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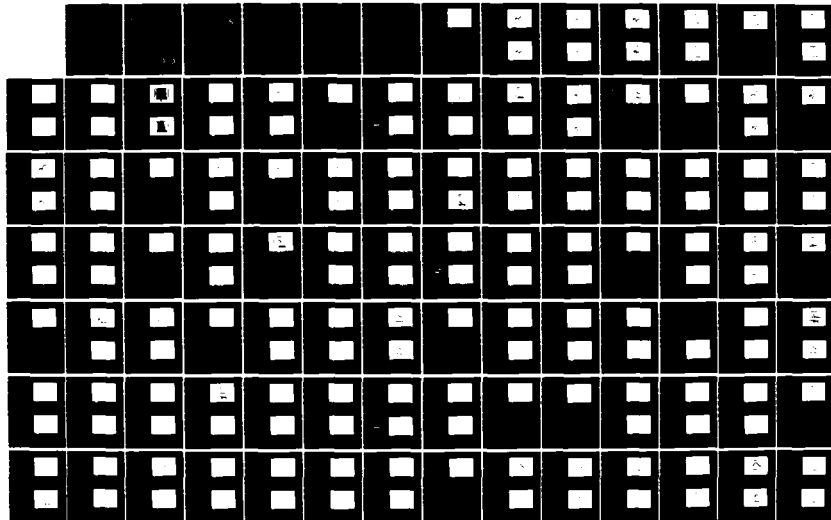
ELECTROMAGNETIC PULSE/TRANSIENT THREAT TESTING OF
PROTECTION DEVICES FOR. (U) ELECTROSPACE SYSTEMS INC
ARLINGTON VA D BODSON ET AL 31 OCT 85

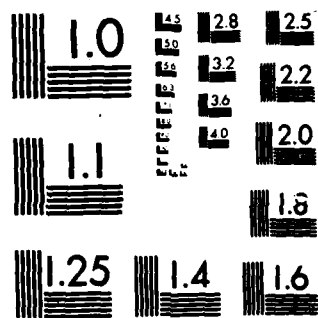
1/3

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NCS-TIB-85-10-VOL-3-SEC-2 DCA100-85-C-0010 F/G 20/14

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

2

NCS TIB 85-10



NATIONAL COMMUNICATIONS SYSTEM

AD-A164 432

VOLUME III TEST DATA ELECTROMAGNETIC PULSE TESTING OF PROTECTION DEVICES

SECTION 1 HIGH ENERGY PULSE- DEVICE FAILURE TEST

50 OHMS IMPEDANCE
25,000 VOLTS - 4000 AMPS
100 JOULES

OCTOBER 1985

This document has been approved
for public release and sale; its
distribution is unlimited.

DTIC
FEB 20 1986
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AD A164432

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REPORT DOCUMENTATION PAGE

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12 PERSONAL AUTHOR(S) Dennis Bodson, NCS; Joseph Frizzell and Thomas Higdon (ESI); Walter Rabke (Consultant)					
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19 ABSTRACT (Continue on reverse if necessary and identify by block number)					
This technical report discusses the vulnerability of equipment used by amateur/MARS radio operators in the United States to disruption or damage by transient electromagnetic effects such as lightning, voltage surges, and electromagnetic pulse (EMP) waves. It also reports the results of two test programs; one to evaluate existing transient suppression devices and components, and one to evaluate the response of amateur radio equipment to an EMP transient environment. Based on the test results, the report recommends procedures and a low-cost installation scheme which will significantly increase the operational survivability of amateur type communications equipment in a lightning or EMP environment. This report consists of three volumes. Volume I (200 pages) contains the test results and recommendations for transient protection of amateur radio equipment. Volume II					
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FEB 20 1986

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Block 19 Continued - ABSTRACT

(136 pages) contains supporting documentation including: the test plans for the two EMP tests, descriptions/specifications of the tested transient suppression devices and the amateur radio equipment, and photographs of the test facilities and test set-ups. Volume III (1290 pages) contains the raw test data in the form of oscilloscope photographs attached to the test data sheets for both test programs, as well as, written test descriptions and bench check measurements from the equipment test program. For most purposes Volume I should provide sufficient information. Volume II would be required to obtain more detailed descriptions of the test programs and tested devices and equipment. Volume III would only be required if a separate analysis of the test data is being made.

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NCS TECHNICAL INFORMATION BULLETIN 85-10

ELECTROMAGNETIC PULSE/TRANSIENT THREAT TESTING OF PROTECTION
DEVICES FOR AMATEUR/MILITARY AFFILIATE RADIO SYSTEM EQUIPMENT

OCTOBER 1985

PROJECT OFFICER

DENNIS BODSON
Senior Electronics Engineer
Office of Technology
and Standards

: APPROVED FOR PUBLICATION:

For *Marshall L. Cain*
MARSHALL L. CAIN
Assistant Manager
Office of Technology
and Standards

FOREWORD

The National Communications System (NCS) is an organization of the Federal government whose membership is comprised of 22 Government entities. Its mission is to assist the President, National Security Council, Office of Science and Technology Policy, and Office of Management and Budget in:

- o The exercise of their wartime and non-wartime emergency functions, and their planning and oversight responsibilities.
- o The coordination of the planning for and provision of National Security/Emergency Preparedness communications for the Federal government under all circumstances including crisis or emergency.

In support of this mission the NCS has executed a Memorandum of Understanding with the American Radio Relay League. Its purpose is to establish a broad framework for a cooperative and close working relationship with volunteer radio amateurs for support of national emergency communications functions. It is intended through joint coordination and exercise of the resources of both organizations, to enhance the nation-wide posture of telecommunications readiness for any conceivable national emergency. This particular Technical Information Bulletin is one of a series aimed at developing an awareness in the radio amateur community of practical, low cost EMP protective procedures, devices, and equipment which may if utilized significantly enhance the probability of amateur radio resources escaping serious damage during emergency situations involving EMP events.

Comments, on this TIB are welcome, and should be addressed to:

Office of the Manager
National Communications System
ATTN: NCS-TS
Washington, DC 20305-2010
(202) 692-2124

VOLUME III

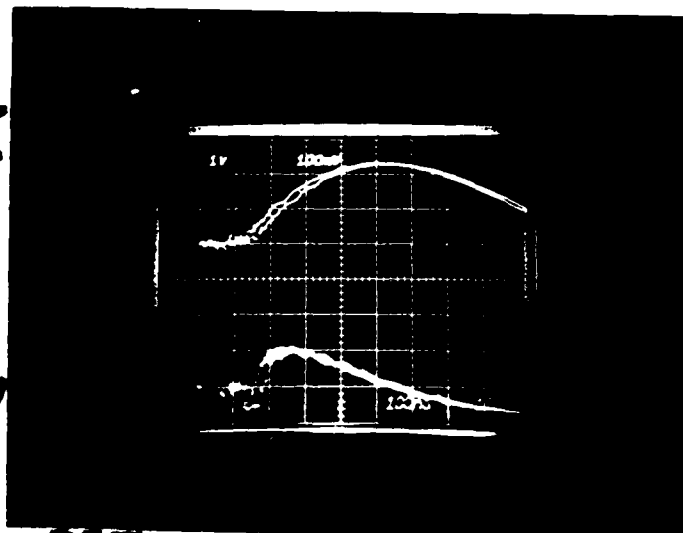
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- Section 2 HIGH IMPEDANCE/HIGH VOLTAGE TEST 50 OHMS, 4500 VOLTS
- Section 3 LOW IMPEDANCE/HIGH VOLTAGE TEST 5 OHMS, 4500 VOLTS, 1000 AMPS
- Section 4 LOW IMPEDANCE/LOW VOLTAGE TEST 5 OHMS, 600 VOLTS, 120 AMPS
- Section 5 EQUIPMENT AND DEVICES OSCILLOSCOPE PHOTOGRAPHS
- Section 6 EQUIPMENT AND DEVICES BENCH CHECK MEASUREMENTS
- Section 7 EQUIPMENT AND DEVICES TEST DESCRIPTIONS

HV REF - STANDARD

Date	6-20-85
Test Point	REF I + V
Amplification	0 dB
Attenuation	40 dB
Horizontal	100 ns/div 1
Vertical	1V(2000V) ns/div 1
Horizontal	100 ns/div 2
Vertical	.1V(800V) ns/div 2
Configuration	-20dB
Pulser Level	25000V
Data Link	
Comments:	1558

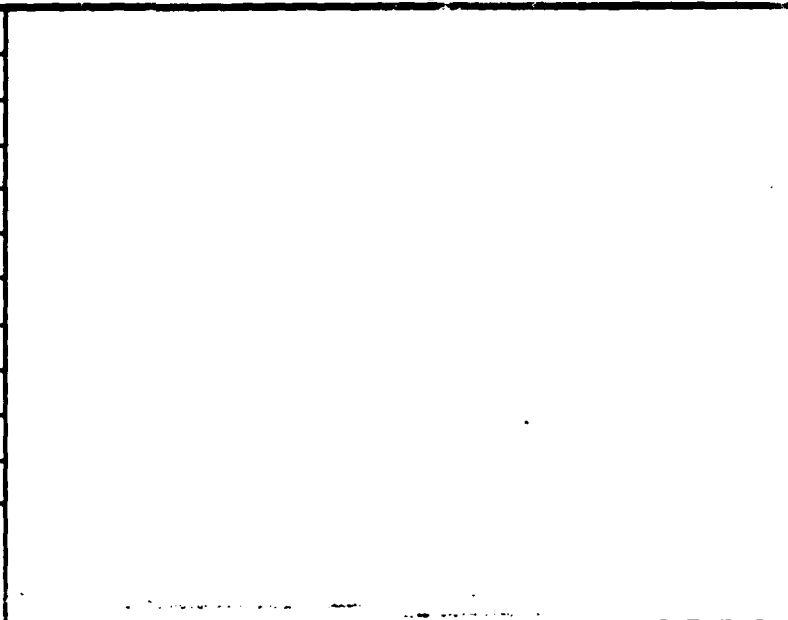
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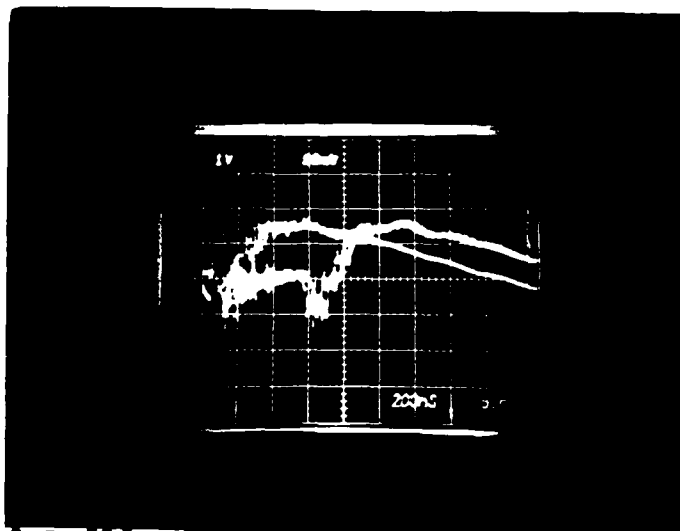
1558

IGNORE ALL HASH BEFORE START OF
CURRENT PULSE (I) OR 150 NANO SEC'S.
ON ALL HV TEST'S (T25-TESTS)

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

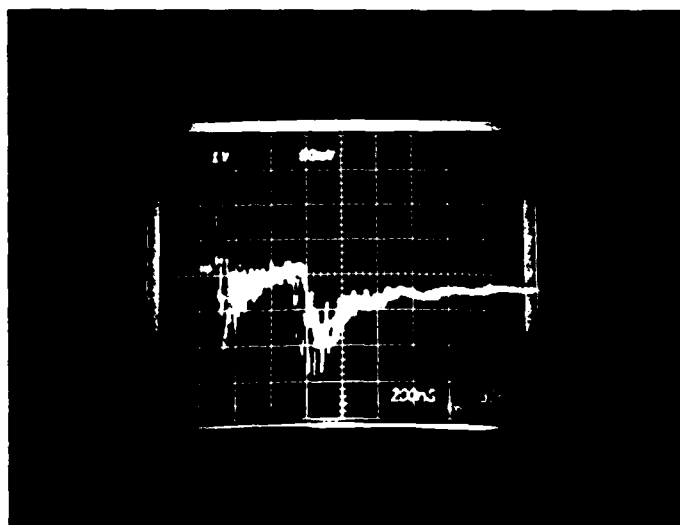


Date	6-20-85
Test Point	SC - REF
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.05V(400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25,000V
Data Link	
Comments:	1544



GRND CLIP OPEN -
PROBE ON GRND STRAP

Date	6-20-85
Test Point	SC - REF
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.05V(400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25,000V
Data Link	
Comments:	1543

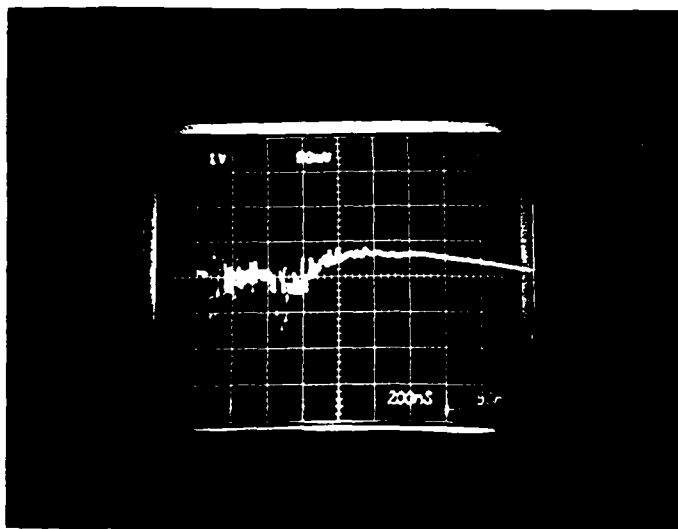


SAME AS 1542 WITH V PROBE LEAD
VERTICAL -

Date 6-20-85
 Test Point SC REF
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments:

1552

GND REF

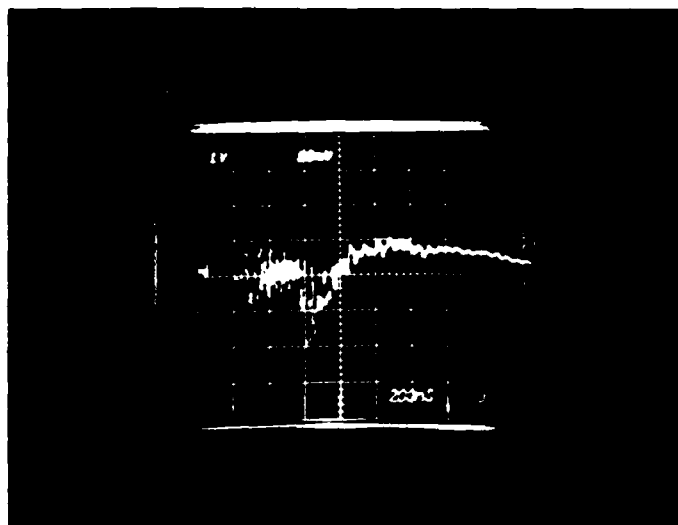


1552

Date 6-20-85
 Test Point SC REF
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments:

1553

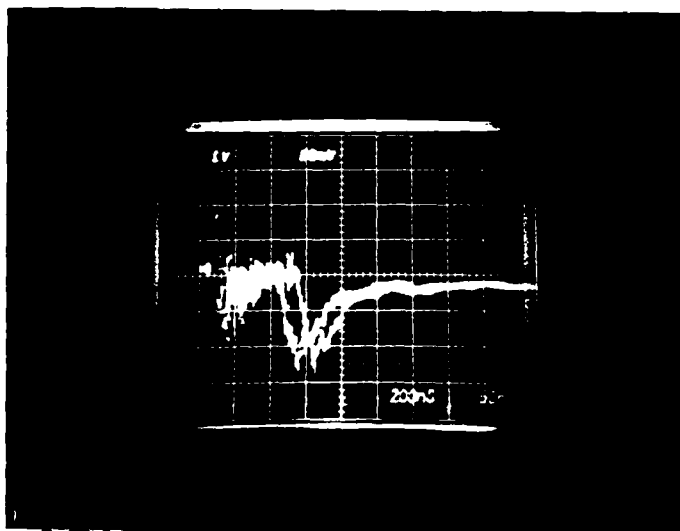
GND REF



1553

Date	6-20-85
Test Point	SC - REF
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.05V (400V) mV /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	25000V
Data Link	
Comments:	

1541

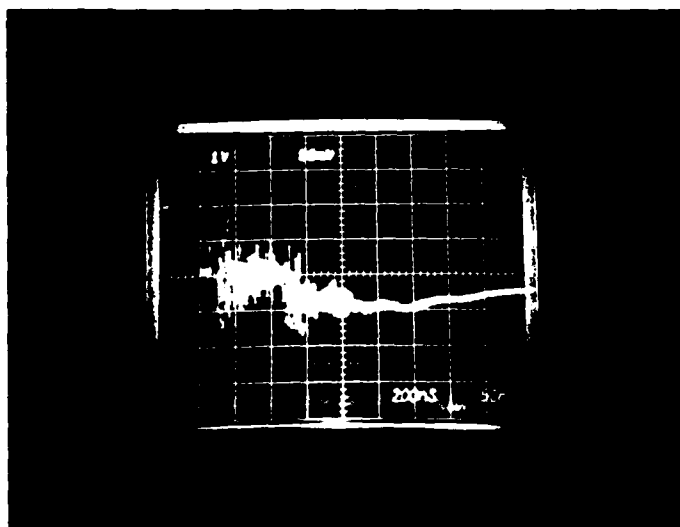


1541

PULSE CLIP TO BRAID GROUND CLIP ON STRAP

Date	6-20-85
Test Point	SC - REF
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.05V (400V) mV /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

1542



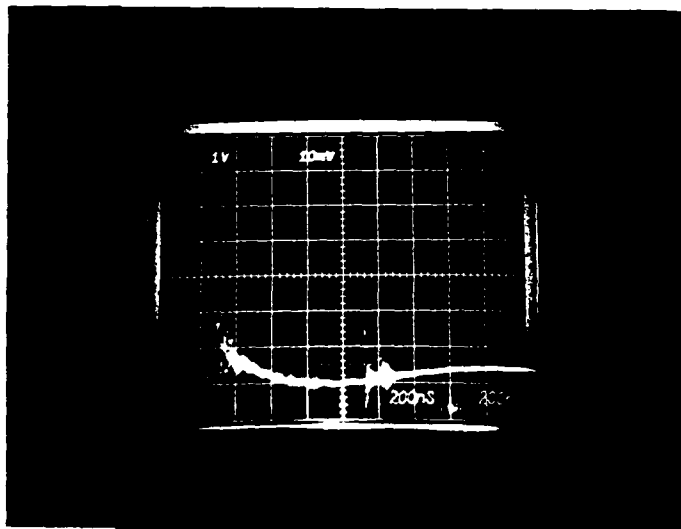
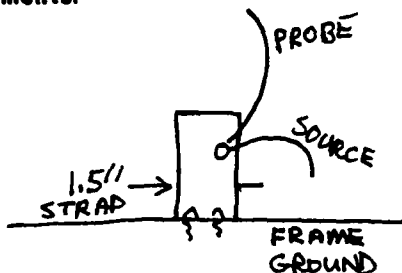
1542

PROBE TO BRAID
GND CLIP NOT CONNECTED

HV GROUND REFERENCE

Date 6-20-85
 Test Point REFERENCE-HV
 Amplification 0 dB
 Attenuation -20 dB
 Horizontal 200 ns/div 1
 Vertical .01V(80V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link

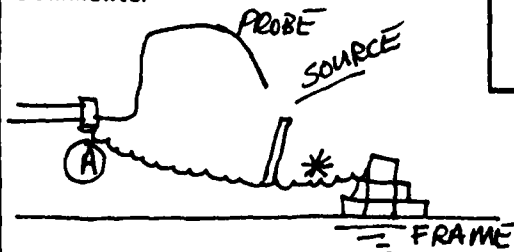
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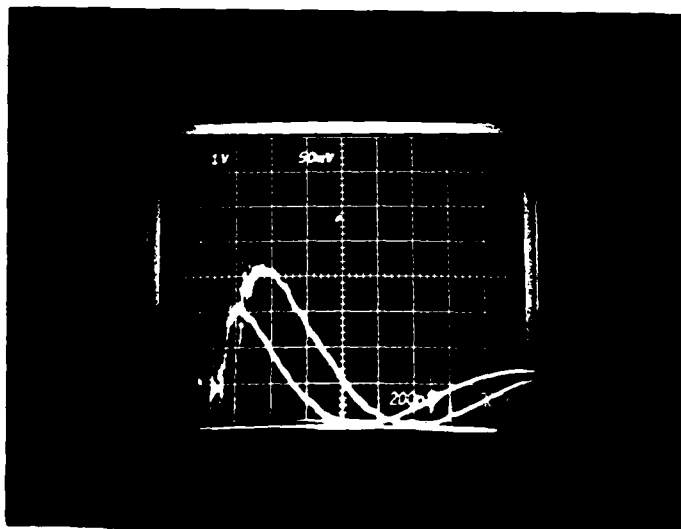
LOW IMPEDANCE
GROUND REFERENCE

Date 6-20-85
 Test Point REFERENCE HV
 Amplification 0 dB
 Attenuation -20 dB
 Horizontal 200 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal 400V ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link

Comments:



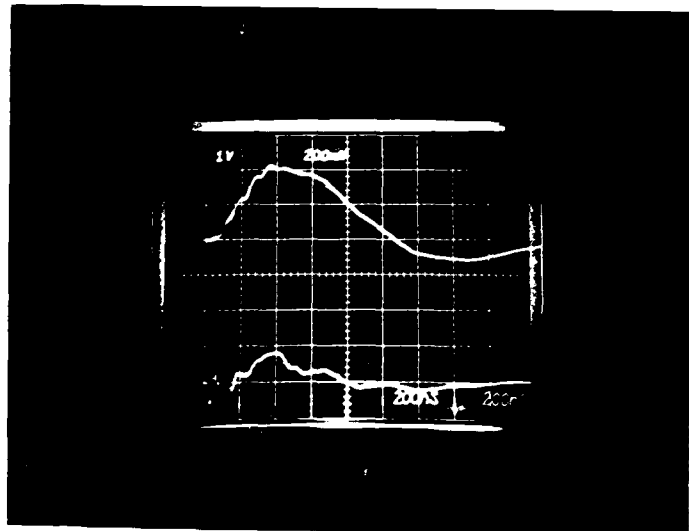
HIGH PULSE SETUP



* THIS SECTION ~3" BRAID HAS BEEN
 REPLACED WITH RG 213 BRAID ~1/2" D
 ORIG WAS RG 58 BRAID ~1/4" D (1600V
 VS 1200V)
 FOR LOW PULSE, GROUND
 POINT A TO FRAME

HV- REFERENCE

Date	6-20-85
Test Point	REFERENCE
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000 A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	.2V (1600V) mV/div 2
Configuration	-20dB
Pulser Level	25,000V
Date Link	
Comments:	



SHORT CIRCUIT REF GND TO STRAP

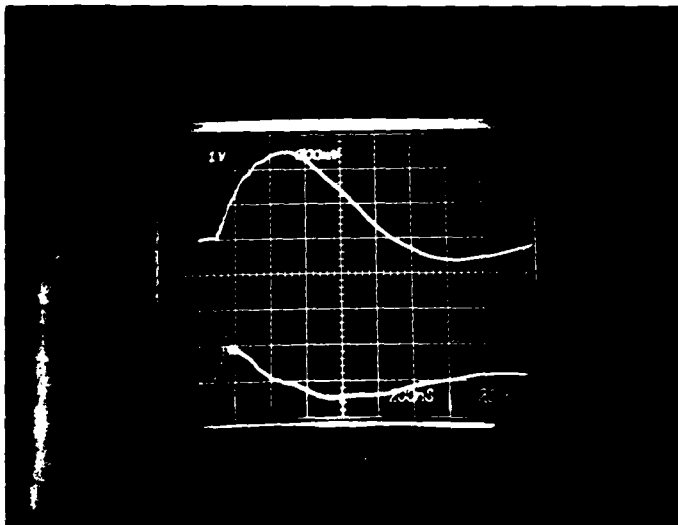
TIME: 0803 6/20

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Date Link	
Comments:	

HV

REFERENCE

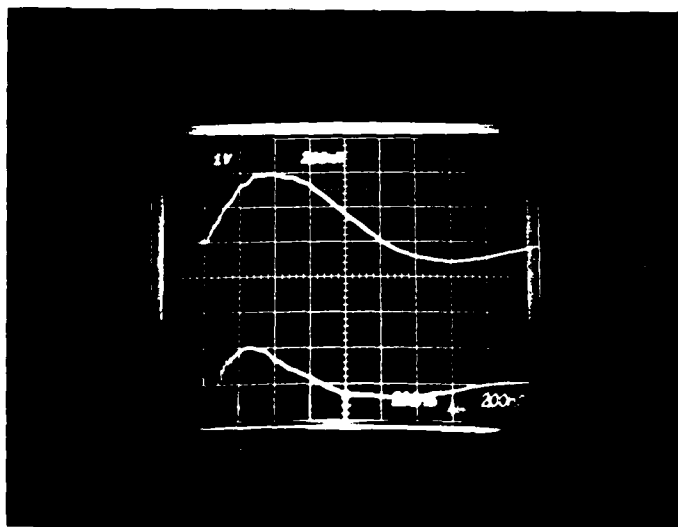
Date 6-20-85
 Test Point REFERENCE
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000V) 100V/div 1
 Horizontal 200 ns/div 2
 Vertical .2V (1600V) 20V/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



SHORT-CIRCUIT
 (SC) REF - INTO GRND PLATE THRU 1.5"
 STRIP - MINIMUM VOLTAGE -

TIME: 0840 - 6/20

Date 6-20-85
 Test Point REFERENCE
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000V) 100V/div 1
 Horizontal 200 ns/div 2
 Vertical .2V (1600V) 20V/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



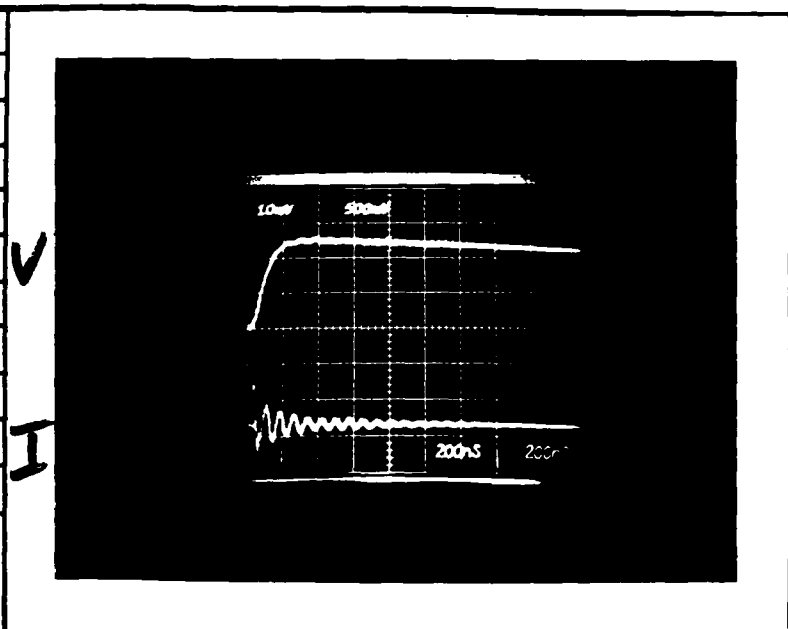
SHORT CIRCUIT (SC) REF - TO GND THRU CLIP.

TIME: 0757 6/20

HV

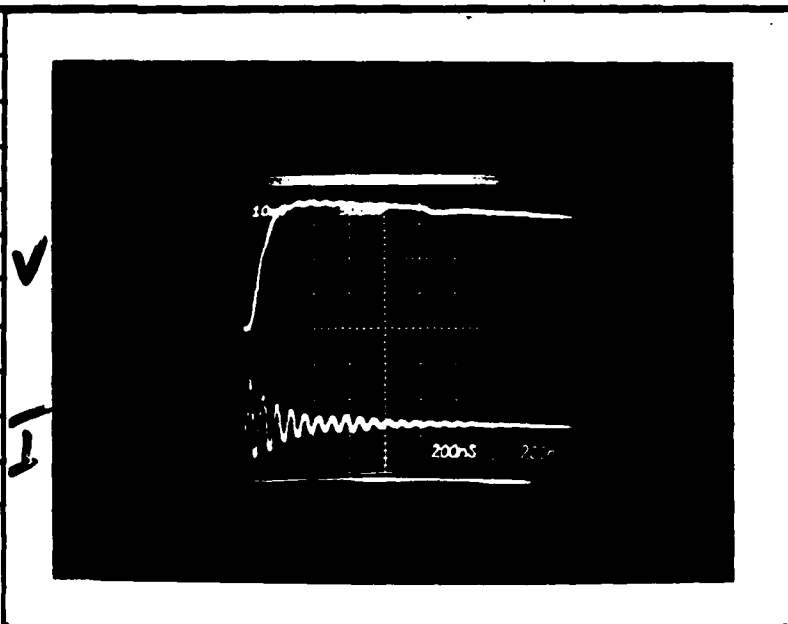
REFERENCE PULSES

Date	6-13-85
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	.5V (4000V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	10KV
Data Link	
Comments:	



VOLTAGE ON TDP SCALE

Date	6-13-85
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	.5V (4000V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	15KV
Data Link	
Comments:	



VOLTAGE ON TDP -

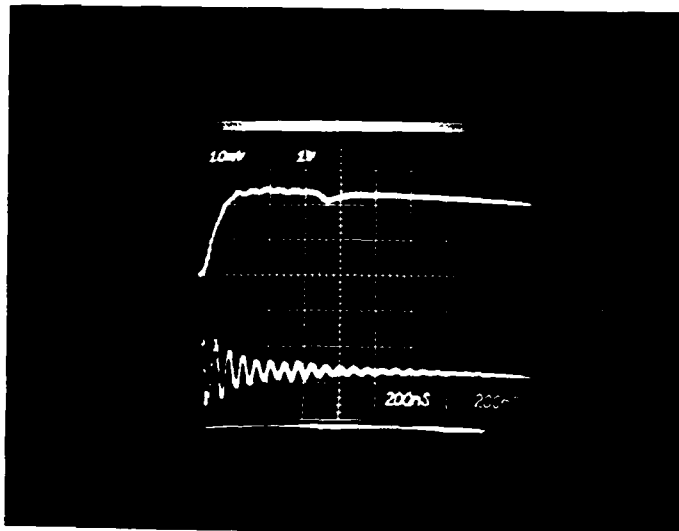
HV

REFERENCE PULSES -

Date	6-13-85
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	1V (8000V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	20 KV
Data Link	

Comments:

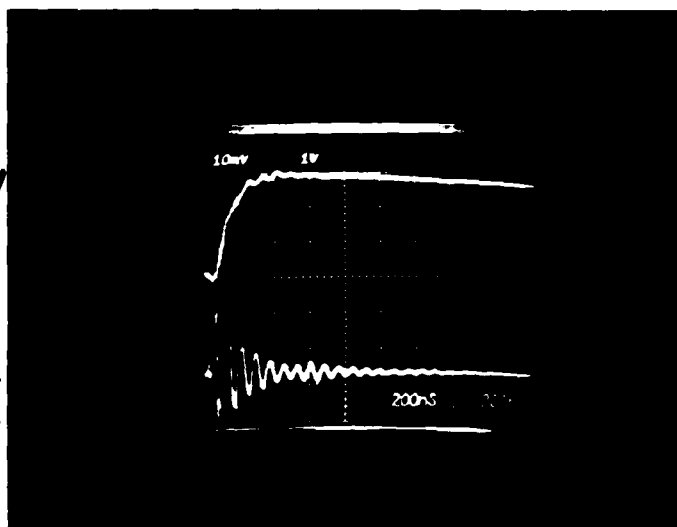
1234



Date	6-13-85
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	1V (8000V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	25 KV
Data Link	

Comments:

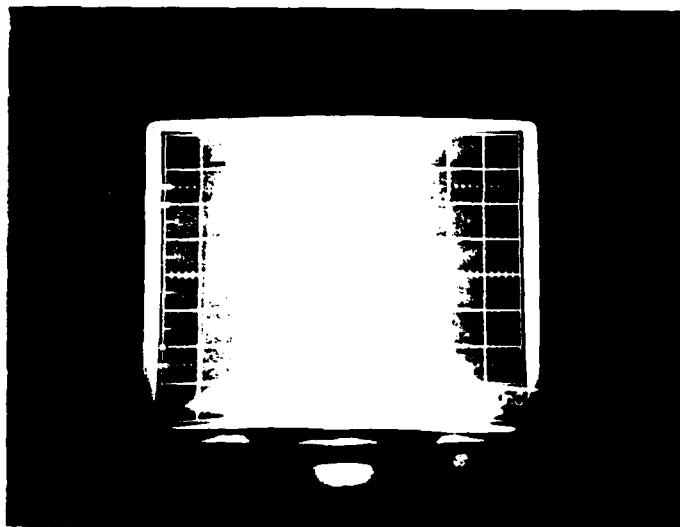
1235



PROBE - CALIBRATION - 11V

Date	6-13-85		
Test Point			
Amplification	dB		
Attenuation	20 dB		
Horizontal	200	ns/div	1
Vertical	1V	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulse Level	60V		
Data Link			
Comments:			

1230



19.5 dB on net anal -

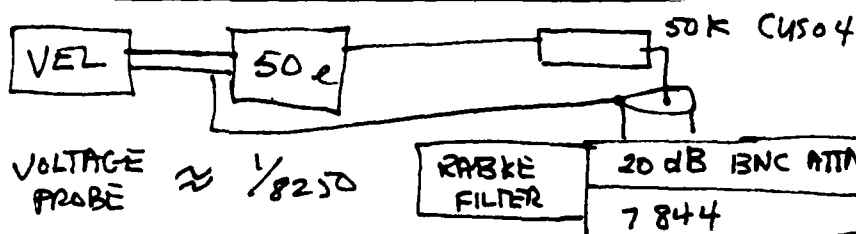
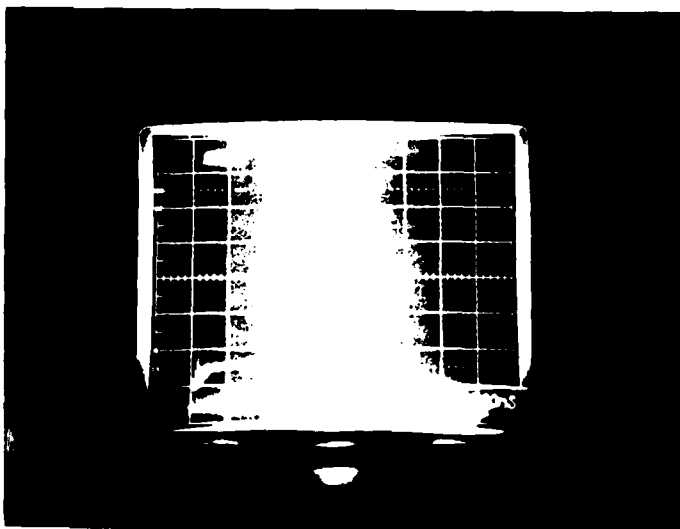


1V
200 NS/

Date			
Test Point			
Amplification	dB		
Attenuation	20 dB		
Horizontal	200	ns/div	1
Vertical	10	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulse Level	60V		
Data Link			
Comments:			

1231

1/8750

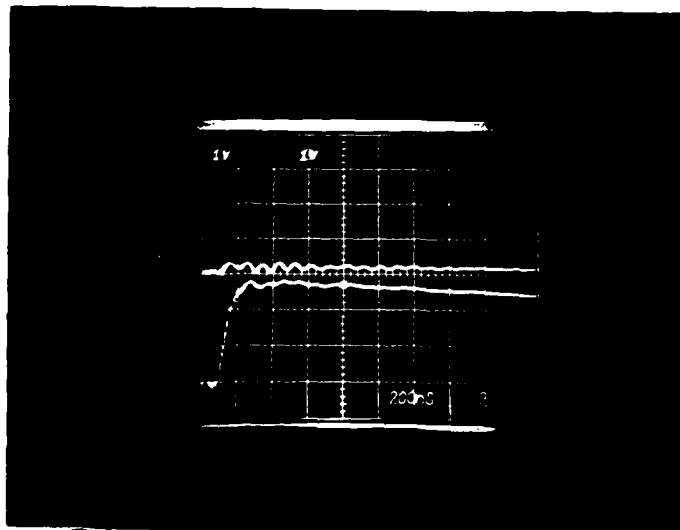


VOLTAGE
PROBE $\approx 1/8250$

HV - REFERENCE

Date 6-19-85
 Test Point REFERENCE
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

1510



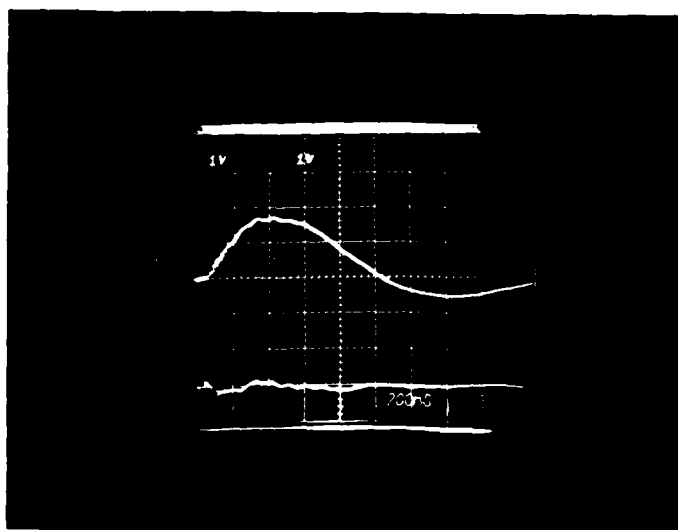
1510

• RER TO 50Ω 2 LOAD

WITH DIRTY AIR GAP

Date 6-19-85
 Test Point REFERENCE
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration -20dB
 Pulsar Level 25000 V
 Data Link
 Comments:

1516

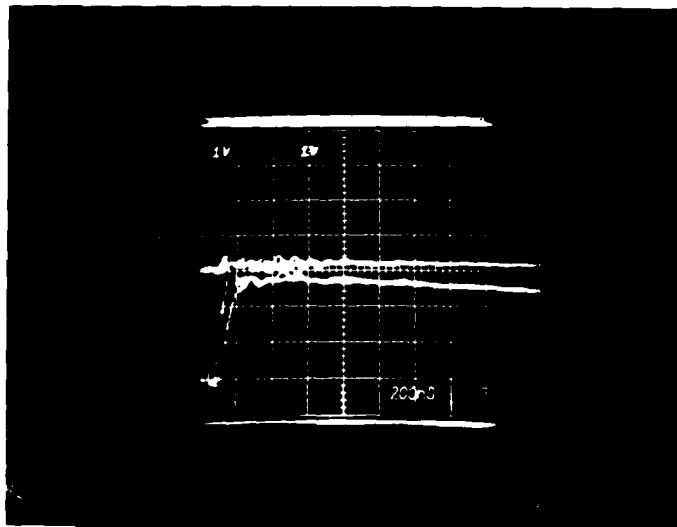


1516

REF TO GND

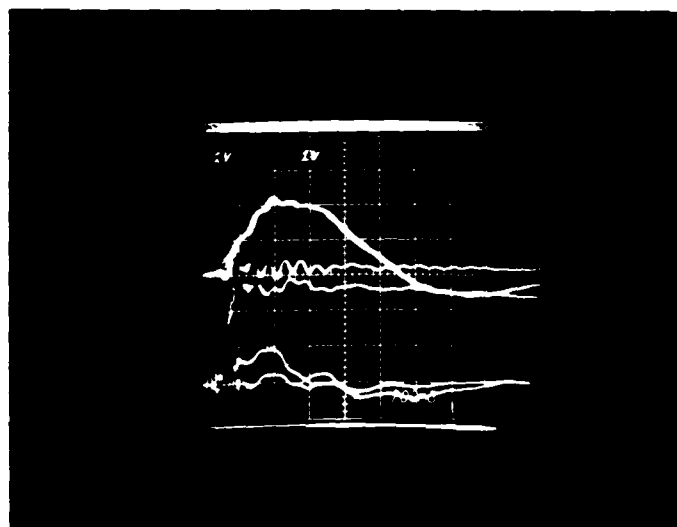
WITH A CLEAN AIR GAP

Date 6-19-85
 Test Point TB-T25-1/5-1
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mm/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mm/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1508



1508

Date 6-19-85
 Test Point TB-T25-6/10-2
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mm/div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V(1600V)~~ mm/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1509

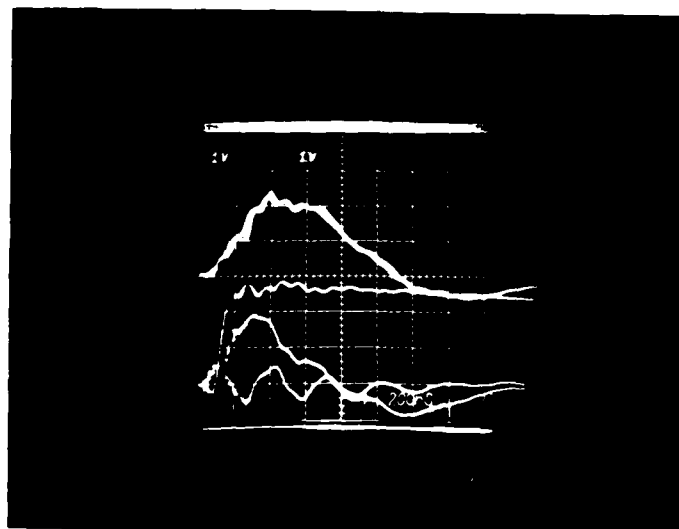


1509

1 PULSE @ 1V/(8000V)
 1 PULSE @ .2V/(1600V)

"PULSER RINGING"

Date	6-19-85
Test Point	TR-T25-2-3
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000 A/div 1)
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	



REF V @ 1V/(8000V)
DATA @ .1V/(800V)

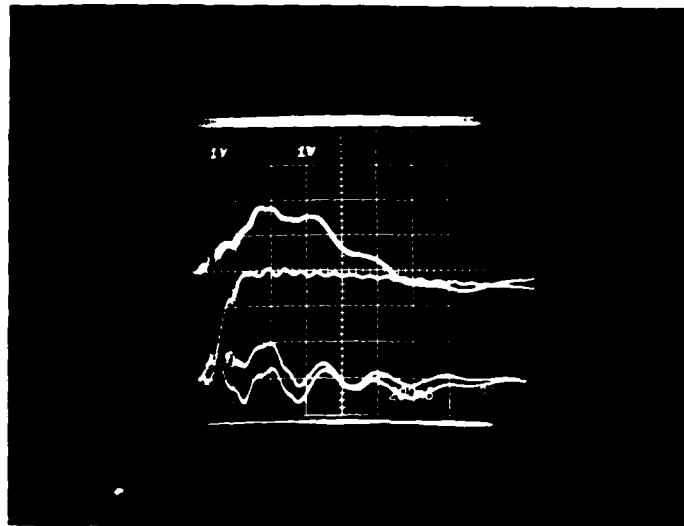
"PULSER RINGING"

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	

Date 6-19-85
 Test Point TR-T25- -4
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal ~~200~~ 200 ns/div 1
 Vertical 1V(2000V) V/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) V/div 2
 Configuration -20dB
 Pulser Level 25000V
 Data Link

Comments: 1514

REF @ 1V(8000V)
 DATA @ 1V(8000V)
 DATA @ .2V(1600V)



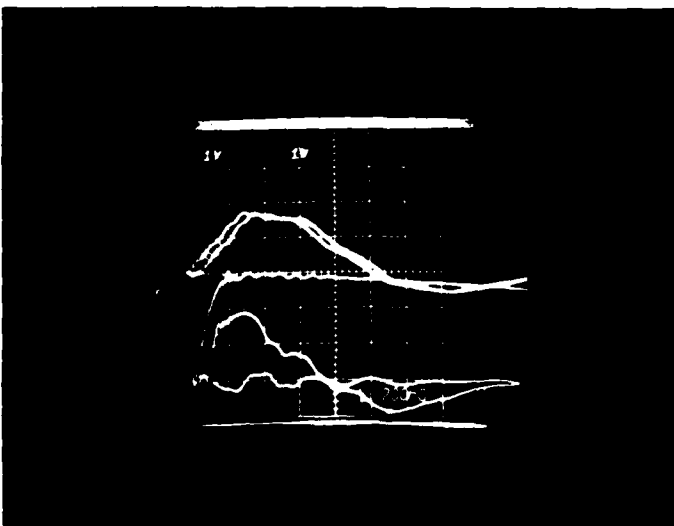
1514 -

"PULSER RINGING"

Date 6-19-85
 Test Point TR-T25-2-5
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000V) V/div 1
 Horizontal ~~200~~ 200 ns/div 2
 Vertical 1V(8000V) V/div 2
 Configuration -20dB
 Pulser Level 25,000V
 Data Link

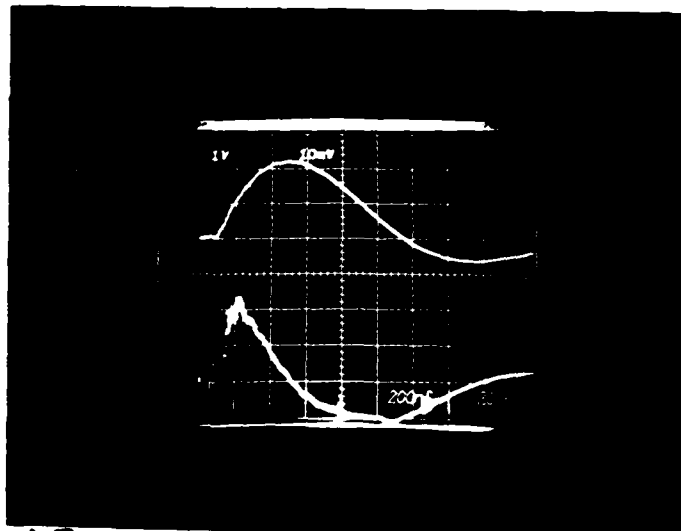
Comments: 1515

DATA - 1V(8000V)
 DATA - .1V(800V)



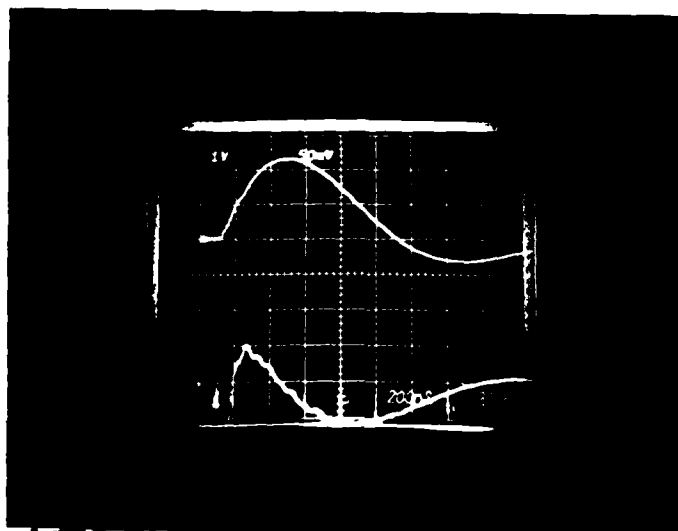
1515

Date 6-20-85
 Test Point TR5-T25-1-0
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (20000) mV/div 1
 Horizontal 200 ns/div 2
 Vertical (0.1V) (80V) mV/div 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link
 Comments: 1532



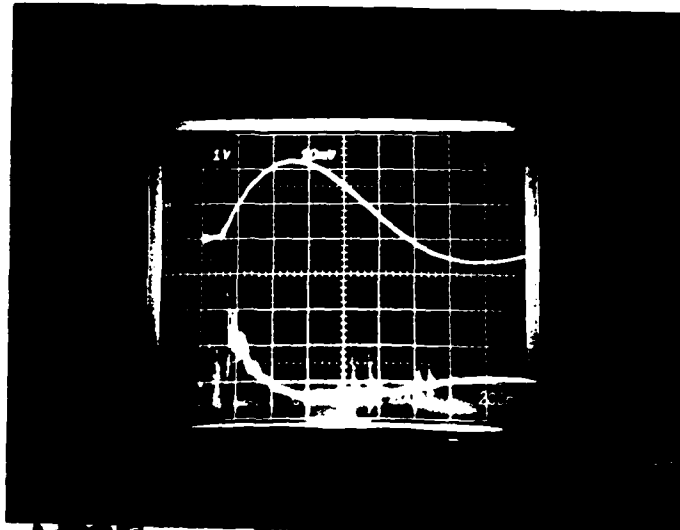
1532

Date 6-20-85
 Test Point GND-REF-TR5-
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (20000) mV/div 1
 Horizontal 200 ns/div 2
 Vertical (0.5V) (400V) mV/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments: 1533



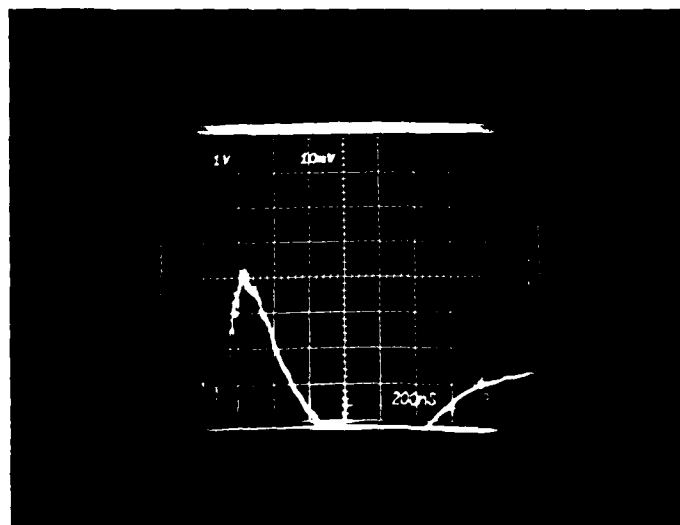
1533

Date 6-20-85
 Test Point TR5-T25-2-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000V)  /div 1
 Horizontal 200 ns/div 2
 Vertical .01V (80V)  /div 2
 Configuration -20dB
 Pulsar Level 25,000V
 Data Link
 Comments: 1529



1529

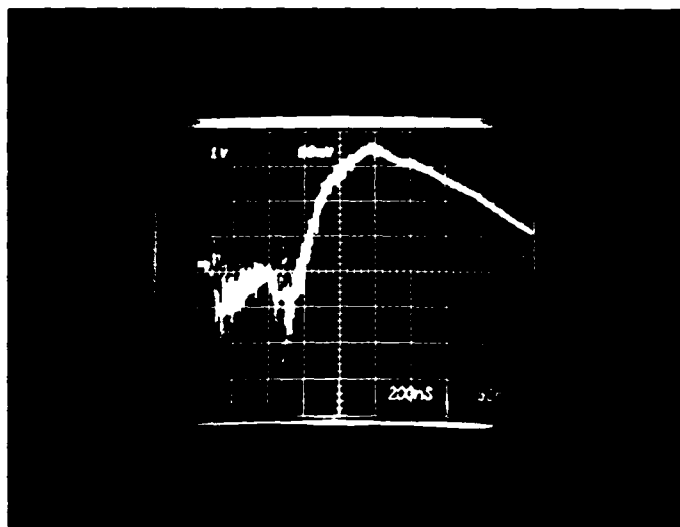
Date 6-20-85
 Test Point TR6-T25-L-
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 200 ns/div 1
 Vertical .01V (80V)  /div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25,000V
 Data Link
 Comments: 1530



1530

Date 6-20-85
 Test Point TR5-T25-1-0
 Amplification 0 dB
 Attenuation -20 dB
 Horizontal 50 ns/div 1
 Vertical .05V(400V) ns/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25,000V
 Data Link
 Comments:

1535

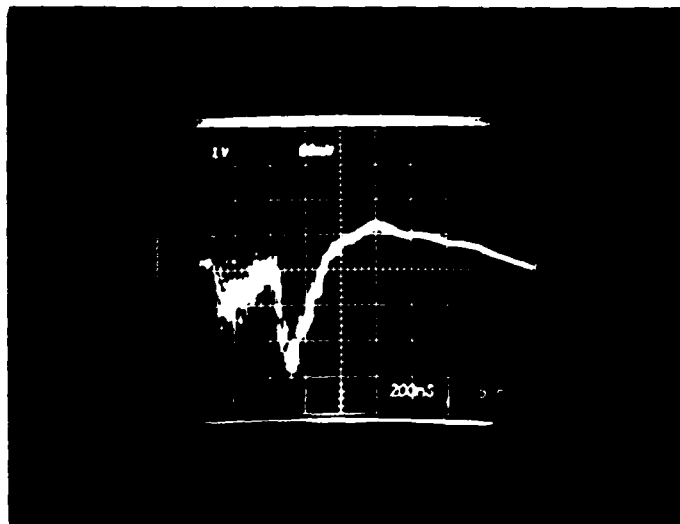


1535

TIME

Date 6-20-85
 Test Point TR5-REF-SC
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .05(400V) ns/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments:

1534



1534

SHORT CIRCUIT REF

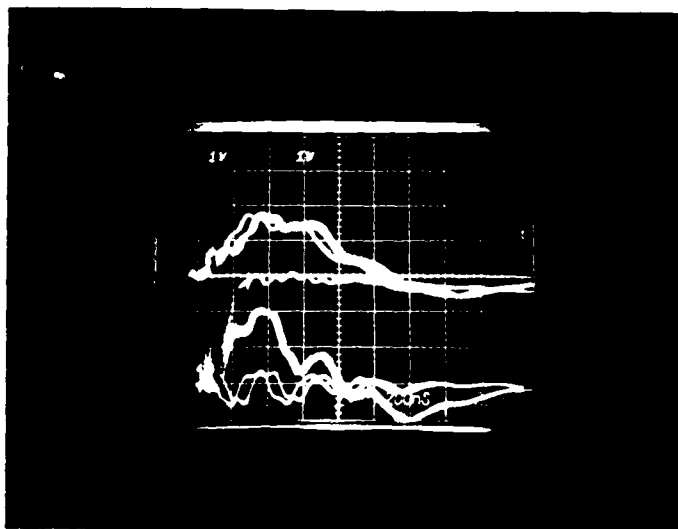
TIME: 1315 6/20

Date 6-19-85
 Test Point TR-T25-2-5
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000 V) V/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) V/div 2
 Configuration -20 dB
 Pulsar Level 25,000V
 Data Link

Comments:

1515
 REPEAT

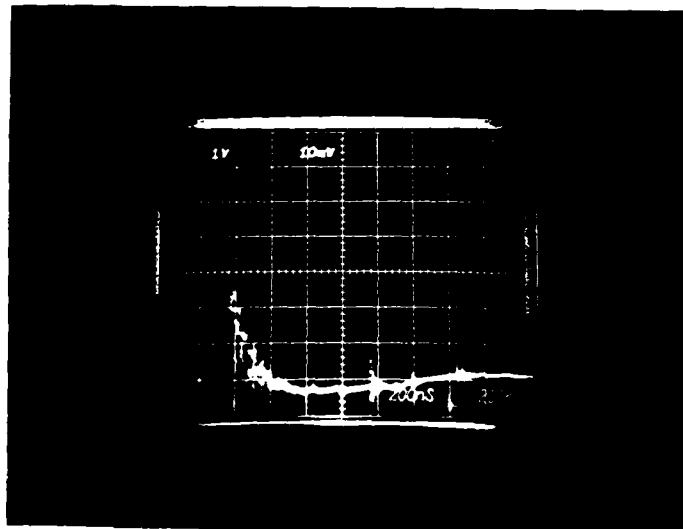
DATA @ 1V (8000V)
 " @ .1V (800V)



1515 REPEAT

Date
 Test Point
 Amplification dB
 Attenuation dB
 Horizontal ns/div 1
 Vertical mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level
 Data Link
 Comments:

Date	6-20-85
Test Point	TR6-T25-
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25,000V
Data Link	
Comments:	

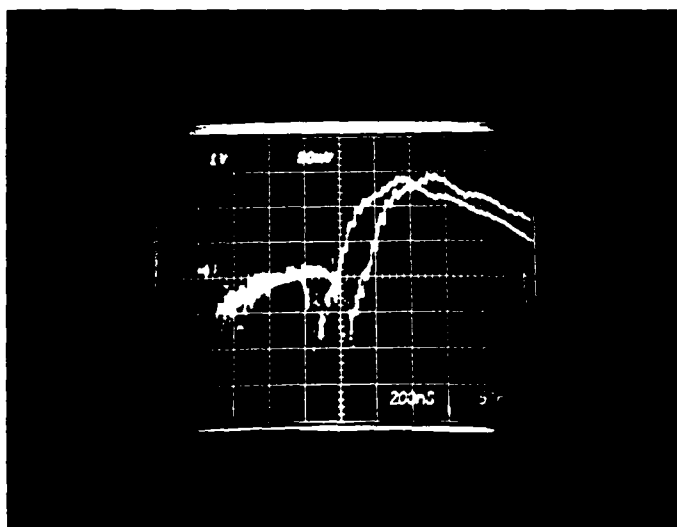


Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	

Date	6-20-85
Test Point	TR6-T25-
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.05V(400V) nm /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25000V
Data Link	

Comments:

1536

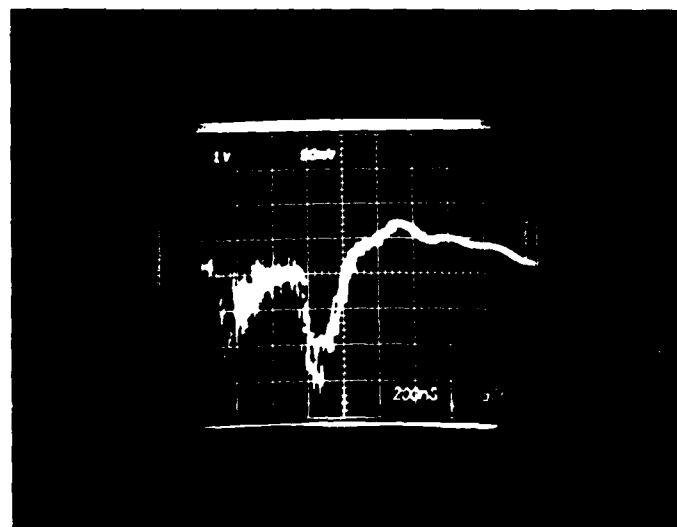


1536

Date	6-20-85
Test Point	REF
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.05V(400V) nm /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25,000V
Data Link	

Comments:

1537

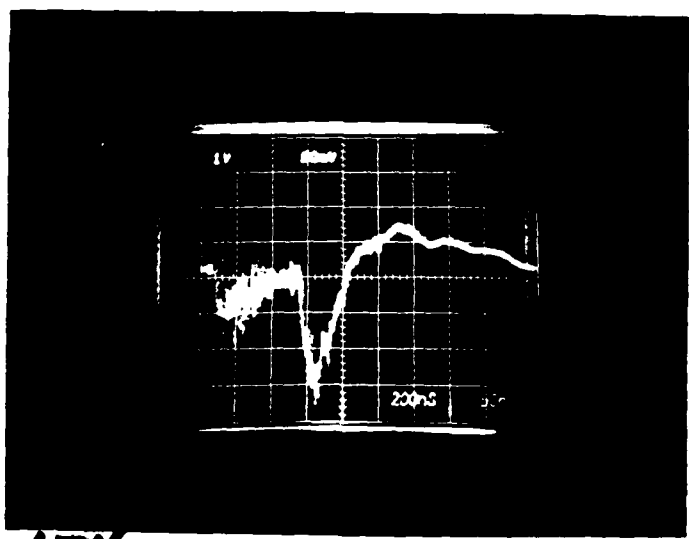


1537

SHORT CIRCUIT REF

7

Date	6-20-85
Test Point	TR7- REF-SC
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.05V (400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	25000
Data Link	
Comments:	



1540

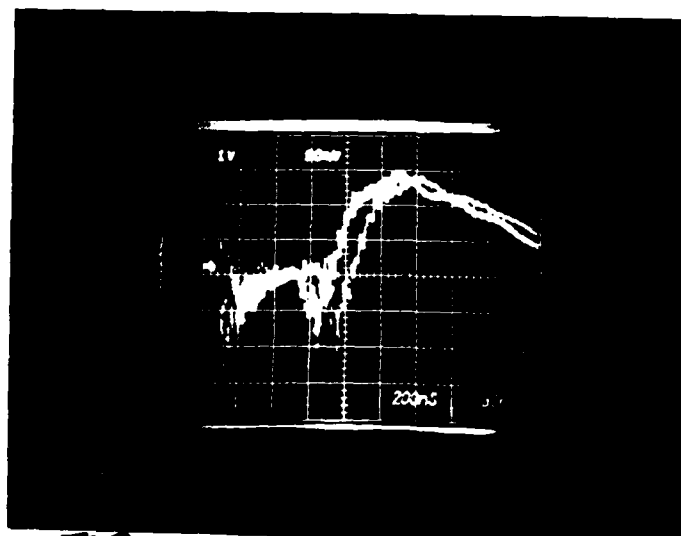
1540

SC - REF

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date 6-20-85
 Test Point TR7-T25-2-Ø
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .05V (400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments:

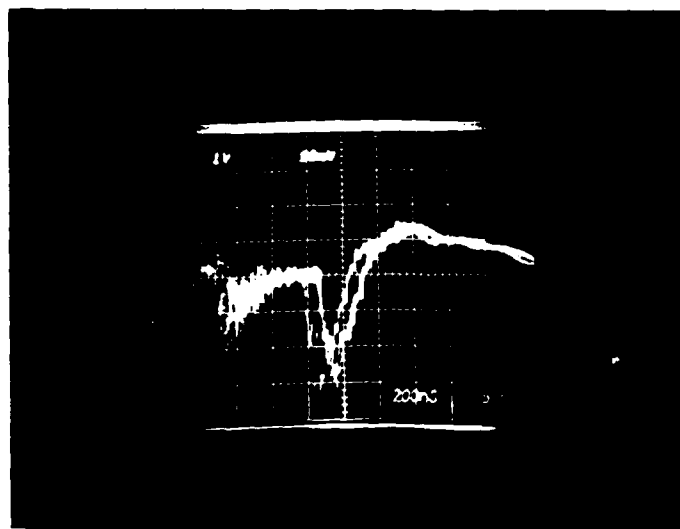
1539



1539

Date 6-20-85
 Test Point TR SC REF (2)
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .05V (400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments:

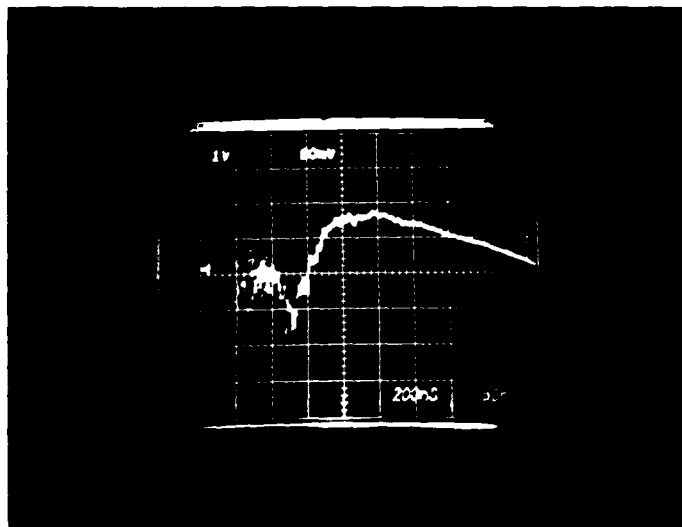
1538



1538

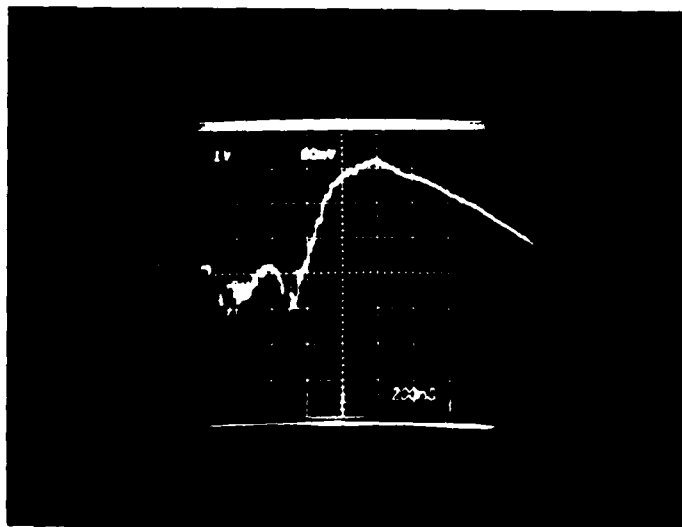
SC-REF -

Date 6-20-85
 Test Point TR8 - SC REF-1
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000 V
 Data Link
 Comments:

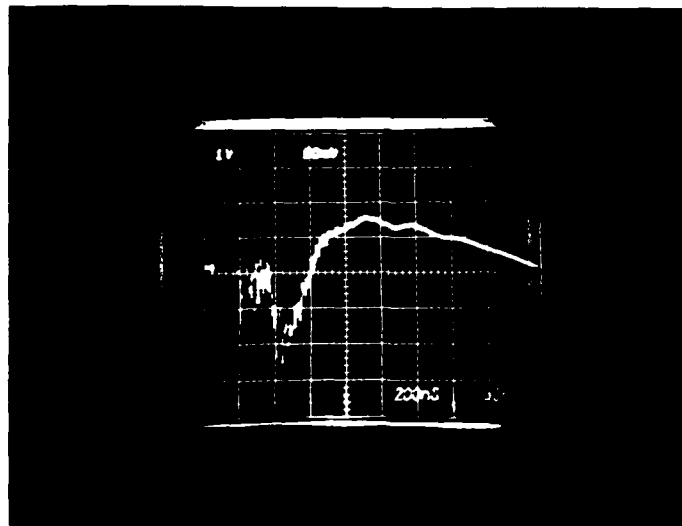


SC REF

Date 6-20-85
 Test Point TR8 - T25-
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level
 Data Link
 Comments:



