/89
 AUTHORIZED INSPECTOR: NBEJL DATE 10/30/89

COMBUSTION ENGINEERING

Plant/Unit ANO-2
Comp/System RPV
Zone 1
AP&L Procedure No. 1092.21

AUTOMATED EXAMINATION WELD SCAN DATA SHEET

Data Pkg. No. ANO-410-002-13
 Procedure No. ANO-410-002
 Rev/Change No. 2
 Subject Auto UT Exam RPV Welds
 Page 2 of 8

TRANSDUCER IDENTIFICATION:			CABLE COUPLANT: N/A					
SIZE & SHAPE: 1.0" dia			CABLE TYPE: RG-58					
STYLE OR TYPE: SPL / 1mm			CABLE LENGTH: 975'					
MANUFACTURER: MEGASONICS			COUPLANT: RV WATER					
CHANNEL #:	1	2	3	4	5	6	7	8
SERIAL NO.:	90913	90917	687088	687089	54217			
FREQUENCY:	1.0 MHz	1.0 MHz	1.0 MHz	1.0 MHz	2.25 MHz			
ANGLE/MODE:	60°	60°	45°	45°	0°			
MEASURED ANGLE:	57°	57°	37°	39°	N/A			

[illegible]

CALIBRATION CHECKS

	Cal. Blk	ECS	Time	Date	By
INITIAL CAL.	N/A	N/A	N/A	N/A	N/A
INTERMEDIATE	N/A	X	01:58	10-20-89	<i>[Signature]</i>
INTERMEDIATE	N/A	X	05:23	10-20-89	<i>[Signature]</i>
INTERMEDIATE	N/A	X	17:15	10-20-89	RMR
INTERMEDIATE	N/A	N/A	N/A	N/A	N/A
FINAL CAL	UT-1	N/A	17:55	10-20-89	RMR

EXAMINERS 1 [Signature] LEVEL II DATE 10-28-89
2 Carey L. [Signature] LEVEL III DATE 10-30-89
REVIEWER John R. [Signature] UT III DATE 10/22/89
AUTHORIZED INSPECTOR NBCI DATE 10/30/89

COMBUSTION ENGINEERING

Plant ANO-2
Comp/System RPV
Zone 1
AP&L Procedure lb. 1092.21

AUTOMATED EXAMINATION ULTRASONIC CALIBRATION DATA SHEET

Data Pkg. No. ANO-410-002-13
Procedure No. ANO-410-002
Rev/Change No. 2
Cal. Block No. UT-2
Surface (ID/OD) ID
Block/Comp. Temp. 78°F / 81°F
Page 3 of 8

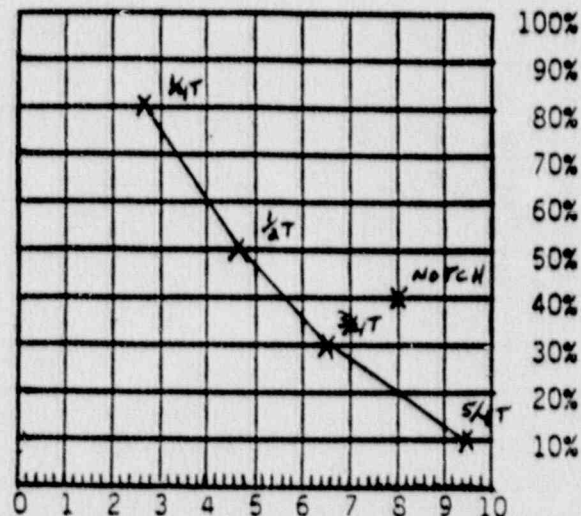
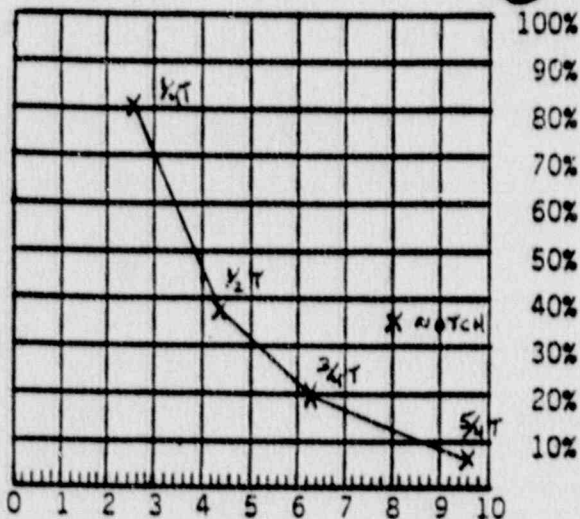
INSTRUMENT SETTING

RACK + PINION SLED

Mfg/ Model No. <u>KB-6000</u>	Sweep
Serial No. <u>313923</u>	Delay C: <u>10</u> F: <u>2.34</u>
CHNLS/RUN: <u>6</u> Rep Rate C: <u>5</u> F: <u>MIN</u>	Sweep
Mode Select: <u>NORM / MAT'L</u>	Range <u>10</u> TWS: <u>18</u> Mat'l Cal. <u>4.24</u>
	Frequency <u>1.0</u> MHz Reject: <u>OFF</u>

CHANNEL 1 Angle/Orient. 60°

CHANNEL 2 Angle/Orient. 60°



Initial Sensitivity		20	db
Equalized Sensitivity		27/20	db
Exam Sensitivity		27/20	db
Screen Gated		1.5	sd to 8.8 sd
Front Interface Signal Pos.		.8	sd
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
1/4T SDH	2.6	80	80
1/2T SDH	4.4	38	83
3/4T SDH	6.2	20	79
NOTCH	8.0	35	83
5/4T SDH	9.6	5	82

Initial Sensitivity	15 db
Equalized Sensitivity	22/20 db
Exam Sensitivity	22/20 db
Screen Gated	1.5 sd to 8.8 sd
Front Interface Signal Pos.	.8 sd

IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
1/4T SDH	2.6	80	78
1/2T SDH	4.6	50	81
3/4 T SDH	6.5	30	78
NOTCH	8.0	40	80
5/4T SDH	9.5	10	77

EXAMINERS 1. Carrey La Roche Level II Date 10/16/89 REVIEWER John B. F. Utter Date 10/16/89
2. [Signature] Level II Date 10/16/89 AUTHORIZED INSPECTOR NBC Date 10/30/89

Raymond A. Puc 10/30/89
COMBUSTION ENGINEERING

Plant ANO-2
Comp/System RPV
Zone 1
AP&L Procedure Ib. 1092.21

**AUTOMATED EXAMINATION
ULTRASONIC CALIBRATION
DATA SHEET**

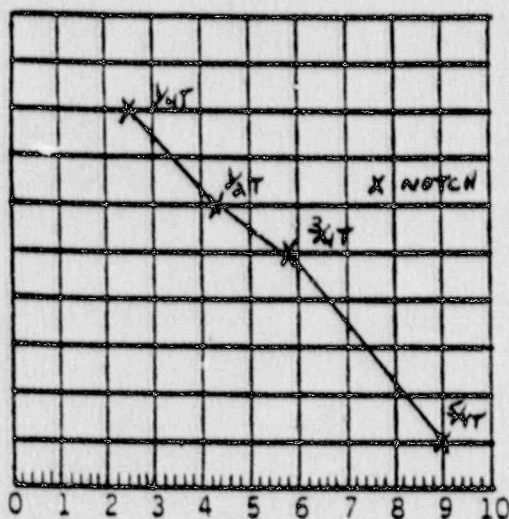
Data Pkg. No. ANO-410-002-13
Procedure No. ANO-410-002
Rev/Change No. 2
Cal. Block No. UT-1
Surface (ID/OD) ID
Block/Comp. Temp. 78 °F / 81 °F
Page 4 of 8

INSTRUMENT SETTING * SEE PAGE 3

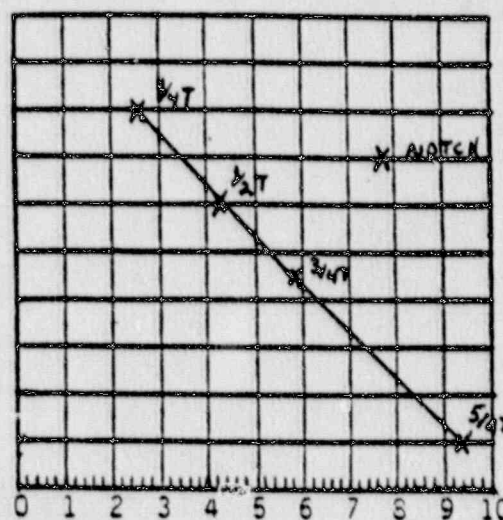
Mfg/ Model No. <u>KB-6000</u>	Sweep Delay <u> </u> TWS: <u> </u> F: <u> </u>
Serial No. <u> </u>	Rep Rate C: <u> </u> F: <u> </u> TWS: <u> </u> Mat'l Cal. <u> </u>
CHNLS/RUN: <u> </u>	Mode Select: <u> </u> Reject: <u> </u>

CHANNEL 3 Angle/Orient. 45

CHANNEL 4 Angle/Orient. 45



100%
90%
80%
70%
60%
50%
40%
30%
20%
10%



100%
90%
80%
70%
60%
50%
40%
30%
20%
10%

Initial Sensitivity	31 db
Equalized Sensitivity	38/20db
Exam Sensitivity	38/20 db
Screen Gated	1.5 sd to 9.2 sd
Front Interface Signal Pos.	.6 sd

IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
1/4T SDH	2.4	80	81
1/2T SDH	4.2	60	83
3/4T SDH	5.8	50	83
NOTCH	7.6	65	84
5/4T SDH	9.0	10	82

Initial Sensitivity	26 db
Equalized Sensitivity	33/20 db
Exam Sensitivity	33/20 db
Screen Gated	1.5 sd to 9.2 sd
Front Interface Signal Pos.	.8 sd

IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
1/4T SDH	2.5	80	78
1/2T SDH	4.2	60	81
3/4T SDH	5.8	45	80
NOTCH	7.6	70	83
5/4T SDH	9.3	10	79

EXAMINERS 1. Carney To Day Level II Date 10-16-89 REVIEWER John H. F. UT III Date 10/20/89
2. [Signature] Level II Date 10-16-89 AUTHORIZED INSPECTOR NBCL Date 10/30/89

COMBUSTION ENGINEERING

Plant AND-2
Comp/System RPV
Zone 1
AP&L Procedure Ib. 1092.21

AUTOMATED EXAMINATION ULTRASONIC CALIBRATION DATA SHEET

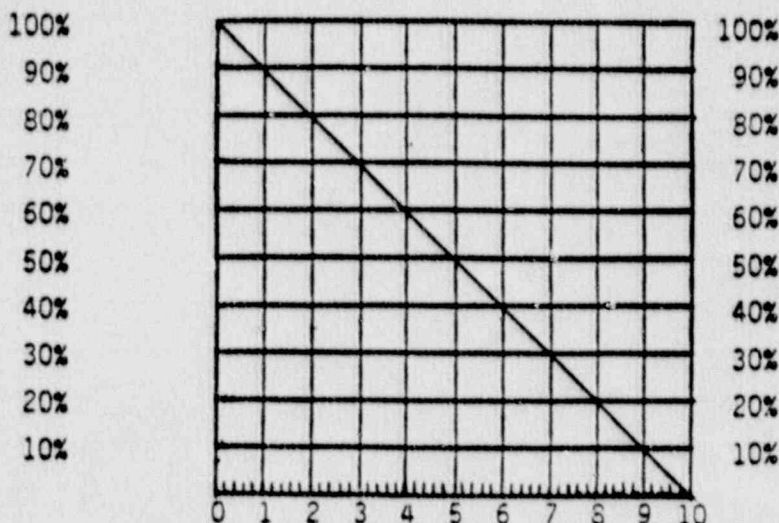
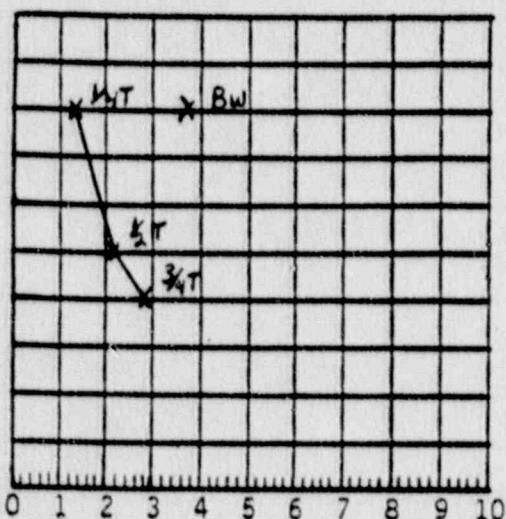
Data Pkg. No. AND-410-002-13
Procedure No. AND-410-002
Rev/Change No. 2
Cal. Block No. UT-1
Surface (ID/OD) ID
Block/Comp. Temp. 28 °F / 81 °F
Page 5 of 8

INSTRUMENT SETTING * SEE PAGE 3

Mfg/ Model No. <u>KB-6000</u>	Sweep Delay: <u> </u> TWS: <u> </u> F: <u> </u>
Serial No. <u> </u>	Rep Rate C: <u> </u> F: <u> </u> TWS: <u> </u> Mat'l Cal. <u> </u>
Mode Select: <u> </u>	Frequency: <u> </u> Reject: <u> </u>

* KB @ 2.25 MHz

CHANNEL 5 Angle/Orient. 0 CHANNEL Angle/Orient.



Initial Sensitivity <u>19</u> db			
Equalized Sensitivity <u>24/20</u> db			
Exam Sensitivity <u>24/20</u> db			
Screen Gated <u>2.0</u> sd to <u>7.5</u> sd			
Front Interface Signal Pos. <u>.7</u> sd			
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
1/4T SDH	1.4	80	77
1/2T SDH	2.1	50	78
3/4T SDH	2.8	40	79
BW	3.6	80	80

Initial Sensitivity <u> </u> db			
Equalized Sensitivity <u> </u> db			
Exam Sensitivity <u> </u> db			
Screen Gated <u> </u> sd to <u> </u> sd			
Front Interface Signal Pos. <u> </u> sd			
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %

EXAMINERS 1. Carey P. Dora Level II Date 10-16-89 REVIEWER John R. F. Form Date 10/20/89
2. Level Date 10-16-89 INSPECTOR WBC Date 10/30/89

RACK + PINION SLED

Attached to:

Data Package No. ANO-410-002-13

COMBUSTION ENGINEERING
POWER SYSTEMS GROUP
AP&L Procedure No. 1092.21

PSG DATA SHEET

Page 6 of 8

CHANNEL 1 FREQ: 1 MHz VELOCITY: S SHAPE: N

KBI- CHNL 1 DELAY 107.0 μ s INTERVAL 57.0 μ s OUTPUT LEVEL 34.0 db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	215	95	32	1							N/A
Screen Amp	80	38	20	10							98%

CHANNEL 2 FREQ: 1 MHz VELOCITY: S SHAPE: N

KBI- CHNL 2 DELAY 107.0 μ s INTERVAL 56.0 μ s OUTPUT LEVEL 40.0 db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	222	142	70	33	11						N/A
Screen Amp	80	50	30	20	10						95%

CHANNEL 3 FREQ: 1 MHz VELOCITY: S SHAPE: N

KBI- CHNL 3 DELAY 104.0 μ s INTERVAL 53.0 μ s OUTPUT LEVEL 20.5 db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	223	170	140	73	11						
Screen Amp	80	60	50	30	10						94%

CHANNEL 4 FREQ: 1 MHz VELOCITY: S SHAPE: N

KBI- CHNL 4 DELAY 103.0 μ s INTERVAL 55.5 μ s OUTPUT LEVEL 27.5 db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	212	159	108	39	11						
Screen Amp	80	60	45	25	10						95%

CHANNEL 5 FREQ: 1 MHz VELOCITY: S SHAPE: N

KBI- CHNL 5 DELAY 101.0 μ s INTERVAL 23.4 μ s OUTPUT LEVEL 37.5 db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	216	142	112	80							N/A
Screen Amp	80	50	40	30							96%

EXAMINER Caray Ladoja LEVEL II DATE 10-16-89
EXAMINER [Signature] LEVEL II DATE 10-16-89
REVIEWER Mark F. Ute LEVEL III DATE 10/22/89

COMBUSTION ENGINEERING

AP&L Procedure No. 1092.21

Rack + Pinion SLED

D-TCG DATA SHEET

Attached to:

Data Package No. ANO-410-002-13

Page 7 of 8

DTCG-CHANNEL 1 KBI- CHNL 1 PSG-CHNL 1 DELAY 84.0 μ s INTERVAL 42.0 μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	127	128	134	131	136					

EQ @ 80 % FSH KB6000 dB 27/20DTCG-CHANNEL 2 KBI- CHNL 2 PSG-CHNL 2 DELAY 57.2 μ s INTERVAL 57.6 μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	127	136	132	131	132					

EQ @ 78 % FSH KB6000 dB 22/20DTCG-CHANNEL 3 KBI- CHNL 3 PSG-CHNL 3 DELAY 57.0 μ s INTERVAL 54.0 μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128	134	130	133	134					

EQ @ 80 % FSH KB6000 dB 38/20DTCG-CHANNEL 4 KBI- CHNL 4 PSG-CHNL 4 DELAY 57.7 μ s INTERVAL 56.2 μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128	134	131	133	132					

EQ @ 79 % FSH KB6000 dB 33/20DTCG-CHANNEL 5 KBI- CHNL 5 PSG-CHNL 5 DELAY 82.0 μ s INTERVAL 24.0 μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128	144	130	137						

EQ @ 84 % FSH KB6000 dB 25/20

COMMENTS

EXAMINER Carey L. Laha LEVEL II DATE 10-16-89
 EXAMINER Carey L. Laha LEVEL II DATE 10-16-89
 REVIEWER John H. Ff LEVEL II DATE 10/22/89
 AUTHORIZED INSPECTOR NBE DATE 10/30/89

Payne APAC
10/30/89

Attached to:

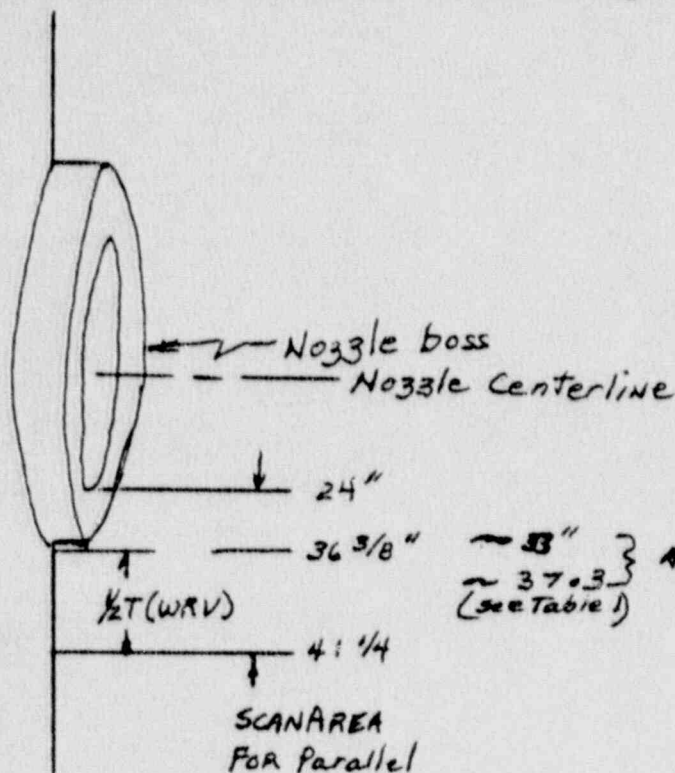
UT Sheet No. AN0-40-002-13Page 8 of 8AP&L Proc. No. 1092.21

ULTRASONIC EXAMINATION SCAN LIMITATION REPORT

Supplement D

Weld Number 01-030 ; 01-024Interfering Condition: No 33/e BossSize of Interfering Condition: See Dwg. BelowDistance from Weld Centerline: See Dwg. BelowDistance from Datum Point 0°: See Dwg. BelowReference Drawing Number: 234 - 755 Rev 4 (CE Dwg.)

Comments and Sketches: (include extent of exam coverage not completed)



SCAN AREA
FOR Parallel
EXAM of
No 33/e To-Shell Weld

Area of Scan Limitation
~ 3" }
~ 37.3" }
(see Table 1)

CH #	Weld 21	Weld 24
1	37.24"	36.47
2	37.28	36.52
3	37.30	36.54
4	37.30	36.54
5	38.14	37.38

EXAMINER

Carly L. Lora

LEVEL IFDATE 10/22/89

EXAMINER

N/A

LEVEL N/ADATE N/A

REVIEWER

John R. Ff

LEVEL TUDATE 10/22/89

AUTHORIZED NUCLEAR INSPECTOR

14362

DATE 10/30/89

*Red Done APOL
10/30/89*

COMBUSTION ENGINEERING

Plant/Unit AND-2
Comp/System RPV
Zone 1
AP&L Procedure No. 1092.21

AUTOMATED EXAMINATION WELD SCAN DATA SHEET

Data Pkg. No. AND-410-002-14
Procedure No. AND-410-002
Rev/Change No. 2
Subject Auto UT Exam RPV Welds
Page 1 of 5

TRANSDUCER IDENTIFICATION:		CABLE/CON. ANT. <u>N/A</u>	
SIZE & SHAPE: <u>1.5" Ø / 1.0" Ø</u>		CABLE TYPE: <u>MS 58</u>	
STYLE OR TYPE: <u>VIP / IMM.</u>		CABLE LENGTH: <u>975'</u>	
MANUFACTURER: <u>PARAMETRICS / MEASUREMENTS</u>		COUPLANT: <u>RY WATER</u>	
CHANNEL #:	<u>1R AT Z</u>	<u>3</u>	<u>4</u>
SERIAL NO.:	<u>54118 90909</u>	<u>5</u>	<u>6</u>
FREQUENCY:	<u>2.25 MHz</u>	<u>7</u>	<u>8</u>
ANGLE/MODE:	<u>NS N/S</u>		
MEASURED ANGLE:	<u>N/A N/A</u>		

SCAN NUMBER	SLED ORIENT.	SCAN AREA			Recordable Indications		COMMENTS
		0°	LT To Weld	RT To Weld	Yes	No	
01-027-1	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>	
01-028-1	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>	
01-029-1	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>	
01-030-1	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>	
01-031-1	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>	
01-032-1	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>	

CALIBRATION CHECKS

	Cal. 81°K	ECS	Time	Date	By
INITIAL CAL.	<input checked="" type="checkbox"/>	N/A	2250	10/20/89	<i>[Signature]</i>
INTERMEDIATE	N/A	<input checked="" type="checkbox"/>	2352	10/20/89	<i>[Signature]</i>
INTERMEDIATE	N/A	<input checked="" type="checkbox"/>	1120	10/21/89	<i>[Signature]</i>
INTERMEDIATE					
INTERMEDIATE					
FINAL CAL.	<input checked="" type="checkbox"/>	N/A	1710	10/21/89	<i>RmR</i>

EXAMINERS *[Signature]* LEVEL II DATE 10/20/89
2 Carey La Joy LEVEL II DATE 10/20/89
 REVIEWER *[Signature]* DATE 10/22/89
 AUTHORIZED INSPECTOR *[Signature]* DATE 10/30/89

Page AP&L
10/30/89

COMBUSTION ENGINEERING

Plant ANO-2
Comp/System RPV
Zone 1
AP&L Procedure Ib. 1092.21

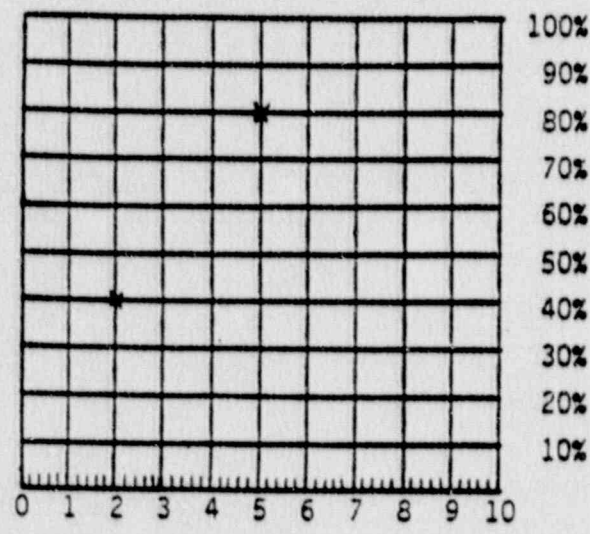
AUTOMATED EXAMINATION
ULTRASONIC CALIBRATION
DATA SET

Data Pkg. No. ANO-410-002-14
Procedure No. ANO-410-002
Rev/Change No. 2
Cal. Block No. UTB/UT9
Surface (ID/OD) ID
Block/Comp. Temp. 78 °F / 82 °F
Page 2 of 5

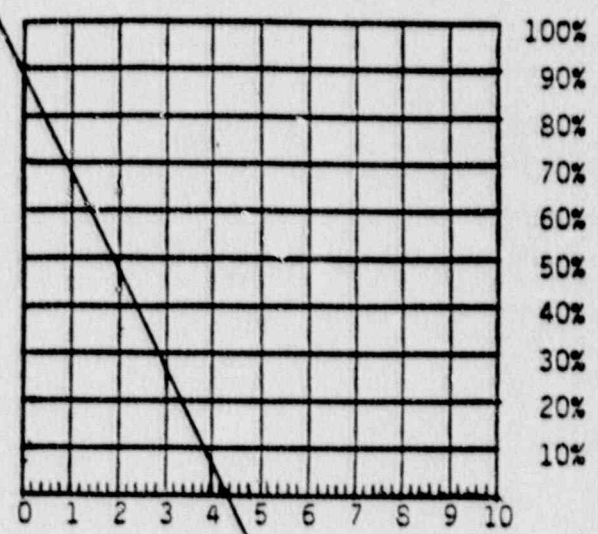
INSTRUMENT SETTING

Mfg/ Model No.	KB-6000
Serial No.	313923
CHNLS/RUN: 3 Rep Rate C: 4	F: 1.14 Sweep Range <u>long</u> / <u>H</u> ; TWS: 12 Mat'l Cal. 9.11
Mode Select: <u>NORM</u> / <u>MATL</u>	Frequency: <u>2.25 MHz</u> Reject: <u>OFF</u>
Sweep Channel # <u>1</u>	

CHANNEL 3 Angle/Orient. NS/NA



CHANNEL _____ Angle/Orient. _____



Initial Sensitivity <u>36</u> db			
Equalized Sensitivity <u>20/41</u> db			
Exam Sensitivity <u>20/41</u> db			
Screen Gated <u>2.0</u> sd to <u>5.5</u> sd			
Front Interface Signal Pos. <u>N/A</u> sd			
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
2" Notch	2.0	40	N/A
5" Notch	5.0	80	80
NO DB DIFFERENCE NOTED BETWEEN UT-8 AND UT-9			

Initial Sensitivity _____ db			
Equalized Sensitivity _____ db			
Exam Sensitivity _____ db			
Screen Gated _____ sd to _____ sd			
Front Interface Signal Pos. _____ sd			
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %

EXAMINERS 1. Carney L. Hop Level I Date 10/30/89 REVIEWER John R. H. Voss Date 10/30/89
James E. ... Level II Date 10/30/89 AUTHORIZED INSPECTOR NBC Date 10/30/89

COMBUSTION ENGINEERING
POWER SYSTEMS GROUP
 AP&L Procedure No. 1092.21

AP&L
10/30/89
NBEL-ANTI
10/30/89

PSG DATA SHEET

E-350-217-108

Attached to:
 Data Package No. ANO-410-002-14
 Page 3 of 5

CHANNEL 3 FREQ: 1.0 MHz VELOCITY: N SHAPE: N
 KBI- CHNL 3 DELAY 6.5 μ s INTERVAL 82.5 μ s OUTPUT LEVEL 20.5 db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level	0	235									
Screen Amp	0	80									

CHANNEL ☐ FREQ: ☐ MHz VELOCITY: ☐ SHAPE: ☐
 KBI- CHNL ☐ DELAY ☐ μ s INTERVAL ☐ μ s OUTPUT LEVEL ☐ db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level											
Screen Amp											

CHANNEL ☐ FREQ: ☐ MHz VELOCITY: ☐ SHAPE: ☐
 KBI- CHNL ☐ DELAY ☐ μ s INTERVAL ☐ μ s OUTPUT LEVEL ☐ db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level											
Screen Amp											

CHANNEL ☐ FREQ: ☐ MHz VELOCITY: ☐ SHAPE: ☐
 KBI- CHNL ☐ DELAY ☐ μ s INTERVAL ☐ μ s OUTPUT LEVEL ☐ db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level											
Screen Amp											

CHANNEL ☐ FREQ: ☐ MHz VELOCITY: ☐ SHAPE: ☐
 KBI- CHNL ☐ DELAY ☐ μ s INTERVAL ☐ μ s OUTPUT LEVEL ☐ db

Echo #	0	1	2	3	4	5	6	7	8	9	Ref Echo
Echo Level											
Screen Amp											

EXAMINER [Signature] LEVEL II DATE 10/20/89
 EXAMINER [Signature] LEVEL II DATE 10/20/89
 REVIEWER [Signature] LEVEL III DATE 10/22/89

COMBUSTION ENGINEERING

AP&L Procedure No. 1092.21

E-250-217-108

D. D. Payne A. Pol
10/30/89

Attached to:

Data Package No. ANO-410-002-14

Page 4 of 5

D-TCG DATA SHEET

DTCC-CHANNEL ☒ KBI-CHNL ☒ PSG-CHNL ☒ DELAY μ s INTERVAL μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope	128									

EQ @ 80 % FSH KB6000 dB 20/41DTCC-CHANNEL ☐ KBI-CHNL ☐ PSG-CHNL ☐ DELAY μ s INTERVAL μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope										

EQ @ % FSH KB6000 dB DTCC-CHANNEL ☐ KBI-CHNL ☐ PSG-CHNL ☐ DELAY μ s INTERVAL μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope										

EQ @ % FSH KB6000 dB DTCC-CHANNEL ☐ KBI-CHNL ☐ PSG-CHNL ☐ DELAY μ s INTERVAL μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope										

EQ @ % FSH KB6000 dB DTCC-CHANNEL ☐ KBI-CHNL ☐ PSG-CHNL ☐ DELAY μ s INTERVAL μ s

Slope #	0	1	2	3	4	5	6	7	8	9
Slope										

EQ @ % FSH KB6000 dB

COMMENTS

EXAMINER [Signature] LEVEL I DATE 10/20/89
 EXAMINER [Signature] LEVEL I DATE 10/20/89
 REVIEWER [Signature] LEVEL II DATE 10/22/89
 AUTHORIZED INSPECTOR 14361 DATE 10/30/89

Page APOL
10/30/89

COMBUSTION ENGINEERING

Plant/Unit ANO-2
AP&L Procedure No. 1092.21

KB-6000

Data Pkg. No. ANO-410-002-14
Procedure No. ANO-410-002
Rev/Change No. 2
Page 5 of 5

Daily

AUTOMATED EXAMINATION CALIBRATION CHECK SHEET

CHANNEL 2

CHANNEL

CHANNEL

INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE					
Amplitude						Amplitude						Amplitude					
High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low		
1	100	50	5	50	24	1	100	50	5	50	24	1	100	50	5		
2	80	38	6	40	18	2	80	38	6	40	18	2	80	38	6		
3	70	34	7	30	14	3	70	34	7	30	14	3	70	34	7		
4	60	28	8	20	8	4	60	28	8	20	8	4	60	28	8		
AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY					
Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	Result
80	-6	40	80	-6	40	80	-6	40	80	-6	40	80	-6	40	80	-6	40
80	-12	20	80	-12	20	80	-12	20	80	-12	20	80	-12	20	80	-12	20
40	+6	82	40	+6	82	40	+6	82	40	+6	82	40	+6	82	40	+6	82
20	+12	84	20	+12	84	20	+12	84	20	+12	84	20	+12	84	20	+12	84
CHANNEL						CHANNEL						CHANNEL					
INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE						INSTR. LINEARITY RESPONSE					
Amplitude						Amplitude						Amplitude					
High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low		
1			5			1			5			1			5		
2			6			2			6			2			6		
3			7			3			7			3			7		
4			8			4			8			4			8		
AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY						AMPL. CONTROL LINEARITY					
Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	Result	Initial	A db	Result
80	-6		80	-6		80	-6		80	-6		80	-6		80	-6	
80	-12		80	-12		80	-12		80	-12		80	-12		80	-12	
40	+6		40	+6		40	+6		40	+6		40	+6		40	+6	
20	+12		20	+12		20	+12		20	+12		20	+12		20	+12	

EXAMINER Larry La Dora LEVEL II DATE 10/21/89
EXAMINER [Signature] LEVEL II DATE 10/21/89
REVIEWER [Signature] LEVEL III DATE 10/20/89
AUTHORIZED INSPECTOR NBE DATE 10/30/89

APPL
10/30/89

COMBUSTION ENGINEERING

Plant/Unit ANO-2
Comp/System RPV
Zone 1
AP&L Procedure No. 1092.21

AUTOMATED EXAMINATION
WELD SCAN DATA SHEET

Data Pkg. No. ANO-410-003-1
Procedure No. ANO-410-003
Rev/Change No. 2
Subject RV To Flange Weld From Flange
Mating Surface
Page 1 of 3

TRANSDUCER IDENTIFICATION:				CABLE/COUPLANT: <u>N/A</u>			
SIZE & SHAPE: <u>1.0" DIA</u>				CABLE TYPE: <u>RG 42 A/U</u>			
STYLE OR TYPE: <u>SPL</u>				CABLE LENGTH: <u>100'</u>			
MANUFACTURER: <u>MEGASONICS</u>				COUPLANT: <u>DI WATER</u>			
CHANNEL #:	1	2	3	4	5	6	7
SERIAL NO.:	<u>687087</u>	<u>687084</u>	<u>687086</u>	<u>40816</u>			
FREQUENCY:	<u>2.25</u>	<u>2.25</u>	<u>2.25</u>	<u>2.25</u>			
ANGLE/MODE:	<u>13.5°</u>	<u>10°</u>	<u>6°</u>	<u>3.5°</u>			
MEASURED ANGLE:	<u>13°</u>	<u>10°</u>	<u>5°</u>	<u>3°</u>			

