



GE Nuclear Energy

GERIS 2000 Examination
Summary Sheet

Project: TVA, Browns Ferry Nuclear Plant, Unit 3

System: Reactor Pressure Vessel

Weld ID: V-3-B

ASME Code Category: B-A

Calibration Sheets: C-004, C-115, C-116 and C-117

Supporting Data: Examination Data Sheets E-10-00 thru E-10-04, Indication Data Sheets 10-001 thru 10-006, Indication Evaluation Data Sheets, Screen Prints, Exam Patch Location Map, Exam Coverage Plots, GERIS 2000 Setup Records and Manual Examination Data Sheets D-032, D-033, D-039 and D-043.

Examination Summary

The ultrasonic examination of weld V-3-B 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 feedwater sparger, core spray downcomer and N11-B Nozzle at 220°. Areas that could not be examined using the GERIS 2000 and accessible from the outside surface were examined by the manual technique utilizing Procedure No. GE-UT-300, Rev. 6, FRR-004. The total examination coverage was calculated to be 99%.

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 indications with the 70°RL scans and the 45° and 60° shear wave scans that were evaluated and found to be acceptable per the referencing Code section.

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.

No indications were recorded with the manual technique.

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

GERIS Analyst: *CQ M2*

GE Reviewer: *Deusa Kimball*

LEVEL: *III*

DATE: *12/15/93*

LEVEL: *III*

DATE: *12-15-93*

UTILITY Review: *J. Woods*

ANII Review:

TITLE: *#*

DATE: *1/26/94*

TITLE: *Albert Lall*

DATE: *7/13/94*

R1164.



GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: V-3-B
Cal. ID: C-004

Exam Data Sheet No.: E-10-01
Patch ID: BF-057
Ind. Data Sheet Series: 10-XXX

[illegible]

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number

Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: (Signature)

Level: III Date: 12/12/93

Reviewed By: W. L. D.

Level: II Date: 12/13/93



GERIS 2000 Examination Data Sheet

Cal. ID: C-004

Ind. Data Sheet Series: 10-XXX

Comments: No exam channels 1 and 6 due to scan limitations.

Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Level: II Date: 12/13/93



GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3

Weld ID: V-3-B

Cal. ID: C-004

Exam Data Sheet No.: E-10-04**Patch ID:** BF-056R

Ind. Data Sheet Series: 10-XXX

[illegible]

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number

Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: CEM

Level: III

Date: 12/12/93

Reviewed By:

Level: II

Date: 12/13/93



GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3

Weld ID: V-3-B

Cal. ID: C-004

Exam Data Sheet No.: E-10-01

Patch ID: BF-057**Ind. Data Sheet No.: 10-001**

Indication: 10-001

Channel: 3

Angle: 70

Direction: 0

[illegible]

Comments: No apparent tip signals.

Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst:

Analyst: CL Mas

Level:

Level: III

Date:

Date: 12/12/93

Reviewed By:

Reviewed By: Her C. Smith

Level:

Level: II

Date:

Date: 12/13/93



GERIS 2000 Indication Data Sheet



GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: V-3-B
Patch: BF-054

Exam Data Sheet No.: E-10-02
Ind. Data Sheet No.: 10-002
Indication: 10-002

Flaw Thruwall Dimension = 0.32
Flaw Length "I" = 0.50
Separation with clad "S" = 3.03
Surface Separation "S" = 2.84

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	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	4.04	4.68 Y
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	Allowed
			4.04	4.68

a = 0.160
a/l value = 0.320
Y = 1.000

Flaw is Subsurface

Allowed a/t = 4.68%
a/t = 2.51%

Comments:



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GERIS 2000 Indication Data Sheet

Exam Data Sheet No.: E-10-03**Patch ID:** BF-055**Ind. Data Sheet No.: 10-003**

Direction: 0

[illegible]

Comments: Thruwall size was determined by the SPOT technique.

S = 3.125 w/clad

CF M

y: Gen C. D. D.

14

Date: 12/12/93

Level:

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Date: 12/13/93



GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: V-3-B
Patch: BF-055

Exam Data Sheet No.: E-10-03
Ind. Data Sheet No.: 10-003
Indication: 10-003

Flaw Thruwall Dimension = 0.20
Flaw Length "I" = 1.25
Separation with clad "S" = 3.12
Surface Separation "S" = 2.93

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	2.12	2.38 Y
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
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	Allowed
			2.12	2.38

a = 0.099
a/l value = 0.079
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.38%
a/t = 1.55%

Comments:



GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3

Weld ID: V-3-B

Cal. ID: C-004

Exam Data Sheet No.: E-10-03

Patch ID: BF-055

Ind. Data Sheet No.: 10-004

Indication: 10-004

Channel: 9

Angle: 45

Direction: 180

[illegible]

Comments: No apparent tip signals.

Recorded @ less than ASME required DAC level for reference only.

Analyst:

Analyst: CQ MW

Level:

Level: III Date: 12/12/93

Reviewed By:

Reviewed By: Sen C. Aird

Level:

Level: II Date: 12/13/93



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GERIS 2000 Indication Data Sheet

Ind. Data Sheet No.: 10-005

Direction: 180

[illegible]

Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst:

Analyst: CG MS

Level:

Level: III Date: 12/12/93

Reviewed By:

Reviewed By: John C. Smith

Level:

Level: II Date: 12/13/93



GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3

Weld ID: V-3-B

Cal. ID: C-004

Exam Data Sheet No.: E-10-03

Patch ID: BF-055

Ind. Data Sheet No.: 10-006

Indication: 10-006

Channel: 13

Angle: 60

Direction: 180

[illegible]

Comments: No apparent tip signals.

OD surface, evaluated to notch sensitivity.

.54dB above notch response.

TW = 0.127

$$L = 0.75$$
$$S = 0$$
Analyst:

Analyst: CE MS

Level:

Level: III Date: 12/12/93

Reviewed By:

Reviewed By: Gen C. Smith

Level: II

Level: II Date: 12/13/93



GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: V-3-B
Patch: BF-055

Exam Data Sheet No.: E-10-03
Ind. Data Sheet No.: 10-006
Indication: 10-006

Flaw Thruwall Dimension = 0.127
Flaw Length "l" = 0.75
Separation with clad "S" = N/A
Surface Separation "S" = 0.00

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	2.62	3.05 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	Allowed
			2.62	0.00

a = 0.127
a/l value = 0.169
Y = 0.000

Flaw is Surface

Allowed a/t = 2.62%
a/t = 1.99%

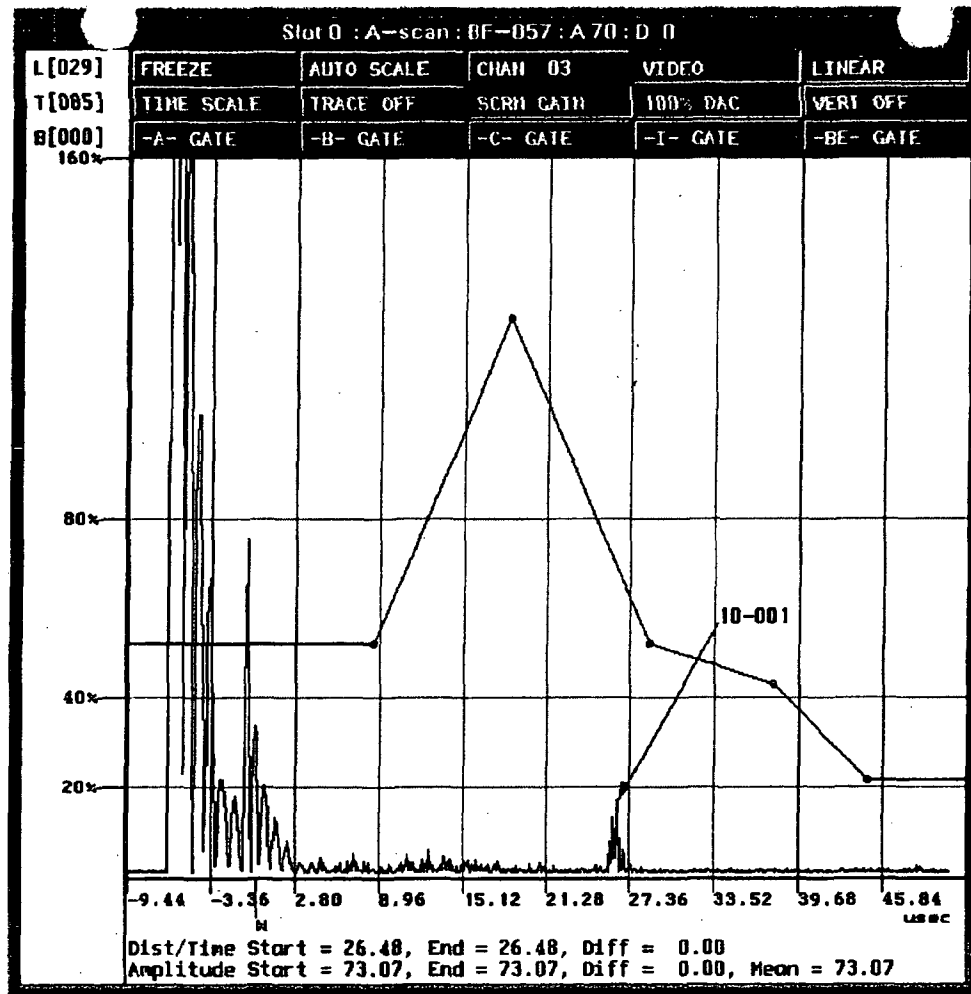
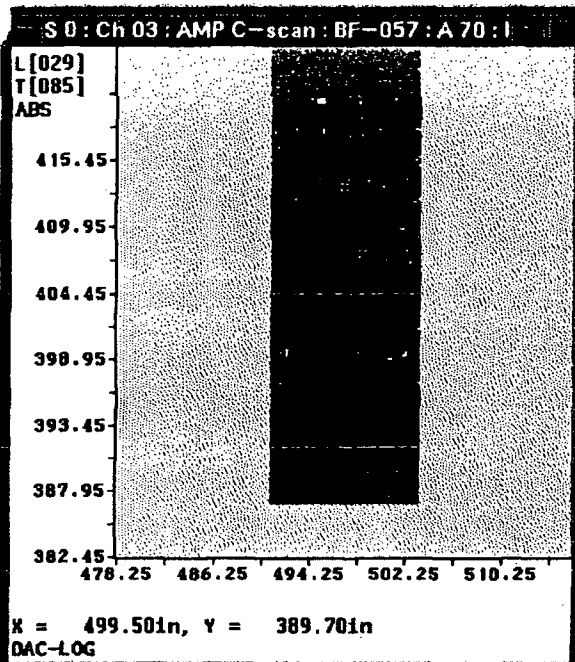
Comments: Evaluated to notch response, assigned thruwall dimension = 2% T.

