



GE Nuclear Energy

GERIS 2000 Examination Summary Sheet

Project: TVA, Browns Ferry Nuclear Plant, Unit 3

System: Reactor Pressure Vessel

Weld ID: V-5-A

ASME Code Category: B-A

Calibration Sheets: C-001, C-104, C-105, C-106

Supporting Data: Examination Data Sheets E-17-00 thru E-17-03, Indication Data Sheets 17-001, G-020 thru G-024, Indication Evaluation Sheets, Screen Prints, Exam Patch Location Map, Exam Coverage Plots, GERIS 2000 Setup Records and Manual Examination Data Sheets D-003, D-004, D-005, D-006.

Examination Summary

The ultrasonic examination of weld V-5-A resulted in no recorded indications that exceed the allowable standards of IWB-3500, ASME Section XI, 1986 Edition, No Addenda.

The ASME Section XI required examination volume was examined with the GERIS 2000 System from the RPV inside surface utilizing Procedure No. GE-UT-700, Rev. 2. This examination was limited due to the steam dryer support bracket at 94°. Areas that could not be examined using the GERIS 2000 and accessible from the outside were examined with manual technique utilizing Procedure No. GE-UT-300 Rev. 6 with FRR-004. The total examination coverage was calculated to be 100%.

The GERIS 2000 utilizes an array of search units arranged to effectively examine the weld and adjacent base material parallel and perpendicular to the weld axis in two directions. The transducer package consisted of 0° longitudinal, 45° and 60° shear wave, and 70° refracted longitudinal (RL) wave search units.

The GERIS 2000 recorded one (1) indication with the 45° shear wave scans that was evaluated and found to be acceptable per the referencing Code section. Geometric indications from the stabilizer bracket and flange radius were recorded with the 45° and 60° shear wave scans.

The manual technique utilized 0° longitudinal, 45° and 60° shear wave search units both parallel and perpendicular to the weld axis in two directions to effectively examine the weld and adjacent base material.

One (1) geometric indication from the steam dryer support bracket was recorded manually with the 0° scans.

Fabrication records and previous examination results were reviewed prior to the completion of this examination summary.

GERIS Analyst: *Ch M*

GE Reviewer: *R.O. Foman*

LEVEL: *III* DATE: *12/15/93*

LEVEL: *II* DATE: *12-15-93*

UTILITY Review: *JFW*

ANII Review:

TITLE: *III* DATE: *1/26/94*

TITLE: *Albert Todd* DATE: *2/13/94*



GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: V-5-A
Patch: C-001

Exam Data Sheet No.: E-17-03
Ind. Data Sheet No.: BF-041
Indication: 17-001

Flaw Thruwall Dimension = 0.28
Flaw Length "l" = 0.75
Separation with clad "S" = 2.05
Surface Separation "S" = 1.86

T nominal = 6.38
Clad T nominal = 0.19

Flaw is acceptable by Table IWB-3510-1

**ASME Section XI, 1986 Edition
 TABLE IWB-3510-1 for 4" to 12"**

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	2.73	3.20 Y
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed 2.73	Allowed 3.20

a = 0.141
 a/l value = 0.188
 Y = 1.000

Flaw is Subsurface

Allowed a/t = 3.20%
 a/t = 2.21%

Comments:

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GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
 Weld ID: V-5-A
 Cal. ID: C-001

Exam Data Sheet No.: E-17-03
 Patch ID: BF-041
 Ind. Data Sheet No.: G-020

Indication: G-020 Channel: 9 Angle: 45 Direction: 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
> 100	197.90	~	~	~	~	711.50	9.04	~	~	~	~	Geometry
~	~	~	~	~	~	~	~	~	~	~	~	~
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Comments: Geometric indication from Flange Radius.

Analyst: CT M5
 Level: III Date: 12/12/93

Reviewed By: R. O. Forman
 Level: II Date: 12-15-93

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GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: V-5-A
Cal. ID: C-001

Exam Data Sheet No.: E-17-03
Patch ID: BF-041
Ind. Data Sheet No.: G-021

Indication: G-021

Channel: 13

Angle: 60

Direction: 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
> 100	197.29	~	~	~	~	716.45	12.24	~	~	~	~	Geometry
~	~	~	~	~	~	~	~	~	~	~	~	~
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Comments: Geometric indication from Flange Radius.

Analyst: CJ Mas

Level: III Date: 12/12/93

Reviewed By: R.O. Forman

Level: II Date: 12-15-93

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GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: V-5-A
Cal. ID: C-001

Exam Data Sheet No.: E-17-01
Patch ID: BF-039
Ind. Data Sheet No.: G-022

Indication: G-022 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
> 100	186.21	~	~	~	~	567.80	8.04	~	~	~	~	Geometry
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Comments: Geometric indication from Stabilizer Bracket at 90°.

Analyst: CF Mas
Level: III **Date:** 12/12/93

Reviewed By: R. O. Forman
Level: II **Date:** 12-15-93



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GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: V-5-A
Cal. ID: C-001

Exam Data Sheet No.: E-17-01
Patch ID: BF-039
Ind. Data Sheet No.: G-023

Indication: G-023 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
> 100	196.85	~	~	~	~	562.05	12.10	~	~	~	~	Geometry
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Comments: Geometric indication from Stabilizer Bracket at 90°.

Analyst: CG Mc
Level: III **Date:** 12/12/93

Reviewed By: R. O. Forman
Level: II **Date:** 12-15-93

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GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: V-5-A
Cal. ID: C-001

Exam Data Sheet No.: E-17-01
Patch ID: BF-039
Ind. Data Sheet No.: G-024

Indication: G-024

Channel: 13

Angle: 60

Direction: 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
> 100	198.54	~	~	~	~	573.20	15.63	~	~	~	~	Geometry
~	~	~	~	~	~	~	~	~	~	~	~	~
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Comments: Geometric indication from Stabilizer Bracket at 90°