SCAN NUMBER	SLED ORIENT.	SCAN AREA			Recordable Indications		COMMENTS
		0°	I To Weld	II To Weld	Yes	No	
01-020-2	N/A	N/A	X	N/A	N/A	X	100% OF THE FLANGE-TO-SHELL WELD. EXAMINED FROM STUD HOLE #1 THRU STUD HOLE #54

CALIBRATION CHECKS

	Cal. Bl'k	ECS	Time	Date	By
INITIAL CAL.	UT-7	N/A	1240	10-8-89	EL
INTERMEDIATE					
INTERMEDIATE					
INTERMEDIATE					
INTERMEDIATE					
FINAL CAL.	UT-7	N/A	1415	10-8-89	EL

EXAMINERS 1 Carney La Rosa LEVEL II DATE 10-8-89
2 R.A. Mubabali LEVEL II DATE 10-8-89
REVIEWER _____ DATE _____
AUTHORIZED INSPECTOR NBC DATE 10/30/89

220 Page A PK
10/30/89

COMBUSTION ENGINEERING

Plant ANO-2
Comp/System RPV
Zone 1
APSL Procedure Ib. 1092.21

AUTOMATED EXAMINATION
ULTRASONIC CALIBRATION

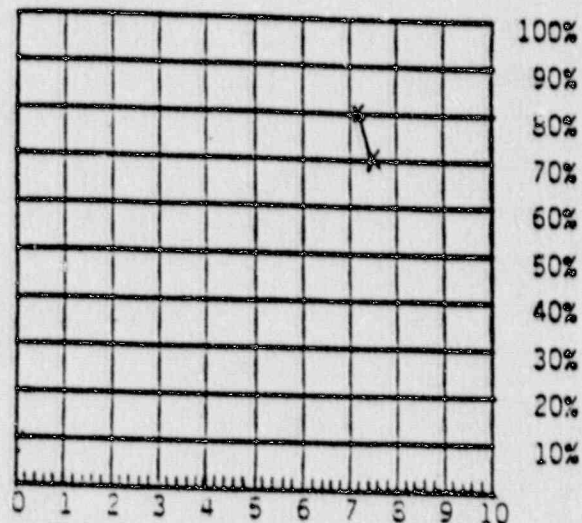
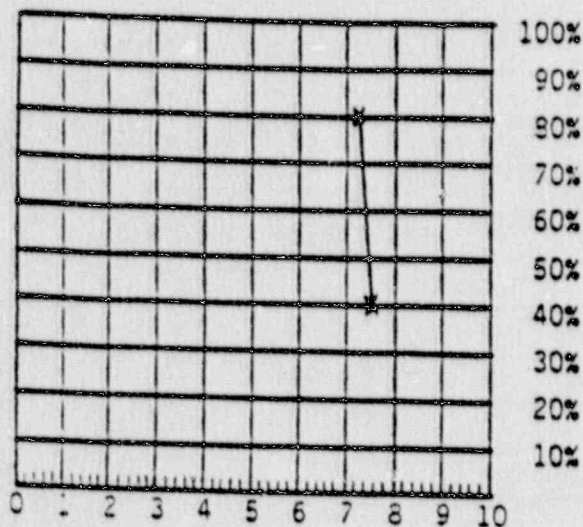
Data Pkg. No. ANO-410-003-1
Procedure No. ANO-410-003
Rev/Change No. 2
Cal. Block No. UT-7
Surface (ID/OD) ID
Block/Comp. Temp. 75°F / 90°F
Page 2 of 3

INSTRUMENT SETTING

Mfr/Model No. <u>KB-6000</u>	Sweep
Serial No. <u>311344</u>	Delay C: <u>Hi</u> TWS: <u>01</u> F: <u>0:00</u>
CHNLS/RUN: <u>4</u> Rep Rate C: <u>4</u> <u>5:12:00</u>	Sweep
Mode Select: <u>NORM/MAT'L</u>	Range <u>Hi</u> <u>15</u> HWTWS: <u>18</u> Mat'l Cal. <u>2.84</u>
	Frequency: <u>2.25</u> Reject: <u>OFF</u>

CHANNEL 1 Angle/Orient. 13.5°

CHANNEL 2 Angle/Orient. 10°



Initial Sensitivity	46	db	
Equalized Sensitivity	N/A	db	
Exam Sensitivity	52	db	
Screen Gated	N/A	sd to N/A sd	
Front Interface Signal Pos.	N/A	sd	
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
28.5" SDH	7.2	80	N/A
29.25" SDH	7.5	40	N/A

Initial Sensitivity	46	db
Equalized Sensitivity	N/A	db
Exam Sensitivity	52	db
Screen Gated	N/A	sd to N/A sd
Front Interface Signal Pos.	N/A	sd

IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
28.5" SDH	7.2	80	N/A
29.25" SDH	7.5	70	N/A

EXAMINERS 1. Casey L. Loya Level II Date 10-8-89

2. PA. M. M. M. M. Level II Date 10-8-89

REVIEWER _____ Date _____
AUTHORIZED INSPECTOR NBCI Date 10/30/89

Rayne April
10/30/89

COMBUSTION ENGINEERING

Plant ANO-2
Comp/System RPV
Zone 1
AP&L Procedure Ib. 1092.21

AUTOMATED EXAMINATION
ULTRASONIC CALIBRATION

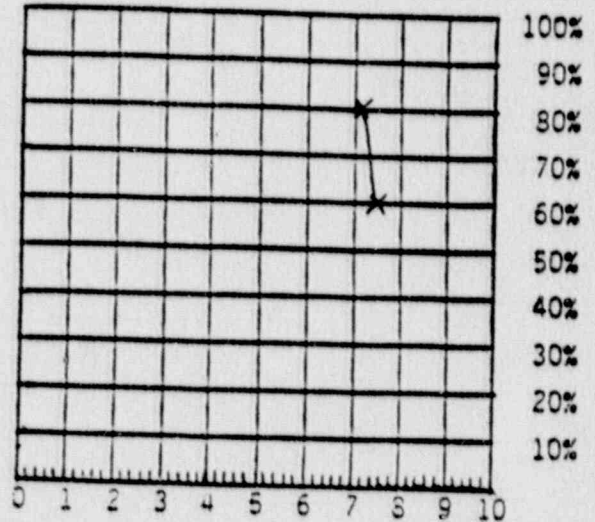
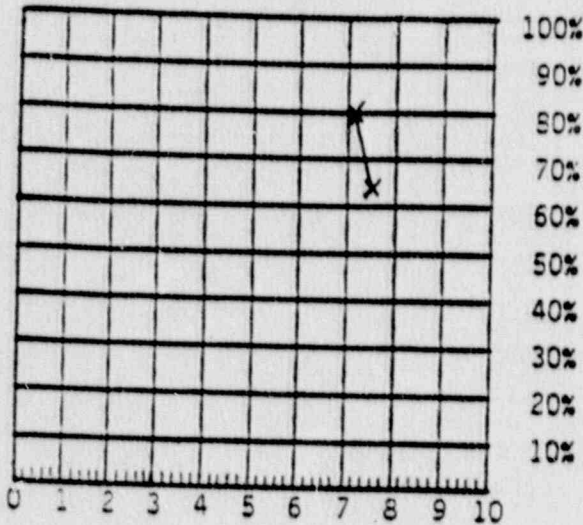
Data Pkg. No. ANO-410-003-1
Procedure No. ANO-410-003
Rev/Change No. 2
Cal. Block No. UT-7
Surface (ID/OD) ID
Block/Comp. Temp. 75°F / 90°F
Page 3 of 3

INSTRUMENT SETTING

Mfr/ Model No. <u>KB-6000</u>	Sweep
Serial No. <u>311344</u>	Delay C: <u>Hi</u> TWS: <u>01</u> F: <u>0.00</u>
CHNLS/RUN: <u>4</u> Rep Rate C: <u>4</u> F: <u>4</u>	Sweep
Mode Select: <u>Norm/MAT'L</u>	Range <u>Hi</u> 15 Hear TWS: <u>18</u> Mat'l Cal. <u>2.84</u>
	Frequency: <u>2.25</u> Reject: <u>OFF</u>

CHANNEL 3 Angle/Orient. 6°

CHANNEL 4 Angle/Orient. 3.5°



Initial Sensitivity		44 db	
Equalized Sensitivity		N/A db	
Exam Sensitivity		50 db	
Screen Gated		N/A sd to N/A sd	
Front Interface Signal Pos.		N/A sd	
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
28.5° SDH	7.1	80	N/A
29.25° SDH	7.4	66	N/A

Initial Sensitivity		43 db	
Equalized Sensitivity		N/A db	
Exam Sensitivity		49 db	
Screen Gated		N/A sd to N/A sd	
Front Interface Signal Pos.		N/A sd	
IDENT	Sweep Pos	Initial Ampl %	Equalized Ampl %
28.5° SDH	7.1	80	N/A
29.25° SDH	7.4	60	N/A

EXAMINERS 1. Caney to Lopez Level II Date 10-8-89

2. RA Michalski Level II Date 10-8-89

REVIEWER _____ Date _____
AUTHORIZED INSPECTOR NBEL Date 10/30/89

COMBUSTION ENGINEERING

Raymond A. P. L.
10/30/89

Plant/Unit AND-2
Comp/System RPV
Zone 1
Contract No. 4678

ULTRASONIC CALIBRATION DATA SHEET

AP&L PROC. No. 1002.006

UT No. 4678-ISI-005-1
Procedure No. 4678-ISI-005 Rev. 1
ST No. N/A Rev. N/A
Cal. Block No. UT-7
Surface (ID/DD) Flange Surface
Block/Comp. Temp 75 °F / 90 °F

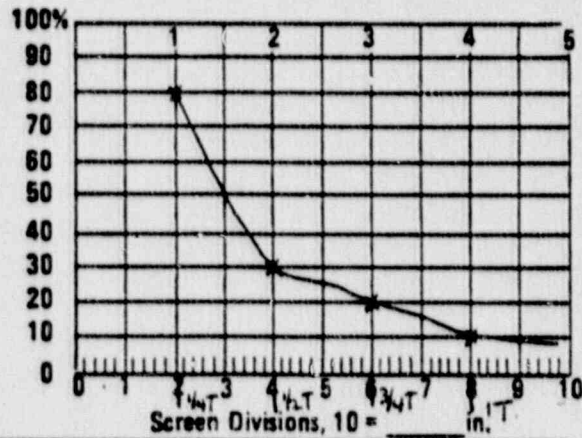
SEARCH UNIT	
Scan Angle: <u>0°</u>	Mode: <u>Long</u>
Fixturing (if any): <u>N/A</u>	
Size & Shape: <u>1.0" Diameter</u>	
Frequency: <u>2.25 MHz</u>	
Serial No./Brand: <u>P59832/Parametrics</u>	
Measured Angle: <u>0°</u>	
Cable Type & Length: <u>R650A/4 / 100'</u>	
Couplant Brand: <u>DI Water</u>	
Couplant Batch: <u>N/A</u>	

SEARCH AREA	
1 To Weld	<u>N/A</u>
11 To Weld	<u>N/A</u>

IDENT	0° or 1 TO WELD			11 TO WELD		
	SWEEP POS	AMPL %	ATTEN dB	SWEEP POS	AMPL %	ATTEN dB
1/4T SDH	2.0	80	1			
1/2T SDH	4.0	30	1			
3/4T SDH	6.0	20	1			
1T SDH	8.0	10	1			

INSTRUMENT SETTINGS	
Mfg/Model No.:	<u>Krautbrunn Branson/KB-6000</u>
Serial No.:	<u>311344</u>
Damping	<u>Max</u>
Mode Select:	<u>Norm/Mat/Reject: OFF</u>
Freq.:	<u>2.25 Rep. Rate: F: 12.00</u>
Filter:	<u>HWP HWN Video: ON Jack: N/A</u>
Sweep Length	<u>C: 4.0 F: 5.28</u>
Sweep Delay	<u>C: 0.0 F: 1.40</u>
Gain 0° or 1	<u>C: 0 F: 1</u>
Gain 11	<u>C: N/A F: N/A</u>

CAL. CHECKS	TIME
Initial Cal.	<u>1505</u>
Intermediate	
Intermediate	
Intermediate	
Final Cal.	<u>1520</u>



Scan Sensitivity 7dB

INSTR. LINEARITY CAL. *				
	High	Low	High	Low
1			5	
2			6	
3			7	
4			8	
			9	

AMPL. CONTROL LINEARITY *		
Initial	Δ dB	Result
80	-6	
80	-12	
40	+6	
20	+12	

EXAMINATION WELD/AREA	Recordable Indications		Scan Limitation		COMMENTS
	Yes	No	Yes	No	
01-L-039	<u>N</u>	<u>A</u>	<u>N</u>	<u>A</u>	
01-L-040	<u>N</u>	<u>A</u>	<u>N</u>	<u>A</u>	
01-L-041	<u>N</u>	<u>A</u>	<u>N</u>	<u>A</u>	
01-L-042	<u>N</u>	<u>A</u>	<u>N</u>	<u>A</u>	
01-L-043	<u>N</u>	<u>A</u>	<u>N</u>	<u>A</u>	
01-L-044	<u>N</u>	<u>A</u>	<u>N</u>	<u>A</u>	
01-L-045	<u>N</u>	<u>A</u>	<u>N</u>	<u>A</u>	
01-L-046	<u>N</u>	<u>A</u>	<u>N</u>	<u>A</u>	

EXAMINER P.A. Melabak LEVEL II DATE 10/8/89
EXAMINER F.B. L. for R. Ray LEVEL III DATE 10/23/89
REVIEWER _____ LEVEL _____ DATE _____
Authorized Inspection Agency NBCL DATE 10/30/89

ADDITIONAL SHEETS? (Check Box)			
Continuation	<input checked="" type="checkbox"/>	Beam Plot	<u>N/A</u>
Supplements	<u>N/A</u>	Other *	<input checked="" type="checkbox"/>

* See pages 3 and 4.

EXAMINER R.A. Michael LEVEL II DATE 10/8/89
EXAMINER F.L. Whitfield for R. Roney LEVEL III DATE 10/23/89
REVIEWER _____ LEVEL _____ DATE _____
Authorized Inspection Agency NBCI DATE 10/30/89

COMBUSTION ENGINEERING

November 9, 1989

TO: File

Robert A. Michalski *RAM*
ES-C-89-734
Chattanooga Office

In telecon with Mr. Don Payne of AP&L on November 7, 1989, the core support barrel snubber lug visual examination data sheet shows the examination numbers as being 01-033 for the 0° lug and 01-038 for the 300° lug. These designations are incorrect and should be 01-039 for the 0° lug and 01-044 for the 300° lug. The correct designations will be incorporated on the original data sheet by Mr. Don Payne and on the copy by the writer.

cc: Patti Campbell - AP&L ✓
D.R. Payne - AP&L
A.S. Nelson - Chattanooga
F.G. Whytsell - Chattanooga
R.N. Brown - Chattanooga
R.C. Sykes - C-E Rep at ANO

Revised APR 6
10/30/89

COMBUSTION ENGINEERING

POWER SYSTEMS GROUP
FIELD CONSTRUCTION

Plant/Unit AND-2
Comp/System RPV CSB
Zone 1
Contract No. 4678
AP&L Proc. No. 1092.021

VT No. AND-410-005-1
Procedure No. AND-410-005
Rev. No. 0
ST No. N/A Rev. N/A

ORIGINAL

VISUAL EXAMINATION

Examination Weld/Area: 039 034 11/1/89
01-033 + 01-036
Snubber Lugs on Core
Support Barrel at 0° and
300°

Direct ☐ Remote ☒

Equipment Used for Examination:

TV Camera / 18% Neutral Gray Card

Videotape or Photograph Identification:

Roll No. N/A Frame No. N/A

OBSERVATION	YES	NO	N/A	LOCATION AND OTHER COMMENTS
Cracks		X		
Pits		X		
Scratches		X		
Gouges		X		
Grind Marks		X		
Arc Strikes		X		
Wear		X		
Misalignment		X		
Galling		X		
Erosion		X		
Corrosion		X		
Broken Parts		X		
Loose/Missing Parts		X		
Other (Describe)		X		

EXAMINER for [Signature] LEVEL II DATE 10-21-89
EXAMINER N/A LEVEL N/A DATE N/A
REVIEWER _____ LEVEL _____ DATE _____
Authorized Inspection Agency NBCI DATE 10/30/89

COMBUSTION ENGINEERING
POWER SYSTEMS GROUP

Procedure No.: STD-410-007
Revision No.: 01
WT No. 4678-ISI-005-1

ULTRASONIC INSTRUMENT LINEARITY RECORD

Page 3 of 4

ULTRASONIC INSTRUMENT

Mfg/Model No. KB-6000

Serial No. 311344

Filter Setting OFF

Calibration Block

Type C/S

Serial No. UT-7

Transducer -

Mfg. PANAMETRICS

Size 1" DIA

Frequency 2.25

Serial No. P59832

Straight Angle

Beam (X) Beam (%)

VERTICAL LINEARITY IN

No.	Actual Higher Signal	(Calculate) 1/2 of Higher	Acceptance Limits*	Actual Lower Signal
1	100	(50)	(45)-(55)	51
2	90	(45)	(40)-(50)	46
3	80	(40)	(35)-(45)	39
4	70	(35)	(30)-(40)	34
5	60	(30)	(25)-(35)	28
6	50	(25)	(20)-(30)	22
7	40	(20)	(15)-(25)	18
8	30	(15)	(10)-(20)	14
9	20	(10)	(5)-(15)	8
10	10	(5)	(0)-(10)	4

*Acceptance Limits are 1/2 of the Higher Signal \pm 5% FSH.

Signal amplitudes are in % FSH.

HORIZONTAL LINEARITY

Back Reflect.	Grid Loc.	Acceptance Limits
1	1	1
2		1.90-2.10
3		2.85-3.15
4		3.80-4.20
5		4.75-5.25
6		5.70-6.30
7		6.65-7.35
8		7.60-8.40
9		8.55-9.45
10	10	10

AMPLITUDE CONTROL LINEARITY IN

Initial Amplitude	dB Change	Result	Acceptance Limits
80% FSH	Down 6	42	32% - 48%
80% FSH	Down 12	22	16% - 24%
40% FSH	Up 6	74	64% - 96%
20% FSH	Up 12	76	64% - 96%

This instrument is considered:

(X) Acceptable **

() Not Acceptable

Test performed by: Carley L. Loya Level II Date 10-8-89

Test approved by: N/A Level N/A Date N/A

* Level II or III approval. Only required when Level I performs the linearity verification.

** Acceptable for three months from date of test.

COMBUSTION ENGINEERING
POWER SYSTEMS GROUP

Procedure No.: STD-410-007

Revision No.: 01

UT No. 4678-ISI-005-1

Page 4 of 4

ULTRASONIC INSTRUMENT LINEARITY RECORD

ULTRASONIC INSTRUMENT

Mfg/Model No. KB-6000

Serial No. 311344

Filter Setting OFF

Calibration Block

Type C/S

Serial No. UT-7

Transducer -

Mfg. PANAMETRICS

Size 1.0" DIA

Frequency 2.25

Serial No. P59832

Straight Angle

Beam (X) Beam (%)

VERTICAL LINEARITY OUT

No.	Actual Higher Signal	(Calculate) 1/2 of Higher	Acceptance Limits*	Actual Lower Signal
1	100	(50)	(45)-(55)	50
2	90	(45)	(40)-(50)	44
3	80	(40)	(35)-(45)	39
4	70	(35)	(30)-(40)	34
5	60	(30)	(25)-(35)	30
6	50	(25)	(20)-(30)	24
7	40	(20)	(15)-(25)	19
8	30	(15)	(10)-(20)	15
9	20	(10)	(5)-(15)	9
10	10	(5)	(0)-(10)	5

*Acceptance Limits are 1/2 of the Higher Signal \pm 5% FSH.

Signal amplitudes are in % FSH.

HORIZONTAL LINEARITY

Back Reflect.	Grid Loc.	Acceptance Limits
1	1	1
2		1.90-2.10
3		2.85-3.15
4	N	3.80-4.20
5		4.75-5.25
6	A	5.70-6.30
7		6.65-7.35
8		7.60-8.40
9		8.55-9.45
10	10	10

AMPLITUDE CONTROL LINEARITY OUT

Initial Amplitude	dB Change	Result	Acceptance Limits
80% FSH	Down 6	42	32% - 48%
80% FSH	Down 12	22	16% - 24%
40% FSH	Up 6	78	64% - 96%
20% FSH	Up 12	80	64% - 96%

This instrument is considered:

(X) Acceptable **

() Not Acceptable

Test performed by: Carly La Rosa Level II Date 10-8-89

Test approved by: N/A Level N/A Date N/A

* Level II or III approval. Only required when Level I performs the linearity verification.

** Acceptable for three months from date of test.

Plant/Unit AND 12Comp/System FLY WHEEL "B" / RCPZone 31 Exam 31-00BContract No. 611863ULTRASONIC
CALIBRATION DATA SHEETAP&L Proc. No. 1092-026*Payne AP&L*
*11/6/89*UT No. 015-06Procedure No. 4678-151-018 Rev. 1ST No. N/A Rev. N/ACal Block No. COMPONENTSurface (ID/OD) 310BBlock/Comp. Temp N/A °F / 50 °FSEN 1791

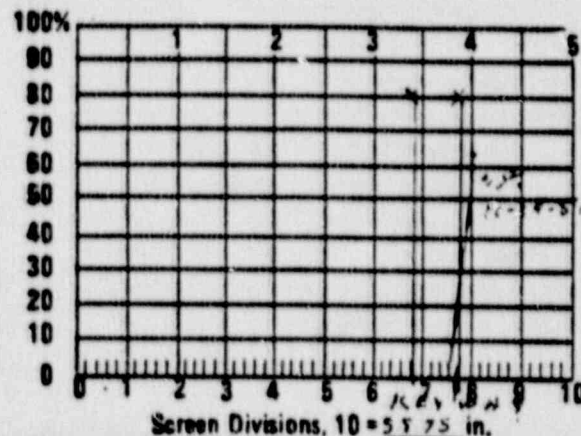
SEARCH UNIT	
Scan Angle:	<u>10°</u> Mode: <u>LONG</u>
Fixturing (if any):	<u>LUCITE WEDGE</u>
Size & Shape:	<u>1" ROUND</u>
Frequency:	<u>2.25 MHz</u>
Serial No/Brand:	<u>013237 K&B A&A TECH</u>
Measured Angle:	<u>10.5° CALCULATED</u>
Cable Type & Length:	<u>BNC-BNC 5'2"</u>
Couplant Brand:	<u>ULTRACOUPL II</u>
Couplant Batch:	<u>8951</u>

SCAN AREA	
0° WRV	
0° Met'l	<u>N/A</u>
⊥ To Weld	
∥ To Weld	

IDENT	0° or ⊥ TO WELD			∥ TO WELD		
	SWEEP POS	AMPL %	ATTEN dB	SWEEP POS	AMPL %	ATTEN dB
KEY WAY	G.8	80	56			
		N/A			N/A	

INSTRUMENT SETTINGS	
Mfg/Model No.:	<u>KB/USL42</u>
Serial No.:	<u>212957</u>
Damping	<u>FIX POSITION</u>
Mode Select:	<u>P/E</u> Reject: <u>OFF</u>
Freq.:	<u>2.25</u> Rep. Rate: <u>FIXED</u>
Filter:	<u>N/A</u> Video: <u>N/A</u> Jack: <u>T</u>
Sweep Length	<u>C: 50 F: 3.10</u>
Sweep Delay	<u>C: N/A F: 2.20</u>
Gain 0° or ⊥	<u>C: 40 F: 16</u>
Gain ∥	<u>C: N/A F:</u>

CAL. CHECKS	TIME
Initial Cal.	<u>0940</u>
Intermediate	
Intermediate	<u>N/A</u>
Intermediate	
Final Cal.	<u>1040</u>

Scan Sensitivity C2 DB

INSTR. LINEARITY CAL.					
	High	Low		High	Low
1	100	50	5	60	30
2	90	45	6	50	25
3	80	40	7	40	20
4	70	35	8	30	15
5			9	20	11

AMPL. CONTROL LINEARITY		
Initial	ΔdB	Result
80	-6	40
80	-12	21
40	+6	78
20	+12	78

EXAMINATION WELD/AREA	Recordable Indications		Scan Limitation		COMMENTS
	Yes	No	Yes	No	
RCP FLYWHEEL "B"	<u>N/A</u>	<u>X</u>	<u>N/A</u>	<u>X</u>	100% COVERAGE OF BULK AND KEYWAY - TWO DIRECTIONS
31-00B					
			<u>N/A</u>		

EXAMINER William R. Brown LEVEL II DATE 10-19-89EXAMINER N/A LEVEL N/A DATE N/AREVIEWER Patricia Campbell LEVEL P.E. DATE 11-9-89Authorized Inspection Agency NBEL DATE 11/2/89

ADDITIONAL SHEETS? (Check Box)

Continuation	<u>N/A</u>	Beam Plot	<u>N/A</u>
Supplements	<u>N/A</u>	Other	<u>N/A</u>

Page 7 of 8
78 11-2-89

Plant/Unit AND 12Comp/System FLYWHEEL "B" RCPZone 31 Exom 31-009Contract No. 611863ULTRASONIC
CALIBRATION DATA SHEETAP&L Proc. No. 1092-020UT No. 015-02Procedure No. 4625-151-015 Rev. 1ST No. N/A Rev. N/ACal. Block No. COMPONENTSurface (ID/OD) TOPBlock/Comp. Temp N/A OFI 80 OFISEN No. 1791

SEARCH UNIT	
Scan Angle: <u>0°</u>	Mode: <u>LONG</u>
Fixturing (if any): <u>N/A</u>	
Size & Shape: <u>1" ROUND</u>	
Frequency: <u>2.25 MHz</u>	
Serial No./Brand: <u>59831/PANAMER</u>	
Measured Angle: <u>N/A</u>	
Cable Type & Length: <u>BNC 1/2"</u>	
Couplant Brand: <u>ULTRACOL II</u>	
Couplant Batch: <u>8981</u>	

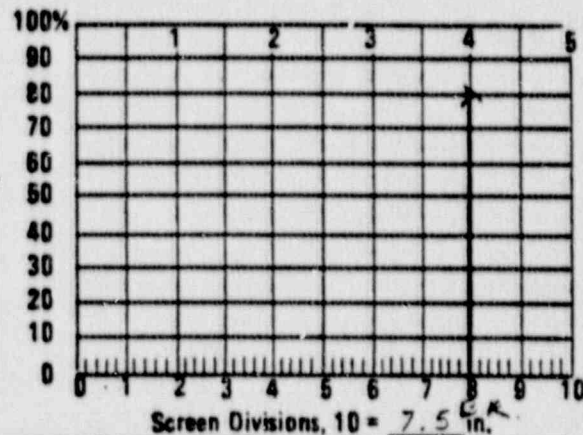
SCAN AREA

0° WRV	<u>N/A</u>
0° Mot'l	<u>X</u>
I To Weld	<u>N/A</u>
II To Weld	<u>N/A</u>

IDENT	0° or I TO WELD			II TO WELD		
	SWEEP POS	AMPL %	ATTEN dB	SWEEP POS	AMPL %	ATTEN dB
BR	8.0	80	18			

INSTRUMENT SETTINGS	
Mfg/Model No.:	<u>KA/US6-42</u>
Serial No.:	<u>212957</u>
Damping	<u>FIX POSITION</u>
Mode Select:	<u>P/E</u> Reject: <u>OFF</u>
Freq.:	<u>2.25</u> Rep. Rate: <u>FIXED</u>
Filter:	<u>N/A</u> Video: <u>MA Jack: T</u>
Sweep Length	C: <u>2.5</u> F: <u>5.45</u>
Sweep Delay	C: <u>N/A</u> F: <u>2.0</u>
Gain 0° or I	C: <u>0</u> F: <u>18</u>
Gain II	C: <u>N/A</u> F: <u>N/A</u>

CAL. CHECKS	TIME
Initial Cal.	<u>1045</u>
Intermediate	
Intermediate	<u>N/A</u>
Intermediate	
Final Cal.	<u>1125</u>

Scan Sensitivity 24.08

INSTR. LINEARITY CAL.					
	High	Low		High	Low
1	100	50	5	60	30
2	90	45	6	50	25
3	50	40	7	40	20
4	70	35	8	30	15
			9	20	11

AMPL. CONTROL LINEARITY		
Initial	ΔdB	Result
80	-6	40
80	-12	21
40	+6	79
20	+12	79

EXAMINATION WELD/AREA	Recordable Indications		Scan Limitation		COMMENTS
	Yes	No	Yes	No	
RCP FLYWA.	<u>N/A</u>	<u>X</u>	<u>X</u>	<u>N/A</u>	INCOMPLETE
"B"					COVERAGE OF
31-009					FLYWHEEL - SEE
					PAGE 82
					NOTED LOW
					AMPLITUDE NON-
					RECORDABLE
					INDICATIONS

EXAMINER William J. Jones LEVEL II DATE 10-19-89EXAMINER N/A LEVEL N/A DATE N/AREVIEWER Patricia Campbell LEVEL P.E. DATE 11-9-89Authorized Inspection Agency HBEL DATE 11/7/89

ADDITIONAL SHEETS? (Check Box)

Continuation	<u>N/A</u>	Beam Plot	<u>N/A</u>
Supplements	<u>N/A</u>	Other	<u>N/A</u>

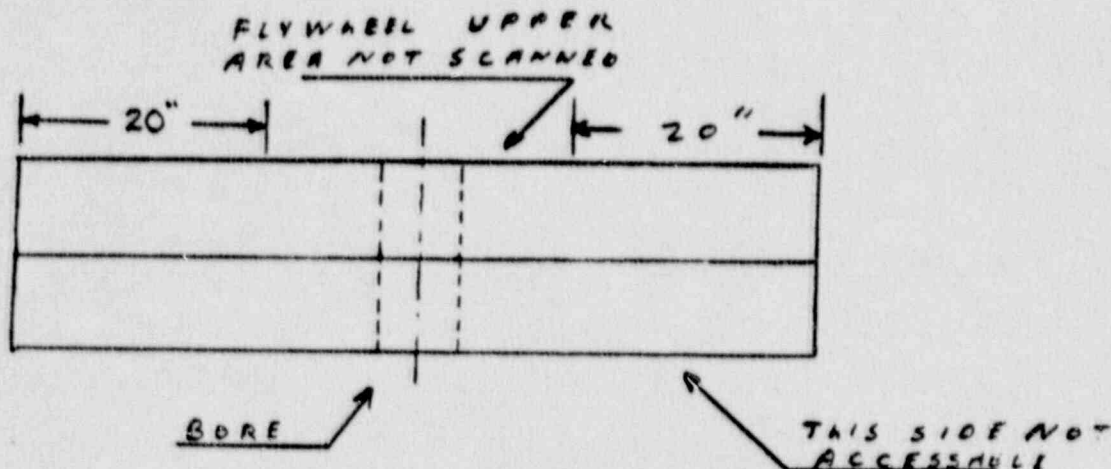
Page 1 of 92
20-112-59

Rayne AP&L
11/6/89

Attached to:

UT Sheet No. 015-02Page 2 of 2ULTRASONIC EXAMINATION
SCAN LIMITATION REPORTAP&L PROC. NO. 1092-024Supplement DWeld Number RCP FLYWHEEL "B"Interfering Condition: FLYWHEEL SHAFT AND PUMP CONFIGURATIONSize of Interfering Condition: SEE SKETCH BELOWDistance from Weld Centerline: N/ADistance from Datum Point 0°: N/AReference Drawing Number: GE 15763207

Comments and Sketches: (include extent of exam coverage not completed)



THE 20" AREA AT THE FLYWHEEL TOP IS THE ONLY AREA SCANNED. NO COVERAGE ON LOWER FACE. THE 20" AREA EXTENDS 360° AROUND THE FLYWHEEL.

