

AD-A164 434L

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

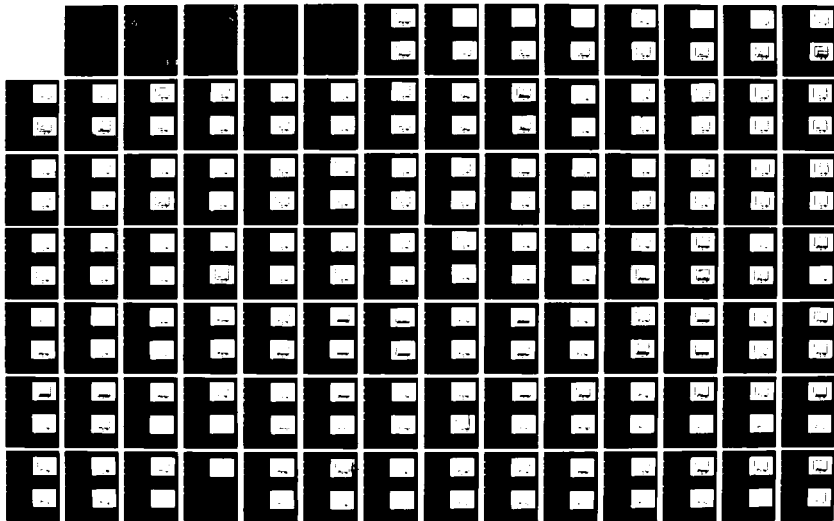
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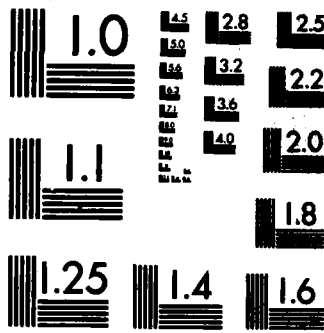
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NCS-T1B-85-10-VOL-3-SEC-3 DCA100-85-C-0010

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

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NCS TIB 85-10



NATIONAL COMMUNICATIONS SYSTEM

AD-A164 434

VOLUME III

TEST DATA

ELECTROMAGNETIC PULSE TESTING
OF PROTECTION DEVICES

SECTION 3

LOW IMPEDANCE/HIGH VOLTAGE
TEST

5 OHMS - 4500 VOLTS - 1000 AMPS

DTIC FILE COPY

OCTOBER 1985

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REPORT DOCUMENTATION PAGE

1a REPORT SECURITY CLASSIFICATION Unclassified		1b RESTRICTIVE MARKINGS None	
2a SECURITY CLASSIFICATION AUTHORITY		3 DISTRIBUTION / AVAILABILITY OF REPORT Approved for public release distribution unlimited	
2b DECLASSIFICATION / DOWNGRADING SCHEDULE			
4. PERFORMING ORGANIZATION REPORT NUMBER(S) NCS TIB 85-10, Vol. III, Section 3		5. MONITORING ORGANIZATION REPORT NUMBER(S)	
6a NAME OF PERFORMING ORGANIZATION Electrospace Systems, Inc.	6b OFFICE SYMBOL <i>(If applicable)</i>	7a. NAME OF MONITORING ORGANIZATION National Communications System Technology & Standards	
6c. ADDRESS (City, State, and ZIP Code) 1725 S. Jefferson Davis Hwy., Suite 501 Arlington, VA 22202-0668		7b. ADDRESS (City, State, and ZIP Code) Washington, D.C. 20305-2010	
8a. NAME OF FUNDING / SPONSORING ORGANIZATION National Communications System	8b. OFFICE SYMBOL <i>(If applicable)</i> NCS-TS	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER DCA100-85-C-0010	
8c. ADDRESS (City, State, and ZIP Code) Washington, D.C. 20305-2010		10. SOURCE OF FUNDING NUMBERS	
		PROGRAM ELEMENT NO. 33127K	TASK NO. D1 6
		PROJECT NO.	WORK UNIT ACCESSION NO. ORD1 DOOC
11. TITLE (Include Security Classification) <i>Volume III</i> Electromagnetic Pulse Transient Threat Testing of Protection Devices for Amateur/Military Affiliate Radio System Equipment (U) <i>Section 3, Low Impedance / High Voltage Test 5 ohms-450V Volts - 1000 Amps</i>			
12. PERSONAL AUTHOR(S) Dennis Bodson, NCS; Joseph Frizzell and Thomas Higdon (ESI); Walter Rabke (Consultant)			
13a. TYPE OF REPORT Technical	13b. TIME COVERED FROM TO	14 DATE OF REPORT (Year, Month, Day) 1985, October, 31	15. PAGE COUNT
16. SUPPLEMENTARY NOTATION			
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP	Amateur Radio Equipment EMP, Lightning Protection, Electro- magnetic Pulse (EMP) Protection Devices Test, EMP, Lightning, Transient Electrical/Magnetic Pulses.
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			
20. DISTRIBUTION / AVAILABILITY OF ABSTRACT <input checked="" type="checkbox"/> UNCLASSIFIED-UNLIMITED <input type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a NAME OF RESPONSIBLE INDIVIDUAL Dennis Bodson		22b TELEPHONE (Include Area Code) (202) 692-2124	22c OFFICE SYMBOL NCS/TS

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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 (1298 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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Keywords included



14

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:

Edward P. Severe
for 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:

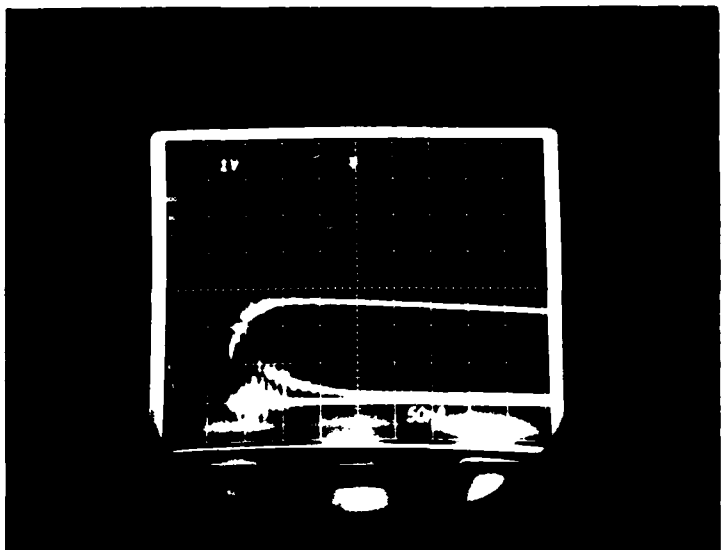
- o The exercise of their wartime and non-wartime emergency functions, and their planning and oversight responsibilities.
- o The coordination of the planning for and provision of National Security/Emergency Preparedness communications for the Federal government under all circumstances including crisis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

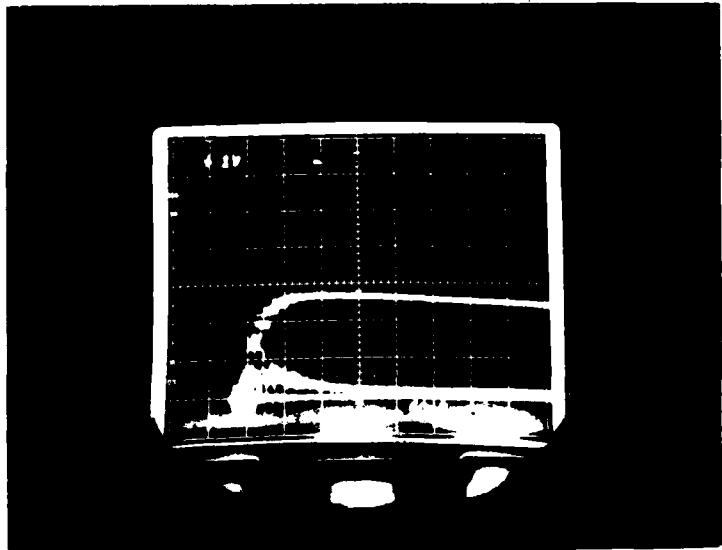
Office of the Manager
National Communications System
ATTN: NCS-TS
Washington, DC 20305-2010
(202) 692-2124

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 Vertical 1V(1900) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500 V
 Data Link
 Comments: 506



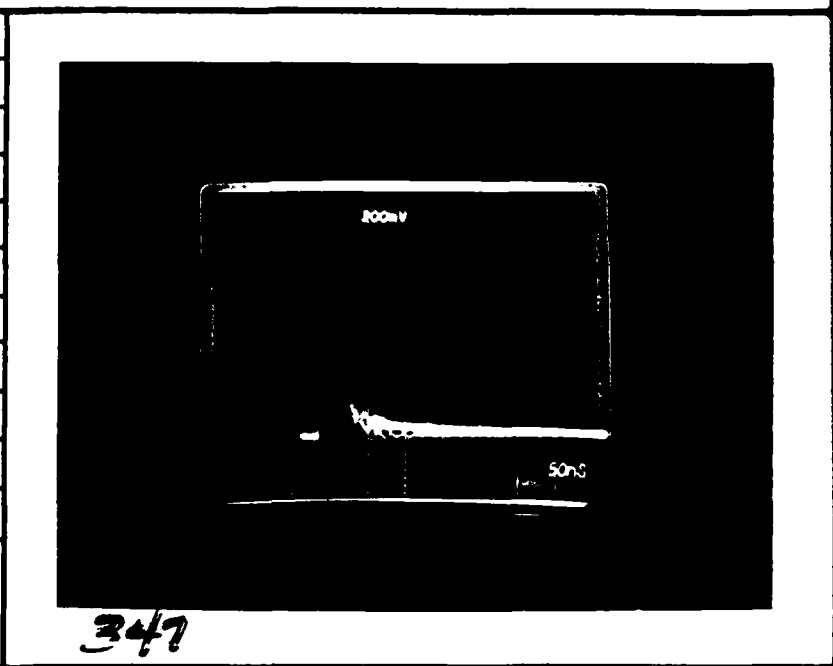
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 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
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 Data Link
 Comments:



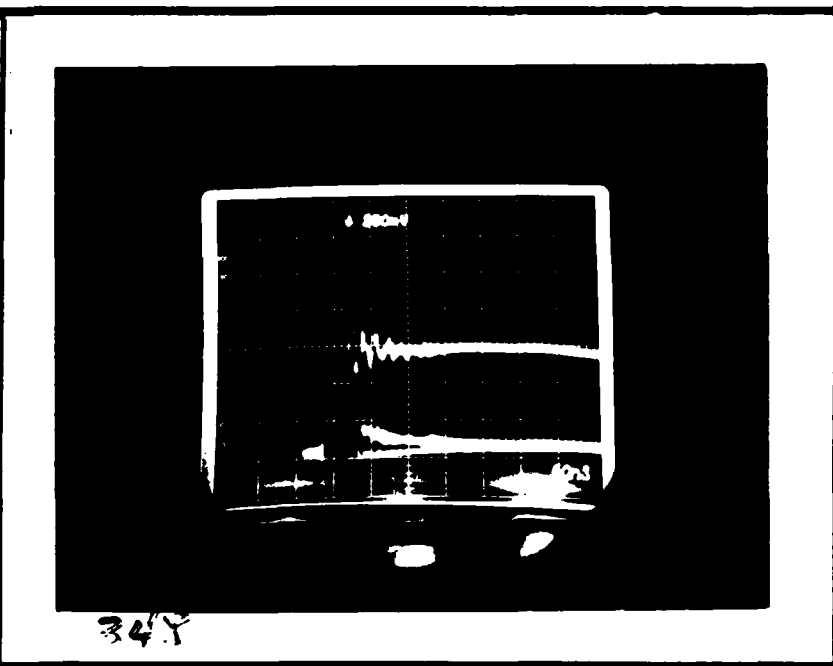
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Date	5-29-85
Test Point	2-BL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.2V (480V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	347

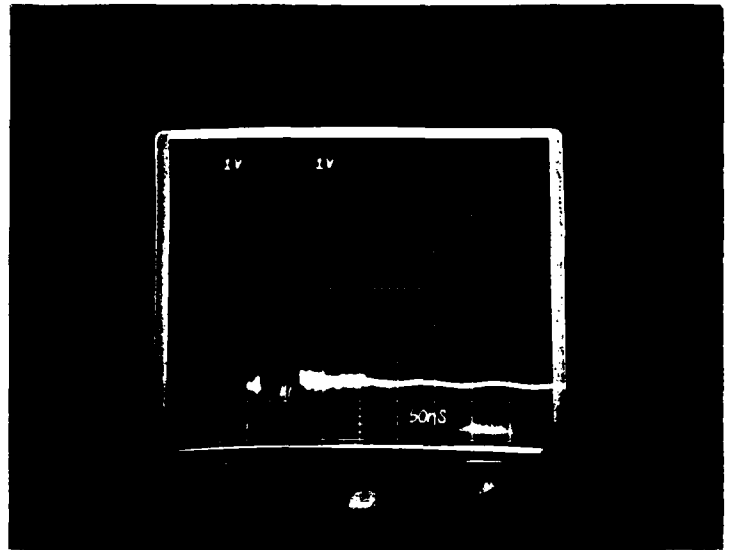


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Test Point	2R-BL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.2V (480V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	348

$V_{o REF} = .5V (1200V) / DIV$



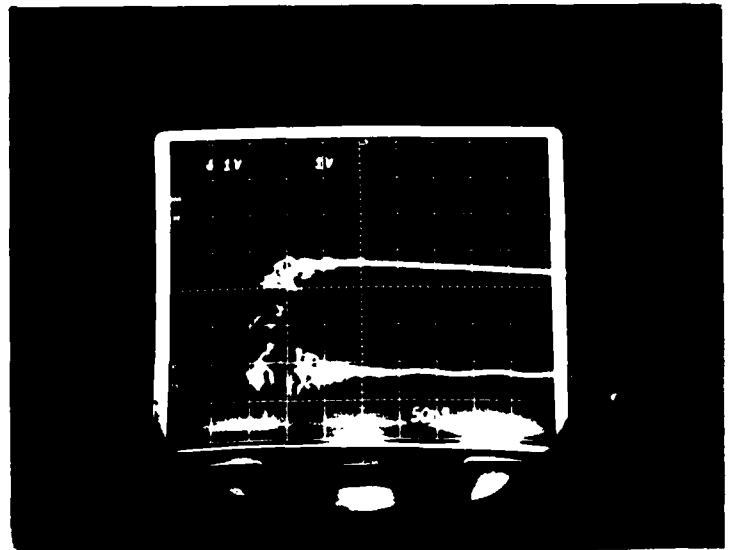
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Test Point	4-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	N (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	



360

$$V_0 = 0.786V$$

Date	5-29-85
Test Point	4R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	

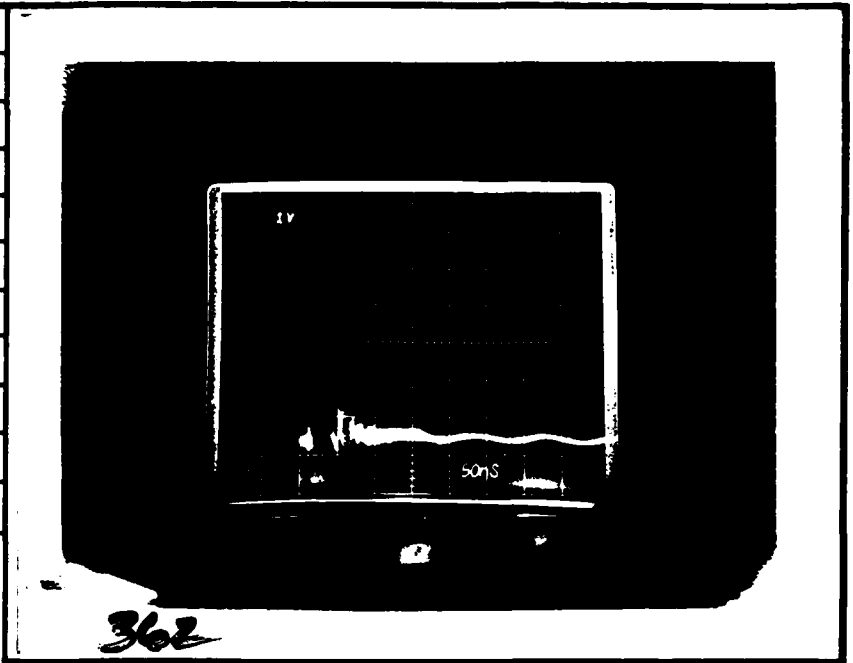


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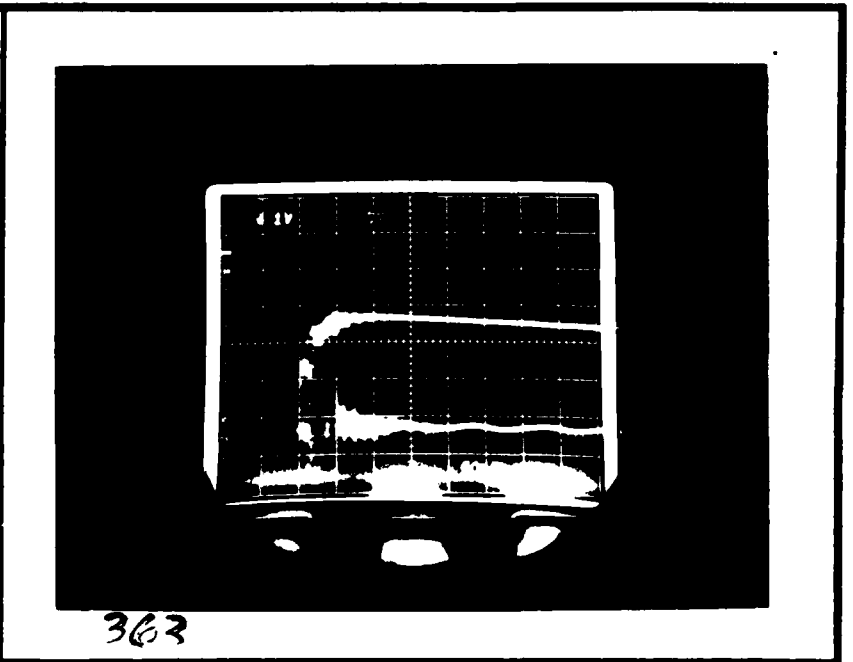
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 Amplification dB
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 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level 4500V
 Data Link

Comments:

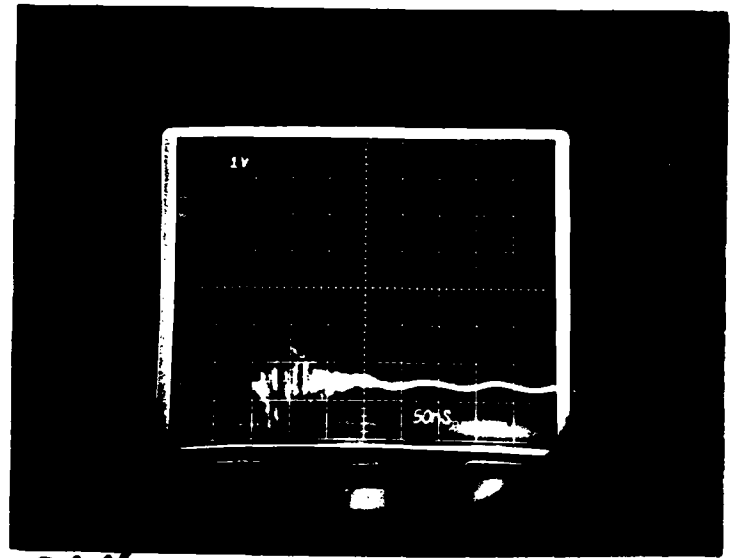


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 Vertical ns/div 2
 Configuration
 Pulser Level 4500V
 Data Link

Comments:

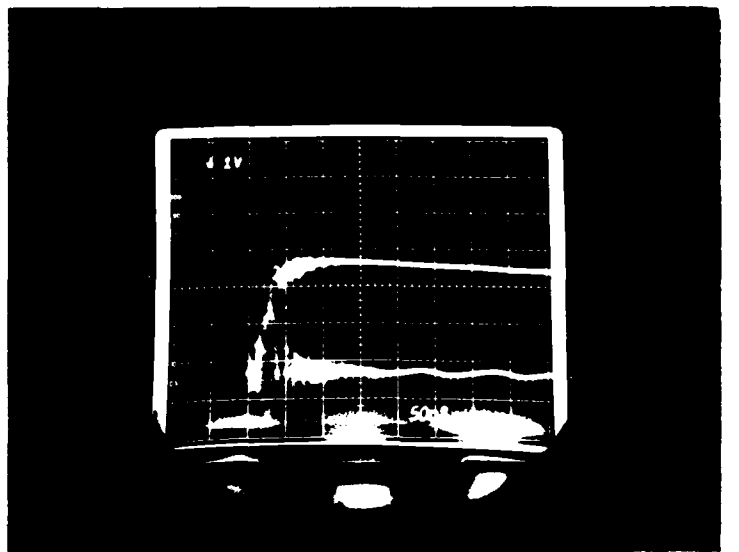


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Test Point	5-CL-1/10-A
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Attenuation	20 dB
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Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500V
Data Link	
Comments:	



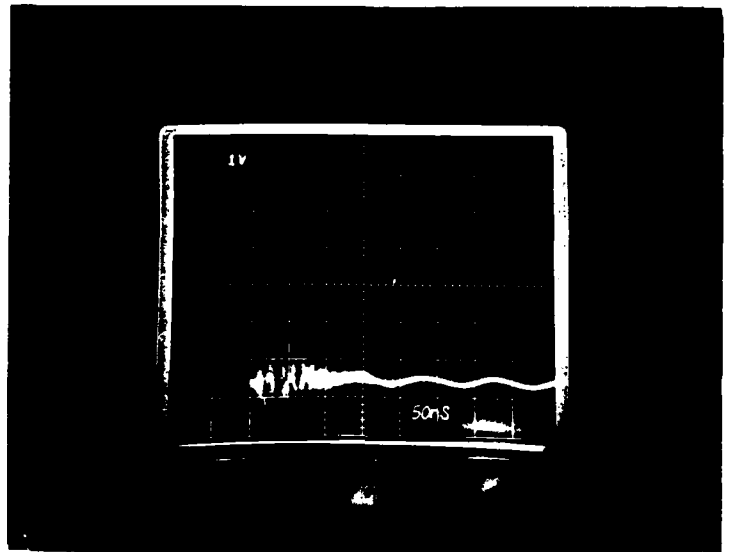
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Test Point	5R-CL-1/10-A
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Attenuation	20 dB
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Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500V
Data Link	
Comments:	



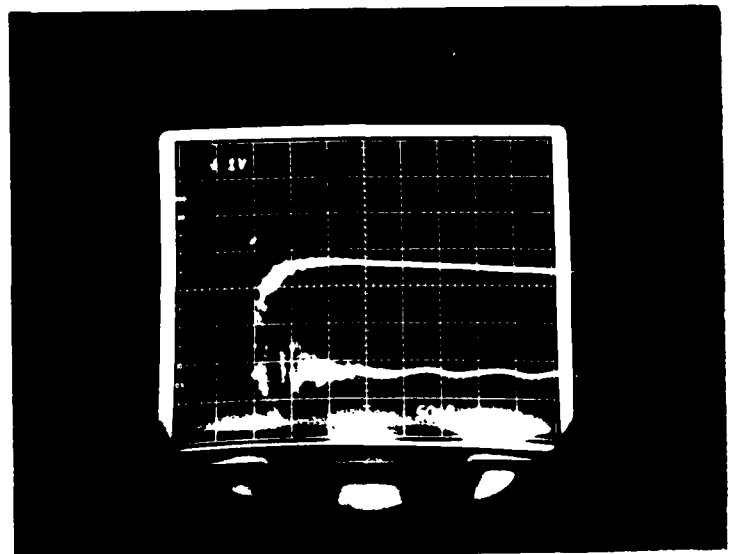
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Date 5-29-85
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 Amplification dB
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 Vertical 1V(1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level 4500V
 Data Link
 Comments:



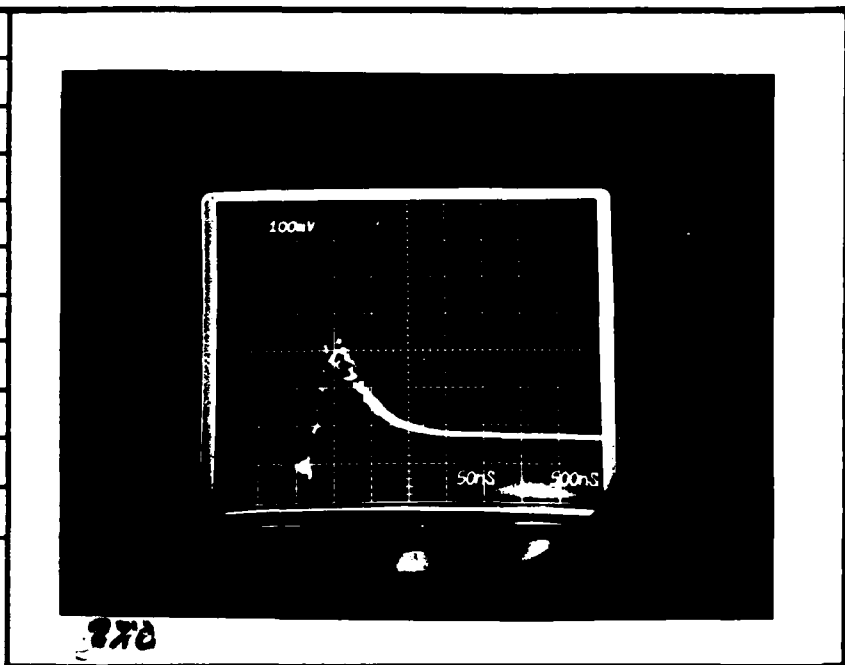
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Date 5-29-85
 Test Point 5R-CL-1/10-B
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 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level 4500V
 Data Link
 Comments:

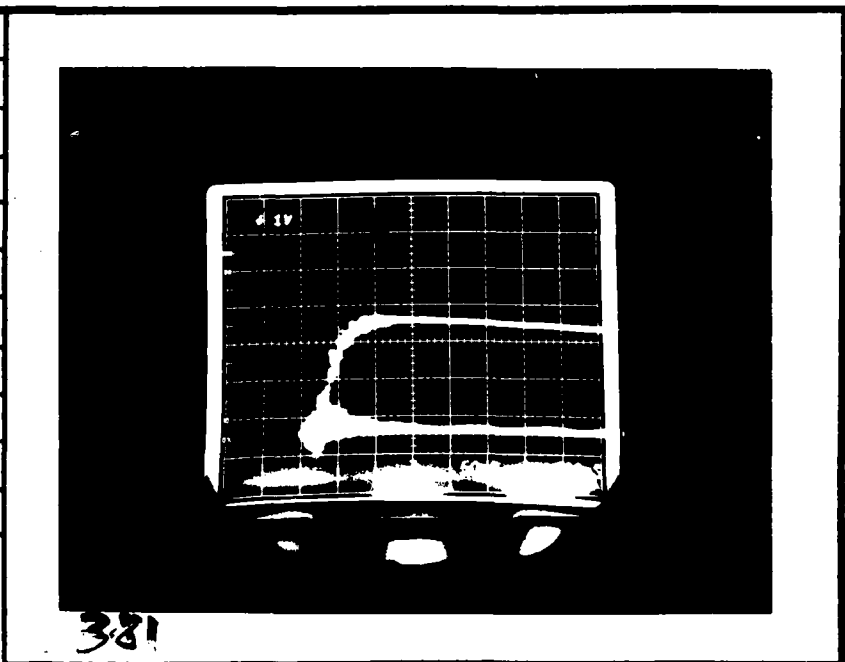


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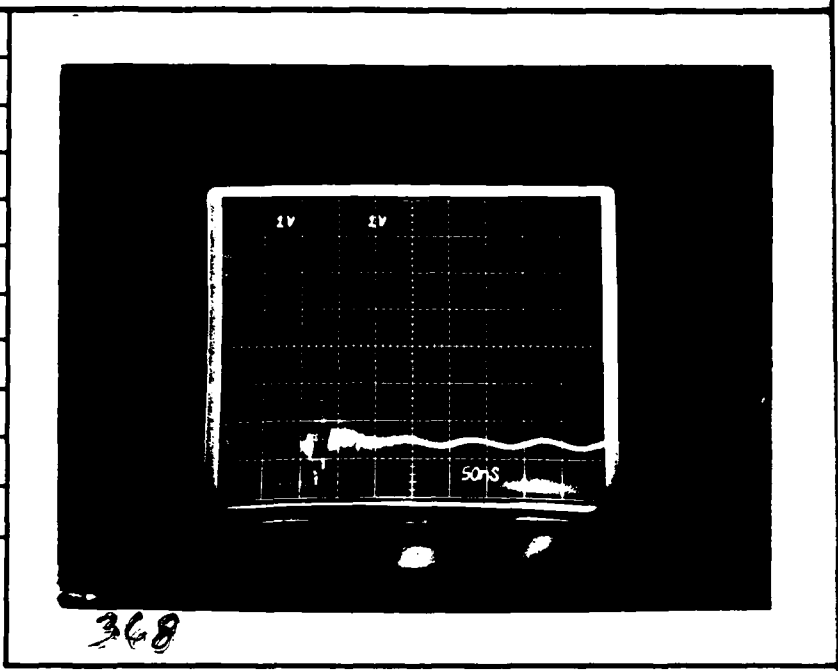
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Test Point	6-CL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.1V(190V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Date Link	
Comments:	370 .1V(190V)/Div.



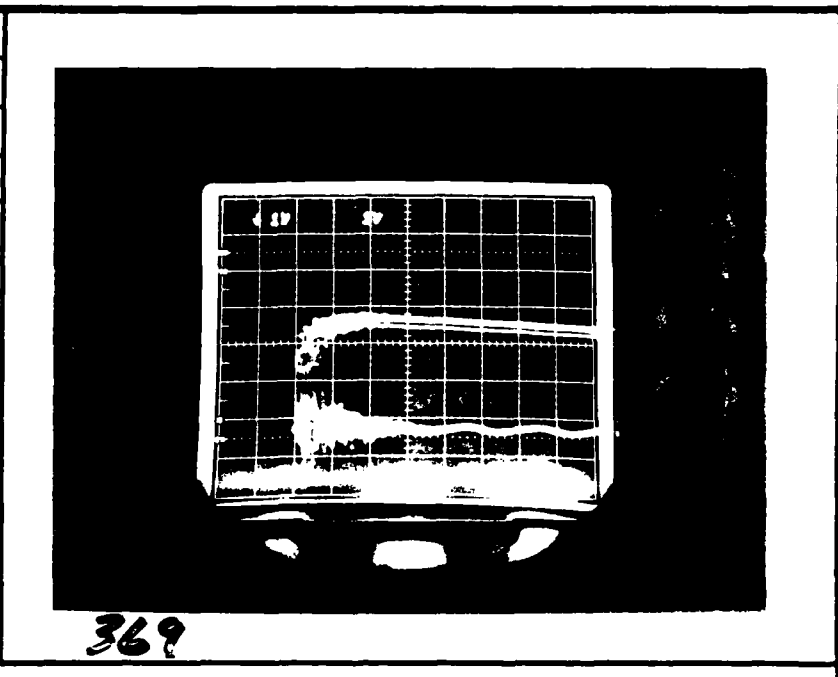
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Attenuation	20 dB
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Vertical	1V(1900V) mV/div 1
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Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Date Link	
Comments:	381 1.0V(1900V)/Div.



