

INSERVICE INSPECTION REPORT

REFUELING 16

INTERVAL 3

PERIOD 1

OUTAGE 2

**J.M. FARLEY UNIT 1
NUCLEAR GENERATING PLANT
COLUMBIA, ALABAMA 36319**

**Southern Nuclear Operating
Company
40 Inverness Parkway
Birmingham, Alabama 35242**

**J. M. FARLEY NUCLEAR PLANT
UNIT 1
INTERVAL 3 PERIOD 1 OUTAGE 2**

SAFETY INJECTION PIPING EXAMINATION

During the RF 16 outage, a volumetric and surface examination was performed on weld ALA1-4304-7 in response to NRC Information Notice 97-19. The IN was issued as a result of a crack discovered in a Safety Injection line at Sequoyah Unit 2 during the performance of Inservice Inspection examinations. The cause of the crack was determined to be IGSCC, but was located in a similar area as cracking caused by thermal cycling, as identified in NRC Bulletin 88-08. It was determined that ALA1-4304-7 was not in the examination scope for meeting the requirements of the NRC bulletin and examinations were performed in response to the IN. No indications were identified in either the volumetric or surface examinations performed and results are located behind Tab 1.4.

CLASS 1 SYSTEM LEAKAGE TEST

The VT-2 data sheets for the Class 1 system leakage test performed at the end of the refueling outage in accordance with IWB-5210(a)(1) are included behind Tab 1.7. Data sheets are also included for the Class 1 bolting examinations performed as part of the Class 1 pressure test.

CONTROL ROD DRIVE MECHANISM VISUAL EXAMINATION

In response to industry concerns over a leaking weld on a part length CRDM noted at Prairie Island Nuclear plant, a visual examination of the five (5) Unit 1 part length CRDM's was performed during the Unit 1 RF 15 outage. The results of the visual examination were satisfactory with no indication of leakage or boron buildup noted. An unidentified material was noted on CRDM's 24 and 63. Samples that were taken were analyzed and found not to contain boric acid. A visual examination was again performed of CRDM 24 to verify the condition observed had not changed. No evidence of leakage or boric acid residue was observed.

MAIN STEAM AND MAIN FEEDWATER HANGER EXAMINATIONS

A walkdown of the Main Steam and Main Feedwater hangers on the lines from the Turbine Building to the Steam Generators was completed during the outage. The purpose was to identify any deformation of the piping supports that may have occurred. The initial examinations were completed satisfactorily with no indication of damage found. Near the end of the RF 15 outage it was noted that Main Steam hanger MS3-R4, on sketch ALA2-4100, had a cracked weld. A design change was implemented which modified the hanger and performed the repair. The hanger was inspected again during RF 16 and no indications of damage were found. Visual examination data is located behind Tab 2.3.

STEAM GENERATOR REPLACEMENT PRE-SERVICE EXAMINATIONS

The three Steam Generators for FNP Unit 1 were replaced during the RF 16 outage. Pre-service examinations for the Steam Generator welds and the Eddy-Current examinations for the tubes was performed at the production facility in Spain. This examination data is filed in the FNP Document Control in the Purchase Order documentation package. The FNP R-type (record type) for the package is C1.01. Additionally it is cross-referenced to CD-ROM disks containing the UT mechanized data (R-type R01.600) and the Eddy-Current data (R-type R01.570).

The Pre-service examination for the connection welds for the RCS, Main Steam and Main Feedwater piping is located behind Tab E.

**PART LENGTH CRDM VISUAL
EXAMINATION**

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>Farley 1</i>	Line Number/Examination Area/Weld No. <i>CRDM #24 Partial Length</i>	Drawing Number <i>N/A</i>	Sheet No. <i>N/A</i>
Photos <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> B&W <input type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote
Equipment <input type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Tools <input type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Flashlight <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Droplight <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge	
		WO/WA <i>98008047</i>	Procedure No. <i>FNP-0-NDE-100.23</i>
		Revision No. <i>3</i>	Examiner/Initial Sig. <i>Dan H. Hofels</i> Level <i>III</i>
		Examiner/Initial Sig. <i>N/A</i> Level <i>N/A</i>	Date (Month-Day-Year) <i>3-13-2000</i>
<input type="checkbox"/> SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	SAT UN-SAT N/A ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	SAT UN-SAT N/A X ___ ___ X ___ ___ X ___ ___ X ___ ___ X ___ ___ X ___ ___ X ___ ___ ___ ___ ___
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.		<input type="checkbox"/> HANGER & SUPPORTS VT-3 Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**	SAT UN-SAT N/A ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
Comments <i>Examination looking for signs of Boron, NONE OBSERVED. Photo Attached</i>			



SGR PRESERVICE EXAMINATIONS

Unit 1	Sketch/Component No. ALA2-4150-21R	Date 5/6/00	Sheet No. S00F1U274
Procedure/Rev./TCN FNP-0-NDE-100.31 / 7 / N/A		Couplant/Batch No. ULTRAGEL II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000
		Linearity Sheet No. S00F1L019	

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	PANAMETRICS	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-25	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	91060212	Serial No.	41016	Thickness	.750"	1T	80	3.0	.7	1T	80	4.0	.8
Ax. dB		Size	.50	Cal. Temp.	75	2T	45	6.0	1.45	2T	60	8.0	1.6
Ref.	29	Frequency/Mode	2.25 / S	Cal. In	2000	3T	30	9.0	2.2				
Scan	35	"A" Dimension	.35	Cal. Chk.	2137	Calibration Remarks:							
Reject	0	Nominal Angle	45	Cal. Out	2338	<i>0° MSEB 4mHz Serial No. 06605 used for Lamination Scan</i>							
Frequency	2.25	Measured Angle	45	Ref. Blk. No.	86-4333								
Mode	PE	Cable Type	RG-174	Reflector	SDH@35 db								
Damping	50	Cable Length	6'	Amplitude/Sweep	36%/2.7 div.								

Comp. Temp.: 83 °F Configuration: **ELBOW TO REDUCER** Wo Location V-STAMP Lo Location TDC

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	
5			●	1	65	42.5"	4.3"	6.0"	1.0"			1.37"					Intermittent 360
2			●	2	50	37"	41.2"	43.5"	.75"			1.37"					
2			●	3	35	29"	31"	32"	.75"			1.37"					
2			●	4	50	24.75"	25"	25.25"	.75"			1.37"					

Examination/Limitation Remarks: **LAM SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAMINATION. LAM SCAN AMPLITUDE MAINTAIN 50 TO 80 PERCENT OF FULL SCREEN HEIGHT.**

See IER-14

Total Length of Weld 44"	Crown Width 1.1"	Total Length of Weld Examined 5 (L) 44" 2 (L) 44" 7 & 8 (W) 44"	Extent of Perpendicular Scans (W) 5 - from NL to NL	Extent of Parallel Scans (L) 2 - from NL to NL
Primary Examiner GARY A. LOFTHUS	Level III	Assistant Examiner J. ERIC AYCOCK	Level III	Non-Technical Review <i>[Signature]</i>
SNC NDE Level II/III Review <i>[Signature]</i>		Date 5-7-00	Percentage of Code Coverage 100 %	ANII Review <i>[Signature]</i>
			Date 5-7-00	Date 5/12/00

Figure 1

FARLEY NUCLEAR PLANT
 Ultrasonic Examination Continuation Record

FNP-0-NDE-100.31
 Southern Nuclear Operating Company

Unit: 1 Sketch/Component No.: ALA2-4150-21R Date: 5/6/00 Sheet No.: S00F1U274 Page 2 of 3

Procedure/Rev./TCN: FNP-0-NDE-100.31 / 7 / N/A Appendix III Exams: D1 = N/A D2 = N/A Measured Angle = 45° Configuration: ELBOW TO REDUCER

Scan Dir.	Crown Width	Results			Ref No	% DAC	Length		Reference Measurement			Sweep Position		Thickness		Notes:	
		NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2		1" <--
7	●			N/A													
8	●			N/A													

Results: NRI Hal
 Results: NRL 5-6-00

Examination/Limitation Remarks: LAM SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAMINATION. LAM SCAN AMPLITUDE MAINTAIN 50 TO 80 PERCENT OF FULL SCREEN HEIGHT.

Total Length of Weld	Crown Width	Total Length of Weld Examined	Extent of Perpendicular Scans (W)			Extent of Parallel Scans (L)									
44"	1.1"	5 (L) 44" 2 (L) 44" 7 & 8 (W) 44"	5 - from	NL	to	NL	2 - from	NL	to	NL	From (5)	NL	to	(2)	NL
Primary Examiner	Level	Assistant Examiner	Level	Non-Technical Review			Date								
GARY A. LOFTHUS Hal	III	J. ERIC AYCOCK J. Eric Aycock	III	Mary A. Lofthus			5-7-00								
SNC NDE Level II/III Review	Date	Percentage of Code Coverage	ANII Review			Date									
J. Eric Aycock JTH	5-16-00	100 %	C. Lofthus			5/16/00									

Figure 1

Revision 7

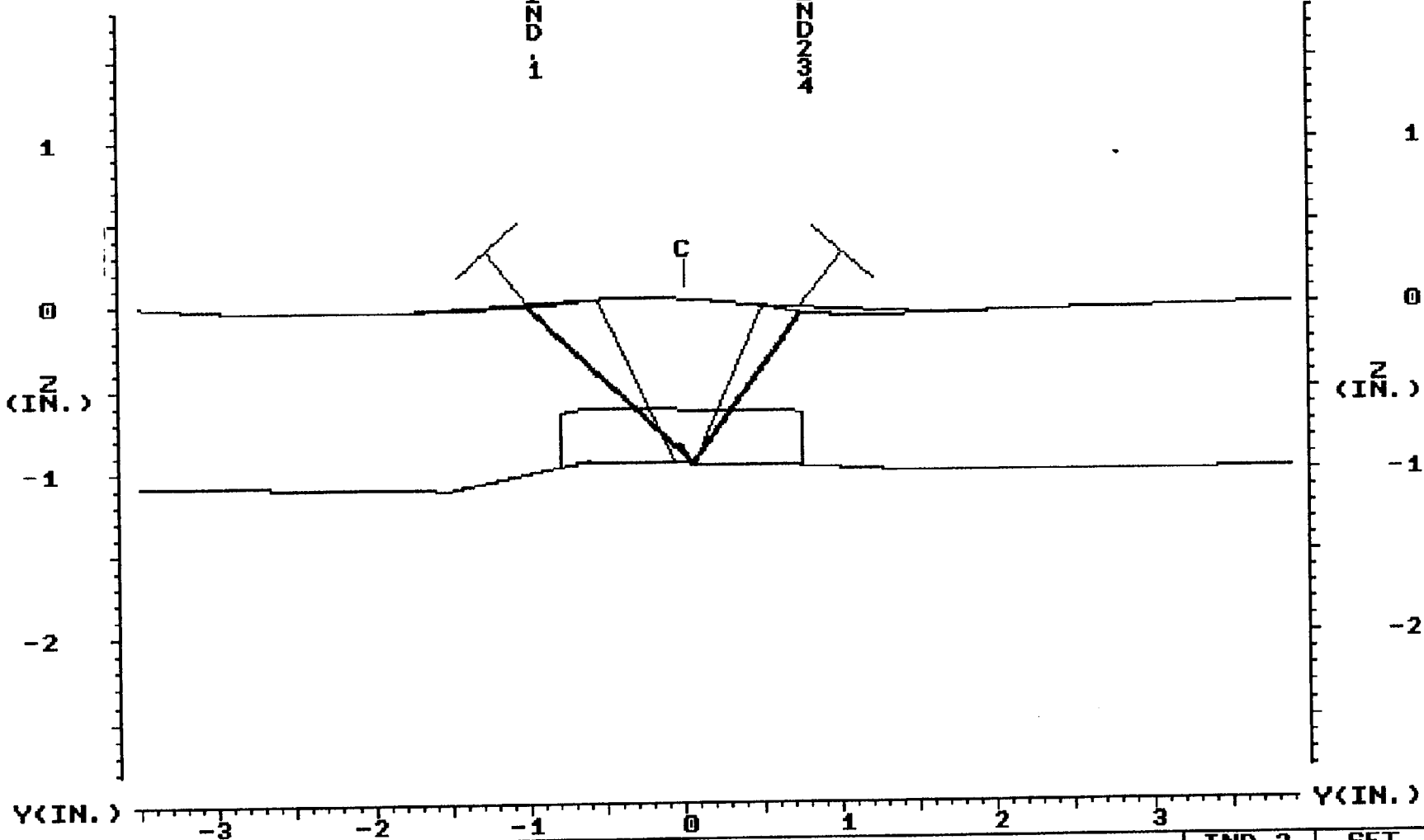
ELBOW

FLOW →

REDUCER

IND. 1

IND. 4



1	SET	1R1621R.DAT					IND. 2	SET
0.97	DEP						0.97	DEP
1.37	MP	INDICATION 1,2,3,4 ALL EVALUATED AS ID ROOT GEOMETRY					1.37	MP
29.89	TOF						29.89	TOF
	ARC							ARC
	GATE							GATE
0.010	STEP						0.010	STEP
	EXIT	MAKERAY	UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT

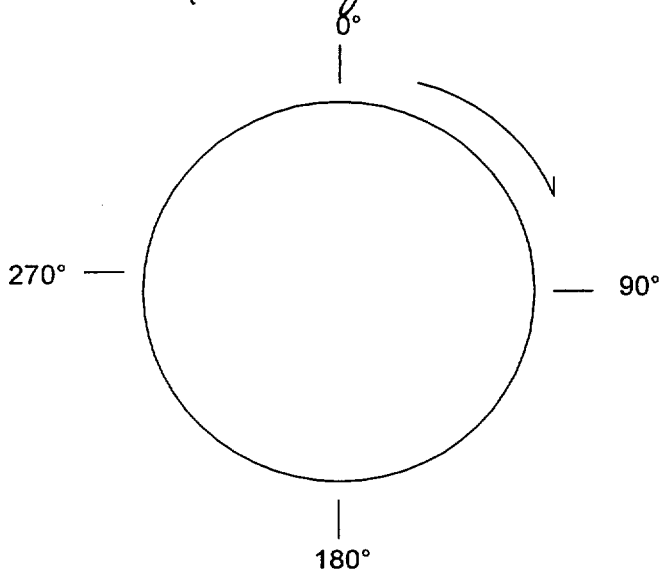
QFA 5-7-00

PLANT: PLANT FARLEY UNIT 1 5/6/00 CIRC. POS.: 90 DEGREES
 SYSTEM: FEEDWATER SG 'A' ANALYST: J. ERIC AYCOCK L/III
 COMPONENT: ALA2-4150-21R 23:36 CAL. SHEET: 500F1U274

Ultrasonic Thickness and Contour Examination Record

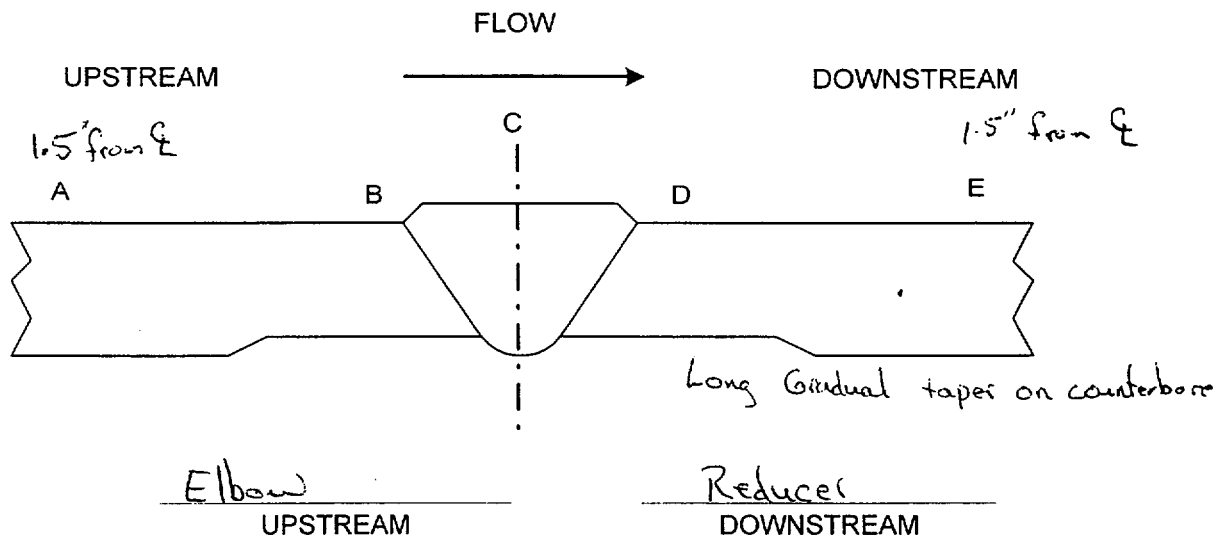
Southern Nuclear Operating Company

Unit 1	Weld Number ALA2-4150-21R	Sheet No. S00F1U280 1 of 2	Date 5/6/00
Drawing Number ALA2-4150	Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer PANAMETRICS	
Material Type <input checked="" type="checkbox"/> C/S <input type="checkbox"/> S/S Other	Calibration Standard/ Serial No. CS STEP / 86-4257	Model Number EPOCH II	Serial Number 91060212
Examiner GARY A. LOFTHUS <i>Gal</i>	SNT Level III	Transducer Manufacturer KBA	Type MSEB
Examiner J. ERIC AYCOCK <i>J. Eric Aycock</i>	SNT Level III	Serial Number 06605	Frequency 4 MHz



Location	0°	90°	180°	270°
A	0.942"	1.013"	1.042"	0.964"
B	0.947"	0.940"	1.032"	0.956"
C	1.042"	0.964"	0.973"	0.952"
D	0.981"	0.964"	0.960"	0.986"
E	1.088"	1.083"	1.117"	1.189"

(thicker →)



REMARKS:

See Sheet 2 for Weld Profiles.

Level II/III Review <i>J. Eric Aycock</i>	Level III	Date 5-7-00	Non-Technical Review <i>Gary A. Lofthus</i>	Date 5-7-00
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SOOFIU280

2 of 2

ALAE-4150-21R

0°

q/l

RED

ELBOW

RED.

q/l

ELBOW

20°

RED.

q/l

ELBOW

190°

RED.

q/l

ELBOW

210°



WPIR # P-FWA-005		NONDESTRUCTIVE EXAMINATION REPORT MAGNETIC PARTICLE EXAMINATION			REPORT # MT-00-113
JOB # 23734	JOB NAME FARLEY UNIT 1 SGR	SURFACE CONDITION <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AS WELDED		DATE 5/6/00	
ISO / DWG # FSK-M-012	ITEM / COMP ID Feedwater	TIME OF EXAM <input type="checkbox"/> N/A <input type="checkbox"/> PRE-PWHT <input checked="" type="checkbox"/> POST-PWHT	COMPONENT TEMP Ambient		
CODE / WELD CLASS ASME XI CL 2	COMPONENT CONFIGURATION ELbow to Reducer	MATL TYPE <input checked="" type="checkbox"/> CARBON STEEL	PROCEDURE & REVISION MT-ASME III / XI REV. 2		
EQUIPMENT <input checked="" type="checkbox"/> YOKE <input checked="" type="checkbox"/> AC <input checked="" type="checkbox"/> CALIBRATION VERIFIED DA400/10004 <input type="checkbox"/> 10 LBS cal. due 8/17/00	EXAM MEDIUM <input checked="" type="checkbox"/> DRY <input checked="" type="checkbox"/> VISIBLE		MFR MAGNAFLUX DESIG/COLOR 8A-RED BATCH 99H114		
INDICATION CODE: NI=NO INDICATIONS ROUND=ROUNDED INDICATION		NRI=NO RECORDABLE INDICATIONS LINEAR=LINEAR INDICATION		C=CRACK	
PART OR WELD #	ACC (✓)	REJ (✓)	IND CODE	REMARKS	
FW19C1SG	✓		NI	None	
SKETCH / COMMENTS Lift Plate # 1058 FNP ISI # ALA2-4150-21R					
M&TE NO. <u> N/A </u>					
CAL. DUE DATE: <u> N/A </u>					
EXAMINER Wad. Selly			LEVEL II	DATE 5/6/00	
REVIEW Joseph Marcotte			II	DATE 5/6/00	

Joseph Selly
L. III
DATE REVIEW: **5/12/00**

5-7-00

**FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record**

SHARED

**FNP-0-NDE-100.31
Southern Nuclear Operating Company**

Unit **1** Sketch/Component No. **ALA2-4150-22R** Date **5/6/00** Sheet No. **S00F1U276** Page **1** of **3**
 Procedure/Rev./TCN **FNP-0-NDE-100.31 / 7 / N/A** Couplant/Batch No. **ULTRAGEL II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L019**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	PANAMETRICS	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-51	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	91060212	Serial No.	41016	Thickness	.79"	1T	80	3.0	0.8	1T	80	4.0	0.8
Ax. dB	27.1	Circ. dB	32.1	Cal. Temp.	75	2T	65	6.0	1.5	2T	60	8.0	1.6
Ref.	33.1	Size	.50	Cal. In	1945	3T	40	9.0	2.3				
Scan	0	Frequency/Mode	2.25 / S	Cal. Chk.	2220	Calibration Remarks:							
Reject	2.25	"A" Dimension	.35	Cal. Out	2336	Ax. Cal. stored in location A0.							
Frequency	PE	Nominal Angle	45	Ref. Blk. No.	86-4333	Circ. Cal. stored in location A1.							
Mode	HI/400	Measured Angle	45	Reflector	SDH@35 db	0 deg. Cal. stored in location B0.							
Damping		Cable Type	RG-174	Amplitude/Sweep	36%/2.8	<i>0° m s e B Serial No. 06605 used for lamination scan.</i>							
		Cable Length	6'										

Comp. Temp.: **83** °F Configuration: **REDUCER TO NOZZLE** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	
2			●	1	25	31.4"	31.5"	31.6"	*	.85"	*	*	1.1"	*			*Spot ind. Butted at toe
5			●	2	35	2.9"	13"	17"	.55"	.7"	.9"	1.1"	1.21"	1.32"			Riding on toe / intermittent
7			●	N/A													Low level root/ verified by RT 15% DAC
8			●	N/A													

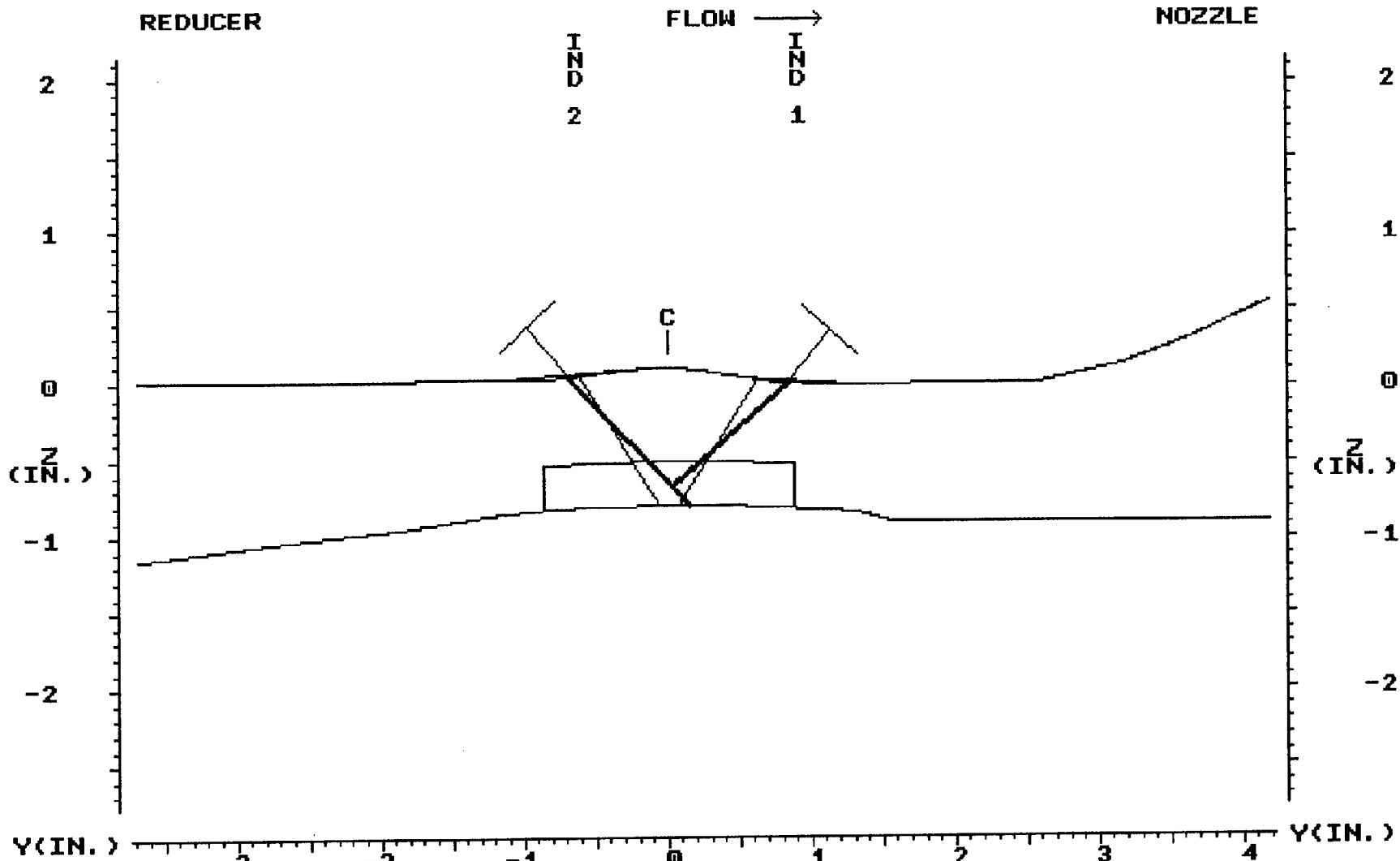
Examination/Limitation Remarks: **LAM SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAMINATION. LAM SCAN AMPLITUDE MAINTAIN 50 TO 80 PERCENT OF FULL SCREEN HEIGHT.**

See IEL-15

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)			Extent of Parallel Scans (L)		
50.25"	1.25"	5 (L) 50.25	2 (L) 50.25	7 & 8 (W) 50.25	5 - from NL to NL	2 - from NL to NL	From (5) NL to (2) NL			
Primary Examiner	Level	Assistant Examiner			Level	Non-Technical Review			Date	
GARY A. LOFTHUS	III	J. ERIC AYCOCK			III	<i>J. Eric Aycock</i>			5-7-00	
SNC NDE Level II/III Review	Date	Percentage of Code Coverage			ANII Review			Date		
<i>Gary Lofthus</i>	5-7-00	100 %			<i>J. Eric Aycock</i>			5/12/00		

Figure 1

Revision 7



1R16022R.DAT									
IND 1	SET							IND 2	SET
0.78	DEP	INDICATION 1 - CODE ACCEPTABLE SLAG CONFIRMED ON RT						0.86	DEP
1.10	MP	FILM. SEE ATTACHED SHEET FOR TABLE CALCULATION.						1.21	MP
25.55	TOF	INDICATION 2 - ROOT GEOMETRY						27.37	TOF
	ARC								ARC
	GATE								GATE
0.025	STEP							0.010	STEP
	EXIT	MAKERAY	UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT	EXIT
PLANT: PLANT FARLEY UNIT 1		5/6/00		CIRC. POS.: 80 DEGREES					
SYSTEM: FEEDWATER 'A'		0:08		ANALYST: J. ERIC AYCOCK L/III					
COMPONENT: ALA2-4150-22R				CAL. SHEET: S00F1U276					

INDICATION EVALUATION WORKSHEET TABLE IWB-3514-1 (CLASS 1 PRESERVICE INSPECTION CARBON S

WELD NUMBER ALA2-4150-22R

DATE 05/07/00

SHEET NO. S00F1U276
ANGLE 45 SHEAR

Page 3 of 3

SURFACE CONNECTED FLAW=1; SUBSURFACE=0

INDICATION NUMBER	LENGTH L	THICKNESS T [*] excluding clad	NEAR DEPTH	FAR DEPTH	Surface a value	Subsurface a value	(LIGAMENT) s	a/l	a/t	Y(S/a)
1	0.20	0.89	0.71	0.76	0.05	0.03	0.13	0.13	2.81	5.20

Y=S/a, if S is less than .4d, then it is a surface flaw
 IF S<.4d THE FLAW INDICATION IS CLASSIFIED AS A SURFACE INDI
 IF Y>1.0, USE Y=1.0
1.00

CLASS 1 TABLE FOR ALLOWABLE a/t%

ASPECT RATIO	SURFACE	SUBSURFACE	*Y=
0.000	6.812	8.528	
0.050	7.312	8.844	
0.100	8.028	9.644	
0.125	8.478	10.152	10.15
0.150	8.928	10.660	
0.200	9.852	11.752	
0.250	9.852	11.500	
0.300	9.852	11.500	
0.350	9.852	11.500	
0.400	9.852	11.500	
0.450	9.852	11.500	
0.500	9.852	11.500	

ACCEPTABLE SUBSURFACE DEFECT

SURFACE TABLE

IF not exact t	IF exact t
6.812	0.000
7.312	0.000
8.028	0.000
8.928	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000

SUBSURFACE TABLE

IF not exact t	IF exact t
8.528	0.000
8.844	0.000
9.644	0.000
10.660	0.000
11.752	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000

PRESERVICE TABLE IWB-3514-1

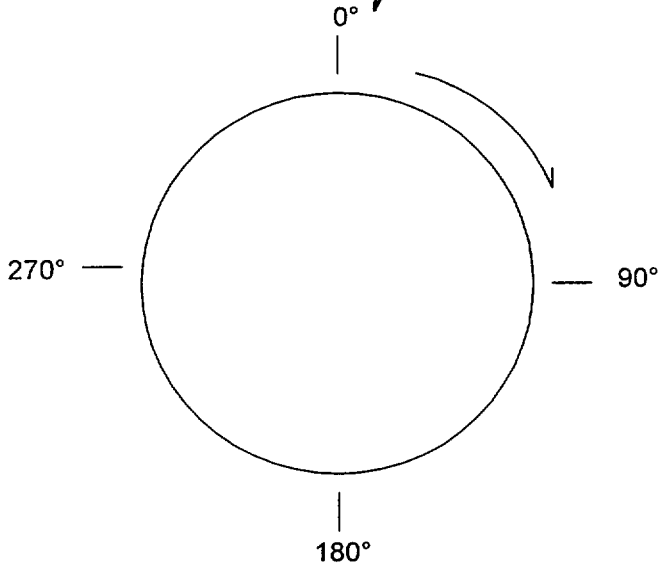
(ALLOWABLE a/t % VALUES)

Aspect Ratio	INTERPOLATED THICKNESS		1"	INTERPOLATED THICKNESS		2"	INTERPOLATED THICKNESS		3"
	<= 0.312"	0.89		not used	not used		not used		
a/l	SURFACE		SURFACE		SURFACE		SURFACE		
0	7.4	6.81	6.7	7.70	5.7	7.70	4.7	7.70	
0.05	7.9	7.31	7.2	8.20	6.2	8.60	5.0	8.00	
0.10	8.7	8.03	7.9	9.00	6.8	9.40	5.5	9.10	
0.15	9.6	8.93	8.8	10.10	7.5	10.30	6.1	10.00	
0.20	9.6	9.85	9.9	11.40	8.4	11.40	6.9	11.40	
0.25	9.6	9.85	9.9	10.30	9.5	12.90	7.8	12.90	
0.30	9.6	9.85	9.9	10.30	9.5	10.90	8.8	14.50	
0.35	9.6	9.85	9.9	10.30	9.5	10.90	8.8	14.50	
0.40	9.6	9.85	9.9	10.30	9.5	10.90	8.8	14.50	
0.45	9.6	9.85	9.9	10.30	9.5	10.90	8.8	14.50	
0.50	9.6	9.85	9.9	10.30	9.5	10.90	8.8	14.50	
	SUBSURFACE (ALL *Y)		SUBSURFACE (ALL *Y)		SUBSURFACE (ALL *Y)		SUBSURFACE (ALL *Y)		
0	9.2	8.53	8.4	9.60	7.2	10.00	5.8	9.40	
0.05	9.6	8.84	8.7	9.90	7.5	10.30	6.1	10.00	
0.10	10.4	9.64	9.5	10.90	8.1	11.10	6.6	10.80	
0.15	11.5	10.66	10.5	12.00	9.0	12.40	7.3	11.80	
0.20	11.5	11.75	11.8	13.50	10.1	13.90	8.2	13.30	
0.25	11.5	11.50	11.5	11.60	11.4	15.60	9.3	15.30	
0.30	11.5	11.50	11.5	11.60	11.4	13.20	10.5	17.40	
0.35	11.5	11.50	11.5	11.60	11.4	10.60	11.8	19.30	
0.40	11.5	11.50	11.5	11.60	11.4	10.60	11.8	16.00	
0.45	11.5	11.50	11.5	11.60	11.4	10.60	11.8	12.40	
0.50	11.5	11.50	11.5	11.60	11.4	10.60	11.8	12.40	

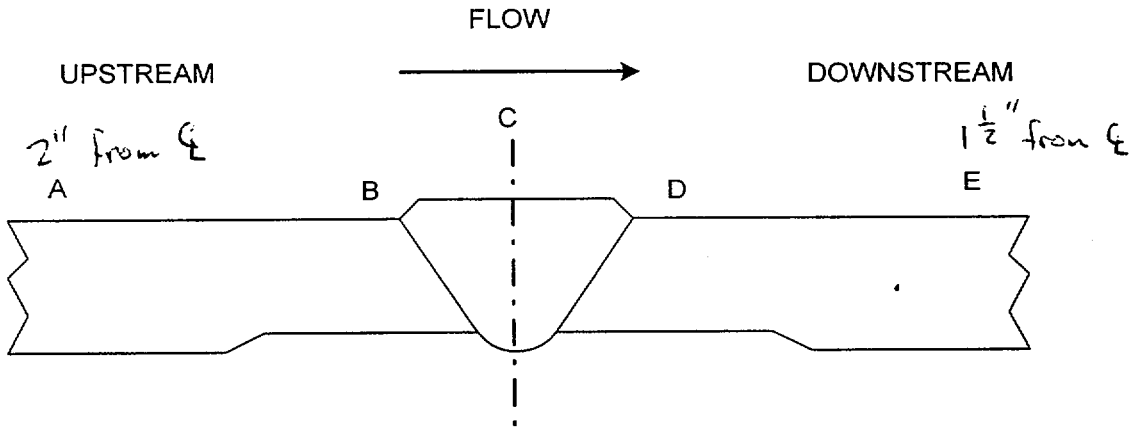
Ultrasonic Thickness and Contour Examination Record

Southern Nuclear Operating Company

Unit 1	Weld Number ALA2-4150-22R	Sheet No. S00F1U281	Date 5/6/00
Drawing Number ALA2-4150		Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer PANAMETRICS
Material Type <input checked="" type="checkbox"/> C/S <input type="checkbox"/> S/S Other	Calibration Standard/ Serial No. CS STEP / 86-4257	Model Number EPOCH II	Serial Number 91060212
Examiner GARY A. LOFTHUS	SNT Level III	Transducer Manufacturer KBA	Type MSEB
Examiner J. ERIC AYCOCK	SNT Level III	Serial Number 06605	Frequency 4 MHz



Location	0°	90°	180°	270°
A	1.134"	1.170"	1.198"	1.153"
B	0.895"	0.846"	0.952"	0.973"
C	0.902"	0.881"	0.852"	0.902"
D	0.837"	0.837"	0.822"	0.846"
E	0.865"	0.902"	0.862"	0.865"



COUNTERBORE

Reducer
UPSTREAM

Nozzle
DOWNSTREAM

REMARKS:

QEA 5-7-00
NONE See Page 2 for weld profiles.

E Level / VIII Review <i>Maryll Loftus</i>	Level III	Date 5-7-00	Non-Technical Review <i>J. Eric Aycock</i>	Date 5-7-00
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ALA2-4150-22 R

SOOF1U281 Page 2 of 2

0°

RED

d/c

NS22

90°

RED

d/c

NS22



180°

RED

d/c

NS22

270°

RED

d/c

NS22

Unit 1	Sketch/Component No. ALA2-4250-16R	Date 5/12/00	Sheet No. S00F1U278	Page 1 of 4
Procedure/Rev./TCN FNP-NDE-100.31 / 7 / N/A	Couplant/Batch No. ULTRAGEL II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000	Linearity Sheet No. S00F1L019	

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	PANAMETRICS	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-51	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	91060212	Serial No.	41016	Thickness	.79	1T	80	3.0	.7	1T	80	4.0	.8
Ax dB		Circ. dB		Cal. Temp.	70	2T	65	6.0	1.45	2T	50	8.0	1.6
Ref.	27.1	Size	.50	Cal. In	0119	3T	40	9.0	2.2				
Scan	33.1	Frequency/Mode	2.25 / S	Cal. Chk.	0205								
Reject	0	"A" Dimension	.35	Cal. Out	0403								
Frequency	2.25	Nominal Angle	45	Ref. Blk. No.	86-4333	Calibration Remarks:							
Mode	PE	Measured Angle	45	Reflector	SDH@35db	<i>MSEB 4MHZ 06605 was used to perform the lamination scan. ALA 5-12-00</i>							
Damping	HIGH/400	Cable Type	RG-174	Amplitude/Sweep	36%/2.8 DIV								
		Cable Length	6'										

Comp. Temp.: **92** °F Configuration: **REDUCER TO NOZZLE** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness		Notes:	
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L		--> 1"
5				N/A														
2				1	25	17.65"	18.25"	18.75"	-	.78"	-	-	1.22"	-	.82"	.868"	.82"	LOW AMP. SIGNAL ON 5 SIDE
2				2	30	23.65"	23.75"	23.85"	-	.85"	-	-	1.26"	-	-	-	-	
7				3	20	.4"	.5"	.625"	*	0	*	1.12"	1.09"	1.06"	-	.750"	-	.1" LENGTH

Examination/Limitation Remarks: **LAM SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAMINATION. LAM SCAN AMPLITUDE MAINTAIN 50 TO 80 PERCENT OF FULL SCREEN HEIGHT.**

See IER-17

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)						
51"	1.2"	5 (L) 51	2 (L) 51	7 & 8 (W) 51	5 - from	NL	to	NL	2 - from	NL	to	NL	From (5) NL	to	(2) NL
Primary Examiner GARY A. LOFTHUS	Level III	Assistant Examiner J. ERIC AYCOCK	Level III	Non-Technical Review <i>J. Eric Aycock</i>	Date 5-12-00	Percentage of Code Coverage 100 %	ANII Review <i>C. G. Wood</i>	Date 5-12-00							
SNC NDE Level III/III Review <i>Gary A. Loftus</i>	Level III	Date 5-12-00	Percentage of Code Coverage 100 %	ANII Review <i>C. G. Wood</i>	Date 5-12-00										

Figure 1

FARLEY NUCLEAR PLANT
 Ultrasonic Examination Continuation Record

FNP-NDE-100.31
 Southern Nuclear Operating Company

Unit 1 Sketch/Component No. ALA2-4250-16R

Date 5/12/00

Sheet No. S00F1U278

Page 2 of 4

Procedure/Rev./TCN

FNP-NDE-100.31 / 7 / N/A

Appendix III Exams.

D1 = NA

D2 = NA

Measured Angle = 45 °

Configuration

REDUCER TO NOZZLE

Scan Dir.	Crown Width	Results			Ref No	% DAC	Length			Reference Measurement			Sweep Position			Thickness		Notes:
		NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	
8				4	20	2.5"	2.375"	2.25"	*	0	*	1.18"	1.12"	1.06"	-	.750"	-	.1" LENGTH

Examination/Limitation Remarks: LAM SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAMINATION. LAM SCAN AMPLITUDE MAINTAIN 50 TO 80 PERCENT OF FULL SCREEN HEIGHT.

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
51"	1.2"	5 (L) 51	2 (L) 51	7 & 8 (W) 51	5 - from NL to NL	2 - from NL to NL	From (5) NL to (2) NL						
Primary Examiner GARY A. LOFTHUS		Level III	Assistant Examiner J. ERIC AYCOCK	Level III	Non-Technical Review J. Eric Aycock	Date 5-12-00	Percentage of Code Coverage 100 %	ANII Review J. Eric Aycock	Date 5-12-00				
SNC NDE Level III/III Review Gary A. Loftus		Level III	Date 5-12-00	Percentage of Code Coverage 100 %	ANII Review J. Eric Aycock	Date 5/12/00							

Figure 1

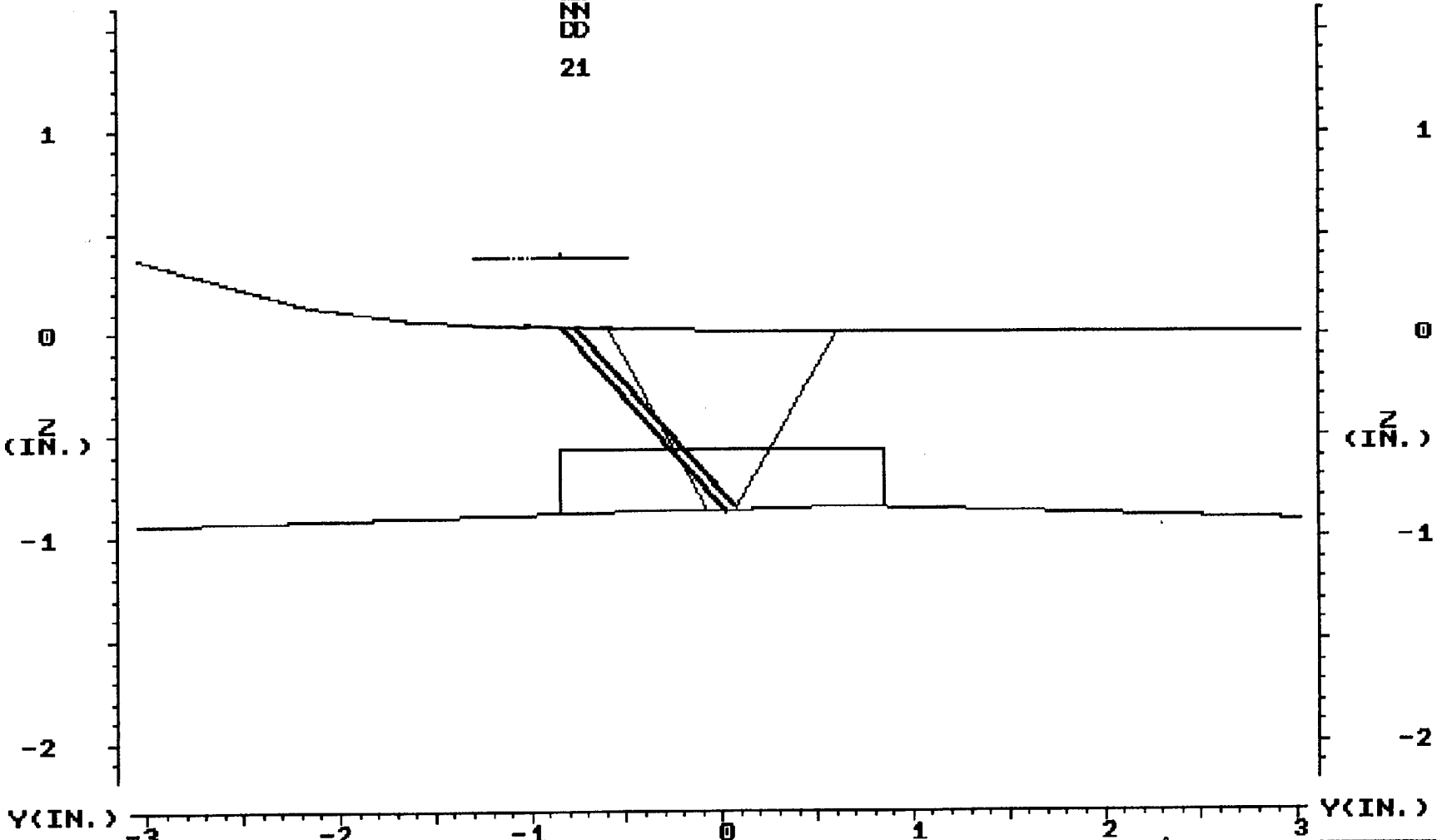
Revision 7

NOZZLE

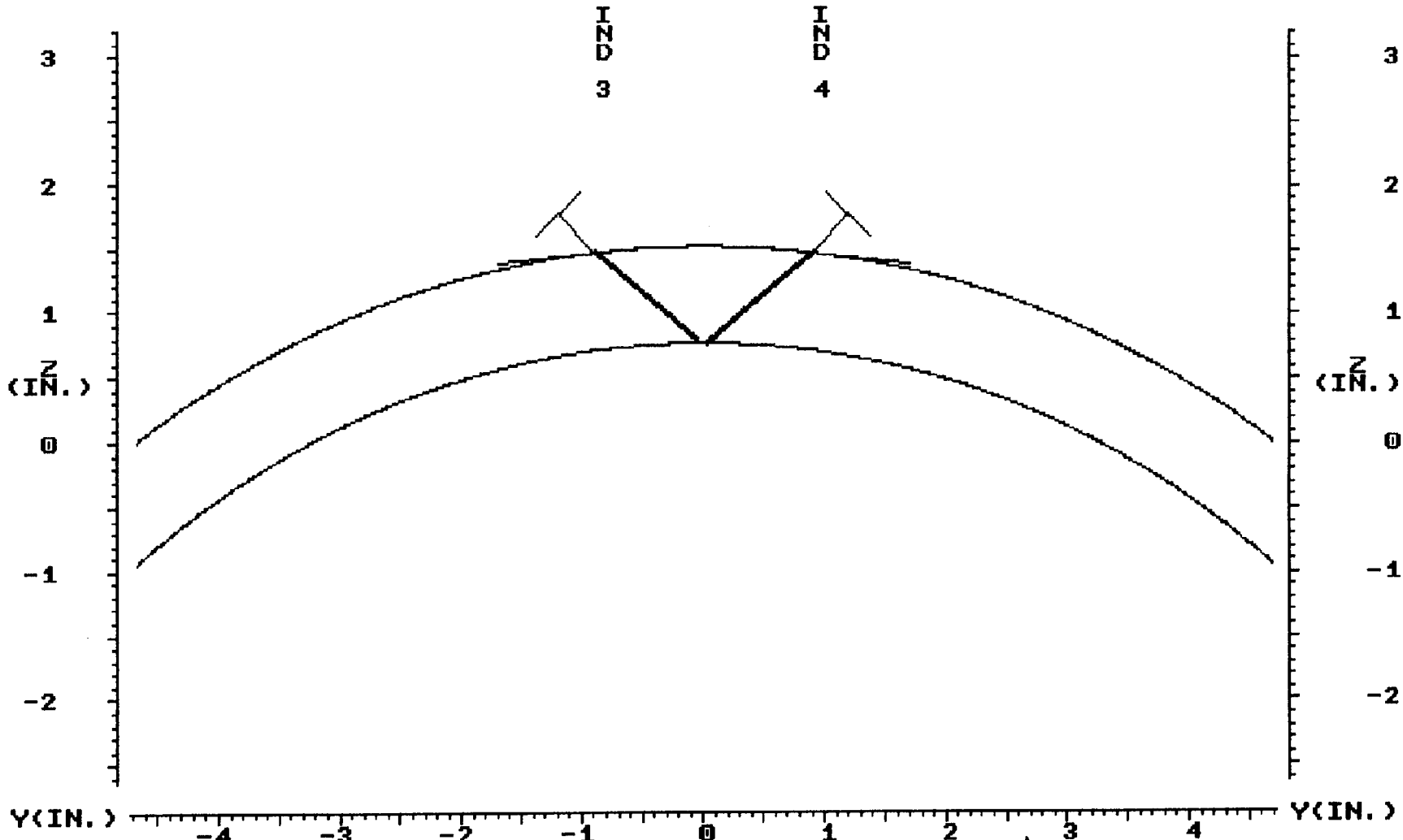
← FLOW

REDUCER

IND
00
21



IND 1		1R16016R		IND 2		SET
0.86	SET			0.00	DEP	
1.22	DEP			0.00	MP	
27.51	MP			8.00	TOF	
	TOF	INDICATION 1 AND 2 ARE ROOT GEOMETRY.			FAN	
	ARC	INDICATION 3 AND 4 ARE ID GEOMETRY IN REPAIRED AREA			GATE	
	GATE	AND PLOT TO THE SAME PLACE IN THE CENTER OF THE WELD			STEP	
0.010	STEP	SEE SHEET 3 FOR INDICATIONS 3 AND 4 (CIRC)		1.000	EXIT	
	EXIT	MAKERAY	UTILITY	LEFT	RIGHT	TOP
PLANT: PLANT FARLEY UNIT 1		5/12/00	CIRC. POS.: 0 DEGREE			
SYSTEM: FEEDWATER 'B'		3:05	ANALYST: J. ERIC AYCOCK L/III			
COMPONENT: ALA2-4250-16R			CAL. SHEET: S00F1U278			

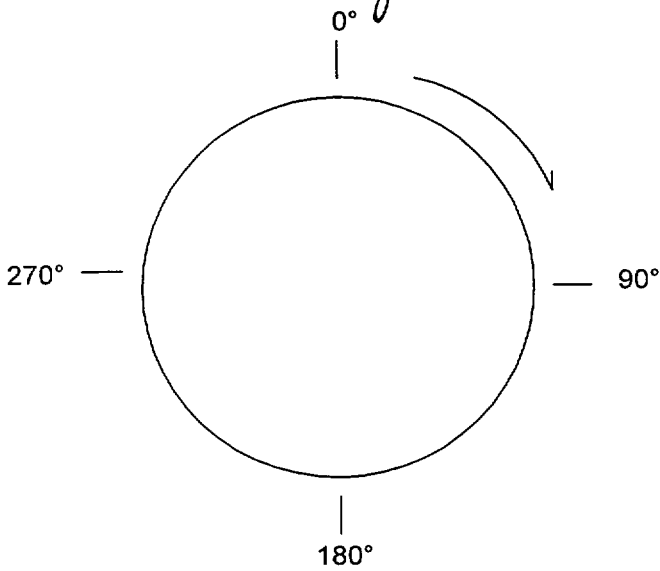


IND 3		SET	CIRC16R.DAT					IND 4	SET		
0.77		DEP	INDICATION 3 AND 4 ARE ID GEOMETRY IN REPAIRED AREA AND PLOT TO THE SAME PLACE IN THE CENTER OF THE WELD					0.79	DEP		
1.09		MP						25.49	TOP	0.12	MP
		ARC							ARC	25.91	TOP
		GATE							GATE		ARC
0.010		STEP		STEP	0.010	STEP	EXIT				
EXIT		MAKERAY	UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT			
PLANT: FARLEY UNIT 1		5/12/00			CIRC. POS.: 1.4"		ANALYST: J. ERIC AYCOCK L/III				
SYSTEM: FEEDWATER 'B'						CAL. SHEET: S00F1U278 PAGE 40F4					
COMPONENT: ALA2-4250-16R											

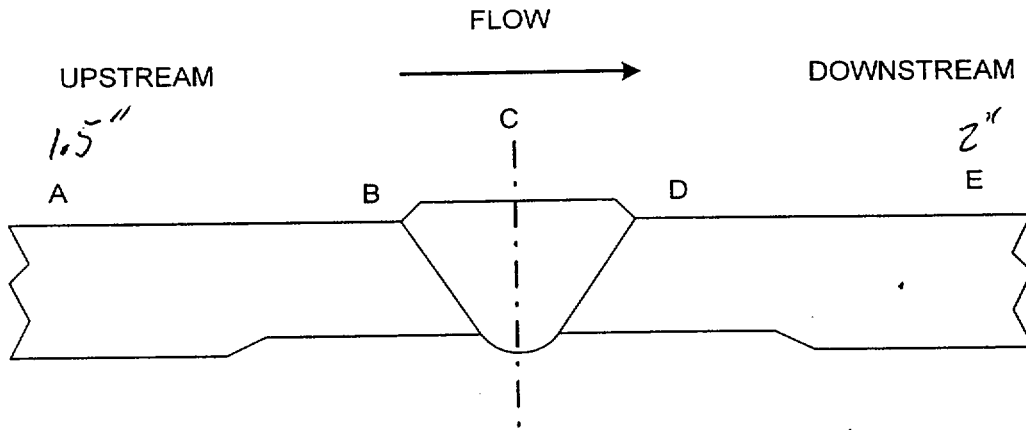
Ultrasonic Thickness and Contour Examination Record

Southern Nuclear Operating Company

Unit 1	Weld Number ALA2-4250-16R	Sheet No. <i>1 of 2</i>	Date 5/12/00
Drawing Number ALA2-4250	Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer PANAMETRICS	
Material Type <input checked="" type="checkbox"/> C/S <input type="checkbox"/> S/S Other	Calibration Standard/ Serial No. CS STEP / 86-4263	Model Number EPOCH II	Serial Number 91060212
Examiner GARY A. LOFTHUS	SNT Level III	Transducer Manufacturer KBA	Type MSEB
Examiner J. ERIC AYCOCK	SNT Level III	Serial Number 06605	Frequency 4 MHz



Location	0°	90°	180°	270°
A	.928	.918	.909	.879
B	.850	.860	.839	.829
C	.808	.888	.860	.839
D	.860	.888	.900	.860
E	.900	.900	.888	.888



COUNTERBORE

Reducer
UPSTREAM

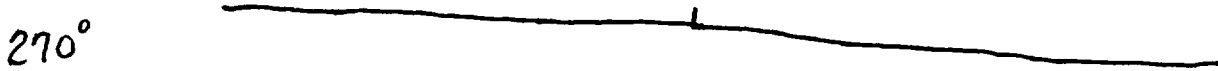
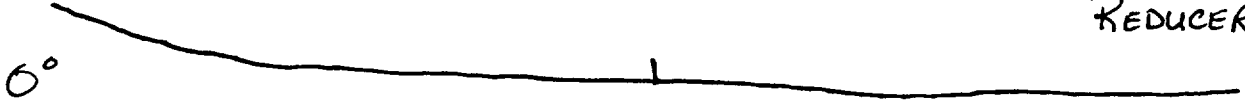
Nozzle
DOWNSTREAM

REMARKS: *Center of weld at 1" is ground flush and reading .750"*

Level II/III Review <i>Gary A. Loftus</i>	Level III	Date 5-12-00	Non-Technical Review <i>J. Eric Aycock</i>	Date 5-12-00
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NOZZLE

REDUCER





WP&IR # <i>P-FWB-067</i>		NONDESTRUCTIVE EXAMINATION REPORT MAGNETIC PARTICLE EXAMINATION		REPORT # <i>MT-00-011</i>
JOB # <i>23734</i>	JOB NAME <i>Farley Unit 1 SGRP</i>	SURFACE CONDITION <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AS WELDED		DATE <i>3/13/00</i>
ISO / DWG # <i>FSK-M-163</i>	ITEM / COMP ID <i>Feedwater</i>	TIME OF EXAM <input type="checkbox"/> N/A <input type="checkbox"/> PRE-PWHT <input checked="" type="checkbox"/> POST-PWHT		COMPONENT TEMP <i>Ambient</i>
CODE / WELD CLASS <i>ASME II / C-F-2</i>	COMPONENT CONFIGURATION <i>sock-o-let</i>	MATL TYPE <input checked="" type="checkbox"/> CARBON STEEL	PROCEDURE & REVISION <i>MT-ASME III/II 4/2</i>	
EQUIPMENT <input checked="" type="checkbox"/> YOKE <input checked="" type="checkbox"/> AC <input checked="" type="checkbox"/> CALIBRATION VERIFIED <i>DA-400 #9400</i> <input type="checkbox"/> 10 LBS <i>cal. due 8/17/00</i>	EXAM MEDIUM <input checked="" type="checkbox"/> DRY <input checked="" type="checkbox"/> VISIBLE <i>Batch # 99H114</i>	MANUFACTURER <i>Magnaflux</i> DESIGN / COLOR <i>SA-Red</i>		
INDICATION CODE: NI=NO INDICATIONS NRI=NO RECORDABLE INDICATIONS C=CRACK ROUND=ROUNDED INDICATION LINEAR=LINEAR INDICATION				

PART OR WELD #	ACC (N)	REJ (N)	IND CODE	REMARKS
<i>FW-15G</i>	<i>✓</i>		<i>NI</i>	<i>note: ID of weld not accessible</i>
<i>PSI # ALA2-4250-22R BC gpa 3/20/00</i>				<i>for inspection</i>

SKETCH / COMMENTS

M&TE NO. *Lift Plate Ser # 1058*
 CAL. DUE DATE: *NA*

EXAMINER <i>Wanda Sills</i>	LEVEL <i>II</i>	DATE <i>3/14/00</i>
REVIEW <i>CBY/ag</i>	<i>III</i>	DATE <i>3/20/00</i>

SNC Review - J. Eric Ojock J-III 4-17-00 *final review: C. G. Wood 4/20/00*

FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA2-4350-23R	Date 5/11/00	Sheet No. S00F1U275	Page <u>1</u> of <u>1</u>
Procedure/Rev./TCN FNP-0-NDE-100.31 / 7 / N/A		Thermometer SN/Cal Due Date 38193 / 8/27/2000		Linearity Sheet No. S00F1L019
Couplant/Batch No. ULTRAGEL II / 00125				

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	PANAMETRICS	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-25	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	91060212	Serial No.	41016	Thickness	.750"	1T	80	3.0	.7	1T	80	4.0	.8
Ax. dB		Size	.50	Cal. Temp.	75	2T	45	6.0	1.45	2T	60	8.0	1.6
Ref.	29	Frequency/Mode	2.25 / S	Cal. In	09:05 hrs	3T	30	9.0	2.2				
Scan	35	"A" Dimension	.35	Cal. Chk.	n/a								
Reject	0	Nominal Angle	45	Cal. Out	12:36 hrs	Calibration Remarks: 06605 0 deg. MSEB used to perform lamination scan.							
Frequency	2.25	Measured Angle	45	Ref. Blk. No.	n/a								
Mode	PE	Cable Type	RG-174	Reflector	n/a								
Damping	HI / 400	Cable Length	6'	Amplitude/Sweep	n/a								

Comp. Temp.: **84** °F Configuration: **ELBOW TO REDUCER** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	--> 1"	
2	○	●	○	N/A														
5	○	●	○	N/A														
7	○	●	○	N/A														
8	○	●	○	N/A														

Examination/Limitation Remarks: **LAM SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAMINATION; AMPLITUDE MAINTAINED 50 TO 80 PERCENT FSH.**

LOW LEVEL (LESS THAN 20% DAC) ROOT SIGNALS SEEN INTERMITTENTLY.

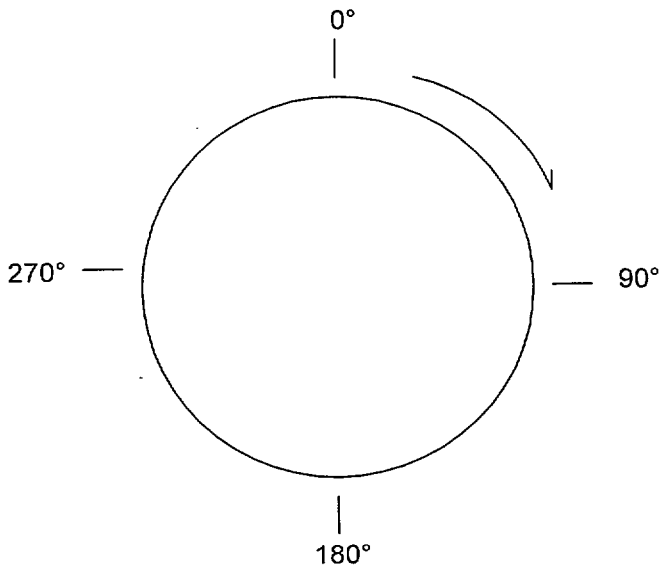
Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
44"	1.0"	5 (L) <u>NL</u>	2 (L) <u>NL</u>	7 & 8 (W) <u>NL</u>	5 - from <u>NL</u> to <u>NL</u>	2 - from <u>NL</u> to <u>NL</u>	From (5) <u>NL</u> to (2) <u>NL</u>					
Primary Examiner PAUL DIVALERIO	Level II	Assistant Examiner SCOTT R. ERICKSON			Level II	Non-Technical Review <i>[Signature]</i>			Date 5/12/00			
SNG NDE Level II/III Review <i>[Signature]</i>		Date 5-11-00	Percentage of Code Coverage 100 %			ANII Review <i>[Signature]</i>			Date 5/12/00			

Figure 1

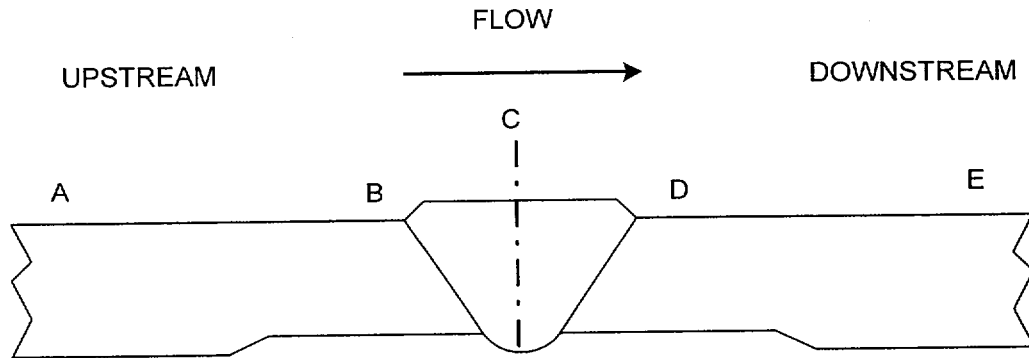
Ultrasonic Thickness and Contour Examination Record

Southern Nuclear Operating Company

Unit 1	Weld Number ALA2-4350-23R	Sheet No. S00F1U283 1 of 2	Date 5/11/00
Drawing Number ALA2-4350	Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer PANAMETRICS	
Material Type <input checked="" type="checkbox"/> C/S <input type="checkbox"/> S/S Other	Calibration Standard/ Serial No. CS STEP / 86-4257	Model Number EPOCH II	Serial Number 91060212
Examiner PAUL DIVALERIO <i>Paul Divalerio</i>	SNT Level II	Transducer Manufacturer KBA	Type MSEB
Examiner SCOTT R. ERICKSON <i>Scott R. Erickson</i>	SNT Level II	Serial Number 06605	Size 3.5X10MM
			Frequency 4 MHz



Location	0°	90°	180°	270°
A	.893	.839	1.05	1.03
B	.839	.839	1.01	1.02
C	.813	.857	.876	.893
D	.958	N/A	.911	.958
E	1.309	1.30	1.34	1.34



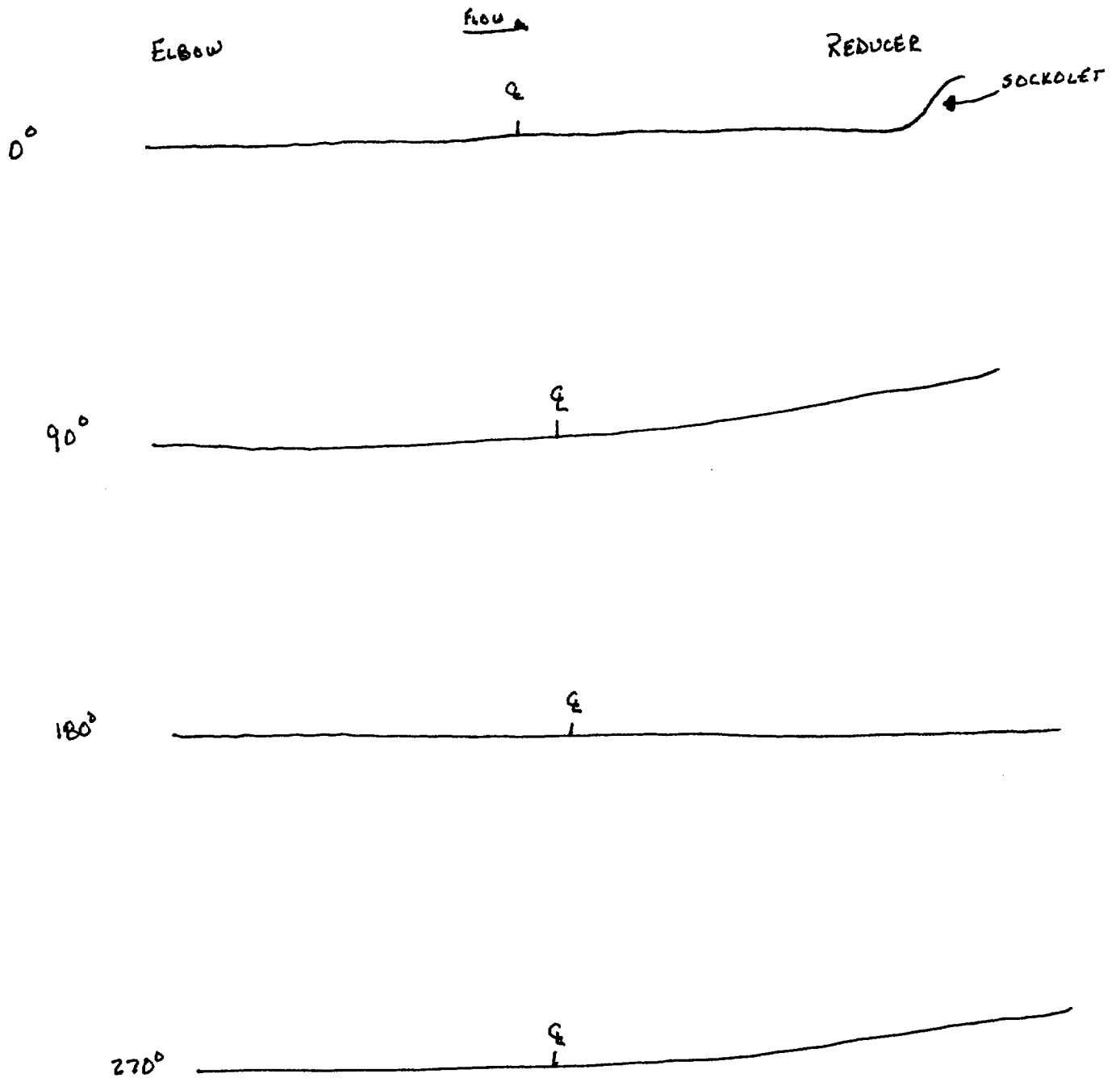
COUNTERBORE

*Elbow
Reducer 48a 5-11-00*
UPSTREAM

*Reducer
Nozzle 48a 5-11-00*
DOWNSTREAM

REMARKS: *N/A*

Level II/III Review <i>J. Eric O'Rock</i>	Level <i>III</i>	Date <i>5-11-00</i>	Non-Technical Review <i>Daryl J. Lottus</i>	Date <i>5-12-00</i>
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FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

SHARED

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA2-4350-24R** Date **5/11/00** Sheet No. **S00F1U287** Page **1** of **2**
 Procedure/Rev./TCN **FNP-0-NDE-100.31 / 7 / N/A** Couplant/Batch No. **ULTRAGEL II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L019**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	PANAMETRICS	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-51	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	91060212	Serial No.	41016	Thickness	.79	1T	80	3.0	.7	1T	80	4.0	.8
Ax. dB		Size	.50	Cal. Temp.	75	2T	45	6.0	1.45	2T	60	8.0	1.6
Ref.	27.1	Frequency/Mode	2.25 / S	Cal. In	09:10 hrs	3T	30	9.0	2.2				
Scan	33.1	"A" Dimension	.35	Cal. Chk.	N/A	Calibration Remarks: 06605 MSEB 0 deg. was used to perform lamination scan.							
Reject	0	Nominal Angle	45	Cal. Out	12:30 hrs								
Frequency	2.25	Measured Angle	45	Ref. Blk. No.	N/A								
Mode	PE	Cable Type	RG-174	Reflector	N/A								
Damping	HI / 400	Cable Length	6'	Amplitude/Sweep	N/A								

Comp. Temp.: **84** °F Configuration: **REDUCER TO NOZZLE** Wo Location **V- Stamp** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	L1	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI				Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	-->1"		
2			●	1	17	*	41.65	*	*	.8	*	1.28	1.04	0.850	0.937	*- SPOT			
5			●	2	10	42	42.05	42.1	*	.9	*	1.33	1.04	0.850	0.937				
7			●	3	25	*	40.75	*	*	0	*	1.68	1.04	0.850	0.937				
8			●	4	20	*	42.75	*	*	0	*	1.49	1.04	0.850	0.937				

Examination/Limitation Remarks: **LAMINATION SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAM; MAINTAINED AMPLITUDE OF 50 TO 80 PERCENT FSH.**

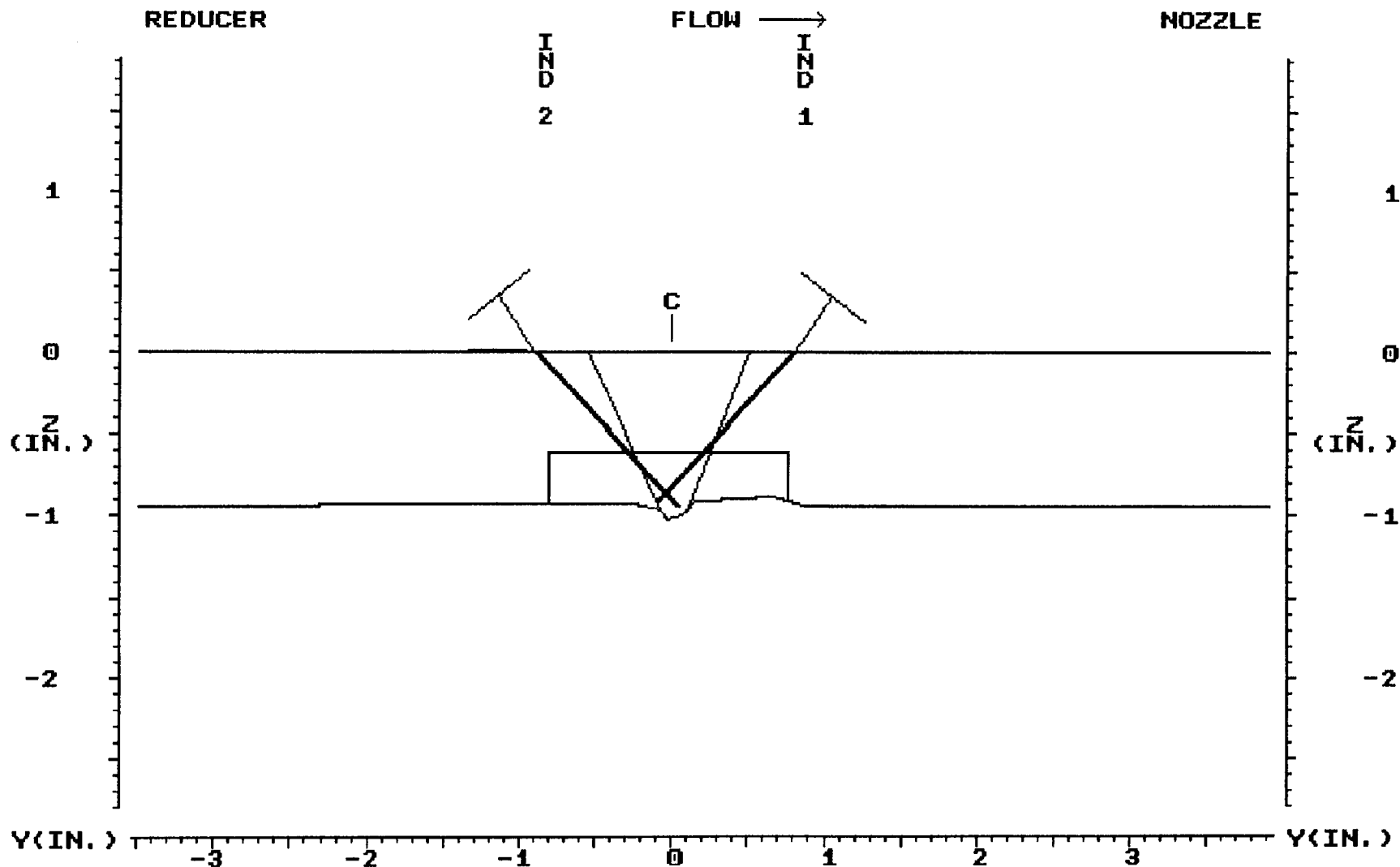
LOW LEVEL (LESS THAN 20%) ROOT SIGNALS SEEN INTERMITTENTLY.

See IER-16

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
50.25	1.2"	5 (L) NL	2 (L) NL	7 & 8 (W) NL	5 - from NL	to NL	2 - from NL	to NL	From (5) NL	to (2) NL		
Primary Examiner	Level	Assistant Examiner			Level	Non-Technical Review			Date			
PAUL DIVALERIO <i>Paul Divalerio</i>	II	SCOTT R. ERICKSON <i>Scott R. Erickson</i>			II	<i>Henry L. Lopez</i>			5-12-00			
SNO NDE Level II/III Review		Date	Percentage of Code Coverage			ANII Review			Date			
<i>J. Eric Poycock L-III</i>		5-12-00	100 %			<i>Edward</i>			5/12/00			

Figure 1

Revision 7

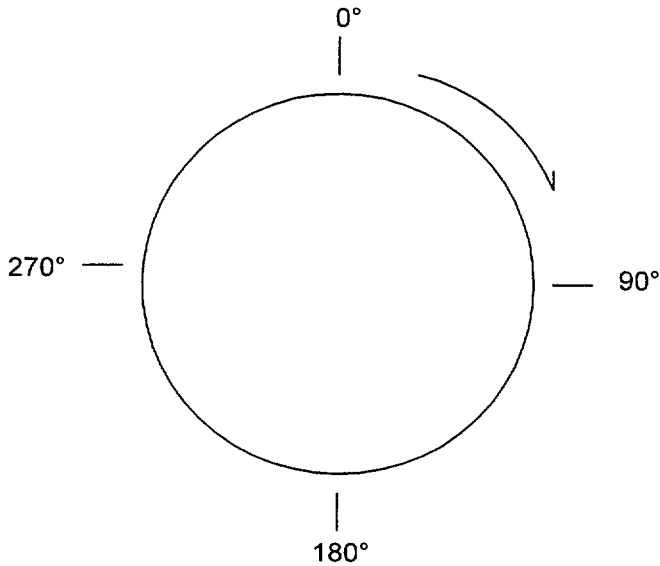


IND 1		1R16024R.DAT						IND 2	
0.90	SET	INDICATION 1,2,3,4 ALL ARE REFLECTED FROM ROOT						0.94	SET
1.28	DEP	GEOMETRY (ROOT CONVEXITY) THAT WAS CONFIRMED ON THE						1.33	DEP
28.44	MP	RT FILM. INDICATIONS 3 AND 4 ARE NOT SHOWN ABOVE AS						29.28	MP
	TOF	THEY ARE FROM CIRCUMFERENTIAL SCANS. THESE ARE ALL							TOF
	ARC	LOW AMPLITUDE (FROM 10 TO 25% DAC) WITH THE TWO CIRC							ARC
0.010	GATE	REFLECTORS JUST ABOVE THE RECORDABLE CRITERIA. <i>See</i>						0.010	GATE
	STEP	MAKERAY	UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT	
	EXIT								EXIT
PLANT: PLANT FARLEY UNIT 1		5/11/00		CIRC. POS.: 0 DEGREES					
SYSTEM: FEEDWATER SG 'C'		14:49		ANALYST: J. ERIC AYCOCK L/III					
COMPONENT: ALA2-4350-24R				CAL. SHEET: S00F1U287					

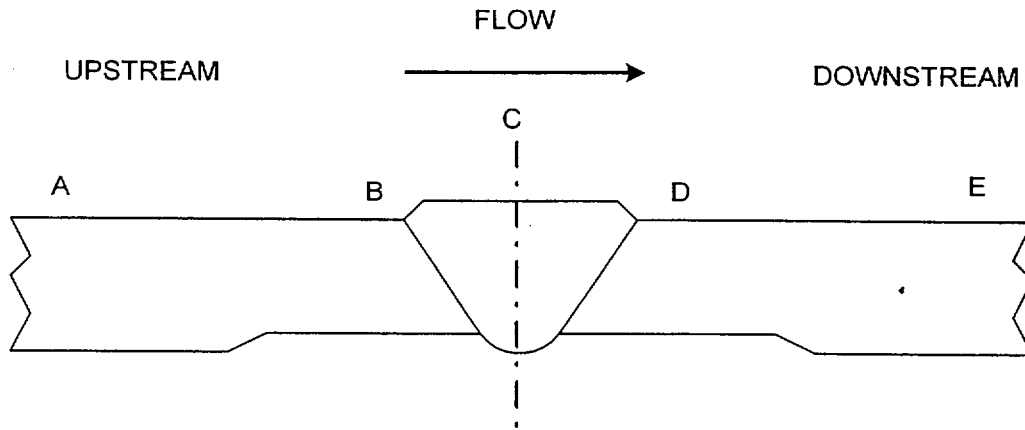
Ultrasonic Thickness and Contour Examination Record

Southern Nuclear Operating Company

Unit 1	Weld Number ALA2-4350-24R	Sheet No. S00F1U284	Date 5/11/00
Drawing Number ALA2-4350	Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer PANAMETRICS	
Material Type <input checked="" type="checkbox"/> C/S <input type="checkbox"/> S/S Other	Calibration Standard/ Serial No. CS STEP / 86-4257	Model Number EPOCH II	Serial Number 91060212
Examiner PAUL DIVALERIO <i>Paul Divalerio</i>	SNT Level II	Transducer Manufacturer KBA	Type MSEB
Examiner SCOTT R. ERICKSON <i>Scott R. Erickson</i>	SNT Level II	Serial Number 06605	Frequency 4 MHz
		Size 3.5X10MM	



Location	0°	90°	180°	270°
A	1.04	1.19	1.218	1.21
B	.922	.941	.850	.941
C	.850	.839	.803	.886
D	.889	.876	.876	.876
E	.937	.958	.966	.949



COUNTERBORE

Reducer
UPSTREAM

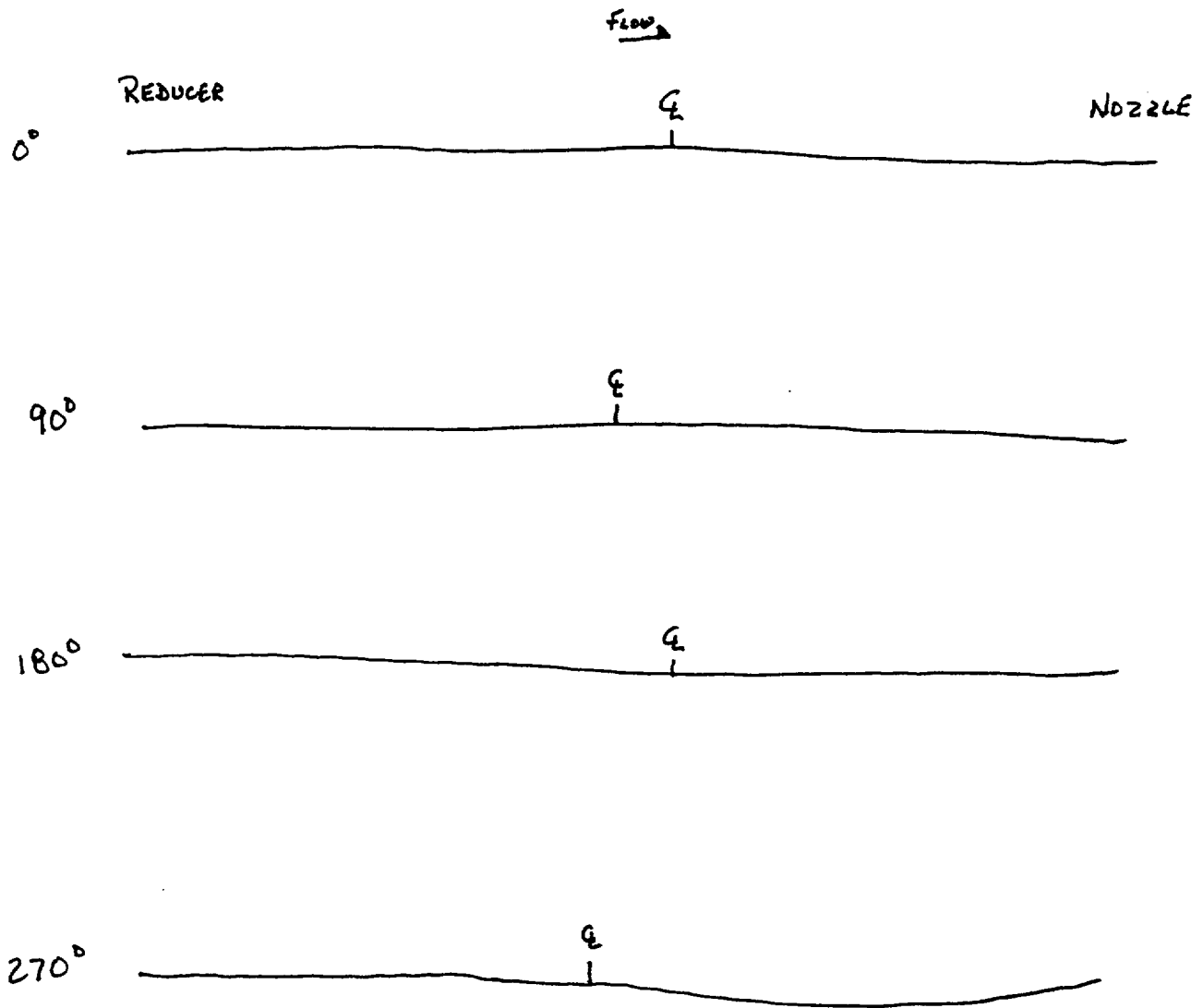
Nozzle
DOWNSTREAM

REMARKS: *N/A*

Level III/III Review <i>J. Eric Orzech</i>	Level III	Date 5-11-00	Non-Technical Review <i>Samuel J. [Signature]</i>	Date 5-12-00
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ALA2-4350-24R

Sheet No.
S00FIU2B7 2 of 2
4
482 5-11-00





WP&IR # **P-FWC-068** **NONDESTRUCTIVE EXAMINATION REPORT** **MAGNETIC PARTICLE EXAMINATION** REPORT # **MT-00-137**

JOB # **23734** JOB NAME **Farley Unit 1 SGRP** SURFACE CONDITION GROUND AS WELDED DATE **5/10/00**

ISO / DWG # **FSK-M-150** ITEM / COMP ID **FW** TIME OF EXAM N/A PRE-PWHT POST-PWHT COMPONENT TEMP **AMBIENT**

CODE / WELD CLASS **ASME XI / CL 2** COMPONENT CONFIGURATION **REDUCER To NOZZLE** MATL TYPE CARBON STEEL PROCEDURE & REVISION **MT-ASME III/XI R/2**

EQUIPMENT YOKE AC **DA-400** EXAM MEDIUM DRY VISIBLE BATCH # **99H114**
 CALIBRATION VERIFIED **SN-10004** MANUFACTURER **MAGNAFLUX** DESIG / COLOR **BA RED**
 10 LBS **Cal Due 8-17-00**

INDICATION CODE: NI=NO INDICATIONS NRI=NO RECORDABLE INDICATIONS C=CRACK
 ROUND=ROUNDED INDICATION LINEAR=LINEAR INDICATION

PART OR WELD #	ACC (✓)	REJ (✓)	IND CODE	REMARKS
FW 23-SG R1	✓		NI	NONE

SKETCH / COMMENTS **LIFT PLATE # 1058**

FNP ISI # ALA2-4350-24R

M&TE NO. N/A

CAL. DUE DATE: N/A

EXAMINER **Sam E. Drigler** LEVEL **II** DATE **5/10/00**

REVIEW **Arbajal** DATE **5/11/00**

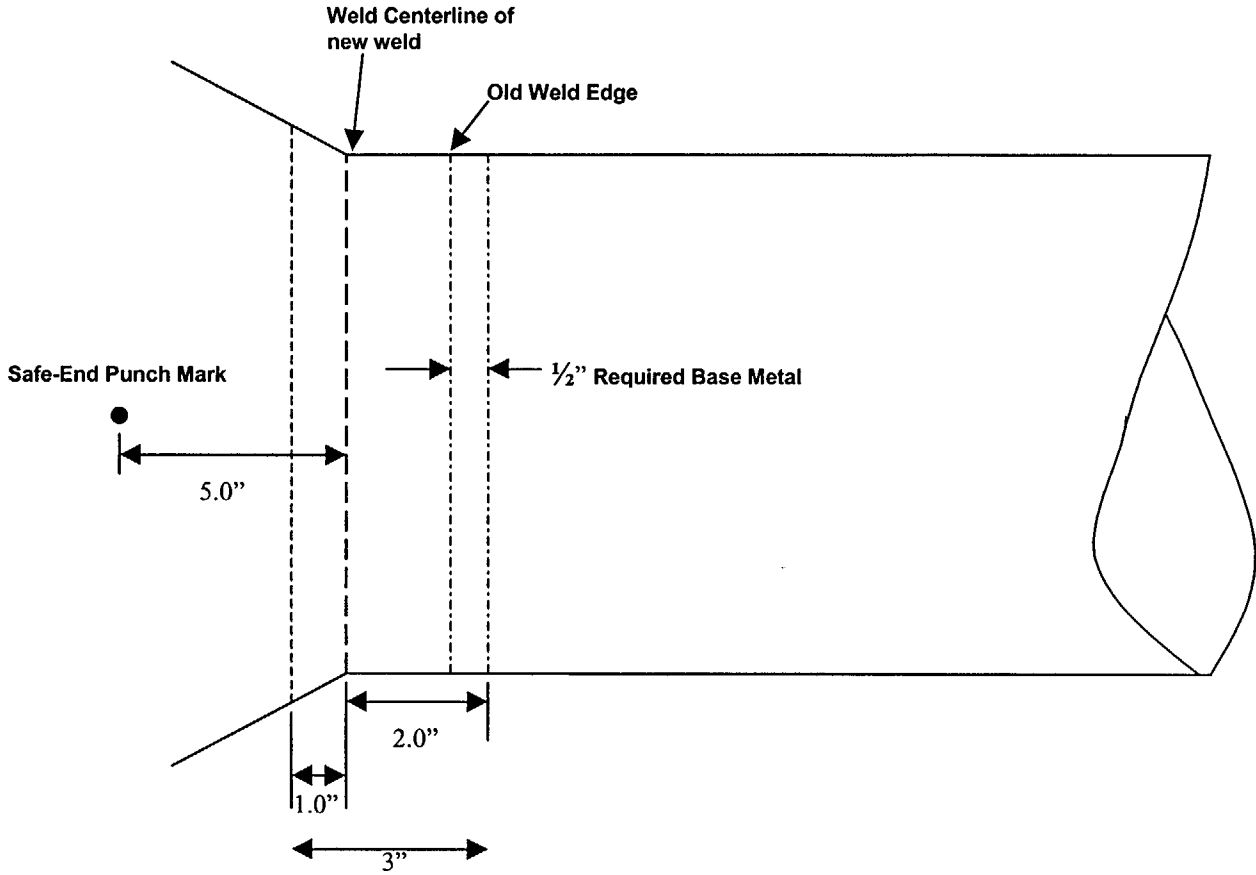
7 Eric Agock #11 5-11-00 **ANSI REVIEW: Cg Ward 5/12/00**



WPIR # P-RCA-030		NONDESTRUCTIVE EXAMINATION REPORT LIQUID PENETRANT EXAMINATION				REPORT # PT-00-142	
JOB # 23734		JOB NAME FARLEY UNIT 1 SGR			SURFACE CONDITION <input checked="checked" type="checkbox"/> GROUND <input type="checkbox"/> AS WELDED		DATE 4-16-00
ISO / DWG # FSK-M-144		ITEM / COMP ID FW1-SG		TIME OF EXAM <input checked="checked" type="checkbox"/> N/A <input type="checkbox"/> PRE-PWHT <input type="checkbox"/> POST-PWHT		COMPONENT TEMP 80°F	
CODE / WELD CLASS ASME XI CL I		COMPONENT CONFIGURATION HOT LEG / EL TO SAFE-END			MATL TYPE <input type="checkbox"/> C/S <input checked="checked" type="checkbox"/> S/S <input type="checkbox"/> DISSIM METAL		PROCEDURE & REVISION PT (SR)-ASME III / XI REV. 2
		CLEANER/REMOVER		PENETRANT		DEVELOPER	
MFR		MAGNAFLUX		MAGNAFLUX		MAGNAFLUX	
TYPE		SKC-S		SKL-SP		SKD-S2	
BATCH #		99M01K		98J11K		99G09K	
INDICATION CODE: NI=NO INDICATIONS NRI=NO RECORDABLE INDICATIONS C=CRACK ROUND=ROUNDED INDICATION LINEAR=LINEAR INDICATION							
PART OR WELD #		ACC (✓)	REJ (✓)	IND CODE	REMARKS		
FW1-SG		✓		NRI	None		
ALAI-4100-4R							
SKETCH / COMMENTS							
AREA OF EXAMINATION PERFORMED IN ACCORDANCE WITH ATTACHED SNC DRAWING. AREA EXAMINED INCLUDED FW1-SG AND 3.0" INTO ELBOW FROM NOZZLE SIDE OF EXAMINATION AREA.							
M&TE NO. <u>198060</u>							
CAL. DUE DATE: <u>07-26-00</u>							
EXAMINER <i>Russell Yancy</i> (Russell Yancy)				LEVEL II		DATE 04-16-00	
REVIEW <i>Cee Hagg</i>				LEVEL III		DATE 4-17-00	

S. G. Hoffner suc Level III 4-20-00
 next review: *by whom* 4/22/00
cgw
4/22/00

Steam
Generator



PT Examination of 3" Width will cover all LEGS.