ORIGINAL

EXAMINER <u>William H. F. Jones</u>	LEVEL <u>II</u>	DATE <u>11-2-89</u>
EXAMINER <u>N/A</u>	LEVEL <u>N/A</u>	DATE <u>N/A</u>
REVIEWER <u>Patricia Campbell</u>	LEVEL <u>P.E.</u>	DATE <u>11-9-89</u>
AUTHORIZED NUCLEAR INSPECTOR <u>NBCJ</u>		DATE <u>11/7/89</u>

Plant/Unit ANO 12Comp/System FLY WHEEL "A" RCP ULTRASONICZone 32 Exam 32-009 CALIBRATION DATA SHEETContract No. 611863AP&L Proc. No. 1092-026UT No. 018-01Procedure No. 4675-151-015 Rev. 1ST No. N/A Rev. N/ACal Block No. COMPONENTSurface (ID/OD) TOPBlock/Comp. Temp N/A °F / 52 °FSEA NO. 1791

SEARCH UNIT	
Scan Angle: <u>0</u>	Mode: <u>LONG</u>
Fixturing (if any): <u>N/A</u>	
Size & Shape: <u>1" ROUND</u>	
Frequency: <u>2.25 MHz</u>	
Serial No/Brand: <u>59831</u> <u>FAHMEITH</u>	
Measured Angle: <u>N/A</u>	
Cable Type & Length: <u>BNC-BNC</u> <u>5'2"</u>	
Couplant Brand: <u>ULTRAGEL II</u>	
Couplant Batch: <u>8981</u>	

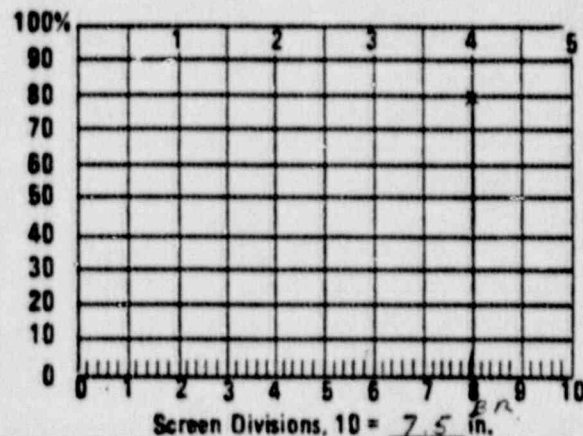
AP&L
11/6/89

SCAN AREA	
0° WRV	<u>N/A</u>
0° Mat'l	<u>X</u>
⊥ To Weld	<u>N/A</u>
∥ To Weld	<u>N/A</u>

IDENT	0° or ⊥ TO WELD			∥ TO WELD		
	SWEEP POS	AMPL %	ATTEN dB	SWEEP POS	AMPL %	ATTEN dB
BR	810	80	16			

INSTRUMENT SETTINGS	
Mfg/Model No.:	<u>KE/USL42</u>
Serial No.:	<u>212957</u>
Damping	<u>FIX POSITION</u>
Mode Select:	<u>F/E</u> Reject: <u>OFF</u>
Freq.:	<u>2.25</u> Rep. Rate: <u>FIXED</u>
Filter:	<u>N/A</u> Video: <u>N/A</u> Jack: <u>T</u>
Sweep Length	C: <u>2.5</u> F: <u>8.4</u>
Sweep Delay	C: <u>N/A</u> F: <u>2.4</u>
Gain 0° or ⊥	C: <u>0</u> F: <u>16</u>
Gain ∥	C: <u>N/A</u> F: <u>N/A</u>

CAL. CHECKS	TIME
Initial Cal.	<u>15:50</u>
Intermediate	
Intermediate	<u>N/A</u>
Intermediate	
Final Cal.	<u>15:55</u>

Scan Sensitivity 22 DB

INSTR. LINEARITY CAL.					
	High	Low		High	Low
1	100	50	5	60	30
2	90	45	6	50	25
3	80	40	7	40	20
4	70	35	8	30	15
			9	20	10

AMPL. CONTROL LINEARITY		
Initial	ΔdB	Result
80	-6	40
80	-12	20
40	+6	50
20	+12	80

EXAMINATION WELD/AREA	Recordable Indications		Scan Limitation		COMMENTS
	Yes	No	Yes	No	
RCP FLYWHEEL "A"	<u>N/A</u>	<u>X</u>	<u>X</u>	<u>N/A</u>	INCOMPLETE COVERAGE OF FLYWHEEL - SEE PAGE 52
32-009			<u>N/A</u>	<u>A</u>	

EXAMINER William A. Jones LEVEL II DATE 10-31-89EXAMINER N/A LEVEL N/A DATE N/AREVIEWER Patricia Campbell LEVEL P.E. DATE 11-9-89Authorized Inspection Agency INB Eln DATE 11-7-89

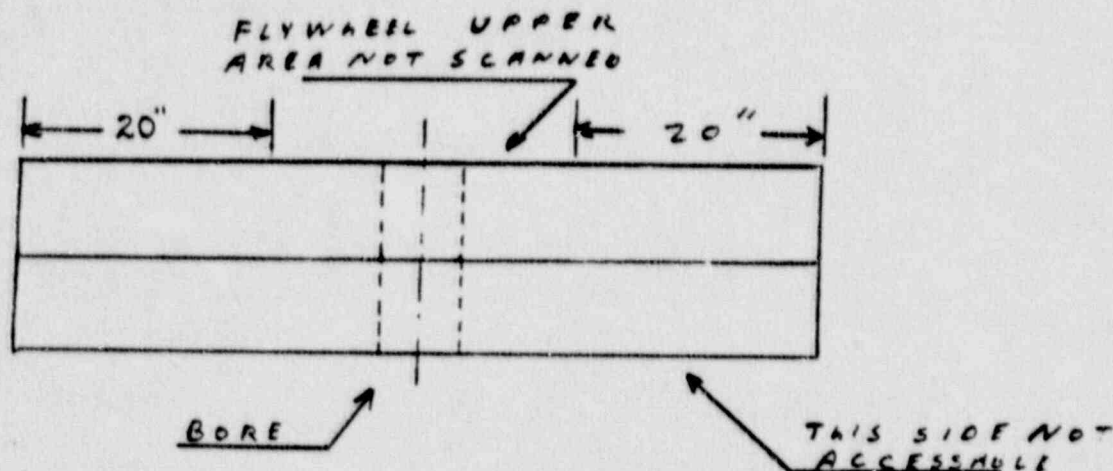
ADDITIONAL SHEETS? (Check Box)			
Continuation	<u>N/A</u>	Beam Plot	<u>N/A</u>
Supplements	<u>N/A</u>	Other	<u>N/A</u>

AP&L
11/6/89

Attached to:

UT Sheet No. 018-01Page 2 of 2AP&L Proc. No. 1092-026ULTRASONIC EXAMINATION
SCAN LIMITATION REPORT
Supplement DWeld Number RCP FLYWHEEL "A"Interfering Condition: FLYWHEEL SHIELD AND PUMP CONFIGURATIONSize of Interfering Condition: SEE SKETCH BELOWDistance from Weld Centerline: N/ADistance from Datum Point 0°: N/AReference Drawing Number: GE 157C 5207

Comments and Sketches: (include extent of exam coverage not completed)



THE 20" AREA AT THE FLYWHEEL TOP IS THE ONLY AREA SCANNED. NO COVERAGE ON LOWER FACE. THE 20" AREA EXTENDS 360° AROUND THE FLYWHEEL.

ORIGINAL

EXAMINER	<u>William R. [Signature]</u>	LEVEL	<u>II</u>	DATE	<u>11-2-89</u>
EXAMINER	<u>N/A</u>	LEVEL	<u>N/A</u>	DATE	<u>N/A</u>
REVIEWER	<u>Patricia Campbell</u>	LEVEL	<u>P.E.</u>	DATE	<u>11-9-89</u>
AUTHORIZED NUCLEAR INSPECTOR	<u>NBC [Signature]</u>			DATE	<u>11-7-89</u>

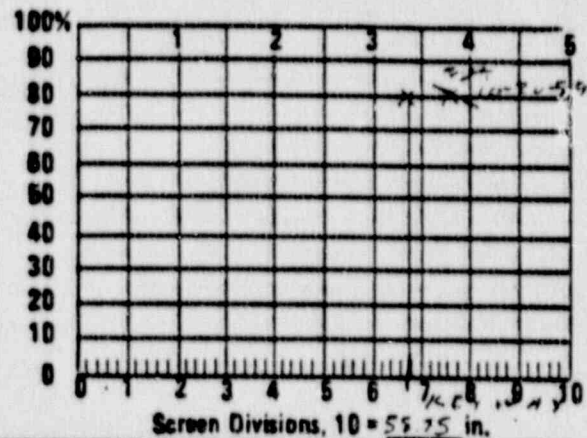
AP&L PROC. NO. 1092-020

UT No. 018-07
Procedure No. 4675-151-018 Rev. 1
ST No. N/A Rev. N/A
Cal. Block No. COMPONENT
Surface (ID/OD) SIDR
Block/Comp. Temp N/A °F/ 50 °F
SEALING 1791

RD Payne APR 6
11/6/89

SCAN AREA	
0° WRV	
0° Mat'l	
⊥ To Weld	
To Weld	

	θ° or \perp TO WELD			TO WELD		
IDENT	SWEEP POS	AMPL %	ATTEN dB	SWEEP POS	AMPL %	ATTEN dB
168 WAY	C-8	80	58			
		N			N	
		A			A	



CAL. CHECKS	TIME
Initial Cal.	1000
Intermediate	N/A
Intermediate	
Intermediate	
Final Cal.	1045

INSTR. LINEARITY CAL.					
	High	Low		High	Low
1	100	50	5	60	30
2	90	45	6	50	25
3	80	40	7	40	20
			8	30	15
4	70	35	9	20	11

AMPL. CONTROL LINEARITY		
Initial	Δ dB	Result
80	-6	40
80	-12	20
40	+6	80
20	+12	80

EXAMINATION WELD/AREA	Recordable Indications		Scan Limitation		COMMENTS
	Yes	No	Yes	No	
RCP FLYWHEEL	NA		NA		100% COVERAGE OF BORE AND KEY WAY - TWO DIRECTIONS
"C"					
			NA		
			A		

EXAMINER William A. Perry LEVEL II DATE 10-26-89
EXAMINER N/A LEVEL N/A DATE N/A
REVIEWER Patricia Campbell LEVEL P.E. DATE 11-9-89
Authorized Inspection Agency NBCL DATE 11/7/89

ADDITIONAL SHEETS? (Check Box)

Continuation	$\frac{A}{A}$	Beam Plot	$\frac{A}{A}$
Supplements	$\frac{A}{A}$	Other	$\frac{A}{A}$

Page 8 of 9
11-2-39

Plant/Unit AND 12
 Comp/System FLYWHEEL "C" / RCP
 Zone 33 Exam 33-009
 Contract No. CH 863

ULTRASONIC CALIBRATION DATA SHEET

AP&L PROC. NO. 1692-020

AP&L
11/6/89

UT No. 018-03
 Procedure No. 4678-151-018 Rev. 1
 ST No. N/A Rev. N/A
 Cal. Block No. COMPONENT
 Surface (ID/OD) TOP
 Block/Comp. Temp N/A °F 50 °P 17.1

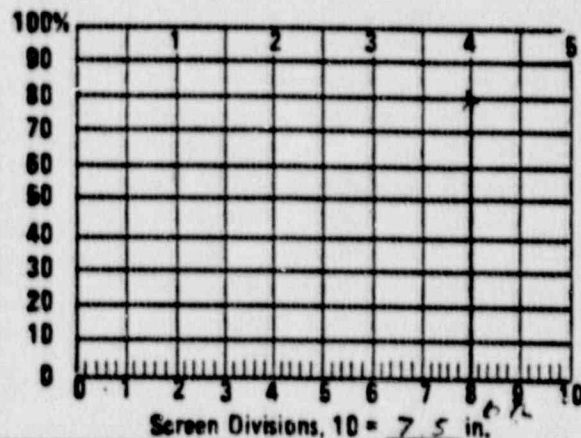
SEARCH UNIT	
Scan Angle:	<u>0</u> Mode: <u>LONG</u>
Fixturing (if any):	<u>N/A</u>
Size & Shape:	<u>1" ROUND</u>
Frequency:	<u>2.25 MHz</u>
Serial No/Brand:	<u>59831 PANAMETRICS</u>
Measured Angle:	<u>N/A</u>
Cable Type & Length:	<u>BNC-BNC 5'12"</u>
Couplant Brand:	<u>ULTRAGEL II</u>
Couplant Batch:	<u>8981</u>

SCAN AREA	
0° WRV	<u>N/A</u>
0° Mat'l	<u>X</u>
⊥ To Weld	<u>N/A</u>
∥ To Weld	<u>N/A</u>

IDENT	0° or ⊥ TO WELD			∥ TO WELD		
	SWEEP POS	AMPL %	ATTEN dB	SWEEP POS	AMPL %	ATTEN dB
BA	8.0	80	18			

INSTRUMENT SETTINGS	
Mfg/Model No.:	<u>KB/VSL 42</u>
Serial No.:	<u>212957</u>
Damping	<u>FIX POSITION</u>
Mode Select:	<u>P/E</u> Reject: <u>OFF</u>
Freq.:	<u>2.25</u> Rep. Rate: <u>FIXED</u>
Filter:	<u>N/A</u> Video: <u>N/A</u> Jack: <u>T</u>
Sweep Length	<u>C: 2.5 F: 8.43</u>
Sweep Delay	<u>C: N/A F: 2.2</u>
Gain 0° or ⊥	<u>C: 0 F: 18</u>
Gain ∥	<u>C: N/A F:</u>

CAL. CHECKS	TIME
Initial Cal.	<u>1045</u>
Intermediate	
Intermediate	<u>N/A</u>
Intermediate	
Final Cal.	<u>1125</u>

Scan Sensitivity 24 dB

INSTR. LINEARITY CAL.				
	High	Low	High	Low
1	100	50	60	30
2	90	45	50	25
3	80	40	40	20
4	70	35	30	15
			20	11

AMPL. CONTROL LINEARITY		
Initial	Δ dB	Result
80	-6	40
80	-12	20
40	+6	80
20	+12	80

EXAMINATION WELD/AREA	Recordable Indications		Scan Limitation		COMMENTS
	Yes	No	Yes	No	
RCP FLYWHL. "C"	<u>N/A</u>	<u>X</u>	<u>X</u>	<u>N/A</u>	INCOMPLETE
33-009					COVERAGE OF FLYWHEEL - SEE PAGE 82

EXAMINER William A. Evans LEVEL II DATE 10-20-89EXAMINER N/A LEVEL N/A DATE N/AREVIEWER Patricia Campbell LEVEL P.E. DATE 11-9-89Authorized Inspection Agency NBS DATE 11/7/89

ADDITIONAL SHEETS? (Check Box)			
Continuation	<u>N/A</u>	Beam Plot	<u>N/A</u>
Supplements	<u>N/A</u>	Other	<u>N/A</u>

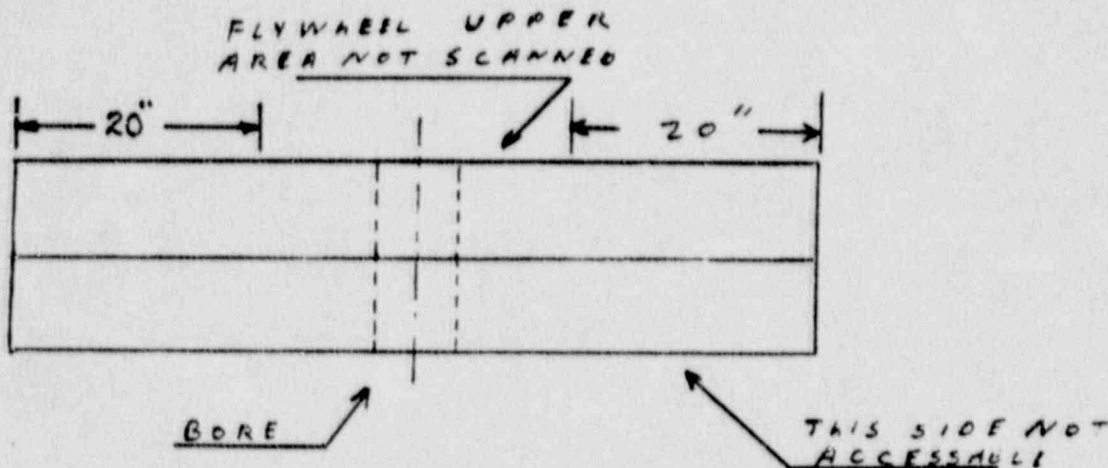
Page 2 of 9
28 11-2-89

AP&L
11/6/89

Attached to:

UT Sheet No. 015-03Page 2 of 2AP&L Proc. No. 1092-02CULTRASONIC EXAMINATION
SCAN LIMITATION REPORTSupplement DWeld Number RCP FLYWHEEL "C"Interfering Condition: FLYWHEEL SHROUD AND PUMP CONFIGURATIONSize of Interfering Condition: SEE SKETCH BELOWDistance from Weld Centerline: N/ADistance from Datum Point 0°: N/AReference Drawing Number: GE 15763207

Comments and Sketches: (include extent of exam coverage not completed)



THE 20" AREA AT THE FLYWHEEL TOP IS THE ONLY AREA SCANNED. NO COVERAGE ON LOWER FACE. THE 20" AREA EXTENDS 360° AROUND THE FLYWHEEL.

ORIGINAL

EXAMINER	<u>William H. P. [unclear]</u>	LEVEL	<u>II</u>	DATE	<u>11-2-87</u>
EXAMINER	<u>N/A</u>	LEVEL	<u>N/A</u>	DATE	<u>N/A</u>
REVIEWER	<u>Patricia St. Campbell</u>	LEVEL	<u>P.E.</u>	DATE	<u>11-9-89</u>
AUTHORIZED NUCLEAR INSPECTOR	<u>NB [unclear]</u>			DATE	<u>11/7/89</u>

COMBUSTION ENGINEERING

RD Payne APOL
10/30/89

Plant/Unit AND 12
Comp/System REACTOR COOLANT PUMP
Zone 33
Contract No. CUPL3/04678
AP&L Proc. No. 1092.27

PT No. 93-01
Procedure No. 78-151-093
Status NIA Rev. NIA

ORIGINAL

LIQU

ATION

	Brand Name	Batch No.	Dwell Time
CLEANER:	<u>SPOTCHECK</u>	<u>89H015</u>	<u>5</u>
PENETRANT:	<u>SPOTCHECK</u>	<u>89F05K</u>	<u>15</u>
REMOVER:	<u>SPOTCHECK</u>	<u>89H015</u>	<u>5</u>
DEVELOPER:	<u>SPOTCHECK</u>	<u>89H015</u>	<u>7</u>

Logan

Instructions: Completely describe ALL indications.
If in the "as-welded" condition - so state.
If no indications were found - so state.

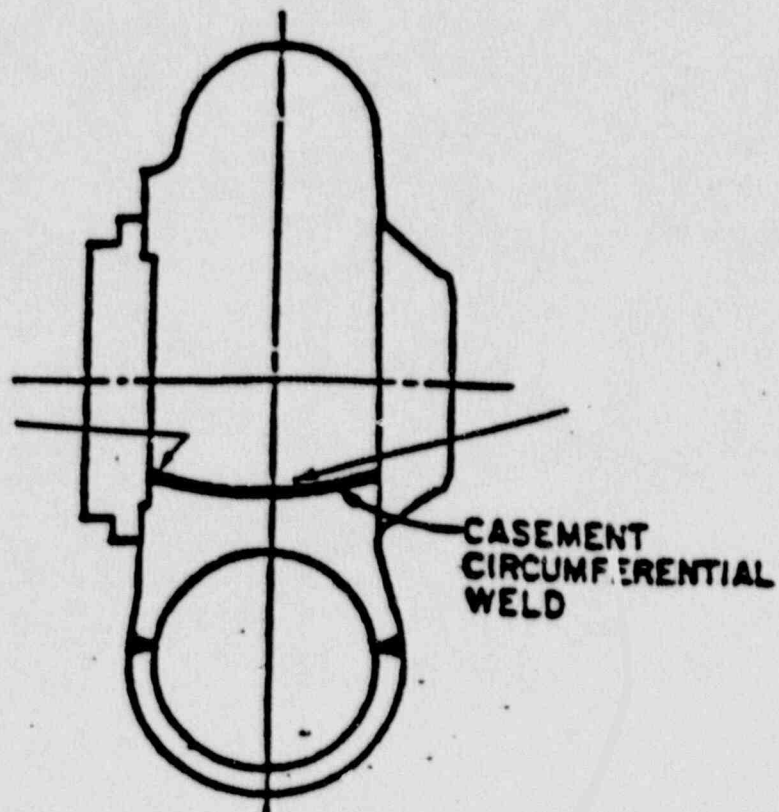
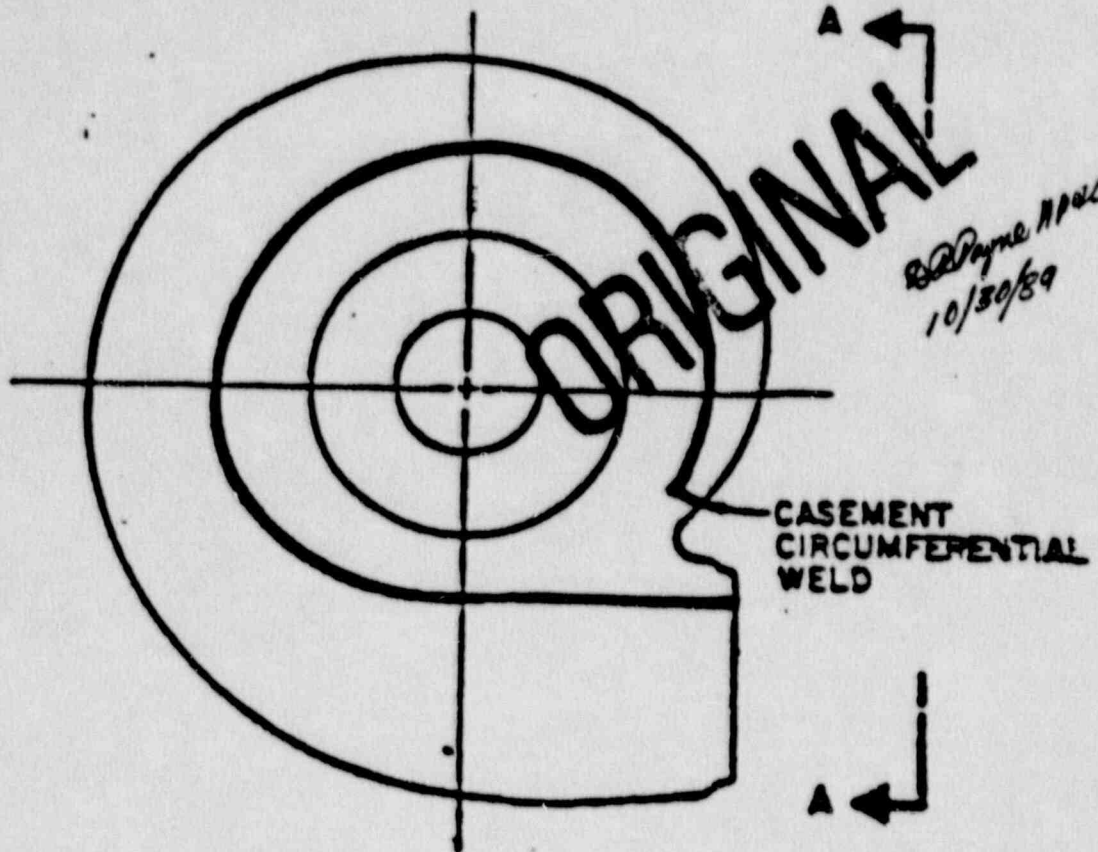
EXAMINATION WELD/AREA	DESCRIPTION/REMARKS	ACCEPT	REJECT
UPPER SCROLL WELD	NO RELEVANT RECORDABLE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RCP-C 33-001	INDICATIONS NOTED.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	EXAM DATE 10-12-89	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TORUS WELD	NO RELEVANT RECORDABLE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RCP-C 33-001A	INDICATIONS NOTED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	EXAM DATE 10-13-89	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LOWER SCROLL WELD	NO RELEVANT RECORDABLE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RCP-C 33-002	INDICATIONS NOTED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	EXAM DATE 10-13-89	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
N	SEE ATTACHED SKETCH FOR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A	WELD LOCATION ON PUMP.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	TOTAL OF APPROX. 4' OF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	WELD EXAMINED, BASED ON	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	EXISTING LOCATION MARKERS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Component Temperature 81°
SER. NO. 1791

Photograph: None ☒ Attached NIA
Sketch: None NIA Attached ☒

EXAMINER for [Signature] LEVEL II DATE 10-17-89
EXAMINER for [Signature] LEVEL II DATE 10-17-89
REVIEWER Antti Campbell - APOLPE LEVEL NA DATE 11-4-89
Authorized Inspection Agency N3 [Signature] DATE 10-30-89

Page 1 of 2



VIEW A

Miller R. J. Form
PT II 10-17-89

RD Payne
AP&L 10/30/89

COMBUSTION ENGINEERING

POWER SYSTEMS GROUP
FIELD CONSTRUCTION

Plant/Unit AND-UR
Comp/System RCP-C
Zone 33
Contract No. 611853/04678
AP&L Proc. No. 1092.87

VT No. 066-03
Procedure No. 066-04
Rev. No. 6
ST No. N/A Rev. N/A

ORIGINAL

VISUAL EXAMINATION

Examination Weld/Area:

UPPER AND LOWER SECTION
WELDS + CASIMANT COUPLER CONNECTION
WELD
33-001, 33-002, 33-001A

Direct ☒

Remote ☐

Equipment Used for Examination:

FLASHLIGHT / 18" NEUTRAL GRAY CARD

Videotape or Photograph Identification:

Roll No. N/A Frame No. N/A

OBSERVATION	YES	NO	N/A	LOCATION AND OTHER COMMENTS
Cracks				N/A
Pits				
Scratches				
Gouges				
Grind Marks				
Arc Strikes				
Wear				
Misalignment				
Galling				
Erosion				
Corrosion				
Broken Parts				
Loose/Missing Parts				
Other (Describe)				

EXAMINER for Jester

LEVEL II

DATE 10-12-89

EXAMINER William R. Payne

LEVEL II

DATE 10-12-89

REVIEWER Pat Campbell - AP&L PE

LEVEL NA

DATE 11-4-89

Authorized Inspection Agency NIBAL

DATE 10-30-89

Plant/Unit AND 12Comp/System FLY WHEEL / RCP "D"Zone 34 Exam. 34-00BContract No. CU 863ULTRASE IC
CALIBRATION DATA SHEETAP&L Proc. No. 1092-02CUT No. 018-05Procedure No. 408-151-012 Rev. 1ST No. N/A Rev. N/ACal. Block No. FLY WHEELSurface (ID/OD) TOP AND SIDEBlock/Comp. Temp N/A OF 80 OF 179

SEARCH UNIT

Scan Angle: 10° Mode: LONGFixturing (if any): LUCITE WHEELSize & Shape: 1" ROUNDFrequency: 2.25 MHzSerial No/Brand: D13237 K&B ARMO TECHMeasured Angle: 10.5° CALCULATEDCable Type & Length: 6' NC-BNC 5/12Couplant Brand: ULTRACEL IICouplant Batch: 5981

SCAN AREA

0° WRV N/A10° Mat'l N/A⊥ To Weld N/A|| To Weld N/A

0° or ⊥ TO WELD

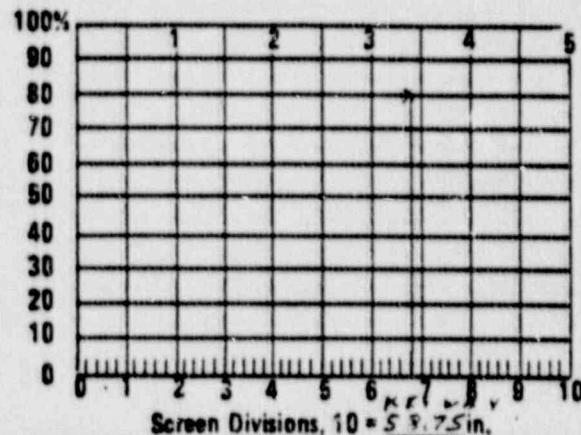
|| TO WELD

IDENT	SWEEP POS	AMPL %	ATTEN dB	SWEEP POS	AMPL %	ATTEN dB
KEY WAY	C.T	80	58			

INSTRUMENT SETTINGS

Mfg/Model No.: K&B/USL 42Serial No.: 212957Damping FIX POSITIONMode Select: R/E Reject: OFFFreq.: 2.25 Rep. Rate: FIXEDFilter: N/A Video: N/A Jack: TSweep Length C: 50 F: 3.05Sweep Delay C: N/A F: 2.22Gain 0° or ⊥ C: 40 F: 15Gain || C: N/A F:

CAL. CHECKS

Initial Cal. 1400Intermediate N/AIntermediate N/AIntermediate N/AFinal Cal. 1455Scan Sensitivity C4

INSTR. LINEARITY CAL.

	High	Low	High	Low
1	100	50	50	30
2	90	45	60	25
3	80	40	70	20
4	70	35	80	15
			90	10
			100	5

AMPL. CONTROL LINEARITY

Initial	Δ dB	Result
80	-6	40
80	-12	20
40	+6	80
20	+12	80

EXAMINATION WELD/AREA	Recordable Indications		Scan Limitation		COMMENTS
	Yes	No	Yes	No	
RCP FLYWHEEL "D"	N/A	X	N/A	X	100% COVERAGE
34-00B					OF BLANK AND
					KEY WAY - TWO
					DIRECTIONS

EXAMINER William H. From LEVEL II DATE 10-20-89EXAMINER N/A LEVEL N/A DATE N/AREVIEWER Patricia Campbell LEVEL P.E. DATE 11-9-89Authorized Inspection Agency NBCL DATE 11/7/89

ADDITIONAL SHEETS? (Check Box)

Continuation	N/A	Beam Plot	N/A
Supplements	N/A	Other	N/A

Page 9 of 9
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Plant/Unit A-10/2Comp/System FLY WHEEL "D" / RCPZone 34 Exam 34-009Contract No. C11 863

ULTRASONIC

CALIBRATION DATA SHEET

AP&L Proc. No. 1092.02cUT No. 018-04Procedure No. 4678-131-018 Rev. 1ST No. N/A Rev. N/ACal. Block No. COMPONENTSurface (ID/OD) TOPBlock/Comp. Temp. N/A °F / 50 °FSerial No. 1791

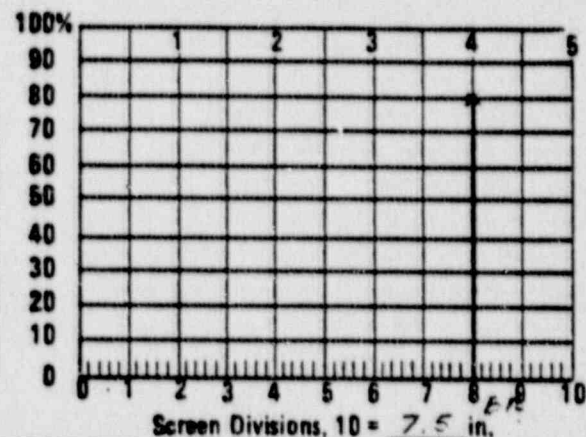
SEARCH UNIT	
Scan Angle: <u>0</u>	Mode: <u>LONG</u>
Fixturing (if any): <u>N/A</u>	
Size & Shape: <u>1" ROUND</u>	
Frequency: <u>2.25 MHz</u>	
Serial No./Brand: <u>159831 PANAMETRICS</u>	
Measured Angle: <u>N/A</u>	
Cable Type & Length: <u>BNC-BNC 5 1/2"</u>	
Couplant Brand: <u>ULTRACELL II</u>	
Couplant Batch: <u>8981</u>	

SCAN AREA	
0° WRV	<u>N/A</u>
0° Mat'l	<u>N/A</u>
⊥ To Weld	<u>N/A</u>
∥ To Weld	<u>N/A</u>

IDENT	0° or ⊥ TO WELD			∥ TO WELD		
	SWEEP POS	AMPL %	ATTEN dB	SWEEP POS	AMPL %	ATTEN dB
BR	8.0	80	10			

INSTRUMENT SETTINGS	
Mfg/Model No.:	<u>KR / USL42</u>
Serial No.:	<u>212957</u>
Damping	<u>FIX POSITION</u>
Mode Select:	<u>P/E</u> Reject: <u>OFF</u>
Freq.:	<u>2.25</u> Rep. Rate: <u>FIXED</u>
Filter:	<u>N/A</u> Video: <u>N/A</u> Jack: <u>T</u>
Sweep Length	<u>C: 2.5 F: 8.42</u>
Sweep Delay	<u>C: N/A F: 2.41</u>
Gain 0° or ⊥	<u>C: 0 F: 10</u>
Gain ∥	<u>C: A F:</u>

CAL. CHECKS	TIME
Initial Cal.	<u>1320</u>
Intermediate	
Intermediate	<u>N/A</u>
Intermediate	
Final Cal.	<u>1350</u>

Scan Sensitivity 22

INSTR. LINEARITY CAL.					
	High	Low		High	Low
1	100	50	5	100	30
2	90	45	6	50	25
3	80	40	7	40	20
4	70	35	8	30	15
			9	20	11

AMPL. CONTROL LINEARITY		
Initial	ΔdB	Result
80	-6	40
80	-12	20
40	+6	80
20	+12	80

EXAMINATION WELD/AREA	Recordable Indications		Scan Limitation		COMMENTS
	Yes	No	Yes	No	
RCP FLYWHL.	<u>N/A</u>			<u>N/A</u>	INCOMPLETE
"D"					COVER HOLE OF
34-009					FLY WHEEL - SEE
					PAGE 52

EXAMINER William A. T. Jones LEVEL II DATE 10-20-89EXAMINER N/A LEVEL N/A DATE N/AREVIEWER Patricia Campbell LEVEL PE DATE 11-9-89Authorized Inspection Agency NBS DATE 11/7/89

ADDITIONAL SHEETS? (Check Box)			
Continuation	<u>N/A</u>	Beam Plot	<u>N/A</u>
Supplements	<u>N/A</u>	Other	<u>N/A</u>

Page 1 of 2
29 11-2-89

APL
11/6/89

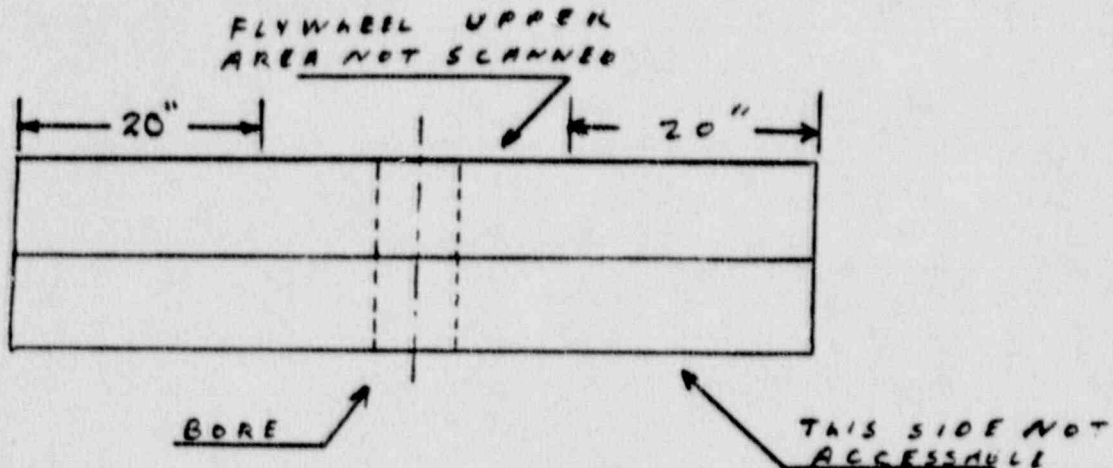
Attached to:

UT Sheet No. 015-04Page 2 of 2AP&L Proc. No. 1092-026ULTRASONIC EXAMINATION
SCAN LIMITATION REPORT

Supplement D

Weld Number RCP FLYWHEEL "D"Interfering Condition: FLYWHEEL SHAFT AND PUMP CONFIGURATIONSize of Interfering Condition: SEE SKETCH BELOWDistance from Weld Centerline: N/ADistance from Datum Point 0°: N/AReference Drawing Number: GE 15763207

Comments and Sketches: (include extent of exam coverage not completed)



THE 20" AREA AT THE FLYWHEEL TOP IS THE ONLY AREA SCANNED. NO COVERAGE ON LOWER FACE. THE 20" AREA EXTENDS 360° AROUND THE FLYWHEEL.

ORIGINAL

EXAMINER William R. Fournier LEVEL II DATE 11-2-89
EXAMINER N/A LEVEL N/A DATE N/A
REVIEWER Patricia Campbell LEVEL P.E. DATE 11-9-89
AUTHORIZED NUCLEAR INSPECTOR NB El DATE 11-7-89

COMBUSTION ENGINEERING

To: P. Campbell

From: A. Nelson

Subject: Transmittal of BOP ISI Original Data.