Date	6-20-85
Test Point	TR8-SC REF-2
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	0.5V(400V) ns/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25000V
Data Link	
Comments:	1547

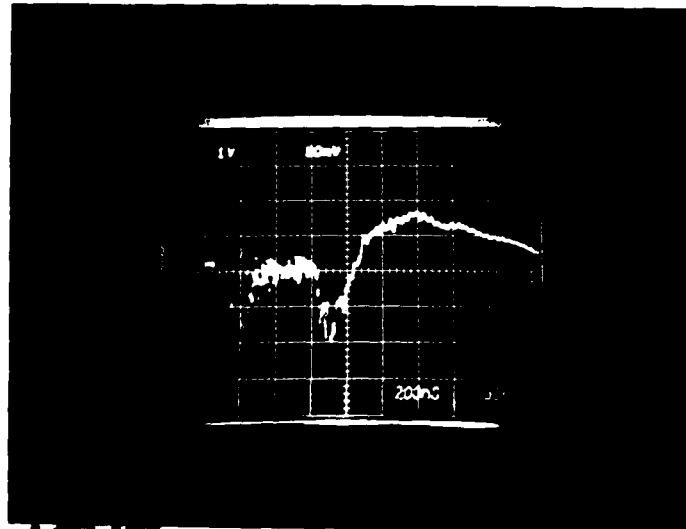


Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	

Date 6-20-85
 Test Point TR-9-~~SC~~ SC REF-1
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level 25000V
 Data Link
 Comments:

1548

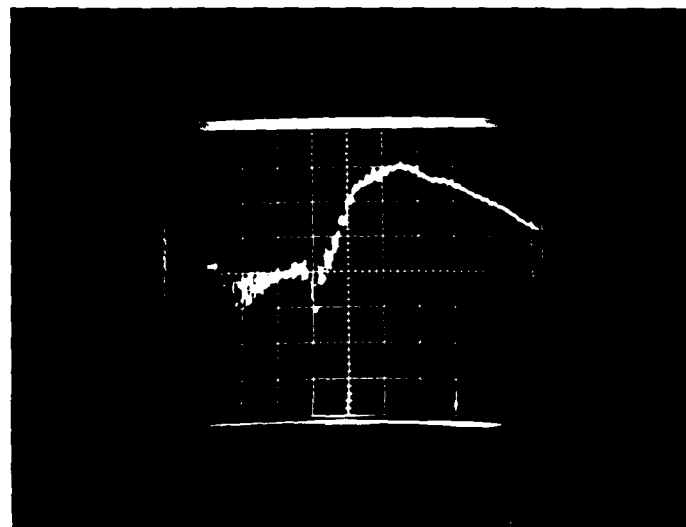
- REF -



1548

Date 6-20-85
 Test Point TR9-T25-1-φ
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level 25000V
 Data Link
 Comments:

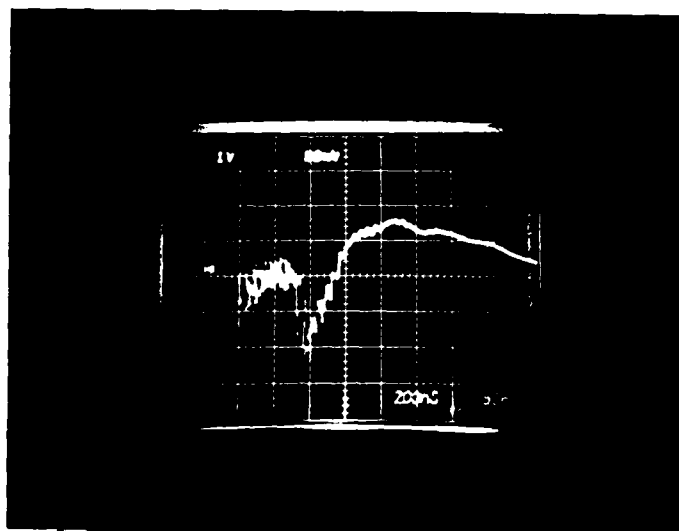
1549



1549

Date	6-20-85
Test Point	TR9-REF-SC
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	0.5V(400V) 100V/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25000V
Data Link	
Comments:	

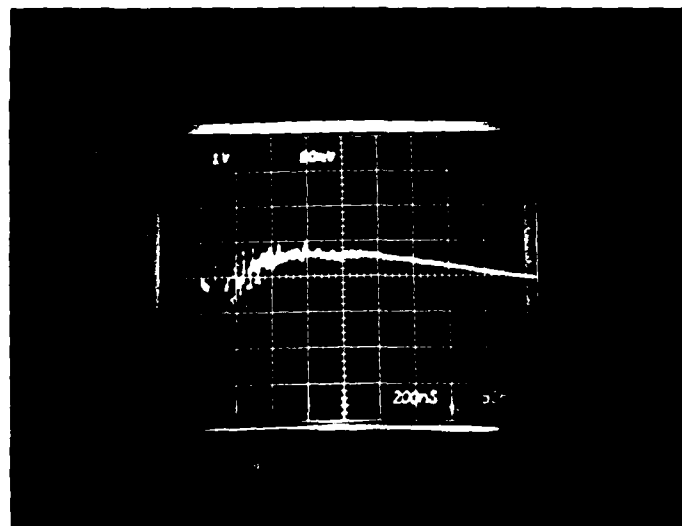
1550



1550

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	

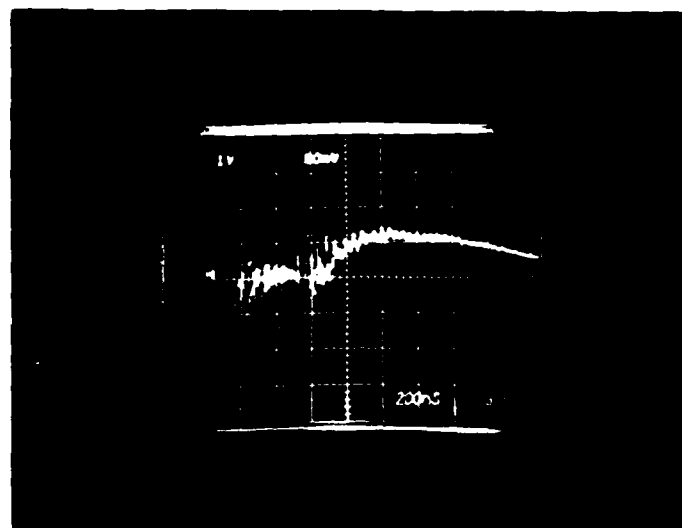
Date	6-20-85
Test Point	TR10-SC-REF
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.05V(400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25,000V
Data Link	
Comments:	1551



1551

REF

Date	6-20-85
Test Point	TR10-T25-1-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	.05V(400V) ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	2500V
Data Link	
Comments:	1550



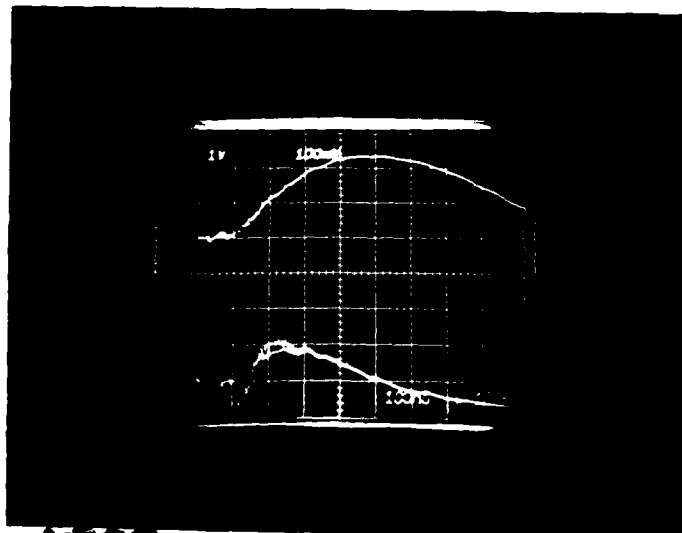
1550

TR-10

Date 6-20-85
 Test Point TR11-SC REF
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000^{AV}) mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V (800V) mV/div 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link

Comments:

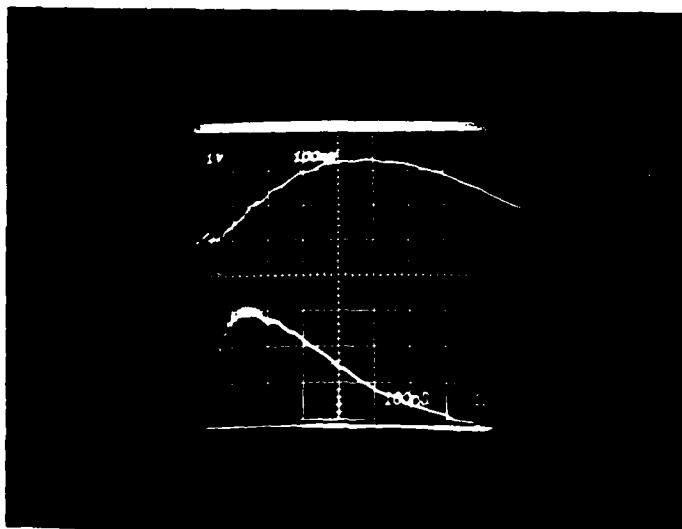
1559



Date 6-20-85
 Test Point TR11-T25-1-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000^{AV}) mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V (800V) mV/div 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link

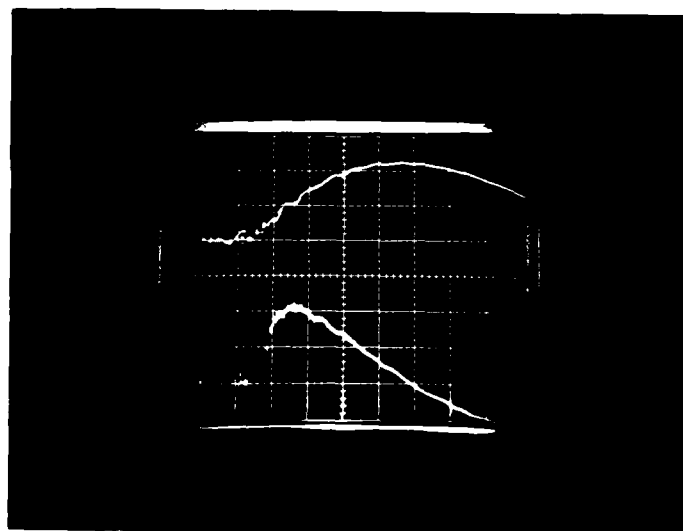
Comments:

1560



1560

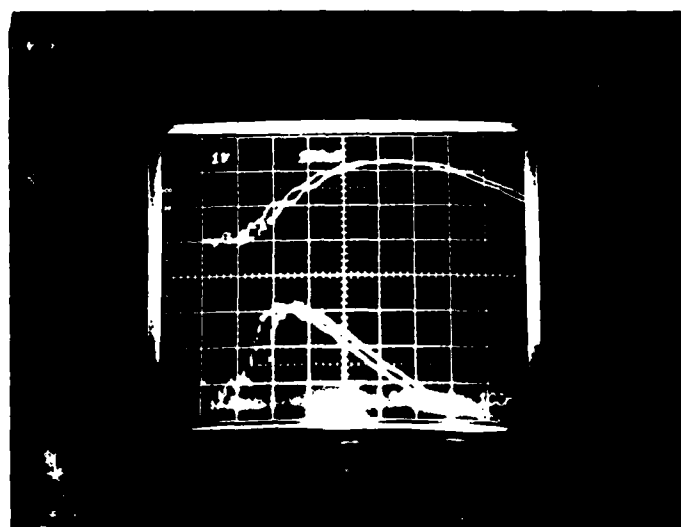
Date 6-20-85
 Test Point TR11-T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V(2000 A/V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical .1V(800V) mV/div 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link
 Comments: 1563



TR11+

SOLDERED SHORT TR11+ SHORT BAR WIRE

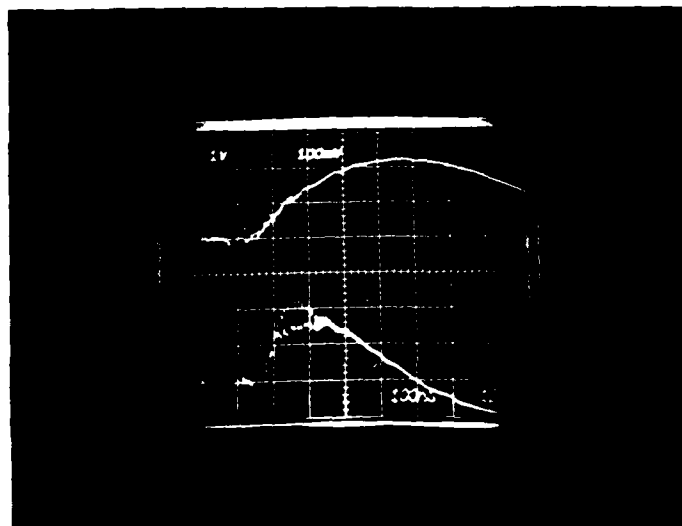
Date 6-20-85
 Test Point TR11A-T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V(2000 A/V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical .1V(800V) mV/div 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link
 Comments: 1564



TR11A

Date 6-20-85
 Test Point TR11-SHORT BAR
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000 A/V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V (800V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25000V
 Data Link
 Comments:

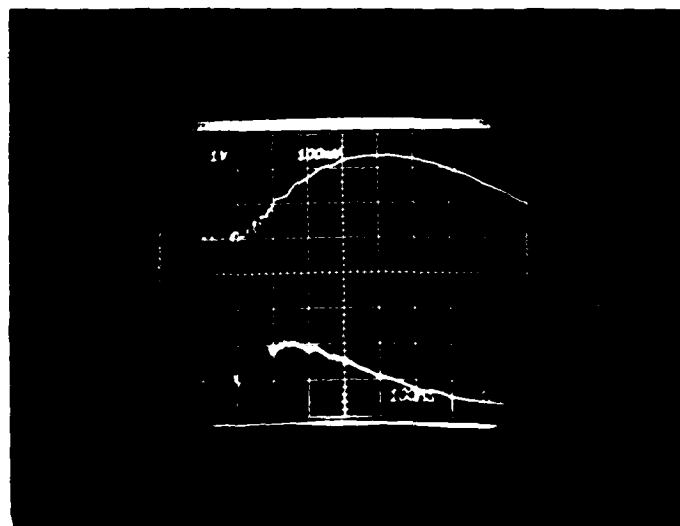
1562



1561

Date 6-20-85
 Test Point TR11-GND REF
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000 A/V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical .1V (800V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25000V
 Data Link
 Comments:

1562

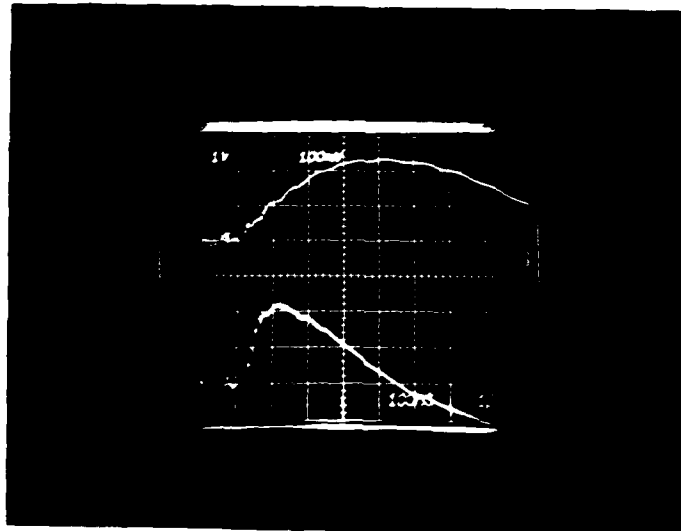


1562

SC GND REF

Date 6-20-85
 Test Point TR12-T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000 V/V) 1
 Horizontal 100 ns/div 2
 Vertical 1V (800V) 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link
 Comments:

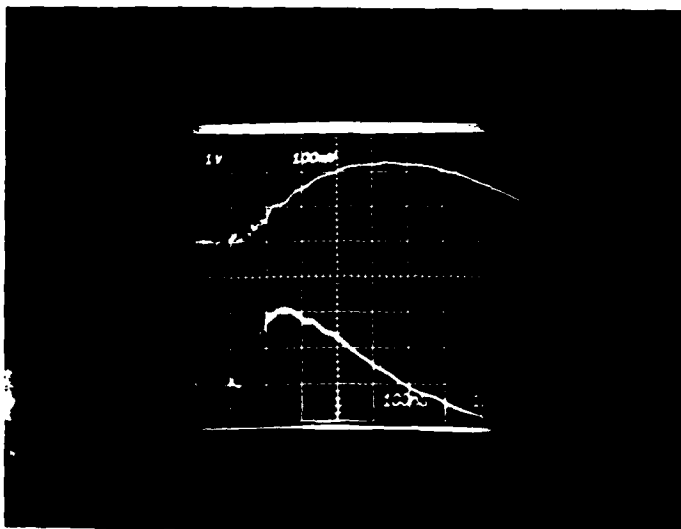
1564
 A



TR-12

Date 6-20-85
 Test Point TR12-T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000 V/V) 1
 Horizontal 100 ns/div 2
 Vertical 1V (800V) 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link
 Comments:

1565

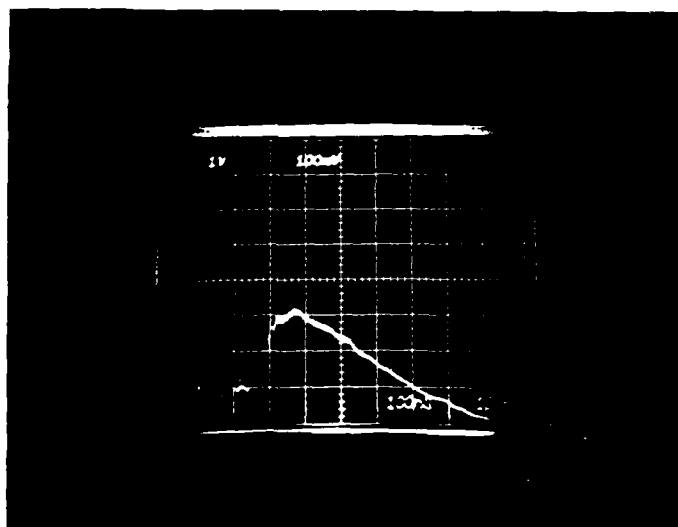


1565

TR 12A

Date 6-20-85
 Test Point TR13-T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V(2000 A/V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V(800 V) mV/div 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link
 Comments:

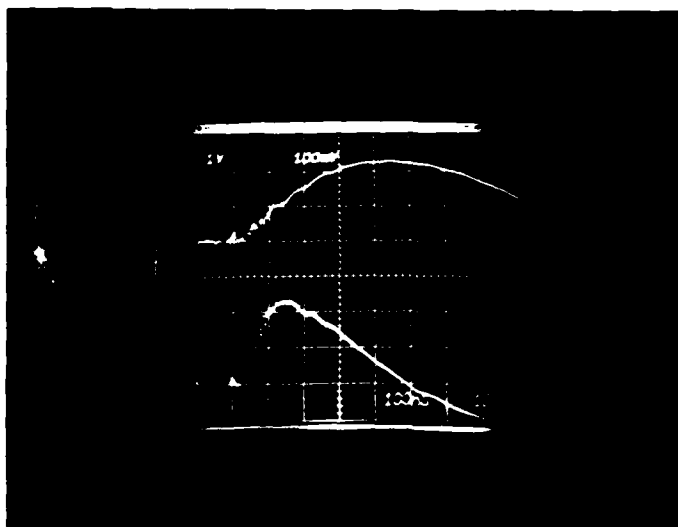
1566



TR 13

Date 6-20-85
 Test Point TR14-T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V(2000 A/V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V(800 V) mV/div 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link
 Comments:

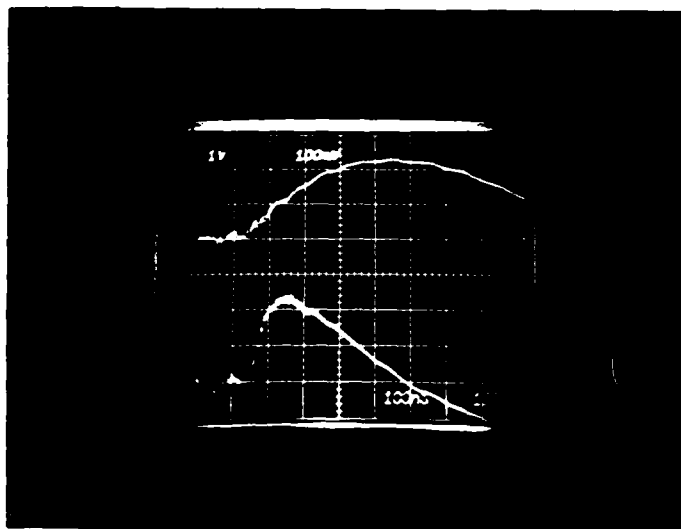
1566



TR 14

Date 6-20-85
 Test Point TR15 - T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V (800V) ns/div 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link
 Comments:

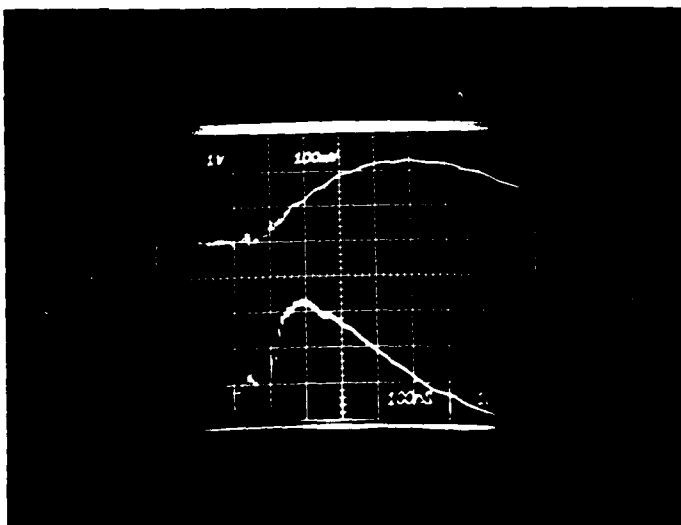
1567



TR 15

Date 6-20-85
 Test Point TR16 - T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 1V (2000V) ns/div 1
 Vertical 100NS mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V (800V) ns/div 2
 Configuration -20dB
 Pulsar Level 25 000 V
 Data Link
 Comments:

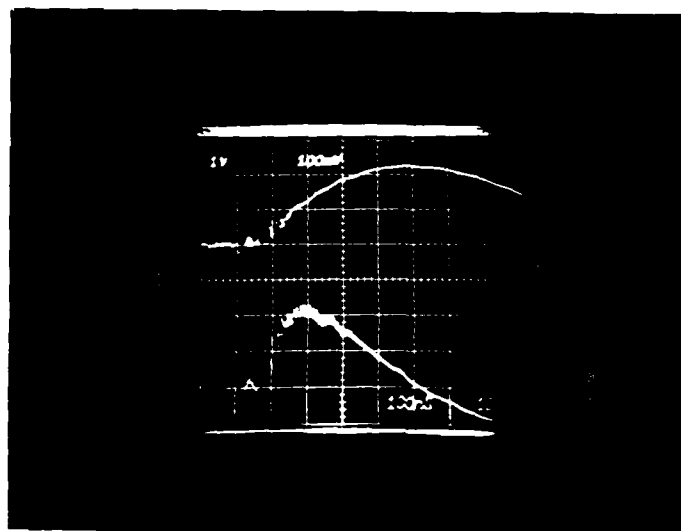
1568



TR 16

Date 6-20-85
 Test Point TR17-T25
 Amplification dB
 Attenuation dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000 μ V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V (800V) ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments:

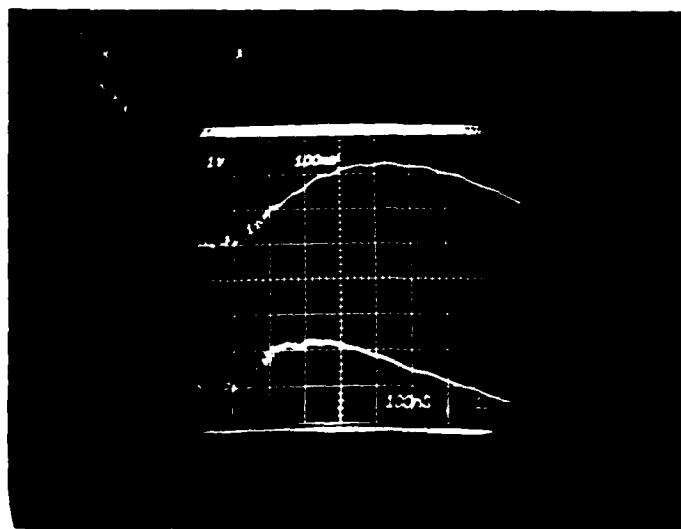
1569



TR 17

Date 6-20-85
 Test Point TR18-T25
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000 μ V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V (800V) ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments:

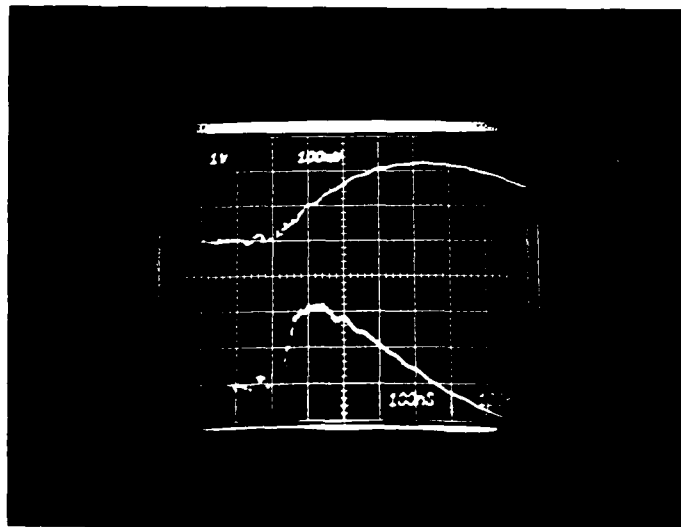
1570



TR 18

Date 6-20-85
 Test Point TR 19-T25-
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000V) ~~ns~~/div 1
 Horizontal 100 ns/div 2
 Vertical .01V (800V) ~~ns~~/div 2
 Configuration -20dB
 Pulsar Level 25000 V
 Data Link
 Comments:

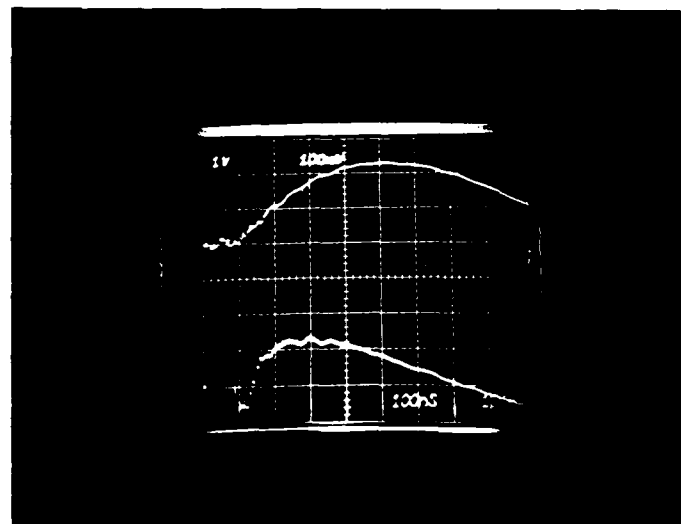
1571



TR 19

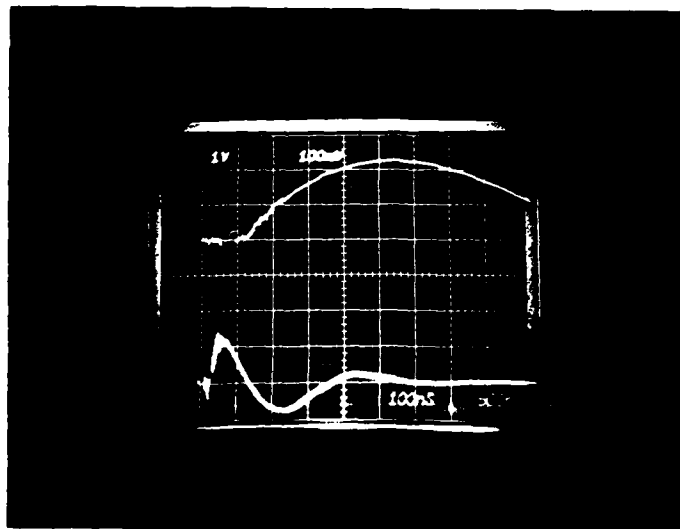
Date 6-20-85
 Test Point TR20-T25-
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000V) ~~ns~~/div 1
 Horizontal 100 ns/div 2
 Vertical .01V (800V) ~~ns~~/div 2
 Configuration -20dB
 Pulsar Level 25000 V
 Data Link
 Comments:

1572



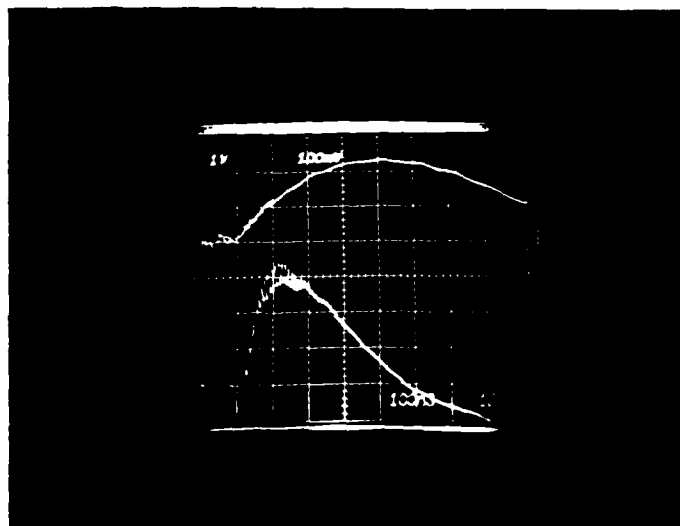
TR 20

Date 6-20-85
 Test Point TR20A - T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000 A/V) mV/div 1
 Horizontal 500 ns/div 2
 Vertical 1V (800 A/V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000V
 Data Link
 Comments:



TR 20A

Date 6-20-85
 Test Point TR 21 - T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000 A/V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V (800 A/V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000V
 Data Link
 Comments:

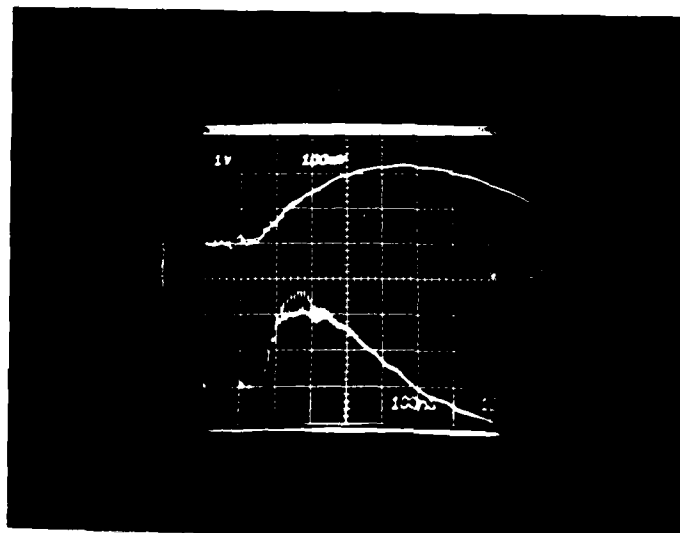


TR 21

1574

Date 6-20-85
 Test Point TR22-T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V (800V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000V
 Data Link
 Comments:

1575

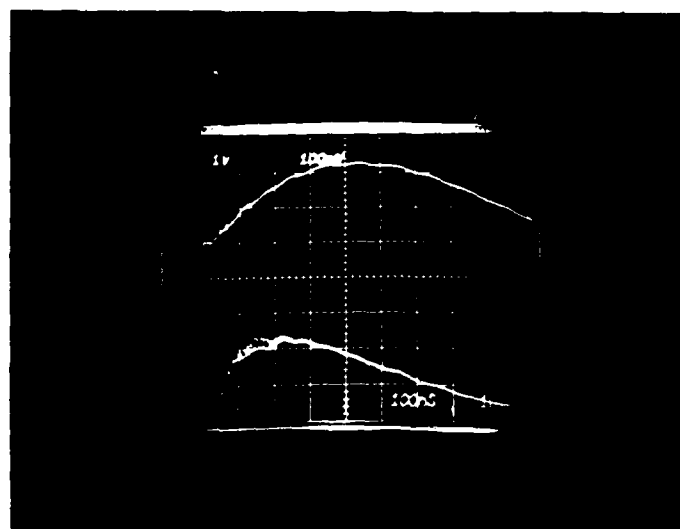


1575

TR 22

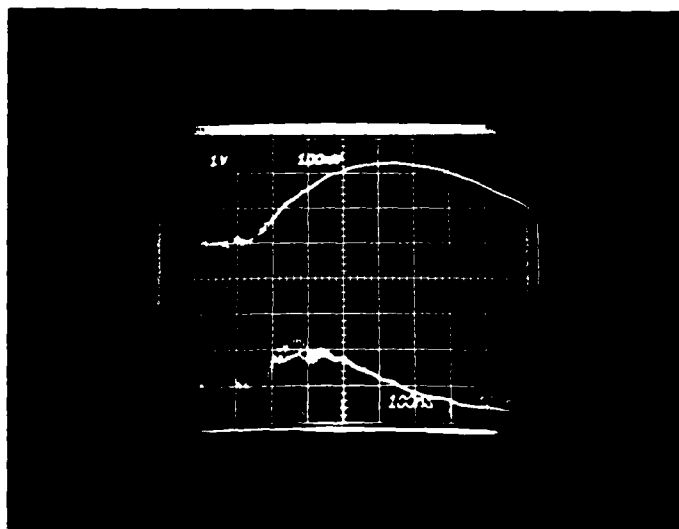
Date 6-20-85
 Test Point TR23-T25
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical 1V (800V) mV/div 2
 Configuration
 Pulsar Level
 Data Link
 Comments:

1576



TR 23

Date	6-20-85
Test Point	TR24-T25
Amplification	0 dB
Attenuation	40 dB
Horizontal	100 ns/div 1
Vertical	1V (2000 A/V) mV/div 1
Horizontal	100 ns/div 2
Vertical	1V (800V) ns/div 2
Configuration	-20 dB
Pulser Level	25000 V
Data Link	
Comments:	1577

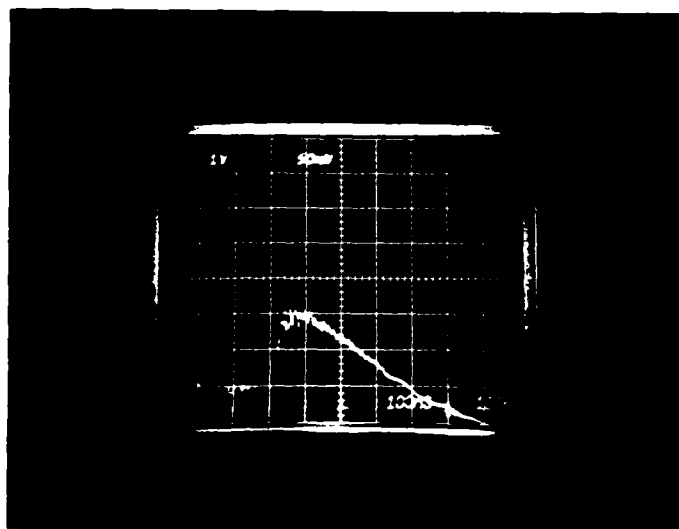


TR-24

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date 6-21-85
 Test Point TR25-T25-SC/GND
 Amplification 0 dB
 Attenuation -20 dB
 Horizontal 100 ns/div 1
 Vertical .05V (400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments:

1599

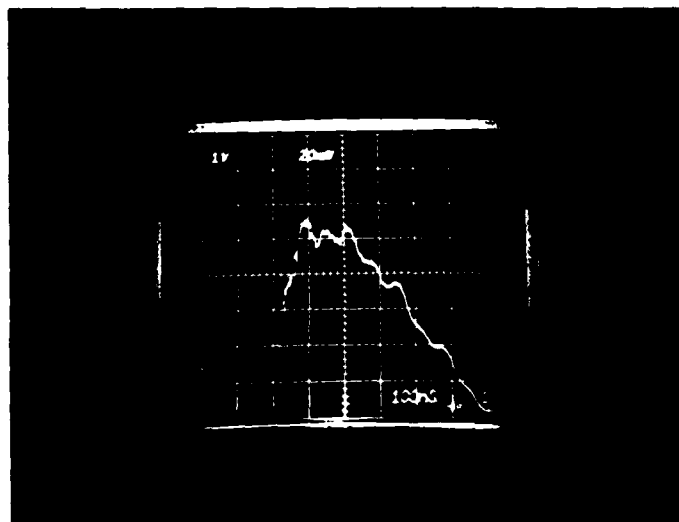


1595 TR 25

SC REF GND

Date 6-21-85
 Test Point TR-25-T25-1-φ
 Amplification 0 dB
 Attenuation -20 dB
 Horizontal 100 ns/div 1
 Vertical .02V (160V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments:

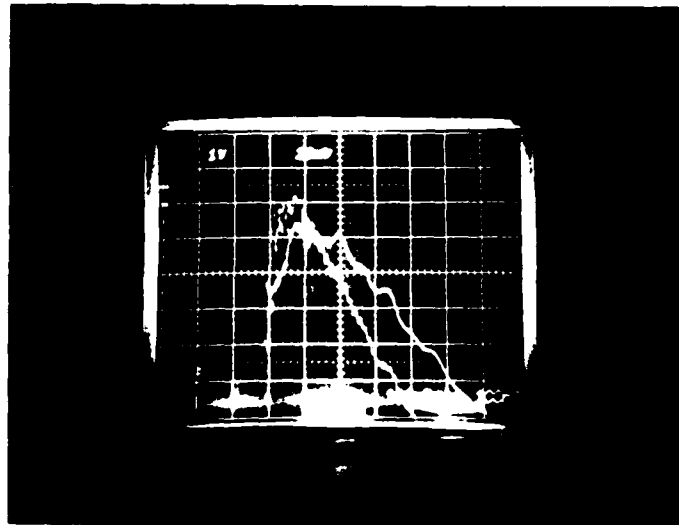
1596



1596 TR 25

DEVICE TR 25

Date	6-21-85		
Test Point	TR25- T25-		
Amplification	0	dB	
Attenuation	20	dB	
Horizontal	100	ns/div	1
Vertical	102V (160V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	25000V		
Data Link			
Comments:	1597		

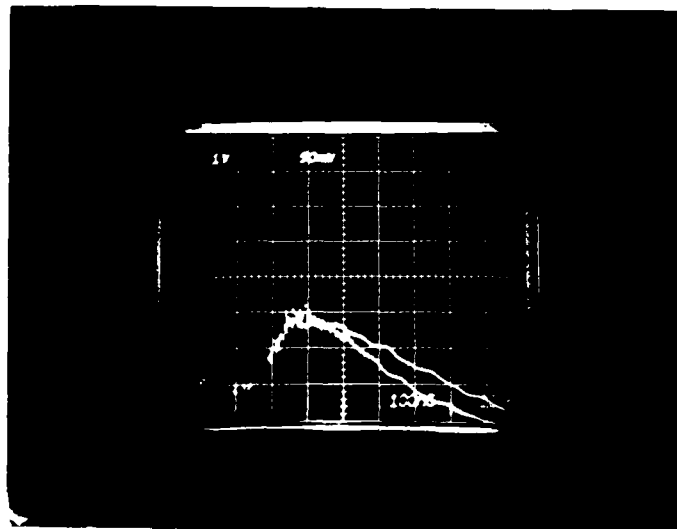


1597 TR25

Date			
Test Point			
Amplification		dB	
Attenuation		dB	
Horizontal		ns/div	1
Vertical		mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level			
Data Link			
Comments:			

Date	6-21-85
Test Point	TR25-T25
Amplification	0 dB
Attenuation	20 dB
Horizontal	100 ns/div 1
Vertical	.05V(400V) mV/div 1
Horizontal	ns/div 2
Vertical	.05V(400V) ns/div 2
Configuration	
Pulse Level	25000V
Data Link	
Comments:	

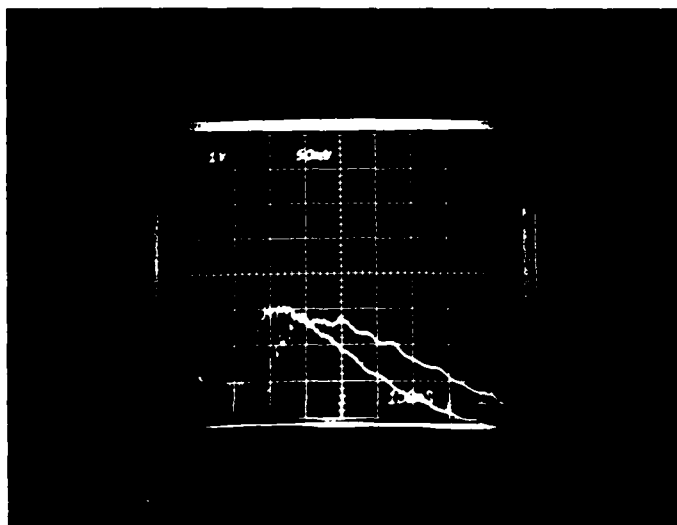
1594



1598 TR 25

DATA + GND

Date	6-21-85
Test Point	TR25-T25-
Amplification	0 dB
Attenuation	20 dB
Horizontal	100 ns/div 1
Vertical	.05V(400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25000V
Data Link	
Comments:	

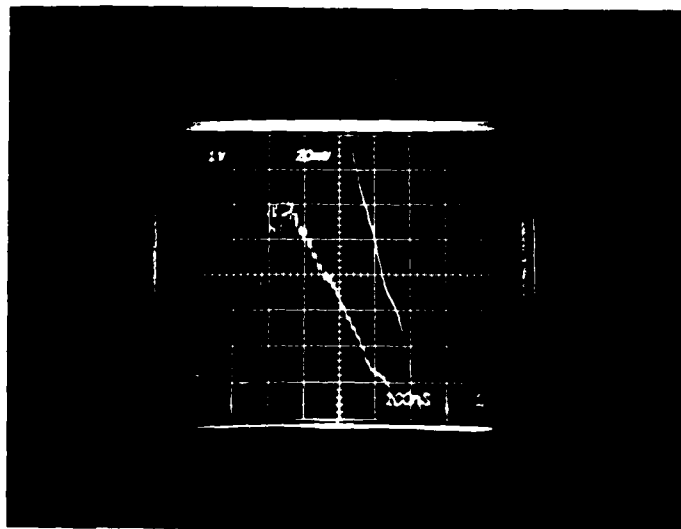


1599 TR 25

GND + DEVICE -

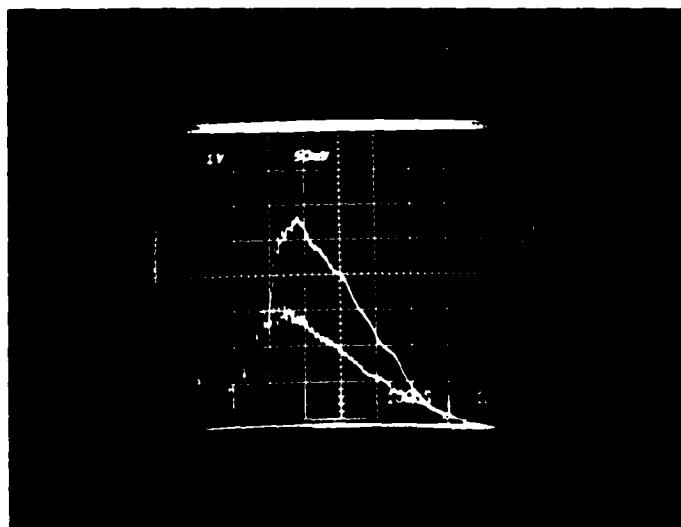
TR 25 = SG FAT COLL (CLOSE UP)

Date 6-21-85
 Test Point TR26 - T25
 Amplification dB
 Attenuation dB
 Horizontal 100 ns/div 1
 Vertical .02V(160V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments: 1600



1600 TR 26

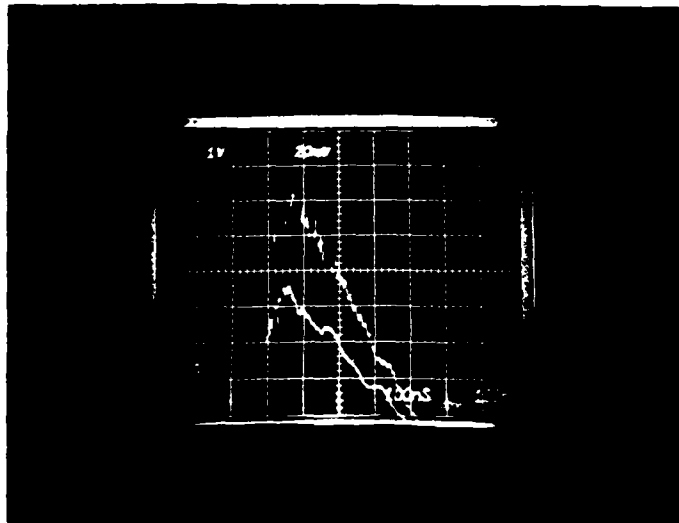
Date 6-21-85
 Test Point TR26 - T25
 Amplification dB
 Attenuation dB
 Horizontal 100 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical .05V(400V) mV/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments: 1601



1601 TR 26

TR 26 - SG + SMALL OPEN COIL

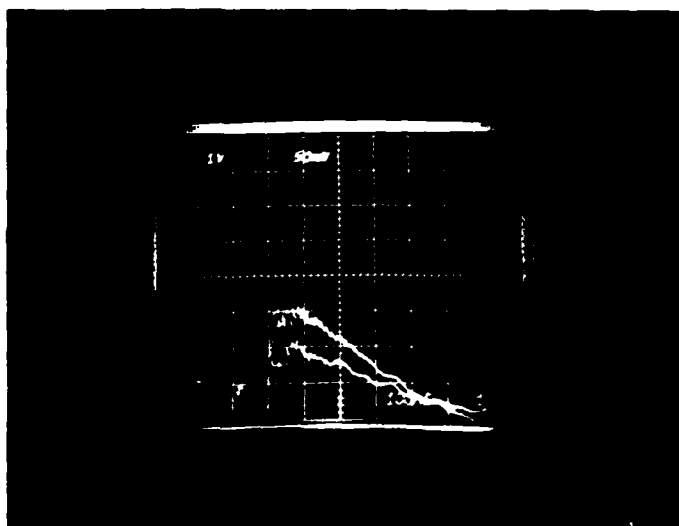
Date	6-21-85	
Test Point	TR 27 -	
Amplification	dB	
Attenuation	dB	
Horizontal	100	ns/div 1
Vertical	0.02V (160V)	mV/div 1
Horizontal		ns/div 2
Vertical		ns/div 2
Configuration		
Pulse Level		
Data Link		
Comments:		



1602

TR 27

Date	6-21-85	
Test Point	TR 27 -	
Amplification	dB	
Attenuation	dB	
Horizontal	100	ns/div 1
Vertical	0.02V	mV/div 1
Horizontal		ns/div 2
Vertical	0.05V (400V)	ns/div 2
Configuration		
Pulse Level		
Data Link		
Comments:		



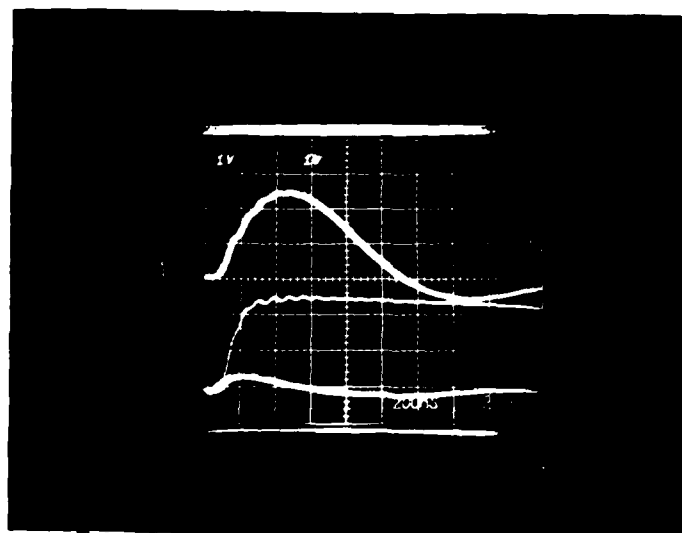
1603

TR 27

TR 27 = SG + BULLET COIL

Date 6-18-85
 Test Point 1 - T25 - 1/5 - ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulse Level 25,000 V
 Data Link
 Comments:

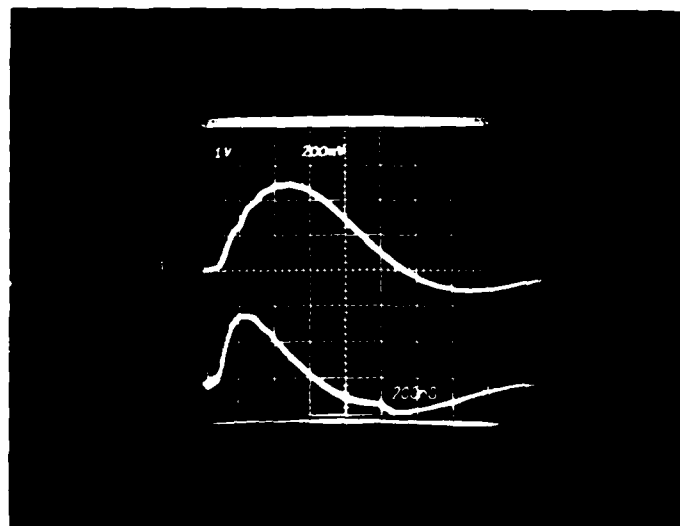
1468



1468

Date 6-18-85
 Test Point 1 - T25 - 9/10 - ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulse Level 25,000 V
 Data Link
 Comments:

1469

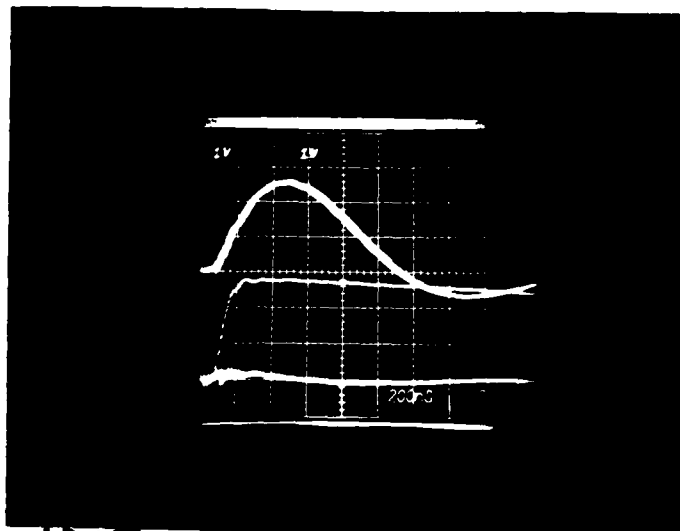


1469

VERTICAL @ .2V (1600V) per div.

Date 6-19-85
 Test Point 2-T25-1/5-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

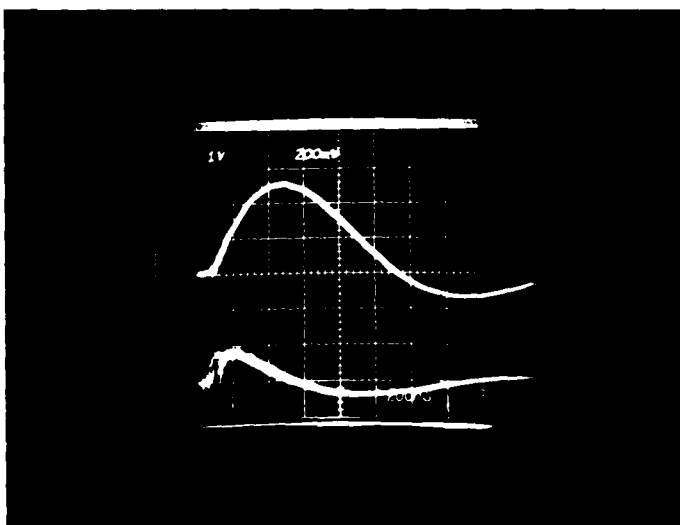
1507



1507

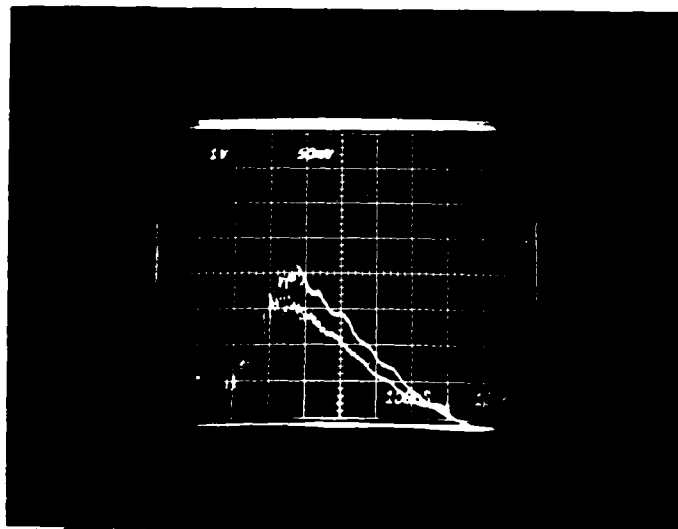
Date 6-19-85
 Test Point 2-T25-6/10-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

1508



1508

Date 6-21-85
 Test Point 3-T25- -Ø
 Amplification 0 dB
 Attenuation -20 dB
 Horizontal 100 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments: 1583



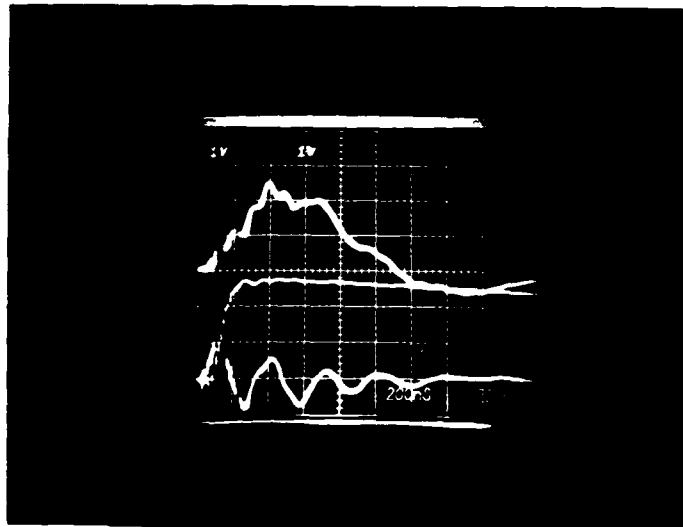
1583

DATA =
 SG GND =

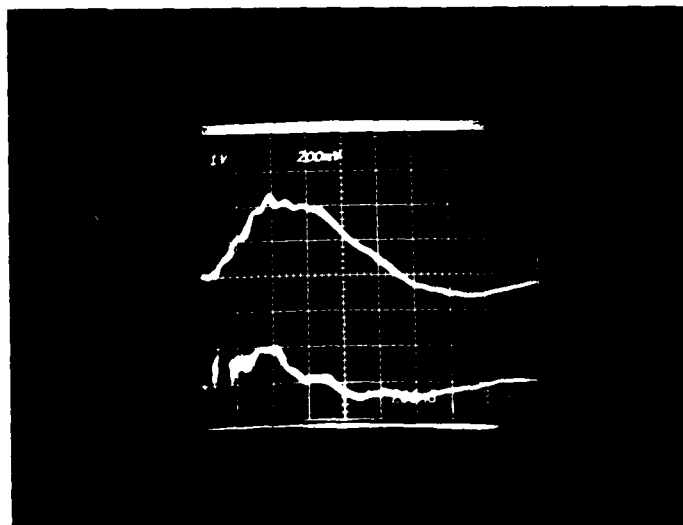
DATA + SC GND REF-

Date 6-21-85
 Test Point 3-T25- -Ø
 Amplification dB
 Attenuation dB
 Horizontal ns/div 1
 Vertical mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level
 Data Link
 Comments:

Date 6-19-85
 Test Point 3-T25-1/5-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



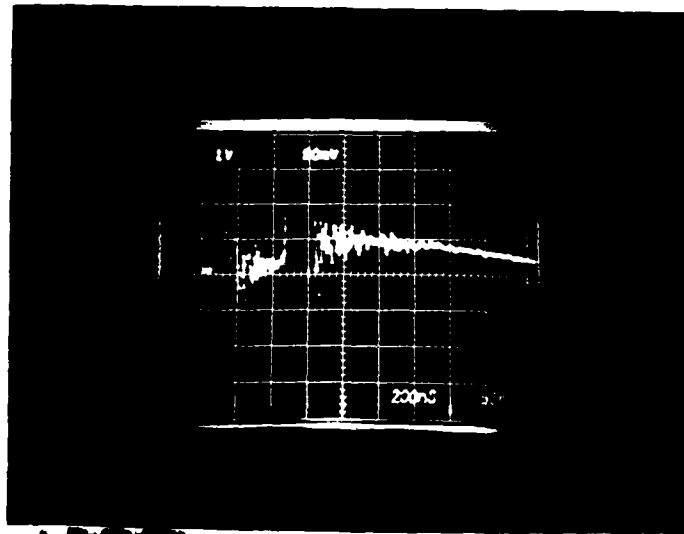
Date 6-19-85
 Test Point 3-T25-6/10-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



"PULSER RINGING"

Date 6-20-85
 Test Point 6-T25-R₁-Ø
 Amplification Ø dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level 25,000V
 Data Link
 Comments:

1555

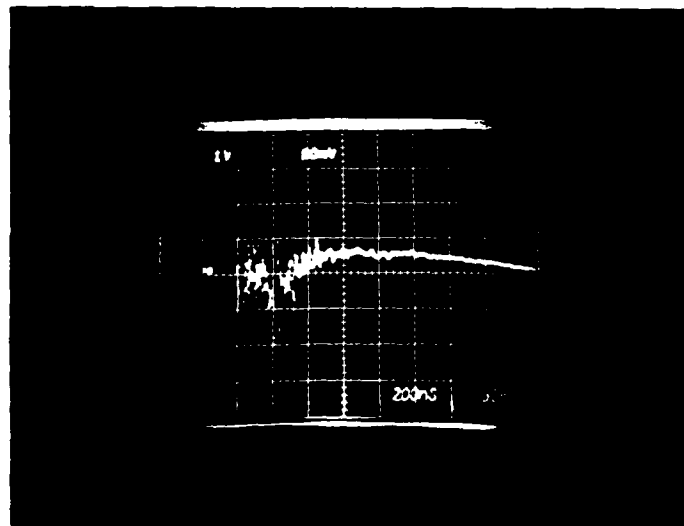


1555

~~W/GND REF~~

Date 6-20-85
 Test Point 6-T25-SC REF-
 Amplification Ø dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level 25000V
 Data Link
 Comments:

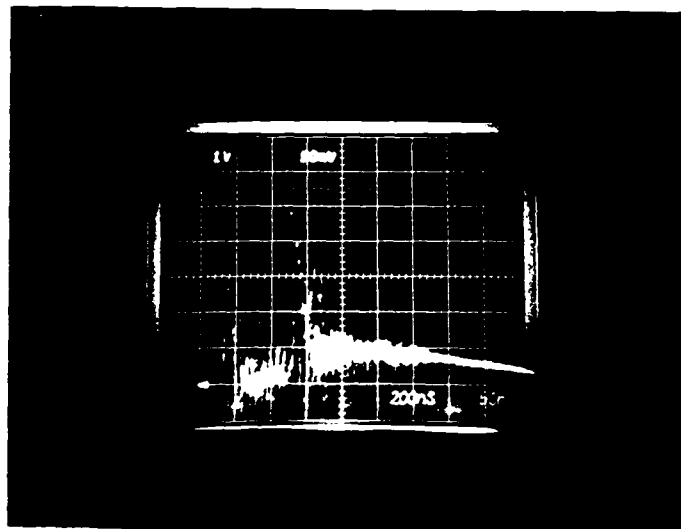
1554



1554

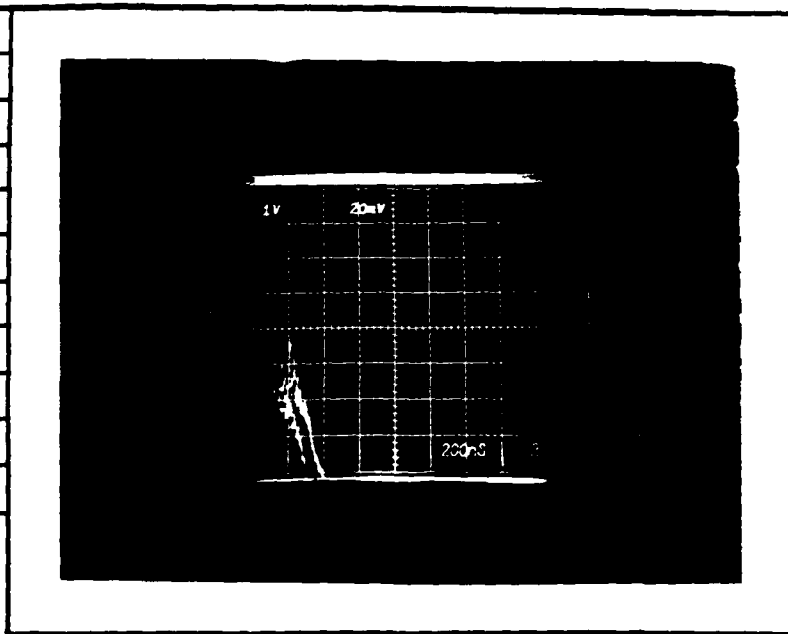
SC GND REF FOR 6 -

Date	6-20-85
Test Point	6-T25-R _{1/2} -φ
Amplification	8 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.05V(400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	25000V
Data Link	
Comments:	1556

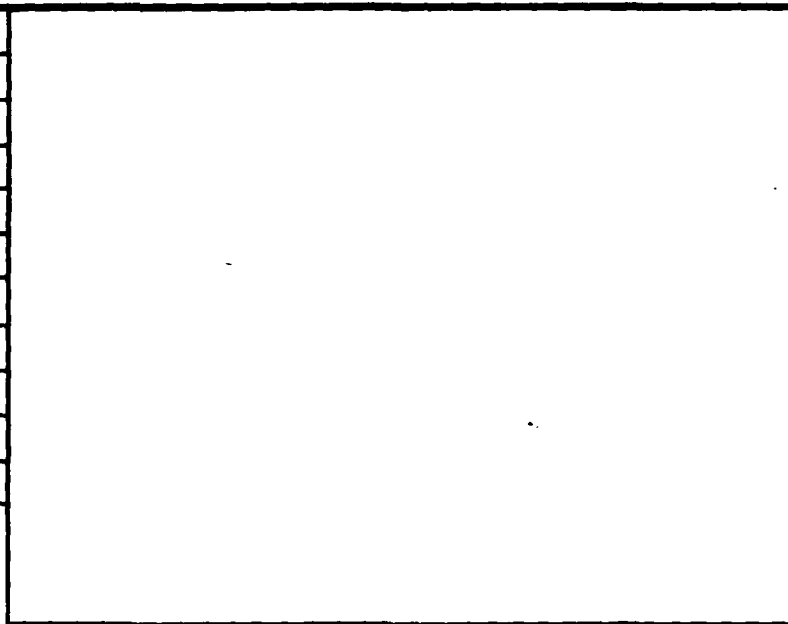


Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date	6-20-85
Test Point	6-T25-15-Ø
Amplification	0 dB
Attenuation	-20 dB
Horizontal	200 ns/div 1
Vertical	.02V(160V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	25,000V
Data Link	
Comments:	

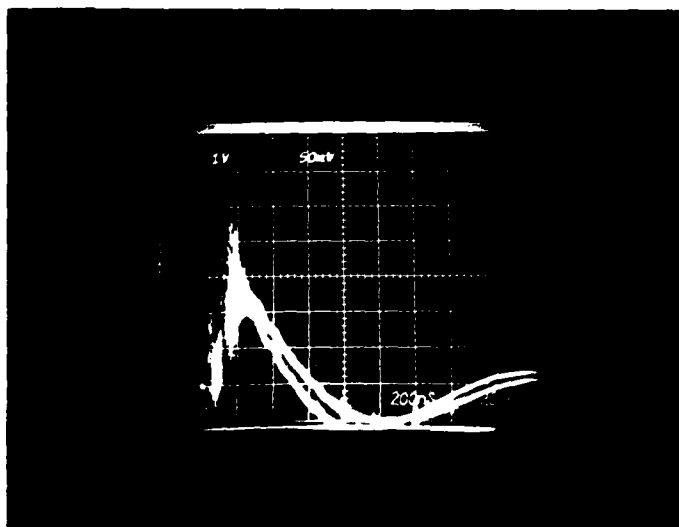


Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

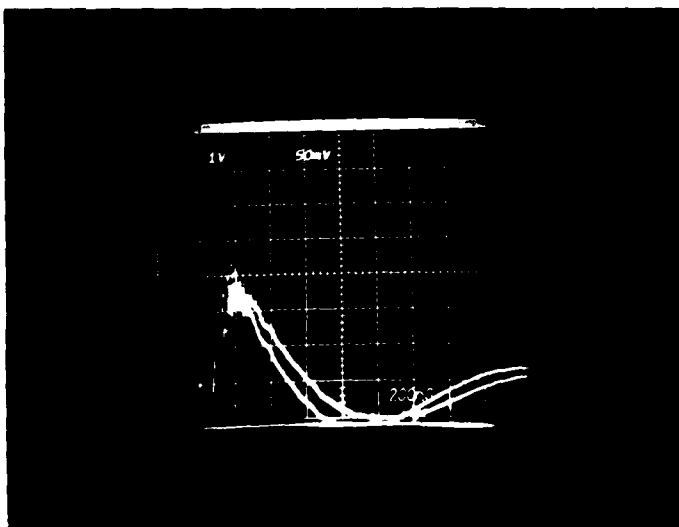


Date 6-20-85
 Test Point 6-T25-1/12-Ø
 Amplification 0 dB
 Attenuation -20 dB
 Horizontal 200 ns/div 1
 Vertical .05V(400V) /div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25,000V
 Data Link
 Comments:

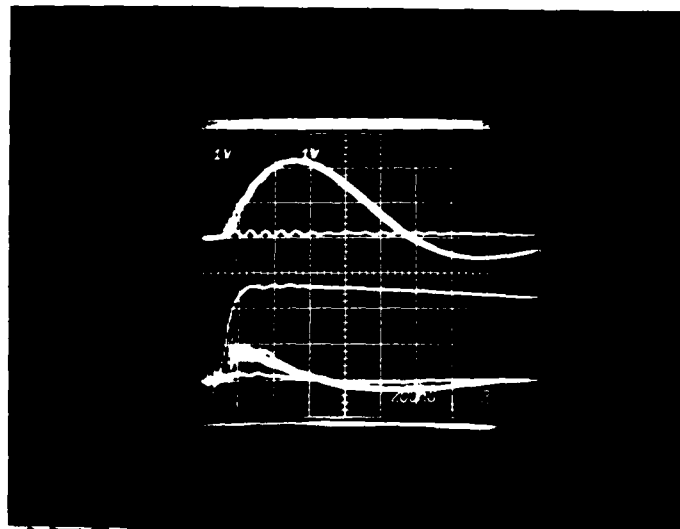
1527



Date 6-20-85
 Test Point 6-T25-14-Ø
 Amplification 0 dB
 Attenuation -20 dB
 Horizontal 200 ns/div 1
 Vertical .05V(400V) /div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25,000V
 Data Link
 Comments:

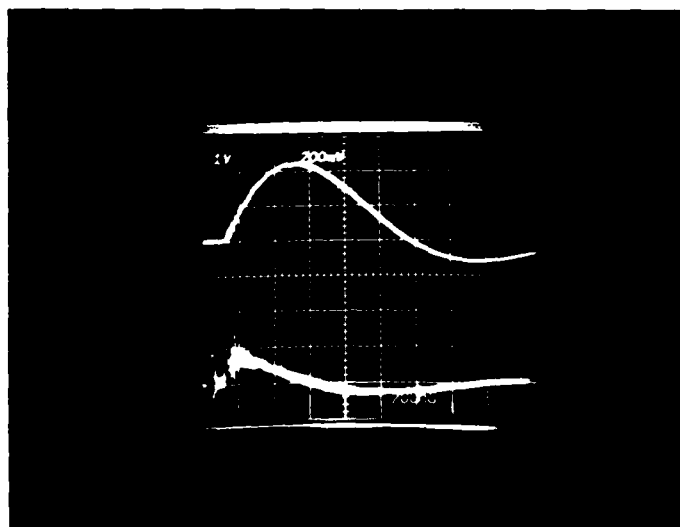


Date 6-20-85
 Test Point 6-T25-1/5-Φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



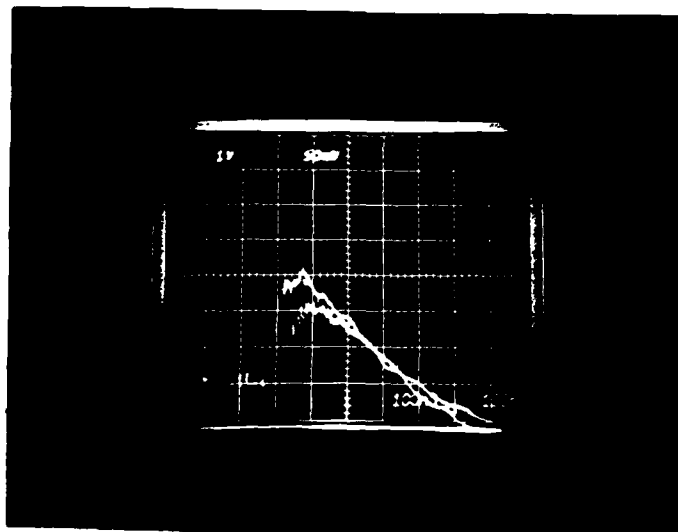
1525

Date 6-20-85
 Test Point 6-T25-6/10-Φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1526

Date	6-21-85
Test Point	7-T25-R/I-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	100 ns/div 1
Vertical	.05 ^V (400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25000V
Data Link	
Comments:	034

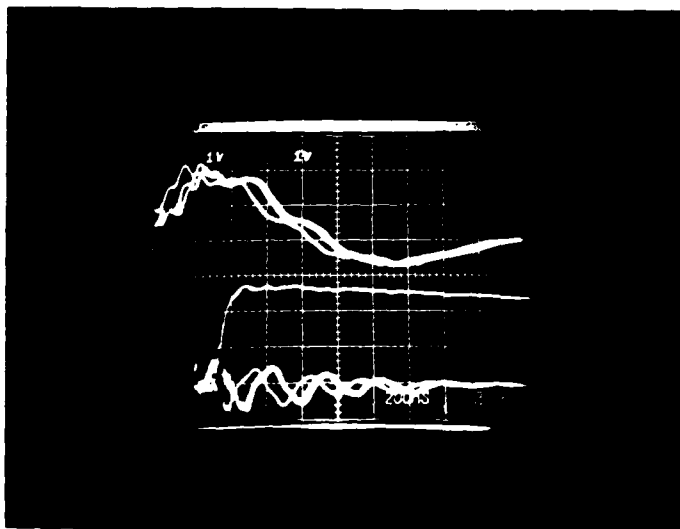


DATA = 1150
 SG GND = 800
350V

DATA+ SC GND REF -

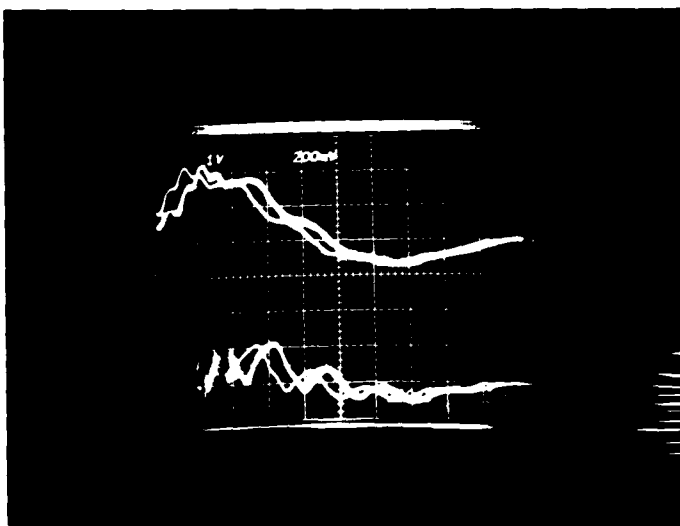
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	

Date	6-19-85
Test Point	7-T25-1/5-φ
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V(2000A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V(8000V) ns/div 2
Configuration	-20dB
Pulse Level	25,000 V
Data Link	
Comments:	



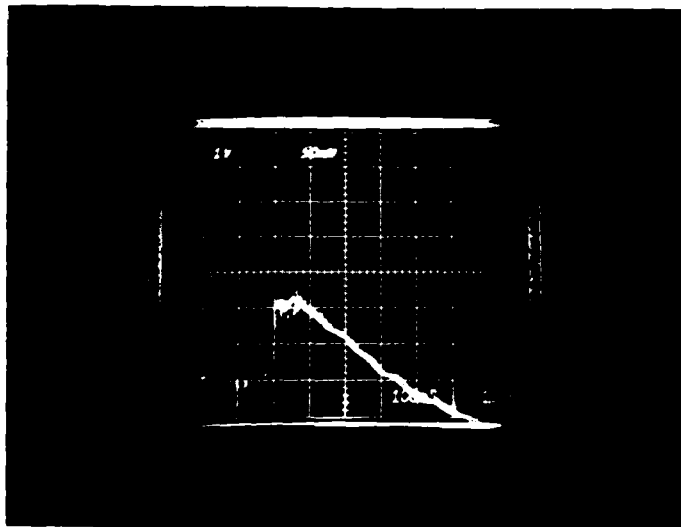
1523

Date	6-19-85
Test Point	7-T25-6/10-φ
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V(2000A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	.2V(1600V) mV/div 2
Configuration	-20dB
Pulse Level	25,000 V
Data Link	
Comments:	



1524

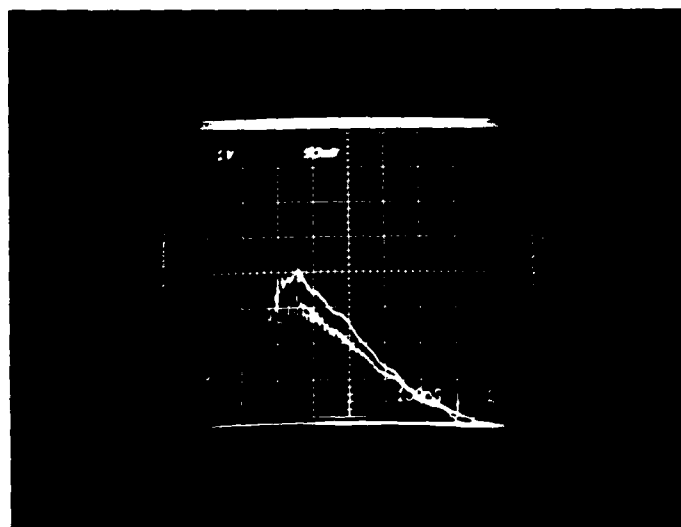
Date	6-21-95		
Test Point	8-T25-R/1-0		
Amplification	0	dB	
Attenuation	20	dB	
Horizontal	100	ns/div	1
Vertical	.05V (400V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulse Level	25000 V		
Data Link			
Comments:	1586		



1586

DATA + SC GND REF

Date			
Test Point			
Amplification		dB	
Attenuation		dB	
Horizontal		ns/div	1
Vertical		mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulse Level			
Data Link			
Comments:	1587		



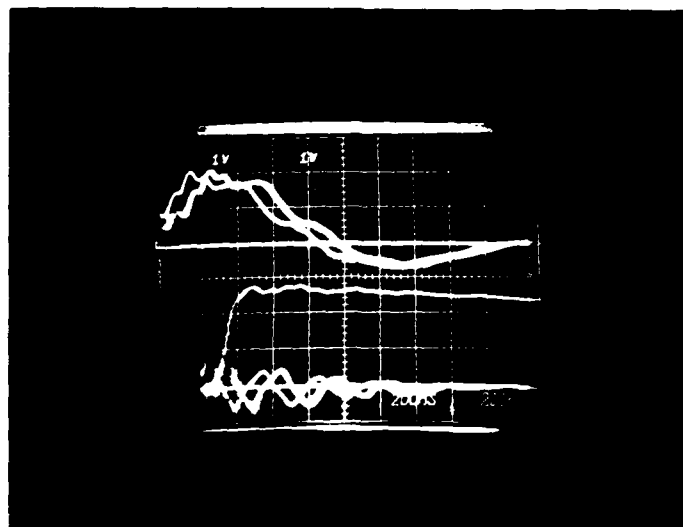
1587

REPEAT ABOVE

Date 6-19-85
 Test Point 8-T25-1/5-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link

Comments:

1521

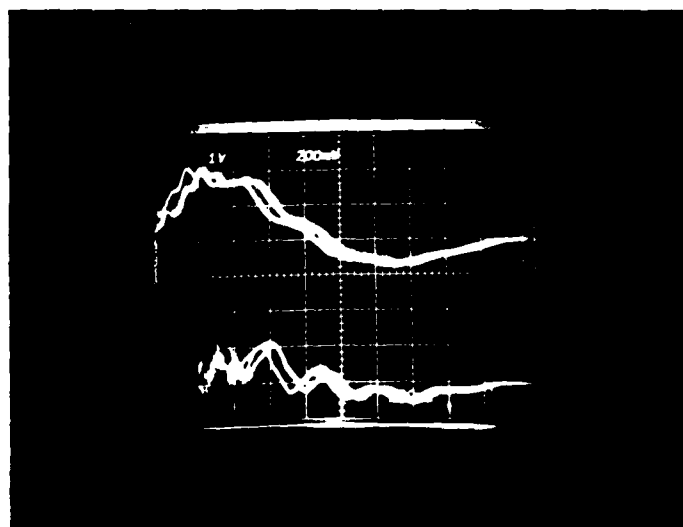


1521

Date 6-19-85
 Test Point 8-T25-6/10-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) ns/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link

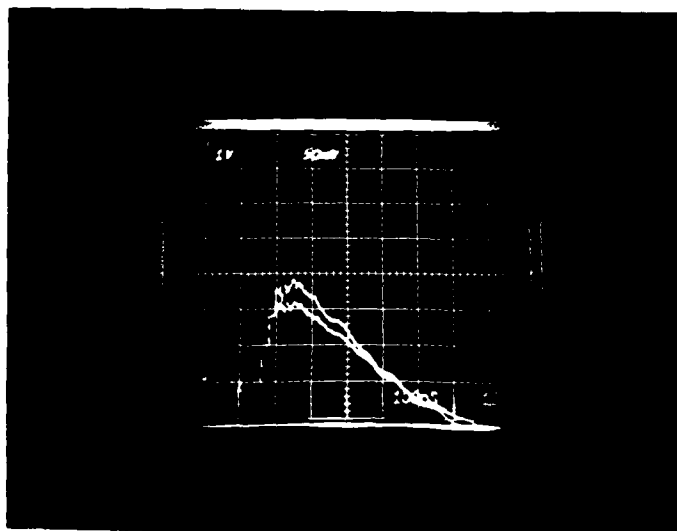
Comments:

-12



1522

Date 6-21-85
 Test Point 9-T25-R1-Ø
 Amplification 0 dB
 Attenuation -20 dB
 Horizontal 100 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments:

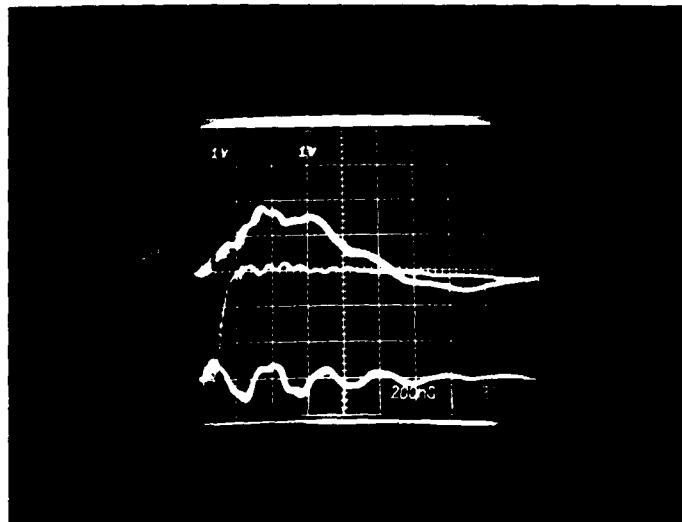


DATA + SC GND REF -

$$\begin{array}{r}
 \text{DATA} = 1100 \\
 \text{GND} = 800 \\
 \hline
 300 \text{ V}
 \end{array}$$

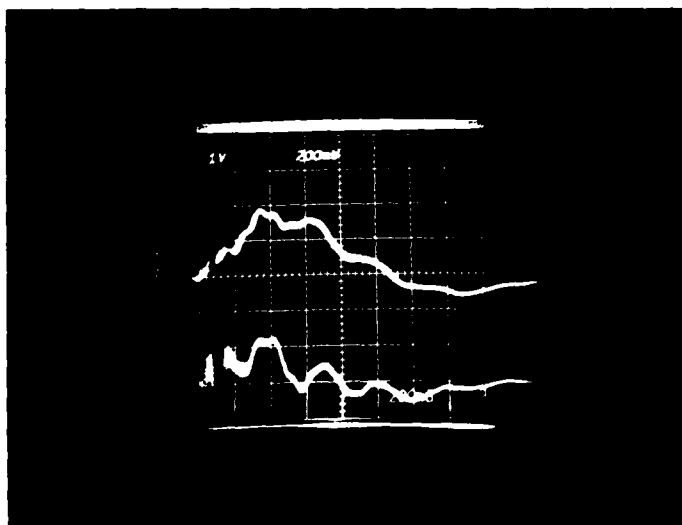
Date
 Test Point
 Amplification dB
 Attenuation dB
 Horizontal ns/div 1
 Vertical mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level
 Data Link
 Comments:

Date 6-19-85
 Test Point 9-T25-1/5-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



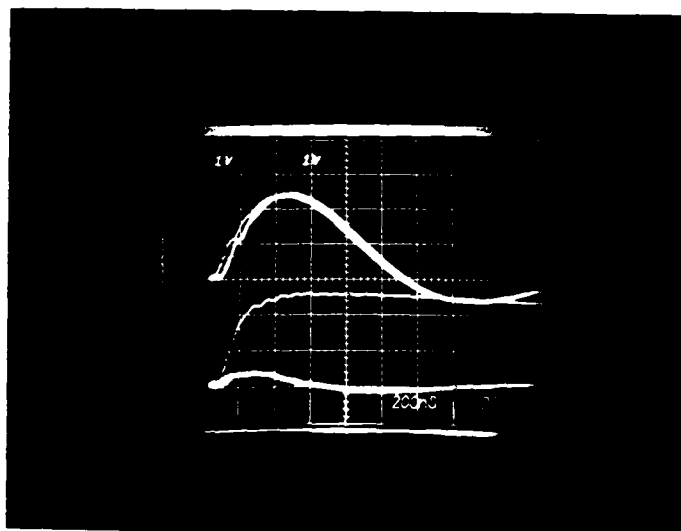
1519

Date 6-19-85
 Test Point 9-T25-6/10-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1520

Date 6-17-85
 Test Point 10-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1357



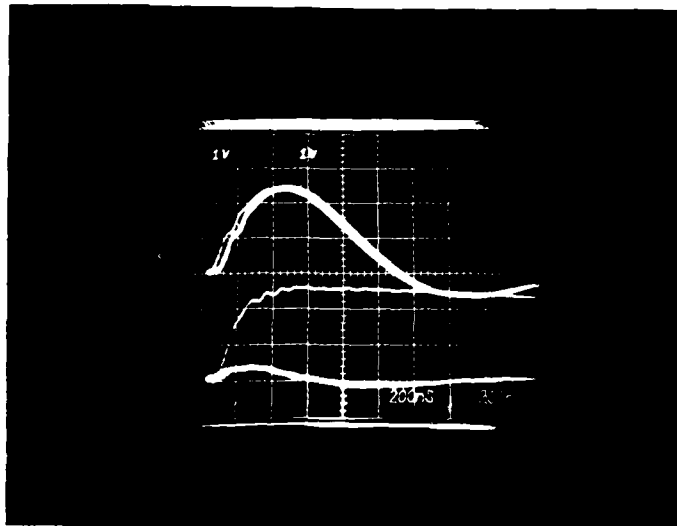
1357

Date 6-17-85
 Test Point 10-T25-910-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1358



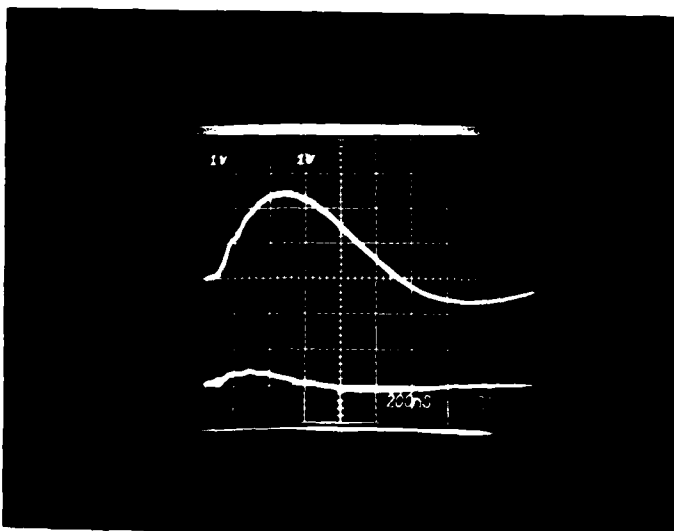
1358

Date 6-17-85
 Test Point 10-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



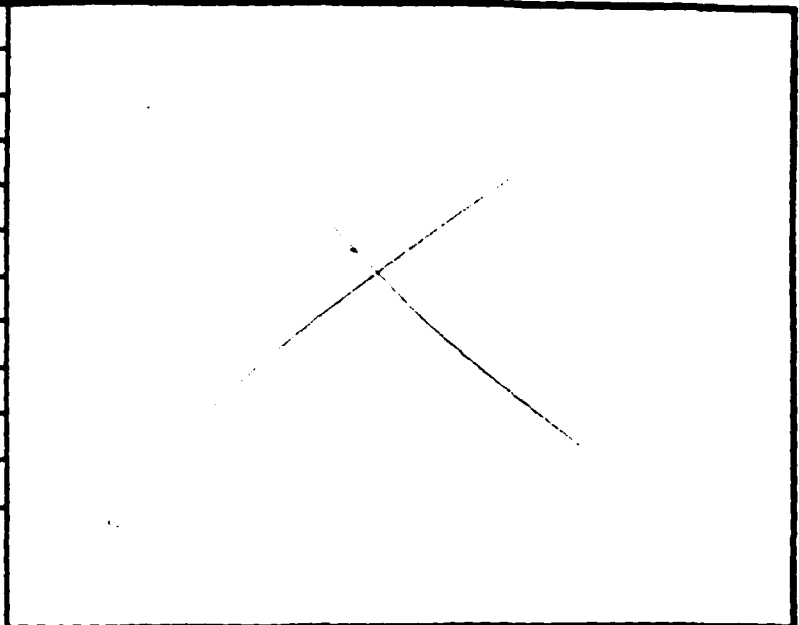
1359

Date 6-17-85
 Test Point 10-T25-1/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

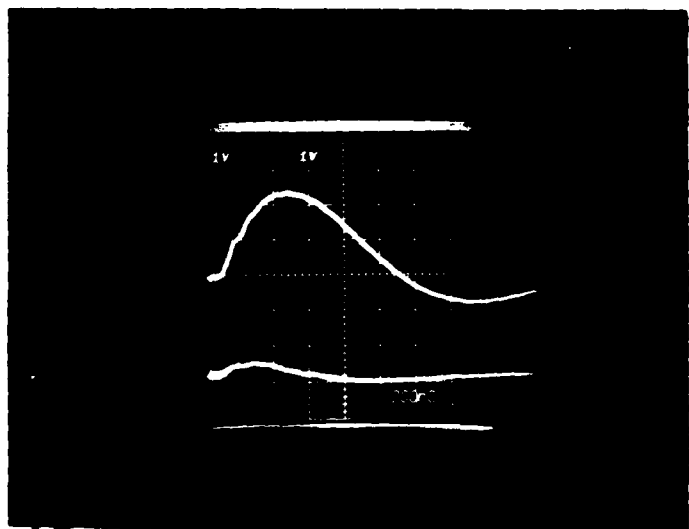


1360

Date 6-17-85
 Test Point 10-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1361
 1362



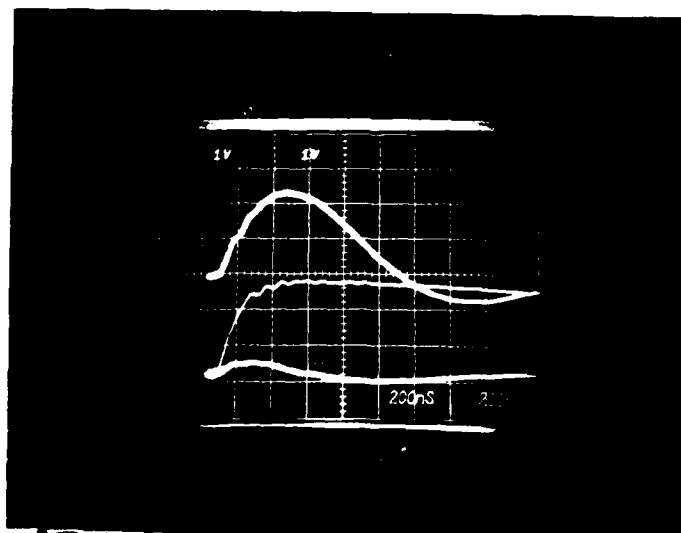
Date 11/15
 Test Point 10-T25-4A-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1363



Date 6-17-85
 Test Point 10-T25-15-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

Comments:

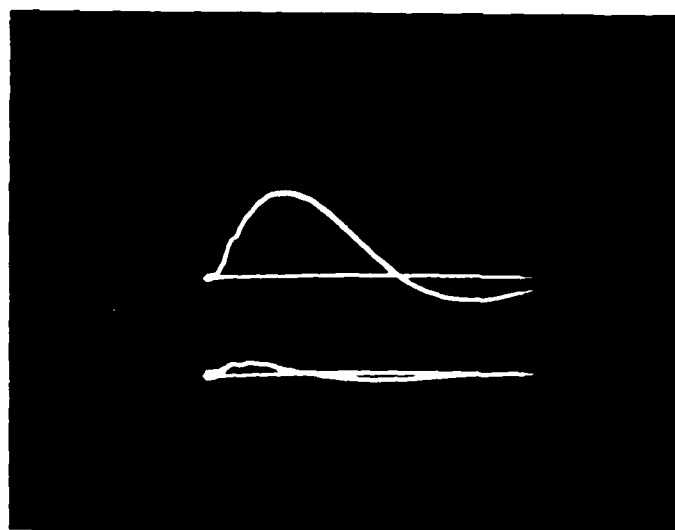
1364



1364

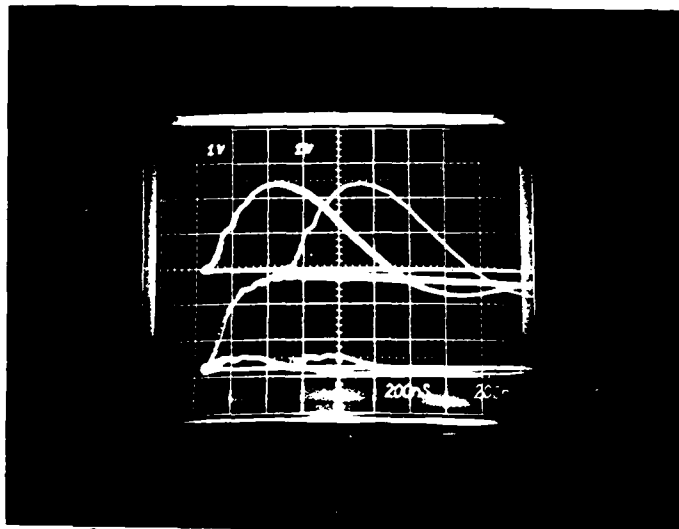
Date
 Test Point 10-T25-910-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

1365



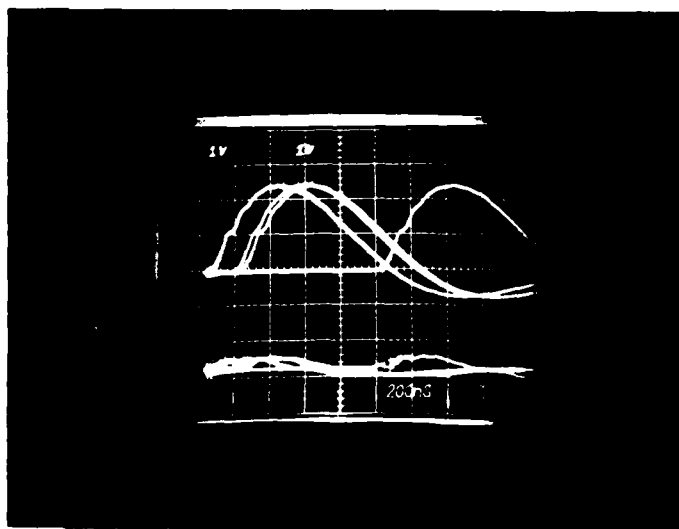
1365

Date 6-17-85
 Test Point 10-T25-1/5-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link _____
 Comments: 1366



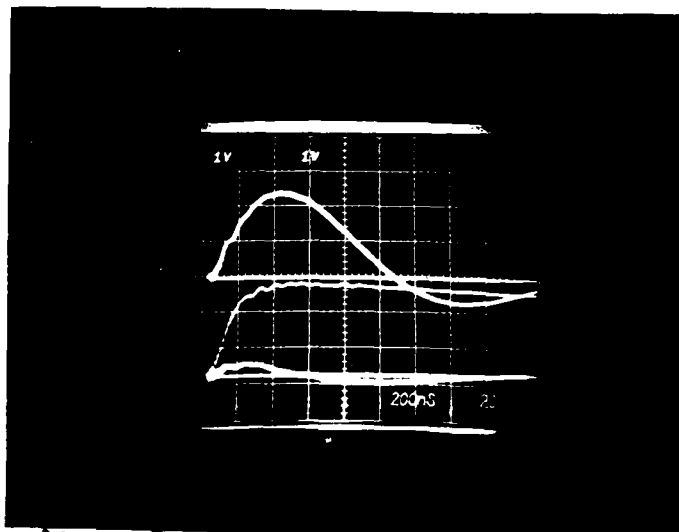
1366

Date _____
 Test Point 10-T25-9/10-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link _____
 Comments: 1367



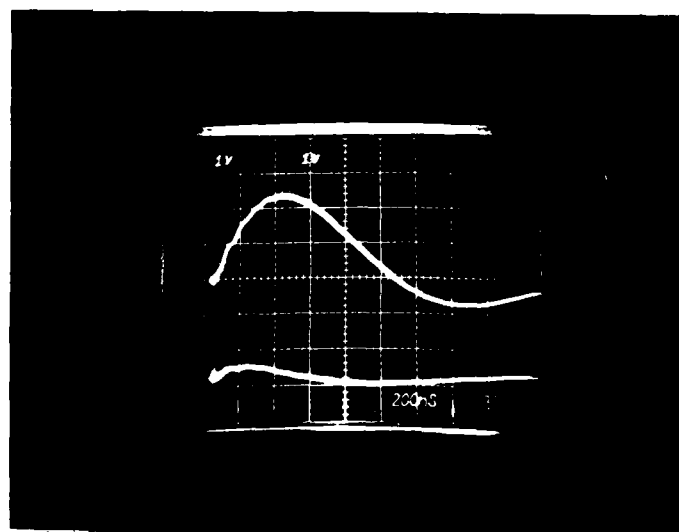
1367

Date 6-17-85
 Test Point 11-T25-1/5-J
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~m~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~m~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1376



1376

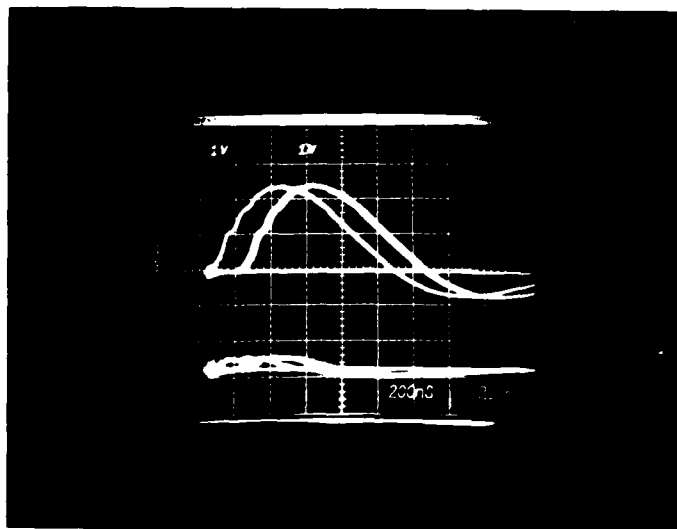
Date 6-17-85
 Test Point 11-T25-9/10-J
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~m~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~m~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1377



1377

Date 6-17-85
 Test Point 11-T25-1/5-F
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) =/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) =/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

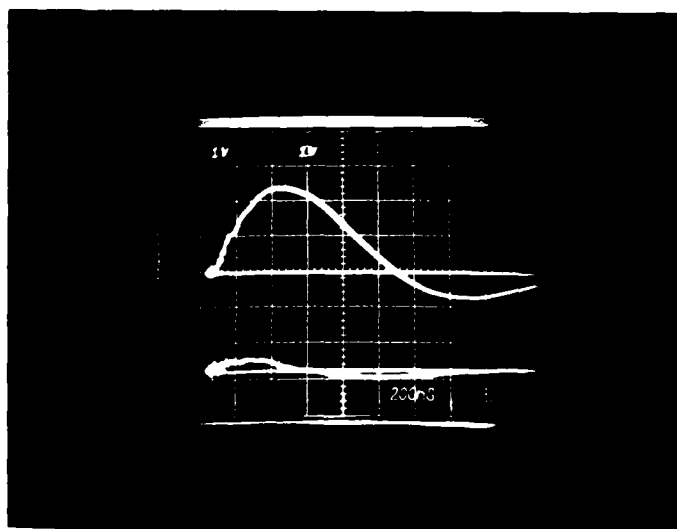
1368



1368

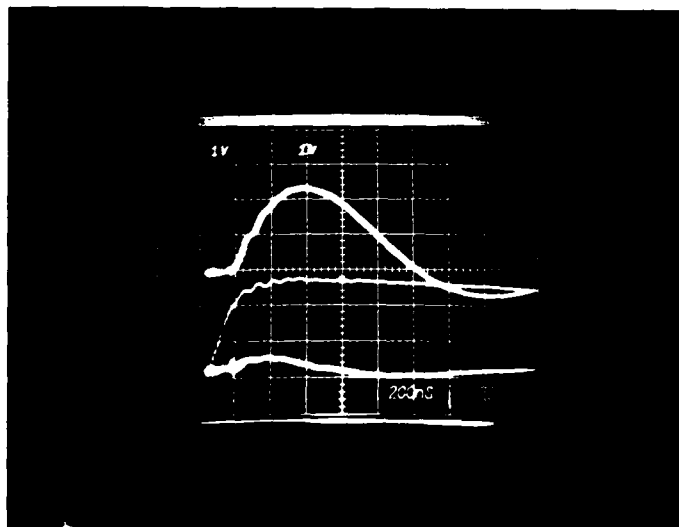
Date 6-17-85
 Test Point 11-T25-9/10-F
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) =/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) =/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

1369



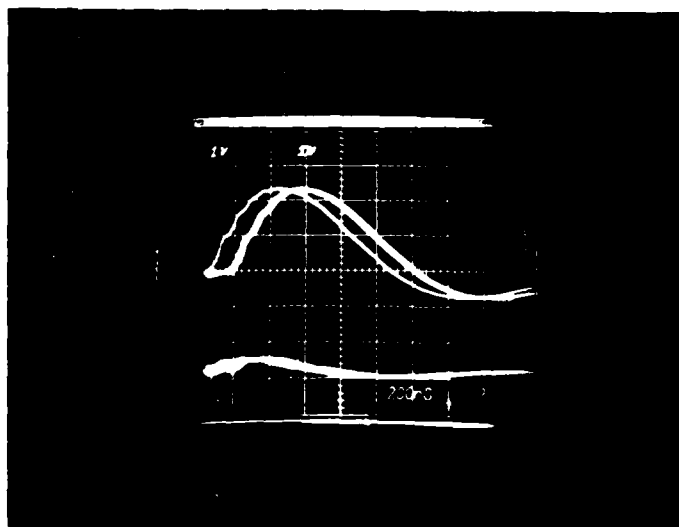
1369

Date	6-17-85
Test Point	11-T25-1/5-G
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) μ A/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) μ V/div 2
Configuration	-20 dB
Pulse Level	25,000 V
Date Link	
Comments:	1370



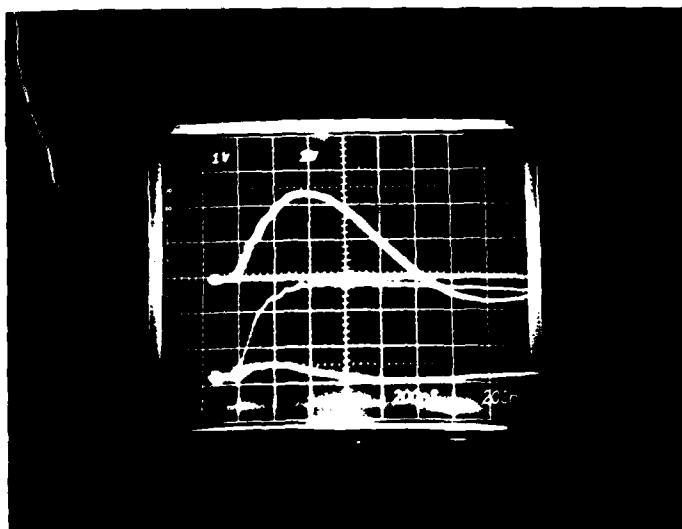
1370

Date	6-17-85
Test Point	11-T25-910-G
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) μ A/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) μ V/div 2
Configuration	-20 dB
Pulse Level	25,000 V
Date Link	
Comments:	1371



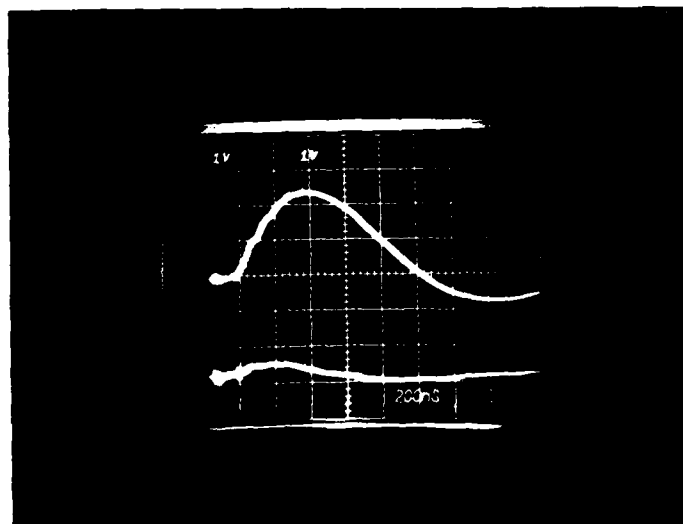
1371

Date 6-17-85
 Test Point 11-T25-1/5-H
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



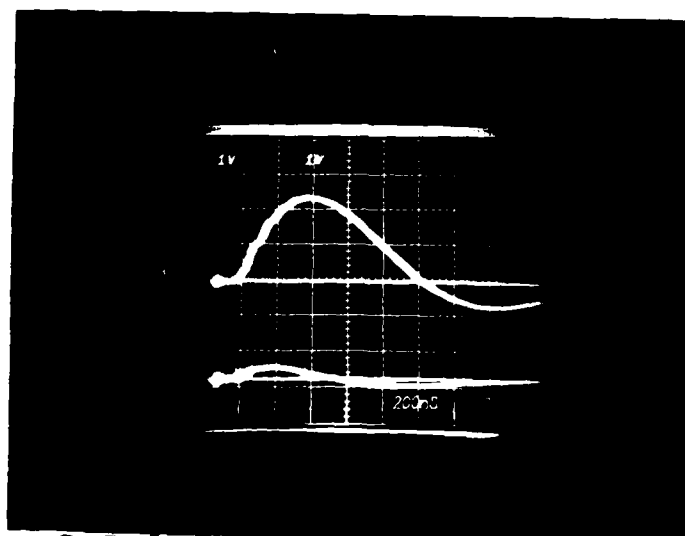
1372

Date 6-17-85
 Test Point 11-T25-1/10-H
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



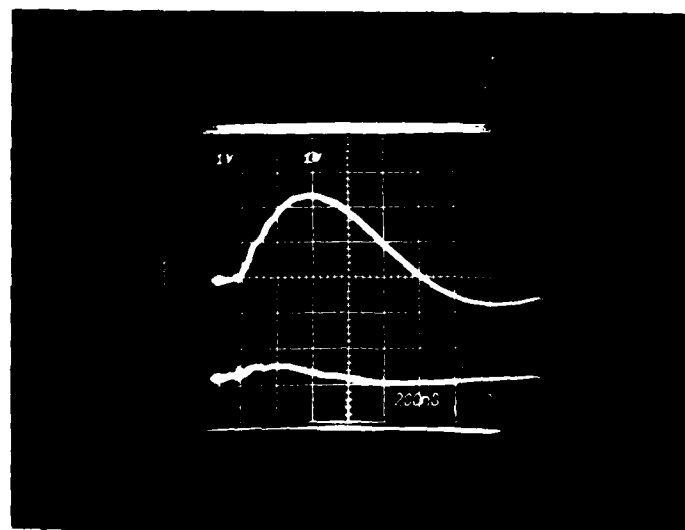
1373

Date	6-17-85
Test Point	11-T25-15-I
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) 1 /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) 1 /div 2
Configuration	-20 dB
Pulser Level	25,000 V
Data Link	
Comments:	



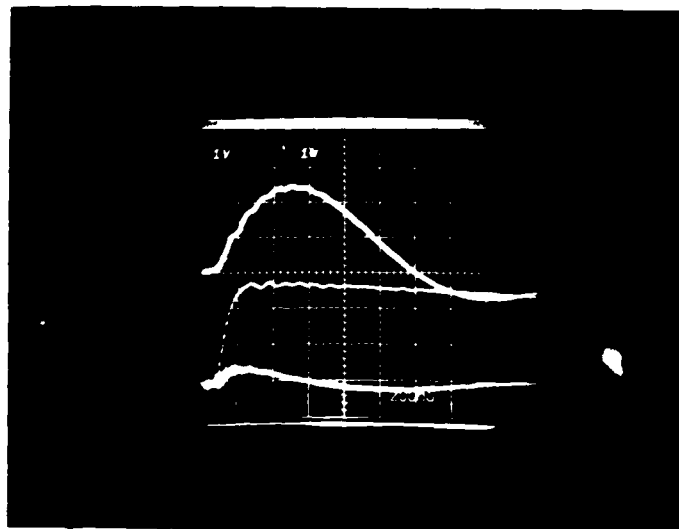
1374

Date	6-17-85
Test Point	11-T25-910-I
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) 1 /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) 1 /div 2
Configuration	-20 dB
Pulser Level	25,000 V
Data Link	
Comments:	



1375

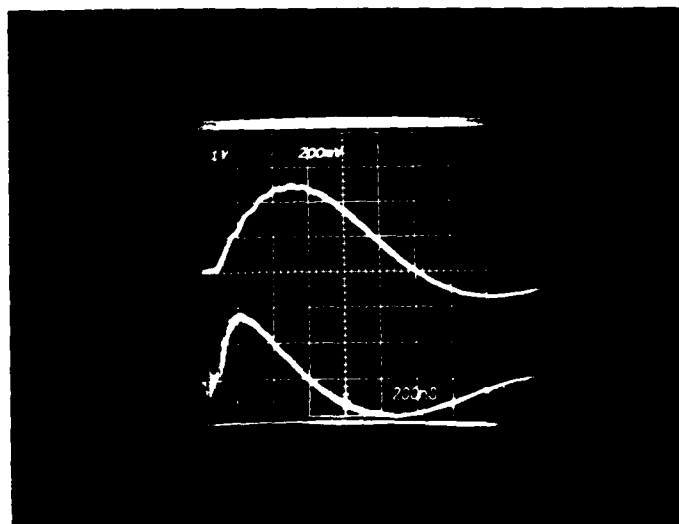
Date	6-18-85
Test Point	12-T25-1/5- ϕ
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V(2000A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V(8000V) as/div 2
Configuration	-20 dB
Pulser Level	25000V
Data Link	
Comments:	1478



1478

"COMMON" LEAD TEST

Date	6-18-85
Test Point	12-T25-1/10- ϕ
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V(2000A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	.2V(1600V) as/div 2
Configuration	-20 dB
Pulser Level	25,000V
Data Link	
Comments:	1479

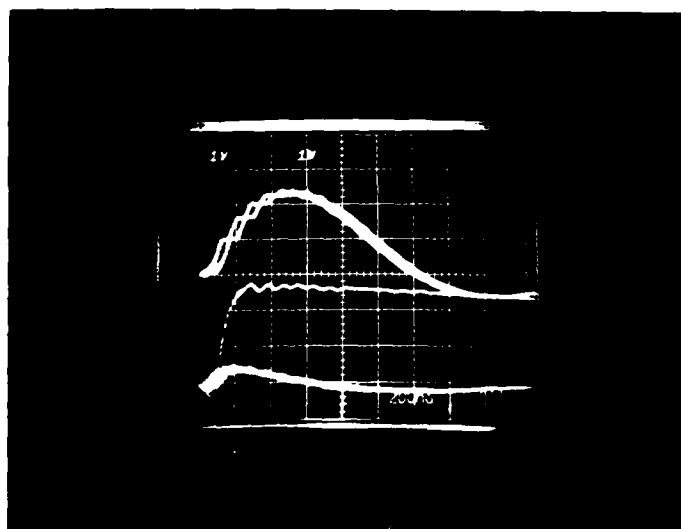


1479

"COMMON" LEAD TEST

Date 6-18-85
 Test Point 12-T25-1/5-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

Comments:
 JOSLYN

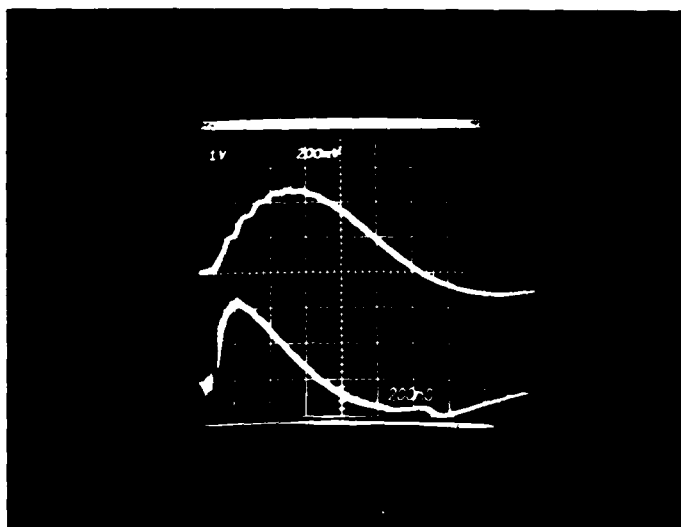


1476

"HOT" LEAD

Date 6-18-85
 Test Point 12-T25-910-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

Comments: JOSLYN-



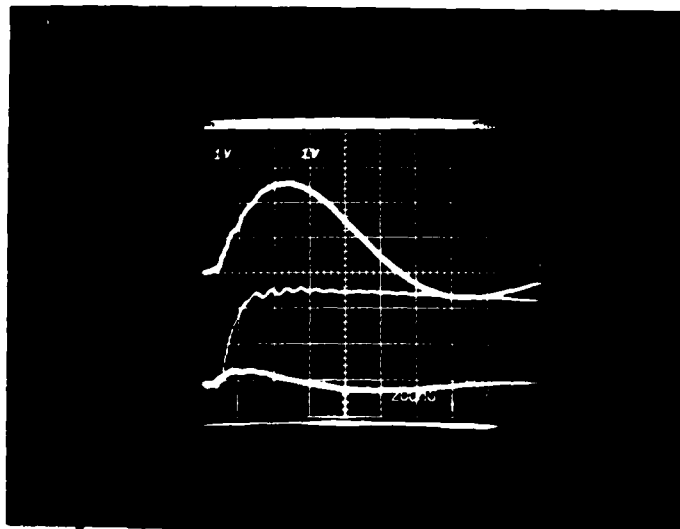
1477

"HOT" LEAD

VERTICAL Y @ .2V (1600V) per div.

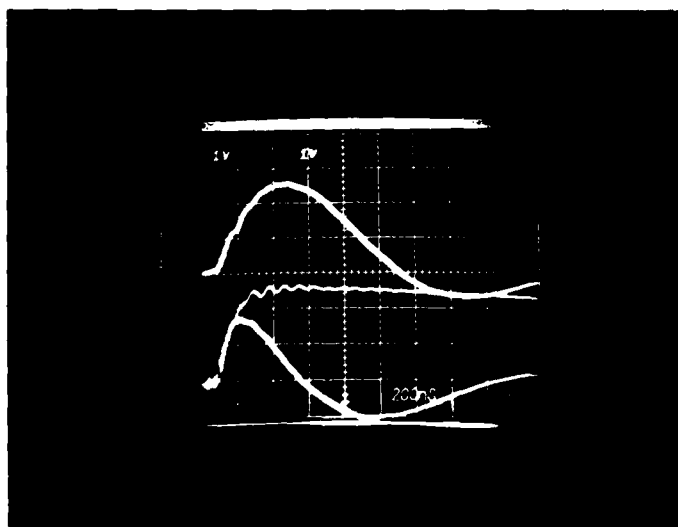
ARC BETWEEN FRONT + BACK PLATES / COVERS.

Date 6-18-85
 Test Point 14-T25-1/5- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1470



1470

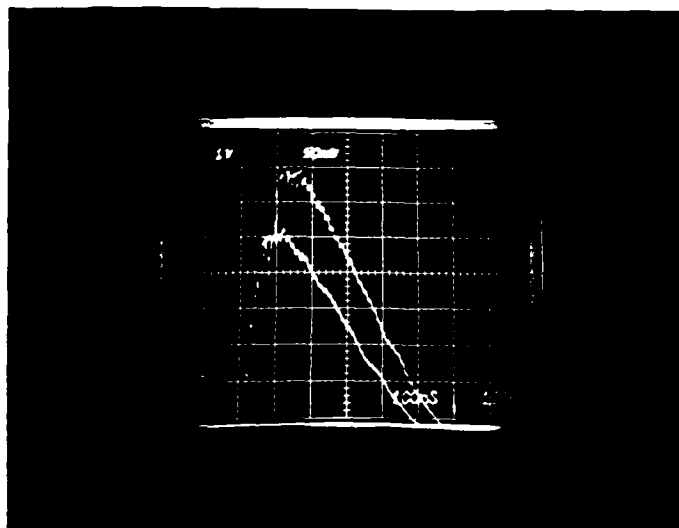
Date 6-18-85
 Test Point 14-T25-9/10- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (8000V)~~ ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1471



1471

VERTICAL @ .2V (1600 V) per div.

Date	6-21-85
Test Point	19-T25-R1-A
Amplification	0 dB
Attenuation	20 dB
Horizontal	100 ns/div 1
Vertical	.05V(400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25000V
Data Link	
Comments:	1591



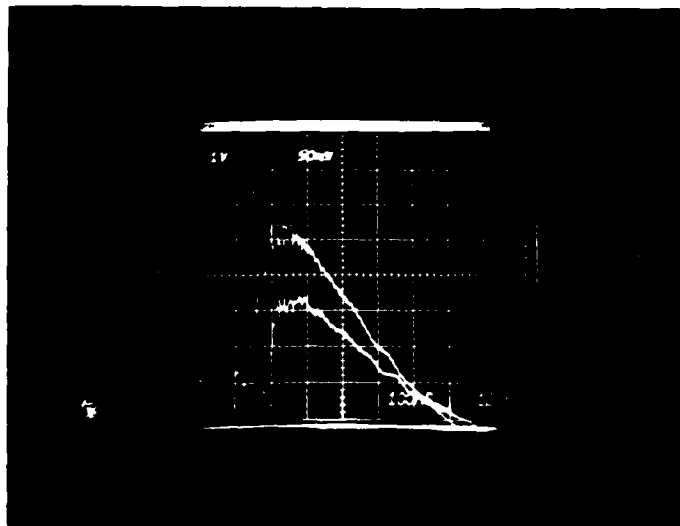
1591

DATA + S@ REF GND

? $\frac{1}{2}$

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	

Date 6-21-85
 Test Point 23-T25-R1-A
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 100 ns/div 1
 Vertical .05V (400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level
 Data Link
 Comments:



1572

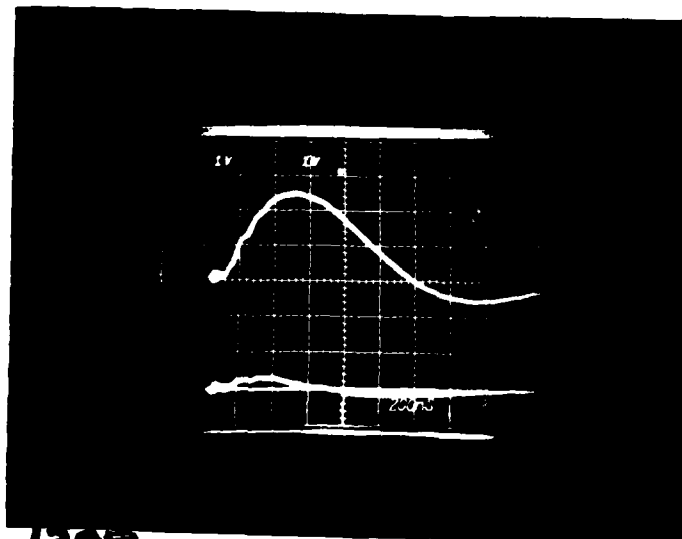
DATA+ SC REF GND

? 1/2

Date
 Test Point
 Amplification dB
 Attenuation dB
 Horizontal ns/div 1
 Vertical mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level
 Data Link
 Comments:

Date 6-17-85
 Test Point 25-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

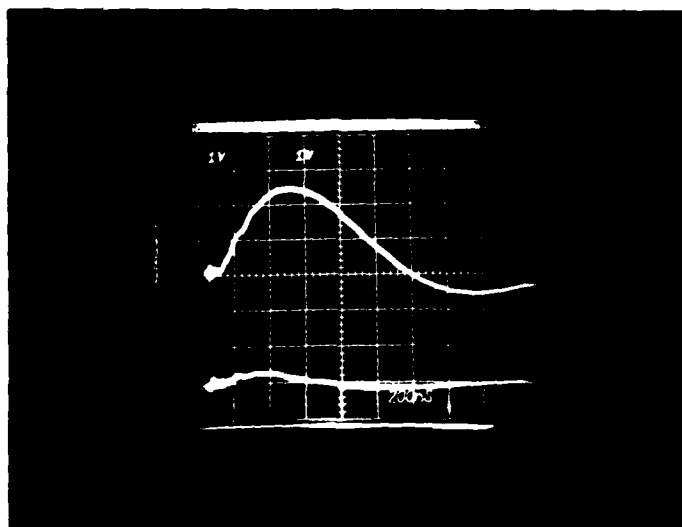
1387



1387

Date 6-17-85
 Test Point 25-T25-9/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

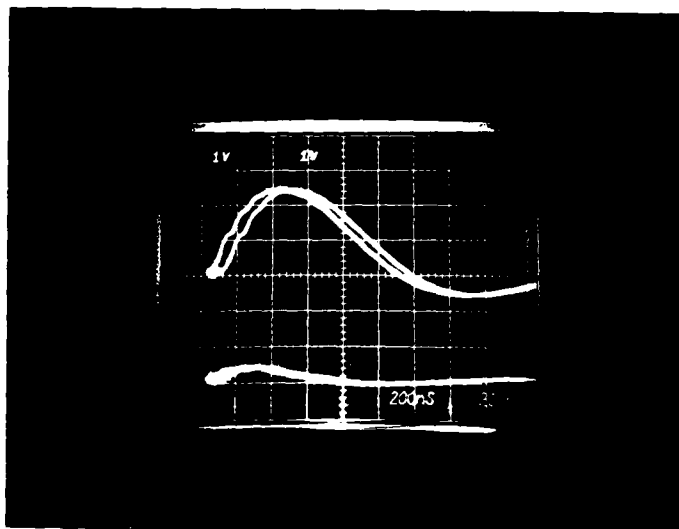
1388



1388

Date 6-17-85
 Test Point 26-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

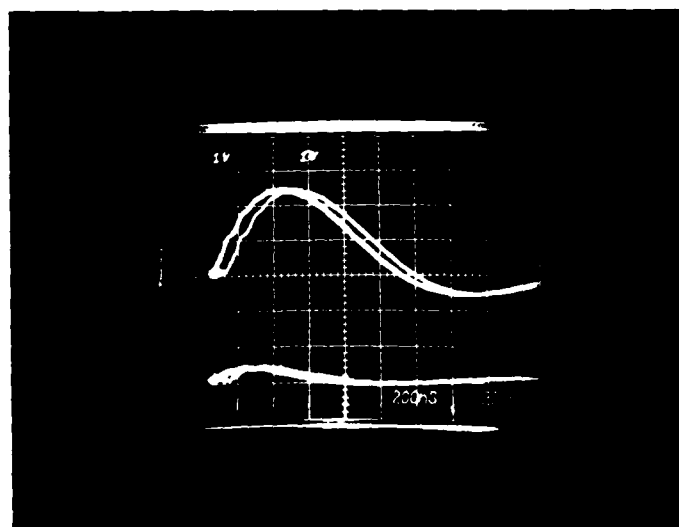
573



1378

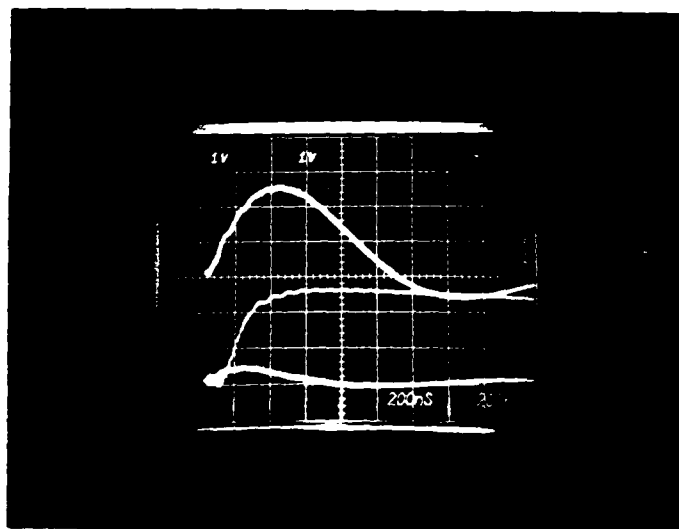
Date 6-17-85
 Test Point 26-T25-9/10-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

1-71

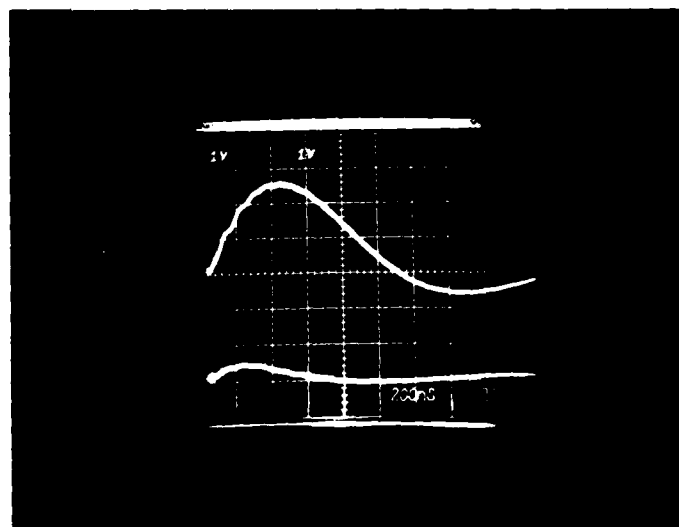


1379

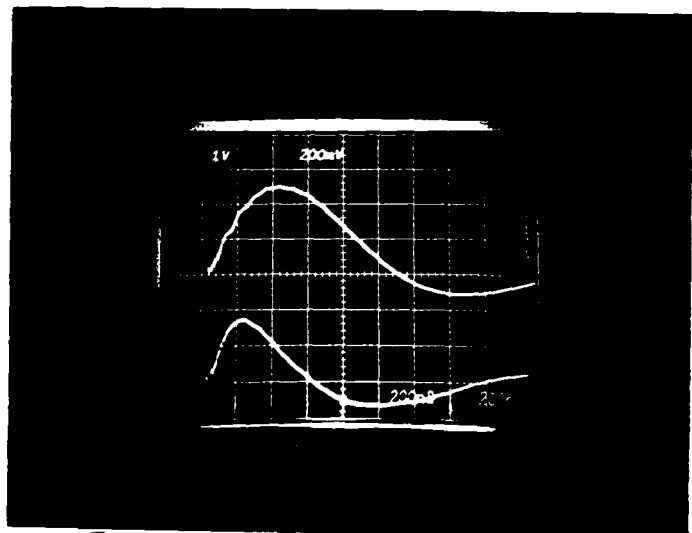
Date 6-17-85
 Test Point 26-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1330



Date 6-17-85
 Test Point 26-T25-9/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1361



Date	6-17-85
Test Point	26-725-11-B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	.2V (1600V) mV/div 2
Configuration	-20dB
Pulser Level	25000V
Data Link	
Comments:	1382



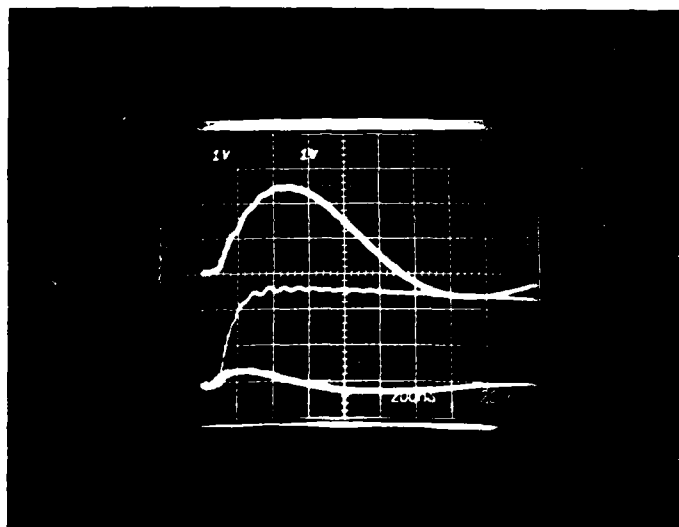
1382

VOLTAGE @ 12V (1600V) per div

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

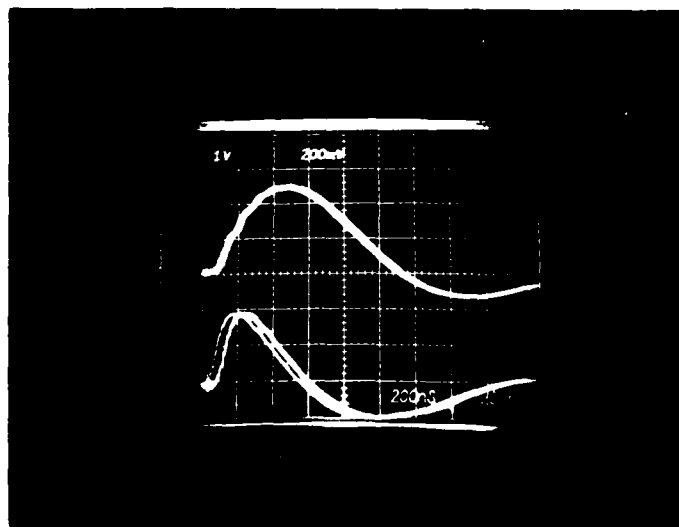
(REPEAT TEST)

Date 6-18-85
 Test Point 26-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1471

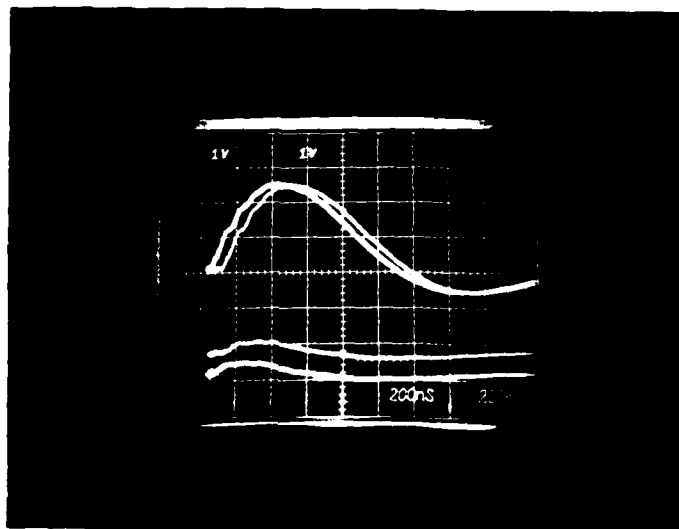
Date 6-18-85
 Test Point 26-T25-9/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1473

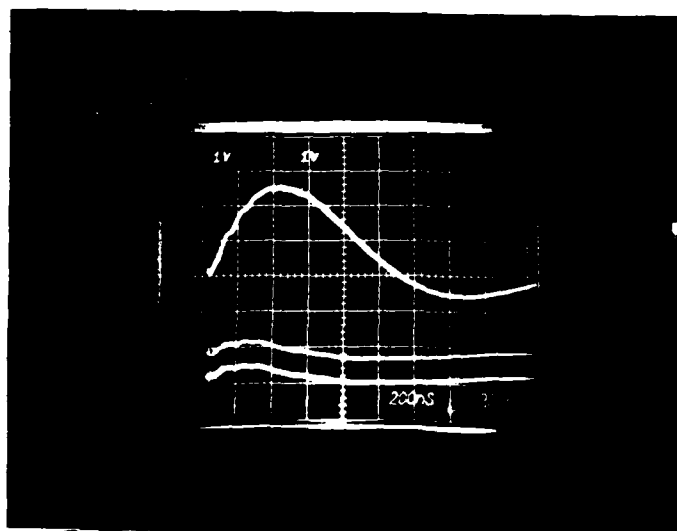
VERTICAL @ .2V (1600V)

Date 6-17-85
 Test Point 26-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1383



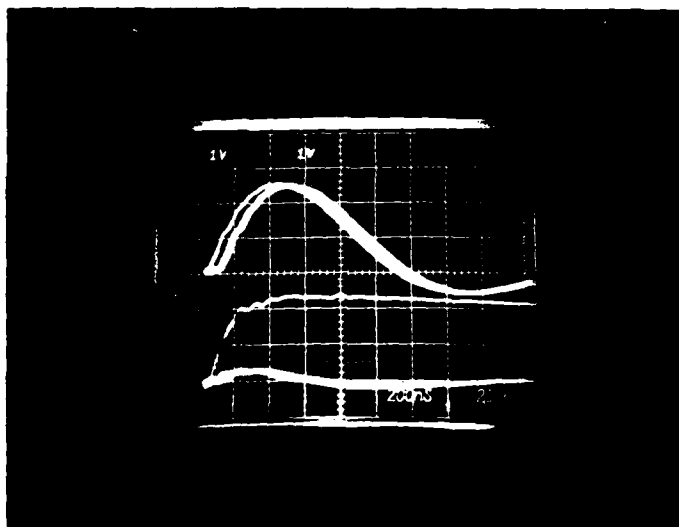
1383

Date 6-17-85
 Test Point 26-T25-9/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1384