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4100-4R** Date **4/17/00** Sheet No. **S00F1U244** Page **1** of **3**
 Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA/APR-33	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	D20267/D20268	Thickness	2.45"	1/4	30	1.5	.62	NA	NA	NA	NA
Ax. dB	58	Circ. dB	NA	Cal. Temp.	80	1/2	80	3.0	1.2	NA	NA	NA	NA
Ref.	58	Size	N/A	Cal. In	0814	3/4	45	4.5	1.85	NA	NA	NA	NA
Scan	64	Frequency/Mode	N/A / L	Cal. Chk.	N/A	ID	25	6.1	2.5	NA	NA	NA	NA
Reject	OFF	"A" Dimension	.82"	Cal. Out	1050	Calibration Remarks: NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC.							
Frequency	1.0 MHZ	Nominal Angle	45	Ref. Blk. No.	NA								
Mode	DUAL	Measured Angle	45	Reflector	NA								
Damping	500 Ohms	Cable Type	RG 174	Amplitude/Sweep	NA								
		Cable Length	15"										

Comp. Temp.: **75** °F Configuration: **ELBOW TO SAFE-END** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position		Thickness		Notes:	
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--		C/L
5				NA													

Examination/Limitation Remarks:

EXAMINED FROM ELBOW SIDE.

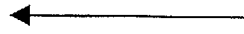
** Combined Code Coverage from all scans had 42000*

Total Length of Weld	Crown Width	Total Length of Weld Examined		Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NL	2 (L) NA	7 & 8 (W) NA	5 - from NL to .9	2 - from NA to NA	From (5) NA to (2) NA				
Primary Examiner	Level	Assistant Examiner		Level	Non-Technical Review		Date				
JOHN W. BELL <i>John W. Bell</i>	II	GEORGE A. MORINI <i>George A. Morini</i>		II	Terry Styger <i>Terry Styger</i>		4-19-00				
SNC NDE Level II/III Review	Date	Percentage of Code Coverage		ANII Review		Date					
<i>Harry D. Lippert</i>	III 4-20-00	73.8 %		<i>19 Wood</i>		4/22/00					

Figure 1

Revision 7

FLOW



C_L

53°

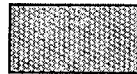
45°

SAFE-END

ELBOW

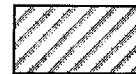
← OLD WELD

EXAMINATION VOLUME



100% CODE
COVERAGE

TYPICAL
NTS



50% CODE
COVERAGE

AX CODE COVERAGE PLOT
AX. CODE COVERAGE OBTAINED = 83.2%
CIRC CODE COVERAGE OBTAINED = 64.5%
TOTAL CODE COVERAGE OBTAINED = 73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT

FLOW

CL

45° 18°
SKEW

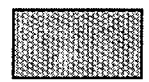
45°

SAFE-END

ELBOW

← OLD WELD

EXAMINATION VOLUME



100% CODE
COVERAGE

TYPICAL
NTS



NO CODE
COVERAGE

CIRC CODE COVERAGE PLOT
CIRC CODE COVERAGE OBTAINED =64.5%
AX. CODE COVERAGE OBTAINED =83.2%
TOTAL CODE COVERAGE OBTAINED =73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit: 1 Sketch/Component No.: ALA1-4100-4R Date: 4/17/00 Sheet No.: S00F1U236 Page 1 of 1

Procedure/Rev./TCN: FNP-0-NDE-100.41 / 2 / 2A Couplant/Batch No.: Ultragel II / 00125 Thermometer SN/Cal Due Date: 38193 / 8/27/2000 Linearity Sheet No.: S00F1L001

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	G14510 / G14511	Thickness	3.5"								
	Ax. dB	Circ. dB	Size	Cal. Temp.	71	NA	NA	NA	NA	1/4	40	1.5	.75
Ref.	NA	71.2	Frequency/Mode	1.0 / L	Cal. In	0705	NA	NA	NA	1/2	80	3.0	1.8
Scan	NA	77.2	"A" Dimension	.82"	Cal. Chk.	N/A	NA	NA	NA	3/4	65	4.5	2.9
Reject	OFF		Nominal Angle	45	Cal. Out	1135	NA	NA	NA	ID	25	6.2	3.9
Frequency	1.0 MHZ		Measured Angle	45	Ref. Blk. No.	N/A	Calibration Remarks:						
Mode	DUAL		Cable Type	RG 174	Reflector	N/A	2.6 dB ADDED TO RAISE ID NOTCH TO DAC, (68.6 + 2.6 = 71.2). 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.						
Damping	500 Ohms		Cable Length	15"	Amplitude/Sweep	N/A							

Comp. Temp.: 75 °F Configuration: ELBOW TO SAFE-END Wo Location V-STAMP Lo Location TDC

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	--> 1"	
7	●			NA	NA													

Examination/Limitation Remarks:

EXAMINED FROM SAFE-END SIDE.

**Combined Code Coverage from all scans* *Cal 4:20:00*

Total Length of Weld	Crown Width	Total Length of Weld Examined		Extent of Perpendicular Scans (W)		Extent of Parallel Scans (L)	
106.5	2.2	5 (L) NA	2 (L)	7 & 8 (W) NL	5 - from NA to NA	2 - from NA to NA	From (5) -1.85 to (2) NL
Primary Examiner	Level	Assistant Examiner	Level	Non-Technical Review		Date	
JOHN W. BELL <i>John W Bell</i>	II	GEORGE A. MORINI <i>George A Morini</i>	II	<i>Terry Styer</i>		4-19-00	
SNC NDE Level III/III Review	Date	Percentage of Code Coverage	ANII Review		Date		
<i>Danny D. Bell</i>	4-20-00	* 73.8 %	<i>cgward</i>		4/22/00		

Figure 1

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA1-4100-4R	Date 4/17/00	Sheet No. S00F1U239	Page of 1 1
Procedure/Rev./TCN FNP-0-NDE-100.41 / 2 / 2A		Couplant/Batch No. Ultragel II / 00125		Thermometer SN/Cal Due Date 38193 / 8/27/2000
		Linearity Sheet No. S00F1L001		

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	H12393/H12394	Thickness	3.5"	NA	NA	NA	NA	1/4	40	1.5	.75
Ax. dB		Size	2 (1.0")	Cal. Temp.	71	NA	NA	NA	NA	1/2	80	3.0	1.8
Ref.	NA	Frequency/Mode	1.0 / L	Cal. In	0715	NA	NA	NA	NA	3/4	65	4.5	2.9
Scan	NA	"A" Dimension	.82"	Cal. Chk.	N/A	NA	NA	NA	NA	ID	20	6.2	3.9
Reject	OFF	Nominal Angle	45	Cal. Out	1125	NA	NA	NA	NA	Calibration Remarks: NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC. 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.			
Frequency	1.0 MHZ	Measured Angle	45	Ref. Blk. No.	NA								
Mode	DUAL	Cable Type	RG 174	Reflector	NA								
Damping	500 Ohms	Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: 75 °F Configuration: ELBOW TO SAFE-END Wo Location V-STAMP Lo Location TDC

Scan Dir.	Results	Ind. No.	% DAC	Length	Reference Measurement	Sweep Position	Thickness	Notes:
	NI NRI RI			L1 Lmax L2	W1 Wmax W2	S1 Smax S2	1"<-- C/L -->1"	
8	●	NA						

Examination/Limitation Remarks:

EXAMINED FROM SAFE-END SIDE.

** Combined Code Coverage from all scans Hal 4-20-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2"	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA to NA	2 - from NA to NA	From (5) -1.85 to (2) NL						
Primary Examiner JOHN W. BELL <i>John W Bell</i>		Level II	Assistant Examiner GEORGE A. MORINI <i>George A. Morini</i>				Level II	Non-Technical Review Terry Stygen <i>Terry Stygen</i>				Date 4-19-00	
SNC NDE Level II/III Review <i>Harry D. Stokes</i>		Date 4-20-00	Percentage of Code Coverage * 73.8 %				ANII Review <i>CG Wood</i>				Date 4/22/00		

Figure 1

Revision 7

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41

Southern Nuclear Operating Company

Unit Sketch/Component No.

Date

Sheet No.

1

ALA1-4100-4R

4/17/00

S00F1U242

Page 1 of 2

Procedure/Rev./TCN

Couplant/Batch No.

Thermometer SN/Cal Due Date

Linearity Sheet No.

FNP-0-NDE-100.41 / 2 / 2A

Ultragel II / 00125

38193 / 8/27/2000

S00F1L001

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	008NXT/008NXW	Thickness	3.5"	1/4	80	1.5	1.2	NA	NA	NA	NA
Ax. dB		Size	2 (1.0")	Cal. Temp.	71	1/2	70	3.0	1.95	NA	NA	NA	NA
Ref.	66	Frequency/Mode	1.0 / L	Cal. In	0730	3/4	40	4.5	2.95	NA	NA	NA	NA
Scan	72	"A" Dimension	.82"	Cal. Chk.	N/A	ID	15	6.0	4.2	NA	NA	NA	NA
Reject	OFF	Nominal Angle	53	Cal. Out	1115	Calibration Remarks:							
Frequency	1.0 MHZ	Measured Angle	53	Ref. Blk. No.	NA	NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.							
Mode	DUAL	Cable Type	RG 174	Reflector	NA								
Damping	500 Ohms	Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: 75 °F

Configuration: ELBOW TO SAFE-END

Wo Location V-STAMP

Lo Location TDC

Scan Dir.	Results NI NRI RI	Ind. No.	% DAC	L1	Length Lmax	L2	Reference Measurement W1 Wmax W2	Sweep Position S1 Smax S2	Thickness 1" <-- C/L --> 1"	Notes:
2	●	NA	NA							

Examination/Limitation Remarks:

EXAMINED FROM SAFE-END SIDE.

** Combined Code Coverage from all scans Bal 420-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined		Extent of Perpendicular Scans (W)		Extent of Parallel Scans (L)	
106.5	2.2	5 (L) NA	2 (L) NL	7 & 8 (W) NA	5 - from NA to NA	2 - from NL to .9	From (5) NA to (2) NA
Primary Examiner	Level	Assistant Examiner	Level	Non-Technical Review	Date		
JOHN W. BELL <i>John W Bell</i>	II	GEORGE A. MORINI <i>George A Morini</i>	II	Terry Styen <i>Terry Styen</i>	4-19-00		
SNC NDE Level II/III Review	Date	Percentage of Code Coverage		ANII Review	Date		
<i>Harry D. Hoffman</i>	4-20-00	*73.8 %		<i>EG Wood</i>	4/22/00		

Figure 1

Revision 7

April 19, 2000
ASME Code Coverage for Steam Generator Hot Leg /Cold Leg

The following list is the numeric values assigned based on the OD profile and contour taken from A Loop. One dimension is provided which includes the new narrow groove weld and a portion of the old existing weld. The drawing to be used has a thickness of 3.3". The inner 1/3t dimension to be used will be 1.1". The width is based on the toe of the ID weld from the safe end side to the toe of the old existing OD weld, which measures 2.1".

AXIAL SCANS

Code requires .25" on each side of the above described weld toes.

Code coverage = 2.6" (width) x 1.1" (height) = 2.86 sq. "

Scan from elbow side: no limitations, 2.86sq " / 2.86 sq. " = 100%

Scan from safe end side: limited due to taper / apex, two areas,

Box 1.35" x 1.1" = 1.485 sq. "

Triangle $\frac{1}{2} \times b \times h = .5 \times .75 \times 1.1 = .413$ sq. "

Total = 1.898 sq. " / 2.86 sq. " = 66.3%

CIRC. SCANS

Code requires .5" on each side of the above described weld toes.

Code coverage = 3.1" (width) x 1.1" (height) = 3.41 sq. "

Scan from safe end CW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

Scan from safe end CCW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CCW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

Total ASME Code Coverage for the Weld is 73.8%. This is based on adding all four required scans, $100\% + 66.3\% + 64.5\% + 64.5\% = 295.3\%$
 $295.3/4 = 73.8\%$

NOTE: The coverage for the CW / CCW scans was not based on the centerline of the two transducers, but the centerline of one of the dual elements. ASME Section XI, Appendix III-2410(a) requires a 50% overlap between scans. Smaller transducers were tried to obtain maximum code coverage. Due to the metallurgical grain structure of the materials, a dual, 1.0 MHz, 1" diameter, transducer with curved shoes was used. On the safe end, wedges with an 18-degree tilt were used for the CW/CCW scans. The maximum area that could be scanned was examined. Supplement 4, (a) (1) of ASME Section XI requires a 35-degree or greater for the beam angle at the ID surface when using refracted Longitudinal waves. Only one direction coverage of the axial scan on the elbow side was obtained. RL waves are used with a 4/8-node calibration. Shear waves to provide a 6/8 vee-path is not practical for the cast stainless steel examination on the elbow. Thus we were limited to 66.3% from this direction.

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4100-4R** Date **4/17/00** Sheet No. **S00F1U240** Page **1** of **1**

Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	N/A	Cal. Blk. No.	ALA/APR-33	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	008NXR/008NXV	Thickness	2.45"								
Ax. dB		Circ. dB		Cal. Temp.	81	NA	NA	NA	NA	1/4	30	1.5	.65
Ref.	NA	71.2	Size	2 (1.0")	Cal. In	NA	NA	NA	NA	1/2	80	3.0	1.3
Scan	NA	77.2	Frequency/Mode	1.0 / L	Cal. Chk.	NA	NA	NA	NA	3/4	50	4.5	1.9
Reject	OFF		"A" Dimension	.82"	Cal. Out	1055	NA	NA	NA	ID	35	5.8	2.65
Frequency	1.0 MHZ		Nominal Angle	45	Cal. Blk. No.	NA	Calibration Remarks: NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.						
Mode	DUAL		Measured Angle	46	Reflector	NA							
Damping	500 Ohms		Cable Type	RG 174	Amplitude/Sweep	NA							
			Cable Length	15"									

Comp. Temp.: **75** °F Configuration: **ELBOW TO SAFE-END** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	-- >1"	
7	●			NA	NA													
8	●			NA	NA													

Examination/Limitation Remarks:
EXAMINED FROM ELBOW SIDE. *NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.

**** Combined Code Coverage from all scans total 4-20-00**

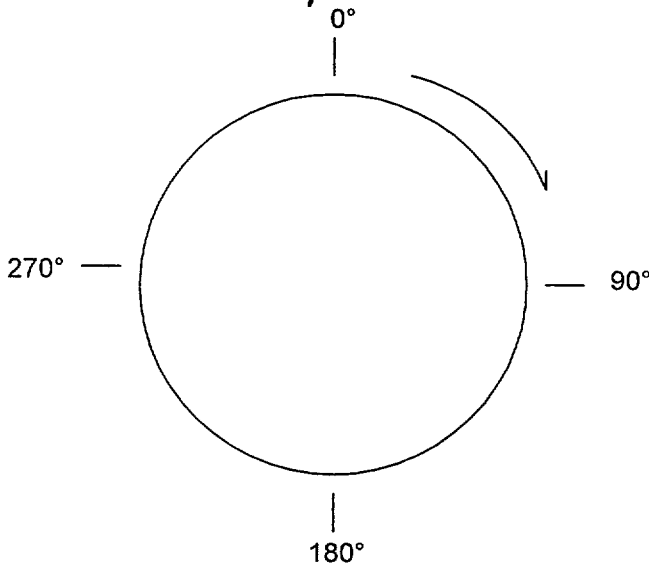
Total Length of Weld	Crown Width	Total Length of Weld Examined		Extent of Perpendicular Scans (W)		Extent of Parallel Scans (L)	
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA to NA	2 - from NA to NA	From (5) NL to (2) -1.3
Primary Examiner	Level	Assistant Examiner	Level	Non-Technical Review		Date	
JOHN W. BELL <i>John W Bell</i>	II	GEORGE A. MORINI <i>[Signature]</i>	II	<i>Terry Styer</i>		4-19-00	
SNC NDE Level II/III Review	Date	Percentage of Code Coverage	ANII Review		Date		
<i>[Signature]</i>	4-20-00	** 73.8 %	<i>[Signature]</i>		4/22/00		

Figure 1

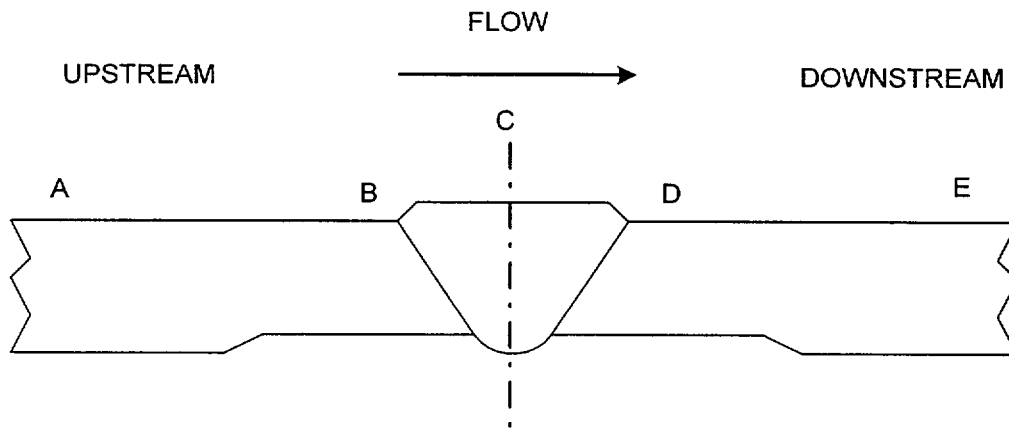
Ultrasonic Thickness and Contour Examination Record

Southern Nuclear Operating Company

Unit 1	Weld Number ALA1-4100-4R	Sheet No. S00F1U247	Date 4/17/2000
IO/Drawing Number ALA1-4100	Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer STAVELEY	
Material Type <input type="checkbox"/> C/S <input type="checkbox"/> S/S Other	Calibration Standard/ Serial No. SS IIW / 86-4245	Model Number SONIC 136	Serial Number 136-896K
Examiner JOHN W. BELL <i>John W Bell</i>	SNT Level II	Transducer Manufacturer KBA	Type NA 0° Size .75
Examiner GEORGE A. MORINI <i>George A. Morini</i>	SNT Level II	Serial Number B25613	Frequency 1.0 MHz



Location	0°	90°	180°	270°
A	3.1	3.1	3.1	3.1
B	3.4	3.4	3.3	3.3
C	3.25	3.2	3.3	3.3
D	3.3	3.25	3.3	3.3
E	3.9	3.85	3.85	3.7



COUNTERBORE

NA

NA

UPSTREAM

DOWNSTREAM

REMARKS:

JE Level II/III Review

George A. Morini

Level

III

Date

4/20/00

Non-Technical Review

Terry Stygen

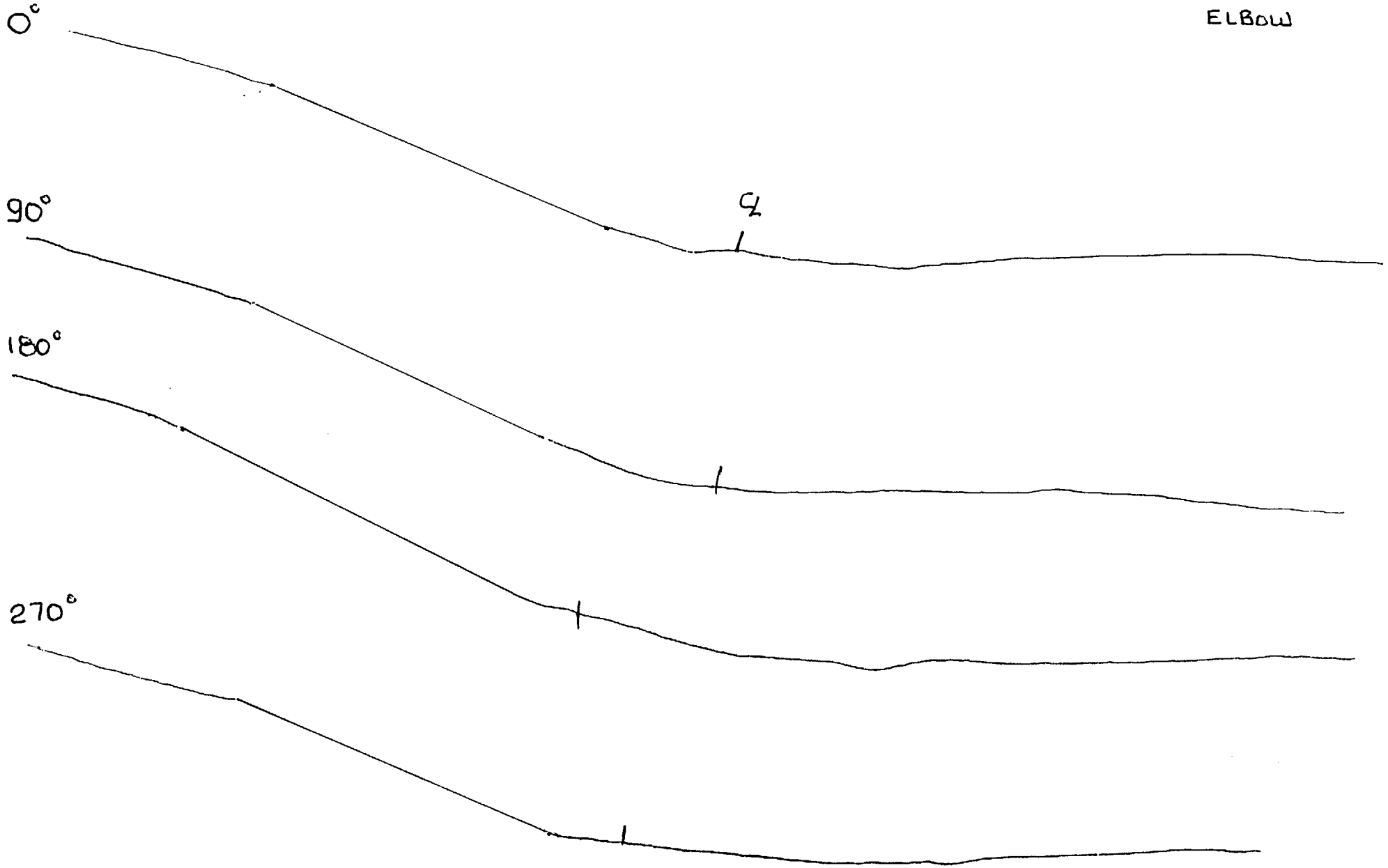
Date

4-19-00

SAFE END

A HOT LEG
SHEET NO. S00FIU247

ELBOW

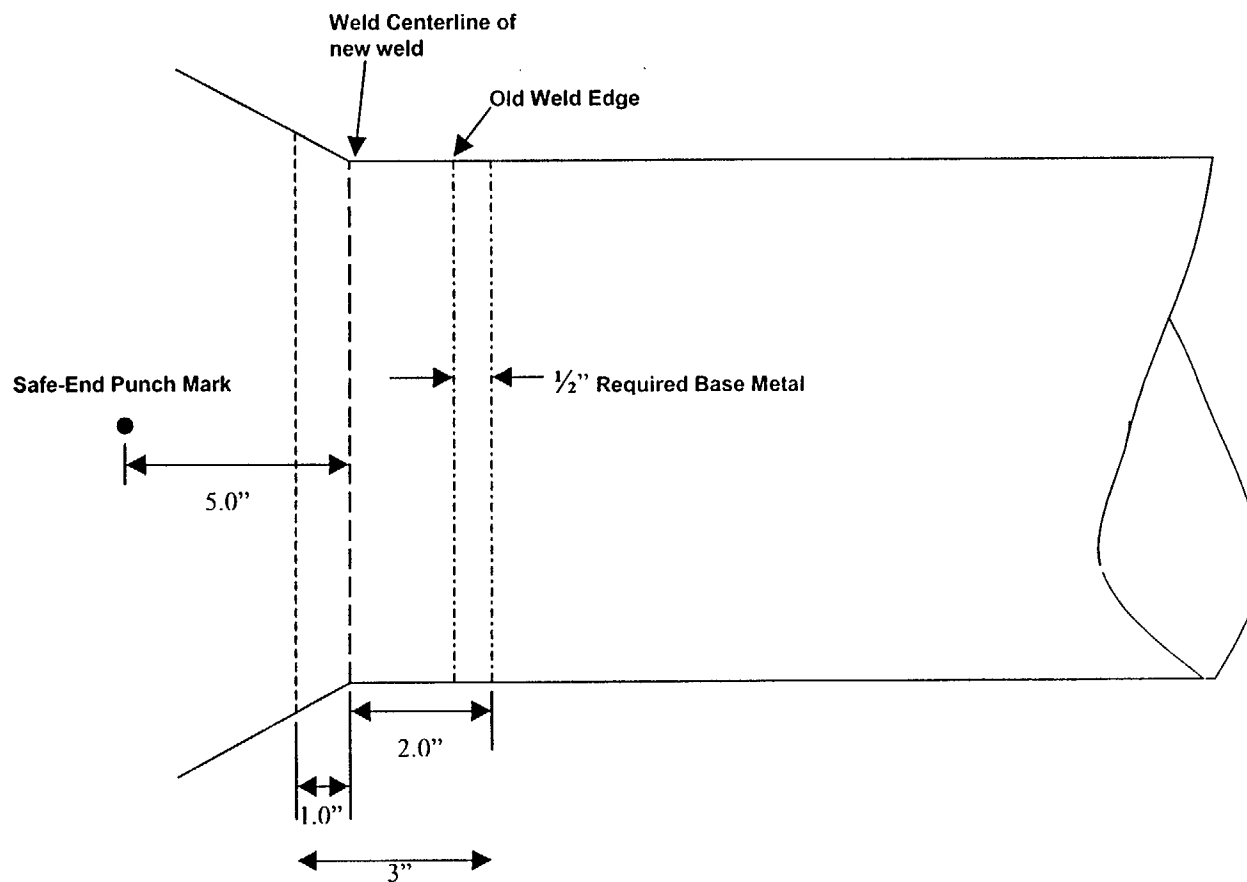




WPIR # P-RCA-030		NONDESTRUCTIVE EXAMINATION REPORT LIQUID PENETRANT EXAMINATION				REPORT # PT-00-141
JOB # 23734	JOB NAME FARLEY UNIT 1 SGR		SURFACE CONDITION <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AS WELDED		DATE 4-16-00	
ISO / DWG # FSK-M-144	ITEM / COMP ID FW2-SG	TIME OF EXAM <input checked="" type="checkbox"/> N/A <input type="checkbox"/> PRE-PWHT <input type="checkbox"/> POST-PWHT		COMPONENT TEMP 80°F		
CODE / WELD CLASS ASME XI CL I	COMPONENT CONFIGURATION COLD LEG / SAFE-END TO EL		MATL TYPE <input type="checkbox"/> C/S <input checked="" type="checkbox"/> S/S <input type="checkbox"/> DISSIM METAL	PROCEDURE & REVISION PT (SR)-ASME III / XI REV. 2		
	CLEANER/REMOVER	PENETRANT		DEVELOPER		
MFR	MAGNAFLUX	MAGNAFLUX		MAGNAFLUX		
TYPE	SKC-S	SKL-SP		SKD-S2		
BATCH #	99M01K	98J11K		99G09K		
INDICATION CODE:	NI=NO INDICATIONS NRI=NO RECORDABLE INDICATIONS		C=CRACK			
	ROUND=ROUNDED INDICATION LINEAR=LINEAR INDICATION					
PART OR WELD #	ACC (✓)	REJ (✓)	IND CODE	REMARKS		
FW2-SG	✓		NRI	None		
ALAL-4100-SR						
SKETCH / COMMENTS						
AREA OF EXAMINATION PERFORMED IN ACCORDANCE WITH ATTACHED SNC DRAWING. AREA EXAMINED INCLUDED FW2-SG AND 3.0" INTO ELBOW FROM NOZZLE SIDE OF EXAMINATION AREA.						
M&TE NO. <u>198060</u>						
CAL. DUE DATE: <u>07-26-00</u>						
EXAMINER Russell Yancy (Russell Yancy)			LEVEL II	DATE 04-16-00		
REVIEW Edward			LEVEL III	DATE 4-17-00		

Edward
 SNC Level III 4-20-00
 and review: Edward 4/22/00

Steam Generator



PT Examination of 3" Width will cover all LEGS.

**FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record**

**FNP-0-NDE-100.41
Southern Nuclear Operating Company**

Unit 1	Sketch/Component No. ALA1-4100-5R	Date 4/17/00	Sheet No. S00F1U245	Page 1 of 3
Procedure/Rev./TCN FNP-0-NDE-100.41 / 2 / 2A		Couplant/Batch No. Ultragel II / 00125		Thermometer SN/Cal Due Date 38193 / 8/27/2000
		Linearity Sheet No. S00F1L001		

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA/APR-33	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	D20267/D20268	Thickness	2.45"	1/4	30	1.5	.62	NA	NA	NA	NA
Ax. dB	58	Circ. dB	NA	Cal. Temp.	80	1/2	80	3.0	1.2	NA	NA	NA	NA
Ref.	58	Size	2 (1.0")	Cal. In	0814	3/4	45	4.5	1.85	NA	NA	NA	NA
Scan	64	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	ID	25	6.1	2.5	NA	NA	NA	NA
Reject	OFF	"A" Dimension	.82"	Cal. Out	1050	Calibration Remarks: NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC.							
Frequency	1.0 MHZ	Nominal Angle	45	Ref. Blk. No.	NA								
Mode	DUAL	Measured Angle	45	Reflector	NA								
Damping	500 Ohms	Cable Type	RG 174	Amplitude/Sweep	NA								
		Cable Length	15"										

Comp. Temp.: **75** °F Configuration: **SAFE-END TO ELBOW** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results	Ind. No.	% DAC	Length L1	Length L2	Reference Measurement W1	Reference Measurement W2	Sweep Position S1	Sweep Position S2	Thickness C/L	Notes
2	●	NA									

Examination/Limitation Remarks:

EXAMINED FROM ELBOW SIDE.

**Combined Code Coverage from all scans Dal 420-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NA	2 (L) NL	7 & 8 (W) NA	5 - from NA to NA	2 - from NL to .9	From (5) NA to (2) NA						

Primary Examiner JOHN W. BELL <i>John W. Bell</i>	Level II	Assistant Examiner GEORGE A. MORINI <i>George A. Morini</i>	Level II	Non-Technical Review <i>Terry Styer</i>	Date 4-19-00
SNC NDE Level II/III Review <i>Harold R. Rife</i>	Date 4-20-00	Percentage of Code Coverage 73.8 %	ANII Review <i>[Signature]</i>	Date 4/22/00	

Figure 1

Revision 7

FLOW →

53°

C_L

45°

SAFE-END

ELBOW

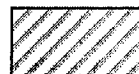
← OLD WELD

EXAMINATION VOLUME



100% CODE
COVERAGE

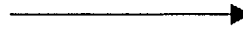
TYPICAL
NTS



50% CODE
COVERAGE

AX CODE COVERAGE PLOT
AX. CODE COVERAGE OBTAINED =83.2%
CIRC CODE COVERAGE OBTAINED =64.5%
TOTAL CODE COVERAGE OBTAINED =73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT

FLOW



45° 18°
SKEW

C_L

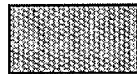
45°

SAFE-END

ELBOW

← OLD WELD

EXAMINATION VOLUME



100% CODE
COVERAGE

TYPICAL
NTS



NO CODE
COVERAGE

CIRC CODE COVERAGE PLOT
CIRC CODE COVERAGE OBTAINED =64.5%
AX. CODE COVERAGE OBTAINED =83.2%
TOTAL CODE COVERAGE OBTAINED =73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4100-5R** Date **4/17/00** Sheet No. **S00F1U238** Page **1** of **1**

Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	H12393/H12394	Thickness	3.5"	NA	NA	NA	NA	1/4	40	1.5	.75
Ax. dB		Circ. dB		Cal. Temp.	71	NA	NA	NA	NA	1/2	80	3.0	1.8
Ref.	NA	Size	2 (1.0")	Cal. In	0715	NA	NA	NA	NA	3/4	65	4.5	2.9
Scan	NA	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	NA	NA	NA	NA	ID	20	6.2	3.9
Reject	OFF	"A" Dimension	.82"	Cal. Out	1125	Calibration Remarks:							
Frequency	1.0 MHZ	Nominal Angle	45	Cal. Out	1125	NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC. 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.							
Mode	DUAL	Measured Angle	45	Ref. Blk. No.	NA								
Damping	500 Ohms	Cable Type	RG 174	Reflector	NA								
		Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: **75** °F Configuration: **SAFE-END TO ELBOW** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results	Ind. No.	% DAC	Length	Reference Measurement	Sweep Position	Thickness	Notes:
	NI NRI RI			L1 Lmax L2	W1 Wmax W2	S1 Smax S2	1"<-- C/L -->1"	
7	●	NA	NA					

Examination/Limitation Remarks:

EXAMINED FROM SAFE-END SIDE.

** Combined Code Coverage from all scans del 42000*

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA	to NA	2 - from NA	to NA	From (5) NL	to (2) -1.85			
Primary Examiner	Level		Assistant Examiner		Level		Non-Technical Review		Date				
JOHN W. BELL <i>John W Bell</i>	II		GEORGE A. MORINI <i>George A. Morini</i>		II		<i>Terry Steyer</i>		4-19-00				
SNC NDE Level II/III Review	Date		Percentage of Code Coverage		ANII Review		Date						
<i>Samuel J. Jettles</i>	III 42000		* 73.8 %		<i>CGuard</i>		4/22/00						

Figure 1

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA1-4100-5R	Date 4/17/00	Sheet No. S00F1U237	Page 1 of 1
Procedure/Rev./TCN FNP-0-NDE-100.41 / 2 / 2A	Couplant/Batch No. Ultragel II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000	Linearity Sheet No. S00F1L001	

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	G14510 / G14511	Thickness	3.5"	NA	NA	NA	NA	1/4	40	1.5	.75
Ax. dB		Circ. dB		Cal. Temp.	71	NA	NA	NA	NA	1/2	80	3.0	1.8
Ref.	NA	Size	2 (1.0")	Cal. In	0705	NA	NA	NA	NA	3/4	65	4.5	2.9
Scan	NA	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	NA	NA	NA	NA	ID	25	6.2	3.9
Reject	OFF	"A" Dimension	.82"	Cal. Out	11:35	Calibration Remarks: 2.6 dB ADDED TO RAISE ID NOTCH TO DAC, (68.6 + 2.6 = 71.2). 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.							
Frequency	1.0 MHZ	Nominal Angle	45	Ref. Blk. No.	NA								
Mode	DUAL	Measured Angle	45	Reflector	NA								
Damping	500 Ohms	Cable Type	RG 174	Amplitude/Sweep	NA								
		Cable Length	15"										

Comp. Temp.: 75 °F	Configuration: SAFE-END TO ELBOW	Wo Location V-STAMP	Lo Location TDC					
Scan Dir.	Results NI NRI RI	Ind. No.	% DAC	Length L1 Lmax L2	Reference Measurement W1 Wmax W2	Sweep Position S1 Smax S2	Thickness 1"<-- C/L -->1"	Notes:
8	●		N/A					

Examination/Limitation Remarks:
EXAMINED FROM SAFE-END SIDE.

** Combined code coverage from all scans Jul 420-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA	to NA	2 - from NA	to NA	From (5) NL	to (2) -1.85			
Primary Examiner JOHN W. BELL <i>John W Bell</i>	Level II	Assistant Examiner GEORGE A. MORINI <i>George A Morini</i>	Level II	Non-Technical Review <i>Terry Styer</i>	Date 4-19-00	SNC NDE Level II/III Review <i>Donald L. Lyles</i>			Date 4/20/00	Percentage of Code Coverage 73.8 %	ANII Review <i>C. G. ...</i>	Date 4/22/00	

Figure 1

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4100-5R** Date **4/17/00** Sheet No. **S00F1U243** Page **1** of **2**

Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	008NXT/008NXW	Thickness	3.5"	1/4	80	1.5	1.2	NA	NA	NA	NA
Ax. dB		Circ. dB		Cal. Temp.	71	1/2	70	3.0	1.95	NA	NA	NA	NA
Ref.	66	Size	2 (1.0")	Cal. In	0730	3/4	40	4.5	2.95	NA	NA	NA	NA
Scan	72	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	ID	15	6.0	4.2	NA	NA	NA	NA
Reject	OFF	"A" Dimension	.82"	Cal. Out	1115	Calibration Remarks:							
Frequency	1.0 MHZ	Nominal Angle	53	Cal. Out	1115	NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.							
Mode	DUAL	Measured Angle	53	Ref. Blk. No.	NA								
Damping	500 Ohms	Cable Type	RG 174	Reflector	NA								
		Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: **75** °F Configuration: **SAFE-END TO ELBOW** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	
5				N/A												

Examination/Limitation Remarks:

EXAMINED FROM SAFE-END SIDE.

**Combined Code Coverage from all scans Jul 4-20-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)										
106.5	2.2	5 (L)	NL	2 (L)	NA	7 & 8 (W)	NA	5 - from	NL	to	.9	2 - from	NA	to	NA	From (5)	NA	to	(2)	NA
Primary Examiner	Level		Assistant Examiner	Level		Non-Technical Review		Date												
JOHN W. BELL <i>John W Bell</i>	II		GEORGE A. MORINI <i>George A Morini</i>	II		<i>Terry Edge</i>		4-19-00												
SNC NDE Level II/III Review	Date	Percentage of Code Coverage		ANII Review		Date														
<i>Samuel D. Roberts</i>	4/20/00	73.8 %		<i>Terry Edge</i>		4/20/00														

Figure 1

April 19, 2000

ASME Code Coverage for Steam Generator Hot Leg /Cold Leg

The following list is the numeric values assigned based on the OD profile and contour taken from A Loop. One dimension is provided which includes the new narrow groove weld and a portion of the old existing weld. The drawing to be used has a thickness of 3.3". The inner 1/3t dimension to be used will be 1.1". The width is based on the toe of the ID weld from the safe end side to the toe of the old existing OD weld, which measures 2.1".

AXIAL SCANS

Code requires .25" on each side of the above described weld toes.

Code coverage = 2.6" (width) x 1.1" (height) = 2.86 sq. "

Scan from elbow side: no limitations, 2.86sq " / 2.86 sq. " = 100%

Scan from safe end side: limited due to taper / apex, two areas,

Box 1.35" x 1.1" = 1.485 sq. "

Triangle $\frac{1}{2} \times b \times h = .5 \times .75" \times 1.1" = .413 \text{ sq. "}$

Total = 1.898 sq. " / 2.86 sq. " = 66.3%

CIRC. SCANS

Code requires .5" on each side of the above described weld toes.

Code coverage = 3.1" (width) x 1.1" (height) = 3.41 sq. "

Scan from safe end CW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

Scan from safe end CCW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CCW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

Total ASME Code Coverage for the Weld is 73.8%. This is based on adding all four required scans, 100% + 66.3% + 64.5% + 64.5% = 295.3%

295.3/4 = 73.8%

NOTE: The coverage for the CW / CCW scans was not based on the centerline of the two transducers, but the centerline of one of the dual elements. ASME Section XI, Appendix III-2410(a) requires a 50% overlap between scans. Smaller transducers were tried to obtain maximum code coverage. Due to the metallurgical grain structure of the materials, a dual, 1.0 MHz, 1" diameter, transducer with curved shoes was used. On the safe end, wedges with an 18-degree tilt were used for the CW/CCW scans. The maximum area that could be scanned was examined. Supplement 4, (a) (1) of ASME Section XI requires a 35-degree or greater for the beam angle at the ID surface when using refracted Longitudinal waves. Only one direction coverage of the axial scan on the elbow side was obtained. RL waves are used with a 4/8-node calibration. Shear waves to provide a 6/8 vee-path is not practical for the cast stainless steel examination on the elbow. Thus we were limited to 66.3% from this direction.

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4100-5R** Date **4/17/00** Sheet No. **S00F1U241** Page **1** of **1**

Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA/APR-33	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	008NXR/008NXV	Thickness	2.45"	NA	NA	NA	NA	1/4	30	1.5	.65
Ax. dB		Circ. dB		Cal. Temp.	80	NA	NA	NA	NA	1/2	80	3.0	1.3
Ref.	NA	Size	2 (1.0")	Cal. In	0820	NA	NA	NA	NA	3/4	50	4.5	1.9
Scan	NA	Frequency/Mode	N/A / L	Cal. Chk.	N/A	NA	NA	NA	NA	ID	35	5.8	2.65
Reject	OFF	"A" Dimension	.82"	Cal. Out	1055	Calibration Remarks: NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.							
Frequency	1.0 MHZ	Nominal Angle	45	Cal. In	0820								
Mode	DUAL	Measured Angle	46	Ref. Blk. No.	NA								
Damping	500 Ohms	Cable Type	RG 174	Reflector	NA								
		Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: **75** °F Configuration: **SAFE-END TO ELBOW** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position		Thickness		Notes:
	NI	NRI	RI			L1	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	
7	●			NA											
8	●			NA											

Examination/Limitation Remarks:

EXAMINED FROM ELBOW SIDE.

**Combined Code Coverage from all scans Nel 4-20-00*

Total Length of Weld: **106.5** Crown Width: **2.2** Total Length of Weld Examined: **5 (L) NA 2 (L) NA 7 & 8 (W) NA** Extent of Perpendicular Scans (W): **5 - from NA to NA** Extent of Parallel Scans (L): **2 - from NA to NA** From (5) **-1.3** to (2) **NL**

Primary Examiner JOHN W. BELL <i>John W Bell</i>	Level II	Assistant Examiner GEORGE A. MORINI <i>George A Morini</i>	Level II	Non-Technical Review <i>Terry Styer</i>	Date 4-19-00
SNC NDE Level II/III Review <i>Harold Ditcher</i>	Date III 4-20-00	Percentage of Code Coverage 73.8 %		ANII Review <i>Chandler</i>	Date 4/20/00

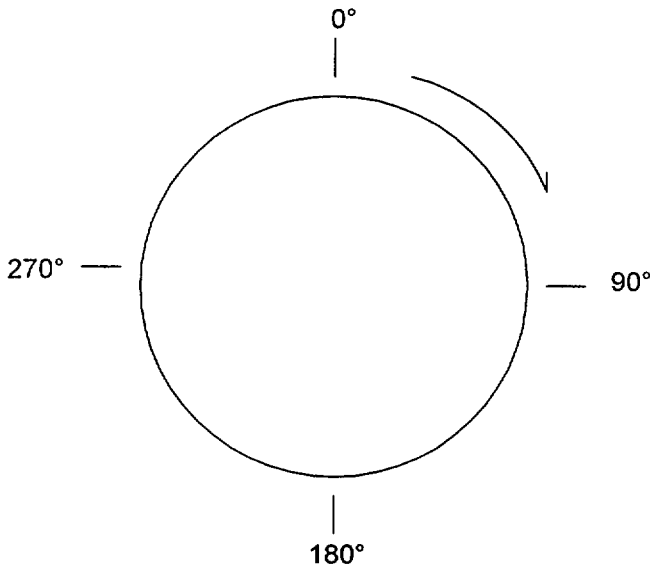
Figure 1

Revision 7

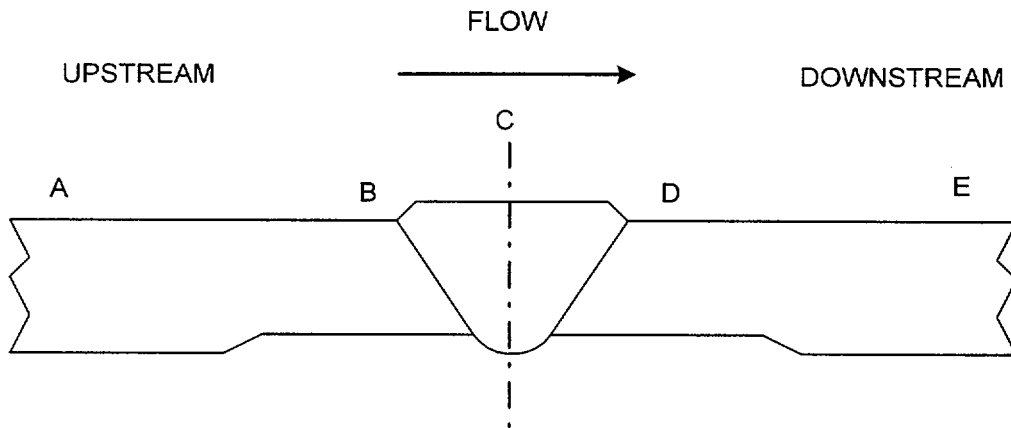
Ultrasonic Thickness and Contour Examination Record

Southern Nuclear Operating Company

Unit 1	Weld Number ALA1-4100-5R	Sheet No. S00F1U248	Date 4/17/2000
O/Drawing Number ALA1-4100	Couplant/Batch Number <i>N/A</i> 4-20-00 <i>ultragel II</i> 00125	Instrument Manufacturer STAVELEY	
Material Type <input type="checkbox"/> C/S <input checked="" type="checkbox"/> S/S Other	Calibration Standard/ Serial No. SS IIV / 86-4245	Model Number SONIC 136	Serial Number 136-896K
Examiner JOHN W. BELL <i>John W Bell</i>	SNT Level II	Transducer Manufacturer KBA	Type 0 Size .75
Examiner GEORGE A. MORINI <i>George A Morini</i>	SNT Level II	Serial Number B25613	Frequency 1.0 MHz



Location	0°	90°	180°	270°
A	4.0	4.1	4.1	4.0
B	3.25	3.25	3.35	3.4
C	3.1	3.1	3.1	3.05
D	3.25	3.2	3.1	3.2
E	3.3	3.4	3.2	3.3



COUNTERBORE

NA

NA

UPSTREAM

DOWNSTREAM

REMARKS:

JE Level II/III Review

Samuel Defiles

Level

III

Date

4-20-00

Non-Technical Review

Terry Styer

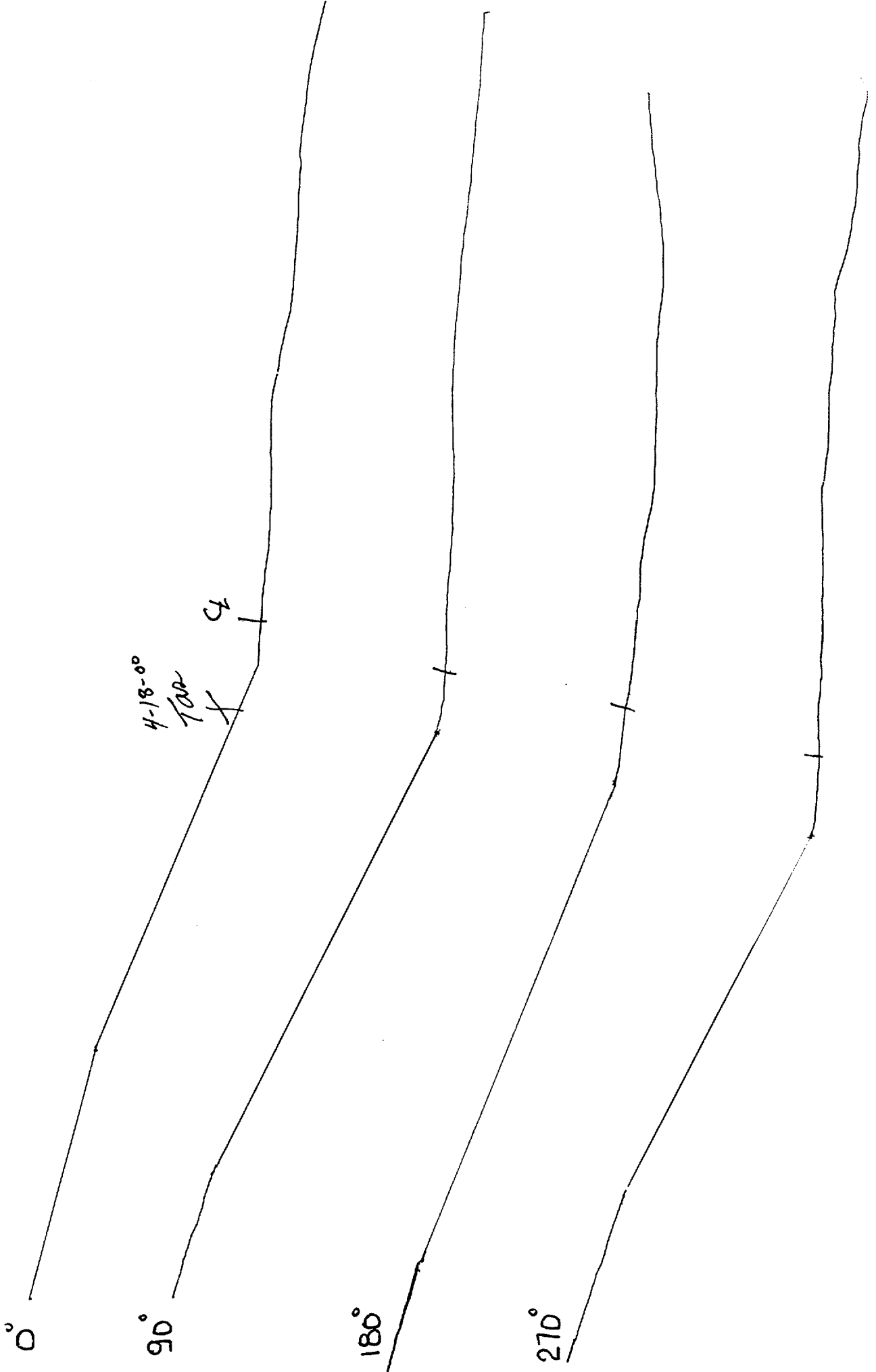
Date

4-19-00

Page 1 of 2

Revision 1

SAFE END

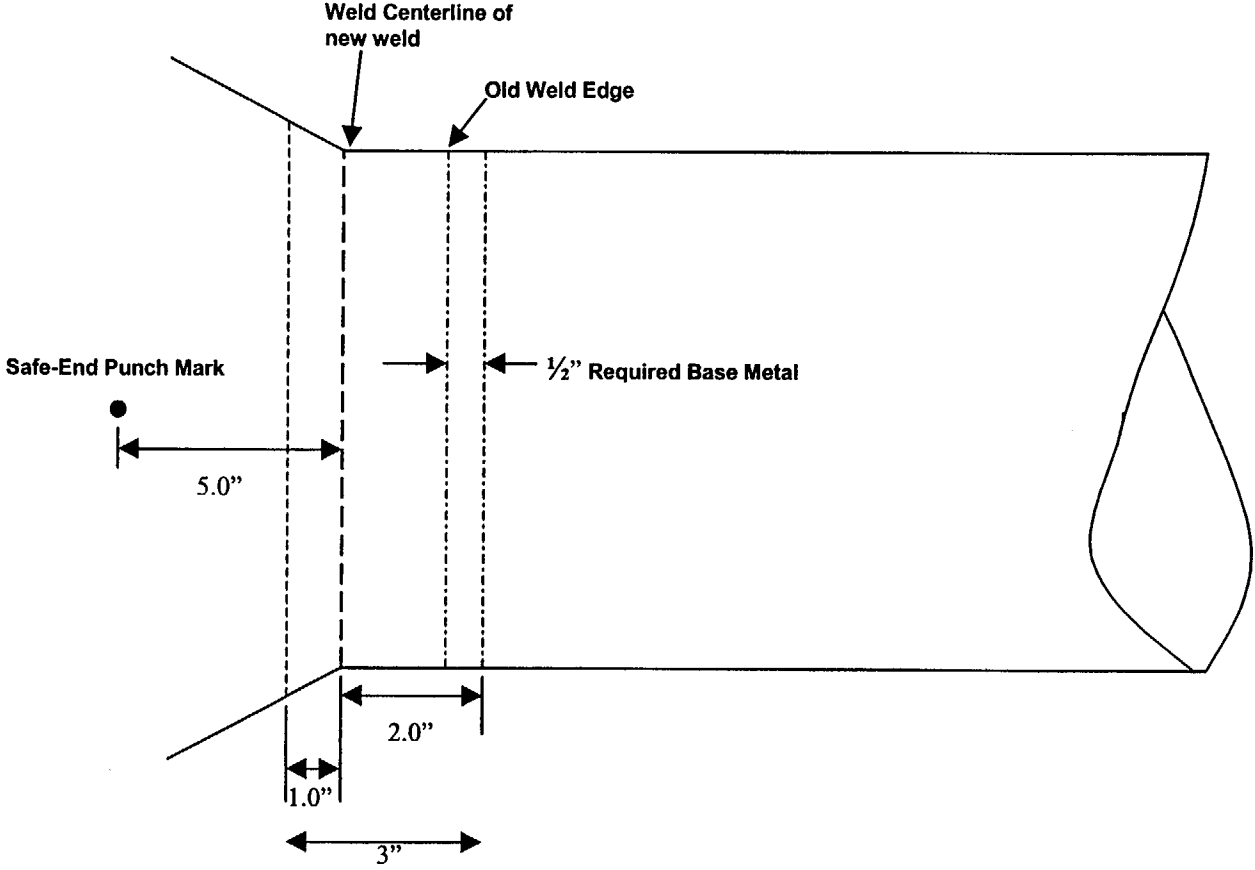




WPIR # P-RCB-059		NONDESTRUCTIVE EXAMINATION REPORT LIQUID PENETRANT EXAMINATION				REPORT # <i>PT-00-158</i>
JOB # 23734	JOB NAME FARLEY UNIT 1 SGR			SURFACE CONDITION <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AS WELDED		DATE <i>4/19/00</i>
ISO / DWG # FSK-M-145	ITEM / COMP ID FW1-SG	TIME OF EXAM <input checked="" type="checkbox"/> N/A <input type="checkbox"/> PRE-PWHT <input type="checkbox"/> POST-PWHT		COMPONENT TEMP <i>74°F</i>		
CODE / WELD CLASS ASME XI CL I	COMPONENT CONFIGURATION HOT LEG / EL TO SAFE-END		MATL TYPE <input type="checkbox"/> C/S <input checked="" type="checkbox"/> S/S <input type="checkbox"/> DISSIM METAL	PROCEDURE & REVISION PT (SR)-ASME III / XI REV. 2		
	CLEANER/REMOVER	PENETRANT		DEVELOPER		
MFR	MAGNAFLUX	MAGNAFLUX		MAGNAFLUX		
TYPE	SKC-S	SKL-SP		SKD-S2		
BATCH #	99M01K	98J11K		99G09K		
INDICATION CODE:	NI=NO INDICATIONS NRI=NO RECORDABLE INDICATIONS ROUND=ROUNDED INDICATION LINEAR=LINEAR INDICATION		C=CRACK			
PART OR WELD #	ACC (✓)	REJ (✓)	IND CODE	REMARKS		
<i>FW1SG</i>	<i>✓</i>		<i>NRI</i>	<i>NONE</i>		
<i>OD only</i>						
<i>AA1-4200-4R</i>						
SKETCH / COMMENTS						
AREA OF EXAMINATION PERFORMED IN ACCORDANCE WITH ATTACHED SNC DRAWING. AREA EXAMINED INCLUDED FW1-SG AND 3.0" INTO ELBOW FROM NOZZLE SIDE OF EXAMINATION AREA.						
STEAM GENERATOR 1B						
M&TE NO. <u><i>198060</i></u>						
CAL. DUE DATE: <u><i>7/26/00</i></u>						
EXAMINER <i>Wendell Sully</i>			LEVEL <i>II</i>	DATE <i>4/19/00</i>		
REVIEW <i>Cee Naaj</i>			<i>III</i>	DATE <i>4-19-00</i>		

Samy D. Hopkins SNC Level III 4-20-00
and reviewed: Cee Naaj 4/22/00

Steam
Generator



PT Examination of 3" Width will cover all LEGS.

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4200-4R** Date **4/20/00** Sheet No. **S00F1U263** Page **1** of **2**

Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	008NXT/008NXW	Thickness	3.5"	1/4	80	1.5	1.2	NA	NA	NA	NA
Ax. dB		Circ. dB		Cal. Temp.	70	1/2	70	3.0	1.95	NA	NA	NA	NA
Ref.	66	NA	Size	2 (1.0")	Cal. In	0930	3/4	40	4.5	NA	NA	NA	NA
Scan	72	NA	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	ID	15	6.0	NA	NA	NA	NA
Reject	OFF	Nominal Angle	53	Cal. Out	1445	Calibration Remarks: NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.							
Frequency	1.0 MHZ	Measured Angle	53	Ref. Blk. No.	NA								
Mode	DUAL	Cable Type	RG 174	Reflector	NA								
Damping	500 Ohms	Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: **80** °F Configuration: **ELBOW TO SAFE-END** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	
2				NA												

Examination/Limitation Remarks: **EXAMINED FROM SAFE-END SIDE**

** Combined Code Coverage from all scans Bal 4-20-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NL	2 (L) NA	7 & 8 (W) NA	5 - from NL to .9"	2 - from NA to NA	From (5) NA to (2) NA						
Primary Examiner	Assistant Examiner				Level	Non-Technical Review				Date			
JOHN W. BELL	<i>John W. Bell</i>				II	GEORGE A. MORINI				4-20-00			
SNC NDE Level I/II/III Review	Date	Percentage of Code Coverage				Level	ANII Review				Date		
<i>[Signature]</i>	4/20/00	* 73.8 %				II	<i>Terry Stylen</i>				4/22/00		

Figure 1

Revision 7

April 19, 2000

ASME Code Coverage for Steam Generator Hot Leg /Cold Leg

The following list is the numeric values assigned based on the OD profile and contour taken from A Loop. One dimension is provided which includes the new narrow groove weld and a portion of the old existing weld. The drawing to be used has a thickness of 3.3". The inner 1/3t dimension to be used will be 1.1". The width is based on the toe of the ID weld from the safe end side to the toe of the old existing OD weld, which measures 2.1".

AXIAL SCANS

Code requires .25" on each side of the above described weld toes.

Code coverage = 2.6" (width) x 1.1" (height) = 2.86 sq. "

Scan from elbow side: no limitations, 2.86sq " / 2.86 sq. " = 100%

Scan from safe end side: limited due to taper / apex, two areas,

Box 1.35" x 1.1" = 1.485 sq. "

Triangle $\frac{1}{2} \times b \times h = .5 \times .75" \times 1.1" = .413 \text{ sq. "}$

Total = 1.898 sq. " / 2.86 sq. " = 66.3%

CIRC. SCANS

Code requires .5" on each side of the above described weld toes.

Code coverage = 3.1" (width) x 1.1" (height) = 3.41 sq. "

Scan from safe end CW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

Scan from safe end CCW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CCW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

Total ASME Code Coverage for the Weld is 73.8%. This is based on adding all four required scans, 100% + 66.3% + 64.5% + 64.5% = 295.3%
295.3/4 = 73.8%

NOTE: The coverage for the CW / CCW scans was not based on the centerline of the two transducers, but the centerline of one of the dual elements. ASME Section XI, Appendix III-2410(a) requires a 50% overlap between scans. Smaller transducers were tried to obtain maximum code coverage. Due to the metallurgical grain structure of the materials, a dual, 1.0 MHz, 1" diameter, transducer with curved shoes was used. On the safe end, wedges with an 18-degree tilt were used for the CW/CCW scans. The maximum area that could be scanned was examined. Supplement 4, (a) (1) of ASME Section XI requires a 35-degree or greater for the beam angle at the ID surface when using refracted Longitudinal waves. Only one direction coverage of the axial scan on the elbow side was obtained. RL waves are used with a 4/8-node calibration. Shear waves to provide a 6/8 vee-path is not practical for the cast stainless steel examination on the elbow. Thus we were limited to 66.3% from this direction.

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4200-4R** Date **4/20/00** Sheet No. **S00F1U264** Page **1** of **1**
 Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA/APR-33	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	008NXR/008NXV	Thickness	2.45"	NA	NA	NA	NA	1/4	30	1.5	.65
Ax. dB		Circ. dB		Cal. Temp.	80	NA	NA	NA	NA	1/2	80	3.0	1.3
Ref.	NA	Size	2 (1.0")	Cal. In	1135	NA	NA	NA	NA	3/4	50	4.5	1.9
Scan	NA	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	NA	NA	NA	NA	ID	35	5.8	2.65
Reject	OFF	"A" Dimension	.82"	Cal. Out	1354	Calibration Remarks: NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.							
Frequency	1.0 MHZ	Nominal Angle	45	Ref. Blk. No.	NA								
Mode	DUAL	Measured Angle	45	Reflector	NA								
Damping	500 Ohms	Cable Type	RG 174	Amplitude/Sweep	NA								
		Cable Length	15"										

Comp. Temp.: **80** °F Configuration: **ELBOW TO SAFE-END** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	
7/8				NA													

Examination/Limitation Remarks: **EXAMINED FROM ELBOW SIDE.**

** Combined Code Coverage from all scans Gal 42000*

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA	to NA	2 - from NA	to NA	From (5) .2"	to (2) NL			
Primary Examiner	Level	Assistant Examiner				Level	Non-Technical Review				Date		
JOHN W. BELL	II	GEORGE A. MORINI				II	Terry Styer				4-20-00		
SNC NDE Level III/II Review	Date	Percentage of Code Coverage				ANII Review				Date			
<i>[Signature]</i>	4-20-00	*73.8 %				<i>[Signature]</i>				4/22/00			

Figure 1

Revision 7

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit: 1 Sketch/Component No.: ALA1-4200-4R Date: 4/20/00 Sheet No.: S00F1U262 Page 1 of 3

Procedure/Rev./TCN: FNP-0-NDE-100.41 / 2 / 2A Couplant/Batch No.: Ultragel II / 00125 Thermometer SN/Cal Due Date: 38193 / 8/27/2000 Linearity Sheet No.: S00F1L001

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA/APR-33	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	D20267/D20268	Thickness	2.45"	1/4	30	1.5	.62	NA	NA	NA	NA
Ax. dB		Circ. dB		Cal. Temp.	80	1/2	80	3.0	1.2	NA	NA	NA	NA
Ref.	58	NA	Size	2 (1.0")	Cal. In	1130	3/4	45	4.5	NA	NA	NA	NA
Scan	64	NA	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	ID	25	6.1	NA	NA	NA	NA
Reject	OFF		"A" Dimension	.82"	Cal. Out	1350	Calibration Remarks: NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC.						
Frequency	1.0 MHZ		Nominal Angle	45	Ref. Blk. No.	NA							
Mode	DUAL		Measured Angle	45	Reflector	NA							
Damping	500 Ohms		Cable Type	RG 174	Amplitude/Sweep	NA							
			Cable Length	15"									

Comp. Temp.: 80 °F Configuration: ELBOW TO SAFE-END Wo Location V-STAMP Lo Location TDC100.5 ^{Doc} 4-20-00

Scan Dir.	Results			Ind. No.	% DAC	L1	Length		Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI				Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	
5				NA													

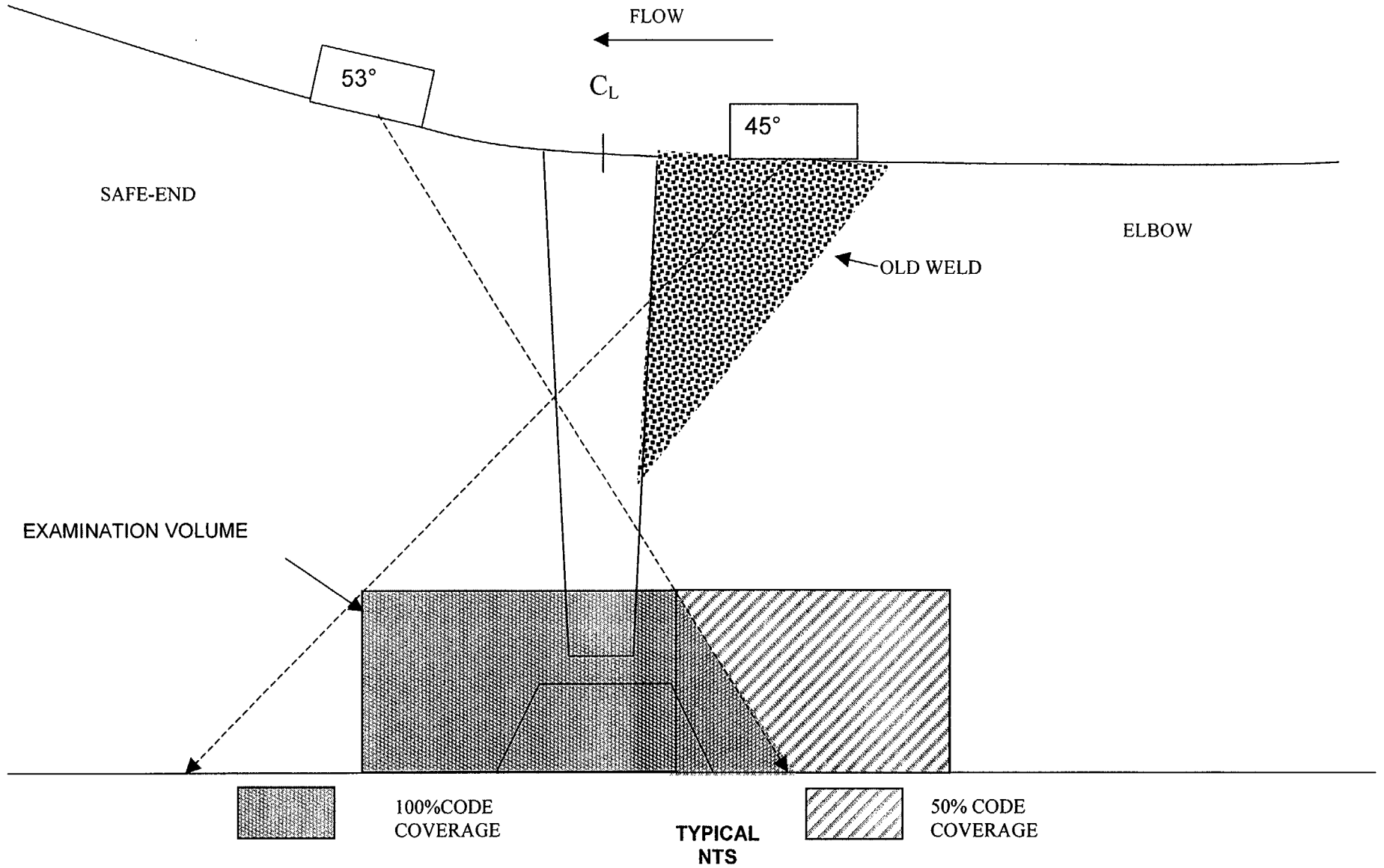
Examination/Limitation Remarks: EXAMINED FROM ELBOW SIDE.

** Combined Code Coverage from all scans Dal 4-20-00*

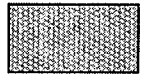
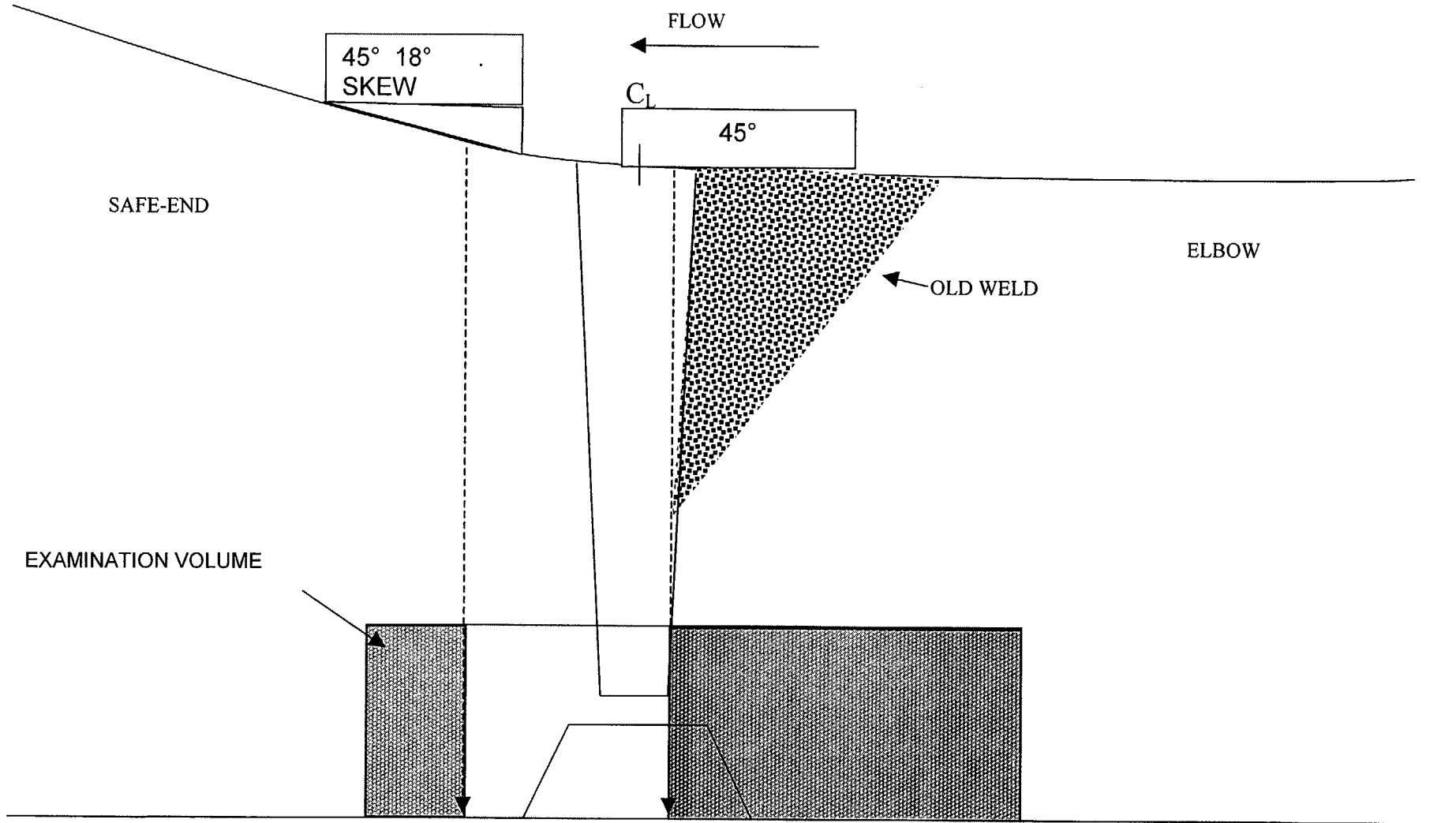
Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)										
106.5	2.2	5 (L)	NA	2 (L)	NL	7 & 8 (W)	NA	5 - from	NA	to	NA	2 - from	NA	to	.9	From (5)	NA	to	(2)	NA
Primary Examiner	Level II Assistant Examiner				Level II Non-Technical Review				Date											
JOHN W. BELL <i>John W Bell</i>	GEORGE A. MORINI <i>George A Morini</i>				Terry Styren <i>Terry Styren</i>				4-20-00											
SNC NDE Level II/III Review	Date	Percentage of Code Coverage				ANII Review				Date										
<i>Darryl Roffley</i>	4-20-00	* 73.8 %				<i>cgward</i>				4/22/00										

Figure 1

Revision 7



AX CODE COVERAGE PLOT
AX. CODE COVERAGE OBTAINED =83.2%
CIRC CODE COVERAGE OBTAINED =64.5%
TOTAL CODE COVERAGE OBTAINED =73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT



100% CODE COVERAGE

TYPICAL NTS



NO CODE COVERAGE

CIRC CODE COVERAGE PLOT
CIRC CODE COVERAGE OBTAINED =64.5%
AX. CODE COVERAGE OBTAINED =83.2%
TOTAL CODE COVERAGE OBTAINED =73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41

Southern Nuclear Operating Company

Unit Sketch/Component No.
1 ALA1-4200-4R

Date
4/20/00

Sheet No.
S00F1U265

Page / of /

Procedure/Rev./TCN

Couplant/Batch No.

Thermometer SN/Cal Due Date

Linearity Sheet No.

FNP-0-NDE-100.41 / 2 / 2A

Ultragel II / 00125

38193 / 8/27/2000

S00F1L001

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	H12393/H12394	Thickness	3.5"	NA	NA	NA	NA	1/4	40	1.5	.75
Ax. dB		Circ. dB		Cal. Temp.	70	NA	NA	NA	NA	1/2	80	3.0	1.8
Ref.	NA	70.4		Cal. In	0940	NA	NA	NA	NA	3/4	65	4.5	2.9
Scan	NA	76.4		Cal. Chk.	N/A	NA	NA	NA	NA	ID	20	6.2	3.9
Reject	OFF			Cal. Out	1430	NA	NA	NA	NA				
Frequency	1.0 MHZ			Ref. Blk. No.	NA	Calibration Remarks:							
Mode	DUAL			Reflector	NA	NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC. 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.							
Damping	500 Ohms			Amplitude/Sweep	NA								

Comp. Temp.: 80 °F Configuration: ELBOW TO SAFE-END

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	
7				NA												

Examination/Limitation Remarks: EXAMINED FROM SAFE-END SIDE.

** Combined Code Coverage from all scans Bal 4-20-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined		Extent of Perpendicular Scans (W)			Extent of Parallel Scans (L)		
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA	to NA	2 - from NA	to NA	From (5) NL to (2) .5"
Primary Examiner	Level	Assistant Examiner	Level	Non-Technical Review	Date				
JOHN W. BELL	II	GEORGE A. MORINI	II	Terry Styger	4-20-00				
SNC NDE Level III Review	Date	Percentage of Code Coverage	ANII Review		Date				
Samuel J. Miller	4-20-00	* 73.8 %	egward		4/22/00				

Figure 1

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA1-4200-4R	Date 4/20/00	Sheet No. S00F1U266	Page of
Procedure/Rev./TCN FNP-0-NDE-100.41 / 2 / 2A	Couplant/Batch No. Ultragel II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000	Linearity Sheet No. S00F1L001	

Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Axial Scan Calibration				Circ. Scan Calibration			
						Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	G14510 / G14511	Thickness	3.5"								
Ax. dB		Circ. dB		Cal. Temp.	70								
Ref.	NA	71.2	Size	2 (1.0")	Cal. In	0950				1/4	40	1.5	.75
Scan	NA	77.2	Frequency/Mode	1.0 / L	Cal. Chk.	N/A				1/2	80	3.0	1.8
Reject	OFF		"A" Dimension	.82"	Cal. Out	1440				3/4	65	4.5	2.9
Frequency	1.0 MHZ		Nominal Angle	45	Ref. Blk. No.	NA				ID	25	6.2	3.9
Mode	DUAL		Measured Angle	45	Reflector	NA							
Damping	500 Ohms		Cable Type	RG 174	Amplitude/Sweep	NA							

Calibration Remarks:
2.6 dB ADDED TO RAISE ID NOTCH TO DAC, (68.6 + 2.6 = 71.2). 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.

Comp. Temp.: 80 °F Configuration: ELBOW TO SAFE-END Wo Location V-STAMP Lo Location TDC

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	
8				NA													

Examination/Limitation Remarks:

EXAMINED FROM SAFE-END SIDE.