Analyst: Cl M

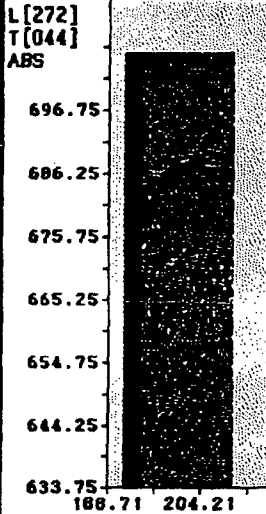
Level: II Date: 12/12/93

Reviewed By: R.O. Foman

Level: II Date: 12

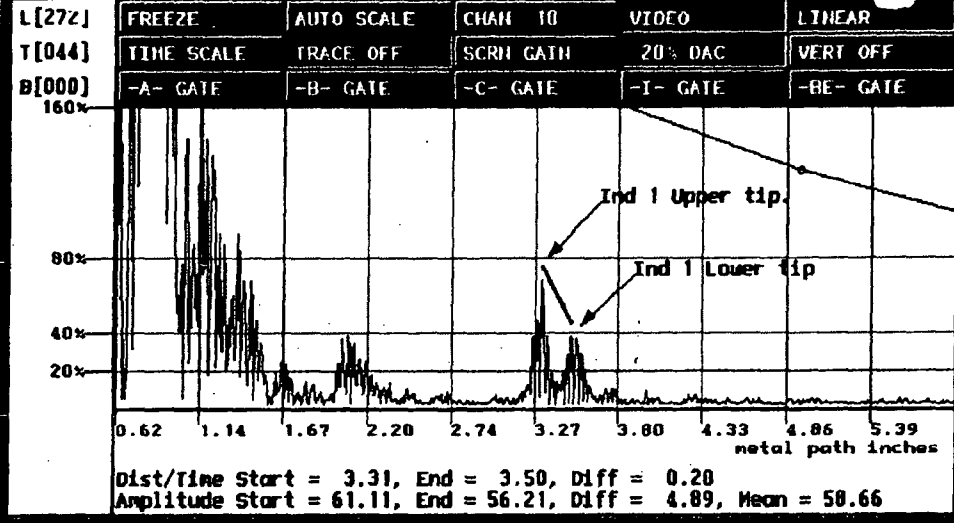
or 1/17-001B

S U : Ch 10 : AMP C-scan : I

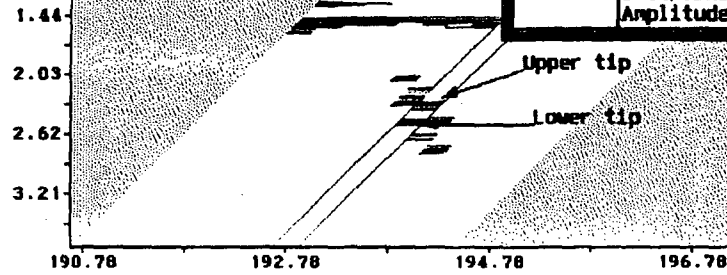


X = 199.71in, Y = 701.75in
RAH-LOG

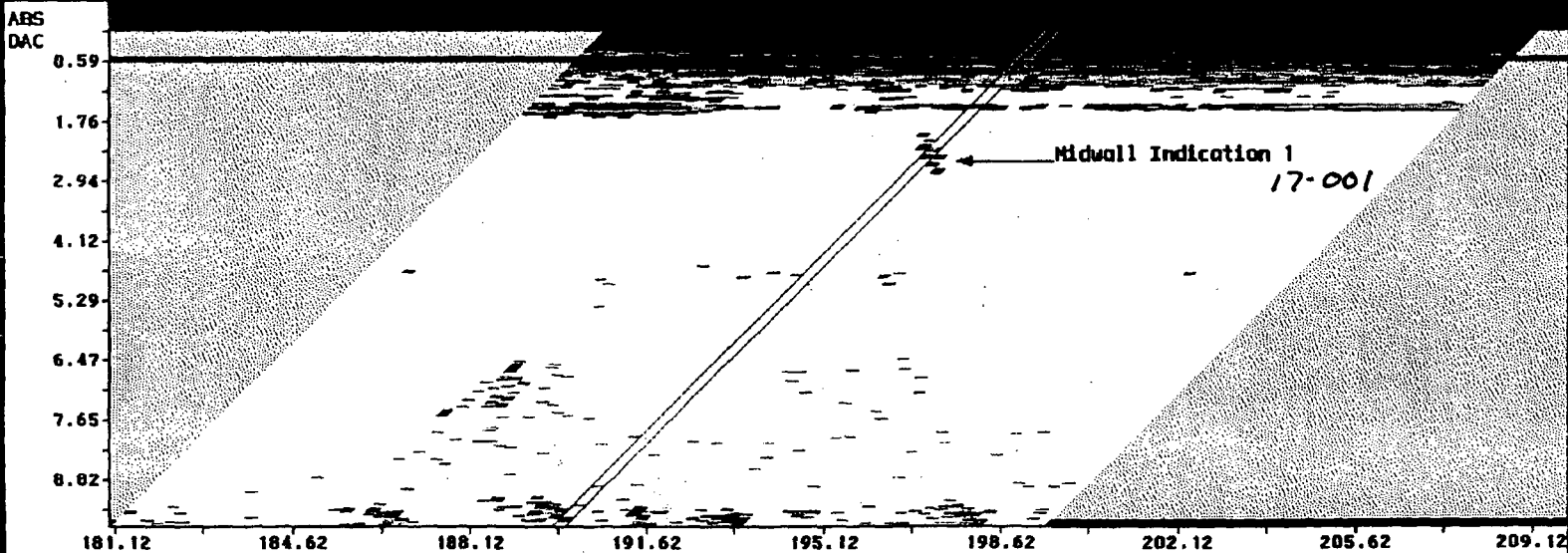
Slot 0 : A-scan : 0F-041 : A 45 : D 270



Ch 10 : B-scan Zoom

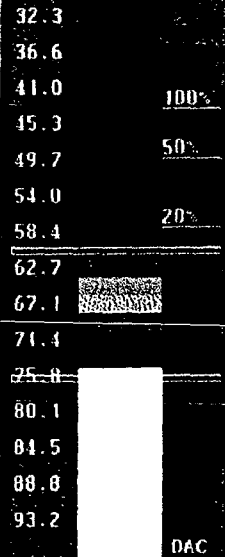


S U : Ch 10 : B-scan : 0F-041 : A 45 : D 270 : H



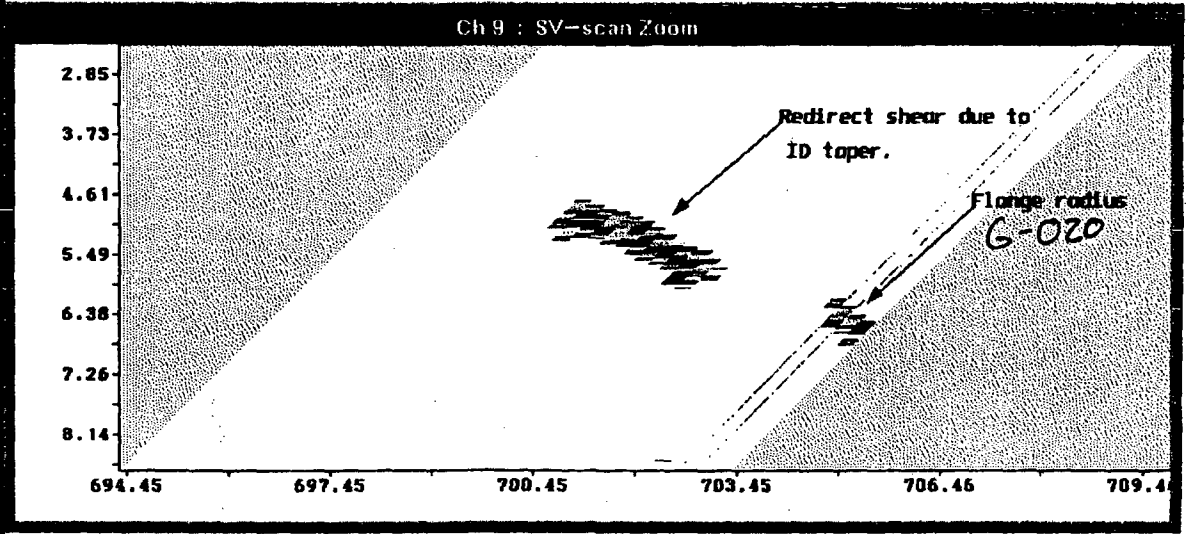
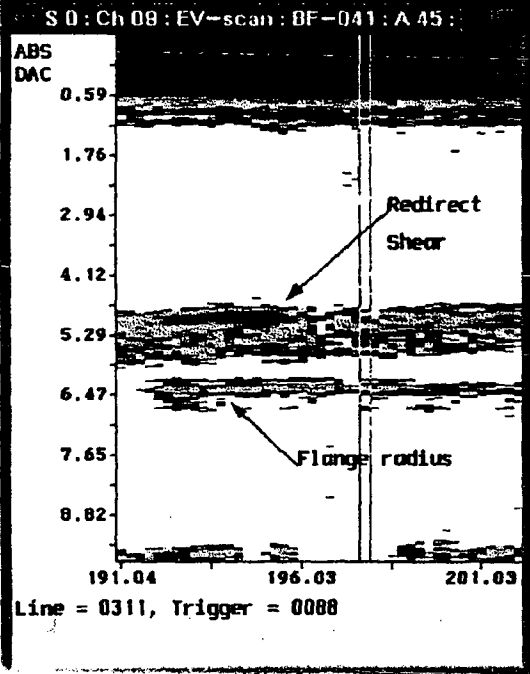
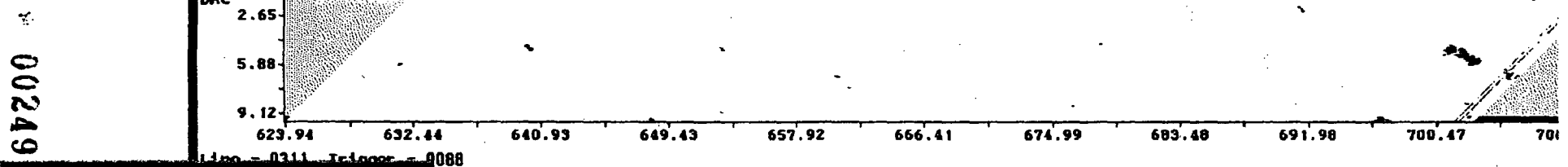
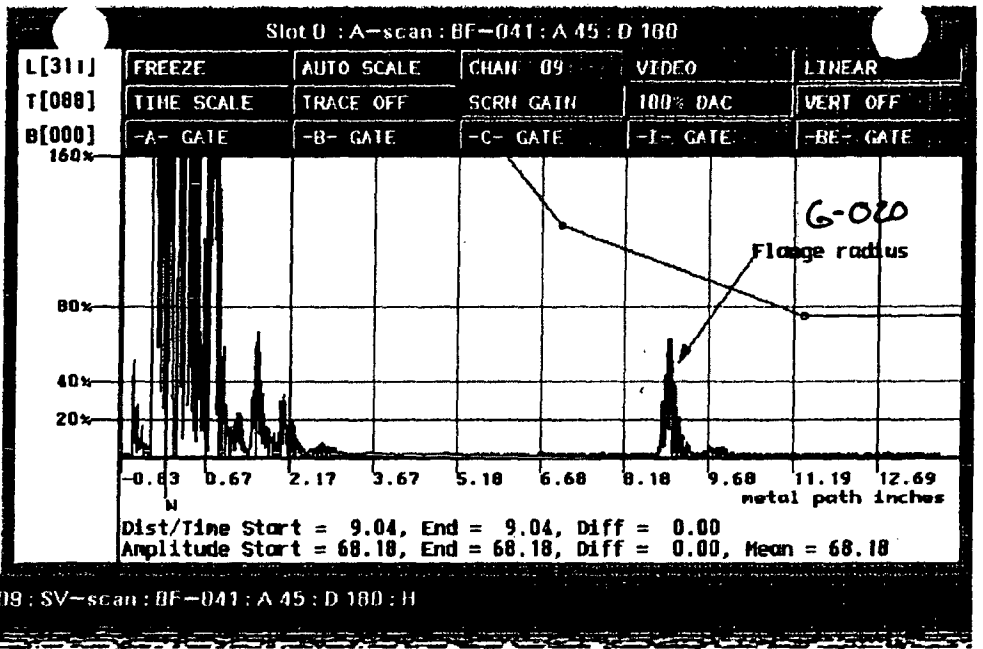
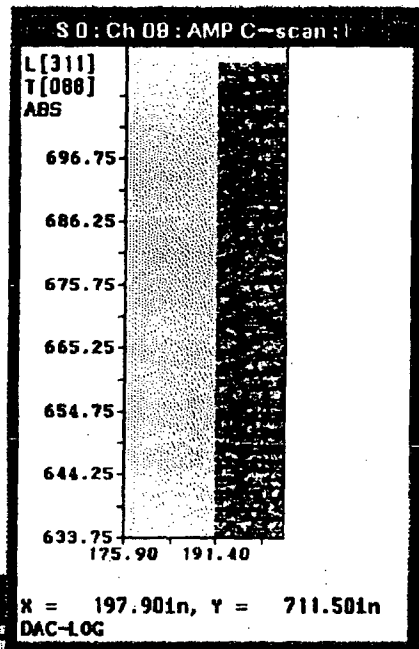
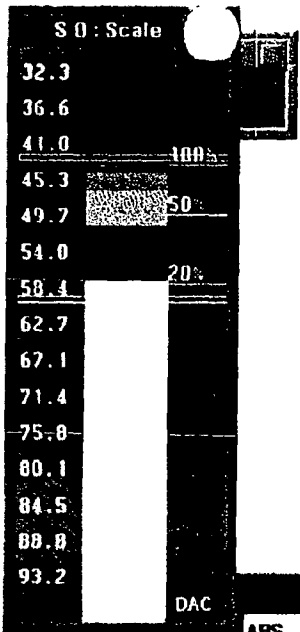
Line = 0272, Trigger = 0044
X = 197.30in, Y = 701.75in Z = 2.38in
Log