S 0 : Scale

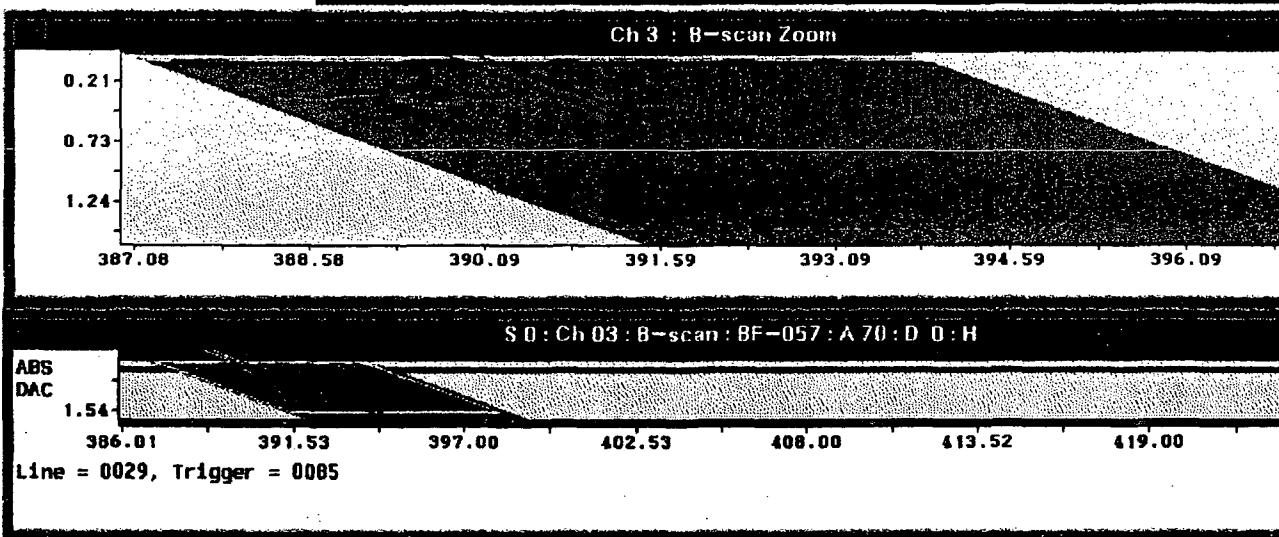
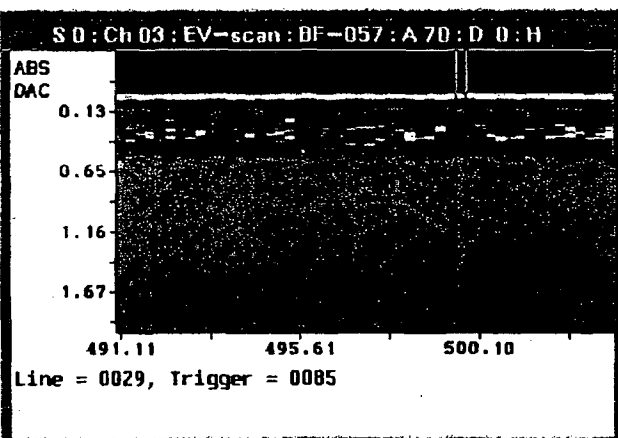
32.3
36.6
41.0
45.3
49.7
54.0
58.4
62.7
67.1
71.4
75.8
80.1
84.5
88.8
93.2

DAC

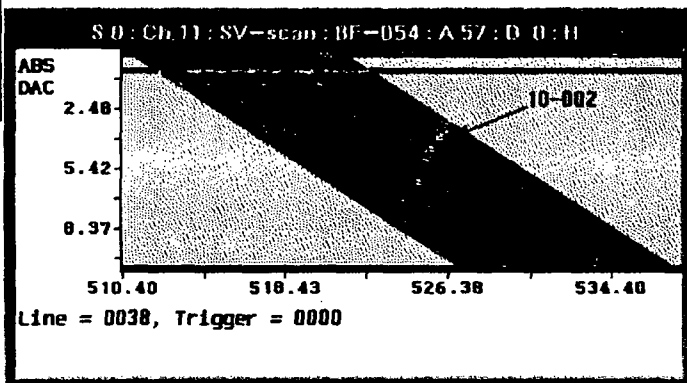
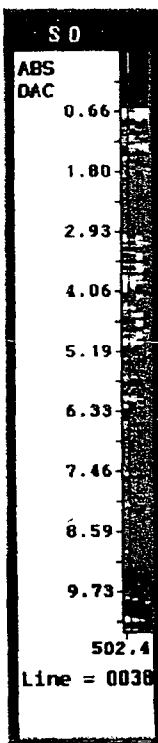
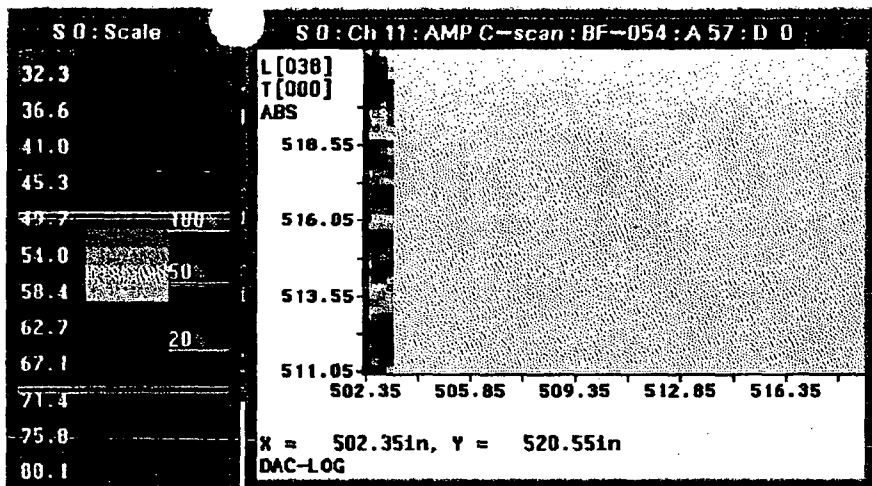
Lower Te
x3/10-001



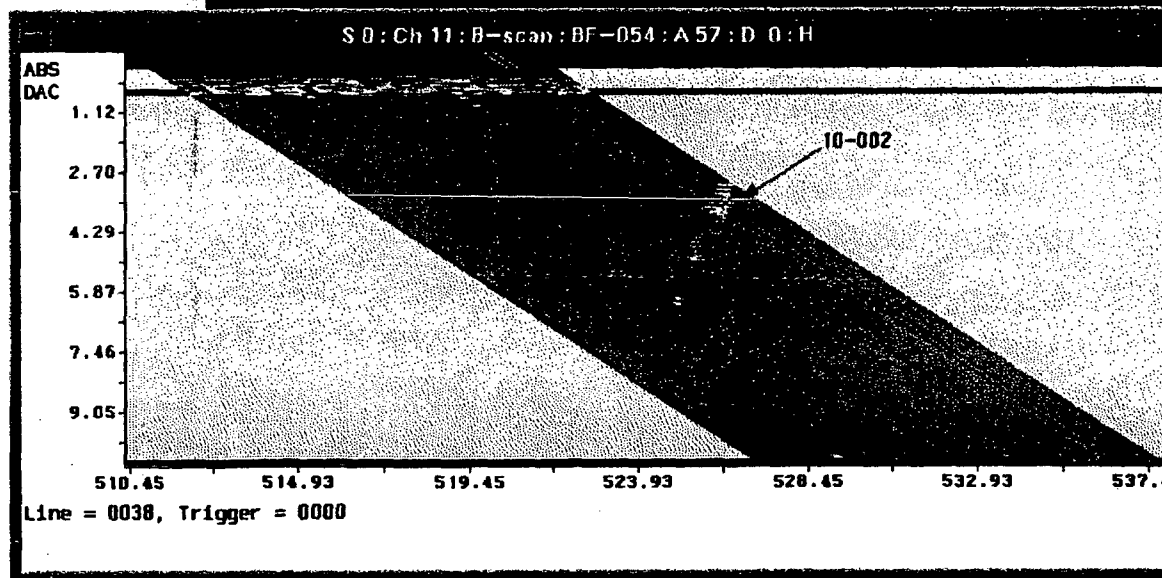
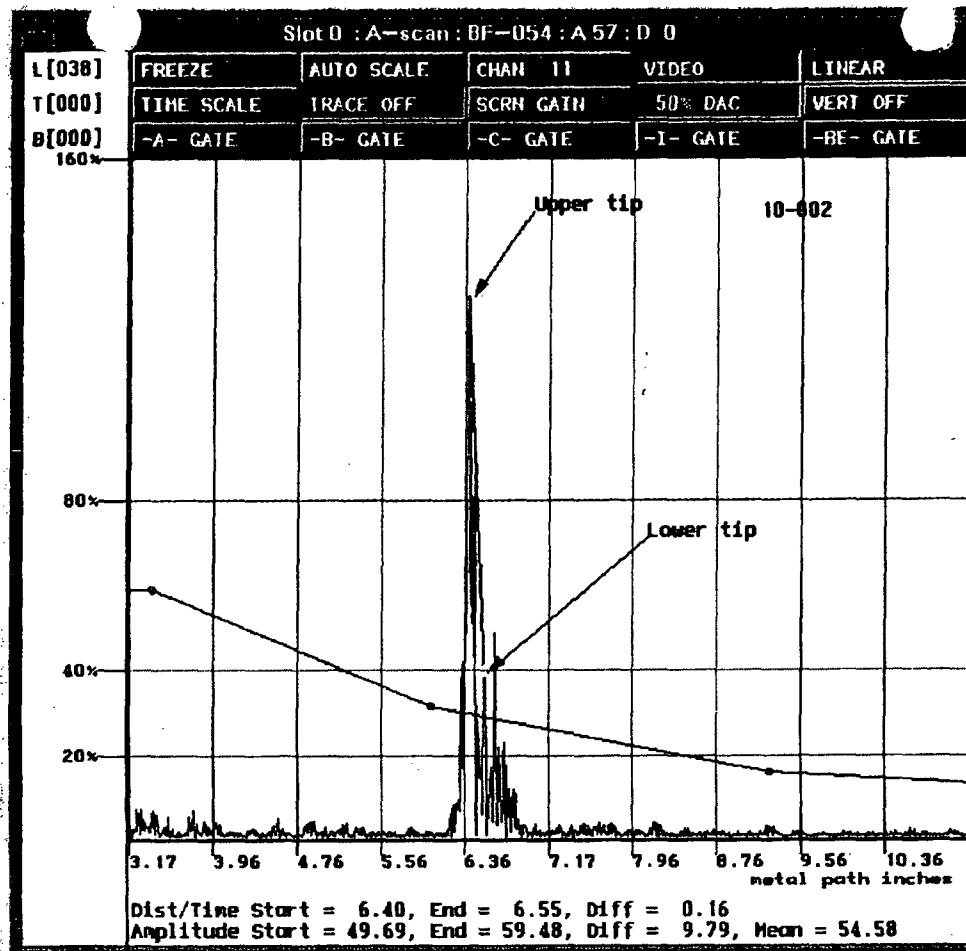
00105