** Combined Code Coverage from all scans del 4000*

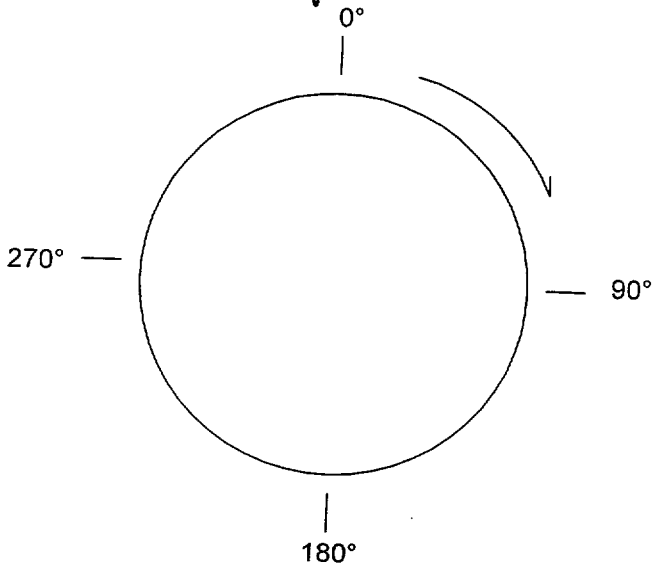
Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)			Extent of Parallel Scans (L)		
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA to NA	2 - from NA to NA	From (5) NL to (2) .5"			
Primary Examiner	Level	Assistant Examiner	Level	Non-Technical Review	Date	Percentage of Code Coverage		ANII Review		Date
JOHN W. BELL	II	GEORGE A. MORINI	II	Terry Styer	4-20-00	* 73.8 %				4-22-00
SNC NDE Level II/III Review										

Figure 1

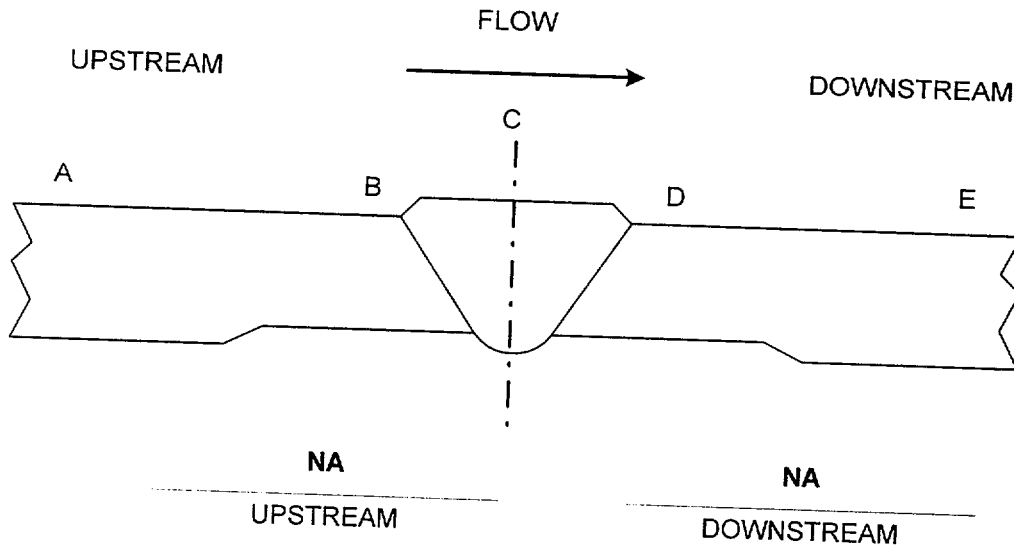
Ultrasonic Thickness and Contour Examination Record

FNP-0-NDE-100.35
Southern Nuclear Operating Company

Unit 1	Weld Number ALA1-4200-4R	Sheet No. S00F1U272	Date 4/20/2000
/Drawing Number ALA1-4200		Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer STAVELEY
Material Type <input type="checkbox"/> C/S <input checked="" type="checkbox"/> S/S Other	Calibration Standard/ Serial No. SS IIW / 86-4245	Model Number SONIC 136	Serial Number 136-896K
Examiner JOHN W. BELL <i>John W Bell</i>	SNT Level II	Transducer Manufacturer KBA	Type <i>Sol 4200</i> Size .75
Examiner GEORGE A. MORINI <i>George A Morini</i>	SNT Level II	Serial Number B25613	Frequency 1.0 MHz



Location	0°	90°	180°	270°
A	3.4	3.4	3.3	3.4
B	3.2	3.2	3.0	3.2
C	3.0	3.0	3.0	3.0
D	3.4	3.4	3.4	3.4
E	4.2	4.2	4.2	4.2



REMARKS:

Level II/III Review <i>George A Morini</i>	Level III	Date 4/20/00	Non-Technical Review <i>Terry Styren</i>	Date 4-20-00
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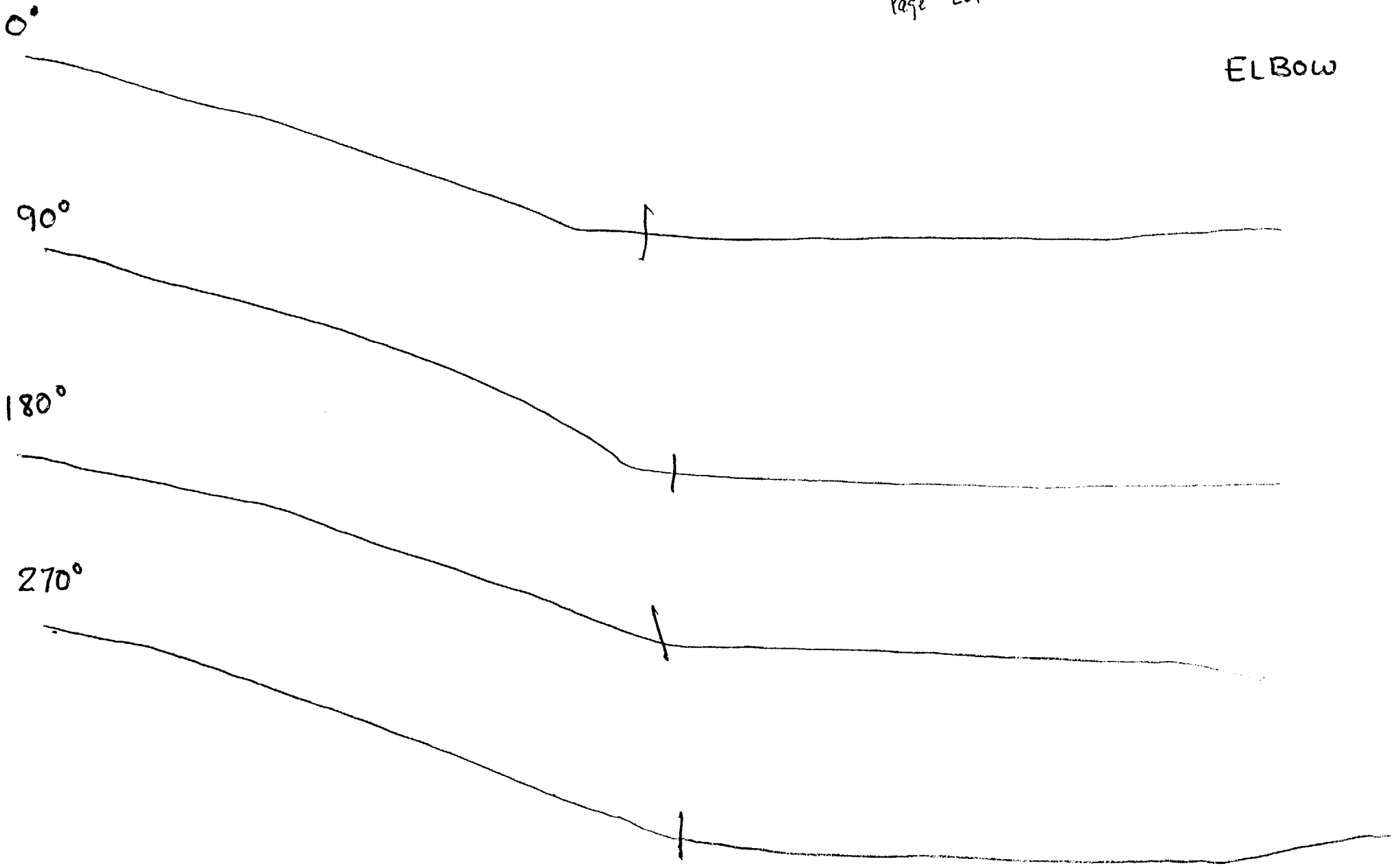
B HOT LEG A4A1-4200-4R

SHEET No S00FIU272

Page 2 of 2

SAFE END

ELBOW

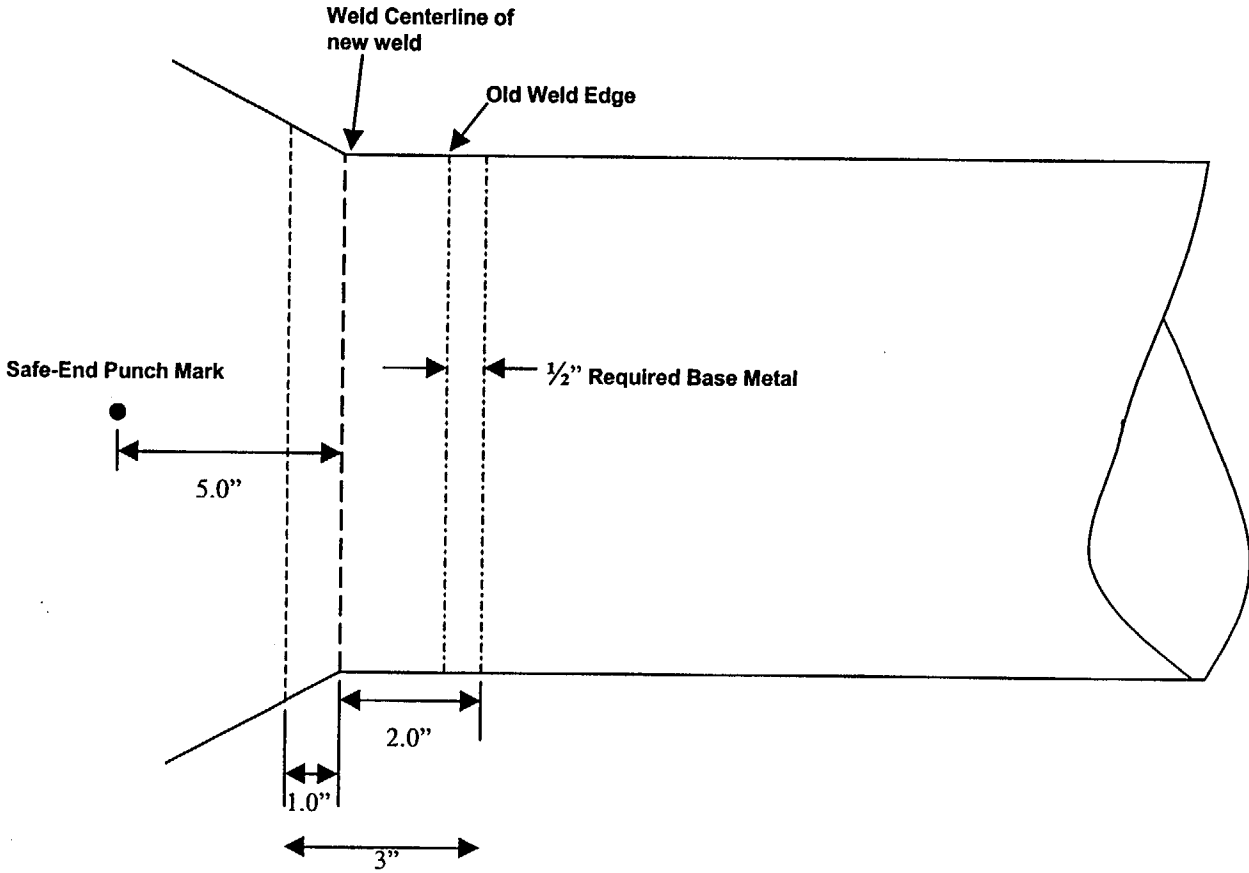




WPIR # P-RCB-059		NONDESTRUCTIVE EXAMINATION REPORT LIQUID PENETRANT EXAMINATION			REPORT # <i>PT-00-157</i>
JOB # 23734	JOB NAME FARLEY UNIT 1 SGR		SURFACE CONDITION <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AS WELDED		DATE <i>4/19/00</i>
ISO / DWG # FSK-M-145	ITEM / COMP ID FW2-SG	TIME OF EXAM <input type="checkbox"/> PRE-PWHT <input type="checkbox"/> POST-PWHT	<input checked="" type="checkbox"/> N/A		COMPONENT TEMP <i>74°F</i>
CODE / WELD CLASS ASME XI CL I	COMPONENT CONFIGURATION COLD LEG / SAFE-END TO EL		MATL TYPE <input type="checkbox"/> C/S <input checked="" type="checkbox"/> S/S <input type="checkbox"/> DISSIM METAL	PROCEDURE & REVISION PT (SR)-ASME III / XI REV. 2	
	CLEANER/REMOVER	PENETRANT		DEVELOPER	
MFR	MAGNAFLUX	MAGNAFLUX		MAGNAFLUX	
TYPE	SKC-S	SKL-SP		SKD-S2	
BATCH #	99M01K	98J11K		99G09K	
INDICATION CODE:	NI=NO INDICATIONS NRI=NO RECORDABLE INDICATIONS ROUND=ROUNDED INDICATION LINEAR=LINEAR INDICATION		C=CRACK		
PART OR WELD #	ACC (✓)	REJ (✓)	IND CODE	REMARKS	
<i>FW2SG</i>	<i>✓</i>		<i>NRI</i>	<i>NONE</i>	
<i>OD only</i>					
<i>ALA1-4200-5R</i>					
SKETCH / COMMENTS AREA OF EXAMINATION PERFORMED IN ACCORDANCE WITH ATTACHED SNC DRAWING. AREA EXAMINED INCLUDED FW2-SG AND 3.0" INTO ELBOW FROM NOZZLE SIDE OF EXAMINATION AREA. STEAM GENERATOR 1B					
M&TE NO. <u>198060</u>					
CAL. DUE DATE: <u>7/26/00</u>					
EXAMINER <i>Wade A. Sells</i>			LEVEL <i>II</i>	DATE <i>4/19/00</i>	
REVIEW <i>Al Nagel</i>			LEVEL <i>III</i>	DATE <i>4-19-00</i>	

Henry H. Jeffers SNC Level III 4-20-00 ASME REVIEW: CGW and 4/21/00

Steam
Generator



PT Examination of 3" Width will cover all LEGS.

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41

Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4200-5R** Date **4/20/00** Sheet No. **S00F1U267** Page **1** of **2**
 Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA/APR-33	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	D20267/D20268	Thickness	2.45"	1/4	30	1.5	.62	NA	NA	NA	NA
Ax. dB		Size	2 (1.0")	Cal. Temp.	80	1/2	80	3.0	1.2	NA	NA	NA	NA
Ref.	58	Frequency/Mode	1.0 / L	Cal. In	1130	3/4	45	4.5	1.85	NA	NA	NA	NA
Scan	64	"A" Dimension	.82"	Cal. Chk.	N/A	ID	25	6.1	2.5	NA	NA	NA	NA
Reject	OFF	Nominal Angle	45	Cal. Out	1350	Calibration Remarks: NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC.							
Frequency	1.0 MHZ	Measured Angle	45	Ref. Blk. No.	NA								
Mode	DUAL	Cable Type	RG 174	Reflector	NA								
Damping	500 Ohms	Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: **80** °F Configuration: **SAFE-END TO ELBOW** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC			Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI		L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	-->1"				
2			●	1	100%	33.95	34	34.1	2.87	3.0	3.125	3.92	4.38	4.7	3.4	3.0	3.2	SEE IER-13 Q&A 4-20-00		

ELBOW Q&A 4-20-00

Examination/Limitation Remarks: **EXAMINED FROM SAFE-END SIDE. INDICATION CAN BE SEEN AT LOW AMPUITUDE AT VARIOUS LOCATIONS**

AROUND THE WELD.

*** COMBINED CODE COVERAGE FROM ALL SCANS. Q&A 4-20-00**

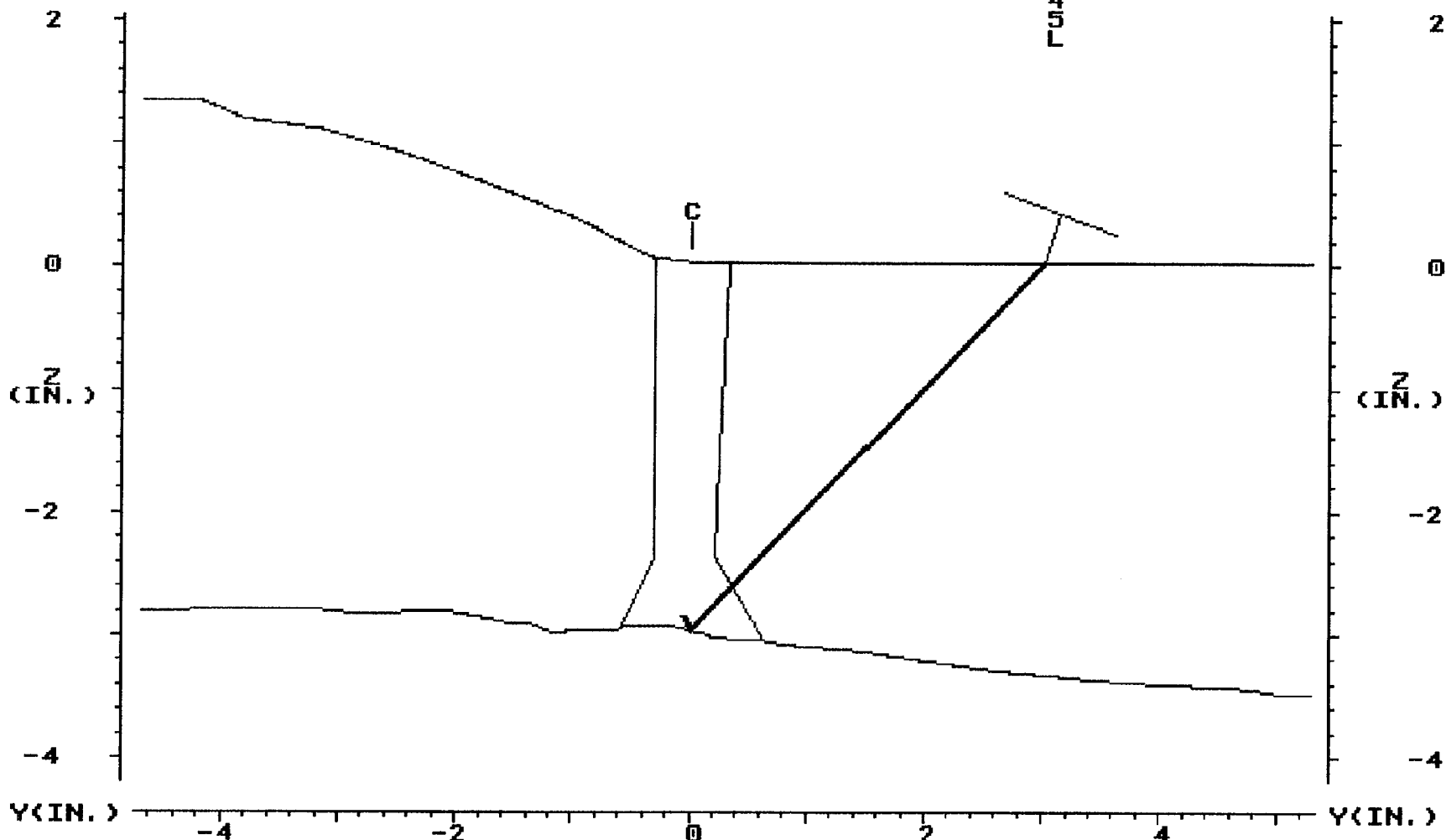
Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)						Extent of Parallel Scans (L)									
106.5	2.2	5 (L)	NA	2 (L)	NL	7 & 8 (W)	NA	5 - from	NA	to	NA	2 - from	NL	to	.9"	From (5)	NA	to	(2)	NA
Primary Examiner	Assistant Examiner			Level	Non-Technical Review						Date									
JOHN W. BELL <i>John W Bell</i>	GEORGE A. MORINI <i>[Signature]</i>			II	Terry Styren <i>[Signature]</i>						4-20-00									
SNC NDE Level III Review	Date	Percentage of Code Coverage		ANII Review						Date										
<i>[Signature]</i>	4-20-00	* 73.8 %		<i>[Signature]</i>						4/21/00										

Figure 1

Revision 7

FLOW →

45L



45L	SET	1R16B5RI.DAT						SET
3.10	DEP							DEP
4.38	MP	INDICATION IS FROM ID GEOMETRY CAUSED BY GRINDING OF						MP
46.58	TOF	WELD. ACTUAL ID PROFILE IS SHOWN. SURFACE CREEPING						TOF
	ARC	WAVE TRANSDUCER USED TO SCAN THE WELD FROM THE I.D.						ARC
	GATE	SURFACE. NO PLANAR INDICATIONS FOUND. SEE IER-13.						GATE
0.010	STEP							STEP
	EXIT	MAKERAY	UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT
		PLANT: FARLEY UNIT 1 1R16		4/20/00		CIRC. POS.: 34"		
		SYSTEM: RSG-B RCS COLD LEG				ANALYST: J.ERIC AYCOCK L/III		
		COMPONENT: ALA1-4200-5R				CAL. SHEET: 500F1U267		

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit 1 Sketch/Component No. ALA1-4200-5R

Date 4/20/00

Sheet No. S00F1U268

Page 1 of 3

Procedure/Rev./TCN FNP-0-NDE-100.41 / 2 / 2A

Couplant/Batch No. Ultragel II / 00125

Thermometer SN/Cal Due Date 38193 / 8/27/2000

Linearity Sheet No. S00F1L001

Instrument	Search Unit	Calibration Block
Instrument: STAVELEY	Transducer Mfg. KBA	Cal. Blk. No. ALA-52
Serial No. 136-896K	Serial No. 008NXT/008NXW	Thickness 3.5"
Ax. dB 66	Size 2 (1.0")	Cal. Temp. 70
Circ. dB NA	Frequency/Mode 1.0 / L	Cal. In 0930
Ref. 72	"A" Dimension .82"	Cal. Chk. N/A
Reject OFF	Nominal Angle 53	Cal. Out 1445
Frequency 1.0 MHZ	Measured Angle 53	Ref. Blk. No. NA
Mode DUAL	Cable Type RG 174	Reflector NA
Damping 500 Ohms	Cable Length 15"	Amplitude/Sweep NA

Axial Scan Calibration				Circ. Scan Calibration			
Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
1/4	80	1.5	1.2	NA	NA	NA	NA
1/2	70	3.0	1.95	NA	NA	NA	NA
3/4	40	4.5	2.95	NA	NA	NA	NA
ID	15	6.0	4.2	NA	NA	NA	NA

Calibration Remarks:
NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.

Comp. Temp.: 80 °F Configuration: SAFE-END TO ELBOW

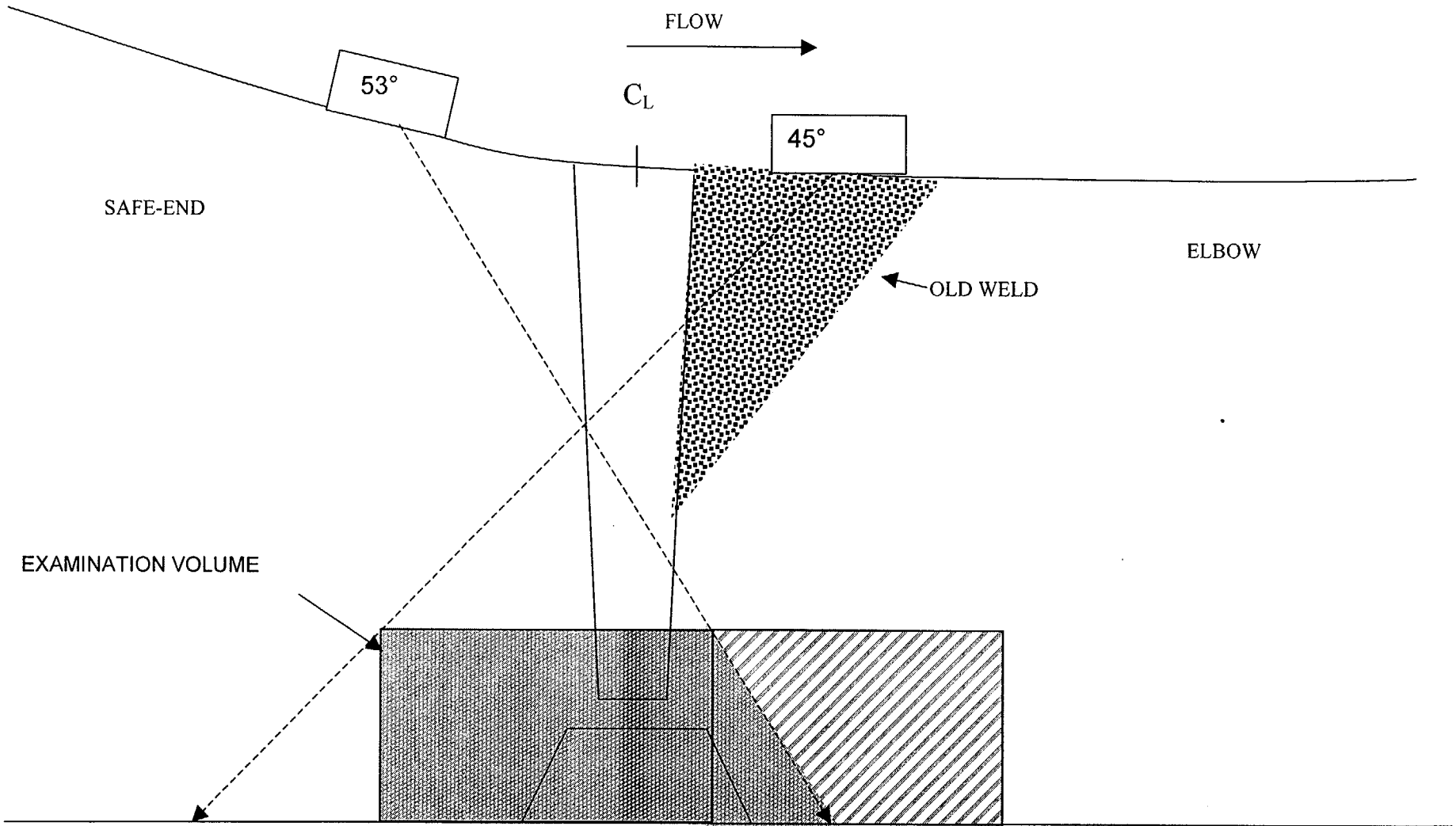
Scan Dir.	Results			Ind. No.	% DAC	L1	Length		Reference Measurement			Sweep Position			Thickness		Notes
	NI	NRI	RI				Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	
5				NA													

Examination/Limitation Remarks: EXAMINED FROM SAFE-END SIDE.

** Combined code coverage from all scans dat 4-2000*

Total Length of Weld: 106.5	Crown Width: 2.2	Total Length of Weld Examined: 5 (L) NL 2 (L) NA		Extent of Perpendicular Scans (W): 7 & 8 (W) NA		Extent of Parallel Scans (L): 5 - from NL to .9" 2 - from NA to NA	
Primary Examiner: JOHN W. BELL	Assistant Examiner: GEORGE A. MORINI	Level: II	Date: 4-20-00	Level: II	Date: 4-20-00	Non-Technical Review: Terry Styen	Date: 4-20-00
SNC NDE Level III/IV Review: [Signature]	Percentage of Code Coverage: *73.8 %	Level: III	Date: 4-20-00	Level: II	Date: 4/21/00	ANII Review: [Signature]	Date: 4/21/00

Figure 1



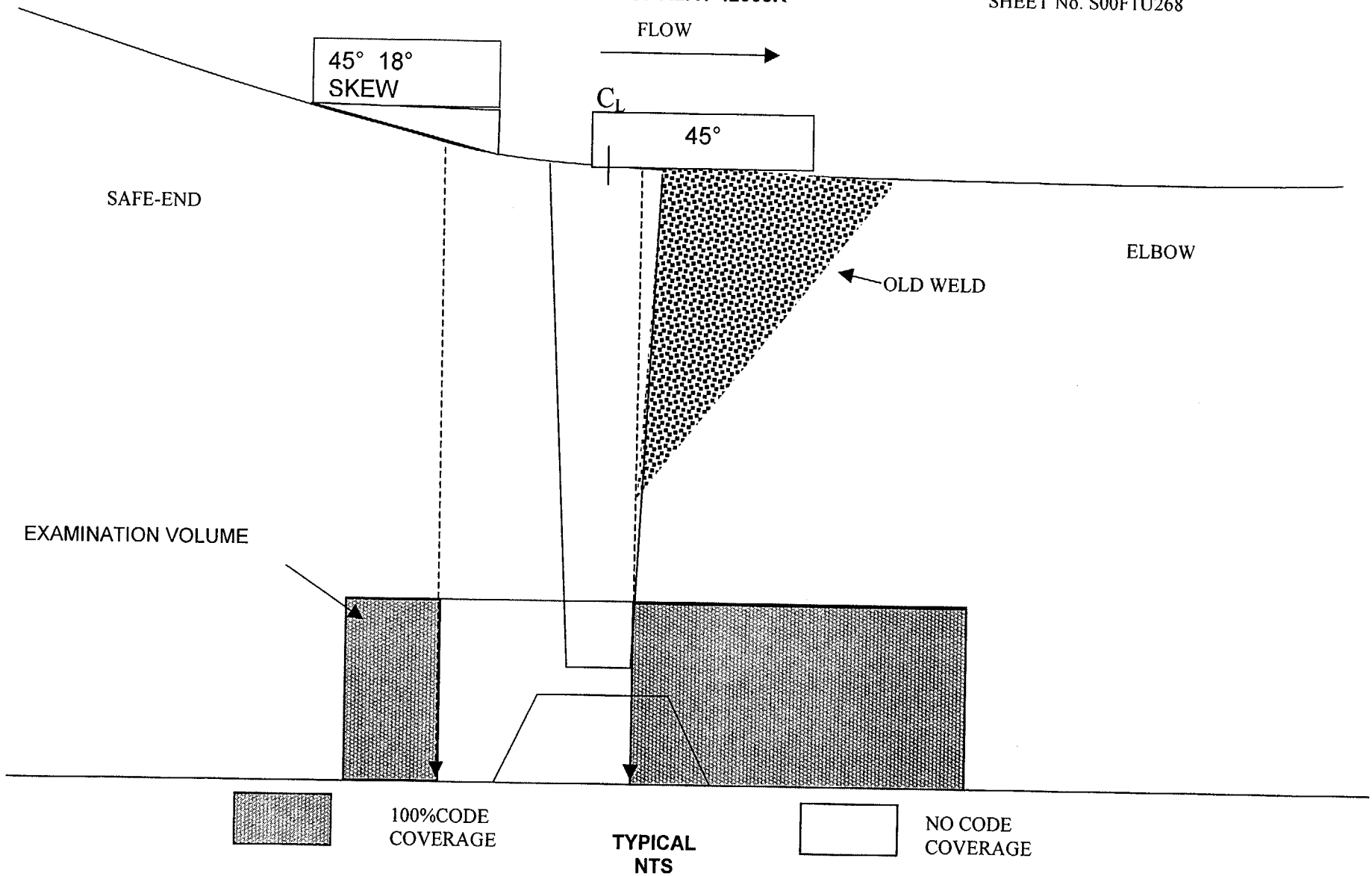
100% CODE
COVERAGE

TYPICAL
NTS



50% CODE
COVERAGE

AX CODE COVERAGE PLOT
AX. CODE COVERAGE OBTAINED =83.2%
CIRC CODE COVERAGE OBTAINED =64.5%
TOTAL CODE COVERAGE OBTAINED =73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT



CIRC CODE COVERAGE PLOT
CIRC CODE COVERAGE OBTAINED =64.5%
AX. CODE COVERAGE OBTAINED =83.2%
TOTAL CODE COVERAGE OBTAINED =73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41

Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA1-4200-5R	Date 4/20/00	Sheet No. S00F1U270	Page 1 of 2
Procedure/Rev./TCN FNP-0-NDE-100.41 / 2 / 2A	Couplant/Batch No. Ultragel II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000	Linearity Sheet No. S00F1L001	

Instrument	Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration					
	Ax. dB	Circ. dB	Transducer Mfg.	Serial No.	Cal. Blk. No.	Thickness	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
STAVELEY			KBA	H12393/H12394	ALA-52	3.5"								
136-896K														
			2 (1.0")		70									
NA	70.4		1.0 / L		0940		NA	NA	NA	NA	1/4	40	1.5	.75
NA	76.4		.82"		N/A		NA	NA	NA	NA	1/2	80	3.0	1.8
OFF			45		1430		NA	NA	NA	NA	3/4	65	4.5	2.9
1.0 MHZ			45		NA		NA	NA	NA	NA	ID	20	6.2	3.9
DUAL			RG 174		NA		NA	NA	NA	NA				
500 Ohms			15"		NA		NA	NA	NA	NA				

Calibration Remarks:
NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC. 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.

Comp. Temp.: 80 °F	Configuration: SAFE-END TO ELBOW	Wo Location V-STAMP	Lo Location TDC						
Scan Dir.	Results NI NRI RI	Ind. No.	% DAC	L1	Length Lmax L2	Reference Measurement W1 Wmax W2	Sweep Position S1 Smax S2	Thickness 1"<-- C/L -->1"	Notes:
7		NA							

Examination/Limitation Remarks: **EXAMINED FROM SAFE-END SIDE.****Combined Code Coverage from all scans Sat 4-20-00*

Total Length of Weld 106.5	Crown Width 2.2	Total Length of Weld Examined 5 (L) NA 2 (L) NA 7 & 8 (W) NL	Extent of Perpendicular Scans (W) 5 - from NA to NA	Extent of Parallel Scans (L) 2 - from to NA
Primary Examiner JOHN W. BELL	Level II	Assistant Examiner GEORGE A. MORINI	Level II	Non-Technical Review Terry Styron
SNC NDE Level II/III Review <i>[Signature]</i>	Date 4-20-00	Percentage of Code Coverage * 73.8 %	ANII Review <i>[Signature]</i>	Date 4-20-00

Figure 1

Revision 7

April 19, 2000

ASME Code Coverage for Steam Generator Hot Leg /Cold Leg

The following list is the numeric values assigned based on the OD profile and contour taken from A Loop. One dimension is provided which includes the new narrow groove weld and a portion of the old existing weld. The drawing to be used has a thickness of 3.3". The inner 1/3t dimension to be used will be 1.1". The width is based on the toe of the ID weld from the safe end side to the toe of the old existing OD weld, which measures 2.1".

AXIAL SCANS

Code requires .25" on each side of the above described weld toes.

Code coverage = 2.6" (width) x 1.1" (height) = 2.86 sq. "

Scan from elbow side: no limitations, 2.86sq " / 2.86 sq. " = 100%

Scan from safe end side: limited due to taper / apex, two areas,

Box 1.35" x 1.1" = 1.485 sq. "

Triangle $\frac{1}{2} \times b \times h = .5 \times .75" \times 1.1" = .413 \text{ sq. "}$

Total = 1.898 sq. " / 2.86 sq. " = 66.3%

CIRC. SCANS

Code requires .5" on each side of the above described weld toes.

Code coverage = 3.1" (width) x 1.1" (height) = 3.41 sq. "

Scan from safe end CW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

Scan from safe end CCW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CCW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

Total ASME Code Coverage for the Weld is 73.8%. This is based on adding all four required scans, $100\% + 66.3\% + 64.5\% + 64.5\% = 295.3\%$
 $295.3/4 = 73.8\%$

NOTE: The coverage for the CW / CCW scans was not based on the centerline of the two transducers, but the centerline of one of the dual elements. ASME Section XI, Appendix III-2410(a) requires a 50% overlap between scans. Smaller transducers were tried to obtain maximum code coverage. Due to the metallurgical grain structure of the materials, a dual, 1.0 MHz, 1" diameter, transducer with curved shoes was used. On the safe end, wedges with an 18-degree tilt were used for the CW/CCW scans. The maximum area that could be scanned was examined. Supplement 4, (a) (1) of ASME Section XI requires a 35-degree or greater for the beam angle at the ID surface when using refracted Longitudinal waves. Only one direction coverage of the axial scan on the elbow side was obtained. RL waves are used with a 4/8-node calibration. Shear waves to provide a 6/8 vee-path is not practical for the cast stainless steel examination on the elbow. Thus we were limited to 66.3% from this direction.

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-NDE-100.41
Southern Nuclear Operating Company

Unit	Sketch/Component No.	Date	Sheet No.	Page	of
1	ALA1-4200-5R	4/20/00	S00F1U269		
Procedure/Rev./TCN	Couplant/Batch No.	Thermometer SN/Cal Due Date	Linearity Sheet No.		
FNP-NDE-100.41 / N/A / N/A	Ultrage II / 00125	38193 / 8/27/2000	S00F1L001		

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA/APR-33	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	008NXR/008NXV	Thickness	2.45"	NA	NA	NA	NA	1/4	30	1.5	.65
Ax. dB		Circ. dB		Cal. Temp.	80	NA	NA	NA	NA	1/2	80	3.0	1.3
Ref.	NA	Size	2 (1.0")	Cal. In	1135	NA	NA	NA	NA	3/4	50	4.5	1.9
Scan	NA	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	NA	NA	NA	NA	ID	35	5.8	2.65
Reject	OFF	"A" Dimension	.82"	Cal. Out	1354	NA	NA	NA	NA				
Frequency	1.0 MHZ	Nominal Angle	45	Ref. Blk. No.	NA	Calibration Remarks:							
Mode	DUAL	Measured Angle	45	Reflector	NA	NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.							
Damping	500 Ohms	Cable Type	RG 174	Amplitude/Sweep	NA								

Comp. Temp.: 80 °F Configuration: SAFE-END TO ELBOW Wo Location V-STAMP Lo Location TDC

Scan Dir.	Results	Ind. No.	% DAC	L1	L2	Length	Reference Measurement	Sweep Position	Thickness	Notes:
7/8	●	NA					W1 Wmax W2	S1 Smax S2	1"<-- C/L -->1"	

Examination/Limitation Remarks: EXAMINED FROM ELBOW SIDE.

* Code Coverage from all scans ^{Tab 4-21-00}

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA	to NA	2 - from NA	to NA	From (5) .2"	to (2) NL			
Primary Examiner	Level	Assistant Examiner				Level	Non-Technical Review				Date		
JOHN W. BELL <i>John W Bell</i>	II	GEORGE A. MORINI <i>[Signature]</i>				II	Terry Steyer <i>[Signature]</i>				4-21-00		
SNC NDE Level II/III Review		Date	Percentage of Code Coverage		ANII Review		Date						
<i>J. Eric O'Connell II</i>		4-21-00	73.8 %		<i>[Signature]</i>		4/21/00						

Figure 1

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-NDE-100.41
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA1-4200-5R	Date 4/20/00	Sheet No. S00F1U271	Page 1 of 1
Procedure/Rev./TCN FNP-NDE-100.41 / N/A / N/A	Couplant/Batch No. Ultragel II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000	Linearity Sheet No. S00F1L001	

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	G14510 / G14511	Thickness	3.5"	NA	NA	NA	NA	1/4	40	1.5	.75
Ax. dB		Circ. dB		Cal. Temp.	70	NA	NA	NA	NA	1/2	80	3.0	1.8
Ref.	NA	Size	2 (1.0")	Cal. In	0950	NA	NA	NA	NA	3/4	65	4.5	2.9
Scan	NA	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	NA	NA	NA	NA	ID	25	6.2	3.9
Reject	OFF	"A" Dimension	.82"	Cal. Out	1440	NA	NA	NA	NA				
Frequency	1.0 MHZ	Nominal Angle	45	Ref. Blk. No.	NA	Calibration Remarks: 2.6 dB ADDED TO RAISE ID NOTCH TO DAC, (68.6 + 2.6 = 71.2). 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.							
Mode	DUAL	Measured Angle	45	Reflector	NA								
Damping	500 Ohms	Cable Type	RG 174	Amplitude/Sweep	NA								
		Cable Length	15"										

Comp. Temp.: 80 °F	Configuration: SAFE-END TO ELBOW	Wo Location V-STAMP	Lo Location TDC						
Scan Dir.	Results NI NRI RI	Ind. No.	% DAC	L1	Length Lmax L2	Reference Measurement W1 Wmax W2	Sweep Position S1 Smax S2	Thickness 1" <-- C/L --> 1"	Notes:
8		NA							

Examination/Limitation Remarks: **EXAMINED FROM SAFE-END SIDE.**

** Code Coverage from all scans Bal 4-20-00*

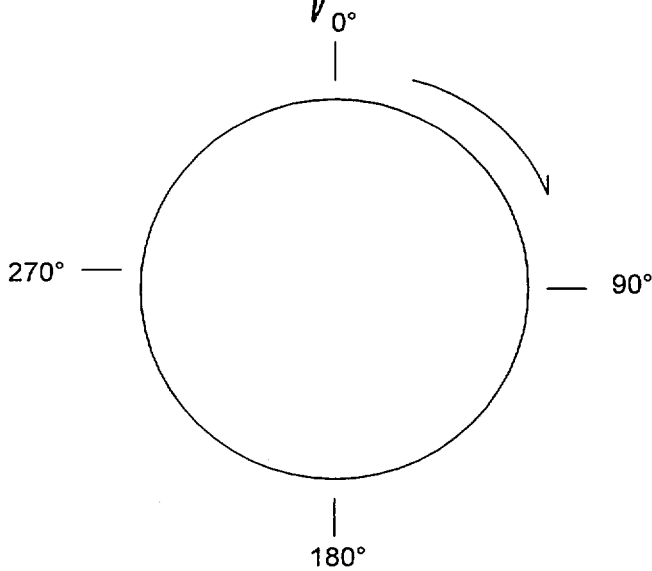
Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA to NA	2 - from NA to NA	From (5) NL to (2) .5"						
Primary Examiner	Level	Assistant Examiner				Level	Non-Technical Review				Date		
JOHN W. BELL	II	GEORGE A. MORINI				II	Terry Styron				4-20-00		
SNC NDE Level II/III Review	Date	Percentage of Code Coverage				ANII Review				Date			
<i>[Signature]</i>	4-20-00	*73.8 %				<i>[Signature]</i>				4/21/00			

Figure 1

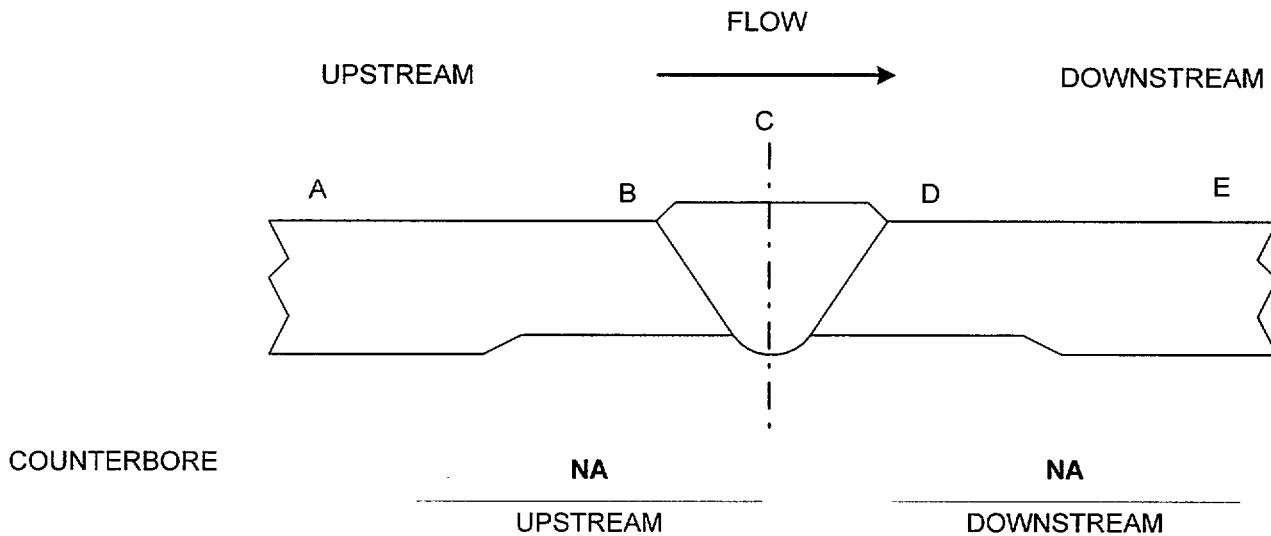
Ultrasonic Thickness and Contour Examination Record

Southern Nuclear Operating Company

Unit 1	Weld Number ALA1-4200-5R	Sheet No. S00F1U273	Date 4/20/2000
/Drawing Number ALA1-4200		Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer STAVELEY
Material Type <input type="checkbox"/> C/S <input checked="" type="checkbox"/> S/S Other	Calibration Standard/ Serial No. SS IIW / 86-4245	Model Number SONIC 136	Serial Number 136-896K
Examiner JOHN W. BELL <i>John W Bell</i>	SNT Level II	Transducer Manufacturer KBA	Type 0°
Examiner GEORGE A. MORINI <i>George A Morini</i>	SNT Level II	Serial Number B25613	Frequency 1.0 MHz



Location	0°	90°	180°	270°
A	4.2	4.0	4.1	4.1
B	3.3	3.3	3.4	3.3
C	3.0	3.0	3.0	3.0
D	3.2	3.2	3.2	3.2
E	3.4	3.4	3.4	3.4



REMARKS:

Level I/III Review <i>George A Morini</i>	Level III	Date 4-20-00	Non-Technical Review <i>Terry Stym</i>	Date 4-20-00
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Page 1 of 2

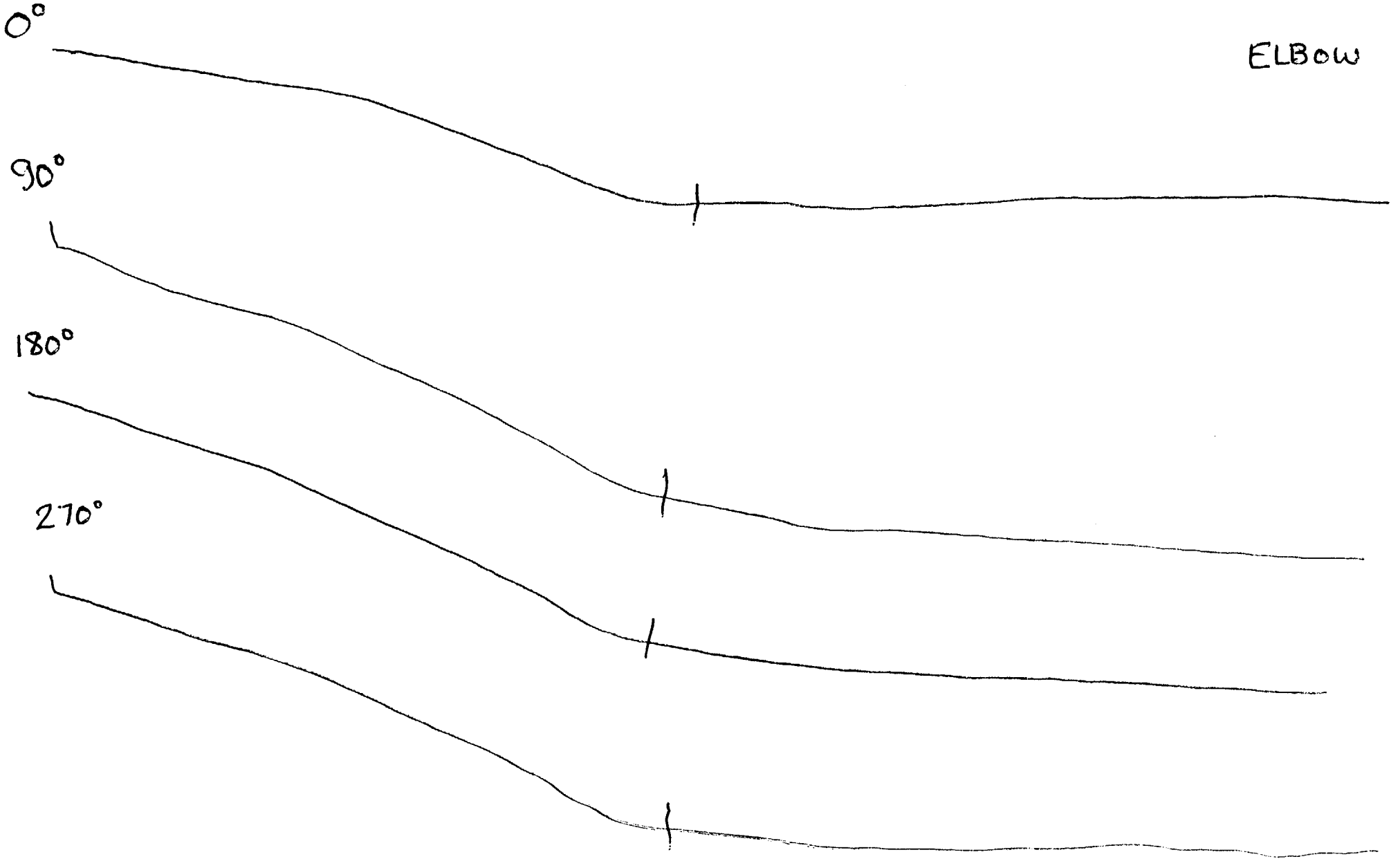
Revision 1

B COLD LEG

SHEET No. S00F1U273

SAFE END

ELBOW

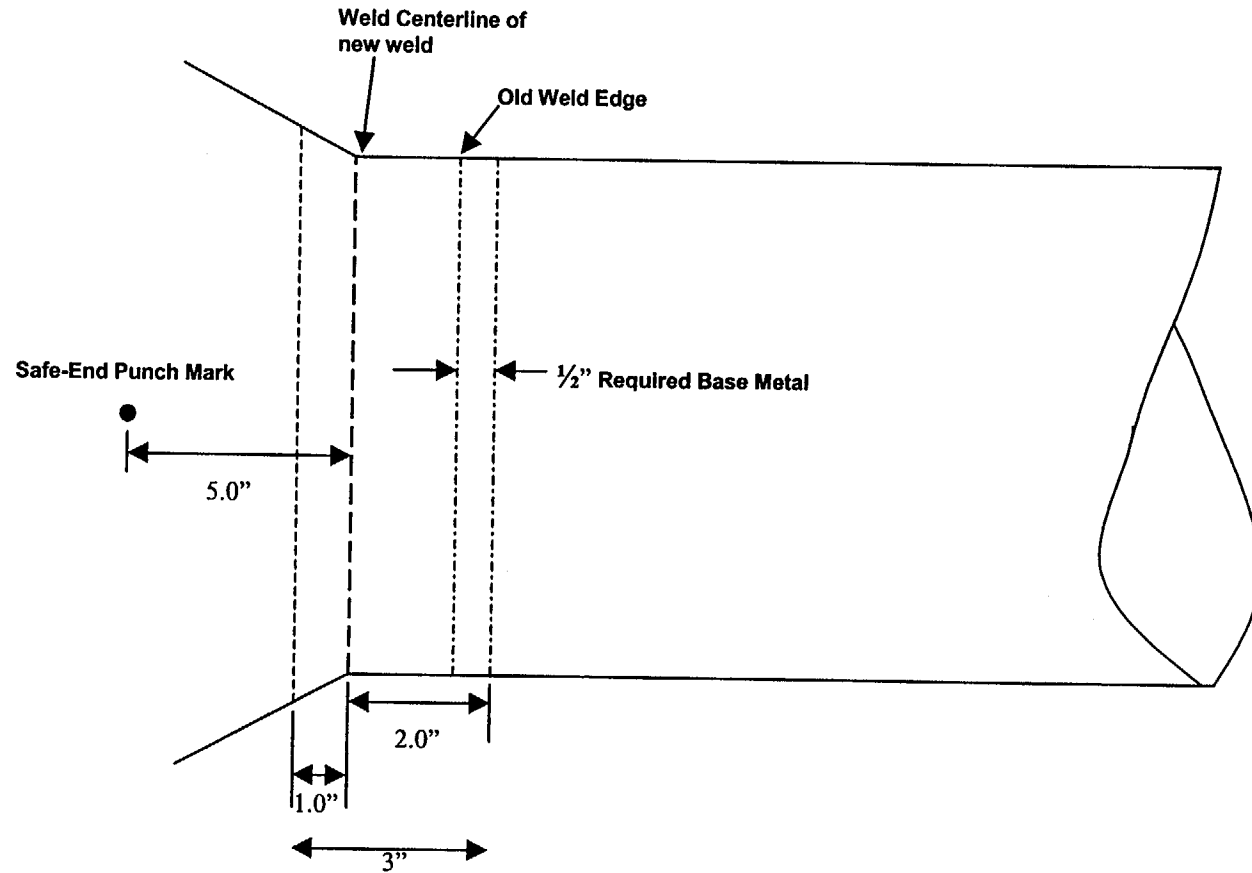




WPIR # P-RCC-060		NONDESTRUCTIVE EXAMINATION REPORT LIQUID PENETRANT EXAMINATION				REPORT # PT-00-152
JOB # 23734	JOB NAME FARLEY UNIT 1 SGR			SURFACE CONDITION <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AS WELDED		DATE 04-18-00
ISO / DWG # FSK-M-146		ITEM / COMP ID FW1-SG	TIME OF EXAM <input checked="" type="checkbox"/> N/A <input type="checkbox"/> PRE-PWHT <input type="checkbox"/> POST-PWHT		COMPONENT TEMP 80°F	
CODE / WELD CLASS ASME XI CL I		COMPONENT CONFIGURATION HOT LEG / EL TO SAFE-END		MATL TYPE <input type="checkbox"/> C/S <input checked="" type="checkbox"/> S/S <input type="checkbox"/> DISSIM METAL	PROCEDURE & REVISION PT (SR)-ASME III / XI REV. 2	
CLEANER/REMOVER MFR TYPE BATCH #		PENETRANT MAGNAFLUX SKL-SP 98J11K		DEVELOPER MAGNAFLUX SKD-S2 99G09K		
INDICATION CODE: NI=NO INDICATIONS NRI=NO RECORDABLE INDICATIONS C=CRACK ROUND=ROUNDED INDICATION LINEAR=LINEAR INDICATION						
PART OR WELD #	ACC (y)	REJ (y)	IND CODE	REMARKS		
FW1-SG	✓		NRI	None		
RCS "C"						
Hot leg						
SKETCH / COMMENTS						
AREA OF EXAMINATION PERFORMED IN ACCORDANCE WITH ATTACHED SNC DRAWING. AREA EXAMINED INCLUDED FW1-SG AND 3.0" INTO ELBOW FROM NOZZLE SIDE OF EXAMINATION AREA.						
STEAM GENERATOR 1C						
*FNP ISI # ALA 1-4300-4R (100% coverage on O.D.)						
M&TE NO. 198057						
CAL. DUE DATE: 07-26-00						
EXAMINER Russell Yancy (Russell Yancy)		LEVEL II		DATE 04-18-00		
REVIEW Beryl L. Loftis		LEVEL III		DATE 4-20-00		

Beryl L. Loftis SVC Level III 4-20-00
next review: Edward 4/22/00

Steam
Generator



PT Examination of 3" Width will cover all
LEGS.

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41

Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4300-4R** Date **4/19/00** Sheet No. **S00F1U253** Page **1** of **3**
 Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA/APR-33	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	D20267/D20268	Thickness	2.45"	1/4	30	1.5	.62	NA	NA	NA	NA
Ax. dB	58	Circ. dB	NA	Cal. Temp.	80	1/2	80	3.0	1.2	NA	NA	NA	NA
Ref.	58	Size	2 (1.0")	Cal. In	1225	3/4	45	4.5	1.85	NA	NA	NA	NA
Scan	64	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	ID	25	6.1	2.5	NA	NA	NA	NA
Reject	OFF	"A" Dimension	.82"	Cal. Out	1450	Calibration Remarks: NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC.							
Frequency	1.0 MHZ	Nominal Angle	45	Cal. Blk. No.	NA								
Mode	DUAL	Measured Angle	45	Ref. Blk. No.	NA								
Damping	500 Ohms	Cable Type	RG 174	Reflector	NA								
		Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: 77 °F Configuration: ELBOW TO SAFE-END

Wo Location V-STAMP													Lo Location TDC						
Scan Dir.	Results			Ind. No.	% DAC	L1	Length Lmax	L2	Reference Measurement			Sweep Position			Thickness		Notes:		
	NI	NRI	RI						W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	-- >1"		
5				NA															

Examination/Limitation Remarks: EXAMINED FROM ELBOW SIDE.

** Combined Code Coverage from all scans Jul 4-20-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)										
106.5	2.2	5 (L)	NL	2 (L)	NA	7 & 8 (W)	NA	5 - from	NL	to	.6"	2 - from	NA	to	NA	From (5)	NA	to	(2)	NA
Primary Examiner	Assistant Examiner			Level	Non-Technical Review			Level	Date											
JOHN W. BELL <i>John W Bell</i>	GEORGE A. MORINI <i>[Signature]</i>			II	Terry [Signature]			II	4-19-00											
SNC NDE Level II/III Review	Date	Percentage of Code Coverage		ANII Review		Date														
<i>[Signature]</i>	4-20-00	* 73.8 %		<i>[Signature]</i>		4/22/00														

Figure 1

Revision 7

WELD NO. ALA1-43004R

SHEET No. 500FLU253

FLOW

CL

53°

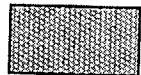
45°

SAFE-END

ELBOW

OLD WELD

EXAMINATION VOLUME



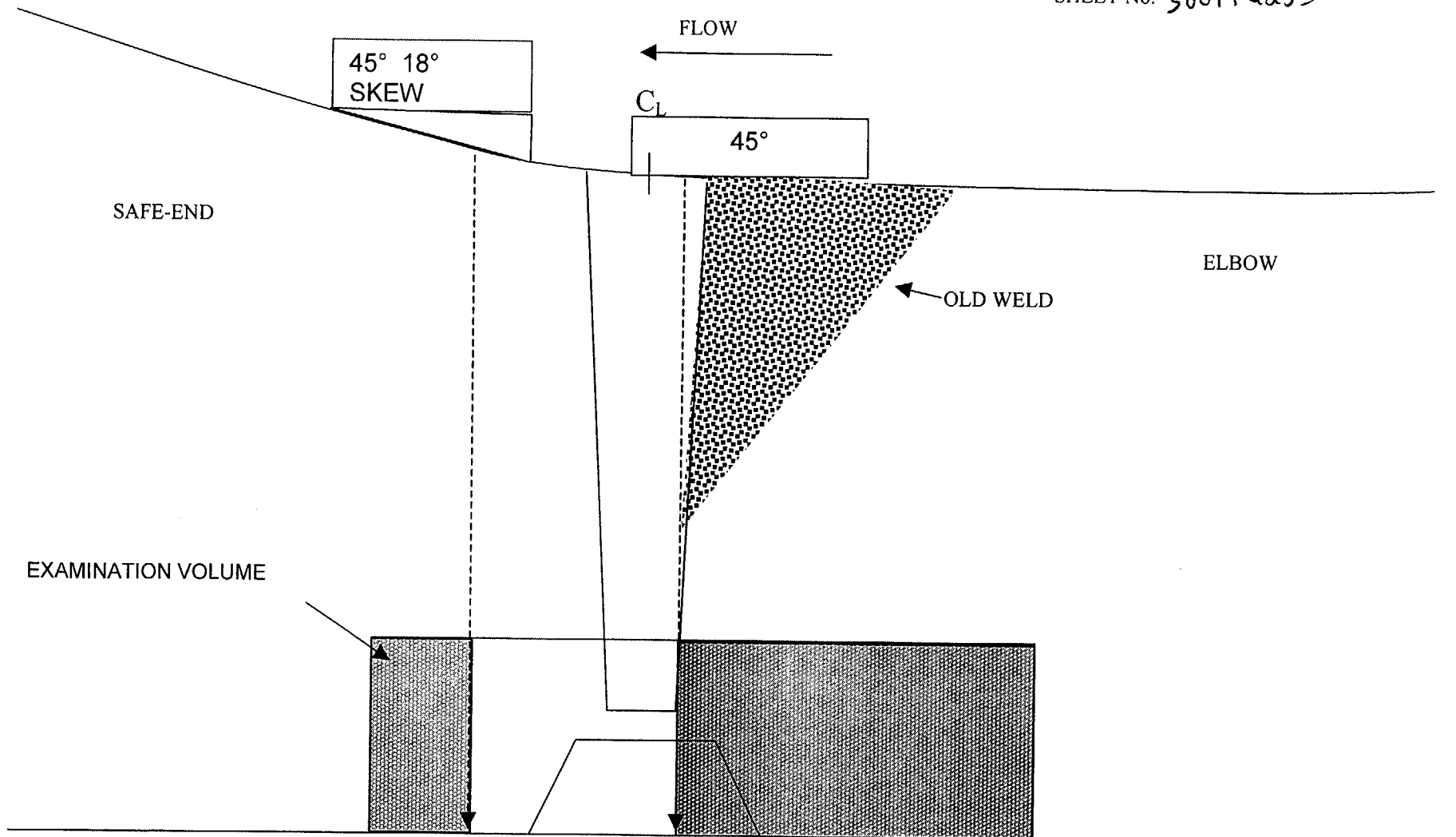
100% CODE
COVERAGE

TYPICAL
NTS



50% CODE
COVERAGE

AX CODE COVERAGE PLOT
AX. CODE COVERAGE OBTAINED = 83.2%
CIRC CODE COVERAGE OBTAINED = 64.5%
TOTAL CODE COVERAGE OBTAINED = 73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT



100% CODE COVERAGE

TYPICAL NTS



NO CODE COVERAGE

CIRC CODE COVERAGE PLOT
CIRC CODE COVERAGE OBTAINED =64.5%
AX. CODE COVERAGE OBTAINED =83.2%
TOTAL CODE COVERAGE OBTAINED =73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA1-4300-4R	Date 4/19/00	Sheet No. S00F1U254
Procedure/Rev./TCN FNP-0-NDE-100.41 / 2 / 2A	Couplant/Batch No. Ultragel II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000	Linearity Sheet No. S00F1L001

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	G14510 / G14511	Thickness	3.5"	NA	NA	NA	NA	1/4	40	1.5	.75
Ax. dB		Size	2 (1.0")	Cal. Temp.	70	NA	NA	NA	NA	1/2	80	3.0	1.8
Ref.	NA	Frequency/Mode	1.0 / L	Cal. In	1130	NA	NA	NA	NA	3/4	65	4.5	2.9
Scan	NA	"A" Dimension	.82"	Cal. Chk.	N/A	NA	NA	NA	NA	ID	25	6.2	3.9
Reject	OFF	Nominal Angle	45	Cal. Out	1455	NA	NA	NA	NA				
Frequency	1.0 MHZ	Measured Angle	45	Ref. Blk. No.	NA	Calibration Remarks: 2.6 dB ADDED TO RAISE ID NOTCH TO DAC, (68.6 + 2.6 = 71.2). 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.							
Mode	DUAL	Cable Type	RG 174	Reflector	NA								
Damping	500 Ohms	Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: 77 °F	Configuration: ELBOW TO SAFE-END	Wo Location V-STAMP	Lo Location TDC						
Scan Dir.	Results NI NRI RI	Ind. No.	% DAC	L1	Length Lmax L2	Reference Measurement W1 Wmax W2	Sweep Position S1 Smax S2	Thickness 1"<-- C/L -->1"	Notes:
7	●	NA							

Examination/Limitation Remarks: **EXAMINED FROM SAFE-END SIDE.** *Sel 4-20-00*

** Combined Code Coverage from all scans Sel 4-20-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA to NA	2 - from NA to NA	From (5) .9" to (2) NL						
Primary Examiner JOHN W. BELL <i>John W Bell</i>	Level II	Assistant Examiner GEORGE A. MORINI <i>[Signature]</i>	Level II	Non-Technical Review <i>Terry Stip</i>				Date 4-19-00					
SNC NDE Level II/III Review <i>[Signature]</i>	Date 4-20-00	Percentage of Code Coverage *73.8 %	ANII Review <i>[Signature]</i>				Date 4/22/00						

Figure 1

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

SNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit: **1** Sketch/Component No.: **ALA1-4300-4R** Date: **4/19/00** Sheet No.: **S00F1U250** Page **1** of **1**

Procedure/Rev./TCN: **FNF-0-NDE-100.41 / 2 / 2A** Couplant/Batch No.: **Ultragel II / 00125** Thermometer SN/Cal Due Date: **38193 / 8/27/2000** Linearity Sheet No.: **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	H12393/H12394	Thickness	3.5"	NA	NA	NA	NA	1/4	40	1.5	.75
Ax. dB		Size	2 (1.0")	Cal. Temp.	70	NA	NA	NA	NA	1/2	80	3.0	1.8
Ref.	NA	Frequency/Mode	1.0 / L	Cal. In	1145	NA	NA	NA	NA	3/4	65	4.5	2.9
Scan	NA	"A" Dimension	.82"	Cal. Chk.	N/A	NA	NA	NA	NA	ID	20	6.2	3.9
Reject	OFF	Nominal Angle	45	Cal. Out	1505	NA	NA	NA	NA				
Frequency	1.0 MHZ	Measured Angle	45	Ref. Blk. No.	NA	Calibration Remarks: NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC. 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.							
Mode	DUAL	Cable Type	RG 174	Reflector	NA								
Damping	500 Ohms	Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: **77** °F Configuration: **ELBOW TO SAFE-END** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<-- C/L -->1"	
8				NA												

Examination/Limitation Remarks:

EXAMINED FORM SAFE-END SIDE.

** Combined Code Coverage from all scans* **Std 420-00**

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA to NA	2 - from NA to NA	From (5) .9" to (2) NL						
Primary Examiner	Level	Assistant Examiner				Level	Non-Technical Review				Date		
JOHN W. BELL <i>John W Bell</i>	II	GEORGE A. MORINI <i>[Signature]</i>				II	<i>Terry Steyer</i>				4-19-00		
SNC NDE Level II/III Review	Date	Percentage of Code Coverage				ANII Review				Date			
<i>[Signature]</i>	4/20/00	* 73.8 %				<i>[Signature]</i>				4/22/00			

Figure 1

FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

SHARED

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA1-4300-4R	Date 4/19/00	Sheet No. S00F1U251	Page / of /
Procedure/Rev./TCN FNP-0-NDE-100.41 / 2 / 2A	Couplant/Batch No. Ultragel II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000	Linearity Sheet No. S00F1L001	

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	N/A	Cal. Blk. No.	ALA/APR-33	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	008NXR/008NXV	Thickness	2.45"	NA	NA	NA	NA	1/4	30	1.5	.65
Ax. dB		Size	2 (1.0")	Cal. Temp.	80	NA	NA	NA	NA	1/2	80	3.0	1.3
Ref.	NA	Frequency/Mode	1.0 / L	Cal. In	1228	NA	NA	NA	NA	3/4	50	4.5	1.9
Scan	NA	"A" Dimension	.82"	Cal. Chk.	N/A	NA	NA	NA	NA	ID	35	5.8	2.65
Reject	OFF	Nominal Angle	45	Cal. Out	1433	NA	NA	NA	NA				
Frequency	1.0 MHZ	Measured Angle	45	Ref. Blk. No.	NA	Calibration Remarks: NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.							
Mode	DUAL	Cable Type	RG 174	Reflector	NA								
Damping	500 Ohms	Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: 77 °F	Configuration: ELBOW TO SAFE-END	Wo Location V-STAMP	Lo Location TDC						
Scan Dir.	Results NI NRI RI	Ind. No.	% DAC	L1	Length Lmax L2	Reference Measurement W1 Wmax W2	Sweep Position S1 Smax S2	Thickness 1" <-- C/L --> 1"	Notes:
7/8	●	NA							

Examination/Limitation Remarks:
EXAMINED FROM ELBOW SIDE.

** Combined Code Coverage from all scans Del 4-20-00*

Total Length of Weld 106.5	Crown Width 2.2	Total Length of Weld Examined 5 (L) NA 2 (L) NA 7 & 8 (W) NL			Extent of Perpendicular Scans (W) 5 - from NA to NA			Extent of Parallel Scans (L) 2 - from NA to NA		
Primary Examiner JOHN W. BELL	Level II	Assistant Examiner GEORGE A. MORINI	Level II	Non-Technical Review Terry Styer	Date 4-19-00					
SNC NDE Level III Review <i>David Lipton</i>	Date 4-20-00	Percentage of Code Coverage * 73.8 %	ANII Review <i>CG</i>	Date 4/22/00						

Figure 1

FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

SHARED

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4300-4R** Date **4/19/00** Sheet No. **S00F1U252** Page / of **2**
 Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	008NXT/008NXW	Thickness	3.5"	1/4	80	1.5	1.2	NA	NA	NA	NA
Ax. dB		Size	2 (1.0")	Cal. Temp.	70	1/2	70	3.0	1.95	NA	NA	NA	NA
Ref.	66	Frequency/Mode	1.0 / L	Cal. In	1115	3/4	40	4.5	2.95	NA	NA	NA	NA
Scan	72	"A" Dimension	.82"	Cal. Chk.	N/A	ID	15	6.0	4.2	NA	NA	NA	NA
Reject	OFF	Nominal Angle	53	Cal. Out	1450	Calibration Remarks: NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.							
Frequency	1.0 MHZ	Measured Angle	53	Ref. Blk. No.	NA								
Mode	DUAL	Cable Type	RG 174	Reflector	NA								
Damping	500 Ohms	Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: °F Configuration: **ELBOW TO SAFE-END** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	
2				NA												

Examination/Limitation Remarks:
EXAMINED FROM SAFE-END SIDE.
** Combined Code Coverage from all scans* **Hal 4-20-00**

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)			Extent of Parallel Scans (L)		
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NA	5 - from NA	to NA	2 - from NL	to .6"	From (5) NA	to (2) NA
Primary Examiner JOHN W. BELL <i>John W Bell</i>	Level II	Assistant Examiner GEORGE A. MORINI <i>George A Morini</i>	Level II	Non-Technical Review Terry Styer <i>Terry Styer</i>	Date 4-19-00					
SNC NDE Level II/III Review <i>Harold J. Lott</i>	Date 4-20-00	Percentage of Code Coverage *73.8 %	ANII Review <i>Edward</i>	Date 4/22/00						

Figure 1

April 19, 2000
ASME Code Coverage for Steam Generator Hot Leg /Cold Leg

The following list is the numeric values assigned based on the OD profile and contour taken from A Loop. One dimension is provided which includes the new narrow groove weld and a portion of the old existing weld. The drawing to be used has a thickness of 3.3". The inner 1/3t dimension to be used will be 1.1". The width is based on the toe of the ID weld from the safe end side to the toe of the old existing OD weld, which measures 2.1".

AXIAL SCANS

Code requires .25" on each side of the above described weld toes.

Code coverage = 2.6" (width) x 1.1" (height) = 2.86 sq. "

Scan from elbow side: no limitations, 2.86sq " / 2.86 sq. " = 100%

Scan from safe end side: limited due to taper / apex, two areas,

Box 1.35" x 1.1" = 1.485 sq. "

Triangle $\frac{1}{2} x b x h = .5 x .75" x 1.1" = .413$ sq. "

Total = 1.898 sq. " / 2.86 sq. " = 66.3%

CIRC. SCANS

Code requires .5" on each side of the above described weld toes.

Code coverage = 3.1" (width) x 1.1" (height) = 3.41 sq. "

Scan from safe end CW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

Scan from safe end CCW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CCW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

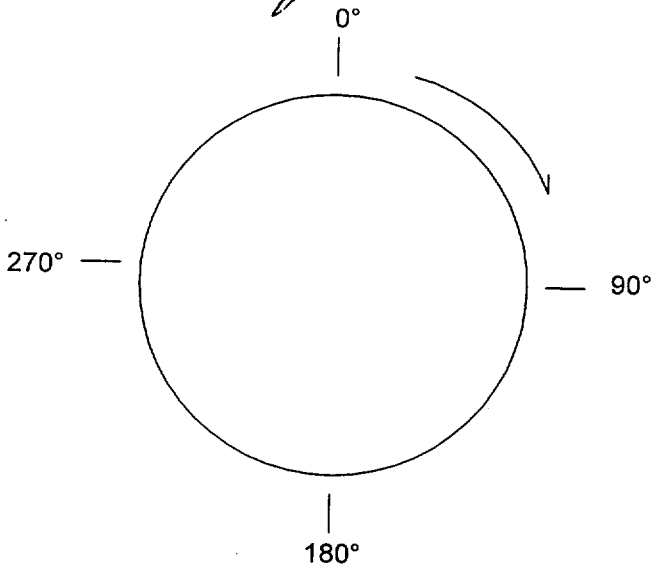
Total ASME Code Coverage for the Weld is 73.8%. This is based on adding all four required scans, 100% + 66.3% + 64.5% + 64.5% = 295.3%
 $295.3/4 = 73.8\%$

NOTE: The coverage for the CW / CCW scans was not based on the centerline of the two transducers, but the centerline of one of the dual elements. ASME Section XI, Appendix III-2410(a) requires a 50% overlap between scans. Smaller transducers were tried to obtain maximum code coverage. Due to the metallurgical grain structure of the materials, a dual, 1.0 MHz, 1" diameter, transducer with curved shoes was used. On the safe end, wedges with an 18-degree tilt were used for the CW/CCW scans. The maximum area that could be scanned was examined. Supplement 4, (a) (1) of ASME Section XI requires a 35-degree or greater for the beam angle at the ID surface when using refracted Longitudinal waves. Only one direction coverage of the axial scan on the elbow side was obtained. RL waves are used with a 4/8-node calibration. Shear waves to provide a 6/8 vee-path is not practical for the cast stainless steel examination on the elbow. Thus we were limited to 66.3% from this direction.

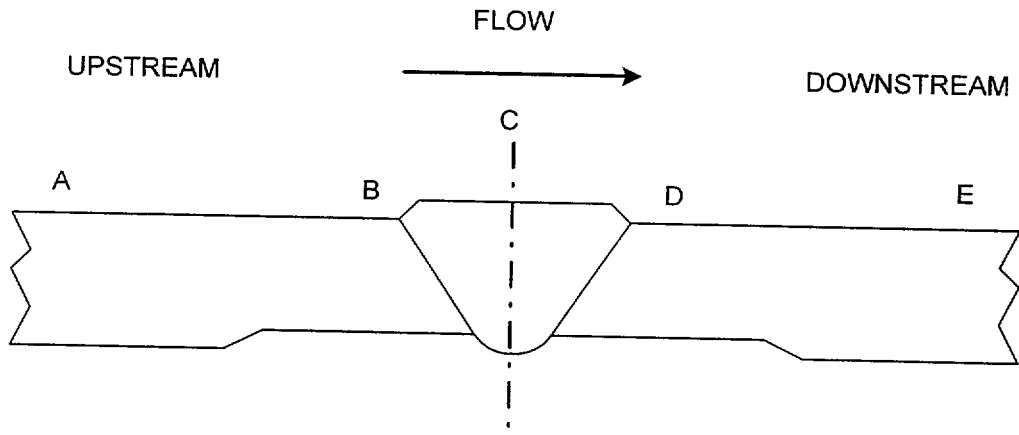
Ultrasonic Thickness and Contour Examination Record

FNP-0-NDE-100.35
Southern Nuclear Operating Company

Unit 1	Weld Number ALA1-4300-4R	Sheet No. S00F1U255	Date 4/19/2000
0/Drawing Number ALA1-4300	Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer STAVELEY	
Material Type <input type="checkbox"/> C/S <input checked="" type="checkbox"/> S/S Other	Calibration Standard/ Serial No. SS IIW / 86-4245	Model Number SONIC 136	Serial Number 136-898K
Examiner JOHN W. BELL <i>John W Bell</i>	SNT Level II	Transducer Manufacturer KBA	Type <i>NA</i> Size .75
Examiner GEORGE A. MORINI <i>GA Morini</i>	SNT Level II	Serial Number B25613	Frequency 1.0 MHz



Location	0°	90°	180°	270°
A	3.1	2.8	3.2	3.3
B	3.0	2.9	3.0	3.1
C	3.0	3.0	3.0	3.0
D	3.2	3.3	3.3	3.3
E	4.0	4.0	4.0	4.0



COUNTERBORE

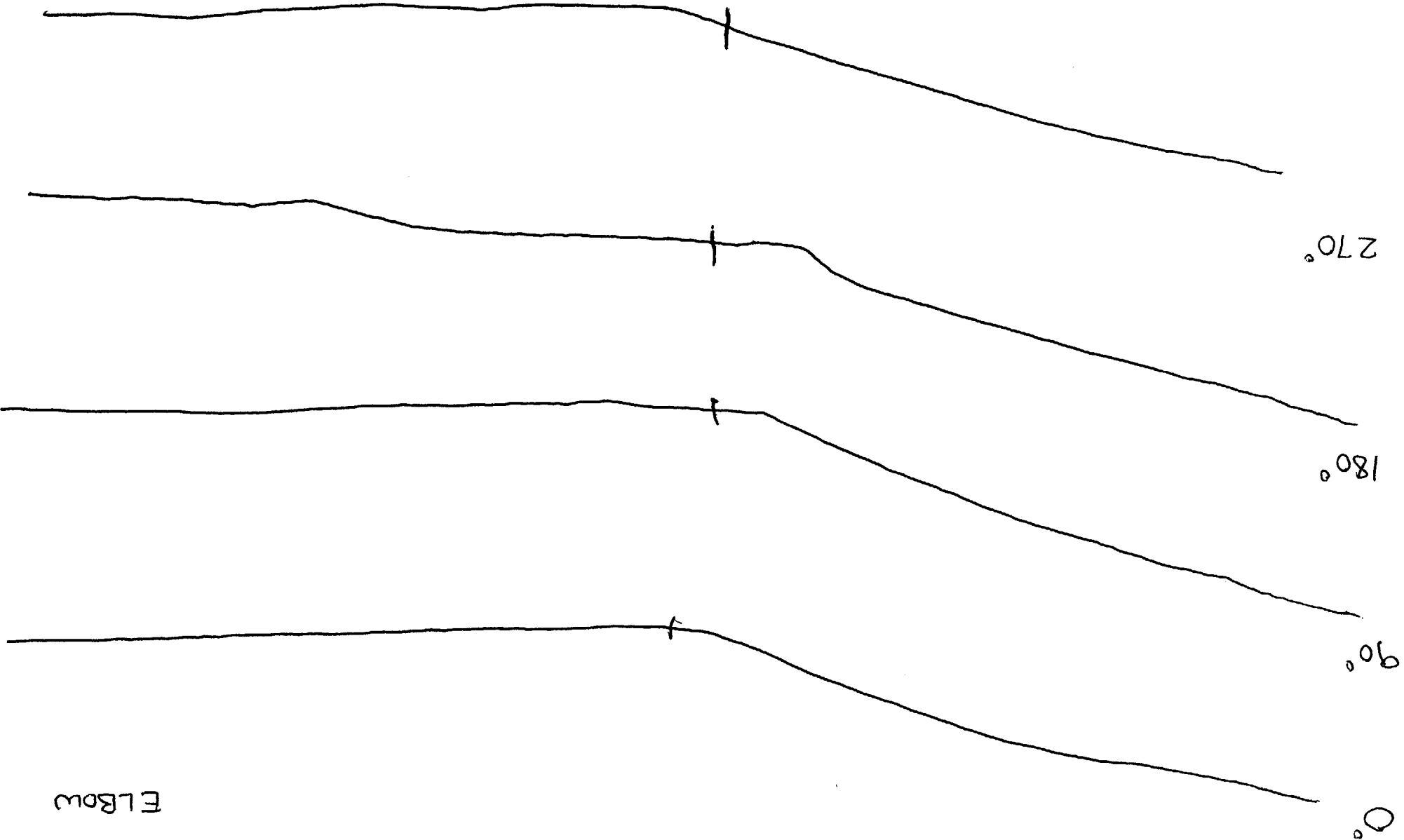
NA
UPSTREAM

NA
DOWNSTREAM

REMARKS:

E Level II/III Review <i>David L. Griffiths</i>	Level III	Date 4-20-00	Non-Technical Review <i>Terry Styer</i>	Date 4-19-00
--	---------------------	------------------------	--	------------------------

Page 2 of 2



SAFE END

C HOT LEG
SHEET No. 500FUA255

ELBOW



WPIR # P-RCC-060	NONDESTRUCTIVE EXAMINATION REPORT LIQUID PENETRANT EXAMINATION	REPORT # PT-00-149
---------------------	---	-----------------------

JOB # 23734	JOB NAME FARLEY UNIT 1 SGR	SURFACE CONDITION <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AS WELDED	DATE 4-17-00
----------------	-------------------------------	---	-----------------

ISO / DWG # FSK-M-146	ITEM / COMP ID FW2-SG	TIME OF EXAM <input checked="" type="checkbox"/> N/A <input type="checkbox"/> PRE-PWHT <input type="checkbox"/> POST-PWHT	COMPONENT TEMP 79°
--------------------------	--------------------------	---	-----------------------

CODE / WELD CLASS ASME XI CL I	COMPONENT CONFIGURATION COLD LEG / SAFE-END TO EL	MATL TYPE <input type="checkbox"/> C/S <input checked="" type="checkbox"/> S/S <input type="checkbox"/> DISSIM METAL	PROCEDURE & REVISION PT (SR)-ASME III / XI REV. 2
-----------------------------------	--	--	--

	CLEANER/REMOVER	PENETRANT	DEVELOPER
MFR	MAGNAFLUX	MAGNAFLUX	MAGNAFLUX
TYPE	SKC-S	SKL-SP	SKD-S2
BATCH #	99M01K	98J11K	99G09K

INDICATION CODE: NI=NO INDICATIONS NRI=NO RECORDABLE INDICATIONS C=CRACK
 ROUND=ROUNDED INDICATION LINEAR=LINEAR INDICATION

PART OR WELD #	ACC (√)	REJ (√)	IND CODE	REMARKS
FW2-SG FINAL	X		NI	NONE

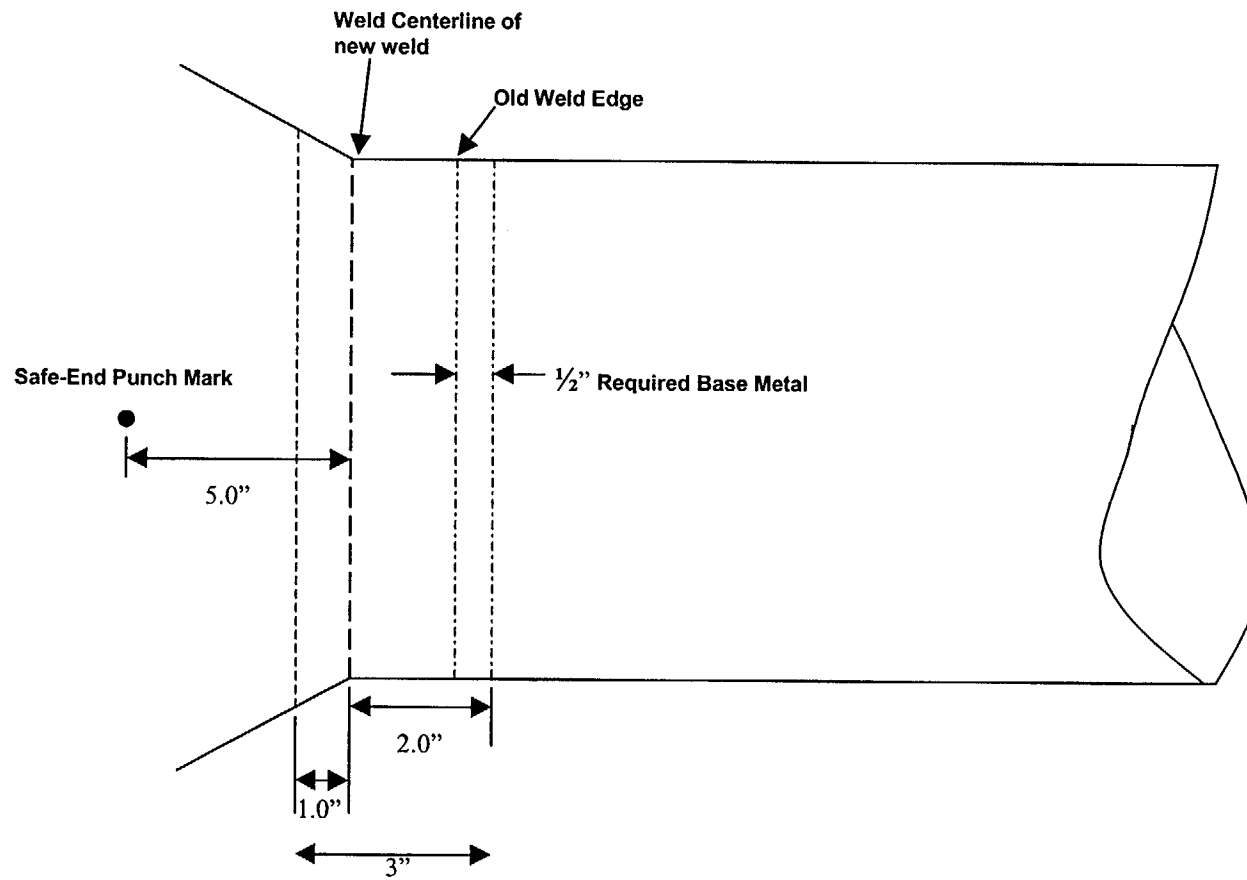
SKETCH / COMMENTS
 AREA OF EXAMINATION PERFORMED IN ACCORDANCE WITH ATTACHED SNC DRAWING. AREA EXAMINED INCLUDED FW2-SG AND 3.0" INTO ELBOW FROM NOZZLE SIDE OF EXAMINATION AREA.
 STEAM GENERATOR 1C
 FNP ISI # ALA1-4300-5R

 M&TE NO. 198060
 CAL. DUE DATE: 7-26-00

EXAMINER <i>Carl Z. Williams</i>	LEVEL <i>II</i>	DATE 4-17-00
REVIEW <i>Al Nagel</i>	LEVEL <i>III</i>	DATE 4-20-00

Samuel L. Lofler SVC Level III 4-20-00 ONI REVIEW: C. G. Ward 4/22/00

Steam
Generator



PT Examination of 3" Width will cover all
LEGS.