Please sign and date a copy of this memo
acknowledging receipt of the following BOP ISI
Original Data:

- (1) Linearity for UT Instrument S/N #211300
- (2) 019-01
- (3) 019-02
- (4) 066-03

Patti Campbell

Receipt Acknowledged

10-27-89

Date

NGEL
ANST
10-30-89

APL 10/30/89

ULTRASONIC INSTRUMENT LINEARITY REPORT

ORIGINAL

ULTRASONIC INSTRUMENT

Mfg/Model No. KB/USL38

Serial No. 211300

Filter Setting N/A

Calibration Block

Type 11 W TYPE 1

Serial No. 795792

Transducer

Mfg. PANAMETRICS

Size .5" ROUND

Frequency 2.75 MHz

Serial No. P-61316

Straight Angle

Beam (X) Beam (N/A)

HORIZONTAL LINEARITY

Back Reflect.	Grid Loc.	Acceptance Limits
1	1	1
2	2.0	1.90-2.10
3	3.0	2.85-3.15
4	4.0	3.80-4.20
5	5.0	4.75-5.25
6	6.0	5.70-6.30
7	7.0	6.65-7.35
8	8.0	7.60-8.40
9	9.0	8.55-9.45
10	10	10

No.	Actual Higher Signal	(Calculate) 1/2 of Higher	Acceptance Limits*	Actual Lower Signal
1	100	(50)	(45)-(55)	52
2	90	(45)	(40)-(50)	46
3	80	(40)	(35)-(45)	40
4	70	(35)	(30)-(40)	36
5	60	(30)	(25)-(35)	30
6	50	(25)	(20)-(30)	25
7	40	(20)	(15)-(25)	20
8	30	(15)	(10)-(20)	15
9	20	(10)	(5)-(15)	10
10	10	(5)	(0)-(10)	4

*Acceptance Limits are 1/2 of the Higher Signal \pm 5% FSH.

Signal amplitudes are in % FSH.

AMPLITUDE CONTROL LINEARITY

Initial Amplitude	dB Change	Result	Acceptance Limits
80% FSH	Down 6	42	32% - 48%
80% FSH	Down 12	22	16% - 24%
40% FSH	Up 6	77	64% - 96%
20% FSH	Up 12	72	64% - 96%

This instrument is considered:

(X) Acceptable **

(N/A) Not Acceptable

Test performed by: William A. Jones Level II Date 10-14-89

Test approved by: N/A Level N/A Date N/A

* Level II or III approval. Only required when Level I performs the linearity verification.

** Acceptable for three months from date of test.

COMBUSTION ENGINEERING

POWER SYSTEMS GROUP
FIELD CONSTRUCTIONBOP/AL 11/14
10/30/89Plant/Unit AND 42
Comp/System P22R.2 Top Piping
Zone 43
Contract No. 4678
AP&L Proc. No. 1092.22No. 066.01
Procedure No. 00000-ESS-066
Rev. No. 6
ST No. N/A Rev. N/A

SUPPORT MEMBER VISUAL EXAMINATION

Equipment Used for Examination

FLASHLIGHT / 18% NEUTRAL GRAY CARD

Videotape or Photograph Identification:

Roll No. N/A Frame No. N/A

Support Identification	Condition		Setting (if applicable)		Comments
	Accept	Reject	Required	Actual	
(43-054) 2 BCA-14-H-1	✓	N/A	3.0°	3.0°	COMPLETE ONE SIDE ONLY. NO EXAM ON PIPE SIDE PIN. (INSULATION IN THE WAY)
(43-046) 2 BCA-14-H-3	✓	N/A	1 1/2"	1 1/2"	
(43-052) 2 BCA-14-H-4	✓	N/A	N/A	N/A	
(43-047) 2 BCA-14-H-5	✓	N/A	2 1/2"	2 1/2"	
(43-045) 2 BCA-14-H-6	✓	N/A	N/A	N/A	TRAPEZE HANGER
(43-048) 2 BCA-14-H-11	N/A			N/A	HANGER MISSING. CLAMP ONLY ON PIPE
(43-050) 2 BCA-14-H-12	✓	N/A	3.0°	3.0°	
(43-049) 2 BCA-14-H-13	N/A			N/A	HANGER NOT CONNECTED
(43-051) 2 BCA-14-H-15	N/A			N/A	HANGER NOT CONNECTED
<p>These hangers were examined by mistake. They had previously been inspected during refueling outage 2R2 and again during 2R6. Therefore these exams are null & void. BOP 11/7/89</p> <p>(or for information only)</p>					

EXAMINER

Joe Foster

LEVEL

II

DATE

10-17-89

EXAMINER

William H. Smith

LEVEL

II

DATE

10-17-89

REVIEWER

Patricia Campbell

LEVEL

P.E.

DATE

11-9-89

Authorized Inspection Agency

NBEI

DATE

11-7-89

POWER SYSTEMS GROUP
FIELD CONSTRUCTION

ORIGINAL

Plant/Unit ANO 12

Comp/System SUPPORT / LIPS1 PIPE

Zone 55

Contract No. 611853

AP&L Proc. No. 1092.37

VT No. 066-05

Procedure No. E 55 - 060

Rev. No. 6ST No. 214 Rev. 214

SUPPORT MEMBER VISUAL EXAMINATION

Equipment Used for Examination

FLASHLIGHT AND 187. NEUTRAL GUNNY CAN

Videotape or Photograph Identification:

Roll No. N/A Frame No. N/A

[illegible]

EXAMINER William A. Fourn LEVEL II DATE 11-2-89

EXAMINER N/A LEVEL N/A DATE N/A

REVIEWER Patricia L. Campbell LEVEL P.E. DATE 11-9-89

Authorized Inspection Agency NBCU DATE 11-7-89

NOTE: This is not considered a limited examination based on guidance from a later code edition (1980W1981), IWF-1300(e). Page 1 of 1
plc 11-9-89



ARKANSAS POWER & LIGHT COMPANY

ORIGINAL

TITLE

ASME SECTION V INSPECTION

FORM NO.

1002-224

DATA SHEET FOR COMPONENTS

REV. #0

COMPONENT I.D. NO.:

PEAR NO.

90-NO. J.R. # 835068

① 26CB-5-H17

② N/A

③

MAKE:

④ N/A

TYPE:

⑤ Guide Hanger

SIZE:

⑥ 14" 1

SERIAL NO.:

⑦ N/A

LOCATION:

⑧ RAB

PROCEDURE NO.:

⑨ 1092.023

ISI-EXAM NO.:

⑩ 30-017

ELEVATION:

⑪ 347

AREA:

ASME

CLASS

⑫

PIPING LINE CLASS:

⑬ 26CB-5-14"

TECHNIQUE

TECHNIQUE

☒ Direct

⑭

☐ Remote☐ Video

EQUIPMENT

☒ Mirror

⑮

☐ Magnifier☐ CCTV

LIGHTING

☐ Natural

⑯

☒ Flashlight☐ Droplight

TOOLS

☒ Scale

⑰

☐ Micrometer☐ Caliper☐ Depth Gauge☐ Comparator☐ Level

PHOTOS

☐ Yes

⑰

☐ Black &☐ White☐ Color

SKETCH

☐ Yes

⑱

☒ No

RESOLUTION

☐ 1/64" Line

⑲

☒ 1/32" Line

TYPE EXAMINATION

☐ VT-1☒ VT-3

⑳

☐ VT-4

㉑

CHECK SAT FOR SATISFACTORY

UNSAT FOR UNSATISFACTORY OR NA FOR NOT APPLICABLE

DESCRIPTION

Item Inspected For

SAT

UNSAT

NA

Item Inspected For

SAT

UNSAT

NA

Valve & Pump
Bolts, Studs, & Nuts
Loose Member
Cracks
Corrosion
Gouges
Thread Damage
Evidence of Leakage
Other

☒
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Component Internals &
Mating Surfaces
Pitting
Corrosion
Erosion
Foreign Material
Gouged Parts
Wear
Evidence of Leakage
Other

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Item Inspected For

SAT

UNSAT

NA

Examined By

Martin Taylor

Level

II

Date

11/11/99

Reviewed By

Level

Date

Reviewed By

D. Payne

Date

2/14/90

ANII Review

HBC

Date

2-14-90

☒ SUPPLEMENTAL DATA ATTACHED

㉒

Page 1 of 3

This hanger was repaired under J.O. # 00800671.
Original report was lost.



ARKANSAS POWER & LIGHT COMPANY

Nuclear One

ORIGINAL

TITLE: ASME SECTION VI VISUAL INSPECTION FORM NO. 1002-22A

DATA SHEET FOR COMPONENTS REV. 10

COMPONENT I.D. NO.: ① 26CB-5-H14	PEAR NO.: ② N/A	JG-N6 J.R. # ③ 838068	
MAKE: ④ N/A	TYPE: ⑤ Guide Hanger	SIZE: ⑥ 6" 1	SERIAL NO.: ⑦ N/A
LOCATION: ⑧ RAB	PROCEDURE NO.: ⑨ 1092.023	ISI-EXAM NO.: ⑩ 30-021	
ELEVATION: ⑪ 347	AREA:	ASME CLASS ⑫ 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/>	PIPING LINE CLASS: ⑬ 26CB-5-6"

TECHNIQUE	TECHNIQUE <input checked="" type="checkbox"/> Direct ⑭ <input type="checkbox"/> Remote <input type="checkbox"/> Video	EQUIPMENT <input type="checkbox"/> Mirror ⑮ <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	LIGHTING <input type="checkbox"/> Natural ⑯ <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	TOOLS <input checked="" type="checkbox"/> Scale ⑰ <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper	<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Level
	PHOTOS <input type="checkbox"/> Yes <input type="checkbox"/> No	⑱ Black & White <input type="checkbox"/> Color	SKETCH <input checked="" type="checkbox"/> Yes ⑲ <input type="checkbox"/> No	RESOLUTION <input checked="" type="checkbox"/> 1/64" Line ⑳ <input type="checkbox"/> 1/32" Line	TYPE EXAMINATION <input type="checkbox"/> VT-1 <input checked="" type="checkbox"/> VT-3 ㉑ <input type="checkbox"/> VT-4

CHECK SAT FOR SATISFACTORY UNSAT FOR UNSATISFACTORY OR NA FOR NOT APPLICABLE

DESCRIPTION	Item Inspected For			Item Inspected For		
	SAT	UNSAT	NA	SAT	UNSAT	NA
Valve & Pump				Component Internals & Mating Surfaces		
Bolts, Studs, & Nuts				Pitting		
Loose Members				Corrosion		
Cracks				Erosion ㉓		
Corrosion				Foreign Material		
Gouges				Gouged Parts		
Thread Damage				Wear		
Evidence of Leakage				Evidence of Leakage		
Other				Other		
Item Inspected For				Examined By <u>J. Ray</u>		
SAT UN SAT NA				Level <u>III</u> Date <u>11-10-89</u> ㉕		
Hangers & Supports				Reviewed By		
Setting <input type="checkbox"/> Hot <input type="checkbox"/> Cold				Level _____ Date _____ ㉖		
Misalignment				Reviewed By <u>AD Payne</u> ㉗		
Broken Members ㉔				Date <u>2/14/90</u>		
Gouges				ANII Review <u>HBC</u>		
Arc Strikes				Date <u>2-14-90</u> ㉘		
Grind Marks						
Freedom of Movement						
Bolting						

VT-3
see attached
1/16" was 1/2"

☐ SUPPLEMENTAL DATA ATTACHED ㉙ Page Of

This hanger was repaired under J.O. # 00800671.
Original report was lost.



ARK POWER LIGHT COMPANY

Kansas Nuclear One

TITLE: ASME SECTION VI VISUAL EXAMINATION

FORM NO. 1002-23A

DATA SHEET FOR COMPONENTS

REV. #0

COMPONENT I.D. NO.:

PEAR NO.

30-NO. J.R.#838068

① 26CB-5-H21

② N/A

③ 11/11/69

MAKE:

TYPE:

SIZE:

SERIAL NO.:

④ N/A

⑤ Mech. Snubber

⑥ 6" 14"

⑦ N/A

LOCATION:

PROCEDURE NO.:

ISI-EXAM NO.:

⑧ RAB

⑨ 1092.023

⑩ 30-018

ELEVATION:

AREA:

ASME

CLASS

PIPING LINE CLASS:

⑪ 347

⑫ 1 2 3

⑬ 26CB-5-6" 14"

TECHNIQUE

TECHNIQUE

☒ Direct☐ Remote☐ Video

EQUIPMENT

☒ Mirror☐ Magnifier☐ CCTV

LIGHTING

☐ Natural☒ Flashlight☐ Droplight

TOOLS

☒ Scale☐ Micrometer☐ Caliper☐ Depth Gauge☐ Comparator☐ Level

PHOTOS

☐ Yes☒ No

⑭ Black &

☐ White☐ Color

SKETCH

☐ Yes☒ No

RESOLUTION

☐ 1/64" Line☒ 1/32" Line

TYPE EXAMINATION

☐ VT-1☐ VT-4☒ VT-3

CHECK SAT FOR SATISFACTORY

UNSAT FOR UNSATISFACTORY OR NA FOR NOT APPLICABLE

DESCRIPTION

Item Inspected For

SAT

UNSAT

NA

Item Inspected For

SAT

UNSAT

NA

Valve & Pump
Bolts, Studs, & Nuts
Loose Members
Cracks
Corrosion
Gouges
Thread Damage
Evidence of Leakage
OtherComponent Internals &
Mating Surfaces
Pitting
Corrosion
Erosion
Foreign Material
Gouged Parts
Wear
Evidence of Leakage
Other

Item Inspected For

SAT

UNSAT

NA

Examined By

Hangers & Supports

Setting 2" 3/4" ☐ Hot ☒ Cold

Misalignment

Broken Members

Gouges

Arc Strikes

Grind Marks

Freedom of Movement

Bolting

Level

Date

Reviewed By

Level

Date

Reviewed By

Date

ANII Review

Date

SNUBBER SERIAL #116

☒ SUPPLEMENTAL DATA ATTACHED

Page 1 of 3

This hanger was repaired under J.O.# 00800671.
Original report was lost.



ARKANSAS ENGINEERING COMPANY

Arkansas Engineering Company

TITLE: ASME SECTION XI VISUAL EXAMINATION

FORM NO. 1002-23A

DATA SHEET FOR COMPONENTS

REV. #0

COMPONENT I.D. NO.:

PEAR NO.

30-NO. J.R.#838068

① 2 DBB-1-H16

② N/A

③

MAKE:

TYPE:

SIZE:

SERIAL NO.:

④ N/A

⑤ Guide Hanger

⑥ N/A

⑦ N/A

LOCATION:

PROCEDURE NO.:

ISI-EXAM NO.:

⑧ N/A

⑨ 1092.023

⑩ 17-041

ELEVATION:

AREA:

ASME

1

2

3

PIPING LINE CLASS:

⑪ 355

CLASS

⑫

⑬ 2 DBB-1

TECHNIQUE

TECHNIQUE

☒ Direct

⑭

☐ Remote☐ Video

EQUIPMENT

☐ Mirror

⑮

☐ Magnifier☐ CCTV

LIGHTING

☐ Natural

⑯

☒ Flashlight☐ Droplight

TOOLS

☒ Scale

⑰

☐ Depth Gauge☐ Micrometer☐ Comparator☐ Caliper☒ Level

PHOTOS

☐ Yes

⑰

☐ Black &☐ White☐ Color

SKETCH

☐ Yes

⑱

☒ No

RESOLUTION

☐ 1/64" Line

⑲

☒ 1/32" Line

TYPE EXAMINATION

☐ VT-1☒ VT-3☐ VT-4

⑳

CHECK SAT FOR SATISFACTORY

UNSAT FOR UNSATISFACTORY OR NA FOR NOT APPLICABLE

DESCRIPTION

Item Inspected For

SAT

UN-SAT

NA

Valve & Pump
Bolts, Studs, & Nuts
Loose Members
Cracks
Corrosion
Gouges
Thread Damage
Evidence of Leakage
Other

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☐Component Internals &
Mating Surfaces
Pitting
Corrosion
Erosion
Foreign Material
Gouged Parts
Wear
Evidence of Leakage
Other☐
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Item Inspected For

SAT

UN-SAT

NA

Hangers & Supports
Setting N/A ☐ Hot ☐ Cold
Misalignment
Broken Members
Gouges
Arc Strikes
Grind Marks
Freedom of Movement
Bolting

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☐Examined By Thomas S. ...Level IV Date 11-11-89

Reviewed By

Level Date Reviewed By DD PayneDate 2/14/90ANII Review NBCDate 2-14-90

See DWG 2 DBB-1-H16 SHZ of 9 Rev 1 Attached

☒ SUPPLEMENTAL DATA ATTACHED

㉙

Page Of

This hanger was repaired under J.O.#00800671,
original report was lost.

PRESERVICE EXAMINATIONS

COMBUSTION ENGINEERING

POWER SYSTEMS GROUP
FIELD CONSTRUCTION

ORIGINAL

Plant/Unit ANO 12Comp/System RPV STUD WASHERZone 1 Exam 01-W-009Contract No. 611863AP&L Proc. No. 1092-02CVT No. 0CC-04Procedure No. ESS-0CCRev. No. GST No. N/A Rev. N/A

VISUAL EXAMINATION

Examination Weld/Area:

C8034 → WASHER
17289 DESIGNATIONSTAMPED 9-1Direct ☒Remote ☒

Equipment Used for Examination:

NEUTRAL FLASH LIGHT AND 18% GRAY CARD

Videotape or Photograph Identification:

Roll No. N/A Frame No. N/A

OBSERVATION	YES	NO	N/A	LOCATION AND OTHER COMMENTS
Cracks		✓		
Pits		✓		
Scratches		✓		
Gouges		✓		
Grind Marks		✓		
Arc Strikes	N	✓		N
Wear	A	✓	N	A
Misalignment		✓	A	
Galling		✓		
Erosion		✓		
Corrosion		✓		
Broken Parts		✓		
Loose/Missing Parts		✓		
Other (Describe)		N A		

EXAMINER William R. BrownLEVEL IIDATE 11-1-89EXAMINER N/ALEVEL N/ADATE N/AREVIEWER Patricia CampbellLEVEL P.E.DATE 11-8-89Authorized Inspection Agency NBEDATE 11-9-89Page 1 of 1

COMBUSTION ENGINEERING

Plant/Unit AND 12
Comp/System RRV NUT
Zone 01 EXAM 01-N-009
Contract No. 611863

ULTRASONIC CALIBRATION DATA SHEET

AP&L Proc. No. 1092-020

UT No. 010-02
Procedure No. 4675-151-010 Rev. 1
ST No. N/A Rev. N/A
Cal. Block No. VT-20
Surface (ID/OD) TOP
Block/Comp. Temp 68 °F / 67 °F
SEAN 1758

SEARCH UNIT	
Scan Angle:	0° Mode: <u>LONG</u>
Fixturing (if any):	<u>N/A</u>
Size & Shape:	<u>1" ROUND</u>
Frequency:	<u>2.75 MHz</u>
Serial No./Brand:	<u>P 59529 PINNACLES</u>
Measured Angle:	<u>N/A</u>
Cable Type & Length:	<u>BNC 7 BNC</u>
Couplant Brand:	<u>ULTIMAGEL II</u>
Couplant Batch:	<u>8951</u>

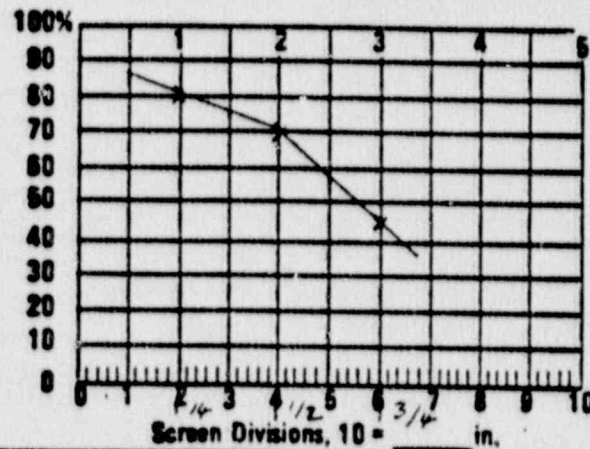
W. Payne AP&L
11/6/89

SCAN AREA	
0° WRV	<u>N/A</u>
0° Mat'l	<input checked="" type="checkbox"/>
⊥ To Weld	<u>N/A</u>
∥ To Weld	<u>N/A</u>

IDENT	0° or ⊥ TO WELD			∥ TO WELD		
	SWEEP POS	AMPL %	ATTEN dB	SWEEP POS	AMPL %	ATTEN dB
1/4 T	2.0	80	20			
1/2 T	4.0	70	↓			
3/4 T	6.0	45			<u>N/A</u>	
		<u>N/A</u>				
		<u>A</u>				

INSTRUMENT SETTINGS	
Mfg/Model No.:	<u>KB / USL 35</u>
Serial No.:	<u>211300</u>
Damping	<u>SINGLE FIX</u>
Mode Select:	<u>1°/E Reject: OFF</u>
Freq.:	<u>2.5 Rep. Rate: FIXED</u>
Filter:	<u>N/A Video: N/A Jack: T</u>
Sweep Length	<u>C: 25 F: 8.7</u>
Sweep Delay	<u>C: N/A F: 8.98</u>
Gain 0° or ⊥	<u>C: 20 F: 0</u>
Gain ∥	<u>C: N/A F:</u>

CAL. CHECKS	TIME
Initial Cal.	<u>0700</u>
Intermediate	
Intermediate	<u>N/A</u>
Intermediate	
Final Cal.	<u>0834</u>



Scan Sensitivity +12 DB

INSTR. LINEARITY CAL.					
	High	Low	High	Low	
1	100	50	5	60	0
2	90	45	6	50	25
3	80	40	7	40	20
4	70	35	8	30	15
			9	20	11

AMPL. CONTROL LINEARITY		
Initial	Δ dB	Result
80	-6	42
80	-12	21
40	+6	77
20	+12	74

EXAMINATION WELD/AREA	Recordable Indications		Scan Limitation		COMMENTS
	Yes	No	Yes	No	
RRV NUT	<u>N/A</u>	<input checked="" type="checkbox"/>	<u>N/A</u>	<input checked="" type="checkbox"/>	<u>SCAN ON TOP SURFACE</u>
					<u>NOTE - NUT TO BE IDENTIFIED AS 9-1</u>

EXAMINER William H. Evans LEVEL II DATE 10-31-89
EXAMINER N/A LEVEL N/A DATE N/A
REVIEWER Dr. Smith LEVEL A DATE 10-31-89
Authorized Inspection Agency NBEL DATE 11-9-89

ADDITIONAL SHEETS? (Check Box)			
Continuation	<u>N/A</u>	Beam Plot	<u>N/A</u>
Supplements	<u>N/A</u>	Other	<u>N/A</u>

ULTRASONIC INSTRUMENT LINEARITY RECORD

ULTRASONIC INSTRUMENT

Mfg/Model No. KE/USL-42

Serial No. 212957

Filter Setting N/A

Calibration Block

Type 11W TYPE 1

Serial No. 795792

Transducer

Mfg. PANAMETRICS

Size 5" ROUND

Frequency 2.25 MHZ

Serial No. PG1316

Straight Angle

Beam (X) Beam (N/A)

HORIZONTAL LINEARITY

Back Reflect.	Grid Loc.	Acceptance Limits
1	1	1
2	2.0	1.90-2.10
3	3.0	2.85-3.15
4	4.0	3.80-4.20
5	5.0	4.75-5.25
6	6.0	5.70-6.30
7	7.0	6.65-7.35
8	8.0	7.60-8.40
9	9.0	8.55-9.45
10	10	10

ORIGINAL

No.	Actual Higher Signal	(Calculate) 1/2 of Higher	Acceptance Limits*	Actual Lower Signal
1	100	(50)	(45)-(55)	50
2	90	(45)	(40)-(50)	45
3	80	(40)	(35)-(45)	40
4	70	(35)	(30)-(40)	35
5	60	(30)	(25)-(35)	30
6	50	(25)	(20)-(30)	25
7	40	(20)	(15)-(25)	20
8	30	(15)	(10)-(20)	15
9	20	(10)	(5)-(15)	10
10	10	(5)	(0)-(10)	5

*Acceptance Limits are 1/2 of the Higher Signal \pm 5% FSH.

Signal amplitudes are in % FSH.

AMPLITUDE CONTROL LINEARITY

Initial Amplitude	dB Change	Result	Acceptance Limits
80% FSH	Down 6	40	32% - 48%
80% FSH	Down 12	21	16% - 24%
40% FSH	Up 6	80	64% - 96%
20% FSH	Up 12	79	64% - 96%

This instrument is considered:

(X) Acceptable **

(N/A) Not Acceptable

Test performed by: William A. Gann Level II Date 10-14-89

Test approved by: N/A Level N/A Date N/A

* Level II or III approval. Only required when Level I performs the linearity verification.

** Acceptable for three months from date of test.

United States Testing Co., Inc.
Unitech Services Group

Form 33.30

LETTER OF TRANSMITTAL

Letter No: 89-QA-0056 Date: 11/12/89

To: Don Payne
AP+L

From: Rick Jackson
U.S. TESTING

Reference: request for original
copy of NDE reports to
Section XI.

WE ARE SENDING YOU:

☒ Attached

☐ Under separate cover

THE FOLLOWING ITEMS:

☐ Specification

☐ Preliminary report

☐ Final report

☐ Drawing(s)

☐ Photo(s)

☒ Copy of document(s)

☐ Procedure —

☒ Other original copies of NDE reports per Sect. XI.

Copies	Description	Reference
1 EA	UT-0005-2, UT-0006-2, UT-0007-2	
1 EA	PT-1810-2, PT-1835-2, PT-1880-2	

THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ For your information — file

☒ As you requested

☐ For review & comment

☐ Returned to you

☐ For your use

☐ Approved as noted

☐ For your approval

☐ Acknowledge, date & return to sender

Remarks: -NA-

Copy to:

Acknowledgement:

Don B. Payne

Date: 11/12/89

Sender:

Rick Jackson
U.S. TESTING
11-12-89

Kindly notify us at once if enclosures or data is not correct.

Sheet 1 of 1

ORIGINAL



WHEELAND
11-13-89

sect XI

DeWayne A. P. L.
11/13/89

JOB #. 786868

CERTIFIED REPORT of NONDESTRUCTIVE EXAMINATION

2-39

CUSTOMER ARKANSAS POWER and LIGHT		DATE 10/26/89	
ADDRESS ARKANSAS NUCLEAR ONE		CONTROL NO. OR REPORT NO. PT-1835-2	
FAC OR PROJECT LOCATION RUSSELLVILLE, ARKANSAS 72801		PLAN OR DWG. NO. 2CCA-31-1	
SURFACE CONDITION AS welded		HEAT TREAT BEFORE <input checked="" type="checkbox"/> AFTER <input type="checkbox"/>	
TYPE OF EXAMINATION UT <input type="checkbox"/> MT <input type="checkbox"/> PT <input checked="" type="checkbox"/>		TEMP OF MAT'L <input checked="" type="checkbox"/> 90	
EXAMINATION STANDARD 23.A.66 Rev. 3524-4 w/Amnd #1 Rev. 2		ACCEPTANCE STANDARD Sect XI of 3524-4 w/Amnd. #1 Rev.	
EQUIPMENT N/A		TRANSDUCER	
TEST BLOCK		METHOD USED	
SCANNING METHOD		SENSITIVITY LEVEL	
MAGNETIC PARTICLE EXAMINATION			
EQUIPMENT N/A		DRY <input type="checkbox"/> VISIBLE <input type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> AMPERAGE	
WET <input type="checkbox"/> FLUORESCENT <input type="checkbox"/> RECTIFIED <input type="checkbox"/>		PROD SPACING	
HEAD <input type="checkbox"/> COIL <input type="checkbox"/>		PARTICLES - COLOR	
LIQUID PENETRANT EXAMINATION			
METHOD SOLVENT		PENETRANT	
REMOVABLE		SKC-CLEANER NF	
PART NO. RCS/2KC-4D		EMULSIFIER	
OF DEFECTS CODE		SKD-NF	
BRAND NO. HF/S		BRAND NO. ZP9B	
BATCH NO. 87204K		BATCH NO. 87606K	
DWELL TIME 10 min		DEV. TIME 7 min	
TOTAL LENGTH EXAMINED N/A		TYPE OF WORK NEW <input checked="" type="checkbox"/> REPAIR <input type="checkbox"/>	
FEET N/A		NO. OF ITEMS ACCEPTED 2	
INCHES		NO. OF ITEMS REJECTED 0	
C - Cracks P - Porosity NF - Non-Fusion LI - Linear Indication S - Slag LA - Lamination OTHER - Specify			

ORIGINAL

~~IN~~ ~~OUT~~ ~~AM~~ ~~PM~~

~~Total Hours at Job~~ ~~N/A~~

~~Leave~~ ~~Standby~~ ~~Travel~~

~~Total Hours~~ ~~Total Charge~~

Technician ~~James H. Hall~~ SNT-TC-1A Level ~~II~~

Asst. Technician N/A

Customer Mr R of 10-26-44

Witnessed by N/A SIGNATURE

ENCLOSURE ADDED
Yes ☐ No ☒

United States Testing Co., Inc.

WELAND
11-13-89

Section XI
Inspection

DePue APOL
11/13/89

2.38

JOB # 776048

CERTIFIED REPORT of NONDESTRUCTIVE EXAMINATION

CUSTOMER ARKANSAS POWER and LIGHT		DATE 10/31/89	
ADDRESS ARKANSAS NUCLEAR ONE		CONTROL NO OR REPORT NO. PT-1880-2	
JOB OR PROJECT LOCATION RUSSELLVILLE, ARKANSAS 72801		P.D. NO. C-1091	
SURFACE CONDITION AS welded		HEAT NO. N/A	
TYPE OF EXAMINATION UT <input type="checkbox"/> MT <input type="checkbox"/> PT <input checked="" type="checkbox"/>		HEAT TREAT BEFORE <input checked="" type="checkbox"/> N/A AFTER <input type="checkbox"/>	
EXAMINATION STANDARD 23.A.66 Rev. 1 3524-4 w/Amnd. #1 Rev. 2		TYPE OF MATERIAL SS	
ACCEPTANCE STANDARD AS per 23.A.66 400-2 B (93)		TEMP. OF MAT'L 750 PTC#1839	
N.D.T. PROCEDURE NO. 3524-4 w/Amnd. #1 Rev. 2		23.A.66 Rev. 1	
ULTRASONIC EXAMINATION			
EQUIPMENT N/A		TRANSDUCER TEST BLOCK	
METHOD USED		SCANNING METHOD	
SENSITIVITY LEVEL			
MAGNETIC PARTICLE EXAMINATION			
EQUIPMENT N/A		DRY <input type="checkbox"/> VISIBLE <input type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> AMPERAGE	
WET <input checked="" type="checkbox"/> FLUORESCENT <input type="checkbox"/> RECTIFIED <input type="checkbox"/>		PROD. SPACING HEAD <input type="checkbox"/> COIL <input type="checkbox"/>	
PARTICLES - COLOR			
LIQUID PENETRANT EXAMINATION			
METHOD SOLVENT REMOVABLE		SKL PENETRANT BATCH NO. 89D046 DWEELL TIME 40 min	
SKC - CLEANER BATCH NO. 89D02K		EMULSIFIER BATCH NO. N/A	
SKD - NF BATCH NO. 89D06K		DEVELOPER DEV. TIME 7 min	
PART NO. 2 CCA-30-1		TOTAL LENGTH EXAMINED FEET INCHES N/A	
TYPE OF WORK NEW <input type="checkbox"/> REPAIR <input checked="" type="checkbox"/>		NO OF ITEMS ACCEPTED 1	
NO OF DEFECTS CODE		NO OF ITEMS REJECTED 0	

- Cracks P - Porosity NF - Non-Fusion LI - Linear Indication S - Slag LA - Lamination OTHER - Specify

[illegible]

ORIGINAL

I _____ A.M. _____ A.M. Technician Lance E. Hollander ENT-TC-1A
 II
 N _____ P.M. _____ P.M. Asst. Technician N/A
 Total Hours at Job Site N/A Customer Jm Rg 11-3-89
 Lunch _____ Standby _____ Travel _____ Witnessed by N/A
 Total Hours _____ Total Mileage _____ SIGNATURE _____
 ENCLOSURE ADDED Yes ☐ No ☒ Page 1 of 1

United States Testing Co., Inc.

assumes no responsibility for losses of any kind due to interpretation



UNITED STATES TESTING CO., INC.
UNITECH SERVICES GROUP

HBEL:WTF
11-13-89

APR 11/13/89

JOB # 798961

CERTIFIED REPORT of NONDESTRUCTIVE EXAMINATION

CUSTOMER Arkansas Power and Light		DATE 11-1-89	
ADDRESS Arkansas Nuclear ONE		CONTROL NO. OR REPORT NO. U.T. 0005-2	
JOB OR PROJECT LOCATION Russellville, Arkansas 72801		PLAN OR DWG. NO. 2CCA-25-3 Rev 9	
SURFACE CONDITION AS Ground		HEAT NO. N/A	HEAT TREAT BEFORE <input type="checkbox"/> AFTER <input type="checkbox"/>
TYPE OF EXAMINATION UT EC		EXAMINATION STANDARD 22.A.59 Rev 3524-2	TYPE OF MATERIAL S/S
		ACCEPTANCE STANDARD Para # 9.2 of	TEMP OF MAT'L 800 DAG
		N.D.T. PROCEDURE NO. 22.A.59 Rev 3524	

ULTRASONIC EXAMINATION					
EQUIPMENT Krautkramer USK6	TRANSDUCER Harisonic D95B5	TEST BLOCK UT-2B	METHOD USED Shear Wave	SCANNING METHOD Contact	SENSITIVITY LEVEL 18dB

MAGNETIC PARTICLE EXAMINATION					
EQUIPMENT N/A	DRY <input type="checkbox"/>	VISIBLE <input type="checkbox"/>	AC <input type="checkbox"/> DC <input type="checkbox"/>	AMPERAGE	PROD. SPACING
	WET <input type="checkbox"/>	FLUORESCENT <input type="checkbox"/>	RECTIFIED <input type="checkbox"/>		HEAD <input type="checkbox"/> COIL <input type="checkbox"/>

LIQUID PENETRANT EXAMINATION											
METHOD N/A	PENETRANT		CLEANER		EMULSIFIER		DEVELOPER				
	BRAND NO.	BATCH NO.	DWELL TIME	BRAND NO.	BATCH NO.	BRAND NO.	BATCH NO.	EMULS TIME	BRAND NO.	BATCH NO.	DEV. TIME
											DRY <input type="checkbox"/> NON
											WET <input type="checkbox"/> AQUEOUS

PART NO. ISI-27B	TOTAL LENGTH EXAMINED		TYPE OF WORK	NO. OF ITEMS ACCEPTED	NO. OF ITEMS REJECTED
OF DEFECTS CODE	FEET N/A	INCHES	NEW <input checked="" type="checkbox"/> REPAIR <input type="checkbox"/>	1	0

C - Cracks P - Porosity NF - Non-Fusion LI - Linear Indication S - Slag LA - Lamination OTHER - Specify

PC# OR SN#	ACC	REJ	DEFECT CODE	REMARKS	PC# OR SN#	ACC	REJ	DEFECT CODE	REMARKS
FW-3C1	X			NO APPARENT INDICATIONS					
Located - RB-335-5°									
WELD Verified By Etching									
ISI EXAM # 25-098									
N/A									
ORIGINAL									

IN		OUT		Technician [Signature]	SNT-TC-1A Level II
AM		AM		Asst. Technician [Signature]	
PM		PM		Customer JNR 11-3-89	
Total Hours at Jobsite N/A				Witnessed by	SIGNATURE
Lunch	Standby	Travel		ENCLOSURE ADDED	Yes <input type="checkbox"/> No <input type="checkbox"/>
Total Hours		Total Mileage		Page 1 of 2	

United States Testing Co., Inc.