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21164

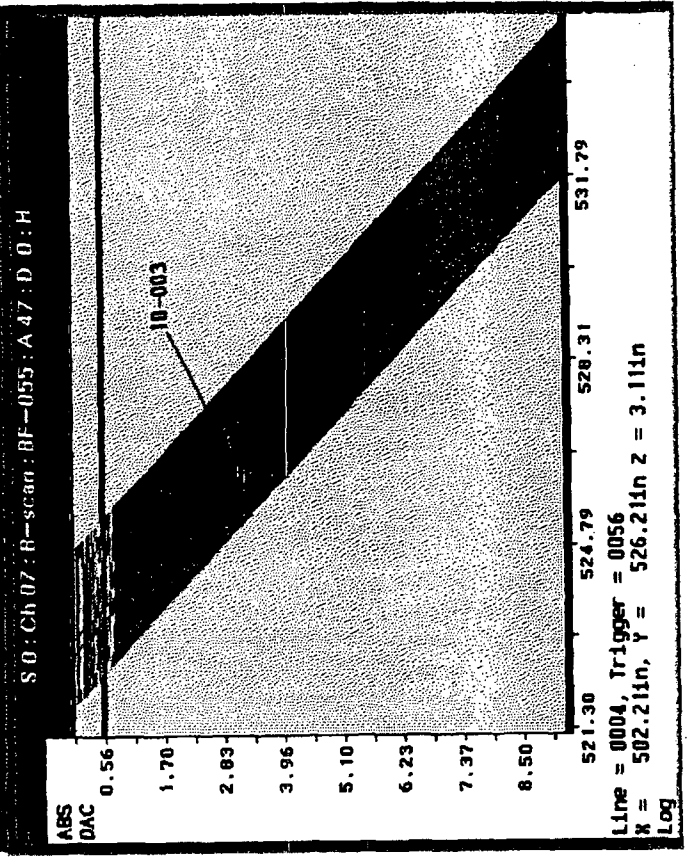
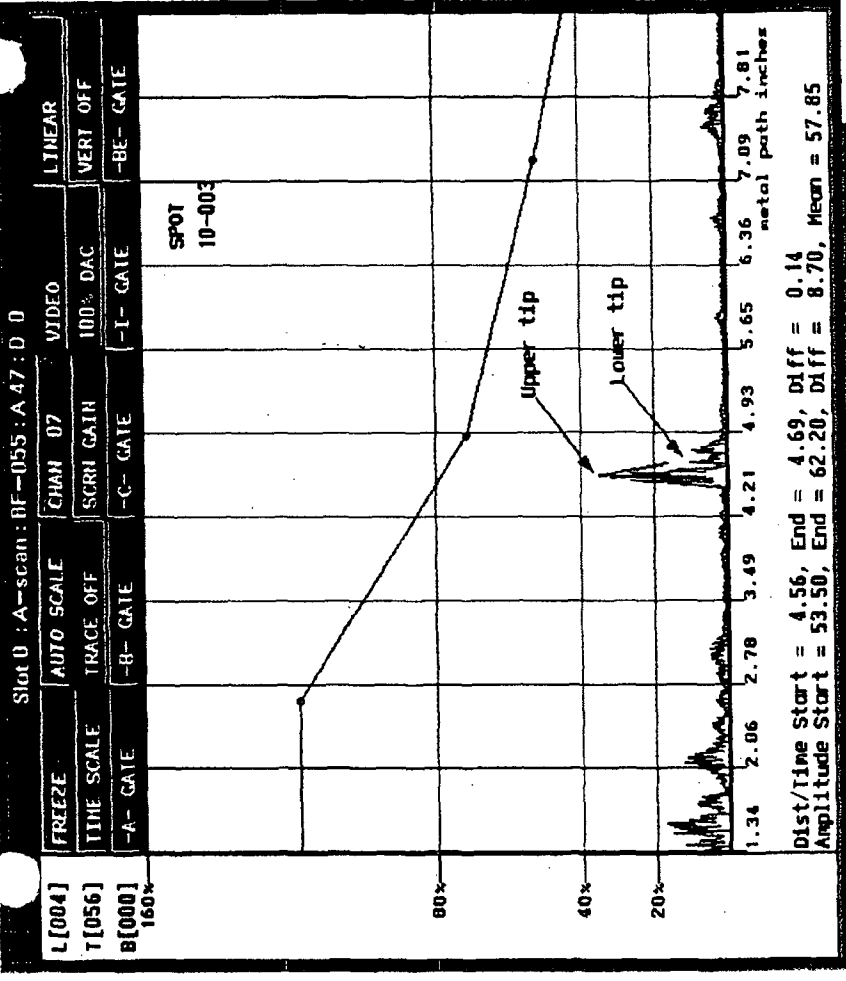
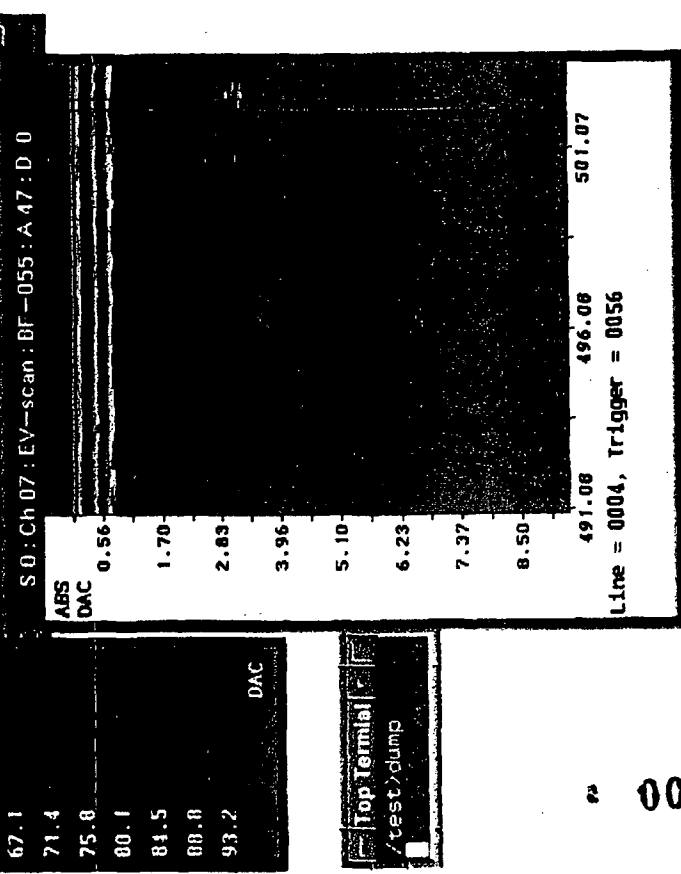
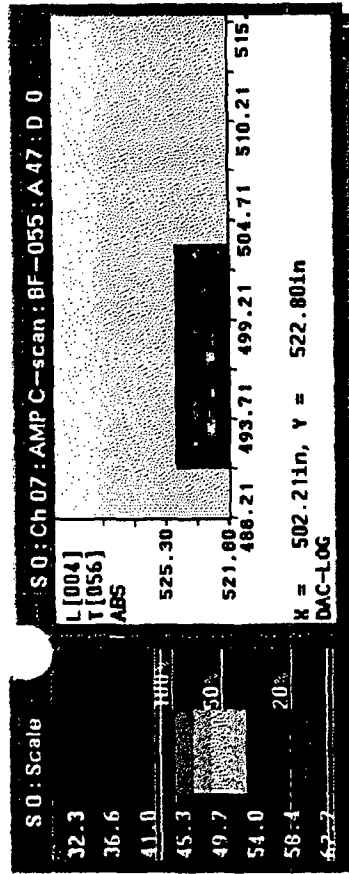