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA1-4300-5R	Date 4/19/00	Sheet No. S00F1U256	Page 1 of 3
Procedure/Rev./TCN FNP-0-NDE-100.41 / 2 / 2A	Couplant/Batch No. Ultragel II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000	Linearity Sheet No. S00F1L001	

Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA/APR-33	Axial Scan Calibration				Circ. Scan Calibration			
						Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	D20267/D20268	Thickness	2.45"								
Ax. dB	58	Circ. dB	NA	Cal. Temp.	80								
Ref.	58		NA	Cal. In	1225	1/4	30	1.5	.62	NA	NA	NA	NA
Scan	64		NA	Cal. Chk.	N/A	1/2	80	3.0	1.2	NA	NA	NA	NA
Reject	OFF		NA	Cal. Out	1430	3/4	45	4.5	1.85	NA	NA	NA	NA
Frequency	1.0 MHZ		NA	Cal. Blk. No.	NA	ID	25	6.1	2.5	NA	NA	NA	NA
Mode	DUAL		NA	Ref. Blk. No.	NA	Calibration Remarks: NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC.							
Damping	500 Ohms		NA	Reflector	NA								
				Amplitude/Sweep	NA								

Comp. Temp.: 77 °F Configuration: **SAFE-END TO NOZZLE** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position		Thickness		Notes:
	NI	NRI	RI			L1	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	
2					N/A										

Examination/Limitation Remarks:

EXAMINED FROM ELBOW SIDE.

** Combined Code Coverage from all scans del 4-20-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NA	2 (L) NL	7 & 8 (W) NA	5 - from NA to NA	2 - from NL to .9"	From (5) NA to (2) NA						
Primary Examiner	Level		Assistant Examiner		Level		Non-Technical Review		Date				
JOHN W. BELL	II		GEORGE A. MORINI		II		Terry Styen		4-19-00				
SNC NDE Level II/III Review	Date		Percentage of Code Coverage		ANII Review		Date						
<i>Donald J. Jettles</i>	4-20-00		* 73.8 %		<i>19/00</i>		4/22/00						

Figure 1

FLOW →

53°

C_L

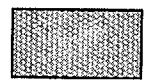
45°

SAFE-END

ELBOW

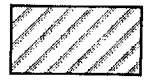
← OLD WELD

EXAMINATION VOLUME



100% CODE COVERAGE

TYPICAL NTS



50% CODE COVERAGE

AX CODE COVERAGE PLOT
AX. CODE COVERAGE OBTAINED = 83.2%
CIRC CODE COVERAGE OBTAINED = 64.5%
TOTAL CODE COVERAGE OBTAINED = 73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT

FLOW

CL

45° 18°
SKEW

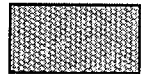
45°

SAFE-END

ELBOW

← OLD WELD

EXAMINATION VOLUME



100% CODE
COVERAGE

TYPICAL
NTS



NO CODE
COVERAGE

CIRC CODE COVERAGE PLOT
CIRC CODE COVERAGE OBTAINED =64.5%
AX. CODE COVERAGE OBTAINED =83.2%
TOTAL CODE COVERAGE OBTAINED =73.8%
SEE PAGE 3 OF 3 FOR CIRC CODE COVERAGE PLOT

FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

SHARED

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4300-5R** Date **4/19/00** Sheet No. **S00F1U257**
 Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001** Page **1** of **2**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	008NXT/008NXW	Thickness	3.5"	1/4	80	1.5	1.2	NA	NA	NA	NA
Ax. dB	66	Circ. dB	NA	Cal. Temp.	70	1/2	70	3.0	1.95	NA	NA	NA	NA
Ref.	66	Size	2 (1.0")	Cal. In	1115	3/4	40	4.5	2.95	NA	NA	NA	NA
Scan	72	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	ID	15	6.0	4.2	NA	NA	NA	NA
Reject	OFF	"A" Dimension	.82"	Cal. Out	1450	Calibration Remarks: NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.							
Frequency	1.0 MHZ	Nominal Angle	53	Ref. Blk. No.	NA								
Mode	DUAL	Measured Angle	53	Reflector	NA								
Damping	500 Ohms	Cable Type	RG 174	Amplitude/Sweep	NA								
		Cable Length	15"										

Comp. Temp.: **77** °F Configuration: **SAFE-END TO NOZZLE** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	
5				NA												

Examination/Limitation Remarks:

EXAMINED FROM SAFE-END SIDE.

** Combined Code Coverage from all scans Dal 4-20-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NL	2 (L) NA	7 & 8 (W) NA	5 - from NL to .9"	2 - from NA to NA	From (5) NA to (2) NA						
Primary Examiner	Level	Assistant Examiner				Level	Non-Technical Review				Date		
JOHN W. BELL	II	GEORGE A. MORINI				II	Terry Steyer				4-19-00		
SNC NDE Level II/III Review	Date	Percentage of Code Coverage				ANII Review				Date			
<i>Samuel J. Jiffles</i>	4-20-00	* 73.8 %				<i>CG Wood</i>				4/22/00			

Figure 1

April 19, 2000
ASME Code Coverage for Steam Generator Hot Leg /Cold Leg

The following list is the numeric values assigned based on the OD profile and contour taken from A Loop. One dimension is provided which includes the new narrow groove weld and a portion of the old existing weld. The drawing to be used has a thickness of 3.3". The inner 1/3t dimension to be used will be 1.1". The width is based on the toe of the ID weld from the safe end side to the toe of the old existing OD weld, which measures 2.1".

AXIAL SCANS

Code requires .25" on each side of the above described weld toes.

Code coverage = 2.6" (width) x 1.1" (height) = 2.86 sq. "

Scan from elbow side: no limitations, 2.86sq " / 2.86 sq. " = 100%

Scan from safe end side: limited due to taper / apex, two areas,

Box 1.35" x 1.1" = 1.485 sq. "

Triangle $\frac{1}{2} \times b \times h = .5 \times .75" \times 1.1" = .413 \text{ sq. "}$

Total = 1.898 sq. " / 2.86 sq. " = 66.3%

CIRC. SCANS

Code requires .5" on each side of the above described weld toes.

Code coverage = 3.1" (width) x 1.1" (height) = 3.41 sq. "

Scan from safe end CW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

Scan from safe end CCW direction: .35" (width) x 1.1" (height) = .38 sq. "

Scan from elbow side CCW direction: 1.65 " (width) x 1.1" (height) = 1.815 sq. "

Total = 2.2 sq. " / 3.41 sq. " = 64.5%

Total ASME Code Coverage for the Weld is 73.8%. This is based on adding all four required scans, 100% + 66.3% + 64.5% + 64.5% = 295.3%
295.3/4 = 73.8%

NOTE: The coverage for the CW / CCW scans was not based on the centerline of the two transducers, but the centerline of one of the dual elements. ASME Section XI, Appendix III-2410(a) requires a 50% overlap between scans. Smaller transducers were tried to obtain maximum code coverage. Due to the metallurgical grain structure of the materials, a dual, 1.0 MHz, 1" diameter, transducer with curved shoes was used. On the safe end, wedges with an 18-degree tilt were used for the CW/CCW scans. The maximum area that could be scanned was examined. Supplement 4, (a) (1) of ASME Section XI requires a 35-degree or greater for the beam angle at the ID surface when using refracted Longitudinal waves. Only one direction coverage of the axial scan on the elbow side was obtained. RL waves are used with a 4/8-node calibration. Shear waves to provide a 6/8 vee-path is not practical for the cast stainless steel examination on the elbow. Thus we were limited to 66.3% from this direction.

FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

SHARED

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4300-5R** Date **4/19/00** Sheet No. **S00F1U258** Page **1** of **1**
 Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA/APR-33	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	008NXR/008NXV	Thickness	2.45"	NA	NA	NA	NA	1/4	30	1.5	.65
Ax. dB		Circ. dB		Cal. Temp.	80	NA	NA	NA	NA	1/2	80	3.0	1.3
Ref.	NA	Size	2 (1.0")	Cal. In	1228	NA	NA	NA	NA	3/4	50	4.5	1.9
Scan	NA	Frequency/Mode	1.0 / L	Cal. Chk.	N/A	NA	NA	NA	NA	ID	35	5.8	2.65
Reject	OFF	"A" Dimension	.82"	Cal. Out	1433	Calibration Remarks: NO ADDITIONAL dB NEEDED TO RAISE NOTCH TO DAC.							
Frequency	1.0 MHZ	Nominal Angle	45	Cal. Ref. No.	NA								
Mode	DUAL	Measured Angle	45	Reflector	NA								
Damping	500 Ohms	Cable Type	RG 174	Amplitude/Sweep	NA								
		Cable Length	15"										

Comp. Temp.: 77 °F Configuration: **SAFE-END TO NOZZLE** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	
7/8				NA												

Examination/Limitation Remarks:

EXAMINED FROM ELBOW SIDE.

** Combined Code Coverage from all scans Jul 4-20-00*

Total Length of Weld	Crown Width	Total Length of Weld Examined		Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NA	5 - from NA	to NA	2 - from NA	to NA	From (5) .2"	to (2) NL	
Primary Examiner	Level	Assistant Examiner		Level	Non-Technical Review		Date				
JOHN W. BELL <i>John W Bell</i>	II	GEORGE A. MORINI <i>George A Morini</i>		II	Terry Styron <i>Terry Styron</i>		4-19-00				
SNC NDE Level II/III Review	Date	Percentage of Code Coverage		ANI Review		Date					
<i>David J. [Signature]</i>	4-20-00	* 73.8 %		<i>Terry Styron</i>		4/22/00					

Figure 1

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA1-4300-5R	Date 4/19/00	Sheet No. S00F1U260
Procedure/Rev./TCN FNP-0-NDE-100.41 / 2 / 2A	Couplant/Batch No. Ultragel II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000	Linearity Sheet No. S00F1L001

Page / of /

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-52	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-896K	Serial No.	G14510 / G14511	Thickness	3.5"	NA	NA	NA	NA	1/4	40	1.5	.75
Ax. dB		Size	2 (1.0")	Cal. Temp.	70	NA	NA	NA	NA	1/2	80	3.0	1.8
Ref.	NA	Frequency/Mode	1.0 / L	Cal. In	1130	NA	NA	NA	NA	3/4	65	4.5	2.9
Scan	NA	"A" Dimension	.82"	Cal. Chk.	N/A	NA	NA	NA	NA	ID	25	6.2	3.9
Reject	OFF	Nominal Angle	45	Cal. Out	1455	NA	NA	NA	NA				
Frequency	1.0 MHZ	Measured Angle	45	Ref. Blk. No.	NA	Calibration Remarks: 2.6 dB ADDED TO RAISE ID NOTCH TO DAC, (68.6 + 2.6 = 71.2). 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.							
Mode	DUAL	Cable Type	RG 174	Reflector	NA								
Damping	500 Ohms	Cable Length	15"	Amplitude/Sweep	NA								

Comp. Temp.: 77 °F	Configuration: SAFE-END TO NOZZLE	Wo Location V-STAMP	Lo Location TDC						
Scan Dir.	Results NI NRI RI	Ind. No.	% DAC	L1	Length Lmax L2	Reference Measurement W1 Wmax W2	Sweep Position S1 Smax S2	Thickness 1" <-- C/L --> 1"	Notes:
8		NA							

Examination/Limitation Remarks:
EXAMINED FROM SAFE-END SIDE.

** Combined Code Coverage from all scans*

Total Length of Weld 106.5	Crown Width 2.2	Total Length of Weld Examined 5 (L) NA 2 (L) NA 7 & 8 (W) NL	Extent of Perpendicular Scans (W) 5 - from NA to NA 2 - from NA to NA	Extent of Parallel Scans (L) From (5) NL to (2) .5"
Primary Examiner JOHN W. BELL	Level II	Assistant Examiner GEORGE A. MORINI	Level II	Non-Technical Review Terry Styer
SNC NDE Level II/III Review <i>Handwritten Signature</i>	Date 4-10-00	Percentage of Code Coverage *73.8 %	Date 4-19-00	Date 4/22/00

Figure 1

FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

SHARED

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4300-5R** Date **4/19/00** Sheet No. **S00F1U259**
 Procedure/Rev./TCN **FNP-0-NDE-100.41 / 2 / 2A** Couplant/Batch No. **Ultragel II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L001** Page / of /

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	Serial No.	Transducer Mfg.	Serial No.	Cal. Blk. No.	Thickness	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
STAVELEY	136-896K	KBA	H12393/H12394	ALA-52	3.5"								
Ax. dB	Circ. dB	Size	Frequency/Mode	Cal. Temp.	Cal. In	NA	NA	NA	NA	1/4	40	1.5	.75
NA	70.4	2 (1.0")	1.0 / L	70	1145	NA	NA	NA	NA	1/2	80	3.0	1.8
Ref.		"A" Dimension	Nominal Angle	Cal. Chk.	Cal. Out	NA	NA	NA	NA	3/4	65	4.5	2.9
NA	76.4	.82"	45	N/A	1505	NA	NA	NA	NA	ID	20	6.2	3.9
Scan		Measured Angle	Ref. Blk. No.	Cal. Out	Ref. Blk. No.	NA	NA	NA	NA				
NA	76.4	45	NA	1505	NA	NA	NA	NA	NA				
Reject		Cable Type	Reflector	Ref. Blk. No.	Reflector	NA	NA	NA	NA				
OFF		RG 174	NA	NA	NA	NA	NA	NA	NA				
Frequency		Cable Length	Amplitude/Sweep	Amplitude/Sweep	Amplitude/Sweep	NA	NA	NA	NA				
1.0 MHZ		15"	NA	NA	NA	NA	NA	NA	NA				
Mode													
DUAL													
Damping													
500 Ohms													

Calibration Remarks:
NO ADDITIONAL DB NEEDED TO RAISE ID NOTCH TO DAC. 18° TILT WEDGE USED FOR EXIMINATION, CALIBRATED WITH NORMAL WEDGES.

Comp. Temp.: 77 °F Configuration: **SAFE-END TO NOZZLE** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	-->1"	
7				NA													

Examination/Limitation Remarks:
EXAMINED FROM SAFE-END SIDE.
** Combined Code Coverage from all scans Dal 4-20-00*

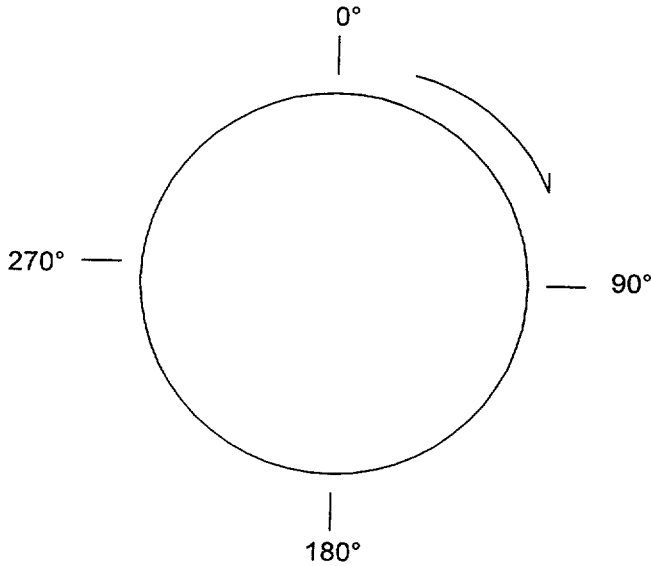
Total Length of Weld	Crown Width	Total Length of Weld Examined		Extent of Perpendicular Scans (W)		Extent of Parallel Scans (L)	
106.5	2.2	5 (L) NA	2 (L) NA	7 & 8 (W) NL	5 - from NA to NA	2 - from NA to NA	From (5) NL to (2) .5"
Primary Examiner	Level	Assistant Examiner	Level	Non-Technical Review	Date		
JOHN W. BELL	II	GEORGE A. MORINI	II	Terry Stygen	4-19-00		
SNC NDE Level II/III Review	Date	Percentage of Code Coverage	ANII Review		Date		
<i>Harold Poffen</i>	4-20-00	*73.8 %	CG Ward		4/22/00		

Figure 1

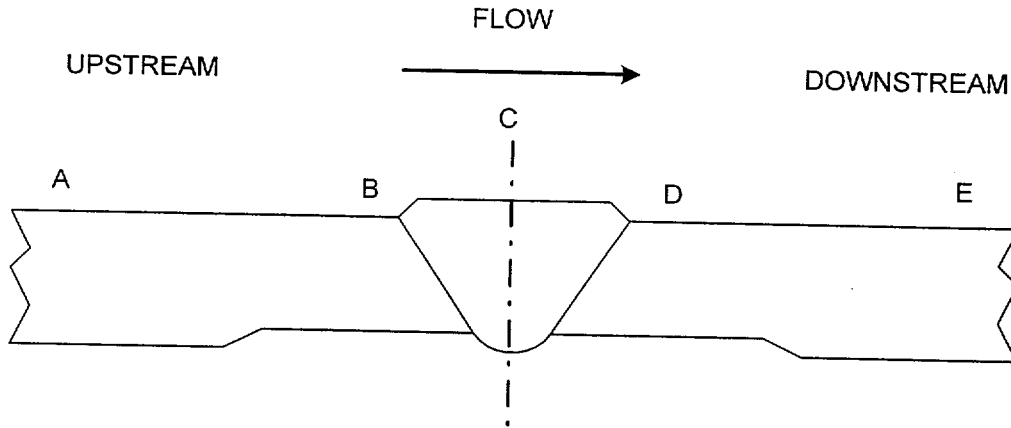
Ultrasonic Thickness and Contour Examination Record

FNP-0-NDE-100.35
Southern Nuclear Operating Company

Unit 1	Weld Number ALA1-4300-5R	Sheet No. S00F1U261	Date 4/19/2000
ISO/Drawing Number ALA1-4300	Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer STAVELEY	
Material Type <input type="checkbox"/> C/S <input checked="" type="checkbox"/> S/S Other	Calibration Standard/ Serial No. SS IIW / 86-4245	Model Number SONIC 136	Serial Number 136-896K
Examiner JOHN W. BELL <i>John W Bell</i>	SNT Level II	Transducer Manufacturer KBA	Type 0°
Examiner GEORGE A. MORINI <i>George A Morini</i>	SNT Level II	Serial Number B25613	Frequency 1.0 MHz



Location	0°	90°	180°	270°
A	4.0	4.0	4.0	4.0
B	3.4	3.4	3.4	3.4
C	3.2	3.2	3.2	3.2
D	3.2	3.2	3.2	3.2
E	3.4	3.4	3.4	3.4



COUNTERBORE

NA

NA

UPSTREAM

DOWNSTREAM

REMARKS:

JE Level II/III Review

Samuel Lopez

Level

III

Date

4-20-00

Non-Technical Review

Terry Styer

Date

4-15-00

Page 1 of 2

Revision 1

SAFE END

0°

ELBOW

90°

180°

270°

ALA
SUMMARY OF RECORDED INDICATIONS
2000 UNIT 1 RF-16

SKETCH	ID	ITEM DESCRIPTION	INDICATION DESCRIPTION	DISPOSITION			IER NUMBER
				ACCEPT	REPAIR	MONITOR	
ALA2-4500	28	Tee-to-Pipe Weld Main Steam System	Geometry	X			001
ALA2-4101	12BC	Header-to-Branch Weld Main Steam System	Spot Indication	X			002
ALA2-4101	13BC	Header-to-Branch Weld Main Steam System	Spot Indication	X			003
ALA2-4101	14BC	Header-to-Branch Weld Main Steam System	Spot Indication	X			004
ALA2-3500	3	Hx Nozzle Reinforcement RHR System	Surface Indication	X			005
ALA2-4500	1	Cap-to-Tee Weld Main Steam System	Geometry	X			006
ALA2-4500	2	Cap-to-Tee Weld Main Steam System	Geometry	X			007
Various	N/A	Examination of Class 1 Bolted Connections	Evidence of Leakage and Boron Accumulation		X		008
ALA2-4101	2	Pipe-to-Elbow Main Steam System	Geometry	X			009
ALA2-4523	5	Elbow-to-Valve Safety Injection System	Rounded Indication	X			010
Various	N/A	Examination of Class 2 Bolted Connections	Evidence of Leakage and Boron Accumulation		X		011
ALA2-4500	2L1	Pipe Long Seam Main Steam System	Geometry	X			012
ALA1-4200	5R	Safe End-to-Elbow Reactor Coolant System	Geometry	X			013*
ALA2-4150	21R	Elbow-to-Reducer Main Feedwater System	Geometry	X			014*
ALA2-4150	22R	Nozzle-to-Reducer Main Feedwater System	Geometry/Slag Inclusion	X			015*
ALA2-4350	24R	Nozzle-to-Reducer Main Feedwater System	Geometry	X			016*
ALA2-4250	16R	Nozzle-to-Reducer Main Feedwater System	Geometry	X			017*
ALA1-4304	7	Valve-to-Pipe Safety Injection System	Scratches in Basemetal		X		4304-7**

*Steam Generator Replacement Preservice Examinations

**Examined per NRC IE Notice Response

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 001 Date 3/13/00

PART I FINDINGS

Sketch Ref: ALA2-4500 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7
Item No. 28

Component Inspected: Tee to Pipe Weld (Main Steam)

Description of Indication _____

During ultrasonic inspection of weld ALA2-4500-28 (Tee to Pipe), reflectors were recorded per Procedure with a peak amplitude of 40% DAC for a length of 0.71".

Prepared By Danny Cordes SNC L/III *DAC*

Date 03/03/2000

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ID Geometry / Root.

Bases: Evaluated as geometry per ASME Article III-4512.

Review of Previous Examinations: Data compares with 1988 examination report.

NDE Inspector Danny Cordes *DAC* Certification Level III Date 03/13/00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Indication (geometric reflector) typical of the fabrication process.

Action Required to Correct Indication: None Required

None Required

MSR Number: N/A

LER Yes _____ No X 10CFR 21 Yes _____ No X

Corrective Action Taken:

None Required

Corrective Action Initiated to Prevent Recurrence:

None Required

Prepared By *Daryl A. Stephens* Date 3-16-2000

Approved By *ll paul* Date 3/20/2000

ANTI REVIEW: G.W. 3/21/00

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31

Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA2-4500-28	Date 3/9/00	Sheet No. S00F1U017
Procedure/Rev./TCN FNP-0-NDE-100.31 / 7 / N/A	Couplant/Batch No. SONATRACE 40 / 94243	Thermometer SN/Cal Due Date 38081 / 8/27/2000	Linearity Sheet No. S00F1L005

Page 1 of 2

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-26	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-911K	Serial No.	009R22	Thickness	.500"	1T	80	2.0	.53	1T	80	2.2	.63
Ax. dB	35.2	Circ. dB	39.4	Cal. Temp.	72	2T	40	4.0	1.10	2T	45	2.4	1.29
Ref.	35.2	Size	.25	Cal. In	1145	3T	25	6.0	1.59				
Scan	43.2	Frequency/Mode	2.25 / S	Cal. Chk.	1445	4T	18	8.0	2.12				
Reject	OFF	"A" Dimension	.3	Cal. Out	1520	Calibration Remarks: N/A							
Frequency	2.25	Nominal Angle	45	Ref. Blk. No.	796484								
Mode	P/E	Measured Angle	45	Reflector	HOLE								
Damping	500 OHM	Cable Type	RG174	Amplitude/Sweep	20% / 2.9								

Comp. Temp.: 70 °F Configuration: TEE TO PIPE Wo Location C/L Lo Location TDC

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	
2	●			N/A													
7	●			N/A													
8	●			N/A													
5			●	1	40%	27.1"	27.5"	0.31"	.468"			1.7	.58"	.4"	.42"	(1)	

Examination/Limitation Remarks:

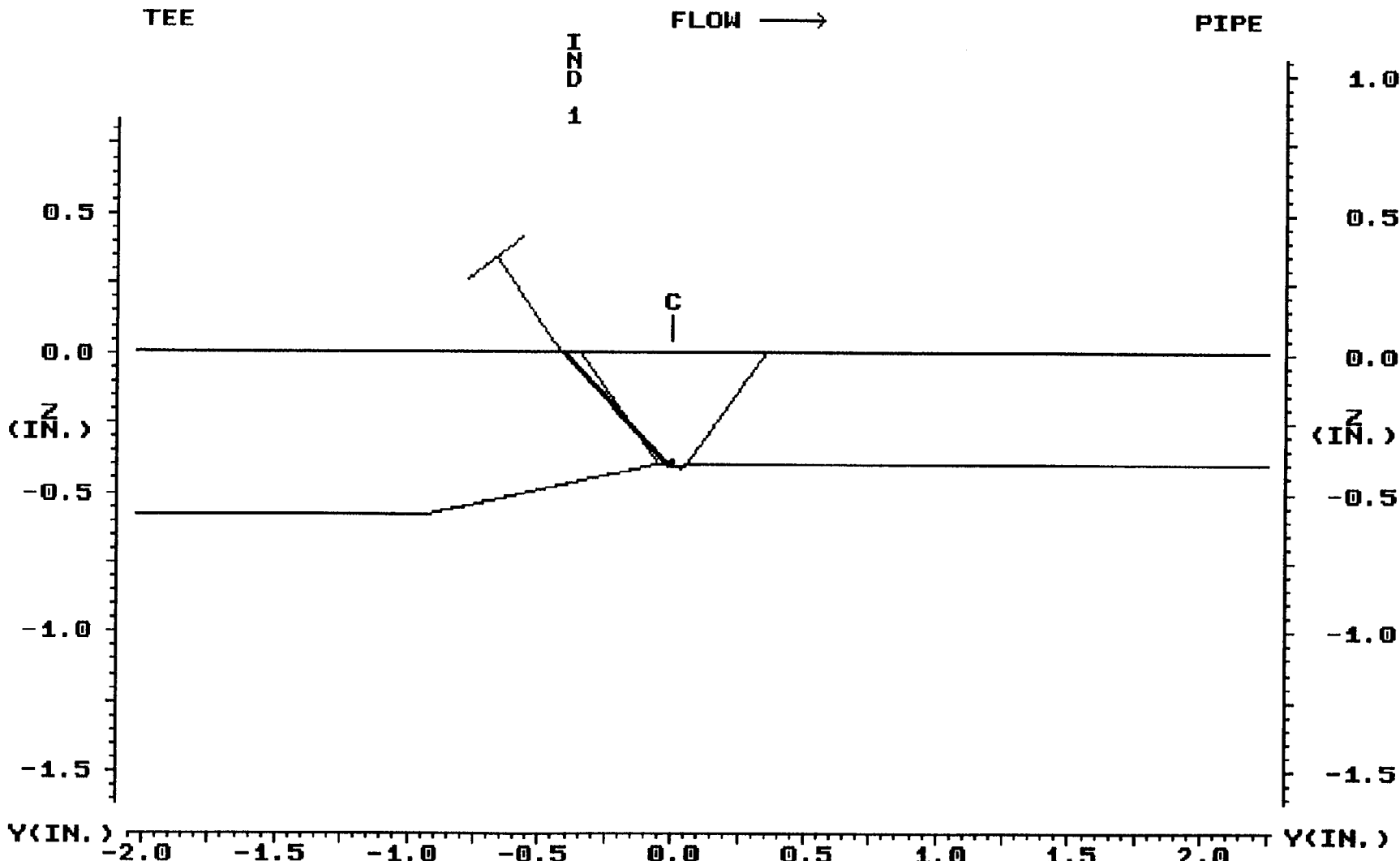
(1) INDICATION UNCHANGED FROM PREVIOUS DATA DATED 4/4/88

IER IR16001

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)			Extent of Parallel Scans (L)		
27.5"	.7"	5 (L) NL	2 (L) NL	7 & 8 (W) NL	5 - from NL to NL	2 - from NL to NL	From (5) NL to (2) NL			
Primary Examiner	Level	Assistant Examiner			Level	Non-Technical Review		Date		
GEORGE A. MORINI	II	N/A			N/A	Lynda Duke		3-13-00		
SNC NDE Level II/III Review	Date	Percentage of Code Coverage			ANII Review		Date			
Way Corda L III	3-13-00	N/A %			Eghand		5/21/00			

Figure 1

Revision 7



IND 1	SET	1R16001.DAT 1R16001A.SCR				SET
0.42	DEP	INDICATION 1 - ID GEOMETRY / ROOT				DEP
0.59	MP	COMPARES WITH PREVIOUS 1988 DATA				MP
17.50	TOF	DR CORDES L/III <i>Inc</i>				TOF
	ARC	EXIT MAKERAY/UTILITY LEFT RIGHT TOP PRINT EXIT				ARC
	GATE					GATE
0.100	STEP					STEP
	EXIT					EXIT
PLANT: FARLEY 1		3/13/00		CIRC. POS.: 27.5"		
SYSTEM: MAIN STEAM		11:20		ANALYST: D.R. CORDES L/III		
COMPONENT: ALA2-4500-28				CAL. SHEET: SOOF1U017		

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 002 Date 3/14/00

PART I FINDINGS

Sketch Ref: ALA2-4101 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7
Item No. 12BC

Component Inspected: Main Steam Header to Branch Weld (Main Steam)

Description of Indication _____

During ultrasonic inspection of weld ALA2-4101-12BC (Header to Branch), a reflector was noted which was previously recorded during the 1988 outage and found to be acceptable per ASME.

Prepared By Danny Cordes SNC L/III *DC* Date 03/14/00

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ASME Code acceptable sub-surface indication.

Bases: Evaluated as a sub-surface flaw per ASME Article III-4511.
Spot indication with no major length or thruwall dimensions. Acceptable per ASME IWB-3514.

Review of Previous Examinations: _____

Data compares with 1988 examination report. Reference IER 012 from the 1988 2-1-1 outage.

NDE Inspector Danny Cordes *DC* Certification Level III Date 03/14/00

UNIT 1

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Unknown. Probable welding flaw produced welding process.

Action Required to Correct Indication: None Required

None Required

MSR Number: N/A

LER Yes No X 10CFR 21 Yes No X

Corrective Action Taken:

None Required

Corrective Action Initiated to Prevent Recurrence:

None Required

Prepared By *Mary A. Pfeiffer* Date 3-17-2000

Approved By *LC Jones* Date 3/20/2000

ANIT REVIEW: C. W. ... 3/21/00

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit	Sketch/Component No.	Date	Sheet No.
1	ALA2-4101-12BC	3/13/00	S00F1U047
Procedure/Rev./TCN	Couplant/Batch No.	Thermometer SN/Cal Due Date	Linearity Sheet No.
FNP-0-NDE-100.31 / 7 / N/A	SONATRACE 40 / 94243	38081 / 8/27/2000	S00F1L005

Page 1 of 2

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-23	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-911K	Serial No.	0098JL	Thickness	2.31"	1T	80	3.0	2.25	1T	80	3.0	2.25
Ax. dB		Size	.50 X 1.0	Cal. Temp.	70	2T	35	6.0	4.5	2T	35	6.0	4.5
Ref.	41.8	Frequency/Mode	2.25 / S	Cal. In	0830	3T	20	9.0	6.75	3T	20	9.0	6.75
Scan	53.8	"A" Dimension	.75	Cal. Chk.	1105	Calibration Remarks:							
Reject	OFF	Nominal Angle	45	Cal. Out	1300	NONE							
Frequency	2.25	Measured Angle	45	Ref. Blk. No.	796484								
Mode	P/E	Cable Type	RG174	Reflector	HOLE								
Damping	500 OHMS	Cable Length	12'	Amplitude/Sweep	60% / 1.1								

Comp. Temp.: 57 °F Configuration: **BRANCH CONNECTION** Wo Location C/L Lo Location **DWNSTREAM**

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	
2	●	○	○	N/A												(1)
5	●	○	○	N/A												
7	○	○	●	N/A												
8	●	○	○	N/A												

Examination/Limitation Remarks: (1) PREVIOUS INDICATIONS (1988) OBSERVED AT LOWER AMPLITUDE

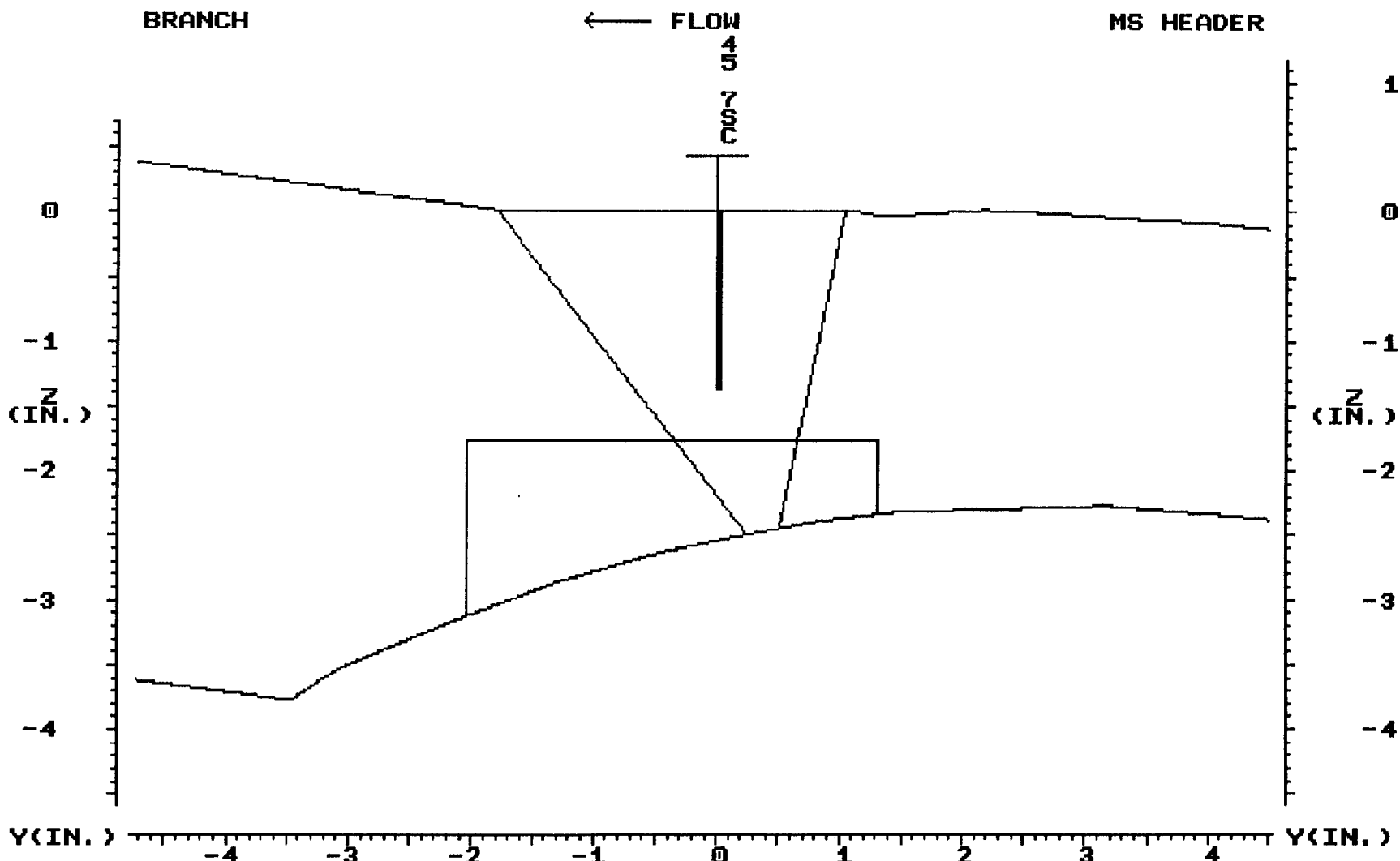
WELDED ATTACHMENT RESTRICTS ALL SCANS FOR 18"

IER 1R16002 REFERENCE *D-175302 FOR WELD PREP DESIGN, INC*

Total Length of Weld	Crown Width	Total Length of Weld Examined	Extent of Perpendicular Scans (W)	Extent of Parallel Scans (L)
60"	1.0"	5 (L) 42" 2 (L) 42" 7 & 8 (W) 42"	5 - from NL to NL	2 - from NL to NL
Primary Examiner	Level	Assistant Examiner	Level	Non-Technical Review
GEORGE A. MORINI	II	N/A	N/A	<i>Lynda Duke</i>
SNC NDE Level II/III Review	Date	Percentage of Code Coverage	ANII Review	Date
<i>Danny Coates</i>	3-17-00	N A %	<i>CF Ward</i>	3-17-00

Figure 1

Revision 7



45 7SC	SET	1R16006.DAT 1R16006A.SCR				SET			
1.38	DEP	INDICATIONS OBSERVED FROM PREVIOUS 1988 DATA. SPOT INDICATION OUTSIDE OF ASME EXAM ZONE. NO MEASURABLE THRUWALL OR LENGTH DIMENSIONS. SHOWN HERE IN DEPTH (CIRC SCAN). ASME ACCEPTABLE. <i>JRC</i> DR CORDES L/III SEE IER 1R16002.				DEP			
1.38	MP					MP			
20.12	TOF					TOF			
	ARC					ARC			
	GATE					GATE			
0.050	STEP	STEP			STEP				
	EXIT	EXIT	UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT	EXIT
PLANT: FARLEY		3/14/00		CIRC. POS.: 90 & 270					
SYSTEM: MAIN STEAM				ANALYST: DR CORDES L/III					
COMPONENT: ALA2-4101-12BC		15:12		CAL. SHEET: 500F1U047					

UNIT 1

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 003 Date 3/14/00

PART I FINDINGS

Sketch Ref: ALA2-4101 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7

Item No. 13BC

Component Inspected: Main Steam Header to Branch Weld (Main Steam)

Description of Indication _____

During ultrasonic inspection of weld ALA2-4101-13BC (Header to Branch), reflectors were noted which were previously recorded during the 1988 outage and found to be acceptable per ASME.

Prepared By Danny Cordes SNC L/III *DNC*

Date 03/14/00

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ASME Code acceptable sub-surface indications.

Bases: Evaluated as a sub-surface flaw per ASME Article III-4511.

Spot indications with no major length or thruwall dimensions. Acceptable per ASME IWB-3514.

Review of Previous Examinations: _____

Data compares with 1988 examination report. Reference IER 013 from the 1988 2-1-1 outage.

NDE Inspector Danny Cordes *DNC*

Certification Level III

Date 03/14/00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Unknown. Probable welding flaw produced welding process.

Action Required to Correct Indication: None Required

None Required

MSR Number: N/A

LER Yes No 10CFR 21 Yes No

Corrective Action Taken:

None Required

Corrective Action Initiated to Prevent Recurrence:

None Required

Prepared By *Danell Roffler*

Date 3-17-2000

Approved By *LC Jend*

Date 3/20/2000

ANII REVIEW: CGW and 3/21/00

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA2-4101-13BC** Date **3/13/00** Sheet No. **S00F1U048** Page **1** of **2**
 Procedure/Rev./TCN **FNP-0-NDE-100.31 / 7 / N/A** Couplant/Batch No. **SONATRACE 40 / 94243** Thermometer SN/Cal Due Date **38081 / 8/27/2000** Linearity Sheet No. **S00F1L005**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-23	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-911K	Serial No.	0098JL	Thickness	2.31"	1T	80	3.0	2.25	1T	80	3.0	2.25
Ax. dB	41.8	Circ. dB	41.8	Cal. Temp.	70	2T	35	6.0	4.5	2T	35	6.0	4.5
Ref.	41.8	Size	.50 X 1.0	Cal. In	0830	3T	20	9.0	6.75	3T	20	9.0	6.75
Scan	53.8	Frequency/Mode	2.25 / S	Cal. Chk.	1113	Calibration Remarks: NONE							
Reject	OFF	"A" Dimension	.75	Cal. Out	1300								
Frequency	2.25	Nominal Angle	45	Ref. Blk. No.	796484								
Mode	P/E	Measured Angle	45	Reflector	HOLE								
Damping	500 OHMS	Cable Type	RG174	Amplitude/Sweep	60% / 1.1								
		Cable Length	12'										

Comp. Temp.: **57** °F Configuration: **BRANCH CONNECTION** Wo Location **C/L** Lo Location **DWNSTREAM**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" < -	C/L	- > 1"	
2	●			N/A														(1)
5			●	N/A														
7	●			N/A														
8			●	N/A														

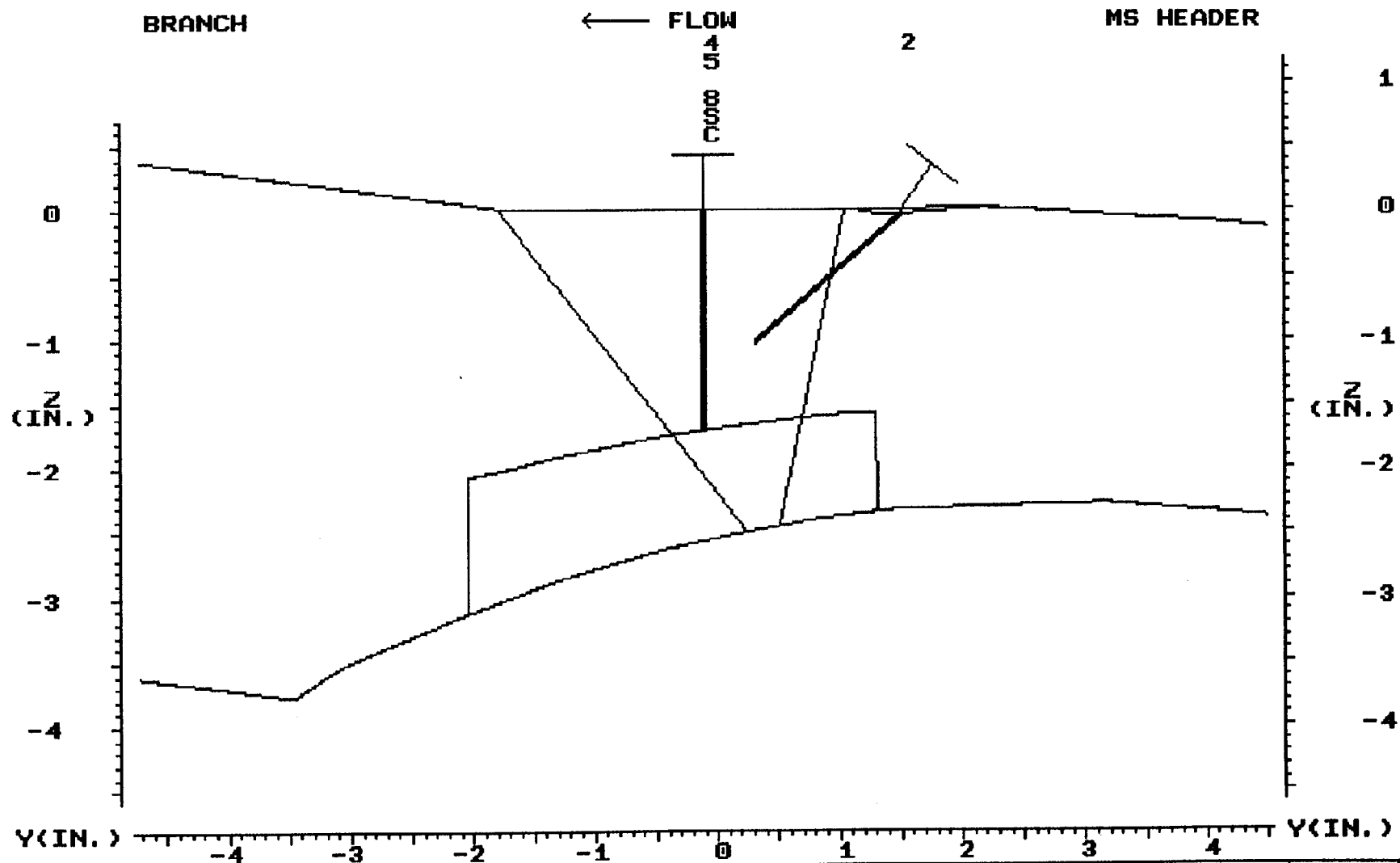
Examination/Limitation Remarks: (1) PREVIOUS INDICATION (1988) OBSERVED AT LOWER AMPLITUDE

WELDED ATTACHMENT RESTRICTS ALL SCANS FOR 18"

IER 1R16 003 REFERENCE D-175302 FOR WELD PROP DESIGN. Dec 3-14-00

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)			Extent of Parallel Scans (L)		
60"	1.2"	5 (L) 42"	2 (L) 42"	7 & 8 (W) 42"	5 - from NL to NL	2 - from NL to NL	From (5) NL to (2) NL			
Primary Examiner	Level	Assistant Examiner			Level	Non-Technical Review			Date	
GEORGE A. MORINI	II	N/A			N/A	Lynda Duke			3-17-00	
SNC NDE Level II/III Review	Date	Percentage of Code Coverage			ANII Review			Date		
Jay Corda LTT	3-17-00	N/A %			LTK			3/21/00		

Figure 1



45 8SC	SET	1R16002.DAT	1R16002A.SCR	2	SET			
1.73	DEP			1.15	DEP			
1.73	MP	INDICATIONS OBSERVED FROM PREVIOUS 1988 DATA. SPOT			1.63	MP		
23.20	TOF	INDICATIONS OUTSIDE OF ASME EXAM ZONE. NO			34.09	TOF		
	ARC	MEASURABLE THRUWALL OR LENGTH DIMENSIONS. SHOWN				ARC		
	GATE	HERE IN DEPTH (CIRC SCAN) AND MP (AX SCAN). ASME				GATE		
0.050	STEP	ACCEPTABLE. SEE IER 1R16003. DR CORDES L/III. <i>Doc</i>			0.050	STEP		
	EXIT	MAKERAY	UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT
PLANT: FARLEY		3/14/00		CIRC. POS.: 90 & 270				
SYSTEM: MAIN STEAM		15:33		ANALYST: DR CORDES L/III				
COMPONENT: ALA2-4101-13BC				CAL. SHEET: SDOF1U048				

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 004 Date 3/14/00

PART I FINDINGS

Sketch Ref: ALA2-4101 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7

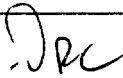
Item No. 14BC

Component Inspected: Main Steam Header to Branch Weld (Main Steam)

Description of Indication _____

During ultrasonic inspection of weld ALA2-4101-14BC (Header to Branch), a reflector was noted which was previously recorded during the 1988 outage and found to be acceptable per ASME.

Prepared By Danny Cordes SNC L/III



Date 03/14/00

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ASME Code acceptable sub-surface indication.

Bases: Evaluated as a sub-surface flaw per ASME Article III-4511.

Spot indication with no major length or thruwall dimensions. Acceptable per ASME IWB-3514.

Review of Previous Examinations: _____

Data compares with 1988 examination report. Reference IER 014 from the 1988 2-1-1 outage.

NDE Inspector

Danny Cordes



Certification Level

III

Date

03/14/00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Unknown. Probable welding flaw produced welding process.

Action Required to Correct Indication: None Required

None Required

MSR Number: N/A

LER Yes No X 10CFR 21 Yes No X

Corrective Action Taken:

None Required

Corrective Action Initiated to Prevent Recurrence:

None Required

Prepared By Darryl A. Lefler Date 3-17-2000

Approved By KL Jond Date 3/20/2000

AMEI REVIEW: CGW and 3/21/00

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA2-4101-14BC** Date **3/13/00** Sheet No. **S00F1U049** Page **1** of **2**
 Procedure/Rev./TCN **FNP-0-NDE-100.31 / 7 / N/A** Couplant/Batch No. **SONATRACE 40 / 94243** Thermometer SN/Cal Due Date **38081 / 8/27/2000** Linearity Sheet No. **S00F1L005**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-23	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-911K	Serial No.	0098JL	Thickness	2.31"	1T	80	3.0	2.25	1T	80	3.0	2.25
Ax. dB		Circ. dB		Cal. Temp.	70	2T	35	6.0	4.5	2T	35	6.0	4.5
Ref.	41.8	41.8	Size	.50 X 1.0	Cal. In	0830	3T	20	9.0	3T	20	9.0	6.75
Scan	53.8	53.8	Frequency/Mode	2.25 / S	Cal. Chk.	1120	Calibration Remarks: NONE						
Reject	OFF		"A" Dimension	.75	Cal. Out	1300							
Frequency	2.25		Nominal Angle	45	Ref. Blk. No.	796484							
Mode	P/E		Measured Angle	45	Reflector	HOLE							
Damping	500 OHMS		Cable Type	RG174	Amplitude/Sweep	60% / 1.1							
			Cable Length	12'									

Comp. Temp.: **57** °F Configuration: **BRANCH CONNECTION** Wo Location **C/L** Lo Location **DWNSTREAM**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	
2	●			N/A													(1)
5			●	N/A													
7	●			N/A													
8	●			N/A													

Examination/Limitation Remarks:
(1) PREVIOUS INDICATIONS (1988) OBSERVED AT LOWER AMPLITUDE

IER 1R16009 REFERENCE D-175302 FOR WELD PREP DESIGN, JPC 3-14-00

Total Length of Weld	Crown Width	Total Length of Weld Examined	Extent of Perpendicular Scans (W)	Extent of Parallel Scans (L)
60"	1"	5 (L) NL 2 (L) NL 7 & 8 (W) NL	5 - from NL to NL	2 - from NL to NL From (5) NL to (2) NL
Primary Examiner	Level	Assistant Examiner	Level	Non-Technical Review
GEORGE A. MORINI	II	N/A	N/A	Lynda Duke
SNC NDE Level II/III Review	Date	Percentage of Code Coverage	ANII Review	Date
<i>[Signature]</i>	3-17-00	N/A %	<i>[Signature]</i>	3-17-00

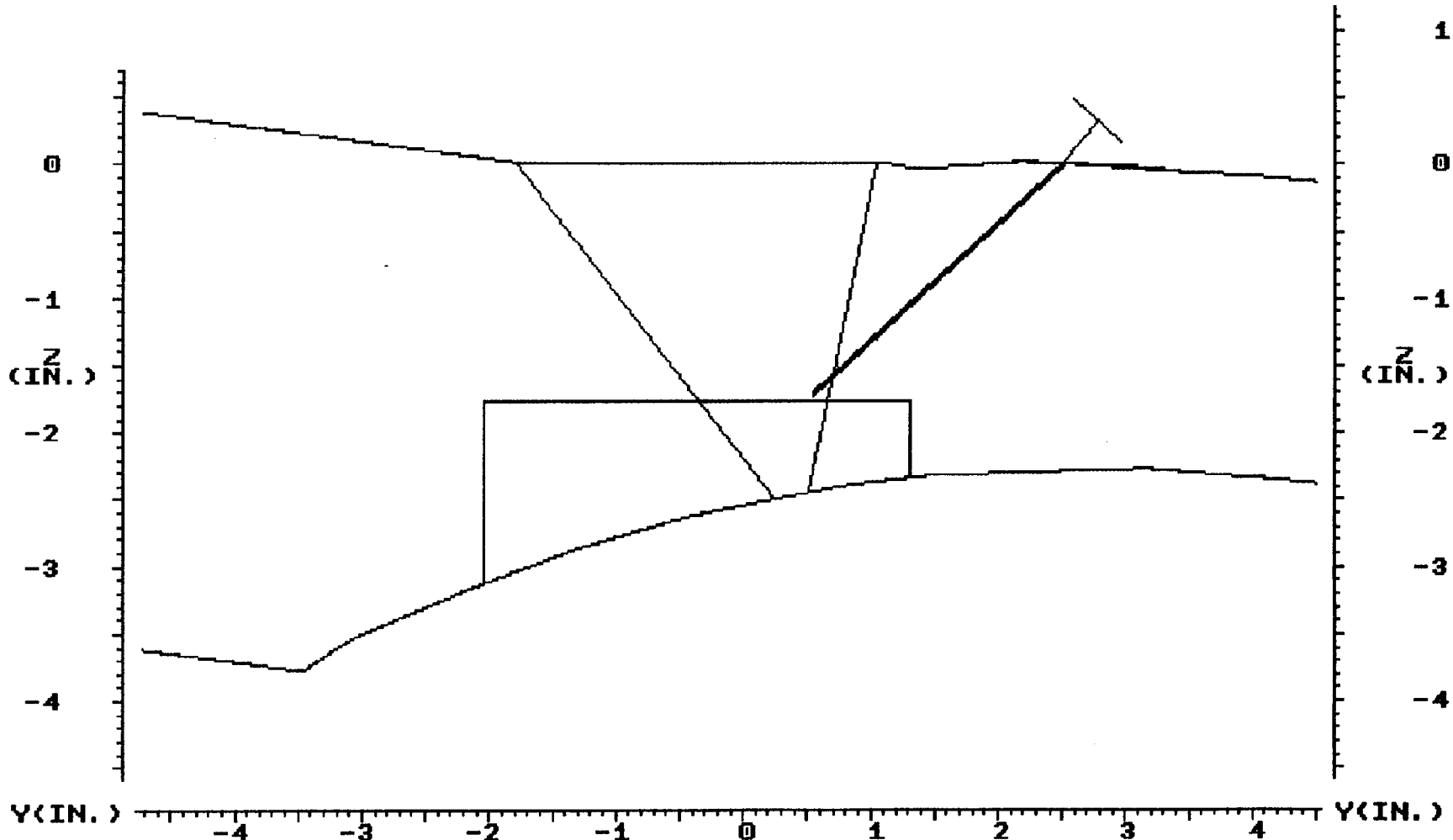
Figure 1

BRANCH

← FLOW

MS HEADER

1



1	SET	1R16007.DAT	1R16007A.SCR		SET		
1.84	DEP	INDICATION OBSERVED FROM PREVIOUS 1988 DATA. SPOT INDICATION OUTSIDE OF ASME EXAM ZONE. NO MEASURABLE THRUWALL OR LENGTH DIMENSIONS. ASME ACCEPTABLE. SEE IER 1R16004. DR CORDES L/III. <i>JRC</i>			DEP		
2.61	MP				MP		
49.73	TOF				TOF		
	ARC				ARC		
	GATE				GATE		
0.050	STEP		STEP				
	EXIT	EXIT	EXIT	EXIT			
	PLANT:	FAKRAY/UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT
	SYSTEM:	3/15/00	CIRC. POS.: 90 & 270		ANALYST: DR CORDES L/III		
	COMPONENT:	ALA2-4101-14BC	6:56	CAL. SHEET: 500F1U049			

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 005 Date 3/16/00

PART I FINDINGS

Sketch Ref: ALA2-3500 NDE Method: PT Procedure/Rev. FNP-0-NDE-100.5 Rev. 6

Item No. Weld 3

Component Inspected: Nozzle Reinforcement Weld (RHR HT EX)

Description of Indication _____

During liquid penetrant examination of the integral attachment weld, indications were observed which were previously recorded during the 1991 outage and found to be acceptable per ASME.

Prepared By Danny Cordes SNC L/III *DC* Date 03/16/00

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ASME Code acceptable surface indications.

Bases: Examination category C-B/C2.31 refers to IWC-3511 (IWC-3511.2) and table IWC-3511-2, which references ferritic steels (also same thru 1998). The shell has a nominal thickness of 0.875" (7/8"). Indications of up to and including 3/16" (0.1875) for a wall thickness of < 1/2" are considered to be acceptable per this table.

Table IWB-3514-2 (Austenitic Piping) allows indications of 0.2" to be acceptable for a wall thickness of 0.312".

Review of Previous Examinations: _____

Data compares with 1991 examination report. Reference IER 001 from the 1988 2-1-3 outage.

NDE Inspector Danny Cordes *DC* Certification Level III Date 03/16/00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Unknown. Probable welding flaw produced welding process.

Action Required to Correct Indication: None Required

None Required

MSR Number: N/A

LER Yes No X 10CFR 21 Yes No X

Corrective Action Taken:

None Required

Corrective Action Initiated to Prevent Recurrence:

None Required

Prepared By *Samuel L. Lottus* Date 3-20-2000

Approved By *AC Ford* Date 3/20/2000

ANII REVIEW: C. G. Ward 3/21/00

SHARED

FNP-0-NDE-100.5

PT-F-Form 001

Farley Nuclear Plant

Liquid Penetrant Examination Record

Southern Nuclear Operating Company

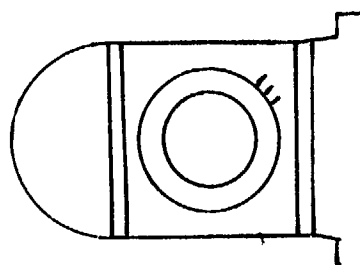
Unit 1	Component Number ALA2-3500-3	Procedure/Rev./TCN FNP-0-NDE-100.5 / 6 / N/A	Sheet No. S00F1P006	Page 1 of 1
Thermometer Mfg. / Ser. No. PTC / 38180 Cal. Due Date 8/27/2000 Surface Temp. 77 °F		Penetrant Materials Manufacturer MAGNAFLUX Cleaner/Remover SKC-S Penetrant SKL-SP Developer SKD-S2 Type SKC-S Batch 98A10K 93D12K 96J08K		
Component Configuration RESID HX A IN NOZZ REINF WELD		% of Length Coverage 100	% of Area Coverage 100	Date 3/15/00
Ind. No.	Results	Indication Desc. / Exam Limitations / etc.	Remarks	

~~N/A~~
1-3
Drc
3-17-00

RI

3 LINEAR INDICATIONS SEPARATED BY .4" MINIMUM WITH LENGTHS OF 1/16, 5/32, AND 3/16

N/A



LOOKING UP

Remarks: SEE IER IR16005 Drc

Primary Examiner CLYDE KIEHL	ASNT Level II	Initials <i>CWK</i>	Assistant Examiner JOHN W. BELL	ASNT Level II	Initials <i>JWB</i>	Non-Technical Review <i>Lynda Duke</i>	Date 3-16-00
SNC NDE Level II/III Review <i>Jan Cordes LIII</i>		Date 3-17-00	Percentage of Code Coverage 100 %	ANII Review <i>Lynda Duke</i>		Date 3/21/00	

Figure 1

Revision 6

UNIT 1

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 006 Date 3/24/00

PART I FINDINGS

Sketch Ref: ALA2-4500 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7

Item No. 1

Component Inspected: Cap to Tee Weld (Main Steam)

Description of Indication _____

During ultrasonic inspection of weld ALA2-4500-1 (Cap to Tee), a reflector was recorded per procedure with a peak amplitude of 178% DAC.

Prepared By Danny Cordes SNC L/III



Date 03/24/2000

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ID Geometry

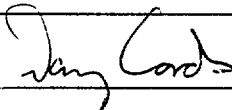
Bases: Evaluated as geometry per ASME Article III-4512.

Typical ultrasonic reflectors resulting from the OD and ID piping configuration (reference the ultrasonic data report S00F1U103).

Review of Previous Examinations: Data compares with 1988 examination report. (IER 016)

NDE Inspector

Danny Cordes



Certification Level

III

Date

03/24/00

UNIT 1

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Geometric reflector from piping configuration.

Action Required to Correct Indication: None Required

None Required

MSR Number: N/A

LER Yes No 10CFR 21 Yes No

Corrective Action Taken:

None Required

Corrective Action Initiated to Prevent Recurrence:

None Required

Prepared By Daryl A. Roffler Date 3-27-00

Approved By AC Yoshida Date 3/27/00

ANZI Review: CG Wandell 3/28/00

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA2-4500-1** Date **3/21/00** Sheet No. **S00F1U103** Page **1** of **2**
 Procedure/Rev./TCN **FNP-0-NDE-100.31 / 7 / N/A** Couplant/Batch No. **SONOTRACE 40 / 94243** Thermometer SN/Cal Due Date **38180 / 8/27/2000** Linearity Sheet No. **S00F1L005**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-24	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-911K	Serial No.	009KTR	Thickness	1.20" - 1.81"	1T	80	3.0	1.81	1T	80	3.2	2.15
Ax. dB	29.2	Circ. dB	31.0	Cal. Temp.	68°	2T	30	6.0	3.62	2T	20	6.4	4.29
Ref.	39.2	Size	.50	Cal. In	0819	3T	12	9.0	5.40				
Scan	39.2	Frequency/Mode	2.25 / S	Cal. Chk.	1025	Calibration Remarks: NONE							
Reject	OFF	"A" Dimension	.5"	Cal. Out	1220								
Frequency	2.25	Nominal Angle	45	Ref. Blk. No.	796484								
Mode	P/E	Measured Angle	45	Reflector	HOLE								
Damping	500 OHMS	Cable Type	RG174	Amplitude/Sweep	22%/1.4								
		Cable Length	15'										

Comp. Temp.: **62** °F Configuration: **CAP TO TEE** Wo Location **WELD CL** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	-->1"	
2			●	1	178%	113.05	0.00	0.20	4.7	5.0	5.3	8.1	8.3	8.4	1.88	1.24	1.22	
7	●			N/A														
8	●			N/A														

Examination/Limitation Remarks: (1) REFERENCE S00F1U104 FOR 5 SCAN (ALA-24). TAPER LIMITS 2 SCAN FROM 0" TO 1.9".

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)			Extent of Parallel Scans (L)		
113.25	1.6"	5 (L) N/A	2 (L) NL	7 & 8 (W) NL	5 - from (1) to (1)	2 - from 1.9" to NL	From (5) NL to (2) NL			
Primary Examiner	Assistant Examiner		Level	Assistant Examiner	Level	Non-Technical Review	Date			
JOSEPH D. FUNYAK	N/A		II	N/A	N/A	<i>[Signature]</i>	3-22-00			
SNC NDE Level II/III Review	Date	Percentage of Code Coverage			ANII Review	Date				
<i>[Signature]</i>	3-24-00	NA %			<i>[Signature]</i>	3/28/00				

Figure 1

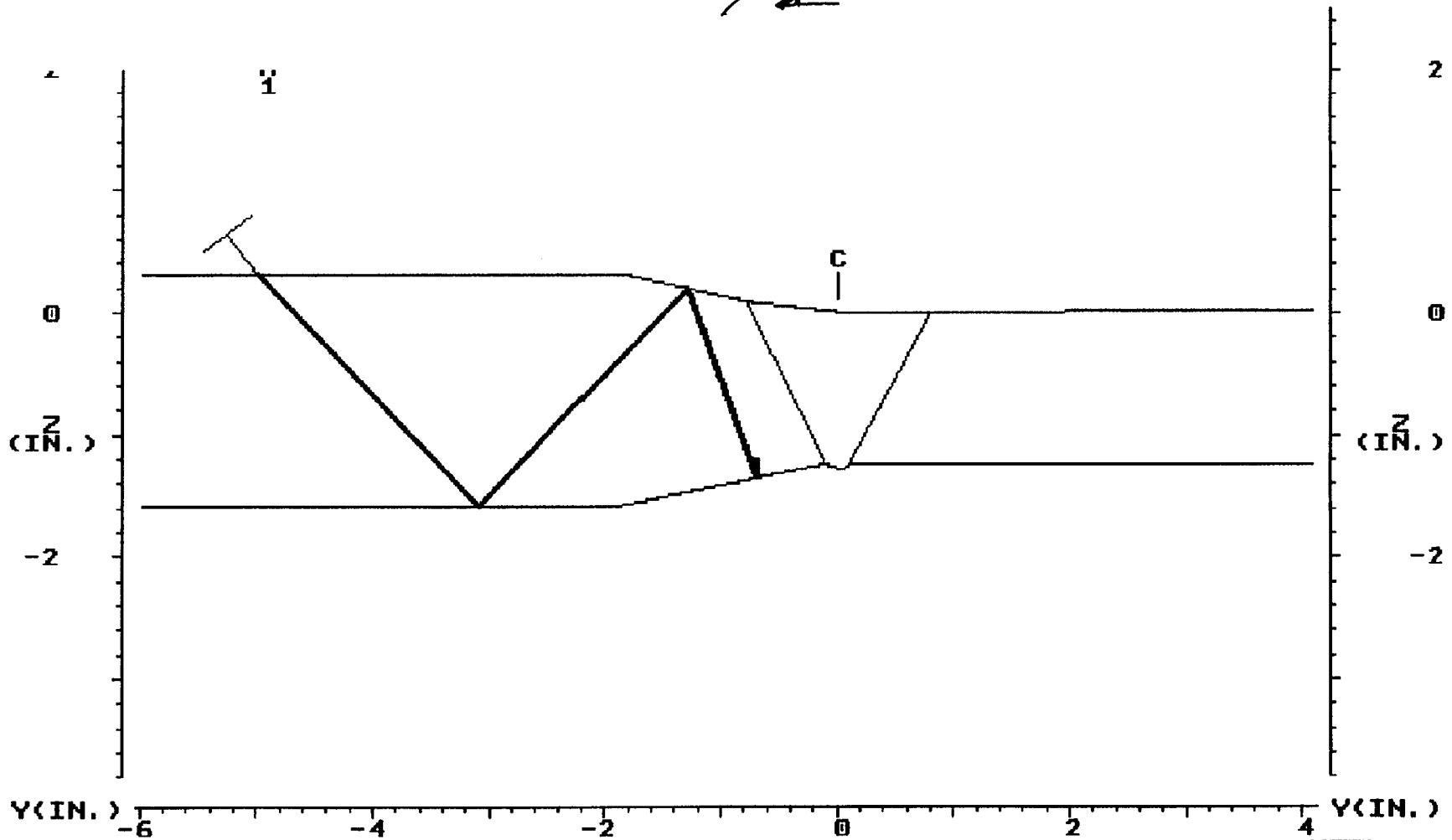
Revision 7

TEE

FLOW

Inc
3-24-00

CAP



45 IN1	SET	1R16018.DAT	1R16018A.SCR	45 IN1	SET	
4.99	DEP			0.00	DEP	
7.05	MP	45 DEG IND # 1 - ID GEOMETRY		0.00	MP	
120.80	TOF	COMPARES WITH 1988 DATA		8.00	TOF	
	ARC				FAN	
	GATE				GATE	
0.050	STEP	DR CORDES L/III	<i>Inc</i>	1.000	STEP	
	EXIT	MAKERAY/UTILITY	LEFT	RIGHT	TOP	EXIT
PLANT: FARLEY 1		3/24/00		CIRC. POS.: TYP		
SYSTEM: MAIN STEAM		11:49		ANALYST: DR CORDES L/III		
COMPONENT: ALA2-4500-1				CAL. SHEET: S00F10103		

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA2-4500-1	Date 3/21/00	Sheet No. S00F1U104
Procedure/Rev./TCN FNP-0-NDE-100.31 / 7 / N/A		Couplant/Batch No. SONOTRACE 40 / 94243	Thermometer SN/Cal Due Date 38180 / 8/27/2000
			Page 1 of 1
		Linearity Sheet No. S00F1L005	

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-24	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-911K	Serial No.	009KTR	Thickness	1.20"	1T	80	2.0	1.20	1T	80	2.1	1.30
Ax. dB	28.2	Circ. dB	30.8	Cal. Temp.	68°	2T	40	4.0	2.30	2T	40	4.2	2.60
Ref.	28.2	Size	.50	Cal. In	0810	3T	20	6.0	3.50				
Scan	38.2	Frequency/Mode	2.25 / S	Cal. Chk.	1010	4T	15	8.0	4.60				
Reject	OFF	"A" Dimension	.5"	Cal. Out	1215	Calibration Remarks: NONE							
Frequency	2.25	Nominal Angle	45	Ref. Blk. No.	796484								
Mode	P/E	Measured Angle	45	Reflector	HOLE								
Damping	500 OHMS	Cable Type	RG174	Amplitude/Sweep	20%/1.2								
		Cable Length	15'										

Comp. Temp.: 62 °F Configuration: CAP TO TEE Wo Location WELD CL Lo Location TDC

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	--> 1"	
5	●			N/A														
7	●			N/A														
8	●			N/A														

Examination/Limitation Remarks: (1) REFERENCE S00F1U103 FOR 2 SCAN (APR-4).

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
113.25	1.6"	5 (L) NL	2 (L) N/A	7 & 8 (W) NL	5 - from NL	to NL	2 - from (1)	to (1)	From (5) NL	to (2) NL		
Primary Examiner JOSEPH D. FUNYAK	<i>J.D. Funyak</i>	Level II	Assistant Examiner N/A			Level N/A	Non-Technical Review <i>Bonnie Rofles</i>			Date 3-22-00		
SNC NDE Level II/III Review <i>Vany Cordes</i>		Date 3-24-00	Percentage of Code Coverage N/A %			ANII Review <i>egward</i>			Date 3/28/00			

Figure 1

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 007 Date 3/24/00

PART I FINDINGS

Sketch Ref: ALA2-4500 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7

Item No. 2

Component Inspected: Cap to Tee Weld (Main Steam)

Description of Indication

During ultrasonic inspection of weld ALA2-4500-2 (Tee to Pipe), a reflector was recorded per procedure with a peak amplitude of 70% DAC.

Prepared By Danny Cordes SNC I/III

Date 03/24/2000



PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ID Geometry

Bases: Evaluated as geometry per ASME Article III-4512.

Typical ultrasonic reflectors resulting from the OD and ID piping configuration (reference the ultrasonic data report S00F1U107).

0

Review of Previous Examinations: Data compares with 1988 examination report. (IER 017)

NDE Inspector Danny Cordes



Certification Level

III

Date

03/24/00

UNIT 1

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Geometric reflector from piping configuration.

Action Required to Correct Indication: None Required

None Required

MSR Number: N/A

LER Yes No X 10CFR 21 Yes No X

Corrective Action Taken:

None Required

Corrective Action Initiated to Prevent Recurrence:

None Required

Prepared By *Samuel R. Hopton* Date 3-27-00

Approved By *A. J. Ford* Date 3/27/00

ANTI REVIEW: CGWand 3/28/00

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit	Sketch/Component No.	Date	Sheet No.
1	ALA2-4500-2	3/21/00	S00F1U107
Procedure/Rev./TCN	Couplant/Batch No.	Thermometer SN/Cal Due Date	Linearity Sheet No.
FNP-0-NDE-100.31 / 7 / N/A	SONOTRACE 40 / 94243	38180 / 8/27/2000	S00F1L005

Page 1 of 2

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	APR-4	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-911K	Serial No.	009KTR	Thickness	1.810"	1T	80	3.0	1.81	1T	80	3.2	2.15
Ax. dB		Circ. dB		Cal. Temp.	68°	2T	30	6.0	3.62	2T	20	6.4	4.29
Ref.	29.2	31.0	Size	.50	Cal. In	0819	3T	12	9.0				
Scan	39.2	41.0	Frequency/Mode	2.25 /	Cal. Chk.	1110							
Reject	OFF		"A" Dimension	.5"	Cal. Out	1220							
Frequency	2.25		Nominal Angle	45	Ref. Blk. No.	796484							
Mode	P/E		Measured Angle	45	Reflector	HOLE							
Damping	500 OHMS		Cable Type	RG174	Amplitude/Sweep	22%/1.4							
			Cable Length	15'									

Calibration Remarks:
NONE

Comp. Temp.: 62 °F Configuration: TEE TO PIPE Wo Location WELD CL Lo Location TDC

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:		
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <	C/L	> 1"			
5			●	1	70		113.25				5.0			8.5		1.84	1.20	1.30	SPOT IND	
7	●			N/A																
8	●			N/A																

Examination/Limitation Remarks: (1) REFERENCE S00F1U106 FOR 2 SCAN (ALA-24). TAPER LIMITS 5 SCAN FROM 0" TO 1.6".

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
113.25	1.6"	5 (L) NL	2 (L) (1)	7 & 8 (W) NL	5 - from 1.6 to NL	2 - from (1) to (1)	From (5) NL to (2) NL					
Primary Examiner	Level	Assistant Examiner	Level	Non-Technical Review	Date	Percentage of Code Coverage		ANII Review		Date		
JOSEPH D. FUNYAK	II	N/A	N/A	<i>[Signature]</i>	3-28-00	N/A	%	<i>[Signature]</i>	<i>[Signature]</i>	5/28/00		
SNC NDE Level II/III Review	Date	Percentage of Code Coverage		ANII Review		Date						
<i>[Signature]</i>	3-24-00	N/A		<i>[Signature]</i>		5/28/00						

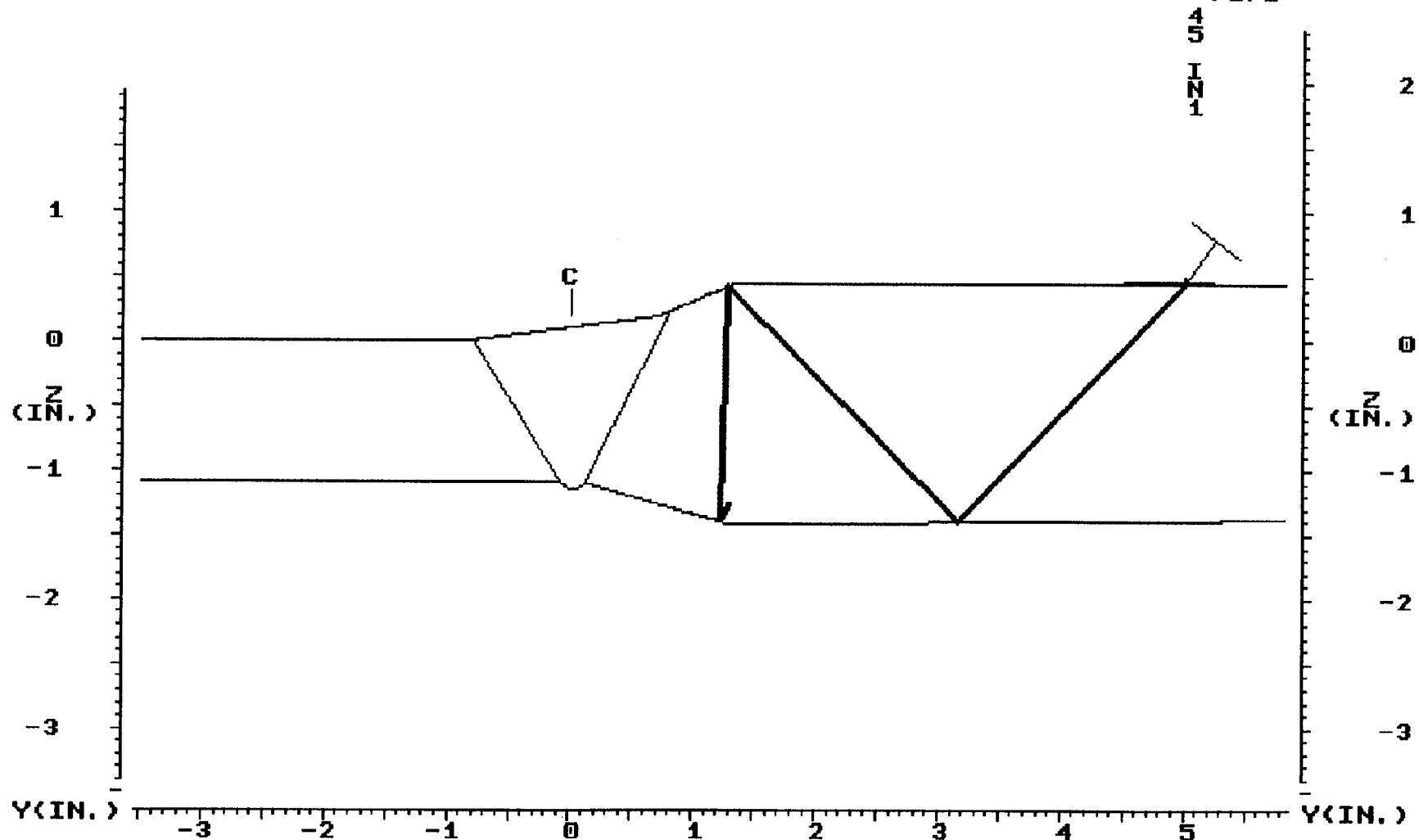
Figure 1

Revision 7

TEE

FLOW →

PIPE



45 IN1	SET	1R16019.DAT 1R16019A.SCR				SET
5.10	DEP					DEP
7.22	MP	45 DEG IND 1 - ID GEOMETRY				MP
123.45	TOF	COMPARES WITH 1988 DATA				TOF
	ARC	DR CORDES L/III				FAN
	GATE					GATE
0.050	STEP					STEP
	EXIT	MAKERAY/UTILITY	LEFT	RIGHT	TOP	PRINT
						EXIT
PLANT: FARLEY 1		3/24/00		CIRC. POS.: TYP		
SYSTEM: MAIN STEAM		12:40		ANALYST: DR CORDES L/III		
COMPONENT: ALA2-4500-2				CAL. SHEET: SOOF1U103		

Dr 324-00

SOOF1U107

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA2-4500-2** Date **3/21/00** Sheet No. **S00F1U106** Page **1** of **1**
 Procedure/Rev./TCN **FNP-0-NDE-100.31 / 7 / N/A** Couplant/Batch No. **SONOTRACE 40 / 94243** Thermometer SN/Cal Due Date **38180 / 8/27/2000** Linearity Sheet No. **S00F1L005**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-24	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-911K	Serial No.	009KTR	Thickness	1.20"	1T	80	2.0	1.20	1T	80	2.1	1.30
Ax. dB		Size	.50	Cal. Temp.	68°	2T	40	4.0	2.30	2T	40	4.2	2.60
Ref.	28.2	Frequency/Mode	2.25 / 5	Cal. In	0810	3T	20	6.0	3.50				
Scan	38.2	"A" Dimension	.5"	Cal. Chk.	1135	4T	15	8.0	4.60				
Reject	OFF	Nominal Angle	45	Cal. Out	1215	Calibration Remarks: NONE							
Frequency	2.25	Measured Angle	45	Ref. Blk. No.	796484								
Mode	P/E	Cable Type	RG174	Reflector	HOLE								
Damping	500 OHMS	Cable Length	15'	Amplitude/Sweep	20%/1.2								

Comp. Temp.: **62** °F Configuration: **TEE TO PIPE** Wo Location **WELD CL** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<-	C/L	-->1"	
2	●			N/A														
7	●			N/A														
8	●			N/A														

Examination/Limitation Remarks: (1) REFERENCE S00F1U107 FOR 5 SCAN (APR-4).
 (2) MS-R119 (WS) LIMITS 2 SCAN IN 2 PLACES FROM CL TO 1.5" FOR A TOTAL OF 28" OF 113.25".

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)										
113.25	1.6"	5 (L)	(1)	2 (L)	(2)	7 & 8 (W)	NL	5 - from	(1)	to	(1)	2 - from	(2)	to	(2)	From (5)	NL	to	(2)	NL
Primary Examiner JOSEPH D. FUNYAK	<i>J.D. Funyak</i>	Level	Assistant Examiner				Level	Non-Technical Review				Date								
SNC NDE Level II/III Review <i>Darryl Corda</i>	<i>LTH</i>	II	N/A				N/A	<i>Darryl Corda</i>				3-22-00								
		Date	Percentage of Code Coverage				ANII Review				Date									
		3-24-00	N/A %				<i>C.G. Ward</i>				3/22/00									

Figure 1

UNIT 1

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 Year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 008 Date 3/27/00

PART I FINDINGS

Sketch Ref: See attached NDE Method: VT-2 Procedure/Rev. FNP-0-NDE.100.22/Rev 2
Item No. N/A

Component Inspected: Class 1 Bolted Connections / See attached sheet.

Description of Indication See attached sheet for description of indication for each component.

Prepared By Charles W. Dean Date 3/27/2000

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: Examination performed per Examination Category B-P, system leakage test (IWB-5221), VT-2, and RR-27, ASME Section XI, 1989 Edition.

Evaluation: VT-2 examinations are unacceptable per IWA-5250(a)(2).

Bases: For systems that are borated for the purpose of controlling reactivity, insulation shall be removed from pressure retaining bolted connections for visual examination, VT-2. FNP RR-27 allows the insulated bolted connections to be uninsulated and VT-2 examined once each refueling outage while the connections are at atmospheric or static pressure. Based on ASME Section XI, 1989 Edition, paragraph IWA-5241(a) and IWA-5242(a), the boron residue (leakage) requires corrective action.

Review of Previous Examinations: Q1E11V051C, Q1E21V0077A, Q1B13V0003, Q1E21V0367, Q1E21V0077B and Q1E21V0077C showed evidence of leakage (boron build-up) during 1R15. During 1R15 these 6 valves had their bonnets removed, flanges and bolting in contact with boric acid build-up VT-3 examined, and gaskets replaced.

NDE Inspector J. Eric Rydal Certification Level III Date 5-18-00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Leakage of borated water from bolted connections.

Action Required to Correct Indication: Per IWA-5250(a)(2), if leakage occurs at a bolted connection, the bolting shall be removed, VT-3 visually examined for corrosion and evaluated in accordance with IWA-3100.

MSR Number: See attached sheet.

LER Yes _____ No X 10CFR 21 Yes _____ No X

Corrective Action Taken: Work orders were written for examination of these bolted connections that showed evidence of leakage. The valve bonnets were removed, valves and flange surfaces were cleaned, and bolting in contact with boron build-up was removed and VT-3 examined. Flow orifice 2886A was disassembled, cleaned and inspected. All bolting examinations were satisfactory. Gaskets were replaced.

Corrective Action Initiated to Prevent Recurrence: Bolted connections were disassembled, cleaned, bolts VT-3 examined, and gaskets replaced. Bolts were tightened to their proper torque values.

Prepared By J. Eric Orsock Date 5-18-00

Approved By David Hartline Date 5/22/00

SNII REVIEW: CGW and 5/22/00

FIGURE C-1

IER No. 008
FNP UNIT 1 REFUELING OUTAGE 1R16
VALVE BOLTING

TPNS Number	Work Order	Item Description	VT-2 Result
Q1E11V051C	20001774	SI to RCS Loop 3 Cold Leg Check Valve	Light dry boron build-up on valve gasket area.
Q1E21V0367	20001826	Letdown Control Valve	Moderate dry boron build-up on valve gasket area.
Q1E21V0077C	20001838	SI to RCS Loop 3 Hot Leg Check Valve	Light dry boron build-up on gasket and bolting
Q1E21V0077A	20001938	SI to RCS Loop 1 Hot Leg Check Valve	Light dry boron build-up on basket and bolting.
Q1E21V0246	20001943	Excess Letdown Isolation Valve	Heavy dry boron build-up on gasket, bolting, and valve body.
Q1E21V077B	20001946	SI to RCS Loop 2 Hot Leg Check Valve	Light dry boron build-up on valve gasket area
Q1E11FO2886A	20001656	SI to RCS Loop 3 Cold Leg Flow Orifice Bolted Connection	Heavy dry boron build-up on gasket and bolting.
Q1E21V038A	20001669	"A" Accumulator to RCS Cold Leg Loop 1 Isolation Valve	Light dry boron build-up on gasket area
Q1E11V044	20001706	SI to RCS Not Legs Isolation Valve	Moderate dry boron build-up on gasket area
Q1B13V003	20002011	RCS Loop 1 to Normal Letdown Isolation Valve	Light dry boron build-up on gasket, bolting, and valve body.