WISCONSIN
11-13-89

22094 MPOL
11/13/89

WALL THICKNESS, PROFILE, EXAM COVERAGE SHEET

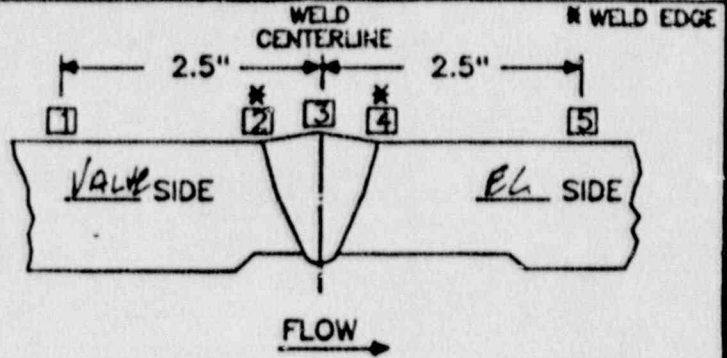
NDEN

WELD NO: FW401
DWG: 2CCA-25-3 SYSTEM: SPL Section In-line
INSTRUCTION NO: _____ REV: _____

QA RECORD	NON QA RECORD
RT	DATE
NO. PAGES	INITIALS
RELATED DOCUMENT NUMBER	

RECORD THICKNESS MEASUREMENTS AS INDICATED, INCLUDING WELD WIDTH, EDGE-TO-EDGE AT 0°

POSITION	Ø	OTHER
1	N/A	
2	N/A	
3	.600	
4	.530	
5	.920	

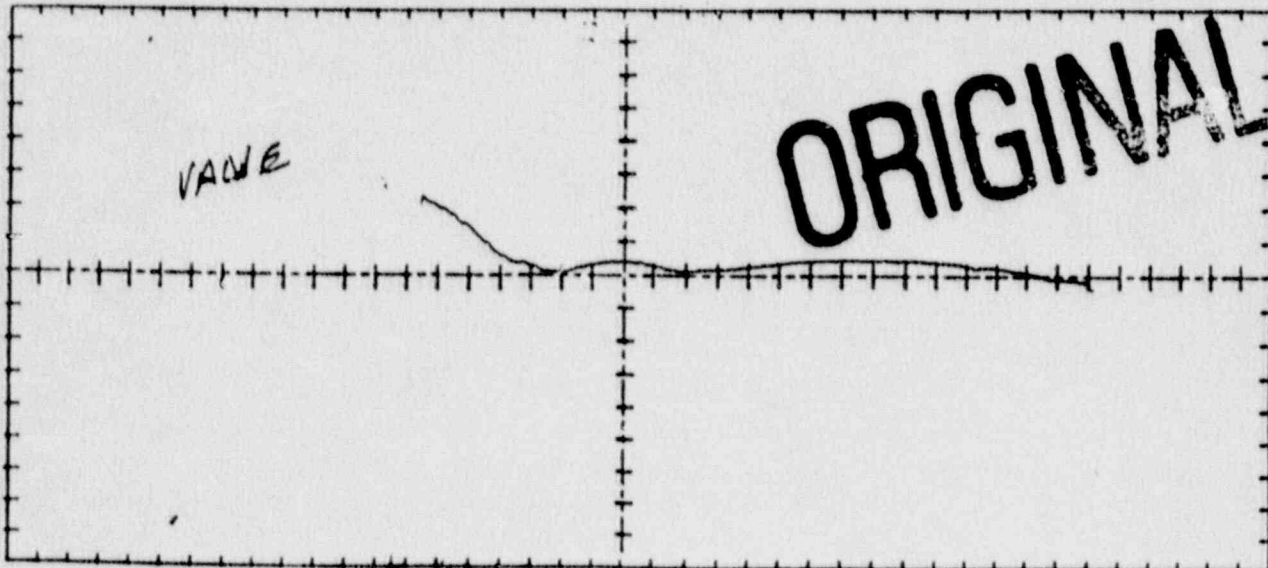


INSTRUMENT: USK-6
SERIAL NO: 10
TRANSDUCER: 2.25 MHz SCT 11-1-89 Harrisonic
SERIAL NO: D95B7
SIZE: Y2" FREQ: 2.25 MHz
COUPLANT: Ultra Gel II Batch # 8976

DELAY: 780 RANGE: 1X22
SWEEP/MATL CAL: 220
GAIN/COARSE: 0 FINE: 6
CAL BLK NO: BB-5186
INITIAL: _____ FINAL: _____
THICKNESS: 0.500" / 0.100"
BATCH NO: _____

COMMENTS: _____

CROWN WIDTH: 3/4" CROWN HEIGHT: 1/32" DIAMETER: 3.5"



EXAMINED BY: Steven C. Johnson
LEVEL: II DATE: 11-1-89

EXAMINED BY: _____
LEVEL: _____ DATE: _____

QP FINAL REVIEW: _____
DATE: _____

EXAM TIME: _____ DOSE: _____ ☐ SUPPLEMENTAL DATA ATTACHED PAGE OF



United States Testing Company, Inc.
Unitech Services Group
WB Lander 11-13-89
R. Payne APOL 11/13/89

ULTRASONIC CALIBRATION SHEET

EXAMINATION PERSONNEL:

NAME Steven Johnson LEVEL II
NAME _____ LEVEL _____
REVIEWED BY _____ LEVEL _____

PLANT AND UNIT 2
CALIBRATION SHT. NO. _____
DATE 11-1-89
PROJECT NO. _____
FUNCTION NO. _____
CHECKLIST NO. _____
INITIAL CAL. TIME 2:30 PM
CAL. CHECK TIME 2:30 PM
FINAL CAL. TIME 4:00 PM
PROCEDURE NO. 22.A.59 REV. 324-2
TECHNIQUE NO. _____ REV. _____

EQUIPMENT

INSTRUMENT Krant Krumer S/N 10540 CABLE BNC Micro-dot
RECORDER N/A S/N N/A
TRANSDUCER Horisonic S/N 09585 SIZE .25" FREQ. 2.25 MHz ANGLE 45°
CAL BLOCK No. LT-28 REF. REFL. Notch TEMP. 80 °F
REF. BLOCK DSC S/N 2028-83 REF. REFL. N/A TEMP. 80 °F
COUPLANT Ultrac Gel II Bath # 876 THERMOMETER SERIAL NO. 1838

TYPE EXAMINATION: ☒ ANGLE BEAM ☐ LONGITUDINAL ☒ BASE METAL ☒ WELD METAL

LINEARITY CHECK

VERTICAL

SIGNAL 1	100	90	80	70	60	50	40	30	20	10
SIGNAL 2	50	45	40	35	30	25	20	15	10	5

SIGNAL 2 SHALL EQUAL 50% OF SIGNAL 1 ± 5% OF FULL SCALE

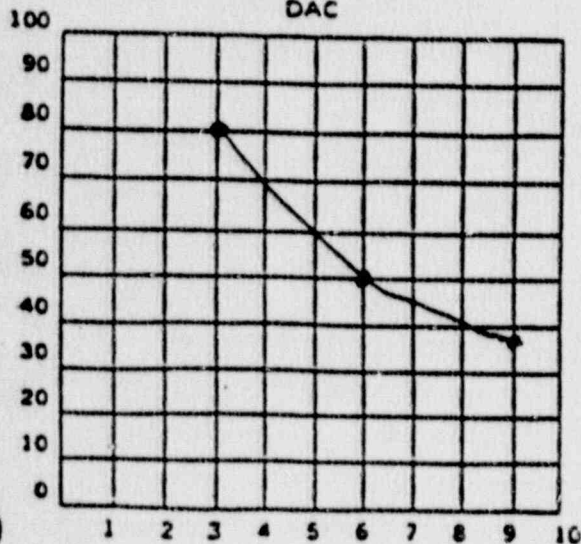
ATTENUATOR

TESTER GAIN	SET	-6	-12	SET	+12	SET	+6
SIGNAL AMP	80%	32 to 48	16 to 24	20%	64 to 96	40%	64 to 96
		40	20		80		80

DAILY LINEARITY CHECKS SATISFACTORY REFER TO CAL. NO. _____

DISTANCE AMPLITUDE CURVE

DAC



INSTRUMENT SET UP

FREQUENCY ☐ 1.0 ☒ 2.25 ☐ 5.0 ☐ OTHER _____
SENSITIVITY/GAIN 18 FINE/db ☒ COARSE/db _____
RANGE 1X DAMPING N/A
SWEEP/MAT'L. CAL 8.74 FILTER OFF
DELAY 8.10 REJECT OFF
REP. RATE Factory Set JACK ☒ R ☐ T
UT EXAMINATION DATA SHEET No (s): _____

ORIGINAL

WELLS
11-13-89

JOB # 798961

CERTIFIED REPORT of NONDESTRUCTIVE EXAMINATION

CUSTOMER		Arkansas Power and Light		DATE		11-1-89	
ADDRESS		Arkansas Nuclear ONE		CONTROL NO. OR REPORT NO.		U.T. 0005-2	
JOB OR PROJECT LOCATION		Russellville, Arkansas 72801		P.D. NO.		C-1091	
SURFACE CONDITION		AS Ground		HEAT NO.		— N/A —	
				HEAT TREAT		BEFORE <input type="checkbox"/> N/A <input checked="" type="checkbox"/> AFTER	
				TYPE OF MATERIAL		S/S	
				TEMP. OF MAT'L		80°C DAE	
TYPE OF EXAMINATION		EXAMINATION STANDARD		ACCEPTANCE STANDARD		N.D.T. PROCEDURE NO.	
UT <input checked="" type="checkbox"/> MT <input type="checkbox"/> PT <input type="checkbox"/>		22.A.59 Rev 3524-2		Para # 9.2 of →		22.A.59 Rev 35	

ULTRASONIC EXAMINATION

EQUIPMENT	TRANSDUCER	TEST BLOCK	METHOD USED	SCANNING METHOD	SENSITIVITY LEVEL
Kraut Kramer USK10	Horisonic D95B5	UT-2B	Shear Wave	Contact	SC 1117 E 888 18d

MAGNETIC PARTICLE EXAMINATION

Equipment	DRY <input type="checkbox"/>	VISIBLE <input checked="" type="checkbox"/>	AC <input type="checkbox"/>	DC <input type="checkbox"/>	AMPERAGE	PROD. SPACING	PARTICLES - COLOR
N/A	WET <input type="checkbox"/>	FLUORESCENT <input type="checkbox"/>		RECTIFIED <input type="checkbox"/>		HEAD <input type="checkbox"/> DUTY <input type="checkbox"/>	

LIQUID PENETRANT EXAMINATION

[illegible]

PART NO	TOTAL LENGTH EXAMINED		TYPE OF WORK	NO. OF ITEMS ACCEPTED	NO. OF ITEMS REJECTED
2SI-27B	FEET	INCHES	NEW <input checked="" type="checkbox"/> REPAIR <input type="checkbox"/>	1	0

C - Cracks P - Porosity NF - Non-Fusion LI - Linear Indication S - Slag LA - Lamination OTHER - Specify

[illegible]

~~ORIGINAL~~

Technician [Signature] SNT-TC-1A Level II

Asst. Technician [Signature]

Customer: JN Rg 11389

Witnessed by _____ SIGNATURE _____

ENCLOSURE ADDED
Yes ☒ No ☐

Page 1 of 2

United States Testing Co., Inc.

WALL THICKNESS, PROFILE, EXAM COVERAGE SHEET

NDEN

WELD NO: FW24C1

DWG: 2CCA-25-3

SYSTEM: SBC Section - inline

INSTRUCTION NO: _____

REV: _____

QA RECORD

NON QA RECORD

RT

DATE

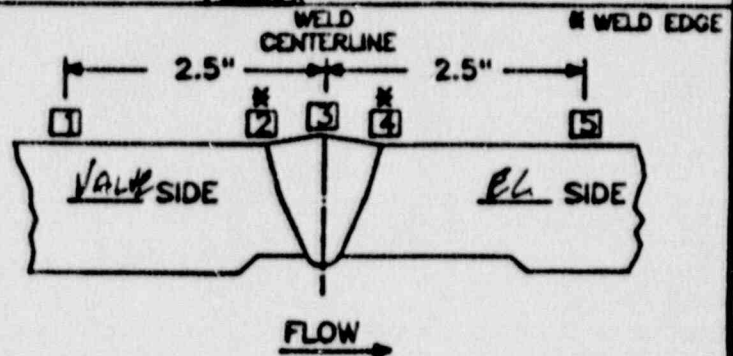
NO. PAGES

INITIALS

RELATED DOCUMENT NUMBER

RECORD THICKNESS MEASUREMENTS AS INDICATED, INCLUDING WELD WIDTH, EDGE-TO-EDGE AT 0°

POSITION	0°	OTHER
1	N/A	
2	N/A	
3	.600	
4	.530	
5	.80	



INSTRUMENT: USK-6

SERIAL NO: 10

TRANSDUCER: 2.25 MHz ST 11-1-89 Harmonic

SERIAL NO: D95B7

SIZE: Y2" FREQ: 2.25 MHz

COUPLANT: Ultron Gel II Batch # B976

DELAY: 780

RANGE: 1X22

SWEEP/MATL CAL: 220

GAIN/COARSE: 0 FINE: 6

CAL BLK NO: BB-51B6

INITIAL: _____

FINAL: _____

THICKNESS: 0.500" / 0.100"

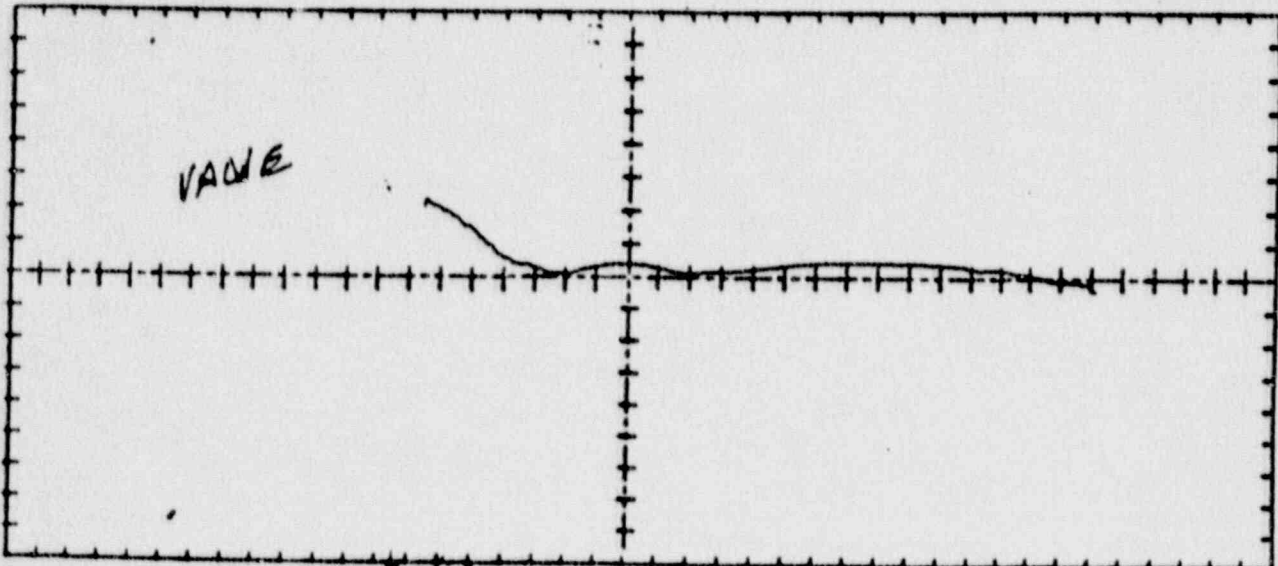
BATCH NO: _____

COMMENTS: _____

CROWN WIDTH: 5/4"

CROWN HEIGHT: 1/32"

DIAMETER: 3.5"



EXAMINED BY:

Steven C. Johnson

EXAMINED BY:

OP FINAL REVIEW:

LEVEL: II

DATE: 11-1-89

LEVEL: _____

DATE: _____

DATE: _____

EXAM TIME: _____

DOSE: _____

☐ SUPPLEMENTAL DATA ATTACHED

PAGE OF

REV. 1

WBE & SII
1-13-89

DD Payne NPO
11/13/89

ORIGINAL



United States Testing Company, Inc.
Unitech Services Group

413 Sch 6 RT
11-13-89

DD Payne APC
11/13/89

ULTRASONIC CALIBRATION SHEET

EXAMINATION PERSONNEL:

NAME Steven Johnson LEVEL II

NAME _____ LEVEL _____

REVIEWED BY _____ LEVEL _____

PLANT AND UNIT	<u>2</u>
CALIBRATION SHT. NO.	_____
DATE	<u>11-1-89</u>
PROJECT NO.	_____
FUNCTION NO.	_____
CHECKLIST NO.	_____
INITIAL CAL. TIME	<u>2:30 PM</u>
CAL. CHECK TIME	<u>2:30 PM</u>
FINAL CAL. TIME	<u>4:00 PM</u>
PROCEDURE NO.	<u>22.A.59</u> REV. <u>824-2</u>
TECHNIQUE NO.	_____ REV. _____

EQUIPMENT

INSTRUMENT Krant Krumer SN 10540 CABLE BNC Micro-dot
RECORDER N/A SN N/A
TRANSDUCER Horisonic SN 09585 SIZE .25" FREQ. 2.25 MHz ANGLE 45°
CAL BLOCK No. LT-28 REF. REFL. Notch TEMP. 80 °F
REF. BLOCK DSX SN 2028-83 REF. REFL. N/A TEMP. 80 °F
COUPLANT Ultra Gel II Bath # 876 THERMOMETER SERIAL NO. 1838

TYPE EXAMINATION: ☒ ANGLE BEAM ☐ LONGITUDINAL ☒ BASE METAL ☒ WELD METAL

LINEARITY CHECK

VERTICAL

SIGNAL 1	100	90	80	70	60	50	40	30	20	10
SIGNAL 2	50	45	40	35	30	25	20	15	10	5

SIGNAL 2 SHALL EQUAL 50% OF SIGNAL 1 ± 5% OF FULL SCALE

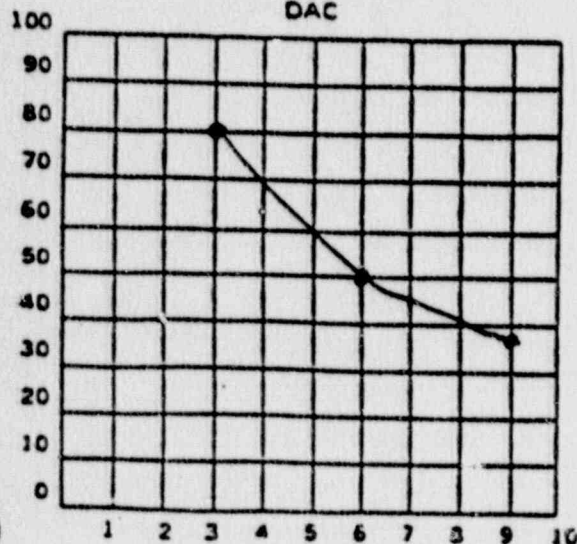
ATTENUATOR

TESTER GAIN	SET	-6	-12	SET	+12	SET	+6
SIGNAL AMP	80%	32 to 48	16 to 24	20%	64 to 96	40%	64 to 96
		40	20		80		80

DAILY LINEARITY CHECKS SATISFACTORY REFER TO CAL. NO. _____

DISTANCE AMPLITUDE CURVE

DAC



SCALE RANGE: 0"-1" ☐ 0"-2" ☐ 0"-5" ☒ 0"-20" ☐
0"-1" ☐ 0"-4" ☐ 0"-10" ☐ 0-100" ☐

INSTRUMENT SET UP

FREQUENCY ☐ 1.0 ☒ 2.25 ☐ 5.0 ☐ OTHER _____
SENSITIVITY/GAIN 18 FINE/db ☒ COARSE/db _____
RANGE 1X DAMPING N/A
SWEEP/MAT'L. CAL 8.74 FILTER OFF
DELAY 8.10 REJECT OFF
REP. RATE Factory Set JACK ☒ R ☐ T

UT EXAMINATION DATA SHEET No (s): _____

ORIGINAL



HOLLAND
11-17-89

Payne APOL
4/13/89

JOB# 798961

CERTIFIED REPORT of NONDESTRUCTIVE EXAMINATION

CUSTOMER Arkansas Power and Light		DATE 11-1-89	
ADDRESS Arkansas Nuclear ONE		CONTROL NO. OR REPORT NO. UT-0006-2	
JOB OR PROJECT LOCATION Russellville, Arkansas 72801		PLAN OR DRG. NO. 2CCA-25-3 Rev 9	
SURFACE CONDITION AS Ground		HEAT NO. N/A	HEAT TREAT BEFORE <input checked="" type="checkbox"/> N/A AFTER <input type="checkbox"/>
TYPE OF EXAMINATION UT 25 <input type="checkbox"/> MT <input type="checkbox"/> PT <input type="checkbox"/>		EXAMINATION STANDARD 22.A.59 Rev 354-2	ACCEPTANCE STANDARD Para 4.9.2 of →
		N.D.T. PROCEDURE NO. 22.A.59 Rev 35	

EQUIPMENT Krautkramer USK6		TRANSDUCER Horisonic D9585	TEST BLOCK UT-28	METHOD USED Shear Wave	SCANNING METHOD Contact	SENSITIVITY LEVEL 80% 11-1-89
--------------------------------------	--	--------------------------------------	----------------------------	----------------------------------	-----------------------------------	---

EQUIPMENT N/A		DRY <input type="checkbox"/> VISIBLE <input type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> AMPERAGE	PROD. SPACING	PARTICLES - COLOR
		WET <input type="checkbox"/> FLUORESCENT <input type="checkbox"/> RECTIFIED <input type="checkbox"/>	HEAD <input type="checkbox"/> CONT. <input type="checkbox"/>	

METHOD N/A		PENETRANT		CLEANER		EMULSIFIER		DEVELOPER	
		BRAND NO.	BATCH NO.	DWELL TIME	BRAND NO.	BATCH NO.	BRAND NO.	BATCH NO.	DEV. TIME
									DRY <input type="checkbox"/> WET <input type="checkbox"/>

PART NO. 25I-27B	TOTAL LENGTH EXAMINED FEET N/A INCHES	TYPE OF WORK NEW <input checked="" type="checkbox"/> REPAIR <input type="checkbox"/>	NO. OF ITEMS ACCEPTED 1	NO. OF ITEMS REJECTED 0
----------------------------	---	---	-----------------------------------	-----------------------------------

C - Cracks P - Porosity NF - Non-Fusion LI - Linear Indication S - Slag LA - Lamination OTHER - Specify

PC # OR SN #	ACC	REJ	DEFECT CODE	REMARKS	PC # OR SN #	ACC	REJ	DEFECT CODE	REMARKS
FW-4C1	X			NO APPARENT INDICATIONS					
Located - RB-335-50									
WELD Verified By Etching									
ISI EXAM # 25-062									
39-005									
N/A									
ORIGINAL									
N/A									

Technician [Signature]		SNT TC-1A Level II	
Asst. Technician [Signature]			
Customer Payne 11-3201			
Witnessed by		SIGNATURE	
ENCLOSURE ADDED Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Page 1 of 2	
Total Hours at Job Site N/A			
Lunch			
Standby			
Travel			
Total Hours			
Total Mileage			

United States Testing Co., Inc.

WALL THICKNESS, PROFILE, EXAM COVERAGE SHEET

NDEN

WELD NO: FW3C1

DWG: 2CCA-25-3

SYSTEM: SDS Section I Valve

INSTRUCTION NO: _____

REV: _____

QA RECORD

NON QA RECORD

RT

DATE

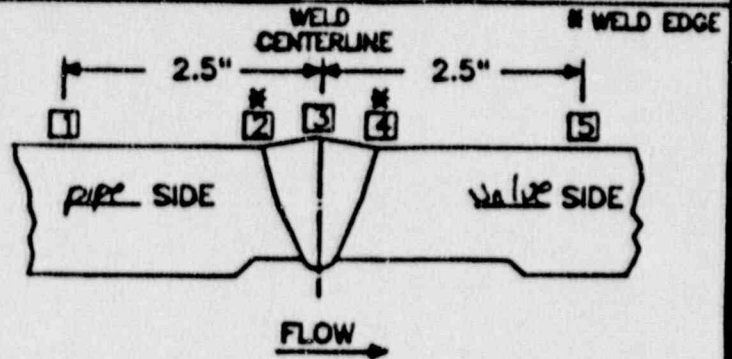
NO. PAGES

PAGES

RELATED DOCUMENT NUMBER

RECORD THICKNESS MEASUREMENTS AS INDICATED, INCLUDING WELD WIDTH, EDGE-TO-EDGE AT 0°

POSITION	CP	OTHER
1	460	
2	.480	
3	.500	
4	.500	
5	.480	



INSTRUMENT: Kruetz Kramer USK6

SERIAL NO: 10540

TRANSDUCER: Harisonic

SERIAL NO: 09587

SIZE: 1/2" FREQ: 2.25 MHz

COUPLANT: ultra 601 II Butch #8976

DELAY: 780

RANGE: 1X

SWEEP/MATL CAL: 220

GAIN/COARSE: 0 FINE: 6

CAL BLK NO: BB-5/R6

INITIAL:

FINAL:

THICKNESS: 0.500" / 0.100"

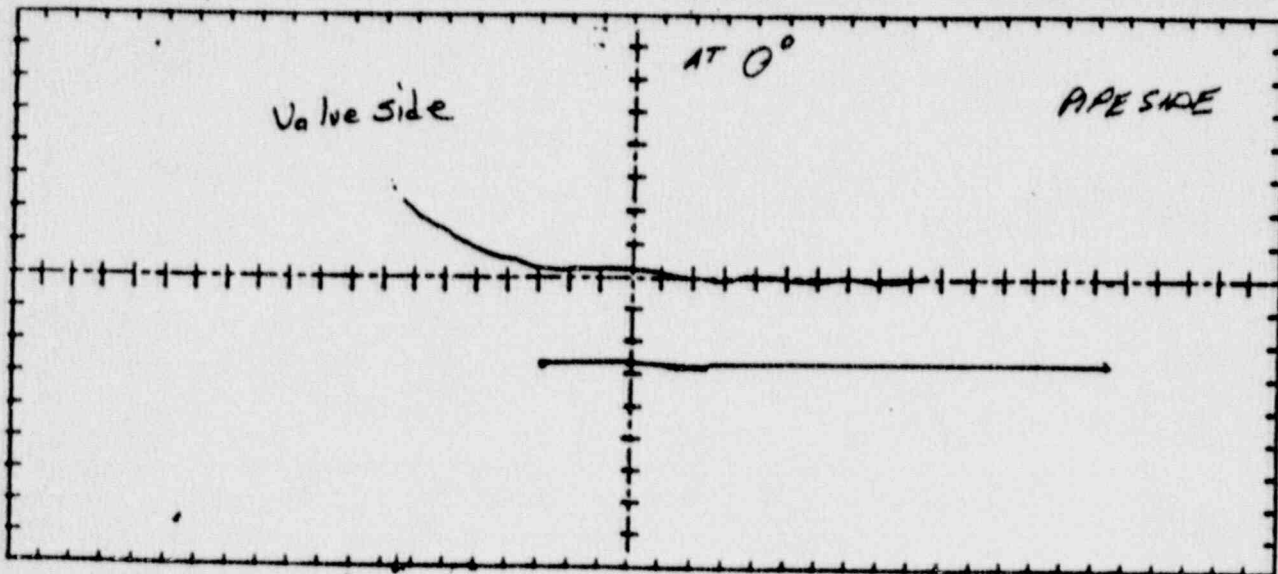
BATCH NO: _____

COMMENTS: _____

CROWN WIDTH: 1/8"

CROWN HEIGHT: Flush

DIAMETER: 3.5"



EXAMINED BY:

Steven C. Johnson

EXAMINED BY:

OP FINAL REVIEW:

LEVEL: #

DATE: 11-1-89

LEVEL:

DATE:

DATE:

EXAM TIME:

DOSE:

☐ SUPPLEMENTAL DATA ATTACHED

PAGE

OF

REV. 1

NOEL AND
11-13-89

DeWayne APOL
11/13/89

ORIGINAL



United States Testing Company, Inc.
Unitech Services Group

WELL AND R. D. Payne APR 4
11-13-89 11/13/89

ULTRASONIC CALIBRATION SHEET

EXAMINATION PERSONNEL:

NAME Steven Johnson LEVEL II

NAME _____ LEVEL _____

REVIEWED BY _____ LEVEL _____

PLANT <u>AND</u>	UNIT <u>2</u>
CALIBRATION SHT. NO. _____	
DATE <u>11-1-89</u>	
PROJECT NO.	_____
FUNCTION NO.	_____
CHECKLIST NO.	_____
INITIAL CAL. TIME	<u>2:30 PM</u>
CAL. CHECK TIME	<u>2:30 PM</u>
FINAL CAL. TIME	<u>4:00 PM</u>
PROCEDURE NO. <u>22.A.59</u>	REV. <u>824-2</u>
TECHNIQUE NO.	REV. _____

EQUIPMENT

INSTRUMENT Krant Krumer SN 10540 CABLE BNC Micro-dot
RECORDER N/A SN N/A
TRANSDUCER Horisonic SN P9585 SIZE .25" FREQ. 2.25 MHz ANGLE 45°
CAL BLOCK No. UT-28 REF. REFL. Notch TEMP. 80 °F
REF. BLOCK DSC SN 2028-B2 REF. REFL. N/A TEMP. 80 °F
COUPLANT Ultras Gel II Bath # 8976 THERMOMETER SERIAL NO. 1838

TYPE EXAMINATIONS: ☒ ANGLE BEAM ☐ LONGITUDINAL ☒ BASE METAL ☒ WELD METAL

LINEARITY CHECK

VERTICAL

SIGNAL 1	100	90	80	70	60	50	40	30	20	10
SIGNAL 2	50	45	40	35	30	25	20	15	10	5

SIGNAL 2 SHALL EQUAL 50% OF SIGNAL 1 ± 5% OF FULL SCALE

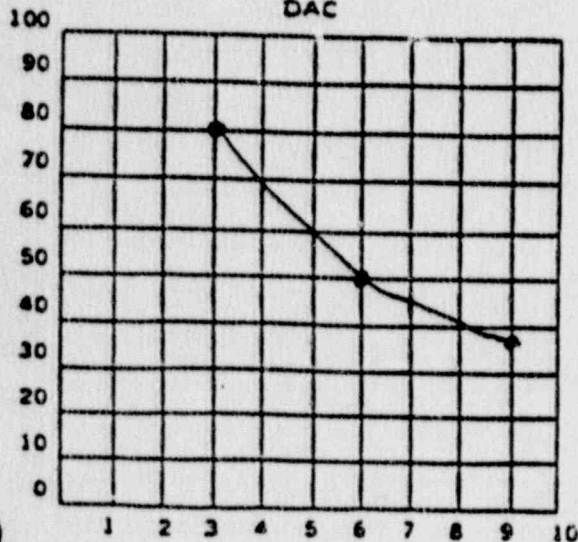
ATTENUATOR

TESTER GAIN	SET	-6	-12	SET	+12	SET	+6
SIGNAL AMP	80%	32 to 48	16 to 24	20%	64 to 96	40%	64 to 96
		40	20		80		80

DAILY LINEARITY CHECKS SATISFACTORY REFER TO CAL NO. _____

DISTANCE AMPLITUDE CURVE

DAC



INSTRUMENT SET UP

FREQUENCY ☐ 1.0 ☒ 2.25 ☐ 5.0 ☐ OTHER _____
SENSITIVITY/GAIN 18 FINE/db ☒ COARSE/db _____
RANGE 1X DAMPING N/A
SWEEP/MAT'L. CAL 8.74 FILTER OFF
DELAY 8.10 REJECT OFF
REP. RATE Factory Set JACK ☒ R ☐ T

UT EXAMINATION DATA SHEET No (s) _____

ORIGINAL



WELLING
11-13-89

Payne MP4L
11/13/89

JOB# 798961

CERTIFIED REPORT of NONDESTRUCTIVE EXAMINATION

CUSTOMER Arkansas Power and Light		DATE 11-1-89
ADDRESS Arkansas Nuclear ONE		CONTROL NO. OR REPORT NO. UT-00060
JOB OR PROJECT LOCATION Russellville, Arkansas 72801	P.O. NO. C-1091	PLAN OR Dwg. NO. 2CCA-25-3 Rev9
SURFACE CONDITION AS Ground	HEAT NO. N/A	HEAT TREAT BEFORE <input checked="" type="checkbox"/> AFTER <input checked="" type="checkbox"/>
TYPE OF EXAMINATION UT <input checked="" type="checkbox"/> MT <input type="checkbox"/> PT <input type="checkbox"/>	EXAMINATION STANDARD 22.A.59 Rev3524-2	ACCEPTANCE STANDARD Para # 9.2 of
		TYPE OF MATERIAL S/S
		TEMP OF MAT'L 800 DA
		N.D.T. PROCEDURE NO. 22.A.59 Rev85

ULTRASONIC EXAMINATION					
EQUIPMENT KrautKramer USK6	TRANSDUCER Horisonic D95B5	TEST BLOCK UT-2B	METHOD USED Shear Wave	SCANNING METHOD Contact	SENSITIVITY LEVEL 80dB 11-1-89

MAGNETIC PARTICLE EXAMINATION					
EQUIPMENT N/A	DRY <input type="checkbox"/> VISIBLE <input type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> AMPERAGE	WET <input type="checkbox"/> FLUORESCENT <input type="checkbox"/> RECTIFIED <input type="checkbox"/>	PROD. SPACING	PARTICLES - COLOR	

LIQUID PENETRANT EXAMINATION											
METHOD N/A	PENETRANT		CLEANER		EMULSIFIER		DEVELOPER				
PART NO. 25I-27B	BRAND NO.	BATCH NO.	DWELL TIME	BRAND NO.	BATCH NO.	BRAND NO.	BATCH NO.	EMULS. TIME	BRAND NO.	BATCH NO.	DEV. TIME
TYPE OF DEFECTS CODE		TOTAL LENGTH EXAMINED		TYPE OF WORK		NO. OF ITEMS ACCEPTED		NO. OF ITEMS REJECTED			
		FEET 4/4 INCHES		NEW <input checked="" type="checkbox"/> REPAIR <input type="checkbox"/>		1		0			

C - Cracks P - Porosity NF - Non Fusion LI - Linear Indication S - Slag LA - Lamination OTHER - Specify											
PC OR SNO	ACC	REJ	DEFECT CODE	REMARKS	PC OR SNO	ACC	REJ	DEFECT CODE	REMARKS		
FW-4C1	X			NO APPARENT INDICATIONS							
Located - RB-335-50											
WELD Verified By Etching											
ISI EXAM # 25-062											
39-005											
N/A											

ORIGINAL

Technician [Signature]		SNT-TC-1A Level II
Asst. Technician [Signature]		
Customer Joe Ray 11-3-89		
Witnessed by		SIGNATURE
ENCLOSURE ADDED Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Page 1 of 2
Total Hours of Job N/A		
Lunch Standby Travel		
Total Man-Hours		

United States Testing Co., Inc.