Top Terminal
03/10-002

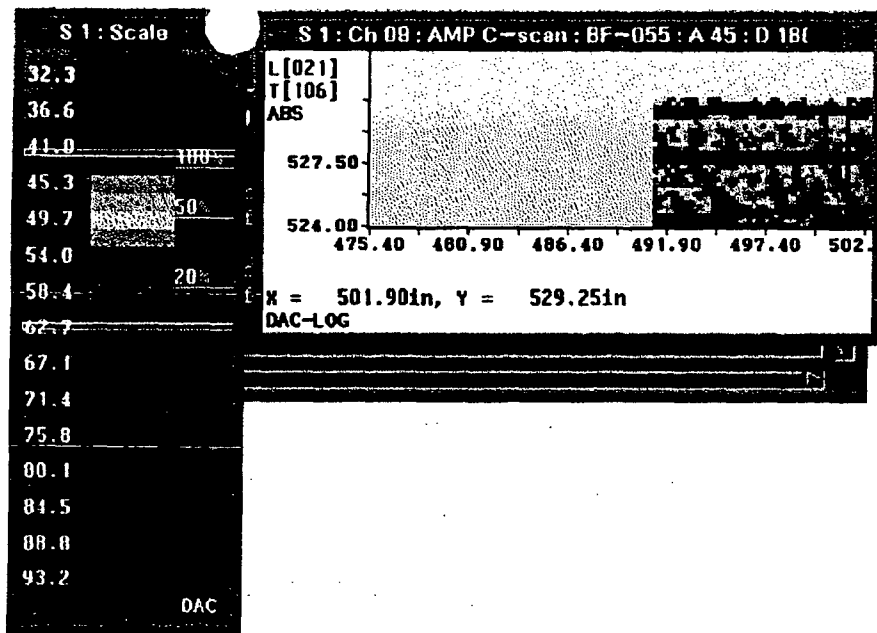


21104
170-30
00106

R1164
18 OF 30

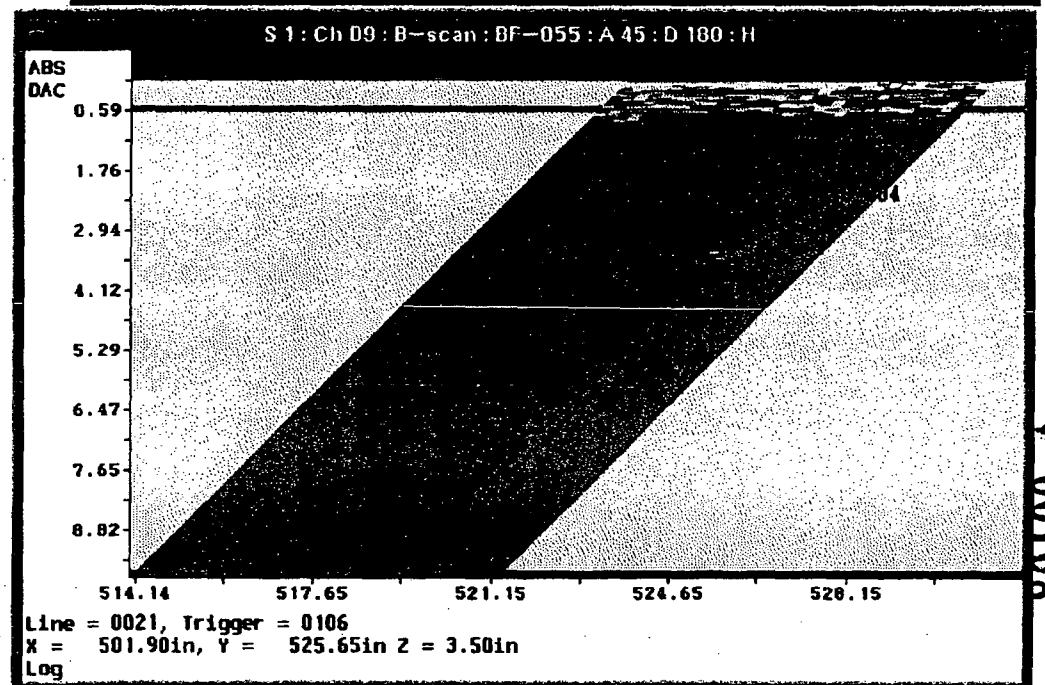
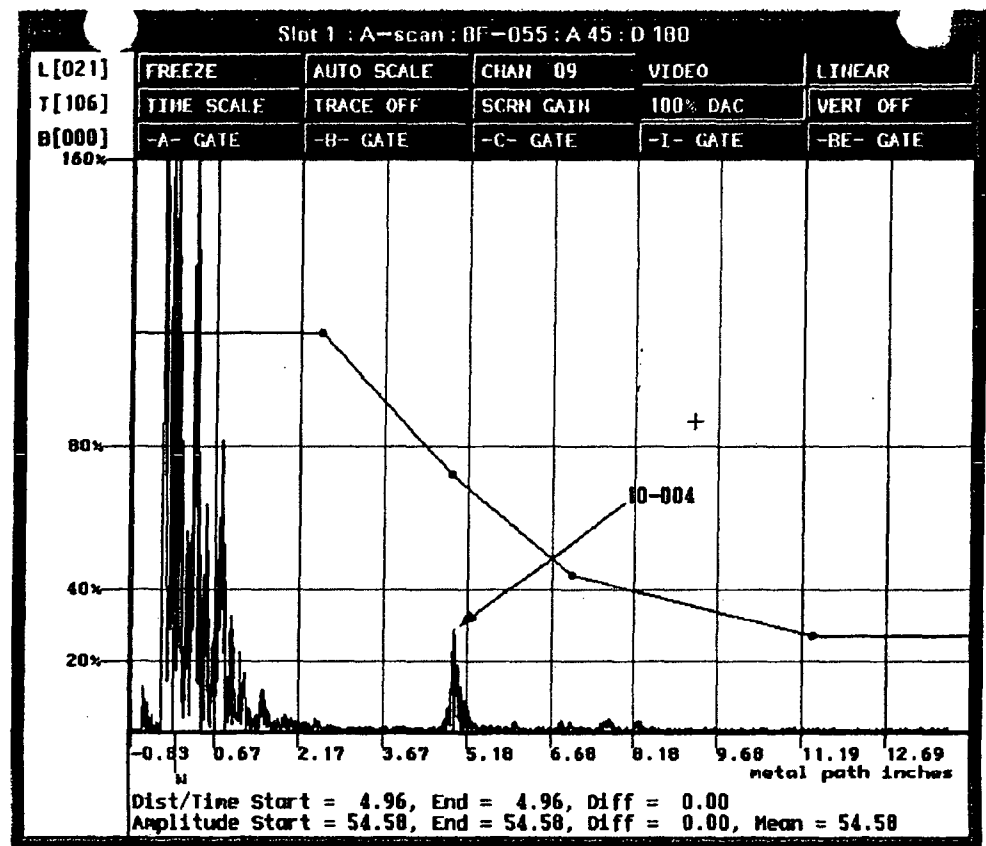
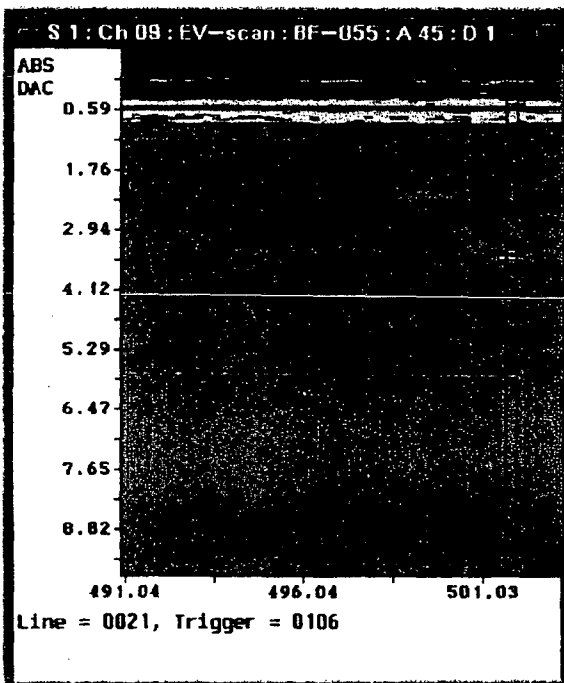