02/28/00 07:55:50

SHARED

FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY //		Data Package <i>TPNS QIEZIV051C</i>	Drawing Number <i>D-351115 SHT 1</i>
WOVA No. <i>99009125</i>		System Boundaries <i>RCS COLD LEG LOOP 1 SAFETY INJECTION</i>	
Procedure No. FNP-0-NDE-100.22			
Revision No. <i>2</i>			
Examiner <i>Scott R. Erickson</i>	Level <i>II</i>	<i>CHECK VALVE BODY TO BONNET JOINT.</i>	
Examiner <i>N/A</i>	Level <i>N/A</i>		
Date (Month-Day-Year) <i>3-8-00</i>			
SKETCH			
Examination (Per Para. 7.5) <input type="checkbox"/> Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas <i>SEE FIGURE 2 - PAGE 2 OF 2</i>			
Comments <i>REF. RR-27</i>			

02/28/00 07:55:50

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FNP-0-NDE-100.22
RTYPE: L1.09

FIGURE 2

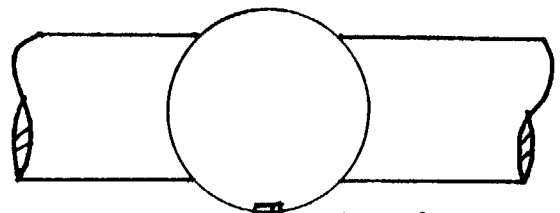
VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1E21V051C		Drawing Number D-351115 SHT 1	
WO/WA No. 99008125	Date (Month-Day-Year) 3-8-00	Examiner Scott R. Erickson	Level II	Location CTMT LOOP1 126' EL.
Procedure No. FNP-0-NDE-100.22				
Revision No. 2				

Flow →



AREA OF BORON BUILD-UP

Comments: LIGHT DRY BORON BUILD-UP ON GASKET AREA.

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FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package ^{TPNS} D1E2IV367	Drawing Number D-351116 SHT.1
WOWA No. 99008133		System Boundaries RCS COLD LEG LOOP 1 TO LETDOWN ISOLATION VALVE BODY TO BONNET JOINT.	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II		
Examiner N/A	Level N/A		
Date (Month-Day-Year) 3-9-00			
SKETCH			
Examination (Per Para. 7.5) _____ Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas SEE FIGURE 2 - PAGE 2 OF 2			
Comments REF. RR-27			

SHARED

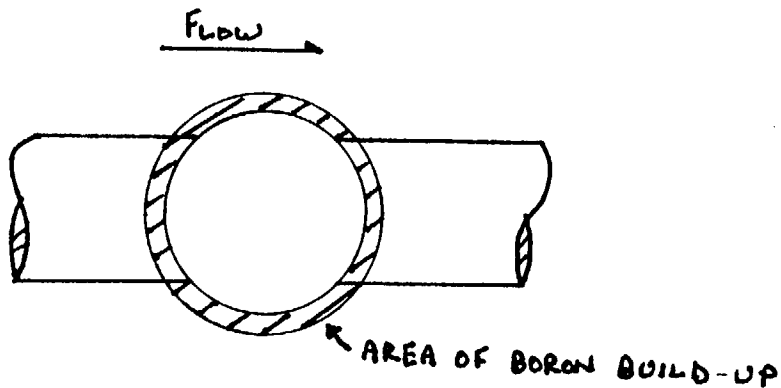
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. QIE21V367	Drawing Number D-351116 SHT.1	
WO WA No. 99008133	Date (Month-Day-Year) 3-9-00	Examiner Scott R. Erickson	Level II
Procedure No. FNP-0-NDE-100.22			Location CTMT REG.HX 106'EL.
Revision No. 2			



Comments: MODERATE DRY BORON BUILD-UP ON GASKET

02/28/00 07:55:50

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FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1		Data Package TPNS 01E2LV077C	Drawing Number D-351115 SHT.1
WO/WA No. 99008141		System Boundaries	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II	SAFETY INJECTION TO LOOP 3 HOT LEG CHECK VALVE BODY TO BONNET JOINT.	
Examiner N/A	Level N/A		
Date (Month-Day-Year) 3-10-00		 	
SKETCH			
Examination (Per Para. 7.5)			
_____ Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas SEE FIGURE 2 PAGE 2 OF 2			
Comments REF. RR-27			

SHARED

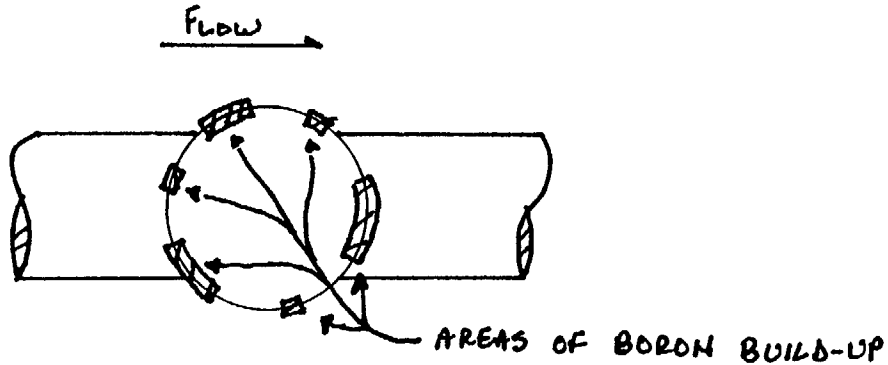
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E21V077C	Drawing Number D-351115 SMT.1		
WO/WA No. 99008141	Date (Month-Day-Year) 3-10-00	Examiner Scott R. Erickson	Level II	Location CTMT LOOP 3 ELEV. 126'
Procedure No. FNP-0-NDE-100.22				
Revision No. 2				



Comments: LIGHT DRY BORON BUILDUP ON BASKET AREA AND BOLTING.

02/28/00 07:55:50

SHARED

FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11		Data Package ^{TPNS} QIE21V077A	Drawing Number D-35115 SHT.1		
WO/WA No. 99008127		System Boundaries RCS HOT LEG LOOP 1 SAFETY INJECTION CHECK VALVE BODY TO BONNET JOINT.			
Procedure No. FNP-0-NDE-100.22					
Revision No. 2					
Examiner <u>Scott R. Erickson</u>	Level <u>II</u>				
Examiner <u>N/A</u>	Level <u>N/A</u>				
Date (Month-Day-Year) <u>3-7-00</u>					
SKETCH		N/A			
Examination (Per Para. 7.5) _____ Sat <input checked="" type="checkbox"/> *Unsat					
*Provide details on unsat areas <u>SEE FIGURE 2 - PAGE 2 OF 2</u>					
Comments <u>REF. RR-27</u>					

FIGURE 2

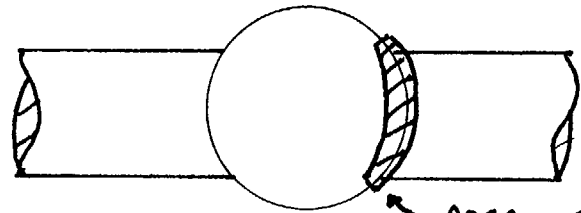
VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1EZ1V077A	Drawing Number D-351115 SHT.1		
WO/WA No. 99008127	Date (Month-Day-Year) 3-7-00	Examiner SCOTT R. ERICHSON	Level II	Location CTMT LOOP 1 126' EL.
Procedure No. FNP-0-NDE-100.22				
Revision No. 2				

Flow →



AREA OF BORON BUILD-UP

Comments: LIGHT DRY BORON BUILD-UP ON GASKET AREA AND VALVE BOLTING.

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plan/Unit FARLEY /1		Data Package <i>TPNS 01E21V246</i>	Drawing Number <i>D-351116 SHT.1</i>		
WO/WA No. <i>99008150</i>		System Boundaries <i>RCS LOOP 3 TO EXCESS LETDOWN HEAT EXCHANGER BODY TO BONNET JOINT.</i>			
Procedure No. FNP-0-NDE-100.22					
Revision No. <i>2</i>					
Examiner <i>Scott R. Erickson</i>	Level <i>II</i>				
Examiner <i>N/A</i>	Level <i>N/A</i>				
Date (Month-Day-Year) <i>3-7-00</i>					
SKETCH					
Examination (Per Para. 7.5)					
_____ Sat <input checked="" type="checkbox"/> *Unsat					
*Provide details on unsat areas <i>SEE FIGURE 2 - SHEET 2 OF 2</i>					
Comments <i>REF. RR-27</i>					

SHARED

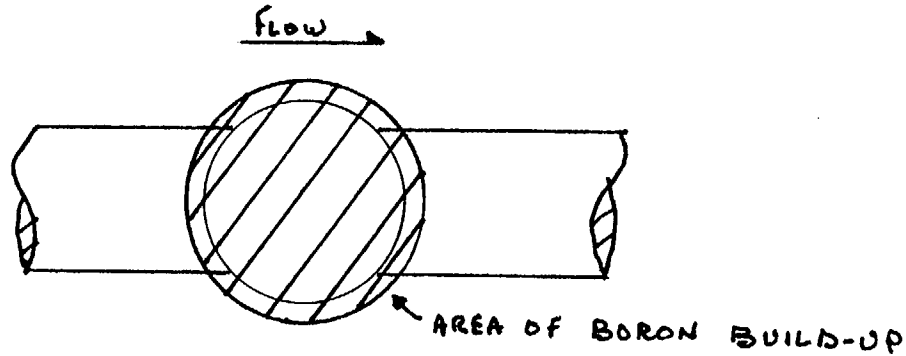
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E21V246	Drawing Number D-351116 SHT. 1	
WO/WA No. 99008150	Date (Month-Day-Year) 3-7-00	Examiner Scott R. Erickson	Level II
Procedure No. FNP-0-NDE-100.22			Location CTMT LOOP 3 107'EL.
Revision No. 2			



Comments: HEAVY DRY BORON BUILD-UP ON GASKET AREA AND BOLTING AND VALVE BODY

02/28/00 07:55:50

SHARED

FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package <i>TPNS Q1E2IV077B</i>	Drawing Number <i>D-35115 SHT. 1</i>
WO/WA No. <i>99008135</i>		System Boundaries <i>LOOP 2 HOT LEG SAFETY INJECTION</i> <i>CHECK VALVE BODY TO BONNET JOINT.</i>	
Procedure No. FNP-0-NDE-100.22			
Revision No. <i>2</i>			
Examiner <i>Scott R. Erickson</i>	Level <i>II</i>		
Examiner <i>N/A</i>	Level <i>N/A</i>		
Date (Month-Day-Year) <i>3-13-00</i>			
SKETCH			
Examination (Per Para. 7.5)			
<input type="checkbox"/> Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas <i>SEE FIGURE 2 - PAGE 2 OF 2</i>			
Comments <i>REF. RR-27</i>			

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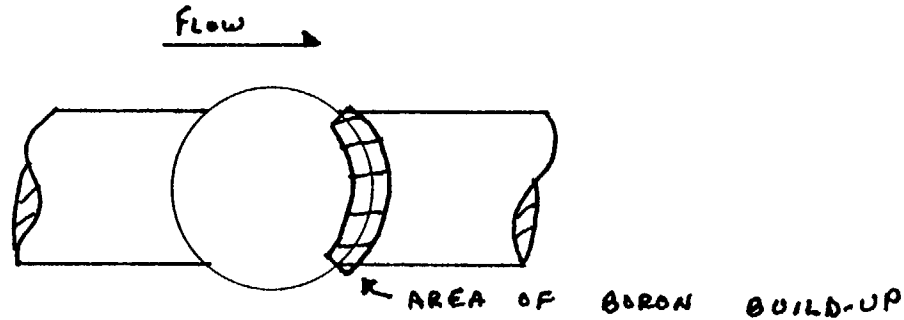
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1E21V077B	Drawing Number D-351115 SMT.1		
WO/WA No. 99008135	Date (Month-Day-Year) 3-13-00	Examiner Scott R. Erickson	Level II	Location CTMT LOOP 2 126' EL.
Procedure No. FNP-0-NDE-100.22				
Revision No. 2				



Comments: LIGHT DRY BORON BUILD-UP ON GASKET AREA.

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FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package TPMS QIEZIFDZBB6A	Drawing Number D-351115 SHT. 1		
WO(WA)No. W00600211		System Boundaries SAFETY INJECTION TO RCS LOOP 3 COLD LEG FLOW ORIFICE BOLTED CONNECTION.			
Procedure No. FNP-0-NDE-100.22					
Revision No. 2					
Examiner Scott R. Erickson	Level II				
Examiner N/A	Level N/A				
Date (Month-Day-Year) 3-4-00					
SKETCH					
Examination (Per Para. 7.5) _____ Sat <input checked="" type="checkbox"/> *Unsat					
*Provide details on unsat areas SEE FIGURE 2 - PAGE 2 OF 2					
Comments REF. RR-27					

SHARED

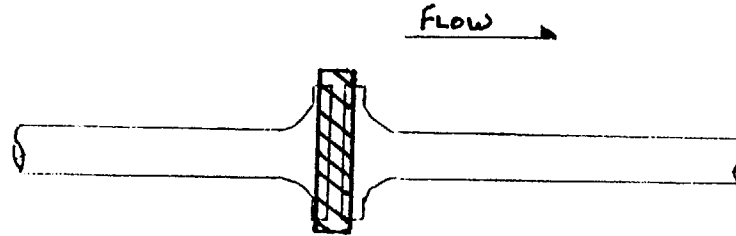
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1E21FD 2886A		Drawing Number D-351115 SHT.1	
WO/WA No. W00600211	Date (Month-Day-Year) 3-4-00	Examiner Scott R. Erickson	Level II	Location CTMT OMB 114'EL.
Procedure No. FNP-0-NDE-100.22				
Revision No. 2				



Comments: HEAVY DRY BORON ^{SPE 3-10-99} ~~BOLTS~~ BUILD-UP ON GASKET AND BOLTING.

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FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1		Data Package <i>TPNS</i> <i>Q1E21V038A</i>	Drawing Number <i>D-35115</i> <i>SHT. 2</i>		
WO/WA No. <i>W00600211</i>		System Boundaries <i>'A' ACCUMULATOR TO RCS COLD LEG LOOP 1</i> <i>ISOLATION VALVE BODY TO BONNET JOINT.</i>			
Procedure No. FNP-0-NDE-100.22					
Revision No. <i>2</i>					
Examiner <i>Scott R. Erickson</i>	Level <i>II</i>				
Examiner <i>N/A</i>	Level <i>N/A</i>				
Date (Month-Day-Year) <i>3-4-00</i>					
SKETCH					
Examination (Per Para. 7.5) _____ Sat <input checked="" type="checkbox"/> *Unsat					
*Provide details on unsat areas <i>SEE FIGURE 2 - PAGE 2 OF 2</i>					
Comments <i>REF. RR-27</i>					

SHARED

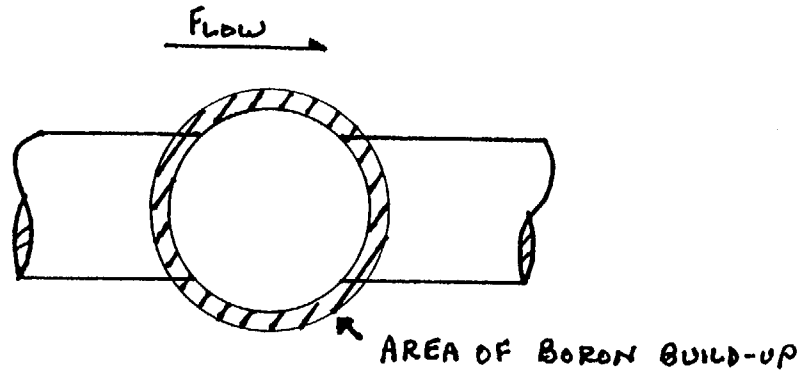
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1EZ1V038A		Drawing Number D-351115 SMT.2	
WO(A) No. W00600211	Date (Month-Day-Year) 3-4-00	Examiner Scott R. Erickson	Level II	Location CTMT OMB 107' EL.
Procedure No. FNP-0-NDE-100.22				
Revision No. 2				



Comments: LIGHT DRY BORON BUILD-UP ON GASKET AREA.

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FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY //		Data Package TPNS 01E11V044	Drawing Number D-35115 SHT.2		
WO(WA) No. W00600211		System Boundaries SAFETY INJECTION TO RCS HOT LEGS ISOLATION VALVE BODY TO BONNET JOINT.			
Procedure No. FNP-0-NDE-100.22					
Revision No. 2					
Examiner <i>[Signature]</i>	Level II				
Examiner N/A	Level N/A				
Date (Month-Day-Year) 3-9-00					
SKETCH					
Examination (Per Para. 7.5) _____ Sat <input checked="" type="checkbox"/> *Unsat					
*Provide details on unsat areas SEE FIGURE 2 - PAGE 2 OF 2					
Comments REF. RR-27					

02/28/00 07:55:50

SHARED

FNP-0-NDE-100.22
RTYPE: L1.09

FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11	Line Number/Examination Area/Weld No. Q1E11 V044		Drawing Number D-35115 SHR2	
WO/WA No. W00600211	Date (Month-Day-Year) 3-9-00	Examiner <i>Paul A. Adams</i>	Level	Location
Procedure No. FNP-0-NDE-100.22			II	AB 121'EL. Rm 223
Revision No. 2				

Flow →

← AREA OF BORON BUILD-UP

Comments: MODERATE DRY BORON BUILD-UP ON GASKET AREA.

Page 2 of 2

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package ^{TPNS} 01813V003	Drawing Number D-35114 SNT.1
WO#WA No. 99008131		System Boundaries CVCS NORMAL LETDOWN VALVE BODY TO BONNET JOINT.	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Eichhorn	Level II	 	
Examiner N/A	Level N/A		
Date (Month-Day-Year) 3-7-00			
SKETCH			
Examination (Per Para. 7.5) _____ Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas SEE FIGURE 2 - PAGE 2 OF 2			
Comments REF. RR-27			

SHARED

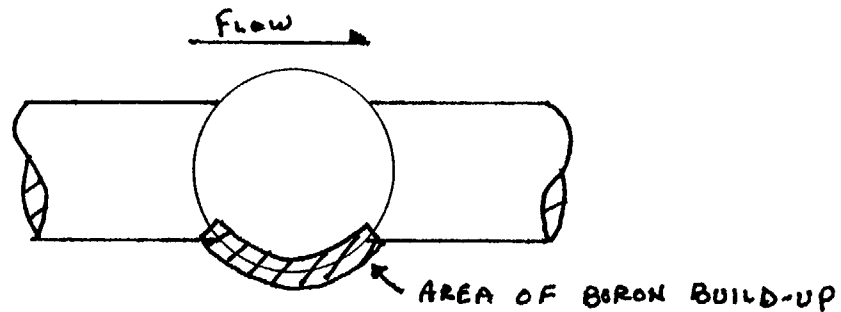
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1B13 V003	Drawing Number D-351114 SHT.1	
WO/WA No. 99008131	Date (Month-Day-Year) 3-7-00	Examiner Scott R. Erickson	Level II
Procedure No. FNP-0-NDE-100.22			Location CTMT LOOP 1 106'EL.
Revision No. 2			



Comments: LIGHT DRY BORON BUILD-UP ON GASKET AREA AND BOLTING AND VALVE BODY

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /	Line Number/Examination Area/Weld No. <i>Q1E11V051C</i>			Drawing Number <i>N/A</i>		Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video		WO/WA <i>20001774</i>
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level		Examiner/Initial <i>SCOTT R. ERICKSON</i> Level <i>II</i> Sig. <i>SCOTT R. ERICKSON</i> Examiner/Initial <i>N/A</i> Level _____ Sig. <i>N/A</i> Date (Month-Day-Year) <i>03-21-00</i>		
N/A WELDS & BASE MATERIAL VT-1				BOLTS, STUDS, AND WASHERS VT-1				
SAT UN-SAT N/A Ground Blend Material _____ _____ _____ Undercut _____ _____ _____ Corrosion build-Up _____ _____ _____ Gouges _____ _____ _____ Evidence of Leakage _____ _____ _____ Arc Strikes _____ _____ _____ Cracks _____ _____ _____ Other ** _____ _____ _____				SAT UN-SAT N/A Loose Members _____ _____ <input checked="" type="checkbox"/> Cracks _____ _____ _____ Corrosion <input checked="" type="checkbox"/> _____ _____ Gouges <input checked="" type="checkbox"/> _____ _____ Thread Damage <input checked="" type="checkbox"/> _____ _____ Deformation <input checked="" type="checkbox"/> _____ _____ Protective Coating <input checked="" type="checkbox"/> _____ _____ Evidence of Leakage _____ _____ _____ Other** _____ _____ <input checked="" type="checkbox"/>				
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined				† MINDA TOOL MARKS ON NUT SEE 3-21-00				

Comments *EXAMINED (1) STUD AFTER REMOVAL FOR INSPECTION. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREAD SURFACES NOTED AT THE TIME OF EXAM.*

SHARED

FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /		Line Number/Examination Area/Weld No. Q1E11 V051C			Drawing Number N/A			Sheet No.									
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA 20001774		Procedure No. FNP-0-NDE-100.23								
							Revision No. 3		Examiner/Initial SCOTT R. ERICKSON	Level II							
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		<input type="checkbox"/> Level		Examiner/Initial N/A	Level							
							Date (Month-Day-Year) 03-21-00										
N/A SNUBBERS VT-3			SAT	UN-SAT	N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3			SAT	UN-SAT	N/A	N/A HANGER & SUPPORTS VT-3			SAT	UN-SAT	N/A
Loose Bolt or Pin Connections			___	___	___	Pitting			___	___	___	Setting:			___	___	___
Shaft Seal			___	___	___	Corrosion			___	___	___	Hot ___ Cold ___			___	___	___
Fluid Leakage			___	___	___	Erosion			___	___	___	Misalignment			___	___	___
Fluid Tubing Condition			___	___	___	Foreign Material			___	___	___	Damaged Members			___	___	___
Shaft Cleanliness			___	___	___	Gouged Parts			___	___	___	Gouges			___	___	___
Spherical Bearings			___	___	___	Wear			___	___	___	Arc Strikes			___	___	___
Cotter & Clevis Pins Intact			___	___	___	Evidence of Leakage			___	___	___	Grind Marks			___	___	___
Other**			___	___	___	Other Cracks**			___	___	___	Freedom of Movement			___	___	___
* Provide details on unsat areas by use of supplemental data sheet.						* MINOR TOOL MARKS ON NUT SRE 3-21-00						Other**			___	___	___
Comments EXAMINED (1) STUD AFTER REMOVAL FOR INSPECTION. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREAD SURFACES AT THE TIME OF THE EXAM.																	

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E21V367	Drawing Number N/A	Sheet No.																																																																																						
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote																																																																																						
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level																																																																																						
WO/WA 20001826 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial <u>SCOTT R. ERICHOON</u> Level <u>II</u> Sig. <u>Scott R. Erichoon</u>		Examiner/Initial _____ Level <u>N/A</u> Sig. <u>N/A</u> Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;">3-22-00</p>																																																																																							
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<u>N/A</u> WELDS & BASE MATERIAL VT-1	SAT	UN-SAT	N/A	<input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1	SAT	UN-SAT	N/A																																																																																		
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Comments <u>EXAMINED (1) STUD AFTER REMOVAL FROM VALVE BODY. EXAMINED (5) STUDS IN PLACE. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED. SPE 3-22-00</u>																																																																																									

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11	Line Number/Examination Area/Weld No. Q1E21V367	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge	
Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;">3-22-00</p>	
WO/WA 20001826 Procedure No. FNP-0-NDE-100.23 Revision No. 3		Examiner/Initial SCOTT R. ERICKSON Level II Sig. SCOTT R. ERICKSON	
Examiner/Initial N/A Level N/A Sig. N/A		Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;">3-22-00</p>	
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	SAT UN-SAT N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	SAT UN-SAT N/A
N/A HANGER & SUPPORTS VT-3 Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**	SAT UN-SAT N/A		SAT UN-SAT N/A

Comments **EXAMINED FLANGE, GASKET SEATING AREA AND (5) BOLTS IN PLACE-SAT. EXAMINED (1) BOLT AFTER REMOVAL FROM VALVE BODY-SAT. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES. NOTED. SEE 3-22-00**

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1		Line Number/Examination Area/Weld No. Q1E21 V077 C			Drawing Number N/A			Sheet No.				
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			WO/WA 20001838 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial M. GRELL Sig. Manfred Grell			Level II	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge	<input type="checkbox"/> Level		Examiner/Initial Sig. N/A Date (Month-Day-Year) 3-29-00			Level	
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**				SAT UN-SAT N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			SAT UN-SAT N/A	N/A HANGER & SUPPORTS VT-3 Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			SAT UN-SAT N/A
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.				Examined (1) stud when removed from valve body. Remaining studs examined in place.								
Comments examined studs & nuts along with gasket seating surfaces. No abnormalities noted @ time of exam. * minor surface corrosion & tool marks noted on studs and nuts												

10/15/99 3:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. QIEZ1V077C			Drawing Number N/A		Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA 20001838 Procedure No. FNP-0-NDE-100.21 Revision No. 1	
		Examiner/Initial M. G. REED Sig. <i>M. G. Reed</i> Level <input checked="" type="checkbox"/>		Examiner/Initial Sig. N/A Level		Date (Month-Day-Year) 3-29-00	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge					
N/A WELDS & BASE MATERIAL VT-1			SAT	UN-SAT	N/A		
Ground Blend Material			—	—	—		
Undercut			—	—	—		
Corrosion build-Up			—	—	—		
Gouges			—	—	—		
Evidence of Leakage			—	—	—		
Arc Strikes			—	—	—		
Cracks			—	—	—		
Other **			—	—	—		
* Provide details on unsat areas by use of supplemental data sheet.							
** Provide details on other areas examined							
			* minor surface corrosion & tool marks noted on studs & Nuts				
Comments: no visible wastage of cross sectional area or threaded surface noted @ time of exam. examined 1 STUD after removal from valve body, remaining studs examined I/P ME 3-29-00							

SHAWED

FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>Farley 1</i>		Line Number/Examination Area/Weld No. <i>Q1E21V077A</i>				Drawing Number <i>N/A</i>			Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			WO/WA <i>20001938</i>		
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper			<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level			Procedure No. <i>FNP-0-NDE-100.23</i>	
							Revision No. <i>3</i>				
							Examiner/Initial Sig. <i>M. GRELL</i> <i>Maufd Hall</i>		Level <i>II</i>		
							Examiner/Initial Sig. <i>N/A</i>		Level		
							Date (Month-Day-Year) <i>4-3-00</i>				
<i>N/A</i> SNUBBERS VT-3 SAT UN-SAT N/A Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**				<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**				<i>N/A</i> HANGER & SUPPORTS VT-3 SAT SAT N/A Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.				<i>examined 1 stud removed, remaining 1/p</i>							
Comments <i>examined studs and gasket mating surfaces, no anomalies noted @ time of exam M4.3.00</i>											

10/15/99 3:46

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FNP-0 E-100.21
RTYPE: L1.09

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1		Line Number/Examination Area/Weld No. Q1E2V077A			Drawing Number N/A		Sheet No.																																																																												
Photos ___ Yes ___ B&W <input checked="" type="checkbox"/> No ___ Color		Sketch ___ Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) ___ 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct ___ Remote ___ Video		WO/WA 2000 1938 Procedure No. FNP-0-NDE-100.21 Revision No. 1																																																																											
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<p>Comments no visible wastage of cross sectional area or threaded surfaces noted @ time of exam MM 4-3-00</p>																																																																																			

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11	Line Number/Examination Area/Weld No. Q1E21V246	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge	
Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		(WO)WA 20001943 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial SCOTT R. ERICKSON Level II Sig. Scott R. Erickson Examiner/Initial N/A Level N/A Sig. N/A Date (Month-Day-Year) <p style="text-align: center;">3-27-00</p>	
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	SAT UN-SAT N/A <input checked="" type="checkbox"/> _____ _____ <input checked="" type="checkbox"/> _____ _____ <input checked="" type="checkbox"/> _____ _____ <input checked="" type="checkbox"/> _____ _____ <input checked="" type="checkbox"/> _____ _____ <input checked="" type="checkbox"/> _____ _____ <input checked="" type="checkbox"/> _____ _____ _____ _____ <input checked="" type="checkbox"/>
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.		N/A HANGER & SUPPORTS VT-3 Setting: Hot _____ Cold _____ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**	
Comments EXAMINED FLANGE, GASKET SEATING AREA, (5) STUDS IN PLACE, (1) STUD AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 3-27-00			

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1E21V246			Drawing Number N/A		Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		(WO)WA 20001943 Procedure No. FNP-0-NDE-100.21 Revision No. 1		
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper	<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge	<input type="checkbox"/> Level	Examiner/Initial Scott R. Erickson Sig. Scott R. Erickson	Level II	
					Examiner/Initial Sig. N/A	Level N/A	
					Date (Month-Day-Year) 3-27-00		
N/A WELDS & BASE MATERIAL VT-1			SAT UN-SAT N/A	✓ BOLTS, STUDS, AND WASHERS VT-1			
Ground Blend Material			___ ___ ___	Loose Members			
Undercut			___ ___ ___	Cracks			
Corrosion build-Up			___ ___ ___	Corrosion			
Gouges			___ ___ ___	Gouges			
Evidence of Leakage			___ ___ ___	Thread Damage			
Arc Strikes			___ ___ ___	Deformation			
Cracks			___ ___ ___	Protective Coating			
Other **			___ ___ ___	Evidence of Leakage			
				Other**			

* Provide details on unsat areas by use of supplemental data sheet.
 ** Provide details on other areas examined

Comments **EXAMINED (5) STUDS IN PLACE, (1) STUD AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 3-27-00**

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY/1		Line Number/Examination Area/Weld No. Q1E21V077B			Drawing Number N/A		Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA 20001946 Procedure No. FNP-0-NDE-100.23 Revision No. 3			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level		Examiner/Initial Sig. M. GRELL Manfred Grell		Level #	
Date (Month-Day-Year) 4/3/00		Examiner/Initial Sig. N/A		Level						
N/A SNUBBERS VT-3 SAT UN-SAT N/A			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A			N/A HANGER & SUPPORTS VT-3 SAT UN-SAT N/A				
Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**				
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.			Examined 12 studs total. 9 1/P and 3 removed from Valve body.							
Comments Examined 12 STUDS - 12 NUTS and valve & bonnet Gasket surfaces. no abnormalities noted @ Time of exam. M54-3-00										

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY UNIT 1		Line Number/Examination Area/Weld No. N1E11 FO 2886A				Drawing Number N/A		Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA 20001570 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial M. GRELL Sig. Mauld Hill	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		Examiner/Initial Sig. N/A Date (Month-Day-Year) 3/26/00	
N/A SNUBBERS VT-3 SAT UN-SAT N/A Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**		SAT UN-SAT N/A <input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**		SAT UN-SAT N/A N/A HANGER & SUPPORTS VT-3 Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**					

all studs & nut had minor surface corrosion and tool marks M/3-26-00

Comments *examined all studs and nut after disassembly - examined all gasket seating surfaces. no abnormalities noted @ time of exam. M/3-26-00*

10/15/99 3:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. N1E11 FO 2886A	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote
			WO/WA 20001570 Procedure No. FNP-0-NDE-100.21 Revision No. 1
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level	Examiner/Initial M. GRELL Sig. <i>Mantel Hill</i> Level <i>II</i>
			Examiner/Initial Sig. N/A Level
			Date (Month-Day-Year) 3-26-00
N/A WELDS & BASE MATERIAL VT-1			UN-SAT N/A
Ground Blend Material SAT UN-SAT N/A			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Undercut SAT UN-SAT N/A			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Corrosion build-Up SAT UN-SAT N/A			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Gouges SAT UN-SAT N/A			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Evidence of Leakage SAT UN-SAT N/A			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Arc Strikes SAT UN-SAT N/A			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Cracks SAT UN-SAT N/A			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other ** SAT UN-SAT N/A			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
* Provide details on unsat areas by use of supplemental data sheet.			UN-SAT N/A
** Provide details on other areas examined			<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
Comments <i>examined all studs and nuts after disassembly. No visible signs of wastage of cross sectional area or threaded surfaces noted @ time of exam. MWS 3-26-00</i>			

BOLTS, STUDS, AND WASHERS VT-1	SAT	UN-SAT	N/A
Loose Members	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cracks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Corrosion	<input checked="" type="checkbox"/> *	<input type="checkbox"/>	<input type="checkbox"/>
Gouges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thread Damage	<input checked="" type="checkbox"/> *	<input type="checkbox"/>	<input type="checkbox"/>
Deformation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Protective Coating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evidence of Leakage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other**	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

* minor corrosion & tool marks noted on all studs & Nuts MWS 3-26-00
 Examined studs and Nuts after Flow orifice disassembly

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E21V 038A	Drawing Number N/A	Sheet No.																																																																																																															
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote																																																																																																															
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level	WO/WA 20001669 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial M. GRELL Sig. <i>Manfred Grell</i> Level II Examiner/Initial N/A Level Sig. N/A Date (Month-Day-Year) 3-22-00																																																																																																															
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">N/A SNUBBERS VT-3</td> <td style="width:11%; text-align:center;">SAT</td> <td style="width:11%; text-align:center;">UN-SAT</td> <td style="width:11%; text-align:center;">N/A</td> </tr> <tr> <td>Loose Bolt or Pin Connections</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Shaft Seal</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Fluid Leakage</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Fluid Tubing Condition</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Shaft Cleanliness</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Spherical Bearings</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Cotter & Clevis Pins Intact</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Other**</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> </table>	N/A SNUBBERS VT-3	SAT	UN-SAT	N/A	Loose Bolt or Pin Connections	---	---	---	Shaft Seal	---	---	---	Fluid Leakage	---	---	---	Fluid Tubing Condition	---	---	---	Shaft Cleanliness	---	---	---	Spherical Bearings	---	---	---	Cotter & Clevis Pins Intact	---	---	---	Other**	---	---	---	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;"><input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3</td> <td style="width:11%; text-align:center;">SAT</td> <td style="width:11%; text-align:center;">UN-SAT</td> <td style="width:11%; text-align:center;">N/A</td> </tr> <tr> <td>Pitting</td> <td style="text-align:center;">✓</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Corrosion</td> <td style="text-align:center;">✓</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Erosion</td> <td style="text-align:center;">✓</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Foreign Material</td> <td style="text-align:center;">✓</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Gouged Parts</td> <td style="text-align:center;">✓</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Wear</td> <td style="text-align:center;">✓</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Evidence of Leakage</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">✓</td> </tr> <tr> <td>Other Cracks**</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">✓</td> </tr> </table>	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3	SAT	UN-SAT	N/A	Pitting	✓	---	---	Corrosion	✓	---	---	Erosion	✓	---	---	Foreign Material	✓	---	---	Gouged Parts	✓	---	---	Wear	✓	---	---	Evidence of Leakage	---	---	✓	Other Cracks**	---	---	✓	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">N/A HANGER & SUPPORTS VT-3</td> <td style="width:11%; text-align:center;">SAT</td> <td style="width:11%; text-align:center;">UN-SAT</td> <td style="width:11%; text-align:center;">N/A</td> </tr> <tr> <td>Setting:</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Hot ___ Cold ___</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Misalignment</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Damaged Members</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Gouges</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Arc Strikes</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Grind Marks</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Freedom of Movement</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> <tr> <td>Other**</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> <td style="text-align:center;">---</td> </tr> </table>	N/A HANGER & SUPPORTS VT-3	SAT	UN-SAT	N/A	Setting:	---	---	---	Hot ___ Cold ___	---	---	---	Misalignment	---	---	---	Damaged Members	---	---	---	Gouges	---	---	---	Arc Strikes	---	---	---	Grind Marks	---	---	---	Freedom of Movement	---	---	---	Other**	---	---	---
N/A SNUBBERS VT-3	SAT	UN-SAT	N/A																																																																																																															
Loose Bolt or Pin Connections	---	---	---																																																																																																															
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Freedom of Movement	---	---	---																																																																																																															
Other**	---	---	---																																																																																																															
Comments Examined (1) STUD after removal from Valve body. STUD & ASSOCIATED NUT had only minor tool marks. Value not disassembled no further Visuals performed MB 3-22-00																																																																																																																		

10/15/99 13:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q 1E2N038A			Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote	
		WO/WA 2000 1669 Procedure No. FNP-0-NDE-100.21 Revision No. 1		Examiner/Initial M. GRELL Sig. <i>Marked</i> <input type="checkbox"/> Level #	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level		Examiner/Initial Sig. N/A Level
					Date (Month-Day-Year) 3-22-00
N/A WELDS & BASE MATERIAL VT-1			SAT	UN-SAT	N/A
Ground Blend Material			---	---	---
Undercut			---	---	---
Corrosion build-Up			---	---	---
Gouges			---	---	---
Evidence of Leakage			---	---	---
Arc Strikes			---	---	---
Cracks			---	---	---
Other **			---	---	---
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined					
			NUT & STUD had minor tool marks MMS 3-22-00		
Comments examined 1 STUD & NUT after removal from Valve Body. No Visible Wastage of Cross sectional area or threaded surfaces noted @ time of exam. MMS 3-22-00					

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. 01E11V044			Drawing Number N/A			Sheet No.										
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		<input checked="" type="checkbox"/> W/WA 20001706 Procedure No. FNP-0-NDE-100.23 Revision No. 3									
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level		Examiner/Initial SCOTT R. ERICSON Level III Sig. SCOTT R. ERICSON Examiner/Initial N/A Level N/A Sig. N/A Date (Month-Day-Year) <p style="text-align: center;">3-22-00</p>									
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			SAT UN-SAT N/A _____			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			SAT UN-SAT N/A _____			N/A HANGER & SUPPORTS VT-3 Setting: Hot _____ Cold _____ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			SAT UN-SAT N/A _____		

Comments **EXAMINED FLANGE, GASKET SEATING SURFACE AND (15) STUDS IN PLACE - SAT. EXAMINED (1) STUD AFTER REMOVAL FROM VALVE BODY - NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED. SRE 3-22-00**

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E11V044	Drawing Number N/A	Sheet No.																																																																																								
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote																																																																																								
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level																																																																																								
		WO/WA 20001706 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial SCOTT R. ERICKSON Level II Sig. SCOTT R. ERICKSON Examiner/Initial N/A Level N/A Sig. N/A Date (Month-Day-Year) 3-22-00																																																																																									
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%;">SAT</th> <th style="width: 10%;">UN-SAT</th> <th style="width: 10%;">N/A</th> <th style="width: 50%;"></th> <th style="width: 10%;">SAT</th> <th style="width: 10%;">UN-SAT</th> <th style="width: 10%;">N/A</th> </tr> </thead> <tbody> <tr> <td>N/A WELDS & BASE MATERIAL VT-1</td> <td></td> <td></td> <td></td> <td>✓ BOLTS, STUDS, AND WASHERS VT-1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ground Blend Material</td> <td>—</td> <td>—</td> <td>—</td> <td>Loose Members</td> <td>—</td> <td>—</td> <td>✓</td> </tr> <tr> <td>Undercut</td> <td>—</td> <td>—</td> <td>—</td> <td>Cracks</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Corrosion build-Up</td> <td>—</td> <td>—</td> <td>—</td> <td>Corrosion</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Gouges</td> <td>—</td> <td>—</td> <td>—</td> <td>Gouges</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Evidence of Leakage</td> <td>—</td> <td>—</td> <td>—</td> <td>Thread Damage</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Arc Strikes</td> <td>—</td> <td>—</td> <td>—</td> <td>Deformation</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Cracks</td> <td>—</td> <td>—</td> <td>—</td> <td>Protective Coating</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Other **</td> <td>—</td> <td>—</td> <td>—</td> <td>Evidence of Leakage</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Other**</td> <td>—</td> <td>—</td> <td>✓</td> </tr> </tbody> </table>					SAT	UN-SAT	N/A		SAT	UN-SAT	N/A	N/A WELDS & BASE MATERIAL VT-1				✓ BOLTS, STUDS, AND WASHERS VT-1				Ground Blend Material	—	—	—	Loose Members	—	—	✓	Undercut	—	—	—	Cracks	—	—	—	Corrosion build-Up	—	—	—	Corrosion	✓	—	—	Gouges	—	—	—	Gouges	✓	—	—	Evidence of Leakage	—	—	—	Thread Damage	✓	—	—	Arc Strikes	—	—	—	Deformation	✓	—	—	Cracks	—	—	—	Protective Coating	✓	—	—	Other **	—	—	—	Evidence of Leakage	—	—	—					Other**	—	—	✓
	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A																																																																																				
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				Other**	—	—	✓																																																																																				
Comments EXAMINED (1) STUD AFTER REMOVAL FROM VALVE BODY. EXAMINED (15) STUDS IN PLACE. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED. SEE 3-22-00																																																																																											

* Provide details on unsat areas by use of supplemental data sheet.
 ** Provide details on other areas examined

SHARED

FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>FARLEY 1</i>	Line Number/Examination Area/Weld No. <i>Q1B13V003</i>			Drawing Number <i>N/A</i>			Sheet No.										
Photos ___ Yes ___ B&W <input checked="" type="checkbox"/> No ___ Color		Sketch ___ Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) ___ 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct ___ Video ___ Remote		WO/WA <i>20002011</i>									
						Procedure No. <i>FNP-0-NDE-100.23</i>		Revision No. <i>3</i>									
						Examiner/Initial Sig. <i>Pam & Valero</i>		Level <i>II</i>									
Equipment <input checked="" type="checkbox"/> Mirror ___ Magnifier ___ CCTV		Lighting ___ Ambient <input checked="" type="checkbox"/> Flashlight ___ Droplight		Tools <input checked="" type="checkbox"/> Scale ___ Micrometer ___ Caliper		___ Depth Gauge ___ Comparator ___ Weld Gauge		Examiner/Initial Sig. <i>N/A</i>									
						___ Level		Date (Month-Day-Year) <i>04-20-00</i>									
___ SNUBBERS VT-3			SAT	UN-SAT	N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3			SAT	UN-SAT	N/A	<input checked="" type="checkbox"/> HANGER & SUPPORTS VT-3			SAT	UN-SAT	N/A
Loose Bolt or Pin Connections			___	___	___	Pitting			<input checked="" type="checkbox"/>	___	___	Setting:			___	___	___
Shaft Seal			___	___	___	Corrosion			<input checked="" type="checkbox"/>	___	___	Hot ___ Cold ___			___	___	___
Fluid Leakage			___	___	___	Erosion			<input checked="" type="checkbox"/>	___	___	Misalignment			___	___	___
Fluid Tubing Condition			___	___	___	Foreign Material			<input checked="" type="checkbox"/>	___	___	Damaged Members			___	___	___
Shaft Cleanliness			___	___	___	Gouged Parts			* <input checked="" type="checkbox"/>	___	___	Gouges			___	___	___
Spherical Bearings			___	___	___	Wear			<input checked="" type="checkbox"/>	___	___	Arc Strikes			___	___	___
Cotter & Clevis Pins Intact			___	___	___	Evidence of Leakage			___	___	<input checked="" type="checkbox"/>	Grind Marks			___	___	___
Other**			___	___	___	Other Cracks**			___	___	<input checked="" type="checkbox"/>	Freedom of Movement			___	___	___
* Provide details on unsat areas by use of supplemental data sheet.												Other**			___	___	___
** Provide details on other areas examined.																	
Comments <i>EXAMINED FLANGE AND GASKET SURFACES * MINOR DENT ON FLANGE 1/16" LONG OUTSIDE OF SEALING SURFACE AREA. DOES NOT AFFECT GASKET AREA. SAT PD 4-20-00</i>																	

03/18/00 13:55:19

SHARED
FIGURE 1

FNP-0-NDE-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /	Line Number/Examination Area/Weld No. <i>Q1B13V003</i>			Drawing Number <i>N/A</i>		Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video		WO/WA <i>20002011</i> Procedure No. FNP-0-NDE-100.21 Revision No. <i>1</i>	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge		Examiner/Initial Sig. <i>[Signature]</i> Level <i>II</i> Examiner/Initial Sig. <i>N/A</i> Level Date (Month-Day-Year) <i>04-20-00</i>		
WELDS & BASE MATERIAL VT-1				BOLTS, STUDS, AND WASHERS VT-1				
	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A	
Ground Blend Material	—	—	—	Loose Members	—	—	✓	
Undercut	—	—	—	Cracks	✓	—	—	
Corrosion build-Up	—	—	—	Corrosion	✓	—	—	
Gouges	—	—	—	Gouges	✓	—	—	
Evidence of Leakage	—	—	—	Thread Damage	✓	—	—	
Arc Strikes	—	—	—	Deformation	✓	—	—	
Cracks	—	—	—	Protective Coating	—	—	—	
Other **	—	—	—	Evidence of Leakage	—	—	✓	
				Other**	—	—	✓	
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined								
Comments <i>EXAMINED 5 STUDS REMOVED AND 7 STUDS IN PLACE ALSO 12 NUTS</i>								

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 009 Date 3/27/00

PART I FINDINGS

Sketch Ref: ALA2-4101 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7

Item No. 2

Component Inspected: Pipe to Elbow (Main Steam)

Description of Indication _____

During ultrasonic inspection of weld ALA2-4101-2 (Elbow to Pipe), a reflector was recorded per procedure with a peak amplitude of 50% DAC.

Prepared By Danny Cordes SNC L/III *DRC*

Date 03/27/2000

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ID Geometry

Bases: Evaluated as geometry per ASME Article III-4512.

Typical ultrasonic ID reflector due to piping configuration (reference the ultrasonic data report S00F1U191).

0

Review of Previous Examinations: Data compares with 1988 examination report. (IER 008)

NDE Inspector Danny Cordes *DRC*

Certification Level III

Date 03/27/00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Typical geometric reflector produced during fabrication and installation.

Action Required to Correct Indication: None Required

None Required

MSR Number: N/A

LER Yes No X 10CFR 21 Yes No X

Corrective Action Taken:

None Required

Corrective Action Initiated to Prevent Recurrence:

None Required

Prepared By *Daniel P. Lefebvre* Date 3-28-00

Approved By *Z. J. Smith* Date 3/30/00

ANTI REVIEW: C. G. W. 3/30/00

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 010 Date 3/27/00

PART I FINDINGS

Sketch Ref: ALA2-4523 NDE Method: PT Procedure/Rev. FNP-0-NDE-100.5 Rev. 6
Item No. Weld 5
Component Inspected: Elbow to Valve
Description of Indication _____

During liquid penetrant examination of the elbow to valve weld, a 3/32" rounded indication was recorded, per procedure, located on the valve body.

Prepared By Danny Cordes SNC L/III *DC* Date 03/27/00

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ASME Code acceptable surface indications.

Bases: The acceptance standard for C5.21 (C-F-1) is Section XI paragraph IWC-3514, which is in course of preparation. The standards of IWB-3514 were applied.

ASME Section XI does not address "rounded" surface indications. The indications are, therefore, classified as linear and evaluated per table IWB-3514-2. The indication is located on the valve body. The measured wall thickness for the adjoining line is 0.44" (ref ISI T&C report S00F1U149). Conservatively, the acceptable size for a wall thickness of 0.312" is 0.2". Therefore, the indication of 0.094" (3/32) is well within the acceptance range.

Review of Previous Examinations: _____

No previous record of surface indications for this weld.

NDE Inspector Danny Cordes L/III *DC* Certification Level III Date 03/27/00

UNIT 1

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Unknown. Although this type of surface for castings is common.

Action Required to Correct Indication: None Required, leave as is.

MSR Number: N/A

LER Yes No 10CFR 21 Yes No

Corrective Action Taken:

None Required

Corrective Action Initiated to Prevent Recurrence:

None Required

Prepared By *Harold Riffles* Date 3-28-00

Approved By *RC Ford* Date 3/30/00

ANZI REVIEW: EG Ward 3/30/00

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FNP-0-NDE-100.5

PT-F-Form 001

Farley Nuclear Plant

Liquid Penetrant Examination Record

Southern Nuclear Operating Company

Unit 1	Component Number ALA2-4523-5	Procedure/Rev./TCN FNP-0-NDE-100.5 / 6 / N/A	Sheet No. S00F1P029				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> Thermometer Mfg. / Ser. No. PTC / 38081 Cal. Due Date 8/27/2000 Surface Temp. 78 °F </td> <td style="width: 50%;"> Penetrant Materials Manufacturer MAGNAFLUX Cleaner/Remover Penetrant Developer </td> </tr> <tr> <td> Type SKC-S SKL-SP SKD-S2 </td> <td> Batch 98A10K 93D12K 96J08K </td> </tr> </table>		Thermometer Mfg. / Ser. No. PTC / 38081 Cal. Due Date 8/27/2000 Surface Temp. 78 °F	Penetrant Materials Manufacturer MAGNAFLUX Cleaner/Remover Penetrant Developer	Type SKC-S SKL-SP SKD-S2	Batch 98A10K 93D12K 96J08K	Page <u>1</u> of <u>1</u>	
Thermometer Mfg. / Ser. No. PTC / 38081 Cal. Due Date 8/27/2000 Surface Temp. 78 °F	Penetrant Materials Manufacturer MAGNAFLUX Cleaner/Remover Penetrant Developer						
Type SKC-S SKL-SP SKD-S2	Batch 98A10K 93D12K 96J08K						
Component Configuration ELBOW TO VALVE		% of Length Coverage 100%	Date 3/22/00				
% of Area Coverage 100%							
Ind. No. N/A	Results RI	Indication Desc. / Exam Limitations / etc. 3/32" ROUNDED .49" FROM TOE ON VALVE BODY @ 90°CW FROM TDC.	Remarks NONE				

Remarks: **NONE DAC 3-27-00 CODE ACCEPTABLE SURFACE INDICATION. SEE IER 1R16 010. DAC 3-27-00**

Primary Examiner JOSEPH D. FUNYAK	ASNT Level II	Initials JDF	Assistant Examiner N/A	ASNT Level N/A	Initials 	Non-Technical Review <i>[Signature]</i>	Date 3-30-00
SNC/NDE Level II/III Review <i>[Signature]</i>		Date 3-24-00	Percentage of Code Coverage 100 %	ANII Review <i>[Signature]</i>		Date 3/30/00	

Figure 1

SHARED

**FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record**

**FNP-0-NDE-100.31
Southern Nuclear Operating Company**

Unit	Sketch/Component No.	Date	Sheet No.
1	ALA2-4101-2	3/25/00	S00F1U191
Procedure/Rev./TCN	Couplant/Batch No.	Thermometer SN/Cal Due Date	Linearity Sheet No.
FNP-0-NDE-100.31 / 7 / N/A	SONOTRACE 40 / 94243	38081 / 8/27/2000	S00F1L003

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-24	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-898K	Serial No.	009KTL	Thickness	1.20"	1T	80	2.0	1.19	1T	80	2.0	1.25
Ax. dB		Size	.50	Cal. Temp.	68°	2T	40	4.0	2.30	2T	35	4.05	2.45
Ref.	30	Frequency/Mode	2.25 / S	Cal. In	0845	3T	30	6.0	3.45	3T	25	6.1	3.70
Scan	42	"A" Dimension	0.5"	Cal. Chk.	0950	4T	15	8.0	4.70	4T	10	8.1	4.70
Reject	OFF	Nominal Angle	45	Cal. Out	1010	Calibration Remarks:							
Frequency	2.25	Measured Angle	45	Ref. Blk. No.	796484	NONE							
Mode	P/E	Cable Type	RG174	Reflector	HOLE								
Damping	500 OHMS	Cable Length	12'	Amplitude/Sweep	20%/1.2								

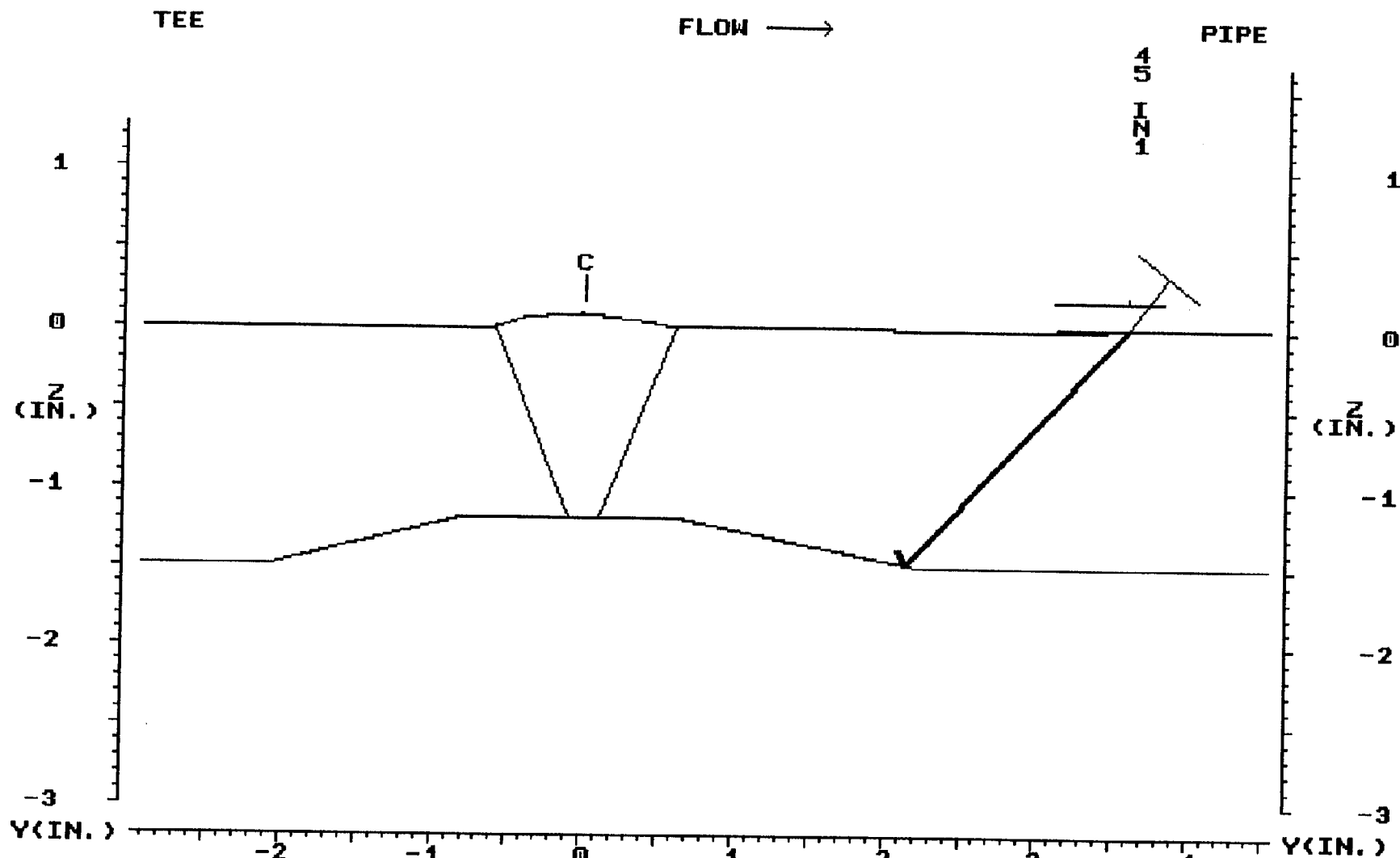
Comp. Temp.: 68° °F Configuration: PIPE TO ELBOW Wo Location WELD CL Lo Location TDC

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:	
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	-->1"		
2			●	1	50%	(1)	0"	(1)	3.6"				2.7			1.55	1.3	1.3	(1) 360°
5	●			N/A															
7	●			N/A															
8	●			N/A															

Examination/Limitation Remarks: NONE

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
101"	1.2"	5 (L) NL	2 (L) NL	7 & 8 (W) NL	5 - from NL	to NL	2 - from NL	to NL	From (5) NL	to (2) NL			
Primary Examiner	Level	Assistant Examiner				Level	Non-Technical Review				Date		
GEORGE A. MORINI	II	N/A				N/A	<i>[Signature]</i>				3/28/00		
SNC NDE Level II/III Review	Date	Percentage of Code Coverage				ANII Review				Date			
<i>[Signature]</i>	3-27-00	N/A %				<i>[Signature]</i>				3/28/00			

Figure 1



45 IN1	SET	1R16020.DAT 1R16020A.SCR				SET
1.56	DEP	45 DEG INDICATION # 1 - ID GEOMETRY				DEP
2.20	MP	COMPARES WITH 1988 DATA (SEE 1988 IER 008)				MP
43.20	TOF	DR CORDES L/III <i>Jac</i>				TOF
	ARC	MAKERAY/UTILITY	LEFT	RIGHT	TOP	ARC
	GATE				PRINT	GATE
0.050	STEP				EXIT	STEP
	EXIT					EXIT
PLANT: FARLEY 1		3/27/00		CIRC. POS.: TYP		
SYSTEM: MAIN STEAM		11:08		ANALYST: DR CORDES L/III		
COMPONENT: AL02-4101-2				CAL. SHEET: S00F10191		

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 Year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 011 Date 3/28/00

PART I FINDINGS

Sketch Ref: See attached NDE Method: VT-2 Procedure/Rev. FNP-0-NDE.100.22/Rev 2
Item No. N/A

Component Inspected: Class 2 Bolted Connections / See attached sheet.

Description of Indication See attached sheet for description of indication for each component.

Prepared By Charles W Dean Date 3/28/2000

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: Examination performed per Examination Category C-H, system leakage test (IWC-5221), VT-2, ASME Section XI, 1989 Edition.

Evaluation: VT-2 examinations are unacceptable per IWA-5250(a)(2).

Bases: For systems that are borated for the purpose of controlling reactivity, insulation shall be removed from pressure retaining bolted connections for visual examination, VT-2. Based on ASME Section XI, 1989 Edition, paragraph IWA-5241(a) and IWA5242(a), the boron residue (leakage) requires corrective action.

Review of Previous Examinations: This is the first outage for Unit 1 where VT-2 examinations have been performed on these Class 2 Bolted Connections per the 1989 Section XI ASME Code.

NDE Inspector J. Eric Orsock Certification Level III Date 5-18-00
Dan P. Joffe III 6-27-00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Leakage of borated water from bolted connections.

Action Required to Correct Indication: Per IWA-5250(a)(2), if leakage occurs at a bolted connection, the bolting shall be removed, VT-3 visually examined for corrosion and evaluated in accordance with IWA-3100.

MSR Number: See attached sheet.

LER Yes _____ No X 10CFR 21 Yes _____ No X

Corrective Action Taken: Work orders were written for examination of these bolted connections that showed evidence of leakage. The valve bonnets were removed, valves and flange surfaces were cleaned, and bolting in contact with boron build-up was removed and VT-3 examined. Flow orifices and flow elements were disassembled, cleaned, and inspected. All bolting examinations were satisfactory. Gaskets were replaced.

Corrective Action Initiated to Prevent Recurrence: Bolted connections were disassembled, cleaned, bolts VT-3 examined, and gaskets replaced. Bolts were tightened to their proper torque values.

Prepared By J. Erin O'Connell Date 5-18-00

Approved By Daniel Hartline Date 5/25/00

ANIL REVIEW: 6/29/00

FIGURE C-1

IER No. 011
FNP UNIT 1 REFUELING OUTAGE 1R16
BOLTED CONNECTIONS

TPNS Number	Work Order	Item Description	VT-2 Result
Q1E21V257	20001405	Charging Pumps to Regen HX Isol Valve	Moderate dry boron build-up on gasket and bolting.
E21 Flange Set Btwn V325A & 324B	20001423	Flange in CVCS Charging Suction Piping	Light dry boron build-up on bolting and flange.
Q1E21V336B	20001427	React Water Storage Tank to Chg Pump Isol Valve	Light dry boron build-up on valve gasket.
Q1E21V182A	20001468	1A Charging Pump Suction	Light dry boron build-up on valve gasket.
N1E21F009A	20001477	1A Charging Pump Suction Strainer	Dry boron build-up on both flanges.
Q1E21V122C	20001482	1C Charging Pump Disch Check Valve	Light dry boron build-up on gasket and bolting.
Q1E21V123C	20001483	1C Charging Pump Discharge	Light dry boron build-up on gasket
Q1E21V116C	20001485	1C RCP Seal Water Injection Throttle Valve.	Heavy dry boron build-up on all bolting.
Q1E11V0024A	20001703	RHR to RCS Hot Legs XConn Valve	Heavy moist boron build-up on gasket, flange, and bolting.
Q1E11V0024B	20001704	RHR to RCS Hot Legs XConn Valve	Heavy moist boron build-up on gasket, flange, and bolting.
Q1E21V0565B	20001663	Letdown Line Penetration Room Isol Valve	Light dry boron build-up on gasket
Q1E21V0119	20001664	CVCS Chg Pump Disch to Regen HX Check Valve	Light dry boron build-up on gasket
Q1E21V0253A	20001665	Letdown Orifice Isol Valve	Light dry boron build-up on gasket
Q1E21V0253C	20001666	Letdown Orifice Isol Valve	Moderate dry boron build-up on gasket.
Q1E21V0243	20001668	RCS Alt Chg Line Isol Valve	Moderate dry boron build-up on gasket.
Q1E11V0043A	20001670	1B RHR HX to RCS Loop Xconn Isol Valve	Light dry boron build-up on gasket
Q1E11H0001A	20001763	RHR HX 1A	Light dry boron build-up on lower ¼ of Flange to Head Joint.
Q1E11H0001B	20001765	RHR HX 1B	Light dry boron build-up on lower 2/3 of Flange to Head Joint.
Q1E11P001B	20001835	1B RHR Pump First Flange Upstream	Light dry boron build-up on flange, bolts, and gasket.
Q1E11V0032A	20001829	1A RHR HX Disch Valve	Light boron build-up on gasket
Q1E11V0026B	20001828	Ctmt Sump to 1B RHR Pump	Heavy boron build-up on flange, gasket, and bolts.
Q1E11P001A	20001834	1A RHR Pump Upstream Flanges (2)	Light dry boron build-up on gaskets.
Q1E11V0033A	20001830	1A RHR HX Bypass Flow Valve	Moderate boron build-up on gasket and bolting.
Q1E11V0033B	20001831	1B RHR HX Bypass Flow Valve	Moderate boron build-up on gasket and bolting.
Q1E11V0009B	20001832	1B RHR HX to Chg Pump Suction	Moist boron build-up around gasket.

UNIT 1

FIGURE C-1

Q1E11V0032B	20001833	1B RHR HX Disch Valve	Moderate boron build-up on gasket and bolts.
Q1E21V0049	20002026	Accum Test Line to RWST Isol Valve	Moderate dry boron build-up on gasket
Q1E21V0050	20002027	Accum Test Line to RWST Isol Valve	Moderate dry boron build-up on gasket
Q1E21V0091	20002029	Accumulator Fill Line Isol Valve	Moderate dry boron build-up on gasket
Q1E13V005B	20003609	1B Ctmt Spray Pump to Header Isol Valve	Light dry boron build-up on gasket.
Q1E13V0004A	20003445	1A Ctmt Sump Suction Isol Valve	Moderate dry boron build-up on gasket.
Q1E13V0004B	20003448	1B Ctmt Sump Suction Isol Valve	Moderate dry boron build-up on gasket.
N1E13FE958A	20003663	A Train Containment Flow Element Flange	Light dry boron build-up BDC of flange.
N1E21FE943	20001429	Flow Element Flange in CVCS System	Light dry boron build-up on flange and bolting.

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package REF. 100.2-1	Drawing Number ** SEE COMMENTS
WO/WA No. W00600211		System Boundaries THE CVCS CHARGING PIPING WAS EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEET FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES. INSULATION WAS REMOVED FROM BOLTED CONNECTIONS TO ALLOW FOR INSPECTIONS.	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II		
Examiner [Signature]	Level II		
Date (Month-Day-Year) 2-29-00			
SKETCH			
Examination (Per Para. 7.5) _____ Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas ① Q1E21V016B - MODERATE DRY BORON BUILD-UP ON VALVE STEM. ② Q1E21V134A - LIGHT DRY BORON BUILD-UP ON VALVE STEM. ③ Q1E21V257 - MODERATE DRY BORON BUILD-UP ON GASKET AND BOLTING. ④ N1E21FE943 - LIGHT DRY BORON BUILD-UP ON FLANGE AND BOLTING. THE REMAINDER OF THE SYSTEM WAS SAT.			
Comments ** DRAWING NUMBERS: D-351115 SHT.1; D-351116 SHT.1; D-351116 SHT.6.			
MWO 20001434 written to clean + repair valve stem on Q1E21V016B. MWO 20001406 written to clean + repair Q1E21V134A. Not Code items so reinspection not required. Charles W. Dean 5/15/00			

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E21V257	Drawing Number N/A	Sheet No.																																																																																								
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote																																																																																								
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight																																																																																									
Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		Tools <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level																																																																																									
		(W)WA 20001405 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial SCOTT R. ERICKSON Level III Sig. Scott R. Erickson Examiner/Initial Level Sig. N/A N/A Date (Month-Day-Year) <p style="text-align: center;">3-24-00</p>																																																																																									
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;">UN-SAT</th> <th style="width: 10%;">N/A</th> <th style="width: 50%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;">UN-SAT</th> <th style="width: 10%;">N/A</th> </tr> </thead> <tbody> <tr> <td>N/A WELDS & BASE MATERIAL VT-1</td> <td>SAT</td> <td>UN-SAT</td> <td>N/A</td> <td><input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1</td> <td>SAT</td> <td>UN-SAT</td> <td>N/A</td> </tr> <tr> <td>Ground Blend Material</td> <td>---</td> <td>---</td> <td>---</td> <td>Loose Members</td> <td>---</td> <td>---</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Undercut</td> <td>---</td> <td>---</td> <td>---</td> <td>Cracks</td> <td><input checked="" type="checkbox"/></td> <td>---</td> <td>---</td> </tr> <tr> <td>Corrosion build-Up</td> <td>---</td> <td>---</td> <td>---</td> <td>Corrosion</td> <td><input checked="" type="checkbox"/></td> <td>---</td> <td>---</td> </tr> <tr> <td>Gouges</td> <td>---</td> <td>---</td> <td>---</td> <td>Gouges</td> <td><input checked="" type="checkbox"/></td> <td>---</td> <td>---</td> </tr> <tr> <td>Evidence of Leakage</td> <td>---</td> <td>---</td> <td>---</td> <td>Thread Damage</td> <td><input checked="" type="checkbox"/></td> <td>---</td> <td>---</td> </tr> <tr> <td>Arc Strikes</td> <td>---</td> <td>---</td> <td>---</td> <td>Deformation</td> <td><input checked="" type="checkbox"/></td> <td>---</td> <td>---</td> </tr> <tr> <td>Cracks</td> <td>---</td> <td>---</td> <td>---</td> <td>Protective Coating</td> <td><input checked="" type="checkbox"/></td> <td>---</td> <td>---</td> </tr> <tr> <td>Other **</td> <td>---</td> <td>---</td> <td>---</td> <td>Evidence of Leakage</td> <td>---</td> <td>---</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Other**</td> <td>---</td> <td>---</td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table>						UN-SAT	N/A			UN-SAT	N/A	N/A WELDS & BASE MATERIAL VT-1	SAT	UN-SAT	N/A	<input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1	SAT	UN-SAT	N/A	Ground Blend Material	---	---	---	Loose Members	---	---	<input checked="" type="checkbox"/>	Undercut	---	---	---	Cracks	<input checked="" type="checkbox"/>	---	---	Corrosion build-Up	---	---	---	Corrosion	<input checked="" type="checkbox"/>	---	---	Gouges	---	---	---	Gouges	<input checked="" type="checkbox"/>	---	---	Evidence of Leakage	---	---	---	Thread Damage	<input checked="" type="checkbox"/>	---	---	Arc Strikes	---	---	---	Deformation	<input checked="" type="checkbox"/>	---	---	Cracks	---	---	---	Protective Coating	<input checked="" type="checkbox"/>	---	---	Other **	---	---	---	Evidence of Leakage	---	---	<input checked="" type="checkbox"/>					Other**	---	---	<input checked="" type="checkbox"/>
		UN-SAT	N/A			UN-SAT	N/A																																																																																				
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Other **	---	---	---	Evidence of Leakage	---	---	<input checked="" type="checkbox"/>																																																																																				
				Other**	---	---	<input checked="" type="checkbox"/>																																																																																				

Comments **EXAMINED (12) STUDS & (12) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 3-24-00**

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1	Line Number/Examination Area/Weld No. Q1E2IV257			Drawing Number N/A		Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA 20001405 Procedure No. FNP-0-NDE-100.23 Revision No. 3			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge	<input type="checkbox"/> Level	Examiner/Initial SCOTT R. ERICKSON Sig. SCOTT R. ERICKSON Level II Examiner/Initial N/A Sig. N/A Level N/A Date (Month-Day-Year) <p style="text-align: center;">3-24-00</p>		
N/A SNUBBERS VT-3 SAT UN-SAT N/A Loose Bolt or Pin Connections <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Shaft Seal <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Fluid Leakage <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Fluid Tubing Condition <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Shaft Cleanliness <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Spherical Bearings <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Cotter & Clevis Pins Intact <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Other** <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A Pitting <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Corrosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Erosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Foreign Material <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Gouged Parts <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Wear <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Evidence of Leakage <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Other Cracks** <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			N/A HANGER & SUPPORTS VT-3 SAT UN-SAT N/A Setting: Hot <input type="checkbox"/> Cold <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Misalignment <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Damaged Members <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Gouges <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Arc Strikes <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Grind Marks <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Freedom of Movement <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Other** <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Comments EXAMINED FLANGE & GASKET SEATING AREA- SAT. EXAMINED (12) STUDS & (12) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SEE 3-24-00								

* Provide details on unsat areas by use of supplemental data sheet.

** Provide details on other areas examined.

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. NIEZIFE943	Drawing Number N/A	Sheet No.																																																																		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote																																																																		
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level																																																																		
		WO/WA 20001429 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial SCOTT R. ERICKSON Level III Sig. SCOTT R. ERICKSON Examiner/Initial N/A Level N/A Sig. N/A Date (Month-Day-Year) <p style="text-align: right;">3-20-00</p>																																																																			
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N/A WELDS & BASE MATERIAL VT-1	SAT	UN-SAT	N/A	✓ BOLTS, STUDS, AND WASHERS VT-1	SAT																																																																
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Other **	—	—	—	Evidence of Leakage	—																																																																
				Other**	—																																																																
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined † MINOR SURFACE CORROSION & TOOL MARKS NOTED SRE 3-20-00																																																																					
Comments EXAMINED ALL BOLTING IN DECON ROOM 8 STUDS SAT 16 NUTS SAT SRE 3-20-00																																																																					

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1		Line Number/Examination Area/Weld No. N1E21 FE943			Drawing Number N/A		Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WDW/VA 20001429		Procedure No. FNP-0-NDE-100.23
							Revision No. 3		
							Examiner/Initial SCOTT R. ERICKSON	Level II	
							Examiner/Initial N/A	Level N/A	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		Date (Month-Day-Year) 3-20-00		
N/A SNUBBERS VT-3 SAT UN-SAT N/A			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A			N/A HANGER & SUPPORTS VT-3 SAT UN-SAT N/A			
Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.			* MINOR SURFACE CORROSION & TOOL MARKS ON STUDS & NUTS SRE 3-20-00						
Comments EXAMINED ACCESSIBLE PORTIONS OF FLANGE & GASKET SEATING SURFACE - SAT. EXAMINED 8 STUDS - SAT & 16 NUTS - SAT IN DECON ROOM. SRE 3-20-00									

SHARDED

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plan/Unit FARLEY/1		Data Package Ref. 160, 9-1	Drawing Number D-351116
WCA No. 000600211		System Boundaries	
Procedure No. FNP-0-NDE-100.22		The CVCS charging pump suction piping was examined in service under normal operating conditions. See attached sheets for the system boundaries. The examination included all vents, drains, instrument lines and test connections within the system boundaries. Insulation was removed from gasketed connections to allow for examination.	
Revision No. 2		u/a	
Examiner Scott R. Seichorn	Level II		
Examiner <i>Paul Williams</i>	Level II		
Date (Month-Day-Year) 2-29-00	SKETCH		
Examination (Per Para. 7.5)	Sat <input checked="" type="checkbox"/>	*Unsat	
<p>*Provide details on unsat areas</p> <p>① DIEZEL VENT LIGHT DRY BEEP GUID-UP ON END CAP ② FLANGE BETWEEN QV325A1 & QV324B - LIGHT DRY BEEP GUID-UP ON GUTTING AND FLANGE. ③ DIEZEL P0020-AB - MODERATE DRY BEEP GUID-UP ON SEALS - MINOR PREVIOUSLY WRITTEN FOR THIS CONDITION. THE REMAINDER OF THE SYSTEM WAS SAT.</p> <p>Comments M020001430 written to clean and adjust end cap. Note Code items reinspection not required</p> <p><i>Robert W. Brown 5/15/00</i></p>			

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY/1	Line Number/Examination Area/Weld No. FLANGE BETWEEN Q1E21V325A & Q1E21V324B			Drawing Number N/A		Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level		(WO/WA) 20001423 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial SCOTT R. ERICKSON Sig. SLOTT R. ERICKSON Level II Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) 3-22-00	
N/A WELDS & BASE MATERIAL VT-1				UN- SAT SAT N/A			
Ground Blend Material Undercut Corrosion build-Up Gouges Evidence of Leakage Arc Strikes Cracks Other **				UN- SAT SAT N/A			
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined				UN- SAT SAT N/A			
Comments EXAMINED (8) STUDS & (16) NUTS AFTER REMOVAL FROM FLANGE. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACE NOTED. SEE 3-22-00							

SHARED

FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1		Line Number/Examination Area/Weld No. FLANGE BETWEEN Q1E21V325A & Q1E21V324B			Drawing Number N/A		Sheet No.										
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			(WO)WA 20001423 Procedure No. FNP-0-NDE-100.23 Revision No. 3									
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		Level <input type="checkbox"/> Level <input type="checkbox"/> _____ <input type="checkbox"/> _____										
Examiner/Initial SCOTT R. ERICKSON Sig. Scott R. Erickson		Examiner/Initial N/A Sig. N/A	Level II		Level N/A		Date (Month-Day-Year) 3-22-00										
N/A SNUBBERS VT-3			SAT UN-SAT N/A			COMP. INTERNALS & MAT'L SURFACE VT-3			SAT UN-SAT N/A			N/A HANGER & SUPPORTS VT-3			SAT UN-SAT N/A		
Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			_____ _____ _____ _____ _____ _____ _____ _____			_____ _____ _____ _____ _____ _____ _____ _____			_____ _____ _____ _____ _____ _____ _____ _____			_____ _____ _____ _____ _____ _____ _____ _____			_____ _____ _____ _____ _____ _____ _____ _____		
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.																	

Comments **EXAMINED ACCESSIBLE PORTIONS OF GASKET SEATING SURFACE, FLANGE- SAT. EXAMINED (8) STUDS & (16) NUTS AFTER REMOVAL FROM FLANGE. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACE NOTED. SRE 3-22-00**

SHARED

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plan/Unit FARLEY/1		Data Package Ref. 100.9-1	Drawing Number * * SEE COMMENTS
WOM No. W00600211		System Boundaries	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner	Level II	EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEETS FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES. INSULATION WAS REMOVED FROM BOLTED CONNECTIONS TO ALLOW FOR EXAMINATION.	
Examiner	Level II	SKETCH	
Date (Month-Day-Year) 3-2-00			
Examination (Per Para. 7.5)			
Sat <input checked="" type="checkbox"/>		* Unsat <input type="checkbox"/>	
<p>① QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ② QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>③ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ④ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>⑤ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑥ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>⑦ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑧ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>⑨ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑩ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>⑪ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑫ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>⑬ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑭ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>⑮ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑯ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>⑰ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑱ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>⑲ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑳ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㉑ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉒ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㉓ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉔ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㉕ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉖ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㉗ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉘ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㉙ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉚ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㉛ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉜ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㉝ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉞ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㉟ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊱ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㊲ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊳ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㊴ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊵ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㊶ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊷ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㊸ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊹ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㊺ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊻ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㊼ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊽ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p> <p>㊾ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊿ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET</p>			
<p>Provide details on unsat areas</p> <p>① QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ② QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>③ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ④ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>⑤ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑥ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>⑦ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑧ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>⑨ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑩ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>⑪ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑫ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>⑬ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑭ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>⑮ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑯ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>⑰ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑱ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>⑲ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ⑳ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㉑ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉒ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㉓ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉔ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㉕ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉖ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㉗ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉘ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㉙ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉚ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㉛ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉜ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㉝ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㉞ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㉟ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊱ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㊲ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊳ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㊴ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊵ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㊶ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊷ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㊸ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊹ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㊺ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊻ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㊼ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊽ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p> <p>㊾ QUIZC-LIGHT DRY BORON BUILD-UP ON GASKET ㊿ QUIZC-LIGHT DRY BORON ON GASKET AND BOLTING</p>			
<p>Comments ** DWG: D-35116 SH-2; D-35118 SH-1</p> <p>W00600211 written to clean and check code. Not a code item. Reinspection not required.</p> <p>W00600211 written to clean and check code. Not a code item. Reinspection not required.</p>			

Required. (John W. Brown 5/15/00) QUIZC has moderate dry boron leakage Assessment Program for evaluation. Not a code item. Report has been submitted to the Borated Water Leakage Assessment Program for evaluation. Not a code item. Reinspection not required. (John W. Brown 6/15/00)

SHEET 1 OF 3

10/15/99 3:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E21 V0122C	Drawing Number N/A	Sheet No.																																																																																								
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video																																																																																								
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Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		Tools <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge																																																																																									
WO/WA M 20001482 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial M. GRELL Sig. <i>M. Grell</i> Level <u>IT</u>		Examiner/Initial Sig. N/A Level																																																																																									
Date (Month-Day-Year) 3/17/00																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;"></th> <th style="width:10%;">SAT</th> <th style="width:10%;">UN-SAT</th> <th style="width:10%;">N/A</th> <th style="width:50%;"></th> <th style="width:10%;">SAT</th> <th style="width:10%;">UN-SAT</th> <th style="width:10%;">N/A</th> </tr> </thead> <tbody> <tr> <td>WELDS & BASE MATERIAL VT-1</td> <td></td> <td></td> <td></td> <td>BOLTS, STUDS, AND WASHERS VT-1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ground Blend Material</td> <td>—</td> <td>—</td> <td>—</td> <td>Loose Members</td> <td>—</td> <td>—</td> <td>✓</td> </tr> <tr> <td>Undercut</td> <td>—</td> <td>—</td> <td>—</td> <td>Cracks</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Corrosion build-Up</td> <td>—</td> <td>—</td> <td>—</td> <td>Corrosion</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Gouges</td> <td>—</td> <td>—</td> <td>—</td> <td>Gouges</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Evidence of Leakage</td> <td>—</td> <td>—</td> <td>—</td> <td>Thread Damage</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Arc Strikes</td> <td>—</td> <td>—</td> <td>—</td> <td>Deformation</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Cracks</td> <td>—</td> <td>—</td> <td>—</td> <td>Protective Coating</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Other **</td> <td>—</td> <td>—</td> <td>—</td> <td>Evidence of Leakage</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Other**</td> <td>—</td> <td>—</td> <td>✓</td> </tr> </tbody> </table>					SAT	UN-SAT	N/A		SAT	UN-SAT	N/A	WELDS & BASE MATERIAL VT-1				BOLTS, STUDS, AND WASHERS VT-1				Ground Blend Material	—	—	—	Loose Members	—	—	✓	Undercut	—	—	—	Cracks	—	—	—	Corrosion build-Up	—	—	—	Corrosion	✓	—	—	Gouges	—	—	—	Gouges	✓	—	—	Evidence of Leakage	—	—	—	Thread Damage	✓	—	—	Arc Strikes	—	—	—	Deformation	✓	—	—	Cracks	—	—	—	Protective Coating	✓	—	—	Other **	—	—	—	Evidence of Leakage	✓	—	—					Other**	—	—	✓
	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A																																																																																				
WELDS & BASE MATERIAL VT-1				BOLTS, STUDS, AND WASHERS VT-1																																																																																							
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Other **	—	—	—	Evidence of Leakage	✓	—	—																																																																																				
				Other**	—	—	✓																																																																																				
Comments: Examined bolting and nuts while valve disassembled - No visible wastage of cross sectional area or threaded surfaces noted @ time of exam. MB 3-17-00																																																																																											

* Provide details on unsat areas by use of supplemental data sheet.
 ** Provide details on other areas examined

SHALED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1		Line Number/Examination Area/Weld No. Q1E21V022C			Drawing Number N/A		Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA M 20001482 Procedure No. FNP-0-NDE-100.23 Revision No. 3			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge			Examiner/Initial M. GRELL Sig. [Signature] Level II Examiner/Initial N/A Sig. N/A Level		Date (Month-Day-Year) 3-17-00		
N/A SNUBBERS VT-3 SAT UN-SAT N/A Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			N/A HANGER & SUPPORTS VT-3 SAT UN-SAT N/A Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**				
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.										
Comments examined Gasket & mating surfaces and all associated bolting while valve disassembled										

10/15/99 3:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1		Line Number/Examination Area/Weld No. Q1E21N0336B			Drawing Number N/A		Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video		WO/WA 20001427 Procedure No. FNP-0-NDE-100.21 Revision No. 1	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		Examiner/Initial M. GRELL Level 3 Sig. <i>M. Grell</i> Examiner/Initial N/A Level Sig. Date (Month-Day-Year) <p style="text-align: right;">3-27-00</p>	
N/A WELDS & BASE MATERIAL VT-1					✓ BOLTS, STUDS, AND WASHERS VT-1				
	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A		
Ground Blend Material	—	—	—	Loose Members	—	—	—	✓	
Undercut	—	—	—	Cracks	—	—	—	—	
Corrosion build-Up	—	—	—	Corrosion	✓	—	—	—	
Gouges	—	—	—	Gouges	✓	—	—	—	
Evidence of Leakage	—	—	—	Thread Damage	✓	—	—	—	
Arc Strikes	—	—	—	Deformation	✓	—	—	—	
Cracks	—	—	—	Protective Coating	✓	—	—	—	
Other **	—	—	—	Evidence of Leakage	✓	—	—	—	
	—	—	—	Other**	—	—	—	✓	
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined					* minor tool marks noted on stud & nut				
Comments Examined (1) STUD & NUT after removal from Valve Body. No visible signs of wastage of cross sectional area or the ended surfaces noted @ time of Exam. MUY 3-27-00									

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1		Line Number/Examination Area/Weld No. Q1E21V0336B			Drawing Number N/A		Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA 20001427 Procedure No. FNP-0-NDE-100.23 Revision No. 3		Examiner/Initial M. GRELL Sig. <i>Mantol</i>	Level II
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		Level <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Examiner/Initial Sig. N/A	Level <input type="checkbox"/>
Date (Month-Day-Year) 3-27-00		N/A SNUBBERS VT-3			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3	N/A HANGER & SUPPORTS VT-3		<input type="checkbox"/> SAT	<input type="checkbox"/> UN-SAT	<input type="checkbox"/> N/A
Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		<input checked="" type="checkbox"/> Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.		examined (1) stud after removal			Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Comments examined (1) STUD after removal from Valve body. Valve was not disassembled. Stud had only minor tool marks and minor residue noted.										