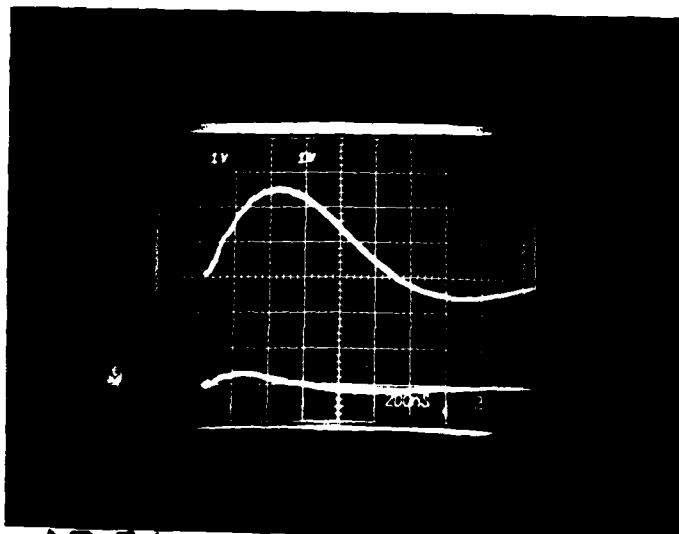
1384

Date 6-17-85
 Test Point 26-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1325



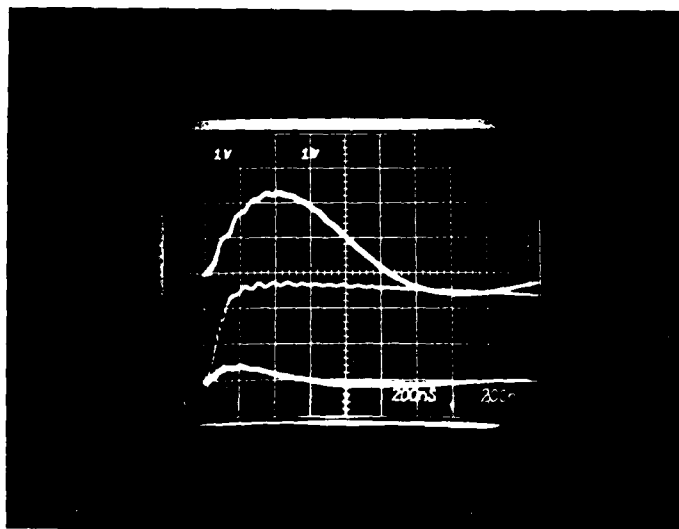
1385

Date 6-17-85
 Test Point 26-T25-9/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1326



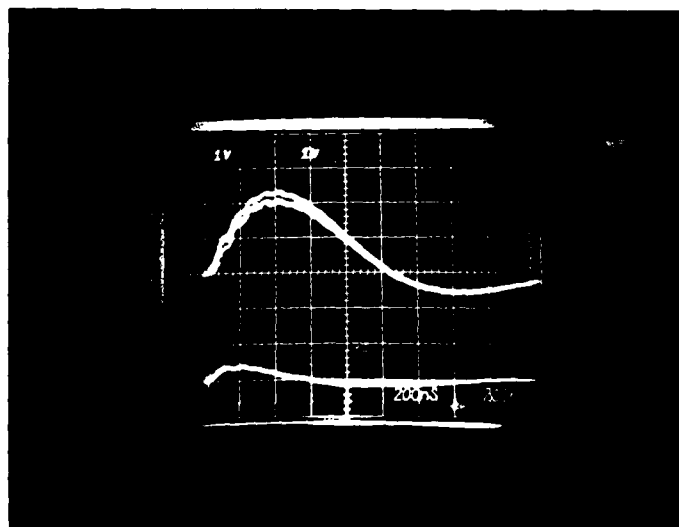
1386

Date 6-18-85
 Test Point 27-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



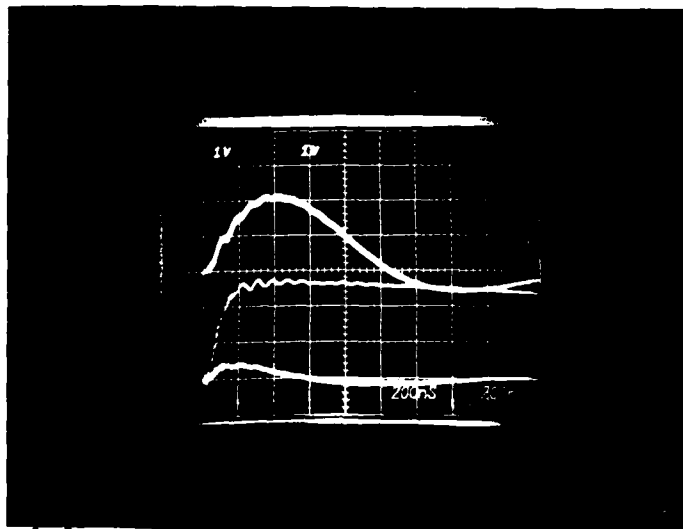
1408

Date 6-18-85
 Test Point 27-T25-1/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



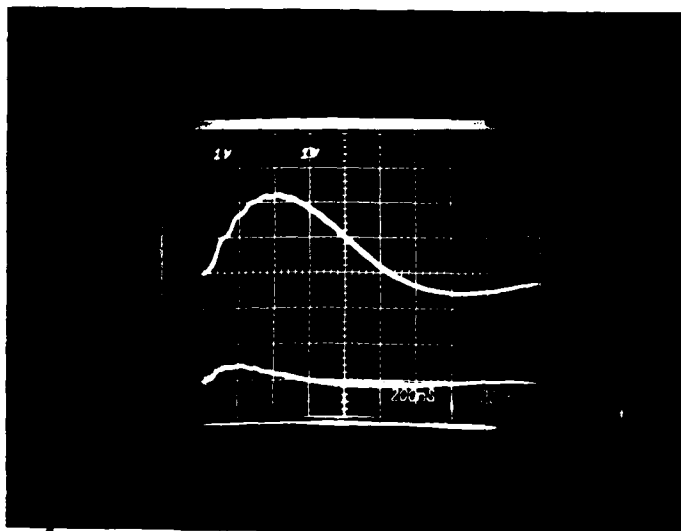
1409

Date 6-18-85
 Test Point 28-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



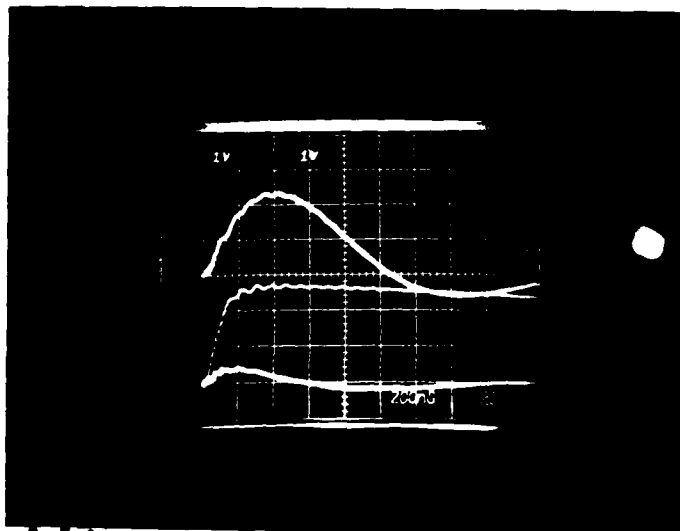
1410

Date 6-18-85
 Test Point 28-T25-910-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



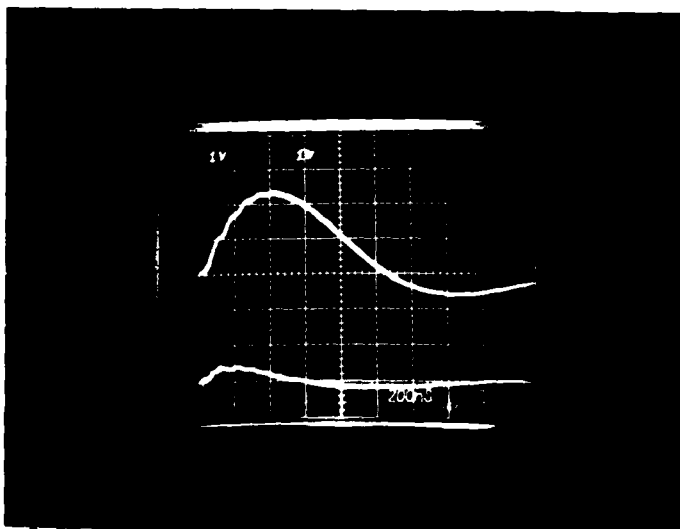
1411

Date 6-18-85
 Test Point 2K-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1412



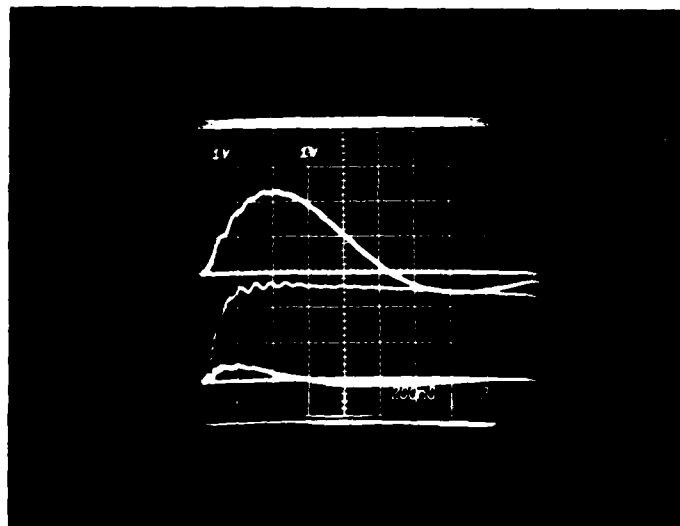
1412

Date 6-18-85
 Test Point 28-T25-9/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1413



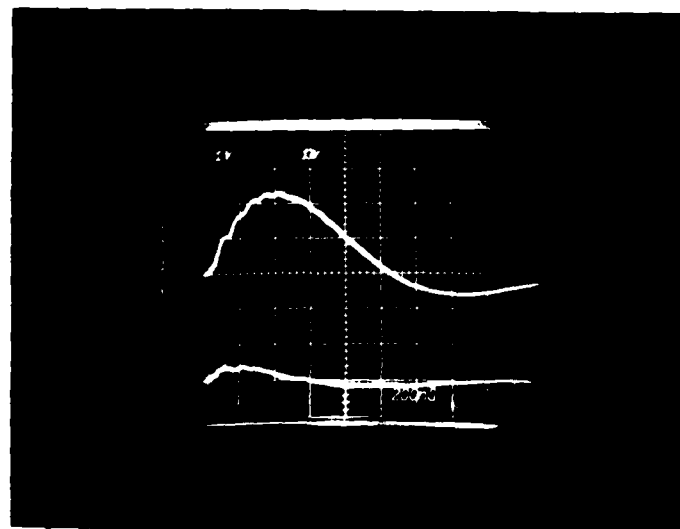
1413

Date 6-18-85
 Test Point 28-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1414

Date 6-18-85
 Test Point 28-T25-9/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



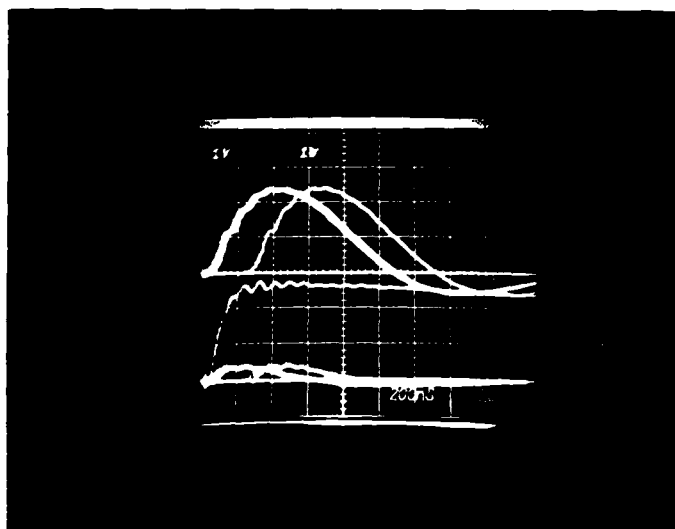
1415

Date 6-17-85
 Test Point 28-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) = /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) = /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

Comments:

1413

#12-17 pulses

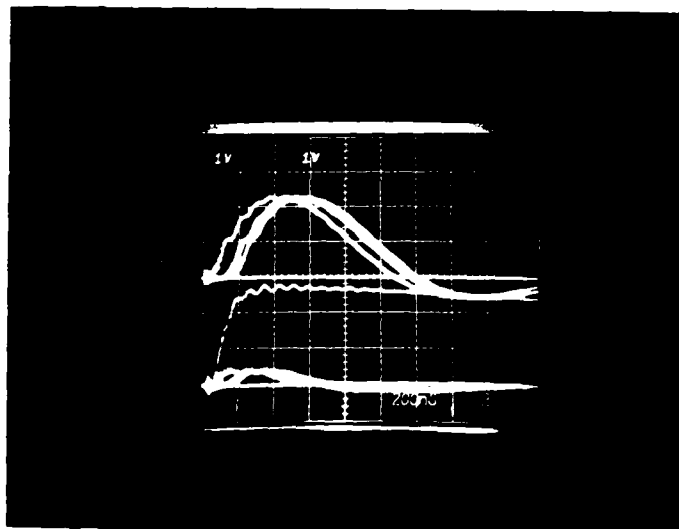


1418

Date 6-17-85
 Test Point 28-T25-9/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) = /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) = /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

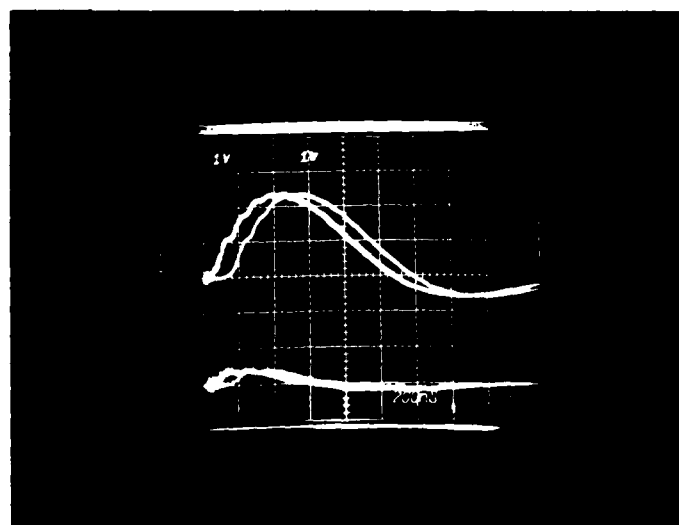
Comments:

Date 6-18-85
 Test Point 29-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1417



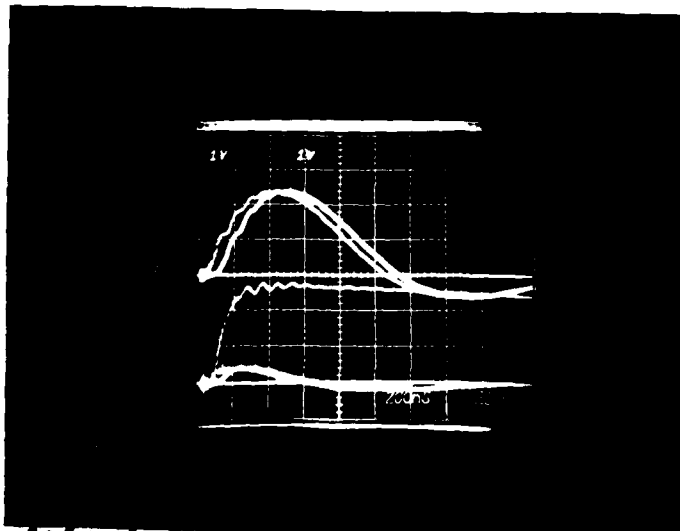
1419

Date 6-18-85
 Test Point 29-T25-910-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



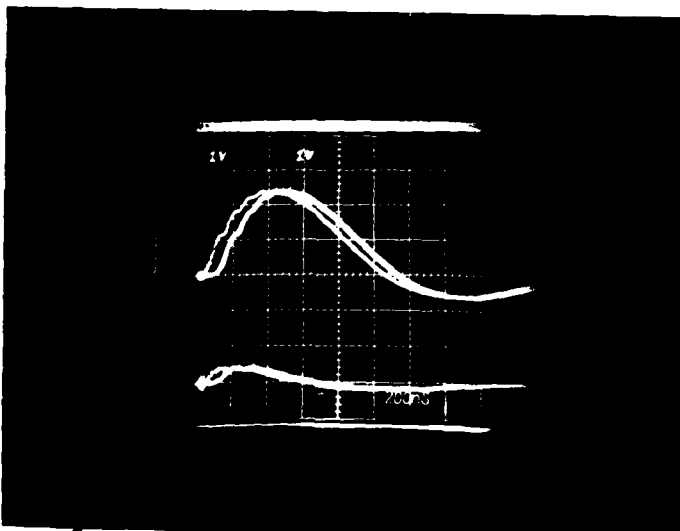
1420

Date 6-18-85
 Test Point 30-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 142'



1421

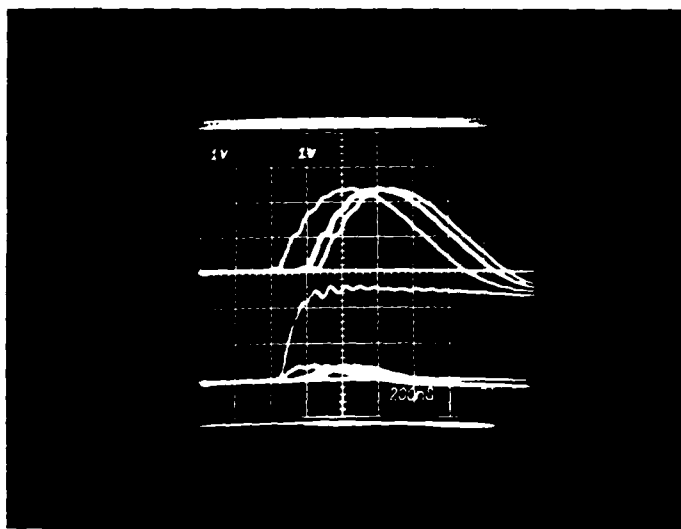
Date 6-18-85
 Test Point 30-T25-9/10-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1422



1422

Date	6-18-85
Test Point	30 - T25 - 1/5 - B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) μ /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) μ /div 2
Configuration	-20 dB
Pulser Level	25,000 V
Data Link	

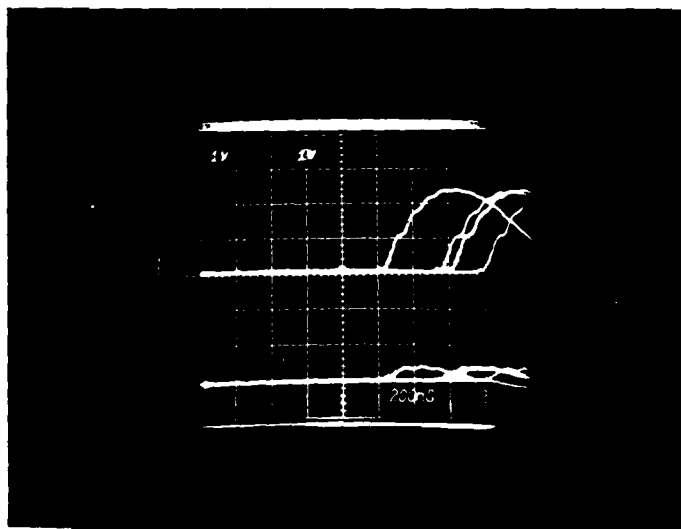
Comments:



1423

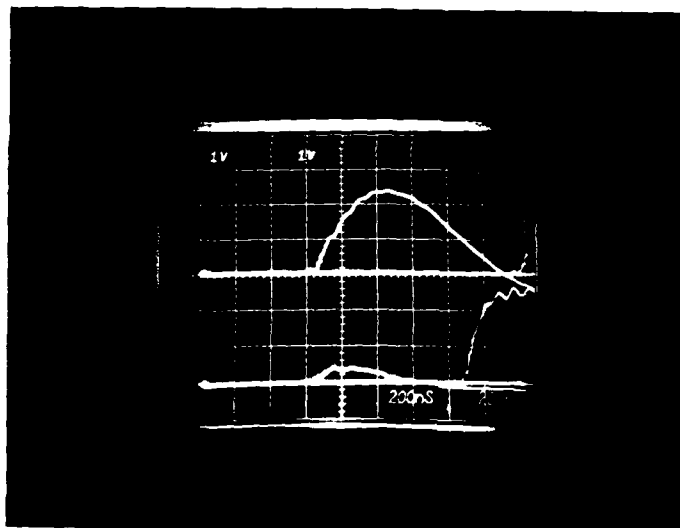
Date	6-18-85
Test Point	30 - T25 - 910 - B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) μ /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) μ /div 2
Configuration	-20 dB
Pulser Level	25,000 V
Data Link	

Comments:



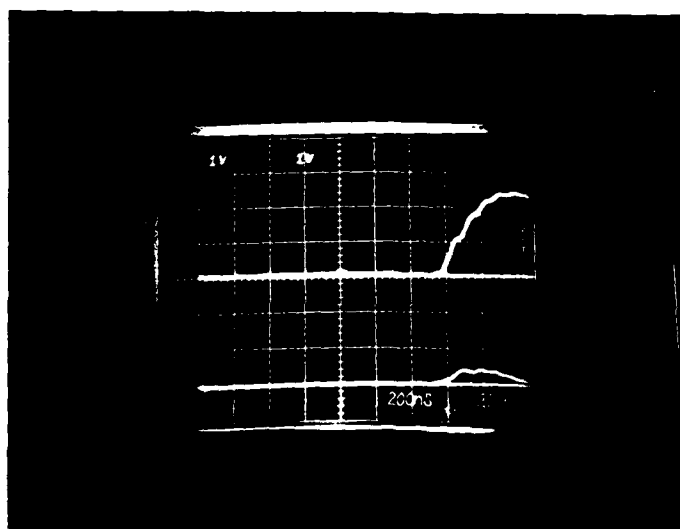
1424

Date 6-18-85
 Test Point 30-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~m~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~m~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



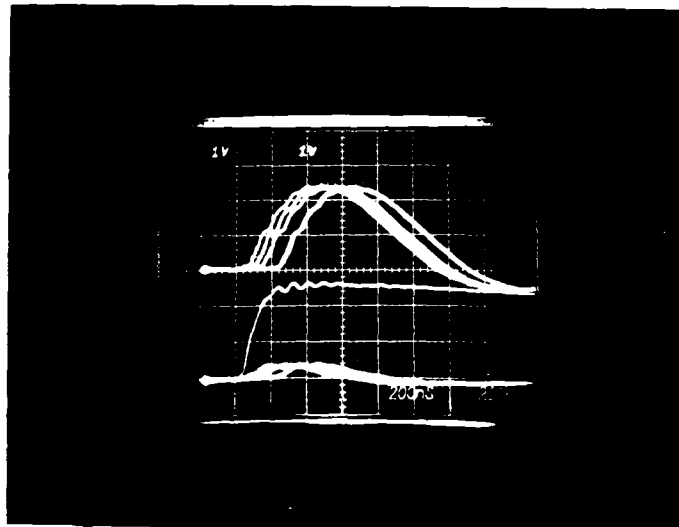
1425

Date 6-18-85
 Test Point 30-T25-9/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~m~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~m~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



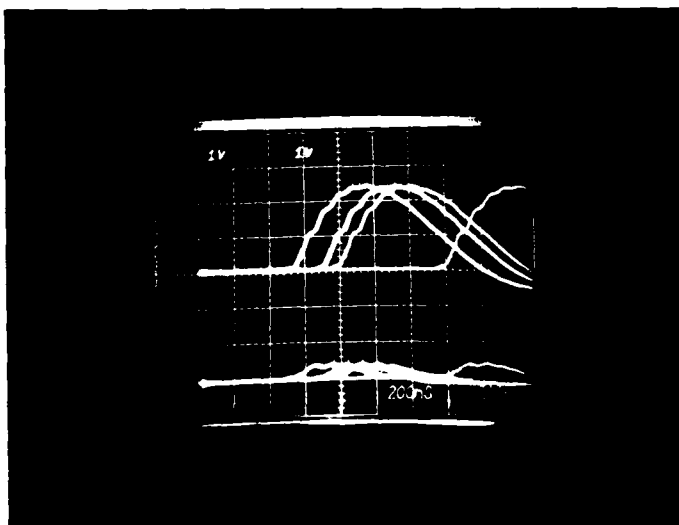
1426

Date 6-18-85
 Test Point 30-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



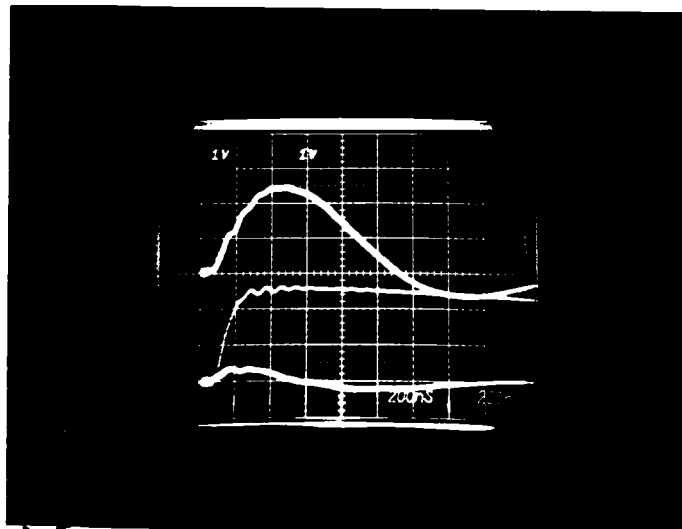
1427

Date 6-18-85
 Test Point 30-T25-9/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



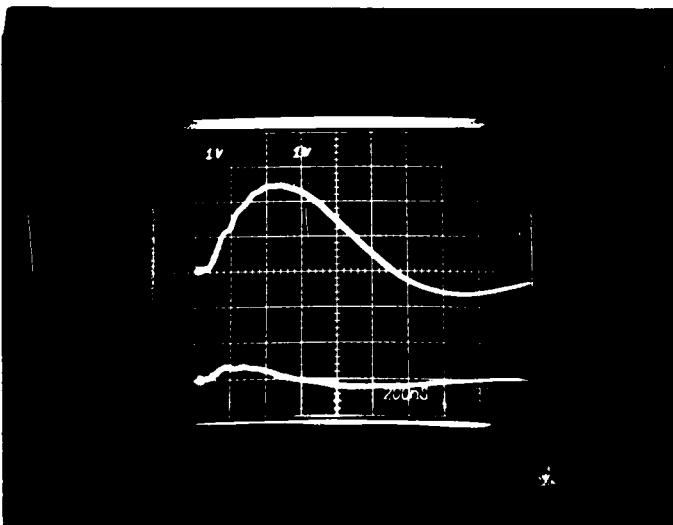
1428

Date 6-18-85
 Test Point 34-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1431

Date 6-18-85
 Test Point 34-T25-9/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



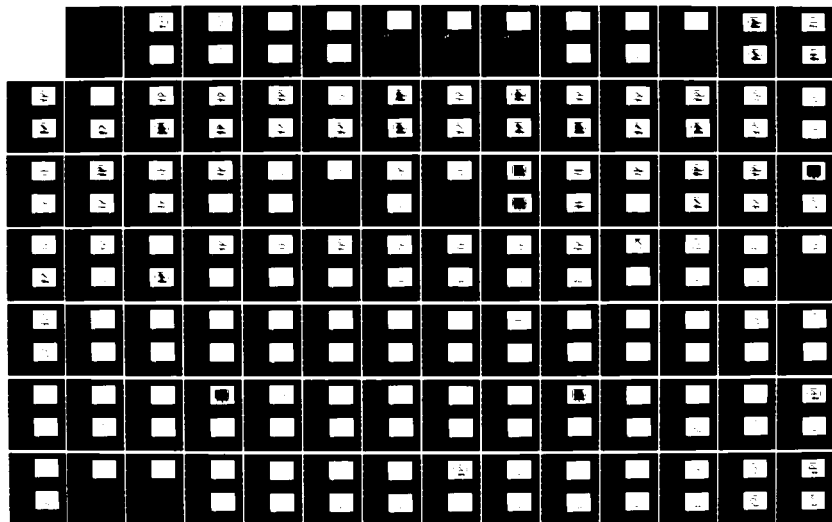
1432

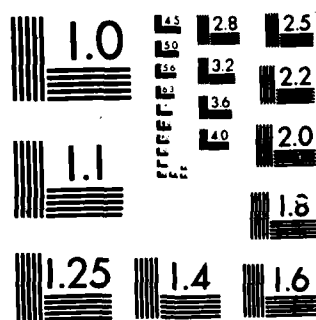
UNCLASSIFIED

NCS-TIB-85-10-VOL-3-SEC-2 DCA100-85-C-0010 F/G 20/14

2/3

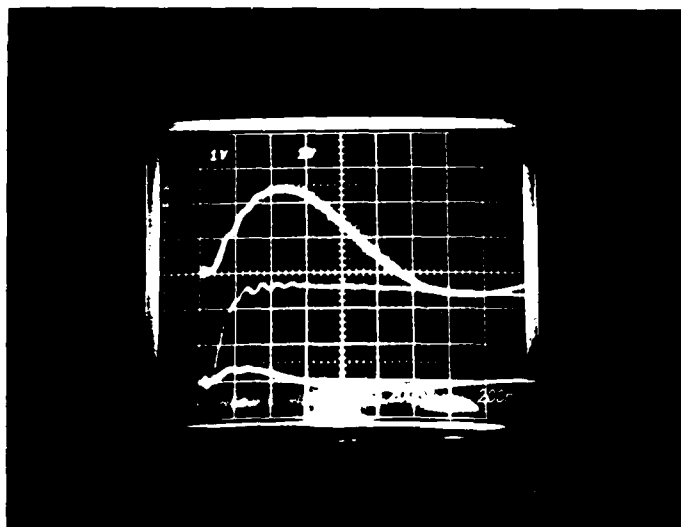
NL





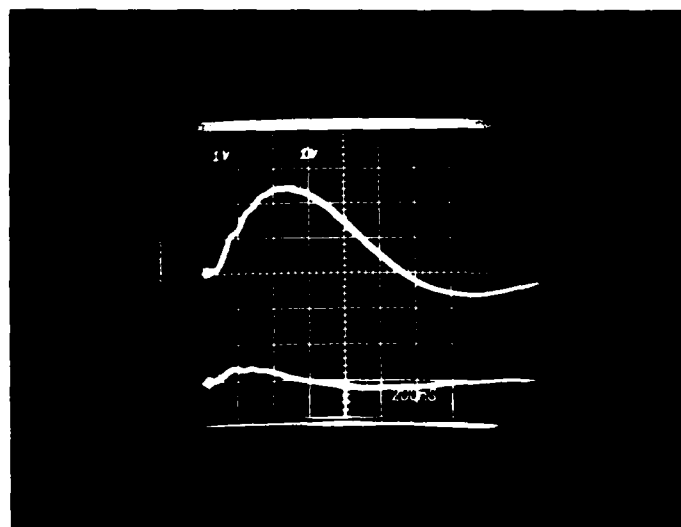
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Date 6-18-85
 Test Point 34 - T25 - 1/5 - C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1429



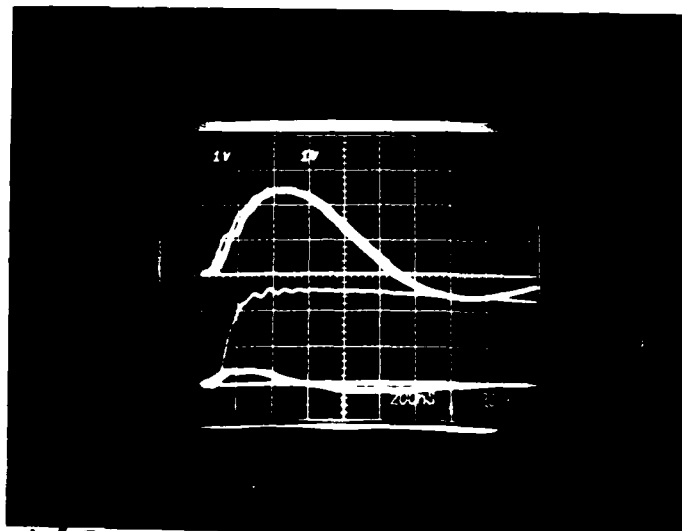
1429

Date 6-18-85
 Test Point 34 - T25 - 1/10 - C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1430



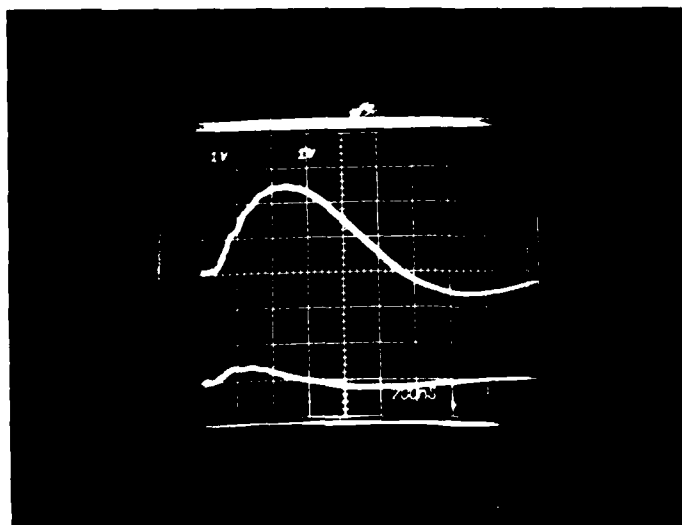
1430

Date 6-18-85
 Test Point 35-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



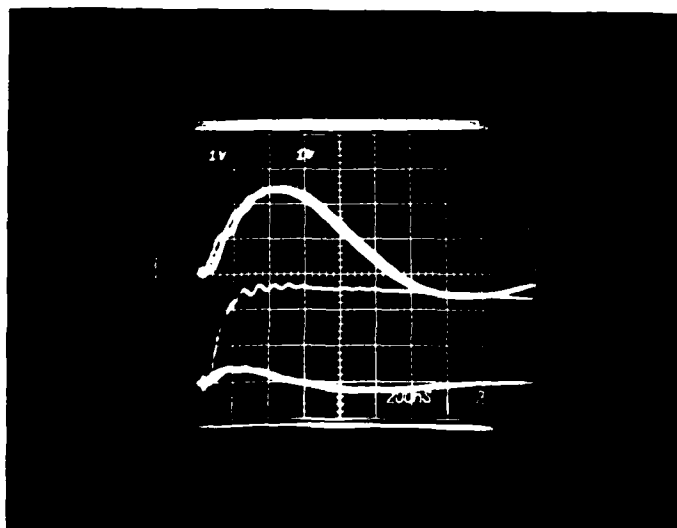
1433

Date 6-18-85
 Test Point 35-T25-9/10-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

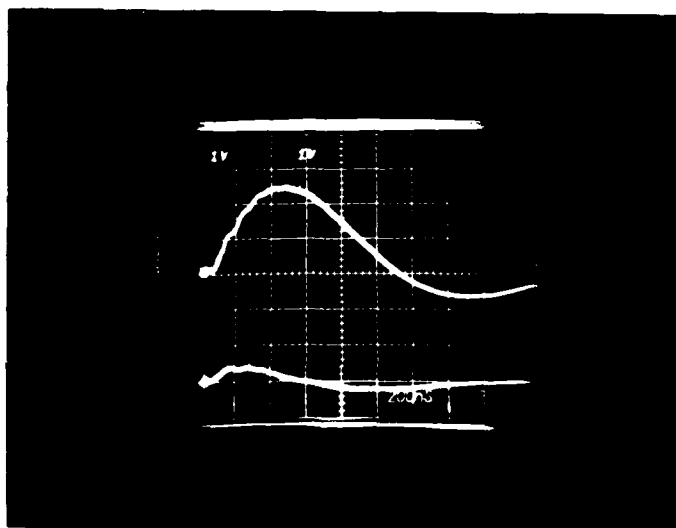


1434

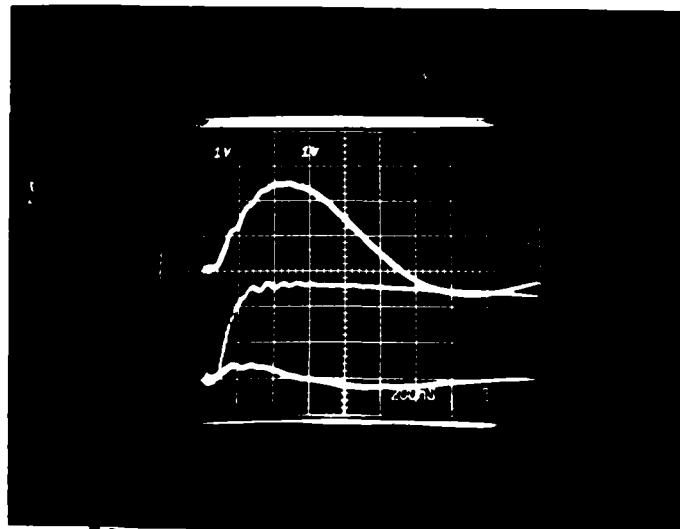
Date	6-18-85
Test Point	35-T25-1/5-B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) 1 /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) 1 /div 2
Configuration	-20 dB
Pulse Level	25,000 V
Data Link	
Comments:	14-55



Date	6-18-85
Test Point	35-T25-9/10-B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) 1 /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) 1 /div 2
Configuration	-20 dB
Pulse Level	25,000 V
Data Link	
Comments:	14-55

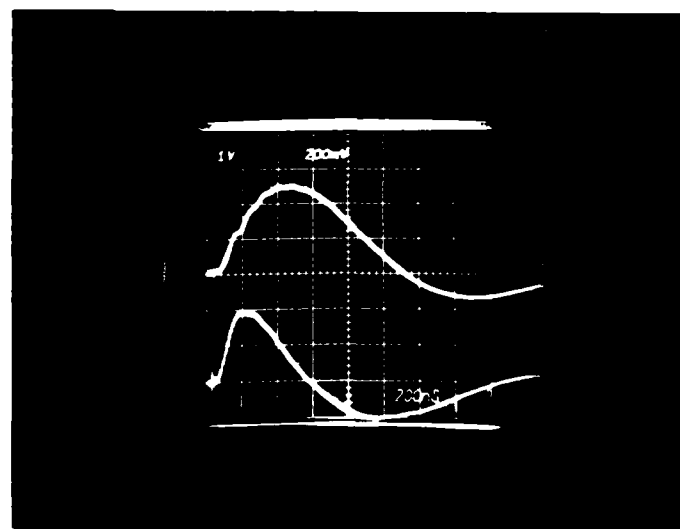


Date 6-18-85
 Test Point 35-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1437

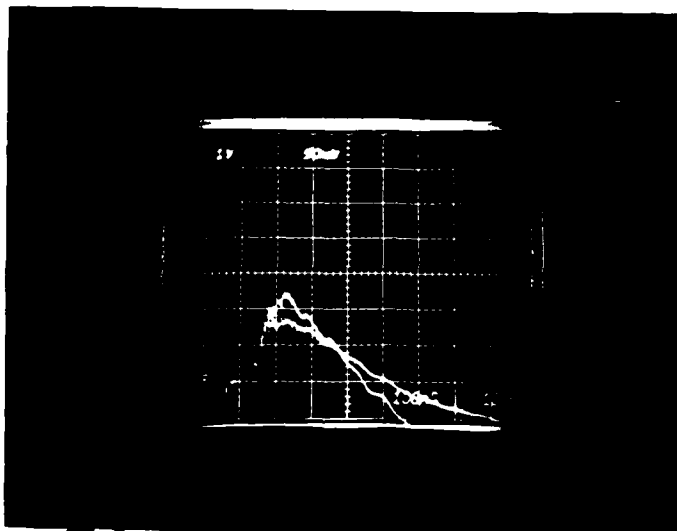
Date 6-18-85
 Test Point 35-T25-9/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (8000V)~~ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1438

VERTICAL @ 1.2V (1600V) per. div.

Date 6-21-85
 Test Point 36-T25-41-0
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 100 ns/div 1
 Vertical .05 (400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level 25000V
 Data Link
 Comments:



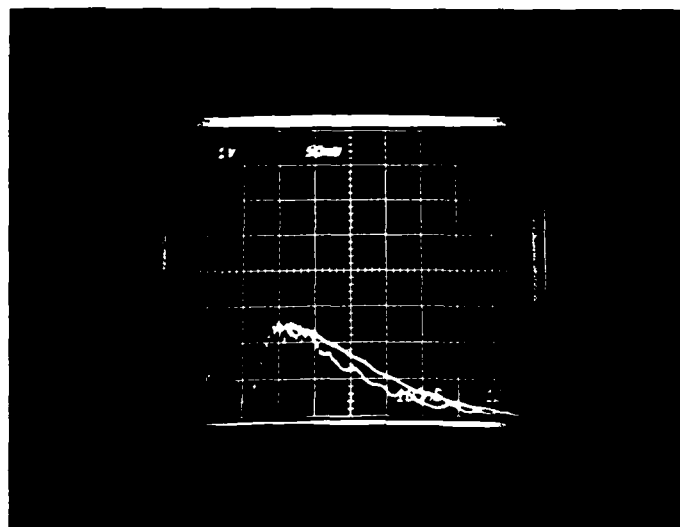
1588

DATA + SC GROUND REF

~~DATA~~ ~~SC~~

Date
 Test Point
 Amplification dB
 Attenuation dB
 Horizontal ns/div 1
 Vertical mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level
 Data Link
 Comments:

Date 6-21-85
 Test Point 37-T25-2/1-φ
 Amplification 0 dB
 Attenuation -20 dB
 Horizontal 100 ns/div 1
 Vertical .05V(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level 25000V
 Data Link
 Comments:

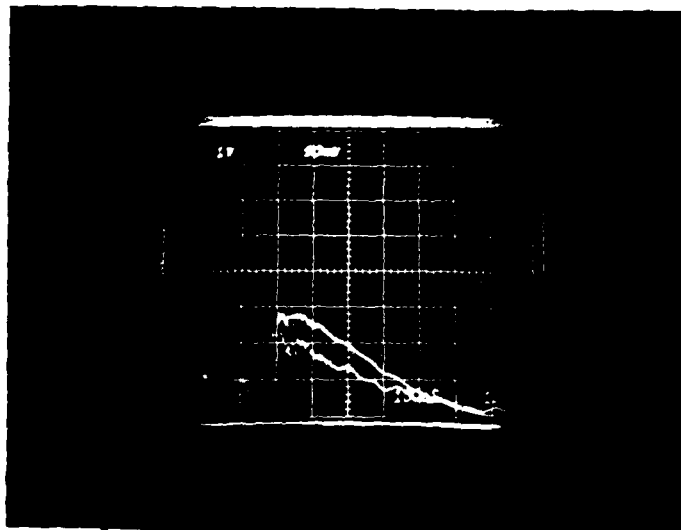


DATA + SC GROUND REF

~~XXXXXXXXXX~~

Date
 Test Point
 Amplification dB
 Attenuation dB
 Horizontal ns/div 1
 Vertical mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level
 Data Link
 Comments:

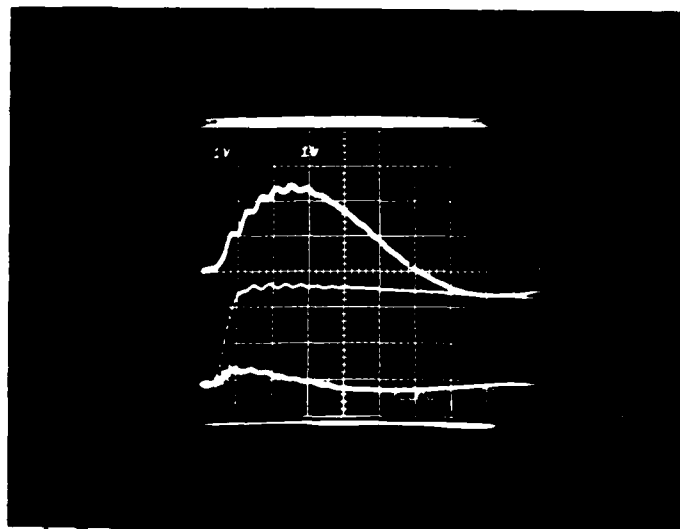
Date	6-21-85
Test Point	38-T25-R1-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	100 ns/div 1
Vertical	105V (400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	25000V
Data Link	
Comments:	



DATA + SC GND REF

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

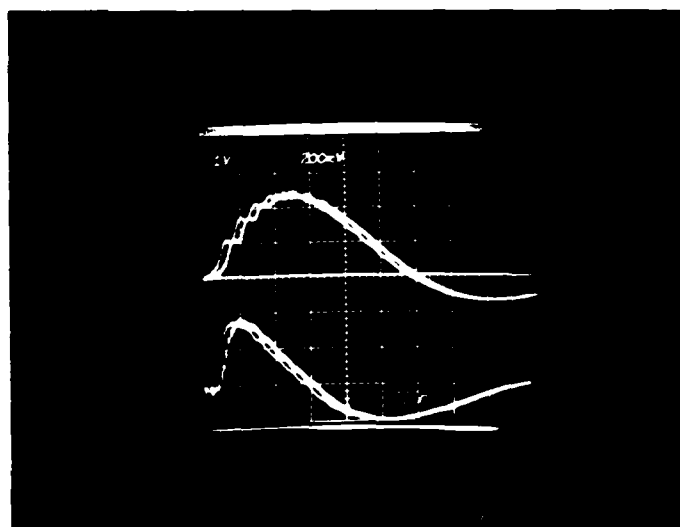
Date 6-19-85
 Test Point 39-T25-15- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000 μ V) μ V/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) V/div 2
 Configuration -20dB
 Pulsar Level 25,000V
 Data Link
 Comments:



1482

"COMMON" LEAD

Date 6-19-85
 Test Point 39-T25-410- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000 μ V) μ V/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) V/div 2
 Configuration -20dB
 Pulsar Level 25,000V
 Data Link
 Comments:



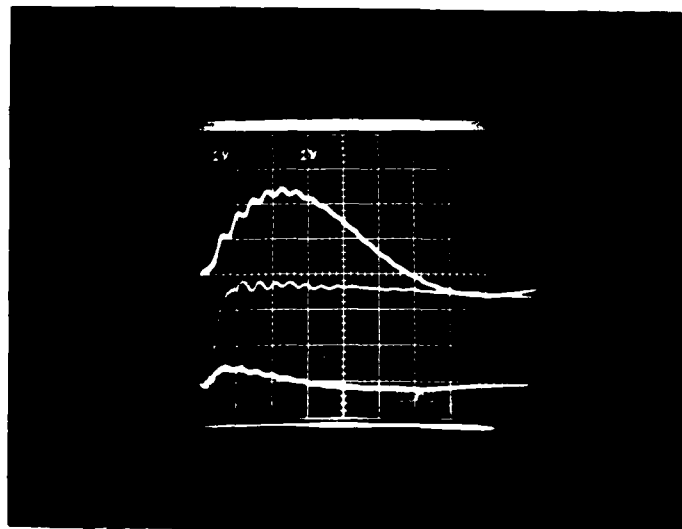
1483

"COMMON" LEADS

Date 6-19-85
 Test Point 39-T25- 1/5-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (2000V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25,000V
 Data Link

Comments:

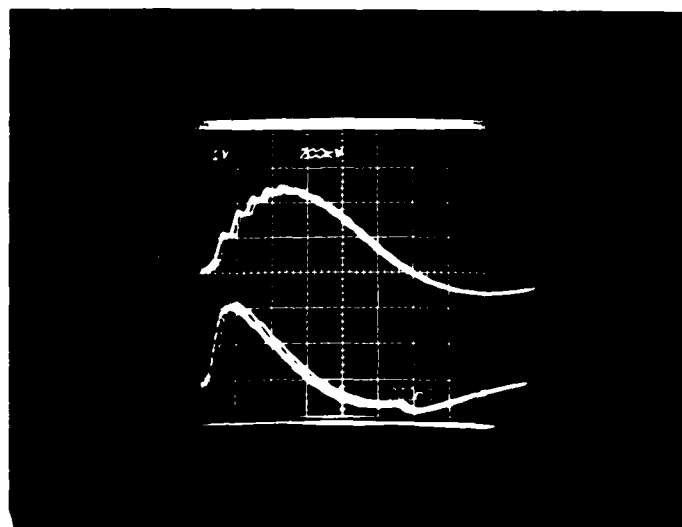
"HOT" LEAD



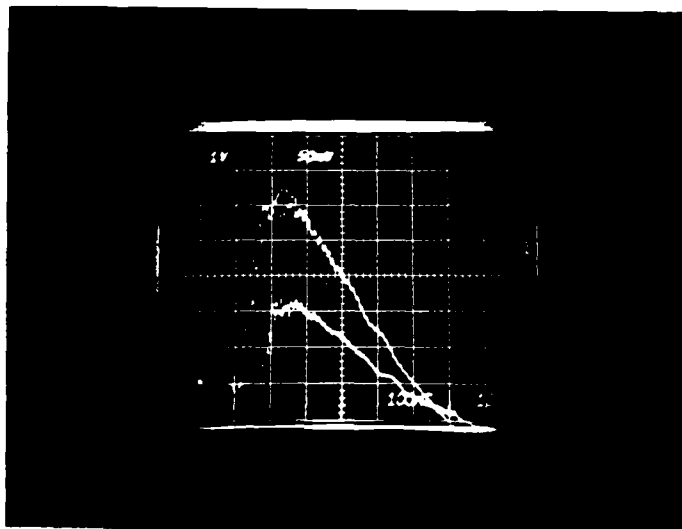
Date 6-19-85
 Test Point 39-T25- 6/10-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V (1600V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25,000V
 Data Link

Comments:

"HOT" LEAD



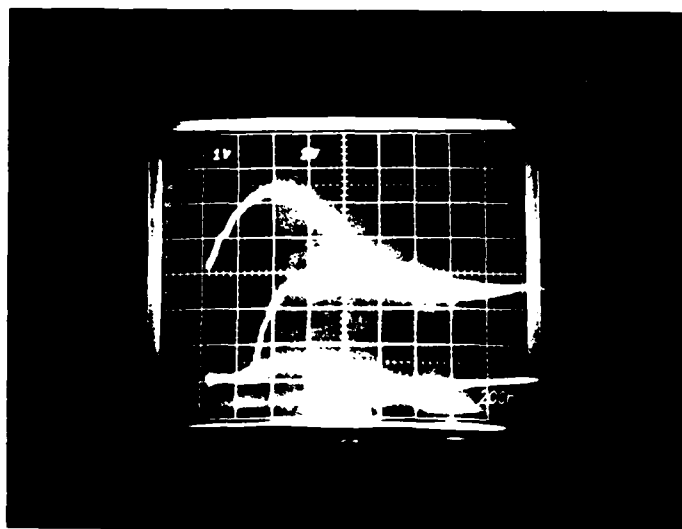
Date	6-21-85
Test Point	41-T25-B1-A
Amplification	0 dB
Attenuation	20 dB
Horizontal	100 ns/div 1
Vertical	0.05V (400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	25000V
Data Link	
Comments:	



? $\frac{1}{2}$

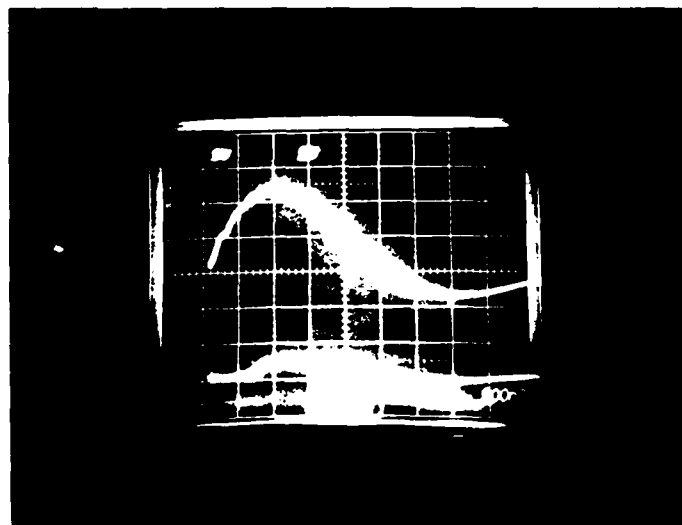
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	

Date	6-14-85
Test Point	42-T25-1/5-A
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2kV) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8kV) mV/div 2
Configuration	-20 dB
Pulse Level	25KV
Date Link	
Comments:	1262



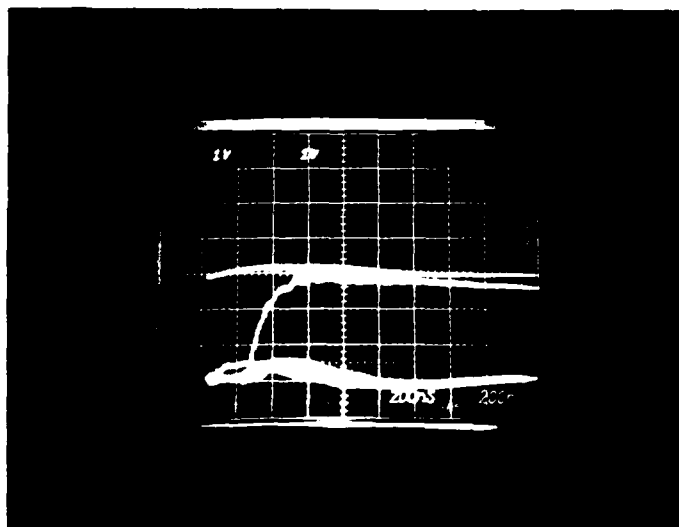
1262

Date	6-14-85
Test Point	42-T25-6/10-A
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2kV) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8kV) mV/div 2
Configuration	-20 dB
Pulse Level	25KV
Date Link	
Comments:	1263

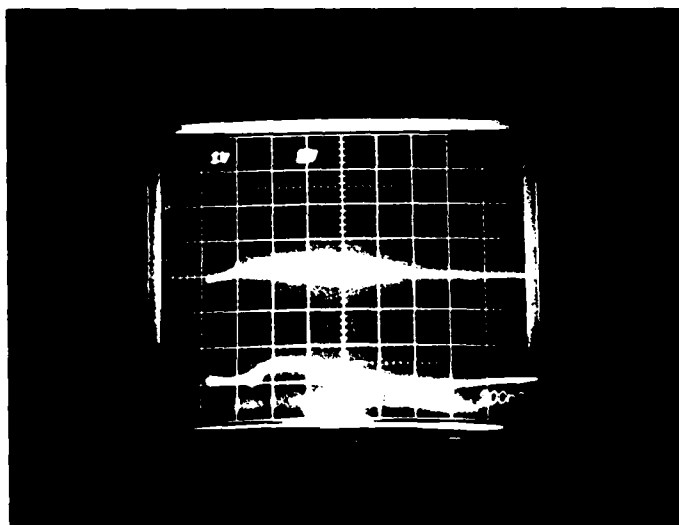


1263

Date	6-14-85
Test Point	42-T25-1/5-B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8KV) ns/div 2
Configuration	-20 dB
Pulse Level	25KV
Date Link	
Comments:	

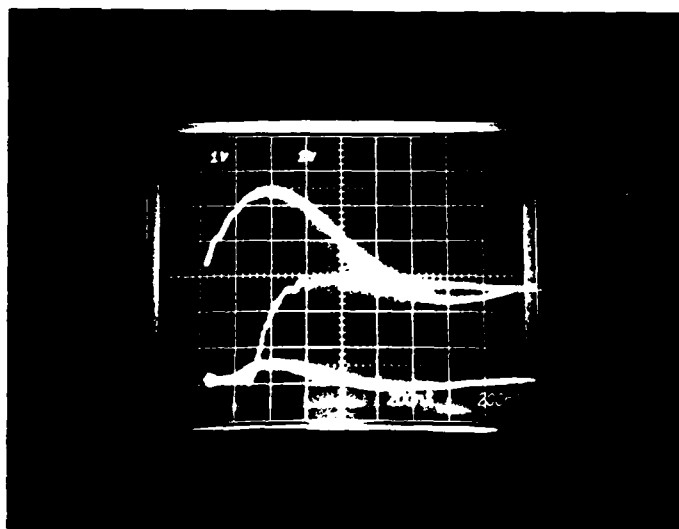


Date	6-14-85
Test Point	42-T25-9/10-B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8KV) ns/div 2
Configuration	
Pulse Level	25KV
Date Link	
Comments:	



Date	6-14-85		
Test Point	42-T25-1/5-C		
Amplification	0	dB	
Attenuation	40	dB	
Horizontal	200	ns/div	1
Vertical	1V(2000A/V)	mV/div	1
Horizontal	200	ns/div	2
Vertical	1V(8kV)	ns/div	2
Configuration	-20dB		
Pulser Level	25KV		
Data Link			

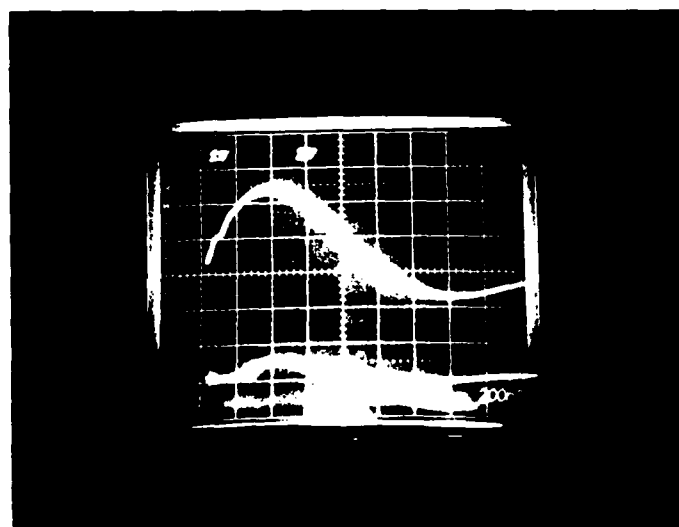
Comments: 1266



1266

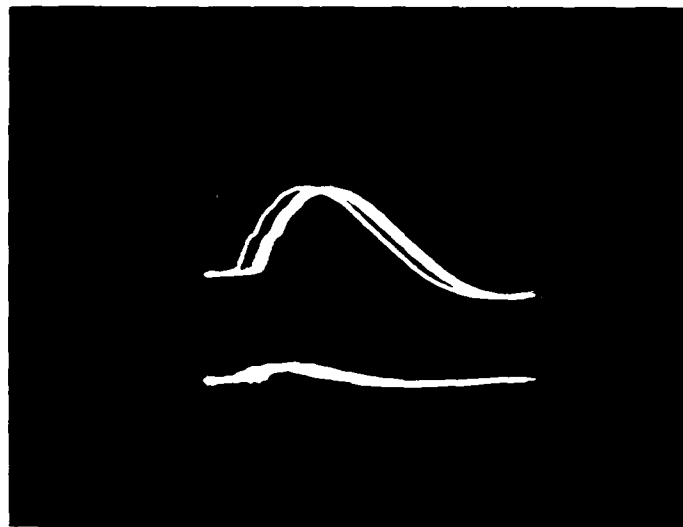
Date	6-14-85		
Test Point	42-T25-4/10-C		
Amplification	0	dB	
Attenuation	40	dB	
Horizontal	200	ns/div	1
Vertical	1V(2000A/V)	mV/div	1
Horizontal	200	ns/div	2
Vertical	1V(8000V)	ns/div	2
Configuration	-20dB		
Pulser Level	25KV		
Data Link			

Comments: 1267



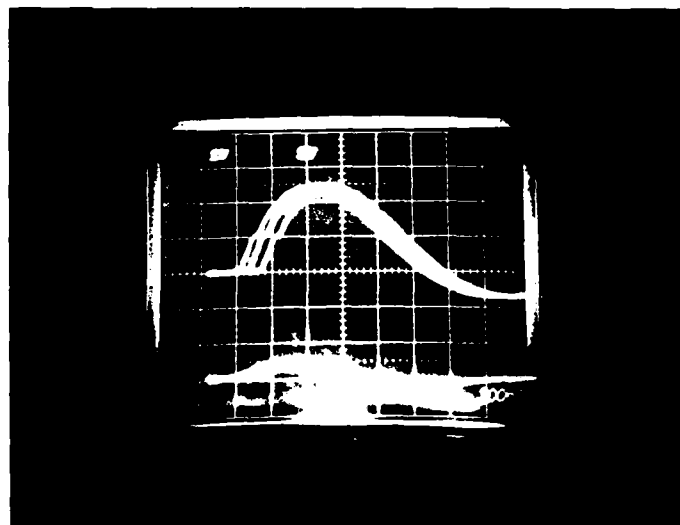
1267

Date 6-14-85
 Test Point 42-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20 dB
 Pulsar Level 25 KV
 Data Link
 Comments: 1268

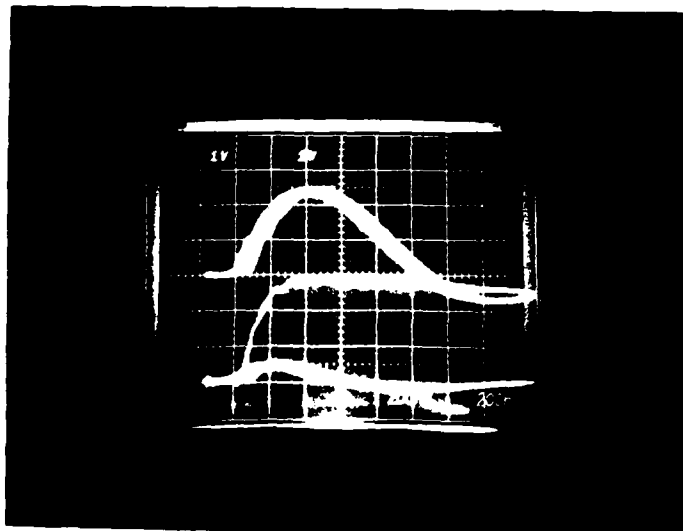


1268

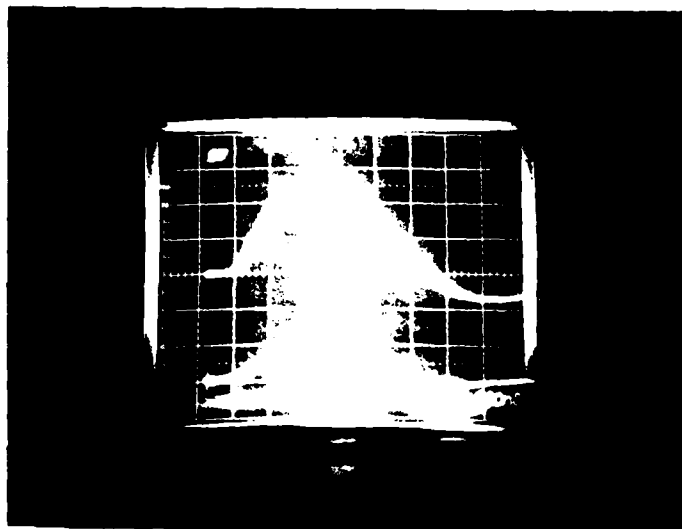
Date 6-14-85
 Test Point 42-T25-6/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20 dB
 Pulsar Level 25 KV
 Data Link
 Comments:



Date 6-14-85
 Test Point 42-T25-1/5-E
 Amplification 0 dB
 Attenuation 240 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments:

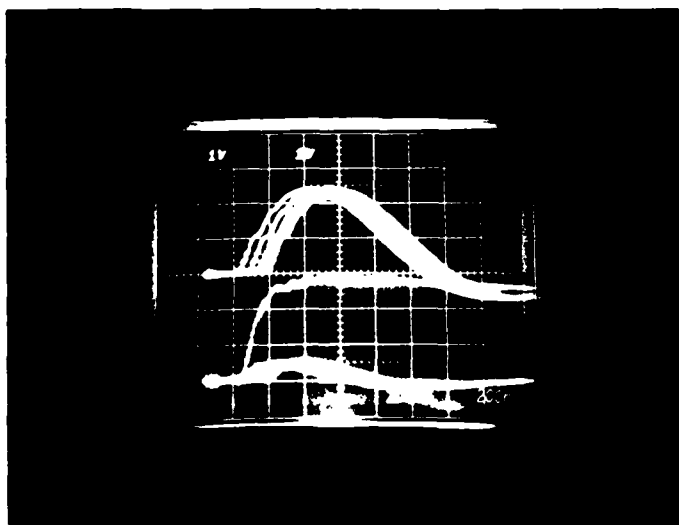


Date 6-14-85
 Test Point 42-T25-6/10-E
 Amplification 2 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments:



Date	6-14-85
Test Point	45-T25-1/5-A
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V(2000A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V(8000V) mV/div 2
Configuration	-20 dB
Pulser Level	25 KV
Data Link	
Comments:	