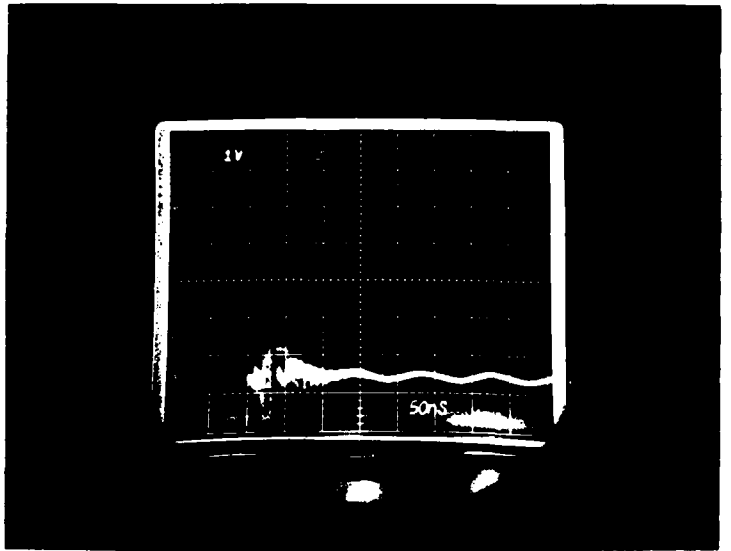
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Test Point	7-CL-1/10-φ
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Attenuation	20 dB
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Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	



Date	5-29-85
Test Point	7R-CL-1/10-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	

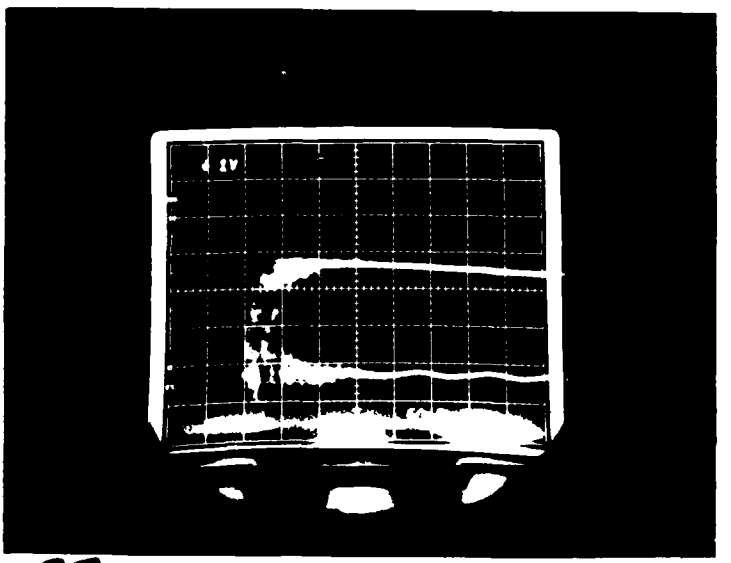


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Test Point	8-CL-110-Ø
Amplification	dB
Attenuation	20 dB
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Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	



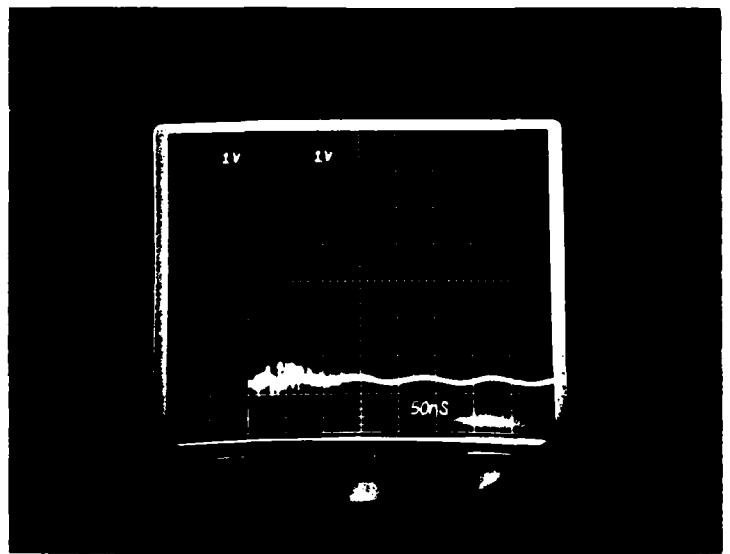
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Date	5-29-85
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Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	



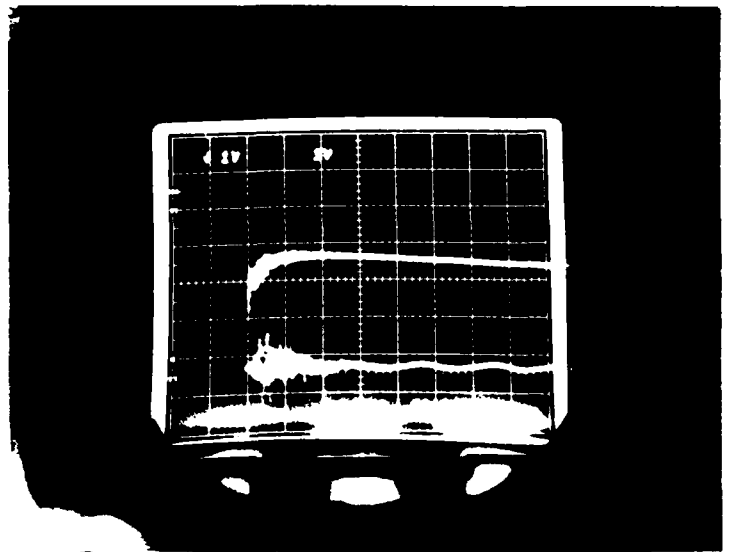
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Date	5-29-85
Test Point	9-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
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Vertical	N(1900V) mV/div 1
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Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	



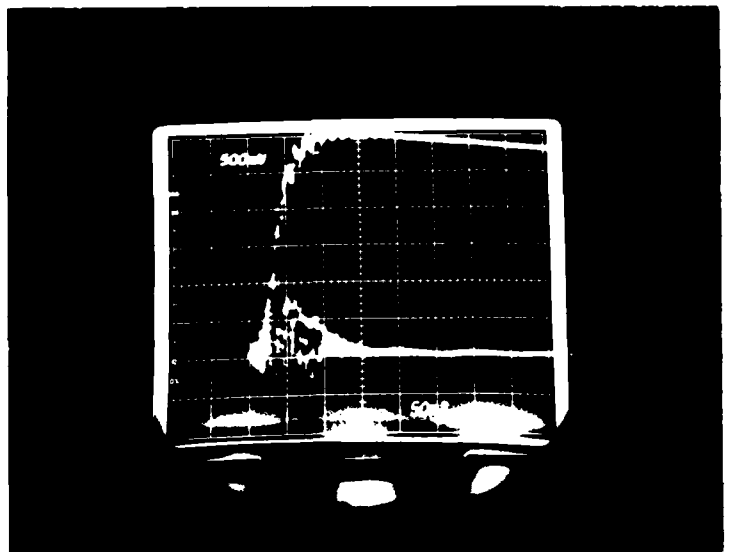
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Test Point	9R-CL-1/10-Ø
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Attenuation	20 dB
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Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	



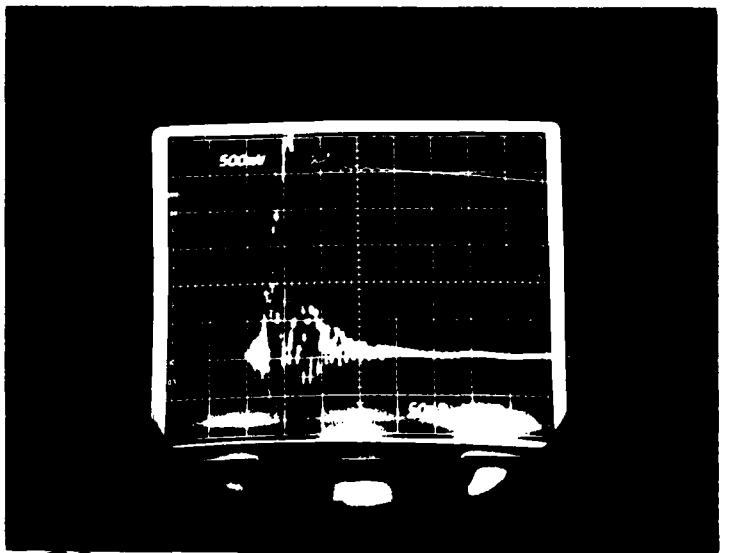
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Date	5-30-85
Test Point	11-CL-1/10-A
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) 1 div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500
Data Link	
Comments:	382



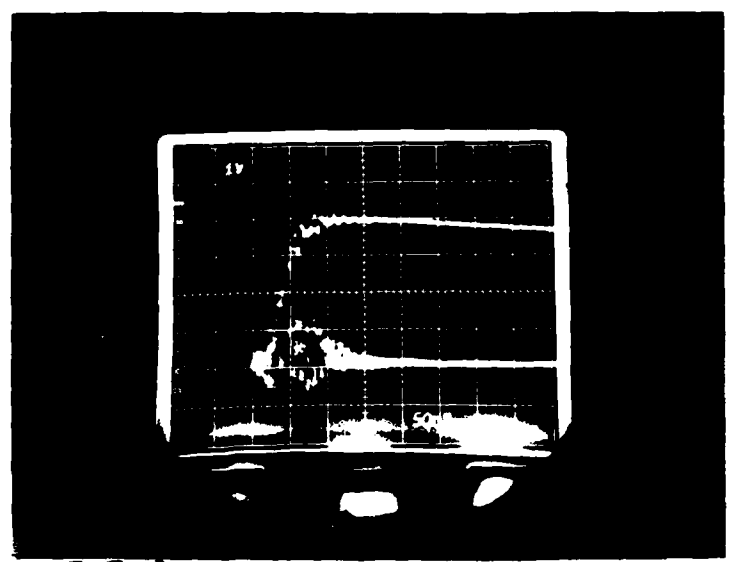
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Date	5-30-85
Test Point	11R-CL-1/10-A
Amplification	0 dB
Attenuation	20 dB
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Vertical	.5V(950V) 1 div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500
Data Link	
Comments:	383



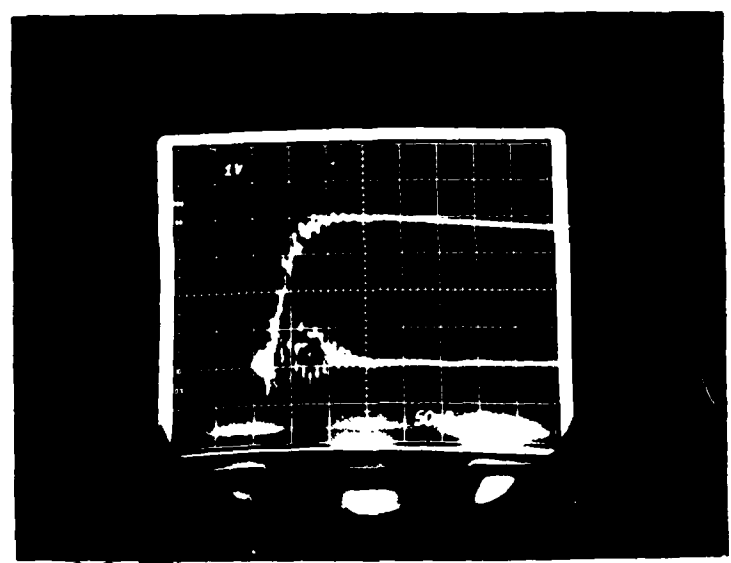
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Date 5-30-85
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 Amplification dB
 Attenuation 20 dB
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 Vertical 1V(1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500
 Data Link
 Comments: 384



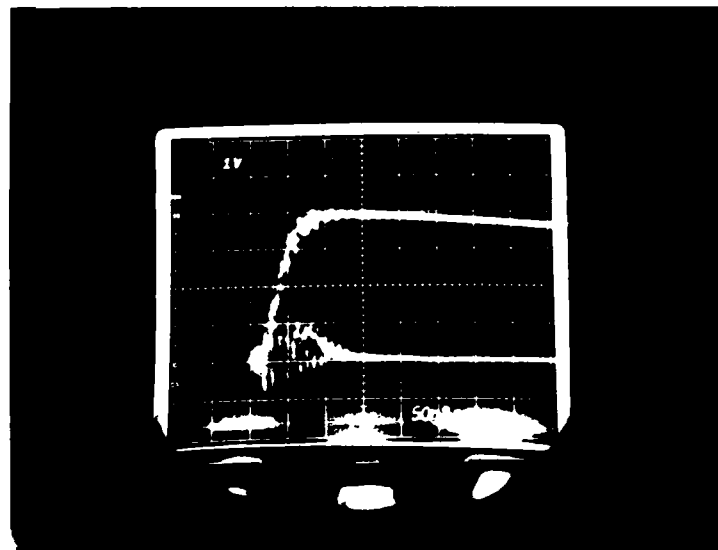
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Date 5-30-85
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 Vertical 1V(1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500
 Data Link
 Comments: 385



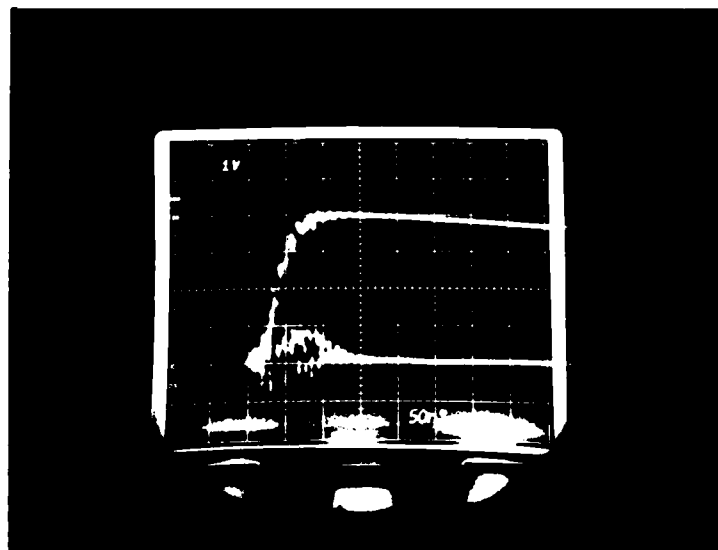
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Date	5-30-85
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Attenuation	20 dB
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Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
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Data Link	
Comments:	386



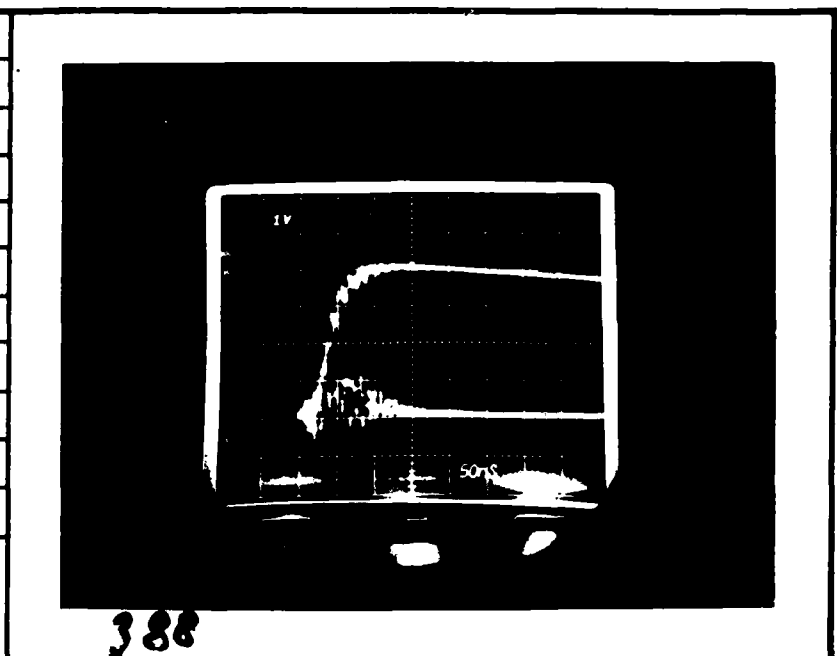
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Date	5-30-85
Test Point	11R-CL-1/10-C
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Attenuation	20 dB
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Horizontal	ns/div 2
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Data Link	
Comments:	387

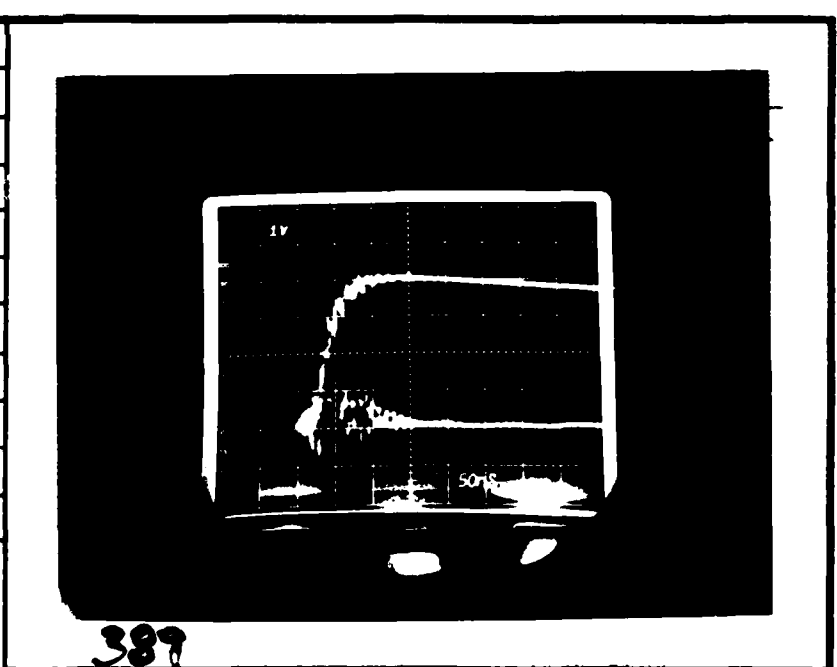


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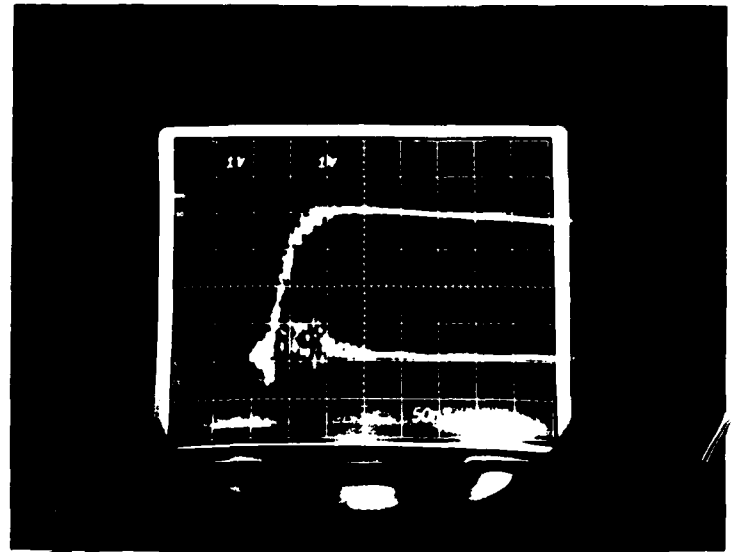
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Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500
Data Link	
Comments:	388



Date	5-30-85
Test Point	11R-CL-110-D
Amplification	dB
Attenuation	20 dB
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Vertical	ns/div 2
Configuration	
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Data Link	
Comments:	389

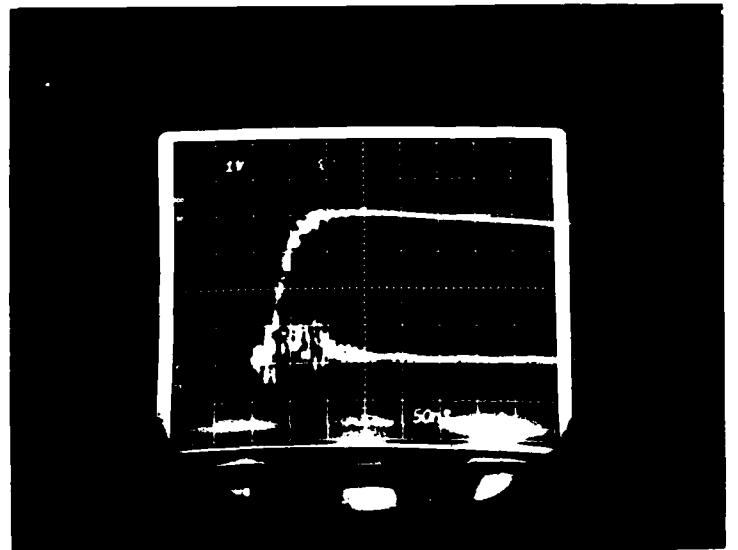


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390

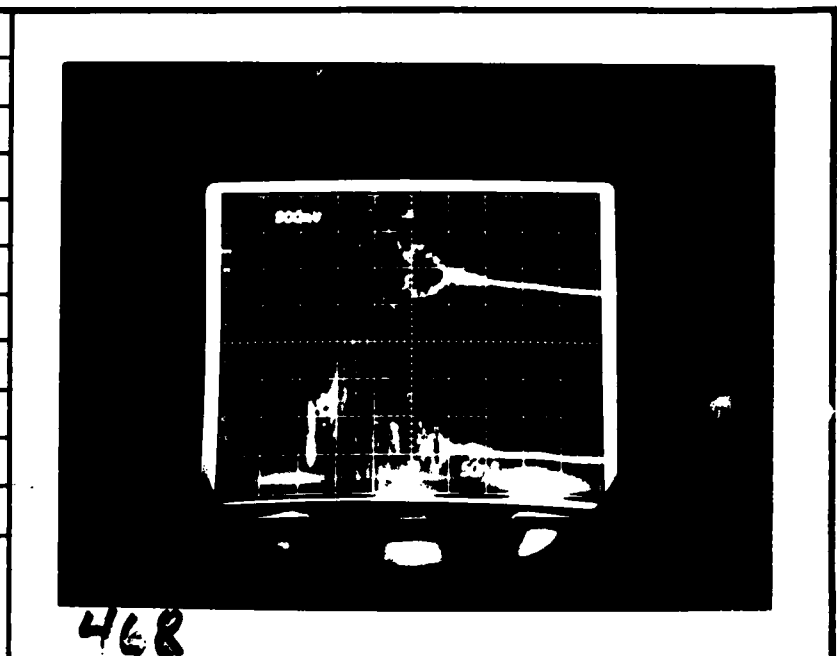
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Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	391



391

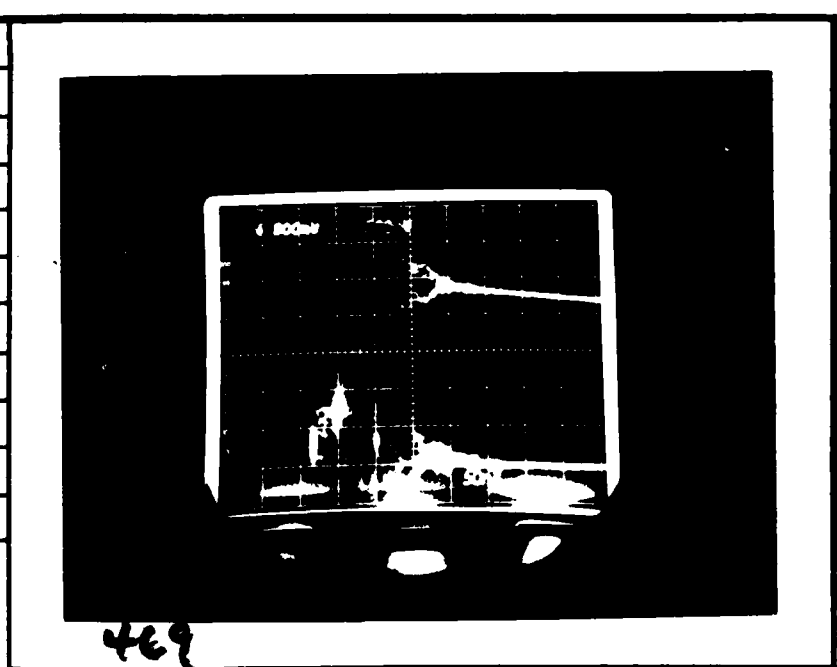
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Test Point	12-CL-1/10-φ
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Attenuation	20 dB
Horizontal	50 ns/div 1
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Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	
Comments:	468

COMMON LEAD

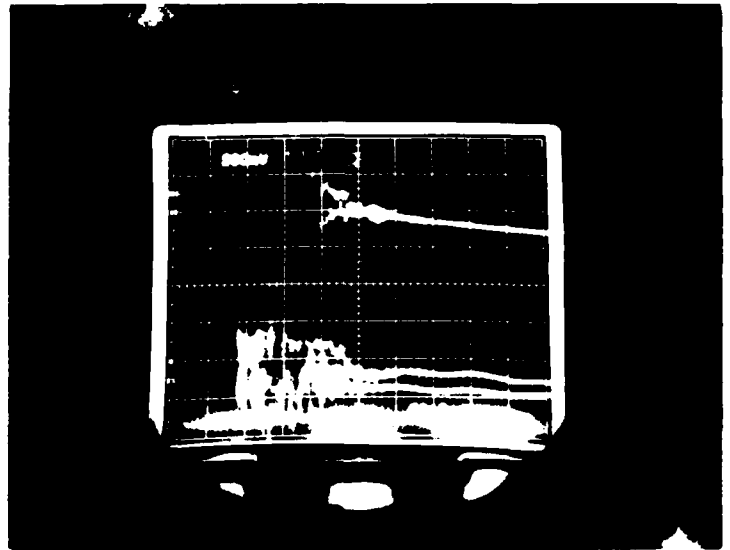


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Attenuation	20 dB
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Vertical	.5V(950V) mv /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	
Comments:	469

COMMON LEAD



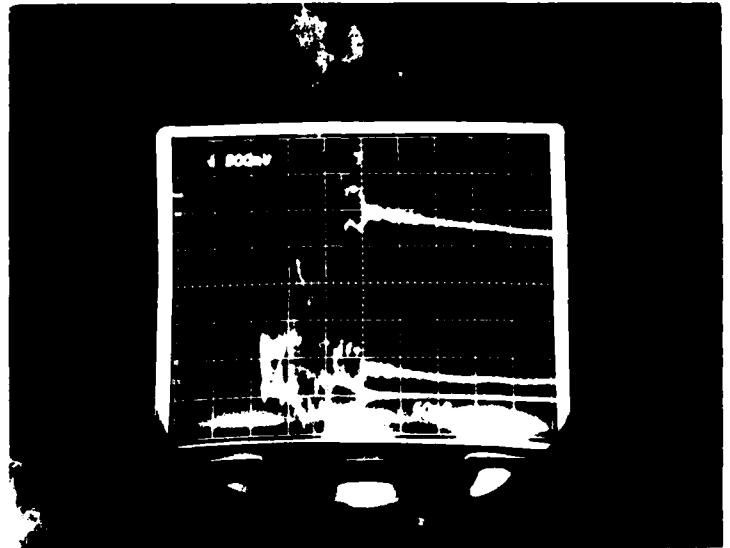
Date	5-30-86
Test Point	12-CL-110-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	468



468

"HOT" LEAD

Date	5-30-85
Test Point	12R-CL-110-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	469

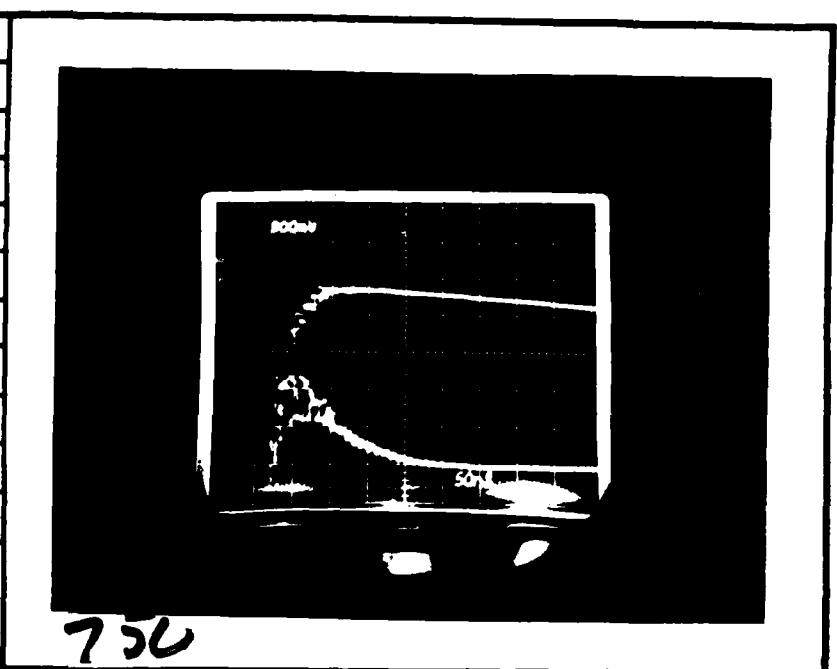


469

"HOT" LEAD

Date	6-4-85
Test Point	13-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	

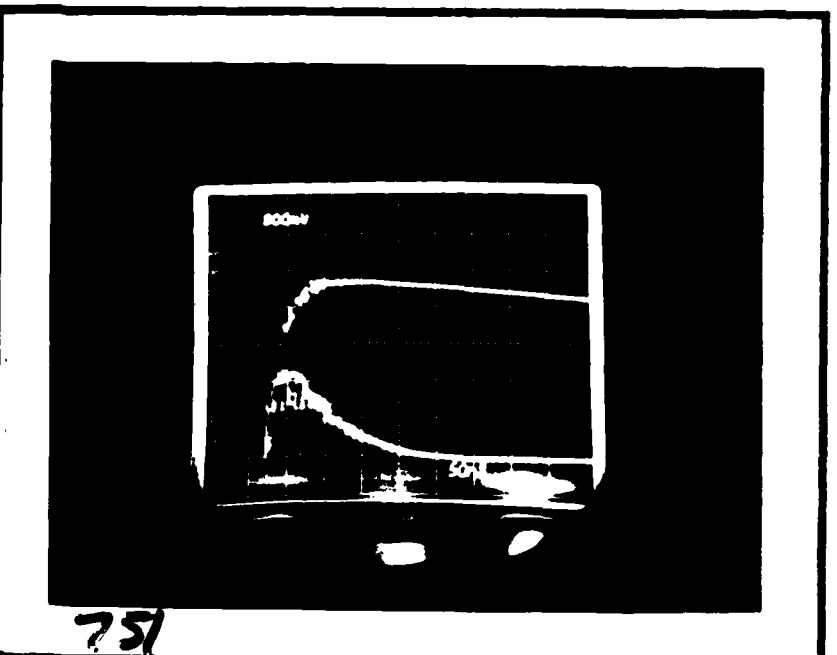
Comments: 750



WHITE LEAD TO \perp

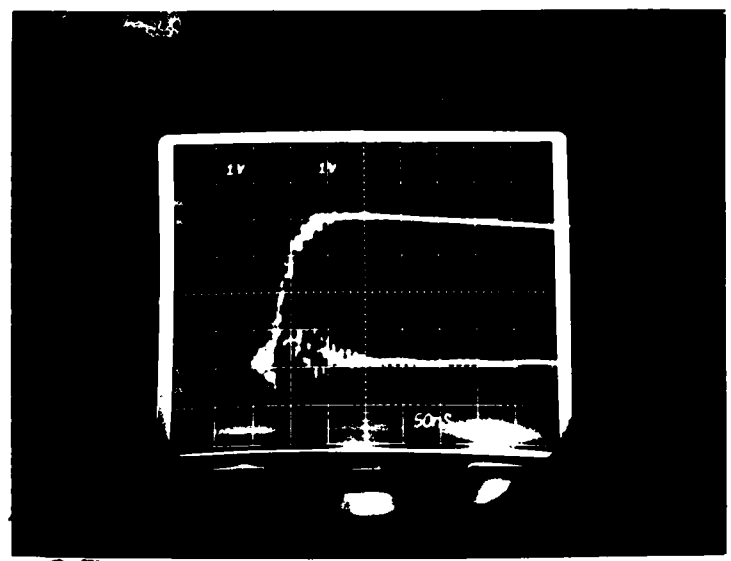
Date	6-4-85
Test Point	13R-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	

Comments: 751



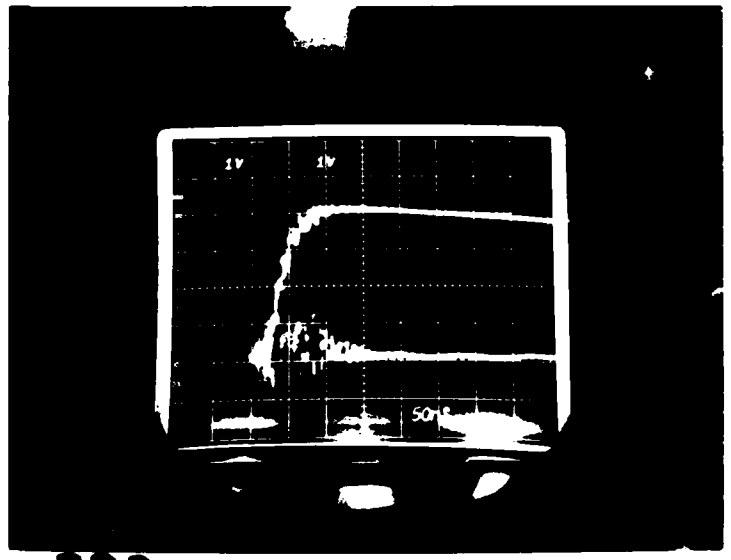
BLACK LEAD TO \perp GND

Date	5-30-85
Test Point	15-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	N(1900) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500
Data Link	
Comments:	392



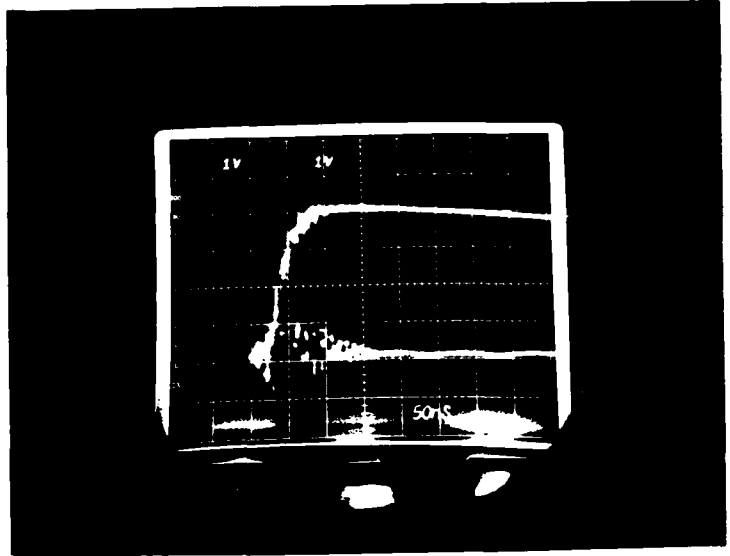
392

Date	5-30-85
Test Point	15R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	V(1900) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500
Data Link	
Comments:	393



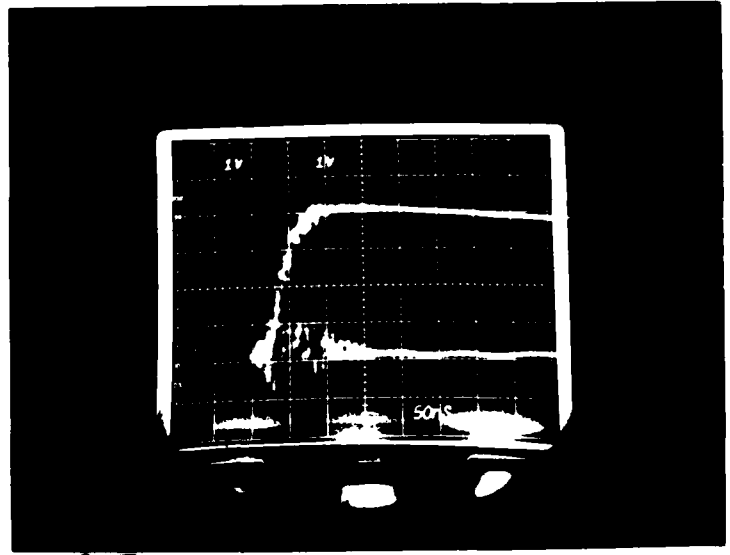
393

Date	5-30-85
Test Point	15-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500
Data Link	
Comments:	394



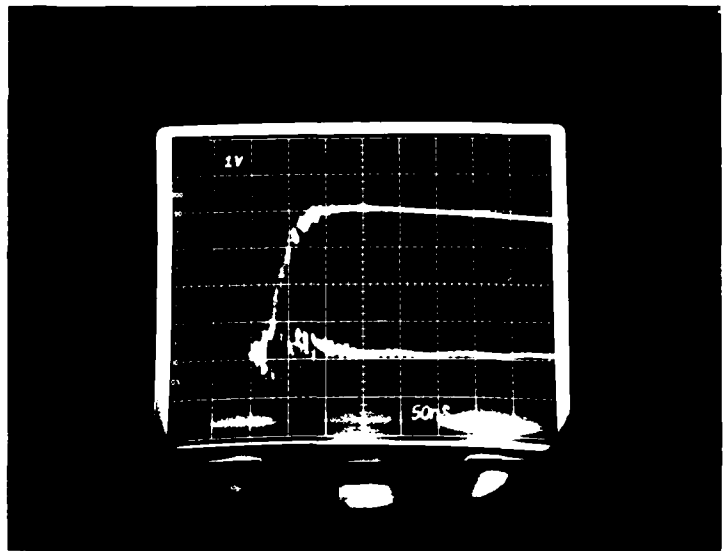
394

Date	5-30-85
Test Point	15R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500
Data Link	
Comments:	395



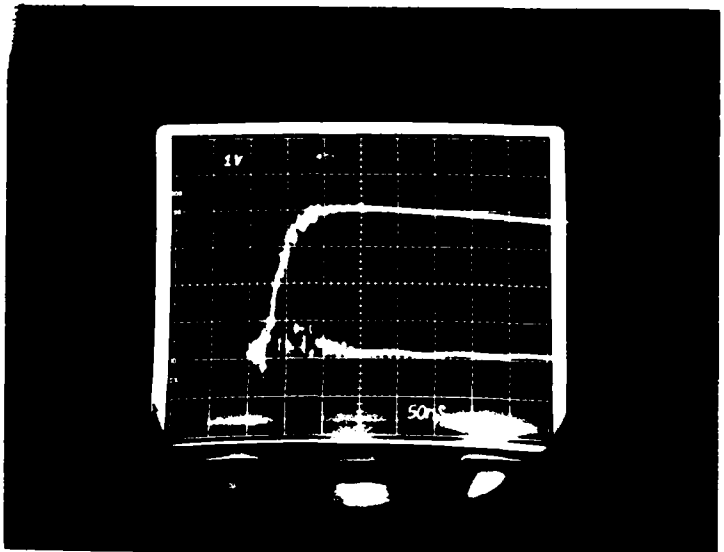
395

Date	5-30-85
Test Point	15-CL-110-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	402



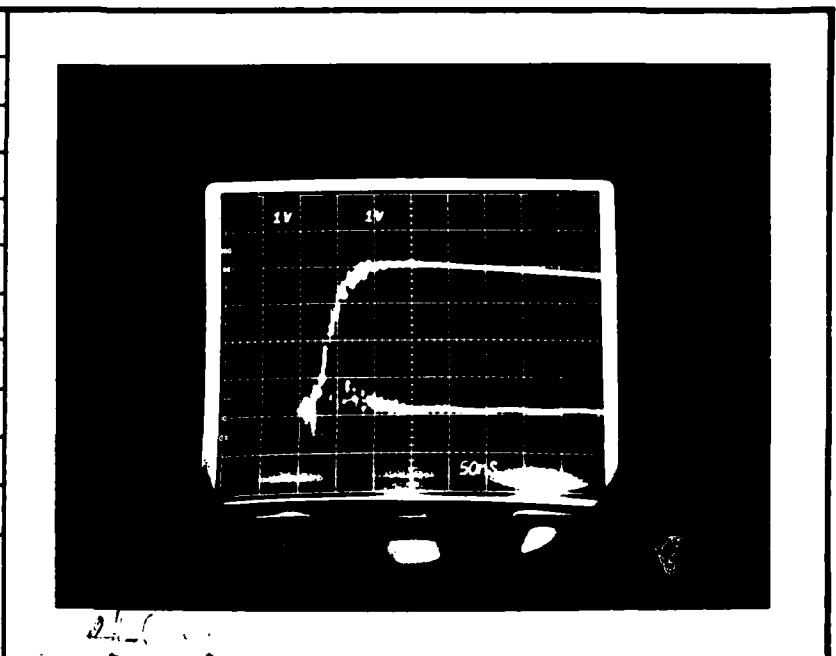
402

Date	5-30-85
Test Point	15R-CL-110-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	403