00107

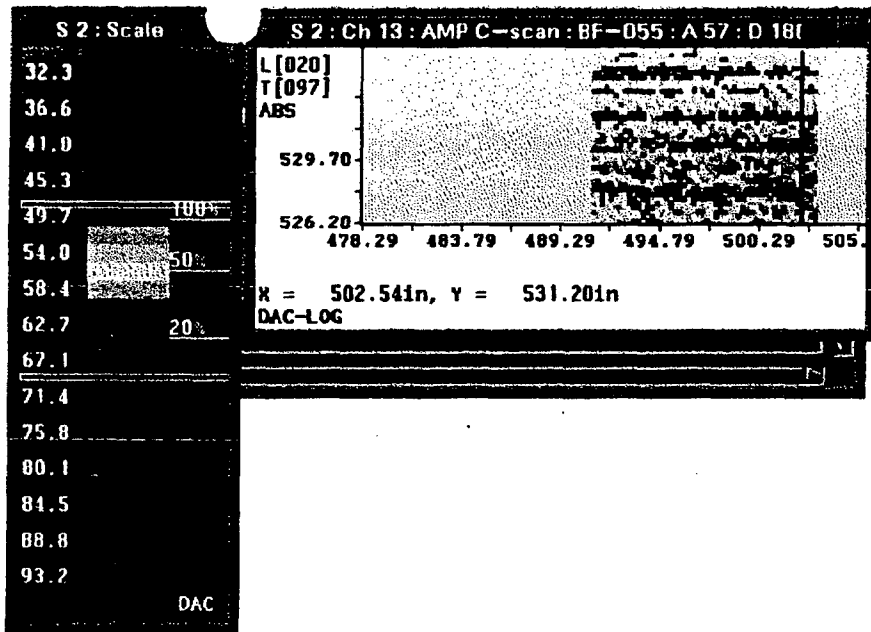


Top Terminal

004

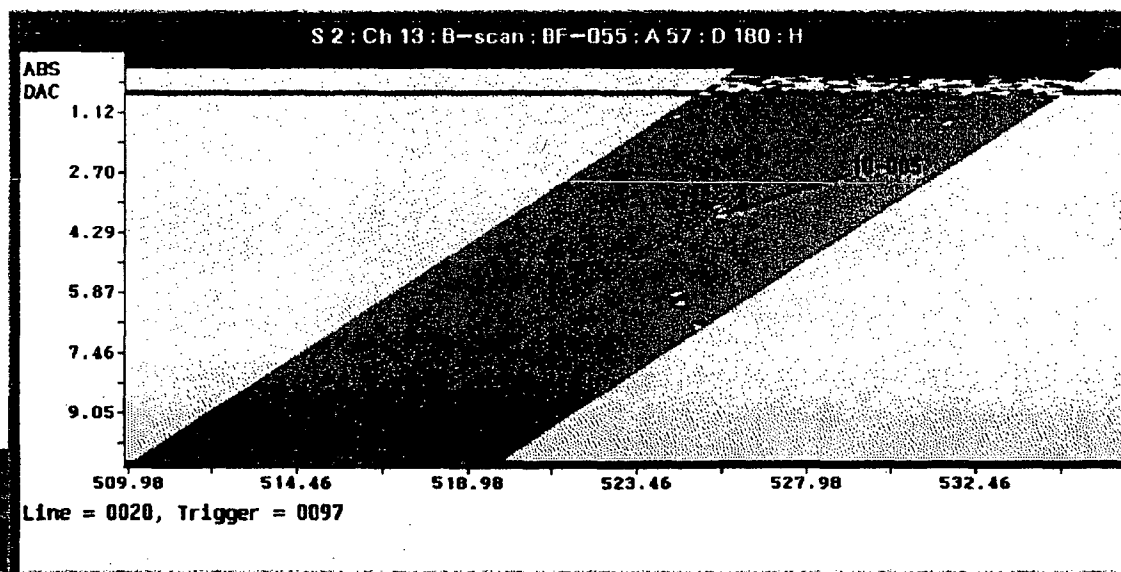
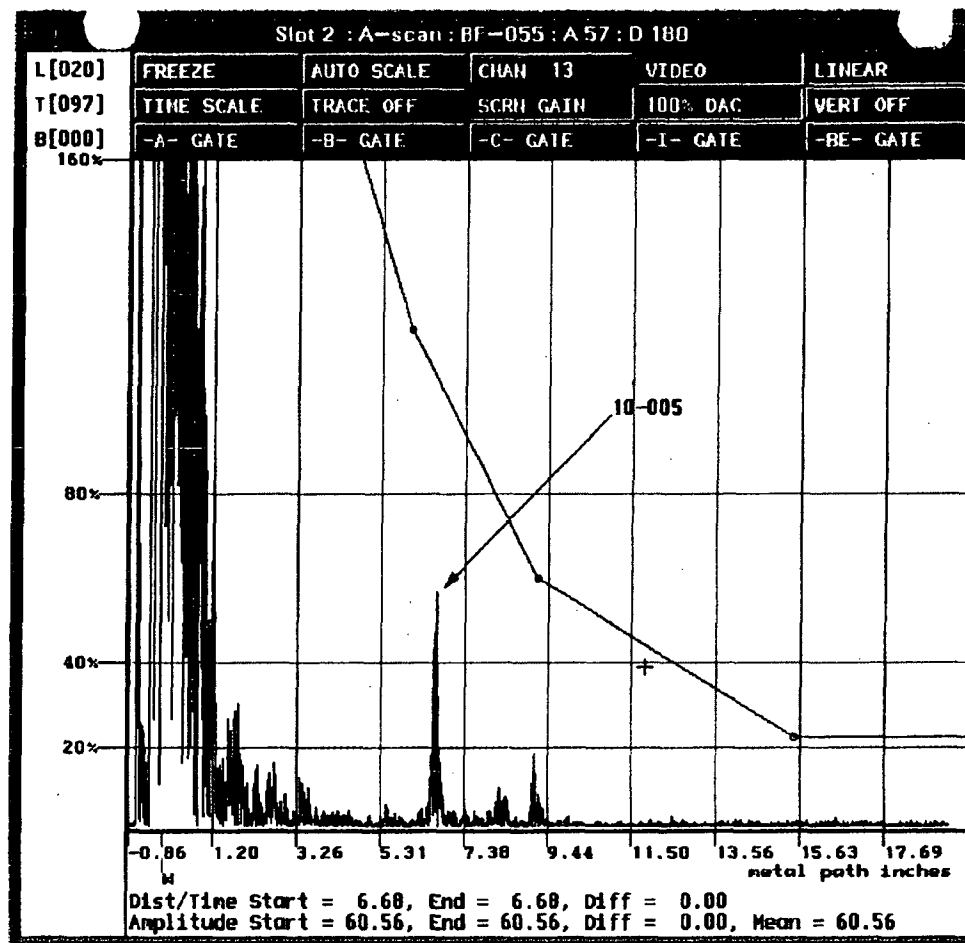
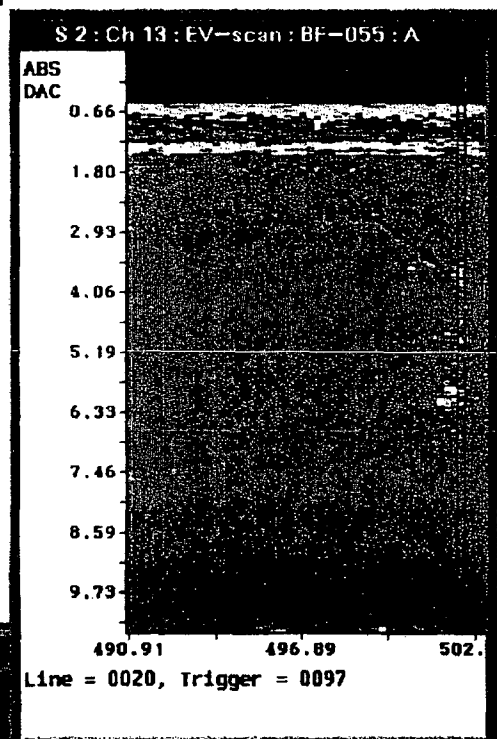