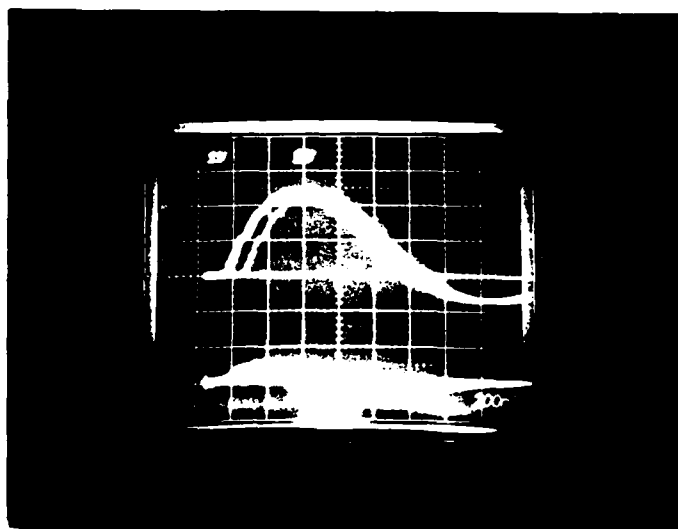
272



1272

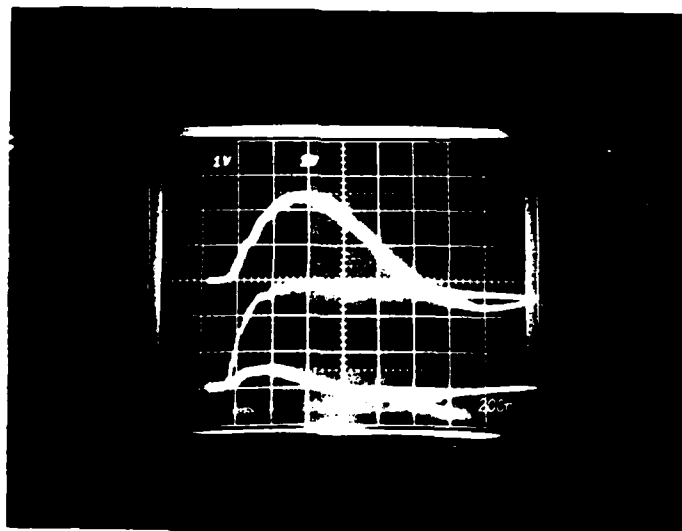
Date	6-14-85
Test Point	45-T25-1/10-A
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V(2000A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V(8000V) mV/div 2
Configuration	-20 dB
Pulser Level	25 KV
Data Link	
Comments:	

1273

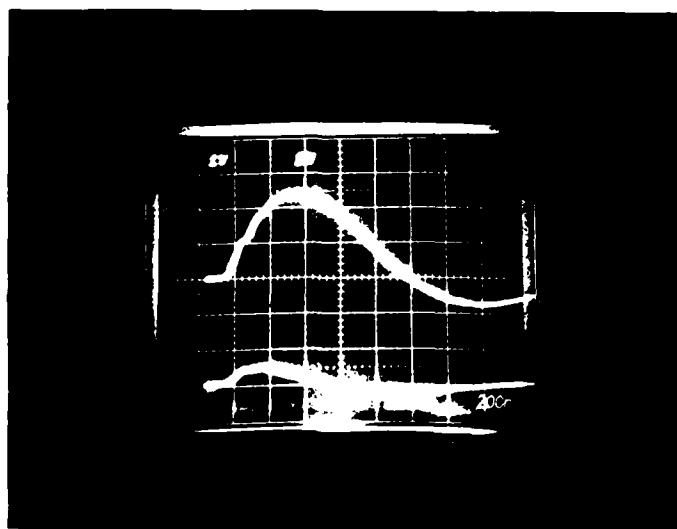


1273

Date	6-14-85
Test Point	45-T25-1/5-B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) ns/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) ns/div 2
Configuration	-20 dB
Pulser Level	25KV
Data Link	
Comments:	1274

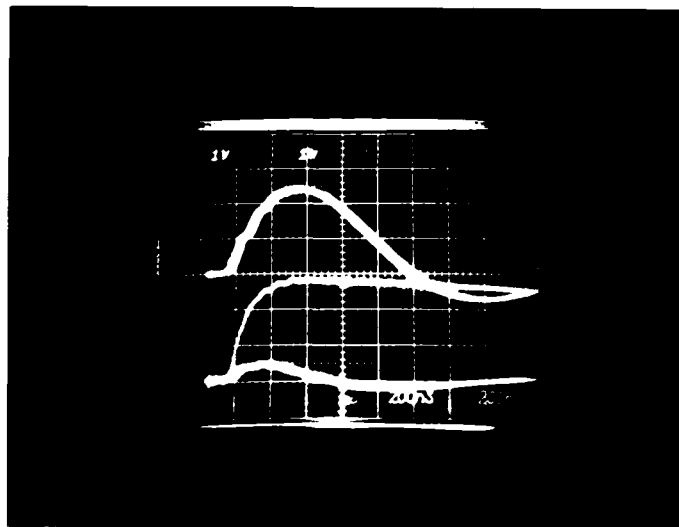


Date	6-14-85
Test Point	45-T25-1/5-B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) ns/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) ns/div 2
Configuration	-20 dB
Pulser Level	25KV
Data Link	
Comments:	1275



Date 6-14-85
 Test Point 45-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments:

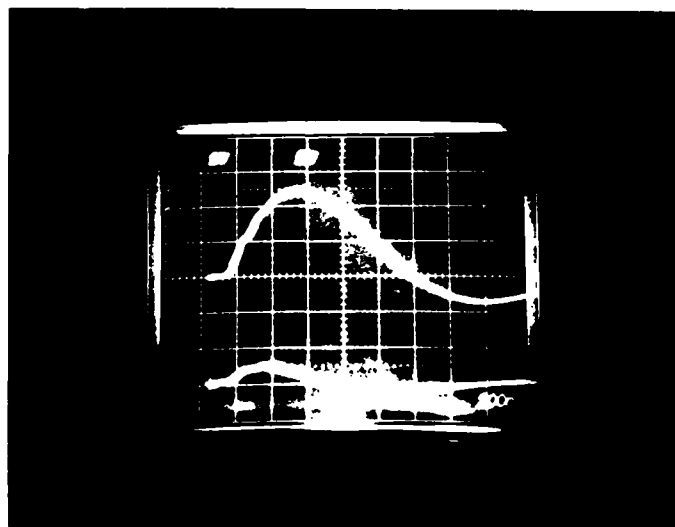
1276



1276

Date 6-14-85
 Test Point 45-T25-9/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments:

1277

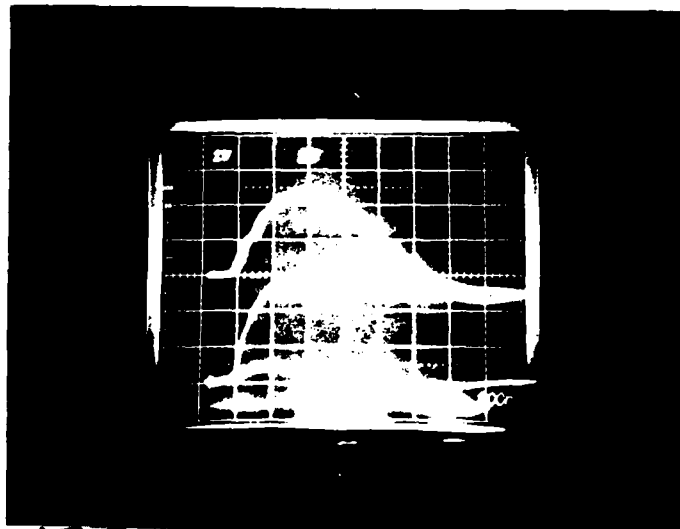


1277

Date	6-14-85		
Test Point	45-T25-15-D		
Amplification	0	dB	
Attenuation	40	dB	
Horizontal	200	ns/div	1
Vertical	1V (2000A/V)	mV/div	1
Horizontal	200	ns/div	2
Vertical	1V (8000V)	ns/div	2
Configuration	-20 dB		
Pulser Level	25 KV		
Data Link			

Comments:

1278

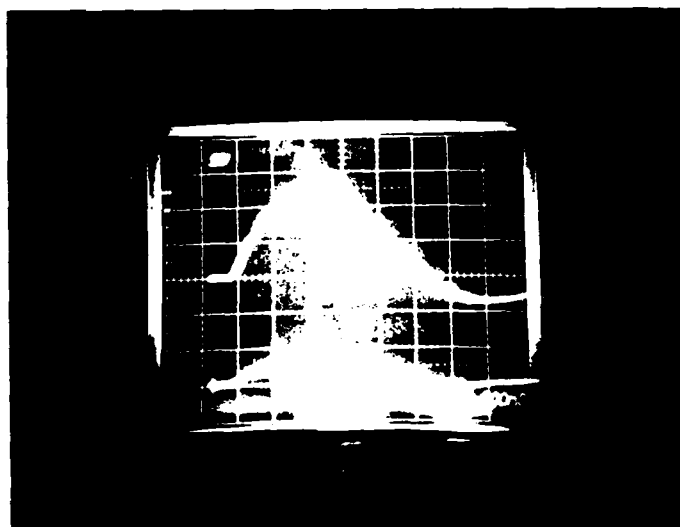


1278

Date	6-14-85		
Test Point	45-T25-6/10-D		
Amplification	0	dB	
Attenuation	40	dB	
Horizontal	200	ns/div	1
Vertical	1V (2000A/V)	mV/div	1
Horizontal	200	ns/div	2
Vertical	1V (8000V)	ns/div	2
Configuration	-20 dB		
Pulser Level	25 KV		
Data Link			

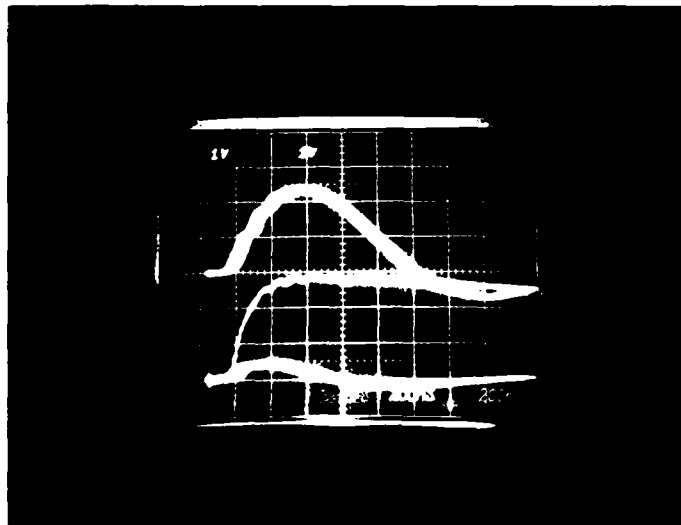
Comments:

1279



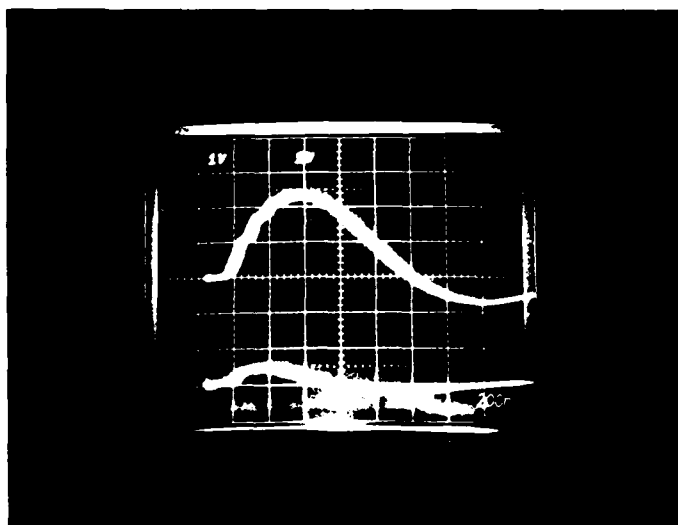
1279

Date 6-14-85
 Test Point 45-T25-1/2-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) /div 2
 Configuration -20dB
 Pulsar Level 25 kV
 Data Link
 Comments:



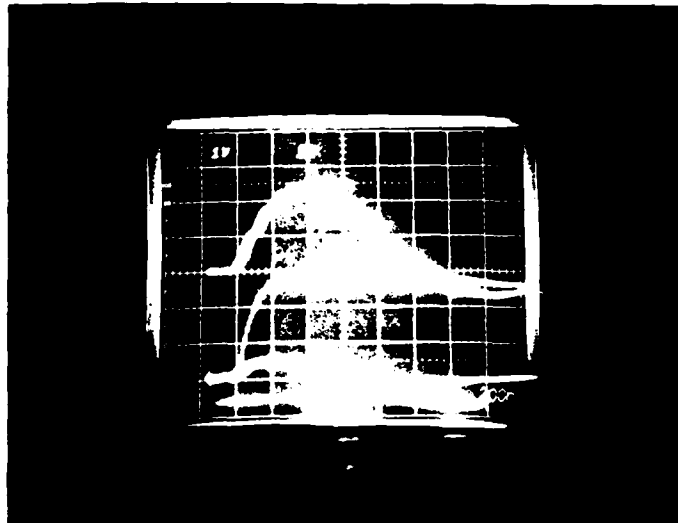
1280

Date 6-14-85
 Test Point 45-T25-9/10-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25 kV
 Data Link
 Comments:



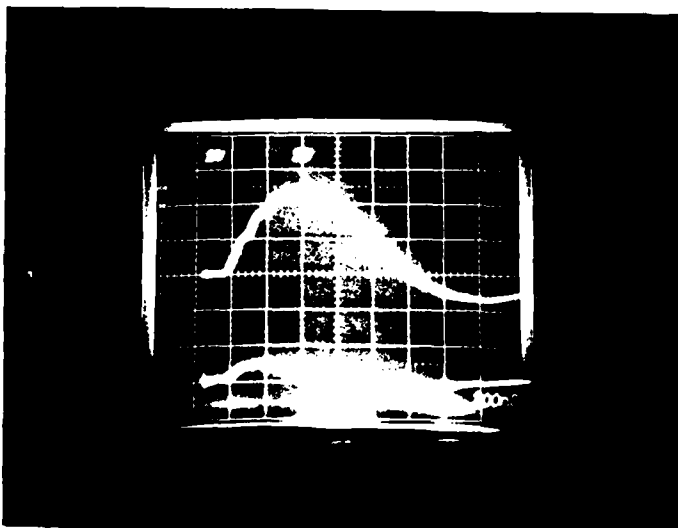
1281

Date 6-14-85
 Test Point 48-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000 A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) /div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments: 232



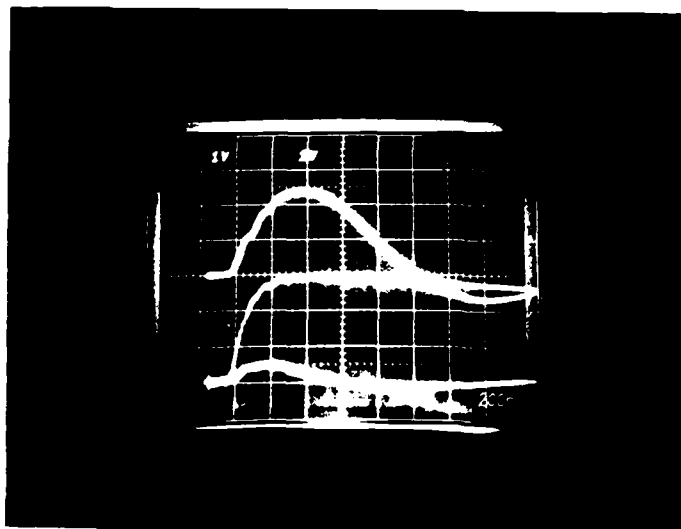
1282

Date 6-14-85
 Test Point 48-T25-6/10-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000 A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) /div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments: 233



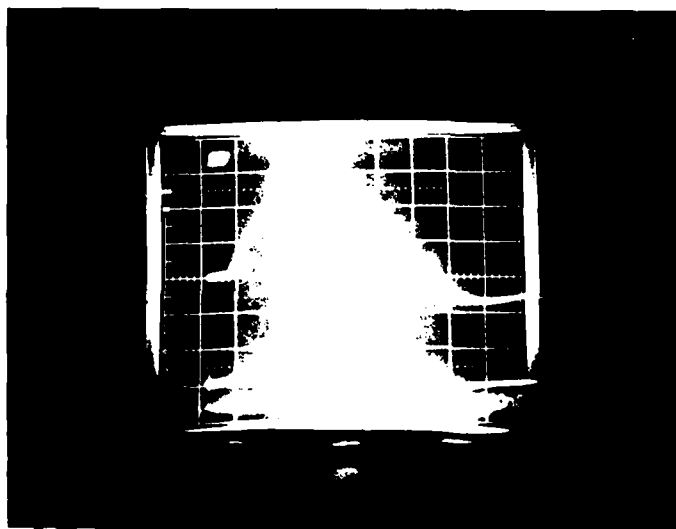
1283

Date 6-14-85
 Test Point 48-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) /div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments: ---



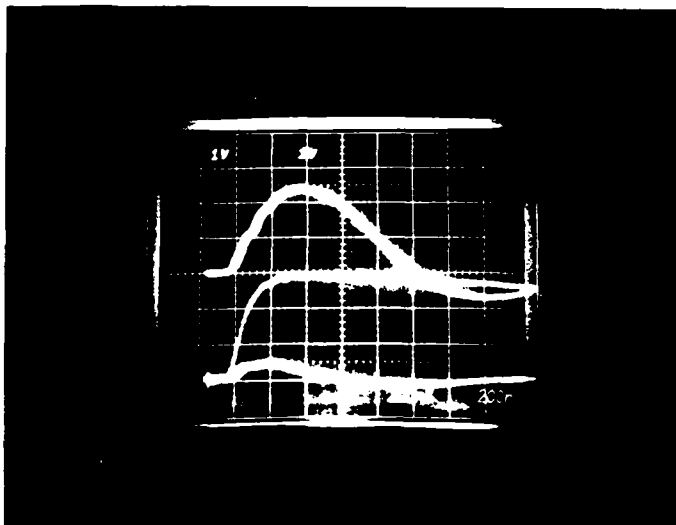
1284

Date 6-14-85
 Test Point 48-T25-6/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) /div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments: ---



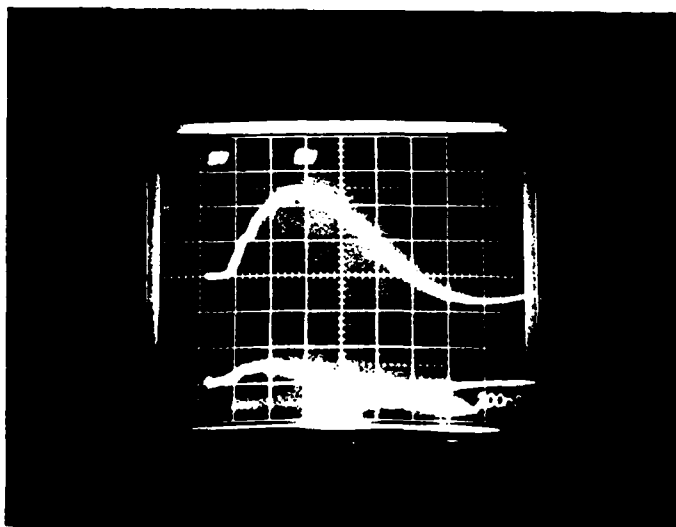
1285

Date 6-14-85
 Test Point 48-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments:



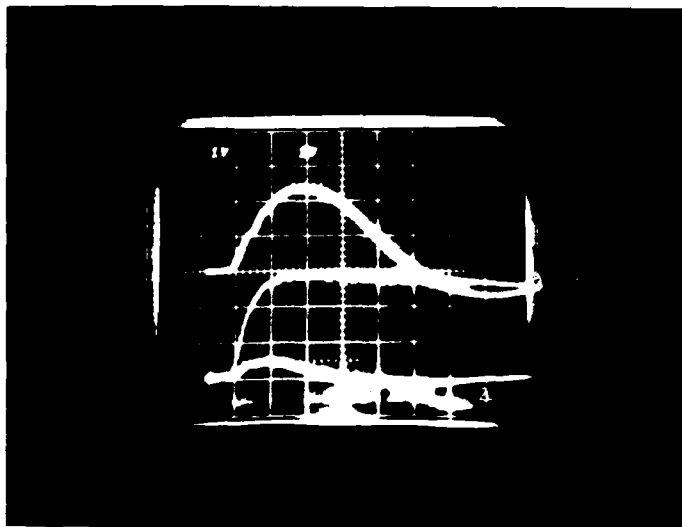
1286

Date 6-14-85
 Test Point 48-T25-6/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments:



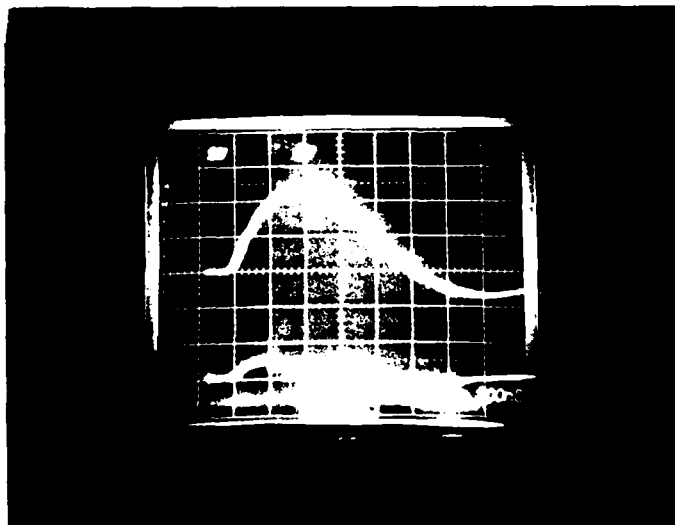
1287

Date 6-14-85
 Test Point 48-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25 kV
 Data Link
 Comments: 1288



1288

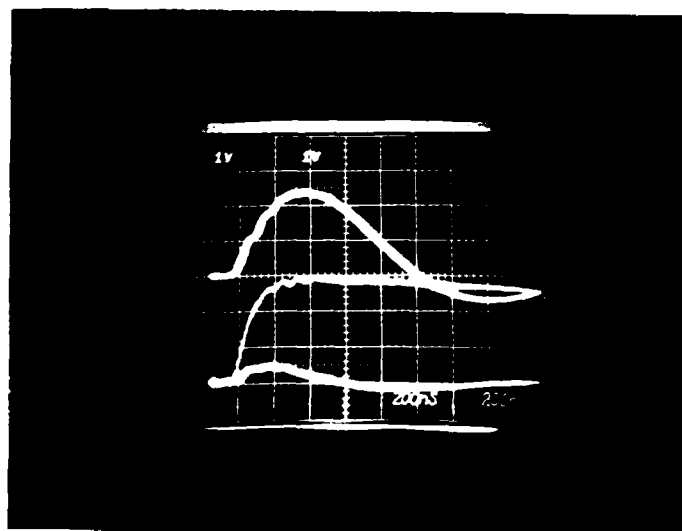
Date 6-14-85
 Test Point 48-T25-4/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25 kV
 Data Link
 Comments: 1289



1289

Date 6-14-85
 Test Point 48-T25-1/5-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000 A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) /div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link

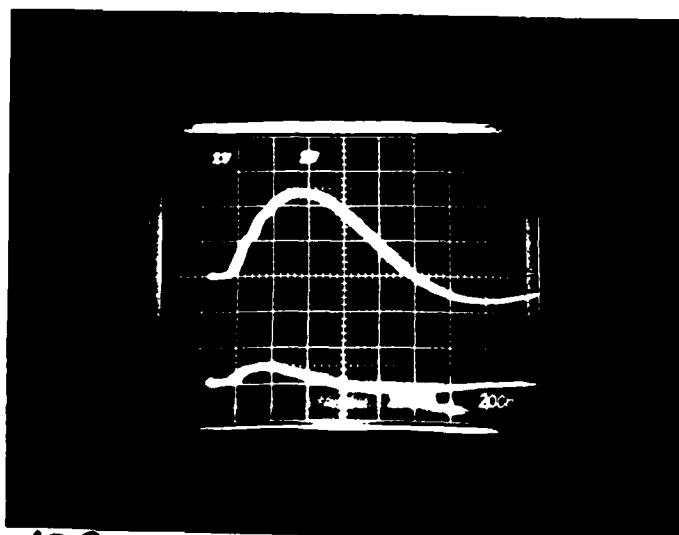
Comments: 277



1290

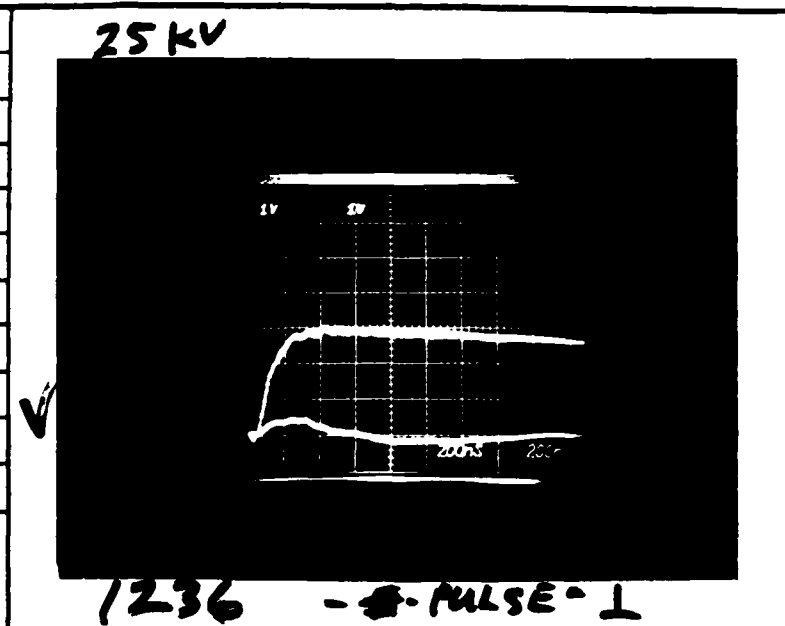
Date 6-14-85
 Test Point 48-T25-1/10-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000 A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) /div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link

Comments: 271

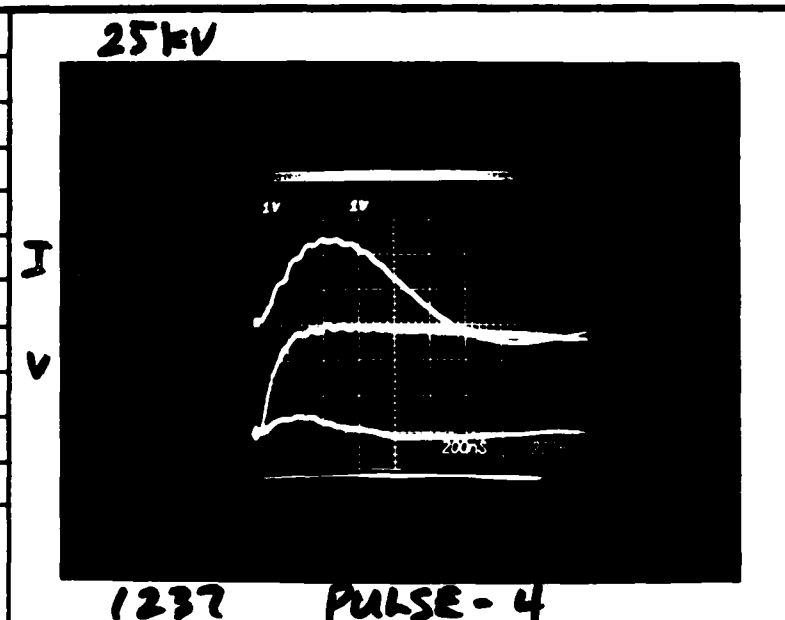


1291

Date	6-13-85
Test Point	50-T25-1-A
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) ns/div 2
Configuration	
Pulser Level	25 kV
Data Link	
Comments:	1236



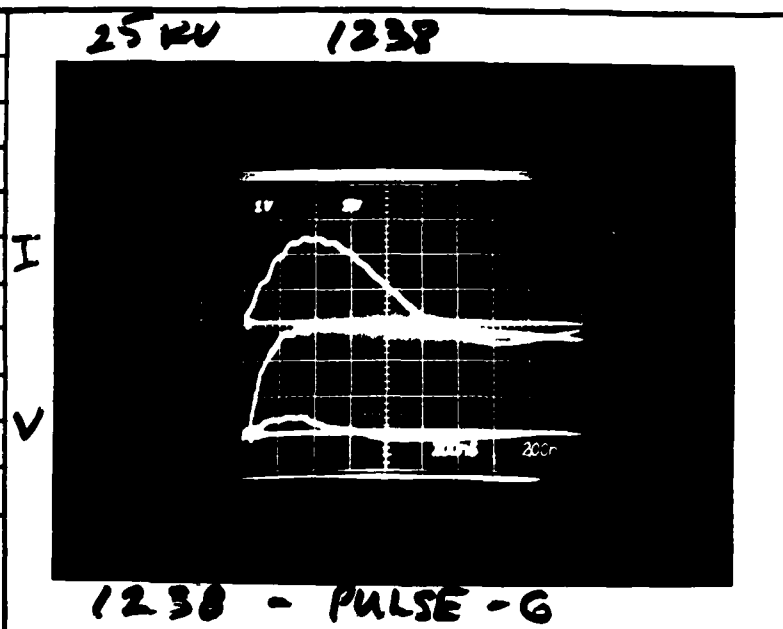
Date	6-13-85
Test Point	50-T25-4-A
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) ns/div 2
Configuration	
Pulser Level	25 kV
Data Link	
Comments:	1237



- 51 -

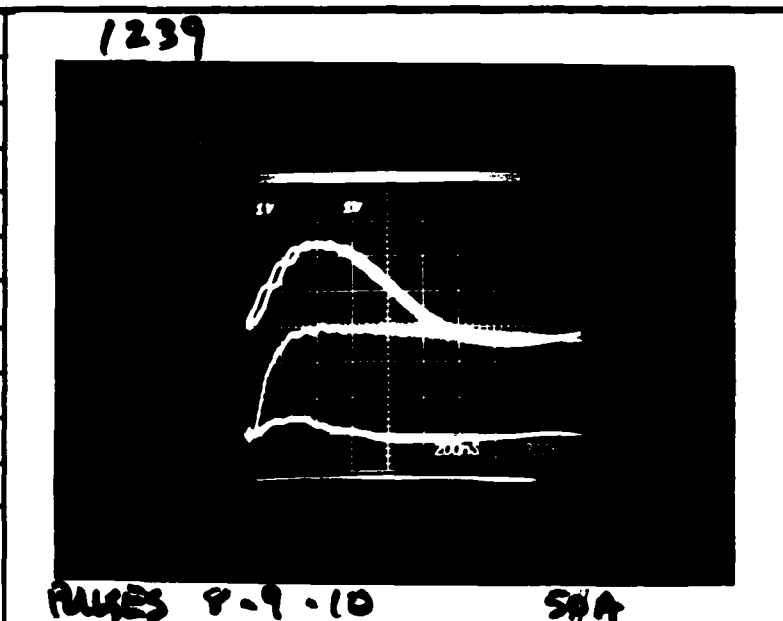
Date	6-13-85
Test Point	50-T25-6-A
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	200 ns/div 2
Vertical	1V(8000V) mV/div 2
Configuration	
Pulse Level	25 kV
Data Link	
Comments:	

1238



Date	6-13-85
Test Point	50-T25-8-10-A
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	200 ns/div 2
Vertical	1V(8000V) ns/div 2
Configuration	
Pulse Level	25 kV
Data Link	
Comments:	

1239

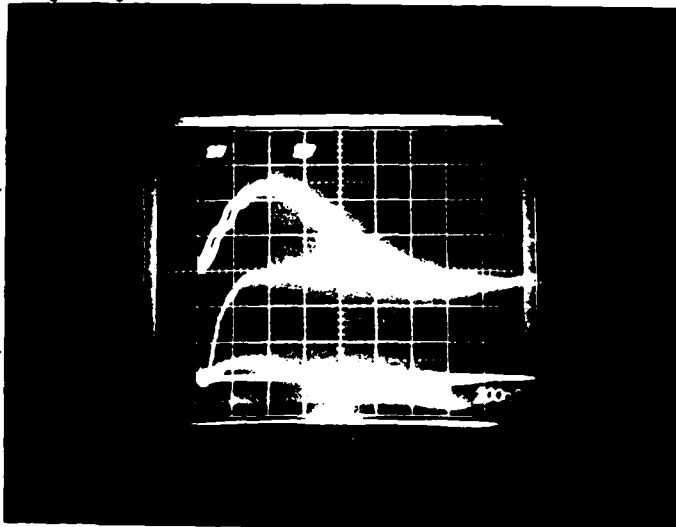


Date	6-13-85
Test Point	50-T25-1-5-B
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) ns/div 2
Configuration	
Pulse Level	25KV
Data Link	

Comments:

1240

1240



1-5 Pulses

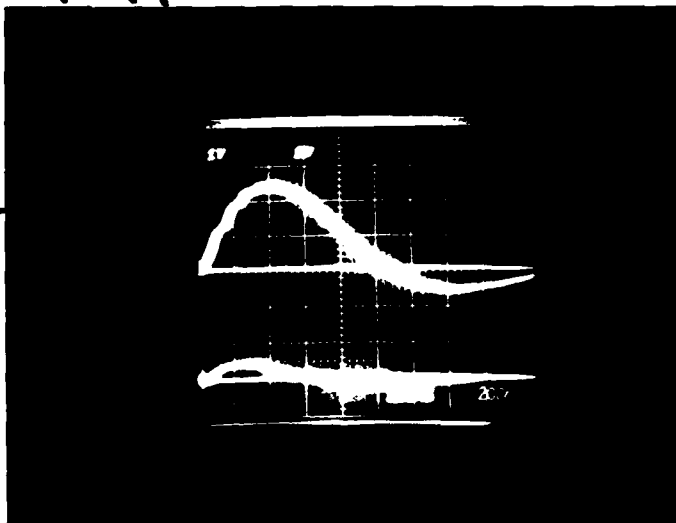
50B

Date	6-13-85
Test Point	50-T25-6-10-B
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) ns/div 2
Configuration	
Pulse Level	25KV
Data Link	

Comments:

1245

1241

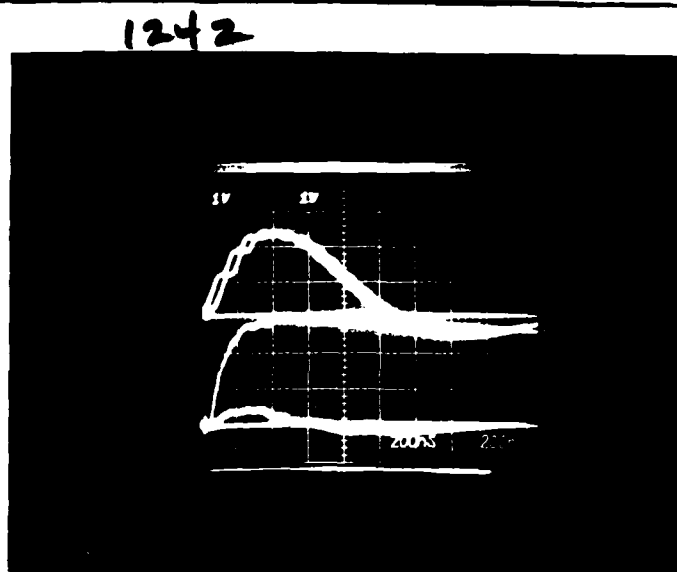


Pulses 6-10

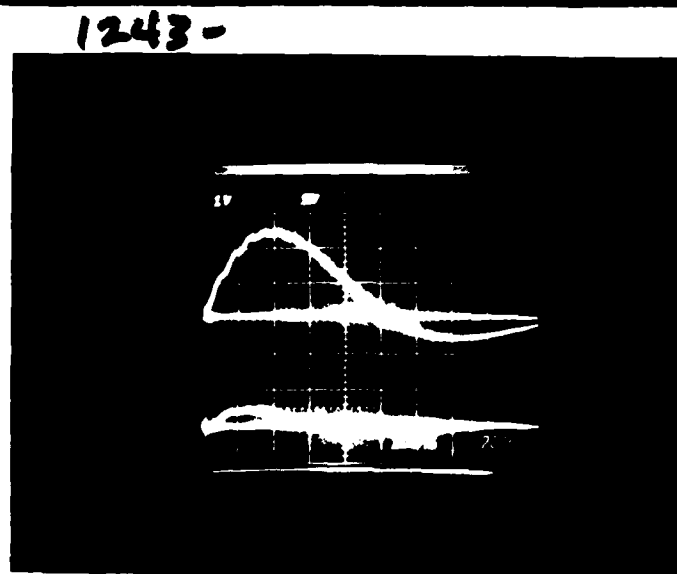
50B

51

Date	6-13-85
Test Point	5B-T25-1-5-C
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) ns/div 2
Configuration	
Pulser Level	25KV
Data Link	
Comments:	1242



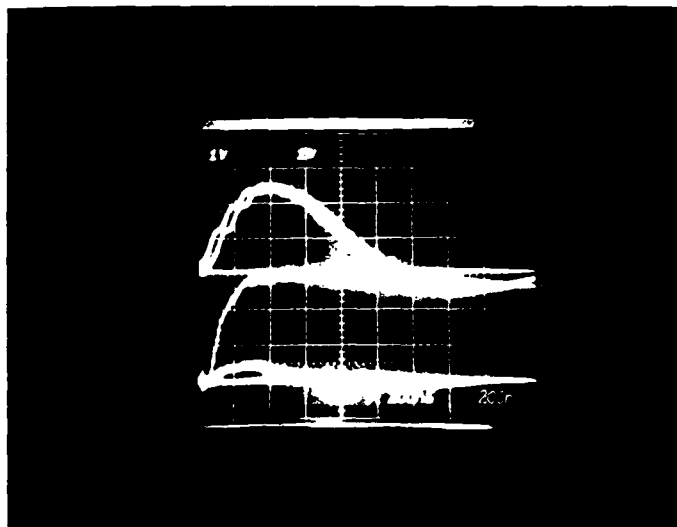
Date	6-13-85
Test Point	5B-T25-6-10-C
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) ns/div 2
Configuration	
Pulser Level	25KV
Data Link	
Comments:	1243



51

Date	6-13-85		
Test Point	50-T25-1-5-D		
Amplification	dB		
Attenuation	dB		
Horizontal	ns/div	1	
Vertical	mV/div	1	
Horizontal	200	ns/div	2
Vertical	LV(8000V)	ns/div	2
Configuration			
Pulse Level	25KV		
Data Link			
Comments:			

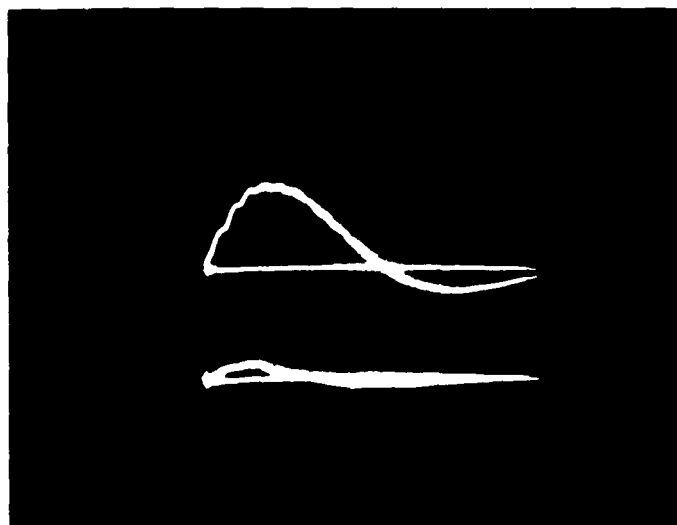
1244



1244 -

50-D

Date	6-13-85		
Test Point	50-T25-6-10-D		
Amplification	dB		
Attenuation	dB		
Horizontal	ns/div	1	
Vertical	mV/div	1	
Horizontal	200	ns/div	2
Vertical	LV(8000V)	ns/div	2
Configuration			
Pulse Level	45KV		
Data Link			
Comments:			

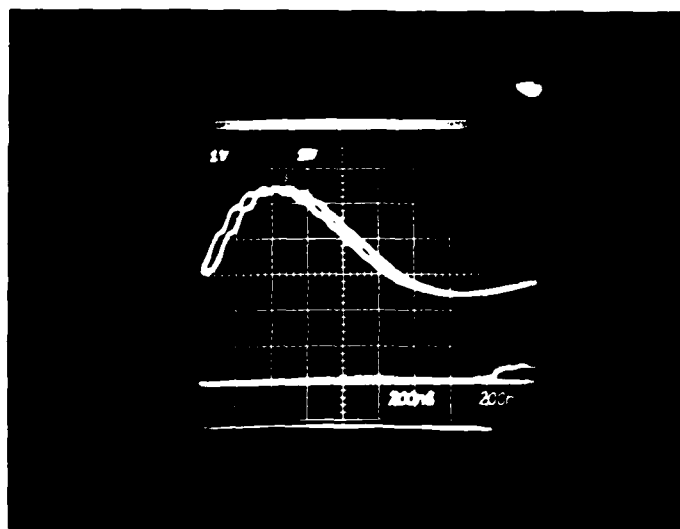


1245

50-D

SAME SCALE AS ABOVE (TOP)

Date 6-13-85
 Test Point 50-T25-1-5-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 200 ns/div 1
 Vertical 1V(8000V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration
 Pulsar Level 25 kV
 Data Link
 Comments:



1246

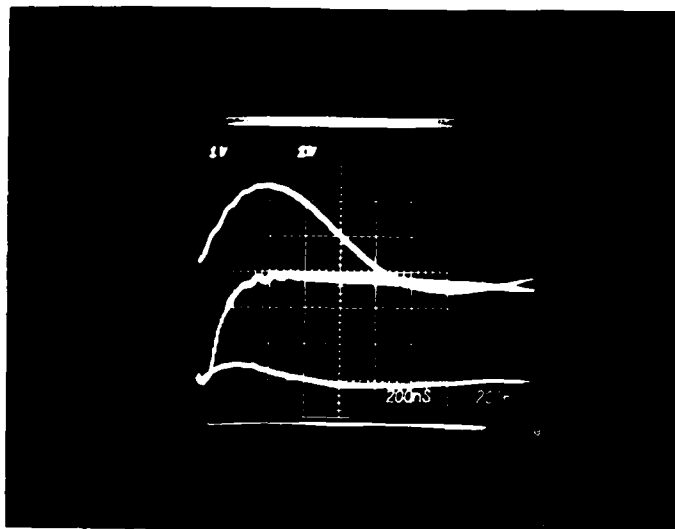
Date 6-13-85
 Test Point 50-T25-6-10-E
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 200 ns/div 1
 Vertical 1V(8KV) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration
 Pulsar Level 25 kV
 Data Link
 Comments:



1247

NO VOLTAGE TRIGGER

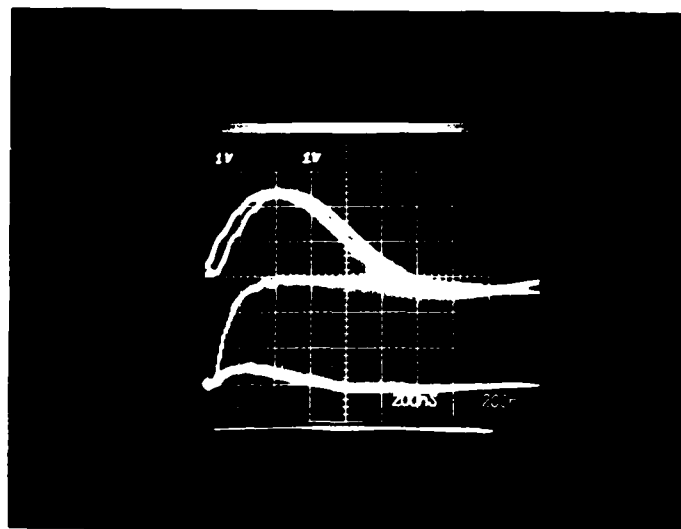
Date	6-13-85
Test Point	51-T25-11-E
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) ns/div 2
Configuration	
Pulser Level	25KV
Data Link	
Comments:	1248



Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date 6-13-85
 Test Point 54-T25-1-5-A
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 200 ns/div 1
 Vertical 1V (8KV) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25KV
 Data Link
 Comments:

1249



1249

Date 6-13-85
 Test Point 54-T25-6-8-A
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 200 ns/div 1
 Vertical 1V (8KV) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25KV
 Data Link
 Comments:

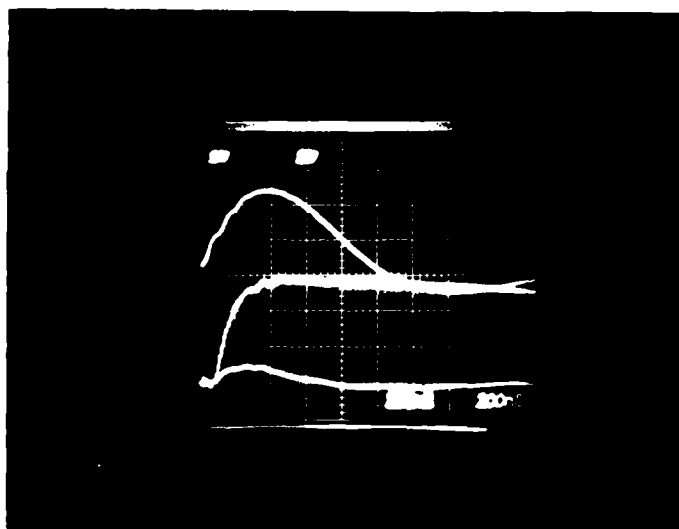
1250



1250

PICTURES - 6-8

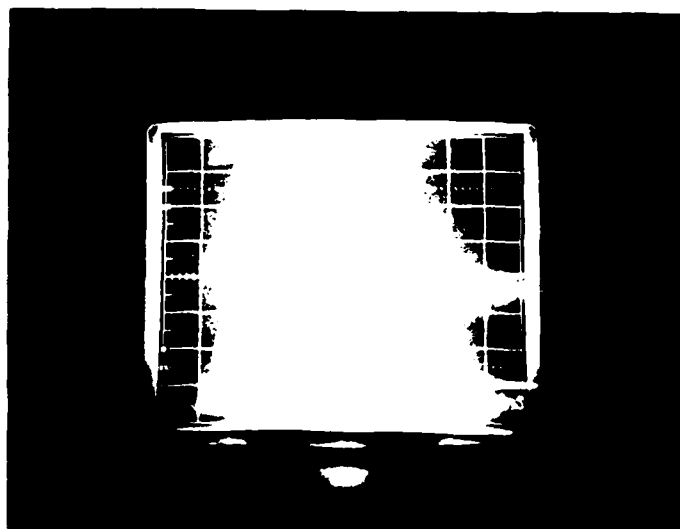
Date	6-13-85
Test Point	54-T25-11-A
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	200 ns/div 2
Vertical	IV (8000V) ns/div 2
Configuration	
Pulser Level	25 KV
Data Link	
Comments:	1251



1251

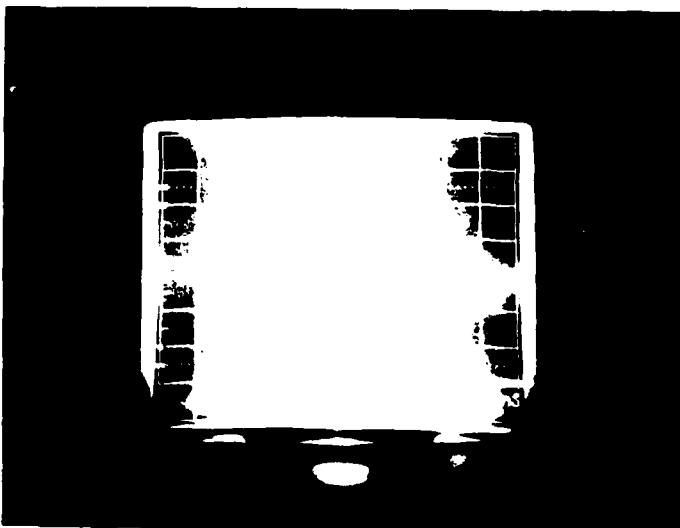
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date 6-13-85
 Test Point 54-T25-1/5-B
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 200 ns/div 1
 Vertical 1V (8kV) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ns/div 2
 Configuration
 Pulsar Level 25 kV
 Data Link
 Comments: 1252



1252

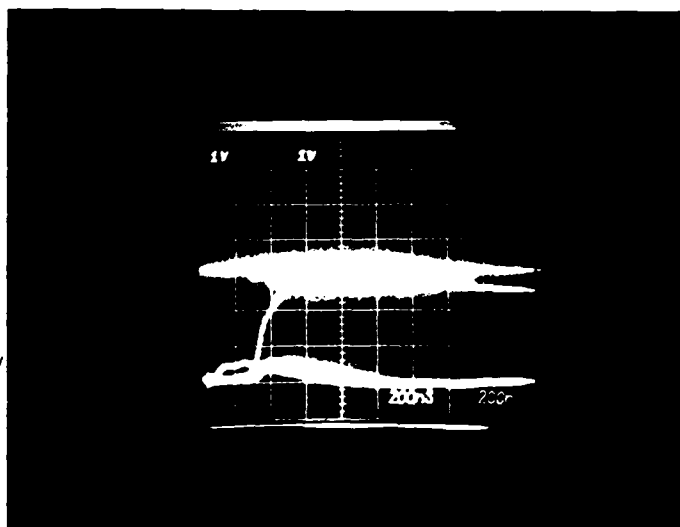
Date 6-13-85
 Test Point 54-T25-6/10-B
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 200 ns/div 1
 Vertical 1V (8kV) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ns/div 2
 Configuration
 Pulsar Level 25 kV
 Data Link
 Comments: 1253



1253

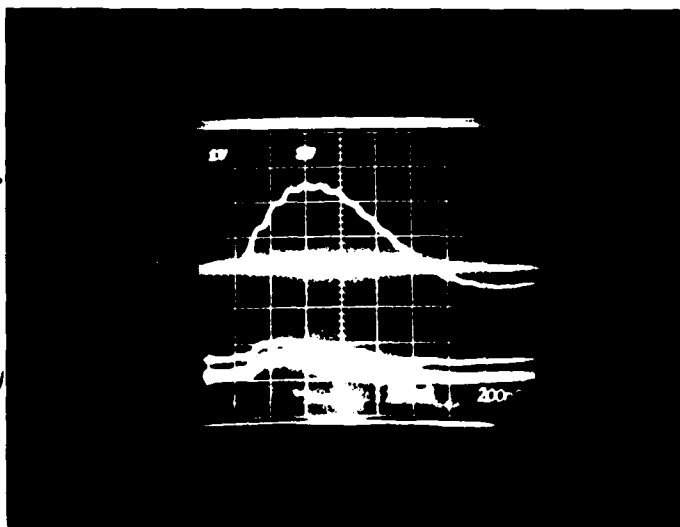
DEVICE PEAK VOLTAGE (4 kV).

Date	6-14-85
Test Point	54-T25-11/15-B
Amplification	0 dB
Attenuation	dB
Horizontal	200 ns/div 1
Vertical	1V (8KV) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8KV) ns/div 2
Configuration	
Pulser Level	25 KV
Data Link	
Comments:	



1254

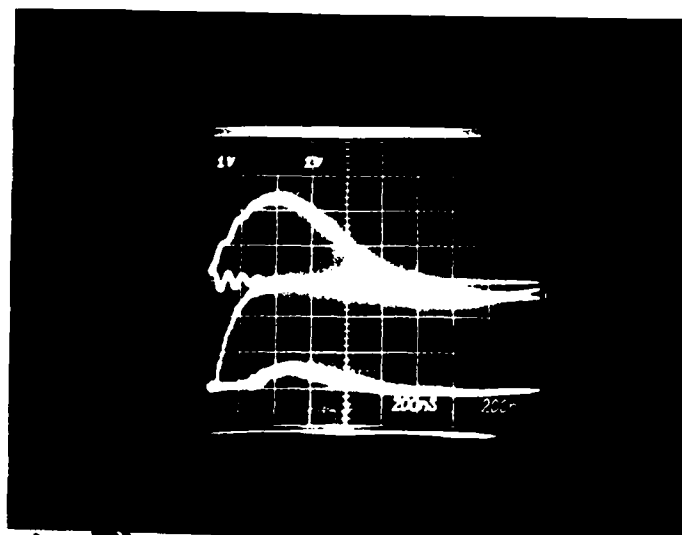
Date	6-14-85
Test Point	54-T25-14/20-B
Amplification	0 dB
Attenuation	dB
Horizontal	200 ns/div 1
Vertical	1V (8KV) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V (8KV) ns/div 2
Configuration	
Pulser Level	25 KV
Data Link	
Comments:	



1255

Date 6-14-85
 Test Point 54-T25-1/5-C
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 200 ns/div 1
 Vertical 1V(8000V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration
 Pulsar Level 25 KV
 Data Link

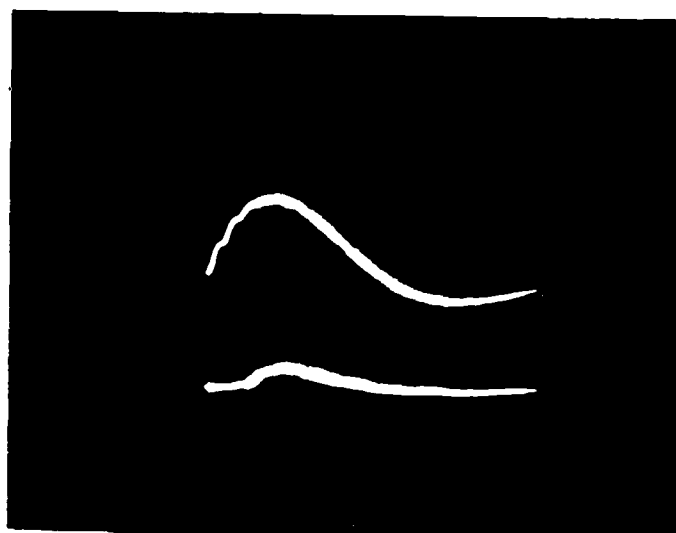
Comments:



1256

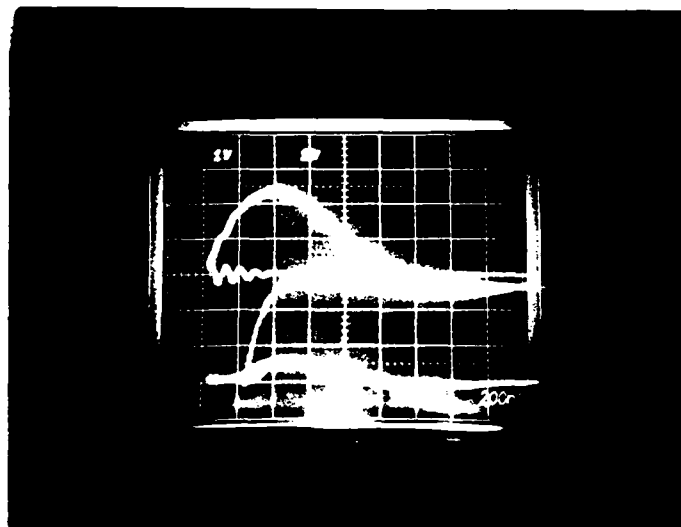
Date 6-14-85
 Test Point 54-T25-6/10-C
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 200 ns/div 1
 Vertical 1V(8KV) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration
 Pulsar Level 25 KV
 Data Link

Comments:

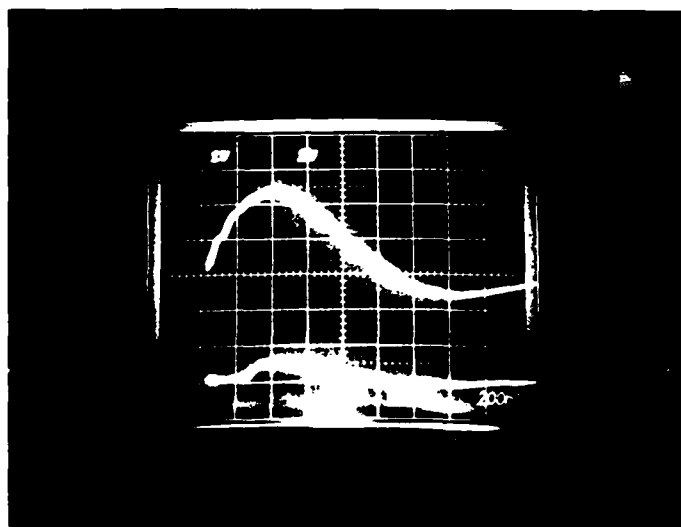


1257

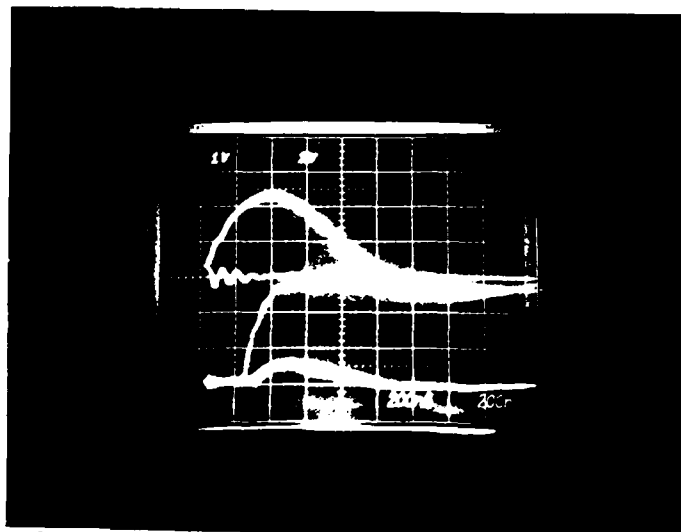
Date 6-14-85
 Test Point 54-T25 1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8KV) ns/div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments:



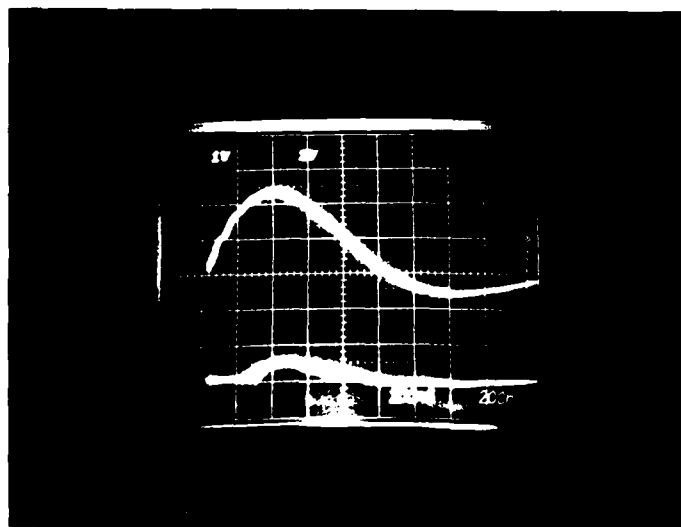
Date 6-14-85
 Test Point 54-T25-9/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8KV) ns/div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments:



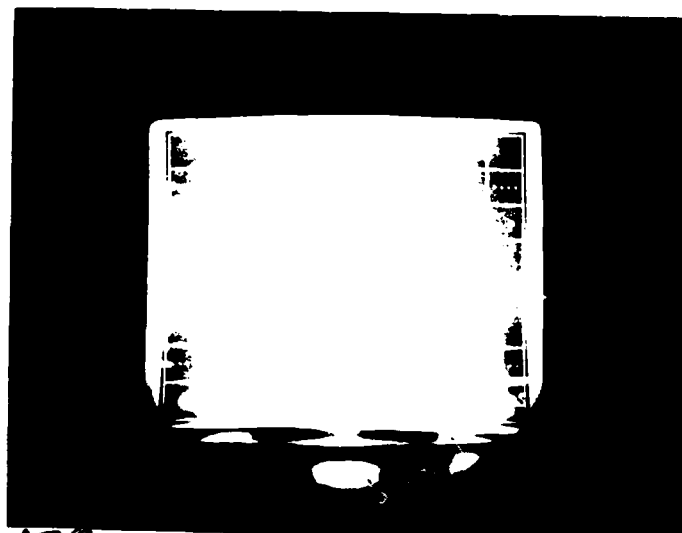
Date 6-14-85
 Test Point 54-T25-1/5-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mA/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25000 V
 Data Link
 Comments:



Date 6-14-85
 Test Point 54-T25-6/10-E
 Amplification 0dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mA/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25 kV
 Data Link
 Comments:



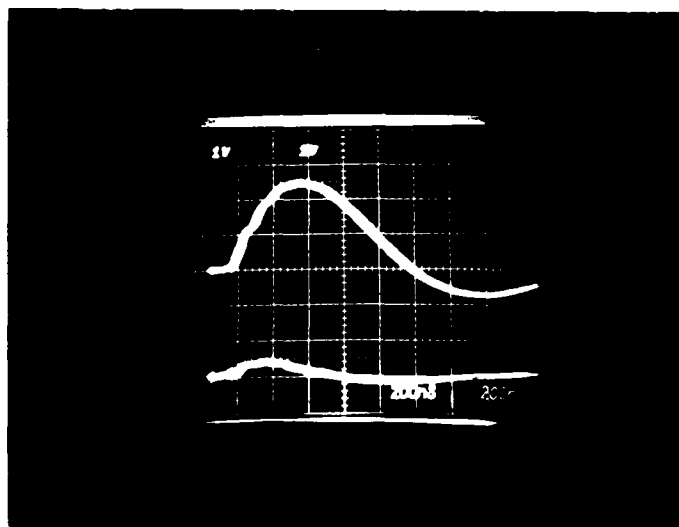
Date	6-14-85
Test Point	57-T25-1/5-A
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V(2000A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V(8000V) mV/div 2
Configuration	-20 dB
Pulser Level	25kV
Data Link	
Comments:	



1292

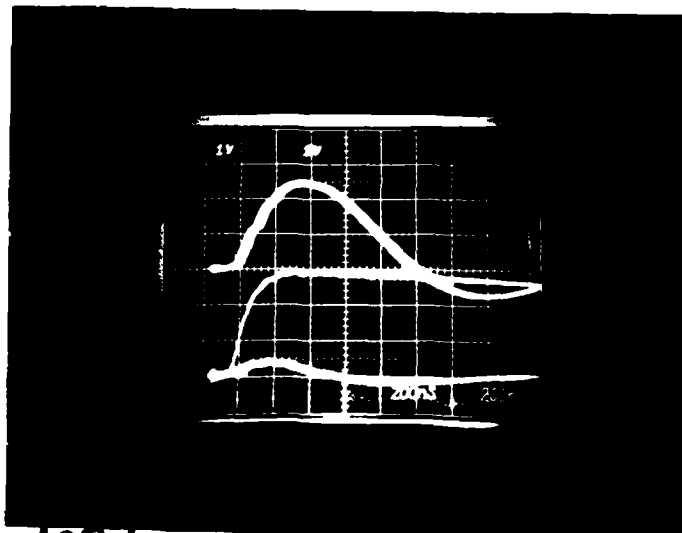
DEVICE CLAMPED AT $\approx$ 3000V

Date	6-14-85
Test Point	57-T25-1/5-A
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V(2000A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V(8000V) mV/div 2
Configuration	-20 dB
Pulser Level	25kV
Data Link	
Comments:	

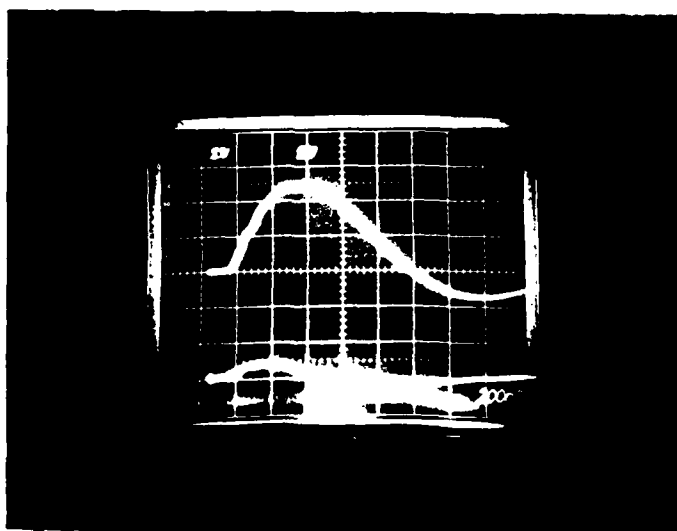


1293

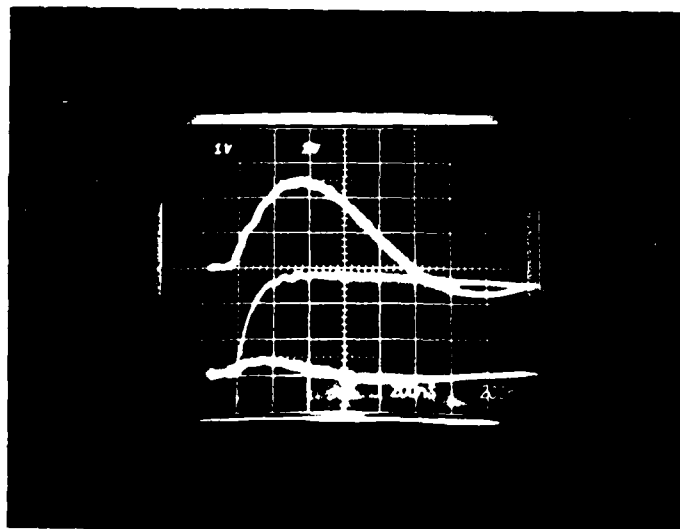
Date 6-14-85
 Test Point 57-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000⁹V) ~~ns~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~ns~~/div 2
 Configuration -20dB
 Pulsar Level 25,000V
 Data Link
 Comments:



Date 6-14-85
 Test Point 57-T25-4/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000 A/V) ~~ns~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~ns~~/div 2
 Configuration -20dB
 Pulsar Level 25KV
 Data Link
 Comments:

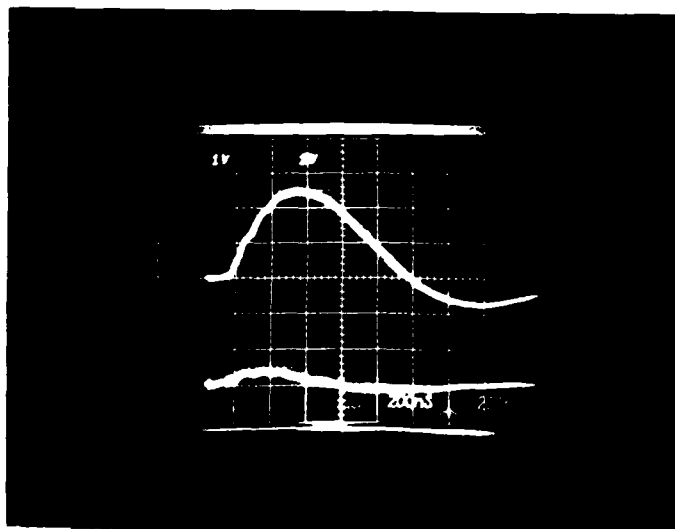


Date 6-14-85
 Test Point 57-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