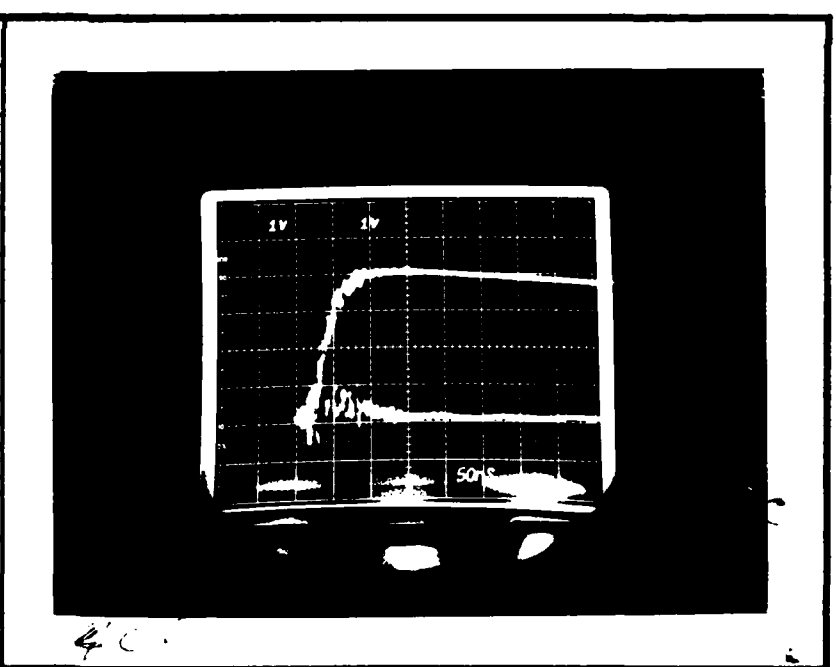


403

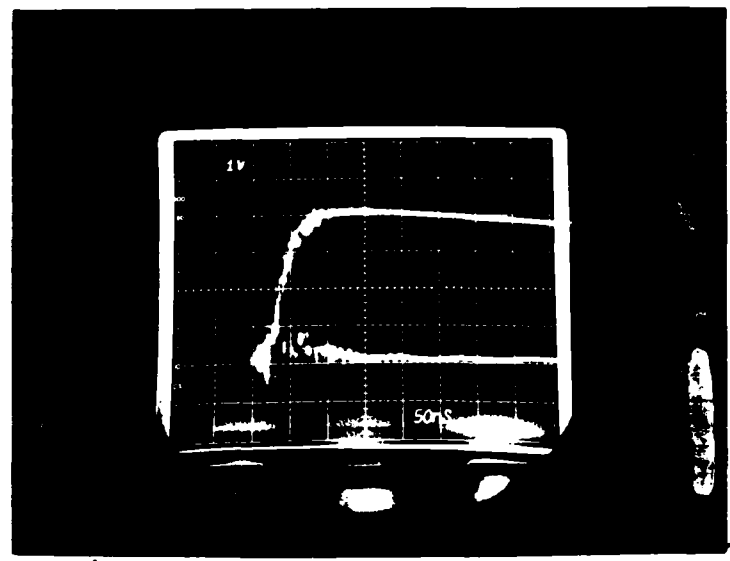
Date	5-30-85
Test Point	15-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	N(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	404



Date	5-30-85
Test Point	15R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	405

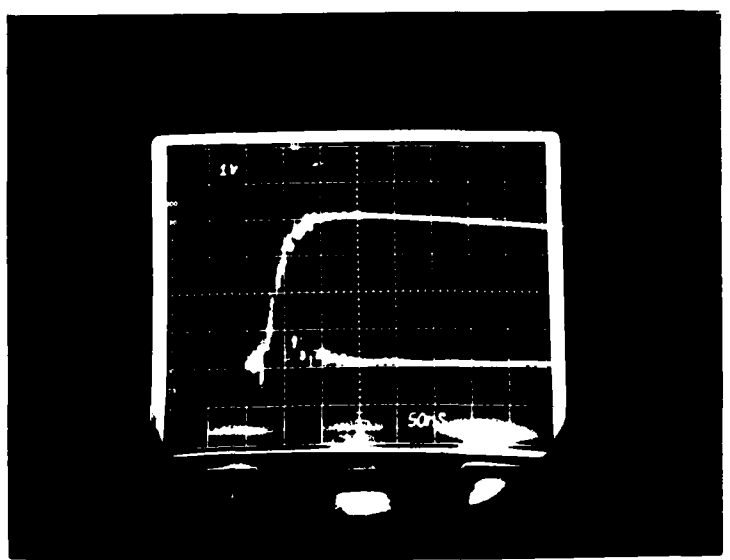


Date	5-30-85
Test Point	15-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	406



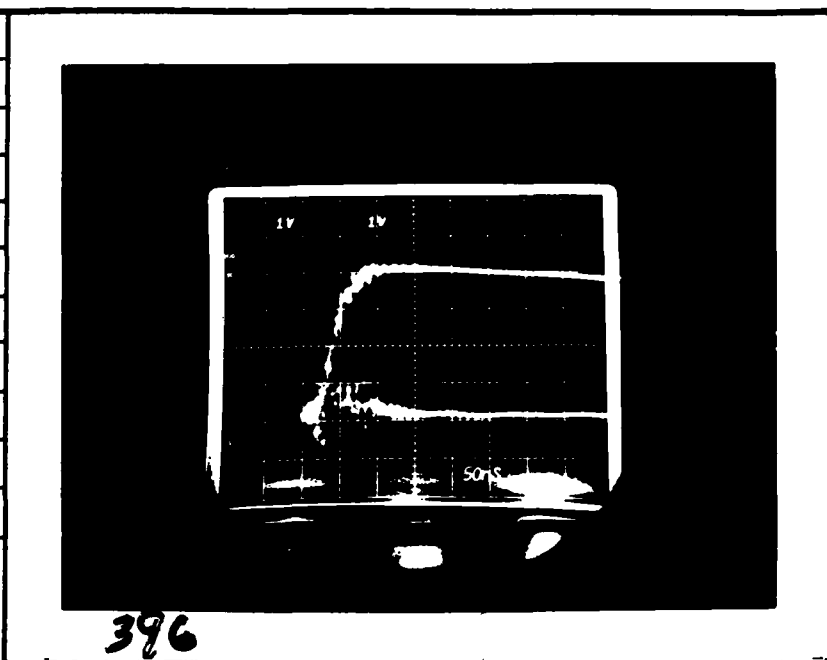
406

Date	5-30-85
Test Point	15R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	407

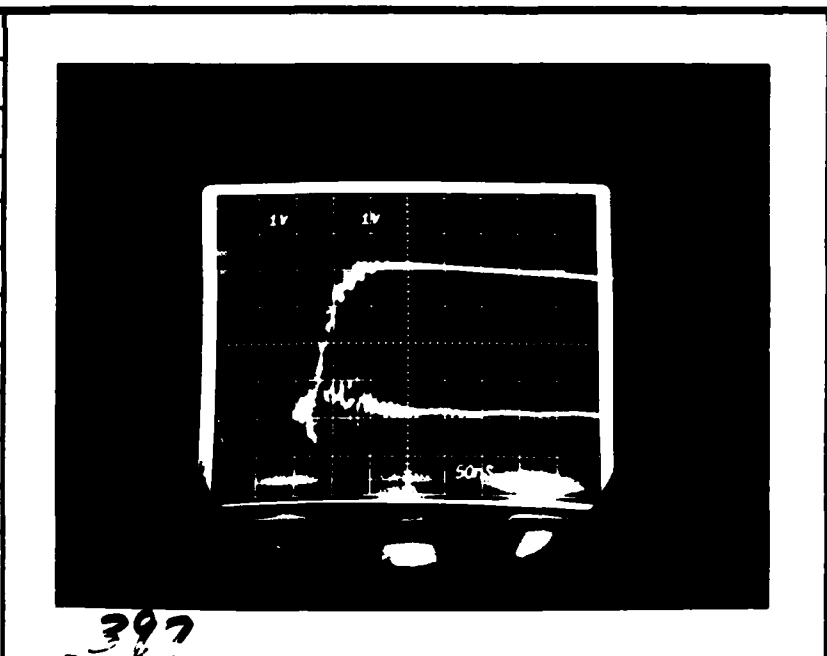


407

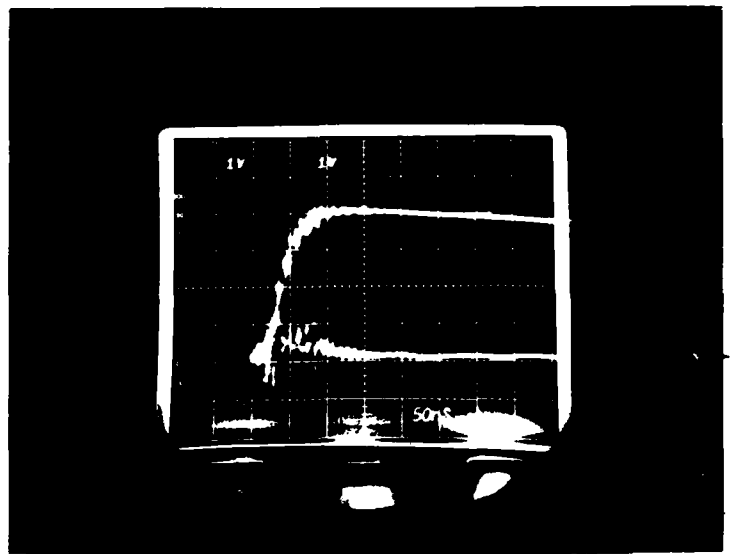
Date	5-30-85
Test Point	17-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	396



Date	5-30-85
Test Point	17R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1700V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	397

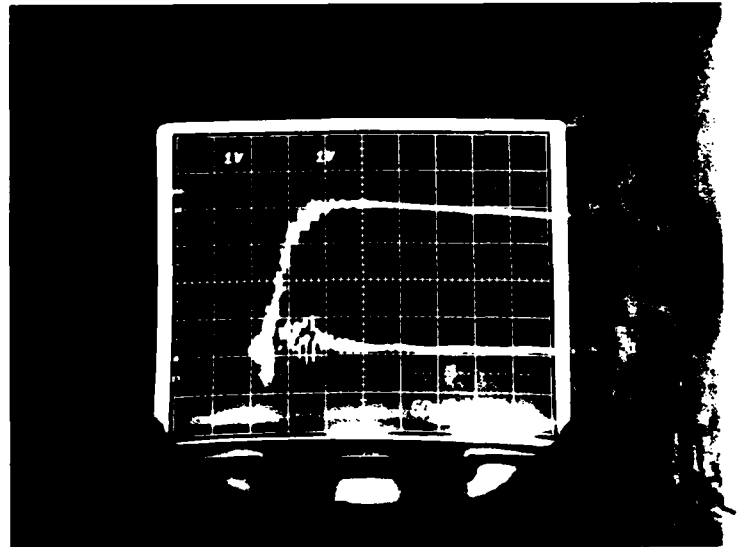


Date	5-30-85
Test Point	17-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500
Data Link	
Comments:	398



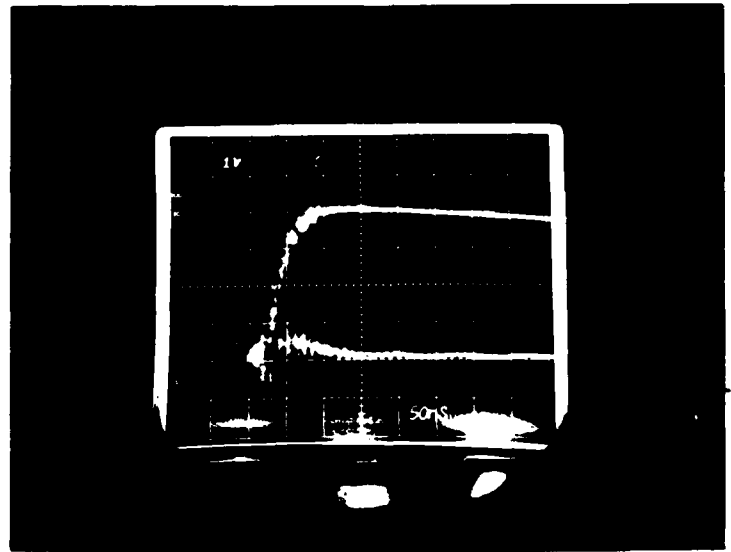
398

Date	5-30-85
Test Point	17R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500
Data Link	
Comments:	399

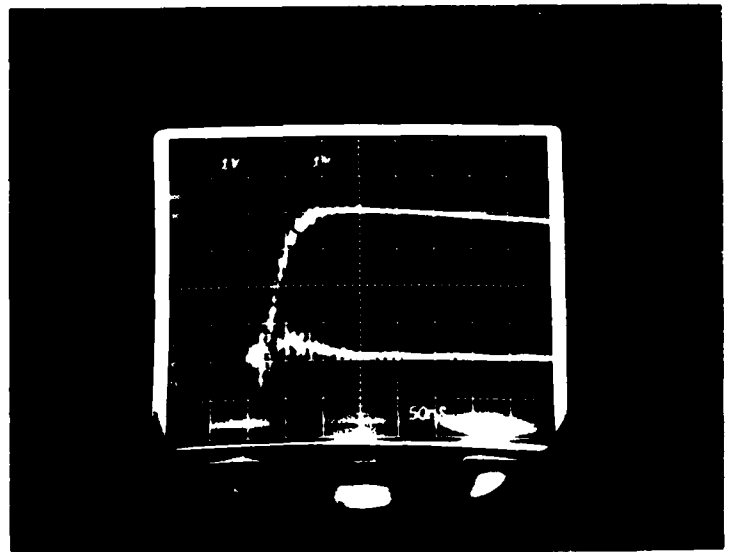


399

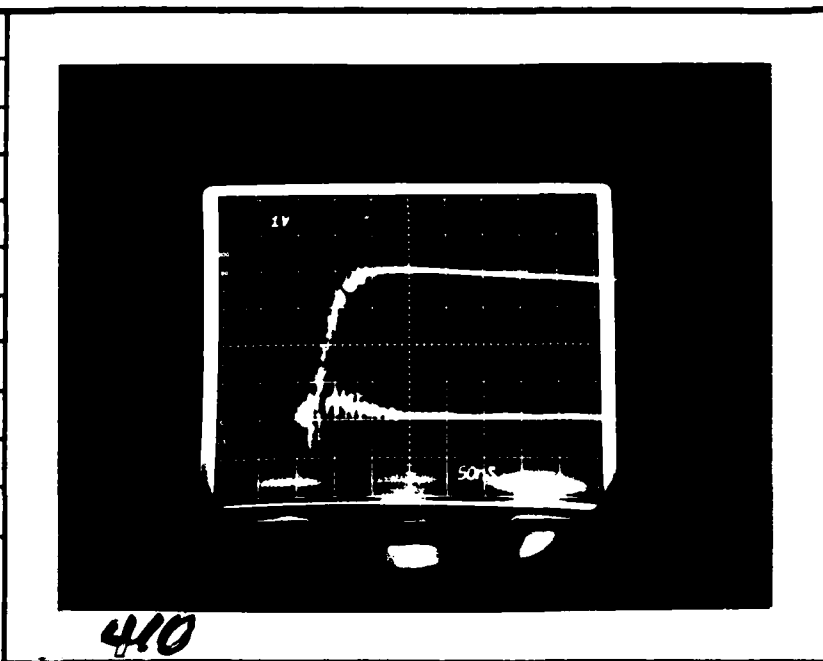
Date	5-30-85
Test Point	17-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	408



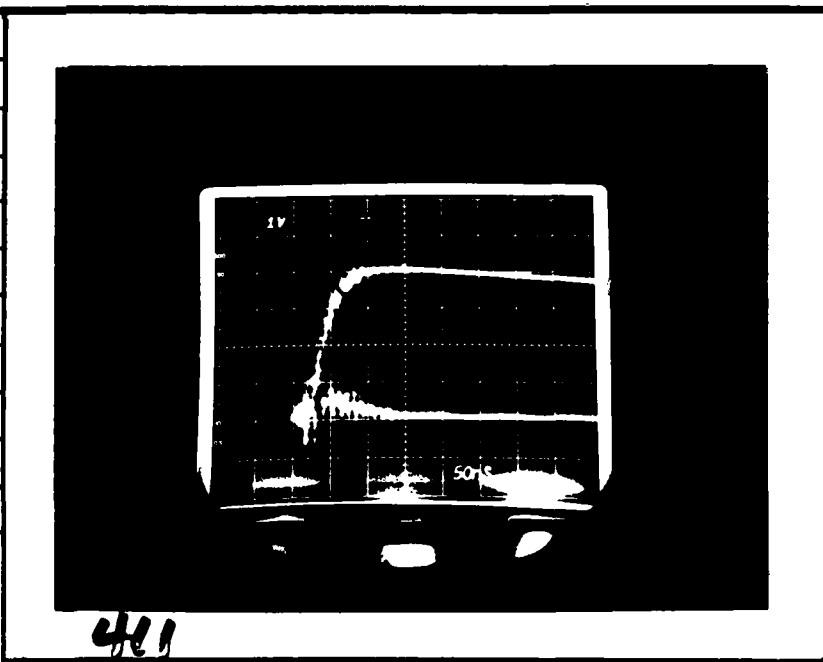
Date	5-30-85
Test Point	17R-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	409



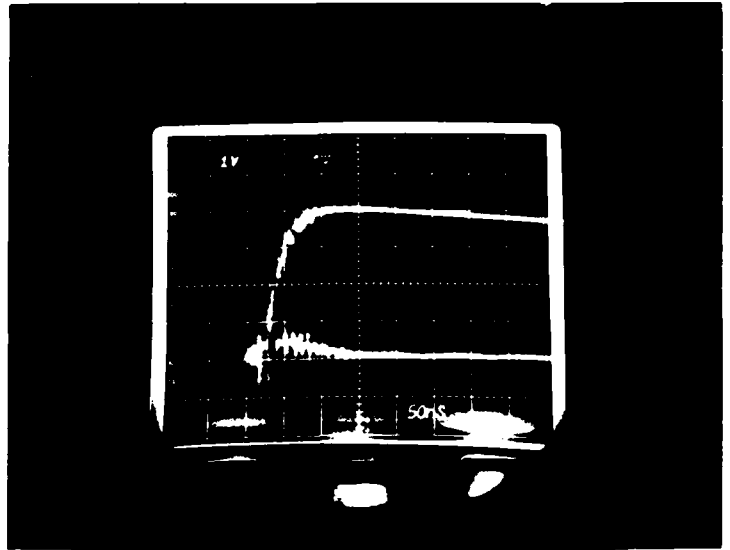
Date	5-30-85
Test Point	17-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	410



Date	5-30-85
Test Point	17R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	411

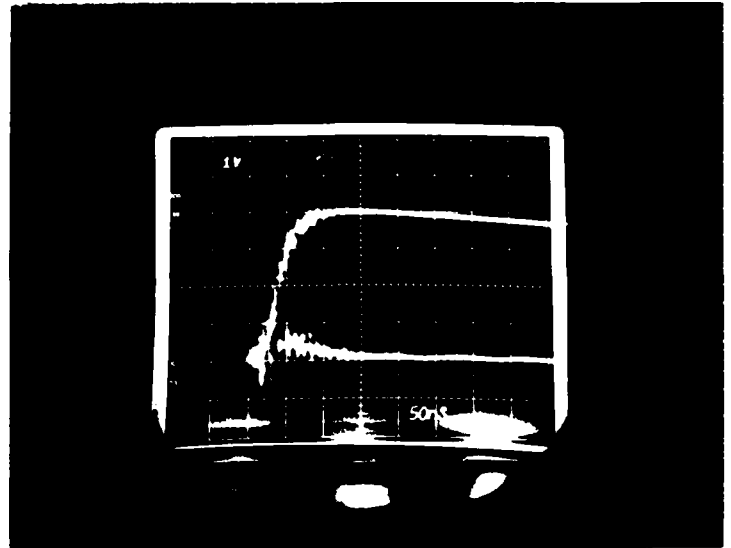


Date	5-30-85
Test Point	17-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	412



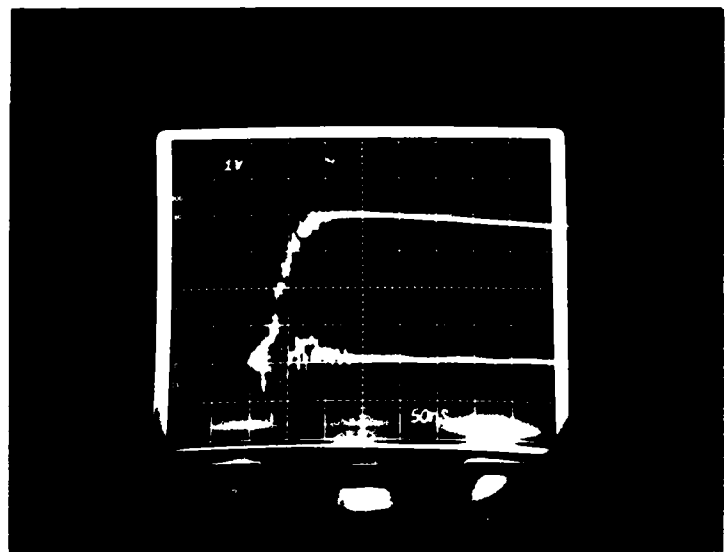
412

Date	5-30-85
Test Point	17R-CL-4/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	413



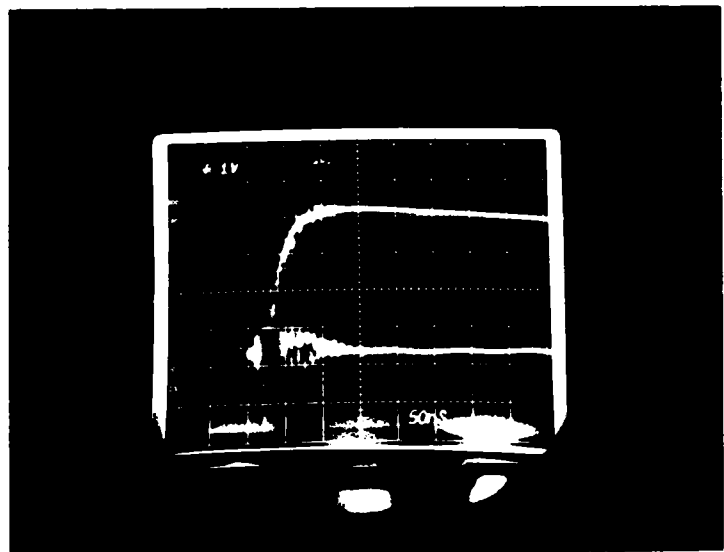
413

Date	5-30-85
Test Point	19-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	414



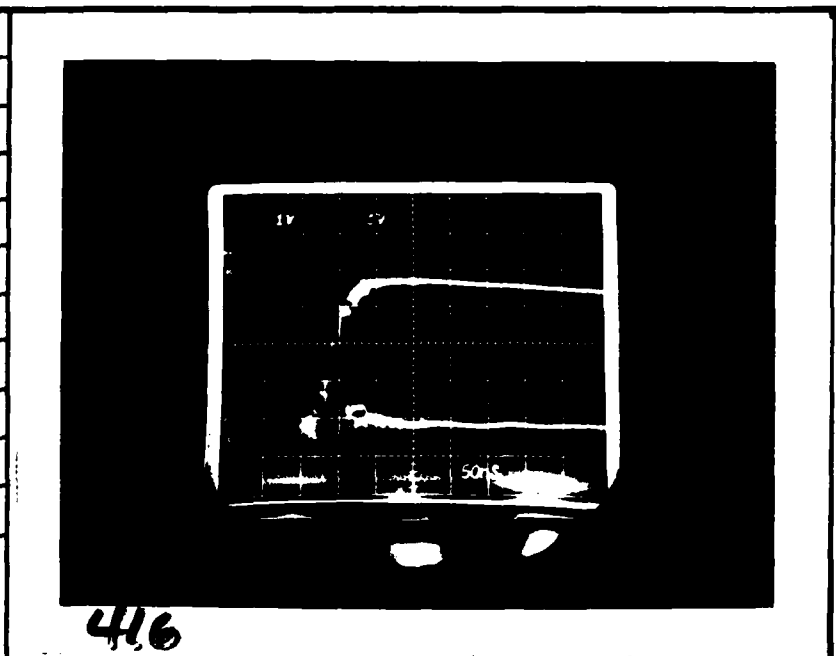
414

Date	5-30-85
Test Point	19R-CL-1/10-A
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:	415

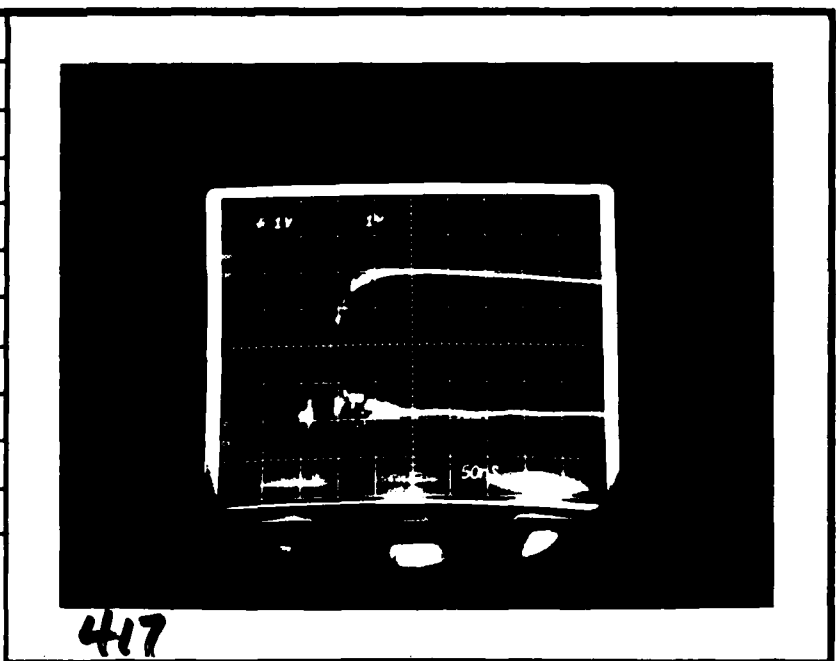


415

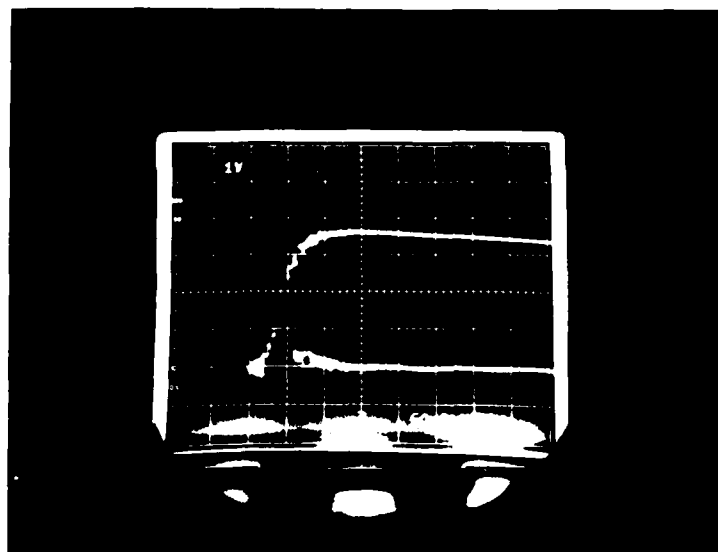
Date	5-30-85
Test Point	19-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) ^{mV} /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	416
	MOVED TRACE (ZERO) DOWN



Date	5-30-85
Test Point	19R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) ^{mV} /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	417

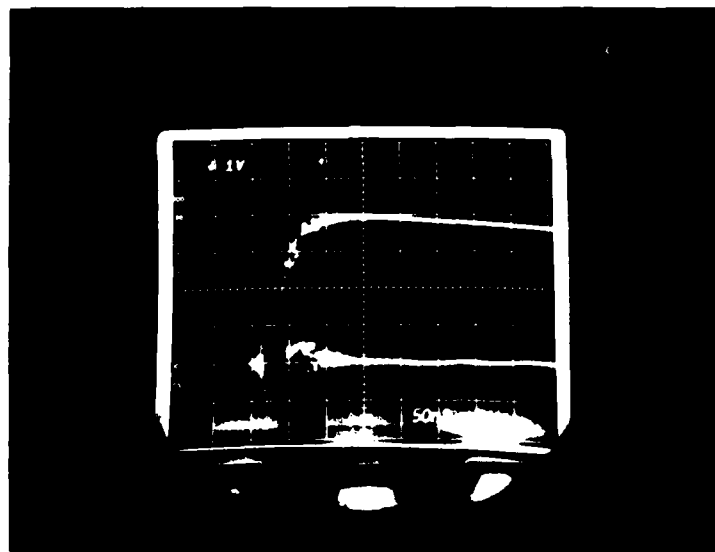


Date	5-30-85
Test Point	19-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+ 4500V
Data Link	
Comments:	418



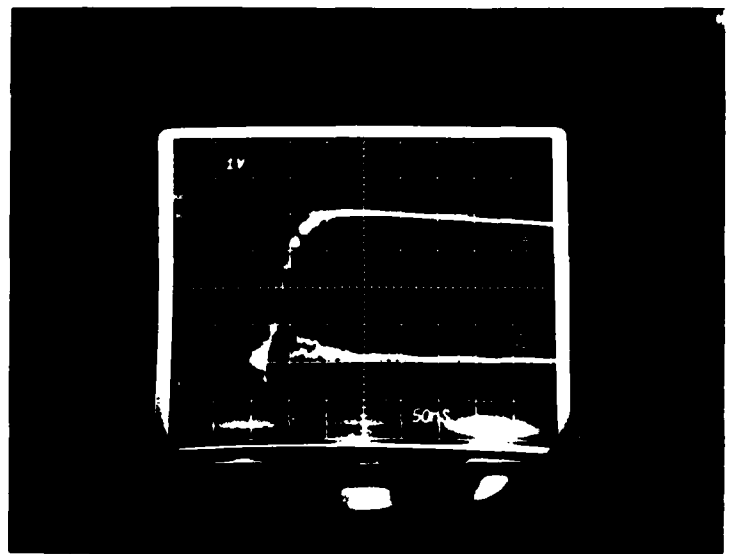
418

Date	5-30-85
Test Point	19R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	- 4500V
Data Link	
Comments:	419



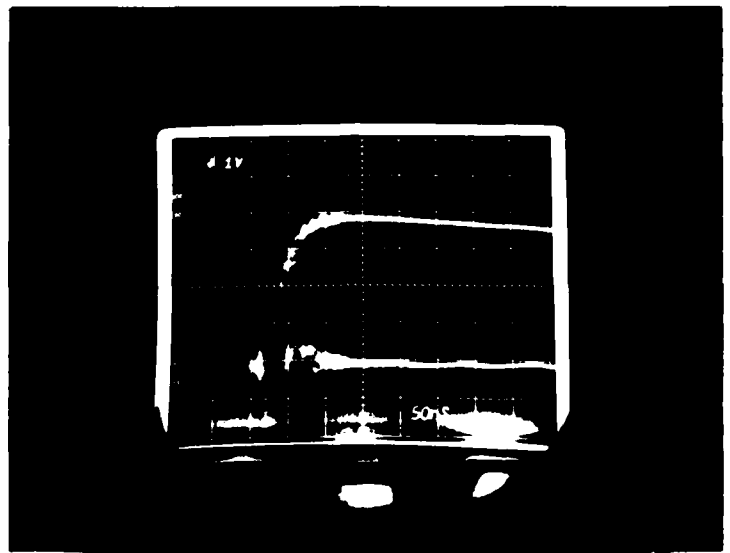
419

Date	5-30-85
Test Point	19-CL-110-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	420



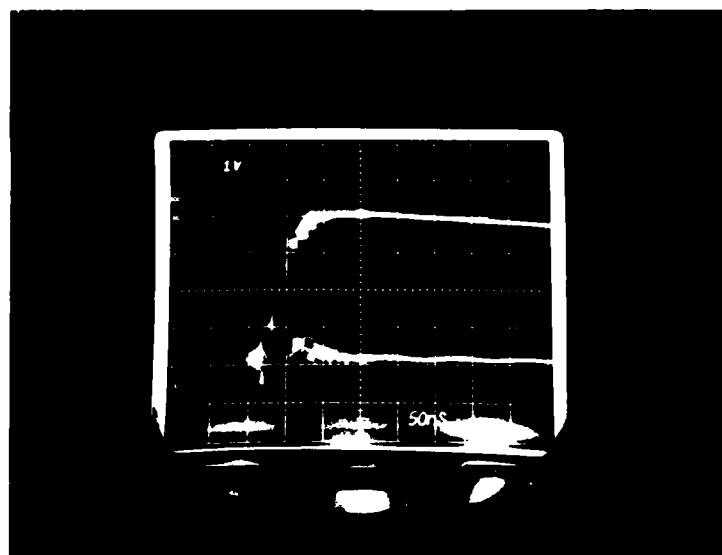
420

Date	5-30-85
Test Point	19R-CL-110-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	421



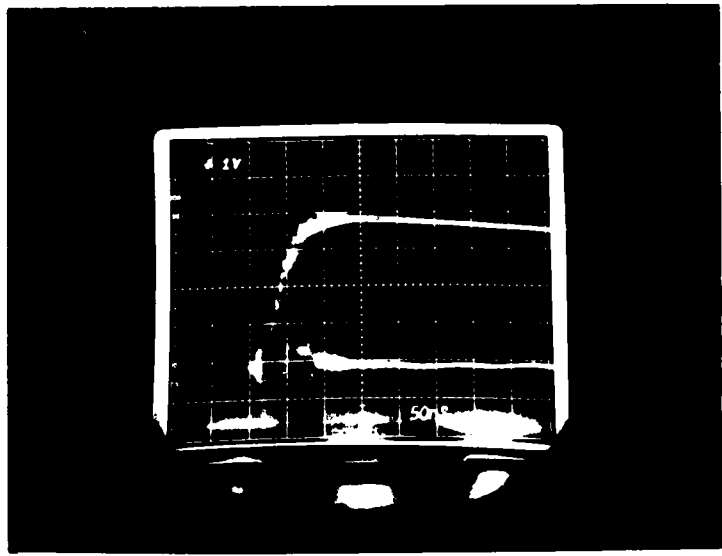
421

Date	5-30-85
Test Point	19-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	426



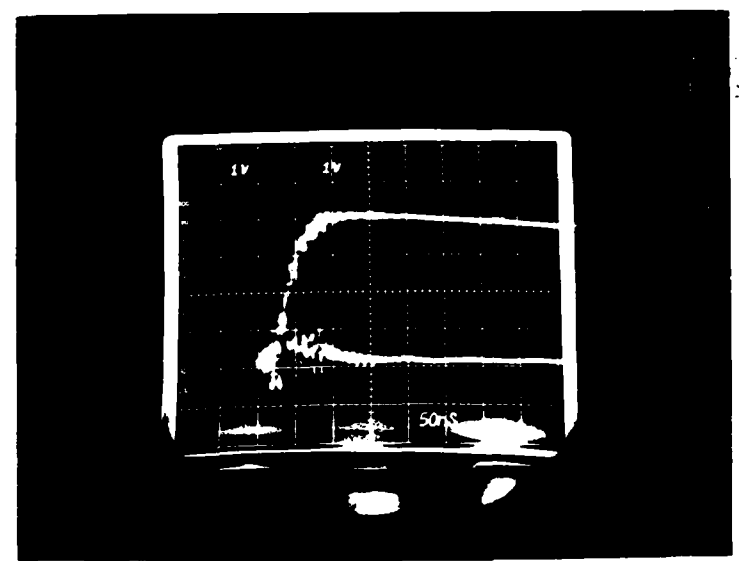
426

Date	5-30-85
Test Point	19R-CL-1/10-E
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:	427



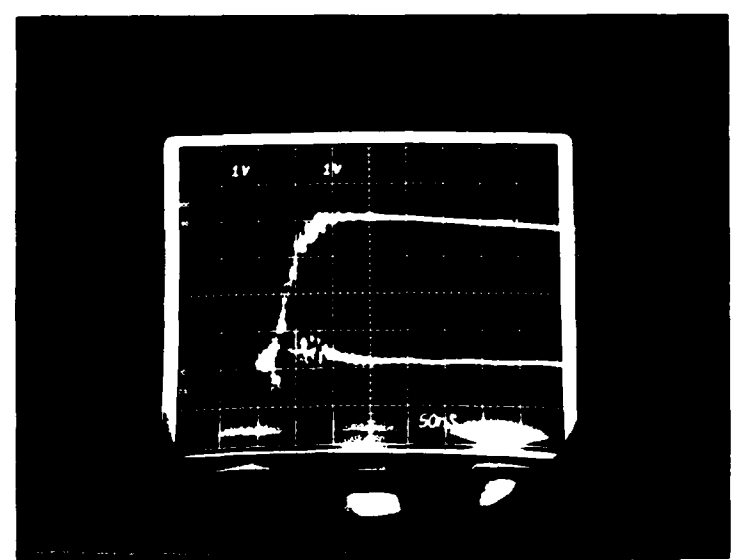
427

Date	5-30-85
Test Point	21-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	400



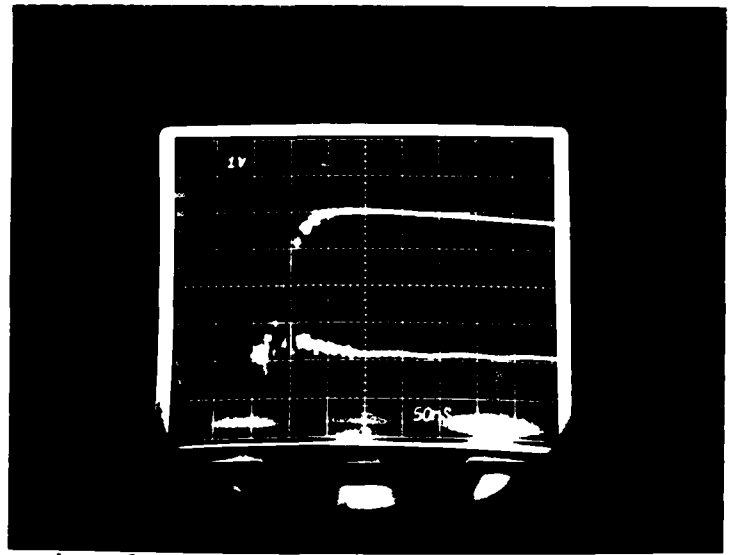
400

Date	5-30-85
Test Point	21R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	401