S 0 : Scale



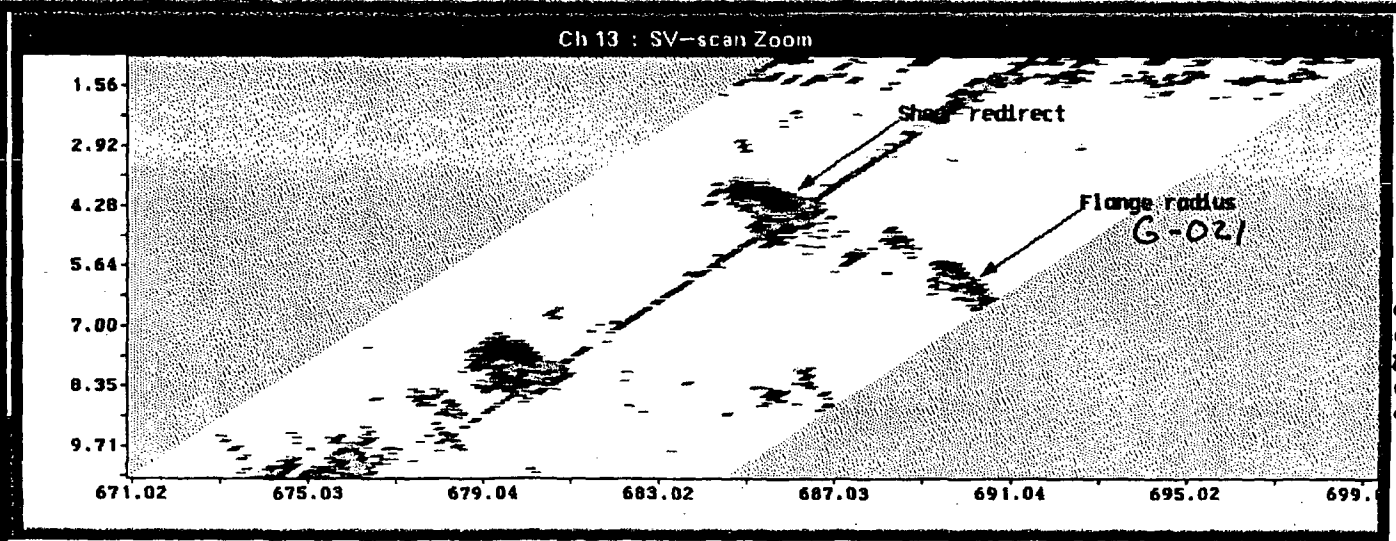
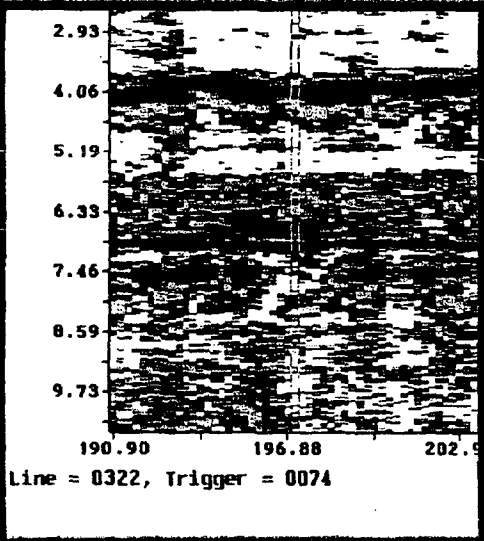
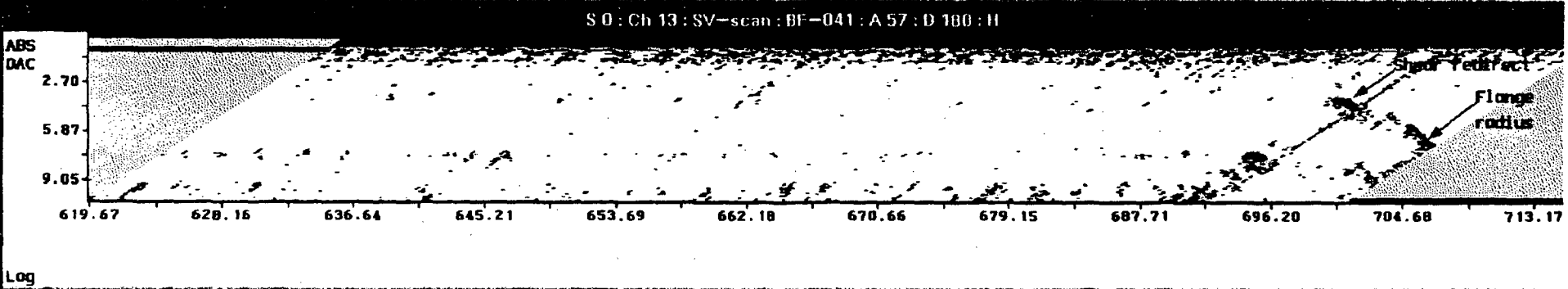
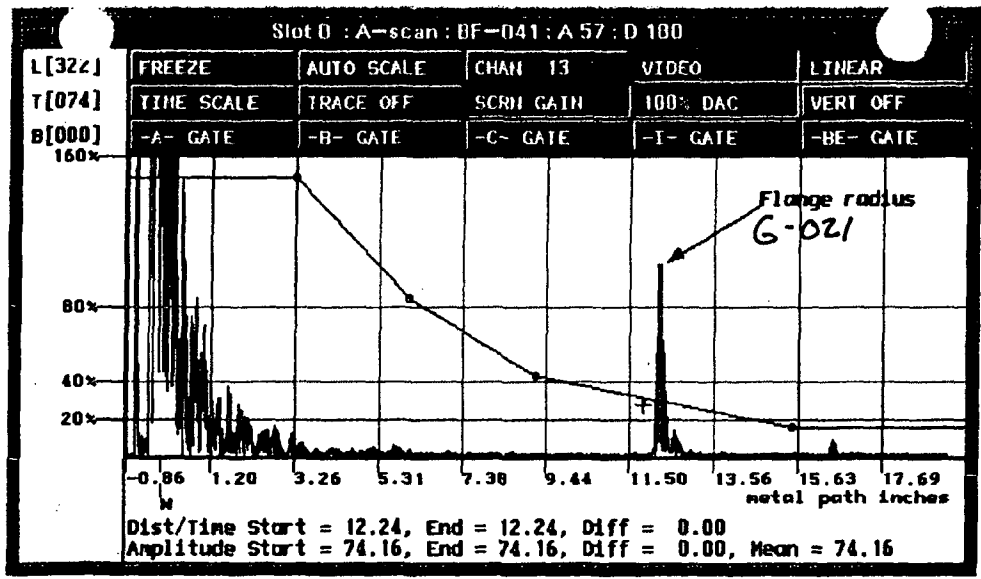
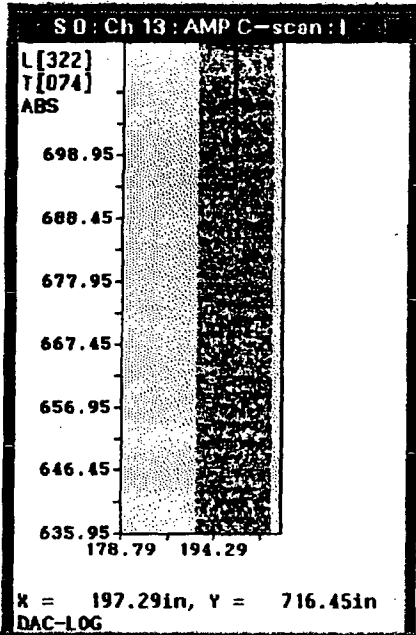
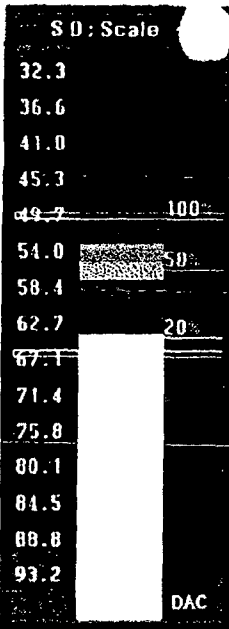
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00249

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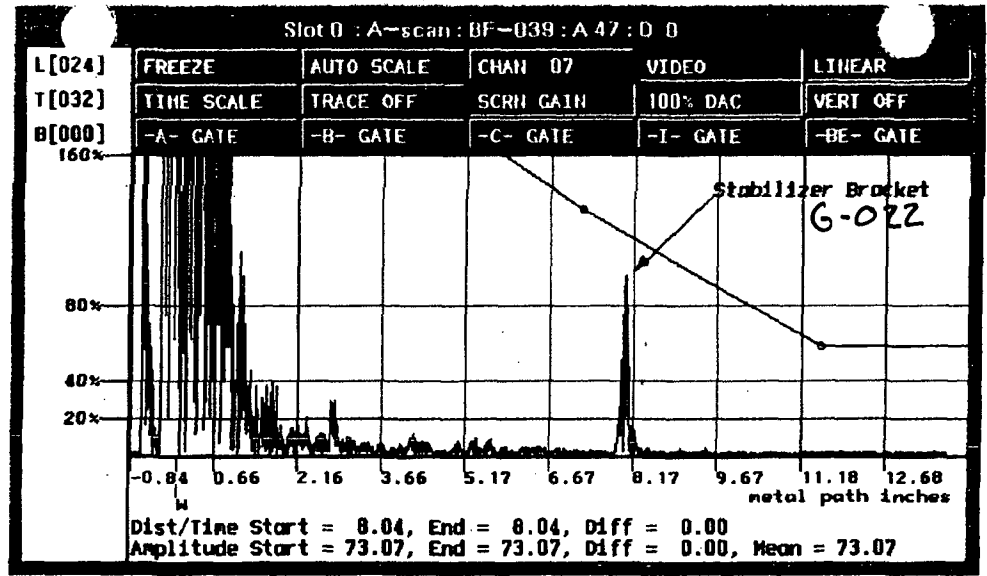
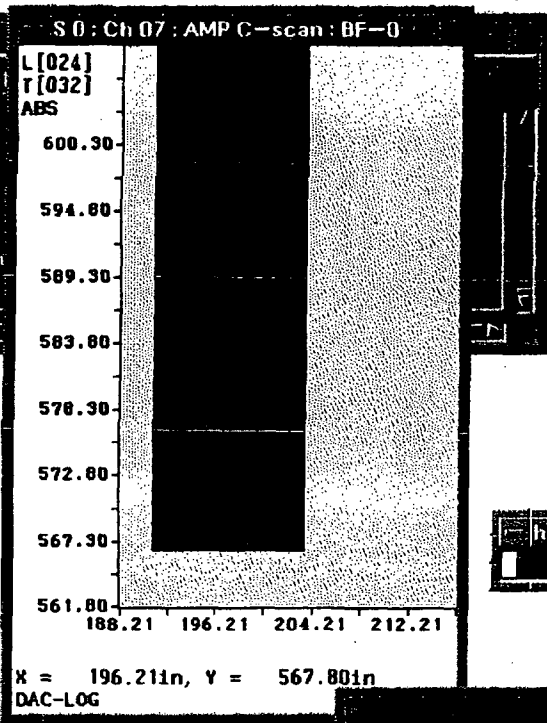
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S 0 : Scale