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E21V0123C	Drawing Number NA	Sheet No. NA																																																																														
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote																																																																														
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level																																																																														
		WO/WA 20001483 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial Tim Alexander Sig. J. Alexander Level II Examiner/Initial NA Sig. NA Level Date (Month-Day-Year) 3-26-00																																																																															
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>NA WELDS & BASE MATERIAL VT-1</td> <td>SAT</td> <td>UN-SAT</td> <td>N/A</td> <td>X BOLTS, STUDS, AND WASHERS VT-1</td> <td>SAT</td> </tr> <tr> <td>Ground Blend Material</td> <td>—</td> <td>—</td> <td>—</td> <td>Loose Members</td> <td>—</td> </tr> <tr> <td>Undercut</td> <td>—</td> <td>—</td> <td>—</td> <td>Cracks</td> <td>X</td> </tr> <tr> <td>Corrosion build-Up</td> <td>—</td> <td>—</td> <td>—</td> <td>Corrosion</td> <td>X</td> </tr> <tr> <td>Gouges</td> <td>—</td> <td>—</td> <td>—</td> <td>Gouges</td> <td>X</td> </tr> <tr> <td>Evidence of Leakage</td> <td>—</td> <td>—</td> <td>—</td> <td>Thread Damage</td> <td>X</td> </tr> <tr> <td>Arc Strikes</td> <td>—</td> <td>—</td> <td>—</td> <td>Deformation</td> <td>X</td> </tr> <tr> <td>Cracks</td> <td>—</td> <td>—</td> <td>—</td> <td>Protective Coating</td> <td>X</td> </tr> <tr> <td>Other **</td> <td>—</td> <td>—</td> <td>—</td> <td>Evidence of Leakage</td> <td>—</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Other**</td> <td>—</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table>										NA WELDS & BASE MATERIAL VT-1	SAT	UN-SAT	N/A	X BOLTS, STUDS, AND WASHERS VT-1	SAT	Ground Blend Material	—	—	—	Loose Members	—	Undercut	—	—	—	Cracks	X	Corrosion build-Up	—	—	—	Corrosion	X	Gouges	—	—	—	Gouges	X	Evidence of Leakage	—	—	—	Thread Damage	X	Arc Strikes	—	—	—	Deformation	X	Cracks	—	—	—	Protective Coating	X	Other **	—	—	—	Evidence of Leakage	—					Other**	—						X						X
NA WELDS & BASE MATERIAL VT-1	SAT	UN-SAT	N/A	X BOLTS, STUDS, AND WASHERS VT-1	SAT																																																																												
Ground Blend Material	—	—	—	Loose Members	—																																																																												
Undercut	—	—	—	Cracks	X																																																																												
Corrosion build-Up	—	—	—	Corrosion	X																																																																												
Gouges	—	—	—	Gouges	X																																																																												
Evidence of Leakage	—	—	—	Thread Damage	X																																																																												
Arc Strikes	—	—	—	Deformation	X																																																																												
Cracks	—	—	—	Protective Coating	X																																																																												
Other **	—	—	—	Evidence of Leakage	—																																																																												
				Other**	—																																																																												
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* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined																																																																																	
Comments Value was disassembled. Examined twelve (12) studs and twelve(12) nuts Sat. Examined gasket sealing surfaces and flange ligaments Sat. JA 3-26-00																																																																																	

SECRET

FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>Farley / 1</i>		Line Number/Examination Area/Weld No. <i>Q1E21 V0123C</i>			Drawing Number <i>NA</i>		Sheet No. <i>NA</i>		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		(WO/WA) <i>2000 1483</i> Procedure No. <i>FN-0 NDE-100-3</i> Revision No. <i>1</i>		Examiner/Initial <i>Tim Alexander</i> Sig. <i>T. Alexander</i> Level <i>II</i>
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		<input type="checkbox"/> Level Examiner/Initial Sig. <i>NA</i> Level Date (Month-Day-Year) <i>3-26-00</i>		
<i>NA</i> SNUBBERS VT-3 SAT UN-SAT N/A			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A			<i>NA</i> HANGER & SUPPORTS VT-3 SAT UN-SAT N/A			
Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.									

Comments *Examined valve flanges + gasket sealing surfaces int. Examined (12) and (12) nuts. Found no obvious sign of degradation J.A. 3-26-00*

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1E11V0098	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	
		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level	
		WO/WA 20001832 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial <u>SCOTT R. EDICKSON</u> Level <u>II</u> Sig. <u>SCOTT R. EDICKSON</u> Examiner/Initial <u>N/A</u> Level <u>N/A</u> Sig. <u>N/A</u> Date (Month-Day-Year) <p style="text-align: right;">4-3-00</p>	
N/A WELDS & BASE MATERIAL VT-1		SAT UN-SAT N/A	
Ground Blend Material Undercut Corrosion build-Up Gouges Evidence of Leakage Arc Strikes Cracks Other **		SAT UN-SAT N/A	
		<input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1	
		SAT UN-SAT N/A	
		Loose Members Cracks Corrosion Gouges Thread Damage Deformation Protective Coating Evidence of Leakage Other**	
		SAT UN-SAT N/A	
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined			
Comments <u>EXAMINED (16) STUDS & (32) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 4-3-00</u>			

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11	Line Number/Examination Area/Weld No. Q1E11V009B	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge
(WO)WA 20001832 Procedure No. FNP-0-NDE-100.23 Revision No. 3		Examiner/Initial SCOTT R. ERICKSON Sig. SCOTT R. ERICKSON	Level II
Examiner/Initial N/A Sig. N/A		Level N/A	
Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;">4-3-00</p>			
N/A SNUBBERS VT-3	SAT	UN-SAT	N/A
Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	_____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____
COMP. INTERNALS & MAT'L SURFACE VT-3	SAT	UN-SAT	N/A
Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	_____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____
N/A HANGER & SUPPORTS VT-3	SAT	UN-SAT	N/A
Setting: Hot _____ Cold _____ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**	_____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____

Comments **EXAMINED FLANGE & GASKET SEATING AREA. EXAMINED (16) STUDS & (32) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRL 4-3-00**

SHARED

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plan/Unit FARLEY/1		WONA No. W00600211		Procedure No. FNP-0-NDE-100.22		Revision No. 2	
Data Package Ref. 160.3-1		Drawing Number * * SEE COMMENTS		System Boundaries		The GCS SEAL INSPECTION PIPING WAS EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEETS FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES. INSULATION WAS REMOVED FROM BOLTED CONNECTIONS TO ALLOW FOR EXAMINATIONS.	
Examiner Scott F. Beckson		Level #		Date (Month-Day-Year) 3-2-00		SKETCH	
Examiner [Signature]		Level II		Date (Month-Day-Year) 3-2-00		SKETCH	
* Provide details on unsal areas		Sat <input checked="" type="checkbox"/> Unsal <input type="checkbox"/>		* Provide details on unsal areas		* Provide details on unsal areas	
Comments * * DRAWINGS: D-35116 SHT. 1; D-35116 SHT. 6.		BORON BUILD-UP ON END CAP (3) DIEZIV5408-LIGHT DRY BOREN BUILD-UP ON END CAP. THE REMAINDER OF THE SYSTEM WAS SHT. 6.		BORON BUILD-UP ON END CAP (2) DIEZIV4890-MODERATE DRY		BORON BUILD-UP ON BOLTING, GASKET AND STEM.	
MWO 20003937 written to clean and repair end cap on DIEZIV5408 as needed. These are not Code items, Reinspection is not required.		MWO 20003937 written to clean and repair end cap on DIEZIV4890 as needed. These are not Code items, Reinspection is not required.		MWO 20003937 written to clean and repair end cap on DIEZIV4890 as needed. These are not Code items, Reinspection is not required.		MWO 20003937 written to clean and repair end cap on DIEZIV4890 as needed. These are not Code items, Reinspection is not required.	

10/15/99 3:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY <i>Farley/1</i>	Line Number/Examination Area/Weld No. <i>Q1E2IV 0116C</i>			Drawing Number <i>N/A</i>		Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video		WO/WA <i>20001485</i> Procedure No. FNP-0-NDE-100.21 Revision No. <i>1</i>	
		Examiner/Initial <i>M. GREU</i> Sig. <i>Mauld Hill</i>		Examiner/Initial Sig. <i>N/A</i>		Level Level	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level		Date (Month-Day-Year) <i>3-28-00</i>			
<i>N/A</i> WELDS & BASE MATERIAL VT-1			SAT	UN-SAT	<i>N/A</i>		
Ground Blend Material			—	—	<input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1		
Undercut			—	—	Loose Members		
Corrosion build-Up			—	—	Cracks		
Gouges			—	—	Corrosion		
Evidence of Leakage			—	—	Gouges		
Arc Strikes			—	—	Thread Damage		
Cracks			—	—	Deformation		
Other **			—	—	Protective Coating		
			—	—	Evidence of Leakage		
			—	—	Other**		
			—	—	* minor tool mark noted		
			—	—	examined 6 STUDS (1) removed (5) in place		
Comments <i>no visible wastage of cross sectional area or threaded surface noted @ time of exam MM 3/28/00</i>							

SHAJED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY/1	Line Number/Examination Area/Weld No. Q1E2NO116 C	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge	WO/WA 20001485 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial M.GRELL Level IT Sig. <i>M. Grell</i> Examiner/Initial N/A Level Sig. N/A Date (Month-Day-Year) 3-28-00
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.		HANGER & SUPPORTS VT-3 Setting: Hot _____ Cold _____ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**	
Comments Examined 6 STUDS and nuts. 5 STUDS I/P 1 STUD removed from Valve body. Examined gasket seating SUR faces. no abnormalities noted @ time of exam. MD 3/28-00			

* minor tool marks noted on studs

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package REF. 160.9-1	Drawing Number ** SEE COMMENTS
WO/WA No. W00600211		System Boundaries THE CVCS CHARGING PUMP SUCTION PIPING WAS EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEETS FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES. INSULATION WAS REMOVED FROM BOLTED CONNECTIONS TO ALLOW FOR EXAMINATION.	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II		
Examiner Luis A. Valenciano	Level II		
Date (Month-Day-Year) 3-1-00			
SKETCH			
Examination (Per Para. 7.5)			
_____ Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas ① QV1B2A - LIGHT DRY BORON BUILD-UP ON GASKET ② QV336A - LIGHT DRY BORON BUILD-UP ON VALVE STEM ③ N1E21F009A - UPSTREAM FLANGE HAS LIGHT DRY BORON BUILD-UP ON GASKET, DOWNSTREAM SIDE HAS MODERATE DRY BORON BUILD-UP ON GASKET AND BOLTING ④ Q1E21P002A - MODERATE DRY BORON BUILD-UP ON SEALS. (1 DROP/SECOND LEAK WITH PUMP OFF) M-101 PREVIOUSLY WRITTEN FOR THIS CONDITION. THE REMAINDER OF THE SYSTEM WAS SAT.			
Comments ** DRAWINGS: D-351116 SHT 2; D-351116 SHT.6; D-351118 SHT.1			

MW020001432 written to clean valve stem and check packing on Q1E21V336A. Not A Code item, reinspection not required. Charles W. Dean 5/15/00 Q1E21P002A has moderate dry boron build up on seals and a 1 drop/sec leak. An FNP-0-m-101 report has been submitted to the Boreated Water Leakage Assessment Program for evaluation. Not A Code item, reinspection not required. Charles W. Dean 6/15/00.

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E21V0182 A			Drawing Number NA	Sheet No. NA																																																																														
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			WO/WA 20001468 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial Tim Alexander Sig. <i>T. Alexander</i> Level II																																																																													
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge			Examiner/Initial Sig. NA Level Date (Month-Day-Year) 3.26.00																																																																														
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* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined																																																																																			
Comments Value was disassembled, Examined (12) studs and (24) nuts Sat, Examined gasket sealing surfaces and flange ligaments Sat. 29 3-26-00																																																																																			

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>Farley/ 1</i>	Line Number/Examination Area/Weld No. <i>Q1E21V0182A</i>			Drawing Number <i>NA</i>	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		<input checked="" type="checkbox"/> W/WA <i>M 2000 1468</i> Procedure No. <i>FNP-0-NDE-100.23</i> Revision No. <i>3</i> Examiner/Initial <i>Tim Alexander</i> Level <i>II</i> Sig. <i>J. Abdank</i> Examiner/Initial <i>NA</i> Level <i>NA</i>
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper	<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge	<input type="checkbox"/> Level	Date (Month-Day-Year) <i>3-26-00</i>
<i>NA</i> SNUBBERS VT-3	SAT UN-SAT N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3	SAT UN-SAT N/A	<i>NA</i> HANGER & SUPPORTS VT-3	SAT UN-SAT N/A
Loose Bolt or Pin Connections	___ ___ ___	Pitting	<input checked="" type="checkbox"/> ___ ___	Setting:	___ ___ ___
Shaft Seal	___ ___ ___	Corrosion	<input checked="" type="checkbox"/> ___ ___	Hot ___ Cold ___	___ ___ ___
Fluid Leakage	___ ___ ___	Erosion	<input checked="" type="checkbox"/> ___ ___	Misalignment	___ ___ ___
Fluid Tubing Condition	___ ___ ___	Foreign Material	<input checked="" type="checkbox"/> ___ ___	Damaged Members	___ ___ ___
Shaft Cleanliness	___ ___ ___	Gouged Parts	<input checked="" type="checkbox"/> ___ ___	Gouges	___ ___ ___
Spherical Bearings	___ ___ ___	Wear	<input checked="" type="checkbox"/> ___ ___	Arc Strikes	___ ___ ___
Cotter & Clevis Pins Intact	___ ___ ___	Evidence of Leakage	___ ___ <input checked="" type="checkbox"/>	Grind Marks	___ ___ ___
Other**	___ ___ ___	Other Cracks**	___ ___ <input checked="" type="checkbox"/>	Freedom of Movement	___ ___ ___
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.					
Comments <i>Examined valve flanges + gasket seating surfaces Sat. Examined (12) studs + (24) nuts. Found no obvious sign of degradation. J.A. 3-26-00</i>					

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1		Line Number/Examination Area/Weld No. NIEZI F 0009A			Drawing Number N/A		Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA WO# 20001477		
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level		Examiner/Initial Sig. M. GRELL M. Grell		Level II		
				Examiner/Initial Sig. N/A		Level			
				Date (Month-Day-Year) 3-23-00					
N/A SNUBBERS VT-3 SAT UN-SAT N/A Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			SAT UN-SAT N/A <input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			N/A HANGER & SUPPORTS VT-3 SAT UN-SAT N/A Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.			Examined 16 STUDS & 32 NUTS						
Comments STUDS exhibited loss of material in threaded area and several had severe tool marks & upset threads. Nuts also had excessive corrosion									

10/15/99 3:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1	Line Number/Examination Area/Weld No. NIEZI F009A			Drawing Number N/D		Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge		WO/WA 20001477 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial M. GRELL Sig. <i>Mand Grell</i> Level II Examiner/Initial Sig. N/A Level Date (Month-Day-Year) 3-23-00	
<u>N/A</u> WELDS & BASE MATERIAL VT-1 SAT UN-SAT N/A Ground Blend Material ___ ___ ___ Undercut ___ ___ ___ Corrosion build-Up ___ ___ ___ Gouges ___ ___ ___ Evidence of Leakage ___ ___ ___ Arc Strikes ___ ___ ___ Cracks ___ ___ ___ Other ** ___ ___ ___				<input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1 SAT UN-SAT N/A Loose Members ___ ___ <input checked="" type="checkbox"/> Cracks ___ ___ ___ Corrosion <input checked="" type="checkbox"/> ___ ___ Gouges <input checked="" type="checkbox"/> ___ ___ Thread Damage <input checked="" type="checkbox"/> ___ ___ Deformation <input checked="" type="checkbox"/> ___ ___ Protective Coating <input checked="" type="checkbox"/> ___ ___ Evidence of Leakage <u>N/A</u> ___ <input checked="" type="checkbox"/> Other** <u>N/A</u> ___ <input checked="" type="checkbox"/>			
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined							
Comments <i>examined 16 STUDS & 32 NUTS, all items new from warehouse to replace items previously rejected</i>							

NY 3-23-00

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY		Line Number/Examination Area/Weld No. N1E21 F009A				Drawing Number N/A		Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA 2000 1477 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial M. GARELL Level II Sig. <i>M. Garell</i>			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		Examiner/Initial N/A Level Date (Month-Day-Year) 3/23/00			
SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			UN-SAT N/A SAT UN-SAT N/A			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			UN-SAT N/A SAT UN-SAT N/A		
HANGER & SUPPORTS VT-3 Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			SAT UN-SAT N/A			SAT UN-SAT N/A			SAT UN-SAT N/A		
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.											
Comments <i>Examined flanges on spool piece and existing pipe - Gasket mating surfaces showed no wear or surface pitting, scratches, tool marks etc. MD 3-23-00</i>											

SHARED

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

SOUTHERN NUCLEAR OPERATING COMPANY

FARLEY NUCLEAR PLANT

Plan/Unit FARLEY 11		Data Package Ref. 160.6-1	Drawing Number D-35117 SHT.1
WOWA No. W00600211		System Boundaries	
Procedure No. FNP-0-NDE-100.22		Revision No. 2	
Examiner	<i>[Signature]</i>	Level	II
Examiner	n/a	Level	n/a
Date (Month-Day-Year) 3-9-00		EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES. INSULATION WAS REMOVED FROM BOLTED CONNECTIONS TO ALLOW FOR EXAMINATION.	
<p>SKETCH</p>			

Examination (Per Para. 7.5) Sat *Unsat

*Provide details on unsat areas

① QV079# - MODERATE DRY BORON BUILD-UP ON END CAP ② QV06C - LIGHT DRY BORON BUILD-UP ON END CAP ③ QV037A - HEAVY DRY BORON BUILD-UP ON VALVE STEM ④ QV047D - LIGHT DRY BORON BUILD-UP ON GASKET ⑤ QV024A - HEAVY MOIST BORON ON GASKET, FLANGE AND BOLTING ⑥ QV044 - MODERATE DRY BORON BUILD-UP ON GASKET ⑦ QV032A - LIGHT DRY BORON BUILD-UP ON STEM AND GASKET AND BOLTING ⑧ QV035B - MODERATE DRY BORON BUILD-UP ON GASKET ⑨ QV024A - LIGHT DRY BORON BUILD-UP LOWER 1/3 OF FLANGE ⑩ 2 FLANGES USE OF PUMP - LIGHT DRY BORON BUILD-UP ON GASKETS

Comments - SAT

⑩ H001A-A - LIGHT DRY BORON BUILD-UP LOWER 1/3 OF FLANGE THE REMAINDER OF THE SYSTEM WAS SAT.

MWO 20001706 written to clean and check gasket build-up of boron boron not in contact with bolting.

MWO 20001713 written to clean and check end cap on Q/E11V0079A, MWO 20001714 written to clean and check end cap on Q/E11V0066C, MWO 20001715 written to clean valve stem and adjust packing on Q/E11V0037A, and MWO 20001716 written to clean and check end cap on Q/E11V0047D. These are all non-code items and do not require re-inspection. *Charles L. Dean 6/15/00*

J. M. Farley Nuclear Plant - Unit 1, Class 2

rNP-1-M-100

Component	Pressure Test	ISI Bdry Dwg No.	Coord	Loc Dwg	Evaluation/ Insulation/ Notes	Remarks
RESIDUAL HEAT EXCHANGER NO 1						
Q1E11H001A-A	160.6-1	D-351118-1	B-9	D-175063	2A/N	TUBE SIDE
RESIDUAL HEAT REMOVAL PUMP NO 1						
Q1E11P001A-A	160.6-1	D-351118-1	G-7	D-175063	2A/N	
3/8" ECB-18 (SS)	160.6-1	D-351107-1	D-3	E2601	2A/Y/7	FROM REDUCER
3/4" ECB-18	160.6-1	D-351118-1	B-8	E2601	2A/Y/7	
>	160.6-1	D-351107-1	D-2	E2601	2A/Y/7	TO REDUCER
3" ECB-30	160.6-1	D-351118-1	F-5	EG038,EG042	2A/Y/7	CROSSOVER LINE BETWEEN RHR NO. 1 PUMP & RHR NO. 1 HEAT EXCHANGERS.
2" ECB-30	160.6-1	D-351118-1	E-5	E314	2A/Y/7	BETWEEN REDUCERS (QV037A)
10" ECB-2	160.6-1	D-351115-2	F-4	EG517	2A/Y/7	CROSSOVER LINE BETWEEN RHR NO 1 HX & RHR NO 2 HX TO V024B
8" ECB-29	160.6-1	D-351115-2	F-4	EG518	2A/Y/7	TESTED TO QV041 (E-4)
10" ECB-28	160.6-1	D-351115-2	G-3	EG517,EG518	2A/Y/7	TESTED TO QV044 (F-3)
10" ECB-2 (RHR 1)	160.6-1	D-351115-2	F-3	EG038	2A/Y/7	TESTED TO VALVE QV023B (F-3)
10" ECB-16	160.6-1	D-351118-1	G-9	EG037,EG042	2A/Y/7	FROM RHR PUMP NO. 1 TO HX. NO. 1
3/4" ECB-16	160.6-1	D-351118-1	F-10	EG042	2A/Y/7	TESTED TO VALVES QV004A, QV006A
	160.6-1	D-351118-1	G-9	EG042	2A/Y/7	TESTED TO VALVES QV007A
8" ECB-16	160.6-1	D-351118-1	G-8	EG042	2A/Y/7	FROM RHR PUMP NO. 1 TO REDUCER
10" ECB-18	160.6-1	D-351118-1	B-7	EG037,EG038	2A/Y/7	FROM HX. NO. 1
>	160.6-1	D-351115-2	F-4	EG517	2A/Y/7	TO CROSSOVER (10" ECB-2)
3/4" ECB-18	160.6-1	D-351118-1	B-4	E3712	2A/Y/7	TESTED TO QV011A, QV012A
2" ECB-21	160.6-1	D-351118-1	B-7	E052	2A/Y/7	TESTED TO VALVE QV013A
8" ECB-24	160.6-1	D-351118-1	B-8	E2601	2A/Y/7	TESTED TO QV009A
8" ECB-29	160.6-1	D-351118-1	B-7	EG038	2A/Y/7	BYPASS AROUND HX. NO. 1
12" ECB-14	160.6-1	D-351118-1	G-3	EG041,EG042, EG040,EG690	2A/Y/7	TESTED FROM CTMT. WALL. PEN. (NO. 16) TO REDUCER

J. M. Farley Nuclear Plant - Unit 1, Class 2

rNP-1-M-100

Component	Pressure Test	ISI Bdry Dwg No.	Coord	Loc Dwg	Evaluation/ Insulation/ Notes	Remarks
14" ECB-5 (L1)	160.6-1	D-351115-2	F-8	EG394	2A/Y/7	TESTED TO VALVE QV027A (F-10)
14" ECB-7	160.6-1	D-351115-2	J-6	EG394	2A/Y/7	TESTED TO VALVE QV025A (H-5)
14" ECB-14	160.6-1	D-351118-1	G-6	EG042	2A/Y/7	FROM REDUCER TO RHR PUMP NO. 1

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FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY/1	Line Number/Examination Area/Weld No. Q1E11V024A			Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		(WO)WA 20001703 Procedure No. FNP-0-NDE-100, 23 Revision No. 3
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper	<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge	<input type="checkbox"/> Level	Examiner/Initial Sig. <i>[Signature]</i> Level II Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;">3-31-00</p>
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	SAT UN-SAT N/A	N/A UN-SAT SAT N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	SAT UN-SAT N/A	N/A HANGER & SUPPORTS VT-3 Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.					
Comments EXAMINED FLANGE & GASKET SEATING SURFACE. EXAMINED (20) STUDS & (40) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM					

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1E11V024A	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level
Examiner/Initial Sig. <i>[Signature]</i>		Level II	
Examiner/Initial Sig. N/A		Level N/A	
Date (Month-Day-Year) 3-31-00			

	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A
N/A WELDS & BASE MATERIAL VT-1				✓ BOLTS, STUDS, AND WASHERS VT-1			
Ground Blend Material	—	—	—	Loose Members	—	—	✓
Undercut	—	—	—	Cracks	✓	—	—
Corrosion build-Up	—	—	—	Corrosion	✓	—	—
Gouges	—	—	—	Gouges	✓	—	—
Evidence of Leakage	—	—	—	Thread Damage	✓	—	—
Arc Strikes	—	—	—	Deformation	✓	—	—
Cracks	—	—	—	Protective Coating	✓	—	—
Other **	—	—	—	Evidence of Leakage	—	—	✓
				Other**	—	—	✓

Comments **EXAMINED (20) STUDS & (40) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM**

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>Farley/1</i>		Line Number/Examination Area/Weld No. <i>Q1E11V0032A</i>			Drawing Number <i>N/A</i>			Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			WO/WA <i>20001829</i> Procedure No. <i>FNP-0-NDE-100.23</i> Revision No. <i>3</i> Examiner/Initial <i>M. GRELL</i> Level <i>D</i> Sig. <i>Mauld</i>		
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge			Examiner/Initial <i>N/A</i> Level Sig. <i>N/A</i> Date (Month-Day-Year) <i>3-31-00</i>				
<i>N/A</i> SNUBBERS VT-3 SAT UN-SAT N/A			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A			<i>N/A</i> HANGER & SUPPORTS VT-3 SAT UN-SAT N/A				
Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**				
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.			Comments <i>examined gasket seating surfaces on both flanges and both seating surface on valve. no abnormalities noted @ time of exam MB 3-31-00</i>							

10/15/99 13:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY/1	Line Number/Examination Area/Weld No. Q1E11V0032A			Drawing Number N/A		Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video		WO/WA 20001829 Procedure No. FNP-0-NDE-100.21 Revision No. 1	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level		Examiner/Initial M. GRELL Sig. <i>Mand Grell</i> Level II		Examiner/Initial Sig. N/A Level Date (Month-Day-Year) 3-31-00	
N/A WELDS & BASE MATERIAL VT-1				✓ BOLTS, STUDS, AND WASHERS VT-1			
Ground Blend Material SAT UN-SAT N/A				Loose Members SAT UN-SAT N/A			
Undercut <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				Cracks <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
Corrosion build-Up <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				Corrosion <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
Gouges <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				Gouges <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
Evidence of Leakage <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				Thread Damage <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
Arc Strikes <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				Deformation <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
Cracks <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				Protective Coating <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
Other ** <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				Evidence of Leakage <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
Other ** <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				Other** <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			
* Provide details on unsat areas by use of supplemental data sheet.				† only minor tool marks noted			
** Provide details on other areas examined							
Comments examined 9 long & 6 short studs after flanges disassembled. no visible wastage of cross sectional area or threaded surfaces noted. MS 3-31-00							

10/15/99 13:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E11V0032A			Drawing Number N/A		Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote		WO/WA 2000 1829	
		Procedure No. FNP-0-NDE-100.21					
		Revision No. 1					
		Examiner/Initial M. GRELL Sig. <i>Mantel Hill</i>					
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper			Level <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge	
	Examiner/Initial Sig. N/A						
	Date (Month-Day-Year) 3-31-00						
	Level II						
N/A WELDS & BASE MATERIAL VT-1			SAT	UN-SAT	N/A	✓ BOLTS, STUDS, AND WASHERS VT-1	
Ground Blend Material			---	---	---	SAT	UN-SAT
Undercut			---	---	---	---	N/A
Corrosion build-Up			---	---	---	✓	---
Gouges			---	---	---	✓	---
Evidence of Leakage			---	---	---	✓	---
Arc Strikes			---	---	---	---	✓
Cracks			---	---	---	✓	---
Other **			---	---	---	✓	---
* Provide details on unsat areas by use of supplemental data sheet.							
** Provide details on other areas examined							

Comments (2) short studs rejected due to thread damage also (3) long studs rejected by maintenance during removal of those studs MW 3/31/00

03/18/00 13:55:19

SHARED

FIGURE 1

FNP-0-NDE-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1E11V0032A	Drawing Number N/A	Sheet No.																																																																																								
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video																																																																																								
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		(WO/WA) 20001829 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial <i>Scott R. Erickson</i> Level <i>II</i> Sig. <i>Scott R. Erickson</i> Examiner/Initial <i>N/A</i> Level <i>N/A</i> Sig. <i>N/A</i> Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;">3-31-00</p>																																																																																									
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	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A																																																																																				
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* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined																																																																																											
Comments <i>EXAMINED (2) NEW SHORT STUDS, (3) NEW LONG STUDS, & (10) NEW NUTS PRIOR TO INSTALLATION INTO VALVE BODY - SAT SRE 3-31-00</i>																																																																																											

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11	Line Number/Examination Area/Weld No. Q1E11 V033A			Drawing Number N/A	Sheet No.						
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		(WO)WA 20001830 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial SCOTT R. ERICKSON Sig. SCOTT R. ERICKSON Level II						
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper	<input type="checkbox"/> Depth Gauge	<input type="checkbox"/> Level	Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) 4-4-00						
N/A SNUBBERS VT-3	SAT	UN-SAT	N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3	SAT	UN-SAT	N/A	N/A HANGER & SUPPORTS VT-3	SAT	UN-SAT	N/A
Loose Bolt or Pin Connections	___	___	___	Pitting	<input checked="" type="checkbox"/>	___	___	Setting:	___	___	___
Shaft Seal	___	___	___	Corrosion	<input checked="" type="checkbox"/>	___	___	Hot ___ Cold ___	___	___	___
Fluid Leakage	___	___	___	Erosion	<input checked="" type="checkbox"/>	___	___	Misalignment	___	___	___
Fluid Tubing Condition	___	___	___	Foreign Material	<input checked="" type="checkbox"/>	___	___	Damaged Members	___	___	___
Shaft Cleanliness	___	___	___	Gouged Parts	<input checked="" type="checkbox"/>	___	___	Gouges	___	___	___
Spherical Bearings	___	___	___	Wear	<input checked="" type="checkbox"/>	___	___	Arc Strikes	___	___	___
Cotter & Clevis Pins Intact	___	___	___	Evidence of Leakage	___	___	<input checked="" type="checkbox"/>	Grind Marks	___	___	___
Other**	___	___	___	Other Cracks**	___	___	<input checked="" type="checkbox"/>	Freedom of Movement	___	___	___
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.											

Comments **EXAMINED FLANGE & GASKET SEATING AREA. MM REJECTED STUDS, VT-1 ON (12) NEW STUDS & (24) NEW NUTS. EXAMINED (6) GLAND STUDS & (6) NUTS AFTER REMOVAL. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SEE 4-4-00**

03/18/00 13:55:19

SHARED

FIGURE 1

FNP-0-NDE-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E11 V033 A	Drawing Number N/A	Sheet No.																																																																																								
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote																																																																																								
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	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A																																																																																				
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Cracks	—	—	—	Protective Coating	—	—	<input checked="" type="checkbox"/>																																																																																				
Other **	—	—	—	Evidence of Leakage	—	—	<input checked="" type="checkbox"/>																																																																																				
				Other**	—	—	<input checked="" type="checkbox"/>																																																																																				
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined																																																																																											
Comments EXAMINED (12) NEW STUDS & (24) NEW NUTS (MM REJECTED OLD STUDS). EXAMINED (6) GLAND STUDS & (6) NUTS AFTER REMOVAL. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SEE 4-4-00																																																																																											

SHALED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1		Line Number/Examination Area/Weld No. Q1E11P001A 2 U.S. Flanges			Drawing Number N/A			Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			WO/WA 20001834		
							Procedure No. FNP-0-NPE-10023			
							Revision No. 3			
							Examiner/Initial Sig. M. GRELL <i>Mantel Hill</i>		Level #	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		Depth Gauge	Comparator	Weld Gauge	Level	Date (Month-Day-Year) 3-28-00	
N/A SNUBBERS VT-3		SAT	UN-SAT	N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3			SAT	UN-SAT	N/A
Loose Bolt or Pin Connections		___	___	___	Pitting			___	___	___
Shaft Seal		___	___	___	Corrosion			* <input checked="" type="checkbox"/>	___	___
Fluid Leakage		___	___	___	Erosion			___	___	___
Fluid Tubing Condition		___	___	___	Foreign Material			___	___	___
Shaft Cleanliness		___	___	___	Gouged Parts			___	___	___
Spherical Bearings		___	___	___	Wear			* <input checked="" type="checkbox"/>	___	___
Cotter & Clevis Pins Intact		___	___	___	Evidence of Leakage			___	___	___
Other**		___	___	___	Other Cracks**			___	___	___
* Provide details on unsat areas by use of supplemental data sheet.				Examined 20 studs & 40 Nuts after flanges disassembled * minor surface corrosion & tool marks noted on studs						
** Provide details on other areas examined.										
N/A HANGER & SUPPORTS VT-3		SAT	UN-SAT	N/A	Setting:			___	___	___
Hot ___ Cold ___		___	___	___	Misalignment			___	___	___
Damaged Members		___	___	___	Gouges			___	___	___
Arc Strikes		___	___	___	Grind Marks			___	___	___
Freedom of Movement		___	___	___	Other**			___	___	___

Comments Examined studs - nuts and all gasket mating surfaces while flanges disassembled. No visible wastage of cross sectional area noted. No abnormalities noted @ time of exam. MW 3-28-00

10/15/99 3:46

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FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY <i>Farley 1</i>	Line Number/Examination Area/Weld No. <i>Q1E11P0001A Z U.S. Flange</i>	Drawing Number <i>N/A</i>	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level
		WO/WA <i>20001834</i> Procedure No. FNP-0-NDE-100.21 Revision No. <i>1</i> Examiner/Initial <i>M. G. ELL</i> Level <i>IT</i> Sig. <i>M. G. ELL</i> Examiner/Initial <i>N/A</i> Level Sig. <i>N/A</i> Date (Month-Day-Year) <i>3-28-00</i>	
<i>N/A</i> WELDS & BASE MATERIAL VT-1 SAT UN-SAT N/A Ground Blend Material ___ ___ ___ Undercut ___ ___ ___ Corrosion build-Up ___ ___ ___ Gouges ___ ___ ___ Evidence of Leakage ___ ___ ___ Arc Strikes ___ ___ ___ Cracks ___ ___ ___ Other ** ___ ___ ___			<input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1 SAT UN-SAT N/A Loose Members ___ ___ <input checked="" type="checkbox"/> Cracks ___ <input checked="" type="checkbox"/> ___ Corrosion <input checked="" type="checkbox"/> ___ ___ Gouges <input checked="" type="checkbox"/> ___ ___ Thread Damage <input checked="" type="checkbox"/> ___ ___ Deformation <input checked="" type="checkbox"/> ___ ___ Protective Coating <input checked="" type="checkbox"/> ___ ___ Evidence of Leakage <input checked="" type="checkbox"/> ___ ___ Other** ___ ___ <input checked="" type="checkbox"/>
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined			* minor surface corrosion; toolmarks noted. <i>examined 20 STUDS and 40 NUTS after flange disassembly</i>
Comments <i>examined studs and nuts, noted no visible wastage of cross sectional area on threaded surface 3-28-00</i>			

10/15/99 3:46

SHARED

FIGURE 1

FNP-0 E-100.21

RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1	Line Number/Examination Area/Weld No. Q1E11H0001A	Drawing Number N/A	Sheet No.																																																																		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video																																																																		
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight																																																																			
Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		Tools <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level																																																																			
		WO/WA M 2000 1763 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial M. GRELL Sig. <i>M. Grell</i> Level II Examiner/Initial N/A Level Sig. N/A Date (Month-Day-Year) 3/17/00																																																																			
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>N/A WELDS & BASE MATERIAL VT-1</td> <td>SAT</td> <td>UN-SAT</td> <td>N/A</td> <td>BOLTS, STUDS, AND WASHERS VT-1</td> <td>SAT</td> </tr> <tr> <td>Ground Blend Material</td> <td>---</td> <td>---</td> <td>---</td> <td>Loose Members</td> <td>---</td> </tr> <tr> <td>Undercut</td> <td>---</td> <td>---</td> <td>---</td> <td>Cracks</td> <td>---</td> </tr> <tr> <td>Corrosion build-Up</td> <td>---</td> <td>---</td> <td>---</td> <td>Corrosion</td> <td>✓</td> </tr> <tr> <td>Gouges</td> <td>---</td> <td>---</td> <td>---</td> <td>Gouges</td> <td>✓*</td> </tr> <tr> <td>Evidence of Leakage</td> <td>---</td> <td>---</td> <td>---</td> <td>Thread Damage</td> <td>✓*</td> </tr> <tr> <td>Arc Strikes</td> <td>---</td> <td>---</td> <td>---</td> <td>Deformation</td> <td>✓</td> </tr> <tr> <td>Cracks</td> <td>---</td> <td>---</td> <td>---</td> <td>Protective Coating</td> <td>✓</td> </tr> <tr> <td>Other **</td> <td>---</td> <td>---</td> <td>---</td> <td>Evidence of Leakage</td> <td>---</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Other**</td> <td>---</td> </tr> </tbody> </table>										N/A WELDS & BASE MATERIAL VT-1	SAT	UN-SAT	N/A	BOLTS, STUDS, AND WASHERS VT-1	SAT	Ground Blend Material	---	---	---	Loose Members	---	Undercut	---	---	---	Cracks	---	Corrosion build-Up	---	---	---	Corrosion	✓	Gouges	---	---	---	Gouges	✓*	Evidence of Leakage	---	---	---	Thread Damage	✓*	Arc Strikes	---	---	---	Deformation	✓	Cracks	---	---	---	Protective Coating	✓	Other **	---	---	---	Evidence of Leakage	---					Other**	---
N/A WELDS & BASE MATERIAL VT-1	SAT	UN-SAT	N/A	BOLTS, STUDS, AND WASHERS VT-1	SAT																																																																
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* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined # minor surface corrosion & tool marks noted. <i>MW 3/17/00</i>																																																																					
Comments examined (1) STUD after removal for inspection. no visible wastage of cross sectional area or threaded surfaces noted @ time of exam. MW 3/17/00																																																																					

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

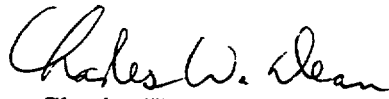
SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1		Line Number/Examination Area/Weld No. Q1E11H0001A			Drawing Number N/A		Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA M 20001763 Procedure No. FNP-0-NDE-100.23 Revision No. 3		
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		Examiner/Initial Sig. M. GRELL Mandel Grell		Level <input checked="" type="checkbox"/> II
Date (Month-Day-Year) <p style="text-align: right;">3/17/00</p>		Examiner/Initial Sig. N/A			Level _____				
N/A SNUBBERS VT-3 SAT UN-SAT N/A Loose Bolt or Pin Connections _____ Shaft Seal _____ Fluid Leakage _____ Fluid Tubing Condition _____ Shaft Cleanliness _____ Spherical Bearings _____ Cotter & Clevis Pins Intact _____ Other** _____			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A Pitting <input checked="" type="checkbox"/> Corrosion <input checked="" type="checkbox"/> Erosion <input checked="" type="checkbox"/> Foreign Material <input checked="" type="checkbox"/> Gouged Parts <input checked="" type="checkbox"/> Wear <input checked="" type="checkbox"/> Evidence of Leakage _____ Other Cracks** _____			N/A HANGER & SUPPORTS VT-3 SAT UN-SAT N/A Setting: _____ Hot _____ Cold _____ Misalignment _____ Damaged Members _____ Gouges _____ Arc Strikes _____ Grind Marks _____ Freedom of Movement _____ Other** _____			
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.									
Comments minor surface corrosion and tool marks noted on the (1) STUD removed for inspection no ^{VISIBLE} wastage of cross sectional area or threaded surfaces noted @ time of exam. MW 3/17/00									

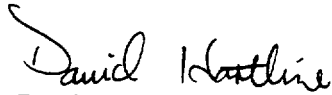
RHR HEAT EXCHANGER Q1E11H0001A
PRESSURE TEST AND BOLTED CONNECTION INSPECTION

The ASME Code required Pressure Test was accomplished during the 1R16 refueling outage. A slight amount of boron buildup was noted in the lower quadrant around the heat exchanger head-to-tubesheet gasket. The boron buildup was dry and no evidence of an active leak was noted. The area around the gasket and bolting was cleaned, and as much of the boron buildup as possible was removed without disassembly of the heat exchanger. A small amount of boron residue could not be removed with the heat exchanger intact. The stud in the vicinity of maximum boron buildup was removed and VT-3/VT-1 examined for evidence of corrosion. No evidence of wastage or any other corrosion mechanism was observed during the visual examination. The stud was reinstalled in the heat exchanger.

The head-to-tubesheet bolting for Heat Exchanger Q1E11H001A will be given the Code required visual examination for evidence of corrosion in conjunction with the next Code required Pressure Test in approximately 40 months during the next ISI Period.



Prepared by: Charles W. Dean
May 15, 2000



Approved by: David B. Hartline
May 15, 2000

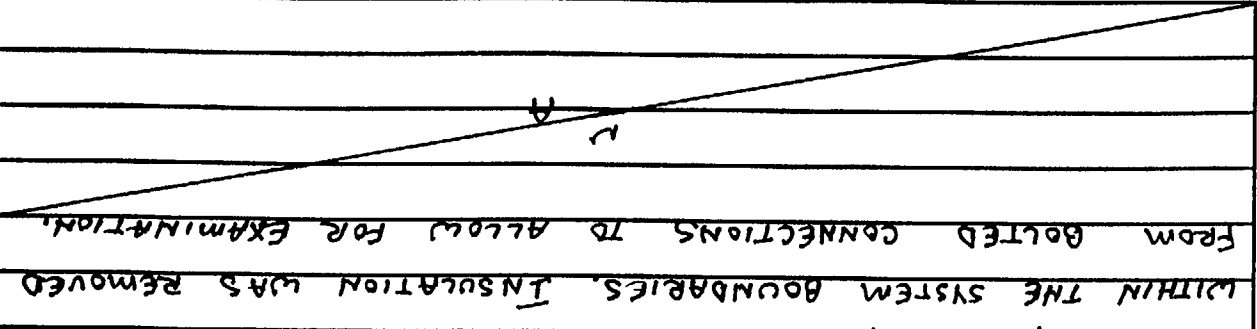
SHARED

VISUAL EXAMINATION RECORD - VT2

FIGURE 1

SOUTHERN NUCLEAR OPERATING COMPANY

FARLEY NUCLEAR PLANT

Plan/Unit FARLEY 11		Data Package Ref. 100.7-1	Drawing Number D-351107 SHT.1 D-351115 SHT.2 D-351118 SHT.1
WOWA No. W00600211		System Boundaries	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner	<i>[Signature]</i>		
Level	II		
Examiner	N/A		
Level	N/A		
Date (Month-Day-Year) 3-9-00			
SKETCH		<p>ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES. INSULATION WAS REMOVED FROM BOLTED CONNECTIONS TO ALLOW FOR EXAMINATION.</p> 	
Examination (Per Para. 7.5)		<p>✓ Unsatisfactory</p>	
<p>*Provide details on unsat areas</p> <p>① AVO26B - HEAVY DRY BOREN BUILD-UP ON BOLTS, FLANGE AND GASKET ② 1ST FLANGE V/S OF PUMP - LIGHT DRY BOREN BUILD-UP ON FLANGE, BOLTS AND GASKET ③ QVO33B - MODERATE DRY BOREN BUILD-UP ON GASKET & BOLTING ④ AVO26B - MODERATE DRY BOREN BUILD-UP ON GASKET AND BOLTING ⑤ QVO33B - MODERATE DRY BOREN BUILD-UP ON END CAP ⑥ QVO66B - MODERATE DRY BOREN BUILD-UP ON END CAP ⑦ AVO25B - MODERATE DRY BOREN BUILD-UP ON END CAP ⑧ QVO79B - MODERATE DRY BOREN BUILD-UP ON END CAP ⑨ QVO70B - MODERATE DRY BOREN BUILD-UP ON END CAP ⑩ QVO24B - HEAVY MOIST BOREN BUILD-UP ON GASKET, FLANGE AND BOLTING ⑪ HOOLB - LIGHT DRY BOREN BUILD-UP ON LOWER 1/4 OF FLANGE.</p> <p>THE REMAINDER OF THE SYSTEM WAS SAT.</p>			

J. M. Farley Nuclear Plant - Unit 1, Class 2

Component	Pressure Test	ISI Bdry Dwg No.	Coord	Loc Dwg	Evaluation/ Insulation/ Notes	Remarks
RESIDUAL HEAT EXCHANGER NO 2						
Q1E11H001B-B	160.7-1	D-351118-1	C-9	D-175063	2A/N	TUBE SIDE
RESIDUAL HEAT REMOVAL PUMP NO 2						
Q1E11P001B-B	160.7-1	D-351118-1	E-7	D-175063	2A/N	
¾" ECB-17 (SS)	160.7-1	D-351107-1	F-3	E2602	2A/Y/7	FROM REDUCER
¾" ECB-17	160.7-1	D-351118-1	D-8		2A/Y/7	
>	160.7-1	D-351107-1	E-2		2A/Y/7	TO REDUCER
2" ECB-22	160.7-1	D-351118-1	C-7	E0052	2A/Y/7	TESTED TO VALVE QV013B (A-7)
3" ECB-28	160.7-1	D-351118-1	D-5	EG043, EG045,E0306	2A/Y/7	CROSSOVER LINE BETWEEN RHR PUMP NO. 2 & RHR NO. 2 HEAT EXCHANGER
2" ECB-28	160.7-1	D-351118-1	D-5	E0306	2A/Y/7	BETWEEN REDUCERS (QV037B)
10" ECB-2 (RHR 2)	160.7-1	D-351115-2	G-3	EG517	2A/Y/7	TESTED TO VALVE QV023A (G-3)
10" ECB-15	160.7-1	D-351118-1	E-8	EG046,EG043	2A/Y/7	FROM RHR PUMP NO. 2 TO HX. NO. 2
3/4" ECB-15	160.7-1	D-351118-1	E-9	EG046	2A/Y/7	TESTED TO VALVES QV004B, QV006B
	160.7-1	D-351118-1	E-8	EG046	2A/Y/7	TESTED TO VALVES QV010B
8" ECB-15	160.7-1	D-351118-1	E-7	EG046	2A/Y/7	FROM RHR PUMP NO. 2 TO REDUCER
10" ECB-17	160.7-1	D-351118-1	C-7	EG043,EG044	2A/Y/7	FROM HX. NO. 2
>	160.7-1	D-351115-2	G-4	EG517,EG044	2A/Y/7	TO CROSSOVER (10" ECB-2) INCL. VALVE QV024B
3/4" ECB-17	160.7-1	D-351118-1	C-4	E4096	2A/Y/7	TESTED TO VALVES QV011B, QV012B
8" ECB-25	160.7-1	D-351118-1	C-8	EG043	2A/Y/7	TESTED TO VALVE QV009B (C-7)
8" ECB-31	160.7-1	D-351118-1	D-8	EG043	2A/Y/7	BYPASS AROUND HX. NO. 2
12" ECB-13	160.7-1	D-351118-1	E-3	EG045,EG690	2A/Y/7	PENETRATION (NO. 18) TESTED FROM CTMT WALL TO REDUCER
14" ECB-5 (L2)	160.7-1	D-351115-2	G-8	EG394	2A/Y/7	TESTED TO VALVE QV027B (G-10)
14" ECB-6	160.7-1	D-351115-2	H-5	EG394	2A/Y/7	TESTED TO VALVE QV025B (H-5) QV026B
14" ECB-13	160.7-1	D-351118-1	E-6	EG046	2A/Y/7	FROM REDUCER TO RHR PUMP NO. 2

VISUAL EXAMINATION RECORD - VTZ

Continued

DATA PACKAGE: Ref. 160.7-1

Work order 20001709 written to clean AND check end cap on Q1E11V0083B.
Work order 20001710 written to clean AND check end cap on Q1E11V0068D.
Work order 20001654 written to clean AND check end cap on Q1E11V0065D.
Work order 20001711 written to clean AND check end cap on Q1E11V0079B.
Work order 20001707 written to clean AND check end cap on Q1E11V0070D.

These 5 items are non-Code items and do not require reinspection.

Charles W. Dean 6/15/00

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FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>FARLEY/1</i>	Line Number/Examination Area/Weld No. <i>Q1E11V024B</i>						Drawing Number <i>N/A</i>			Sheet No.				
Photos ___ Yes ___ B&W <input checked="" type="checkbox"/> No ___ Color		Sketch ___ Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) ___ 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct ___ Video ___ Remote			<i>WO/WA 20001704</i>					
									Procedure No. <i>FNP-0-NDE-100.23</i>					
									Revision No. <i>3</i>					
									Examiner/Initial <i>SCOTT R. ERICKSON</i>		Level <i>II</i>			
									Sig. <i>SCOTT R. ERICKSON</i>					
Equipment <input checked="" type="checkbox"/> Mirror ___ Magnifier ___ CCTV		Lighting ___ Ambient <input checked="" type="checkbox"/> Flashlight ___ Droplight		Tools <input checked="" type="checkbox"/> Scale ___ Micrometer ___ Caliper		___ Depth Gauge ___ Comparator ___ Weld Gauge			Examiner/Initial Sig. <i>N/A</i>		Level <i>N/A</i>			
									Date (Month-Day-Year) <i>4-1-00</i>					
<i>N/A</i> SNUBBERS VT-3			SAT	UN-SAT	N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3			SAT	UN-SAT	N/A	<i>N/A</i> HANGER & SUPPORTS VT-3		
Loose Bolt or Pin Connections			___	___	___	Pitting			<input checked="" type="checkbox"/>	___	___	Setting:		
Shaft Seal			___	___	___	Corrosion			<input checked="" type="checkbox"/>	___	___	Hot ___ Cold ___		
Fluid Leakage			___	___	___	Erosion			<input checked="" type="checkbox"/>	___	___	Misalignment		
Fluid Tubing Condition			___	___	___	Foreign Material			<input checked="" type="checkbox"/>	___	___	Damaged Members		
Shaft Cleanliness			___	___	___	Gouged Parts			<input checked="" type="checkbox"/>	___	___	Gouges		
Spherical Bearings			___	___	___	Wear			<input checked="" type="checkbox"/>	___	___	Arc Strikes		
Cotter & Clevis Pins Intact			___	___	___	Evidence of Leakage			<input checked="" type="checkbox"/>	___	___	Grind Marks		
Other**			___	___	___	Other Cracks**			___	___	<input checked="" type="checkbox"/>	Freedom of Movement		
* Provide details on unsat areas by use of supplemental data sheet.												Other**		
** Provide details on other areas examined.														

Comments *EXAMINED FLANGE & GASKET SEATING SURFACE. EXAMINED (20) STUDS & (40) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 4-1-00*

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E11V024B	Drawing Number N/A	Sheet No.																																																																																								
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote																																																																																								
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight																																																																																									
Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		Tools <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level																																																																																									
Examiner/Initial <i>SCOTT R. ERICSON</i> Sig. <i>SCOTT R. ERICSON</i>		Level II																																																																																									
Examiner/Initial Sig. <i>N/A</i>		Level N/A																																																																																									
Date (Month-Day-Year) <p style="text-align: right; font-size: 1.2em;">4-1-00</p>																																																																																											
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%;">SAT</th> <th style="width: 10%;">UN-SAT</th> <th style="width: 10%;">N/A</th> <th style="width: 50%;"></th> <th style="width: 10%;">SAT</th> <th style="width: 10%;">UN-SAT</th> <th style="width: 10%;">N/A</th> </tr> </thead> <tbody> <tr> <td colspan="4"><i>N/A</i> WELDS & BASE MATERIAL VT-1</td> <td colspan="4"><input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1</td> </tr> <tr> <td>Ground Blend Material</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td>Loose Members</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Undercut</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td>Cracks</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <td>Corrosion build-Up</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td>Corrosion</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <td>Gouges</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td>Gouges</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <td>Evidence of Leakage</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td>Thread Damage</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <td>Arc Strikes</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td>Deformation</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <td>Cracks</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td>Protective Coating</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <td>Other **</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td>Evidence of Leakage</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td>Other**</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </tbody> </table>					SAT	UN-SAT	N/A		SAT	UN-SAT	N/A	<i>N/A</i> WELDS & BASE MATERIAL VT-1				<input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1				Ground Blend Material	—	—	—	Loose Members	—	—	<input checked="" type="checkbox"/>	Undercut	—	—	—	Cracks	<input checked="" type="checkbox"/>	—	—	Corrosion build-Up	—	—	—	Corrosion	<input checked="" type="checkbox"/>	—	—	Gouges	—	—	—	Gouges	<input checked="" type="checkbox"/>	—	—	Evidence of Leakage	—	—	—	Thread Damage	<input checked="" type="checkbox"/>	—	—	Arc Strikes	—	—	—	Deformation	<input checked="" type="checkbox"/>	—	—	Cracks	—	—	—	Protective Coating	<input checked="" type="checkbox"/>	—	—	Other **	—	—	—	Evidence of Leakage	—	—	<input checked="" type="checkbox"/>		—	—	—	Other**	—	—	<input checked="" type="checkbox"/>
	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A																																																																																				
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* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined																																																																																											
Comments <i>EXAMINED (20) STUDS & (40) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 4-1-00</i>																																																																																											

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>FARLEY / 1</i>	Line Number/Examination Area/Weld No. <i>Q1E11V026B</i>	Drawing Number <i>N/A</i>	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	
Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		Tools <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level	
Examiner/Initial <i>SCOTT R. ERICKSON</i> Sig. <i>SCOTT R. ERICKSON</i>		Level <i>II</i>	
Examiner/Initial Sig. <i>N/A</i>		Level <i>N/A</i>	
Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;"><i>3-30-00</i></p>			
<i>N/A</i> SNUBBERS VT-3 SAT UN-SAT N/A Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	<i>N/A</i> HANGER & SUPPORTS VT-3 SAT UN-SAT N/A Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**	
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.		MINOR SURFACE CORROSION NOTED ON NUTS. SEE 3-30-00	
Comments <i>EXAMINED FLANGE & GASKET SEATING SURFACE. EXAMINED (24) STUDS & (48) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM</i>			

SPE 3-30-00

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. <i>Q1E11 V026B</i>	Drawing Number <i>N/A</i>	Sheet No.																																																																																								
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote																																																																																								
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		(W)WA <i>20001828</i> Procedure No. FNP-0-NDE-100.21 Revision No. <i>1</i> Examiner/Initial <i>SCOTT R. ERICKSON</i> Level <i>II</i> Sig. <i>Scott R. Erickson</i> Examiner/Initial Level Sig. <i>N/A</i> <i>N/A</i> Date (Month-Day-Year) <p style="text-align: center;"><i>3-30-00</i></p>																																																																																									
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	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A																																																																																				
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Corrosion build-Up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Corrosion	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																				
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Comments <i>EXAMINED (24) STUDS & (48) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 3-30-00</i>																																																																																											

SHARED

FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1	Line Number/Examination Area/Weld No. Q1E11V033B	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge
(WO)WA 20001831 Procedure No. FNP-0-NDE-100.23 Revision No. 3		Examiner/Initial Scott R. Erickson Level II Sig. <i>Scott R. Erickson</i>	
Examiner/Initial Paul D. Dilorenzo Level II Sig. <i>Paul D. Dilorenzo</i>		Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;">3-30-00</p>	
N/A SNUBBERS VT-3 SAT UN-SAT N/A Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	SAT UN-SAT N/A <input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	N/A HANGER & SUPPORTS VT-3 SAT UN-SAT N/A Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**	
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.		MINOR TOOL MARKS ON STUDS & NUTS NOTED AT TIME OF EXAM SRE 3-30-00	

Comments **EXAMINED FLANGE & GASKET SEATING SURFACE. EXAMINED (12) STUDS & (24) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM SRE 3-30-00**

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1E11V033B	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	
Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		Tools <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level	
		(WOWA) 20001831 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial SCOTT R. ERICKSON Level II Sig. Scott R. Erickson Examiner/Initial _____ Level N/A Sig. N/A Date (Month-Day-Year) <p style="text-align: right; font-size: 1.2em;">3-30-00</p>	
N/A WELDS & BASE MATERIAL VT-1			UN-SAT N/A
Ground Blend Material Undercut Corrosion build-Up Gouges Evidence of Leakage Arc Strikes Cracks Other **			SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____
BOLTS, STUDS, AND WASHERS VT-1			UN-SAT N/A
Loose Members Cracks Corrosion Gouges Thread Damage Deformation Protective Coating Evidence of Leakage Other**			SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined			MINOR TOOL MARKS NOTED ON STUDS & NUTS <p style="text-align: right; font-size: 1.2em;">SRE 3-30-00</p>
Comments EXAMINED (12) STUDS & (24) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 3-30-00			

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1E11VD32B	Drawing Number N/A	Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video	(W)WA 20001833 Procedure No. FNP-0-NDE-100.21
				Revision No. 1 Examiner/Initial <u>SCOTT R. ERICKSON</u> Level <u>II</u> Sig. <u>SCOTT R. ERICKSON</u>
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper	<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level	Examiner/Initial Sig. <u>N/A</u> Level <u>N/A</u>
				Date (Month-Day-Year) <p style="text-align: center;">3-22-00</p>

	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A
<u>N/A</u> WELDS & BASE MATERIAL VT-1				<input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1			
Ground Blend Material	—	—	—	Loose Members	—	—	✓
Undercut	—	—	—	Cracks	✓	—	—
Corrosion build-Up	—	—	—	Corrosion	✓*	—	—
Gouges	—	—	—	Gouges	✓	—	—
Evidence of Leakage	—	—	—	Thread Damage	✓	—	—
Arc Strikes	—	—	—	Deformation	✓	—	—
Cracks	—	—	—	Protective Coating	✓	—	—
Other **	—	—	—	Evidence of Leakage	—	—	✓
				Other**	—	—	✓

* Provide details on unsat areas by use of supplemental data sheet.
** Provide details on other areas examined

* MINOR SURFACE CORROSION ON STUD SEE 3-22-00

Comments EXAMINED (2) STUDS & (4) NUTS (ALL BOLTING AFFECTED BY LEAKAGE) AFTER REMOVAL (ONE AT A TIME) FOR INSPECTION. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREAD SURFACES NOTED AT TIME OF EXAM. SEE 3-22-00

SHARED

FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY/1	Line Number/Examination Area/Weld No. Q1E11V032B			Drawing Number N/A			Sheet No.				
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		(WO)WA 20001833 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial SCOTT R. ERICKSON Level II Sig. SCOTT R. ERICKSON			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level		Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) <p style="text-align: center;">3-22-00</p>			
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____ _____			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____ _____		
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.			* MINDR SURFACE CORROSION ON STUDS SEE-3-22-00			N/A HANGER & SUPPORTS VT-3 Setting: Hot _____ Cold _____ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____ _____		
Comments EXAMINED (2) STUDS & (4) NUTS (ALL BOLTING AFFECTED BY LEAKAGE) AFTER REMOVAL (ONE AT A TIME) FOR INSPECTION. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREAD SURFACES AT THE TIME OF EXAM.											

SEE 3-22-00

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11	Line Number/Examination Area/Weld No. FLANGED SPOOL PIECE U/S OF DIEHEAD			Drawing Number N/A			Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			(WO)WA 20001835 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial SCOTT R. ERICKSON Level II Sig. SCOTT R. ERICKSON			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge			Examiner/Initial Sig. N/A Level N/A		Date (Month-Day-Year) 3-28-00		
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____	N/A HANGER & SUPPORTS VT-3 Setting: Hot _____ Cold _____ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**	SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____		
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.		MINOR SURFACE CORROSION & TOOL MARKS ON STUDS & NUTS. SRE 3-28-00							

Comments **EXAMINED FLANGE & GASKET SEATING AREA- SEE PAGE 2 FOR UNSAT CONDITION, EXAMINED (40) STUDS & (80) NUTS AFTER REMOVAL FROM FLANGES. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 3-28-00**

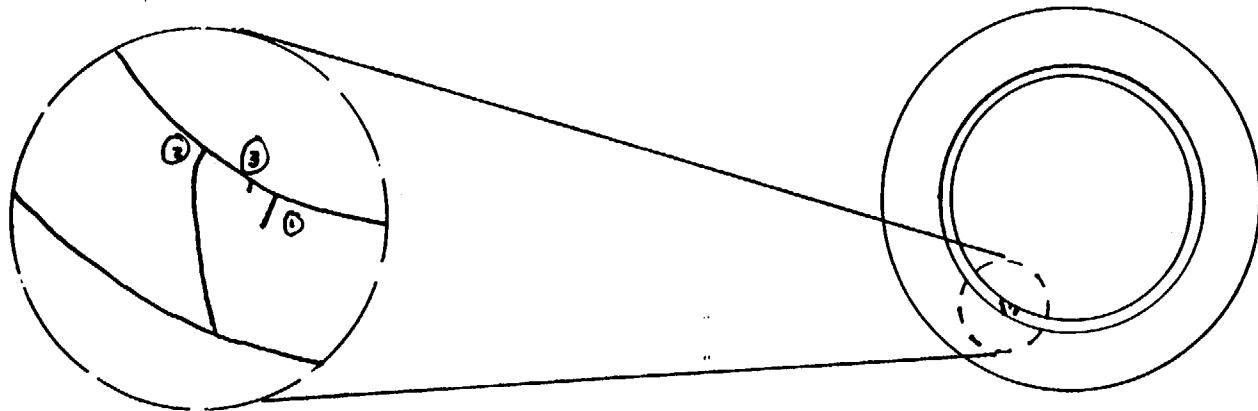
FIGURE 3

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>FARLEY / 1</i>	Line Number/Examination Area/Weld No. <i>2ND FLANGE U/S OF Q1E11P001B</i>	Drawing Number <i>N/A</i>	Sheet No.	
WO/WA No. <i>20001835</i>	Date (Month-Day-Year) <i>3-28-00</i>	Examiner <i>Scott R. Erickson</i>	Level <i>II</i>	Location <i>A/B 77' ELEV. Rm 129</i>
Procedure No. <i>FNP-0-NDE-100.23</i>				
Revision No. <i>3</i>				



Comments: #1 - .5" LONG GOUGE APPROXIMATELY 1/16" DEEP #2 - 2.6" LONG GOUGE APPROXIMATELY 1/32" DEEP TO 1/64" DEEP #3 - .3" LONG GOUGE APPROXIMATELY 1/16" DEEP	Page <u>2</u> of <u>2</u>
---	---------------------------

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. FLANGED SPOOL PIECE U/S OF Q1E11P001B			Drawing Number N/A		Sheet No.																																																																													
Photos ___ Yes ___ B&W <input checked="" type="checkbox"/> No ___ Color	Sketch ___ Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) ___ 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct ___ Video ___ Remote		<input checked="" type="checkbox"/> WOJWA 20001835 Procedure No. FNP-0-NDE-100.21 Revision No. 1																																																																													
		Equipment <input checked="" type="checkbox"/> Mirror ___ Magnifier ___ CCTV		Lighting ___ Ambient <input checked="" type="checkbox"/> Flashlight ___ Droplight		Tools <input checked="" type="checkbox"/> Scale ___ Depth Gauge ___ Micrometer ___ Comparator ___ Caliper ___ Level ___ Weld Gauge		Examiner/Initial SCOTT R. ERICSSON Level II Sig. SCOTT R. ERICSSON Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) 3-28-00																																																																											
N/A WELDS & BASE MATERIAL VT-1 <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>SAT</th> <th>UN-SAT</th> <th>N/A</th> </tr> </thead> <tbody> <tr><td>Ground Blend Material</td><td>___</td><td>___</td><td>___</td></tr> <tr><td>Undercut</td><td>___</td><td>___</td><td>___</td></tr> <tr><td>Corrosion build-Up</td><td>___</td><td>___</td><td>___</td></tr> <tr><td>Gouges</td><td>___</td><td>___</td><td>___</td></tr> <tr><td>Evidence of Leakage</td><td>___</td><td>___</td><td>___</td></tr> <tr><td>Arc Strikes</td><td>___</td><td>___</td><td>___</td></tr> <tr><td>Cracks</td><td>___</td><td>___</td><td>___</td></tr> <tr><td>Other **</td><td>___</td><td>___</td><td>___</td></tr> </tbody> </table>					SAT	UN-SAT	N/A	Ground Blend Material	___	___	___	Undercut	___	___	___	Corrosion build-Up	___	___	___	Gouges	___	___	___	Evidence of Leakage	___	___	___	Arc Strikes	___	___	___	Cracks	___	___	___	Other **	___	___	___	<input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1 <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>SAT</th> <th>UN-SAT</th> <th>N/A</th> </tr> </thead> <tbody> <tr><td>Loose Members</td><td>___</td><td>___</td><td><input checked="" type="checkbox"/></td></tr> <tr><td>Cracks</td><td><input checked="" type="checkbox"/></td><td>___</td><td>___</td></tr> <tr><td>Corrosion</td><td><input checked="" type="checkbox"/>*</td><td>___</td><td>___</td></tr> <tr><td>Gouges</td><td><input checked="" type="checkbox"/></td><td>___</td><td>___</td></tr> <tr><td>Thread Damage</td><td><input checked="" type="checkbox"/>*</td><td>___</td><td>___</td></tr> <tr><td>Deformation</td><td><input checked="" type="checkbox"/></td><td>___</td><td>___</td></tr> <tr><td>Protective Coating</td><td><input checked="" type="checkbox"/></td><td>___</td><td>___</td></tr> <tr><td>Evidence of Leakage</td><td>___</td><td>___</td><td><input checked="" type="checkbox"/></td></tr> <tr><td>Other**</td><td>___</td><td>___</td><td><input checked="" type="checkbox"/></td></tr> </tbody> </table>					SAT	UN-SAT	N/A	Loose Members	___	___	<input checked="" type="checkbox"/>	Cracks	<input checked="" type="checkbox"/>	___	___	Corrosion	<input checked="" type="checkbox"/> *	___	___	Gouges	<input checked="" type="checkbox"/>	___	___	Thread Damage	<input checked="" type="checkbox"/> *	___	___	Deformation	<input checked="" type="checkbox"/>	___	___	Protective Coating	<input checked="" type="checkbox"/>	___	___	Evidence of Leakage	___	___	<input checked="" type="checkbox"/>	Other**	___	___	<input checked="" type="checkbox"/>
	SAT	UN-SAT	N/A																																																																																
Ground Blend Material	___	___	___																																																																																
Undercut	___	___	___																																																																																
Corrosion build-Up	___	___	___																																																																																
Gouges	___	___	___																																																																																
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Other**	___	___	<input checked="" type="checkbox"/>																																																																																
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined				* MINOR SURFACE CORROSION & TOOL MARKS ON STUDS AND NUTS SEE 3-28-00																																																																															
Comments EXAMINED (40) STUDS & (80) NUTS AFTER REMOVAL FROM FLANGES. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SEE 3-28-00																																																																																			

SHARED

FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11	Line Number/Examination Area/Weld No. FLANGE U/S OF Q1E11P001B			Drawing Number N/A			Sheet No.						
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			(WOWA) 20001835 Procedure No. FNP-0-NDE-100.23 Revision No. 3						
		Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge			Examiner/Initial Sig. <i>[Signature]</i> Level # Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;">4-6-00</p>				
N/A SNUBBERS VT-3 SAT UN-SAT N/A				<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A				N/A HANGER & SUPPORTS VT-3 SAT UN-SAT N/A					
Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**				Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**				Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**					
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.													
Comments EXAMINED FLANGE & GASKET SEATING AREA AFTER MACHINING OF SURFACE													

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E11 H0001B	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	
		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge	
		WO/WA M20001765 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial M. GRELL Sig. <i>M. Grell</i> Level <u>II</u> Examiner/Initial N/A Level Date (Month-Day-Year) 3/17/00	

	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A
N/A WELDS & BASE MATERIAL VT-1				BOLTS, STUDS, AND WASHERS VT-1			
Ground Blend Material	—	—	—	Loose Members	—	—	✓
Undercut	—	—	—	Cracks	✓	—	—
Corrosion build-Up	—	—	—	Corrosion	✓*	—	—
Gouges	—	—	—	Gouges	✓*	—	—
Evidence of Leakage	—	—	—	Thread Damage	✓*	—	—
Arc Strikes	—	—	—	Deformation	✓	—	—
Cracks	—	—	—	Protective Coating	✓	—	—
Other **	—	—	—	Evidence of Leakage	—	—	✓
				Other**	—	—	✓

* Provide details on unsat areas by use of supplemental data sheet.
 ** Provide details on other areas examined

* minor surface corrosion & tool marks noted *MJD 3-17-00*

Comments *examined (1) Stud after removal for inspection. No visible wastage of cross sectional area or threaded surfaces noted @ time of exam. MJD 3/17/00*

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY/1		Line Number/Examination Area/Weld No. Q1E11H0001B				Drawing Number N/A			Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			WO/WA M 2000 1765 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial M. GRELL Sig. Maurod Hull			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper			<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level			Examiner/Initial Sig. N/A Date (Month-Day-Year) 3/17/00		
N/A SNUBBERS VT-3 SAT UN-SAT N/A Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**				<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**				N/A HANGER & SUPPORTS VT-3 SAT UN-SAT N/A Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**				

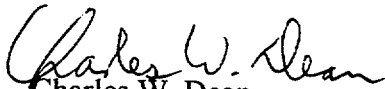
Comments **minor surface corrosion and tool marks noted on the (1) Stud removed for inspection no visible wastage of cross sectional area or threaded surfaces noted @ time of exam MW 3/17/00**

RHR HEAT EXCHANGER Q1E11H0001B
PRESSURE TEST AND BOLTED CONNECTION INSPECTION

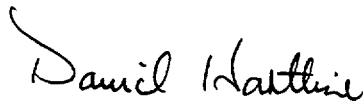
The ASME Code required Pressure Test was accomplished during the 1R16 refueling outage. A slight amount of boron buildup was noted in the lower quadrant around the heat exchanger head-to-tubesheet gasket. The boron buildup was dry and no evidence of an active leak was noted. The area around the gasket and bolting was cleaned, and as much of the boron buildup as possible was removed without disassembly of the heat exchanger. A small amount of boron residue could not be removed with the heat exchanger intact. The stud in the vicinity of maximum boron buildup was removed and VT-3/VT-1 examined for evidence of corrosion. No evidence of wastage or any other corrosion mechanism was observed during the visual examination. The stud was reinstalled in the heat exchanger.

The head-to-tubesheet bolting for Heat Exchanger Q1E11H001B will be given the Code required visual examination for evidence of corrosion in conjunction with the next Code required Pressure Test in approximately 40 months during the next ISI Period.

Prepared by:


Charles W. Dean
May 15, 2000

Approved by:


David B. Hartline
May 15, 2000

02/28/00 07:55:50

SHARED

FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package REF. 160.8-5	Drawing Number D-351116 SHT. 1
WO/WA No. W00600211		System Boundaries THE CVCS RETURN TO LETDOWN HEAT EXCHANGER PIPING WAS EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEET FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES. INSULATION WAS REMOVED TO ALLOW FOR EXAMINATION OF BOLTED CONNECTIONS.	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II		
Examiner N/A	Level N/A		
Date (Month-Day-Year) 3-4-00			
SKETCH			
Examination (Per Para. 7.5) _____ Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas Q1E21V565B - LIGHT DRY BORON BUILD-UP ON BASKET AREA. THE REMAINDER OF THE SYSTEM WAS SAT.			
Comments			

10/15/99 13:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1	Line Number/Examination Area/Weld No. Q1E2140565B			Drawing Number N/A		Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote		WO/WA M20001663 Procedure No. FNP-0-NDE-100.21 Revision No. 1	
		Examiner/Initial M. Grell Sig. M. Grell		Examiner/Initial Sig. N/A		Level Level	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		Date (Month-Day-Year) 3-19-00	
N/A WELDS & BASE MATERIAL VT-1				BOLTS, STUDS, AND WASHERS VT-1			
	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A
Ground Blend Material	---	---	---	Loose Members	---	---	✓
Undercut	---	---	---	Cracks	---	---	---
Corrosion build-Up	---	---	---	Corrosion	✓	---	---
Gouges	---	---	---	Gouges	✓	---	---
Evidence of Leakage	---	---	---	Thread Damage	✓	---	---
Arc Strikes	---	---	---	Deformation	✓	---	---
Cracks	---	---	---	Protective Coating	✓	+	---
Other **	---	---	---	Evidence of Leakage	---	---	---
				Other**	---	---	✓

* Provide details on unsat areas by use of supplemental data sheet.

** Provide details on other areas examined

Note minor tool marks on studs & Nuts

Comments **Examined 8 studs after removal from Valve Body - STUDS SAT REJECTED (1) NUT (7) SAT**
examined (1) New nut to replace rejected nut. New Nut SAT MW 3-19-00

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1	Line Number/Examination Area/Weld No. Q1E 21V 0565B			Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA M 2000 1663 Procedure No. FNP-0-NDE-100.23 Revision No. 3
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper	<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge	<input type="checkbox"/> Level	Examiner/Initial M. GRELL Sig. <i>M. Grell</i> Level 4 Examiner/Initial Sig. Level Date (Month-Day-Year) 3-19-00
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	SAT UN-SAT N/A	N/A UN-SAT SAT	COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	SAT UN-SAT N/A	N/A HANGER & SUPPORTS VT-3 Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.					
Comments examined all bolting in decon room 8 studs sat 7 nuts sat - unsat nut replaced New nut examined prior to installation also sat MUY 3-19-00					

minor tool mark noted on all existing Nuts & Studs

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SHARED

FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plan/Unit FARLEY/1		Data Package REF. 160.2-2	Drawing Number D-351116 SHT.1
WO(A) No. 000600211		System Boundaries THE CVCS CHARGING PIPING WAS EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEET FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES. INSULATION WAS REMOVED FROM BOLTED CONNECTIONS TO ALLOW FOR INSPECTIONS.	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II		
Examiner N/A	Level N/A		
Date (Month-Day-Year) 3-4-00			
SKETCH			
Examination (Per Para. 7.5) <input type="checkbox"/> Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas Q1E2V119 - LIGHT DRY BORON BUILD-UP ON GASKET AREA. THE REMAINDER OF THE SYSTEM WAS SAT.			
Comments			

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>FARLEY /1</i>		Line Number/Examination Area/Weld No. <i>Q1E21V119</i>			Drawing Number <i>N/A</i>			Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		W/O/WA <i>2000 1664</i> Procedure No. <i>FNP-0-NDE-100.23</i> Revision No. <i>3</i> Examiner/Initial <i>SCOTT R. ERICKSON</i> Sig. <i>SCOTT R. ERICKSON</i> Level <i>II</i>			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		<input type="checkbox"/> Level Examiner/Initial Sig. <i>N/A</i> Level <i>N/A</i> Date (Month-Day-Year) <i>3-18-00</i>			
<i>N/A</i> SNUBBERS VT-3 SAT UN-SAT N/A				<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A				<i>N/A</i> HANGER & SUPPORTS VT-3 SAT UN-SAT N/A			
Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**				Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**				Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.				NOTE: NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREAD SURFACES NOTED. SRE 3-18-00							

Comments *EXAMINED GASKET MATING SURFACES AND ASSOCIATED STUDS (12). 11 IN PLACE, 1 REMOVED FROM VALVE BODY. NO ABNORMALITIES NOTED AT TIME OF EXAM. SRE 3-18-00*

SHARED
FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY/1	Line Number/Examination Area/Weld No. Q1E21V119	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level	
Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		(WO/WA) 20001664 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial SCOTT R. ERICSSON Sig. SCOTT R. ERICSSON Level II Examiner/Initial N/A Level N/A Date (Month-Day-Year) 3-18-00	
N/A WELDS & BASE MATERIAL VT-1			UN-SAT N/A
Ground Blend Material	SAT	UN-SAT	N/A
Undercut	—	—	—
Corrosion build-Up	—	—	—
Gouges	—	—	—
Evidence of Leakage	—	—	—
Arc Strikes	—	—	—
Cracks	—	—	—
Other **	—	—	—
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined			UN-SAT N/A ✓ BOLTS, STUDS, AND WASHERS VT-1 SAT UN-SAT N/A Loose Members — — ✓ Cracks ✓ — — Corrosion ✓* — — Gouges ✓* — — Thread Damage ✓* — — Deformation ✓ — — Protective Coating ✓ — — Evidence of Leakage — — ✓ Other** — — ✓
Comments EXAMINED (12) STUDS TOTAL (11) IN PLACE, (1) REMOVED FROM VALVE BODY. NO ABNORMALITIES OR VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SEE 3-18-00			* MINOR SURFACE CORROSION AND TOOL MARKS NOTED. SEE 3-18-00

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SHARED

FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11		Data Package REF. 160.5-1	Drawing Number D-351116 SHT.1
WO/WA No. W00600211		System Boundaries THE NORMAL LETDOWN PIPING WAS EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEET FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES. INSULATION WAS REMOVED FROM BOLTED CONNECTIONS TO ALLOW FOR INSPECTIONS. N/A	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II		
Examiner N/A	Level N/A		
Date (Month-Day-Year) 3-4-00			
SKETCH			
Examination (Per Para. 7.5) _____ Sat _____ <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas ① Q1E21V253A - LIGHT DRY BORON BUILD-UP ON BASKET ② Q1E21V253B - LIGHT DRY BORON BUILD-UP ON STEM ③ Q1E21V253C - MODERATE DRY BORON BUILD-UP ON GASKET. THE REMAINDER OF THE SYSTEM WAS SAT.			
Comments MW02000633 written to clean valve stem and adjust packing. ^{for Q1E21V253B.} No Code items reinspection not required. Charles W. Dunn 5/15/00			

10/15/99 13:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY FARLEY 1	Line Number/Examination Area/Weld No. Q1E21V0253A	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level	WO/WA 20001665 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial M. GRELL Sig. <i>M. Grell</i> Level II Examiner/Initial Sig. N/A Level Date (Month-Day-Year) 3/17/00
N/A WELDS & BASE MATERIAL VT-1		UN-SAT N/A	
Ground Blend Material Undercut Corrosion build-Up Gouges Evidence of Leakage Arc Strikes Cracks Other **	SAT UN-SAT N/A	UN-SAT N/A	UN-SAT N/A
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined	SAT UN-SAT N/A	UN-SAT N/A	UN-SAT N/A
Comments <i>examined (1) stud after removal from Valve body. examined (5) studs 1/p. no visible wastage of cross sectional area or threaded surfaces noted @ time of exam. MKD 3/17/00</i>		Note: <i>STUD Selected for removal was STUD most directly in flow path.</i>	

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1		Line Number/Examination Area/Weld No. Q1E21V0253A			Drawing Number N/A		Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA 20001665 Procedure No. FNP-0-NDE-100.23 Revision No. 1			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		<input type="checkbox"/> Level	Examiner/Initial M. GRELL Sig. M. Grell		Level <input checked="" type="checkbox"/>
Examiner/Initial Sig. N/A		Level <input type="checkbox"/>	Date (Month-Day-Year) 3/17/00							
N/A SNUBBERS VT-3 SAT UN-SAT N/A			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A			<input type="checkbox"/> HANGER & SUPPORTS VT-3 SAT UN-SAT N/A				
Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**				

Comments **only minor surface corrosion and tool marks noted on valve bolting - examined Gasket Seating surfaces and (5) Bolts in place. examined (1) Bolt after removal from Valve Body. Bolt selected was bolt most directly in direction flow path. no visible wastage of cross sectional area or threaded surfaces noted. MJ 3/17/00**

SHAWED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1		Line Number/Examination Area/Weld No. Q1E21V0253C				Drawing Number N/A		Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA 20001666 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial M. GRELL Sig. <i>Mant d Hill</i>			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		Level Examiner/Initial Sig. N/A Date (Month-Day-Year) 3-18-00			
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			SAT UN-SAT N/A ___			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			SAT UN-SAT N/A ___		
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.			Note No visible wastage of cross sectional area or thread surfaces noted. MB 3/18/00			N/A HANGER & SUPPORTS VT-3 Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			SAT UN-SAT N/A ___		
Comments examined gasket mating surfaces and associated studs (6), 2 in place 4 removed from valve body. No Abnormalities noted @ time of exam. MB 3/18/00											

10/15/99 3:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1	Line Number/Examination Area/Weld No. Q1E21V0253C			Drawing Number N/A		Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video		WO/WA 20001666 Procedure No. FNP-0-NDE-100.21 Revision No. 1			
		Examiner/Initial M. GRELL Sig. <i>M. Grell</i> Level II		Examiner/Initial Sig. N/A Level		Date (Month-Day-Year) 3-18-00			
		Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge			
		WELDS & BASE MATERIAL VT-1 SAT UN-SAT N/A							
Ground Blend Material Undercut Corrosion build-Up Gouges Evidence of Leakage Arc Strikes Cracks Other **			SAT UN-SAT N/A			BOLTS, STUDS, AND WASHERS VT-1 SAT UN-SAT N/A			
Loose Members Cracks Corrosion Gouges Thread Damage Deformation Protective Coating Evidence of Leakage Other**			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined		* minor surface corrosion and tool marks noted. <i>MW 3-18-00</i>	
Comments examined (6) STUDS total (2) V/P (4) removed from Valve Body. No Abnormalities or visible wastage of cross sectional area or threaded surfaces noted @ time of exam. MW 3/18/00									

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SHARED

FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1		Data Package TPNS Q1E21V243	Drawing Number D-351116 SHT.1		
WO/WA No. W00600211		System Boundaries RCS ALTERNATE CHARGING LINE ISOLATION VALVE BODY TO BONNET JOINT.			
Procedure No. FNP-0-NDE-100.22					
Revision No. 2					
Examiner Scott R. Erickson	Level II				
Examiner N/A	Level N/A				
Date (Month-Day-Year) 3-4-00					
SKETCH		N #			
Examination (Per Para. 7.5)					
<input type="checkbox"/> Sat <input checked="" type="checkbox"/> *Unsat					
*Provide details on unsat areas SEE FIGURE 2 - PAGE 2 OF 2					
Comments REF. RR-27					

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SHARED

FNP-0-NDE-100.22
RTYPE: L1.09

FIGURE 2

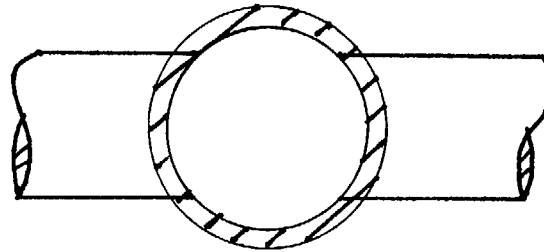
VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1E210243	Drawing Number D-351116 SHT.1	
WO/WA No. W00600211	Date (Month-Day-Year) 3-4-00	Examiner Scott R. Erickson	Level II
Procedure No. FNP-0-NDE-100.22			Location CTMT OMB 107'EL.
Revision No. 2			

Flow →



Comments: MODERATE DRY BORON BUILD-UP ON GASKET AREA.

10/15/99 3:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E21V0243			Drawing Number N/A		Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA 20001668 Procedure No. FNP-0-NDE-100.21 Revision No. 1	
		Examiner/Initial M. GRIFFIN Sig. <i>M. Griffin</i>		Level II			
		Examiner/Initial Sig. N/A		Level			
		Date (Month-Day-Year) 3-29-00					
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level			
N/A WELDS & BASE MATERIAL VT-1				UN-SAT SAT N/A			
Ground Blend Material Undercut Corrosion build-Up Gouges Evidence of Leakage Arc Strikes Cracks Other **				UN-SAT SAT N/A <input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1 Loose Members Cracks Corrosion Gouges Thread Damage Deformation Protective Coating Evidence of Leakage Other**			
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined				examined (1) STUD ^{removed} imp from Valve(s) studs examined (1/P)			
Comments examined studs and nuts. No visible wastage of cross sectional area or threaded surfaces noted @ time of exam. MWS 3-29-00							

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1		Line Number/Examination Area/Weld No. Q1E21V0243			Drawing Number N/A			Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			WO/WA 20001668 Procedure No. FNP-0-NDE-100.23 Revision No. 3			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge			Examiner/Initial Sig. M. Grell		Level <input checked="" type="checkbox"/>	Examiner/Initial Sig. N/A		Level <input type="checkbox"/>
Date (Month-Day-Year) <p style="text-align: center;">3-29-00</p>											
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	N/A HANGER & SUPPORTS VT-3 Setting: Hot Cold Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.			* minor tool marks noted examined 1 stud removed & 5 in place								
Comments <i>examined studs and nuts as well as gaslat areas. no abnormalities noted @ time of exam.</i>											

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SHARED

FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11		Data Package TPNS Q1E11V043A	Drawing Number D-351115 SHT-2
WO(WA) No. W00600211		System Boundaries SAFETY INJECTION TO RCS COLD LEGS ISOLATION VALVE BODY TO BONNET JOINT.	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II		
Examiner N/A	Level N/A		
Date (Month-Day-Year) 3-4-00			
SKETCH			
Examination (Per Para. 7.5) _____ Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas SEE FIGURE 2 - PAGE 2 OF 2			
Comments REF. RR-27			

SHARED

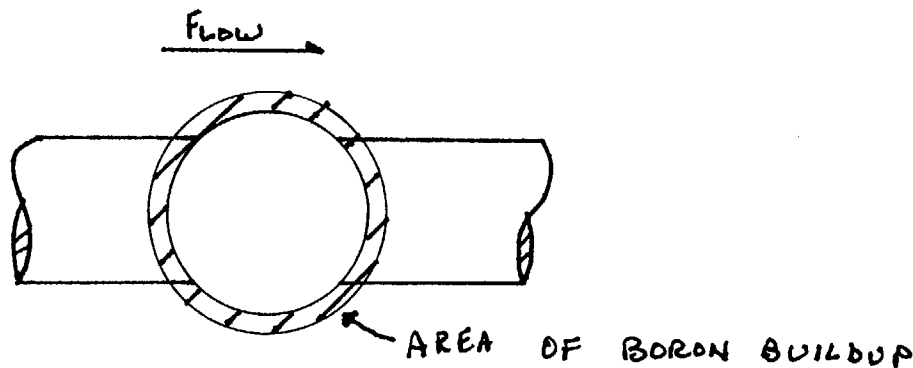
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11	Line Number/Examination Area/Weld No. Q1E11V043A		Drawing Number D-351115 SHT.2	
WO/WA No. W00600211	Date (Month-Day-Year) 3-4-00	Examiner Scott R. Erichson	Level II	Location CTMT OMB 110'EL.
Procedure No. FNP-0-NDE-100.22				
Revision No. 2				



Comments: LIGHT DRY BORON BUILD-UP ON GASKET AREA.