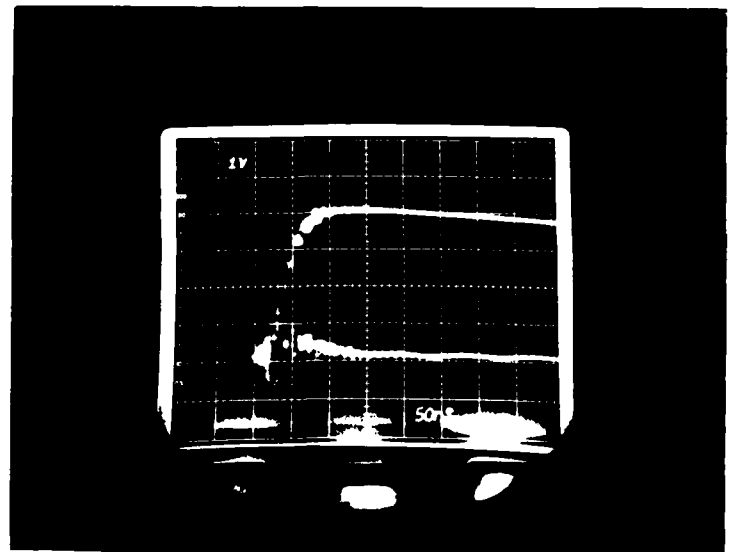
401

Date	5-30-85
Test Point	21-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V)mv/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	422



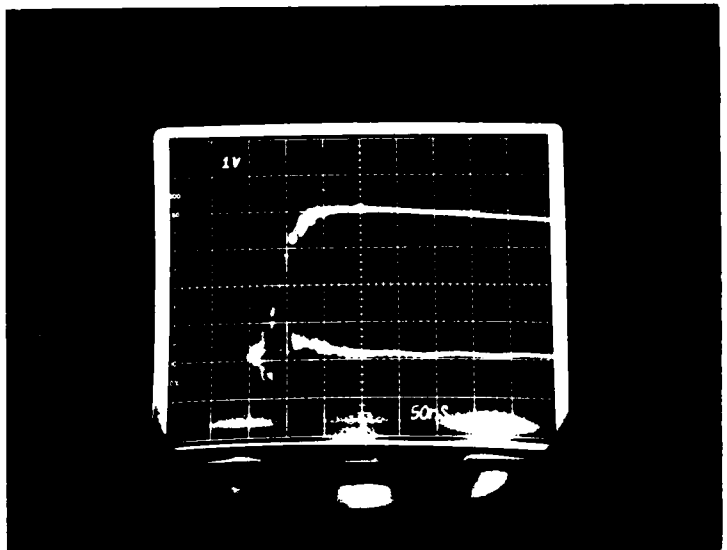
422

Date	5-30-85
Test Point	21R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V)mv/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	423



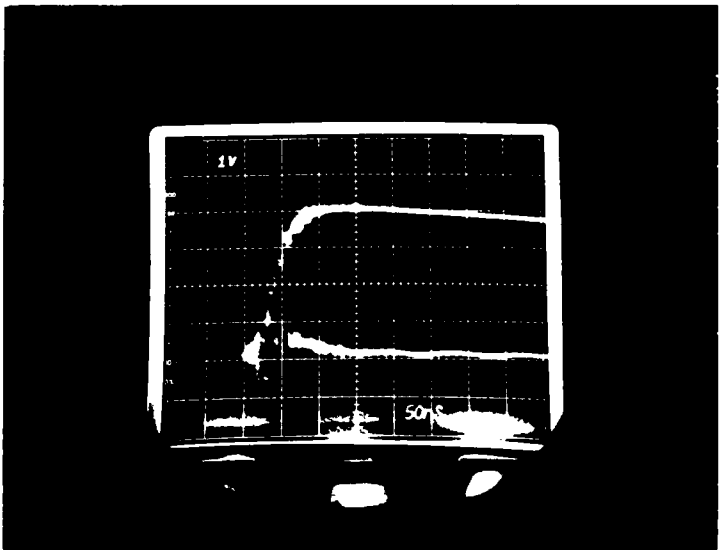
423

Date	5-30-85
Test Point	21-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	424



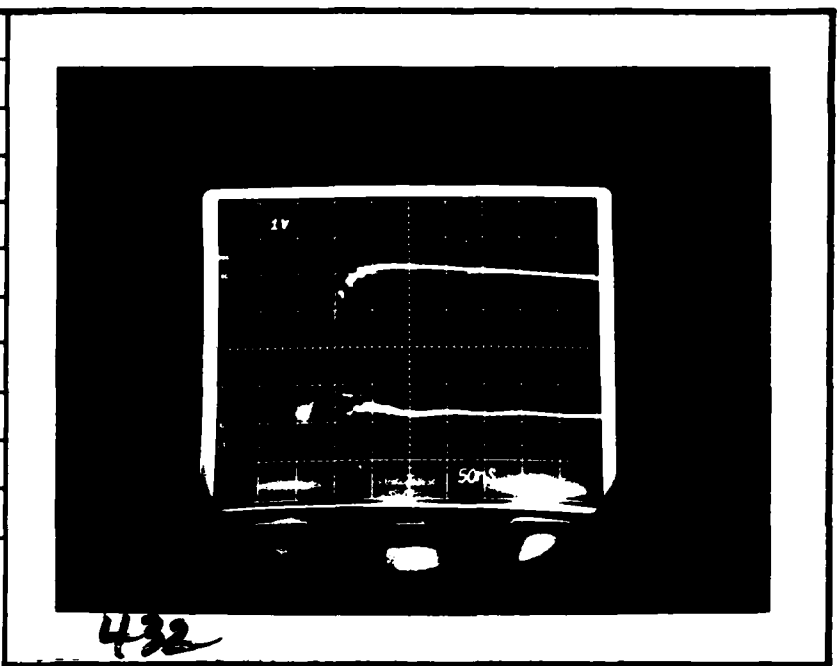
424

Date	5-30-85
Test Point	21-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	425

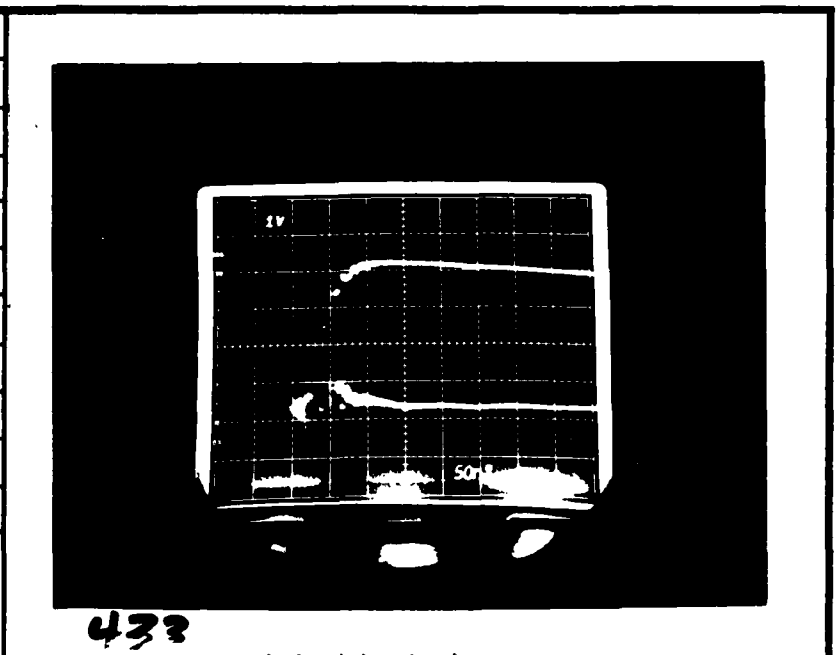


425

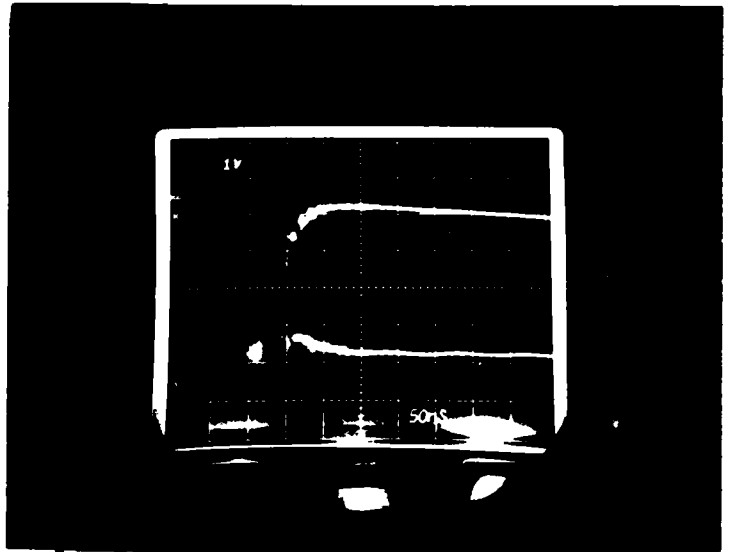
Date	5-30-85
Test Point	21-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	432



Date	5-30-85
Test Point	21R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	433

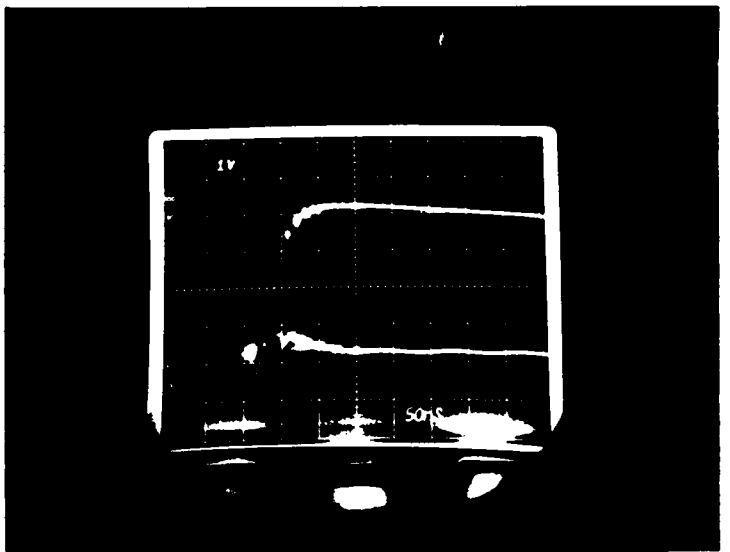


Date	5-30-85
Test Point	21-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	434



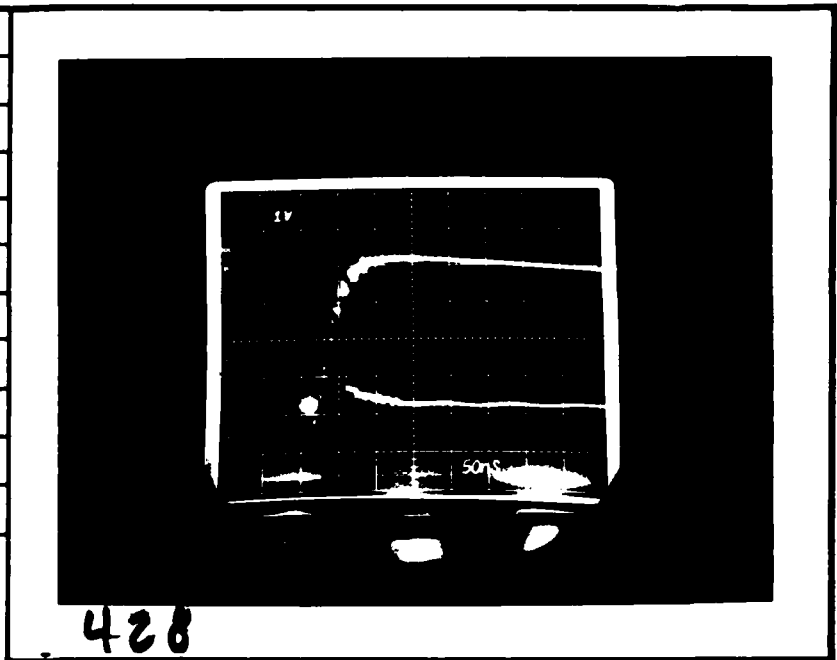
434

Date	5-30-85
Test Point	21R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	435

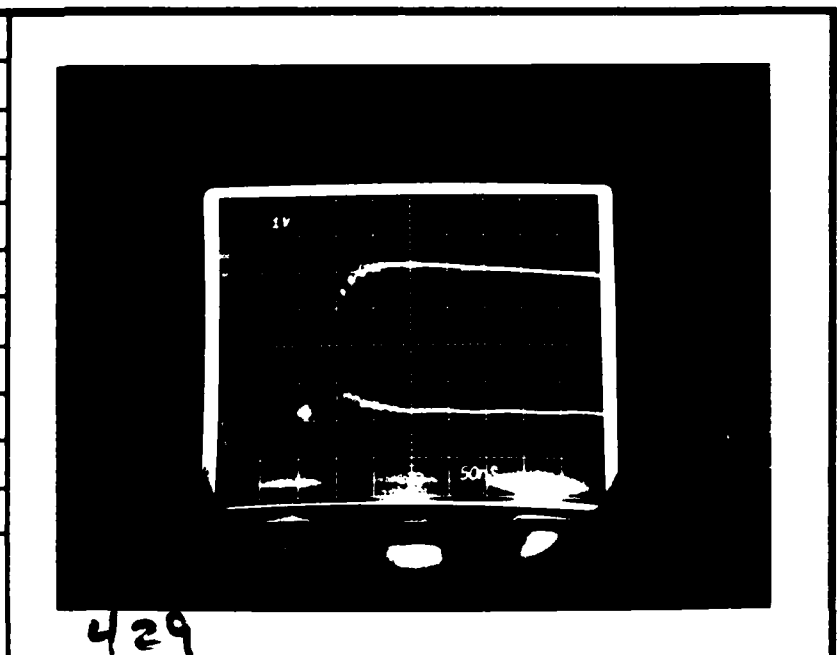


435

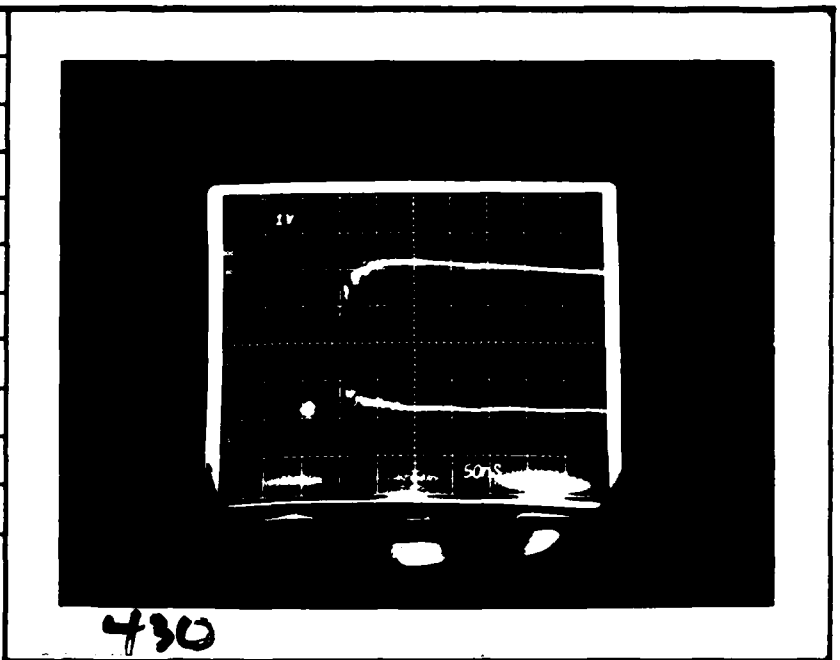
Date	5-30-85
Test Point	23-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	N(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	428



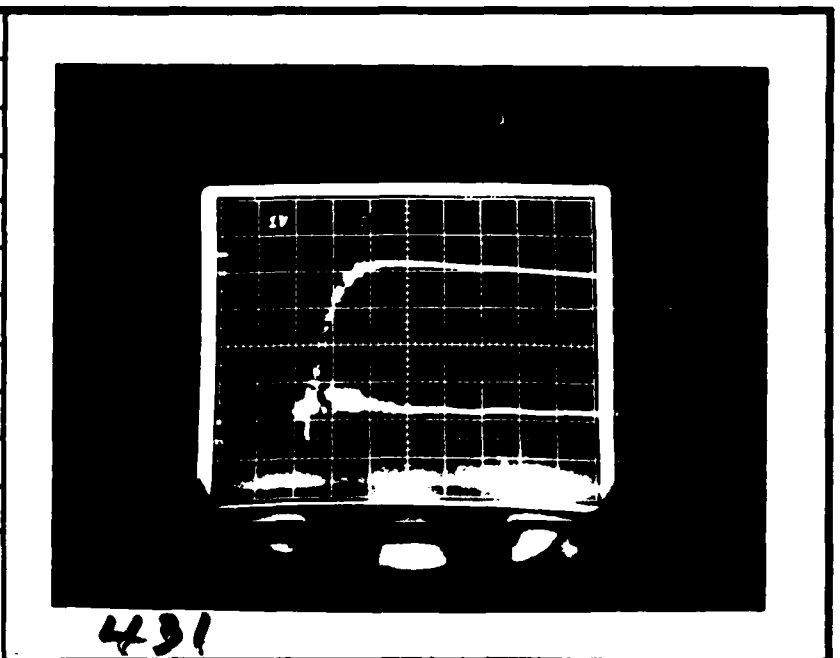
Date	5-30-85
Test Point	23R CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	429



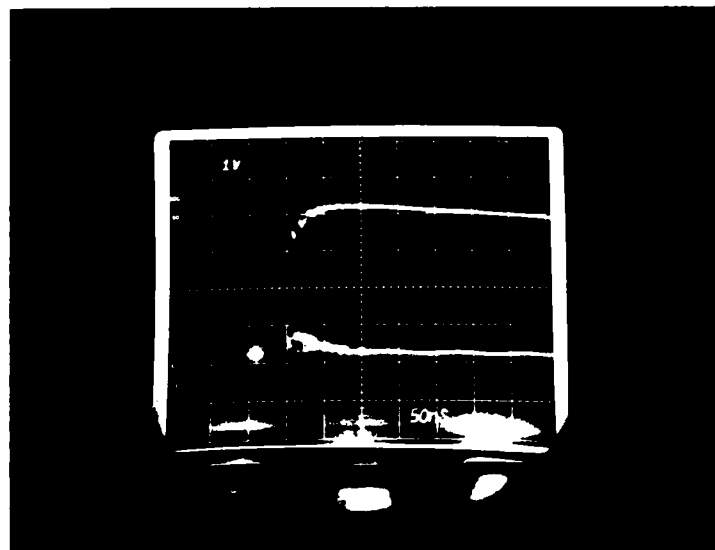
Date	5-30-85
Test Point	23-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	N(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	430



Date	5-30-85
Test Point	23R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	431

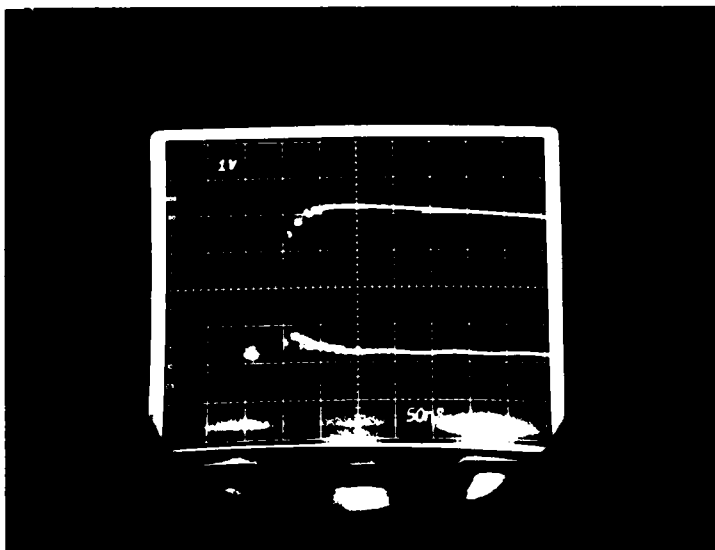


Date	5-30-85
Test Point	23-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	436



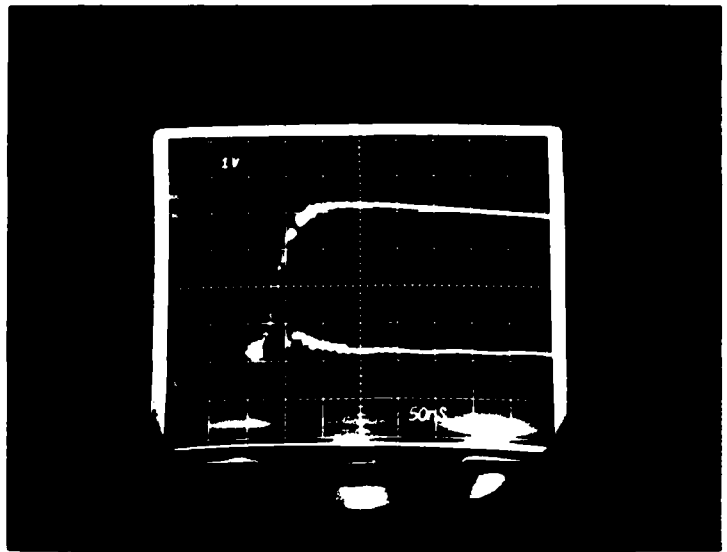
436

Date	5-30-85
Test Point	23R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	437



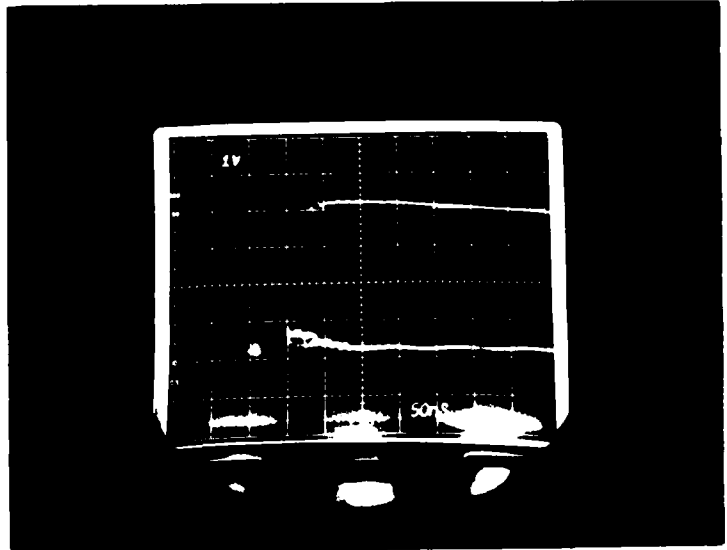
437

Date	5-30-85
Test Point	23-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500
Data Link	
Comments:	438



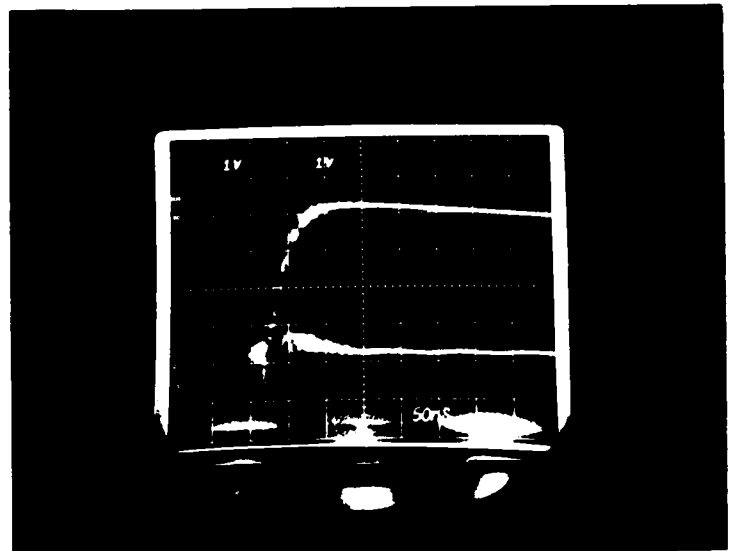
438

Date	5-30-85
Test Point	23R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	439



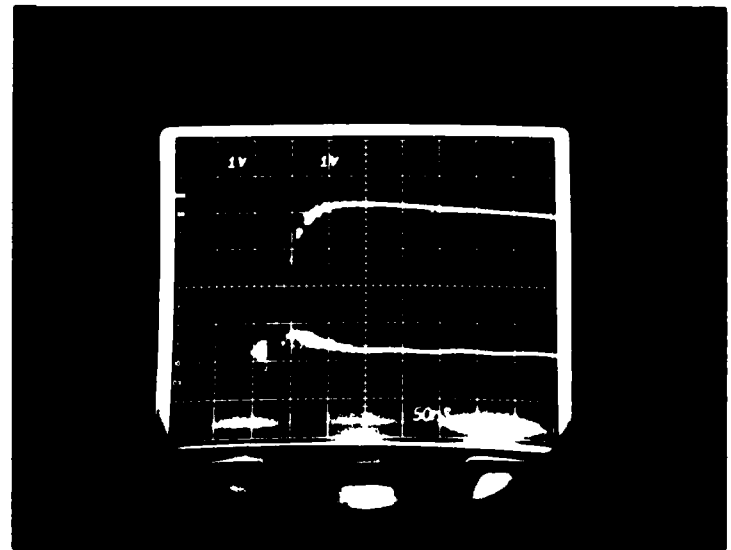
439

Date	5-30-85
Test Point	23-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900)V mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500
Data Link	
Comments:	440



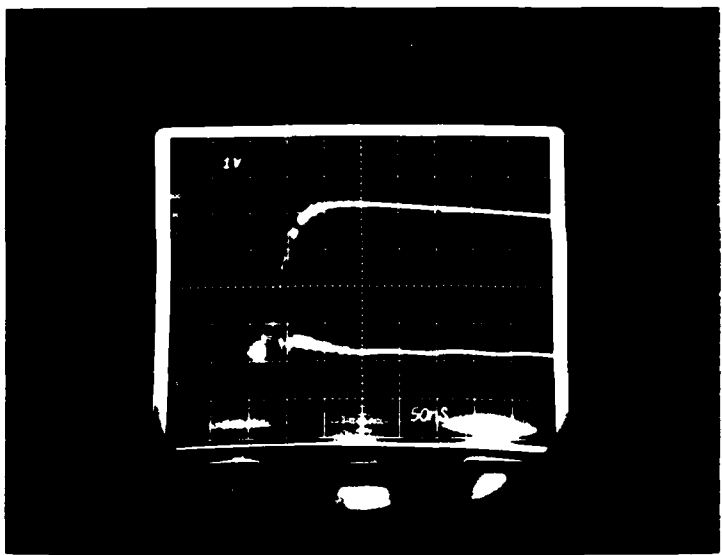
440

Date	5-30-85
Test Point	23R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	1V(1900) ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	441

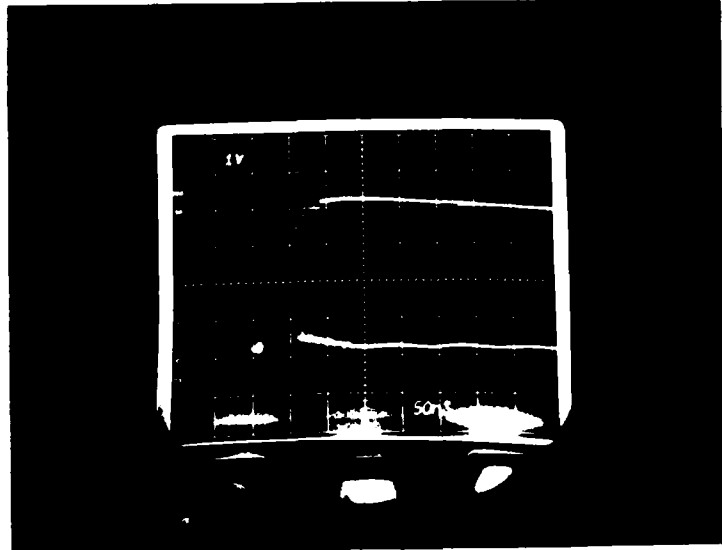


441

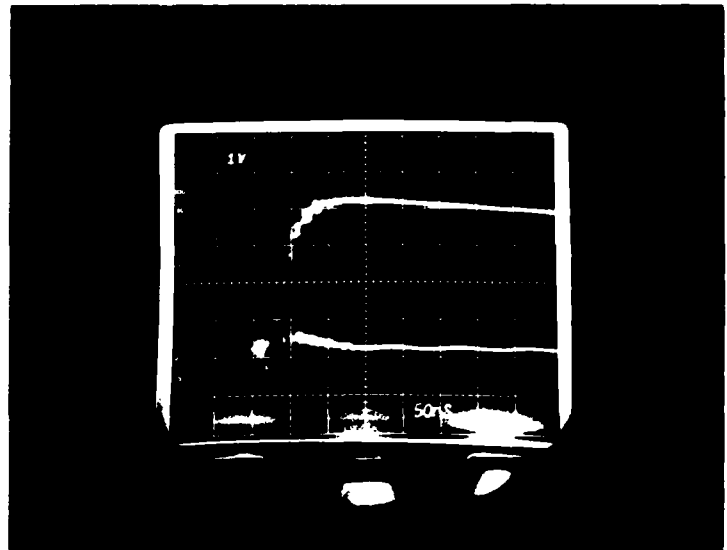
Date	5-30-85
Test Point	32-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	442



Date	5-30-85
Test Point	32R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	443

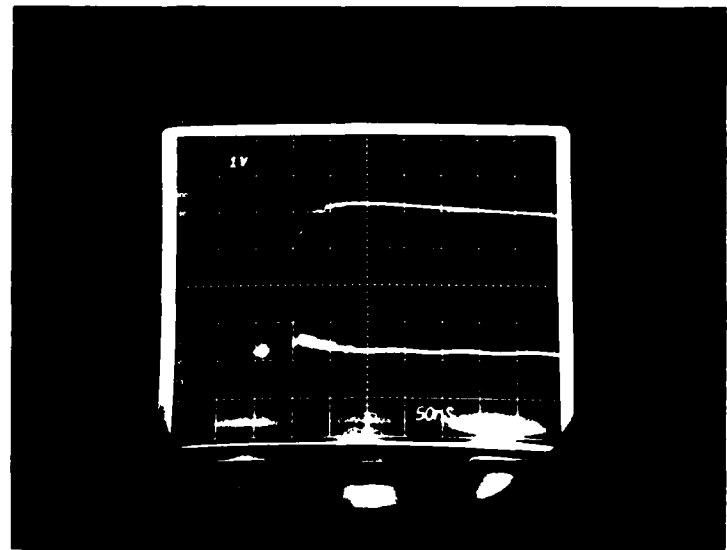


Date	5-30-85
Test Point	32-CL-1/10-13
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500
Data Link	
Comments:	444



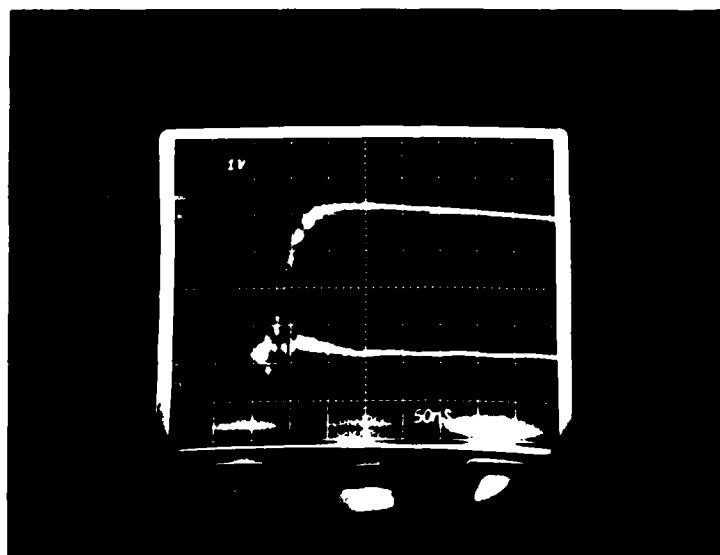
444

Date	5-30-85
Test Point	32R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	445



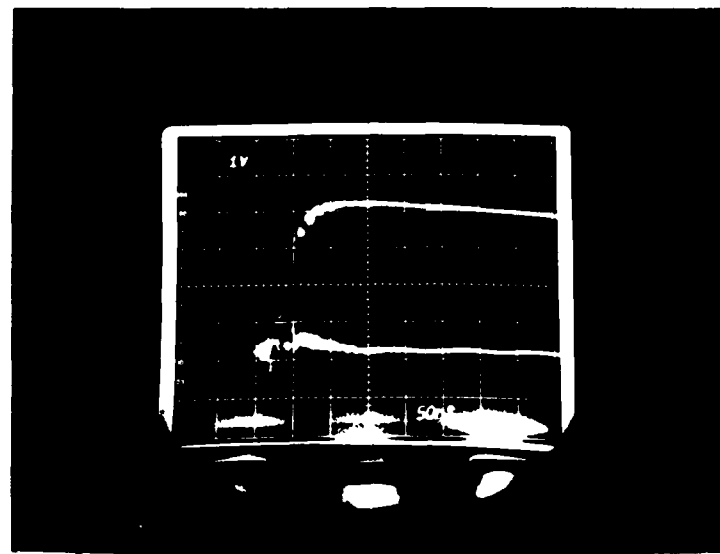
445

Date	5-30-85
Test Point	32-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500
Data Link	
Comments:	446



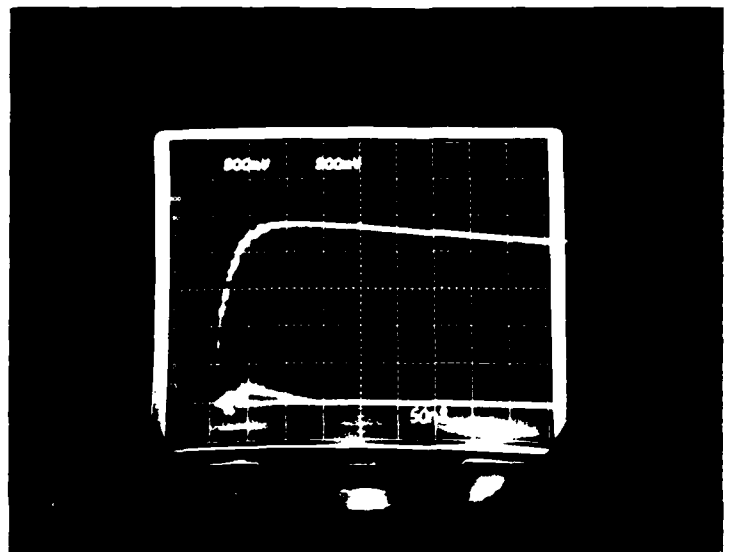
446

Date	5-30-85
Test Point	32R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500
Data Link	
Comments:	447

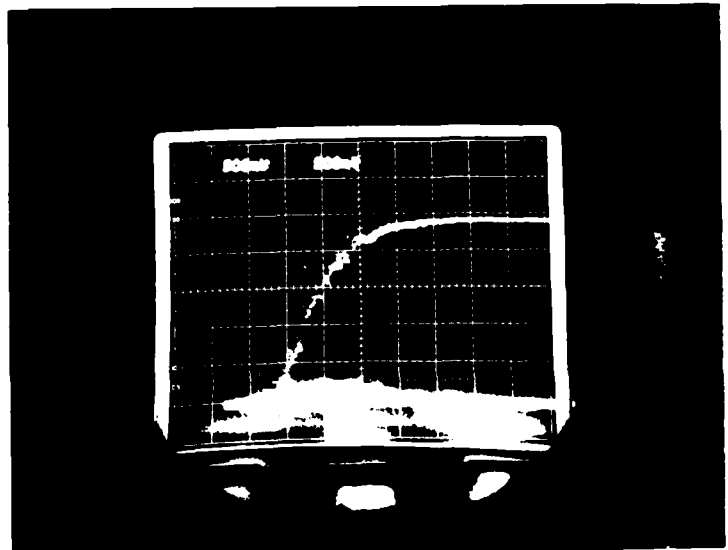


447

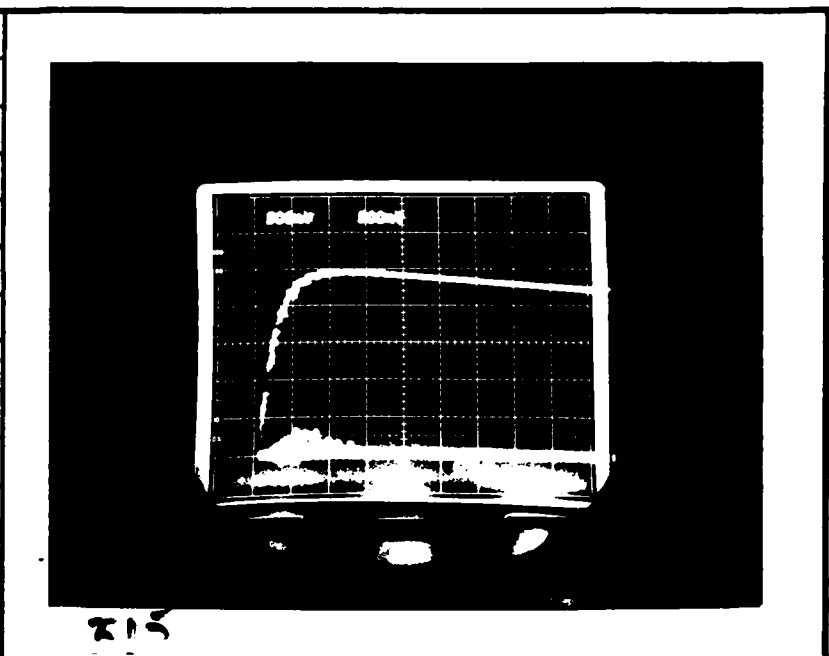
Date	6-3-85
Test Point	32-CL-110-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	513