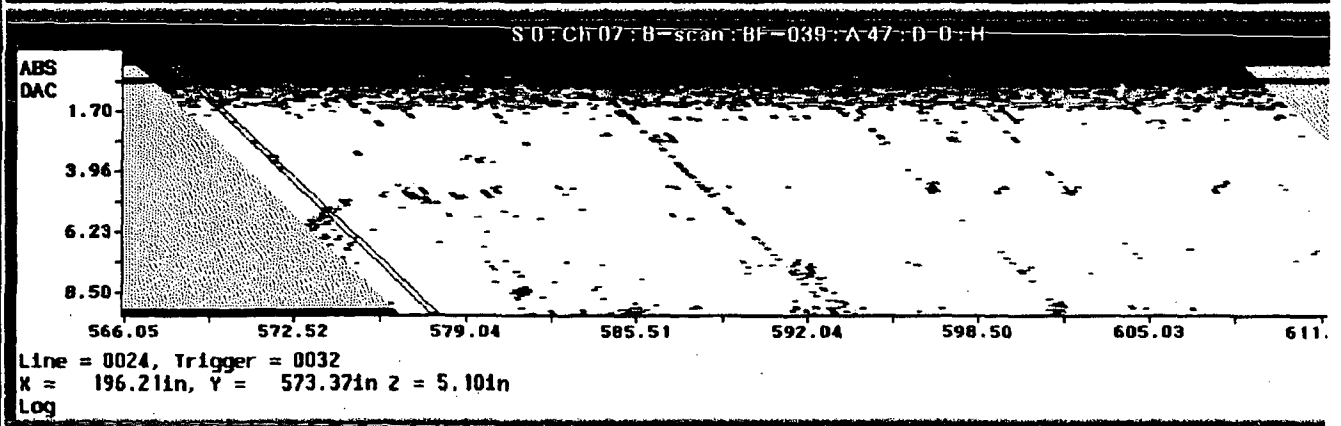
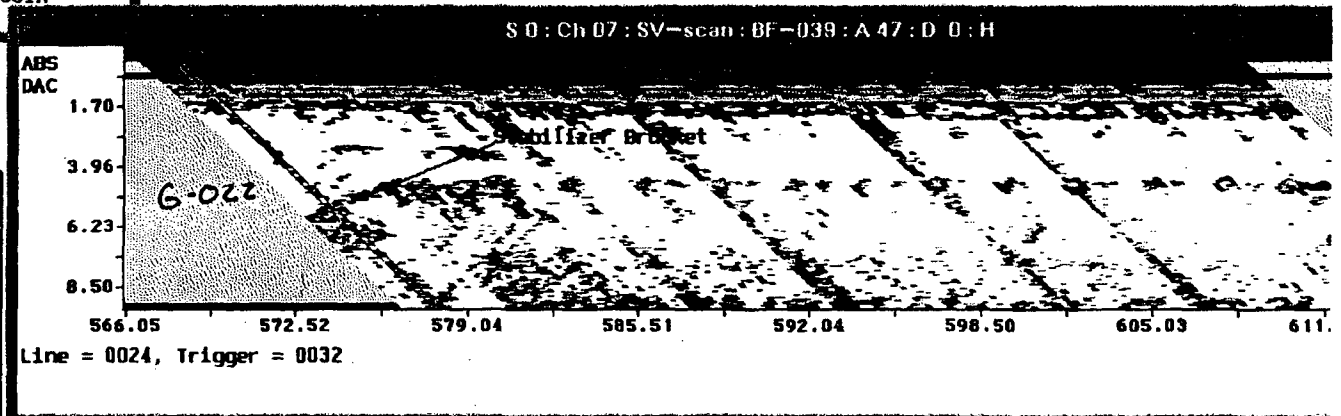
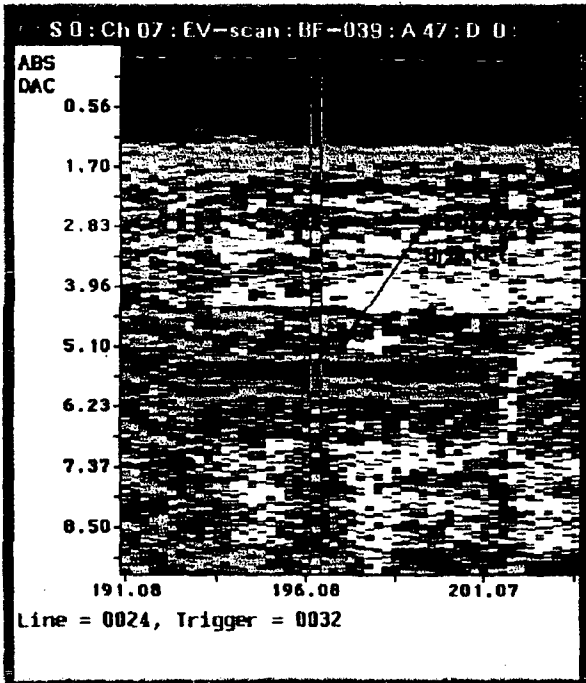
32.3
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88.8
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100%
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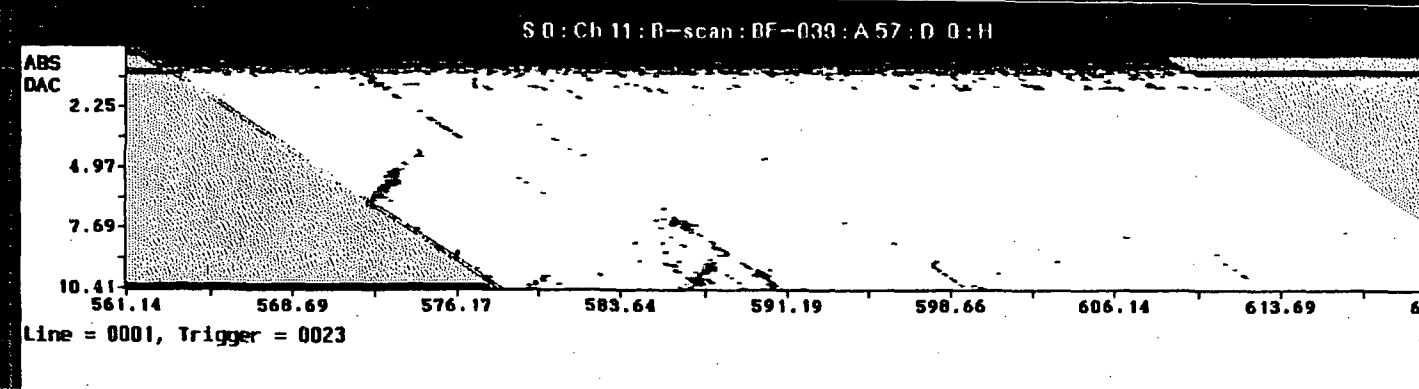
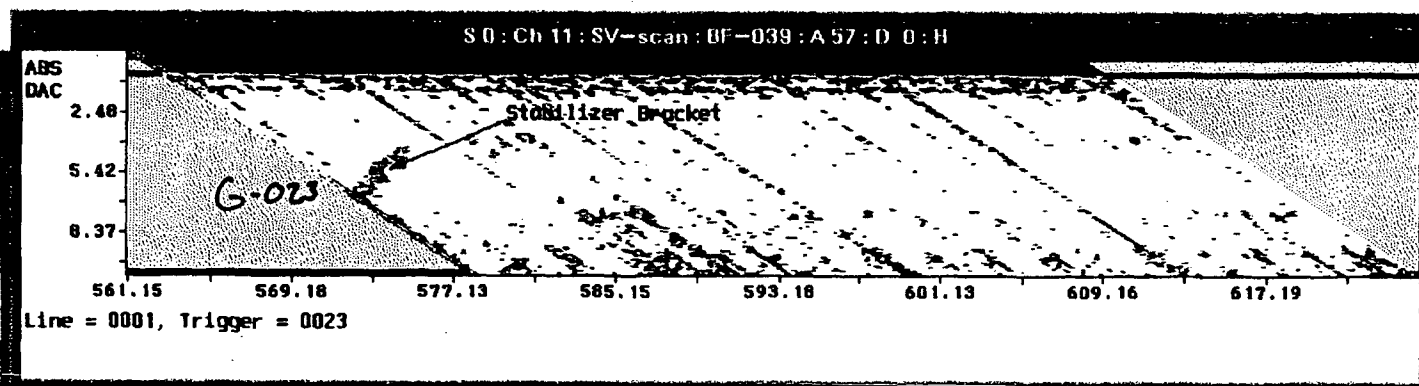
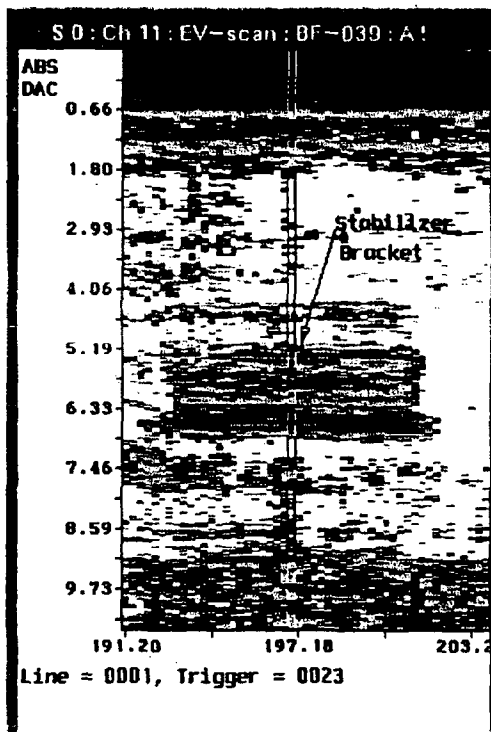
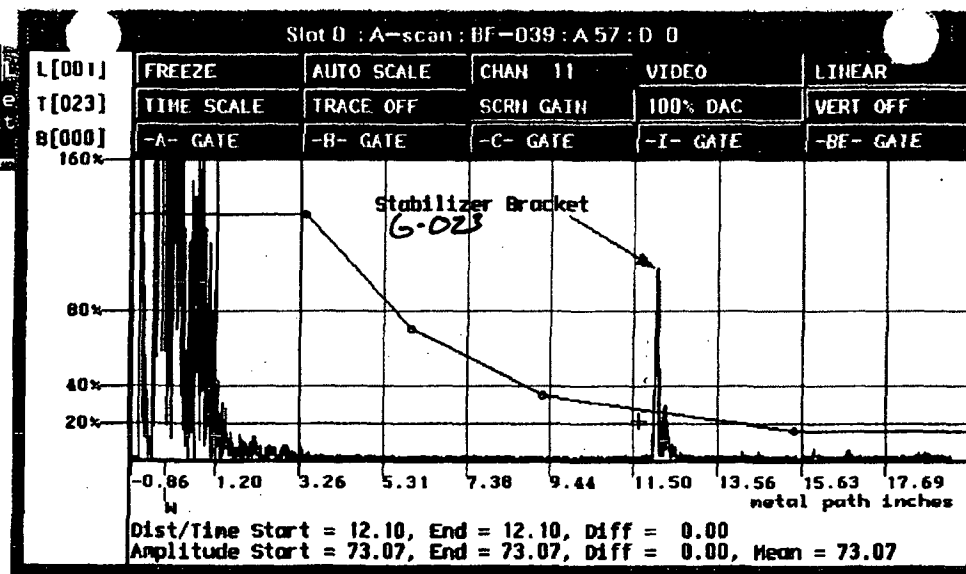
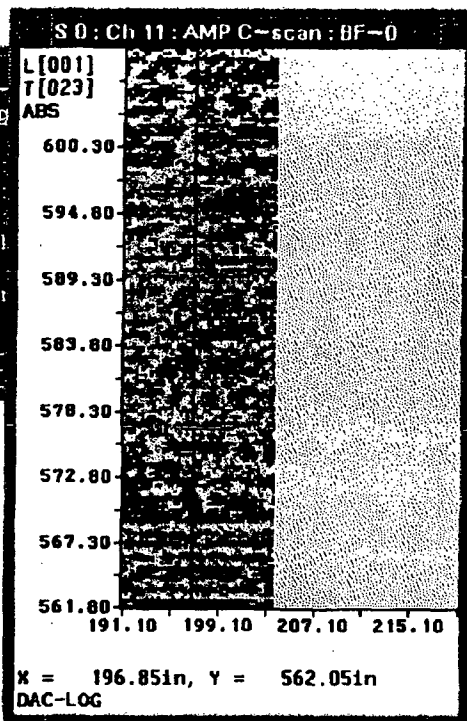
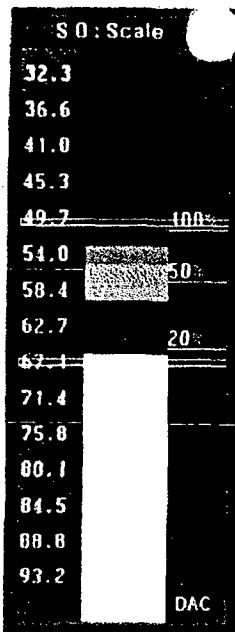
DAC