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>Farley 1</i>	Line Number/Examination Area/Weld No. <i>Q1E11V043A</i>			Drawing Number <i>N/A</i>	Sheet No.	
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		
		WO/WA <i>2000 1670</i>				Procedure No. <i>FNP-0-NDE-100.23</i>
		Revision No. <i>3</i>				Examiner/Initial <i>M. GRELL</i> Sig. <i>Manfred Grell</i>
		Examiner/Initial <i>N/A</i> Sig. <i>N/A</i>				Level <i>II</i>
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level	Examiner/Initial Sig. <i>N/A</i> Date (Month-Day-Year) <i>3-22-00</i>	
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	SAT UN-SAT N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	SAT UN-SAT N/A	N/A HANGER & SUPPORTS VT-3 Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**	SAT UN-SAT N/A	
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.						
Comments <i>Examined 12 STUDS Total 12 NUTS TOTAL minor corrosion & tool marks noted. Examined now gasket and gasket seating surfaces. no abnormalities noted @ Time of exam. NY 3-22-00</i>						

examined 11 STUDS after removal from Valve body (1) STUD examined (I/P)

10/15/99 3:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

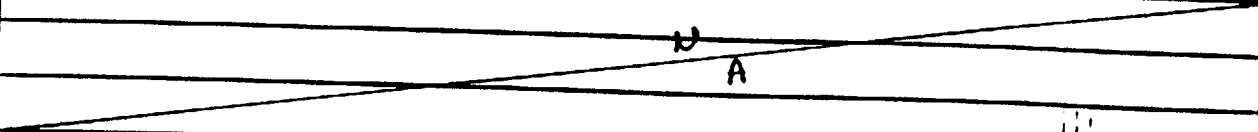
Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E11V043A	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	
Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		Tools <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level	
WO/WA 20001670 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial M. GRELL Sig. <i>M. Grell</i> Level II		Examiner/Initial Sig. N/A Level	
Date (Month-Day-Year) 3-22-00			
N/A WELDS & BASE MATERIAL VT-1			UN-SAT N/A
Ground Blend Material			SAT
Undercut			—
Corrosion build-Up			—
Gouges			—
Evidence of Leakage			—
Arc Strikes			—
Cracks			—
Other **			—
* Provide details on unsat areas by use of supplemental data sheet.			
** Provide details on other areas examined			
✓ BOLTS, STUDS, AND WASHERS VT-1			UN-SAT N/A
Loose Members			—
Cracks			—
Corrosion			✓
Gouges			✓
Thread Damage			✓
Deformation			✓
Protective Coating			✓
Evidence of Leakage			✓
Other**			—
minor surface corrosion & tool marks noted on studs & Nuts ^{MH} 3-22-00			
Comments: Examined 11 studs removed from Valve body (1) STUD I/P examined 12 Nuts. No visible wastage of cross sectional area or threaded surfaces noted @ time of exam MH 3-22-00			

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package REF. 160.6-1	Drawing Number D-351107 SHT.1
W(X)WA No. W00600211		System Boundaries	
Procedure No. FNP-0-NDE-100.22		<p>THE RHR 'A' TRAIN PIPING WAS EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEETS FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES. INSULATION WAS REMOVED FROM BOLTED CONNECTIONS TO ALLOW FOR EXAMINATION.</p> 	
Revision No. 2			
Examiner <i>[Signature]</i>	Level II		
Examiner N/A	Level		
Date (Month-Day-Year) 05-16-00			
SKETCH			
Examination (Per Para. 7.5) <input type="checkbox"/> Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas THE FOLLOWING UNSATS: Q1E11V037A LIGHT DRY BORON BUILDUP @ GASKET 360°			
Q1E11V065C MODERAT DRY BORON ON ENDCAP, Q1E11V037A HEAVY DRY BORON BUILDUP AROUND STEM & STEM SEAL AND LIGHT DRY BORON INTERMITTANT LOWER 1/2 OF RHR HX FLANGE GASKET AREA.			
Comments MWO 20004078 written to clean and repair endcap Q1E11V065C AS NECESSARY. MWO 20004079 written to clean valve stem and check packing on Q1E11V037A. MWO 20004077 written to clean and repair gasket for valve Q1E11V0027A AS NECESSARY (BORON IS NOT IN CONTACT WITH BOLTING). THESE ARE NOT CODE ITEMS, REINSPECTION IS NOT REQUIRED.			

Charles W. Dean 5/16/00

10/15/99 3:46

SHARED

FIGURE 1

FNP-0 E-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

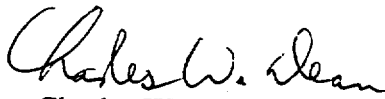
Plant/Unit FARLEY 1	Line Number/Examination Area/Weld No. Q1E11H0001A			Drawing Number N/A		Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video		WO/WA M 2000 1763			
		Procedure No. FNP-0-NDE-100.21						Revision No. 1	
		Examiner/Initial M. GRELL Sig. <i>M. Grell</i>						Level II	
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		Examiner/Initial Sig. N/A		
	Date (Month-Day-Year) 3/17/00						Level _____		

NA WELDS & BASE MATERIAL VT-1			SAT	UN-SAT	N/A	✓ BOLTS, STUDS, AND WASHERS VT-1			
Ground Blend Material			_____	_____	_____	Loose Members			
Undercut			_____	_____	_____	Cracks			
Corrosion build-Up			_____	_____	_____	Corrosion			
Gouges			_____	_____	_____	Gouges			
Evidence of Leakage			_____	_____	_____	Thread Damage			
Arc Strikes			_____	_____	_____	Deformation			
Cracks			_____	_____	_____	Protective Coating			
Other **			_____	_____	_____	Evidence of Leakage			
_____			_____	_____	_____	Other**			
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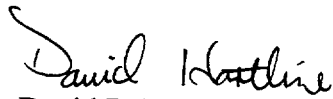
RHR HEAT EXCHANGER Q1E11H0001A
PRESSURE TEST AND BOLTED CONNECTION INSPECTION

The ASME Code required Pressure Test was accomplished during the 1R16 refueling outage. A slight amount of boron buildup was noted in the lower quadrant around the heat exchanger head-to-tubesheet gasket. The boron buildup was dry and no evidence of an active leak was noted. The area around the gasket and bolting was cleaned, and as much of the boron buildup as possible was removed without disassembly of the heat exchanger. A small amount of boron residue could not be removed with the heat exchanger intact. The stud in the vicinity of maximum boron buildup was removed and VT-3/VT-1 examined for evidence of corrosion. No evidence of wastage or any other corrosion mechanism was observed during the visual examination. The stud was reinstalled in the heat exchanger.

The head-to-tubesheet bolting for Heat Exchanger Q1E11H001A will be given the Code required visual examination for evidence of corrosion in conjunction with the next Code required Pressure Test in approximately 40 months during the next ISI Period.



Prepared by: Charles W. Dean
May 15, 2000



Approved by: David B. Hartline
May 15, 2000

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

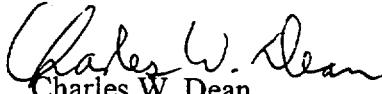
Plant/Unit FARLEY / 1		Data Package REF. 160.7-1	Drawing Number 0-351107 SHT. 1 2-351115 SHT. 2 2-351118 SHT. 1
WOTWA No. W00600211		System Boundaries THE RHR 'B' TRAIN PIPING WAS EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEET FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES. INSULATION WAS REMOVED FROM BOLTED CONNECTIONS TO ALLOW FOR EXAMINATION.	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner <i>Tom Staleno</i>	Level II		
Examiner N/A	Level		
Date (Month-Day-Year) 05-16-00			
SKETCH			
Examination (Per Para. 7.5)			
_____ Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas		THE FOLLOWING UNSATS: Q1E11V070D HEAVY DRY BORON BUILDUP ON ENDCAP, Q1E11V069D HEAVY DRY BORON ON ENDCAP, RHR HX FLANGE LOWER 2/3 LIGHT DRY BORON @ GASKET JOINT, POOLA-B MODERATE BORON BUILDUP ON SHAFT SEAL, Q1E11V067D ACTIVE LEAK 2.0 D.P.M. ON ENDCAP, Q1E11V032B LIGHT DRY BORON ON STEM SEAL, AND Q1E11V023A LIGHT DRY BORON ON STEM SEAL.	

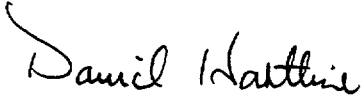
MWO 20004080 written to clean and repair end cap on Q1E11V070D. MWO 20004130 written to clean and repair end cap on Q1E11V069D. MWO 20004107 written to clean and repair shaft seal on Q1E11P001B. MWO written to repair end cap on Q1E11V0067D. MWO 20004102 written to clean and check packing on Q1E11V0032B. MWO 20004104 written to clean and repair Q1E11V0023A as necessary. These are all non-code items, and reinspection is not required. *Chase U. Dean 5/17/00*

RHR HEAT EXCHANGER Q1E11H0001B
PRESSURE TEST AND BOLTED CONNECTION INSPECTION

The ASME Code required Pressure Test was accomplished during the 1R16 refueling outage. A slight amount of boron buildup was noted in the lower quadrant around the heat exchanger head-to-tubesheet gasket. The boron buildup was dry and no evidence of an active leak was noted. The area around the gasket and bolting was cleaned, and as much of the boron buildup as possible was removed without disassembly of the heat exchanger. A small amount of boron residue could not be removed with the heat exchanger intact. The stud in the vicinity of maximum boron buildup was removed and VT-3/VT-1 examined for evidence of corrosion. No evidence of wastage or any other corrosion mechanism was observed during the visual examination. The stud was reinstalled in the heat exchanger.

The head-to-tubesheet bolting for Heat Exchanger Q1E11H001B will be given the Code required visual examination for evidence of corrosion in conjunction with the next Code required Pressure Test in approximately 40 months during the next ISI Period.

Prepared by: 
Charles W. Dean
May 15, 2000

Approved by: 
David B. Hartline
May 15, 2000

10/15/99 13:46

SHARED

FIGURE 1

FNP-0 E-100.21

RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E11 H0001B	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper	WO/WA M20001765 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial M. GRELL Sig. <i>M. Grell</i> Level <u>H</u> Examiner/Initial N/A Level _____ Date (Month-Day-Year) 3/17/00

		UN-SAT	N/A			UN-SAT	N/A
N/A WELDS & BASE MATERIAL VT-1	SAT	UN-SAT	N/A	✓ BOLTS, STUDS, AND WASHERS VT-1	SAT	UN-SAT	N/A
Ground Blend Material	---	---	---	Loose Members	---	---	✓
Undercut	---	---	---	Cracks	✓	---	---
Corrosion build-Up	---	---	---	Corrosion	✓*	---	---
Gouges	---	---	---	Gouges	✓*	---	---
Evidence of Leakage	---	---	---	Thread Damage	✓*	---	---
Arc Strikes	---	---	---	Deformation	✓	---	---
Cracks	---	---	---	Protective Coating	✓	---	---
Other **	---	---	---	Evidence of Leakage	---	---	✓
				Other**	---	---	✓

* Provide details on unsat areas by use of supplemental data sheet.
 ** Provide details on other areas examined

* minor surface corrosion & tool marks noted *MD* 3-17-00

Comments *examined (.) Stud after removal for inspection. No visible wastage of cross sectional area or threaded surfaces noted @ time of exam. MD 3/17/00*

SHADED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY/1		Line Number/Examination Area/Weld No. Q1E11H0001B			Drawing Number N/A			Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA M 2000 1765 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial M. GREY Sig. <i>M. Grey</i>		
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		Level <input type="checkbox"/> Level <input type="checkbox"/> Level <input type="checkbox"/> Level		Examiner/Initial Sig. N/A
Date (Month-Day-Year) 3/17/00		N/A SNUBBERS VT-3 SAT UN-SAT N/A Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			✓ COMP. INTERNALS & MAT'L SURFACE VT-3 SAT UN-SAT N/A Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			N/A HANGER & SUPPORTS VT-3 SAT UN-SAT N/A Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**		
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.										
Comments minor surface corrosion and tool marks noted on the (1) Stud removed for inspection no visible wastage of cross sectional area or threaded surfaces noted @ time of exam M/G 3/17/00										

02/28/00 07:55:50

SHARED

FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /		Data Package ^{TPNS} Q1E21V049	Drawing Number D-351115 SHT. 2
WO/WA No. W00600211		System Boundaries ACCUMULATOR TANKS TO RWST CONTAINMENT ISOLATION VALVE (PENETRATION 29) BODY TO BONNET JOINT.	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II		
Examiner N/A	Level N/A		
Date (Month-Day-Year) 3-4-00			
SKETCH			
Examination (Per Para. 7.5) _____ Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas SEE FIGURE 2 - PAGE 2 OF 2			
Comments			

SHARED

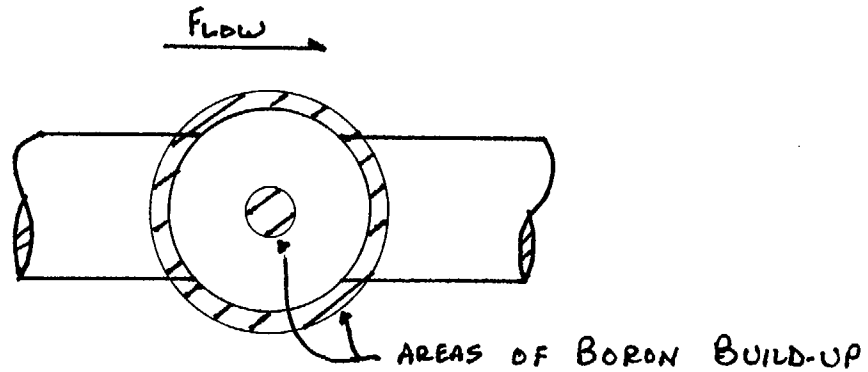
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. 01E21V049	Drawing Number D-351115 SHT.2	
WO/WA No. W00600211	Date (Month-Day-Year) 3-4-00	Examiner Scott R. Erickson	Level II
Procedure No. FNP-0-NDE-100.22			Location CTMT 134' EL.
Revision No. 2			



Comments: MODERATE DRY BORON BUILD-UP ON STEM AND GASKET AREA

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1	Line Number/Examination Area/Weld No. Q1E21V049	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge
		WO/WA 20002026 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial <u>SCOTT R. ERICKSON</u> Level <u>II</u> Sig. <u>SCOTT R. ERICKSON</u> Examiner/Initial _____ Level _____ Sig. <u>N/A</u> Date (Month-Day-Year) <u>3-28-00</u>	
N/A WELDS & BASE MATERIAL VT-1			UN-SAT N/A
Ground Blend Material Undercut Corrosion build-Up Gouges Evidence of Leakage Arc Strikes Cracks Other **	SAT _____ _____ _____ _____ _____ _____ _____	UN-SAT _____ _____ _____ _____ _____ _____ _____	N/A _____ _____ _____ _____ _____ _____
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined			UN-SAT N/A
N/A BOLTS, STUDS, AND WASHERS VT-1			SAT UN-SAT N/A
Loose Members Cracks Corrosion Gouges Thread Damage Deformation Protective Coating Evidence of Leakage Other**			_____ <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> _____ _____ <input checked="" type="checkbox"/>

Comments EXAMINED (6) STUDS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 3-28-00

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plan/Unit FARLEY /1		Data Package <i>TPNS QIE21V050</i>	Drawing Number <i>D-351115 S#T.2</i>
WO/WA No. <i>W00600211</i>		System Boundaries <i>ACCUMULATOR TANKS TO RWST ISOLATION</i>	
Procedure No. FNP-0-NDE-100.22			
Revision No. <i>2</i>			
Examiner <i>Paul A. Adams</i>	Level <i>II</i>	<i>VALVE (PENETRATION 29) BODY TO BONNET JOINT</i>	
Examiner <i>N/A</i>	Level <i>N/A</i>		
Date (Month-Day-Year) <i>3-4-00</i>		<i>N/A</i>	
SKETCH			
Examination (Per Para. 7.5) <input type="checkbox"/> Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas <i>SEE FIGURE 2 - PAGE 2 OF 2</i>			
Comments			

SHARED

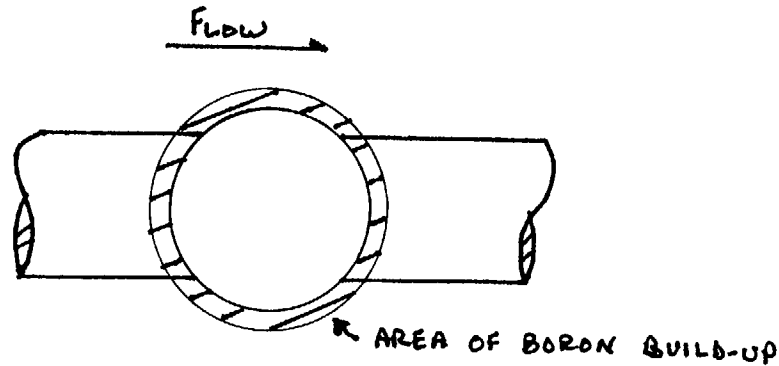
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. QIEZ1V050		Drawing Number D-351115 SHT.2		
WO/WA No. W00600211	Date (Month-Day-Year) 3-4-00	Examiner	Level	Location Aux Bldg. 121' 2m 223	
Procedure No. FNP-0-NDE-100.22					
Revision No. 2					



Comments: MODERATE DRY BORON BUILD-UP ON GASKET AREA

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E21V050	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct
			<input type="checkbox"/> Remote <input type="checkbox"/> Video
			Examiner/Initial <u>SCOTT R. ERICSSON</u> Level <u>II</u> Sig. <u>SCOTT R. ERICSSON</u>
			Examiner/Initial Sig. <u>N/A</u> Level <u>N/A</u>
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge	Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;">3-25-00</p>
			(WO)WA 20002027 Procedure No. FNP-0-NDE-100.21 Revision No. 1
N/A WELDS & BASE MATERIAL VT-1		SAT UN-SAT N/A	
Ground Blend Material		___ ___ ___	
Undercut		___ ___ ___	
Corrosion build-Up		___ ___ ___	
Gouges		___ ___ ___	
Evidence of Leakage		___ ___ ___	
Arc Strikes		___ ___ ___	
Cracks		___ ___ ___	
Other **		___ ___ ___	
* Provide details on unsat areas by use of supplemental data sheet.		** Provide details on other areas examined	
Comments <u>EXAMINED (6) STUDS & (6) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SEE 3-25-00</u>		<u>MINOR TOOL MARKS ON STUDS & MINOR SURFACE CORROSION ON NUTS. SEE 3-25-00</u>	

SHARED

FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>FARLEY 11</i>	Line Number/Examination Area/Weld No. <i>Q1E21V050</i>	Drawing Number <i>N/A</i>	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge
(WO)WA <i>2000 2027</i> Procedure No. <i>FNP-0-NDE-100.23</i> Revision No. <i>3</i> Examiner/Initial <i>SCOTT R. ERICKSON</i> Level <i>II</i> Sig. <i>SCOTT R. ERICKSON</i>		Examiner/Initial Sig. <i>N/A</i> Level <i>N/A</i> Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;"><i>3-25-00</i></p>	
<i>N/A</i> SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**	SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**	SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.		<i>N/A</i> HANGER & SUPPORTS VT-3 Setting: Hot _____ Cold _____ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**	

Comments *EXAMINED FLANGE & GASKET SEATING SURFACE. EXAMINED (6) STUDS & (6) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM SRE 3-25-00*

SHARED

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package ^{TPNS} QLE21V091	Drawing Number D-351115 SHT. 2
WO(WA) No. W00600211		System Boundaries ACCUMULATOR FILL LINE ISOLATION VALVE (PENETRATION 49) BODY TO BONNET JOINT.	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner <i>Paul Nicholson</i>	Level II		
Examiner N/A	Level N/A	<div style="text-align: center;"> </div>	
Date (Month-Day-Year) 3-4-00			
SKETCH			
Examination (Per Para. 7.5)			
<input type="checkbox"/> Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas SEE FIGURE 2 - PAGE 2 OF 2			
Comments			

SHARED

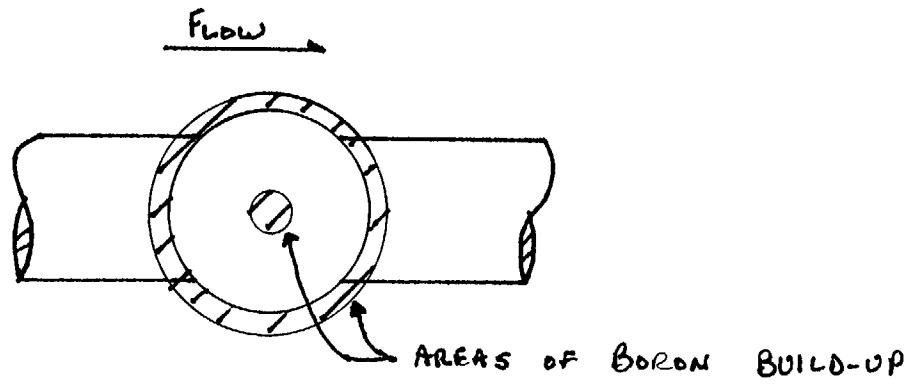
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY II	Line Number/Examination Area/Weld No. QIEZIV091	Drawing Number D-351115 SHT-2	
WO/WA No. W0060021	Date (Month-Day-Year) 3-4-00	Examiner <i>Paul A. Williams</i>	Level
Procedure No. FNP-0-NDE-100.22			Location
Revision No. 2			II



Comments: MODERATE DRY BORON BUILD-UP ON STEM AND GASKET AREA

03/18/00 13:55:19

SHARED

FIGURE 1

FNP-0-NDE-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E21V091			Drawing Number N/A		Sheet No.																																																																																					
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		(W)WA 20002512 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial <i>SCOTT R. ERICKSON</i> Sig. <i>SCOTT R. ERICKSON</i> Level <u>II</u>																																																																																					
		Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level		Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) <p style="text-align: center; font-size: 1.2em;">4-4-00</p>																																																																																			
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%;">SAT</th> <th style="width: 10%;">UN-SAT</th> <th style="width: 10%;">N/A</th> </tr> </thead> <tbody> <tr> <td>N/A WELDS & BASE MATERIAL VT-1</td> <td></td> <td></td> <td></td> </tr> <tr><td>Ground Blend Material</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Undercut</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Corrosion build-Up</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Gouges</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Evidence of Leakage</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Arc Strikes</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Cracks</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Other **</td><td>---</td><td>---</td><td>---</td></tr> </tbody> </table>					SAT	UN-SAT	N/A	N/A WELDS & BASE MATERIAL VT-1				Ground Blend Material	---	---	---	Undercut	---	---	---	Corrosion build-Up	---	---	---	Gouges	---	---	---	Evidence of Leakage	---	---	---	Arc Strikes	---	---	---	Cracks	---	---	---	Other **	---	---	---	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%;">SAT</th> <th style="width: 10%;">UN-SAT</th> <th style="width: 10%;">N/A</th> </tr> </thead> <tbody> <tr> <td>✓ BOLTS, STUDS, AND WASHERS VT-1</td> <td></td> <td></td> <td></td> </tr> <tr><td>Loose Members</td><td>---</td><td>---</td><td>✓</td></tr> <tr><td>Cracks</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Corrosion</td><td>✓</td><td>---</td><td>---</td></tr> <tr><td>Gouges</td><td>✓</td><td>---</td><td>---</td></tr> <tr><td>Thread Damage</td><td>✓</td><td>---</td><td>---</td></tr> <tr><td>Deformation</td><td>✓</td><td>---</td><td>---</td></tr> <tr><td>Protective Coating</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Evidence of Leakage</td><td>---</td><td>---</td><td>✓</td></tr> <tr><td>Other**</td><td>---</td><td>---</td><td>✓</td></tr> </tbody> </table>					SAT	UN-SAT	N/A	✓ BOLTS, STUDS, AND WASHERS VT-1				Loose Members	---	---	✓	Cracks	---	---	---	Corrosion	✓	---	---	Gouges	✓	---	---	Thread Damage	✓	---	---	Deformation	✓	---	---	Protective Coating	---	---	---	Evidence of Leakage	---	---	✓	Other**	---
	SAT	UN-SAT	N/A																																																																																								
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Other**	---	---	✓																																																																																								
Comments EXAMINED (6) STUDS & (6) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 4-4-00																																																																																											

SHARED

FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit <i>FARLEY / 1</i>	Line Number/Examination Area/Weld No. <i>Q1E21V091</i>			Drawing Number <i>N/A</i>			Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			
						<input checked="" type="radio"/> WO/WA <i>20002512</i> Procedure No. <i>FNP-0-NDE-100.23</i> Revision No. <i>3</i> Examiner/Initial <i>SCOTT R. ERICHSOHN</i> Level <i>II</i> Sig. <i>SCOTT R. ERICHSOHN</i> Examiner/Initial <i>N/A</i> Level <i>N/A</i> Sig. <i>N/A</i> Date (Month-Day-Year) <i>4-4-00</i>			
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge		<input type="checkbox"/> Level	
<i>N/A</i> SNUBBERS VT-3		SAT UN-SAT N/A		<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3		SAT UN-SAT N/A		<i>N/A</i> HANGER & SUPPORTS VT-3	
Loose Bolt or Pin Connections		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Pitting		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Setting:	
Shaft Seal		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Corrosion		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Hot <input type="checkbox"/> Cold <input type="checkbox"/>	
Fluid Leakage		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Erosion		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Misalignment	
Fluid Tubing Condition		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Foreign Material		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Damaged Members	
Shaft Cleanliness		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Gouged Parts		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Gouges	
Spherical Bearings		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Wear		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Arc Strikes	
Cotter & Clevis Pins Intact		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Evidence of Leakage		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Grind Marks	
Other**		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Other Cracks**		<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		Freedom of Movement	
* Provide details on unsat areas by use of supplemental data sheet.								Other**	
** Provide details on other areas examined.									
Comments <i>EXAMINED FLANGE & GASKET SEATING AREA. EXAMINED (6) STUDS & (6) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM SRE 4-4-00</i>									

SHARED

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package REF. 160. 17-1	Drawing Number D-351115 SH. 3
WO/WA No. W00600211		System Boundaries	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II	<p>THE 'B' TRAIN CONTAINMENT SPRAY PIPING WAS EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEET FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES.</p>	
Examiner <i>Mouffid Hill</i>	Level II		
Date (Month-Day-Year) 5-1-00			
SKETCH			
Examination (Per Para. 7.5)			
Sat <input type="checkbox"/> <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas ① Q1E13V012B - LIGHT DRY BUILD-UP ON STEM ② Q1E13V005B - LIGHT DRY BUILD-UP ON STEM			
GASKET ③ Q1E13P001B; LIGHT DRY BUILD-UP ON OUTBOARD SEAL; 1 DROP/MIN ACTIVE LEAK ON INBOARD SEAL.			
<small>SEE COMMENTS 5-1-00</small> THE REMAINDER OF THE SYSTEM WAS SAT.			
<small>MWO 20002653 WRITTEN TO CLEAN VALVE STEM AND ADJUST PACKING ON Q1E13V012B. ALSO</small>			
<small>REPAIR Q1E13P001B AS NECESSARY. BOTH ARE NOT CODE ITEMS, AND REINSPECTION IS NOT REQUIRED</small>			
<small>Charles W. Deon 5/16/00</small>			

SHARED

FIGURE 1
SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY/1		Line Number/Examination Area/Weld No. Q1E13 V005B			Drawing Number N/A		Sheet No.				
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		<input checked="" type="checkbox"/> W/VA 20003609 Procedure No. FNP-0-NDE-100.23 Revision No. 3				
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge		<input type="checkbox"/> Level	Examiner/Initial Sig. Scott R. Erickson Level III Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) 5-4-00			
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			SAT UN-SAT N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			SAT UN-SAT N/A	N/A HANGER & SUPPORTS VT-3 Setting: Hot ___ Cold ___ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**			SAT UN-SAT N/A

Comments **EXAMINED (1) STUD & (2) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS-SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 5-4-00**

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E13 V005B			Drawing Number N/A		Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote		<input checked="" type="checkbox"/> WO/WA 20003609 Procedure No. FNP-0-NDE-100.21 Revision No. 1			
		Examiner/Initial Sig. Scott R. Erickson		Level II		Examiner/Initial Sig. N/A		Level N/A	
		Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level		Date (Month-Day-Year) 5-4-00	
N/A WELDS & BASE MATERIAL VT-1				N/A BOLTS, STUDS, AND WASHERS VT-1					
		SAT	UN-SAT	N/A		SAT	UN-SAT	N/A	
Ground Blend Material		---	---	---	Loose Members	---	---	✓	
Undercut		---	---	---	Cracks	✓	---	---	
Corrosion build-Up		---	---	---	Corrosion	✓	---	---	
Gouges		---	---	---	Gouges	✓	---	---	
Evidence of Leakage		---	---	---	Thread Damage	✓	---	---	
Arc Strikes		---	---	---	Deformation	✓	---	---	
Cracks		---	---	---	Protective Coating	✓	---	---	
Other **		---	---	---	Evidence of Leakage	---	+	---	
					Other**	---	---	✓	

* Provide details on unsat areas by use of supplemental data sheet.

** Provide details on other areas examined

Comments **EXAMINED (1) STUD & (2) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS-SECTIONAL AREAS OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 5-4-00**

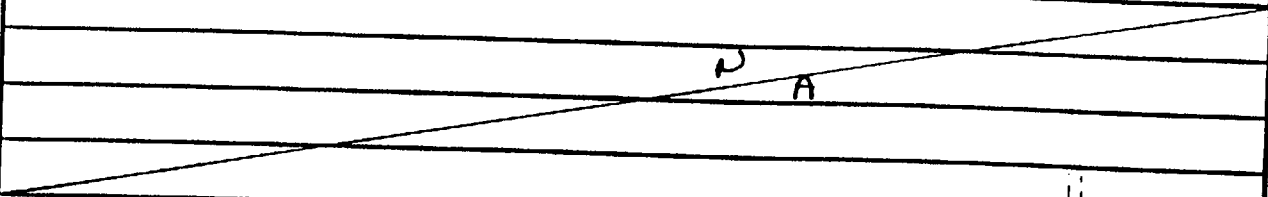
SHARED

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1		Data Package REF. 160.16-2	Drawing Number D-351115 SHT. 3
WO/WA No. W00600211		System Boundaries	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II	<p>THE 'A' TRAIN CONTAINMENT SPRAY PIPING WAS EXAMINED AT NORMAL OPERATING PRESSURE. SEE ATTACHED SHEET FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES.</p> 	
Examiner Paul Williams	Level II		
Date (Month-Day-Year) 5-3-00			
SKETCH			
Examination (Per Para. 7.5)			
<input type="checkbox"/> Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas ① N1E13FE958A SEE 5-17-00 ② N1E13FE938A - LIGHT DRY BUILD-UP AT BDC OF FLANGE. ③ Q1E13V036A HAS 1/2 DROP/MIN			
ACTIVE LEAK AT END CAP (THREADED CONNECTION). THE REMAINDER OF THE SYSTEM WAS SAT.			
Comments MWO 20003662 WRITTEN TO REPAIR END CAP ON Q1E13V036A AS APPROPRIATE TO STOP LEAKAGE. NOT A CODE ITEM, REINSPECTION NOT REQUIRED.			

Robert W Dean 5/15/00

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. N1E13FE958A	Drawing Number N/A	Sheet No.
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level
		(WOWA) 20003663 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial Sig. Scott R. Erickson Level II Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) <p style="text-align: right; font-size: 1.2em;">5-8-00</p>	
N/A WELDS & BASE MATERIAL VT-1			UN-SAT N/A
Ground Blend Material Undercut Corrosion build-Up Gouges Evidence of Leakage Arc Strikes Cracks Other **			SAT UN-SAT N/A _____ _____ _____ _____ _____ _____ _____ _____
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined			UN-SAT N/A
✓ BOLTS, STUDS, AND WASHERS VT-1			SAT UN-SAT N/A Loose Members _____ Cracks _____ Corrosion <input checked="" type="checkbox"/> Gouges <input checked="" type="checkbox"/> * Thread Damage <input checked="" type="checkbox"/> Deformation <input checked="" type="checkbox"/> Protective Coating _____ Evidence of Leakage _____ Other** _____
			* MINOR SURFACE CORROSION ON STUD

Comments **EXAMINED (1) STUD & (2) NUTS AFTER REMOVAL FROM FLANGE. NO VISIBLE WASTAGE OF CROSS-SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 5-8-00**

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11		Line Number/Examination Area/Weld No. N1E13FE 958A			Drawing Number N/A		Sheet No.			
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color		Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote			(WO)WA 20003663 Procedure No. FNP-0-NDE-100.23 Revision No. 3		
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper		<input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge	<input type="checkbox"/> Level	Examiner/Initial Sig. SLO R. Erickson Level II			
							Examiner/Initial Sig. N/A Level N/A			
							Date (Month-Day-Year) 5-8-00			
N/A SNUBBERS VT-3		SAT UN-SAT N/A	<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3		SAT UN-SAT N/A	N/A HANGER & SUPPORTS VT-3	SAT UN-SAT N/A	SAT UN-SAT N/A		
Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**		_____ _____ _____ _____ _____ _____ _____	Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> * <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> _____ _____	Setting: Hot _____ Cold _____ Misalignment Damaged Members Gouges Arc Strikes Grind Marks Freedom of Movement Other**	_____ _____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____		
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.			* MINOR SURFACE CORROSION ON STUD							
Comments EXAMINED (1) STUD & (2) NUTS AFTER REMOVAL FROM FLANGE. NO VISIBLE WASTAGE OF CROSS-SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 5-8-00										

SHARED

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package REF. 160. 16.3	Drawing Number 0-351115 SHT. 3
WO/WA No. W00600211		System Boundaries	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner Scott R. Erickson	Level II	<p>THE CONTAINMENT SPRAY PIPING WAS EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEET FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES.</p> <p style="text-align: center;">N/A</p>	
Examiner N/A	Level N/A		
Date (Month-Day-Year) 4-26-00			
SKETCH			
Examination (Per Para. 7.5)			
<input type="checkbox"/> Sat <input checked="" type="checkbox"/> *Unsat			
*Provide details on unsat areas Q1E13V00YA HAS LIGHT DRY BUILD-UP ON GASKET AND VALVE STEM. THE REMAINDER OF THE SYSTEM WAS SAT.			
Comments			

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY/1		Line Number/Examination Area/Weld No. Q1E13V004A			Drawing Number N/A		Sheet No.				
Photos ___ Yes ___ B&W <input checked="" type="checkbox"/> No ___ Color		Sketch ___ Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) ___ 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct ___ Video ___ Remote		<input checked="" type="checkbox"/> WO/WA 20003445 Procedure No. FNP-0-NDE-100.23 Revision No. 3				
Equipment <input checked="" type="checkbox"/> Mirror ___ Magnifier ___ CCTV		Lighting ___ Ambient <input checked="" type="checkbox"/> Flashlight ___ Droplight	Tools <input checked="" type="checkbox"/> Scale ___ Micrometer ___ Caliper		___ Depth Gauge ___ Comparator ___ Weld Gauge		___ Level	Examiner/Initial Sig. Scott R. Erickson Level III Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) 5-1-00			
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			SAT UN-SAT N/A ___			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			SAT UN-SAT N/A ___		
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.											
Comments EXAMINED (1) STUD & (2) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBL WASTAGE OF CROSS-SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 5-1-00											

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E13V004A	Drawing Number N/A	Sheet No.																																																																																								
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video																																																																																								
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input type="checkbox"/> Level																																																																																								
		(W)WA 20003445 Procedure No. FNP-0-NDE-100.21 Revision No. 1 Examiner/Initial Sig. Scott R. Erickson Level II Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) 5-1-00																																																																																									
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%;">SAT</th> <th style="width: 10%;">UN-SAT</th> <th style="width: 10%;">N/A</th> <th style="width: 50%;"></th> <th style="width: 10%;">SAT</th> <th style="width: 10%;">UN-SAT</th> <th style="width: 10%;">N/A</th> </tr> </thead> <tbody> <tr> <td>N/A WELDS & BASE MATERIAL VT-1</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ground Blend Material</td> <td>—</td> <td>—</td> <td>—</td> <td>Loose Members</td> <td>—</td> <td>—</td> <td>✓</td> </tr> <tr> <td>Undercut</td> <td>—</td> <td>—</td> <td>—</td> <td>Cracks</td> <td>—</td> <td>—</td> <td>✓</td> </tr> <tr> <td>Corrosion build-Up</td> <td>—</td> <td>—</td> <td>—</td> <td>Corrosion</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Gouges</td> <td>—</td> <td>—</td> <td>—</td> <td>Gouges</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Evidence of Leakage</td> <td>—</td> <td>—</td> <td>—</td> <td>Thread Damage</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Arc Strikes</td> <td>—</td> <td>—</td> <td>—</td> <td>Deformation</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Cracks</td> <td>—</td> <td>—</td> <td>—</td> <td>Protective Coating</td> <td>✓</td> <td>—</td> <td>—</td> </tr> <tr> <td>Other **</td> <td>—</td> <td>—</td> <td>—</td> <td>Evidence of Leakage</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Other**</td> <td>—</td> <td>—</td> <td>✓</td> </tr> </tbody> </table>					SAT	UN-SAT	N/A		SAT	UN-SAT	N/A	N/A WELDS & BASE MATERIAL VT-1				<input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1				Ground Blend Material	—	—	—	Loose Members	—	—	✓	Undercut	—	—	—	Cracks	—	—	✓	Corrosion build-Up	—	—	—	Corrosion	✓	—	—	Gouges	—	—	—	Gouges	✓	—	—	Evidence of Leakage	—	—	—	Thread Damage	✓	—	—	Arc Strikes	—	—	—	Deformation	✓	—	—	Cracks	—	—	—	Protective Coating	✓	—	—	Other **	—	—	—	Evidence of Leakage	—	—	—					Other**	—	—	✓
	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A																																																																																				
N/A WELDS & BASE MATERIAL VT-1				<input checked="" type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1																																																																																							
Ground Blend Material	—	—	—	Loose Members	—	—	✓																																																																																				
Undercut	—	—	—	Cracks	—	—	✓																																																																																				
Corrosion build-Up	—	—	—	Corrosion	✓	—	—																																																																																				
Gouges	—	—	—	Gouges	✓	—	—																																																																																				
Evidence of Leakage	—	—	—	Thread Damage	✓	—	—																																																																																				
Arc Strikes	—	—	—	Deformation	✓	—	—																																																																																				
Cracks	—	—	—	Protective Coating	✓	—	—																																																																																				
Other **	—	—	—	Evidence of Leakage	—	—	—																																																																																				
				Other**	—	—	✓																																																																																				
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined																																																																																											
Comments EXAMINED (1) STUD & (2) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SEE 5-1-00																																																																																											

02/28/00 07:55:50

SHARED

FNP-0-NDE-100.22

FIGURE 1

VISUAL EXAMINATION RECORD - VT2

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /1		Data Package REF. 160.17-3	Drawing Number D-351115 SHT.3
WO(WA) No. W00600211		System Boundaries	
Procedure No. FNP-0-NDE-100.22			
Revision No. 2			
Examiner <i>[Signature]</i>	Level II	<p>THE 'B' TRAIN CONTAINMENT SPRAY PIPING WAS EXAMINED IN SERVICE UNDER NORMAL OPERATING CONDITIONS. SEE ATTACHED SHEET FOR THE SYSTEM BOUNDARIES. THE EXAMINATION INCLUDED ALL VENTS, DRAINS, INSTRUMENT LINES AND TEST CONNECTIONS WITHIN THE SYSTEM BOUNDARIES.</p> <p style="text-align: center;">N A</p>	
Examiner N/A	Level N/A		
Date (Month-Day-Year) 4-26-00			
SKETCH			
Examination (Per Para. 7.5)			
<input type="checkbox"/> Sat <input checked="" type="checkbox"/> *Unsat			
<p>*Provide details on unsat areas ① Q1E13V040B - LIGHT DRY BUILD-UP ON END CAP ② Q1E13V004B - LIGHT DRY BUILD-UP ON GASKET (M-101 PREVIOUSLY WRITTEN). THE REMAINDER OF THE SYSTEM WAS SAT.</p>			
<p>Comments MWO 20003450 written to clean and repair Q1E13V040B AS APPROPRIATE. NOT A CODE ITEM, REINSPECTION NOT REQUIRED. <i>Chab. W. [Signature]</i></p>			

5/16/00

SHARED

FIGURE 1

SUPPORT EXAMINATION RECORD VT-3

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 11		Line Number/Examination Area/Weld No. Q1E13 V004B			Drawing Number N/A		Sheet No.				
Photos ___ Yes ___ B&W <input checked="" type="checkbox"/> No ___ Color		Sketch ___ Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) ___ 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct ___ Video ___ Remote		<input checked="" type="checkbox"/> WA 20003448 Procedure No. FNP-0-NDE-100.23 Revision No. 3 Examiner/Initial Sig. Scott R. Erickson Level II Examiner/Initial Sig. N/A Level N/A Date (Month-Day-Year) 5-1-00				
Equipment <input checked="" type="checkbox"/> Mirror ___ Magnifier ___ CCTV		Lighting ___ Ambient <input checked="" type="checkbox"/> Flashlight ___ Droplight	Tools <input checked="" type="checkbox"/> Scale ___ Micrometer ___ Caliper		___ Depth Gauge ___ Comparator ___ Weld Gauge		___ Level				
N/A SNUBBERS VT-3 Loose Bolt or Pin Connections Shaft Seal Fluid Leakage Fluid Tubing Condition Shaft Cleanliness Spherical Bearings Cotter & Clevis Pins Intact Other**			SAT UN-SAT N/A ___			<input checked="" type="checkbox"/> COMP. INTERNALS & MAT'L SURFACE VT-3 Pitting Corrosion Erosion Foreign Material Gouged Parts Wear Evidence of Leakage Other Cracks**			SAT UN-SAT N/A ___		
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined.											
Comments EXAMINED (1) STUD & (2) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 5-1-00											

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY / 1	Line Number/Examination Area/Weld No. Q1E13V004B			Drawing Number N/A	Sheet No.		
Photos <input type="checkbox"/> Yes <input type="checkbox"/> B&W <input checked="" type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)	Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Remote <input type="checkbox"/> Video				
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV		Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight	Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Level <input type="checkbox"/> Micrometer <input type="checkbox"/> Comparator <input type="checkbox"/> Caliper <input type="checkbox"/> Weld Gauge				
		Examiner/Initial Sig. Scott R. Spichon Level II		Examiner/Initial Sig. N/A Level N/A			
		Procedure No. FNP-0-NDE-100.21 Revision No. 1		Date (Month-Day-Year) 5-1-00			
N/A WELDS & BASE MATERIAL VT-1			BOLTS, STUDS, AND WASHERS VT-1				
	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A
Ground Blend Material	---	---	---	Loose Members	---	---	✓
Undercut	---	---	---	Cracks	✓	---	✓
Corrosion build-Up	---	---	---	Corrosion	✓	---	---
Gouges	---	---	---	Gouges	✓	---	---
Evidence of Leakage	---	---	---	Thread Damage	✓	---	---
Arc Strikes	---	---	---	Deformation	✓	---	---
Cracks	---	---	---	Protective Coating	✓	---	---
Other **	---	---	---	Evidence of Leakage	---	---	---
				Other**	---	---	✓

* Provide details on unsat areas by use of supplemental data sheet.
 ** Provide details on other areas examined

Comments **EXAMINED (1) STUD & (2) NUTS AFTER REMOVAL FROM VALVE BODY. NO VISIBLE WASTAGE OF CROSS SECTIONAL AREA OR THREADED SURFACES NOTED AT TIME OF EXAM. SRE 5-1-00**

UNIT 1

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 012 Date 3/29/00

PART I FINDINGS

Sketch Ref: ALA2-4500 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7
Item No. 2L1

Component Inspected: Pipe Long Seam Weld (Main Steam)

Description of Indication _____

During ultrasonic inspection of weld ALA2-4500-2L1 (Long Seam), a reflector was recorded per procedure with a peak amplitude of 58% DAC.

Prepared By Danny Cordes SNC L/III *DC* Date 03/29/2000

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ID Geometry

Bases: Evaluated as geometry per ASME Article III-4512.

Typical ultrasonic reflectors resulting from ID geometry (reference the ultrasonic data report S00F1U197).

Review of Previous Examinations: Data compares with 1988 examination report.

NDE Inspector Danny Cordes *DC* Certification Level III Date 03/29/00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Geometric reflector from piping geometry.

Action Required to Correct Indication: None Required

MSR Number: N/A

LER Yes No 10CFR 21 Yes No

Corrective Action Taken:
None Required

Corrective Action Initiated to Prevent Recurrence:
None Required

Prepared By *Samuel A. Hoffmann* Date 3-30-00

Approved By *DL Ford* Date 3/30/00

ANIT REVIEW: CGW 3/30/00

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA2-4500-2L1** Date **3/25/00** Sheet No. **S00F1U197** Page **1** of **2**
 Procedure/Rev./TCN **FNP-0-NDE-100.31 / 7 / N/A** Couplant/Batch No. **SONOTRACE 40 / 94243** Thermometer SN/Cal Due Date **38081 / 8/27/2000** Linearity Sheet No. **S00F1L003**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-24	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-898K	Serial No.	009KTR	Thickness	1.20"	1T	80	2.0	1.2	1T	80	2.1	1.3
Ax. dB		Size	.50	Cal. Temp.	67°	2T	40	4.0	2.3	2T	40	4.2	2.6
Ref.	28.6	Frequency/Mode	2.25 / S	Cal. In	0840	3T	20	6.0	3.5				
Scan	38.6	"A" Dimension	0.5"	Cal. Chk.	0950	4T	15	8.0	4.6				
Reject	OFF	Nominal Angle	45	Cal. Out	1110	Calibration Remarks:							
Frequency	2.25	Measured Angle	45	Ref. Blk. No.	796484	NONE							
Mode	P/E	Cable Type	RG174	Reflector	HOLE								
Damping	500 OHM	Cable Length	15'	Amplitude/Sweep	25%/1.2								

Comp. Temp.: **60°** °F Configuration: **PIPE LONG SEAM** Wo Location **WELD CL** Lo Location **INT WELD 3**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	-->1"	
2			●	1	58%	82.5	83.0	83.5	1.25			2.5			1.32	1.62	1.32	
5	●			N/A														
7	●			N/A														
8	●			N/A														

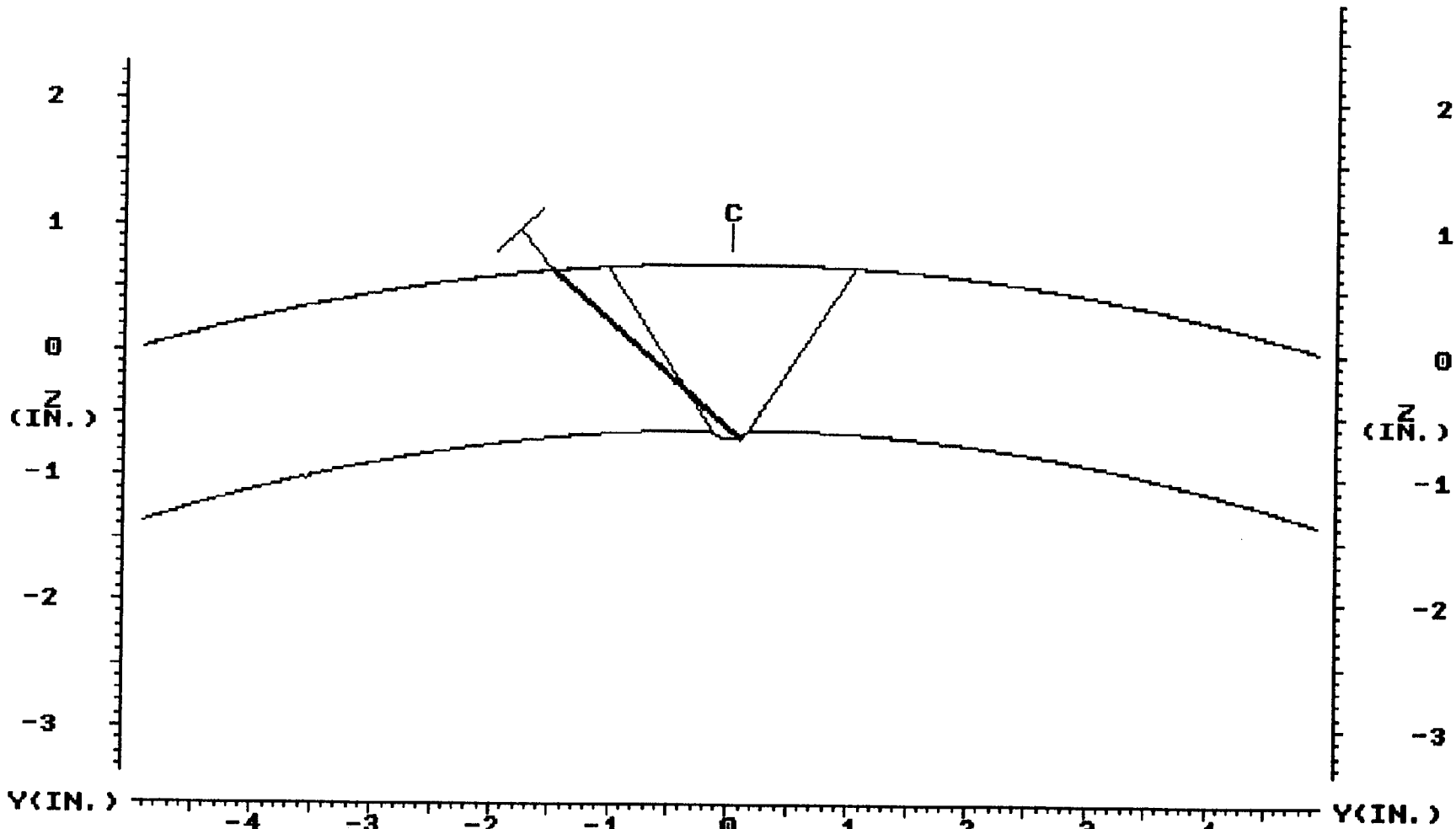
Examination/Limitation Remarks: **MS-R119 (WS) LIMITS SCAN AREA**

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
109.25"	2.1"	5 (L) 91.25"	2 (L) 91.25"	7 & 8 (W) 91.25"	5 - from 1.25" to NL	2 - from 1.25" to NL	From (5) NL to (2) NL					
Primary Examiner	Level		Assistant Examiner		Level		Non-Technical Review		Date			
JOSEPH D. FUNYAK	II		N/A		N/A		J. Eric Oysack		3-29-00			
SNC NDE Level II/III Review	Date		Percentage of Code Coverage		Date		ANII Review		Date			
Jay Cade L/TC	3-29-00		N/A %		3/29/00		C. Ward		3/29/00			

Figure 1

PIPE

PIPE



1	SET	1R16021.DAT	1R16021A.SCR		SET				
1.50	DEP	45 IN # 1 - ID GEOMETRY / SEE IER 1R16 012			DEP				
2.12	MP	COMPARES WITH 1988 DATA			MP				
41.90	TOF	DR CORDES L/III <i>Doc</i>			TOF				
	ARC	EXIT	MAKERAY/UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT	FAN
	GATE								GATE
0.050	STEP								STEP
	EXIT								EXIT
PLANT: FARLEY 1		3/29/00		CIRC. POS.: 83" ALONG LS					
SYSTEM: MAIN STEAM		9:16		ANALYST: DR CORDES L/III					
COMPONENT: ALA2-4500-2L1				CAL. SHEET: S00F10197					

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 013 Date 4/20/00

PART I FINDINGS

Sketch Ref: ALA1-4200 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.41 Rev. 2
Item No. 5R TCN 2A

Component Inspected: RC LOOP B SAFE END TO ELBOW

Description of Indication _____

During the preservice ultrasonic inspection of weld ALA1-4200-5R (Safe end to Elbow), a reflector was recorded. The indication was evaluated as an ID surface geometry.

Prepared By J. Eric Aycock SNC L/III *J. Eric Aycock SNC L/III* Date 04/20/00

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ASME Code acceptable geometric indication

Bases: Indication is from ID geometry caused by grinding of the ID surface.* A surface creeping wave transducer was used to scan the weld from the I.D. surface. No indication was observed.

ID surface profile taken in area of concern, and the indication plots as a geometric reflector.

The ID surface had a PT exam performed per Section III, no indications.

Conservatively, the indication was evaluated to Table IWB-3514-2, as a surface planar flaw with a depth of .1", length of .15", t=3.0". a/l=.50, a/t=3.3% Code allowable for a PSI surface indication is 8.9%.

Therefore the indication would be acceptable.

** Signal was dampened from the I.D. surface. Rev 4-21-00*
Review of Previous Examinations: _____

No previous examination. This was the preservice examination during the SGRP.

NDE Inspector Gary Lofthus *Gary Lofthus* Certification Level III Date 04/20/00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: ID surface geometry due to grinding.

Action Required to Correct Indication: None Required

MSR Number: N/A

LER Yes No X

10CFR 21

Yes No X

Corrective Action Taken:

None Required

Corrective Action Initiated to Prevent Recurrence:

None Required

Prepared By *Donald L. Hoff*

Date 4-20-00

Approved By *KC/anh*

Date 4/21/00

ANII REVIEW: C. G. ... 4/21/00

SHARED

FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.41
Southern Nuclear Operating Company

Unit 1 Sketch/Component No. ALA1-4200-5R Date 4/20/00 Sheet No. S00F1U267
Procedure/Rev./TCN FNP-0-NDE-100.41 / 2 / 2A Couplant/Batch No. Ultragel II / 00125 Thermometer SN/Cal Due Date 38193 / 8/27/2000 Linearity Sheet No. S00F1L001
Page 1 of 2

Table with columns: Instrument, Search Unit, Calibration Block, Axial Scan Calibration, Circ. Scan Calibration. Includes fields for STAVELEY, KBA, ALA/APR-33, 136-896K, D20267/D20268, 2.45", 2 (1.0"), 80, 1130, N/A, 1350, 1.0 MHZ, DUAL, 500 Ohms, 15".

Table with columns: Scan Dir., Results (NI, NRI, RI), Ind. No., % DAC, Length (L1, Lmax, L2), Reference Measurement (W1, Wmax, W2), Sweep Position (S1, Smax, S2), Thickness (1" <--, C/L, -- >1"), Notes. Includes handwritten note: SEE IER-13 qea 4-20-00

ELBOW qea 4-20-00
Examination/Limitation Remarks: EXAMINED FROM SAFE-END SIDE. INDICATION CAN BE SEEN AT LOW AMPITUDE AT VARIOUS LOCATIONS AROUND THE WELD.

Table with columns: Total Length of Weld, Crown Width, Total Length of Weld Examined, Extent of Perpendicular Scans (W), Extent of Parallel Scans (L), Primary Examiner (JOHN W. BELL), Assistant Examiner (GEORGE A. MORINI), Non-Technical Review (Terry Styzen), Date (4-20-00), Percentage of Code Coverage (*73.8%), Date (4/21/00).

Figure 1

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 014 Date 5/07/00

PART I FINDINGS

Sketch Ref: ALA2-4150 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7
Item No. 21R
Component Inspected: Elbow to Reducer
Description of Indication _____

During ultrasonic inspection of weld ALA2-4150 -21R (elbow to reducer), 4 reflectors were recorded per procedure with a peak amplitude of 65% DAC.

Prepared By Gary Lofthus SNC L/III *Gal* Date 05/07/2000

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ID Root Geometry

Bases: Evaluated as geometry per ASME Article III-4512.

Typical ultrasonic reflectors resulting from the root of the weld (reference the ultrasonic data report S00F1U274). Can be seen from both sides of the weld. Review of the RT film shows a root that is intermittent, consistent with the Ultrasonic data.

Review of Previous Examinations: Preservice Examination during SGRP 1R16 outage. No previous Data.

NDE Inspector Gary Lofthus *Gal* Certification Level III Date 05/07/00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Geometric reflector from root of the weld.

Action Required to Correct Indication: None Required

MSR Number: N/A

LER Yes _____ No X 10CFR 21 Yes _____ No X

Corrective Action Taken:
None Required

Corrective Action Initiated to Prevent Recurrence:
None Required

Prepared By Mary A. Piffers Date 5-7-00

Approved By David Hartline Date 5/10/00

ANTI REVIEW: Cg Ward 5/12/00

FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

SHARED

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA2-4150-21R** Date **5/6/00** Sheet No. **S00F1U274** Page **1** of **3**
 Procedure/Rev./TCN **FNP-0-NDE-100.31 / 7 / N/A** Couplant/Batch No. **ULTRAGEL II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L019**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	PANAMETRICS	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-25	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	91060212	Serial No.	41016	Thickness	.750"	1T	80	3.0	.7	1T	80	4.0	.8
Ax. dB		Size	.50	Cal. Temp.	75	2T	45	6.0	1.45	2T	60	8.0	1.6
Ref.	29	Frequency/Mode	2.25 / S	Cal. In	2000	3T	30	9.0	2.2				
Scan	35	"A" Dimension	.35	Cal. Chk.	2137	Calibration Remarks:							
Reject	0	Nominal Angle	45	Cal. Out	2338	<i>0° MSEB 4mHz Serial No. 00605 used for Lamination Scan.</i>							
Frequency	2.25	Measured Angle	45	Ref. Blk. No.	86-4333								
Mode	PE	Cable Type	RG-174	Reflector	SDH@35 db								
Damping	50	Cable Length	6'	Amplitude/Sweep	36%/2.7 div.								

Comp. Temp.: **83** °F Configuration: **ELBOW TO REDUCER** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	--> 1"	
5			●	1	65	42.5"	4.3"	6.0"	1.0"				1.37"					Intermittent 360
2			●	2	50	37"	41.2"	43.5"	.75"				1.37"					
2			●	3	35	29"	31"	32"	.75"				1.37"					
2			●	4	50	24.75"	25"	25.25"	.75"				1.37"					

Examination/Limitation Remarks: **LAM SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAMINATION. LAM SCAN AMPLITUDE MAINTAIN 50 TO 80 PERCENT OF FULL SCREEN HEIGHT.**

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)			Extent of Parallel Scans (L)		
44"	1.1"	5 (L) 44"	2 (L) 44"	7 & 8 (W) 44"	5 - from NL to NL	2 - from NL to NL	From (5) NL to (2) NL			
Primary Examiner	Assistant Examiner		Level	Non-Technical Review		Date				
GARY A. LOFTHUS	J. ERIC AYCOCK		III	<i>J. Eric Aycock</i>		5-7-00	<i>Gary A. Lofthus</i>		5-7-00	
SNC NDE Level II/III Review	Date	Percentage of Code Coverage		ANII Review		Date				
<i>J. Eric Aycock</i>	5-7-00	100 %		<i>Gary A. Lofthus</i>		5/12/00				

Figure 1

FARLEY NUCLEAR PLANT
Ultrasonic Examination Continuation Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit: 1 Sketch/Component No.: ALA2-4150-21R Date: 5/6/00 Sheet No.: S00F1U274 Page 2 of 3

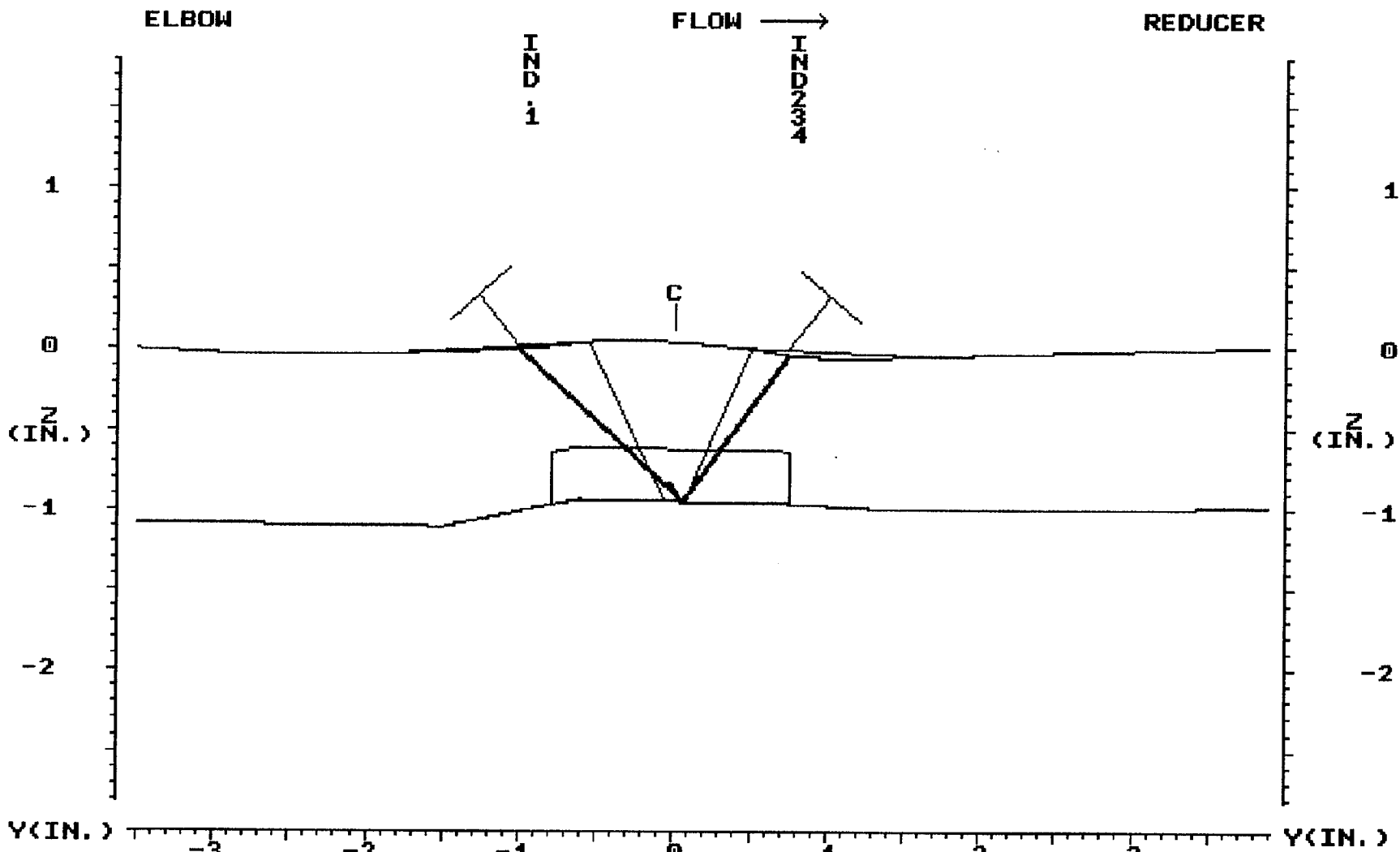
Procedure/Rev./TCN: FNP-0-NDE-100.31 / 7 / N/A Appendix III Exams: D1 = N/A D2 = N/A Measured Angle = 45 ° Configuration: ELBOW TO REDUCER

Scan Dir.	Crown Width	Results			Ref No	% DAC	Length		Reference Measurement			Sweep Position		Thickness		Notes:
		NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	
7	●			N/A												Results: NRI Bal Results: NRI 5-6-00
8	●			N/A												

Examination/Limitation Remarks: LAM SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAMINATION. LAM SCAN AMPLITUDE MAINTAIN 50 TO 80 PERCENT OF FULL SCREEN HEIGHT.

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)			Extent of Parallel Scans (L)		
44"	1.1"	5 (L) 44"	2 (L) 44"	7 & 8 (W) 44"	5 - from NL to NL	2 - from NL to NL	From (5) NL to (2) NL			
Primary Examiner GARY A. LOFTHUS	Level III	Assistant Examiner J. ERIC AYCOCK			Level III	Non-Technical Review <i>Gary A. Lofthus</i>			Date 5-7-00	
SNC NDE Level II/III Review <i>J. Eric Aycock JTH</i>		Date 5-16-00	Percentage of Code Coverage 100 %			ANII Review <i>[Signature]</i>			Date 5/16/00	

Figure 1

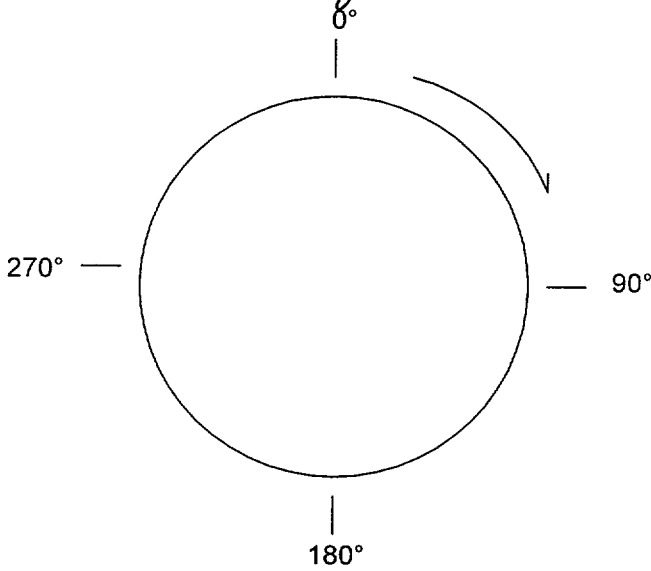


1	SET	1R1621R.DAT					IND.2	SET
0.97	DEP						0.97	DEP
1.37	MP	INDICATION 1,2,3,4 ALL EVALUATED AS ID ROOT GEOMETRY					1.37	MP
29.89	TOF						29.89	TOF
	ARC							ARC
	GATE							GATE
0.010	STEP	<i>QFA 5-7-00</i>					0.010	STEP
	EXIT	MAKERAY	UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT
PLANT: PLANT FARLEY UNIT 1		5/6/00		CIRC. POS.: 90 DEGREES				
SYSTEM: FEEDWATER SG 'A'		23:36		ANALYST: J. ERIC AYCOCK L/III				
COMPONENT: ALA2-4150-21R				CAL. SHEET: 500F10274				

Ultrasonic Thickness and Contour Examination Record

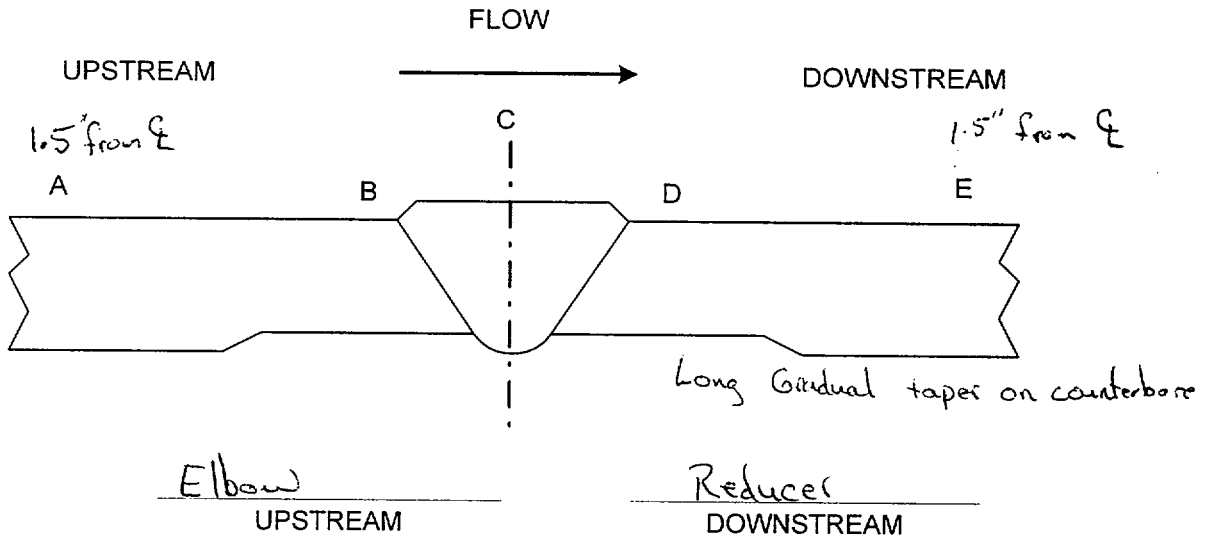
Southern Nuclear Operating Company

Unit 1	Weld Number ALA2-4150-21R	Sheet No. S00F1U280 1d2	Date 5/6/00
J/Drawing Number ALA2-4150	Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer PANAMETRICS	
Material Type <input checked="" type="checkbox"/> C/S <input type="checkbox"/> S/S Other	Calibration Standard/ Serial No. CS STEP / 86-4257	Model Number EPOCH II	Serial Number 91060212
Examiner GARY A. LOFTHUS <i>Gal</i>	SNT Level III	Transducer Manufacturer KBA	Type MSEB
Examiner J. ERIC AYCOCK <i>J. Eric Aycock</i>	SNT Level III	Serial Number 06605	Frequency 4 MHz



Location	0°	90°	180°	270°
A	0.942"	1.013"	1.042"	0.964"
B	0.947"	0.940"	1.032"	0.956"
C	1.042"	0.964"	0.973"	0.952"
D	0.981"	0.964"	0.960"	0.986"
E	1.088"	1.083"	1.117"	1.189"

(thicker →)



REMARKS:

See Sheet 2 for Weld Profiles.

Level II/III Review <i>J. Eric Aycock</i>	Level III	Date 5-7-00	Non-Technical Review <i>Gary A. Lofthus</i>	Date 5-7-00
--	---------------------	-----------------------	--	-----------------------

ALAZ-4150-21R

0°

c/L

|

RED

ELBOW

RED.

c/L

|

ELBOW

70°

RED.

c/L

|

ELBOW

100°

RED.

c/L

|

ELBOW

270°

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 015 Date 5/07/00

PART I FINDINGS

Sketch Ref: ALA2-4150 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7

Item No. 22R

Component Inspected: Reducer to Nozzle

Description of Indication _____

During ultrasonic inspection of weld ALA2-4150-22R (reducer to nozzle), 2 reflectors were recorded per procedure with a peak amplitude of 35% DAC.

Prepared By Gary Lofthus SNC L/III *Gal*

Date 05/07/2000

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: Ind. 1 - Code Acceptable Slag. Ind. 2 - ID Root Geometry

Bases: Ind. 1 evaluated as code acceptable slag confirmed by review of RT film. The indication was evaluated to ASME Section XI Table IWB-3514-1, acceptable subsurface indication. Actual a/t=2.8%, allowable a/t=10.15%, see attached evaluation worksheet.

Ind. 2 was evaluated as geometry per ASME Article III-4512. Typical ultrasonic reflectors resulting from the root of the weld (reference the ultrasonic data report S00F1U276).

Review of the RT film shows a root that is intermittent, consistent with the Ultrasonic data.

Review of Previous Examinations: Preservice Examination during SGRP 1R16 outage. No previous Data.

NDE Inspector

Gary Lofthus *Gal*

Certification Level

III

Date

05/07/00

FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA2-4150-22R	Date 5/6/00	Sheet No. S00F1U276
Procedure/Rev./TCN FNP-0-NDE-100.31 / 7 / N/A	Couplant/Batch No. ULTRAGEL II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000	Linearity Sheet No. S00F1L019

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	PANAMETRICS	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-51	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	91060212	Serial No.	41016	Thickness	.79"	1T	80	3.0	0.8	1T	80	4.0	0.8
Ax. dB	27.1	Circ. dB	32.1	Cal. Temp.	75	2T	65	6.0	1.5	2T	60	8.0	1.6
Ref.	33.1	Size	.50	Cal. In	1945	3T	40	9.0	2.3				
Scan	0	Frequency/Mode	2.25 / S	Cal. Chk.	2220								
Reject	0	"A" Dimension	.35	Cal. Out	2336								
Frequency	2.25	Nominal Angle	45	Cal. Out	2336								
Mode	PE	Measured Angle	45	Ref. Blk. No.	86-4333	Calibration Remarks:							
Damping	HI/400	Cable Type	RG-174	Reflector	SDH@35 db	Ax. Cal. stored in location A0.							
		Cable Length	6'	Amplitude/Sweep	36%/2.8	Circ. Cal. stored in location A1.							
						0 deg. Cal. stored in location B0.							
						<i>0° MSEB Serial No. 06605 used for lamination scan.</i>							

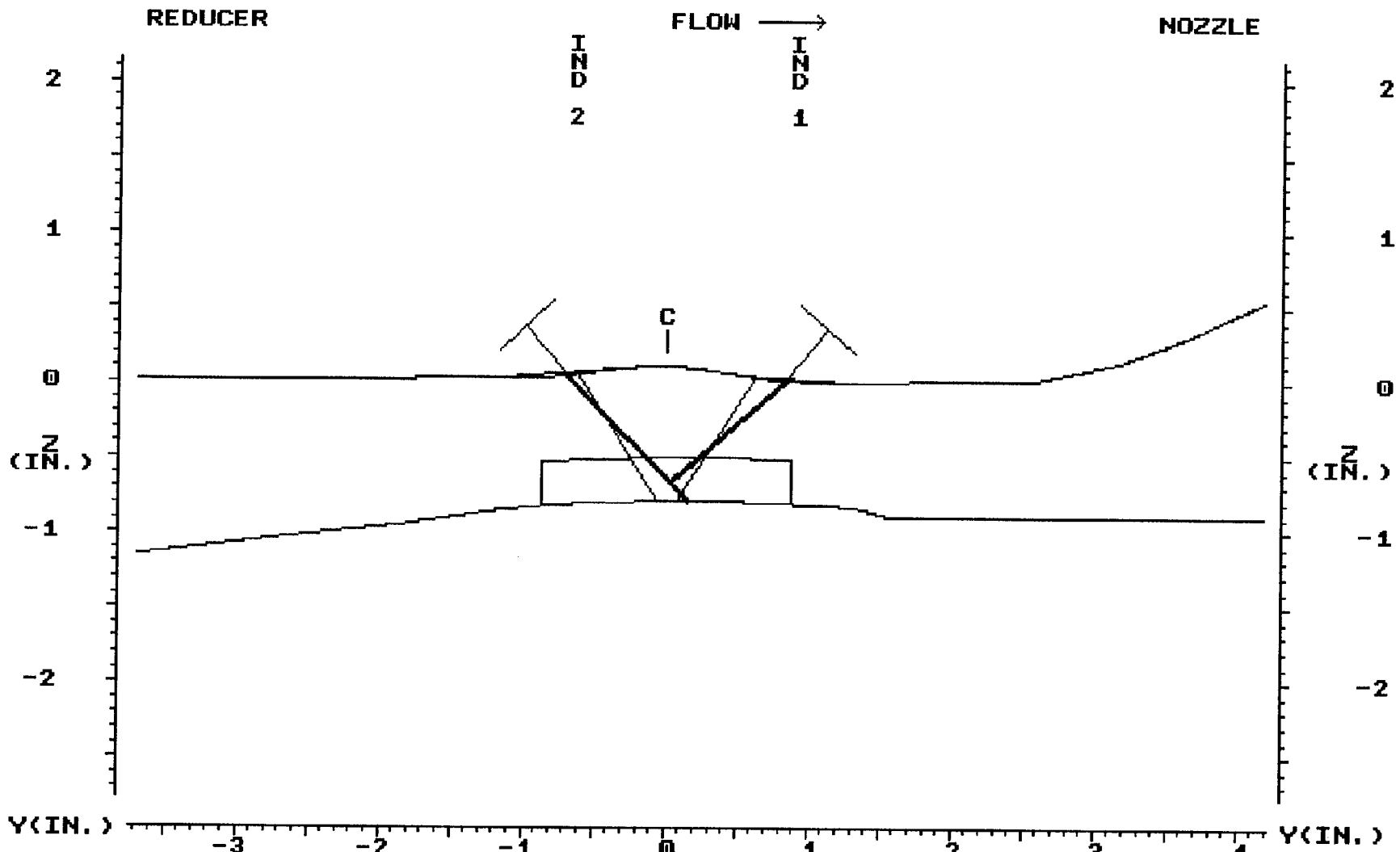
Comp. Temp.: 83 °F Configuration: REDUCER TO NOZZLE Wo Location V-STAMP Lo Location TDC

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	-- >1"	
2			●	1	25	31.4"	31.5"	31.6"	*	.85"	*	*	1.1"	*				*Spot ind. Butted at toe
5			●	2	35	2.9"	13"	17"	.55"	.7"	.9"	1.1"	1.21"	1.32"				Riding on toe / intermittent
7		●	○	N/A														Low level root/ verified by RT 15% DAC
8		●	○	N/A														

Examination/Limitation Remarks: LAM SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAMINATION. LAM SCAN AMPLITUDE MAINTAIN 50 TO 80 PERCENT OF FULL SCREEN HEIGHT.

Total Length of Weld	Crown Width	Total Length of Weld Examined			Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)				
50.25"	1.25"	5 (L) 50.25	2 (L) 50.25	7 & 8 (W) 50.25	5 - from	NL	to	NL	2 - from	NL	to	NL	From (5) NL to (2) NL
Primary Examiner	Level	Assistant Examiner			Level	Non-Technical Review				Date			
GARY A. LOFTHUS	III	J. ERIC AYCOCK			III	<i>J. Eric Aycock</i>				5-7-00			
SNC NDE Level II/III Review	Date	Percentage of Code Coverage			ANII Review				Date				
<i>Gary Lofthus</i>	5-7-00	100 %			<i>J. Eric Aycock</i>				5/12/00				

Figure 1



IND 1		1R16022R.DAT				IND 2		SET	
0.78		INDICATION 1 - CODE ACCEPTABLE SLAG CONFIRMED ON RT FILM. SEE ATTACHED SHEET FOR TABLE CALCULATION.				0.86		DEP	
1.10						1.21		MP	
25.55						27.37		TOF	
		INDICATION 2 - ROOT GEOMETRY						ARC	
0.025						0.010		GATE	
EXIT		MAKERAY		UTILITY		LEFT		RIGHT	
PLANT: PLANT FARLEY UNIT 1		5/6/00		CIRC. POS.: 80 DEGREES		ANALYST: J. ERIC AYCOCK L/III			
SYSTEM: FEEDWATER 'A'		0:08		CAL. SHEET: SOOF 10276					
COMPONENT: ALA2-4150-22R									

INDICATION EVALUATION WORKSHEET TABLE IWB-3514-1 (CLASS 1 PRESERVICE INSPECTION CARBON S

WELD NUMBER ALA2-4150-22R

DATE 05/07/00

SHEET NO. S00F1U276

ANGLE 45 SHEAR

Page 3 of 3

SURFACE CONNECTED FLAW=1; SUBSURFACE=0 0

Y=S/a, if S is less than .4d, then it is a surface flaw

IF S < .4d THE FLAW INDICATION IS CLASSIFIED AS A SURFACE INDI

IF Y > 1.0, USE Y=1.0

INDICATION NUMBER	LENGTH L	THICKNESS T excluding clad	NEAR DEPTH	FAR DEPTH	Surface a value	Subsurface a value	(LIGAMENT) s	a/l	a/t	Y(S/a)
1	0.20	0.89	0.71	0.76	0.05	0.03	0.13	0.13	2.81	5.20

1.00

CLASS 1 TABLE FOR ALLOWABLE a/t%

ASPECT RATIO	SURFACE	SUBSURFACE	*Y=
0.000	6.812	8.528	
0.050	7.312	8.844	
0.100	8.028	9.644	
0.125	8.478	10.152	10.15
0.150	8.928	10.660	
0.200	9.852	11.752	
0.250	9.852	11.500	
0.300	9.852	11.500	
0.350	9.852	11.500	
0.400	9.852	11.500	
0.450	9.852	11.500	
0.500	9.852	11.500	

ACCEPTABLE

SUBSURFACE DEFECT

SURFACE TABLE

IF not exact t	IF exact t
6.812	0.000
7.312	0.000
8.028	0.000
8.928	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000
9.852	0.000

SUBSURFACE TABLE

IF not exact t	IF exact t
8.528	0.000
8.844	0.000
9.644	0.000
10.660	0.000
11.752	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000
11.500	0.000

PRESERVICE TABLE IWB-3514-1

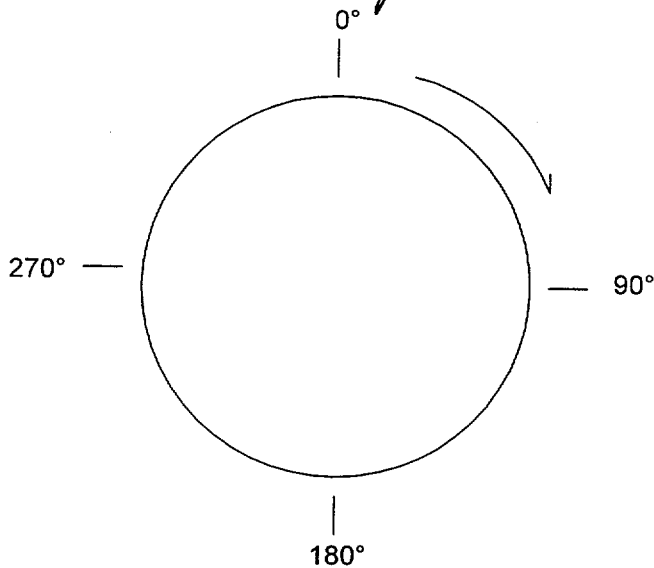
(ALLOWABLE a/t % VALUES)

Aspect Ratio	INTERPOLATED THICKNESS		INTERPOLATED THICKNESS		INTERPOLATED THICKNESS		INTERPOLATED THICKNESS	
	<= 0.312"	0.89	1"	not used	2"	not used	3"	not used
a/l	SURFACE		SURFACE		SURFACE		SURFACE	
0	7.4	6.81	6.7	7.70	5.7	7.70	4.7	7.70
0.05	7.9	7.31	7.2	8.20	6.2	8.60	5.0	8.00
0.10	8.7	8.03	7.9	9.00	6.8	9.40	5.5	9.10
0.15	9.6	8.93	8.8	10.10	7.5	10.30	6.1	10.00
0.20	9.6	9.85	9.9	11.40	8.4	11.40	6.9	11.40
0.25	9.6	9.85	9.9	10.30	9.5	12.90	7.8	12.90
0.30	9.6	9.85	9.9	10.30	9.5	10.90	8.8	14.50
0.35	9.6	9.85	9.9	10.30	9.5	10.90	8.8	14.50
0.40	9.6	9.85	9.9	10.30	9.5	10.90	8.8	14.50
0.45	9.6	9.85	9.9	10.30	9.5	10.90	8.8	14.50
0.50	9.6	9.85	9.9	10.30	9.5	10.90	8.8	14.50
	SUBSURFACE (ALL Y)		SUBSURFACE (ALL Y)		SUBSURFACE (ALL Y)		SUBSURFACE (ALL Y)	
0	9.2	8.53	8.4	9.60	7.2	10.00	5.8	9.40
0.05	9.6	8.84	8.7	9.90	7.5	10.30	6.1	10.00
0.10	10.4	9.64	9.5	10.90	8.1	11.10	6.6	10.80
0.15	11.5	10.66	10.5	12.00	9.0	12.40	7.3	11.80
0.20	11.5	11.75	11.8	13.50	10.1	13.90	8.2	13.30
0.25	11.5	11.50	11.5	11.60	11.4	15.60	9.3	15.30
0.30	11.5	11.50	11.5	11.60	11.4	13.20	10.5	17.40
0.35	11.5	11.50	11.5	11.60	11.4	10.60	11.8	19.30
0.40	11.5	11.50	11.5	11.60	11.4	10.60	11.8	16.00
0.45	11.5	11.50	11.5	11.60	11.4	10.60	11.8	12.40
0.50	11.5	11.50	11.5	11.60	11.4	10.60	11.8	12.40

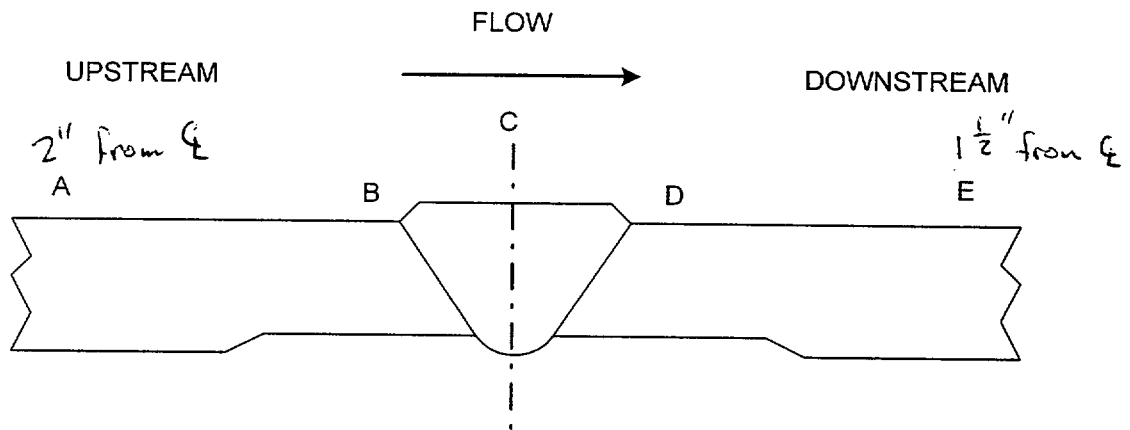
Ultrasonic Thickness and Contour Examination Record

Southern Nuclear Operating Company

Unit 1	Weld Number ALA2-4150-22R	Sheet No. S00F1U281	Date 5/6/00
J/Drawing Number ALA2-4150	Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer PANAMETRICS	
Material Type <input checked="" type="checkbox"/> C/S <input type="checkbox"/> S/S Other	Calibration Standard/ Serial No. CS STEP / 86-4257	Model Number EPOCH II	Serial Number 91060212
Examiner GARY A. LOFTHUS	SNT Level III	Transducer Manufacturer KBA	Type MSEB
Examiner J. ERIC AYCOCK	SNT Level III	Serial Number 06605	Frequency 4 MHz



Location	0°	90°	180°	270°
A	1.134"	1.170"	1.198"	1.153"
B	0.895"	0.846"	0.952"	0.973"
C	0.902"	0.881"	0.852"	0.902"
D	0.837"	0.837"	0.822"	0.846"
E	0.865"	0.902"	0.862"	0.865"



COUNTERBORE

Reducer
UPSTREAM

Nozzle
DOWNSTREAM

REMARKS:

QEA 5-7-00
None See Page 2 for weld profiles.