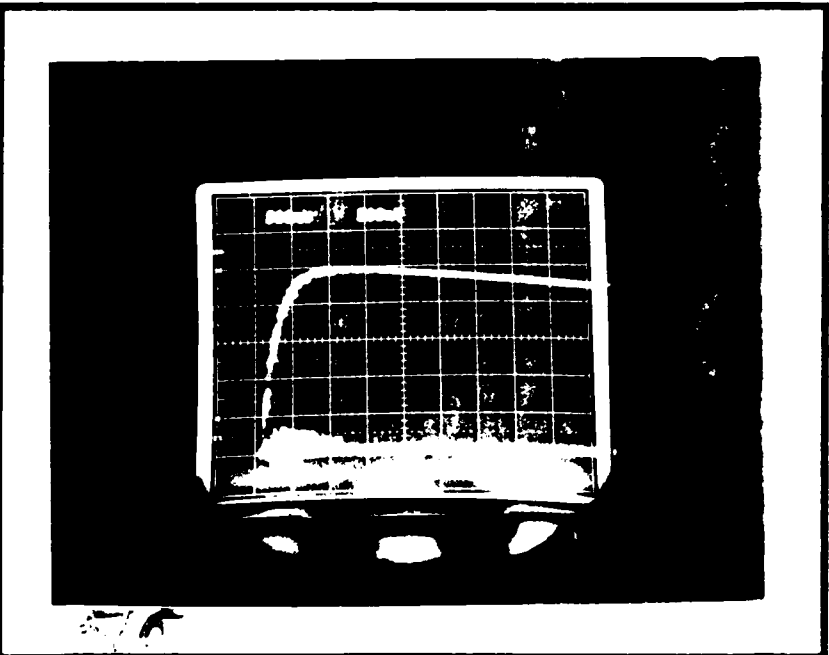
Date	6-3-85
Test Point	32R-CL-110-D
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	514



Date 6-3-85
 Test Point 32-CL-1/10-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(950V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level + 4500V
 Data Link
 Comments: 515

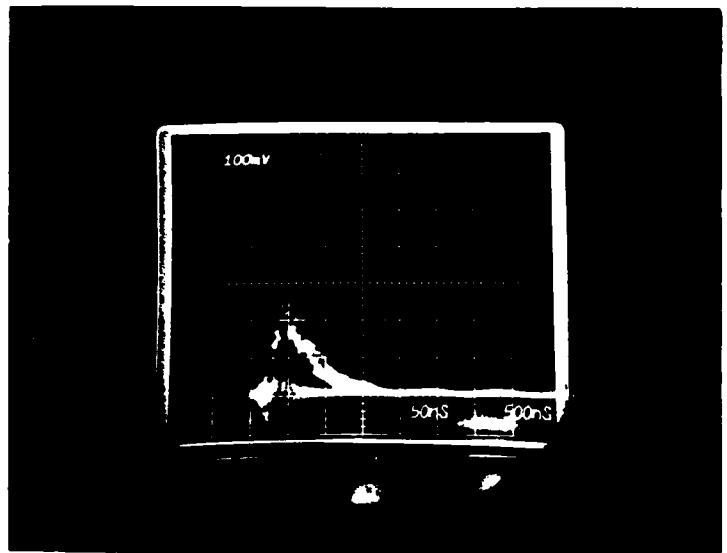


Date 6-3-85
 Test Point 32R-CL-1/10-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(950V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level - 4500V
 Data Link
 Comments:



Date 5-29-85
 Test Point 36-CL-1/10-Ø
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .1V (190V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link

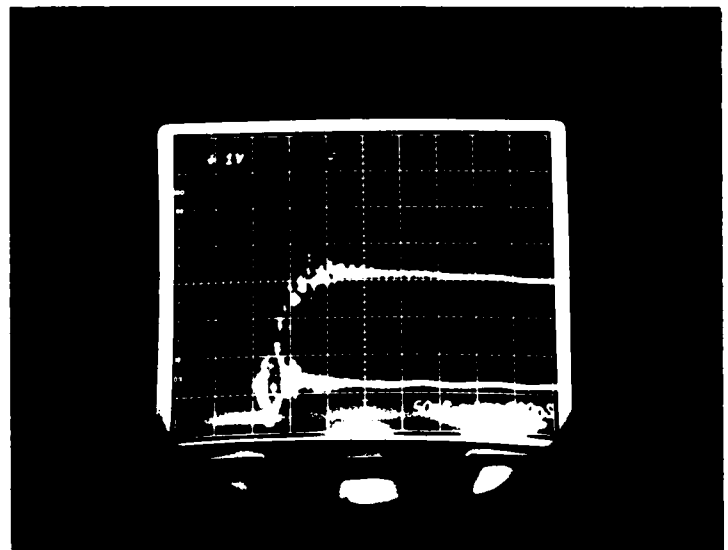
Comments: 376
.1V/DIV (190V/DIV)



376

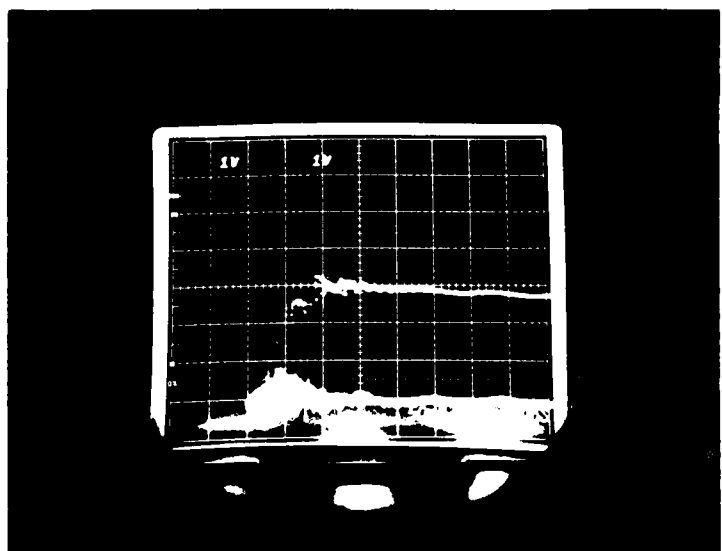
Date 5-29-85
 Test Point 36R-CL-1/10-Ø
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical 1.0V (1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link

Comments: 377



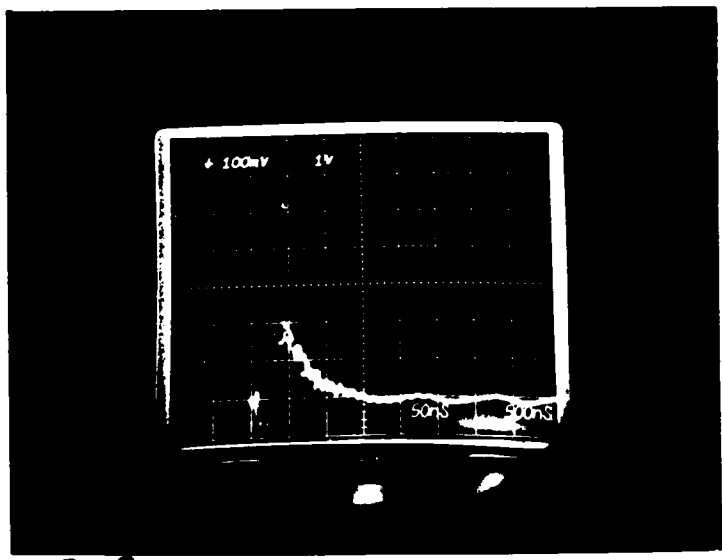
377

Date	5-29-85
Test Point	37-CL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1.0V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	378



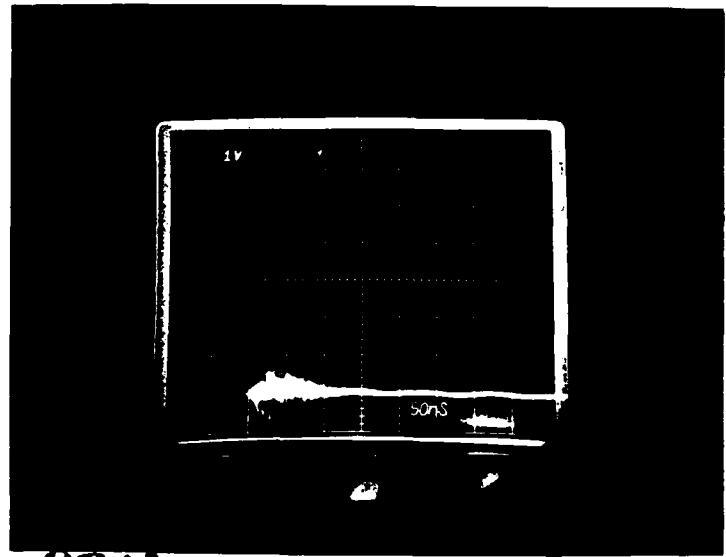
378

Date	5-29-85
Test Point	37R-CL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.1V (170V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	379



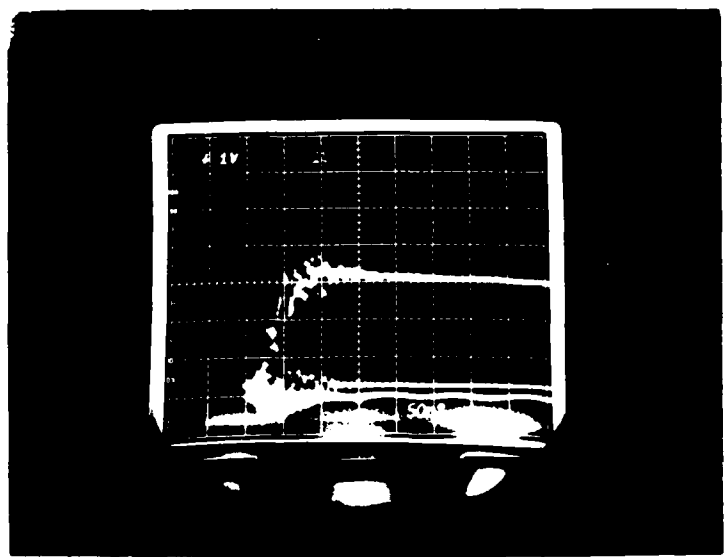
379

Date	5-29-85
Test Point	38-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	374



374

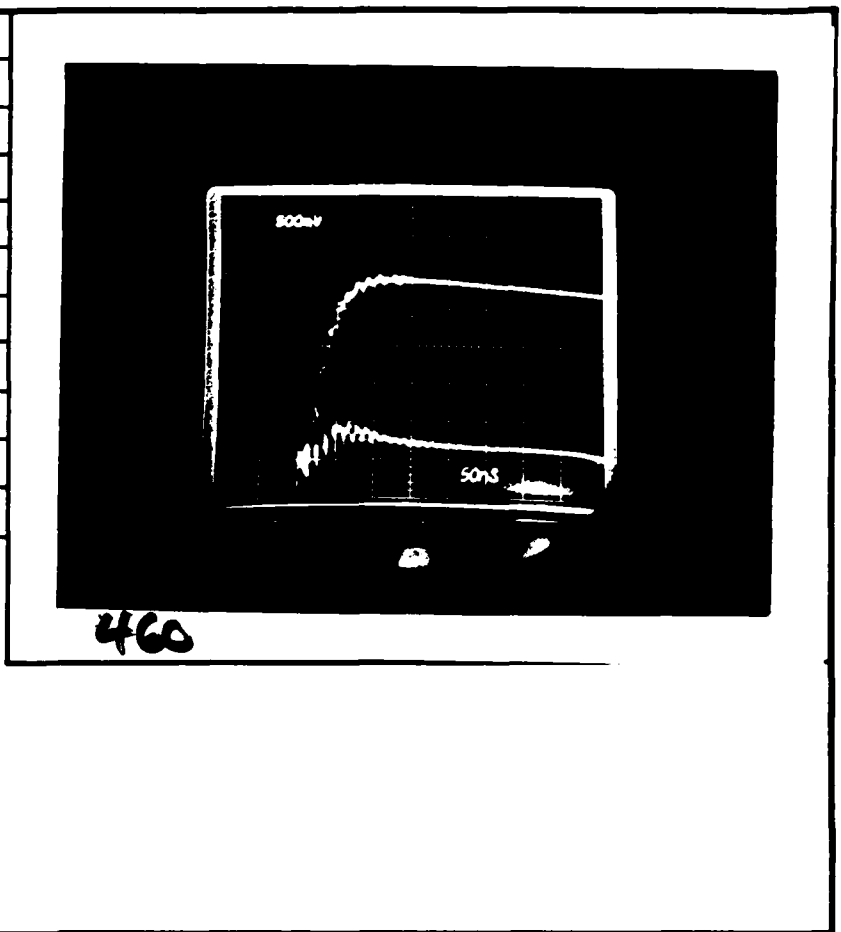
Date	5-29-85
Test Point	38R-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	375



375

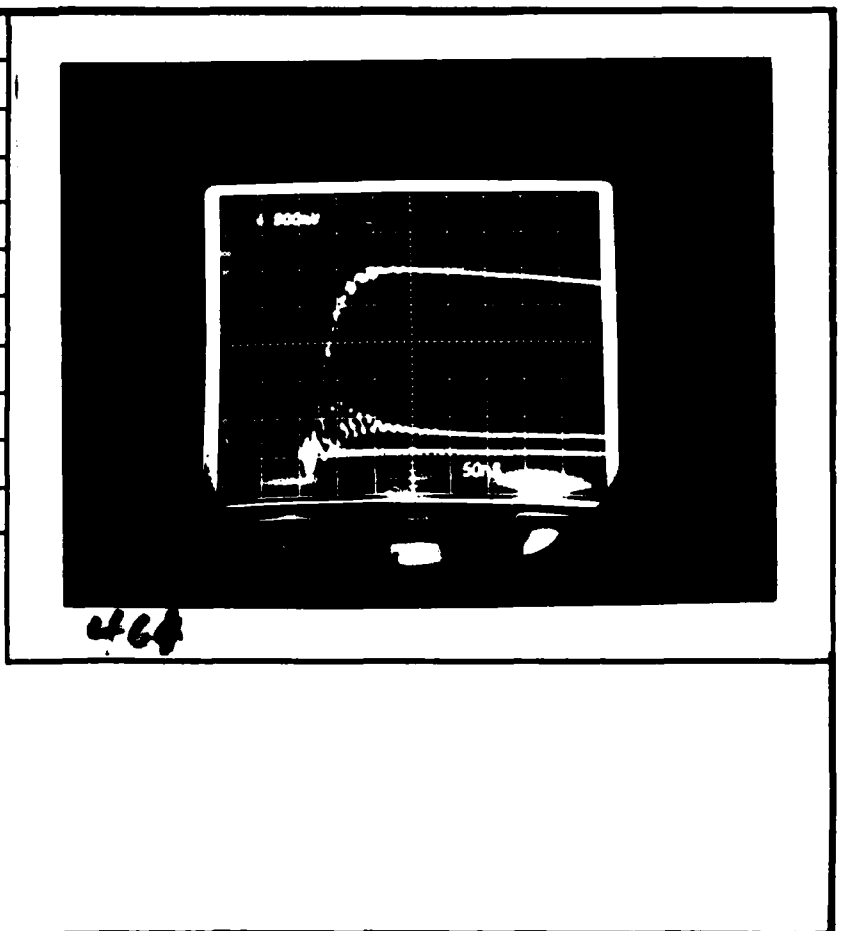
Date	5-30-85
Test Point	39-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	460

.5V (950V)/DIV
POSITIVE TERMINAL

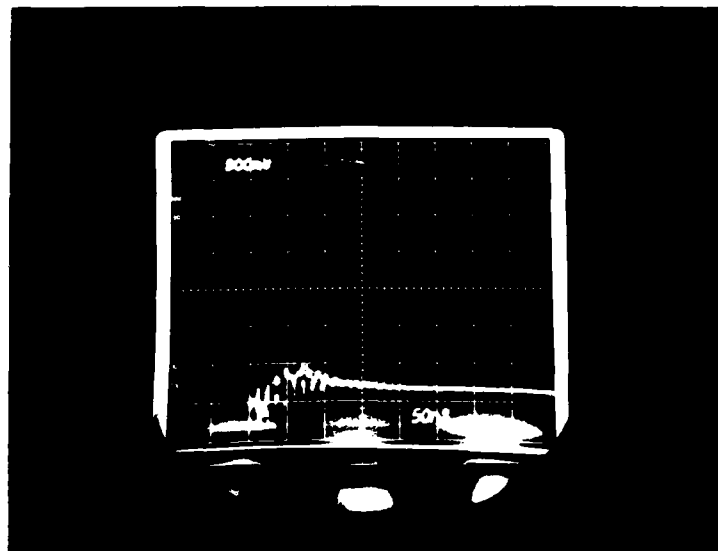


Date	5-30-85
Test Point	39R-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	461

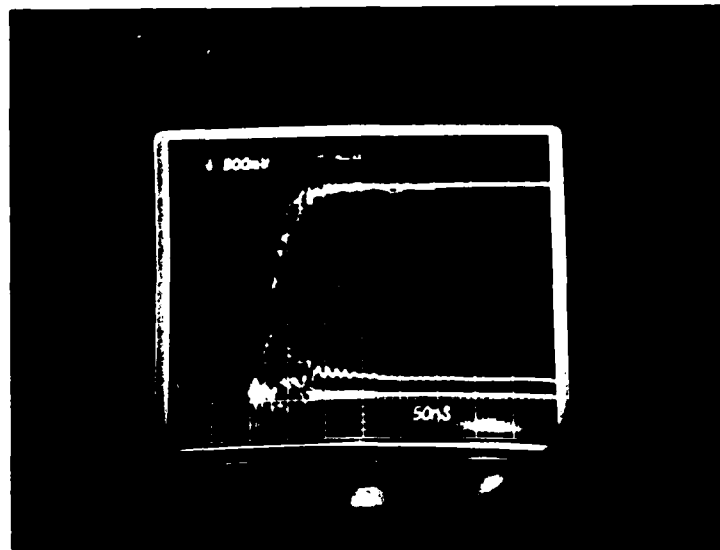
POSITIVE TERMINAL



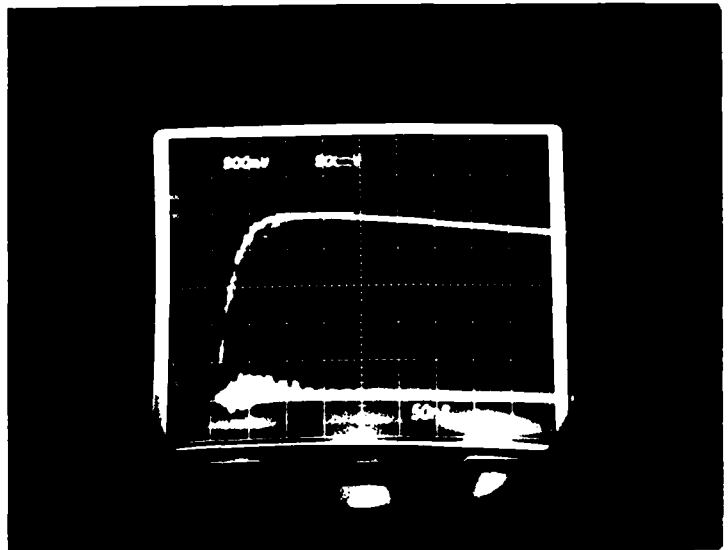
Date	5-30-85
Test Point	39-CL-1/10-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	462



Date	5-30-85
Test Point	39R-CL-1/10-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	463

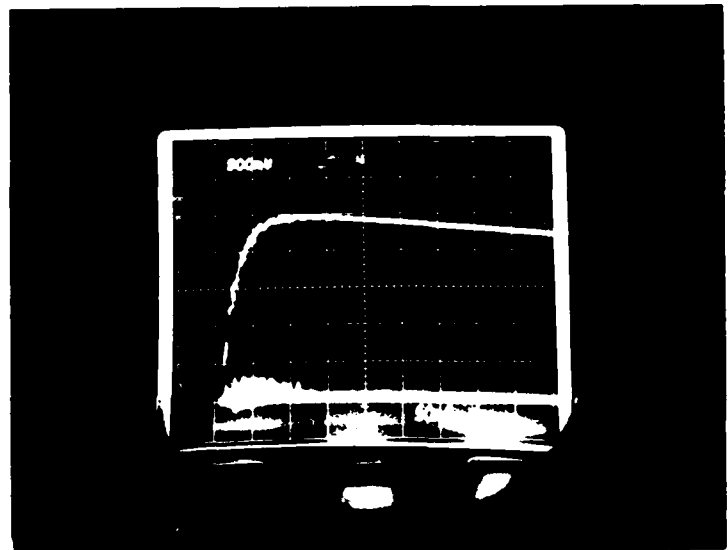


Date	6-3-85
Test Point	41-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	



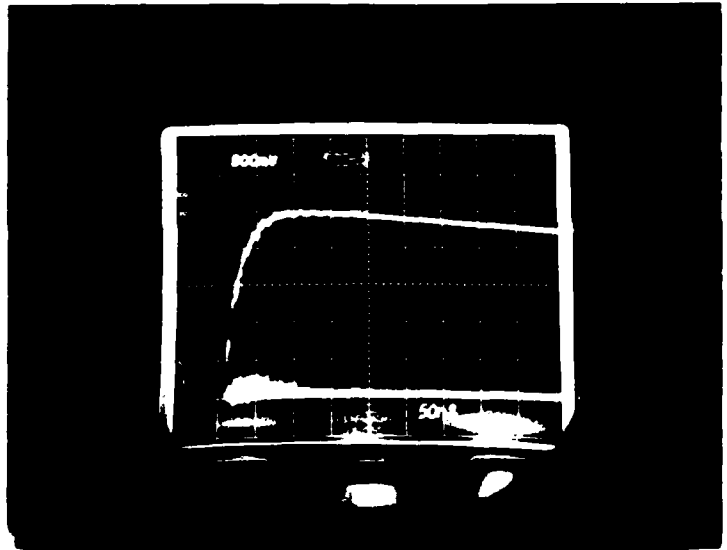
517

Date	6-3-85
Test Point	41R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	518



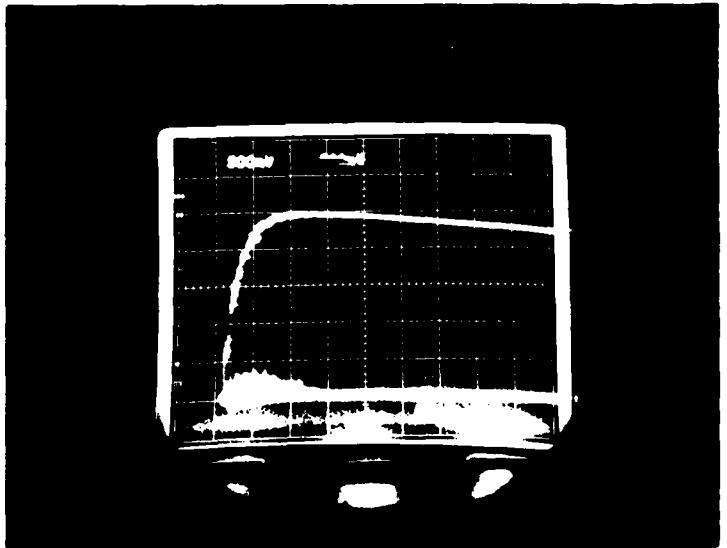
518

Date	6-3-85
Test Point	41-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	519



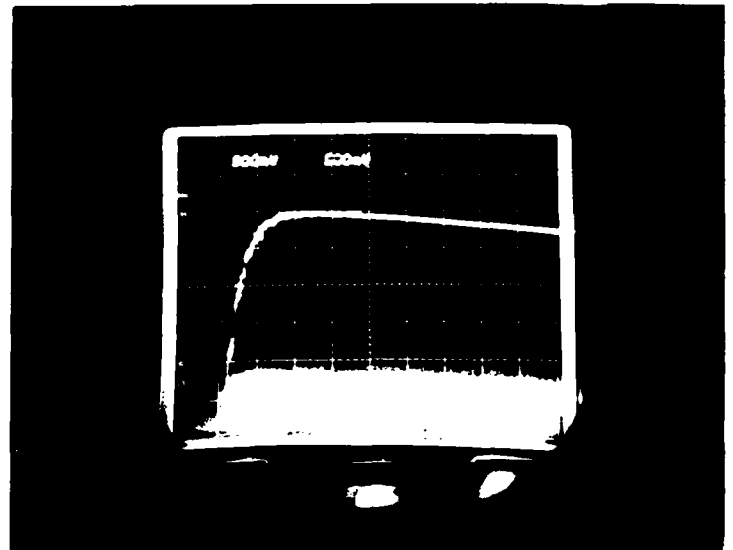
519

Date	6-3-85
Test Point	41R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	520



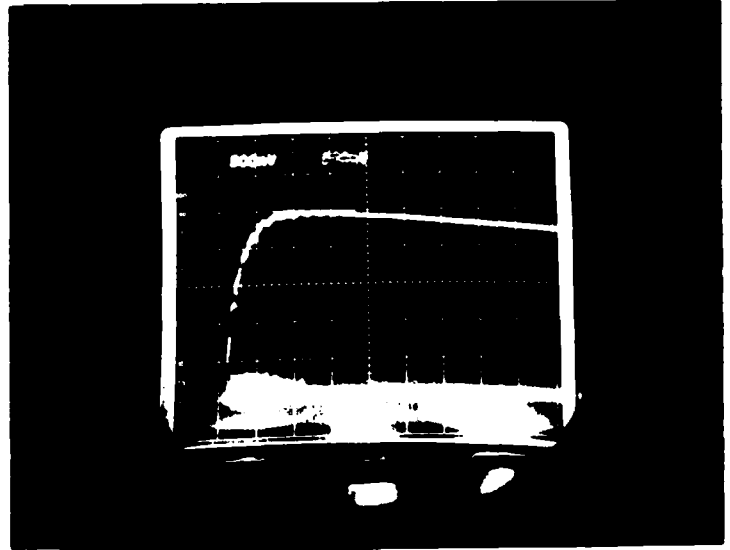
520

Date	6-3-85
Test Point	41-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	521



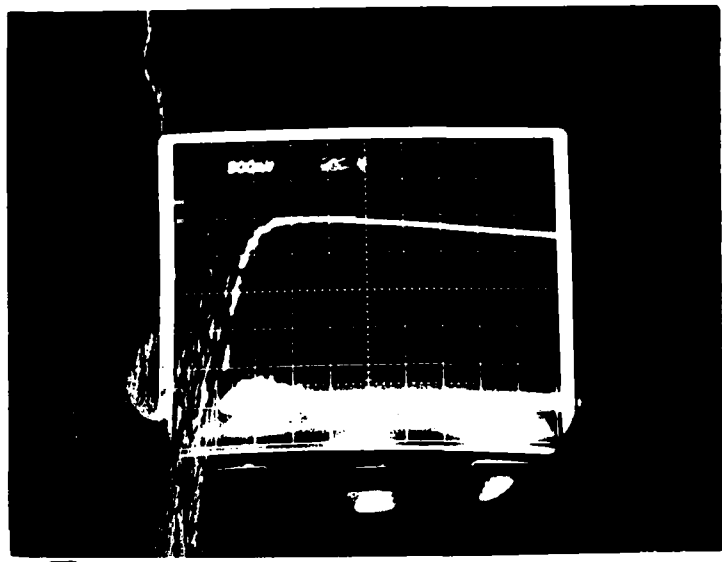
521

Date	6-3-85
Test Point	41R-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	522



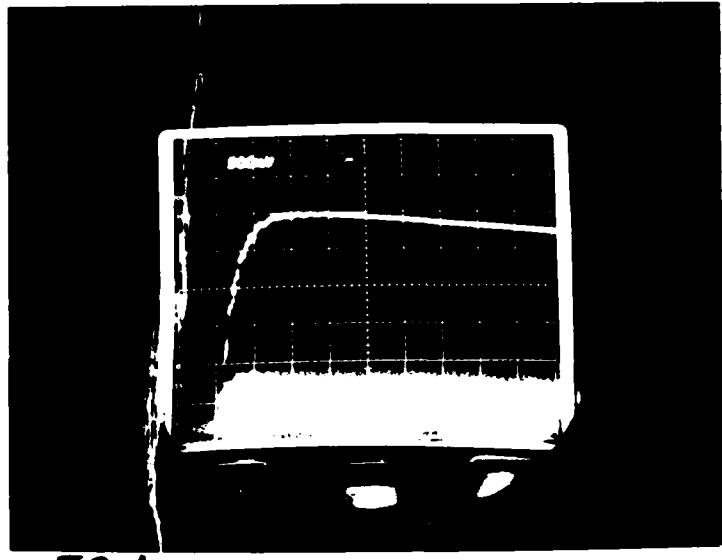
522

Date 6-3-85
 Test Point 41-CL-1/10-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level + 4500V
 Data Link
 Comments: 523



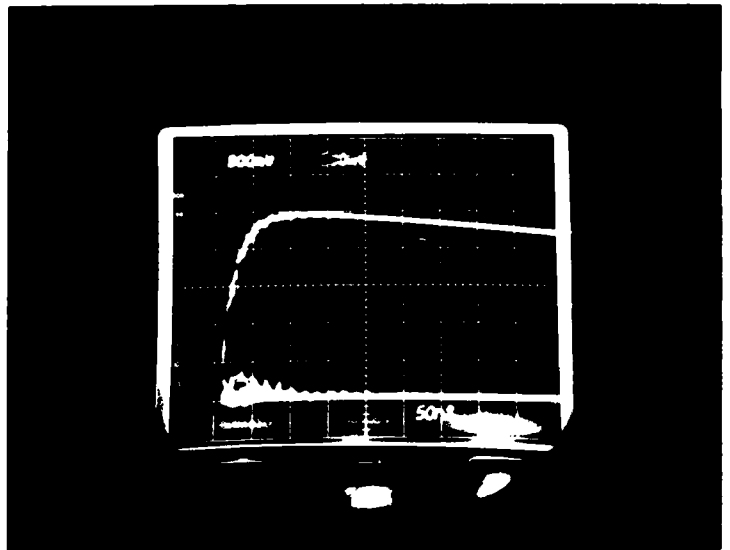
523

Date 6-3-85
 Test Point 41R-CL-1/10-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level - 4500V
 Data Link
 Comments: 524



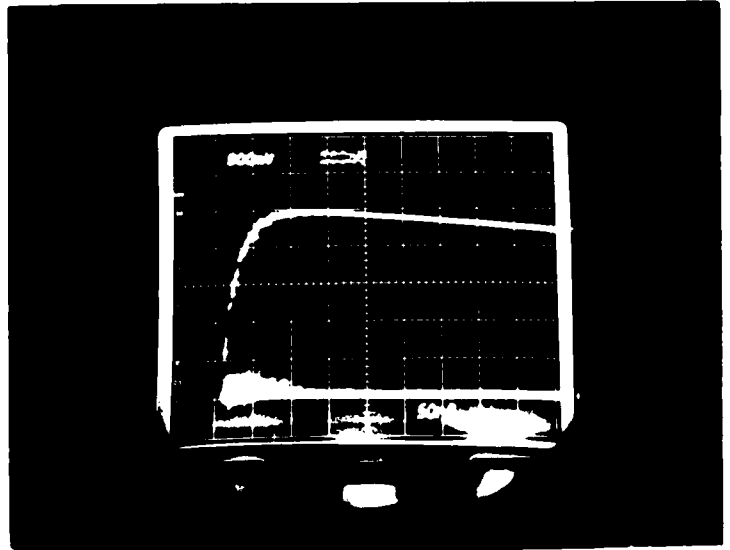
524

Date	6-3-85
Test Point	41-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	525



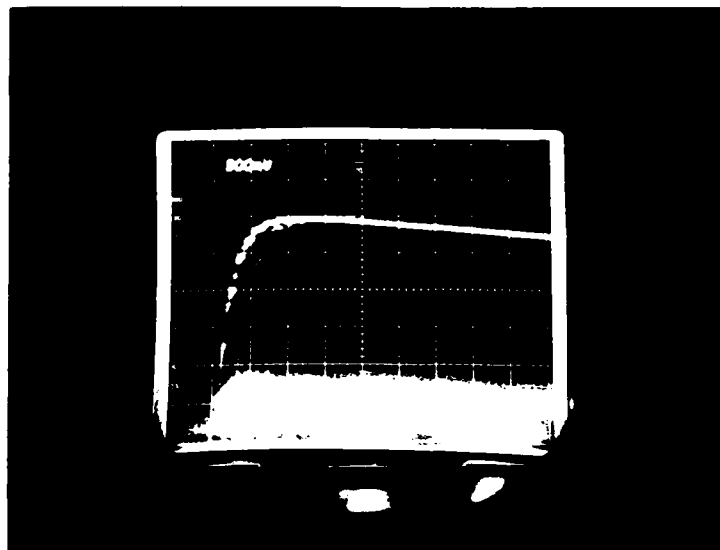
525

Date	6-3-85
Test Point	41R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	



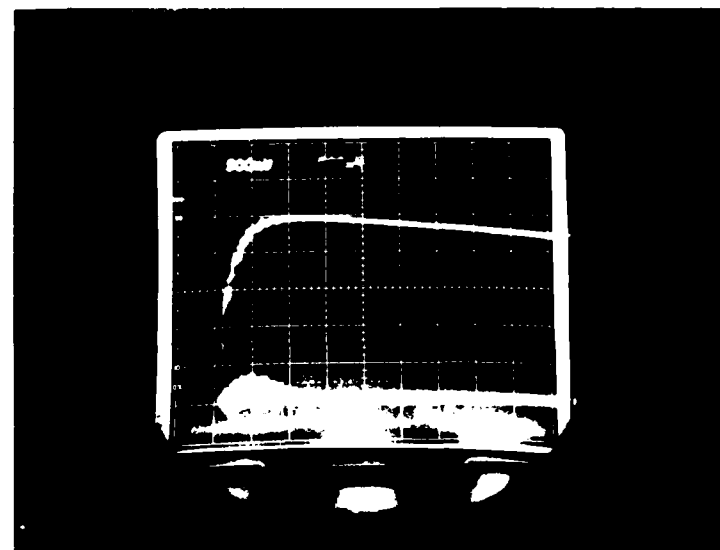
52C

Date	5-3-85
Test Point	44-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	527



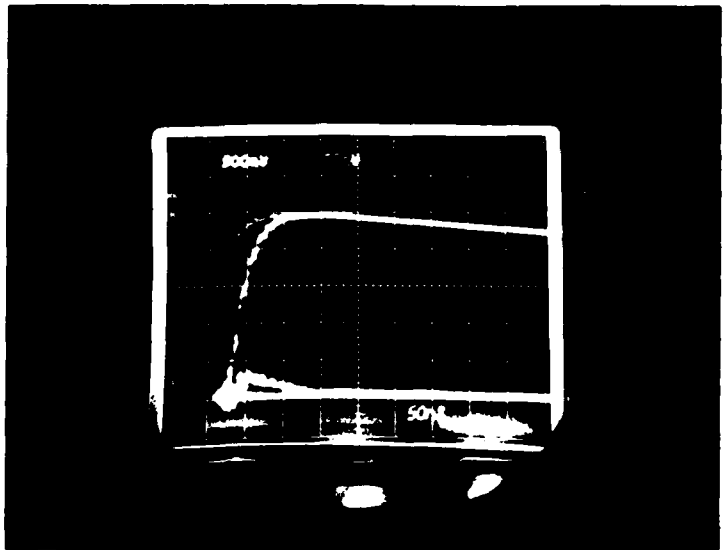
527

Date	6-3-85
Test Point	44R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



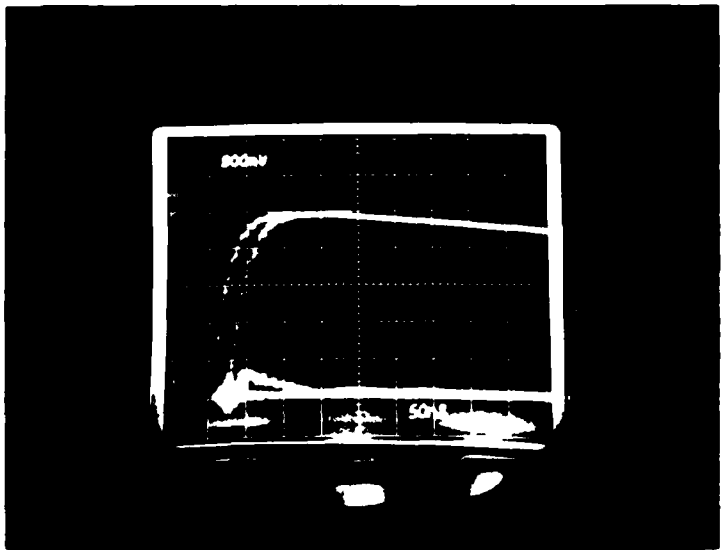
528

Date	6-3-85
Test Point	44-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	529