19 of 30
R1164
00108



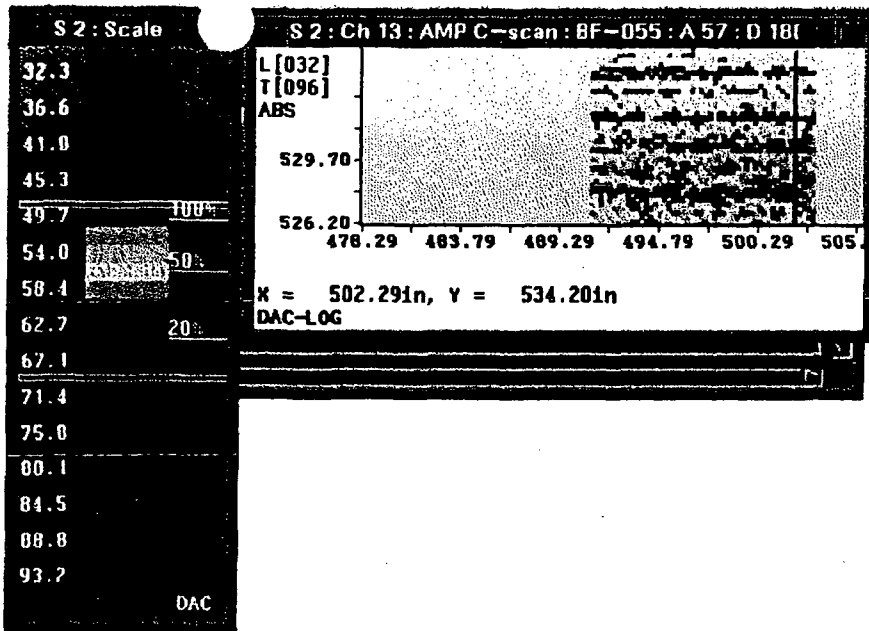
Top Terminal
or 3/10-005

60100

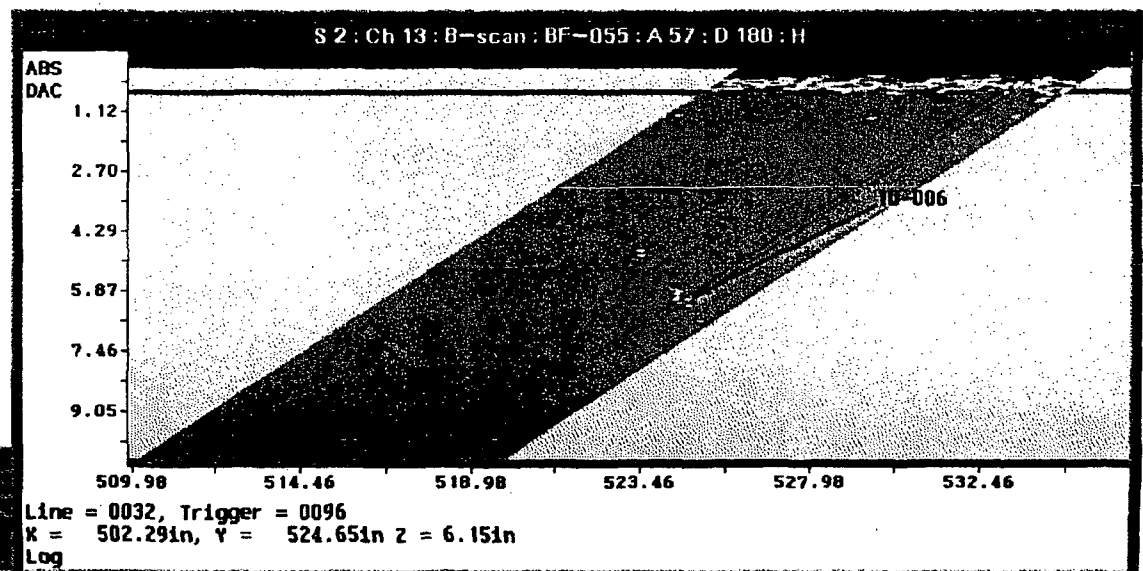
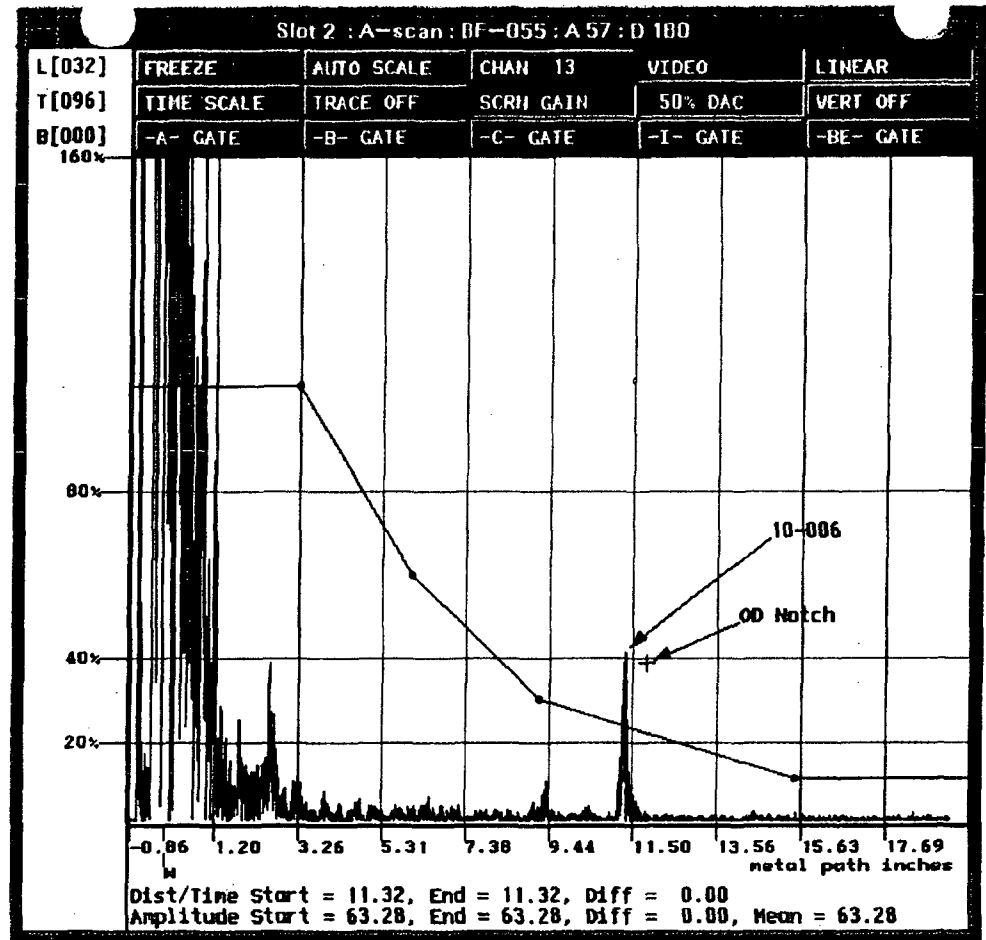
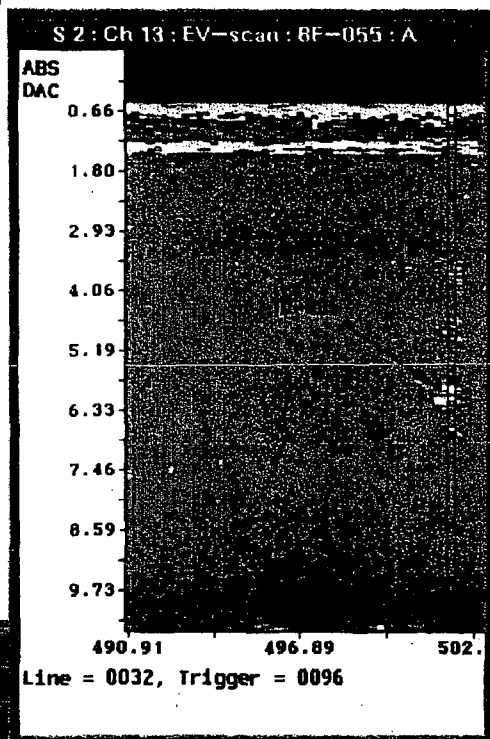


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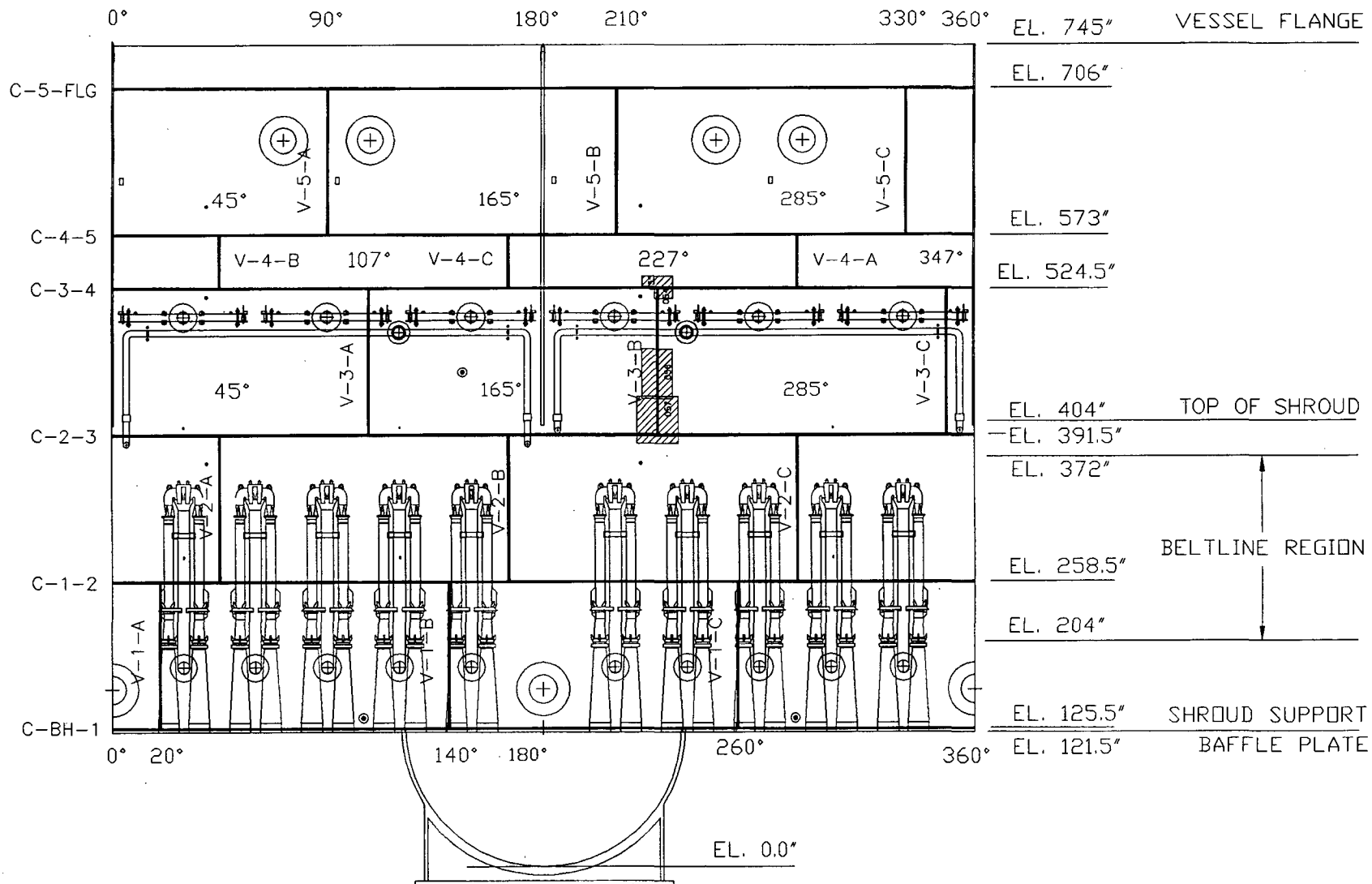
Top Terminal
or 3/10-006



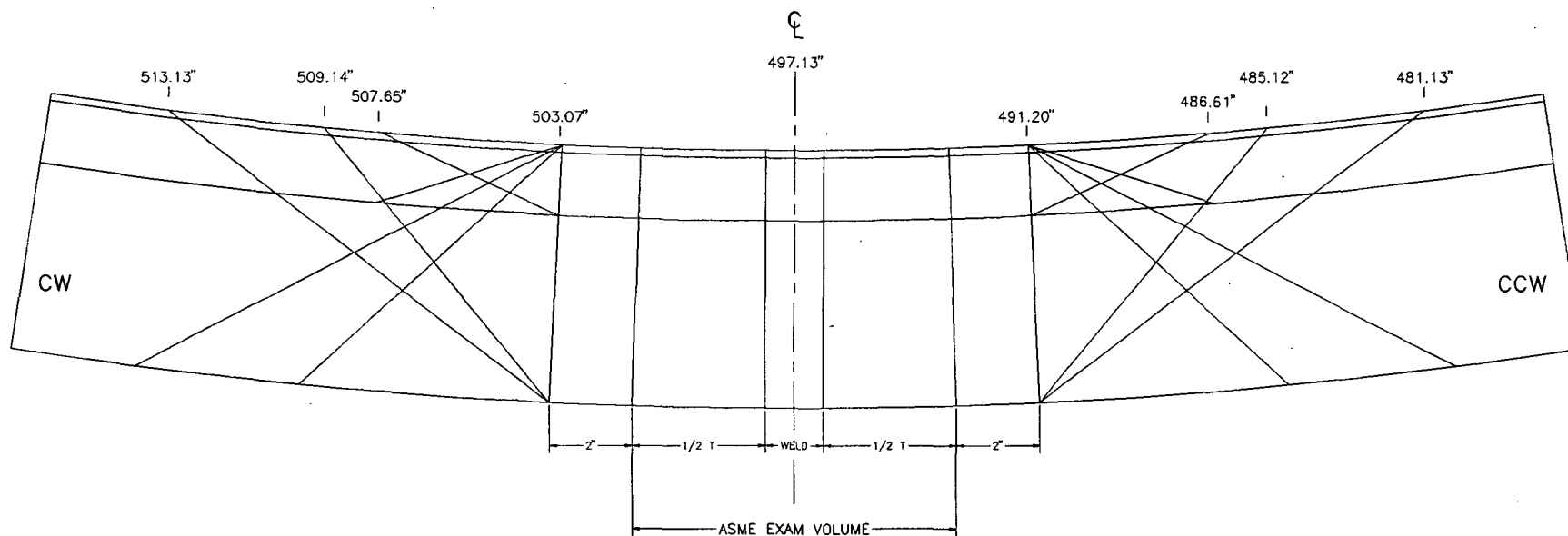
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R11154