00251



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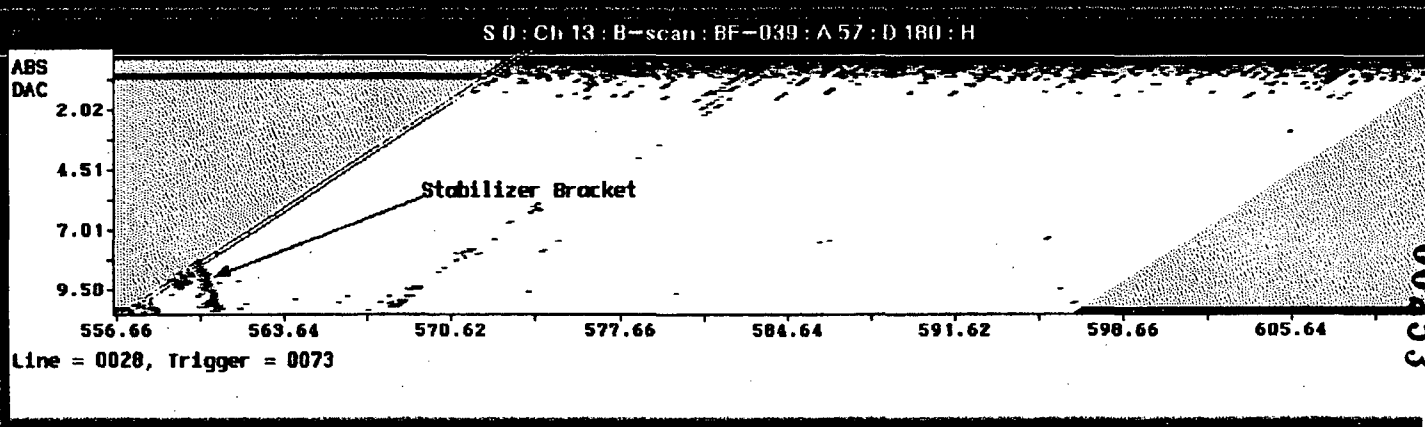
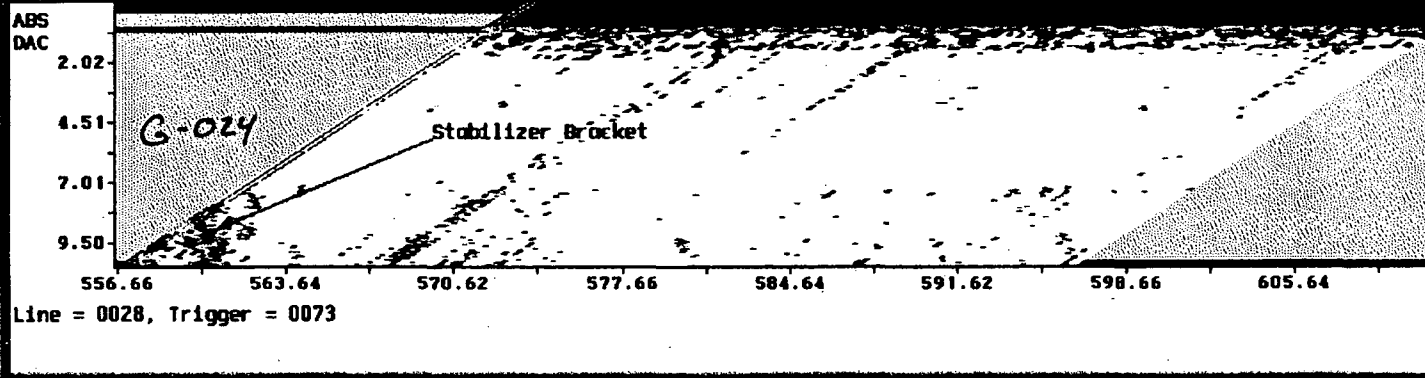
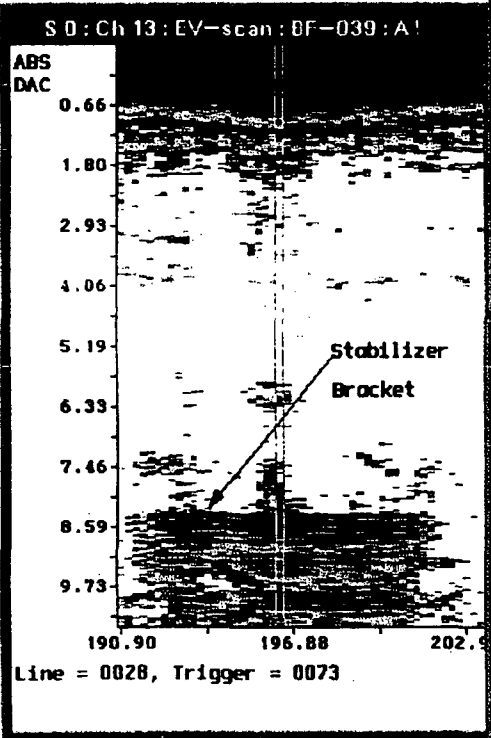
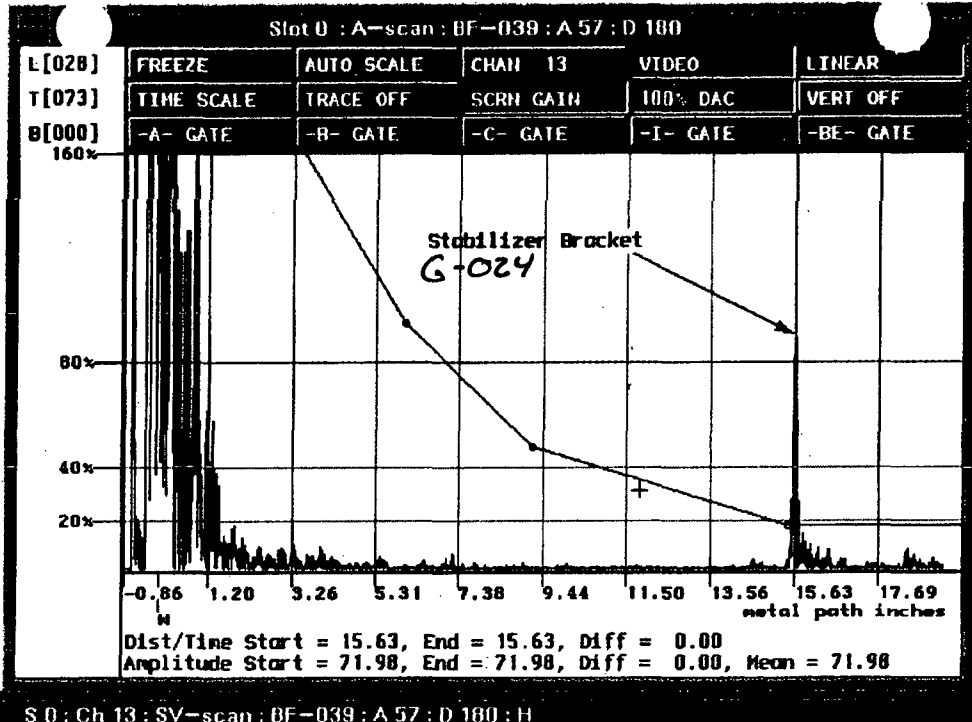
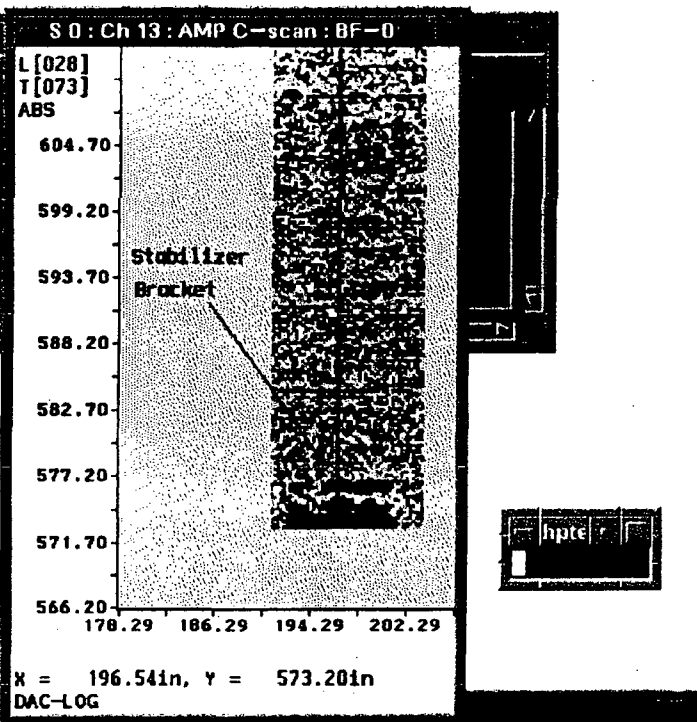
R1169
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00252