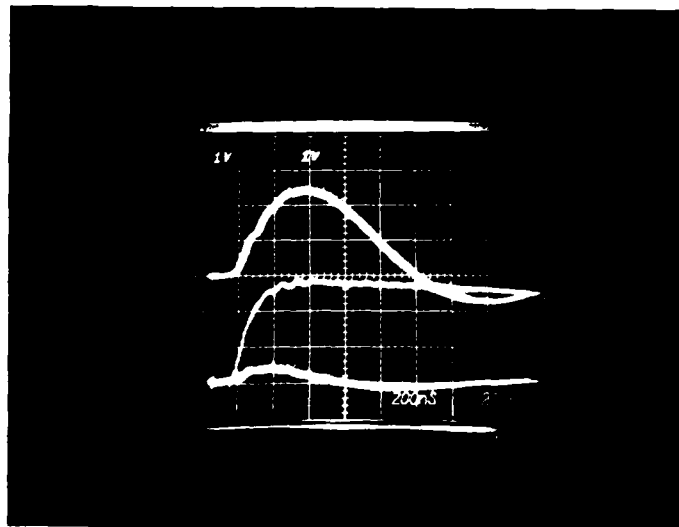
1296

Date 6-14-85
 Test Point 57-T25-9/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



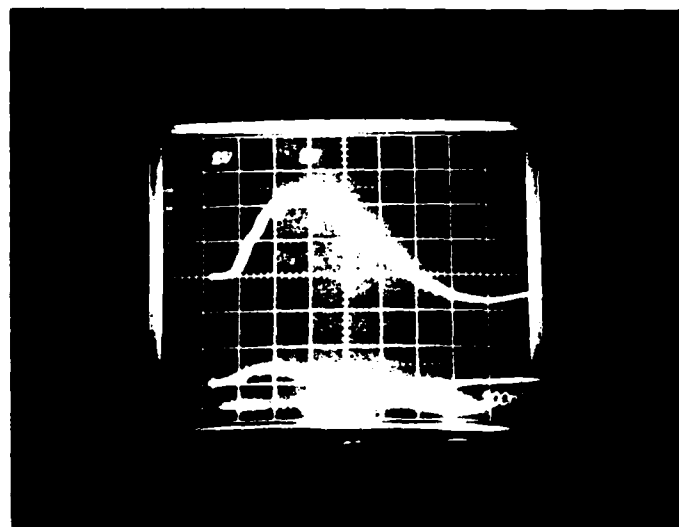
1297

Date 6-14-85
 Test Point 57-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) = /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) = /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 218



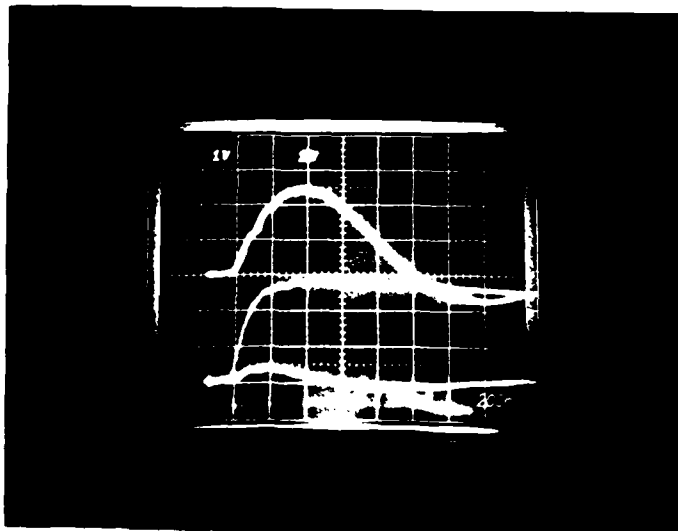
1298

Date 6-14-85
 Test Point 57-T25-4/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) = /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) = /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 219

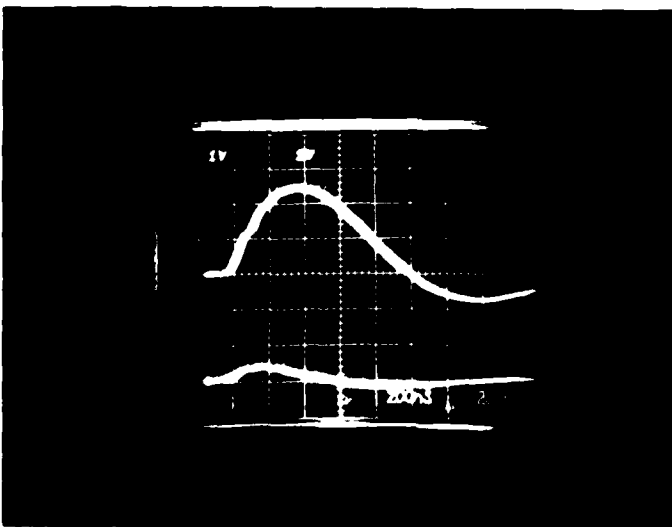


1299

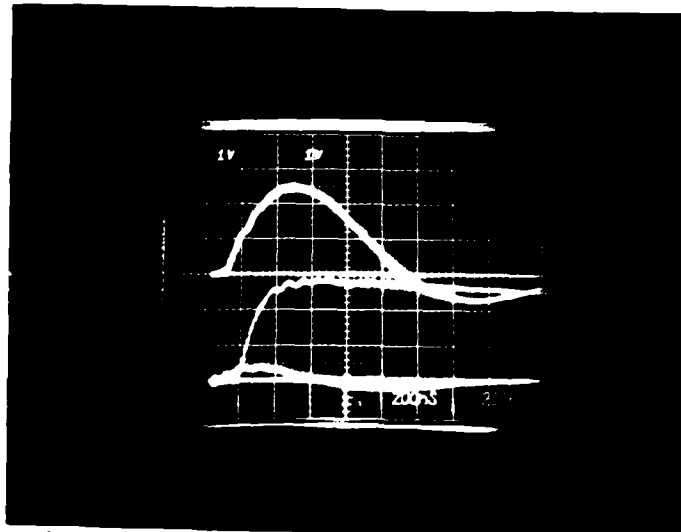
Date 6-14-85
 Test Point 57-T25-1/5-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1300



Date 6-14-85
 Test Point 57-T25-9/10-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1301

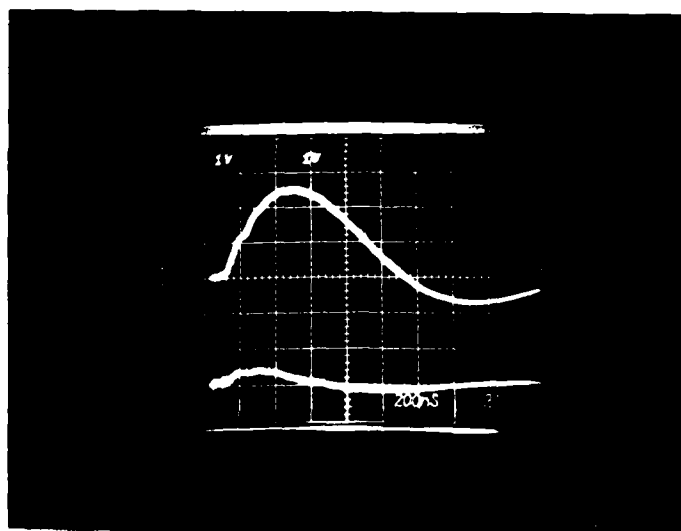


Date 6-14-85
 Test Point 60-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



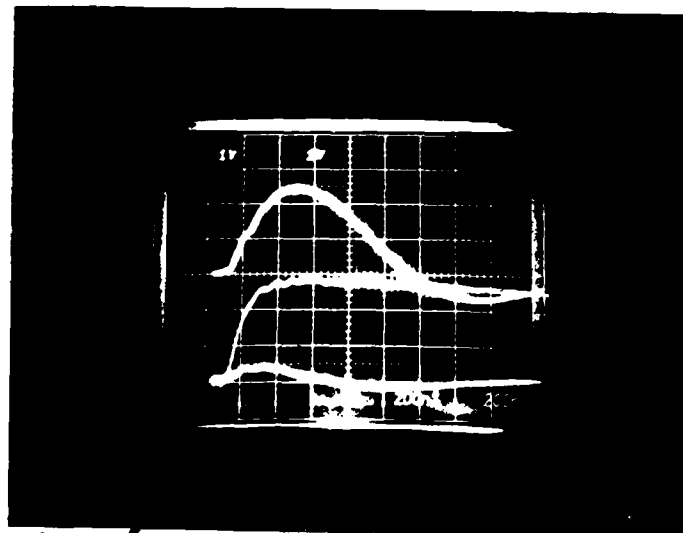
1382

Date 6-14-85
 Test Point 60-T25-9/10-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



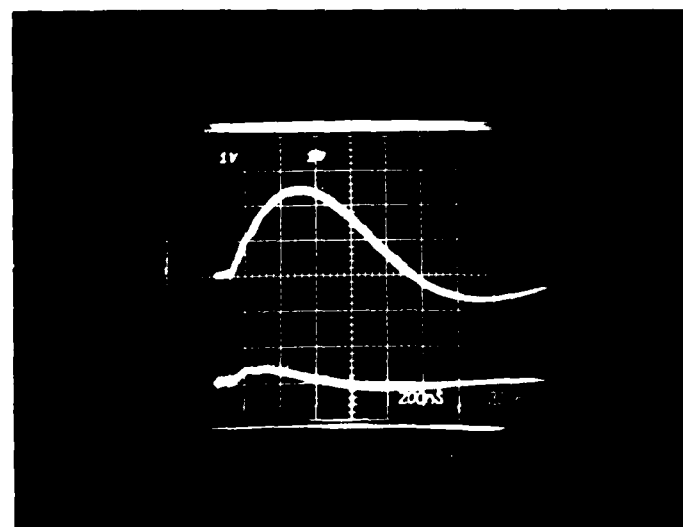
1383

Date	6-14-85
Test Point	60-T25-1/5-B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) μ A/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) mV/div 2
Configuration	-20 dB
Pulse Level	25,000 V
Data Link	
Comments:	1304



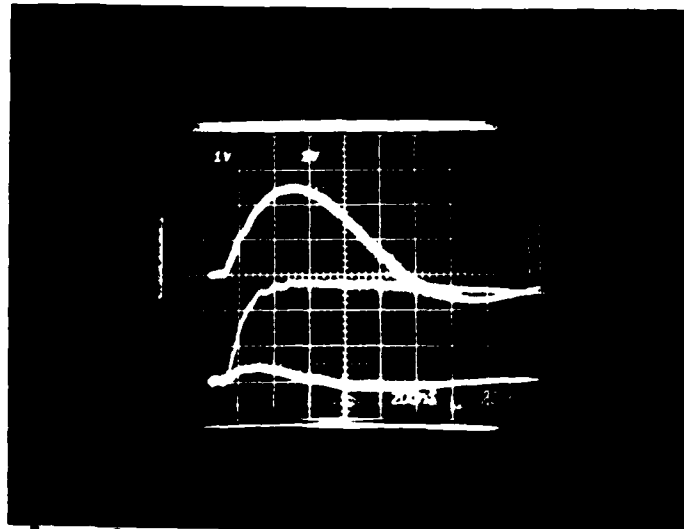
1304

Date	6-14-85
Test Point	60-T25-9/10-B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) μ A/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) mV/div 2
Configuration	-20 dB
Pulse Level	25,000 V
Data Link	
Comments:	1305

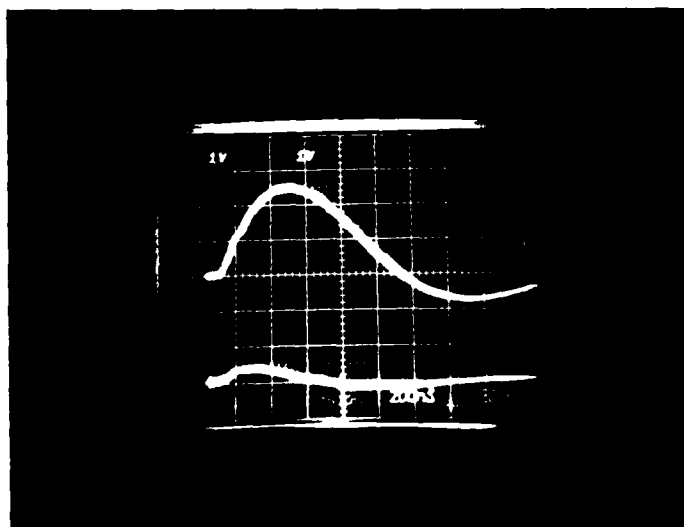


1305

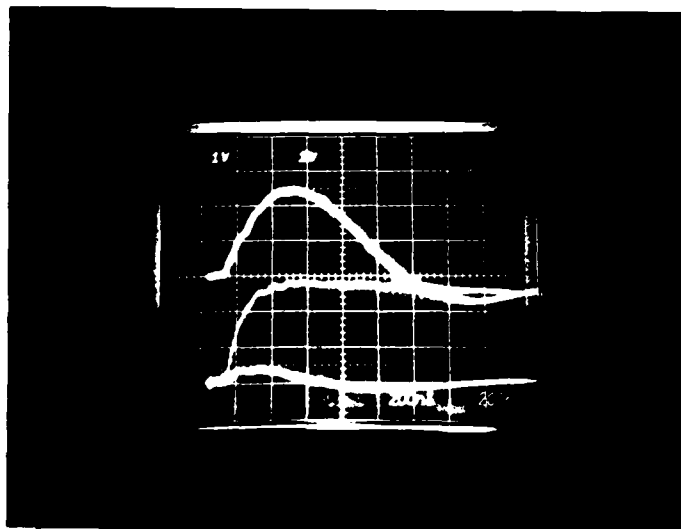
Date 6-14-85
 Test Point 60-T25-15-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulse Level 25,000 V
 Data Link
 Comments: 1306



Date 6-14-85
 Test Point 60-T25-10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulse Level 25,000 V
 Data Link
 Comments: 1307

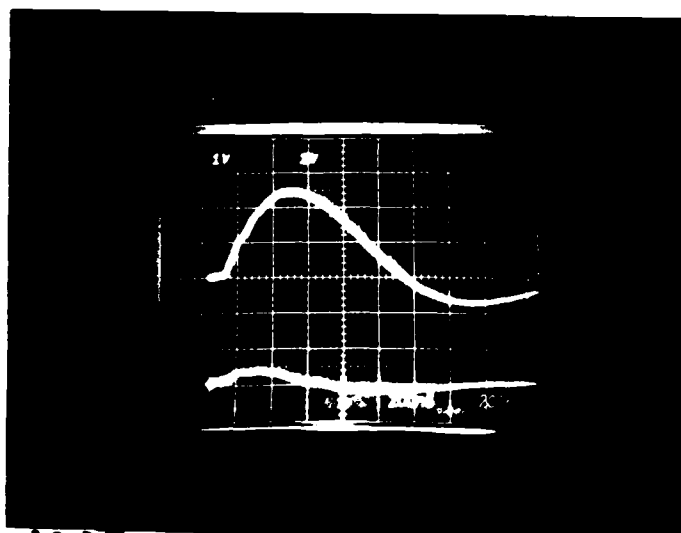


Date 6-14-85
 Test Point 60-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 308



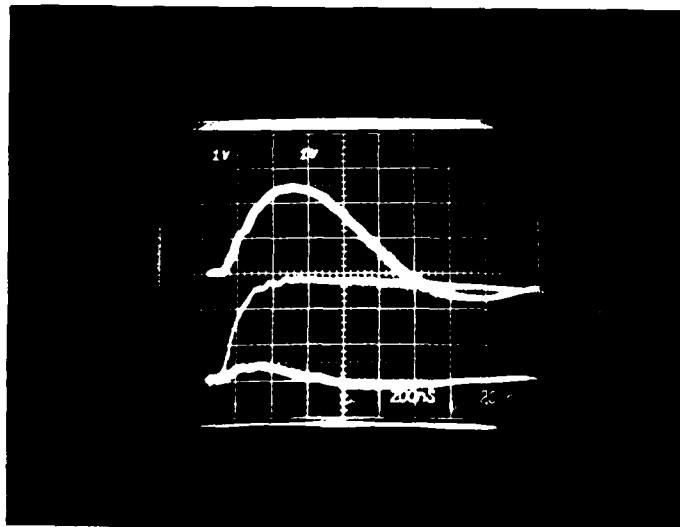
1308

Date 6-14-85
 Test Point 60-T25-9/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1309



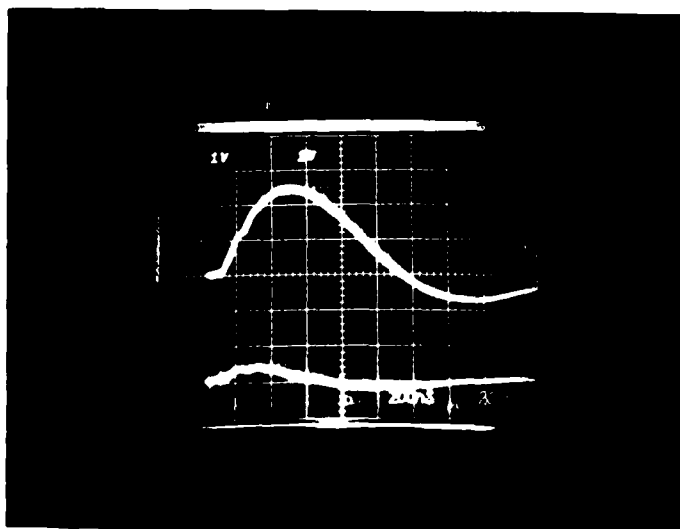
1309

Date 6-14-85
 Test Point 60-T25-1/5-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1310



1310

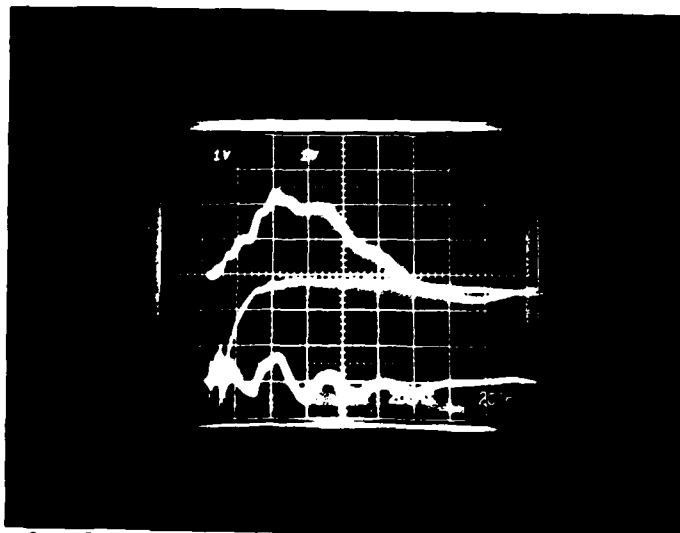
Date 6-14-85
 Test Point 60-T25-4/10-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1311



1311

Date 6-14-85
 Test Point 63-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

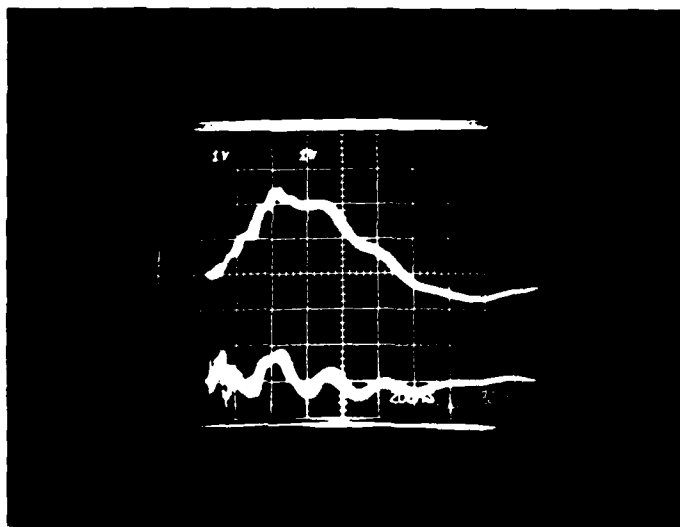
1312



1312

Date 6-14-85
 Test Point 63-T25-9/10-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

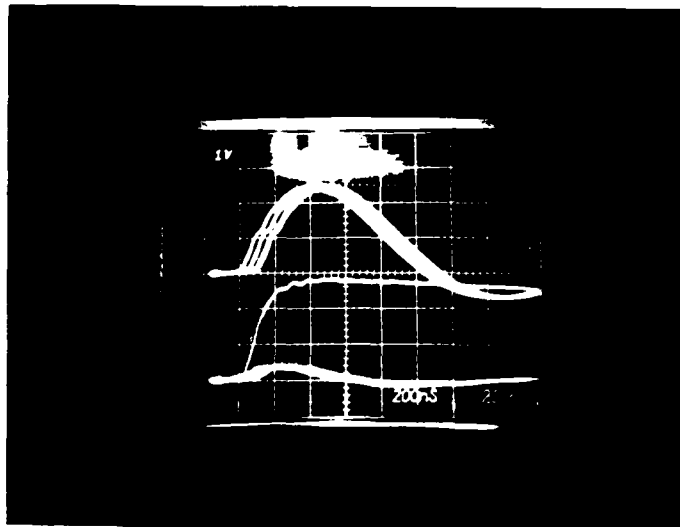
1313



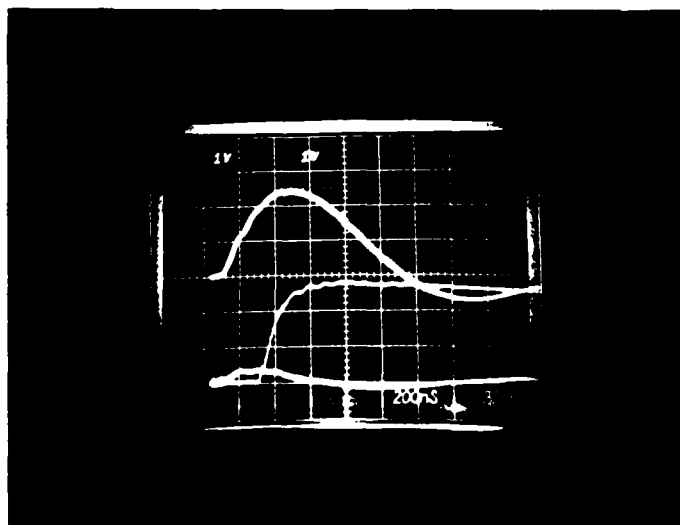
1313

INVALID - see replacement

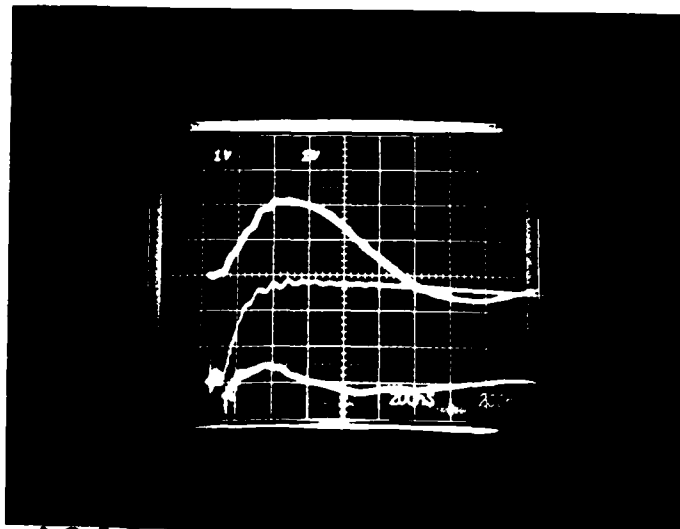
Date 6-14-85
 Test Point 63-T25-11/15-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000 μ V) ~~ms~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~ms~~/div 2
 Configuration -20 dB
 Pulsar Level 25 KV
 Data Link
 Comments:



Date 6-14-85
 Test Point 63-T25-11/15-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000 μ V) ~~ms~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~ms~~/div 2
 Configuration -20
 Pulsar Level 25 KV
 Data Link
 Comments:

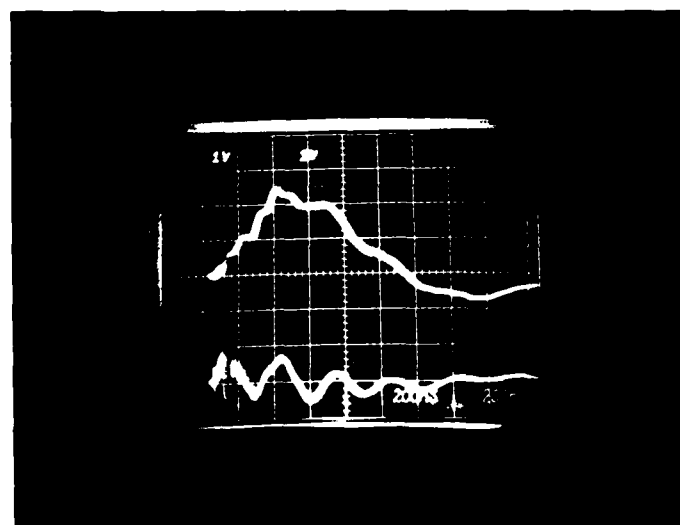


Date	6-14-85
Test Point	63-T25-1/5-B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) 1/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) 1/div 2
Configuration	-20 dB
Pulse Level	25,000 V
Data Link	
Comments:	



1314

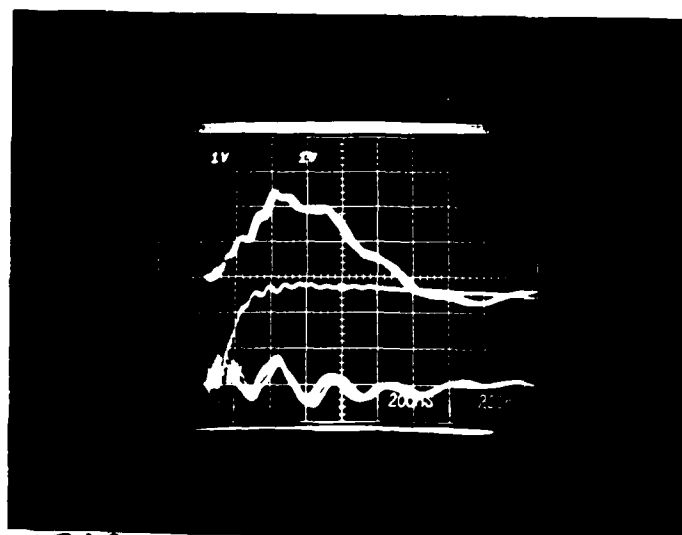
Date	6-14-85
Test Point	63-T25-9/10-B
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) 1/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) 1/div 2
Configuration	-20 dB
Pulse Level	25,000 V
Data Link	
Comments:	



1315

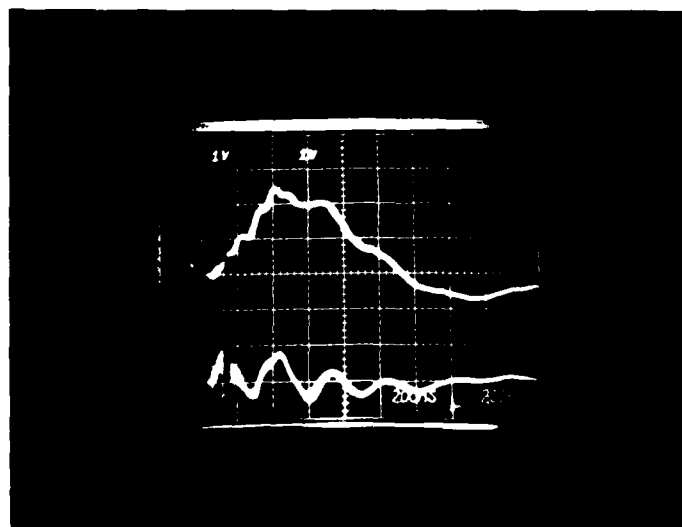
INVALID - see Replacement

Date	6-14-85
Test Point	63-T25-1/5-C
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) /div 2
Configuration	-20 dB
Pulser Level	25,000 V
Data Link	
Comments:	1316



1316

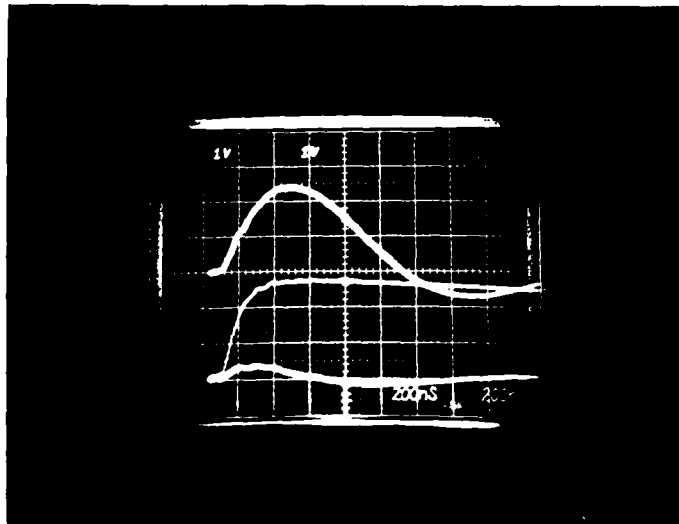
Date	6-14-85
Test Point	63-T25-910-C
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) /div 2
Configuration	-20 dB
Pulser Level	25,000 V
Data Link	
Comments:	1317



1317

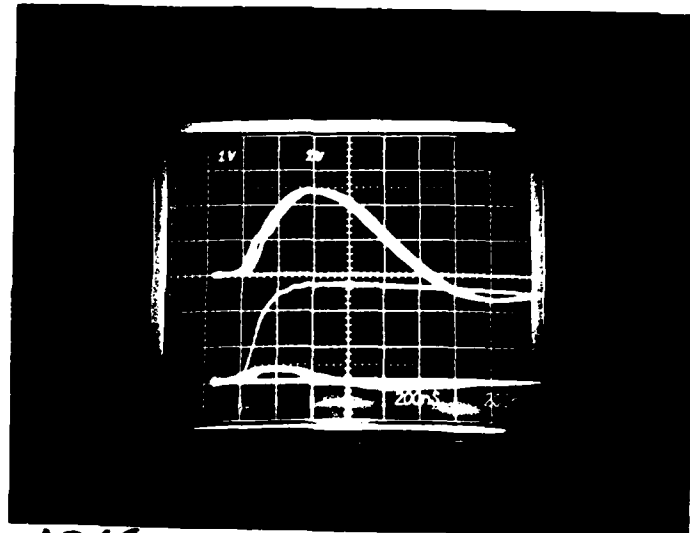
INVALID; see replacement

Date 6-14-85
 Test Point 63-T25-1/15-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000 V)/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000 V)/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



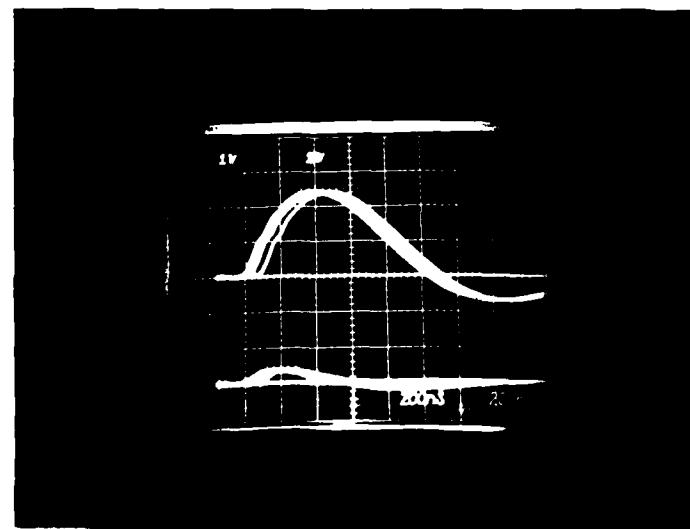
Date 6-14-85
 Test Point 63-T25-1/15-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000 V)/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000 V)/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

Date 6-14-85
 Test Point 63-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1318

Date 6-14-85
 Test Point 63-T25-9/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

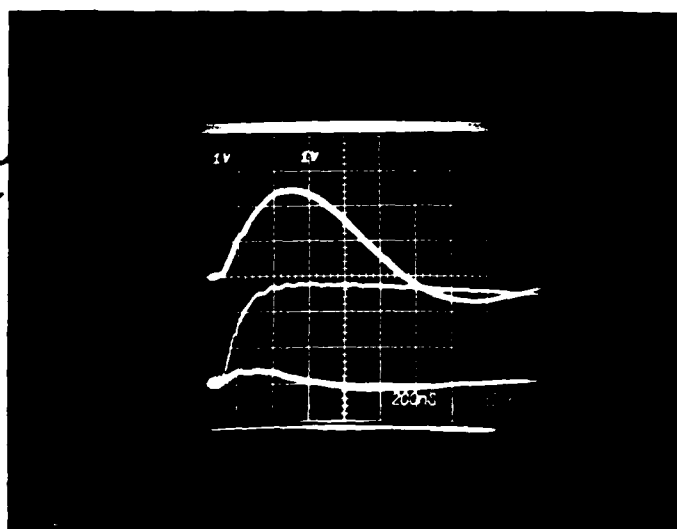


1319

Date 6-14-85
 Test Point 63-T25-15-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

I

V

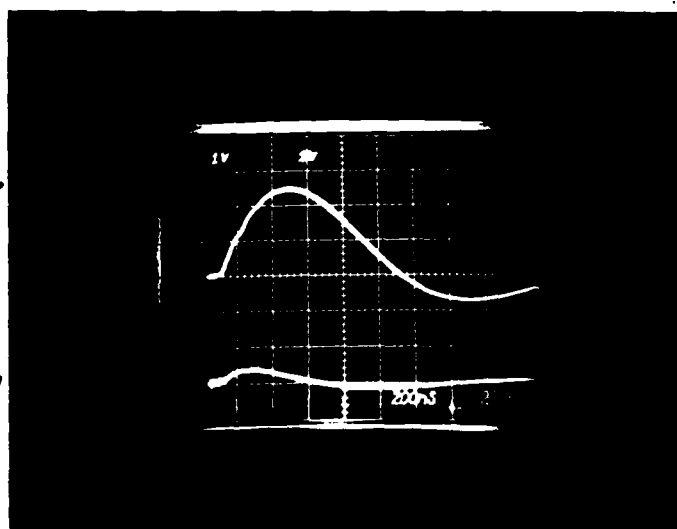


1322

Date 6-14-85
 Test Point 63-T25-10-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

I

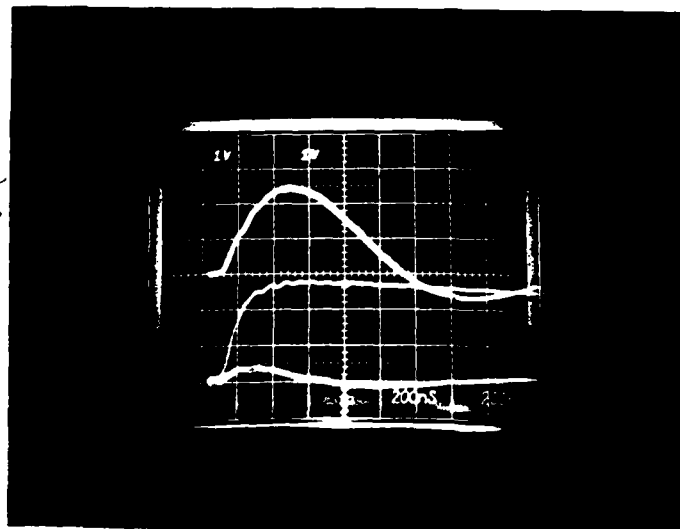
V



1323

Date	6-14-85
Test Point	66-T25-1/5-A
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) /div 2
Configuration	-20 dB
Pulse Level	25,000 V
Data Link	
Comments:	

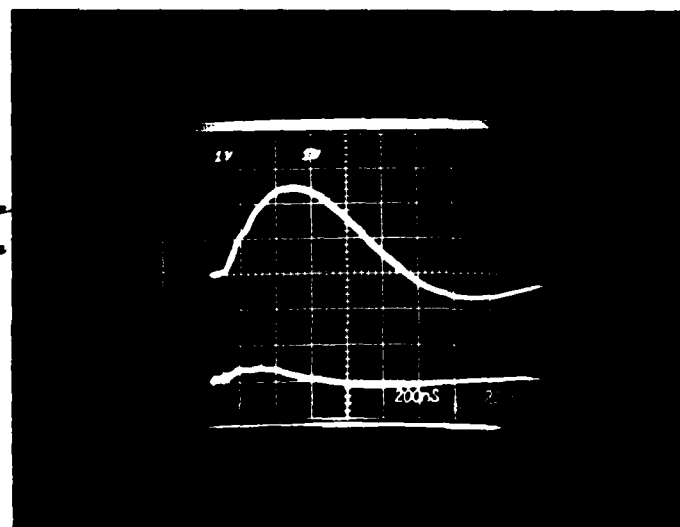
I
V



1324

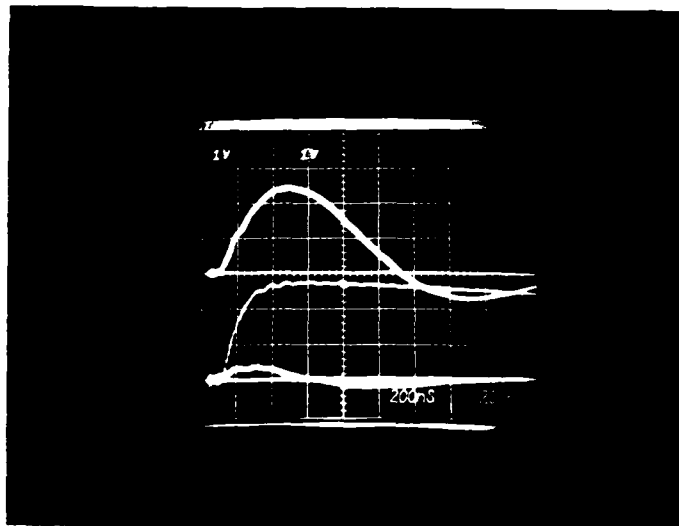
Date	6-14-85
Test Point	66-T25-9/10-A
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) /div 2
Configuration	-20 dB
Pulse Level	25,000 V
Data Link	
Comments:	

I
V

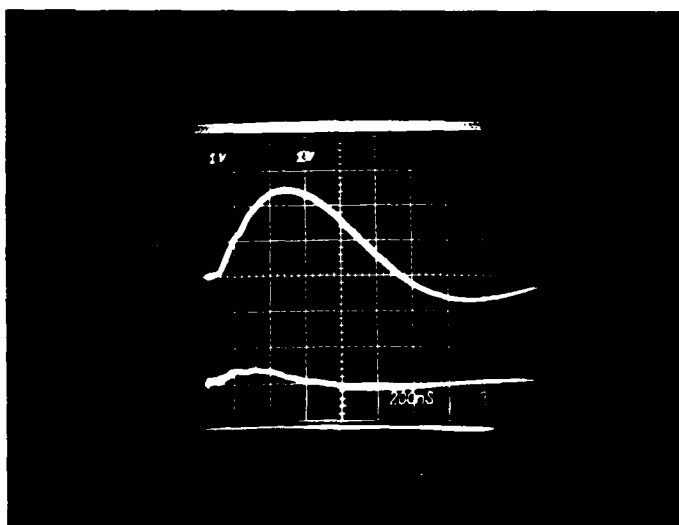


1325

Date 6-14-85
 Test Point 66-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~mm~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~mm~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 520

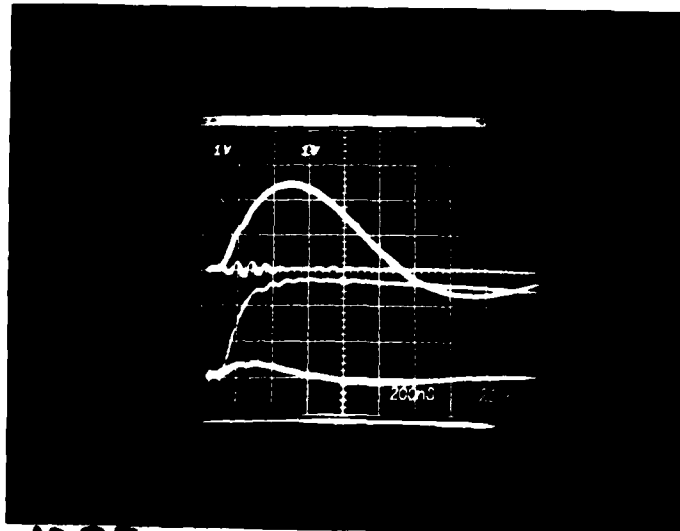


Date 6-14-85
 Test Point 66-T25-910-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~mm~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~mm~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 520



Date 6-14-85
 Test Point 66-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

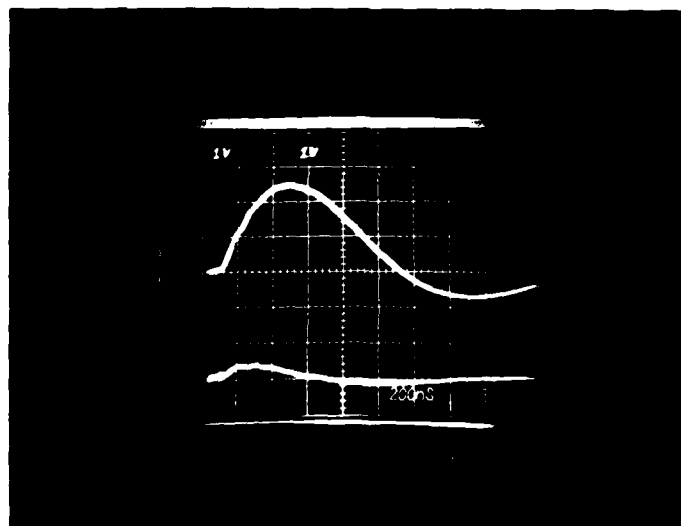
328



1328

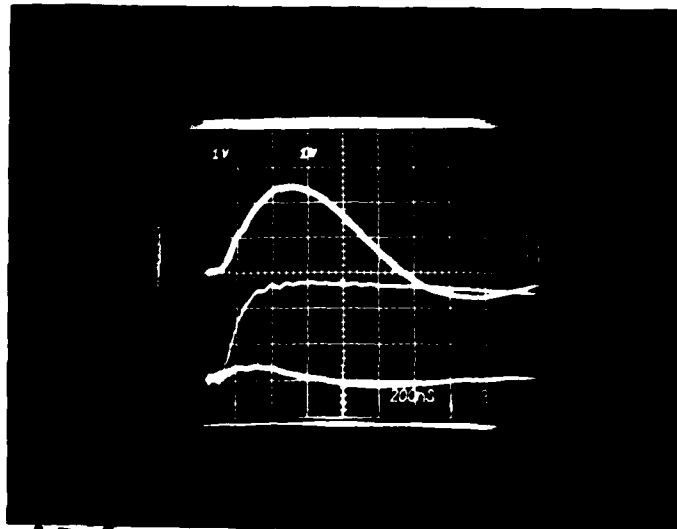
Date 6-14-85
 Test Point 66-T25-910-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

329



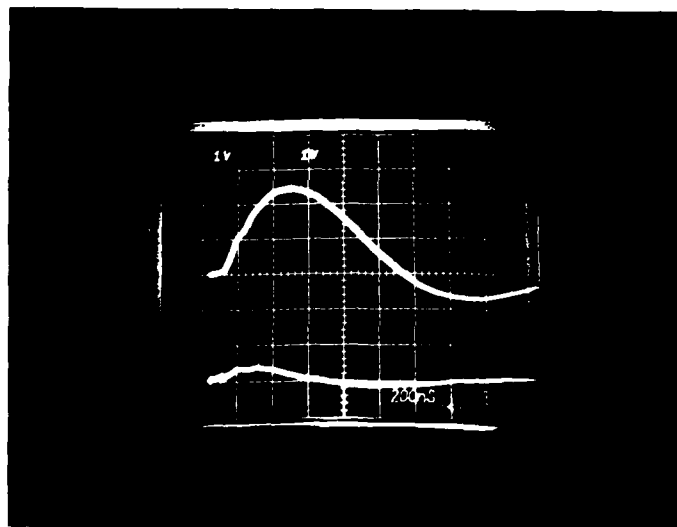
1329

Date 6-14-85
 Test Point 66-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ A/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ V/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1340



1340

Date 6-14-85
 Test Point 66-T25-1/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ A/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ V/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1341

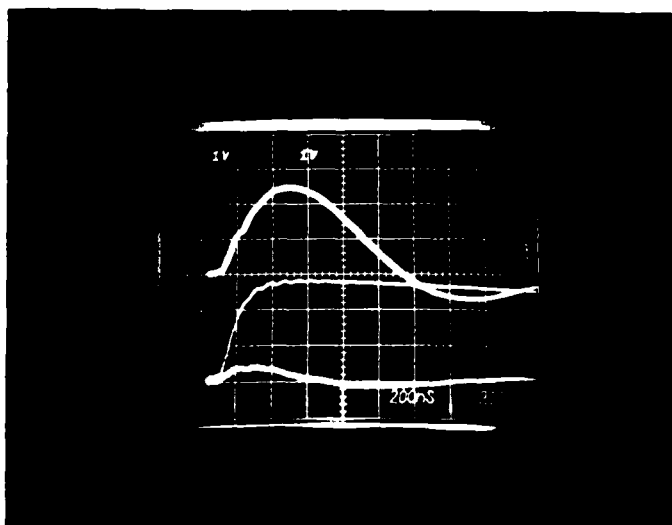


1341

Date	6-14-85
Test Point	66-T25-15-E
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) 1/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) 1/div 2
Configuration	-20 dB
Pulse Level	25,000 V
Data Link	

Comments:

1342

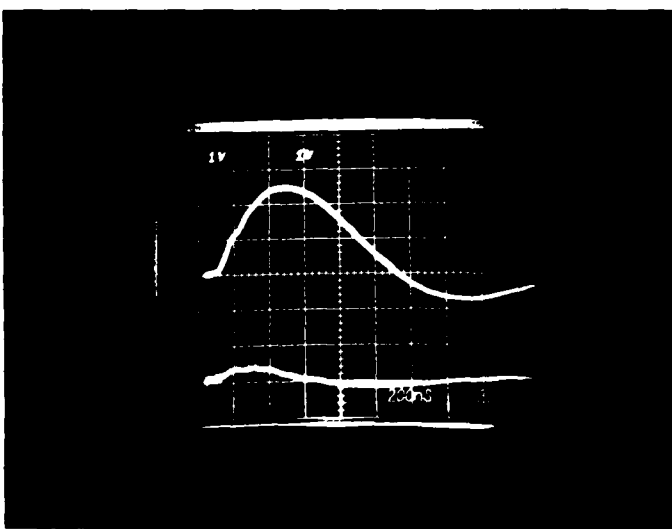


1342

Date	6-14-85
Test Point	66-T25-910-E
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) 1/div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) 1/div 2
Configuration	-20 dB
Pulse Level	25,000 V
Data Link	

Comments:

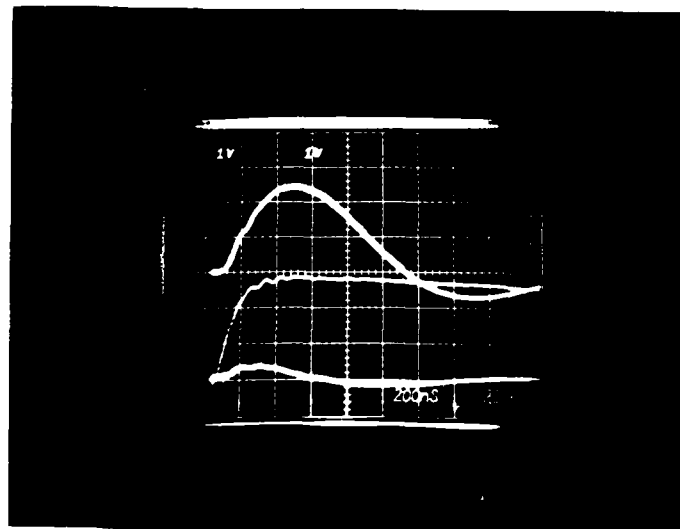
1343



1343

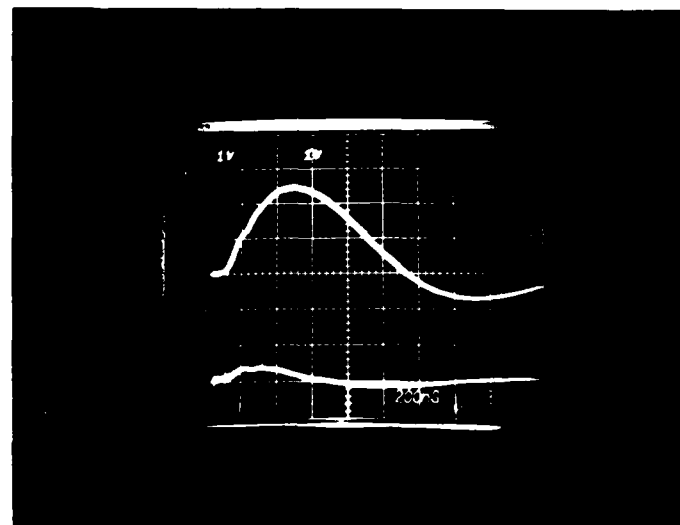
Date 6-14-85
 Test Point 69-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) =/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) =/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

1344



1344

Date 6-14-85
 Test Point 69-T25-910-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) =/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) =/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

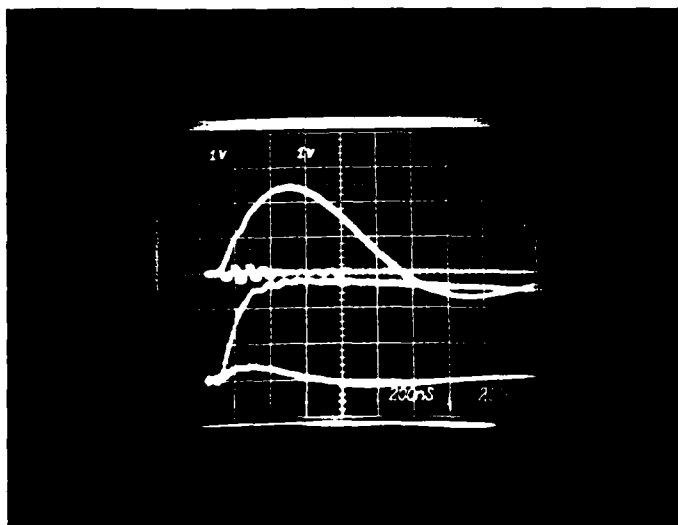


1345

Date 6-14-85
 Test Point 69-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~m~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~m~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

Comments:

346

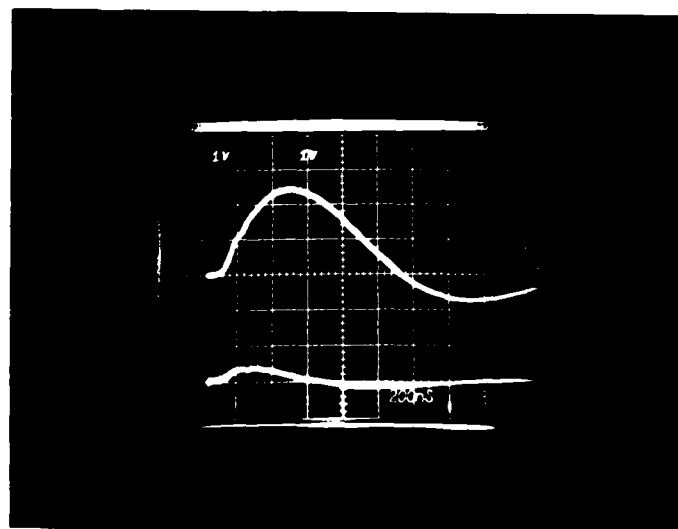


1346

Date 8-14-85
 Test Point 69-T25-9/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~m~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~m~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

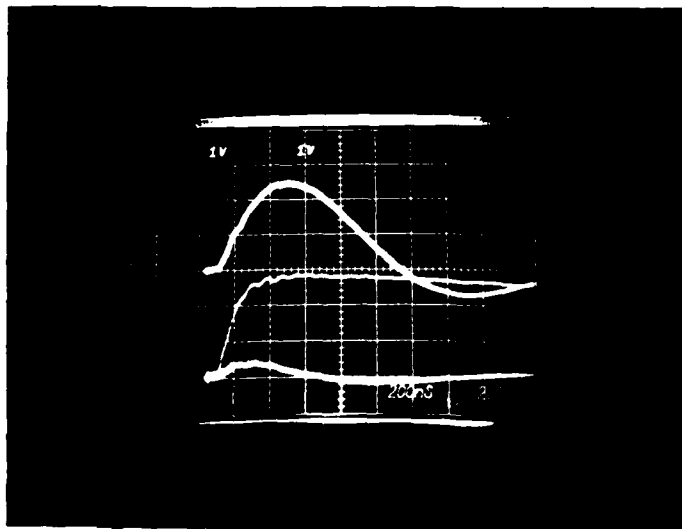
Comments:

1347



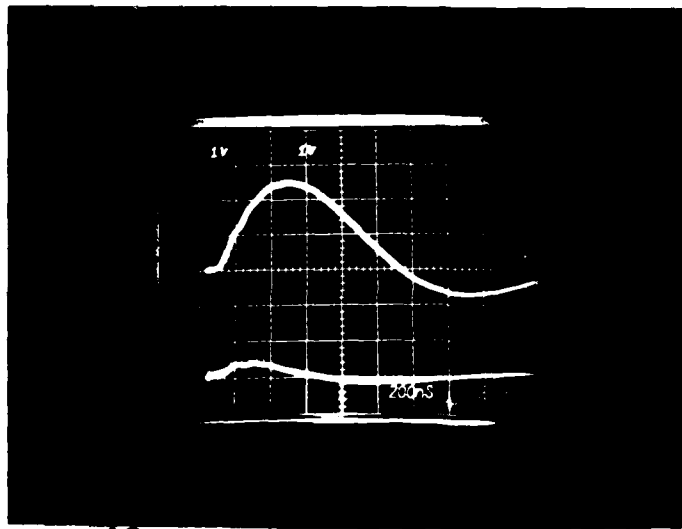
1347

Date 6-14-85
 Test Point 69-T25-15-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1348



1348

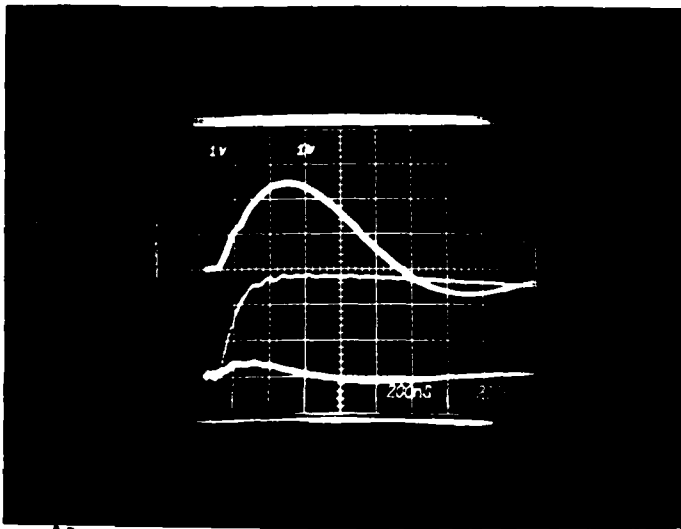
Date 6-14-85
 Test Point 69-T25-910-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1349



1349

Date 6-14-85
 Test Point 69-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

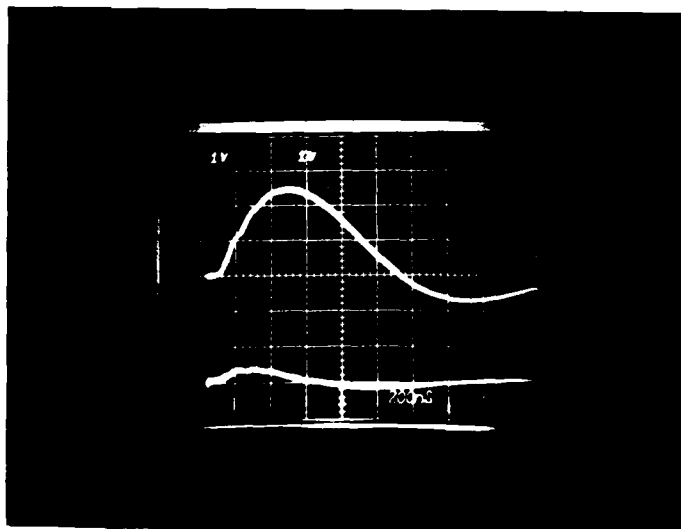
2-17



1350

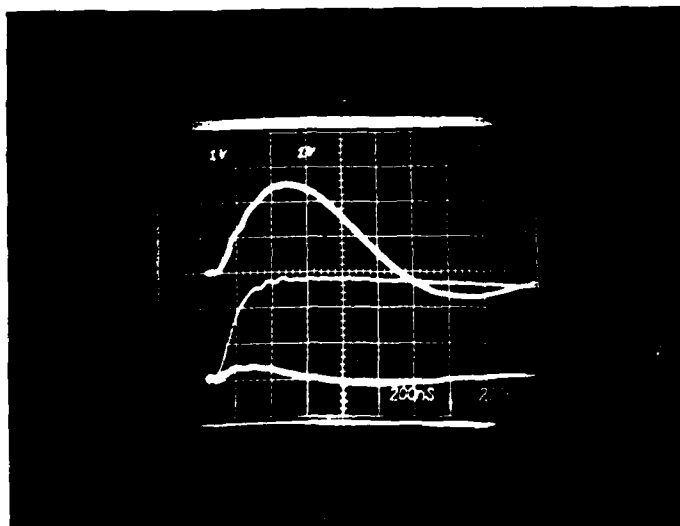
Date 6-14-85
 Test Point 69-T25-9/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

1351

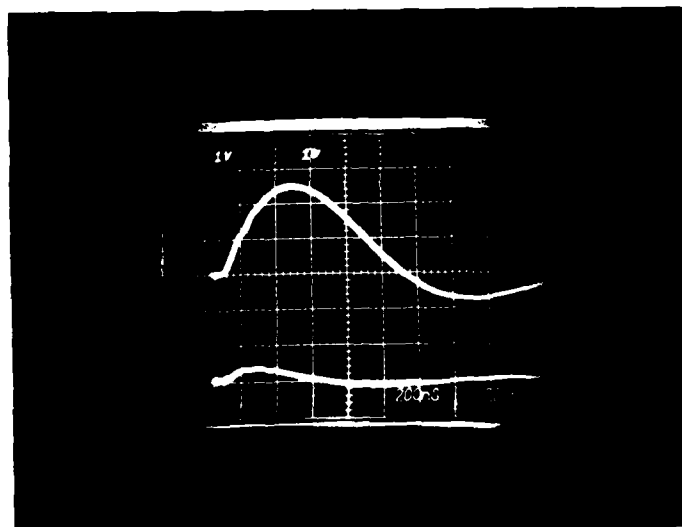


1351

Date 6-14-85
 Test Point 69-T25-15-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ A/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ V/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 252

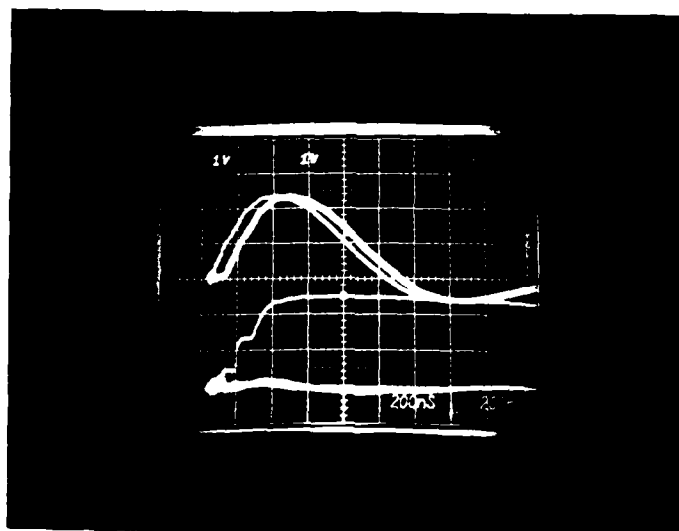


Date 6-14-85
 Test Point 69-T25-110-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ A/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ V/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1303



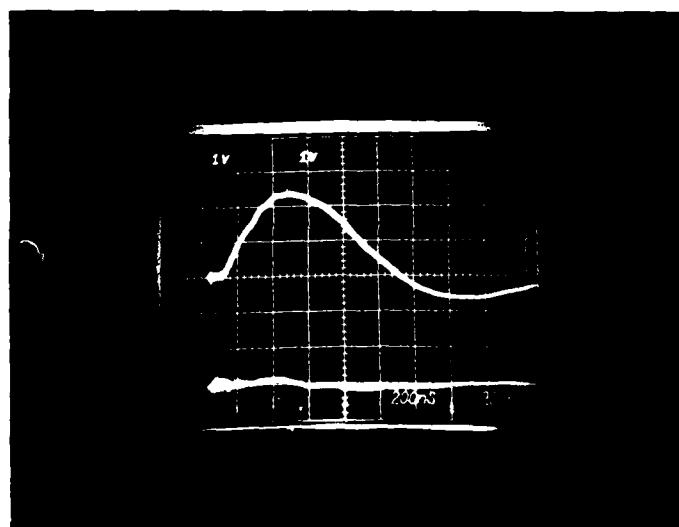
Date 6-17-85
 Test Point 70-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

1378

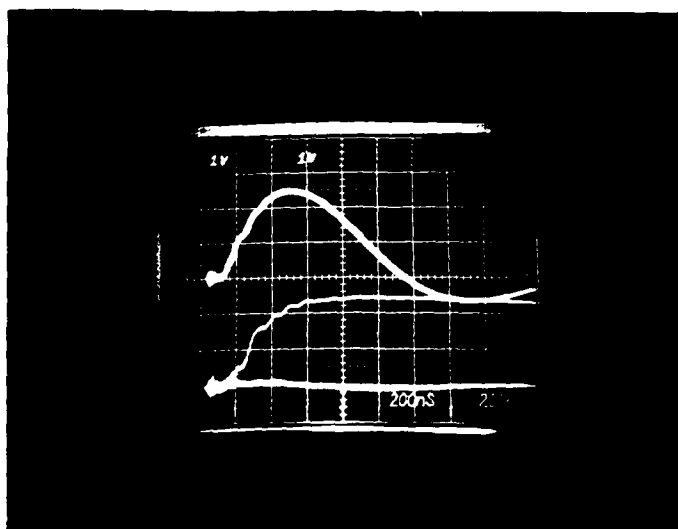


Date 6-17-85
 Test Point 70-T25-9/10-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

1377

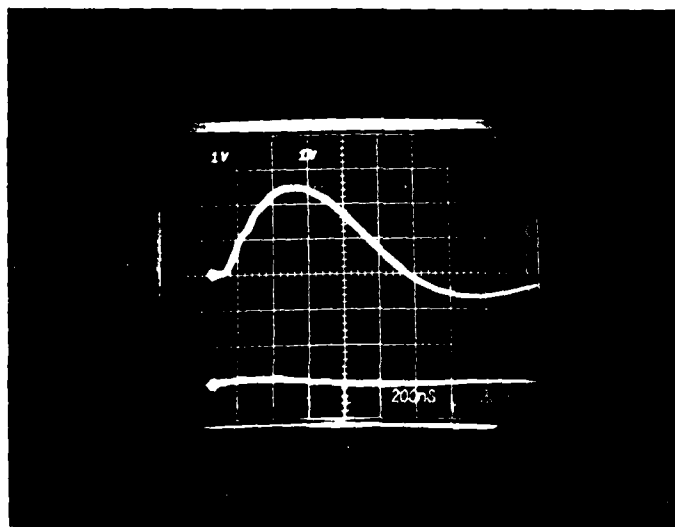


Date 6-17-85
 Test Point 70-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1400

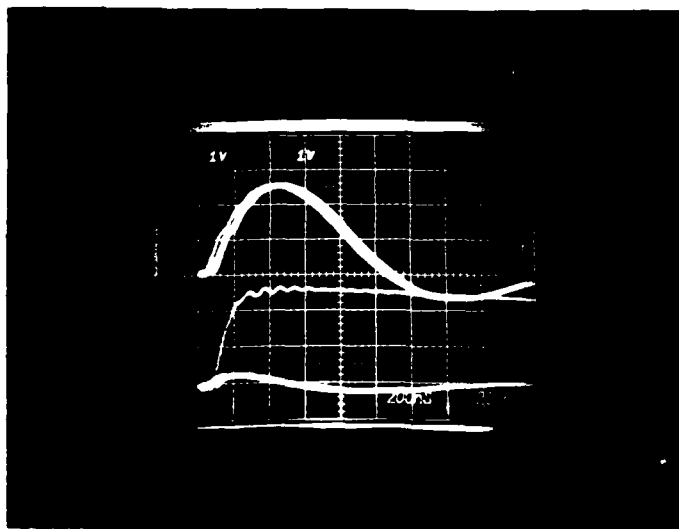
Date 6-17-85
 Test Point 70-T25-9/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1401