Assumes no responsibility for losses of any kind due to interpretation

WALL THICKNESS, PROFILE, EXAM COVERAGE SHEET

NDEN

WELD NO: FN3C1

DWG: 2CCA-25-3

SYSTEM: SDX Section 2A/4100

INSTRUCTION NO: _____

REV: _____

QA RECORD

NON QA RECORD

RT

DATE

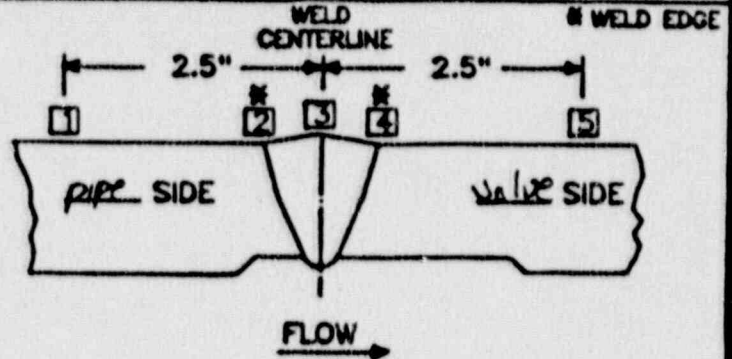
NO. PAGES

INITIALS

RELATED DOCUMENT NUMBER

RECORD THICKNESS MEASUREMENTS AS INDICATED, INCLUDING WELD WIDTH, EDGE-TO-EDGE AT 0°

POSITION	0°	OTHER
1	.460	
2	.480	
3	.500	
4	.500	
5	.480	



INSTRUMENT: Krust Kramer USK6

SERIAL NO: 10540

TRANSDUCER: Harisonic

SERIAL NO: D9587

SIZE: Y2" FREQ: 2.25 MHz

COUPLANT: ultra 601 II Butch #8976

DELAY: 780

RANGE: 1X

SWEEP/MATL CAL: 220

GAIN/COARSE: 0 FINE: 6

CAL BLK NO: BB-5186

INITIAL: _____

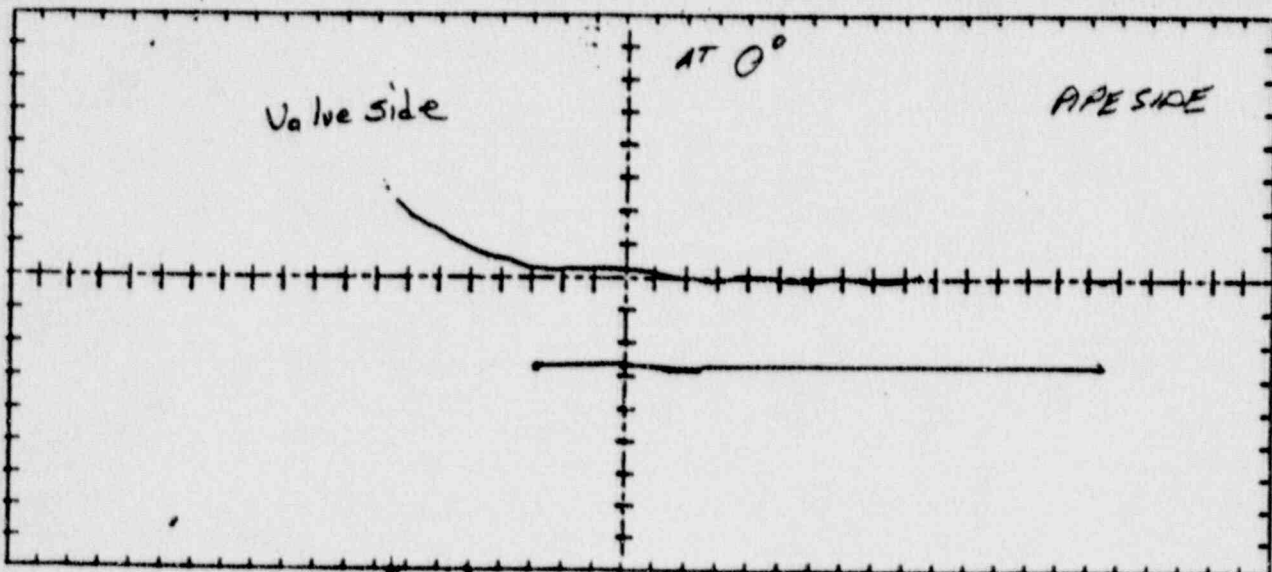
FINAL: _____

THICKNESS: 0.500" / 0.100"

BATCH NO: _____

COMMENTS: _____

CROWN WIDTH: 3/8" CROWN HEIGHT: Flush DIAMETER: 3.5"



EXAMINED BY:

Steven C. Johnson

EXAMINED BY:

OP FINAL REVIEW:

LEVEL: #

DATE: 11-1-89

LEVEL: _____

DATE: _____

DATE: _____

EXAM TIME: _____

DOSE: _____

☐ SUPPLEMENTAL DATA ATTACHED

PAGE OF

WEL 6117
11-13-89

DeWayne Apple
11/13/89

ORIGINAL

REV. 1

WALL THICKNESS, PROFILE, EXAM COVERAGE SHEET

NDEN

WELD NO: FW3C1

DWG: 2CCA-25-3

SYSTEM: SDS Section INLINE

INSTRUCTION NO: _____

REV: _____

QA RECORD

NON QA RECORD

RT

DATE

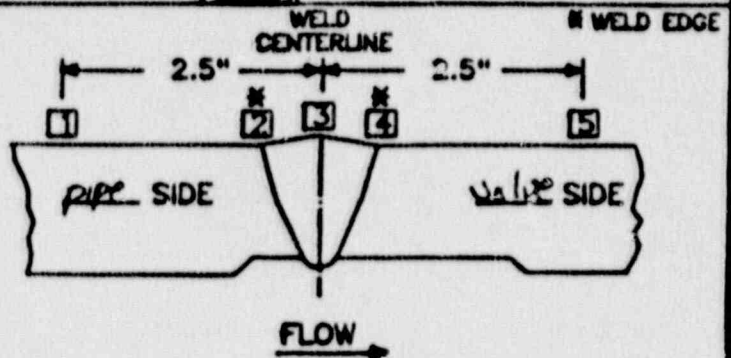
NO. PAGES

INITIALS

RELATED DOCUMENT NUMBER

RECORD THICKNESS MEASUREMENTS AS INDICATED, INCLUDING WELD WIDTH, EDGE-TO-EDGE AT 0°

POSITION	Ø	OTHER
1	.460	
2	.480	
3	.500	
4	.500	
5	.480	



INSTRUMENT: Kruet Kramer WSK6

SERIAL NO: 10540

TRANSDUCER: Harisonic

SERIAL NO: 09587

SIZE: Y2" FREQ: 2.25MHZ

COUPLANT: ultra 601 II Butch #8976

DELAY: 780

RANGE: 1A

SWEEP/MATL CAL: 220

GAIN/COARSE: 0 FINE: 6

CAL BLK NO: BB-5186

INITIAL: _____

FINAL: _____

THICKNESS: 0.500" / 0.100"

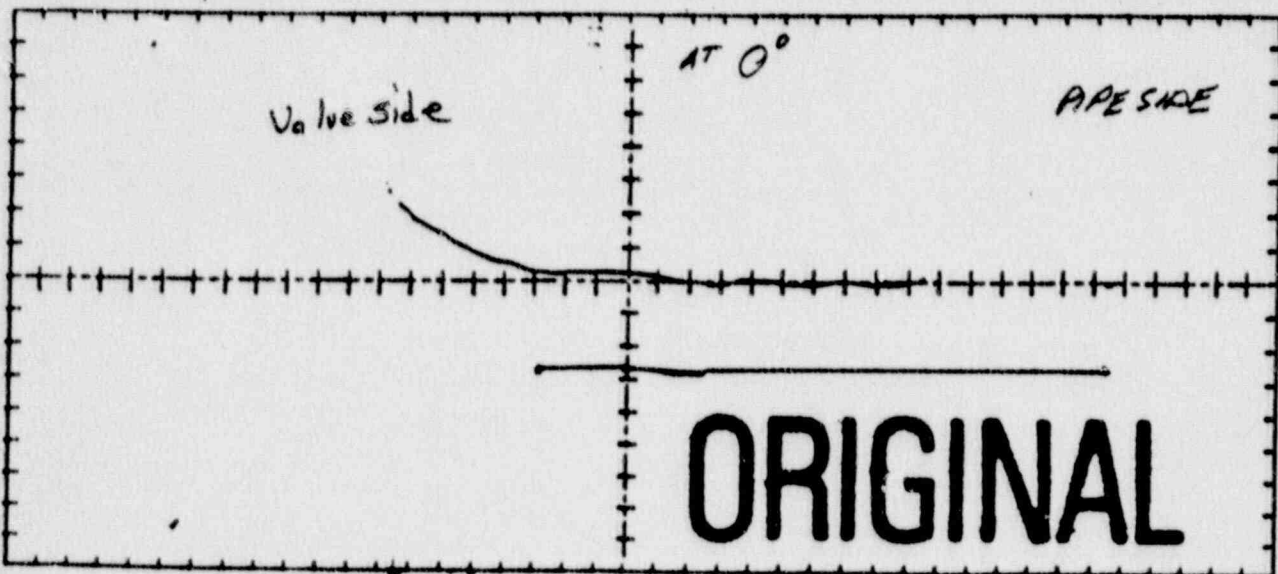
BATCH NO: _____

COMMENTS: _____

CROWN WIDTH: 3/8"

CROWN HEIGHT: Flush

DIAMETER: 3.5"



EXAMINED BY:

Steven C. Johnson

EXAMINED BY:

OP FINAL REVIEW:

LEVEL: #

DATE: 11-1-89

LEVEL: _____

DATE: _____

DATE: _____

EXAM TIME: _____

DOSE: _____

☐ SUPPLEMENTAL DATA ATTACHED

PAGE OF

REV. 1

THBELANIT
11-13-89

SDS Payne APCL
11/13/89



United States Testing Company, Inc.
Unitech Services Group

NO. 41111 11-13-89
R. Payne A. P. H. 11/13/89

ULTRASONIC CALIBRATION SHEET

EXAMINATION PERSONNEL:

NAME Steven Johnson LEVEL I

NAME _____ LEVEL _____

REVIEWED BY _____ LEVEL _____

PLANT <u>AND</u>	UNIT <u>2</u>
CALIBRATION SHT. NO. _____	
DATE <u>11-1-89</u>	
PROJECT NO. _____	
FUNCTION NO. _____	
CHECKLIST NO. _____	
INITIAL CAL. TIME	<u>2:30 PM</u>
CAL. CHECK TIME	<u>2:30 PM</u>
FINAL CAL. TIME	<u>4:00 PM</u>
PROCEDURE NO. <u>22.A.59</u>	REV. <u>824-2</u>
TECHNIQUE NO. _____	REV. _____

EQUIPMENT

INSTRUMENT Krant Krumer SN 10540 CABLE BNC Micro-dot
RECORDER N/A SN N/A
TRANSDUCER Horisonic SN 09525 SIZE .25" FREQ. 2.25 MHz ANGLE 45°
CAL BLOCK No. LT-28 REF. REFL. Notch TEMP. 80 °F
REF. BLOCK OSC SN 2028-82 REF. REFL. N/A TEMP. 80 °F
COUPLANT Ultera Gel II Bath # 8976 THERMOMETER SERIAL NO. 1838

TYPE EXAMINATIONS: ☒ ANGLE BEAM ☐ LONGITUDINAL ☒ BASE METAL ☒ WELD METAL

LINEARITY CHECK

VERTICAL

SIGNAL 1	100	90	80	70	60	50	40	30	20	10
SIGNAL 2	50	45	40	35	30	25	20	15	10	5

SIGNAL 2 SHALL EQUAL 50% OF SIGNAL 1 ± 5% OF FULL SCALE

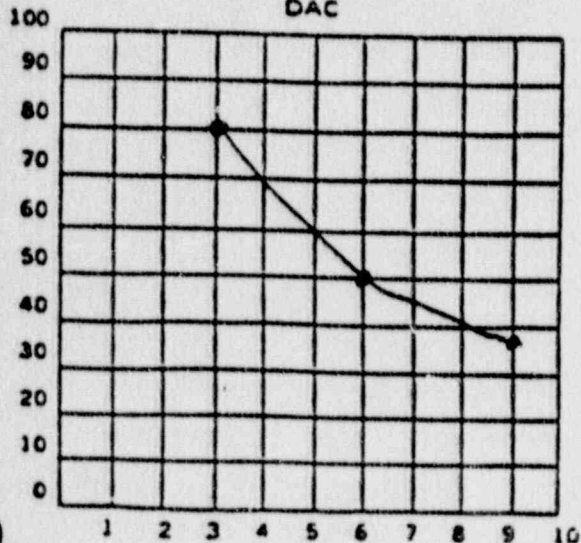
ATTENUATOR

TESTER GAIN	SET	-6	-12	SET	+12	SET	+6
SIGNAL AMP	80%	32 to 48	16 to 24	20%	64 to 96	40%	64 to 96
		40	20		80		80

DAILY LINEARITY CHECKS SATISFACTORY REFER TO CAL. NO. _____

DISTANCE AMPLITUDE CURVE

DAC



SCALE RANGE: 0"-5" ☐ 0"-2" ☐ 0"-5" ☒ 0"-20" ☐
0"-1" ☐ 0"-4" ☐ 0"-10" ☐ 0-100" ☐

INSTRUMENT SET UP

FREQUENCY ☐ 1.0 ☒ 2.25 ☐ 5.0 ☐ OTHER _____
SENSITIVITY/GAIN 18 FINE/db 0 COARSE/db _____
RANGE 1X DAMPING N/A
SWEEP/MAT'L. CAL 8.74 FILTER OFF
DELAY 8.10 REJECT OFF
REP. RATE Factory Set JACK ☒ R ☐ T

UT EXAMINATION DATA SHEET No (s):

ORIGINAL

44-13-89

W. Payne A P & L
11/15/89

JOB# 764754

CERTIFIED REPORT of NONDESTRUCTIVE EXAMINATION

CUSTOMER		Arkansas Power and Light		DATE	11-1-89
ADDRESS		Arkansas Nuclear ONE		CONTROL NO. OR REPORT NO.	UT-0007-2
JOB OR PROJECT LOCATION		Russellville, Arkansas 72801		P.D. NO.	C-1091
SURFACE CONDITION		AS Ground		HEAT NO.	N/A
				HEAT TREAT	BEFORE <input type="checkbox"/> N/A <input checked="" type="checkbox"/> AFTER <input type="checkbox"/>
				TYPE OF MATERIAL	S/S
				TEMP. OF MAT'L	600° DAE
TYPE OF EXAMINATION		EXAMINATION STANDARD		ACCEPTANCE STANDARD	
UT <input checked="" type="checkbox"/> MT <input type="checkbox"/> PT <input type="checkbox"/>		22. A. 5.9 Rev 3524-2		Para # 9.2 of →	
				N.D.T. PROCEDURE NO. 22. A. 5.9 Rev 8324	

ULTRASONIC EXAMINATION					
EQUIPMENT	TRANSDUCER	TEST BLOCK	METHOD USED	SCANNING METHOD	SENSITIVITY LEVEL
KrautKramer USK 6	Horisonic D9585	UT-2B	Shear Wave	Contact	80%

MAGNETIC PARTICLE EXAMINATION							
EQUIPMENT	DRY <input type="checkbox"/>	VISIBLE <input checked="" type="checkbox"/>	AC <input type="checkbox"/>	DC <input type="checkbox"/>	AMPERAGE	PROD SPACING	PARTICLES - COLOR
N/A	WET <input type="checkbox"/>	FLUORESCENT <input checked="" type="checkbox"/>		RECTIFIED <input type="checkbox"/>		HEAD <input type="checkbox"/> COIL <input type="checkbox"/>	

LIQUID PENETRANT EXAMINATION												
METHOD	PENETRANT			CLEANSER		EMULSIFIER		DEVELOPER				
	BRAND NO.	BATCH NO.	DWELL TIME	BRAND NO.	BATCH NO.	BRAND NO.	BATCH NO.	EMULS. TIME	BRAND NO.	BATCH NO.	DEV. TIME	DRY <input type="checkbox"/> NON WET <input type="checkbox"/> AQUEOUS
N/A												
PART NO.	TOTAL LENGTH EXAMINED					TYPE OF WORK		NO. OF ITEMS ACCEPTED		NO. OF ITEMS REJECTED		
25I-29A	FEET _____ INCHES <u>N/A</u>					NEW <input checked="" type="checkbox"/> REPAIR <input type="checkbox"/>		1		0		
SCALE OF DEFECTS CODE												

C - Cracks		P - Porosity		NF - Non-Fusion		LI - Linear Indication		S - Slag		LA - Lamination		OTHER - Specify	
PC # OR SN #	ACC	REJ	DEFECT CODE	REMARKS	PC # OR SN #	ACC	REJ	DEFECT CODE	REMARKS				
FW-31	X			NO APPARENT INDICATIONS									
WELD verified By Etching													
located RB-335-315													
SI EXAM# 25-037													
N/A					N/A								
ORIGINAL													

~~_____ A.M. _____ A.M. Technician _____~~
~~_____ P.M. _____ P.M. Asst. Technician _____~~
 Total Hours at Jobsite N/A
 Lunch _____ Secondary _____ Travel _____
 Total Hours _____ Total Mileage _____

SNT-TC-1A
 Level II

Customer Jon Ray 11-3-84

Witnessed by _____ SIGNATURE _____

ENCLOSURE ADDED
 Yes ☐ No ☐

United States Testing Co., Inc.

assumes no responsibility for losses of any kind due to interpretation

WALL THICKNESS, PROFILE, EXAM COVERAGE SHEET

NDEN

WELD NO: FW31C1

DWG: 2CCA-25-3

SYSTEM: SDC Section IN

INSTRUCTION NO: _____

REV: _____

QA RECORD

NON QA RECORD

RT

DATE

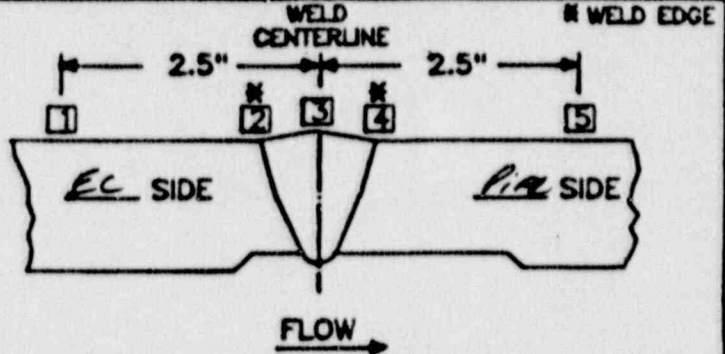
NO. PAGES

INITIALS

RELATED DOCUMENT
NUMBER

RECORD THICKNESS MEASUREMENTS AS
INDICATED, INCLUDING WELD WIDTH,
EDGE-TO-EDGE AT 0°

POSITION	Ø	OTHER
1	480	
2	990	
3	520	
4	500	
5	500	



INSTRUMENT: Kraut Kramer USK6

SERIAL NO: 10540

TRANSDUCER: D9587 Harisonic

SERIAL NO: D9587

SIZE: 1/2" FREQ: 2.25 MHz

COUPLANT: Ultrac Gel II Batch # 8976

DELAY: 780

RANGE: 1X

SWEEP/MATL CAL: 220

GAIN/COARSE: 0 FINE: 6

CAL BLK NO: 88-5186

INITIAL: _____

FINAL: _____

THICKNESS: 0.500" / 0.100"

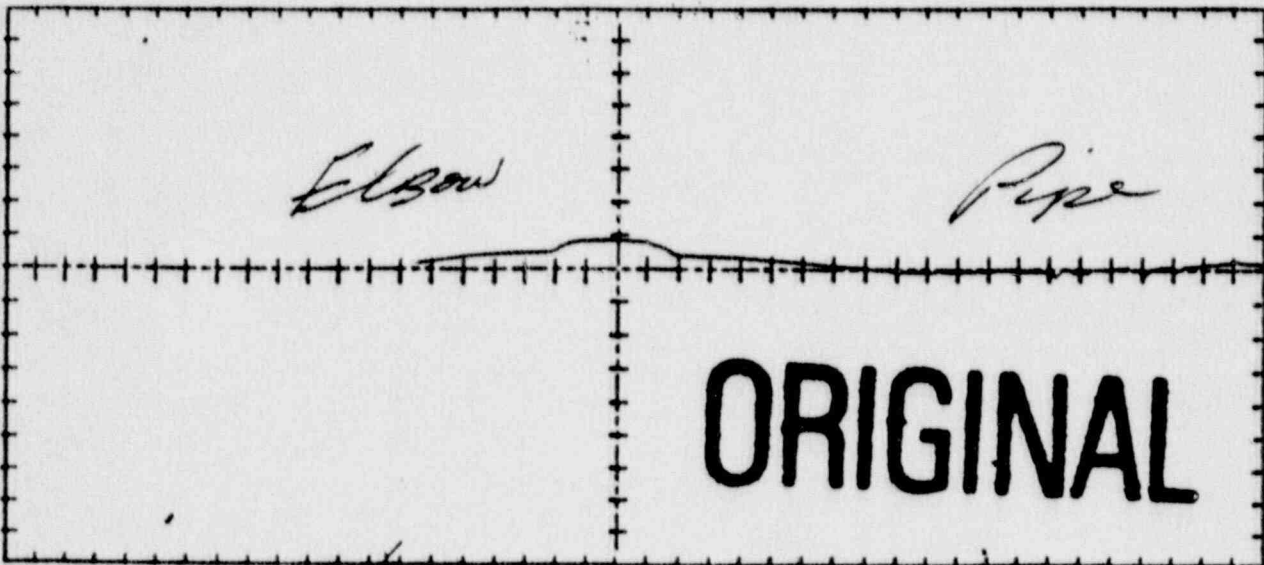
BATCH NO: _____

COMMENTS: _____

CROWN WIDTH: 3/4"

CROWN HEIGHT: 1/16"

DIAMETER: 3.5"



EXAMINED BY:

Steven C. Johnson

EXAMINED BY:

OP FINAL REVIEW:

LEVEL: II

DATE: 11-1-89

LEVEL: _____

DATE: _____

DATE: _____

EXAM TIME: _____

DOSE: _____

☐ SUPPLEMENTAL DATA ATTACHED

PAGE OF

REV. 1

MS E&A U II
41-13-87

RD Payne APVL
11/13/89



United States Testing Company, Inc.
Unitech Services Group

22 Payne APK
11/13/89

ULTRASONIC CALIBRATION SHEET

MS EDA NT
11-13-89

EXAMINATION PERSONNEL:

NAME Steven Johnson LEVEL II

NAME _____ LEVEL _____

REVIEWED BY _____ LEVEL _____

PLANT <u>AND</u>	UNIT <u>2</u>
CALIBRATION SHT. NO. _____	
DATE <u>11-1-89</u>	
PROJECT NO.	_____
FUNCTION NO.	_____
CHECKLIST NO.	_____
INITIAL CAL. TIME	<u>2:30 PM</u>
CAL. CHECK TIME	<u>2:30 PM</u>
FINAL CAL. TIME	<u>4:00 PM</u>
PROCEDURE NO. <u>22.A.59</u>	REV. <u>324-2</u>
TECHNIQUE NO.	REV. _____

EQUIPMENT

INSTRUMENT Kraut Krumer S/N 10540 CABLE BNC Micro-dot
RECORDER N/A S/N N/A
TRANSDUCER Horisonic S/N 09525 SIZE .25" FREQ. 2.25 MHz ANGLE 45°
CAL BLOCK No. UT-28 REF. REFL. Notch TEMP. 80° F
REF. BLOCK DSC S/N 2020-83 REF. REFL. N/A TEMP. 80° F
COUPLANT Ultera Gel II Part # 876 THERMOMETER SERIAL NO. 1838

TYPE EXAMINATIONS: ☒ ANGLE BEAM ☐ LONGITUDINAL ☒ BASE METAL ☒ WELD METAL

LINEARITY CHECK

VERTICAL

SIGNAL 1	100	90	80	70	60	50	40	30	20	10
SIGNAL 2	50	45	40	35	30	25	20	15	10	5

SIGNAL 2 SHALL EQUAL 50% OF SIGNAL 1 ± 5% OF FULL SCALE

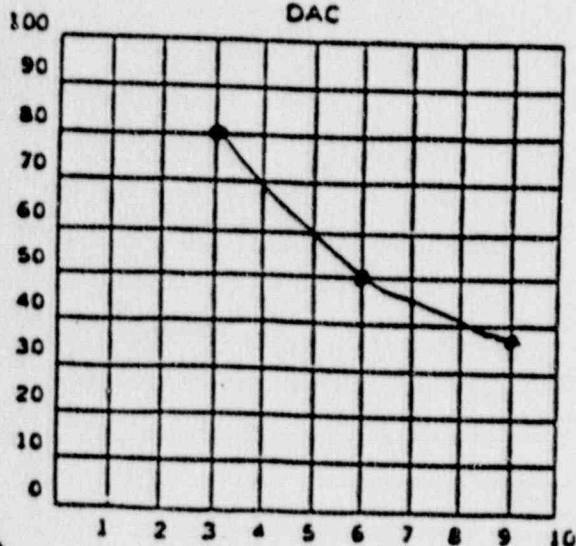
ATTENUATOR

TESTER GAIN	SET	-6	-12	SET	+12	SET	+6
SIGNAL AMP	80%	32 to 48	16 to 24	20%	64 to 96	40%	64 to 96
		40	20		80		80

DAILY LINEARITY CHECKS SATISFACTORY REFER TO CAL. NO. _____

DISTANCE AMPLITUDE CURVE

DAC



INSTRUMENT SET UP

FREQUENCY ☐ 1.0 ☒ 2.25 ☐ 5.0 ☐ OTHER _____
SENSITIVITY/GAIN 18 FINE/db 0 COARSE/db _____
RANGE 1X DAMPING N/A
SWEEP/MAT'L. CAL 8.74 FILTER OFF
DELAY 8.10 REJECT OFF
REP. RATE Factory Set JACK ☒ R ☐ T
UT EXAMINATION DATA SHEET No (s): _____

ORIGINAL

SCALE RANGE: 0"-1" ☐ 0"-2" ☐ 0"-5" ☒ 0"-20" ☐
0"-1" ☐ 0"-4" ☐ 0"-10" ☐ 0-100% ☐



MBELAND 11-13-89
DePayne APPL 11/13/89

JOB# 764754
CERTIFIED REPORT of NONDESTRUCTIVE EXAMINATION

CUSTOMER Arkansas Power and Light		DATE 11-1-89	
ADDRESS Arkansas Nuclear ONE		CONTROL NO. OR REPORT NO. UT-0007-2	
JOB OR PROJECT LOCATION Russellville, Arkansas 72801		P.D. NO. C-1091	
SURFACE CONDITION AS Ground		HEAT NO. N/A	HEAT TREAT N/A
TYPE OF EXAMINATION UT		EXAMINATION STANDARD 22.A.59 Rev 3524-2	ACCEPTANCE STANDARD Para # 9.2 of
TYPE OF DEFECTS CODE UT		N.D.T. PROCEDURE NO. 22.A.59 Rev 83	

EQUIPMENT Krautkramer USK6		TRANSDUCER Harisonic D9585	TEST BLOCK UT-2B	METHOD USED Shear Wave	SCANNING METHOD Contact	SENSITIVITY LEVEL 80%
--------------------------------------	--	--------------------------------------	----------------------------	----------------------------------	-----------------------------------	---------------------------------

EQUIPMENT N/A		DRY <input type="checkbox"/>	VISIBLE <input type="checkbox"/>	AC <input type="checkbox"/>	DC <input type="checkbox"/>	AMPERAGE	PROD. SPACING	PARTICLES - COLOR
		WET <input type="checkbox"/>	FLUORESCENT <input type="checkbox"/>	RECTIFIED <input type="checkbox"/>				

METHOD N/A		PENETRANT		CLEANER		EMULSIFIER		DEVELOPER	
		BRAND NO.	BATCH NO.	OWELL TIME	BRAND NO.	BATCH NO.	BRAND NO.	BATCH NO.	DEV. TIME
PART NO. 2SI-29A		TOTAL LENGTH EXAMINED		TYPE OF WORK		NO. OF ITEMS ACCEPTED		NO. OF ITEMS REJECTED	
TYPE OF DEFECTS CODE		FEET N/A INCHES		NEW <input checked="" type="checkbox"/> REPAIR <input type="checkbox"/>		1		0	

C - Cracks		P - Porosity		NF - Non Fusion		LI - Linear Indication		S - Slag		LA - Lamination		OTHER - Specify		
PC OR SN#	ACC	REJ	DEFECT CODE	REMARKS	PC OR SN#	ACC	REJ	DEFECT CODE	REMARKS	PC OR SN#	ACC	REJ	DEFECT CODE	REMARKS
FW-31	X			NO APPARENT INDICATIONS										
WELD verified By Etching														
located RB-335-315														
ISI EXAM# 25-037														
N/A														
ORIGINAL														

A.M.		A.M.		Tolson		SNT-TC-1A Level II	
P.M.		P.M.		Asst. Tolson			
Total Hours or Job		N/A		Customer		Jon Ray 11-3-89	
Lunch		Standby		Witnessed by		SIGNATURE	
Total Hours		Total Mileage		ENCLOSURE ADDED		Page of	
				Yes <input type="checkbox"/> No <input type="checkbox"/>			

United States Testing Co., Inc.