00111

BROWNS FERRY UNIT-3 WELD LOCATIONS



21164
220430



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

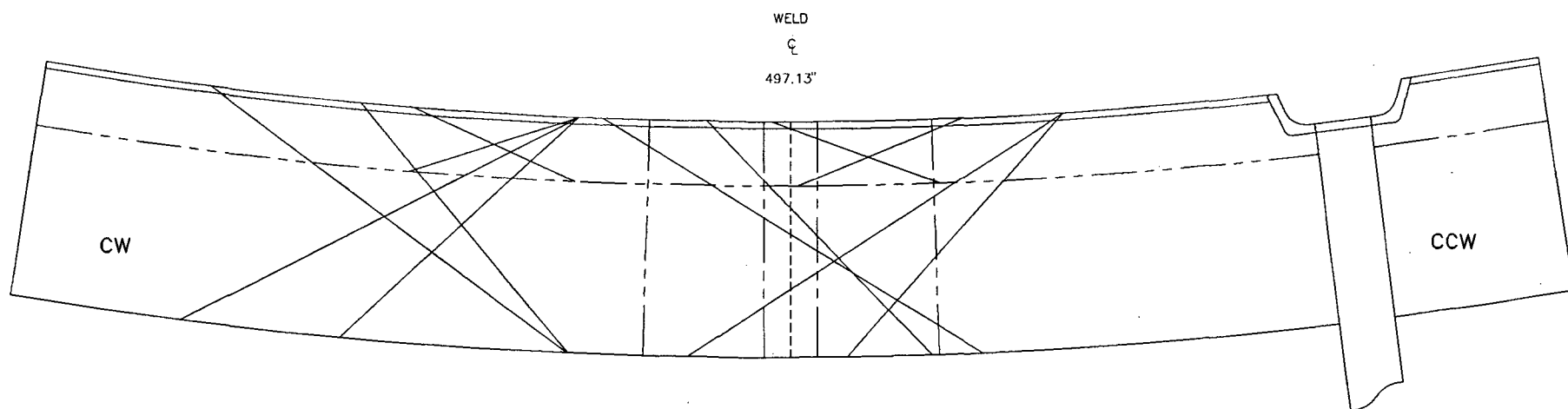
CH.	ANGLE	DIR.	MIN X	MAX X
1	0 W	0	491.20	503.07
2	0 W	90	491.20	503.07
3	70 UP	0	491.20	503.07
4	70 CW	90	486.61	503.07
5	70 DN	180	491.20	503.07
6	70 CCW	270	491.20	507.65
7	45 UP	0	491.20	503.07
8	45 CW	90	485.12	503.07
9	45 DN	180	491.20	503.07
10	45 CCW	270	491.20	509.14
11	60 UP	0	491.20	503.07
12	60 CW	90	481.13	503.07
13	60 DN	180	491.20	503.07
14	60 CCW	270	491.20	513.13
15	0 BM	0	491.20	513.13
16	0 BM	90	481.13	503.07

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 R1164

0000000000

R1164

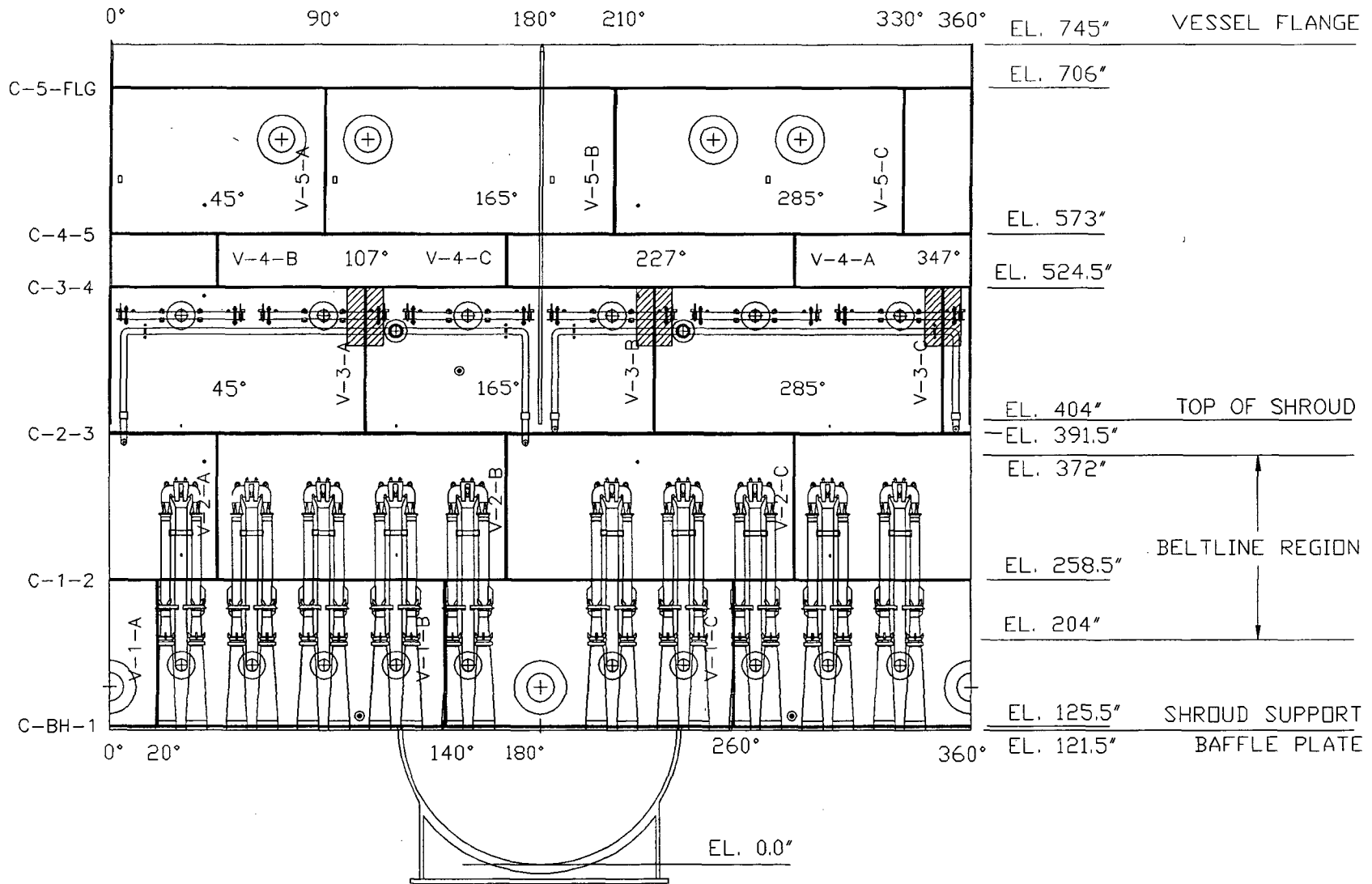
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Nominal Clad T = 3/16"
Nominal Base Metal T = 6 3/8"
1 Degree = 2.19"

00113

BROWNS FERRY UNIT-3 WELD LOCATIONS

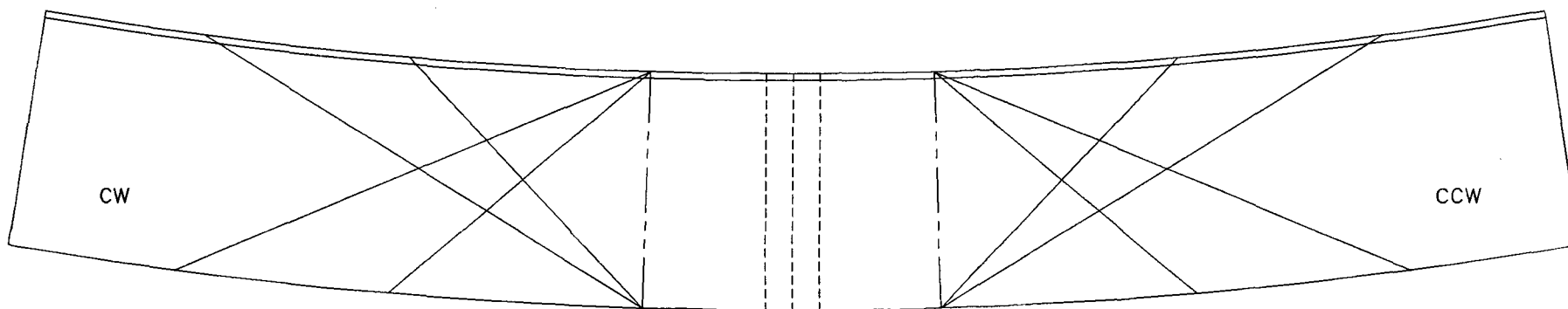


00114

R1164
25 OF 30

6609 0000 0009

R1164
26 OF 30



522.10"

WELD
CL

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

GE NUCLEAR ENERGY

BROWNS FERRY UNIT 3

WELD V-3-B MANUAL PICKUP

SCALE: NONE

DWG. MANV-3-B

REV. 0

00115

R1164



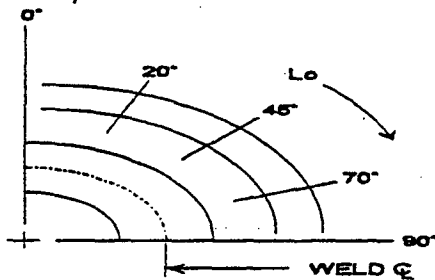
GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