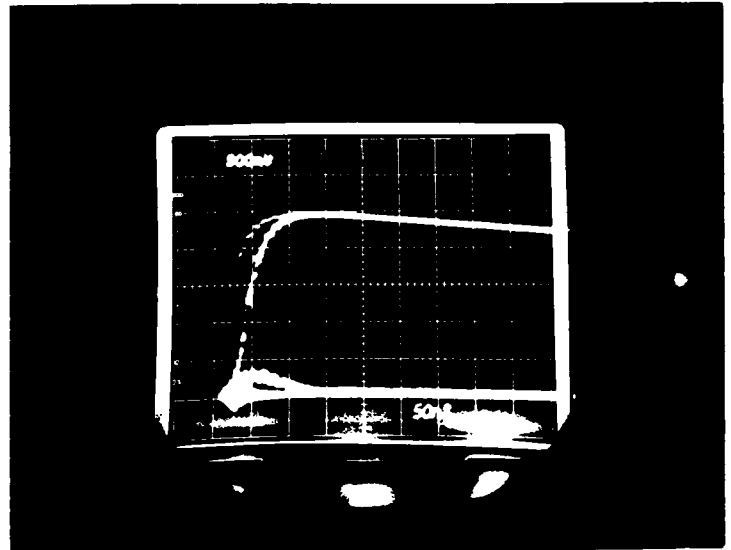
529

Date	6-3-85
Test Point	44R-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	530



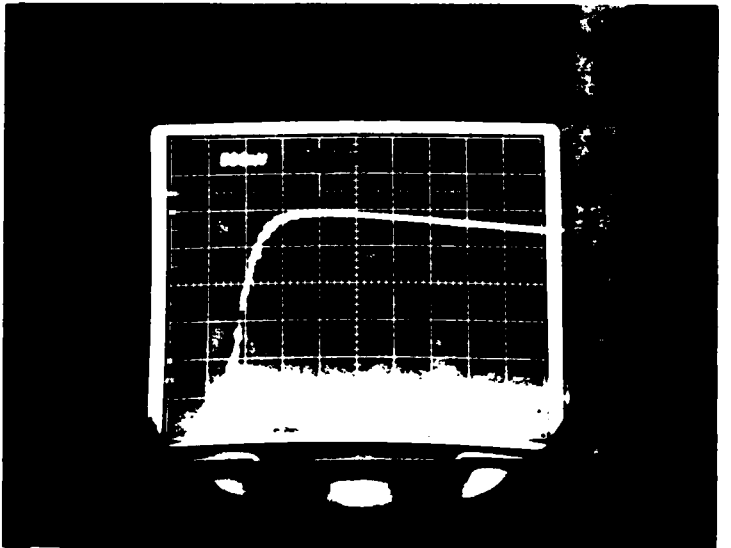
530

Date	6-3-85
Test Point	44-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	



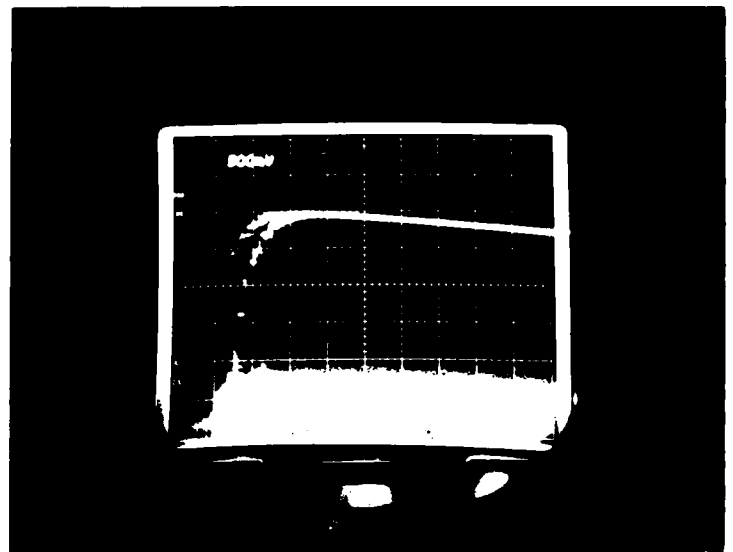
531

Date	6-3-85
Test Point	44R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	



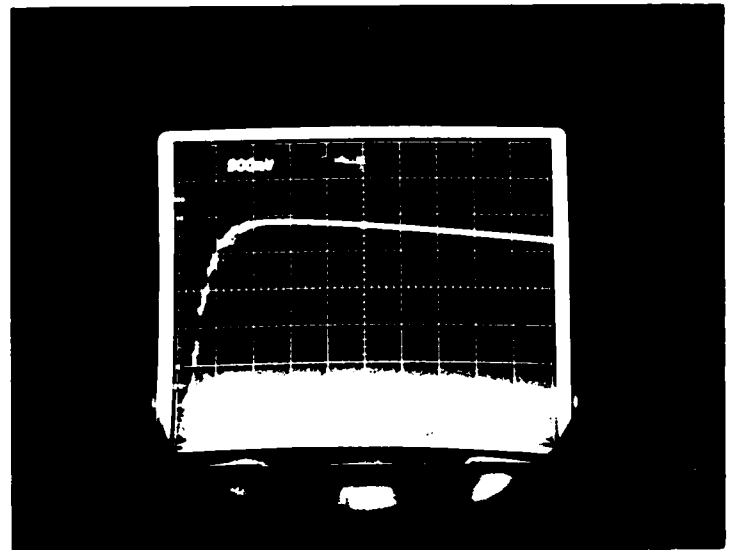
532

Date	6-3-85
Test Point	44-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	53



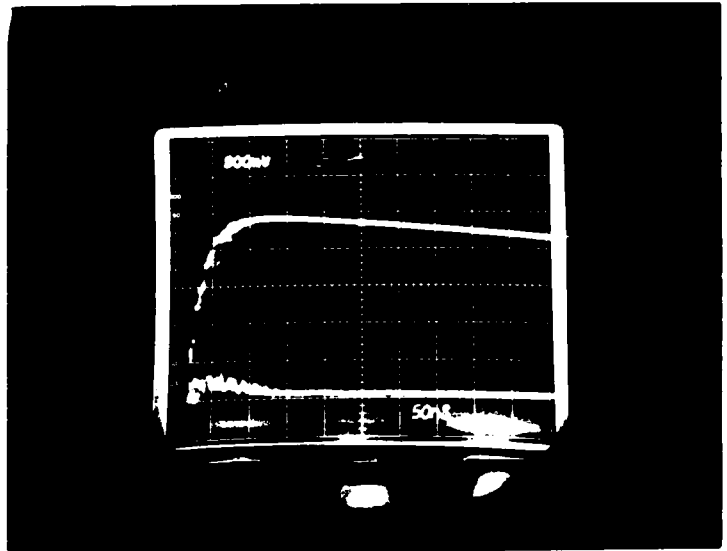
533

Date	6-3-85
Test Point	44R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	534



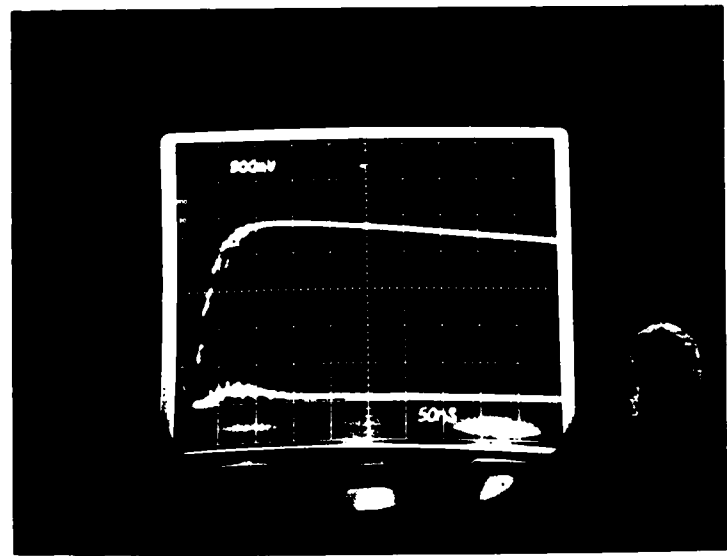
534

Date	6-3-85
Test Point	44-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	535



535

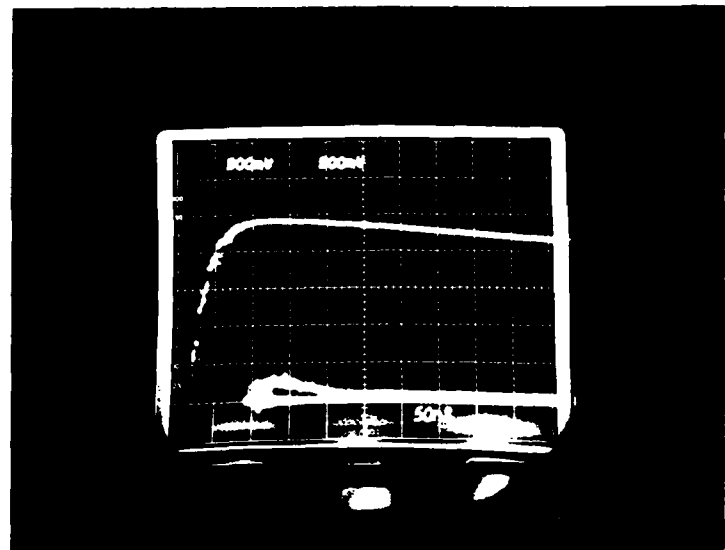
Date	6-3-85
Test Point	44R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	536



536

536

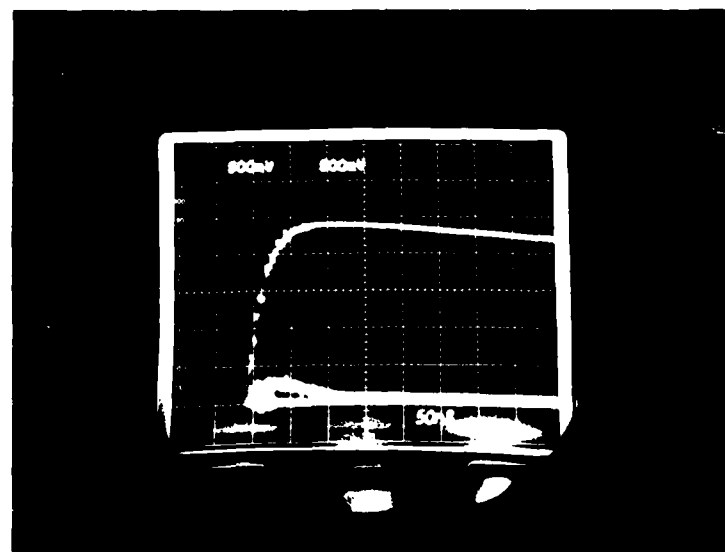
Date	5-3-85
Test Point	47-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	



537

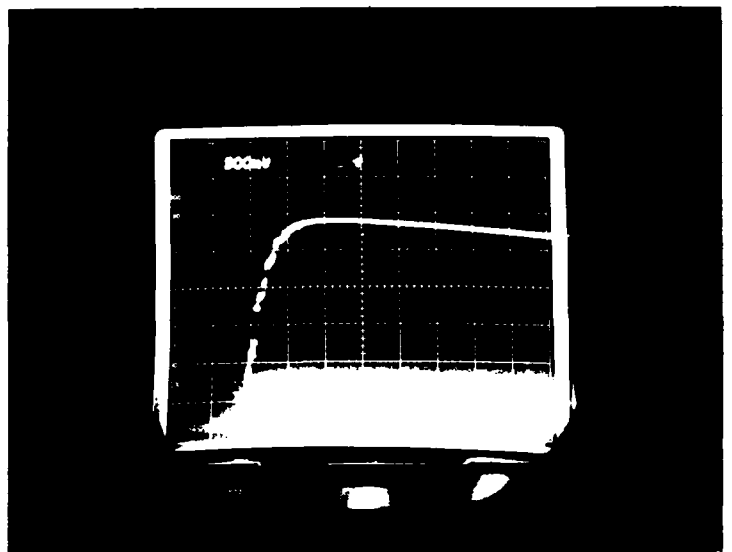
REF + ITEM TRACE ADJUSTED

Date	6-3-85
Test Point	47R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	



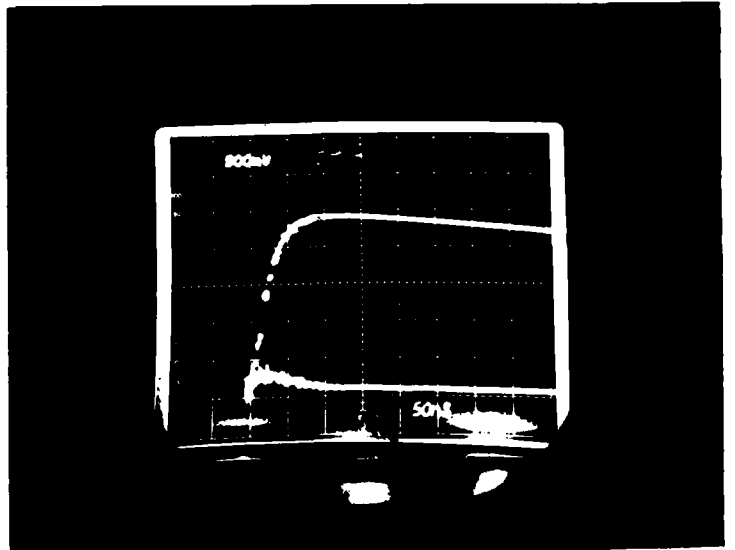
538

Date	6-3-85
Test Point	47-CL-410-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	539



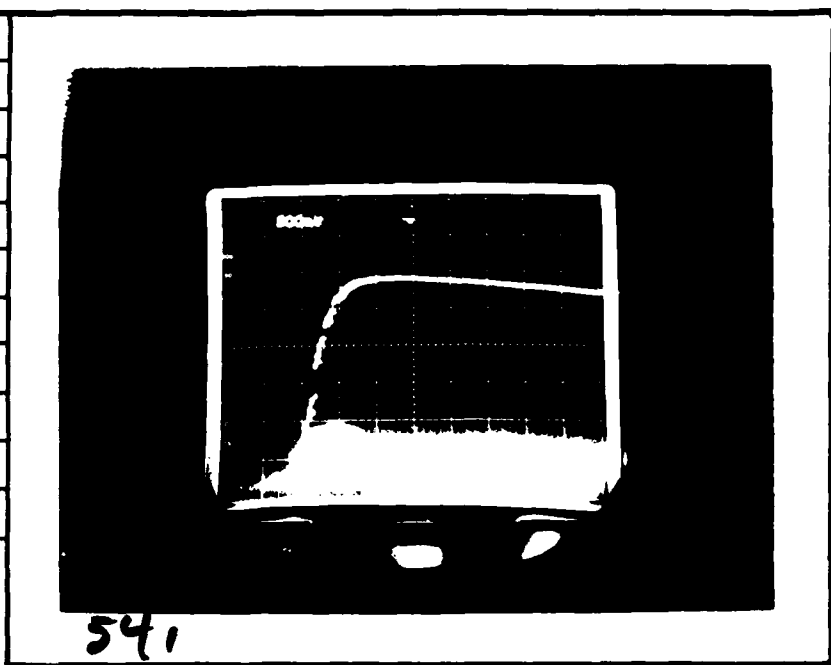
539

Date	6-3-85
Test Point	47R-CL-410-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	

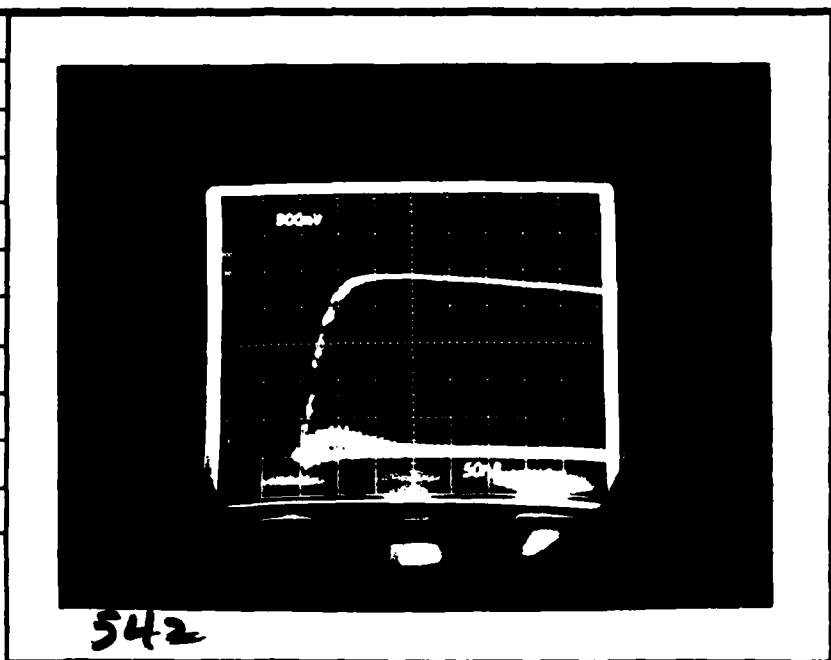


540

Date	6-3-85
Test Point	47-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4 500 V
Data Link	
Comments:	541

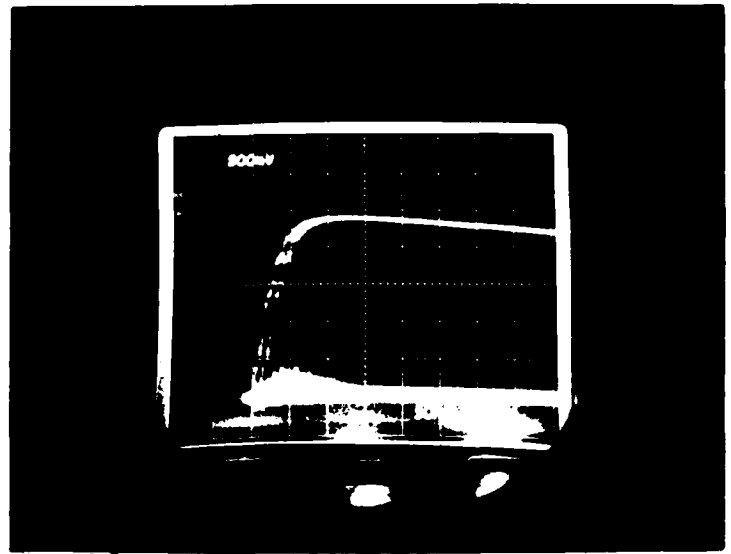


Date	6-3-85
Test Point	47R-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	542



Date	6-3-85
Test Point	47-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	

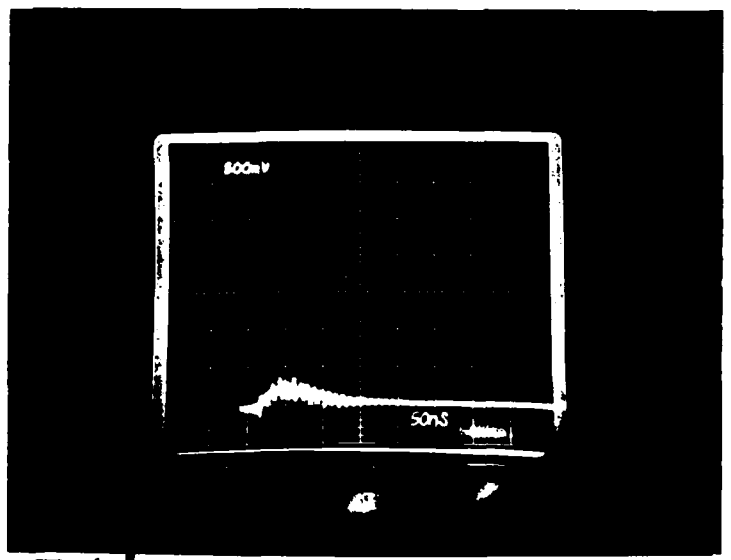
Comments: 543



543

Date	6-3-85
Test Point	47R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	

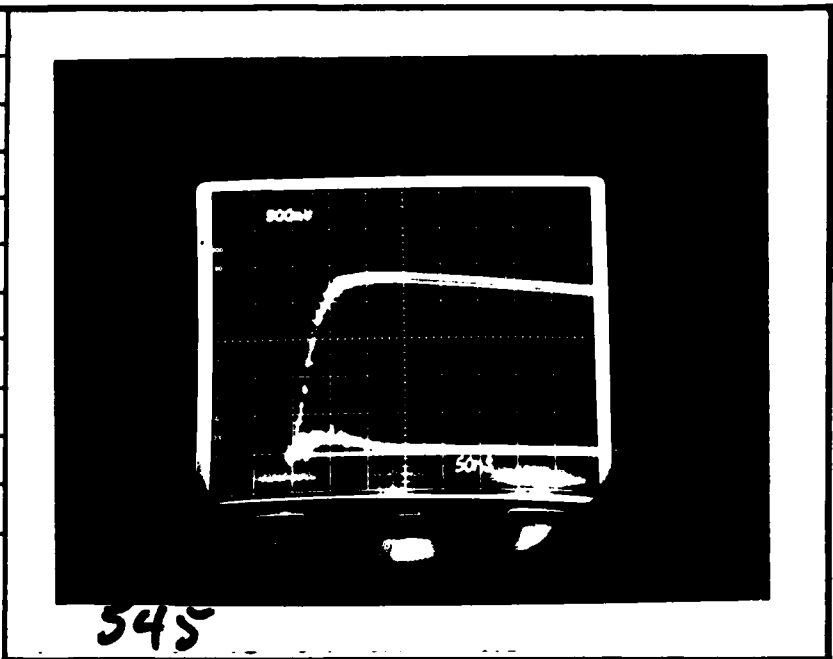
Comments: 544



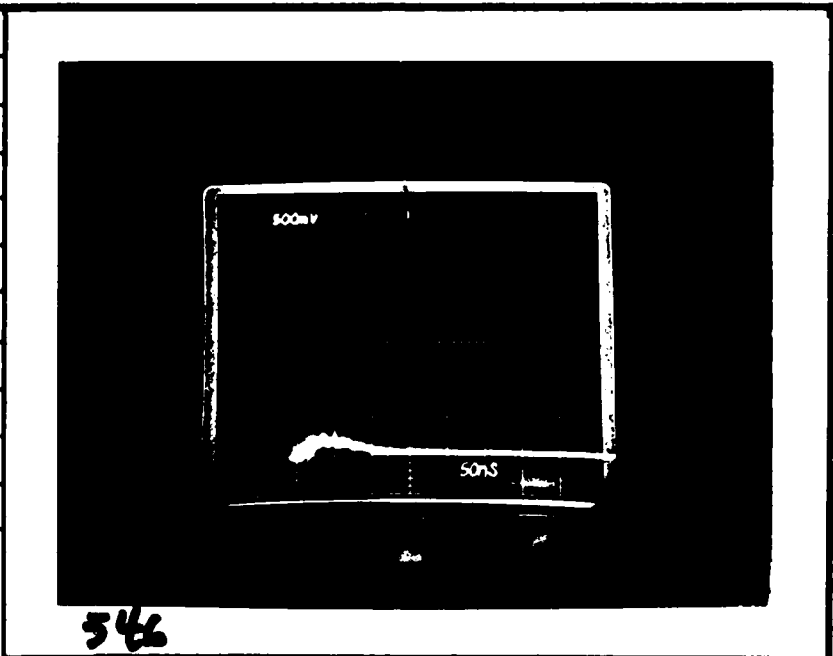
544

NO REF -

Date	6-3-85
Test Point	47-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	
Comments:	575

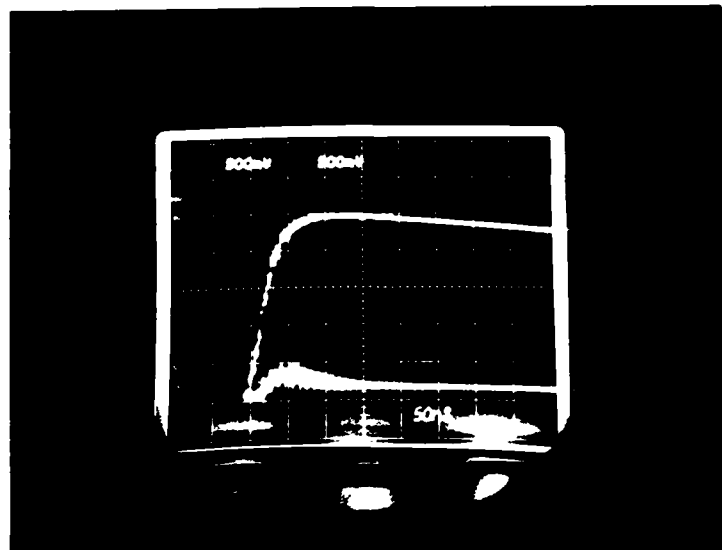


Date	6-3-85
Test Point	47R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	
Comments:	576



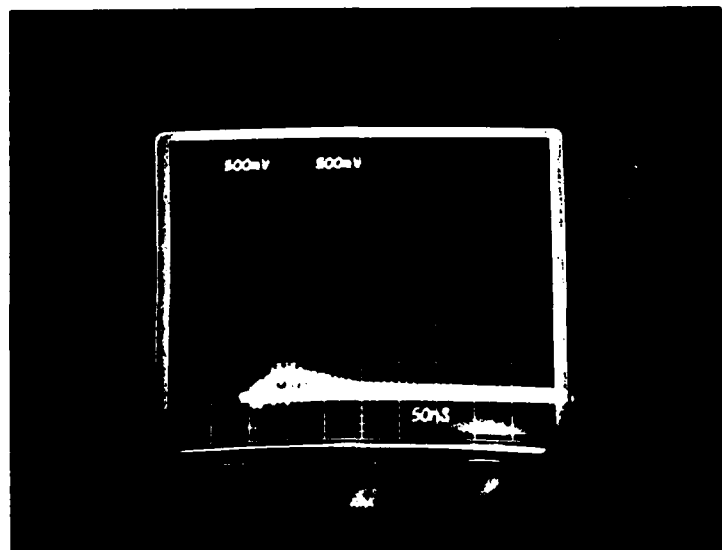
NO REF -

Date	6-3-85
Test Point	50-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	555



555

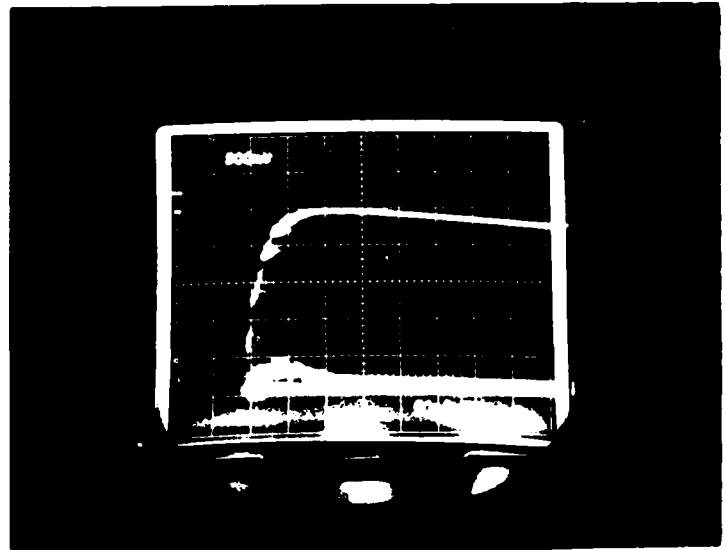
Date	6-3-85
Test Point	50R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	556



556

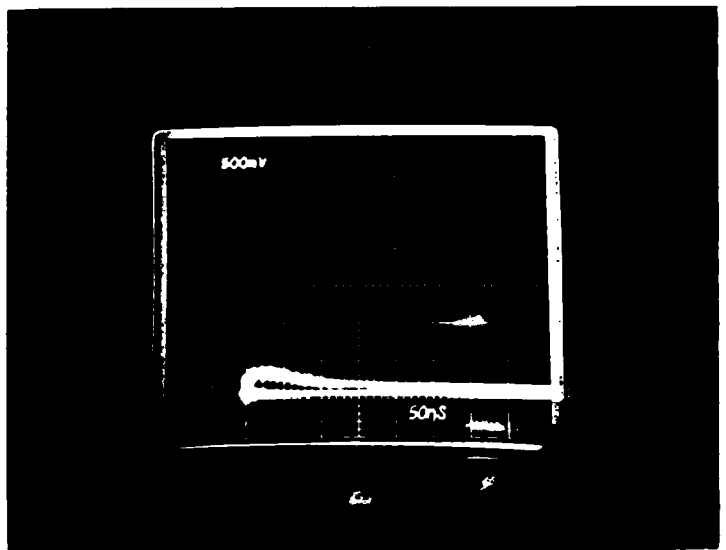
NO REF

Date	6-3-85
Test Point	50-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	553



553

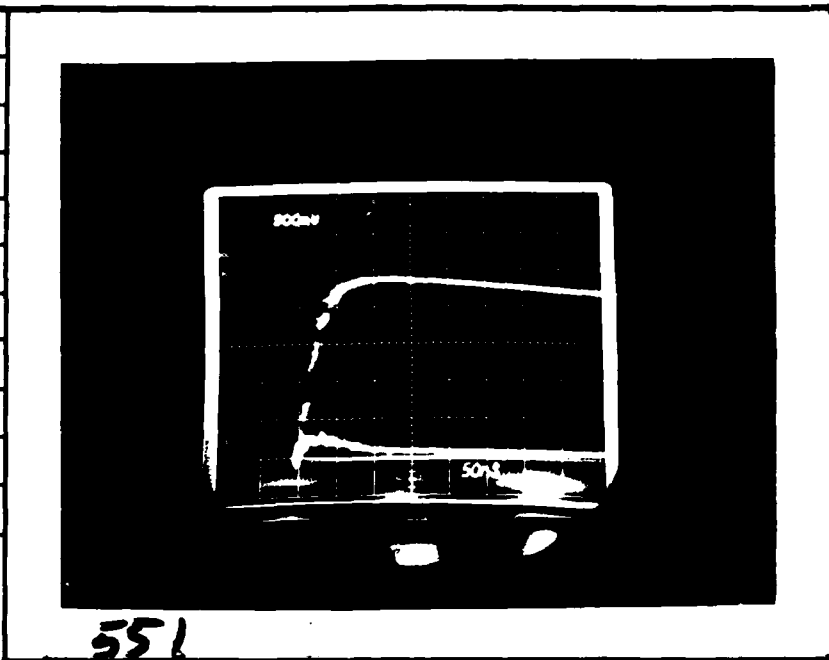
Date	6-3-85
Test Point	50R-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	554



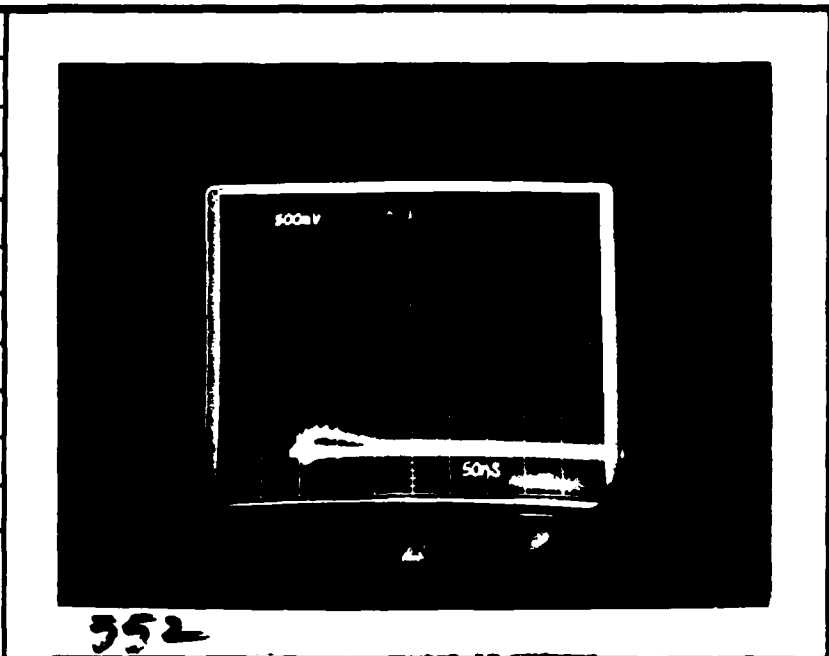
554

NO DEF

Date	6-3-85
Test Point	50-CL-4/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	50

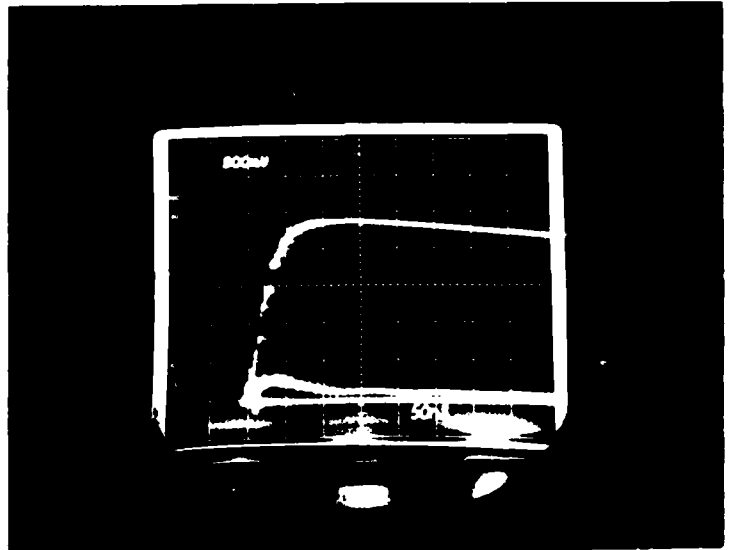


Date	6-3-85
Test Point	50R-CL-4/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	50



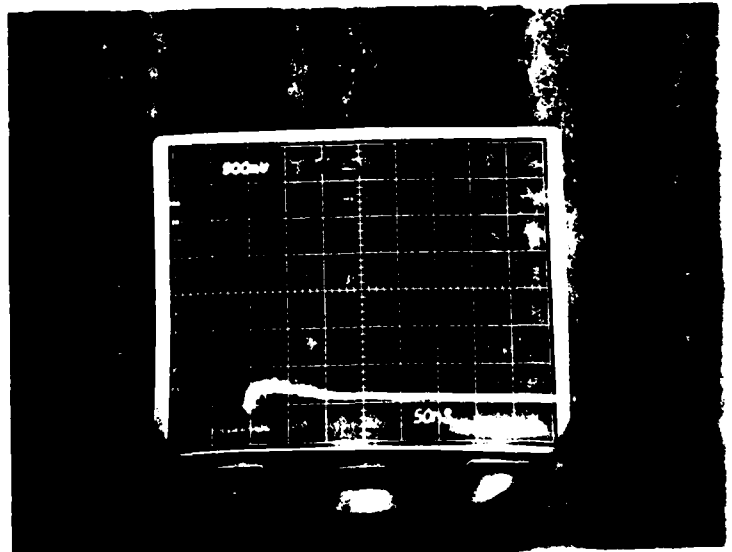
No REF

Date	6-3-85
Test Point	50-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	547