WALL THICKNESS, PROFILE, EXAM COVERAGE SHEET

NDEN

WELD NO: FW31C1

DWG: 2CCA-25-3

SYSTEM: SDC Section IN

INSTRUCTION NO: _____

REV: _____

QA RECORD

NON QA RECORD

RT

DATE

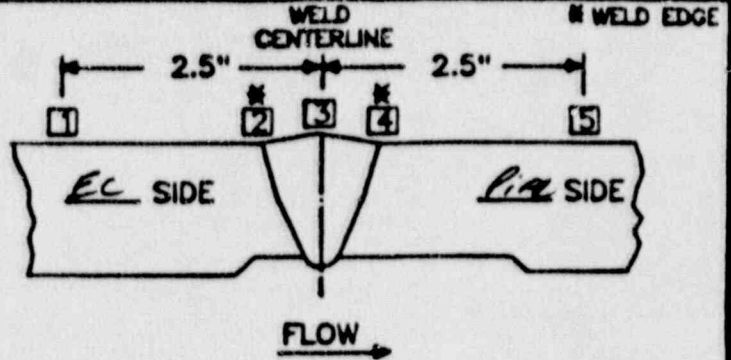
NO. PAGES

INITIALS

RELATED DOCUMENT NUMBER

RECORD THICKNESS MEASUREMENTS AS INDICATED, INCLUDING WELD WIDTH, EDGE-TO-EDGE AT 0°

POSITION	Ø	OTHER
1	480	
2	490	
3	520	
4	500	
5	500	



INSTRUMENT: Kraut Kramer USK6

SERIAL NO: 10540

TRANSDUCER: D9587 Harrisonic

SERIAL NO: D9587

SIZE: 1/2" FREQ: 2.25 MHz

COUPLANT: Ultra Gel II Batch # 8976

DELAY: 780

RANGE: 1X

SWEEP/MATL CAL: 220

GAIN/COARSE: 0 FINE: 6

CAL BLK NO: 88-5186

INITIAL:

FINAL:

THICKNESS: 0.500" / 0.100"

BATCH NO: _____

COMMENTS: _____

CROWN WIDTH: 3/4"

CROWN HEIGHT: 1/16"

DIAMETER: 3.5"



EXAMINED BY:

Steven C. Johnson

EXAMINED BY:

OP FINAL REVIEW:

LEVEL: II

DATE: 11-1-89

LEVEL:

DATE:

DATE:

EXAM TIME:

DOSE:

☐ SUPPLEMENTAL DATA ATTACHED

PAGE OF

WEL-AUT
11-13-89

DePayne APQC
11/13/89

REV. 1



United States Testing Company, Inc.
Unitech Services Group

ULTRASONIC CALIBRATION SHEET

EXAMINATION PERSONNEL:

NAME Steven Johnson LEVEL II

NAME _____ LEVEL _____

REVIEWED BY _____ LEVEL _____

PLANT AND UNIT 2
CALIBRATION SHT. NO. _____
DATE 11-1-89
PROJECT NO. _____
FUNCTION NO. _____
CHECKLIST NO. _____
INITIAL CAL. TIME 2:30 PM
CAL. CHECK TIME 2:30 PM
FINAL CAL. TIME 4:00 PM
PROCEDURE NO. 22.A.59 REV. 224-2
TECHNIQUE NO. _____ REV. _____

EQUIPMENT

INSTRUMENT Krant Krumer SN 10540 CABLE BNL Micro-dot
RECORDER N/A SN N/A
TRANSDUCER Horizonic SN 07525 SIZE .25" FREQ. 2.25 MHz ANGLE 45°
CAL BLOCK No. UT-28 REF. REFL. Notch TEMP. 80 °F
REF. BLOCK NSC SN 2028-82 REF. REFL. N/A TEMP. 80 °F
COUPLANT Ultra Gel II Part # 8176 THERMOMETER SERIAL NO. 1838

TYPE EXAMINATION: ☒ ANGLE BEAM ☐ LONGITUDINAL ☒ BASE METAL ☒ WELD METAL

LINEARITY CHECK

VERTICAL

SIGNAL 1	100	90	80	70	60	50	40	30	20	10
SIGNAL 2	50	45	40	35	30	25	20	15	10	5

SIGNAL 2 SHALL EQUAL 50% OF SIGNAL 1 ± 5% OF FULL SCALE

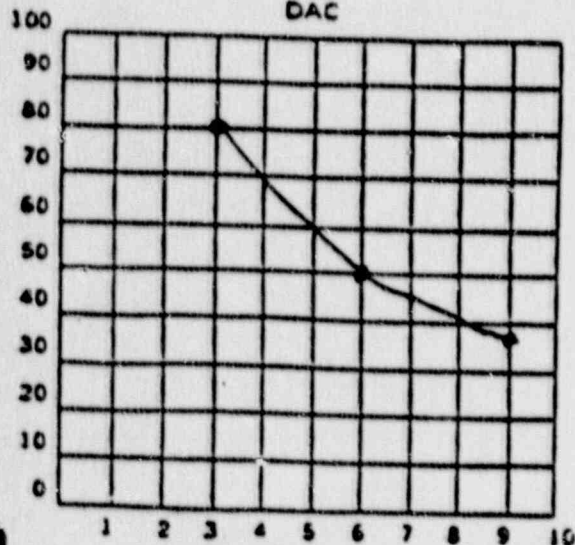
ATTENUATOR

TESTER GAIN	SET	-6	-12	SET	+12	SET	+6
SIGNAL AMP	80%	32 to 48	16 to 24	20%	64 to 96	40%	64 to 96
		40	20		80		80

DAILY LINEARITY CHECKS SATISFACTORY REFER TO CAL NO. _____

DISTANCE AMPLITUDE CURVE

DAC



INSTRUMENT SET UP

FREQUENCY ☐ 1.0 ☒ 2.25 ☐ 5.0 ☐ OTHER _____
SENSITIVITY/GAIN 1B FINE/db 0 COARSE/db _____
RANGE 1X DAMPING N/A
SWEEP/MAT'L. CAL 8.74 FILTER OFF
DELAY 8.10 REJECT OFF
REP. RATE Factory Set JACK ☒ R ☐ T
UT EXAMINATION DATA SHEET No (s): _____

ORIGINAL

WHEELAND
11-13-89

RD Payne APRC
11/13/89

HBE 4vII
11-13-89

Sect XI
DePayne A POL
11/13/89

JOB # 286 868

CERTIFIED REPORT of NONDESTRUCTIVE EXAMINATION

[illegible]

- Cracks P - Porosity NF - Non-Fusion LI - Linear Indication S - Slag LA - Lamination OTHER - Specificity

PC # OR SN#	ACC	REJ	DEFECT CODE	REMARKS	PC # OR SN#	ACC	REJ	DEFECT CODE	REMARKS
FW #4911	✓			NO indications noted Weld verified by Drawing & Etching ✓ Welding also Foreman (APIL) ✓ Done in APIL Fab shop.					
ORIGINAL									

ORIGINAL

I _____ A.M. _____ A.M.
 N _____ O
 _____ U
 _____ T _____ P.M.
 Total Hours at Job: N/A
 Search _____ Standby _____ Travel _____
 Total Hours _____ Total Mileage _____

Technician [Signature] BNT-TC1A Level II
 Asst. Technician N/A
 Customer JMR 10-2589
 Witnessed by N/A SIGNATURE
 ENCLOSURE ADDED
 Yes ☐ No ☒

Page 1 of 1

United States Testing Co., Inc.

assumes no responsibility for losses of any kind due to interpretation

SYSTEM LEAKAGE TESTS PERFORMED AT THE END OF REFUELING OUTAGE 2R7

Class 1 System Leakage Tests Performed During Startup from 2R7

NOTE: The 1092.11I forms that follow provide the results of the system leakage test prior to startup following the seventh refueling outage conducted per the 1974 Edition with addenda through Summer 1975 ASME Section XI, IWB-5210. The references in the "Remarks" section are to a later edition of Section XI. The visual examinations were performed with the primary system at normal operating pressure and temperature - 2300 psig and approximately 600 degrees F - unless otherwise noted.



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 03-042
- (3) Piping System of Component N/A
- (4) Description of Component 2E-24A Steam Generator
PRIMARY SIDE 650°F
- (5) Design Temperature SECONDARY SIDE 560°F (6) Pressure PRIMARY SIDE 2500 PSI
SECONDARY SIDE 1100 PSI
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure N/A Temperature N/A
Primary RC system was at pressure 2300 PSI
N/A 600°F 2-18-90
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 PSI
- (15) Time Completed Test 1800 (16) Test Gage No. Control Room
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
- (19) Test Accepted Yes ✓ No (Required only for hydro. & pressure test.)
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H& 24/12 & SWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

APGL

VT-2

ANI/ANII

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

Date

Date

Date

Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 04-042
- (3) Piping System of Component N/A
- (4) Description of Component 2E-24B Str. Gen.
PRIMARY 650°F
- (5) Design Temperature SECONDARY 560°F (6) Pressure PRIMARY 2500PSIA
SECONDARY 1100PSIA
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
Primary - 2250psig
- (9a) Normal Operating Pressure Secondary - 910psig Temperature Primary - 611°F
SEC. 530°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC-D CATEGORY C-H & 24112 & 3WD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A 1
AP&L Billy Gray Date 11-15-89
VT-2 NA Date 1
ANI/ANII Date

(24) Reviewed By:

DR Payne 11/21/89
ENGINEERING Date
J. Howard 12/15/90
QE Date
NBC 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ZSZ # 05-125
- (3) Piping System of Component N/A
- (4) Description of Component 271 Pressurizer Vessel
- (5) Design Temperature 700°F (6) Pressure 2500PSIA
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
RCS was at normal pressure & temperature per Sec. item 14.
- (9a) Normal Operating Pressure N/A Temperature N/A *2-18-91*
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Orbital Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

ORIGINAL

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P ANDIWC&D CATEGORY C-H & 24/12 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A
[Signature] Date 11-17-89
VT-2 N/A Date 1
ANI/ANII Date

[Signature] 11/21/89
ENGINEERING Date 12/15/89
[Signature] Date 11/22/89
QE NBEL Date
ANI/ANII



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ-06-012
- (3) Piping System of Component 2CCA-1- Nat Log
- (4) Description of Component Nat Log piping from 2E24A to R.V.
- (5) Design Temperature 650°F (6) Pressure 2985 psig
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2257 psig Temperature 601 °
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1715 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐

ORIGINAL

- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H & 24/12 & IWB-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

APL N/A 1
Phillips D Rye Date 11-17-89
VT-2 NA 1
ANI/ANII Date

(24) Reviewed By:

DePayne 11/21/89
ENGINEERING Date
Johnson 12/15/90
QE Date
NBCL 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 07-011
- (3) Piping System of Component 2CCA-2
- (4) Description of Component Noting from 2E24B to RV
- (5) Design Temperature 650°F (6) Pressure 2485 PSIG
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 611°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Cage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ✓ No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

Date

VT-2

Date

NA

Date

ANI/ANII

Date

(24) Reviewed By:

ENGINEERING

Date

QE

Date

ANI/ANII

Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 08-017
- (3) Piping System of Component 2CCA-5
- (4) Description of Component Cold Leg from 2P32B to 2E24A
- (5) Design Temperature 650°F (6) Pressure 2485 PSIG
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 553°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 2412 & 3WD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

VT-2

ANI/ANII

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

Date

Date

Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 09-017
- (3) Piping System of Component 2CCA-6
- (4) Description of Component Cold Leg from 2P328 to 2E24A
- (5) Design Temperature 650°F (6) Pressure 2485 PSIG
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 553°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWA-2500, CATEGORY B-P ANDIWC & D CATEGORY C-H & 24112 & 3WD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

VT-2

NA

ANI/ANII

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

Date

Date

Date

ORIGINAL



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 12-013
- (3) Piping System of Component 2CCA-3
- (4) Description of Component Old Leg from 2P32B to R.V.
- (5) Design Temperature 650°F (6) Pressure 2485PSIG
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 Temperature 553
- (10) Period of Time Pressure Held N/A
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any None
- (13) Time Started Test 12:15 (14) Gauge Pressure N/A
- (15) Time Completed Test 18:00 (16) Test Gage No. N/A
- (17) Date Test Conducted 11-15-89 (18) Calibration Date 2/8
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H& 24/12 + IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Date 11-15-89

VT-2 Ed Madg
Date 11-15-89

NA 1
Date 11-15-89

ANI/ANII 1
Date 11-15-89

DD Payne 11/21/89
ENGINEERING Date

John Ward 12/15/89
QE Date

14361 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # 757-11-R17
- (3) Piping System of Component 2CCA-4
- (4) Description of Component Cold Leg from 2P32A to 2E24A
- (5) Design Temperature 650°F (6) Pressure 2485PSIG
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 Temperature 55.3
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 PSIG
- (15) Time Completed Test 1800 (16) Test Gage No. Control Pm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE JWB-2500, CATEGORY B-P AND
JWC&D CATEGORY C-H & 24112 + JWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Date 11-17-89
VT-2 NA 1
Date 11-17-89
ANI/ANII NA 1
Date 11-17-89

DR Payne 11/21/89
ENGINEERING Date 11/21/89
Forward 11/22/89
QE Date 11/22/89
HBE 11/22/89
ANI/ANII Date 11/22/89



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ZSZ # 12-012
- (3) Piping System of Component 2CCA-7
- (4) Description of Component Cold Leg from 2P 32A to R.V.
- (5) Design Temperature 650°F (6) Pressure 2485 PSIG
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
Test was performed at normal RCS pressure & temperature. See item 14.
- (9a) Normal Operating Pressure N/A Temperature N/A plc
2600°F 2-18-90
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No
- (20) If No, Why
- (21) Retest Accepted Yes No

ORIGINAL

- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & 3WD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

APSL N/A Date 11/17/89
VT-2 Date
NA Date
ANI/ANTI Date

(24) Reviewed By:

D. D. Payne 11/21/89
ENGINEERING Date
J. Howard 12/15/89
QE Date
W. B. Ch 11/22/89
ANI/ANTI Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 13-012
- (3) Piping System of Component 2CCA-8
- (4) Description of Component Cold Leg from 2P32C to R.V.
- (5) Design Temperature 650°F (6) Pressure 2485PSIG
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 Temperature 553°F
- (10) Period of Time Pressure Held >4hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐

ORIGINAL

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

IWC & D CATEGORY C-H & 24112 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Billy Gray Date 11/15-89
VT-2 NA Date 1
ANI/ANII Date

DD Payne 11/21/89
ENGINEERING Date
John 12/15/90
QE Date
HBEL 1/12/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. 01

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 14-017
- (3) Piping System of Component 2CCA-9
- (4) Description of Component Cold Leg from 2P320 to 2E-24B
- (5) Design Temperature 650°F (6) Pressure 2485 psig
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐

ORIGINAL

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

IWC & D CATEGORY C-HR. 24112 & IWD-5000.

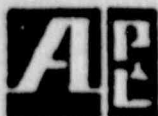
NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A 1
Date
Billy Gray 11/15-89
Date
NA 1
Date
ANI/ANII

(24) Reviewed By:

DD Payne 11/21/89
ENGINEERING Date
F. Howard 12/15/89
QE Date
NBE 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 15-011
- (3) Piping System of Component 2CCA-10
- (4) Description of Component Cold Leg from 2P32D to R.V.
- (5) Design Temperature 650°F (6) Pressure 2485PSIG
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250PSID Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs. (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs. (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H# 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Billy Gray Date 11-15-89
VT-2 NA Date 1
ANI/ANII Date

DD Payne 11/21/89
ENGINEERING Date
Forstman 12/15/90
QE Date
WBC 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 16-019
- (3) Piping System of Component 2BCA-1
- (4) Description of Component Pressure Surge Line
- (5) Design Temperature 658°F (6) Pressure 2485 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2257 Temperature 611°
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Room
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE ZW 9-2500, CATEGORY B-P AND
ZWC & D CATEGORY C-H & 24112 & 3WD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A
APSL 11/12/89 Date
VT-2 11/12/89 Date
NA 11/12/89 Date
ANI/ANTI 11/12/89 Date

(24) Reviewed By:

11/21/89
ENGINEERING 11/21/89 Date
QE 11/22/89 Date
ANI/ANTI 11/22/89 Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 17-043
- (3) Piping System of Component 20BB-1
- (4) Description of Component Valve 2FW-5A
- (5) Design Temperature 460°F (6) Pressure 1360 psig
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 985 psig Temperature 455°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1900 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWA-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

VT-2

ANI/ANTI

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANTI

Date

Date

Date

11/21/8912/5/8911/22/89



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCF/PEAR/WR # ISZ # 17-045
- (3) Piping System of Component 2DBB-1
- (4) Description of Component Piping
- (5) Design Temperature 460°F (6) Pressure 1360PSIG
- (7) Pipe Material: ☐ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 985PSIG Temperature 455°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure.)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWR-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWR-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

APSL N/A 1
11/15/89
Date
VT-2 NA 1
Date
ANI/ANII 1
Date

DD Payne 11/21/89
ENGINEERING Date
12/15/90
QE Date
11/22/89
Date
ANI/ANII



State & ^{B, 117} ~~Arkansas~~

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 18-026
- (3) Piping System of Component 2EBB-1
- (4) Description of Component Main Steam Loop 1 - Piping
- (5) Design Temperature 556°F (6) Pressure 1850 PSIG
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 885 Temperature 529
- (10) Period of Time Pressure Held 74 hr
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes N/A Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any none
- (13) Time Started Test 1400 (14) Gauge Pressure N/A
- (15) Time Completed Test 1600 (16) Test Gage No. N/A
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why N/A
- (21) Retest Accepted Yes N/A No N/A
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P ANDIWC & D CATEGORY C-H & 24112 & SWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L

Date

VT-2

Date

ANI/ANI

Date

ENGINEERING

QE

ANI/ANI

11/21/89

Date

12/15/90

Date

11/22/89

Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 19-042
- (3) Piping System of Component 2DBB-2-2
- (4) Description of Component Valve 2FW-5B
- (5) Design Temperature 460°F (6) Pressure 1360PSIG
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 985PSIG Temperature 455°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure)
- (19) Test Accepted Yes ☒ No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A 1
AP&L 1 Date 11-15-89
Billy Gray VT-2 1 Date 11-15-89
NA ANI/ANII 1 Date 11-15-89

(24) Reviewed By:

DD Payne 11/21/89
ENGINEERING 1 Date 11/21/89
JE Howard 1 Date 11/21/89
NBCL ANI/ANII 1 Date 11/21/89



ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 19-044
(3) Piping System of Component 2DBB-2-2
(4) Description of Component Main Feedwater Loop - 2 (Piping)
(5) Design Temperature 460°F (6) Pressure 1360 PSIG
(7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
(8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
(9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
(9a) Normal Operating Pressure 985 PSIG Temperature 455°F
(10) Period of Time Pressure Held > 4 HRS.
(11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
(12) Number of Leaks Detected if any NONE
(13) Time Started Test 12:15 HRS (14) Gauge Pressure NA
(15) Time Completed Test 18:00 HRS (16) Test Gage No. NA
(17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests)
(19) Test Accepted Yes ☒ No
(20) If No, Why
(21) Retest Accepted Yes No

ORIGINAL

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

IWC&D CATEGORY C-H & 24112 & IWB-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A 1
AP&L Date
Bill Hays / Robert Hume 11-15-89
VT-2 Date
NA 1
ANI/ANII Date

(24) Reviewed By:

DD Payne 11/21/89
ENGINEERING Date
John Hume 12/15/90
QE Date
NBC 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 20-024
- (3) Piping System of Component 2 EBB-2-18 Springs
- (4) Description of Component Main Steam Loop - 2 Springs
- (5) Design Temperature 550°F (6) Pressure 1085 PSIG
- (7) Pipe Material: ☒ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 880 PSIG Temperature 520°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs. (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE ZWR-2500, CATEGORY B-P AND
ZWC&D CATEGORY C-H# 24/12 + SWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A 1
AP&L Billy Gray Date 11-15-89
VT-2 NA Date 1
ANI/ANII NA Date 1

(24) Reviewed By:

Red Payne 11/21/89
ENGINEERING Date
John 12/15/90
QE Date
HBEL 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 21-084
- (3) Piping System of Component 2CCA-21-142
- (4) Description of Component Valve 2SZ-16B
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 PSIG Temperature 150°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

IWC&D CATEGORY C-H# 24/12 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

VT-2

ANI/ANII

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/15/89

Date

11/22/89

Date

ORIGINAL

RB-387-130



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 21-086
- (3) Piping System of Component 2CCA-21-192
- (4) Description of Component Valve 2CV-5023-1
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 PSIG Temperature 150°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC-D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L

Date

11/15/89

VT-2

Date

1

ANI/ANII

Date

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/15/90

Date

11/22/89

Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 21-088
- (3) Piping System of Component 2CCA-21-142
- (4) Description of Component Valve 2SI-15B
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 PSIG Temperature 150°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12/5 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & 3WD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

VT-2

NA

ANI/ANII

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

Date

Date

Date

11/21/89

12/15/90

11/22/89



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 21-090
- (3) Piping System of Component 2CCA-21-142
- (4) Description of Component Valve 2SI-14B
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000PSIG Temperature 150°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐

ORIGINAL

- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC-D CATEGORY C-H & 24112 & IWD-5000.
- NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

VT-2

ANI/ANII

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/15/89

Date

11/22/89

Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 21-092
- (3) Piping System of Component 2CCA-21-142
- (4) Description of Component Valve 2SI-13B
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 PSIG Temperature 150°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

VT-2

NA

ANI/ANII

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

Date

Date

Date

11/21/89

12/15/90

11/22/89



Red

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 21-094
- (3) Piping System of Component 2CCA-21-142
- (4) Description of Component Safety Injection Loop 1A Piping
- (5) Design Temperature 650°F (6) Pressure 2350 PSI
- (7) Pipe Material: ☐ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 PSI Temperature 150°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure.)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐

ORIGINAL

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

IWC & D CATEGORY C-H & 24112 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16),
(17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

VT-2

NA

ANI/ANII

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/15/91

Date

11/22/89

Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ZSZ # 22-078
- (3) Piping System of Component 2CCA-22-172
- (4) Description of Component Valve ZSZ-15A
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 psig Temperature 150°F
- (10) Period of Time Pressure Held > 4 hours
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any 1
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Contest Pm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

ORIGINAL

WITH THE REQUIREMENTS OF TABLE IWA-2500, CATEGORY B-P ANDIWC&D CATEGORY C-HQ-24112 + IWD-5000. Packing: 2 Dpm

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Date 11/12/89
VT-2 NA 1
Date 11/12/89
ANI/ANTI 1
Date 11/12/89

D. Payne 11/27/89
ENGINEERING Date
Stewart 12/15/90
Date
C. Hausman 11-27-89
ANI/ANTI Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 22-080
- (3) Piping System of Component 2CCA-22-142
- (4) Description of Component Valve ISI-16A
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 psig Temperature 150°F
- (10) Period of Time Pressure Held > 4 hours
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control En.
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☐ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☒ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2.500, CATEGORY B-P AND
IWC&D CATEGORY C-H# 24/12 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A
AP&L Phillip D. Lee Date 11-17-89
VT-2 NA Date 1
ANI/ANII Date

(24) Reviewed By:

D. Payne 11/27/89
ENGINEERING Date
John Howard 12/15/90
QE Date
C. J. Howard 11-29-89
ANI/ANII Date

ORIGINAL

RB-387-190



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 22-082
- (3) Piping System of Component 2CCA-22-142
- (4) Description of Component Valve 2CV-5003-1
- (5) Design Temperature 650°F (6) Pressure 2550 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 psig Temperature 150°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Antel Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
 AP&L Phillip D. Lyle Date 11-17-89
 VT-2 NA Date 1
 ANI/ANTI Date

DD Payne 11/27/89
 ENGINEERING Date
Forward 12/15/90
 QE Date
CE Howard 11-27-89
 ANI/ANTI Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 22-084
- (3) Piping System of Component 2CCA-22-142
- (4) Description of Component Valve 2SZ-14A
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 PSIG Temperature 150°F
- (10) Period of Time Pressure Held > 4 hours
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any None
- (13) Time Started Test 1715 (14) Gauge Pressure 2300 PSIG
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

ORIGINAL

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P ANDIWC&D CATEGORY C-H & 24112 & SWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L N/A 1
Date 11-17-89
VT-2 NA 1
Date 11-17-89
ANI/ANII 1
Date 11-17-89

(24) Reviewed By:

DA Payne 11/27/89
ENGINEERING Date
John 11/27/89
GE Date
CEH 11-27-89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DC: PEAR/WR # ISI # 22-086
- (3) Piping System of Component 2CCA-22-142
- (4) Description of Component Valve 2SI-13A
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 psig Temperature 150°F
- (10) Period of Time Pressure Held none > 4 hours at system pressure
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC-D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

APL

Date

VI

Date

ANI/ANI

Date

ENGINEERING

QE

ANI/ANI

11/27/89
Date12/15/90
Date11/27-89
Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # Z52# 22-088
- (3) Piping System of Component 2CCA-22-142
- (4) Description of Component Safety Injection Loop 1B Piping
- (5) Design Temperature 650°F (6) Pressure 2550 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 PSIG Temperature 150°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE ZWB-2500, CATEGORY B-P AND
ZWC&D CATEGORY C-H# 24/12 + ZWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

VT-2

ANI/ANII

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/15/89

Date

11/22/89

Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 23-087
- (3) Piping System of Component ZCCA-24-142
- (4) Description of Component Valve 2SI-16C
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000PSIG Temperature 150°F
- (10) Period of Time Pressure Held >4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No
- (20) If No, Why
- (21) Retest Accepted Yes No

ORIGINAL

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWR-2500, CATEGORY B-P AND

IWC&D CATEGORY C-H& 24112 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A 1
AP&L Billy Gray Date 11-15-89
VT-2 NA Date 1
ANI/ANII Date

(24) Reviewed By:

RD Payne 11/21/89
ENGINEERING Date 11/21/89
J. Howard 11/22/89
QE Date 11/22/89
WBE
ANI/ANII Date

RB-387-320



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # 252 # 23-089
- (3) Piping System of Component 200A-24-142
- (4) Description of Component Valve 20V-5043-2
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000psig Temperature 150°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any ONE
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☐ No ☒
- (20) If No, Why Leakage was evident at pressure seal board
- (21) Retest Accepted Yes ☐ No ☐ J.R. # 844382 submitted to have valve repaired and retested. (see next page)
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE ZWB-2500, CATEGORY B-P AND

ZWC & D CATEGORY C-H & 24112 & SWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE 23.

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
 AP&L Date
Billy Gray 11-15-89
 VT-2 Date
NA 1
 ANI/ANII Date

DR Payne 11/21/89
 ENGINEERING Date
Stewart 12/15/90
 QE Date
NBE 11/22/89
 ANI/ANII Date

ORIGINAL

WMRK01 E01 SIMS - JOB REQUEST ADD 02/13/90 08:16:04
JR# 844392 ORIGINATOR D PAYNE EXT 3291
REQD DATE 021390 RPTD TIME 0 0 SYSTEM DATE 021390 SYSTEM TIME 0816
131 UNIT 2 SYS RDS

COMP DESC VALVES
COMP LOC IN AND OUT OF CONTAINMENT
PROB DESC: 5 VALVES LEAKED DURING SYSTEM LEAKAGE TEST AND WERE NOT ACCE
PTED BY SC

CONDRPT? N DEF TAG? DEF TAG LOC
REQ ACTION REPAIR VALVE LEAKS ON 2CV-5043-2 2SI-28A, 2CV-4820-2, 2RC-4D AND PU
MP2P-32A AND RETEST DURING 2RB OR SOONER IF POSSIBLE
STATUS & FAILURE EFFECT ON SYSTEM SEVERITY CODE
EFFECT ON PLANT DETECTION CODE SYMPTOM CODE
PLANT MODE AT FAILURE
ORIG SURV P. CAMPBELL

LOC? N TIME LIMIT? NEED DATE REQD PRI 2S
TECH SPEC# N TIME LIMIT ENDS

RECEIVED BY RECEIVED DATE RECEIVED TIME
WORK TYPE CM RECOMMENDED PLANT MODE 1234XX7890
ASSIGNED WORK CENTER PLANNER DISCP MECH

=====OPTIONS=====

ENTER - PROCESS ADD PF1 - DISPLAY JOB REQUEST
PF2 - PRINT JOB REQUEST PF3 - INITIATE JOB ORDER
PF4 - INITIATE BLNKT JO# PF7 - NEXT JOB REQUEST ADD
PF9 - SECONDARY MENU PF10 - MAIN MENU PF11 - SIGNOFF

RECORD ADDED 010/ JR PRINTED B19/



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 23-091
- (3) Piping System of Component 2CCA-24-142
- (4) Description of Component Valve 2SI-15C
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000PSIG Temperature 150°F
- (10) Period of Time Pressure Held > 4 HRS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H& 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
AP&L Date
Billy Gray 11-15-89
VT-2 Date
NA 1
ANI/ANII Date

DR Payne 11/21/89
ENGINEERING Date
Forbush 12/15/90
QE Date
NBEL 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 23-093
- (3) Piping System of Component 2CCA-24-142
- (4) Description of Component Valve ISI-13C
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 PSIG Temperature 150°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2350 PSIG
- (15) Time Completed Test 1800 (16) Test G. se No. Control Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H& 24112 + IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A
Date 11/17/89
VT-2 NA
Date 1
ANI/ANII
Date

DR Payne 11/21/89
ENGINEERING Date
Forward 12/15/90
QE Date
NBEL 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 23-095
- (3) Piping System of Component 2CCA-24-142
- (4) Description of Component Valve 25I-14C
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 psig Temperature 150°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWR-2500, CATEGORY B-F AND
IWC # D CATEGORY C-H # 24.12 + IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A
Phillip D. Rye Date 11-17-89
VT-2 NA Date 1
ANI/ANII Date

D. Payne Date 11/21/89
ENGINEERING Date 12/15/90
Stewart Date 11/22/89
QE NBEL Date
ANI/ANII



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. 01

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 23-097
- (3) Piping System of Component: 2CCA-24-142
- (4) Description of Component: Safety Injection Loop 2A Piping
- (5) Design Temperature 650°F (6) Pressure 2350 PSI/g
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 PSI/g Temperature 150°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any None
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 PSI/g
- (15) Time Completed Test 1300 (16) Test Gage No. Control Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: This SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC-D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

APSL N/A 1
Phillips D R Date 11/17/89
VT-2 NA 1
ANI/ANII Date

D. Payne 11/21/89
ENGINEERING Date
Edward 12/15/89
QE Date
NBEL 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 24-094
- (3) Piping System of Component 2CCA-23-142
- (4) Description of Component Valve 2SI-160
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000PSIG Temperature 150°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC # D CATEGORY C-H & 24/12 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A 1
AP&L Date
Billy Gray 11/15/89
VT-2 Date
NA 1
ANI/ANII Date

(24) Reviewed By:

DD Payne 11/21/89
ENGINEERING Date
John 12/15/90
QE Date
NBCL 11/22/89
ANI/ANII Date



RB-405-45

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 24-096
- (3) Piping System of Component 2CCA-23-142
- (4) Description of Component Valve 20X-5063-2
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000psig Temperature 150°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs. (14) Gauge Pressure NA
- (15) Time Completed Test 1800 hrs. (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
AP&L Date
Billy Gray 11-15-89
VT-2 Date
NA 1
ANI/ANII Date

DD Payne 11/21/89
ENGINEERING Date
Edward 12/5/90
QE Date
WBE 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 24-098
- (3) Piping System of Component ZCCA-23-142
- (4) Description of Component Valve ISI-150
- (5) Design Temperature 650°F (6) Pressure 2350psi
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000psi Temperature 150°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs. (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs. (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A 1
AP&L Date
Billy Gray 11-15-89
VT-2 Date
NA 1
ANI/ANII Date

(24) Reviewed By:

DD Payne 11/21/89
ENGINEERING Date
 12/5/90
QE Date
NBEL 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 24-100
- (3) Piping System of Component 2CCA-23-142
- (4) Description of Component Valve 2SZ-140
140
2SZ-140
2SZ 8/10/89
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000psig Temperature 150°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure: 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm.
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC-4 D CATEGORY C-H 24/12 + 3WD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A
AP&L 1
Philip D. Lee Date 11-17-89
VT-2 1
NA Date 1
ANI/ANII Date

DD Payne
ENGINEERING Date 11/21/89
John Date 12/15/89
QE NBC Date 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 24-102
- (3) Piping System of Component 2CCA-23-142
- (4) Description of Component Valve ISI-13D
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 psig Temperature 150°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm.
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & 3WD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Philip Dye 11-17-89 Date
VT-2 NA 1 Date
ANI/ANII NA 1 Date

DD Payne 11/21/89
ENGINEERING Date
Edward 12/15/90
QE Date
NB 11/22/89
ANI/ANII Date



6.1/4

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. 01

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 24-104
- (3) Piping System of Component 2CCA-23-142
- (4) Description of Component Safety Injection Loop 2B Piping
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 PSIG Temperature 150°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐

ORIGINAL

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

IWC # D CATEGORY C-H # 24112 + IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A 1
AP&L Date
Billy Gray 11-15-89
VT-2 Date
NA 1
ANI/ANII Date

(24) Reviewed By:

R.D. Payne 11/21/89
ENGINEERING Date
JO Howard 12/15/90
QE Date
NBEL 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 25-098
- (3) Piping System of Component 2CCA-25-142
- (4) Description of Component Valve 2CV-5084-1
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250psig Temperature 300°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs. (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWA-2500, CATEGORY B-P ANDIWC & D CATEGORY C-H & 24112 & 3WD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A 1
AP&L Date
Billy Gray 11-15-89
VT-2 Date
NA 1
ANI/ANII Date

(24) Reviewed By:

DD Payne 11/21/89
ENGINEERING Date
JE Bond 12/15/90
QE Date
NBEH 11/22/89
ANI/ANII Date

ORIGINAL

RB-336-270



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 25-100
- (3) Piping System of Component ZCCA-25-142
- (4) Description of Component Valve ZCV-5086-2
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 300°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1715 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control 1m
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24/12 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

APSL N/A 1
Phillip D Rye Date 11-17-89
 VT-2 NA Date 1
 ANI/ANII Date

D. D. Payne 11/27/89
 ENGINEERING Date
John Howard 12/15/90
 QE Date
C. E. Howard 11/27/89
 ANI/ANII Date

88-336-270



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 25-102
- (3) Piping System of Component 2CCA-25-142
- (4) Description of Component Valve 2SZ-19
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 300°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any 1
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Ln
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000. @ Parkway 30/DEM

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Phillip D. Lee Date 11-17-89
 VT-2 NA 1
 ANI/ANII Date

De Payne 11/17/89
 ENGINEERING Date
Howard 12/15/90
 CEH Howard Date
 ANI/ANII 11-27-89
 Date

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.11I

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 25-104
- (3) Piping System of Component 20CA-25-142
- (4) Description of Component Valve 25I-29A
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 300°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any _____
- (13) Time Started Test 12:15 hrs. (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: This System Leakage Test is being conducted in accordance
- ORIGINAL**

ORIGINAL

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

FWC & D CATEGORY C-HQ 24112 & FWC-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L	N/A	1
VT-2	11/15-89	Date
NA	1	Date
ANI/ANII		Date

DD Payne	11/21/89
ENGINEERING	Date
J. Howard	1 3/15/90
QE	Date
NBC	11/22/89
ANI/ANII	Date

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.11I

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 25-106
- (3) Piping System of Component 2CCA-25-142
- (4) Description of Component Valve 2SI-28A
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 300°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any One
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs. (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☐ No ☒
- (20) If No, Why Leakage was visible from pressure seal bonnet
- (21) Retest Accepted Yes ☐ No ☒ J.R. # 844382 submitted to have leak repaired and valve retuned. (see following page).
- (22) Remarks: This system leakage test is being conducted in accordance

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

JWC & D CATEGORY C-H & 24112 & JWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-1.