S 0 : Scale

32.3
36.6
41.0
45.3
49.7
54.0
58.4
62.7
67.1
71.4
75.8
80.1
84.5
88.8
93.2

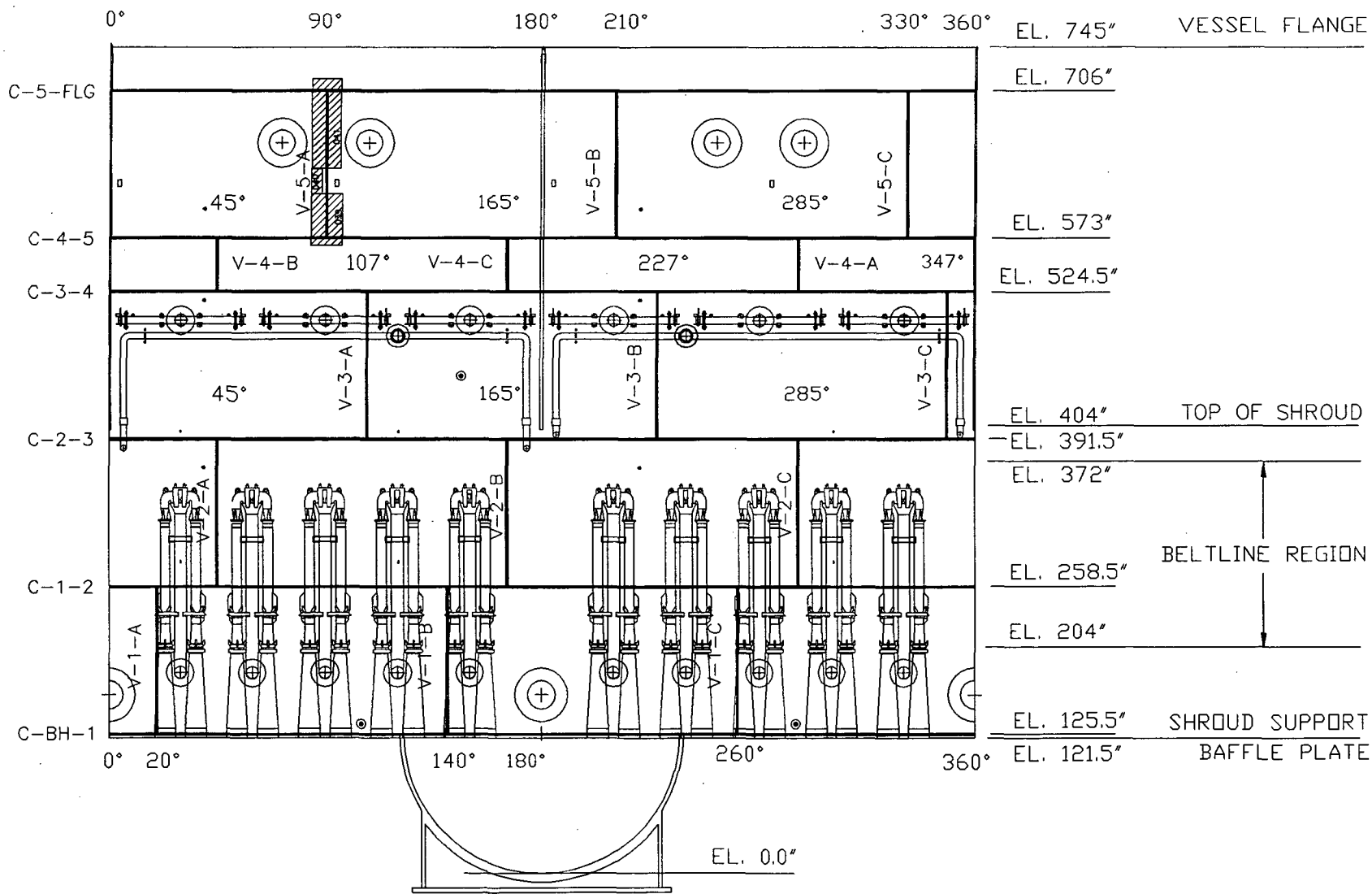
100%
50%
20%

DAC



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00253

BROWNS FERRY UNIT-3 WELD LOCATIONS

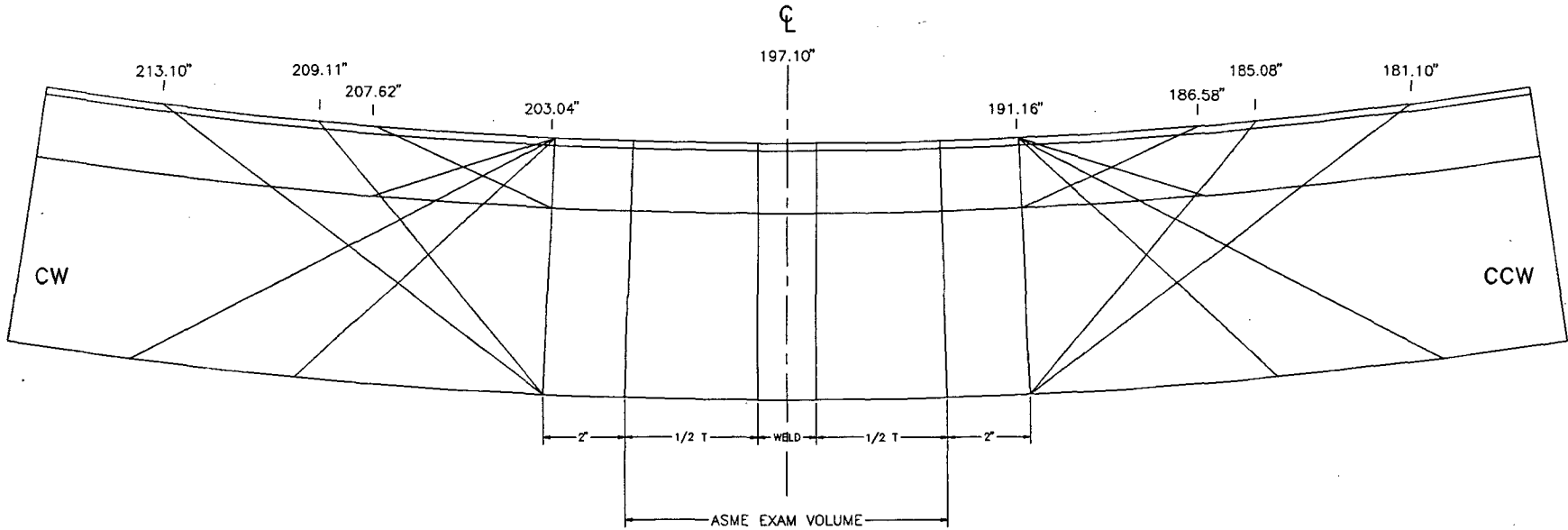


00254

00000 07988

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19 OF 27

GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	VESSEL ROLLOUT & AS SCANNED PATCH LOCATIONS	BF-3-VMA	REV 0
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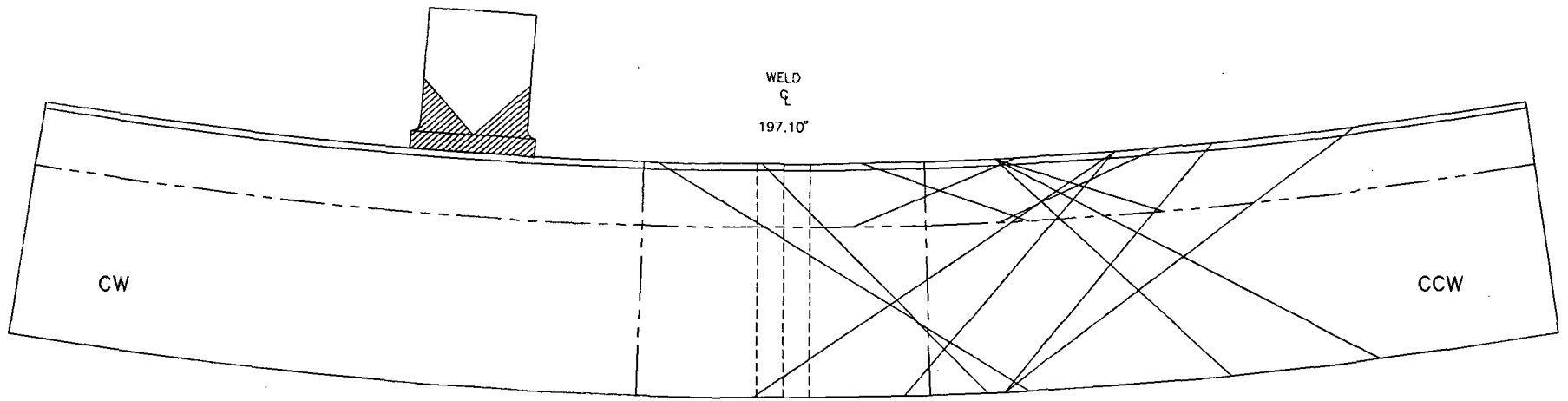
Nominal Clad T = 3/16"
 Nominal Base Metal T = 6 3/8"
 1 Degree = 2.19"

CH.	ANGLE	DIR.	MIN X	MAX X
1	0 W	0	191.16	203.04
2	0 W	90	191.16	203.04
3	70 UP	0	191.16	203.04
4	70 CW	90	186.58	203.04
5	70 DN	180	191.16	203.04
6	70 CCW	270	191.16	207.62
7	45 UP	0	191.16	203.04
8	45 CW	90	185.08	203.04
9	45 DN	180	191.16	203.04
10	45 CCW	270	191.16	209.11
11	60 UP	0	191.16	203.04
12	60 CW	90	181.10	203.04
13	60 DN	180	191.16	203.04
14	60 CCW	270	191.16	213.10
15	0 BM	0	191.16	213.10
16	0 BM	90	181.10	203.04