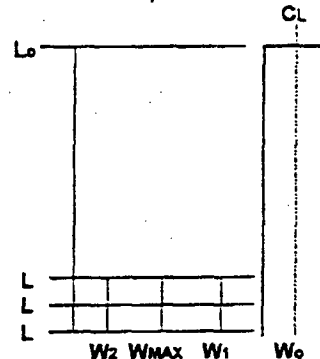
(MANUAL RPV VESSEL WELDS)

SITE: BROWNS FERRYPROCEDURE NO.: GE-UT-300REPORT NO.: E-10UNIT: 3REVISION NO.: 6DATA SHEET NO.: D-032PROJECT NO.: 00387FRR NO.: 004CALIBRATION SHEET NO.: 0° C-11545° N/A 60° N/ASYSTEM: RPV EXAM SURFACE TEMP: 73 °F COUPLANT: Ultrasel II EXAM START: 1224WELD ID: V-3-B THERMOMETER S/N: L0250CL BATCH NO.: 093011 EXAM END: 1228BEAM ANGLE: ☒ 0° ☐ 45° ☐ 60° ☐ OTHER N/ASURFACE CONDITION: ☒ SMOOTH ☐ GROUND ☐ OTHER N/AMATERIAL TYPE: ☒ CS ☐ SS ☐ OTHER N/AEXAM SURFACE: ☐ ID ☒ ODLo REFERENCE TDE OF WELD & C-3-40° SCAN SENSITIVITY 61 dBWo REFERENCE WELD &45° SCAN SENSITIVITY N/A dB60° 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)



LR	% 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 471.5" TO 524.5" Area Below
Elevation 471.5" was not examined due to the proximity of an
insulation ring and non-removable insulation.Examined by C. M. S. LEVEL II DATE 11-4-93EXAMINED BY C. M. S. DATE 12/1/93UTILITY REVIEW 282000 DATE 12/15/93ANII REVIEW Albert T. Hall DATE 8/25/94PAGE: 1 OF: 1

FORM UT-14 REV. 8

00116

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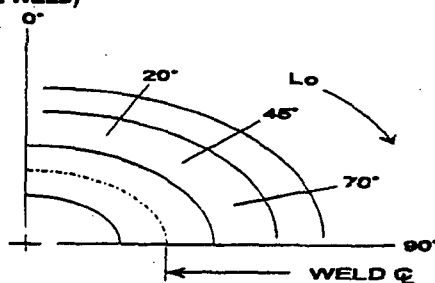
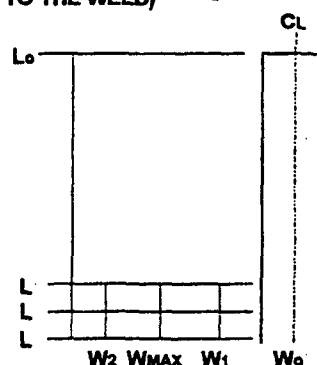
R1164



GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

(MANUAL RPV VESSEL WELDS)

SITE: BROWNS FERRYPROCEDURE NO.: GE-UT-300REPORT NO.: E-10UNIT: 3REVISION NO.: 6DATA SHEET NO.: D-033PROJECT NO.: 00387FRR NO.: 004CALIBRATION SHEET NO.: 0° C-11545° N/A 60° N/ASYSTEM: RPV EXAM SURFACE TEMP: 73 °F COUPLANT: Ultrage1 II EXAM START: 1219WELD ID: V-3-B THERMOMETER S/N: L0250CL BATCH NO.: D93011 EXAM END: 1224BEAM ANGLE: ☒ 0° ☐ 45° ☐ 60° ☐ OTHER N/ASURFACE CONDITION: ☒ SMOOTH ☐ GROUND ☐ OTHER N/AMATERIAL TYPE: ☒ CS ☐ SS ☐ OTHER N/AEXAM SURFACE: ☐ ID ☒ ODL₀ REFERENCE TOE OF WELD C-3-40° SCAN SENSITIVITY 61 dBW₀ REFERENCE WELD C45° SCAN SENSITIVITY N/A dB60° SCAN SENSITIVITY N/A dBNOZZLE WELD REFERENCE SYSTEM (L₀ AND W₀ ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)WELD REFERENCE SYSTEM (L₀ AND W₀ ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)

L/R	% DAC (MAX)	W ₁ 20% DAC	WF ₁ 50% DAC	WM MAX DAC	WF ₂ 50% DAC	W ₂ 20% DAC	MP ₁ 20% DAC	MPF ₁ 50% DAC	MP MAX DAC	MPF ₂ 50% DAC	MP ₂ 20% DAC	CONTINUOUS (C) OR SPOT (S) TRANSVERSE (T) OR PARALLEL (P)	CW/CCW TOP OR BOTTOM

NO RECORDABLE INDICATIONS, BASE METAL.

REMARKS: EXAMINED FROM AN ELEVATION OF 471.5" TO 524.5" Area Below Elevation 471.5" was not examined due to the proximity of an insulation ring and non-removable insulation.

EXAMINED BY Robert C. Carter II LEVEL II DATE 11-4-93UTILITY REVIEW 212 Woody DATE 12/15/93GE REVIEWED BY CE M/A DATE 12/1/93ANII REVIEW Robert C. Carter II DATE 8/25/94PAGE: 1 OF: 1

FORM UT-14 REV. 5

00117

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R1164



GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

(MANUAL RPV VESSEL WELDS)

SITE: Browns Ferry

PROCEDURE NO.: GE-UT-300

REPORT NO.: E-10

UNIT: 3

REVISION NO.: 6

DATA SHEET NO.: D-039

PROJECT NO.: 00387

FRR NO.: 004

CALIBRATION SHEET NO.: 0° N/A

45° C116 60° N/A

SYSTEM: RPV EXAM SURFACE TEMP: 73 °F COUPLANT: Ultraseal II EXAM START: 1235

WELD ID: V-3-B THERMOMETER S/N: L0250CL BATCH NO.: 093011 EXAM END: 1241

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

L₀ REFERENCE TOE OF WELD C-3-4

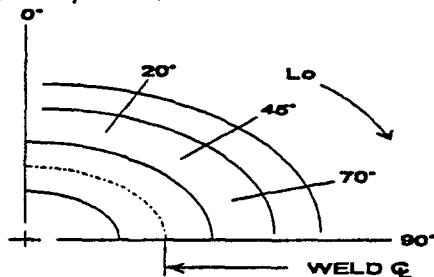
0° SCAN SENSITIVITY N/A dB

W₀ REFERENCE WELD E

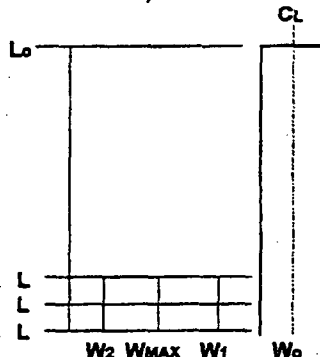
45° SCAN SENSITIVITY 65.6 dB

60° SCAN SENSITIVITY N/A dB

NOZZLE WELD REFERENCE SYSTEM (L₀ AND W₀ ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



WELD REFERENCE SYSTEM (L₀ AND W₀ 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
NO RECORDABLE INDICATIONS													

REMARKS: EXAMINED FROM AN ELEVATION OF 471.5" TO 524.5" AREA BELOW ELEVATION 471.5" WAS NOT EXAMINED DUE TO THE PROXIMITY OF AN INSULATION RING AND NON-REMOVABLE INSULATION.

EXAMINED BY Ethan Cation II LEVEL II DATE 11-4-93
 GE REVIEWED BY CE Mas DATE 12/1/93

UTILITY REVIEW 2900 Jody DATE 12/15/93
 ANII REVIEW Albatross DATE 8/25/94

PAGE: 1 OF: 1

FORM UT-M REV. 8



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-10
 DATA SHEET NO.: D-043
 CALIBRATION SHEET NO.: 0° N/A
45° N/A 60° C-117

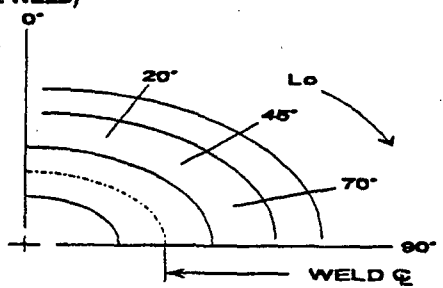
SYSTEM: RPV EXAM SURFACE TEMP: 73 °F COUPLANT: Ultraseal # EXAM START: 1245
 WELD ID: V-3-B THERMOMETER S/N: L0250 CL BATCH NO.: 093011 EXAM END: 1254

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

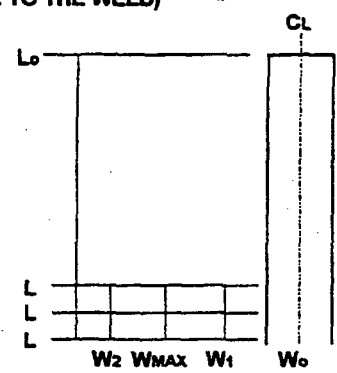
L₀ REFERENCE TOE OF WELD C-3-4
 W₀ REFERENCE WELD E

0° SCAN SENSITIVITY N/A dB
 45° SCAN SENSITIVITY N/A dB
 60° SCAN SENSITIVITY 73 dB

NOZZLE WELD REFERENCE SYSTEM (L₀ AND W₀ ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



WELD REFERENCE SYSTEM (L₀ AND W₀ 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

NO RECORDABLE INDICATIONS

REMARKS: EXAMINED FROM AN ELEVATION OF 476.5" TO 524.5" AREA BELOW ELEVATION 476.5" WAS NOT EXAMINED DUE TO THE PROXIMITY OF AN INSULATION RING AND NON-REMOVABLE INSULATION.

Exam Cator II 11-4-93
 EXAMINED BY LEVEL DATE
CQ M/S 12/1/93
 GE REVIEWED BY DATE

220000 12/5/93
 UTILITY REVIEW DATE
Abtall 8/25/94
 AMI REVIEW DATE

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