(23) Test Witnessed By:

(24) Review by:

	N/A	1
AP&L		Date
Billy Gray		11-15-89
VT-2		Date
NR		1
ANI/ANII		Date

Payne	11/21/89
ENGINEERING	Date
Howard	12/5/90
QE	Date
NBEh	11/22/89
ANI/ANII	Date

WMBK01 B01 SIMS - JOB REQUEST ADD 02/13/90 08:16:04
JR# 844382 ORIGINATOR D PAYNE EXT 3291
RPTD DATE 021390 RPTD TIME 0810 SYSTEM DATE 021390 SYSTEM TIME 0818
P# 1ST UNIT 2 SYS RDS

COMP DESC VALVES
COMP LOC IN AND OUT OF CONTAINMENT
PROB DESC: 5 VALVES LEAKED DURING SYSTEM LEAKAGE TEST AND WERE NOT ACCE
PTED BY QC

CONDRPT? N DEF TAG? DEF TAG LOC
REC ACTION REPAIR VALVE LEAKS ON 2CV-5043-2, 2SI-26A, 2CV-4820-2, 2RC-4D AND PU
MP2F-32A AND RETEST DURING 2RB OR SOONER IF POSSIBLE
STATUS @ FAILURE EFFECT ON SYSTEM SEVERITY CODE
EFFECT ON PLANT DETECTION CODE SYMPTOM CODE
PLANT MODE AT FAILURE
ORIG SUPV: P. CAMPBELL

LDD? N TIME LIMIT? NEED DATE RQSD PRI: 25
TECH SPEC# N TIME LIMIT ENDS

RECEIVED BY RECEIVED DATE RECEIVED TIME
WORK TYPE CM RECOMMENDED PLANT MODE 1234XX7890
ASSIGNED WORK CENTER PLANNER DISCP MECH

=====OPTIONS=====

ENTER - PROCESS ADD PF1 - DISPLAY JOB REQUEST
PF2 - PRINT JOB REQUEST PF3 - INITIATE JOB ORDER
PF4 - INITIATE BLNKT JO# PF7 - NEXT JOB REQUEST ADD
PF9 - SECONDARY MENU PF10 - MAIN MENU PF11 - SIGNOFF

RECORD ADDED 010/ JR PRINTED E19/



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ZSI # 25-108
- (3) Piping System of Component 2CCA-25-142
- (4) Description of Component Valve 2SI-27A
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250PSIG Temperature 300°F
- (10) Period of Time Pressure Held >4 HRS.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any
- (13) Time Started Test 12:15 HRS (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 HRS. (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
AP&L Date
Billy Gray 11-15-89
VT-2 Date
NA 1
ANI/ANII Date

D. Payne 11/21/89
ENGINEERING Date
John 12/15/89
QE Date
NBEL 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 25-110
- (3) Piping System of Component ZCCA-25-142
- (4) Description of Component Valve ISI-29B
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 300°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H& 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
AP&L Date
Billy Gray 11/15-89
VT-2 Date
NA 1
ANI/ANII Date

DD Payne 11/21/89
ENGINEERING Date
JE Howard 12/15/90
QE Date
NB El 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 25-112
- (3) Piping System of Component 2CCA-25-142
- (4) Description of Component Valve 2SI-28B
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250PSIG Temperature 300°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs. (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs. (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWR-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H & 24112 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A 1
AP&L Date
Billy Gray 11/15-89
VT-2 Date
NA 1
ANI/ANII Date

(24) Reviewed By:

DD Payne 11/21/89
ENGINEERING Date
JE Howard 12/15/90
QE Date
HB Ehr 11/22/89
ANI/ANII Date

ORIGINAL



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 25-114
- (3) Piping System of Component 2CCA-25-142
- (4) Description of Component Valve ISI-27B
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250PSIG Temperature 300°F
- (10) Period of Time Pressure Held > 4HRS.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15HRS (14) Gauge Pressure NA
- (15) Time Completed Test 18:00HRS (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H & 24112 & 3WD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
AP&L Date
Billy Gray 11-15-89
VT-2 Date
NA 1
ANI/ANII Date

DA Payne 11/21/89
ENGINEERING Date
Forwood 12/15/92
QE Date
NBE 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 25-116
- (3) Piping System of Component 2CCA-25-142
- (4) Description of Component Shutdown Cooling Piping
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 Temperature 300
- (10) Period of Time Pressure Held N/A
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 (14) Gauge Pressure N/A
- (15) Time Completed Test 18:00 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWR-2500, CATEGORY B-P AND

IWC&D CATEGORY C-H4 24112 + SWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Date 11/15/89

VT-2 N/A 1
Date 11/22/89

ANI/ANII N/A 1
Date 11/22/89

D. Payne 11/21/89
ENGINEERING Date

Edward 12/15/89
QE Date

WBEH 11/22/89
ANI/ANII Date



Red

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. 01

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 26-064
- (3) Piping System of Component 2CCA-14-14 15-2
- (4) Description of Component Valve 2CV-4654
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 553°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H & 24112 & 3WD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L

Date

11/15/89

VT-2

Date

1

ANI/ANII

Date

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/15/90

Date

11/22/89

Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 26-066
- (3) Piping System of Component 2CCA-14-1 & 15-2
- (4) Description of Component Spray Piping Loop 1A
- (5) Design Temperature 650°F (6) Pressure 2550 PSI/g
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ In-service Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 1000 psig Temperature 100°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2380 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Controll Rn
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P ANDIWC & D CATEGORY C-H & 24112 & 3WD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Date 11-15-89
VT-2 NA 1
Date 11-22-89
ANI/ANII 1
Date 11-22-89

DA Payne 11/21/89
ENGINEERING 12/15/90
Date 11/22/89
QE 11/22/89
Date 11/22/89
ANI/ANII 11/22/89
Date 11/22/89

ORIGINAL



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 27-084
- (3) Piping System of Component 2CCA-13-1 & 2CCA-15-2
- (4) Description of Component Valve 2CV-4651
- (5) Design Temperature 650°F (6) Pressure 2550 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 PSIG
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A
 AP&L Phillips Date 11-17-89
 VT-2 NA Date 1
 ANI/ANII _____ Date _____

DD Payne 11/27/89
 ENGINEERING Date
Forstman 12/15/90
 GE Date
CE Harrison 11/27/89
 ANI/ANII Date

ORIGINAL



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 27-086
- (3) Piping System of Component 2CCA-13-1 & 2CCA-15-2
- (4) Description of Component Valve 2CV-4656
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Unlabeled
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC-D CATEGORY C-H & 24112 & 340-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
APR Date
Phillip D. Rye 11/17/89
VT-2 Date
NA 1
ANI/ANII Date

D. A. Payne 11/27/89
ENGINEERING Date
John 12/15/90
QE Date
C. E. Hansen 11/29/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 27-088
- (3) Piping System of Component ZCCA-13-1 & ZCCA-15-2
- (4) Description of Component Valve 20V-4655
- (5) Design Temperature 650°F (6) Pressure 2550 PSI/g
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSI/g Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 PSI/g
- (15) Time Completed Test 1800 (16) Test Gage No. Control 1m
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐

ORIGINAL

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

IWC & D CATEGORY C-H & 24112 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16),
(17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Phillips Date 11-17-89
VT-2 1 Date
NA 1
ANI/ANII Date

DD Payne 11/27/89
ENGINEERING Date
Stewart 12/15/90
QE Date
CE Howard 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 27-090
- (3) Piping System of Component 2CCA-13-1 & 2CCA-15-2
- (4) Description of Component Spray Piping Loop 1B
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 PSIG
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm.
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & 3WD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Philip R. Date 11-20-89
VT-2 NA 1
Date
ANI/ANII Date

R.D. Payne 11/21/89
ENGINEERING Date
 12/15/90
Date
 11/22/89
Date
ANI/ANII



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 28-059
- (3) Piping System of Component 2CCA-15-1
- (4) Description of Component Valve ZCV-4652
- (5) Design Temperature 650°F (6) Pressure 2350 PSI/g
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSI/g Temperature 553°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWR-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

VT-2

ANI/ANII

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

Date

Date

Date

11/21/89

12/15/89

11/22/89



ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 28-061
- (3) Piping System of Component 2CCA-15-1
- (4) Description of Component Valve 20V-4653
- (5) Design Temperature 650°F (6) Pressure 2550PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 553°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

Date

VT-2

Date

ANI/ANII

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

Date

Date

Date



ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 28-063
(3) Piping System of Component 2CCA-15-1
(4) Description of Component Spray Piping Inside Pressure Enclosure
(5) Design Temperature 650°F (6) Pressure 2550 psig
(7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
(8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
(9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
(9a) Normal Operating Pressure 2250 psig Temperature 553°F
(10) Period of Time Pressure Held > 4 hrs
(11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
(12) Number of Leaks Detected if any None
(13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
(15) Time Completed Test 1800 (16) Test Gage No. Contact Rm.
(17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
(19) Test Accepted Yes ☒ No ☐
(20) If No, Why _____
(21) Retest Accepted Yes ☐ No ☐

ORIGINAL

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWR-2500, CATEGORY B-P AND

IWC & D CATEGORY C-H & 24112 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

APSL N/A 1
Date 11-17-89
VT-2 NA 1
Date 11-22-89
ANI/ANII Date

DD Payne 11/21/89
ENGINEERING Date
John 12/15/89
QE Date
H B Ehl 11/22/89
ANI/ANII Date

RB - 335 - 180 Rod



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 29-070
- (3) Piping System of Component ZCCA-16-1 & ZCCA-16-10
- (4) Description of Component Valve ZCV-4824-2
- (5) Design Temperature 200°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 140°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

ORIGINAL

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H & 24112 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L

Date

11/15/89

VT-2

Date

1

ANI/ANII

Date

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/15/90

Date

11/22/89

Date



ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 29-072
- (3) Piping System of Component 2CCA-16-1 & 2CCA-16-10
- (4) Description of Component Valve 2CV-28A
- (5) Design Temperature 200°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☐ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2350 psig Temperature 120°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 800 (16) Test Gage No. Antek Rn
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Date 11/22/89
VT-2 NA 1
Date 11/22/89
ANI/ANII 1
Date 11/22/89

DD Payne 11/21/89
ENGINEERING Date
FORWARD 12/15/90
QE Date
WBE 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 29-074
- (3) Piping System of Component ZCCA-14-1 & ZCCA-16-10
- (4) Description of Component Sup. Spray Piping
- (5) Design Temperature 200°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 Temperature 140
- (10) Period of Time Pressure Held N/A
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

ORIGINAL

WITH THE REQUIREMENTS OF TABLE ZWR-2500, CATEGORY B-P ANDZWC&D CATEGORY C-H & 24112 & ZWR-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A
APL Date 11/15/89
VT-2 NA Date 1
ANI/ANII Date

ENGINEERING Date 11/21/89
 Date 12/5/90
 Date 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 31-016
- (3) Piping System of Component 2CCA-6
- (4) Description of Component Pump 2P32B
- (5) Design Temperature 650°F (6) Pressure 2485PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 553°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H# 24112 + IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

Date

VT-2

Date

ANI/ANII

Date

(24) Reviewed By:

ENGINEERING

Date

QE

Date

ANI/ANII

Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 32-016
- (3) Piping System of Component 2CCA-4
- (4) Description of Component Pump 2P-32A
- (5) Design Temperature 650°F (6) Pressure 2485PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 Temperature 553°F
- (10) Period of Time Pressure Held > 4hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any 1
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 PSIG
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes No
- (20) If No, Why
- (21) Retest Accepted Yes No J.R. # 5443 - 2.1 in. dia. hole in pump head repaired and retested (see following page).
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWA-2500, CATEGORY B-P AND
EWING OF BORN LEAK AND "Locating Pin hole Plug PR 11-12-89"
IWC&D CATEGORY C-H4 24112 + SWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

APEL N/A
Philip Date 11-17-89
VT-2 NA Date 1
ANI/ANII Date

D. Payne 11/21/89
ENGINEERING Date
John 12/15/90
QE Date
NBEL 11/22/89
ANI/ANII Date

WMEK01 B01 SIMS - JOB REQUEST ADD 02/13/90 09:18:04
JR# 844382 ORIGINATOR D PAYNE EXT 3291
RPTD DATE 021390 RPTD TIME 0810 SYSTEM DATE 021390 SYSTEM TIME 0818
C-IP# 1ST UNIT 2 SYS RCS

DESC VALVES
COMP LOC IN AND OUT OF CONTAINMENT
PRUB DESC: 5 VALVES LEAKED DURING SYSTEM LEAKAGE TEST AND WERE NOT ACCE
PTED BY QC

CONDRPT? N DEF TAG? DEF TAG LOC
REC ACTION REPAIR VALVE LEAKS ON 2CV-5043-2, 2SI-28A, 2CV-4820-2, 2RC-4D AND PU
M32F-32A AND RETEST DURING 2RS OR SOONER IF POSSIBLE
STATUS @ FAILURE EFFECT ON SYSTEM SEVERITY CODE
EFFECT ON PLANT DETECTION CODE SYMPTOM CODE
PLANT MODE AT FAILURE
ORIG SUPV: P. CAMPBELL

LOC? N TIME LIMIT? NEED DATE RQSD PRI: 2S
TECH SPEC# N TIME LIMIT ENDS

RECEIVED BY RECEIVED DATE RECEIVED TIME
WORK TYPE CM RECOMMENDED PLANT MODE 1234XX7090
ASSIGNED WORK CENTER PLANNER DISCP MECH

=====OPTIONS=====

ENTER - PROCESS ADD PF1 - DISPLAY JOB REQUEST
PF2 - PRINT JOB REQUEST PF3 - INITIATE JOB ORDER
PF4 - INITIATE BLNKT JOB PF7 - NEXT JOB REQUEST ADD
PF9 - SECONDARY MENU PF10 - MAIN MENU PF11 - SIGNOFF
RECORD ADDED 010/ JR PRINTED B19/



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 33-016
- (3) Piping System of Component 2CCA-8
- (4) Description of Component Pump 2P-32C
- (5) Design Temperature 650°F (6) Pressure 2485psi/g
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250psi/g Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs. (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC-D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
AP&L Date
Billy Gray 11/15-89
VT-2 Date
NA 1
ANI/ANII Date

DD Payne 11/21/89
ENGINEERING Date
JE Howard 12/15/89
QE Date
NB Ch 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ZSZ # 34-016
- (3) Piping System of Component 2CCA-9
- (4) Description of Component Pump 2P-320
- (5) Design Temperature 650°F (6) Pressure 2485 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs. (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs. (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests.)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC-00 CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
AP&L Date
Billy Gray 11-15-89
VT-2 Date
NA 1
ANI/ANII Date

D. D. Payne 11/21/89
ENGINEERING Date
F. E. Ford 12/15/90
QE Date
N. B. Ehl 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 35-024
- (3) Piping System of Component 2CCA-32-1
- (4) Description of Component Valve 2RC-4E
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 611°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

IWC&D CATEGORY C-H# 24112 & IWD-5000. MINOR PACKING LEAK

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L

VT-2

ANI/ANII

Date

Date

Date

(24) Reviewed By:

ENGINEERING

QE

ANI/ANII

Date

Date

Date

Date

ORIGINAL

RB- 370-175



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 35-026
- (3) Piping System of Component 2CCA-32-1
- (4) Description of Component Valve 2RC-5E
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 611°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24/12 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L

Date

VT-2

Date

ANI/ANII

Date

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/16/90

Date

11/22/89

Date



Phillip

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 35-028
- (3) Piping System of Component 2CCA-32-1
- (4) Description of Component Hot Leg Return Loop - 1 Piping
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 611°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm.
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & 3WD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Phillip D. Rye Date 11-17-89
VT-2 NA 1
ANI/ANII Date

D. Payne 11/21/89
ENGINEERING Date
Dei. Auburn 12/16/90
QE Date
NB El 11/22/89
ANI/ANII Date

RB-365-135



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 36-015
- (3) Piping System of Component RCCA-29-1
- (4) Description of Component Valve ZRC-4B
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 553°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure NA
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWA-2500, CATEGORY B-P AND

IWC & D CATEGORY C-H & 2412 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L

Date

VT-2

Date

ANI/ANII

Date

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/16/90

Date

11/22/89

Date

ORIGINAL



365-135

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 36-017
- (3) Piping System of Component 2CCA-29-1
- (4) Description of Component Valve 2RC-5B
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 553°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWR-2500, CATEGORY B-P AND

IWC & D CATEGORY C-H & 24112 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&L N/A 1
Date 11/15/89
VT-2 NA 1
Date 11/15/89
ANI/ANII NA 1
Date 11/15/89

(24) Reviewed By:

DD Payne 11/21/89
ENGINEERING Date
DA Anderson 12/16/90
QE Date
W B EL 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 36-019
- (3) Piping System of Component 2CCA-29-1
- (4) Description of Component Cold Leg Drain Loop 1A Piping
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Contal Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: This SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P ANDIWC & D CATEGORY C-H & 2412 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L

Date

VT-2

Date

ANI/ANII

Date

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/16/90

Date

11/22/89

Date

RB-336-180



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 37-053
- (3) Piping System of Component ZCCA-12-1
- (4) Description of Component Valve 20V-4820-2
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied -Test is Unacceptable
- (12) Number of Leaks Detected if any 2nd
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Portek 100
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☐ No ☒
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☒ J.R. #84 343 (11/15/89) valve repaired and tested (see following page)
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC-D CATEGORY C-HQ 24112 & IWD-5000. (1) AT LINE LEAK & BECKET
FOR PIPE (Rubber with 3000 psi)
 NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23). EVIDENCE OF WATER ON FLOOR UNDERNEATH

(23) Test Witnessed By:

(24) Reviewed By:

AP61

Date

VT-2

Date

ANI/ANII

Date

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/16/90

Date

11/22/89

Date

WMRK01 801 SIMS - JOB REQUEST ADD 02/13/90 08:16:04
JOB# 844382 ORIGINATOR D PAYNE EXT 3291
RPTD DATE 021390 RPTD TIME 0810 SYSTEM DATE 021390 SYSTEM TIME 0810
UNIT 2 SYS RCS

COMP# 151
DESC VALVES
COMP LOC IN AND OUT OF CONTAINMENT
PROB DESC: 5 VALVES LEAKED DURING SYSTEM LEAKAGE TEST AND WERE NOT ACCE
PTED BY QC

CONDRPT? N DEF TAG? DEF TAG LOC
RED ACTION REPAIR VALVE LEAKS ON 2CV-5043-2, 251-26A, 2CV-4820-2, 2RC-4D AND PU
MP2F-32A AND RETEST DURING 2RB OR SOONER IF POSSIBLE
STATUS @ FAILURE EFFECT ON SYSTEM SEVERITY CODE
EFFECT ON PLANT DETECTION CODE SYMPTOM CODE
PLANT MODE AT FAILURE
ORIG SURV: P. CAMPBELL

LOC? N TIME LIMIT? NEED DATE REQD PRI: 25
TECH SPEC# N TIME LIMIT ENDS

RECEIVED BY RECEIVED DATE RECEIVED TIME
WORK TYPE CN RECOMMENDED PLANT MODE 1234XX7890
ASSIGNED WORK CENTER PLANNER DISCP MECH

=====OPTIONS=====

ENTER - PROCESS ADD PF1 - DISPLAY JOB REQUEST
PF2 - PRINT JOB REQUEST PF3 - INITIATE JOB ORDER
PF4 - INITIATE BLNKT JOB PF7 - NEXT JOB REQUEST ADD
PF9 - SECONDARY MENU PF10 - MAIN MENU PF11 - SIGNOFF

RECORD ADDED 010/ JR PRINTED B19/



ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISX # 37-055
- (3) Piping System of Component 2CCA-12-1
- (4) Description of Component Valve 2CV-4821-1
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any 1
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Room
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: This SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000. @ packing 20/20m

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

APSL N/A 1
Philip D. R. Date 11/15-89
VT-2 NA 1
ANI/ANII Date

D. Payne 11/27/89
ENGINEERING Date
Lin. J. J. 12/16/90
QE Date
C. E. Housh 11/27/89
ANI/ANII Date

RB-375-186



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ZSZ # 37-057
- (3) Piping System of Component ZCCA-12-1
- (4) Description of Component Valve ZRC-4A
- (5) Design Temperature 650°F (6) Pressure 2350 PSI/G
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 553° f
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Pm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: This SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE ZWB-2500, CATEGORY B-P AND
ZWC&D CATEGORY C-H& 24/12 + JWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A
 AP&L 1
Phillips Date 11-17-89
 VT-2 1
NA
 ANI/ANII Date

DR Payne 11/27/89
 ENGINEERING Date
Dr. Johnson 12/16/90
 QE Date
CE Housh 11/27/89
 ANI/ANII Date

ORIGINAL

CB-375-186



ARKANSAS POWER & LIGHT COMPANY Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 37-059
- (3) Piping System of Component 2CCA-12-1
- (4) Description of Component Valve 2RC-5A
- (5) Design Temperature 450°F (6) Pressure 2350 PSI/g
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1900 (16) Test Gage No. Control Pen
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE JWB-2500, CATEGORY B-P AND
JWC&D CATEGORY C-H& 24112 & JWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Phillip D. Lee Date 11-17-89
VT-2 NA 1
ANI/ANII Date

D. D. Payne 11/27/89
ENGINEERING Date
12/16/90
QE CE Henderson 11/27/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # TSZ # 37-061
- (3) Piping System of Component 2CCA-12-1
- (4) Description of Component Cold Leg Drain Loop 1B Piping
- (5) Design Temperature 650°F (6) Pressure 2350 psi
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psi Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs. (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs. (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWR-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & SWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Date 11/15/89
VT-2 Billy Gray
Date 11/15/89
NA 1
Date 11/15/89

D. Payne 11/21/89
ENGINEERING Date 12/16/90
Joe Johnson
QE Date 11/22/89
NB El
ANI/ANII Date



RB-365 0

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. 01

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 38-015
- (3) Piping System of Component 2CCA-30-1
- (4) Description of Component Valve 2RC-4C
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 553
- (10) Period of Time Pressure Held > 4 hrs.
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: This SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2.500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A
AP&L 1
Billy Gray Date 11-15-89
VT-2 1
NA Date 1
ANI/ANII Date

RD Payne 11/21/89
ENGINEERING Date
W. Anderson 12/16/90
QE Date
NB Eub 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 38-017
- (3) Piping System of Component 2CCA-30-1
- (4) Description of Component Valve 2RC-5C
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250PSIG Temperature 553°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H& 2412 + IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Date 11/15/89
VT-2 NA 1
Date 11/15/89
ANI/ANII NA 1
Date 11/15/89

R. Payne 11/21/89
ENGINEERING Date
Ac. Auben 12/16/90
QE Date
W. B. E. L. 11/22/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ZSZ # 38-019
- (3) Piping System of Component ZCCA-30-1
- (4) Description of Component Cold Leg Drain Loop 2A Piping
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 553°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H & 24/12 & IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

APSL N/A 1
Philip + Rod 11/15/89
 VT-2 1
NA 1
 ANI/ANII 1
 Date

D. Payne 11/21/89
 ENGINEERING 12/16/90
Joe Arthur 11/22/89
 QE 11/22/89
 ANI/ANII 1
 Date

ORIGINAL



265-30

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ-39-015
- (3) Piping System of Component 2CCA-31-1
- (4) Description of Component Valve 2RC-4D
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any packing - (ONE) small amount of steam
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 18:00 hrs (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes No ☒
- (20) If No, Why Steam was leaking from packing gland
- (21) Retest Accepted Yes No J.R. # 844382 submitted to have valve leak repaired and retested. (see following page)
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

IWC&D CATEGORY C-H& 24/12 + IWD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN AND DATE VT-2 LINE (13)

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
AP&L Billy Gray Date 11-15-89
VT-2 NA Date 1
ANI/ANII Date

ORIGINAL
82 Payne 11/21/89
ENGINEERING Date
Don Anderson 12/16/90
QE Date
W.B. Ehl 11/22/89
ANI/ANII Date

WMBK01 B01 SIMS - JOB REQUEST ADD 02/13/90 08:18:04
JR# 844382 ORIGINATOR D PAYNE EXT 3291
RPTD DATE 021390 RPTD TIME 0810 SYSTEM DATE 021390 SYSTEM TIME 0818
UNIT 2 SYS RDS

DESC VALVES
COMP LOC IN AND OUT OF CONTAINMENT
PROB DESC: 5 VALVES LEAKED DURING SYSTEM LEAKAGE TEST AND WERE NOT ACCE
PTED BY GC

CONDRPT? N DEF TAG? DEF TAG LOC
REC ACTION REPAIR VALVE LEAKS ON 2CV-5043-2, 2SI-28A, 2CV-4B20-2, 2RC-4D AND PU
MP2P-32A AND RETEST DURING 2RB OR SOONER IF POSSIBLE

STATUS @ FAILURE EFFECT ON SYSTEM SEVERITY CODE
EFFECT ON PLANT DETECTION CODE SYMPTOM CODE

PLANT MODE AT FAILURE

ORIG SUPV: P. CAMPBELL

LOO? N TIME LIMIT? NEED DATE REQD PRI: 2S
TIME LIMIT ENDS

TECH SPEC# N

RECEIVED BY

WORK TYPE CM

ASSIGNED WORK CENTER

RECEIVED DATE

RECOMMENDED PLANT MODE

PLANNER DISCP

RECEIVED TIME

1234XX7890

MECH

=====OPTIONS=====

ENTER - PROCESS ADD

PF2 - PRINT JOB REQUEST

PF4 - INITIATE BLNKT JOB

PF9 - SECONDARY MENU

PF10 - MAIN MENU

RECORD ADDED

010/ JR PRINTED

PF1 - DISPLAY JOB REQUEST

PF3 - INITIATE JOB ORDER

PF7 - NEXT JOB REQUEST ADD

PF11 - SIGNOFF

B19/

365-30



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 39-017
- (3) Piping System of Component 2CCA-31-1
- (4) Description of Component Valve 2RC-5D
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 553°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 12:15 hrs (14) Gauge Pressure NA
- (15) Time Completed Test 1800 hrs. (16) Test Gage No. NA
- (17) Date Test Conducted 11-15-89 (18) Calibration Date NA
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWA-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
 AP&L Billy Gray 11-15-89
 VT-2 NA 1
 ANI/ANII 1 11-15-89
 Date

AD Payne 11/21/89
 ENGINEERING 12/16/90
Dr. Anderson 11/22/89
 QE H B E L 11/22/89
 ANI/ANII 11/22/89
 Date



ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ-39-019
(3) Piping System of Component 2CCA-31-1
(4) Description of Component Cold Leg Drain Loop 2B Piping
(5) Design Temperature 650°F (6) Pressure 2350PSIG
(7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
(8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
(9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
(9a) Normal Operating Pressure 2250PSIG Temperature 553°F
(10) Period of Time Pressure Held > 4 hrs.
(11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
(12) Number of Leaks Detected if any NONE
(13) Time Started Test 12:15 hrs. (14) Gauge Pressure NA
(15) Time Completed Test 18:00 hrs. (16) Test Gage No. NA
(17) Date Test Conducted 11-15-89 (18) Calibration Date NA
(Required only for hydro. & pressure tests).
(19) Test Accepted Yes V No
(20) If No, Why
(21) Retest Accepted Yes No

ORIGINAL

- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & 3WD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
AP&L Billy Gray 11-15-89
Date
VT-2 NA 1
Date
ANI/ANII
Date

DR Payne 11/21/89
ENGINEERING 12/16/90
Date
QE NRB El 11/22/89
Date
ANI/ANII
Date

336-180



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ZSZ # 40-064
- (3) Piping System of Component ZCCA-27-1,2,3,4,4
- (4) Description of Component Valve ZCV-4827-2
- (5) Design Temperature 650°F (6) Pressure 2550 PSI@
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 200°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Cont'd Pm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
Phillips Date 11-17-89
 VT-2 NA 1
 ANI/ANTI Date

DR Payne 11/21/89
 ENGINEERING Date
Ann Arban 12/16/90
 QE Date
NAB 11/22/89
 ANI/ANTI Date

336-K60



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 40-066
- (3) Piping System of Component 2CCA-27-1, 2, 3 & 4
- (4) Description of Component Valve 2CVC-27
- (5) Design Temperature 650°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 200° F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A
 AP&L Philip D Lye 1 11-17-89
 VT-2 NA 1 11-17-89
 ANI/ANII NA 1 11-17-89

DD Payne 11/27/89
 ENGINEERING 12/16/90
 QE CE Housh 11/27/89
 ANI/ANII 12/16/90



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI* 40-068
- (3) Piping System of Component 2CCA-27-1,2,3 & 4
- (4) Description of Component Valve 2CVC-1186
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 200°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE ZWB-2500, CATEGORY B-P AND
ZWC & D CATEGORY C-H & 24112 & 3WD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

APSL N/A 1
Date 11/15/89
VT-2 N/A 1
Date 11/15/89
ANI/ANTI N/A 1
Date 11/15/89

(24) Reviewed By:

DD Payne 11/21/89
ENGINEERING Date
J. Anderson 12/16/90
QE Date
N. B. Ehl 11/22/89
ANI/ANTI Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 40-070
- (3) Piping System of Component 2CCA-27-1,2,3&4
- (4) Description of Component Valve 2CVC-1187
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 PSIG Temperature 200°F
- (10) Period of Time Pressure Held GREATER THAN 4 HOURS
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11/15/89 (18) Calibration Date N/A
 (Required only for hydro. & pressure)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H& 24/12 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L

Date

11/15/89

VT-2

Date

1

ANI/ANII

Date

ENGINEERING

QE

ANI/ANII

11/21/89

Date

12/16/90

Date

11/22/89

Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 40-072
- (3) Piping System of Component 2CCA-27-1,2,3&4
- (4) Description of Component Loop 1A Charging & Discharge
- (5) Design Temperature 650°F (6) Pressure 2550PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 Temperature 200
- (10) Period of Time Pressure Held N/A
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any None
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H & 24112 & 3WD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

APL N/A 1
11/15/89
Date
VT-2
NA
Date
ANI/ANII
Date

(24) Reviewed By:

DR Payne 11/21/89
ENGINEERING Date
12/16/90
QE Date
11/22/89
Date
ANI/ANII



ARKANSAS POWER & LIGHT COMPANY
Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ZSZ # 41-065
(3) Piping System of Component 2CCA-26-11,12,13,14,15 & 16
(4) Description of Component Valve 2CV-4831-2
(5) Design Temperature 650°F (6) Pressure 2350 psig
(7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
(8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
(9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
(9a) Normal Operating Pressure 2250 Temperature 200°F
(10) Period of Time Pressure Held > 4 hrs
(11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
(12) Number of Leaks Detected if any NONE
(13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
(15) Time Completed Test 1800 (16) Test Gage No. Cont'd Em
(17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
(19) Test Accepted Yes ✓ No
(20) If No, Why
(21) Retest Accepted Yes No

ORIGINAL

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND

IWC&D CATEGORY C-H & 24112 & IWB-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

N/A
APSL Phillips D. Lee Date 11/17/89
VT-2 NA Date 1
ANI/ANII Date

(24) Reviewed By:

DR Payne Date 11/27/89
ENGINEERING
Dr. Auger Date 12/16/90
QE CE Housh Date 11/27/89
ANI/ANII Date

336-180



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ZSZ # 41-067
- (3) Piping System of Component ZCCA-26-11,12,13,14,15 & 16
- (4) Description of Component Valve ZCVC-28B
- (5) Design Temperature 650°F (6) Pressure 2350 PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 200°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any None
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Amber Cor
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
 (Required only for hydro. & pressure tests)
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: This SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE JWB-2500, CATEGORY B-P AND
JWC & D CATEGORY C-H & 24112 & JWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

N/A 1
 AP&L 11-17-89 Date
 VT-2 1 Date
 NA 1 Date
 ANI/ANI

11/27/89 Date
 ENGINEERING 12/16/90 Date
 QE 11/27/89 Date
 ANI/ANI



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 41-069
- (3) Piping System of Component 2CCA-26-11,12,13,14,15 & 16
- (4) Description of Component Loop Chargeup Line from Regen. Vt. Charge
- (5) Design Temperature 650°F (6) Pressure 2350PSIG
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 Temperature 200
- (10) Period of Time Pressure Held N/A
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure N/A
- (15) Time Completed Test 1800 (16) Test Gage No. N/A
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC&D CATEGORY C-H & 24112 & 3WD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

AP&T N/A 1
Date 11-15-89
VT-2 NA 1
Date 11-15-89
ANI/ANII NA 1
Date 11-15-89

(24) Reviewed By:

RR Payne 11/31/89
ENGINEERING Date
Sci. Anderson 12/16/90
QE Date
H.B. Ehl 11/22/89
ANI/ANII Date

336-180



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISI # 43-055
- (3) Piping System of Component 2BCA-14-1
- (4) Description of Component Valve 2CV-4780-1
- (5) Design Temperature 658°F (6) Pressure 2350 PSI/g
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 553° 652°F
TPM
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes Note: If Soap is Not Applied
 -Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
 (Required only for hydro. & pressure)
- (19) Test Accepted Yes ✓ No
- (20) If No, Why
- (21) Retest Accepted Yes No
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24112 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A 1
11-17-89
 VT-2 NA 1
 ANI/ANII

DD Payne 11/27/89
 ENGINEERING
12/16/90
 QE
11/27/89
 ANI/ANII



391 200

ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 43-057
- (3) Piping System of Component 28CA-14-1
- (4) Description of Component Valve 28V-4740-2
- (5) Design Temperature 658°F (6) Pressure 2350 psig
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 658°F
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Control Con
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐

ORIGINAL

(22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE

WITH THE REQUIREMENTS OF TABLE 3.4B-2500, CATEGORY B-P AND

FWC & D CATEGORY C-H & 24112 & 3WD-5000.

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A
[Signature] Date 11-17-89
VT-2 N/A
N/A Date 1
ANI/ANII Date

[Signature] 11/27/89
ENGINEERING Date
[Signature] 12/16/90
QE Date
[Signature] 11/27/89
ANI/ANII Date



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: PRESSURE TEST REPORT

FORM NO. 1092.111

REV. # 1

- (1) J. O. # 792096 (2) PC/DCP/PEAR/WR # ISZ # 43-059
- (3) Piping System of Component 2ACA-14-1
- (4) Description of Component Downcomer LTOP Piping
- (5) Design Temperature 658°F (6) Pressure 2350 PSI/g
- (7) Pipe Material: ☐ Carbon Steel ☒ Stainless Steel ☐ Other N/A
- (8) Type of Test: ☐ Hydrostatic ☐ Pneumatic ☐ Inservice Leak ☐ System Functional
☒ System Leakage Test Medium Process Fluid Temperature N/A
- (9) Test Pressure Minimum N/A Maximum (MIN x 106%) N/A
- (9a) Normal Operating Pressure 2250 psig Temperature 652°
- (10) Period of Time Pressure Held > 4 hrs
- (11) If Pneumatic Test, Soap Bubbles Applied: Yes ☐ Note: If Soap is Not Applied
-Test is Unacceptable
- (12) Number of Leaks Detected if any NONE
- (13) Time Started Test 1215 (14) Gauge Pressure 2300 psig
- (15) Time Completed Test 1800 (16) Test Gage No. Certified Rm
- (17) Date Test Conducted 11-15-89 (18) Calibration Date N/A
(Required only for hydro. & pressure tests).
- (19) Test Accepted Yes ☒ No ☐
- (20) If No, Why _____
- (21) Retest Accepted Yes ☐ No ☐
- (22) Remarks: THIS SYSTEM LEAKAGE TEST IS BEING CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF TABLE IWB-2500, CATEGORY B-P AND
IWC & D CATEGORY C-H & 24/12 & IWD-5000.

ORIGINAL

NOTE: VT-2 TO FILL OUT LINES (9a), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (22) IF NEEDED, AND SIGN & DATE VT-2 LINE (23).

(23) Test Witnessed By:

(24) Reviewed By:

AP&L N/A Date 11-17-89
VT-2 N/A Date 1
ANI/ANII Date

DR Payne 11/21/89
ENGINEERING Date
Joe Anderson 12/16/90
QE Date
NB Ehl 11/22/89
ANI/ANII Date