00255

DRAWING 00000 0768

R164
200727



Nominal Clad T = 3/16"
 Nominal Base Metal T = 6 3/8"
 1 Degree = 2.19"

00256

R1164
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0000 0790

GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	STM DYR BRKT AUTOMATED SCAN LIMIT	SCALE: NONE	DWG. V5ADYBKT	REV. 0
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GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

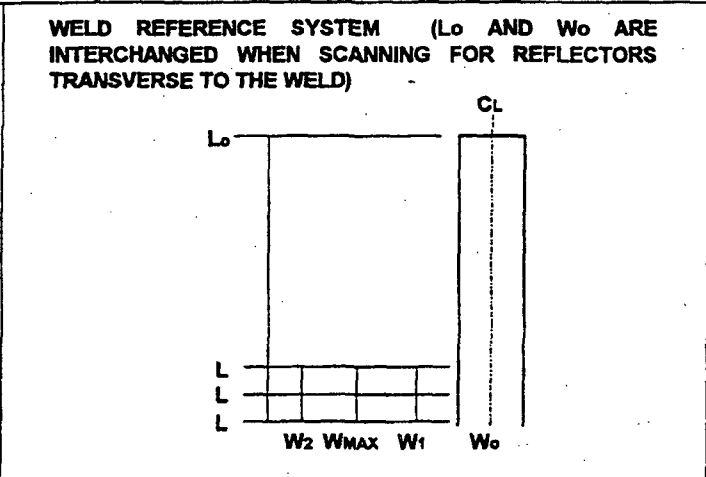
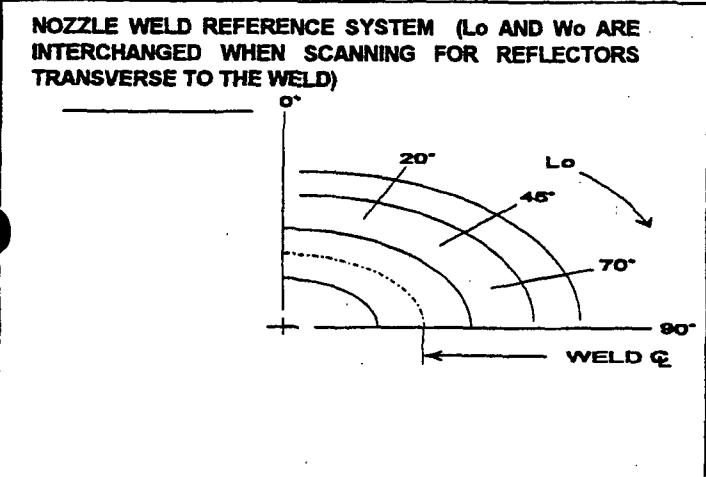
(MANUAL RPV VESSEL WELDS)

SITE: <u>Browns Ferry</u>	PROCEDURE NO.: <u>GE-UT-300</u>	REPORT NO.: <u>E-17</u>
UNIT: <u>3</u>	REVISION NO.: <u>6</u>	DATA SHEET NO.: <u>D-003</u>
PROJECT NO.: <u>00387</u>	FRR NO.: <u>004</u>	CALIBRATION SHEET NO.: <u>0° C-104</u> <u>45° N/A</u> <u>60° N/A</u>

SYSTEM: RPV EXAM SURFACE TEMP: 69 °F COUPLANT: ULTRAGEL II EXAM START: 1638
 WELD ID: V-5-A THERMOMETER S/N: L0281CL BATCH NO.: D93011 EXAM END: 1652

BEAM ANGLE: 0° 45° 60° OTHER N/A SURFACE CONDITION: SMOOTH GROUND OTHER N/A
 MATERIAL TYPE: CS SS OTHER N/A EXAM SURFACE: ID OD

Lo REFERENCE Toe of weld C-5-FLG 0° SCAN SENSITIVITY 48.6 dB
 W0 REFERENCE weld E 45° SCAN SENSITIVITY N/A dB
 60° SCAN SENSITIVITY N/A dB



L/R	% DAC (MAX)	W1 20% DAC	WF1 50% DAC	WM MAX DAC	WF2 50% DAC	W2 20% DAC	MP1 20% DAC	MPF1 50% DAC	MP MAX DAC	MPF2 50% DAC	MP2 20% DAC	CONTINUOUS (C) OR SPOT (S) TRANSVERSE (T) OR PARALLEL (P)	CW/CW TOP OR BOTTOM
NO RECORDABLE INDICATIONS, WELD EXAM													

REMARKS: EXAMINED FROM AN ELEVATION OF 599" TO 706"

<u>Walker</u> EXAMINED BY	<u>II</u> LEVEL	<u>10-18-93</u> DATE	<u>D. Wood</u> UTILITY REVIEW	<u>1/26/94</u> DATE
<u>Q. M. J.</u> GE REVIEWED BY		<u>12/1/93</u> DATE	<u>Albert</u> ANII REVIEW	<u>8/26/94</u> DATE

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GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

(MANUAL RPV 0° BASE MATERIAL)

SITE BFNP PROCEDURE NO. GE-UT-300 REPORT NO. E-17
 UNIT 3 REVISION 0 DATA SHEET NO. D-004
 PROJECT NO. 00387 FRR NO. 004 CALIBRATION SHEET 0° C-104

SYSTEM RPV SURFACE TEMP 69 °F COUPLANT ULTRAGEL II EXAM START 1554
 WELD ID V-5-A THERMOMETER S/N L0281CL BATCH NO. 093011 EXAM END 11037

SURFACE CONDITION: SMOOTH GROUND OTHER N/A
 MATERIAL TYPE: CS SS OTHER N/A EXAM SURFACE: ID OD
 L_o REFERENCE TOE OF C-5-FLG W_o REFERENCE WELD 0° SCANNING SENSITIVITY 33 dB

IND. No.	L	% LOSS BW	AMP	W1 50%	W1 100%	W2 100%	W2 50%	CW/CCW TOP/BOTTOM
* 1	70.7	100	N/A	N/A	7.0	10.5	N/A	CW
	77.0	100	N/A	N/A	7.0	10.5	N/A	CW

REMARKS EXAMINED FROM ELEVATION OF 599" TO 700" BASE METAL EXAM
* LOSS OF BACKWALL DUE TO STEAM DRYER LUG

EXAMINED BY Walker LEVEL II DATE 10-18-93
 UTILITY REVIEW 2 J. Woody DATE 1-26-94
 GE REVIEWED BY CE DATE 12/1/97
 ANII REVIEW Whitfield DATE 8/26/94



GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

(MANUAL RPV VESSEL WELDS)

SITE: BROWNS FERRY
UNIT: 3
PROJECT NO.: 00387

PROCEDURE NO.: GE-UT-300
REVISION NO.: 6
FRR NO.: 004

REPORT NO.: E-17
DATA SHEET NO.: D-005
CALIBRATION SHEET NO.: 0° N/A
45° C-105 60° N/A

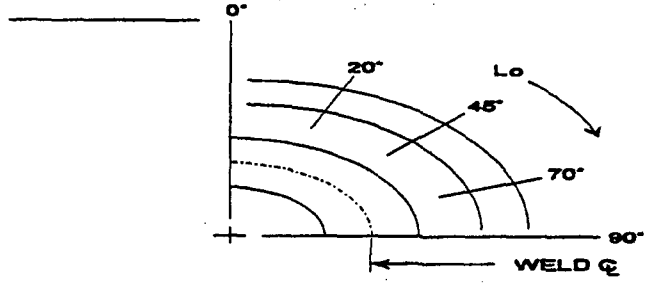
SYSTEM: RPV EXAM SURFACE TEMP: 69 °F COUPLANT: ULTRAGEL II EXAM START: 1655
WELD ID: V-5-A THERMOMETER S/N: L0281CL BATCH NO.: 093011 EXAM END: 1734

BEAM ANGLE: 0° 45° 60° OTHER N/A SURFACE CONDITION: SMOOTH GROUND OTHER N/A
MATERIAL TYPE: CS SS OTHER N/A EXAM SURFACE: ID OD

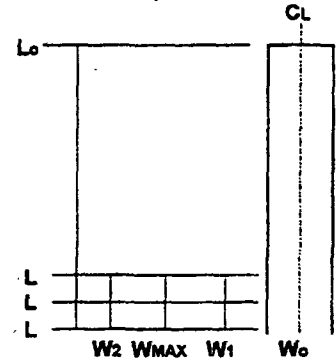
Lo REFERENCE TOE OF WELD C-5-FLG.
Wo REFERENCE WELD E

0° SCAN SENSITIVITY N/A dB
45° SCAN SENSITIVITY 57.2 dB
60° SCAN SENSITIVITY N/A dB

NOZZLE WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



L/R	% DAC (MAX)	W1 20% DAC	WF1 50% DAC	WM MAX DAC	WF2 50% DAC	W2 20% DAC	MP1 20% DAC	MPF1 50% DAC	MP MAX DAC	MPF2 50% DAC	MP2 20% DAC	CONTINUOUS (C) OR SPOT (S) TRANSVERSE (T) OR PARALLEL (P)	CW/CW TOP OR BOTTOM
<u>NO RECORDABLE INDICATIONS.</u>													

REMARKS: EXAMINED FROM AN ELEVATION OF 599" TO 706"

EXAMINED BY: [Signature] LEVEL: II DATE: 10-18-93
GE REVIEWED BY: [Signature] DATE: 12/1/93

UTILITY REVIEW: [Signature] DATE: 1-26-94
ANII REVIEW: [Signature] DATE: 8/26/94

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GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