547

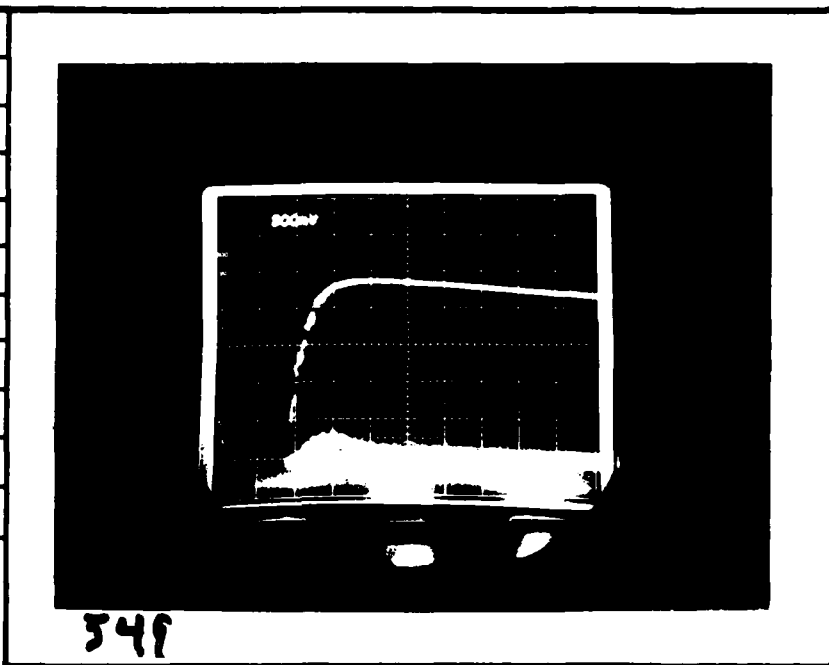
Date	6-3-85
Test Point	50R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	548



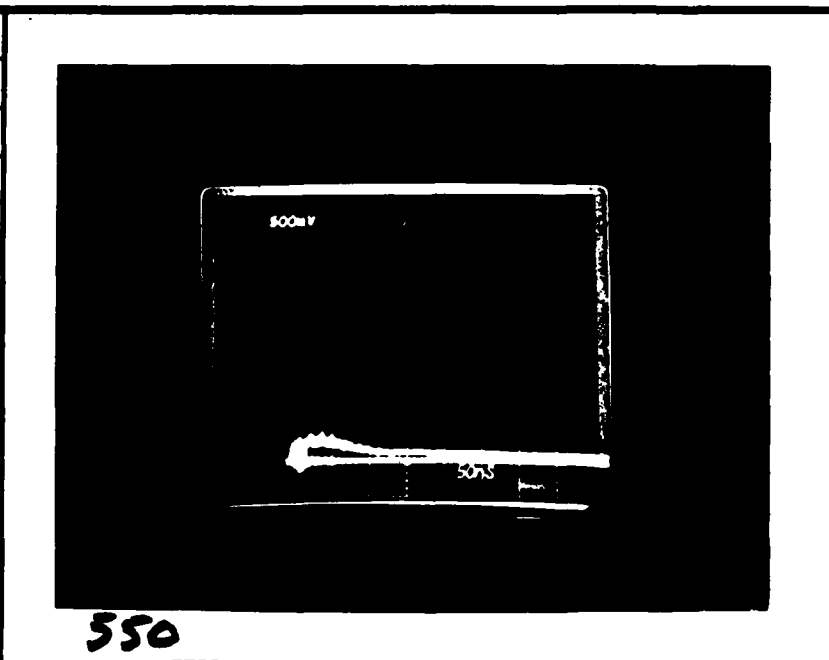
548

NO REF

Date	6-3-85
Test Point	50-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+ 4500 V
Data Link	
Comments:	549

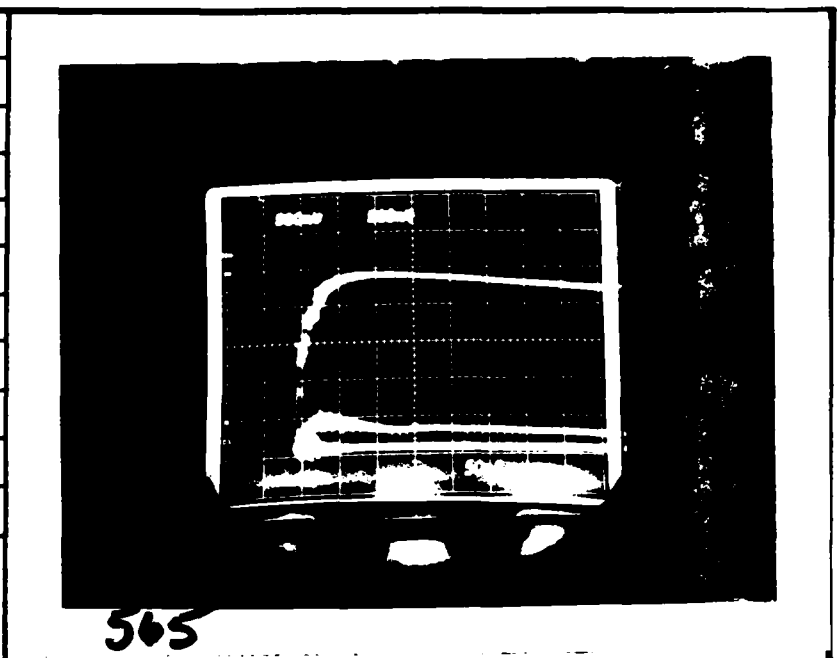


Date	6-3-85
Test Point	50R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	- 4500 V
Data Link	
Comments:	

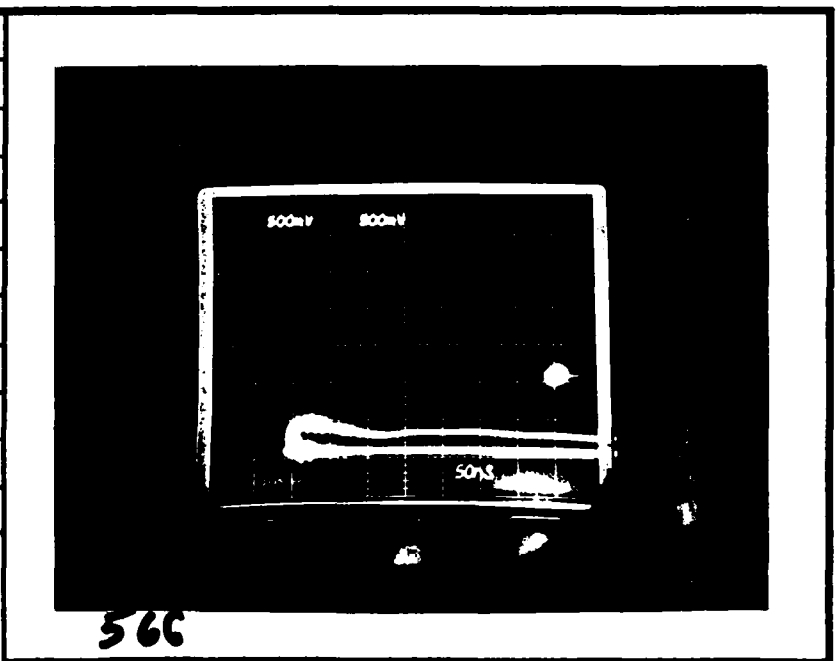


NO REF

Date	6-3-85
Test Point	S3-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	565

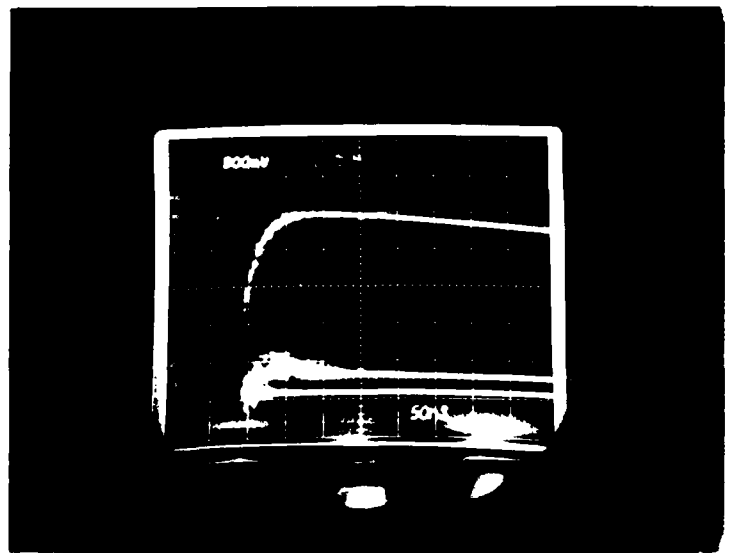


Date	6-3-85
Test Point	S3 R-GL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	566



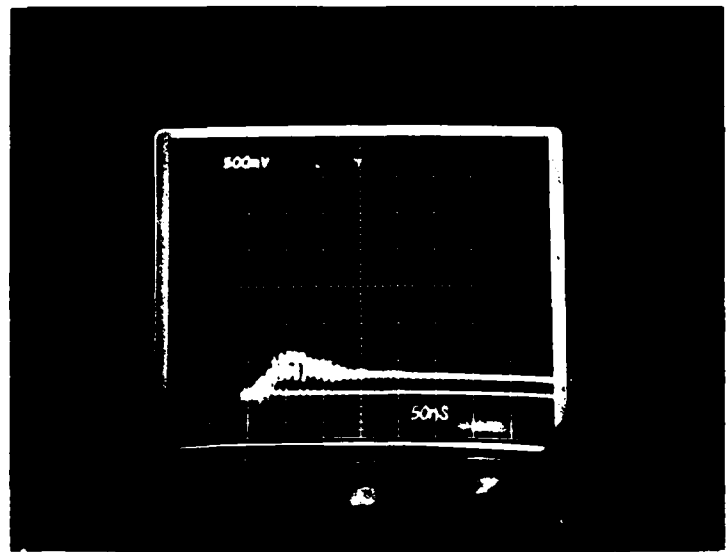
N. PLF -

Date	6-3-85
Test Point	53-CL-Y10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	53 F



563

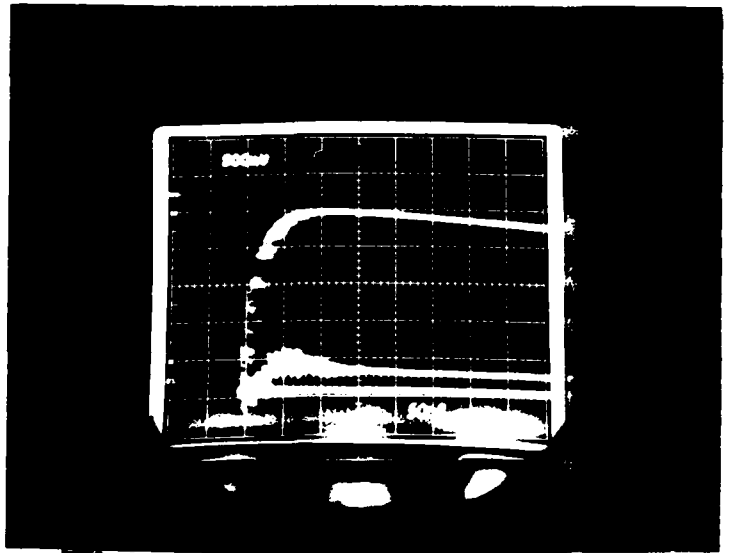
Date	6-3-85
Test Point	53R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



564

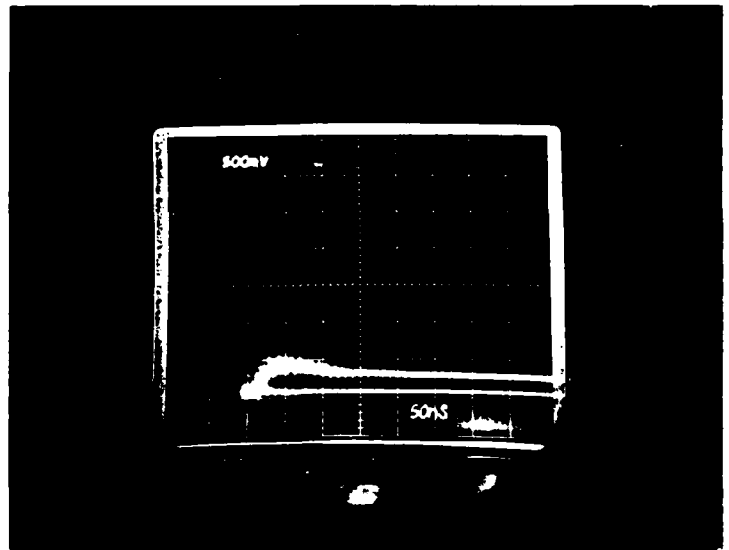
NO REF

Date	6-3-85
Test Point	53-CL-410-c
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	561



561

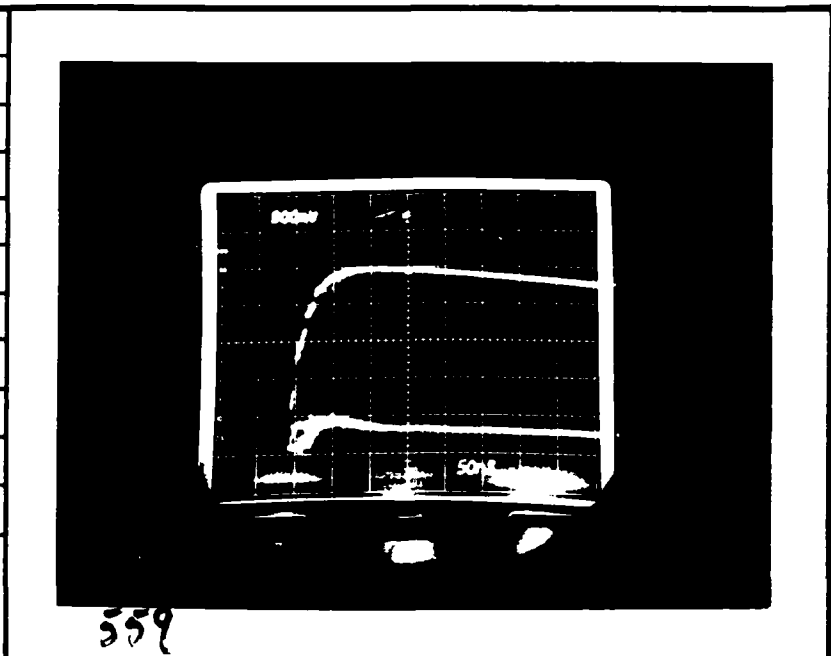
Date	6-3-85
Test Point	53R-CL-410-c
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	



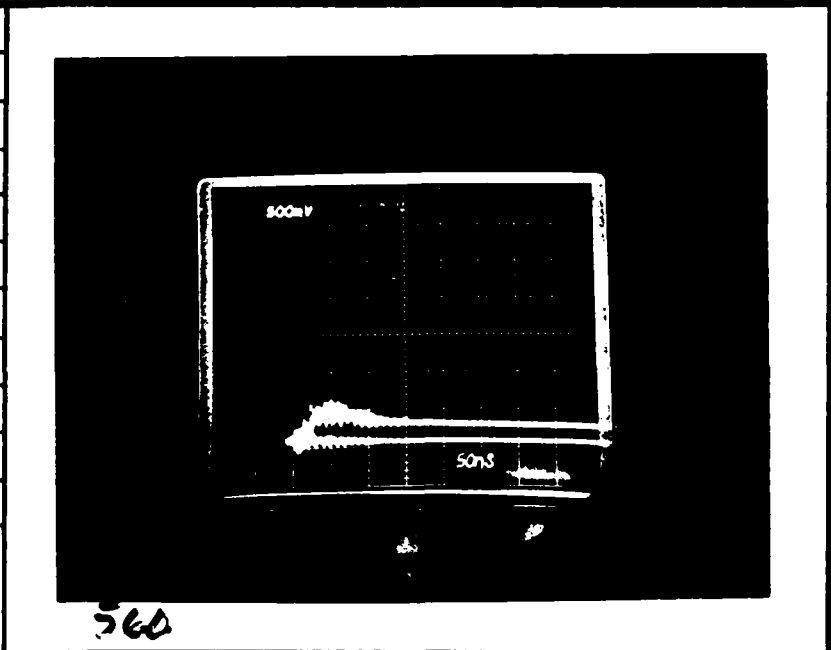
562

NO REF

Date	6-3-85
Test Point	53-CL-Y10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	559

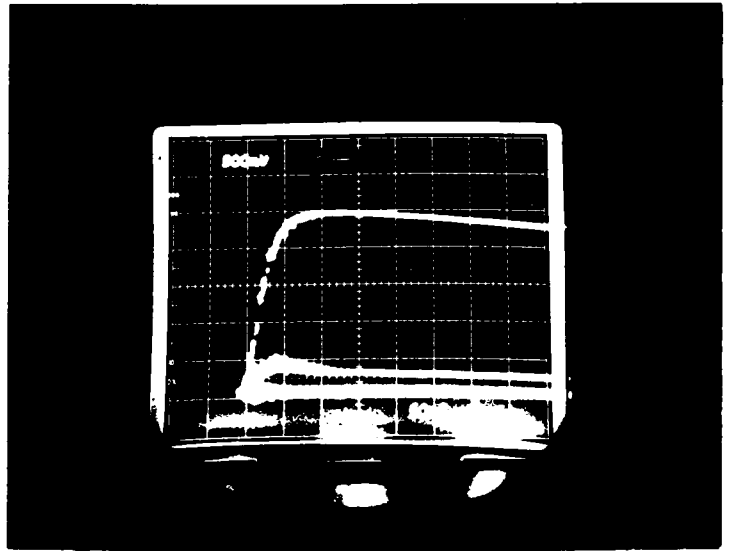


Date	6-3-85
Test Point	53R-CL-Y10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	560



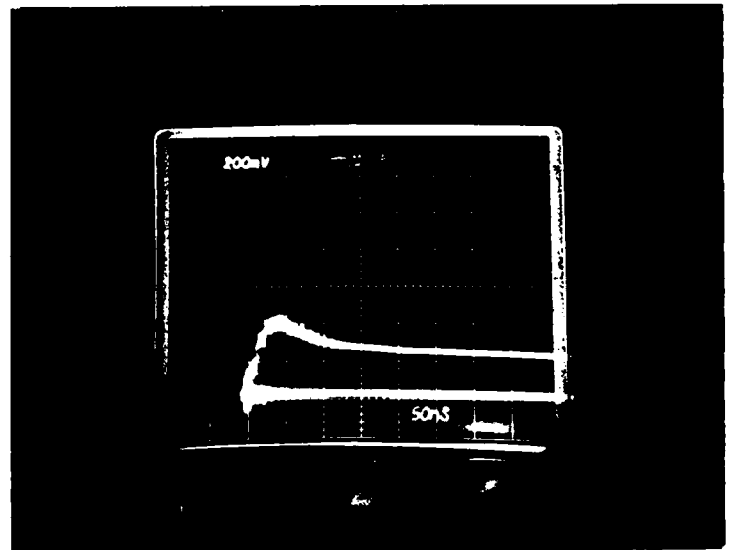
NO REF

Date	6-3-85
Test Point	53-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	557



557

Date	6-3-85
Test Point	53R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.2V (380) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	557 Vertical .2V (380)

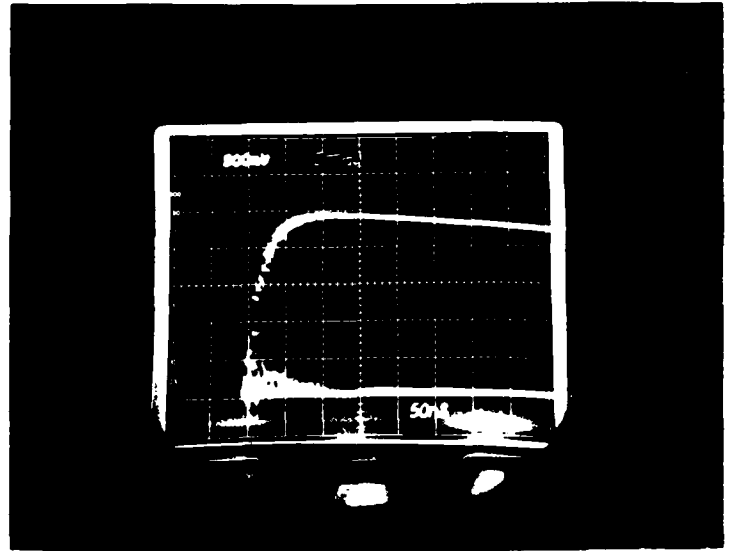


557

NO REF

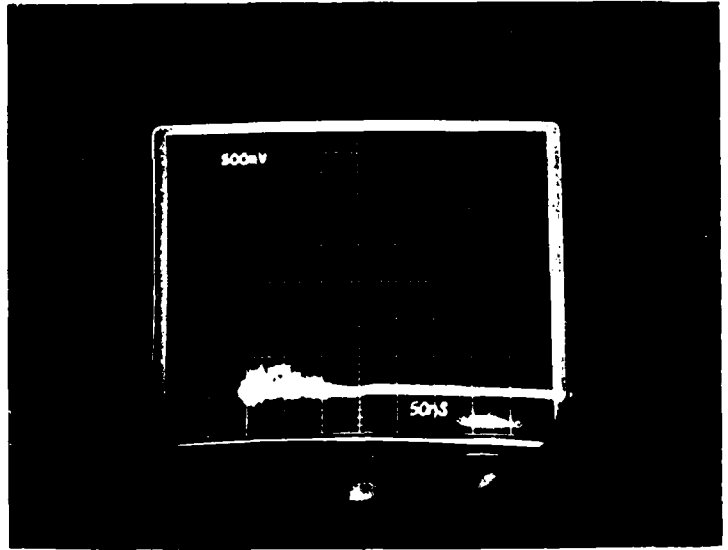
VERTICAL / 380V
PER DIVISION

Date	6-3-85
Test Point	56-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	576



576

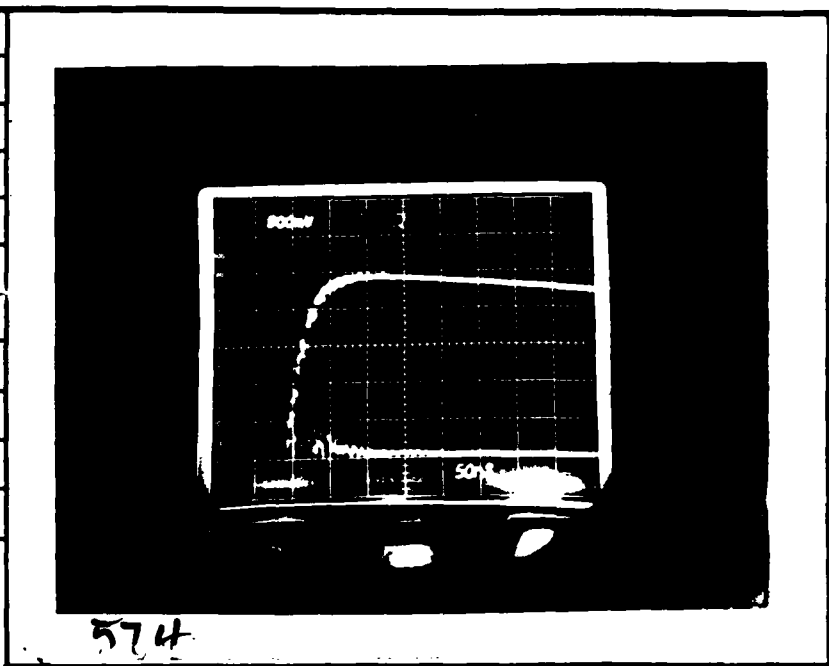
Date	6-3-85
Test Point	56R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	577



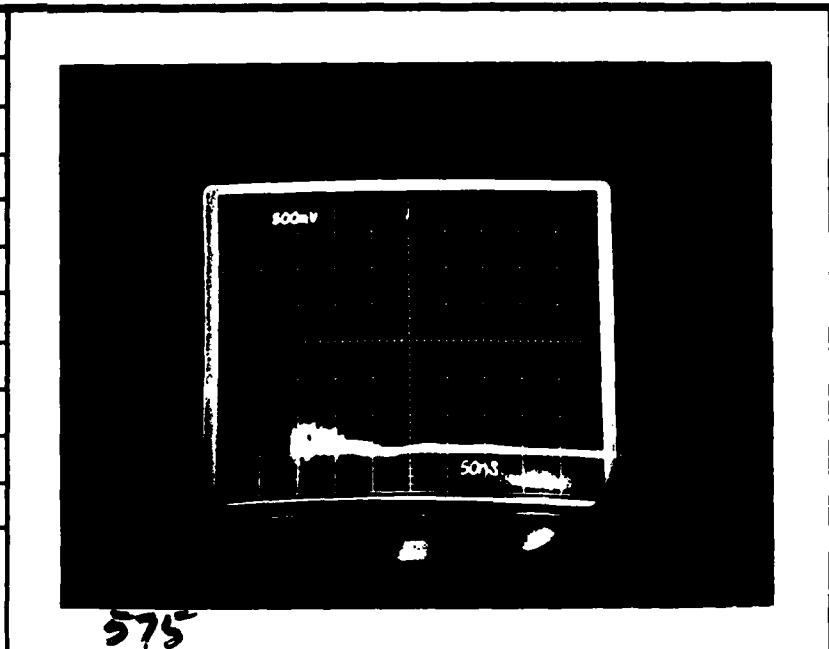
577

NO REF

Date	6-3-85
Test Point	56-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	574

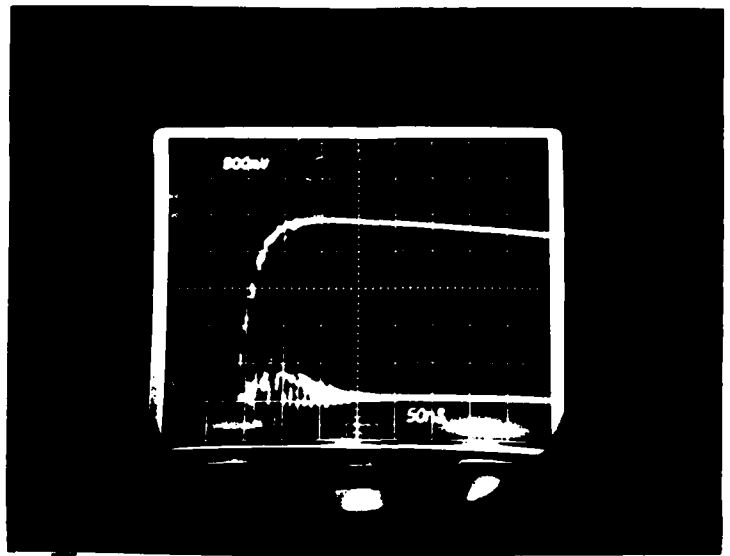


Date	6-3-85
Test Point	56R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	575



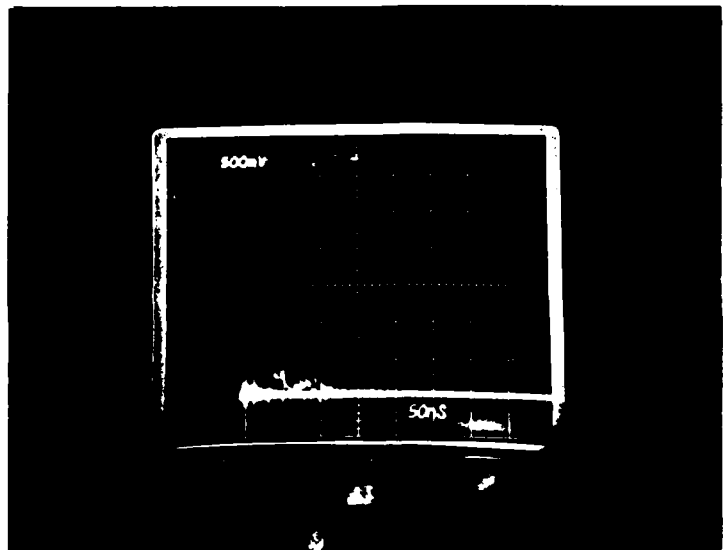
NO REF

Date	6-3-85
Test Point	56-CL-110-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	



572

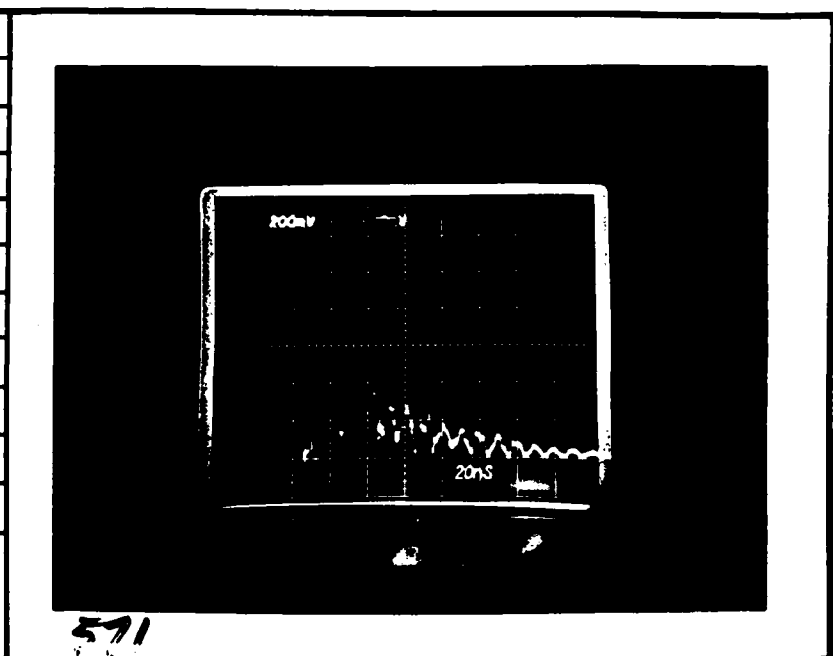
Date	6-3-85
Test Point	56R-CL-110-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



573

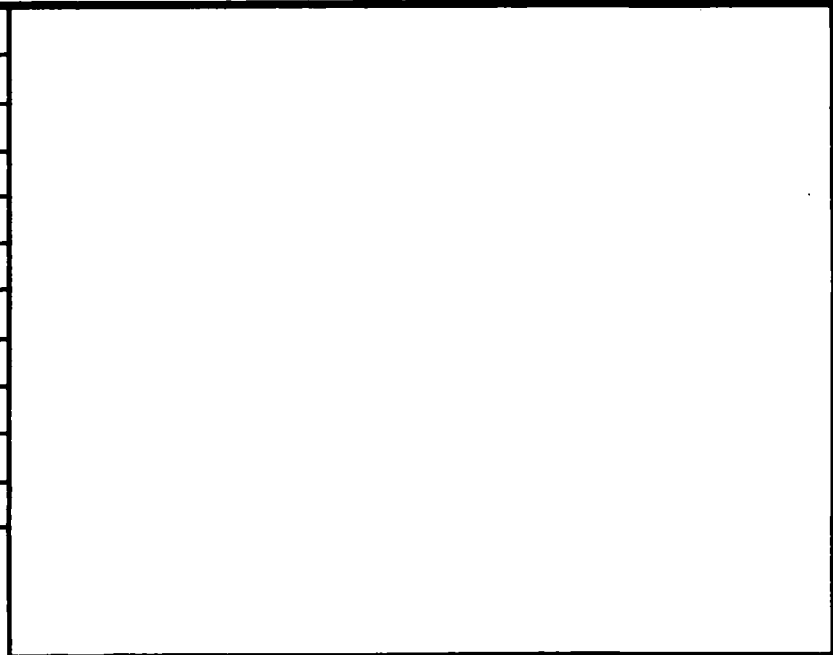
NO REF

Date	6-3-85
Test Point	56R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.2V (380) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	



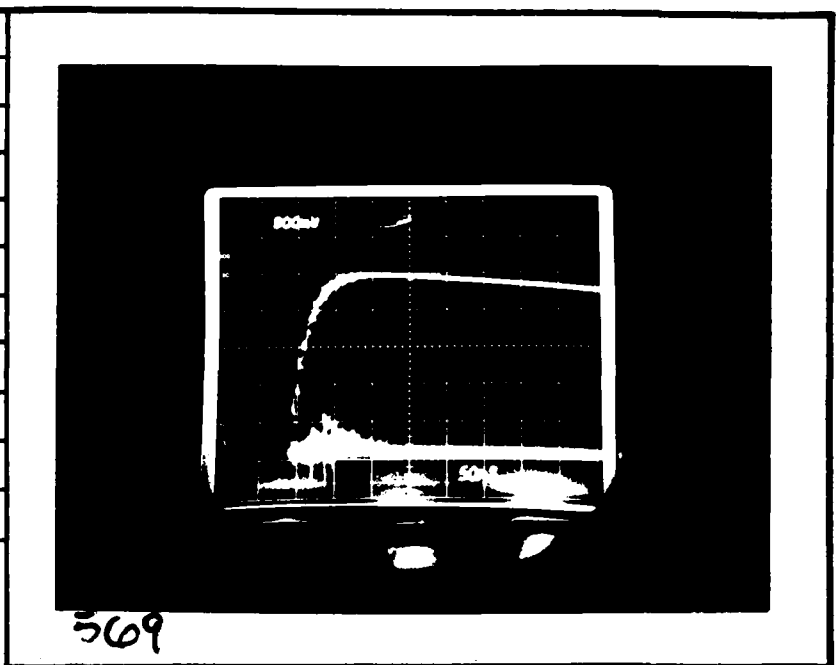
Comments: 571

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	

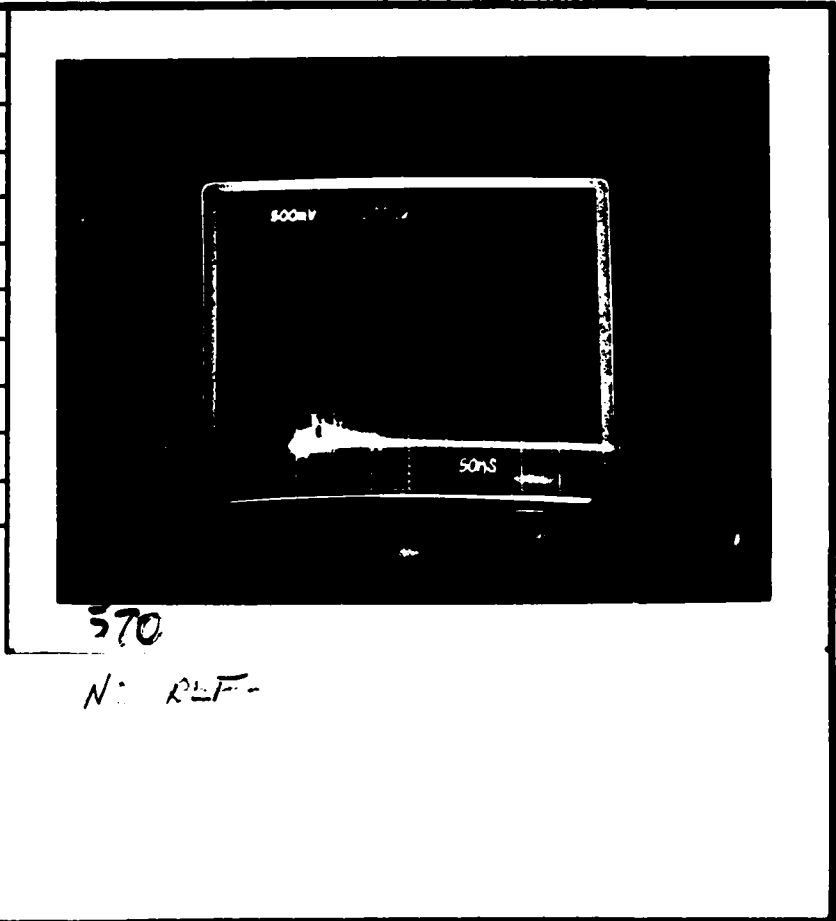


Comments:

Date	6-3-85
Test Point	56-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 ✓
Data Link	
Comments:	551

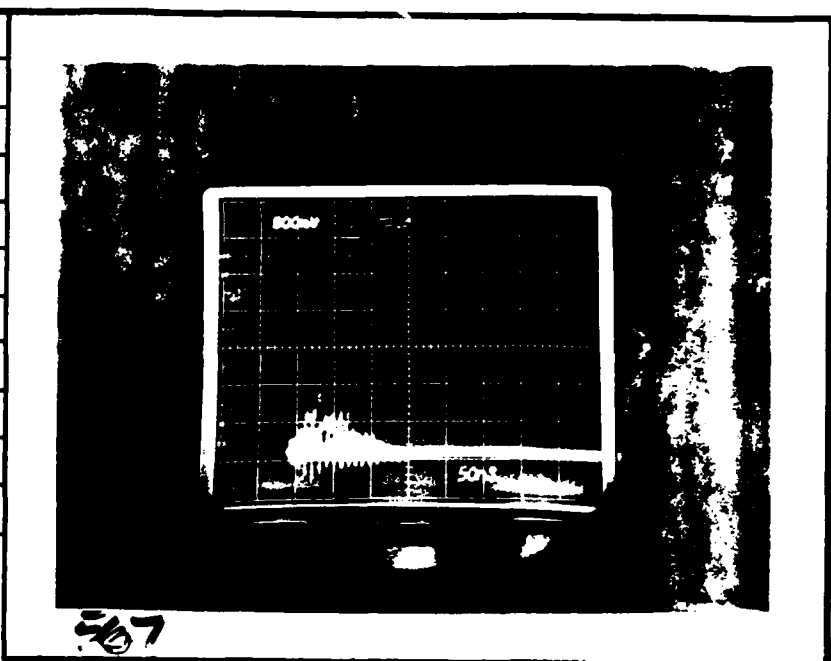


Date	6-3-85
Test Point	56R-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 ✓
Data Link	
Comments:	570