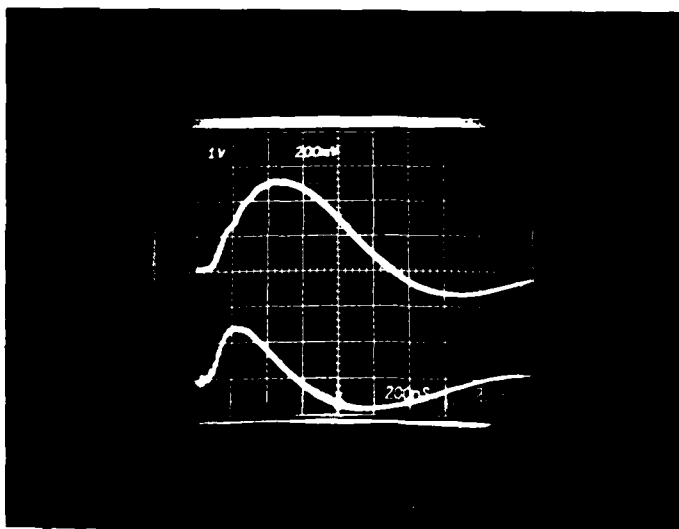
(REPEAT "T" TEST)

Date	6-18-85
Test Point	70-T25-1/5-C
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V(2000 A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	1V(8000V) mV/div 2
Configuration	-20dB
Pulser Level	25000V
Data Link	
Comments:	



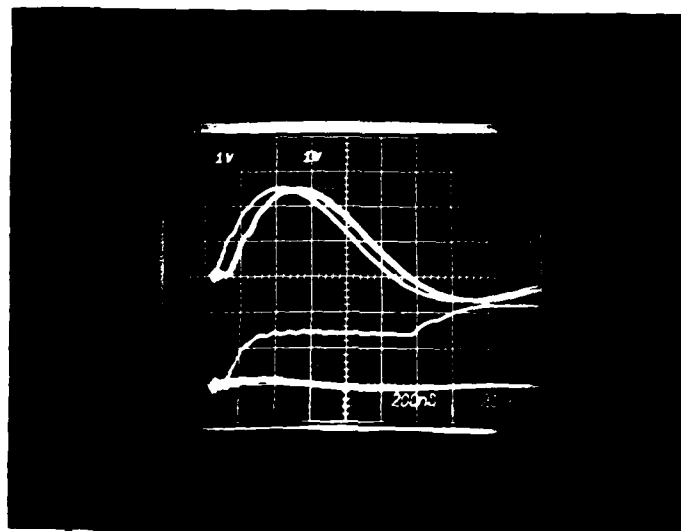
1473

Date	6-18-85
Test Point	70-T25-6/10-C
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V(2000 A/V) mV/div 1
Horizontal	200 ns/div 2
Vertical	.2V(1600V) mV/div 2
Configuration	-20dB
Pulser Level	25,000V
Data Link	
Comments:	



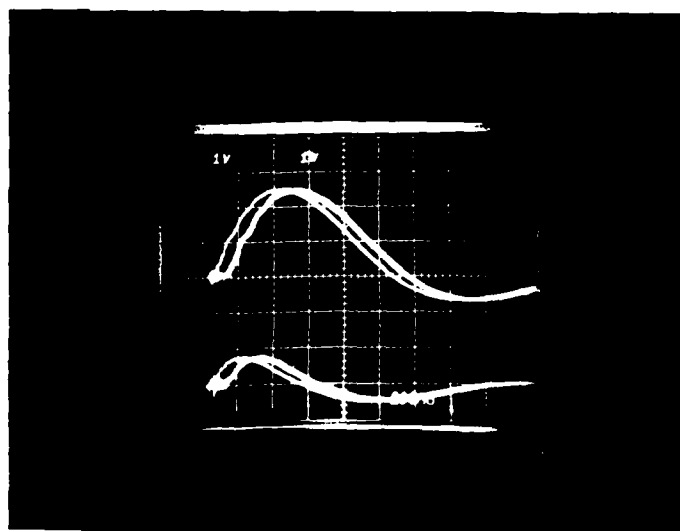
1475

Date 6-17-85
 Test Point 70-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1402

Date 6-17-85
 Test Point 70-T25-910-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (8000V)~~ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

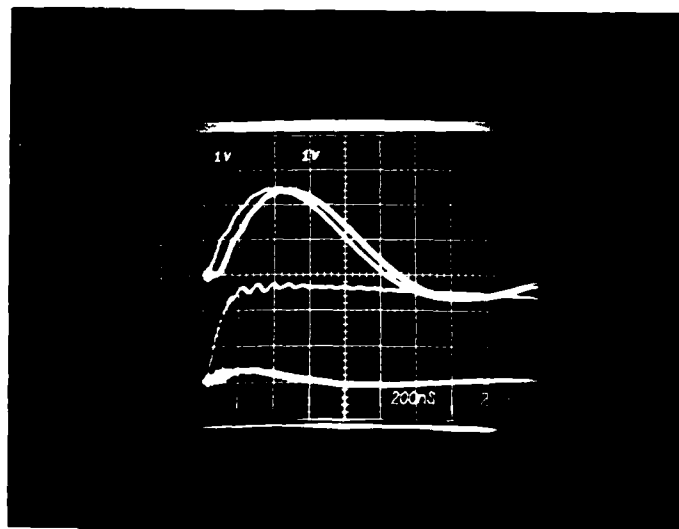


1403

V @ .2V (1600V) /DIV

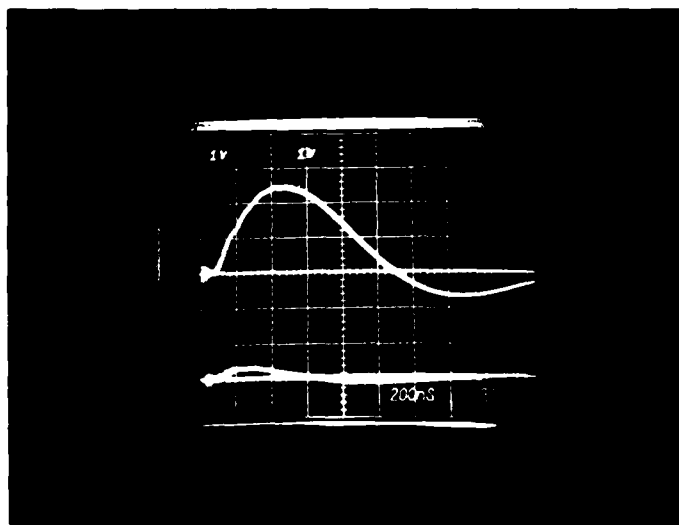
probably invalid

Date 6-17-85
 Test Point 70-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



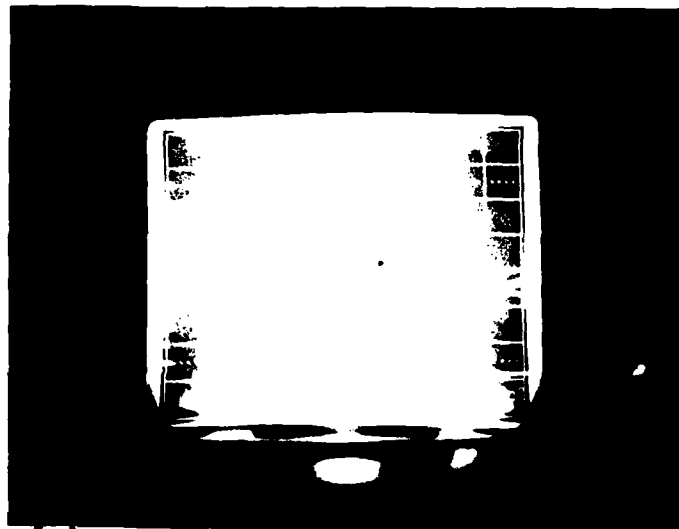
1404

Date 6-17-85
 Test Point 70-T25-9/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



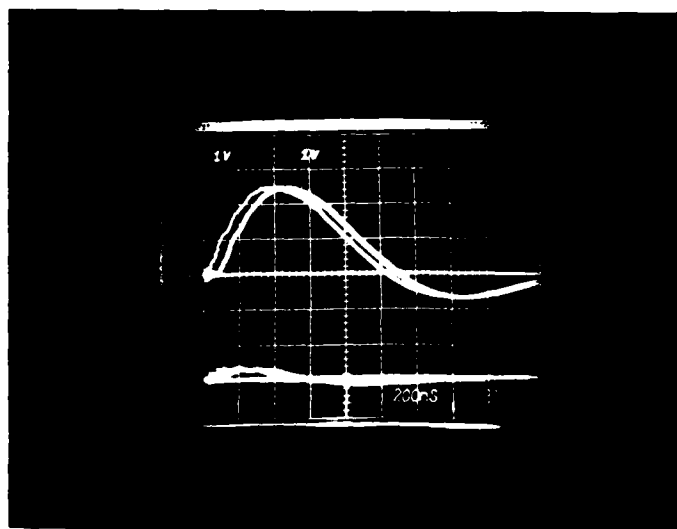
1405

Date 6-17-85
 Test Point 70-T25-1/5-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1406



1406

Date 6-17-85
 Test Point 70-T25-9/10-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1407

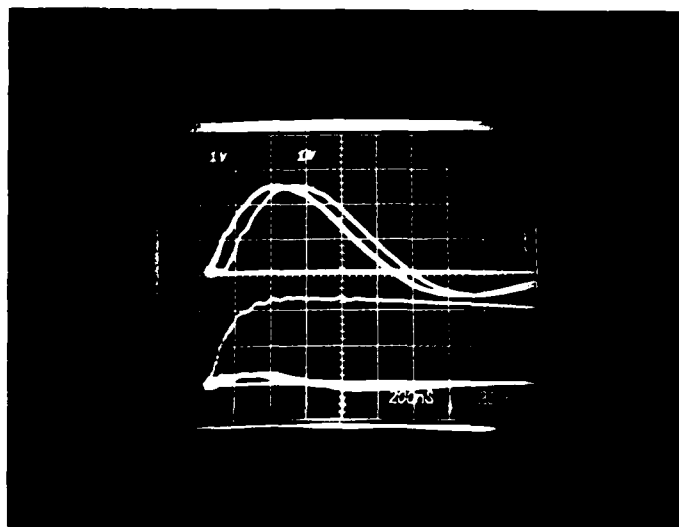


1407

Date 6-17-85
 Test Point 73-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

Comments:

580

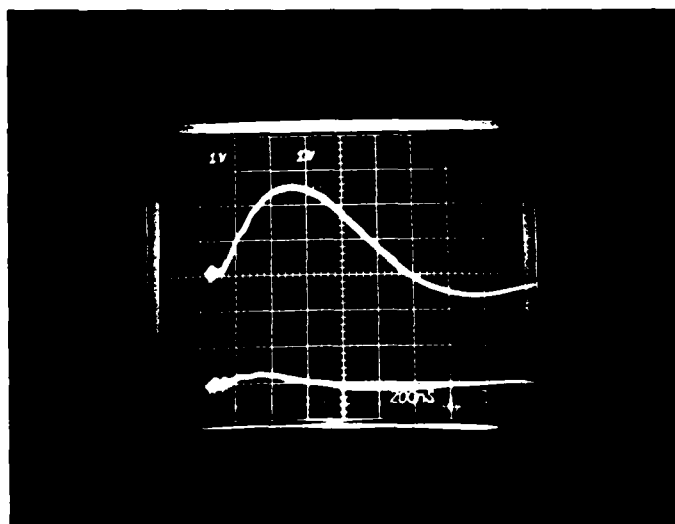


1389

Date 6-17-85
 Test Point 73-T25-6/10-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

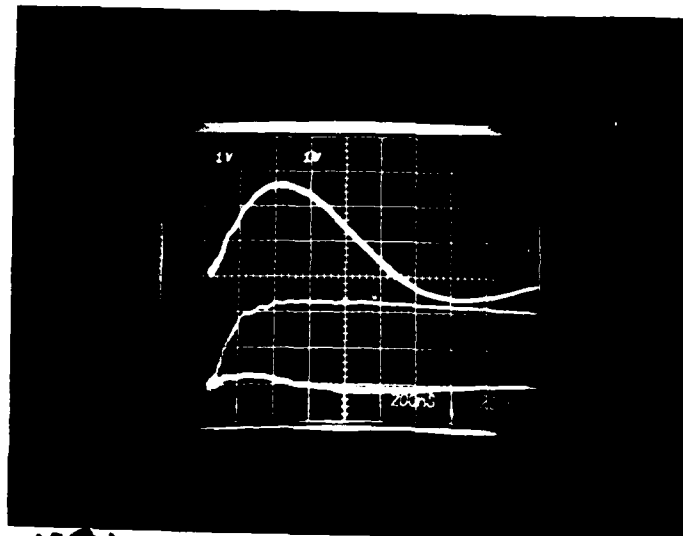
Comments:

1500



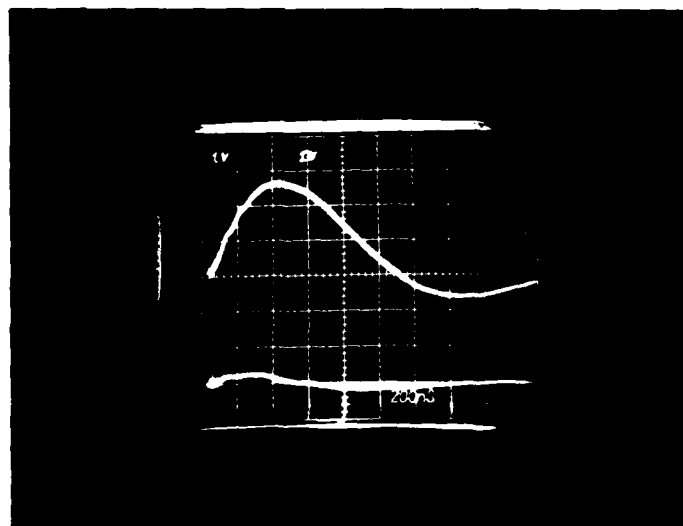
1390

Date 6-17-85
 Test Point 73-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ A/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ V/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



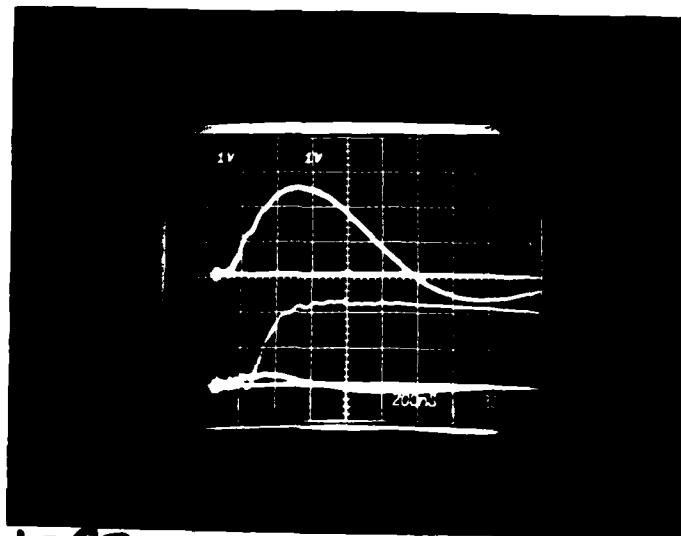
1390

Date 6-17-85
 Test Point 73-T25-9/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) μ A/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) μ V/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



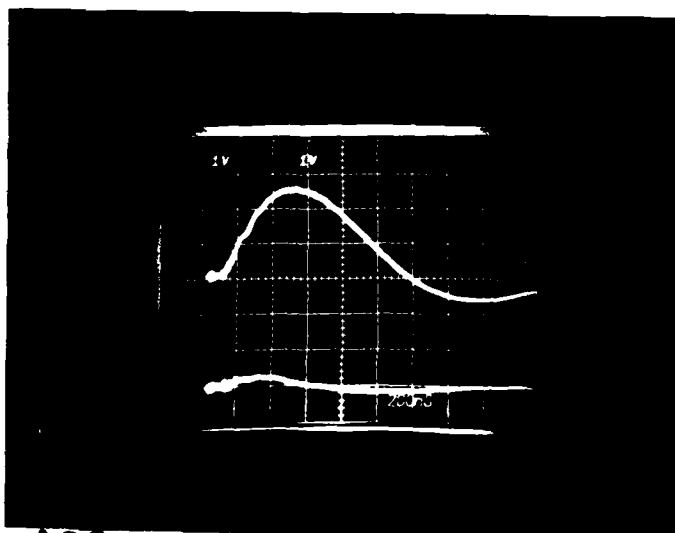
1391

Date 6-17-85
 Test Point 73-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



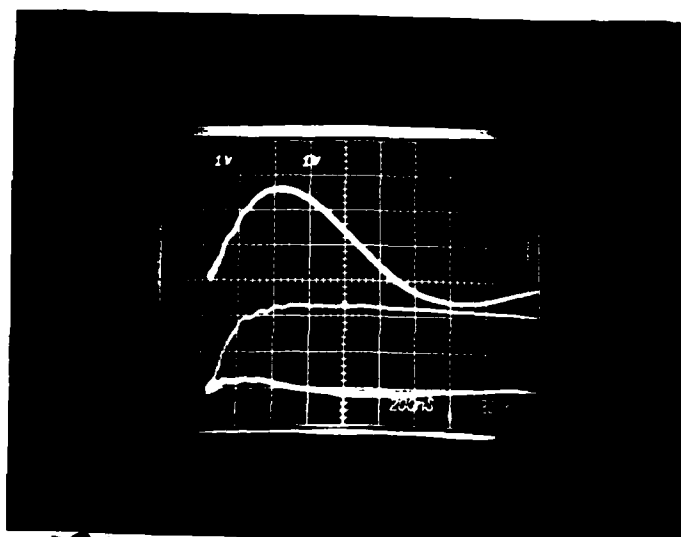
1392

Date 6-17-85
 Test Point 73-T25-1/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



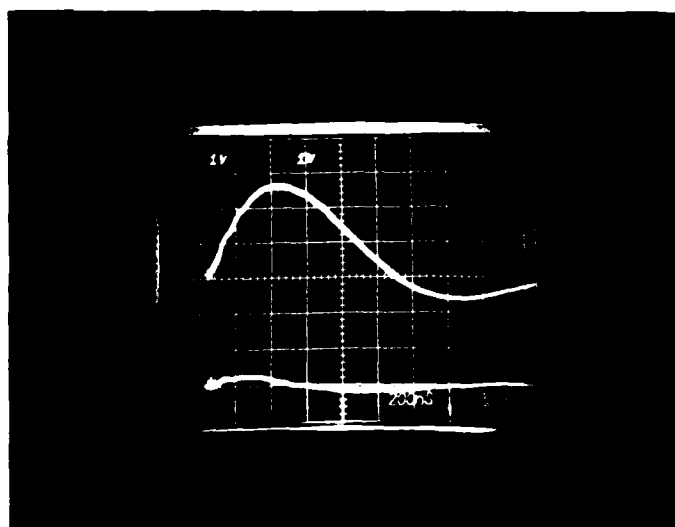
1393

Date 6-17-85
 Test Point 73-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



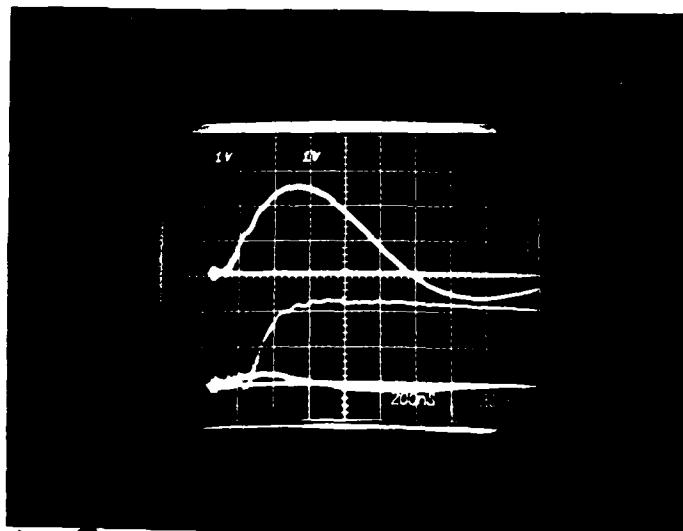
1390

Date 6-17-85
 Test Point 73-T25-9/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



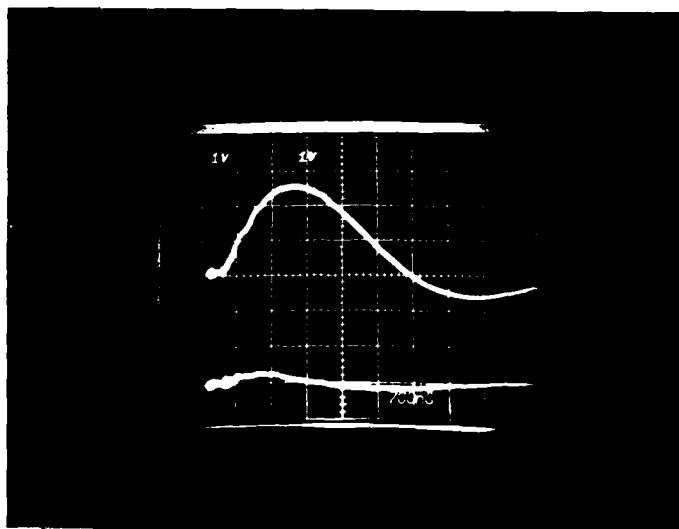
1391

Date 6-17-85
 Test Point 73-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



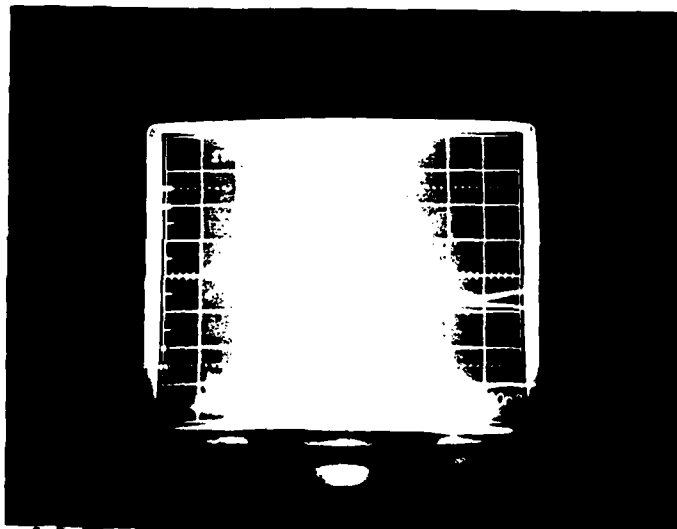
1392

Date 6-17-85
 Test Point 73-T25-9/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



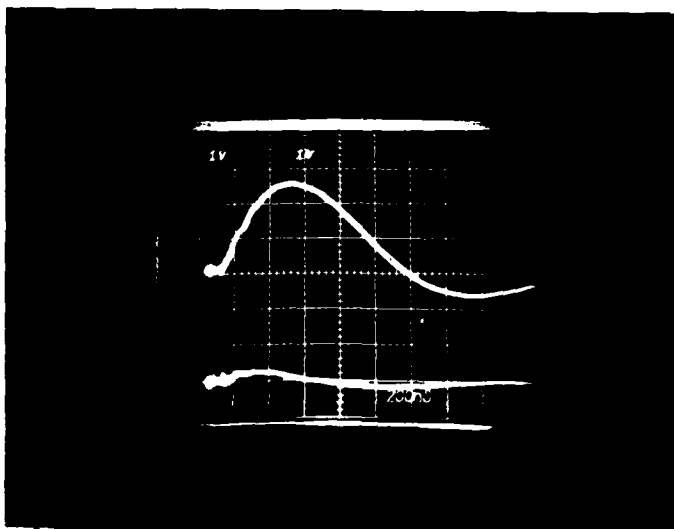
1393

Date 6-17-85
 Test Point 73-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1394



1394

Date 6-17-85
 Test Point 73-T25-9/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1395

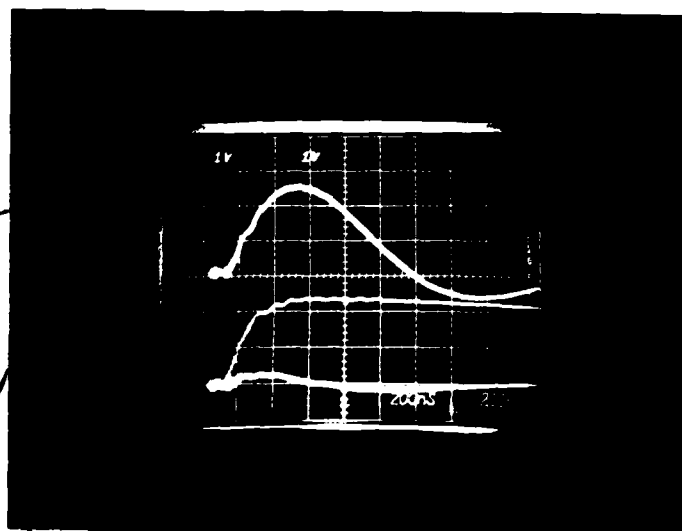


1395

Date 6-17-85
 Test Point 73-T25-1/5-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

Comments:

1396

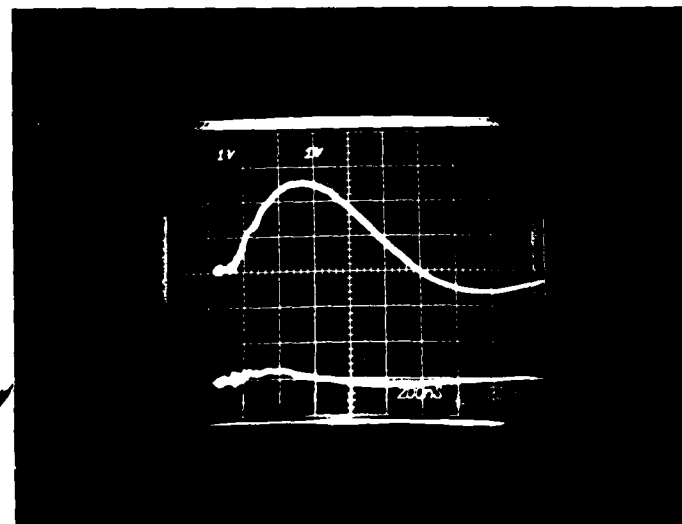


1396

Date 6-17-85
 Test Point 73-T25-9/10-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

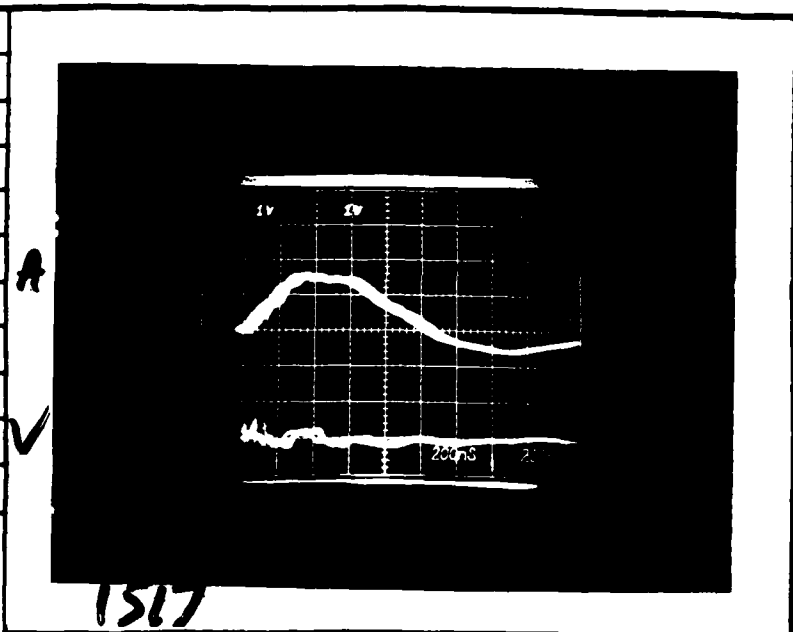
Comments:

1397

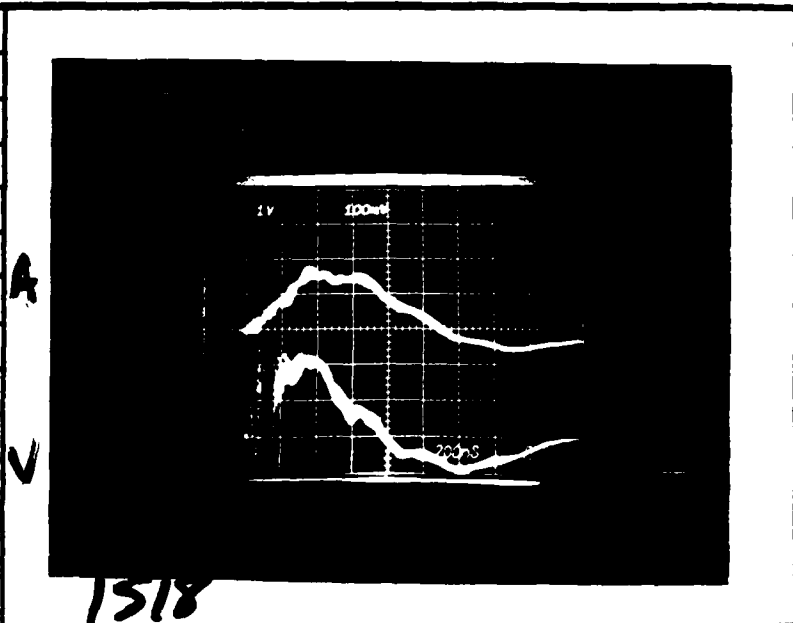


1397

Date 6-19-85
 Test Point 75-T25-1/5- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1517

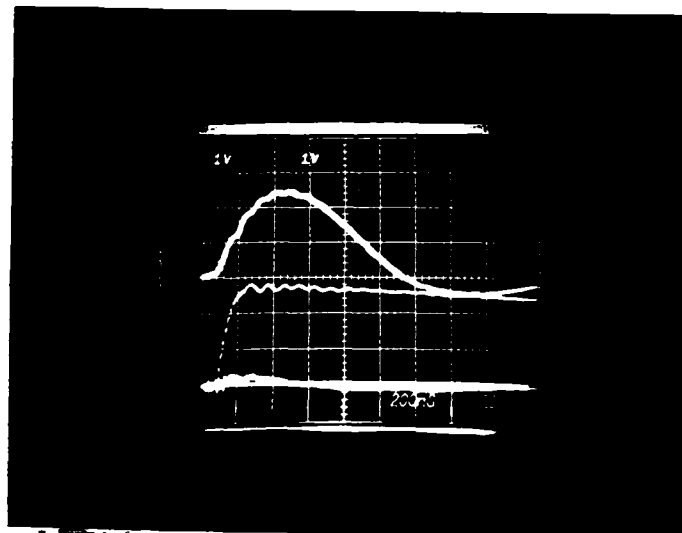


Date 6-19-85
 Test Point 75-T25-6/10- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 2V(1600V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1518



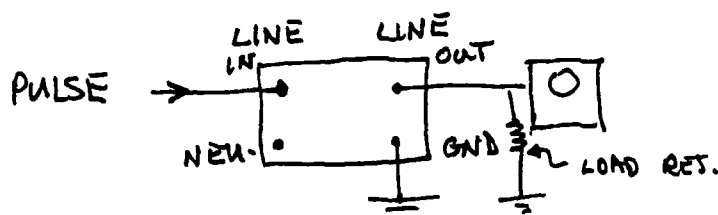
DATA @ 1V(8000V)

Date 6-19-85
 Test Point 76-T25-1/5-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000 A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1500

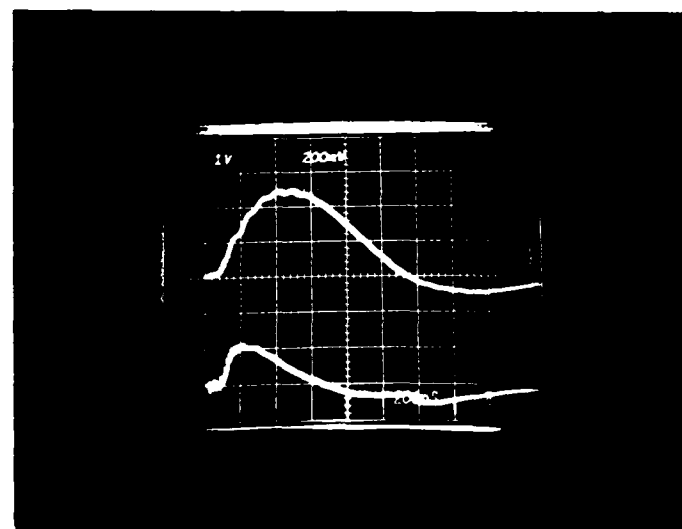


1500

"HOT"



Date 6-19-85
 Test Point 76-T25-6/10 Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000 A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V (1600V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000V
 Data Link
 Comments:

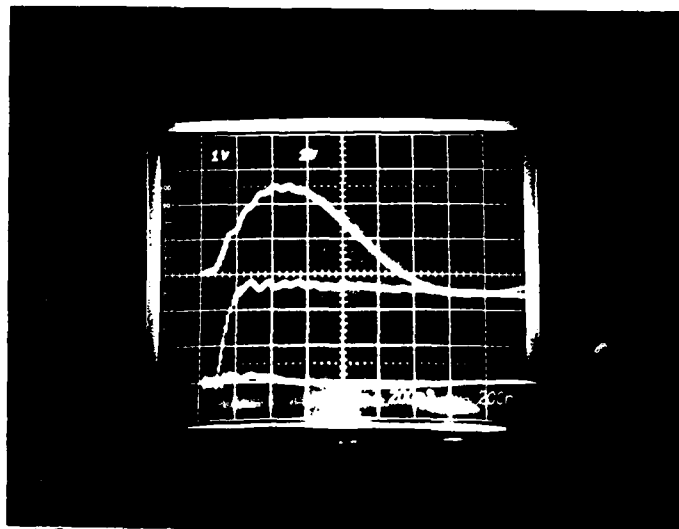
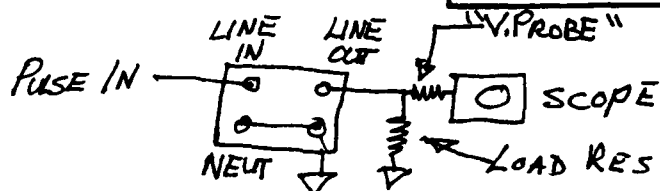


1501

"HOT"

Date 6-19-85
 Test Point 76-T25-1/5- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~mA~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~mA~~/div 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link
 Comments:

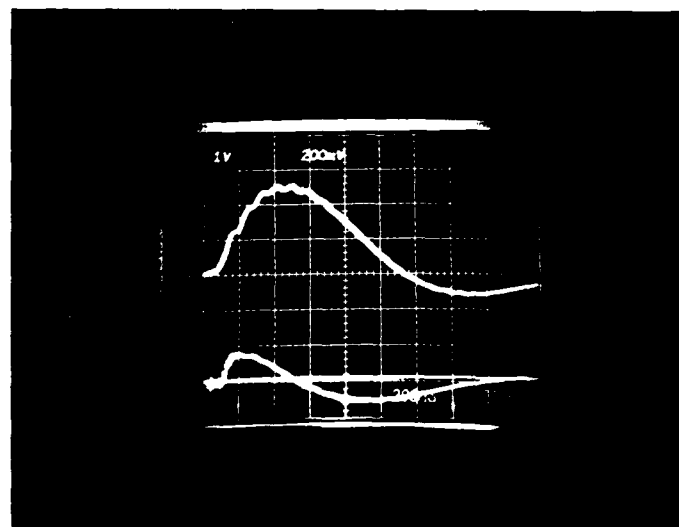
"NEUTRAL"



1502

Date 6-19-85
 Test Point 76-T25-6/10- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~mA~~/div 1
 Horizontal 200 ns/div 2
 Vertical .2V (1600V) ~~mA~~/div 2
 Configuration -20dB
 Pulsar Level 25,000V
 Data Link
 Comments:

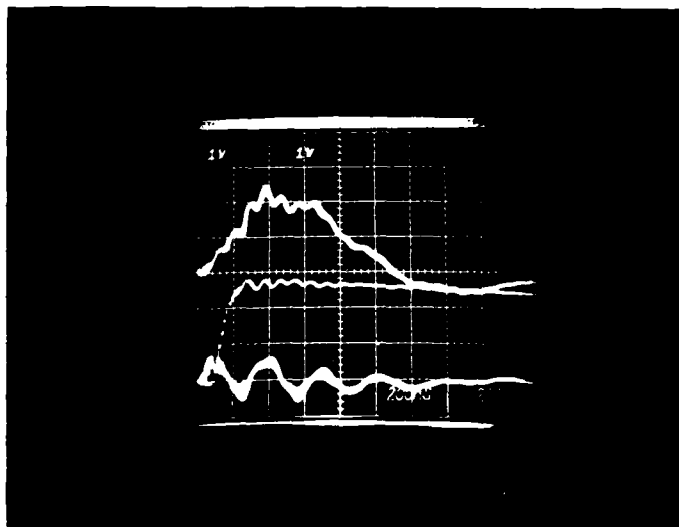
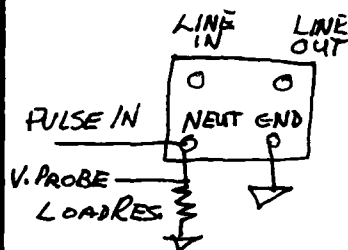
"NEUTRAL"



1503

Date 6-19-85
 Test Point 76-T25-1/5-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

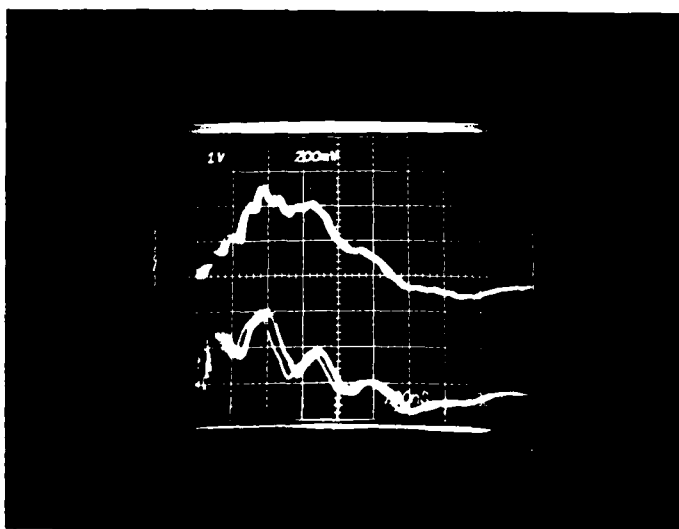
1504



1504

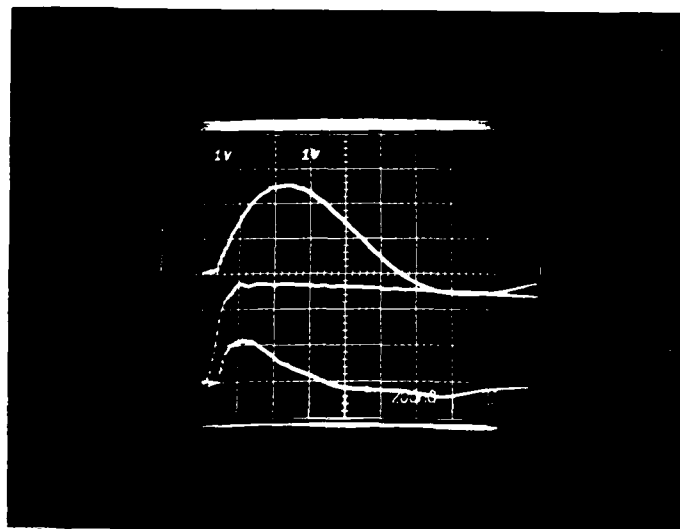
Date 6-19-85
 Test Point 76-T25-6/10-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

1505

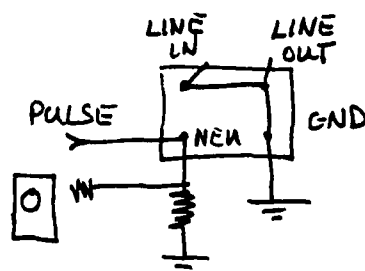


1505

Date 6-19-85
 Test Point 76-T25-1/5-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) ~~1V~~/div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V(2000A/V)~~ ns/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1506

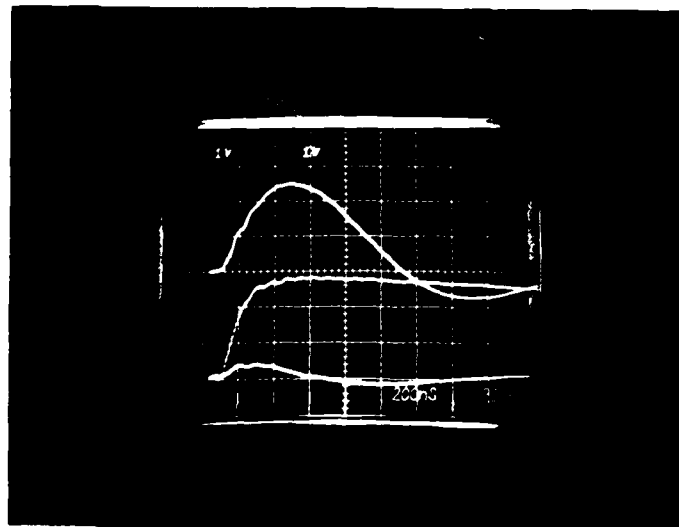


DATA: VERTICAL @ .2V (1600V) PER DIV
 REF: VERTICAL @ 1V (8000V) PER DIV

Date 6-19-85
 Test Point 76-T25-6/10-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) ~~1V~~/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) ~~1V~~/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

NO PHOTO

Date	6-14-85
Test Point	79-T25-1/2-4
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) /div 2
Configuration	-20 dB
Pulser Level	25,000 V
Data Link	



Comments:

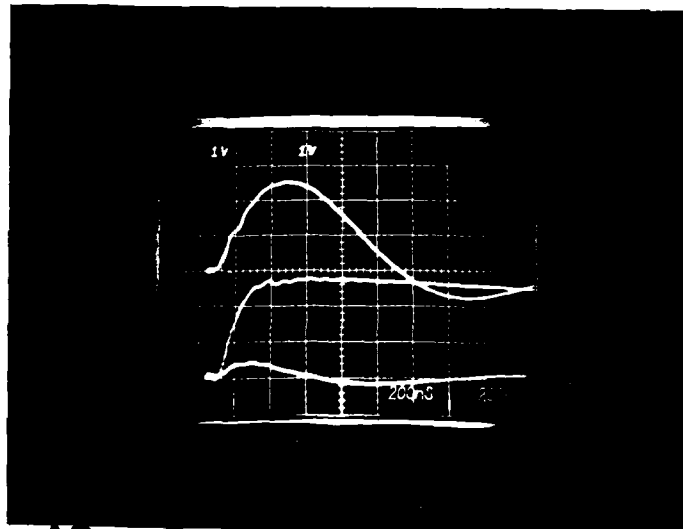
#2 PULSE, 25KV

Date	6-14-85
Test Point	79-T25-9/10-A
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) /div 2
Configuration	-20 dB
Pulser Level	25,000 V
Data Link	

NO PHOTO

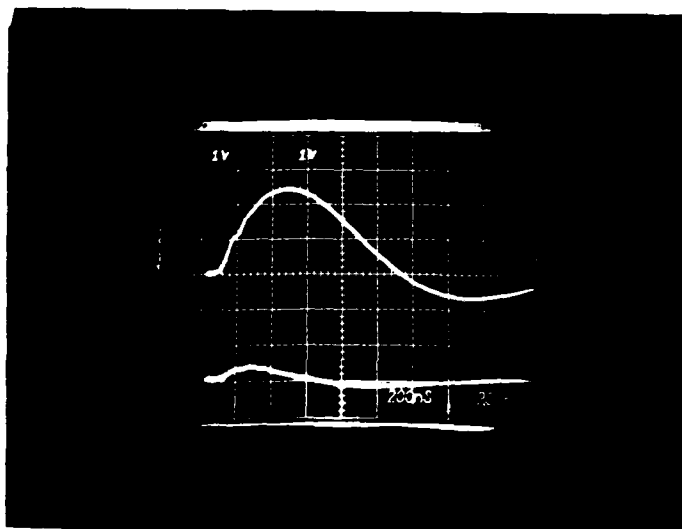
Comments:

Date 6-17-85
 Test Point 79-T25-1-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1355

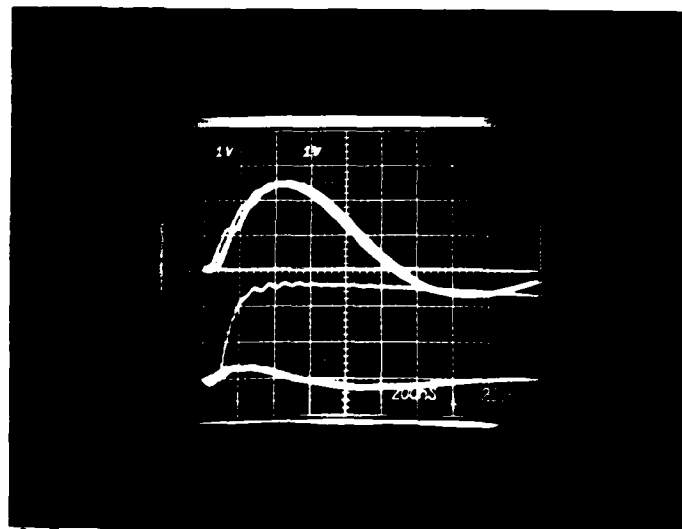
Date 6-17-85
 Test Point 79-T25-7/11-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 1/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1356

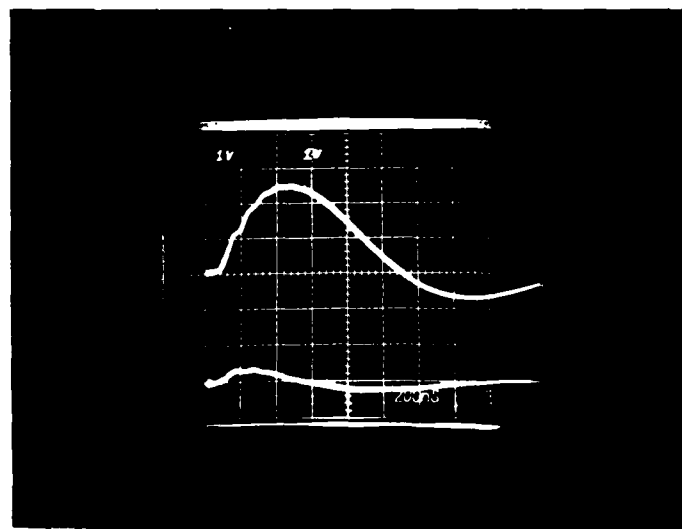
1356

Date 6-18-85
 Test Point 79-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulser Level 25,000 V
 Data Link
 Comments:



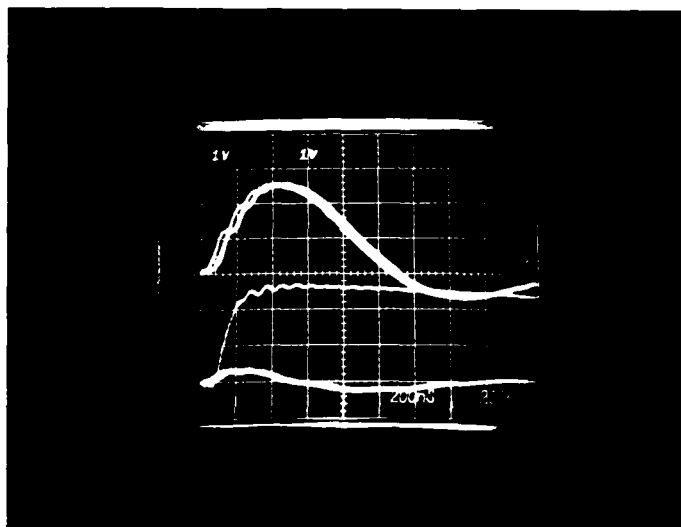
1439

Date 6-18-85
 Test Point 79-T25-9/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulser Level 25,000 V
 Data Link
 Comments:



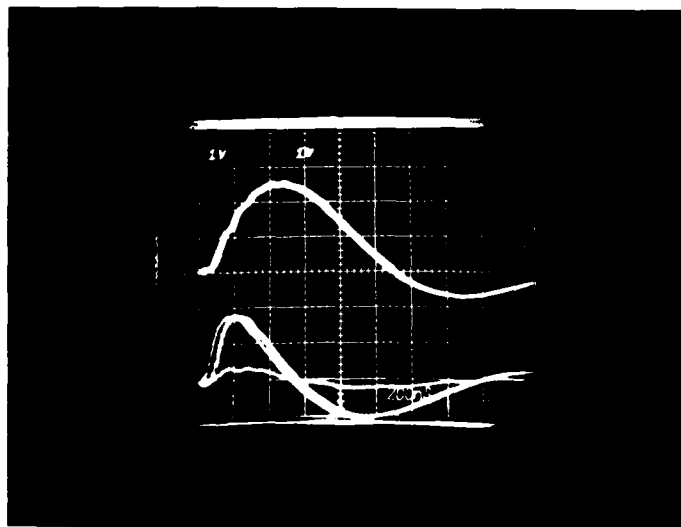
1440

Date 6-18-85
 Test Point 79-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1441

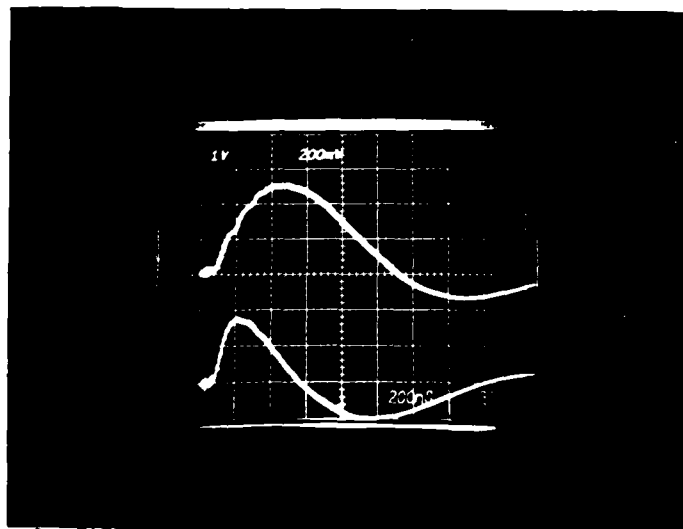
Date 6-18-85
 Test Point 79-T25-6/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1442

VERTICAL 1.2V (1600V) div

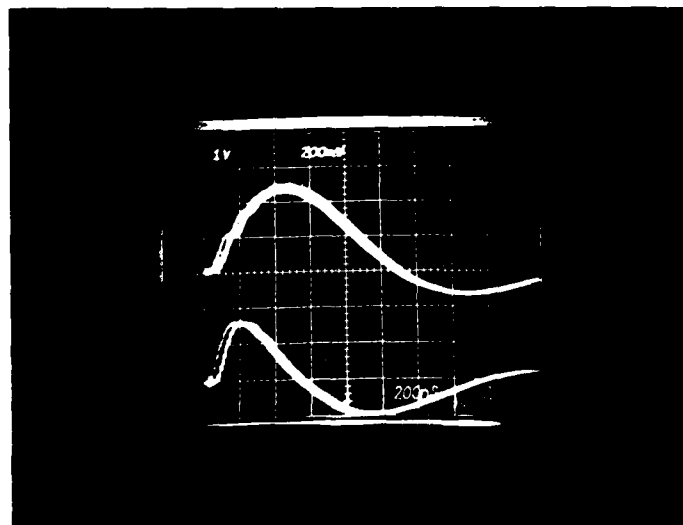
Date 6-18-85
 Test Point 79-T25-1/5-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (2000A/V)~~ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1443

VERTICAL @ .2V (1600V) per div. 2

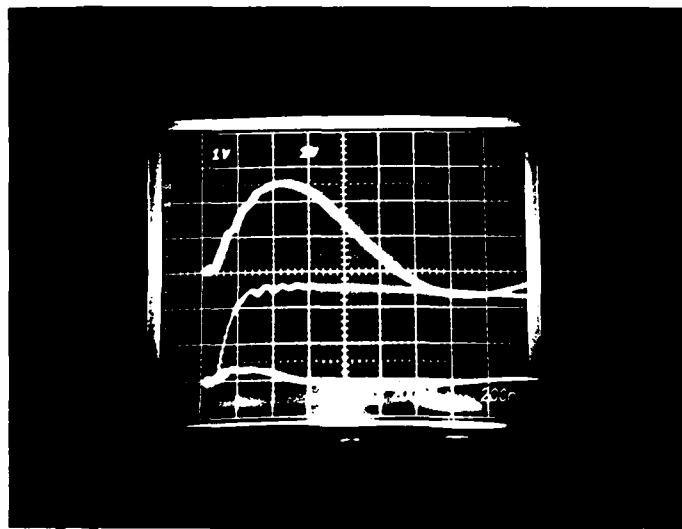
Date 6-18-85
 Test Point 79-T25-910-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (2000A/V)~~ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1444

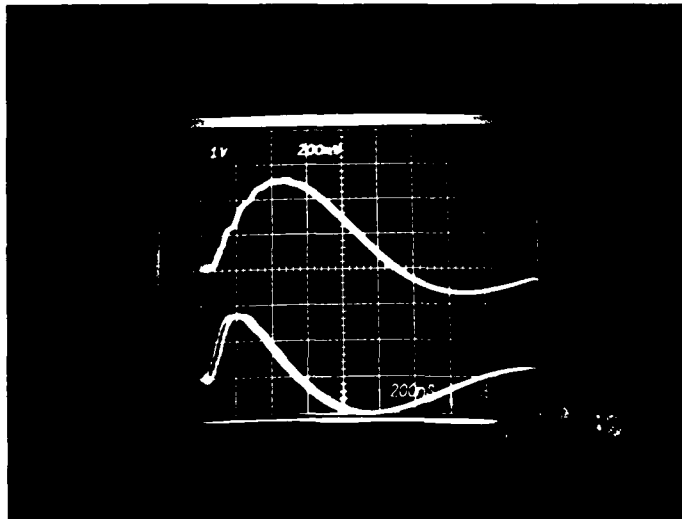
VERTICAL @ .2V (1600V) per div. 2

Date 6-18-85
 Test Point 82-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~mm~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~mm~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1445



1445

Date 6-18-85
 Test Point 82-T25-9/10-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~mm~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~mm~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1446



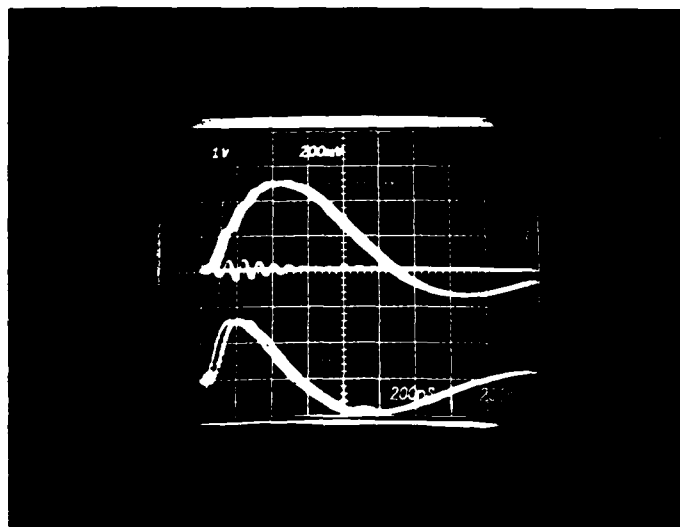
1446

VERTICAL .2V (1600V) div -

Date 6-18-85
 Test Point 82-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) = /div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (2000A/V)~~ = /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

1447

1447

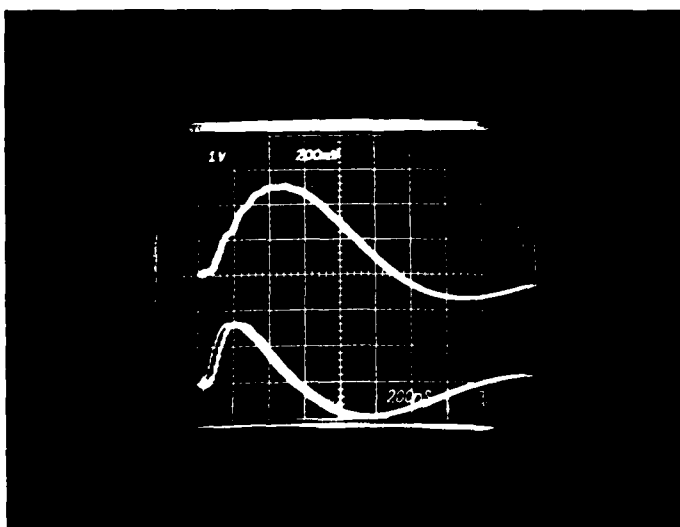


VERTICAL @ 12V (1600V) per div.

Date 6-18-85
 Test Point 82-T25-9/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) = /div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (2000A/V)~~ = /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

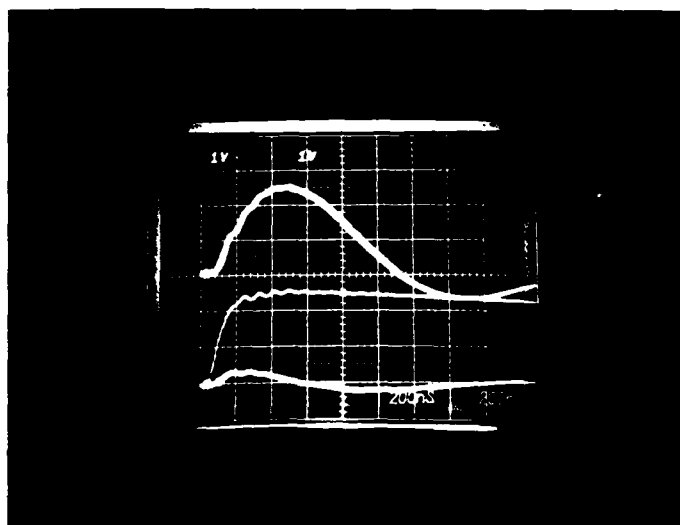
1448

1448



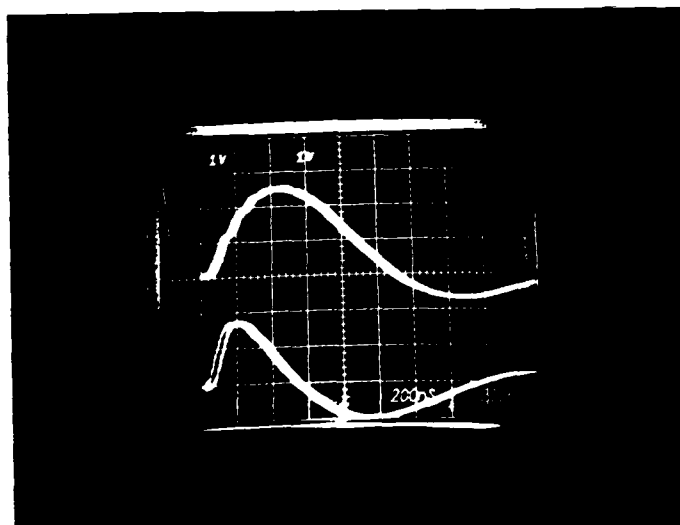
Vertical 12V (1600V) per div.

Date 6-18-85
 Test Point 82-T25-1/5-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1449

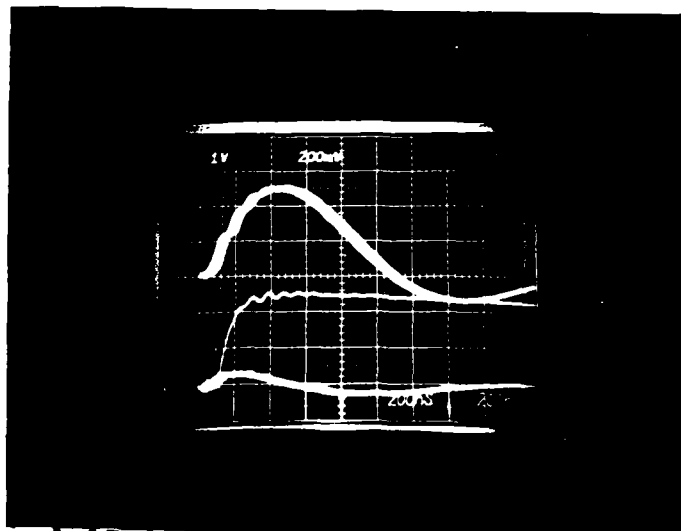
Date 6-18-85
 Test Point 82-T25-9/10-C
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (8000V)~~ ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1450

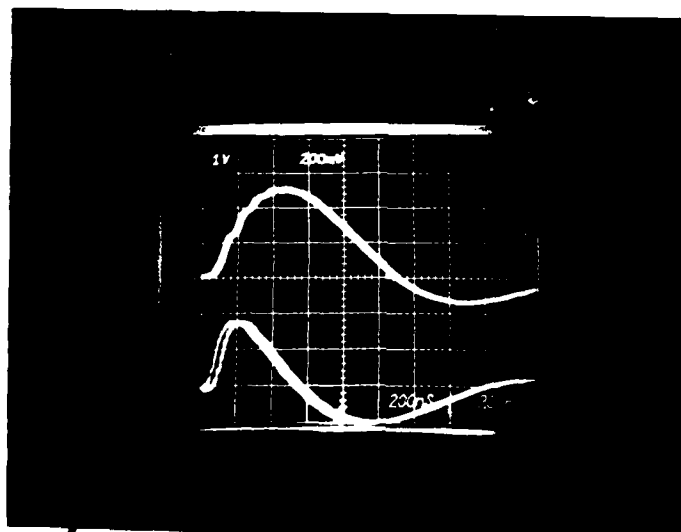
VERTICAL @ .2V (1600V) per div.

Date 6-18-85
 Test Point 82-T25-1/5-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1451

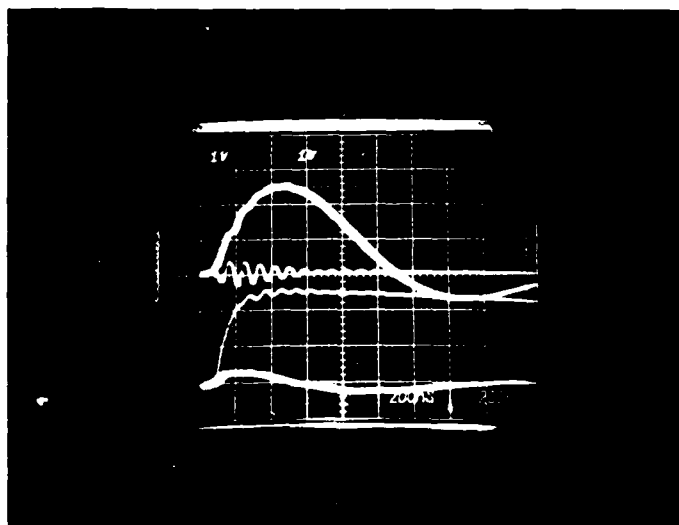
Date 6-18-85
 Test Point 82-T25-9/10-D
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (2000A/V)~~ ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1452

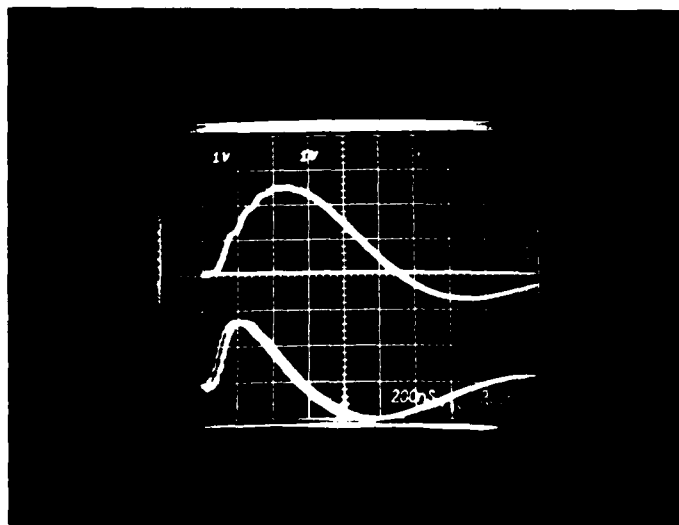
VERTICAL @ .2V (1600V) division.

Date 6-18-85
 Test Point 82-T25-1/5-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1453

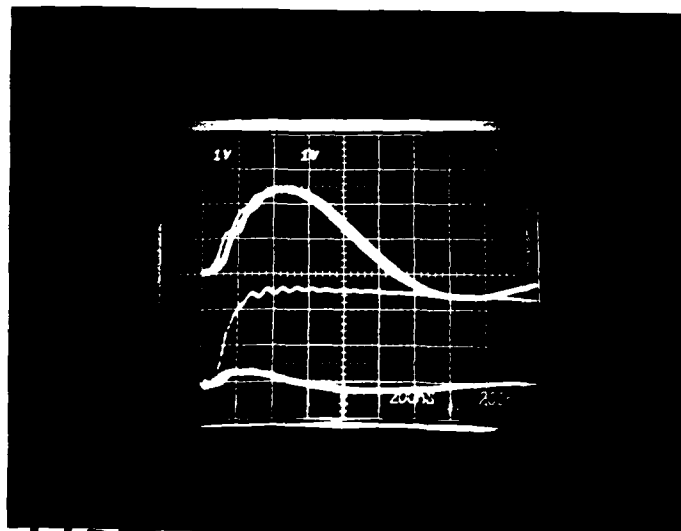
Date 6-18-85
 Test Point 82-T25-9/10-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (2000V)~~ ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1454

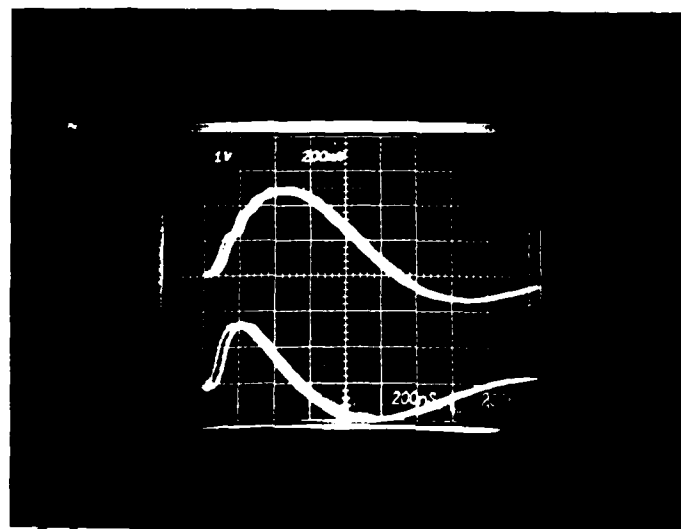
VERTICAL @ .2V (1600V) per div.