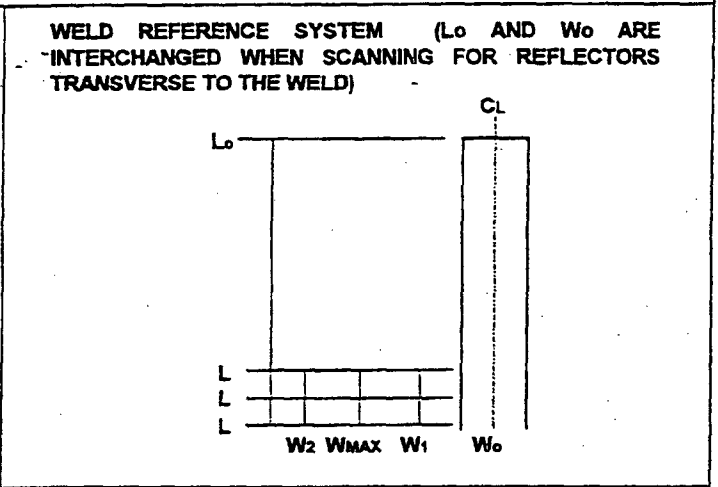
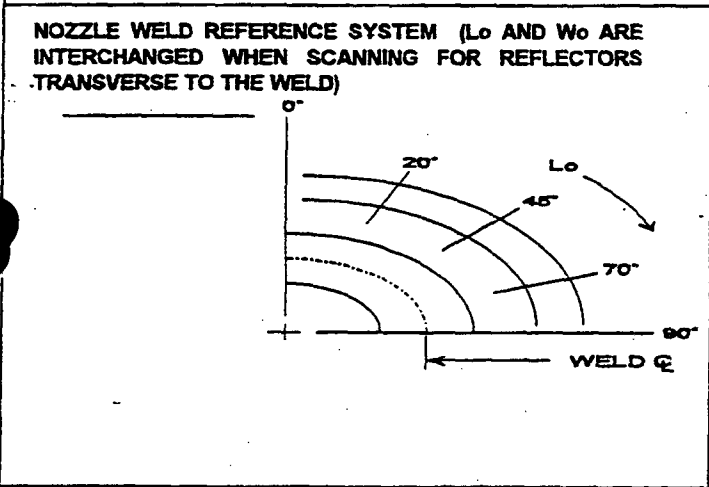
(MANUAL RPV VESSEL WELDS)

SITE: <u>BROWNS FERRY</u>	PROCEDURE NO.: <u>GE-UT-300</u>	REPORT NO.: <u>E-17</u>
UNIT: <u>3</u>	REVISION NO.: <u>6</u>	DATA SHEET NO.: <u>D-006</u>
PROJECT NO.: <u>00387</u>	FRR NO.: <u>004</u>	CALIBRATION SHEET NO.: <u>0° N/A</u> <u>45° N/A</u> <u>60° C-106</u>

SYSTEM: <u>RPV</u>	EXAM SURFACE TEMP: <u>69 °F</u>	COUPLANT: <u>Ultrage II</u>	EXAM START: <u>1536</u>
WELD ID: <u>V-5-A</u>	THERMOMETER S/N: <u>L02810L</u>	BATCH NO.: <u>093011</u>	EXAM END: <u>1553</u>

BEAM ANGLE: <input type="checkbox"/> 0° <input type="checkbox"/> 45° <input checked="" type="checkbox"/> 60° <input type="checkbox"/> OTHER <u>N/A</u>	SURFACE CONDITION: <input checked="" type="checkbox"/> SMOOTH <input type="checkbox"/> GROUND <input type="checkbox"/> OTHER <u>N/A</u>
MATERIAL TYPE: <input checked="" type="checkbox"/> CS <input type="checkbox"/> SS <input type="checkbox"/> OTHER <u>N/A</u>	EXAM SURFACE: <input type="checkbox"/> ID <input checked="" type="checkbox"/> OD

Lo REFERENCE <u>TOE OF WELD C-5-FLG.</u>	0° SCAN SENSITIVITY <u>N/A</u> dB
Wo REFERENCE <u>WELD C</u>	45° SCAN SENSITIVITY <u>N/A</u> dB
	60° SCAN SENSITIVITY <u>60</u> dB



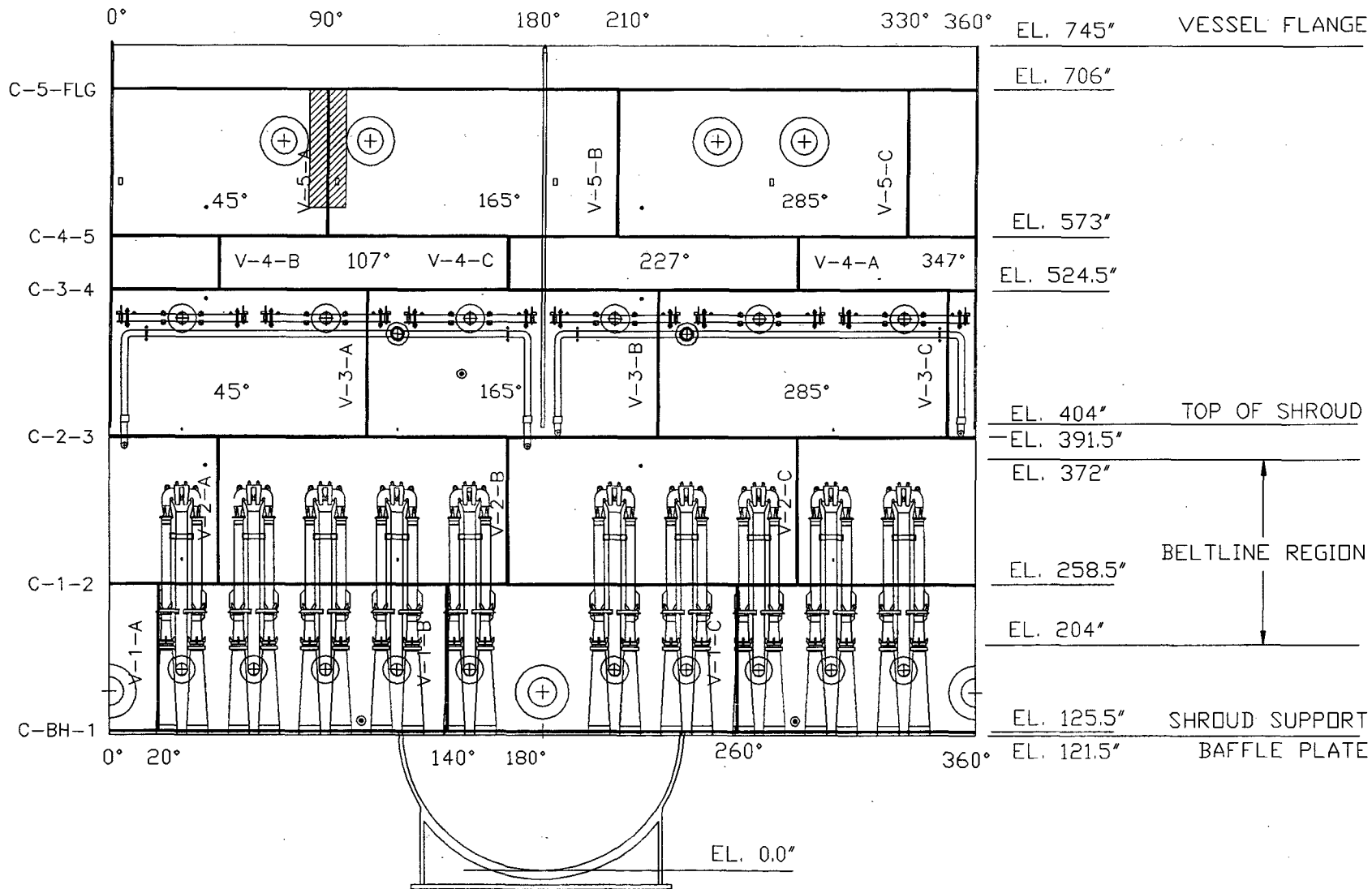
L/R	% DAC (MAX)	W1 20% DAC	WF1 50% DAC	WM MAX DAC	WF2 50% DAC	W2 20% DAC	MP1 20% DAC	MPP1 50% DAC	MP MAX DAC	MPF2 50% DAC	MP2 20% DAC	CONTINUOUS (C) OR SPOT (S) TRANSVERSE (T) OR PARALLEL (P)	CW/CCW TOP OR BOTTOM
NO RECORDABLE INDICATIONS.													

REMARKS: EXAMINED FROM AN ELEVATION OF 599" TO 706"

EXAMINED BY: <u>[Signature]</u> LEVEL: <u>TE</u> DATE: <u>10-18-93</u>	UTILITY REVIEW: <u>[Signature]</u> DATE: <u>1-26-94</u>
GE REVIEWED BY: <u>[Signature]</u> DATE: <u>12/1/93</u>	ANII REVIEW: <u>[Signature]</u> DATE: <u>8/26/94</u>

PAGE: 1 OF: 1

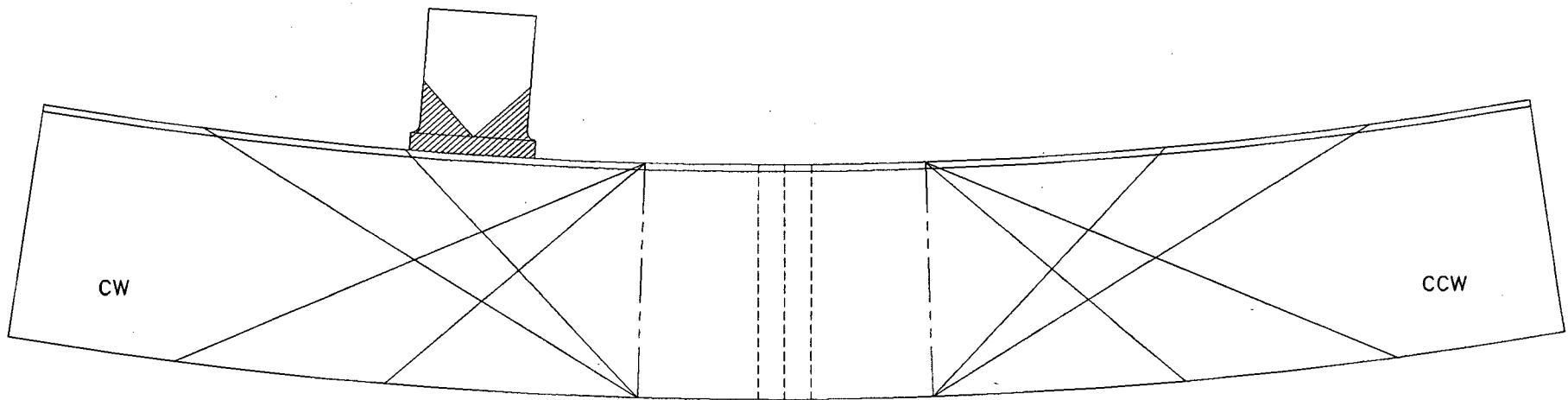
BROWNS FERRY UNIT-3 WELD LOCATIONS



0026126 OF 27

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R1169



207.00"

WELD
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Nominal Clad T = 3/16"
 Nominal Base Metal T = 6 3/8"

00262 27 OF 27

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R1169

GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	WELD V-5-A MANUAL PICKUP	SCALE: NONE	DWG. MANV-5-A	REV. 0
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