Level III Review <i>Mary A. Loftus</i>	Level III	Date 5-7-00	Non-Technical Review <i>J. Eric Aycock</i>	Date 5-7-00
---	---------------------	-----------------------	---	-----------------------

0°

RED

CL

N022

90°

RED

CL

N022

180° RED

CL

N02

270° RED

CL

N022

UNIT 1

FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 016 Date 5/11/00

PART I FINDINGS

Sketch Ref: ALA2-4350 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7

Item No. 24R

Component Inspected: Reducer to Nozzle

Description of Indication _____

During ultrasonic inspection of weld ALA2-4350-24R (reducer to nozzle), 4 reflectors were recorded per procedure with a peak amplitude of 25% DAC.

Prepared By J. Eric Aycock SNC L/III *J. Eric Aycock* Date 05/11/2000

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ID Root Geometry

Bases: _____

Indications 1-4 were evaluated as geometry per ASME Article III-4512. Typical ultrasonic reflectors resulting from the root of the weld (reference the ultrasonic data report S00F1U287).

Review of the RT film shows a root that is pushed through (convexity) in these areas, consistent with the Ultrasonic data.

Review of Previous Examinations: Preservice Examination during SGRP 1R16 outage. No previous Data.

NDE Inspector J. Eric Aycock *J. Eric Aycock* Certification Level III Date 05/11/00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Indications are geometric reflectors from the root of the weld.

Action Required to Correct Indication: None Required

MSR Number: N/A

LER Yes No 10CFR 21 Yes No

Corrective Action Taken: None Required

Corrective Action Initiated to Prevent Recurrence: None Required

Prepared By J. Eric Aycock A-III Date 5-11-00

Approved By David Hartline Date 5/12/00
with review of W. Ward 5/12/00

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA2-4350-24R** Date **5/11/00** Sheet No. **S00F1U287** Page **1** of **2**

Procedure/Rev./TCN **FNP-0-NDE-100.31 / 7 / N/A** Couplant/Batch No. **ULTRAGEL II / 00125** Thermometer SN/Cal Due Date **38193 / 8/27/2000** Linearity Sheet No. **S00F1L019**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	PANAMETRICS	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-51	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	91060212	Serial No.	41016	Thickness	.79	1T	80	3.0	.7	1T	80	4.0	.8
Ax. dB	27.1	Circ. dB	33.3	Cal. Temp.	75	2T	45	6.0	1.45	2T	60	8.0	1.6
Ref.	33.1	Size	.50	Cal. In	09:10 hrs	3T	30	9.0	2.2				
Scan	33.1	Frequency/Mode	2.25 / S	Cal. Chk.	N/A	Calibration Remarks:							
Reject	0	"A" Dimension	.35	Cal. Out	12:30 hrs	06605 MSEB 0 deg. was used to perform lamination scan.							
Frequency	2.25	Nominal Angle	45	Cal. Blk. No.	N/A								
Mode	PE	Measured Angle	45	Reflector	N/A								
Damping	HI / 400	Cable Type	RG-174	Amplitude/Sweep	N/A								
		Cable Length	6'										

Comp. Temp.: **84** °F Configuration: **REDUCER TO NOZZLE** Wo Location **V- Stamp** Lo Location **TDC**

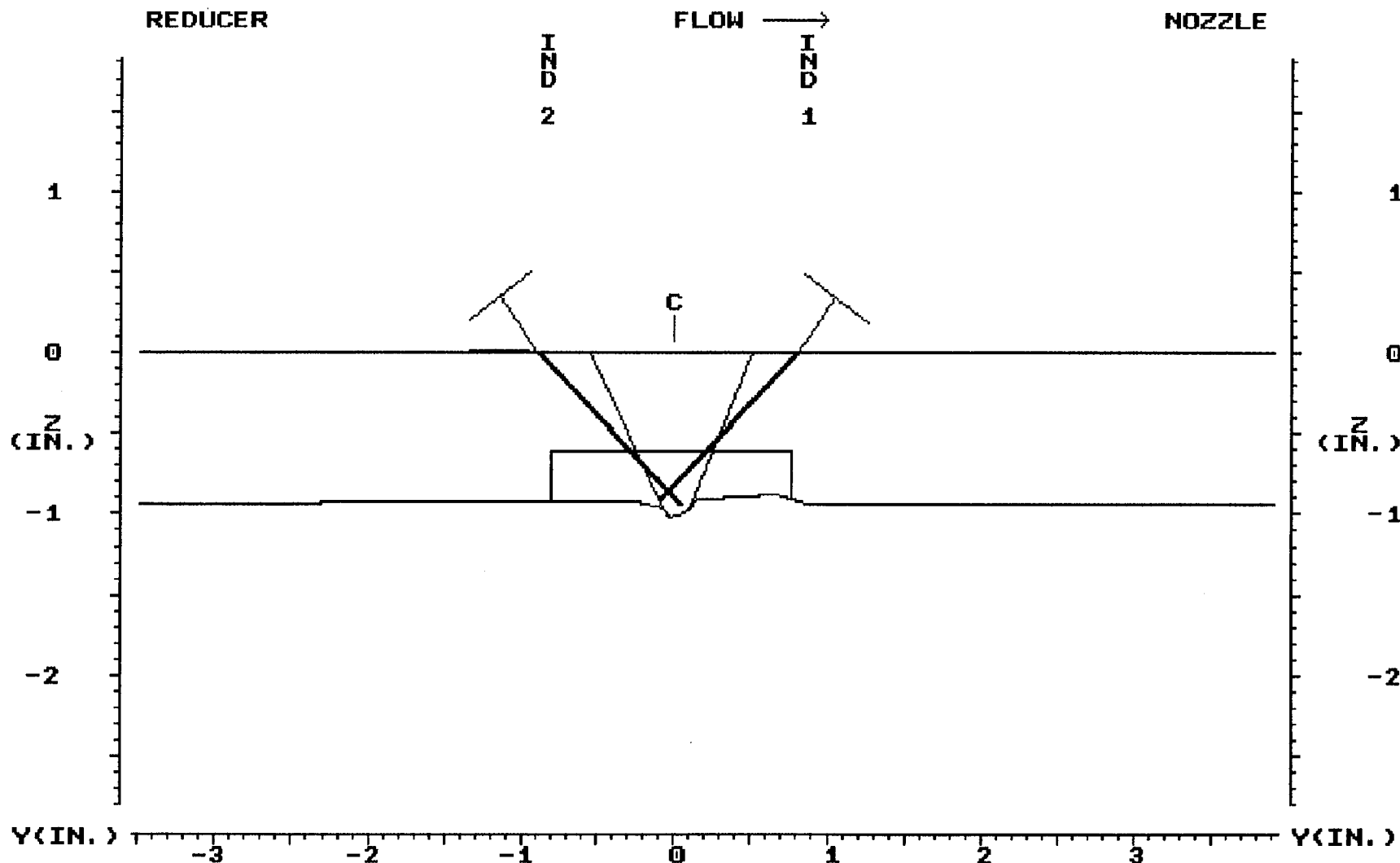
Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	-- >1"	
2			●	1	17	*	41.65	*	*	.8	*	1.28	1.04	0.850	0.937	* - SPOT		
5			●	2	10	42	42.05	42.1	*	.9	*	1.33	1.04	0.850	0.937			
7			●	3	25	*	40.75	*	*	0	*	1.68	1.04	0.850	0.937			
8			●	4	20	*	42.75	*	*	0	*	1.49	1.04	0.850	0.937			

Examination/Limitation Remarks: **LAMINATION SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAM; MAINTAINED AMPLITUDE OF 50 TO 80 PERCENT FSH.**

LOW LEVEL (LESS THAN 20%) ROOT SIGNALS SEEN INTERMITTENTLY.

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)			
50.25	1.2"	5 (L) NL	2 (L) NL	7 & 8 (W) NL	5 - from NL to NL	2 - from NL to NL	From (5) NL to (2) NL						
Primary Examiner	Level	Assistant Examiner				Level	Non-Technical Review				Date		
PAUL DiVALERIO <i>Paul DiValerio</i>	II	SCOTT R. ERICKSON <i>Scott R. Erickson</i>				II	<i>Mary H. Griffin</i>				5-12-00		
SNC NDE Level II/III Review	Date	Percentage of Code Coverage				ANII Review				Date			
<i>J. Eric Orrock L-III</i>	5-12-00	100 %				<i>Edward</i>				5/12/00			

Figure 1

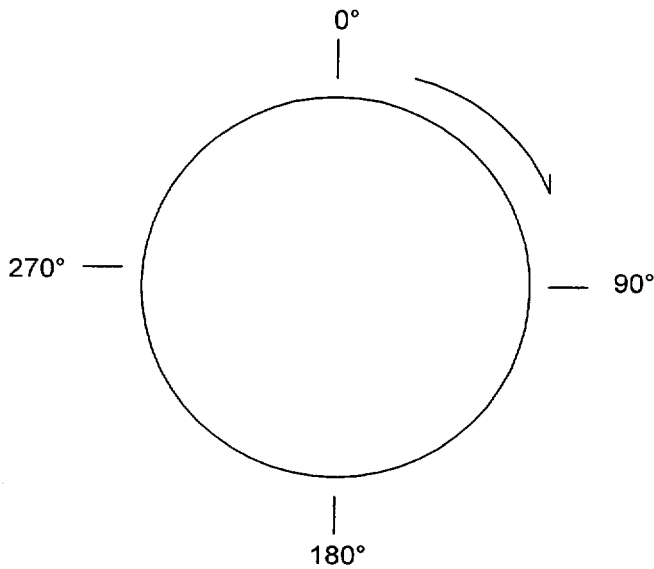


IND 1		1R16024R.DAT		IND 2	
0.90	SET	INDICATION 1,2,3,4 ALL ARE REFLECTED FROM ROOT		0.94	SET
1.28	DEP	GEOMETRY (ROOT CONVEXITY) THAT WAS CONFIRMED ON THE		1.33	DEP
28.44	MP	RT FILM. INDICATIONS 3 AND 4 ARE NOT SHOWN ABOVE AS		29.28	MP
	TOF	THEY ARE FROM CIRCUMFERENTIAL SCANS. THESE ARE ALL			TOF
	ARC	LOW AMPLITUDE (FROM 10 TO 25% DAC) WITH THE TWO CIRC			ARC
	GATE	REFLECTORS JUST ABOVE THE RECORDABLE CRITERIA. <i>slw</i>			GATE
0.010	STEP	EXIT	MAKERAY/UTILITY	0.010	STEP
	EXIT	LEFT	RIGHT		EXIT
PLANT: PLANT FARLEY UNIT 1		5/11/00	CIRC. POS.: 0 DEGREES		
SYSTEM: FEEDWATER SG 'C'		14:49	ANALYST: J. ERIC AYCOCK L/III		
COMPONENT: ALA2-4350-24R			CAL. SHEET: SOOF10287		

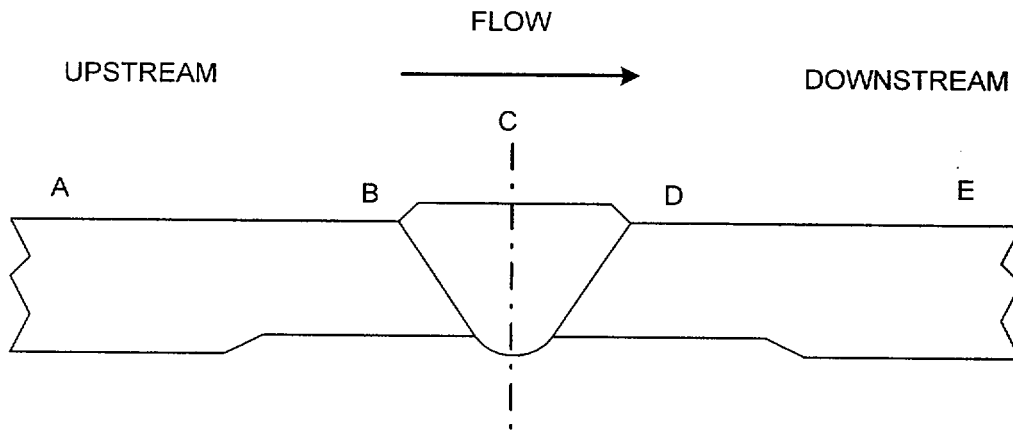
Ultrasonic Thickness and Contour Examination Record

Southern Nuclear Operating Company

Unit 1	Weld Number ALA2-4350-24R	Sheet No. S00F1U284	Date 5/11/00
WO/Drawing Number ALA2-4350	Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer PANAMETRICS	
Material Type <input checked="" type="checkbox"/> C/S <input type="checkbox"/> S/S Other	Calibration Standard/ Serial No. CS STEP / 86-4257	Model Number EPOCH II	Serial Number 91060212
Examiner PAUL DIVALERIO <i>Paul Divalerio</i>	SNT Level II	Transducer Manufacturer KBA	Type MSEB
Examiner SCOTT R. ERICKSON <i>Scott R. Erickson</i>	SNT Level II	Serial Number 06605	Size 3.5X10MM
			Frequency 4 MHz



Location	0°	90°	180°	270°
A	1.04	1.19	1.218	1.21
B	.922	.941	.850	.941
C	.850	.839	.803	.886
D	.889	.876	.876	.876
E	.937	.958	.966	.949



COUNTERBORE

Reducer

UPSTREAM

Nozzle

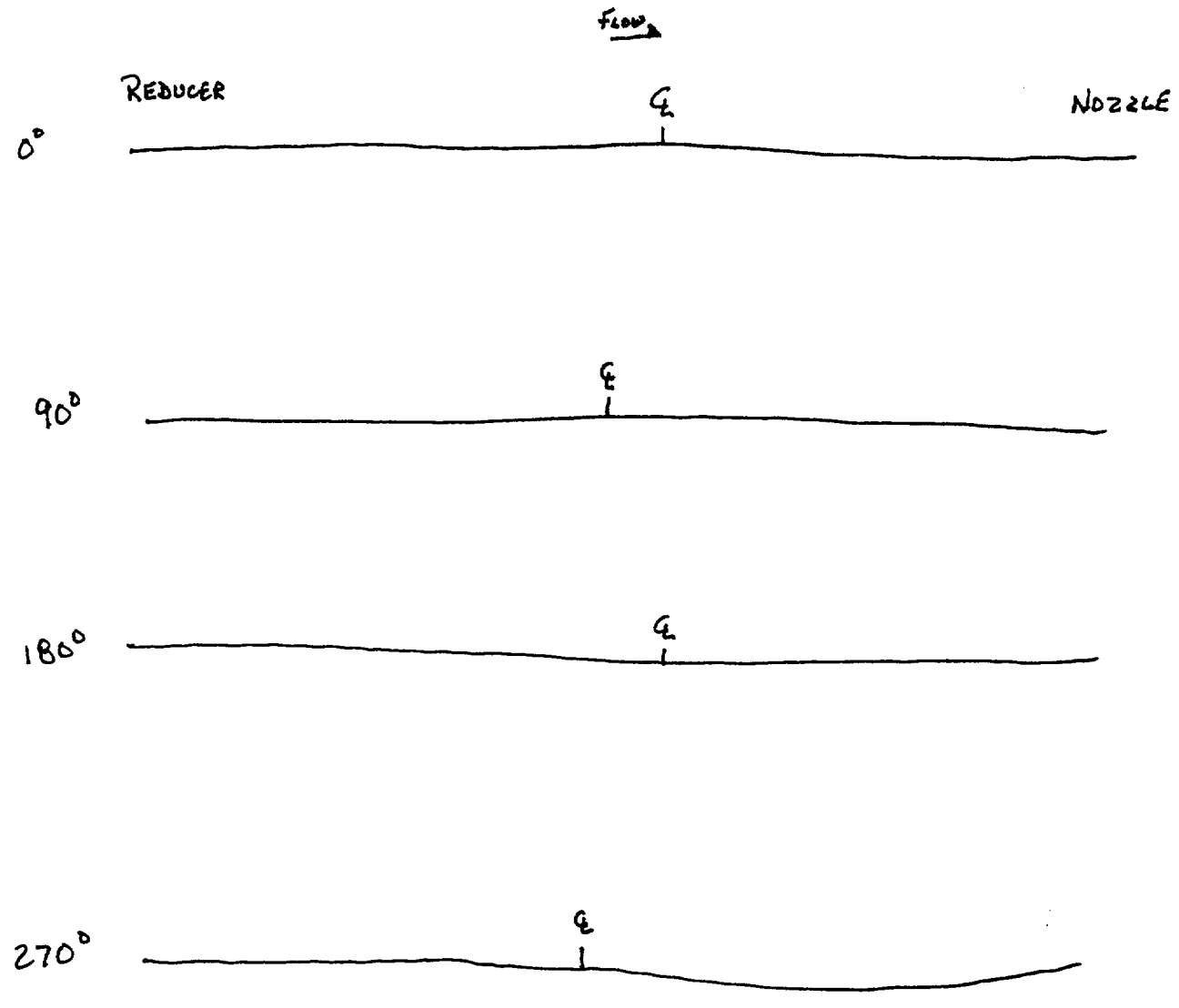
DOWNSTREAM

REMARKS: *N/A*

JE Level II/III Review <i>J. Eric Orzech</i>	Level III	Date 5-11-00	Non-Technical Review <i>Samuel J. [Signature]</i>	Date 5-12-00
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ALA2-4350-24R

Sheet No.
SOOFI1283 2 of 2
4
400 5-11-00





WP&IR # P-FWC-068	NONDESTRUCTIVE EXAMINATION REPORT MAGNETIC PARTICLE EXAMINATION	REPORT # MT-00-137
----------------------	--	-----------------------

JOB # 23734	JOB NAME Farley Unit 1 SGRP	SURFACE CONDITION <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AS WELDED	DATE 5/10/00
----------------	--------------------------------	---	-----------------

ISO / DWG # FSK-M-150	ITEM / COMP ID FW	TIME OF EXAM <input type="checkbox"/> N/A <input type="checkbox"/> PRE-PWHT <input checked="" type="checkbox"/> POST-PWHT	COMPONENT TEMP AMBIENT
--------------------------	----------------------	--	---------------------------

CODE / WELD CLASS ASME XI / CL 2	COMPONENT CONFIGURATION REDUCER To NOZZLE	MATL TYPE <input checked="" type="checkbox"/> CARBON STEEL	PROCEDURE & REVISION MT-ASME III/XI R/2
-------------------------------------	--	---	--

EQUIPMENT <input checked="" type="checkbox"/> YOKE <input checked="" type="checkbox"/> AC DA-400 <input checked="" type="checkbox"/> CALIBRATION VERIFIED SN-10004 <input type="checkbox"/> 10 LBS Cal Due 8-17-00	EXAM MEDIUM <input checked="" type="checkbox"/> DRY <input checked="" type="checkbox"/> VISIBLE MANUFACTURER MAGNAFLUX	BATCH # 99H114 DESIG / COLOR BA RED
--	---	--

INDICATION CODE: NI=NO INDICATIONS NRI=NO RECORDABLE INDICATIONS C=CRACK
 ROUND=ROUNDED INDICATION LINEAR=LINEAR INDICATION

PART OR WELD #	ACC (✓)	REJ (✓)	IND CODE	REMARKS
FW 23-SG R1	✓		NI	NONE

SKETCH/COMMENTS LIFT PLATE # 1058

FNP ISI # ALIA2-4350-24R

M&TE NO. N/A

CAL. DUE DATE: N/A

EXAMINER <i>Sam E. Dreyfus</i>	LEVEL II	DATE 5/10/00
-----------------------------------	-------------	-----------------

REVIEW <i>Arif Bagel</i>	DATE 5/11/00
-----------------------------	-----------------

7 Eric Agcock #III 5-11-00

ANIR REVIEW: Cg Ward 5/12/00

FIGURE C-1

NDE INDICATION EVALUATION REPORT

Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 017 Dat 5/12/00

PART I FINDINGS

Sketch Ref: ALA2-4250 NDE Method: UT Procedure/Rev. FNP-0-NDE-100.31 Rev. 7

Item No. 16R

Component Inspected: Reducer to Nozzle

Description of Indication _____

During ultrasonic inspection of weld ALA2-4250-16R (reducer to nozzle), 4 reflectors were recorded per procedure with a peak amplitude of 30% DAC.

Prepared By Gary A. Lofthus SNC L/III *Gal*

Date 05/12/2000

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: ID Root Geometry

Bases: _____

Indications 1-4 were evaluated as geometry per ASME Article III-4512. Typical ultrasonic reflectors resulting from the root of the weld (reference the ultrasonic data report S00F1U278).

Indications 3 and 4 are ID geometry in a repaired area that plot to the same place in the center of the weld.

Review of Previous Examinations: Preservice Examination during SGRP 1R16 outage. No previous Data.

NDE Inspector

Gary A. Lofthus *Gal*

Certification Level

III

Date

05/12/00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Indications are ID geometric reflectors.

Action Required to Correct Indication: None Required

MSR Number: N/A

LER Yes No 10CFR 21 Yes No

Corrective Action Taken: None Required

Corrective Action Initiated to Prevent Recurrence: None Required

Prepared By *Manuel J. Hoffas* Date 5-12-00

Approved By *David Hartley* Date 5/12/00

ANTI REVIEW: EGW and 5/12/00

FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

FNP-NDE-100.31
Southern Nuclear Operating Company

Unit 1	Sketch/Component No. ALA2-4250-16R	Date 5/12/00	Sheet No. S00F1U278	Page 1 of 4
Procedure/Rev./TCN FNP-NDE-100.31 / 7 / N/A	Couplant/Batch No. ULTRAGEL II / 00125	Thermometer SN/Cal Due Date 38193 / 8/27/2000	Linearity Sheet No. S00F1L019	

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	PANAMETRICS	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-51	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	91060212	Serial No.	41016	Thickness	.79	1T	80	3.0	.7	1T	80	4.0	.8
Ax dB	27.1	Circ. dB	32.1	Cal. Temp.	70	2T	65	6.0	1.45	2T	50	8.0	1.6
Ref.	33.1	Size	.50	Cal. In	0119	3T	40	9.0	2.2				
Scan	0	Frequency/Mode	2.25 / S	Cal. Chk.	0205	Calibration Remarks: <i>MSEB 4MHz 06605 was used to perform the lamination scan. Aka 5-1200</i>							
Reject	0	"A" Dimension	.35	Cal. Out	0403								
Frequency	2.25	Nominal Angle	45	Ref. Blk. No.	86-4333								
Mode	PE	Measured Angle	45	Reflector	SDH@35db								
Damping	HIGH/400	Cable Type	RG-174	Amplitude/Sweep	36%/2.8 DIV								

Comp. Temp.: 92 °F Configuration: **REDUCER TO NOZZLE** Wo Location **V-STAMP** Lo Location **TDC**

Scan Dir.	Results			Ind. No.	% DAC	Length			Reference Measurement			Sweep Position			Thickness			Notes:
	NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	--> 1"	
5				N/A														
2				1	25	17.65"	18.25"	18.75"	-	.78"	-	-	1.22"	-	.82"	.868"	.82"	LOW AMP. SIGNAL ON 5 SIDE
2				2	30	23.65"	23.75"	23.85"	-	.85"	-	-	1.26"	-	-	-	-	
7				3	20	.4"	.5"	.625"	*	0	*	1.12"	1.09"	1.06"	-	.750"	-	.1" LENGTH

Examination/Limitation Remarks: **LAM SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAMINATION. LAM SCAN AMPLITUDE MAINTAIN 50 TO 80 PERCENT OF FULL SCREEN HEIGHT.**

Total Length of Weld	Crown Width	Total Length of Weld Examined					Extent of Perpendicular Scans (W)					Extent of Parallel Scans (L)								
51"	1.2"	5 (L)	51	2 (L)	51	7 & 8 (W)	51	5 - from	NL	to	NL	2 - from	NL	to	NL	From (5)	NL	to	(2)	NL
Primary Examiner	Level		Assistant Examiner		Level		Non-Technical Review		Date											
GARY A. LOFTHUS	III		J. ERIC AYCOCK		III		<i>J. Eric Aycock</i>		5-12-00											
SNC NDE Level II/III Review	Date		Percentage of Code Coverage		ANIR Review		Date													
<i>Gary A. Loftus</i>	5-12-00		100 %		<i>J. Eric Aycock</i>		5/12/00													

Figure 1

FARLEY NUCLEAR PLANT
Ultrasonic Examination Continuation Record

FNP-NDE-100.31
Southern Nuclear Operating Company

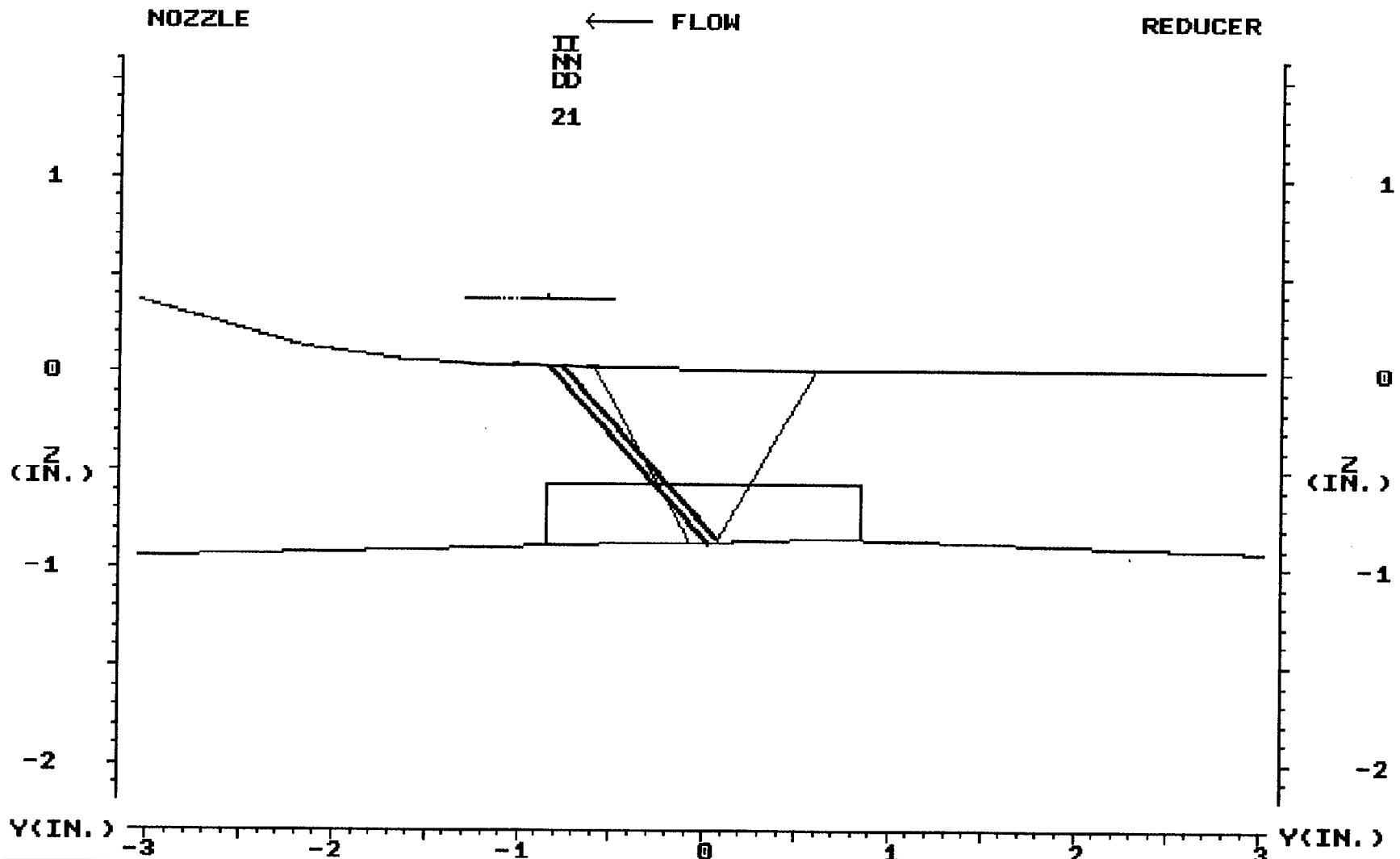
Unit: 1 Sketch/Component No.: ALA2-4250-16R Date: 5/12/00 Sheet No.: S00F1U278 Page 2 of 4

Procedure/Rev./TCN FNP-NDE-100.31 / 7 / N/A						Appendix III Exams. D1 = NA D2 = NA Measured Angle = 45 °						Configuration REDUCER TO NOZZLE						
Scan Dir.	Crown Width	Results			Ref No	% DAC	Length			Reference Measurement			Sweep Position			Thickness		Notes:
		NI	NRI	RI			L1	Lmax	L2	W1	Wmax	W2	S1	Smax	S2	1" < --	C/L	
8				4	20	2.5"	2.375"	2.25"	*	0	*	1.18"	1.12"	1.06"	-	.750"	-	.1" LENGTH

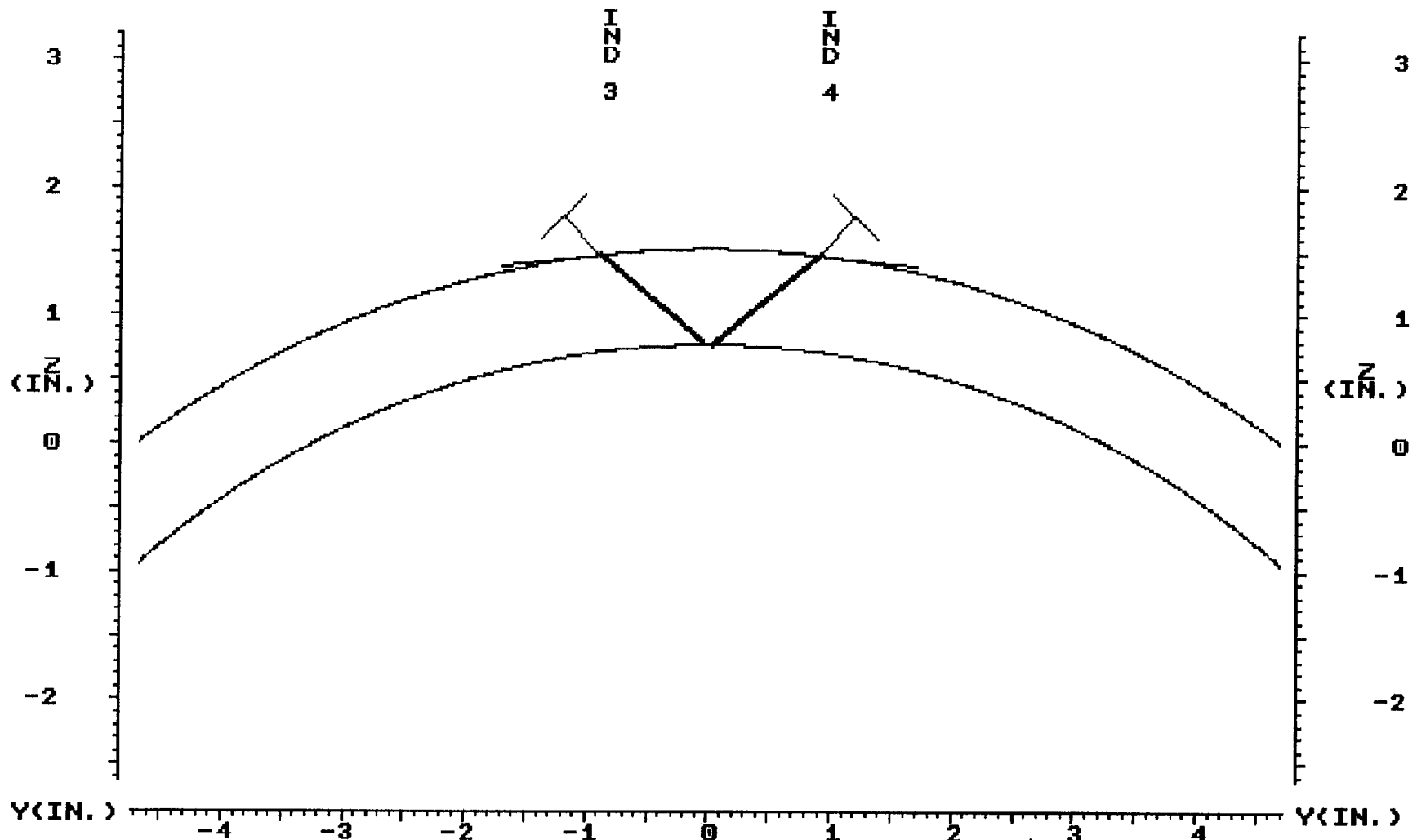
Examination/Limitation Remarks: LAM SCAN PERFORMED IN BASE MATERIAL OF INTEREST PRIOR TO ANGLE BEAM EXAMINATION. LAM SCAN AMPLITUDE MAINTAIN 50 TO 80 PERCENT OF FULL SCREEN HEIGHT.

Total Length of Weld	Crown Width	Total Length of Weld Examined				Extent of Perpendicular Scans (W)				Extent of Parallel Scans (L)											
51"	1.2"	5 (L)	51	2 (L)	51	7 & 8 (W)	51	5 - from	NL	to	NL	2 - from	NL	to	NL	From (5)	NL	to	(2)	NL	
Primary Examiner GARY A. LOFTHUS		Level III				Assistant Examiner J. ERIC AYCOCK				Level III				Non-Technical Review J. Eric Aycock				Date 5-12-00			
SNC NDE Level II/III Review <i>Gary A. Loftus</i>		Date 5-12-00				Percentage of Code Coverage 100 %				ANII Review <i>J. Eric Aycock</i>				Date 5/12/00							

Figure 1



IND 1	SET	1R16016R					IND 2	SET
0.86	DEP					0.00	DEP	
1.22	MP					0.00	MP	
27.51	TOF	INDICATION 1 AND 2 ARE ROOT GEOMETRY.					8.00	TOF
	ARC	INDICATION 3 AND 4 ARE ID GEOMETRY IN REPAIRED AREA						FAN
	GATE	AND PLOT TO THE SAME PLACE IN THE CENTER OF THE WELD						GATE
0.010	STEP	SEE SHEET 3 FOR INDICATIONS 3 AND 4 (CIRC)					1.000	STEP
	EXIT	MAKERAY	UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT
PLANT: PLANT FARLEY UNIT 1		5/12/00		CIRC. POS.: 0 DEGREE				
SYSTEM: FEEDWATER 'B'		3:05		ANALYST: J. ERIC AYCOCK L/III				
COMPONENT: ALA2-4250-16R				CAL. SHEET: S00F1U278				

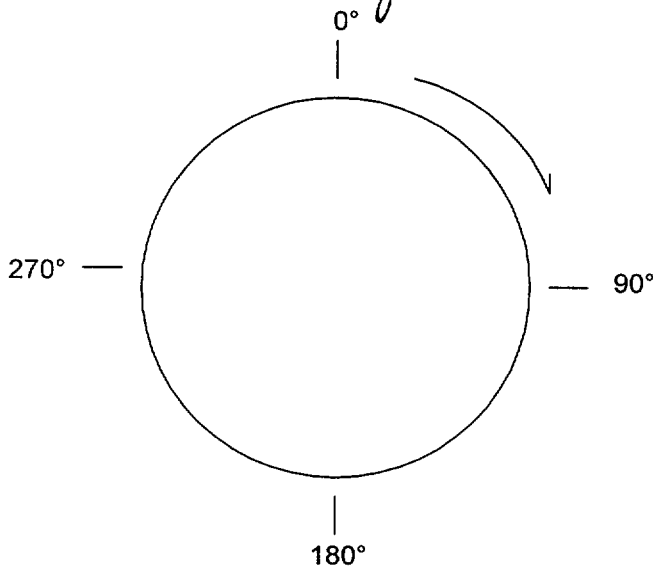


IND 3	SET	CIRC16R.DAT					IND 4	SET
0.77	DEP	INDICATION 3 AND 4 ARE ID GEOMETRY IN REPAIRED AREA AND PLOT TO THE SAME PLACE IN THE CENTER OF THE WELD					0.79	DEP
1.09	MP						0.79	MP
25.49	TOF						25.91	TOF
	ARC							ARC
	GATE		GATE					
0.010	STEP		STEP					
	EXIT	0.010	EXIT					
	MAKERAY/UTILITY	LEFT	RIGHT	TOP	PRINT	EXIT		
PLANT: FARLEY UNIT 1		5/12/00		CIRC. POS.: 1.4"		IND 4		
SYSTEM: FEEDWATER 'B'				ANALYST: J.ERIC AYCOCK L/III		SET		
COMPONENT: ALA2-4250-16R				CAL. SHEET: S00F1U278 PAGE 40F4		DEP		

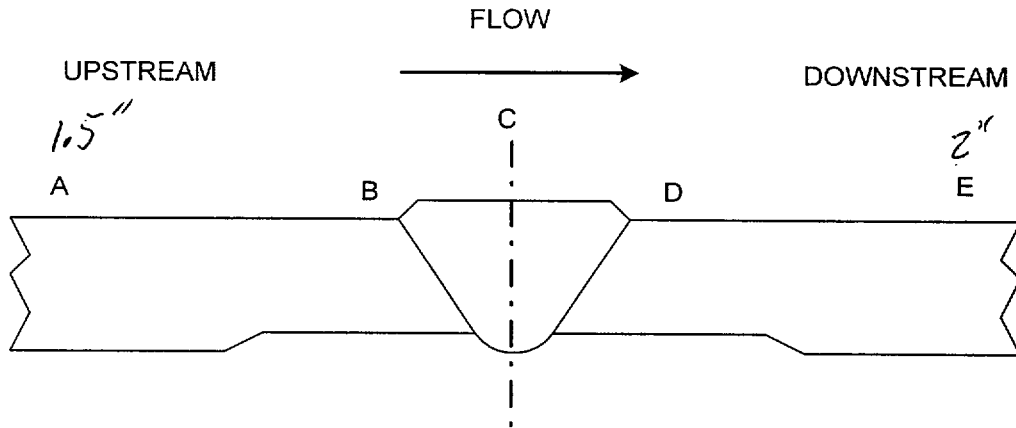
Ultrasonic Thickness and Contour Examination Record

Southern Nuclear Operating Company

Unit 1	Weld Number ALA2-4250-16R	Sheet No. <i>1 of 2</i>	Date 5/12/00
O/Drawing Number ALA2-4250	Couplant/Batch Number ULTRAGEL II / 00125	Instrument Manufacturer PANAMETRICS	
Material Type <input checked="" type="checkbox"/> C/S <input type="checkbox"/> S/S Other	Calibration Standard/ Serial No. CS STEP / 86-4263	Model Number EPOCH II	Serial Number 91060212
Examiner GARY A. LOFTHUS	SNT Level III	Transducer Manufacturer KBA	Type MSEB
Examiner J. ERIC AYCOCK	SNT Level III	Serial Number 06605	Frequency 4 MHz



Location	0°	90°	180°	270°
A	.928	.918	.909	.879
B	.850	.860	.839	.829
C	.808	.888	.860	.839
D	.860	.888	.900	.860
E	.900	.900	.888	.888



COUNTERBORE

Reducer
UPSTREAM

Nozzle
DOWNSTREAM

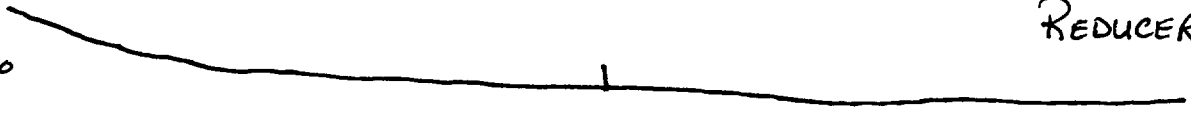
REMARKS: *Center of weld at 1" is ground flush and reading .750"*

E Level II/III Review <i>Gary A. Lofthus</i>	Level III	Date 5-12-00	Non-Technical Review <i>J. Eric Aycock</i>	Date 5-12-00
---	---------------------	------------------------	---	------------------------

NOZZLE

REDUCER

0°



90°



180°



270°

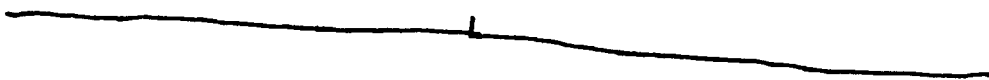


FIGURE C-1

NDE INDICATION EVALUATION REPORT Farley Nuclear Plant

3 10 year Interval 1 40 Month Period 2 Outage Unit 1 / IER No. 4304-7 Date 3/14/00

PART I FINDINGS

Sketch Ref: ALA1-4304 NDE Method: VT Procedure/Rev. FNP-0-NDE-100.21 Rev. 1
Item No. 7

Component Inspected: Valve to pipe weld on 6" Safety Injection System

Description of Indication

During the PT examination of weld 7, 3 gouges were reported on the base metal. A VT-1 was performed to document the length and depth. Eight gouges were reported with lengths from 1/4" to 3 7/8" with depths from 1/64" to 1/16". Base material thickness was .68" See attached Sheets for location, length and depth measurements.

Prepared By Gary Lofthus SNC L/III

Date 03/17/00

PART II SNC NDE INSPECTOR ASSESSMENT

Code References: 1989 ASME Section XI

Evaluation: Remove as much of indications without violating minimum T requirements

Bases: Although the indications individually would be acceptable to section XI re evaluation standards, table IWB-3514-2, we need to write MWC to remove indications as much as possible without violating minimum wall requirements

Letters attached.

Review of Previous Examinations: None previously recorded.

NDE Inspector

Certification Level

III

Date

4/26/00

FIGURE C-1

PART III SNC EVALUATION AND DISPOSITION

Cause of Indication: Unknown, scratches were identified during 1R16 outage, when performing NDE examinations looking for thermal stratification cracking.

Action Required to Correct Indication: Write MWO to polish the surface and remove scratches as much as possible. Maintain minimum wall thickness of at least .628"
Per letter from An N. Nguyen 3-29-2000, Service condition for the pipe is 2235 psi @ 550°F. Design condition is 2485 psi @ 650°F. Allowable stress at 650°F is 16.1 ksi, so minimum wall thickness required is .781 inch plus corrosion allowance. Tolerance on the pipe is 12.5% of nominal wall. The manufactured wall thickness is 0.628"

MSR Number: 2000 2516

LER Yes No 10CFR 21 Yes No

Corrective Action Taken: 20002516 written to remove scratches. Seven scratches removed by polishing. Portion of 1 scratch remaining has a length of 1/16", with 1/64" depth, with a base material thickness of .655". This indication is acceptable per table IWB 3514.2 (allowable 11.23%, actual 4.89%)
An N. Nguyen, letter 4/10/00, agrees that the indication is acceptable and recommended to leave scratch as is - Data Sheets and letter attached.

Corrective Action Initiated to Prevent Recurrence: NONE

Prepared By Harold Hefner Date 4-26-00

Approved By ALYON Date 4/27/00

ANTI REVIEW: CGW and 5/6/00

SHARED

FARLEY NUCLEAR PLANT
Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit 1 Sketch/Component No. ALA1-4304-7 Date 3/12/00 Sheet No. S00F1U029
Procedure/Rev./TCN FNP-0-NDE-100.31 / 7 / N/A Couplant/Batch No. SONATRACE 40 / 94243 Thermometer SN/Cal Due Date 38081 / 8/27/2000 Linearity Sheet No. S00F1L003
Page 1 of 7

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-6	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-898K	Serial No.	031279	Thickness	.719"	1T	80	2.0	.73	1T	80	2.2	.89
Ax. dB		Size	.375	Cal. Temp.	72	2T	50	4.0	1.4	2T	60	4.4	1.9
Ref.	29.0	Frequency/Mode	2.25 / S	Cal. In	0900	3T	25	6.0	2.1				
Scan	41.0	"A" Dimension	.3	Cal. Chk.	1040	4T	18	8.0	2.83				
Reject	OFF	Nominal Angle	45	Cal. Out	1340	Calibration Remarks: N/A							
Frequency	2.25	Measured Angle	45	Ref. Blk. No.	4976								
Mode	P/E	Cable Type	RG174	Reflector	HOLE								
Damping	500 OHMS	Cable Length	15'	Amplitude/Sweep	18% / 2.0								

Comp. Temp.: 70 °F Configuration: VALVE TO PIPE Wo Location C/L Lo Location TDC

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position			Thickness		Notes
	NI	NRI	RI			L1	L2	W1	Wmax	W2	S1	Smax	S2	1"<--	C/L	
2	●			N/A												
7	●			N/A												
8	●			N/A												

Examination/Limitation Remarks:

VALVE RESTRICTS 5 SCAN. EXTENDED VOLUME PER 97-19-1. LAMINATION SCAN PERFORMED WITH TRANSDUCER D15618 80% FSH WITH 24.2db
REFERENCE IER 4304-7 FOR SURFACE GOUGE RESOLUTION, JRC

Total Length of Weld 21" Crown Width .7" Total Length of Weld Examined 5 (L) N/A 2 (L) NL 7 & 8 (W) NL Extent of Perpendicular Scans (W) 5 - from N/A to N/A Extent of Parallel Scans (L) 2 - from .65 to NL From (5) +.35 to (2) NL

Primary Examiner JOSEPH D. FUNYAK Level II Assistant Examiner N/A Level II Non-Technical Review Date 3-13-00
SNC NDE Level II/III Review Date 3-14-00 Percentage of Code Coverage N/A % ANII Review Date 5/6/00

Figure 1

SHARED

FARLEY NUCLEAR PLANT Ultrasonic Calibration and Examination Record

FNP-0-NDE-100.31
Southern Nuclear Operating Company

Unit **1** Sketch/Component No. **ALA1-4304-7** Date **3/12/00** Sheet No. **S00F1U030** Page **1** of **1**
 Procedure/Rev./TCN **FNP-0-NDE-100.31 / 7 / N/A** Couplant/Batch No. **SONATRACE 40 / 94243** Thermometer SN/Cal Due Date **38081 / 8/27/2000** Linearity Sheet No. **S00F1L003**

Instrument		Search Unit		Calibration Block		Axial Scan Calibration				Circ. Scan Calibration			
Instrument	STAVELEY	Transducer Mfg.	KBA	Cal. Blk. No.	ALA-6	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax	Cal. Refl.	Signal Amp.	Sweep Div.	Wmax
Serial No.	136-898K	Serial No.	031273	Thickness	.719"	1T	80	4.0	.95	N/A	N/A	N/A	N/A
Ax. dB	46.4	Circ. dB	N/A	Cal. Temp.	72	2T	30	8.0	1.93	N/A	N/A	N/A	N/A
Ref.	58.4	Size	.375	Cal. In	0905	Calibration Remarks: N/A							
Scan	58.4	Frequency/Mode	2.25 / S	Cal. Chk.	1050								
Reject	OFF	"A" Dimension	.5	Cal. Out	1345								
Frequency	2.25	Nominal Angle	60	Cal. No.	4976								
Mode	P/E	Measured Angle	53	Ref. Blk. No.	4976								
Damping	500 OHMS	Cable Type	RG174	Reflector	HOLE								
		Cable Length	15'	Amplitude/Sweep	65% / 4.4								

Comp. Temp.: 70 °F Configuration: VALVE TO PIPE

Scan Dir.	Results			Ind. No.	% DAC	Length		Reference Measurement			Sweep Position			Thickness		Notes:
	NI	NRI	RI			L1	L2	W1	Wmax	W2	S1	Smax	S2	1" <--	C/L	
2				N/A												

Examination/Limitation Remarks:
VALVE RESTRICTS 5 SCAN. EXTENDED VOLUME PER 97-19-1.
REFERENCE IER 4304-7 FOR SURFACE GOUGE RESOLUTION. DR

Total Length of Weld	Crown Width	Total Length of Weld Examined		Extent of Perpendicular Scans (W)		Extent of Parallel Scans (L)	
21"	.7"	5 (L) N/A	2 (L) NL	7 & 8 (W) N/A	5 - from N/A to N/A	2 - from .85 to NL	From (5) N/A to (2) N/A
Primary Examiner	Level	Assistant Examiner	Level	Non-Technical Review	Date		
JOSEPH D. FUNYAK	II	N/A	N/A	Lynda Duke	3-13-00		
SNC NDE Level II/III Review	Date	Percentage of Code Coverage	ANII Review	Date			
Danny Cardo III	3-14-00	N/A %	CSW	5/6/00			

Figure 1

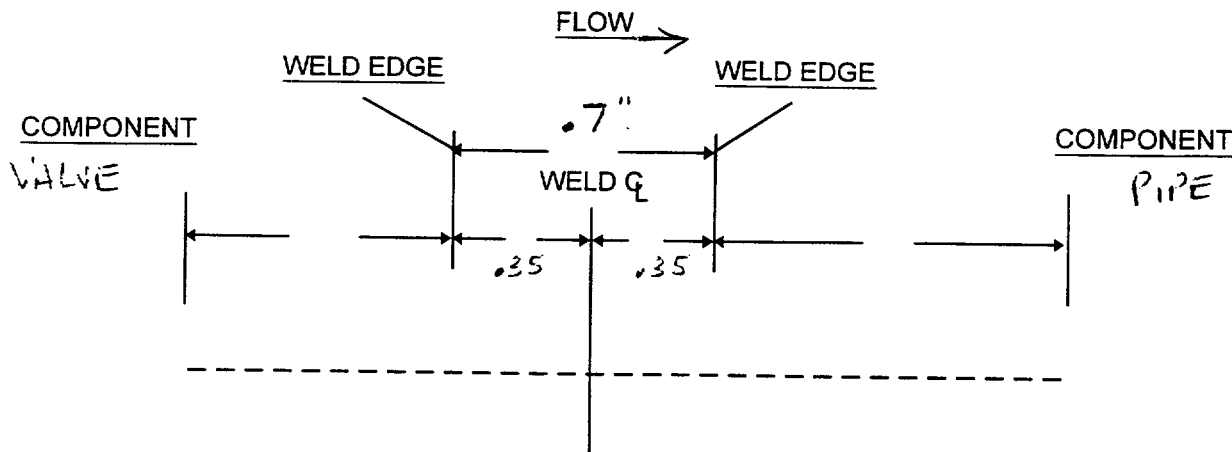
SHARED

Ultrasonic Weld Profile Record

FNP-0-NDE-100.35

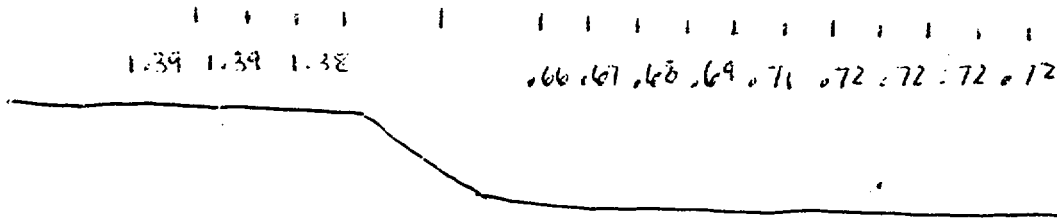
Southern Nuclear Operating Company

Unit 1	Weld Number ALA1-4304-7	Sheet Number S00F1U031	Date 3/12/00
ISO/Drawing Number ALA1-4304		Couplant/Batch Number SONATRACE 40 / 94243	
Material Type SS		Instrument Manufacturer STAVELEY	
Calibration Standard/Serial Number SS STEP / 800887		Model Number SONIC 136	Serial Number 136-898K
Examiner JOSEPH D. FUNYAK <i>JDFunyak</i>		SNT Level II	Search Unit Manufacturer KBA
Examiner N/A		SNT Level N/A	Size .375
Weld Examination Record No. N/A		Indication No. N/A	Frequency 2.25 MHz
Location LMAX TDC WMAX C/L		Component Configuration/Flow VALVE TO PIPE	
		Component Temp °F 70	Thermometer S/N PTC 38081



T. MEASUREMENTS

O.D. PROFILE



T. MEASUREMENT EACH .25 IN.

REMARKS:

NDE LII/III Review

Level Date

Non-Technical Review

Date

Doug Cordes

III 3-14-00

Lynda Duke

3-13-00

Revision 1

SHARED

FNP-0-NDE-100.5

PT-F-Form 001

Farley Nuclear Plant

Liquid Penetrant Examination Record

Southern Nuclear Operating Company

Unit 1	Component Number ALA1-4304-7		Procedure/Rev./TCN FNP-0-NDE-100.5 / 6 / N/A		Sheet No. S00F1P003	Page 1 of 2
Thermometer Mfg. / Ser. No. PTC / 38081 Cal. Due Date 8/27/2000 Surface Temp. 75 °F		Penetrant Materials Manufacturer MAGNAFLUX Cleaner/Remover SKC-S Penetrant SKL-SP Developer SKD-S2		Type SKC-S SKL-SP SKD-S2	Batch 96J05K 93D12K 93J02P	
Component Configuration VALVE TO PIPE				% of Length Coverage 100	Date 3/12/00	% of Area Coverage 100
Ind. No. N/A	Results NRI	Indication Desc. / Exam Limitations / etc.			Remarks See Sheet 2 of 2 for photo taken 3/14/00	

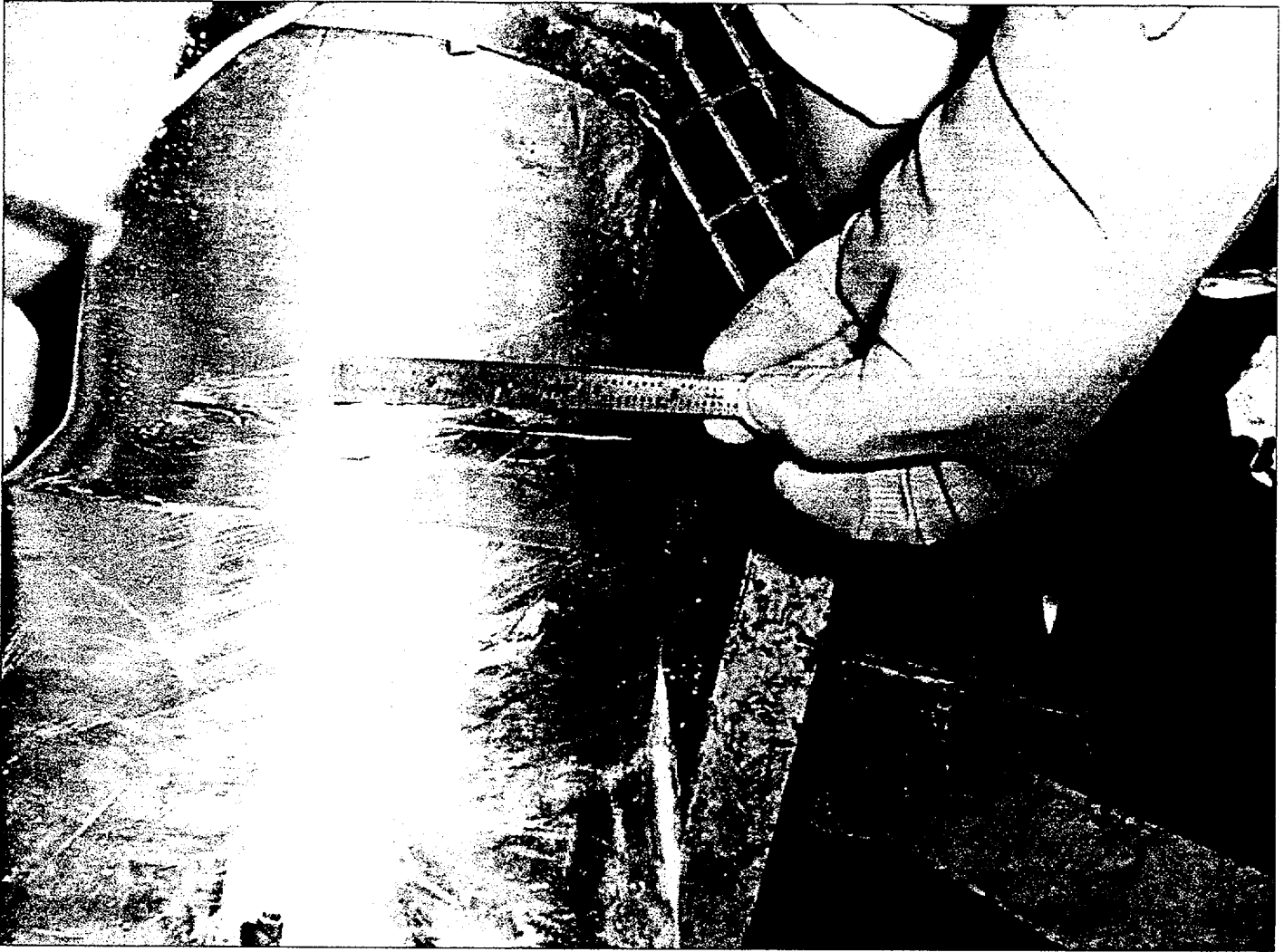
DNL 3-14-00
REFERENCE IER 4304-7 FOR GOODER RESOLUTION.

Remarks: **3 GOUGES (1) 4"CCW TO 2CW" (1/8 TO 9/16 FROM TOE) (2) 4 1/2" CW TO 5" CW (3/8 FROM TOE) (3) 7" CW TO 8" CW (1/4 TO 1/2 FROM TOE)**

Primary Examiner JOHN W. BELL	ASNT Level II	Initials fwB	Assistant Examiner N/A	ASNT Level N/A	Initials	Non-Technical Review Lynda Duke	Date 3-17-00
SNC NDE Level II/III Review Danny Conder L/III		Date 3-14-00	Percentage of Code Coverage 100 %	ANII Review [Signature]		Date 5/6/00	

Figure 1

Revision 6



Name: 14304-7b.jpg
Dimensione: 1024 x 768 pixels

ALA 1-4304-7

SHARED

FIGURE 1

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY /	Line Number/Examination Area/Weld No. ALA1-4304-7			Drawing Number ALA1-4304		Sheet No.	
Photos ___ Yes ___ B&W ___ No ___ Color		Sketch ___ Yes ___ No	Resolution ___ 1/32" Division (Scale) ___ 1/32" Line (Gray Card)		Technique ___ Direct ___ Remote ___ Video		WO/WA Procedure No. FNP-0-NDE-100.21 Revision No. /
Equipment ___ Mirror ___ Magnifier ___ CCTV		Lighting ___ Ambient ___ Flashlight ___ Droplight	Tools ___ Scale ___ Micrometer ___ Caliper		___ Depth Gauge ___ Comparator ___ Weld Gauge ___ Level		Examiner/Initial Sig. <i>[Signature]</i> Level <u>II</u>
						Examiner/Initial Sig. <i>[Signature]</i> Level	Date (Month-Day-Year) 03-15-00
<input checked="" type="checkbox"/> WELDS & BASE MATERIAL VT-1			SAT	UN-SAT	N/A	<input type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1	
Ground Blend Material			___	___	___	SAT	UN-SAT
Undercut			___	___	___	___	___
Corrosion build-Up			___	___	___	___	___
Gouges			___	___	___	___	___
Evidence of Leakage			___	___	___	___	___
Arc Strikes			___	___	___	___	___
Cracks			___	___	___	___	___
Other **			___	___	___	___	___
* Provide details on unsat areas by use of supplemental data sheet. ** Provide details on other areas examined							
Comments <i>SEE ATTACHED</i>							

Darryl A. Lefebvre LV III 5-5-00

ANDE REVIEW: LGW 5/6/00

Page 1 of 2

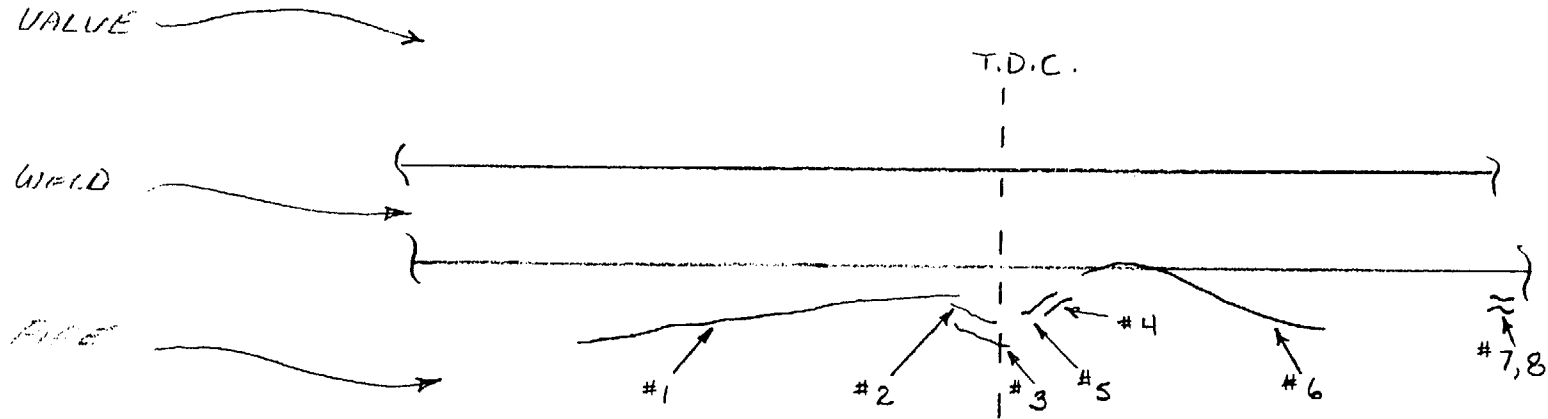
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY 1	Line Number/Examination Area/Weld No. ACA1-4304-7	Drawing Number ACA1-4304	Sheet No.
WO/WA No.	Date (Month-Day-Year) 03-15-00	Examiner Paul Swales	Level II
Procedure No. FNP-0-NDE-100.21			Location OFF COLD LEG REP "C" PLATFORM
Revision No. 1			



Comments: #1	3 7/8" LONG	1/64" - 1/32" DEEP	#5	1/4" LONG	1/64" - 1/32" DEEP
#2	3/8" LONG	1/32" DEEP	#6	2" LONG	1/64" - 1/32" DEEP
#3	3/8" LONG	1/16" - 1/32" DEEP	#7	1" LONG	1/64" DEEP
#4	1/4" LONG	1/32" - 1/64" DEEP	#8	1" LONG	1/64" DEEP

ALA1-4304-7

B-J B9.11 Table IWB-3514-2 Volumetric

T=.68"

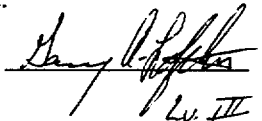
Ind.	Depth a	Length l	T	a/l	a/t	Allowable a/t	Comments
1	.031"	3.875"	.68"	.008	4.56%	11.1%	Acceptable
2	.031"	.375"	.68"	.083	4.56%	11.5%	Acceptable
3	.063"	.375"	.68"	.168	9.26%	11.8%	Acceptable
4	.031"	.25"	.68"	.124	4.56%	11.6%	Acceptable
5	.031"	.25"	.68"	.124	4.56%	11.6%	Acceptable
6	.031"	2"	.68"	.016	4.56%	11.1%	Acceptable
7	.016"	1"	.68"	.016	2.35%	11.1%	Acceptable
8	.016"	1"	.68"	.016	2.35%	11.1%	Acceptable

Surface Method- length=.227" for thickness = .68" Acceptance Criteria

*Per IWB-3514.3(b), utilizing Allowable flaw standards for Volumetric examination.

All indications would be acceptable per Section XI, Table IWB-3514-2, Austenitic Steel / Volumetric Exam. Method.

Gary Lofthus

 Date: 5-5-00
L. III - UT

Lofthus, Gary A.

From: Nguyen, An N.
Sent: Wednesday, March 29, 2000 5:15 PM
To: Lofthus, Gary A.
Cc: Taufique, Ashfaq
Subject: FW: IER-4304-7

Gary,

I have looked at the pipe specs for this pipe. The 6 inch CCA-22 class is schedule 160, SA-312 Type 304 material. The nominal thickness of the pipe 0.718 inch. Your pipe wall measurement is 0.68 inch. I guessed that is because of the countered bore for the weld.

Service condition for the pipe is 2235 psi @ 550F. Design condition is 2485 psi @ 650F. Allowable stress at 650F is 16.1 ksi. So the minimum wall thickness required 0.481 inch plus corrosion allowance.

The tolerance on the pipe is 12.5% of the nominal wall. The manufactured minimum wall thickness is 0.628 inch. So, you can remove .051 inch without any need for reconciliation.

Please let me know if that would be enough. I will call you tomorrow.

An Nguyen

☎: 205-992-7307

Fax: 205-992-0324

-----Original Message-----

From: Nguyen, An N.
Sent: Friday, March 24, 2000 3:22 PM
To: Taufique, Ashfaq
Cc: Smith, Jimmy
Subject: FW: IER-4304-7

If I understood the E mail correctly, the flaw met the acceptance criteria of IWB 3514.3. This paragraph says that the V/a ratio must meet the requirement of Table IWB-3514-2. I don't think we have to do anything.

An Nguyen

☎: 205-992-7307

Fax: 205-992-0324

-----Original Message-----

From: Patko, Andrew J.
Sent: Friday, March 24, 2000 3:00 PM
To: Smith, Jimmy
Cc: Nguyen, An N.; Taufique, Ashfaq; Agold, James M.; Lofthus, Gary A.; Ayccock, J. Eric; Monk, Robert L. (Bob); Mayfield, Susan O.; Johnson, J. Randy
Subject: FW: IER-4304-7

ITS has confirmed that the gouges are acceptable per the ASME Section XI criteria. I understand from conversation with Ashfaq and An that SCS can evaluate this condition and will make any needed recommendations for repair. Please target to have this completed by end of the day Wednesday, March/29. Please advise if this will not be possible.

The preliminary thought from SCS was that it will be recommended that the gouges be ground out.

Andy Patko
8-992-5295
Beeper 5294

-----Original Message-----

From: Patko, Andrew J.
Sent: Friday, March 24, 2000 1:37 PM
To: Smith, Jimmy
Cc: Taufique, Ashfaq; Nguyen, An N.; Mayfield, Susan O.; Jones, David H.
Subject: FW: IER-4304-7

Please review this issue and let me know if this evaluation should be done by Westinghouse or if SCS has the analysis on this section of piping. The weld is on the upstream (SI) side of valve QV051A on the 6" safety injection to the cold leg loop 3.

Andy Patko
8-992-5295
Beeper 5294

-----Original Message-----

From: Lofthus, Gary A.
Sent: Thursday, March 23, 2000 3:39 PM
To: Patko, Andrew J.
Cc: Dean, Charles W.; Aycock, J. Eric; Hartline, David B.; Monk, Robert L. (Bob); Agold, James M.
Subject: IER-4304-7

Andy, An IER was written on 8 scratches / gouges in the 6" safety Injection line, Loop C, weld 7. This weld was examined per commitment IN 97-19. This weld had not been previously examined by the ISI program.

We need an evaluation on the gouges and a recommendation on what to do.

Since we are concerned with the thermal stratification, will leaving this "marks" be acceptable? Should they be ground out? What is minimum wall thickness? Will we be getting into a code repair?

Please have SCS review and provide comments. Ricky Allen is on site. Attached is the IER and pictures of the 'marks'. I will send a hard copy in the mail.



ala1-4304-7a.jpg



ala1-4304-7b.jpg



ala1-4304-7c.jpg



IER 1R1643047.doc

Gary A Lofthus
galofthu@southernco.com
205-992-5785 office
205-992-5793 fax

03/30/00

FARLEY NUCLEAR PLANT INFORMATION MANAGEMENT SYSTEM
WORK REQUEST SCREEN

FPAD1501

#: 20002516 ORIGINATOR: Gary Lofthus PHONE: 3512
DATE: 3/30/00 TIME: 14:05

FAILURE
TRENDING
STATUS:
DETECT:
SEVERITY:
SYSTEM EFFECT:
PLANT EFFECT:

TPNS#: q1e21 SAFETY CLASS: CRIT COMP:
NAME:
ENV QUAL: REL EQ: CTMT INT: MOVATS: LLRT:
LOC: ASME: ASME REL: INSRV PLAN:
NPRD:

REPORTED CONDITION/DEFICIENCY:

During the ISI examination of ALA1-4304-7, Scratches identified. Remove by polishing. During polishing, monitor metal removed by UT thickness. A maximum of .031" maybe removed. Document final surface condition and final thickness. Contact Gary Lofthus 3512 prior to starting work. WPC to support polishing surface. This weld is a 6" SI on C loop, cold leg, upstream of valve QV051A, REF. D-175038 sheet 1

- PF2 TO SUBMIT/CHANGE REQUEST
- PF3 TO QUIT
- PF9 TO LIST A FAILURE TRENDING CODE
- PF10 TO RETURN TO MENU ; PF11 TO RETURN TO MAIN MENU
- ENTER TO DISPLAY TPNS INFORMATION IN BOX
- PF21 TO DISPLAY ALL TPNS INFORMATION

NEXT WR#:

03/18/00 13:55:19

SHARED
FIGURE 1

FNP-0-NDE-100.21
RTYPE: L1.09

VISUAL EXAMINATION RECORDED VT-1

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY	Line Number/Examination Area/Weld No. <i>AL41 - 4304 - 7</i>			Drawing Number <i>AL41 - 4304</i>		Sheet No.		
Photos <input checked="" type="checkbox"/> Yes <input type="checkbox"/> B&W <input type="checkbox"/> No <input type="checkbox"/> Color	Sketch <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Resolution <input checked="" type="checkbox"/> 1/32" Division (Scale) <input type="checkbox"/> 1/32" Line (Gray Card)		Technique <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Video <input type="checkbox"/> Remote		WO/WA <i>WCC # 20002510</i> <i>IER # 430</i>		
						Procedure No. FNP-0-NDE-100.21		Revision No. <i>1</i>
Equipment <input checked="" type="checkbox"/> Mirror <input type="checkbox"/> Magnifier <input type="checkbox"/> CCTV	Lighting <input type="checkbox"/> Ambient <input checked="" type="checkbox"/> Flashlight <input type="checkbox"/> Droplight		Tools <input checked="" type="checkbox"/> Scale <input type="checkbox"/> Micrometer <input type="checkbox"/> Caliper <input type="checkbox"/> Depth Gauge <input type="checkbox"/> Comparator <input type="checkbox"/> Weld Gauge <input checked="" type="checkbox"/> <i>CAMBRIDGE</i> <input checked="" type="checkbox"/> <i>GAUGE</i>		Examiner/Initial Sig. <i>[Signature]</i> Level <i>II</i>			
					Examiner/Initial Sig. <i>N/A</i> Level			
					Date (Month-Day-Year) <i>04-05-00</i>			
<input checked="" type="checkbox"/> WELDS & BASE MATERIAL VT-1			SAT	UN-SAT	N/A	<input type="checkbox"/> BOLTS, STUDS, AND WASHERS VT-1		
Ground Blend Material			---	---	---	Loose Members		
Undercut			---	---	<input checked="" type="checkbox"/>	Cracks		
Corrosion build-Up			---	---	<input checked="" type="checkbox"/>	Corrosion		
Gouges			---	<input checked="" type="checkbox"/>	---	Gouges		
Evidence of Leakage			---	---	<input checked="" type="checkbox"/>	Thread Damage		
Arc Strikes			---	---	<input checked="" type="checkbox"/>	Deformation		
Cracks			---	---	<input checked="" type="checkbox"/>	Protective Coating		
Other **			---	---	<input checked="" type="checkbox"/>	Evidence of Leakage		
* Provide details on unsat areas by use of supplemental data sheet.							Other**	
** Provide details on other areas examined								
Comments <i>SEE ATTACHED</i>								

Barry L. Loftis LU III 5-5-00

AMT REVIEW: [Signature] 5/6/00

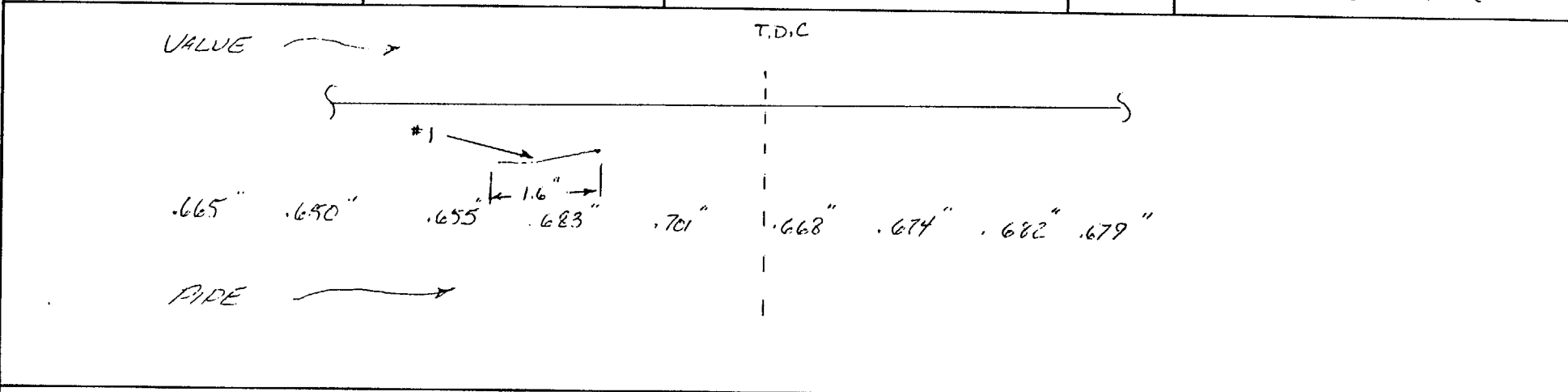
FIGURE 2

VISUAL EXAMINATION SUPPLEMENTAL DATA SHEET

FARLEY NUCLEAR PLANT

SOUTHERN NUCLEAR OPERATING COMPANY

Plant/Unit FARLEY	Line Number/Examination Area/Weld No. <i>ALA1-4304 - 7</i>	Drawing Number <i>ALA1-4304</i>	Sheet No.	
WO/WA No. <i>ICK # 430</i>	Date (Month-Day-Year) <i>04-05-00</i>	Examiner <i>Tim Stoblin</i>	Level <i>II</i>	Location <i>OFF COLD LEG REP "C" PLATFORM</i>
Procedure No. <i>FNP-0-NDE-100.21</i>				
Revision No. <i>1</i>				



Comments: #1 GAUGE 1/64" DEPTH AND 1.6" LONG

NOTE: PREVIOUS GAUGES #1 THROUGH #8 BUFFED, #1 WHICH WAS 5 3/8" LONG IS NOW 1.6" LONG - ALL OTHER GAUGES WERE COMPLETELY REMOVED. THICKNESS READINGS WERE TAKEN EVERY INCH ALONG BUFFED AREA. MINIMUM THICKNESS OBSERVED WAS RECORDED.

REF NO 20002516

Page ____ of ____

INSERVICE INDICATION EVALUATION WORKSHEET TABLE IWB-3514-2

WELD NUMBER ALA1-4304-7 DATE 04/06/00 SHEET NO. 1
 SURFACE CONNECTED FLAW=1; SUBSURFACE=0 ANGLE N/A

INDICATION NUMBER	LENGTH L	THICKNESS "t" excluding clad	NEAR DEPTH	FAR DEPTH	Surface a value	Subsurface a value	(LIGAMENT) S	a/t	a/l	Y(S/a)
1	1.60	0.66	0.00	0.03	0.03	0.02	0.00	0.02	4.89	0.00

Y=S/a, if S is less than .4d, then it is a surface fla
 IF S<.4d THE FLAW INDICATION IS CLASSIFIED AS A SURFACE INDIC
 IF Y>1.0, USE Y=1.0
0.00

CLASS 1 TABLE FOR ALLOWABLE a/t%

ASPECT RATIO	SURFACE	SUBSURFACE	*Y=
0.000	11.152	11.152	
0.020	11.232	11.232	0.00
0.050	11.352	11.352	
0.100	11.602	11.602	
0.150	11.752	11.752	
0.200	11.952	11.952	
0.250	12.001	12.001	
0.300	12.101	12.101	
0.350	12.201	12.201	
0.400	12.301	12.301	
0.450	12.350	12.350	
0.500	12.500	12.500	

-----> ACCEPTABLE SURFACE DEFECT

INSERVICE TABLE IWB-3514-2

(ALLOWABLE a/t % VALUES)

Aspect Ratio	INTERPOLATED THICKNESS		INTERPOLATED THICKNESS		INTERPOLATED THICKNESS	
	≤ 0.312"	1"	2"	≥ 3"		
a/t	SURFACE	SURFACE	SURFACE	SURFACE		
0	11.7	10.6	10.0	9.5		
0.05	12	10.7	10.2	9.6		
0.10	12.2	11.0	10.4	9.7		
0.15	12.4	11.1	10.5	9.9		
0.20	12.5	11.4	10.7	10.1		
0.25	12.5	11.5	10.9	10.2		
0.30	12.5	11.7	11.1	10.4		
0.35	12.5	11.9	11.2	10.6		
0.40	12.5	12.1	11.4	10.7		
0.45	12.5	12.2	11.6	10.9		
0.50	12.5	12.5	11.7	11.1		
	SUBSURFACE (ALL "Y)	SUBSURFACE (ALL "Y)	SUBSURFACE (ALL "Y)	SUBSURFACE (ALL "Y)		
0	11.7	10.6	10.0	9.5		
0.05	12	10.7	10.2	9.6		
0.10	12.2	11.0	10.4	9.7		
0.15	12.4	11.1	10.5	9.9		
0.20	12.5	11.4	10.7	10.1		
0.25	12.5	11.5	10.9	10.2		
0.30	12.5	11.7	11.1	10.4		
0.35	12.5	11.9	11.2	10.6		
0.40	12.5	12.1	11.4	10.7		
0.45	12.5	12.2	11.6	10.9		
0.50	12.5	12.5	11.7	11.1		

Lofthus, Gary A.

From: Patko, Andrew J.
Sent: Monday, April 10, 2000 11:38 AM
To: Lofthus, Gary A.
Cc: Taufique, Ashfaq; Nguyen, An N.; Smith, Jimmy; Pappas, Jim B.; Kuhn, Kevin B.
Subject: RE: ALA-4304-7 scratches / gouges

Gary please let us know if you need anything else on this.

Andy Patko
8-992-5295
Beeper 5294

-----Original Message-----

From: Nguyen, An N.
Sent: Monday, April 10, 2000 7:55 AM
To: Patko, Andrew J.; Smith, Jimmy
Cc: Taufique, Ashfaq
Subject: RE: ALA-4304-7 scratches / gouges

I concur with Gary Lofthus' recommendation. The aspect ratio of the remaining indication is approximately 1%, and the depth to thickness ratio is approximately 2.5%. These parameters are well within the limit of the acceptance criteria of Table IWB-3514-2 for in-service volumetric examination. The remaining wall thickness is well above the required minimum manufactured thickness of 0.628.

Based upon the above information, we recommend to leave the scratch as-is.

If you have any questions, please advise.

An Nguyen

Phone: 205-992-7307

Fax: 205-992-0324

-----Original Message-----

From: Patko, Andrew J.
Sent: Friday, April 07, 2000 7:21 AM
To: Smith, Jimmy
Cc: Nguyen, An N.; Taufique, Ashfaq
Subject: FW: ALA-4304-7 scratches / gouges

Jimmy,

The site removed as much of the gouges as possible and would like to leave one as detailed below. Gary would like the SCS letter to reflect that this one gouge remains in the weld and that it is acceptable.

Andy Patko
8-992-5295
Beeper 5294

-----Original Message-----

From: Lofthus, Gary A.

Sent: Thursday, April 06, 2000 5:32 PM
To: Patko, Andrew J.
Cc: Hartline, David B.; Aycocock, J. Eric; Agold, James M.
Subject: ALA-4304-7 scratches / gouges

Andy, MWO-20002516 was performed to polish the surface and remove the scratches in the 6" Safety Injection line, Loop C, weld 7. This weld was examined per commitment IN 97-19. This weld had not been previously examined by the ISI program. Seven scratches were removed, with one scratch remaining. The final dimensions are as follows. Previously listed as Indication 1.) 1.6" length, 1/64" depth with a base material thickness of .655". The work was stopped due to the dose levels, encroaching on the minimum thickness, and not wanting to get into a code weld repair.

An NDE evaluation was performed on the indication in accordance with ASME Section XI acceptance standards for a Class 1 weld, Table IWB-3514-2, and it was acceptable.

We would like a letter / response from SCS Engineering on the acceptability of the weld as-is. This can be sent to David Hartline / Gary Lofthus.

Thank you for your assistance. We look forward to hearing from you.

Gary A Lofthus
galofthu@southernco.com
205-992-5785 office
205-992-5793 fax