Date 6-18-85
 Test Point 85-T25-1/5-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1455

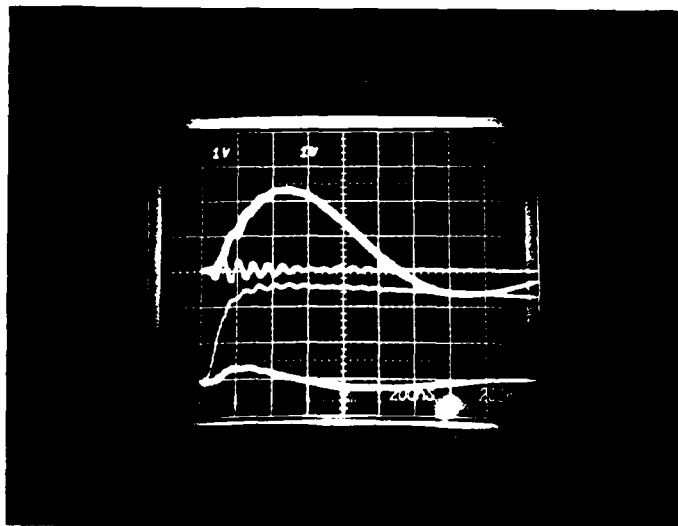
Date 6-18-85
 Test Point 85-T25-910-A
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (8000V)~~ /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1456

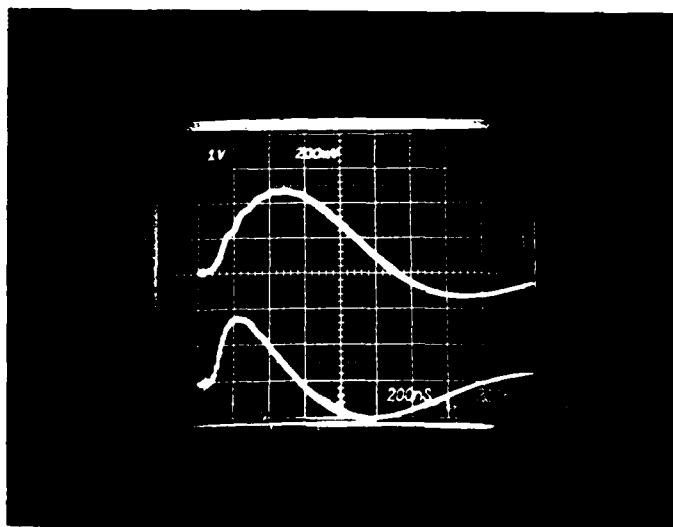
VERTICAL @ .2V (1600V) per div -

Date 6-18-85
 Test Point 85-T25-1/5-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1457

Date 6-18-85
 Test Point 85-T25-9/10-B
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) /div 1
 Horizontal 200 ns/div 2
 Vertical 1V (2000A/V) /div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1458

VERTICAL @ .2V (1600V) per div.

AO-A164 432

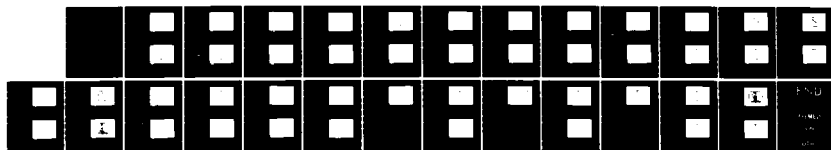
ELECTROMAGNETIC PULSE/TRANSIENT THREAT TESTING OF
PROTECTION DEVICES FOR (U) ELECTROSPACE SYSTEMS INC
ARLINGTON VA D BODSON ET AL 31 OCT 85

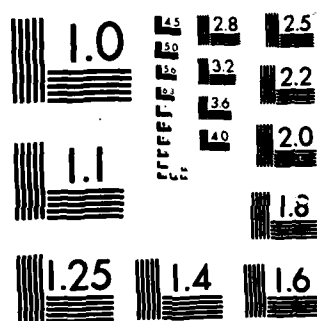
3/3

UNCLASSIFIED

NCS-TIB-85-10-VOL-3-SEC-2 DCA100-85-C-0010 F/G 20/14

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Date 6-18-85

Test Point 85-T25-1/5-C

Amplification 0 dB

Attenuation 40 dB

Horizontal 200 ns/div 1

Vertical 1V (2000A/V) /div 1

Horizontal 200 ns/div 2

Vertical 1V (8000V) /div 2

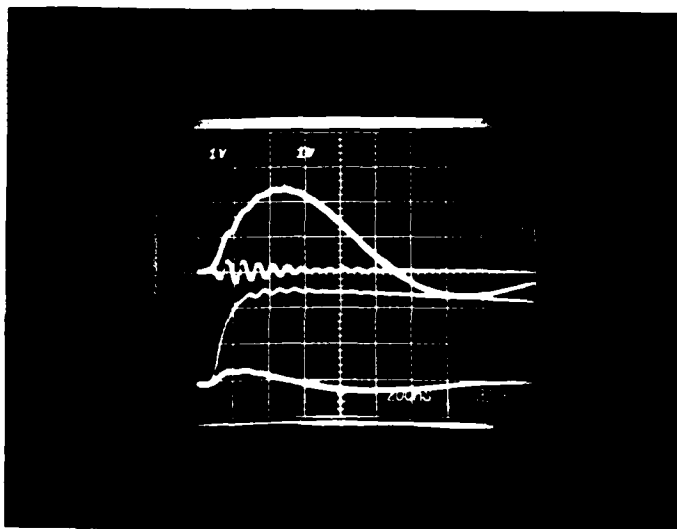
Configuration -20 dB

Pulse Level 25,000 V

Data Link

Comments:

1459



Date 6-18-85

Test Point 85-T25-9/10-C

Amplification 0 dB

Attenuation 40 dB

Horizontal 200 ns/div 1

Vertical 1V (2000A/V) /div 1

Horizontal 200 ns/div 2

Vertical 1V (8000V) /div 2

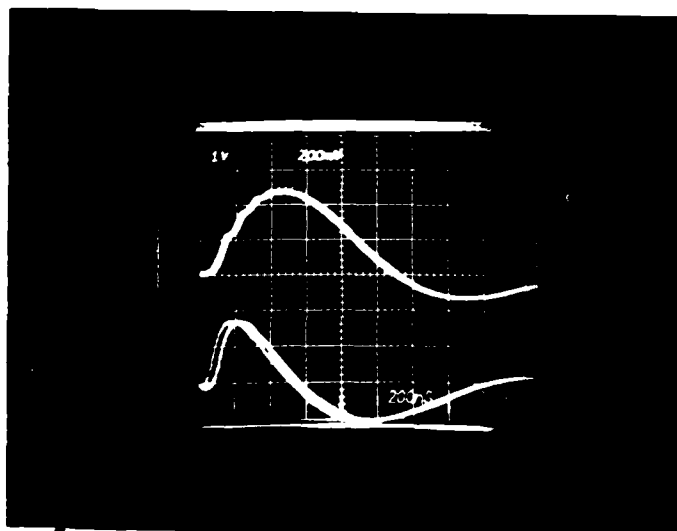
Configuration -20 dB

Pulse Level 25,000 V

Data Link

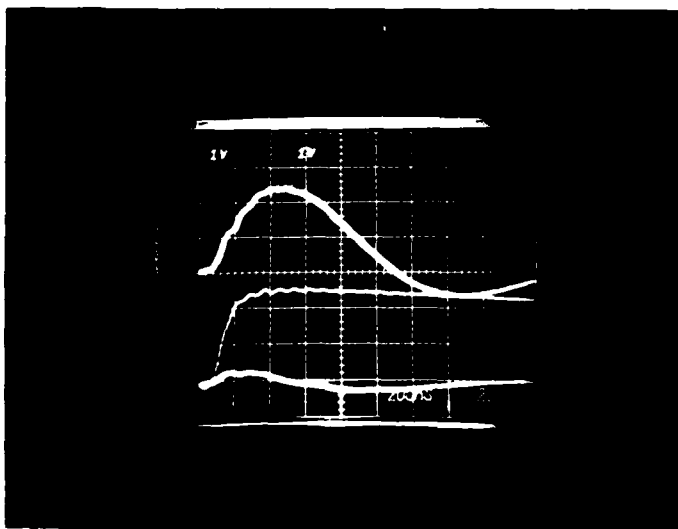
Comments:

1460



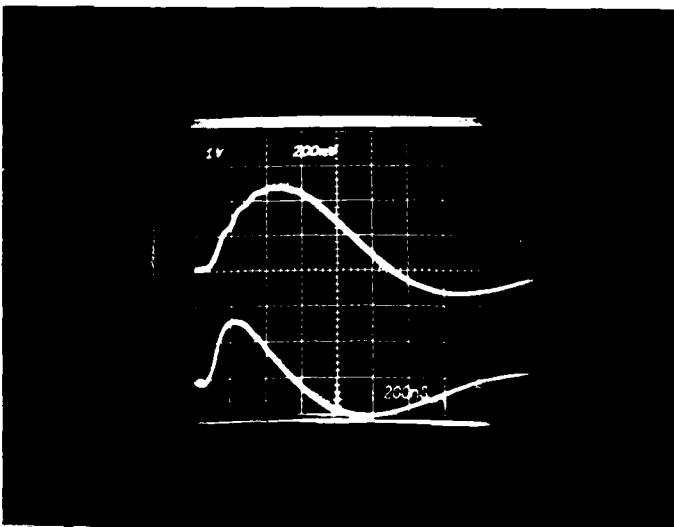
VERTICAL @ 12V (1600V) per div.

Date	6-18-85
Test Point	85-T25-1/5-D
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) 1 /div 1
Horizontal	200 ns/div 2
Vertical	1V (8000V) 1 /div 2
Configuration	-20 dB
Pulser Level	25,000 V
Data Link	
Comments:	1461



1461

Date	6-18-85
Test Point	85-T25-9/10-D
Amplification	0 dB
Attenuation	40 dB
Horizontal	200 ns/div 1
Vertical	1V (2000A/V) 1 /div 1
Horizontal	200 ns/div 2
Vertical	1V (2000A/V) 1 /div 2
Configuration	-20 dB
Pulser Level	25,000 V
Data Link	
Comments:	1462

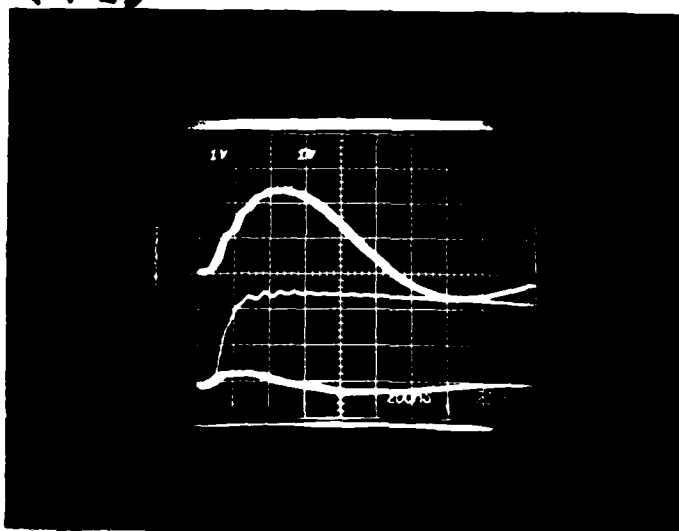


1462

VERTICAL @ .2V (1600V) per div -

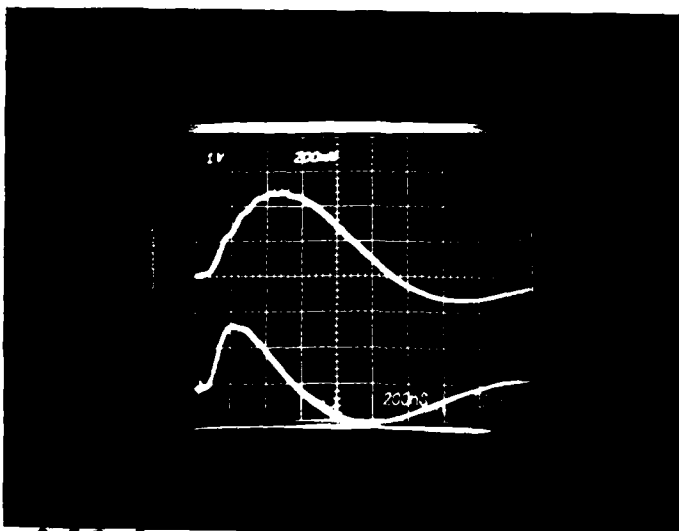
Date 6-18-85
 Test Point 85-T25-1/5-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1463

1463



1463

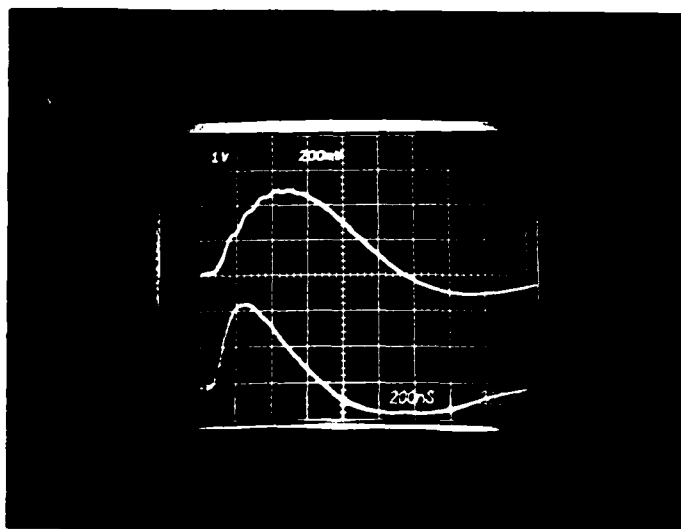
Date 6-18-85
 Test Point 85-T25-9/10-E
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (8000V)~~ ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1464



1464

VERTICAL @ .2V (1600V) per div.

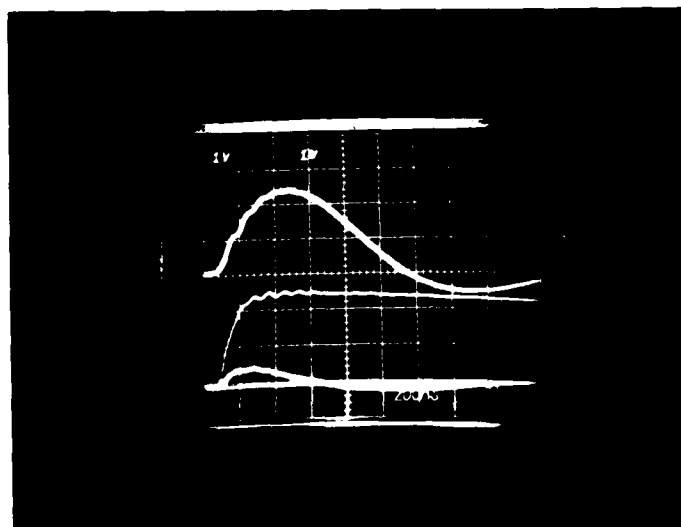
Date 6-18-85
 Test Point 101-T25-~~5~~11-~~0~~
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical ~~1V (2000A/V)~~ ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1467



1467

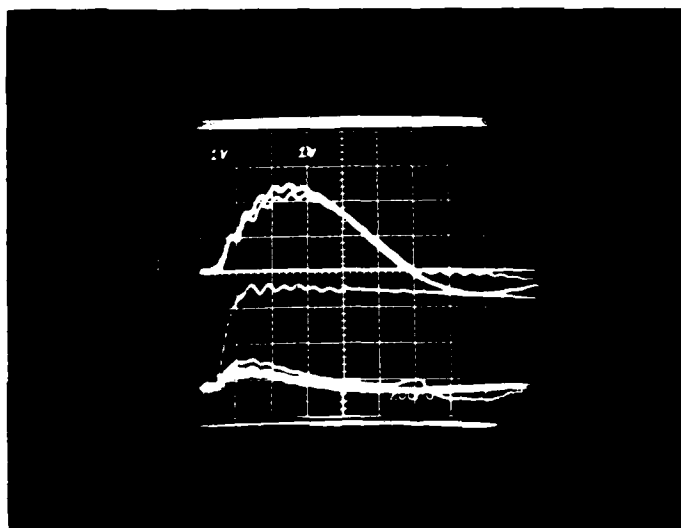
VERTICAL @ .2V (1600V) per. div.
 PULSES 1/5 (NO PHOTO)

Date 6-18-85
 Test Point 101-T25-~~5~~10-~~0~~
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000A/V) ~~1~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) ~~1~~/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1466



1466

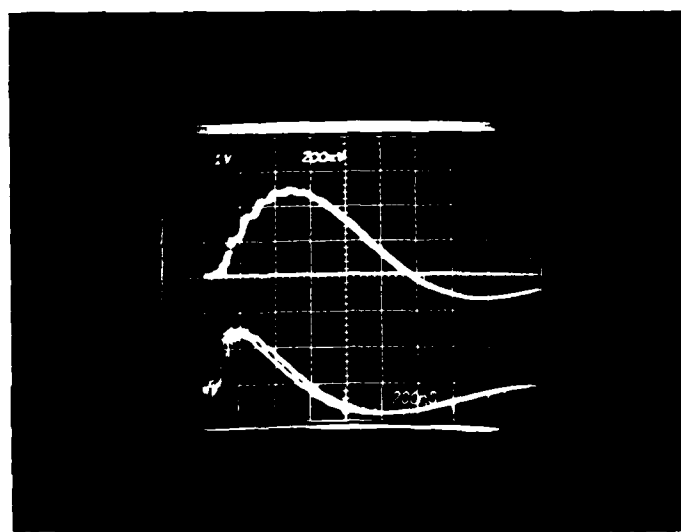
Date 6-19-85
 Test Point 109-T25-1/5- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1488

"HOT"

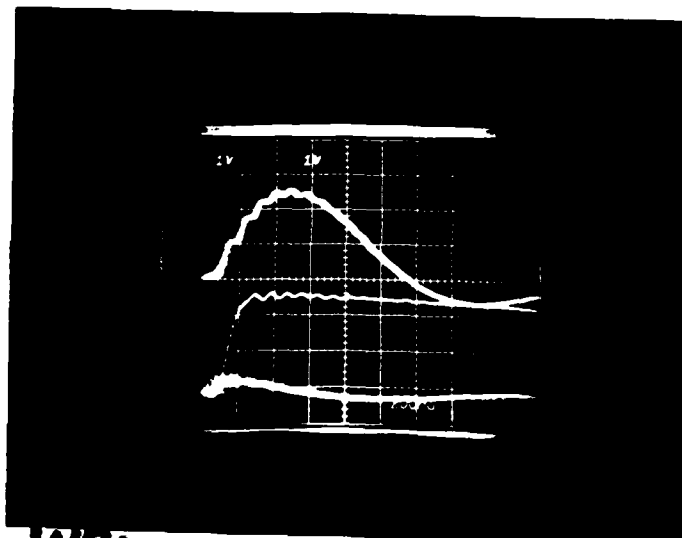
Date 6-19-85
 Test Point 109-T25-6/10- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



1489

"HOT"

Date 6-19-85
 Test Point 109-T25-1/5-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 772



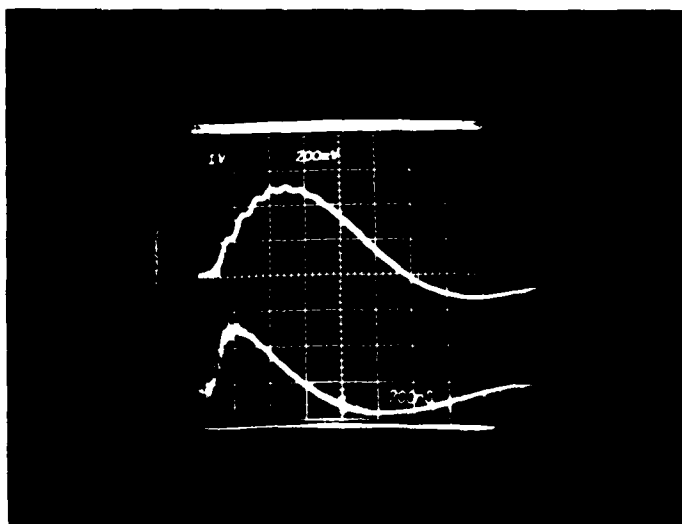
1490

"COMMON"

"ARC" INTERNAL

"FIRED ONE TIME WITHOUT ARCING"

Date 6-19-85
 Test Point 109-T25-6/10-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1491

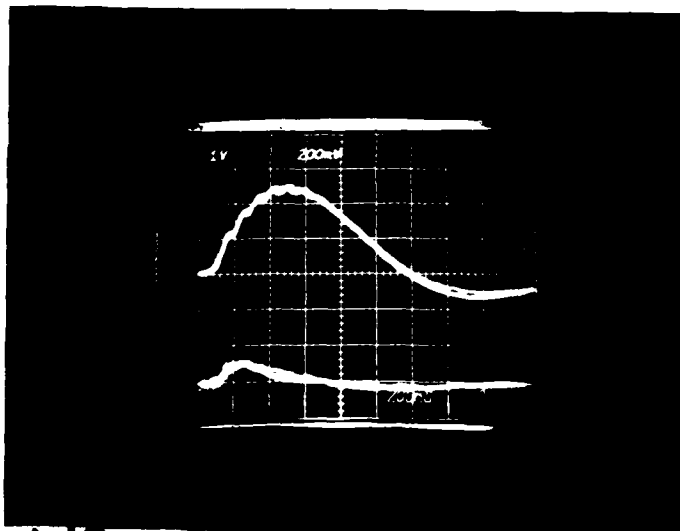


1491

"COMMON"

"ARC" INTERNAL

Date 6-19-85
 Test Point 110-T25-1/5- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1472

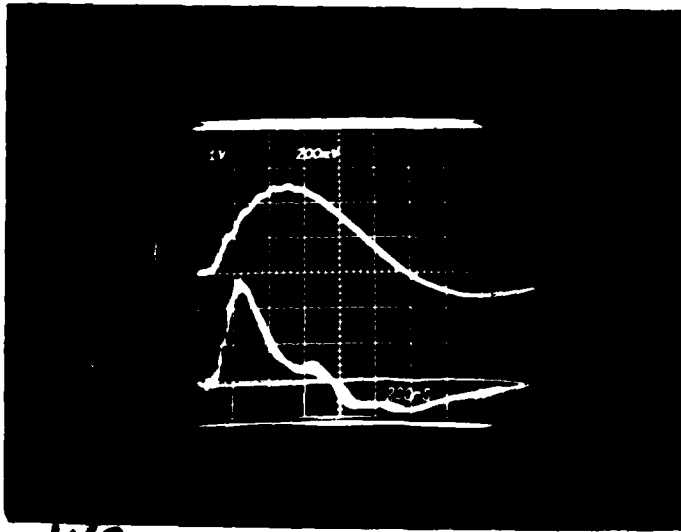


1492

"HOT"

INTERNAL ARC
 FIRED ONE TIME WITHOUT ARCING

Date 6-19-85
 Test Point 110-T25-6/10- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments: 1493

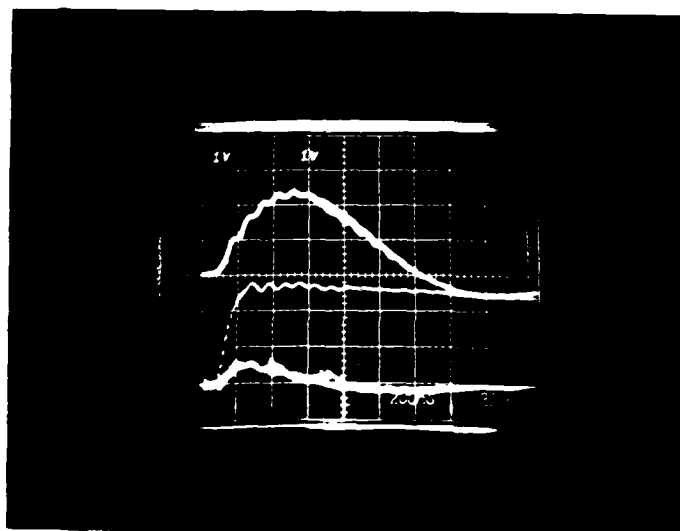


1493

"HOT"

INTERNAL ARC

Date 6-19-85
 Test Point 110-T25-1/5-0
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



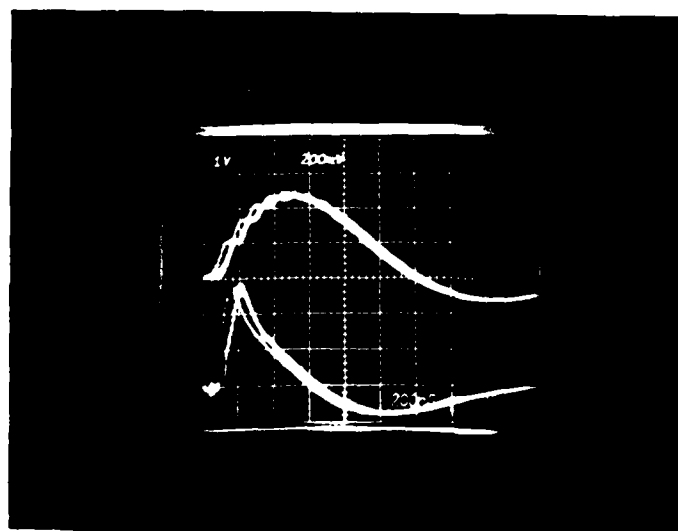
1494

"COMMON"

INTERNAL ARC

FIRED ONE TIME WITHOUT ARCING

Date 6-19-85
 Test Point 116-T25-6/10-0
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

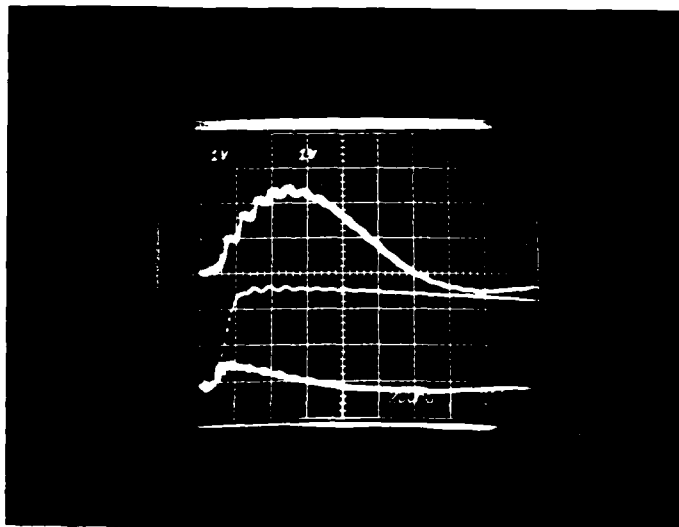


1495

"COMMON"

INTERNAL ARC

Date 6-19-85
 Test Point III-T25-1/5-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ns/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

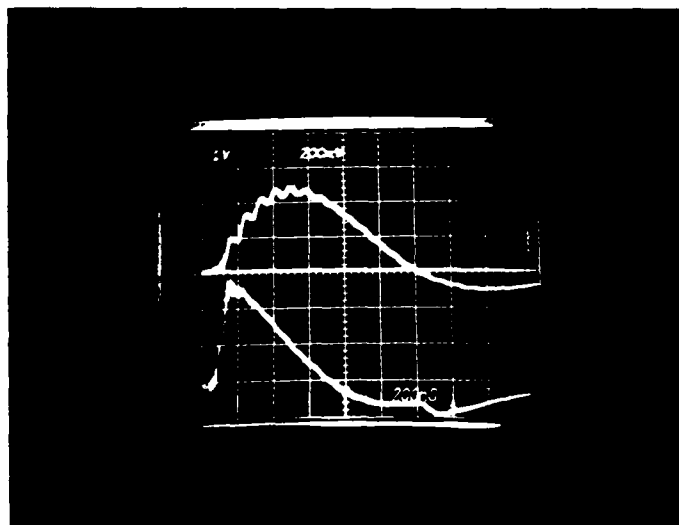


"HOT"

1484

ARC FROM COMMON TERMINAL

Date 6-19-85
 Test Point III-T25-6/10-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) mV/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:



"HOT"

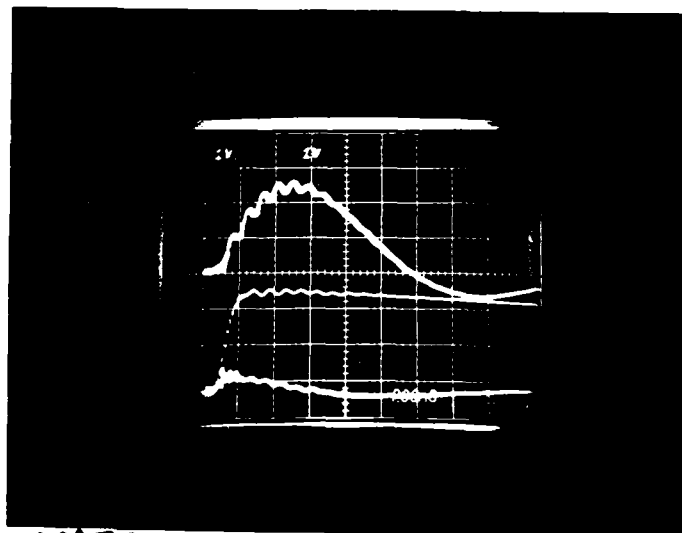
1485

ARC FROM COMMON SIDE

Date 6-19-85
 Test Point 111-T25-1/5-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

Comments:

"COMMON"



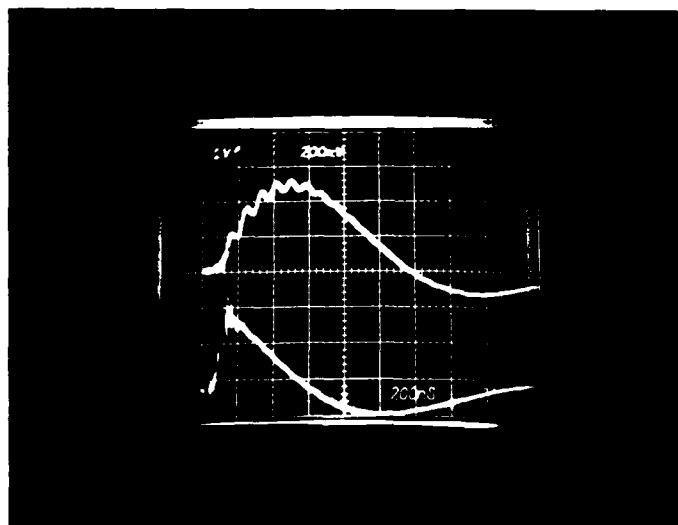
1486

ARC FROM COMMON SIDE

Date 6-19-85
 Test Point 111-T25-6/10-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25,000 V
 Data Link

Comments:

"COMMON"

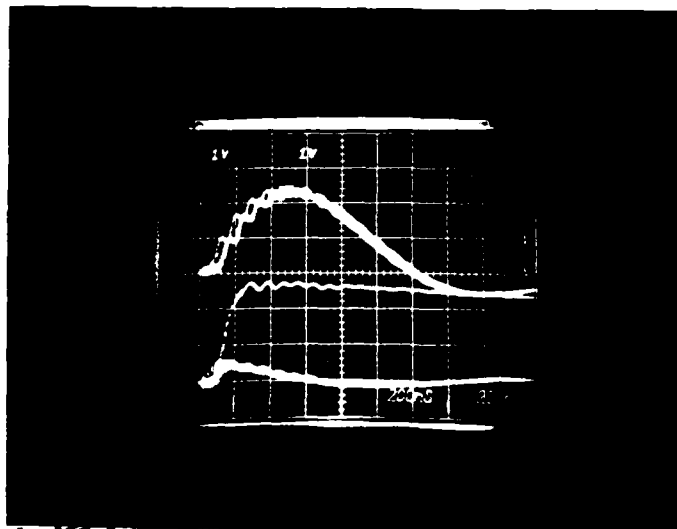


1487

ARC FROM COMMON SIDE

Date 6-19-85
 Test Point 112-T25-1/5- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) ~~1V~~/div 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) ~~1V~~/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

"HOT"

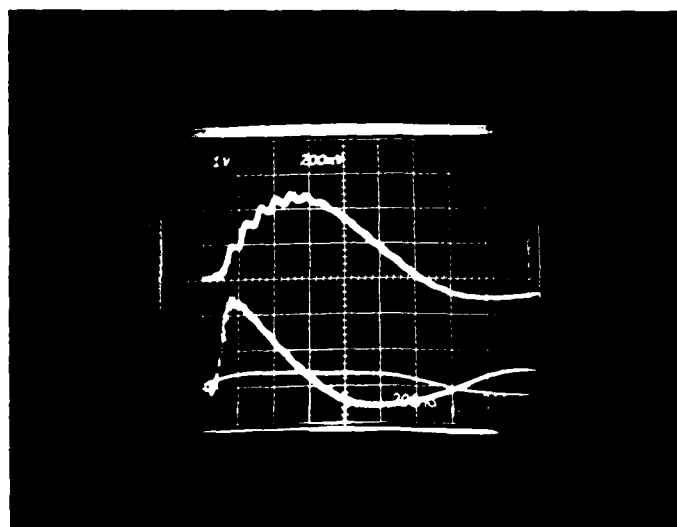


1496

SMALL ARC INTERNAL

Date 6-19-85
 Test Point 112-T25-6/10- ϕ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) ~~1V~~/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) ~~1V~~/div 2
 Configuration -20dB
 Pulsar Level 25,000 V
 Data Link
 Comments:

"HOT"



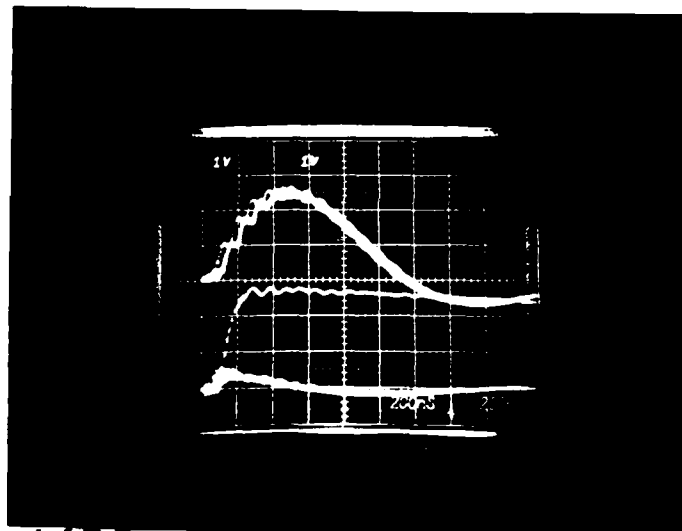
1497

SMALL ARC INTERNAL

Date 6-19-85
 Test Point 112-T25-1/5-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) 1
 Horizontal 200 ns/div 2
 Vertical 1V(8000V) 2
 Configuration -20 dB
 Pulse Level 25,000 V
 Data Link

Comments:

"COMMON"



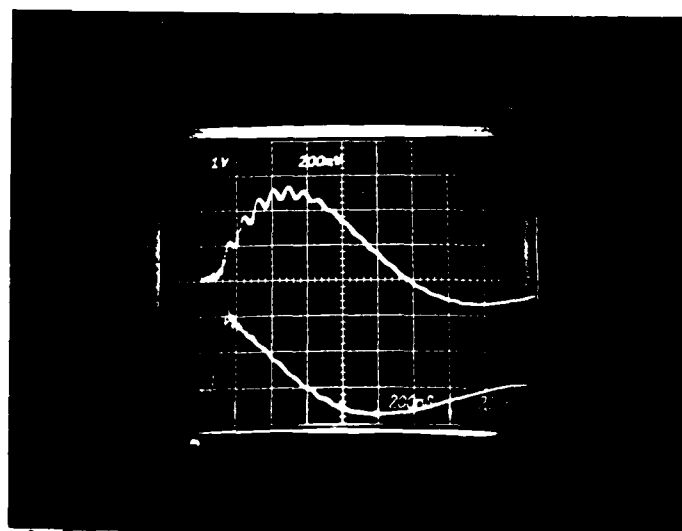
1498

SMALL INTERNAL ARC

Date 6-19-85
 Test Point 112-T25-6/10-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000A/V) 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) 2
 Configuration -20 dB
 Pulse Level 25,000 V
 Data Link

Comments:

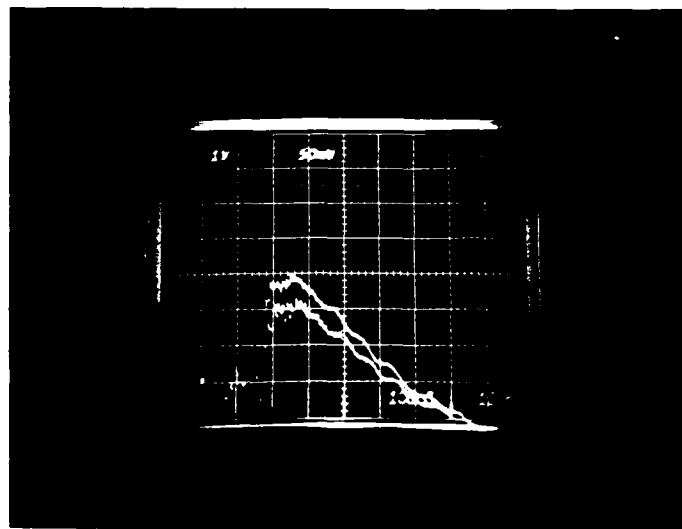
"COMMON"



1499

SMALL INTERNAL ARC

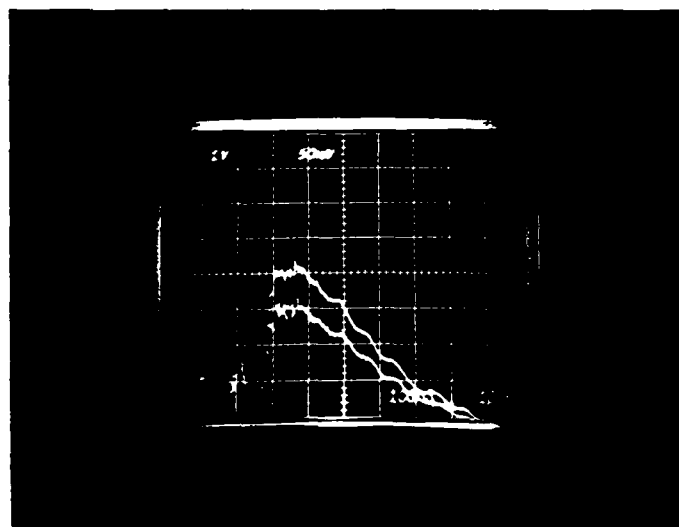
Date	6-21-85
Test Point	113-T25-1-φ
Amplification	dB
Attenuation	-20 dB
Horizontal	100 ns/div 1
Vertical	.05(400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	25000V
Data Link	
Comments:	1581



1581 A

MOV + SPARK GAP IN UHF BOX

Date	6-21-85
Test Point	116-T25-1-0
Amplification	0 dB
Attenuation	-20 dB
Horizontal	100 ns/div 1
Vertical	.05V(400V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	25000V
Data Link	
Comments:	1582

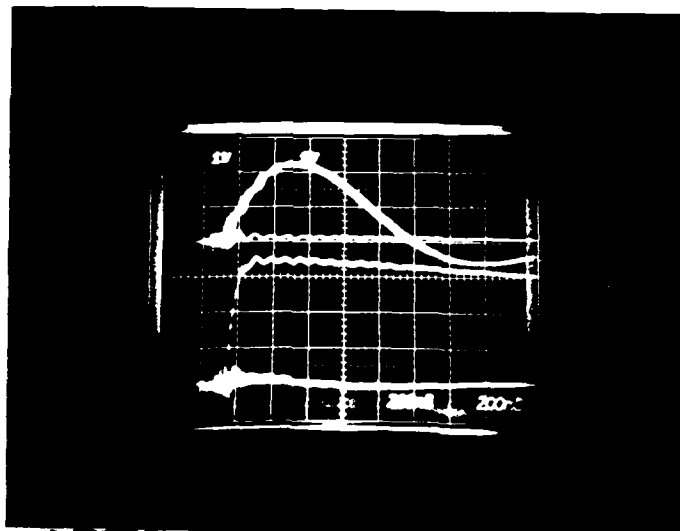


1582

SPARK GAP IN UHF BOX

Date 6-21-85
 Test Point 114-T25-1/5-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V (2000 A/V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical 1V (8000V) mV/div 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link
 Comments:

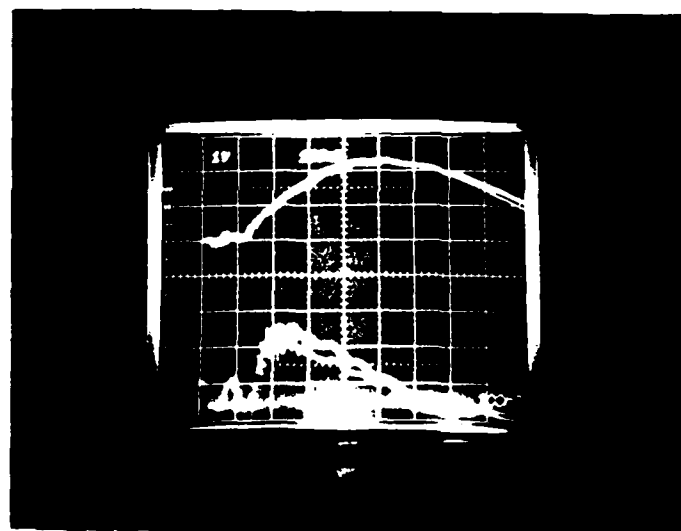
1578



1578

Date 6-21-85
 Test Point 114-T25-9/10-Ø
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 100 ns/div 1
 Vertical 1V (2000 A/V) mV/div 1
 Horizontal 100 ns/div 2
 Vertical .1V (800V) mV/div 2
 Configuration -20 dB
 Pulsar Level 25000V
 Data Link
 Comments:

1579



1579

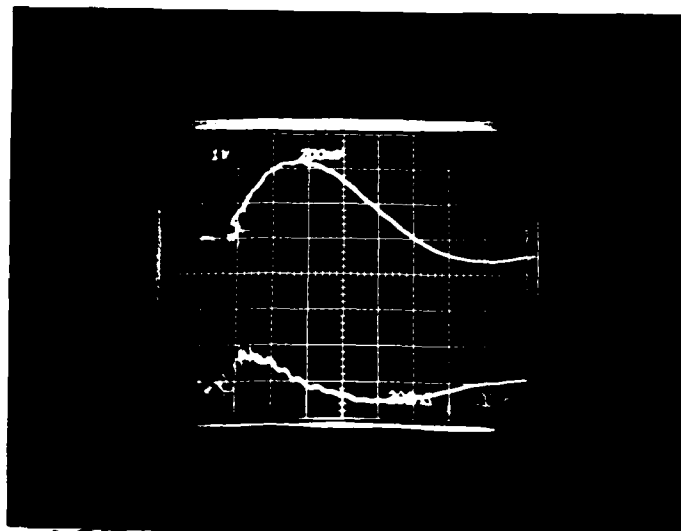
DATA + REF GND VOLTAGE DISPLAYED ON LOWER

TRACE - SC GND V = 800V

DATA V = 1200V

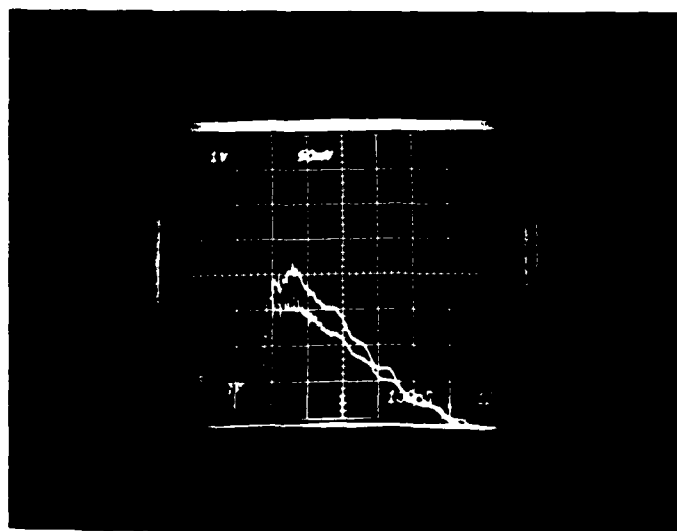
DATA - Δ V = 400V CLAMP.

Date 6-21-85
 Test Point 114-T25-R11-φ
 Amplification 0 dB
 Attenuation 40 dB
 Horizontal 200 ns/div 1
 Vertical 1V(2000V) mV/div 1
 Horizontal 200 ns/div 2
 Vertical .2V(1600V) ns/div 2
 Configuration -20dB
 Pulsar Level 25000V
 Data Link
 Comments: 1580



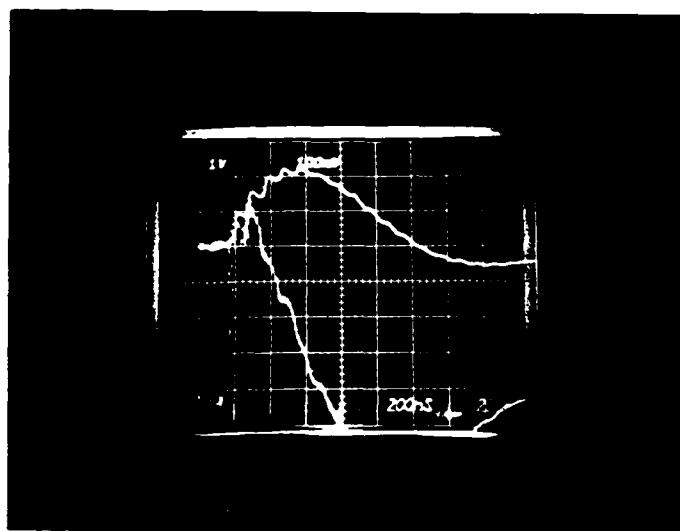
TRANSORB + SPARK GAP

Date 6-21-85
 Test Point 114-T25-R12-φ
 Amplification 0 dB
 Attenuation -20 dB
 Horizontal 100 ns/div 1
 Vertical .05(400V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 25000V
 Data Link
 Comments: 1581



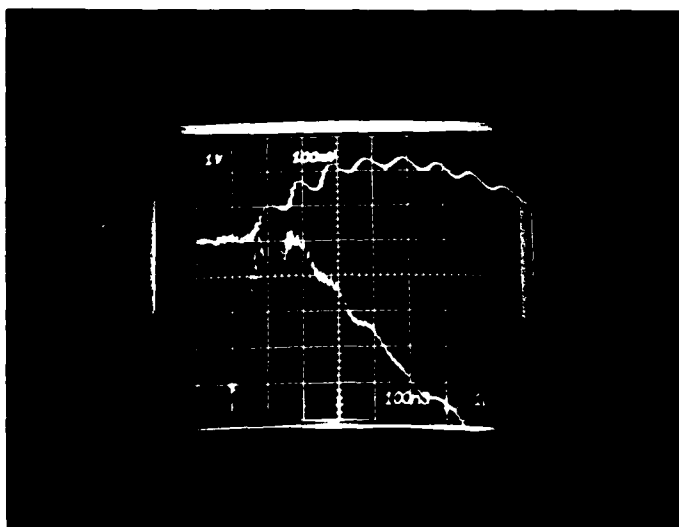
DATA = 1200V
 SC GND = 800V
 Δ = 400V CLAMP -

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	



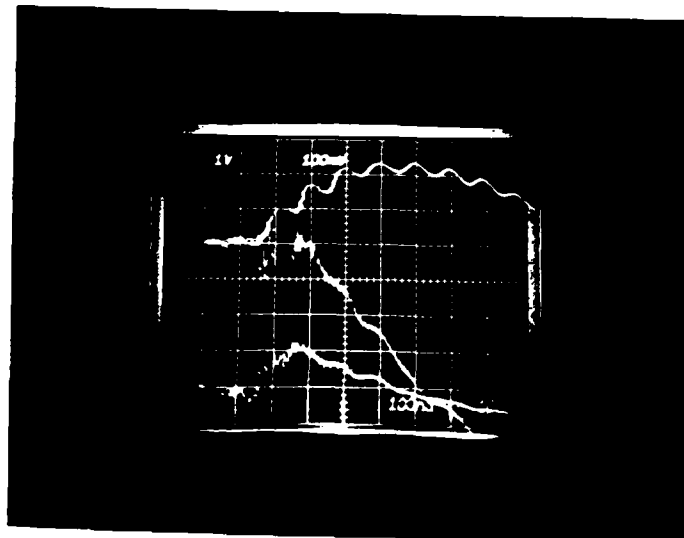
Item 30 pulsed T25 w/AC power on.

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	



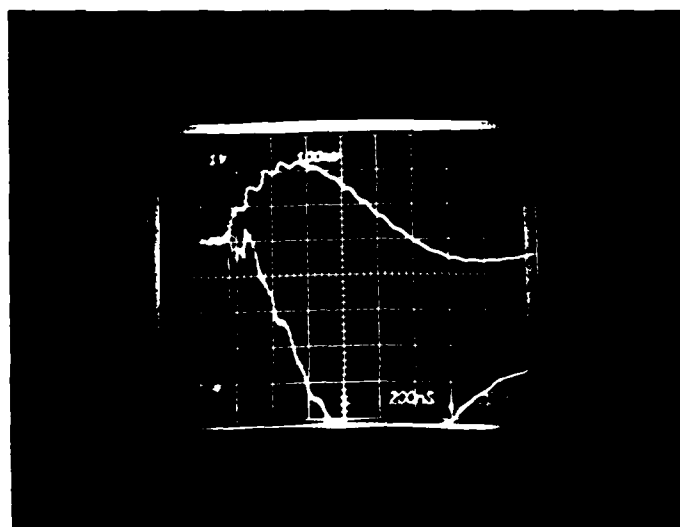
Two(2) item #69 in series
pulsed -

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	



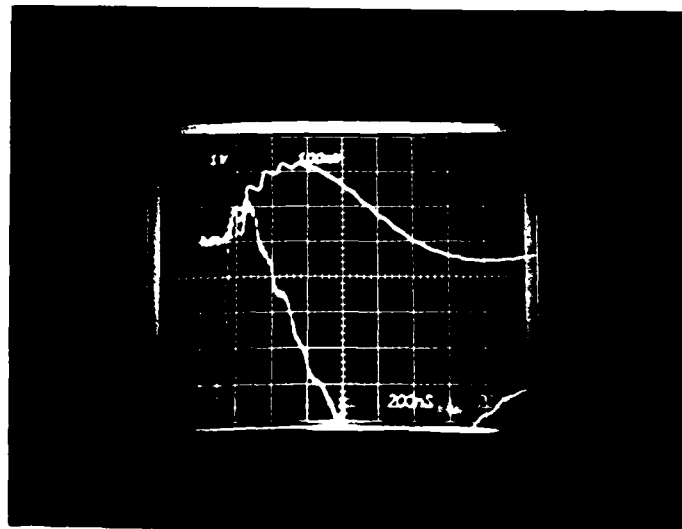
Two (2) item #69 in series
w/o AC - lived

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	



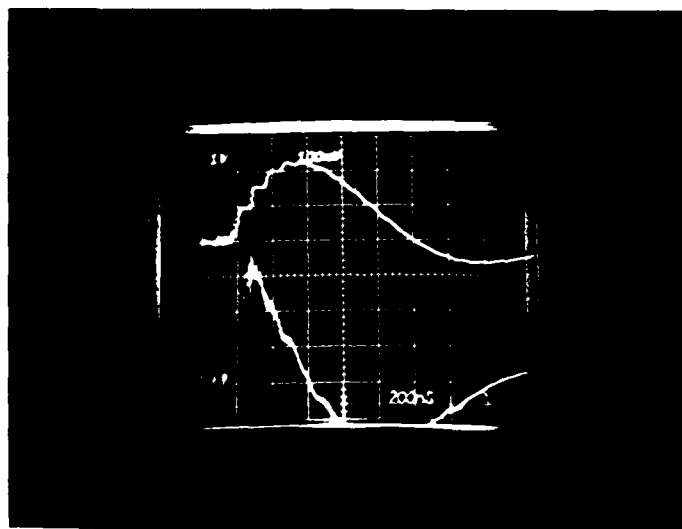
Two (2) item 69's in series
w/AC - lived

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	



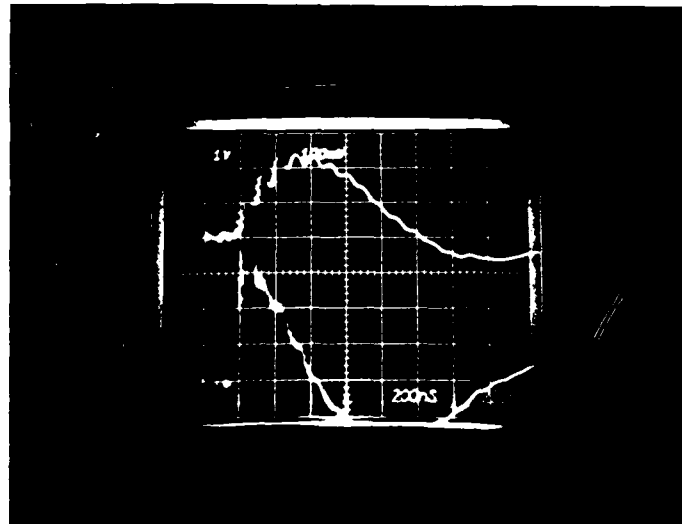
Item 30 pulsed T25 w/o AC power on

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	



Item ^{SG}#69 tested after item 30 removed from circuit - it died - Pulsed with AC on -

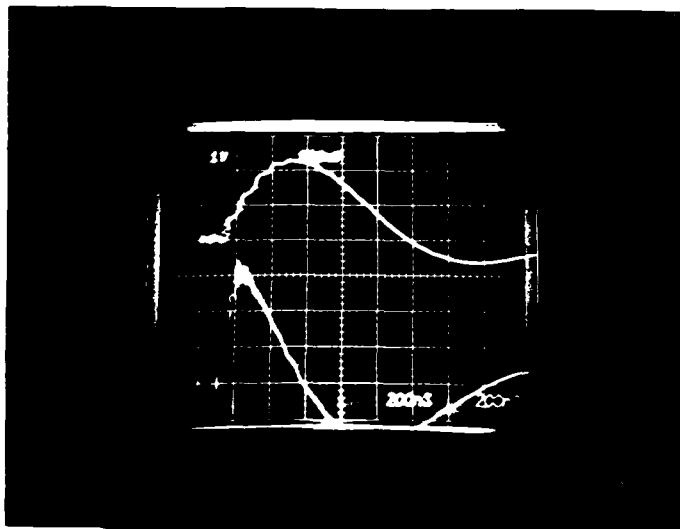
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	



SG
Item 69 - Pulsed after MOV #30 removed
from circuit - no AC applied -

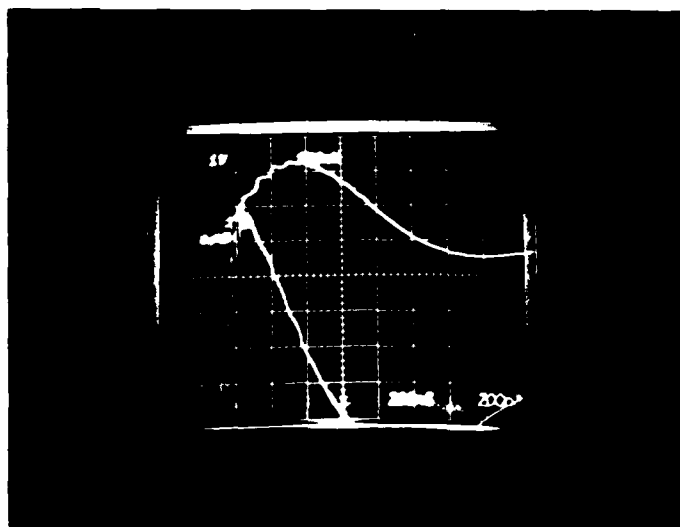
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	



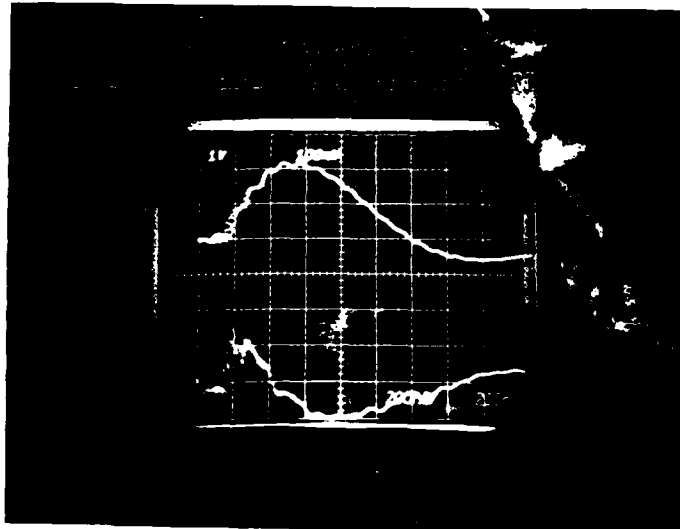
MOV# 130 + Spark Gap #69 pulsed w/o AC

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	



MOV# 130 pulsed alone T25

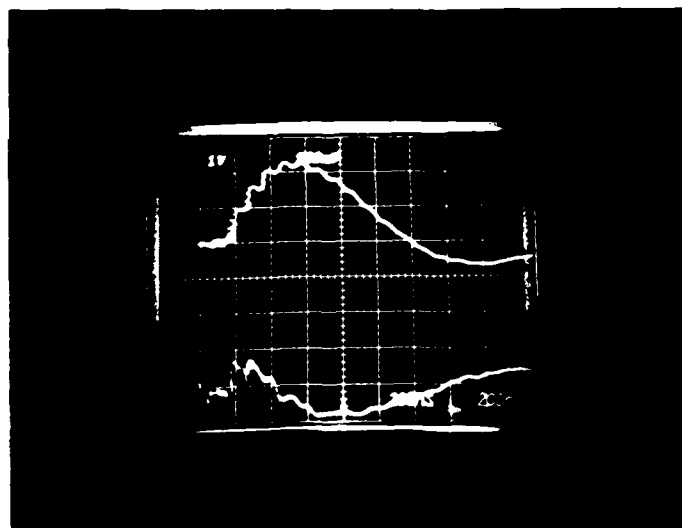
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	



MOV W/AC PULSED T25
~~30~~
52

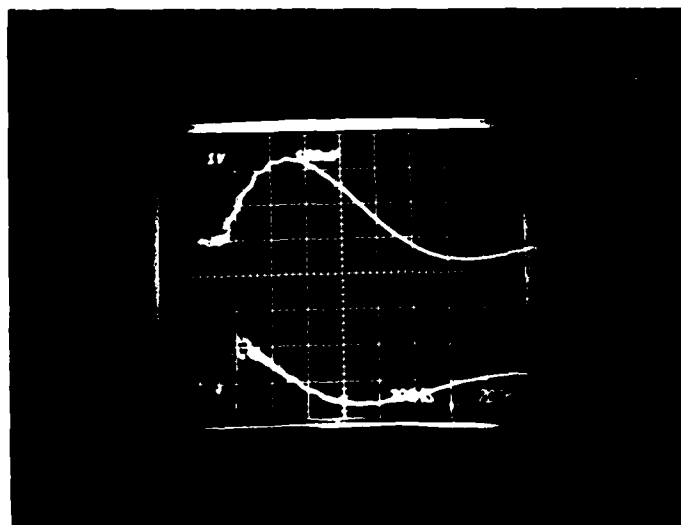
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	



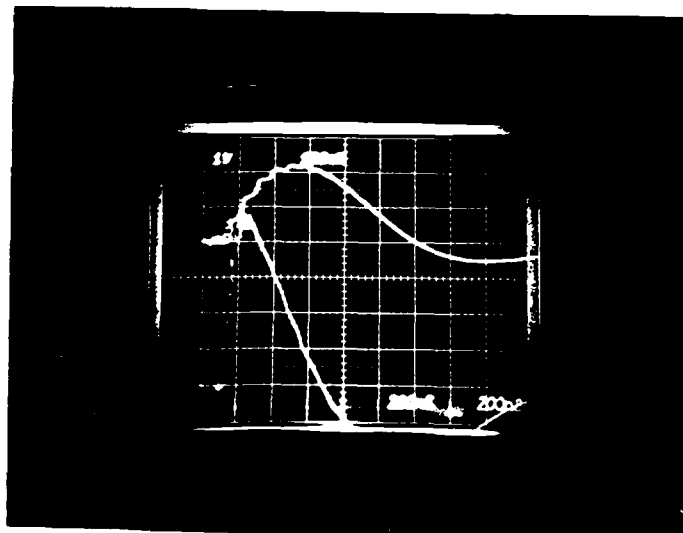
#52
 SIEMENS MOV (130) + SPARK GAP 69
 PULSED W/O AC worked

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	



GND REF
 V-100MV/DIV- 200NS DIV
 I- 1V/DIV- 200NS DIV

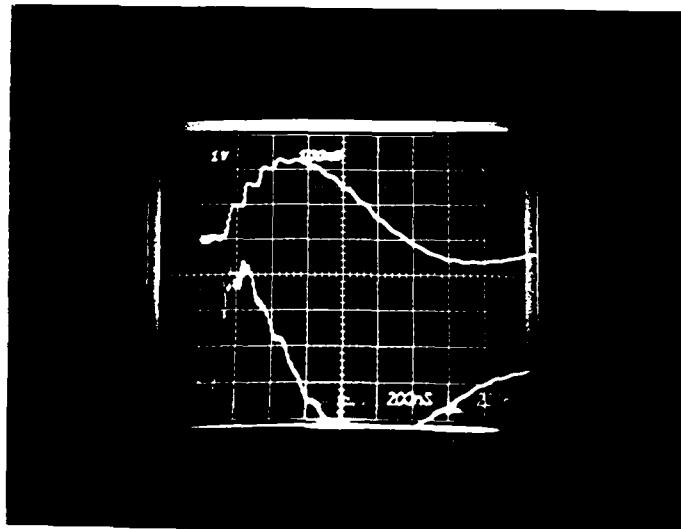
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	



MOV #130 pulsed alone -
worked

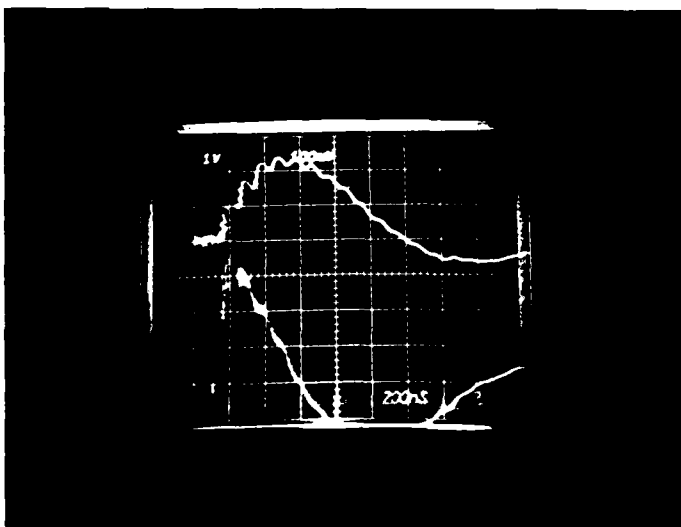
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	



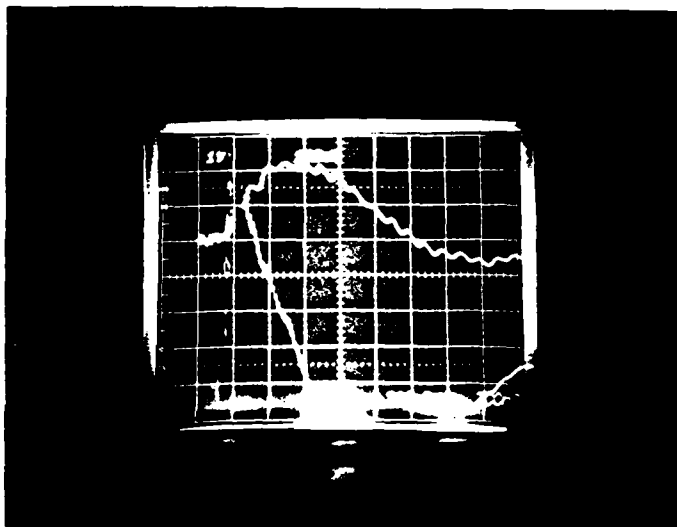
Item 69+30 pulsed w AC power
lived

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	



Items 69+30 pulsed w/o AC power on
lived

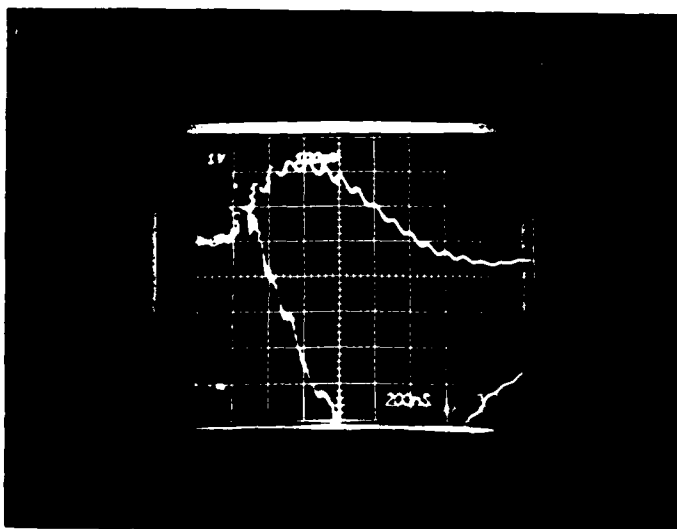
Date	6/21
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	25KV
Data Link	
Comments:	



FAILURE MODE

100-B

Date	6/21
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	25KV
Data Link	
Comments:	



FAILURE MODE

100-C

END

FILMED

386

DTIC