Date 6-3-85
 Test Point 56-CL-1/10-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500 V
 Data Link

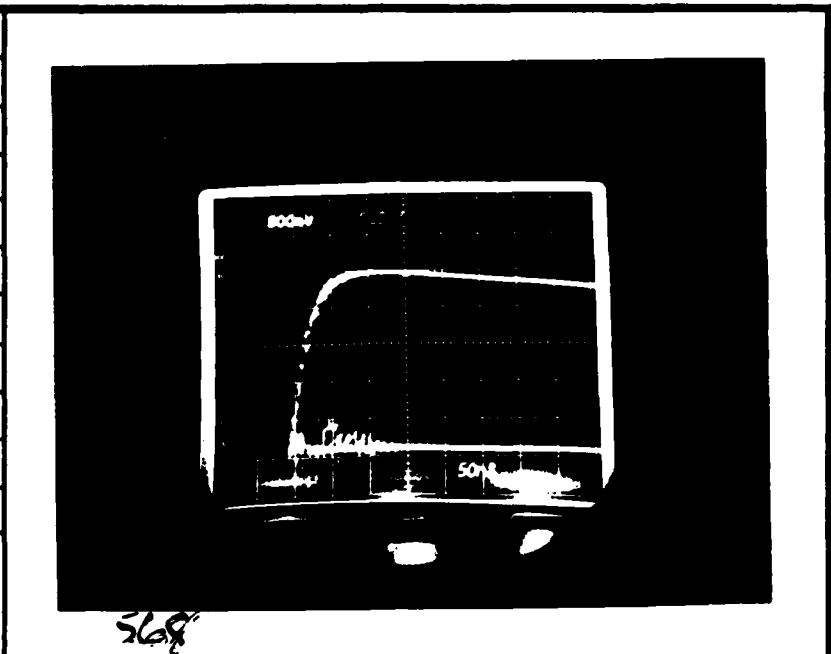
Comments: 507



507
NO REF

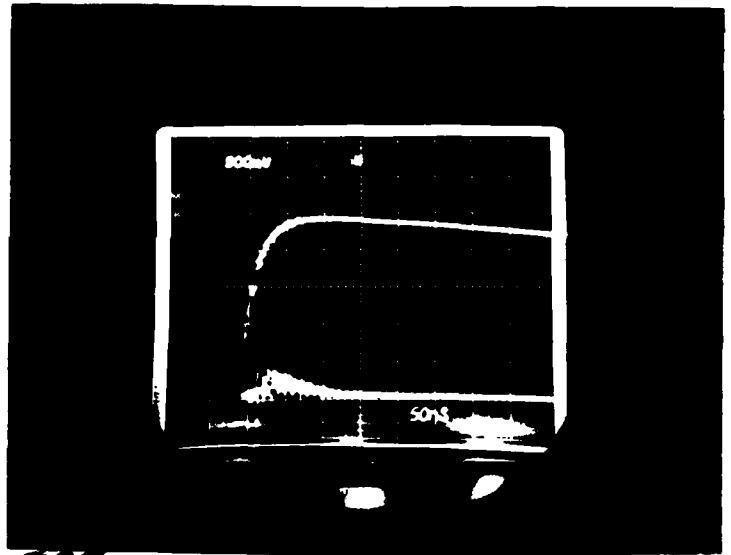
Date 6-3-85
 Test Point 56R-CL-1/10-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500 V
 Data Link

Comments: 508

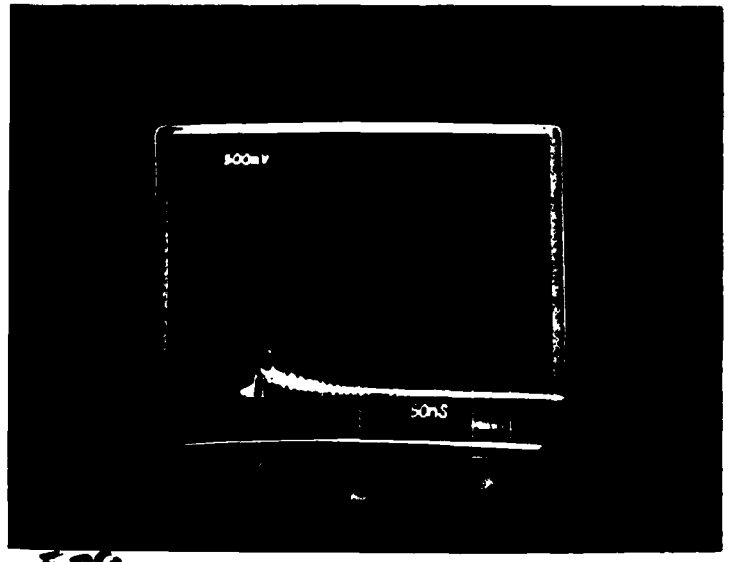


508
WITH REF.

Date 6-3-85
 Test Point 59-CL-410-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level + 4500V
 Data Link
 Comments:

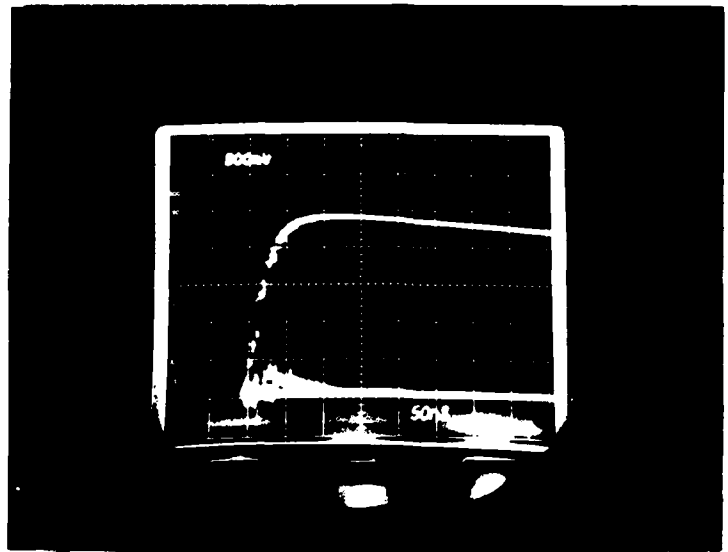


Date 6-3-85
 Test Point 59R CL-410-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level - 4500V
 Data Link
 Comments:



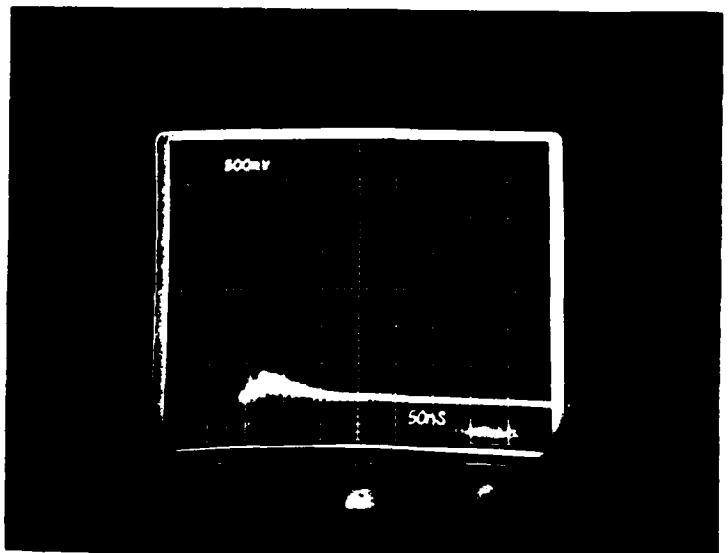
NO REF

Date	6-3-85
Test Point	59-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



570

Date	6-3-85
Test Point	59R-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	.5V (950) ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	

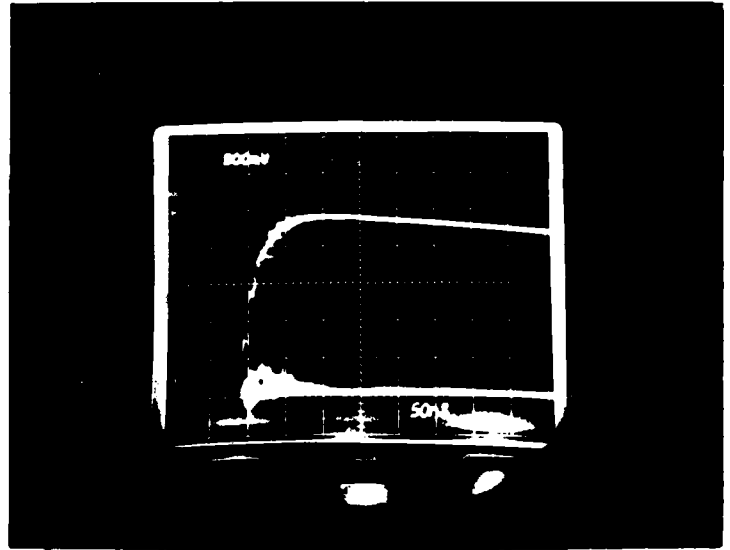


581

NO REF

Date	6-3-85
Test Point	59-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	

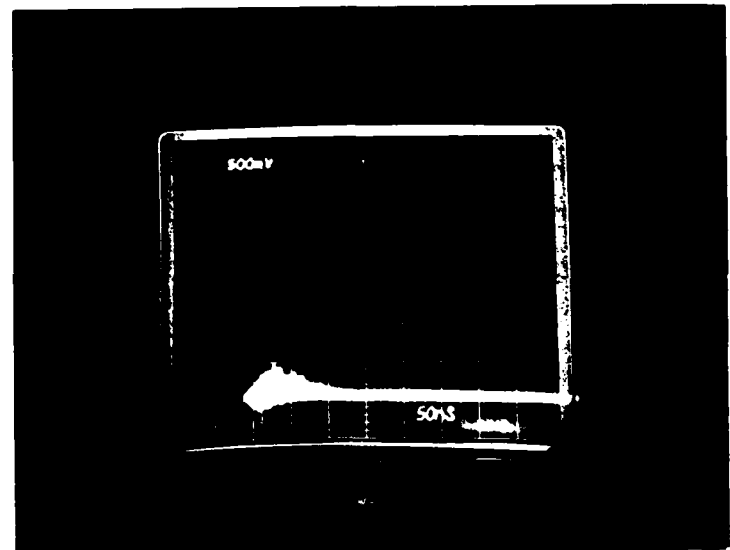
Comments: 500



582

Date	6-3-85
Test Point	59R-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	

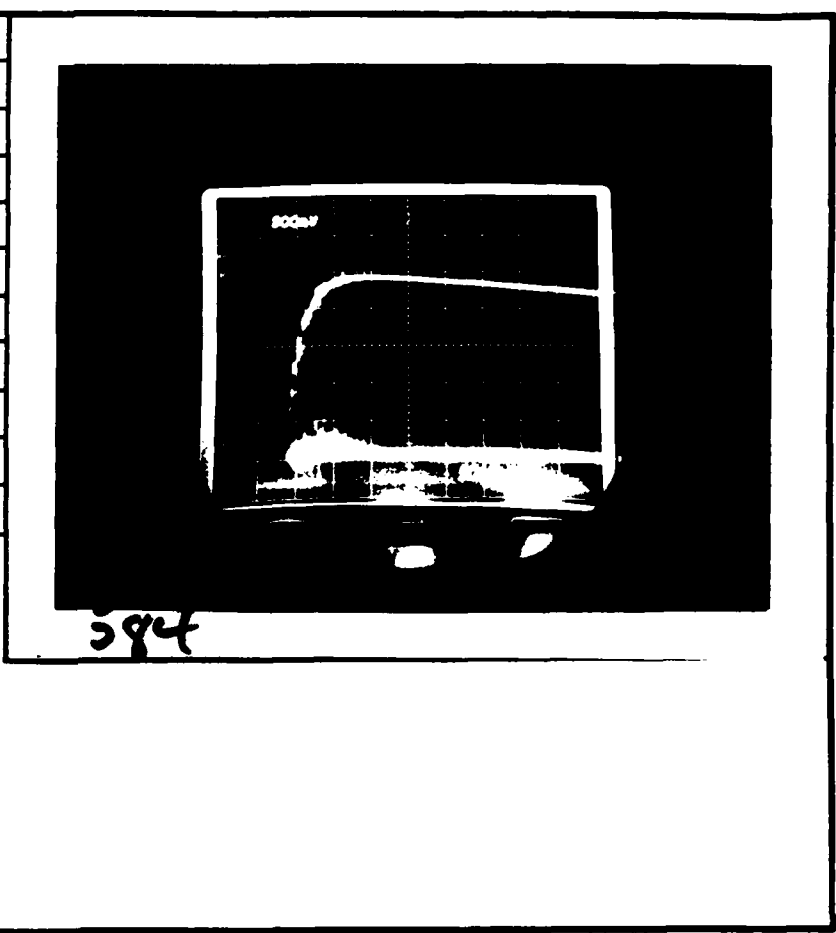
Comments: 500



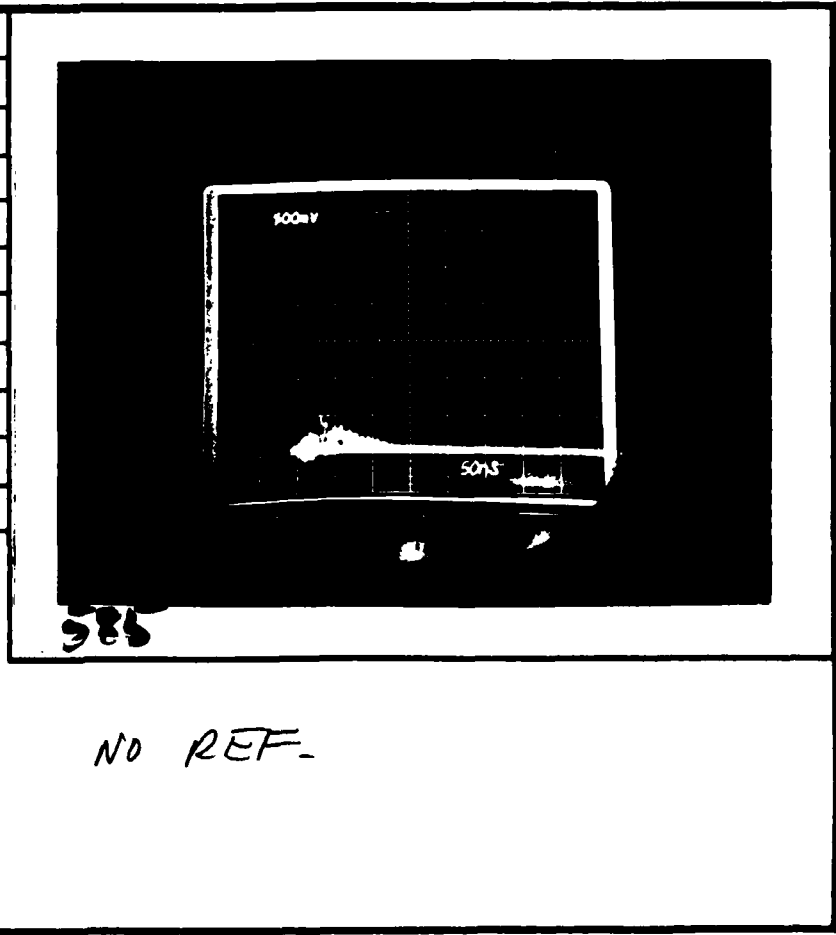
583

NO REF

Date	6-3-85
Test Point	59-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	584

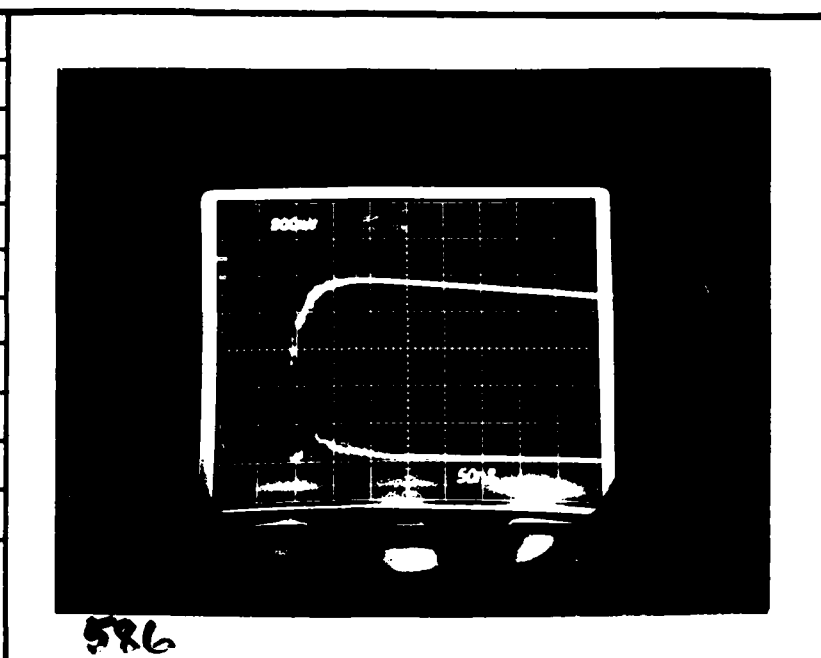


Date	6-3-85
Test Point	59R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	

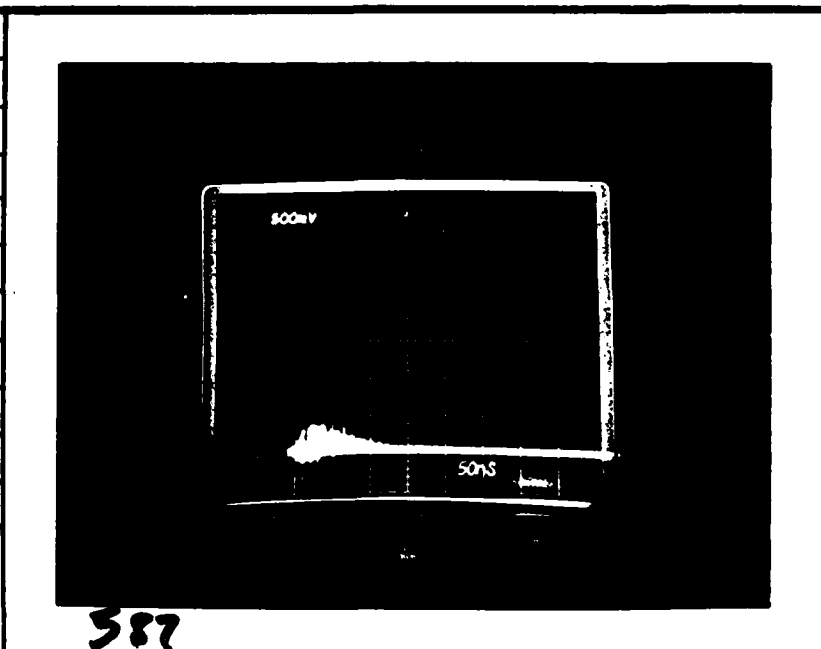


NO REF.

Date	6-3-85
Test Point	59-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	

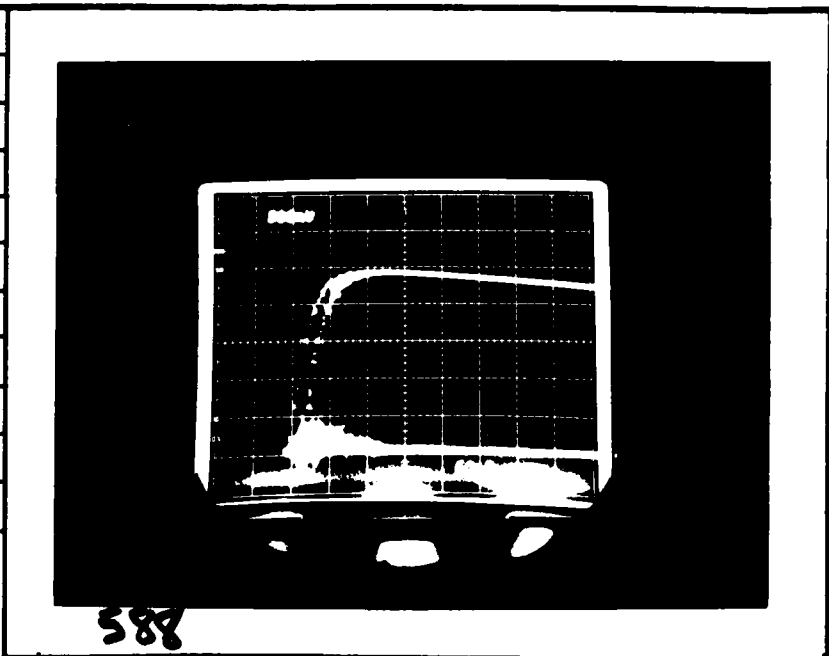


Date	6-3-85
Test Point	59R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	



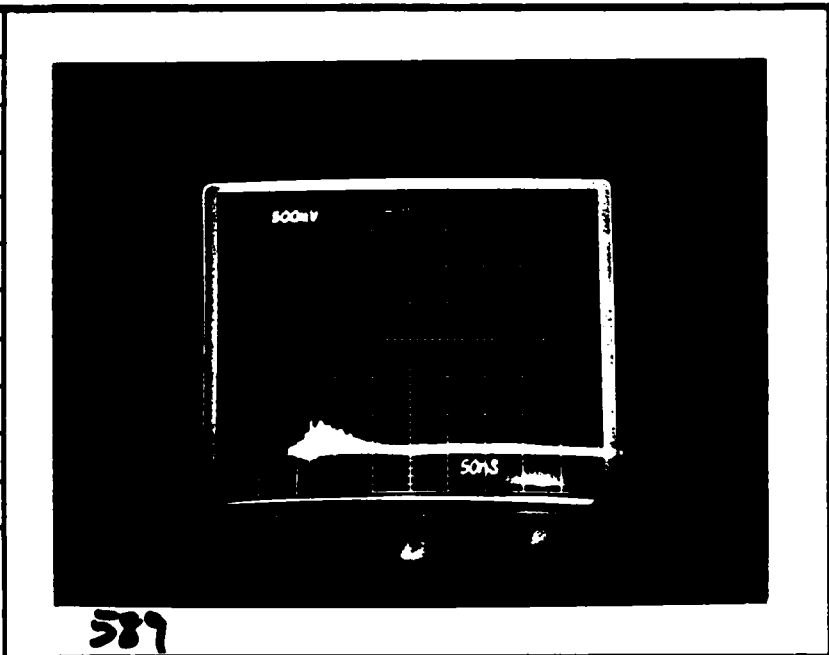
NO REF

Date	6-3-85
Test Point	62-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950 mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	



Comments:

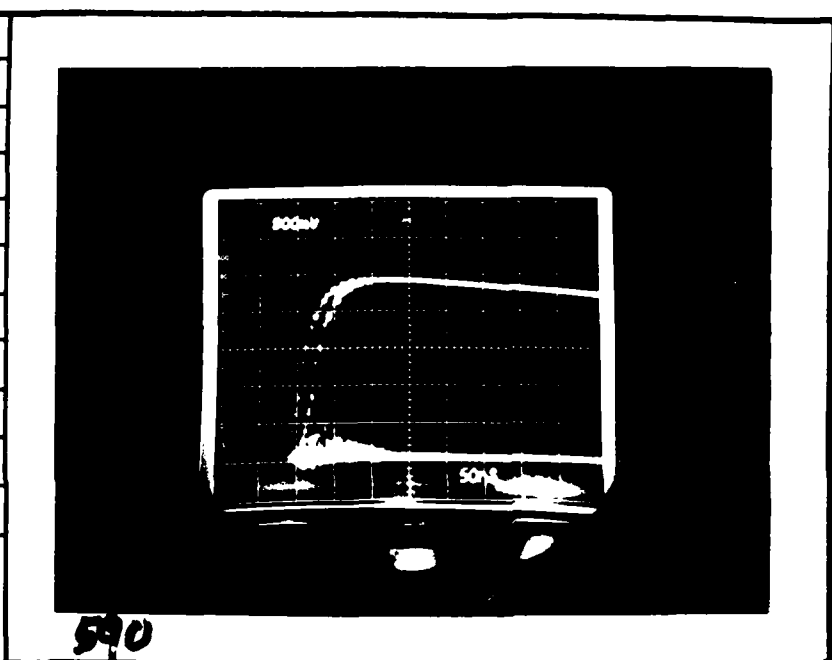
Date	6-3-85
Test Point	62R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	



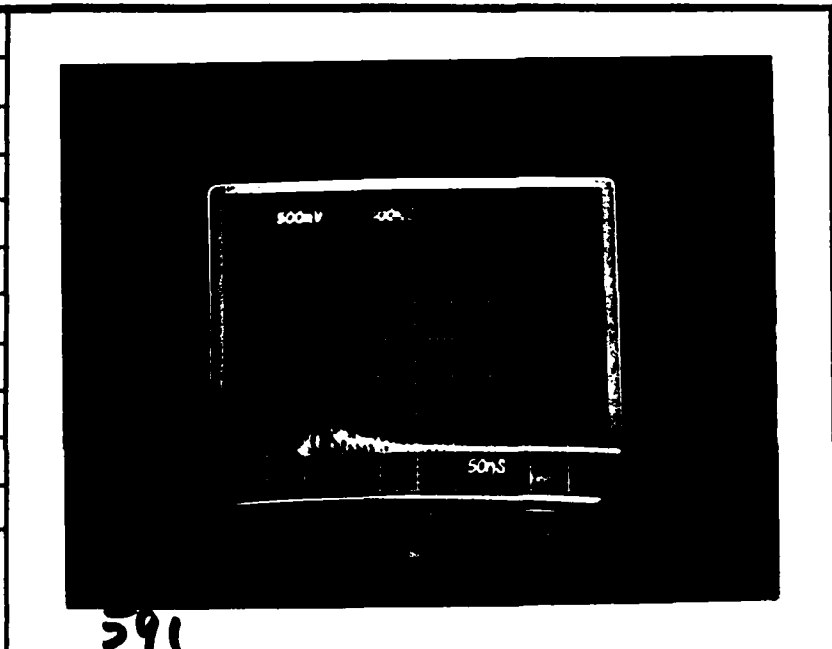
Comments:

NO REF

Date	6-3-85
Test Point	62-CL-410-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+4500V
Data Link	
Comments:	590

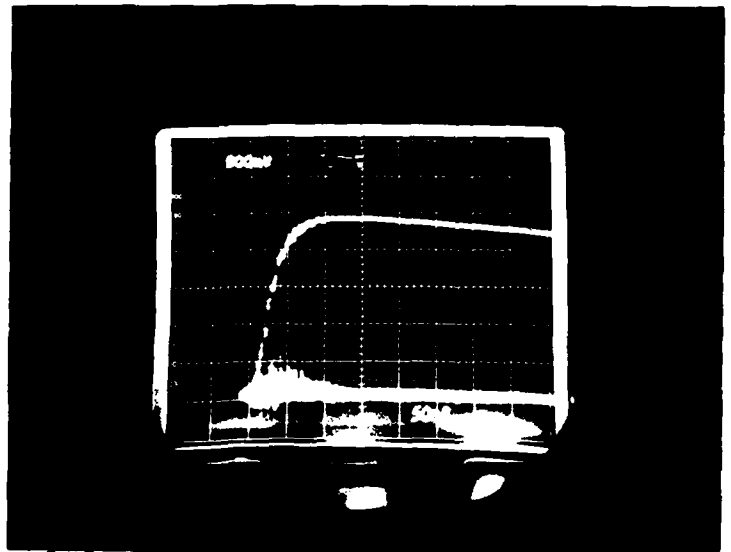


Date	6-3-85
Test Point	62R-CL-410-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	-4500V
Data Link	
Comments:	



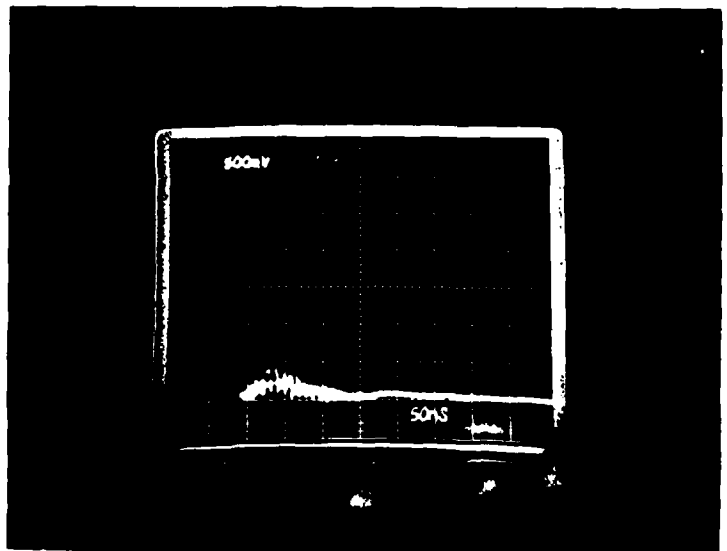
NO REF

Date	6-3-85
Test Point	62-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	



592

Date	6-3-85
Test Point	62-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



593

NO REF

AD-A164 434L

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

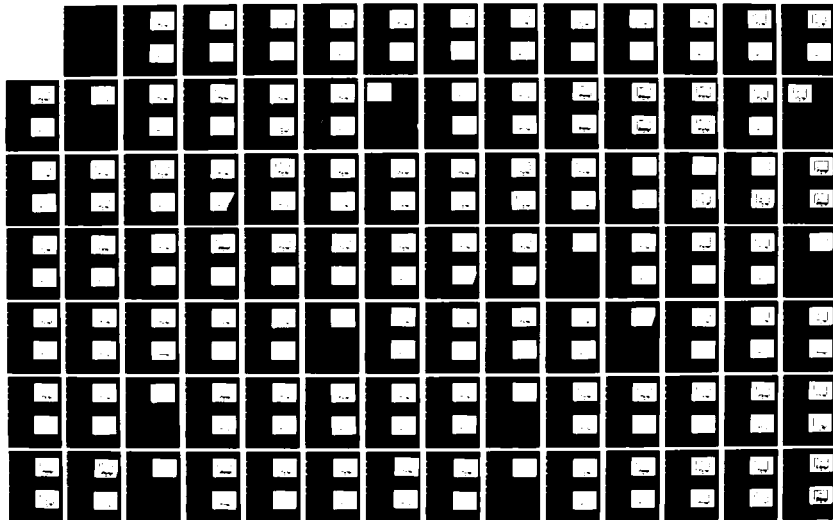
2/3

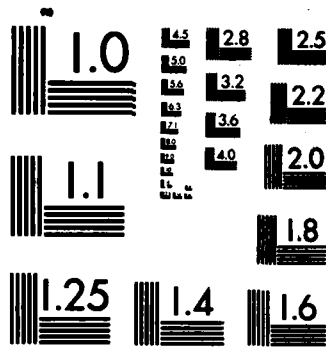
UNCLASSIFIED

NCS-TIB-85-10-VOL-3-SEC-3 DCA100-85-C-0010

F/G 20/14

USGO

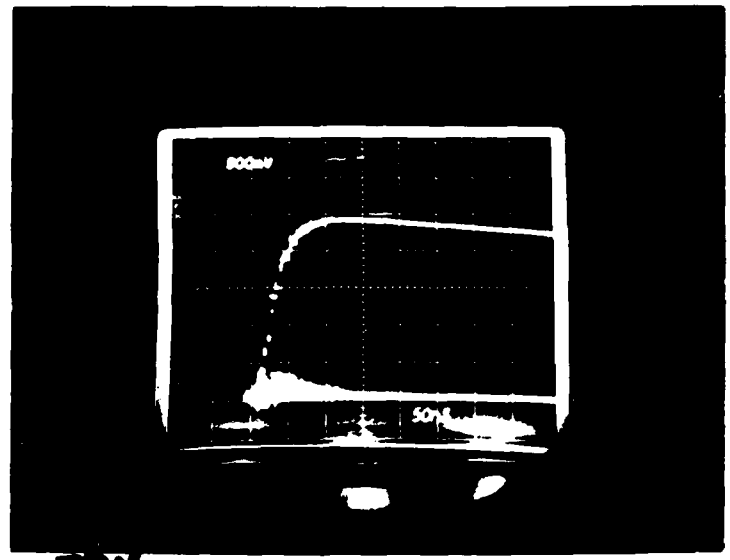




MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Date 6-3-85
 Test Point 62-CL-400-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link

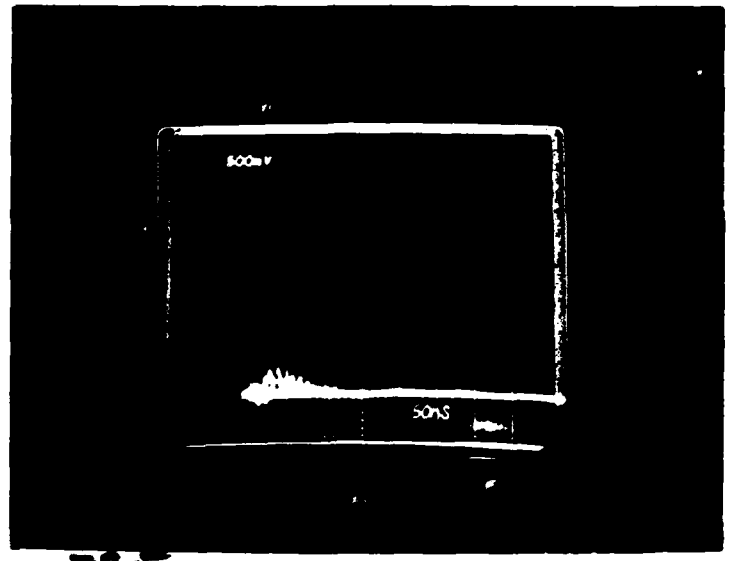
Comments: 594



594

Date 6-3-85
 Test Point 62R-CL-410-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link

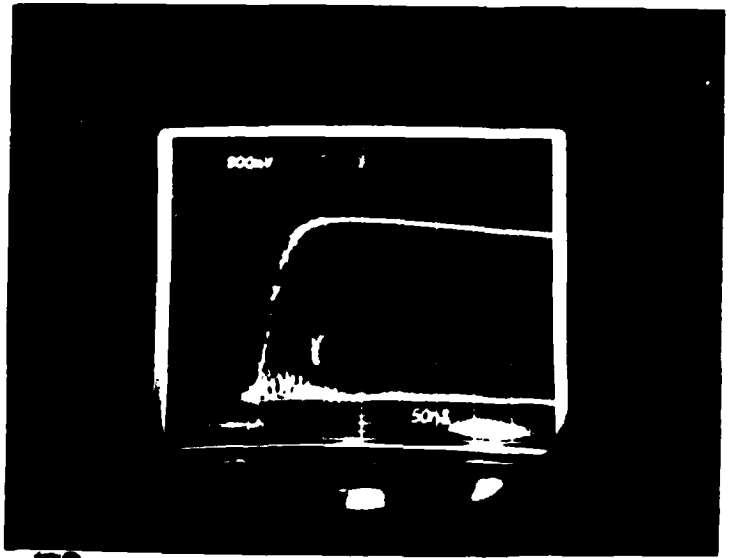
Comments: 595



595

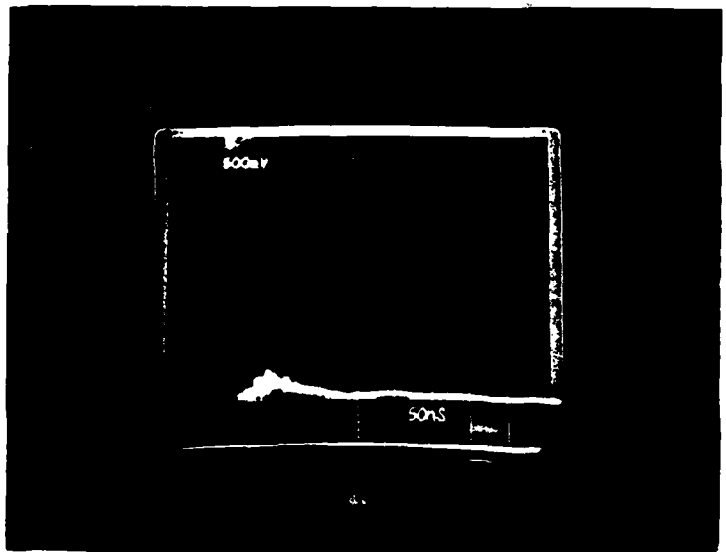
NO REF

Date	6-3-85
Test Point	62-CL-410-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	516



516

Date	6-3-85
Test Point	62R-CL-410-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	517



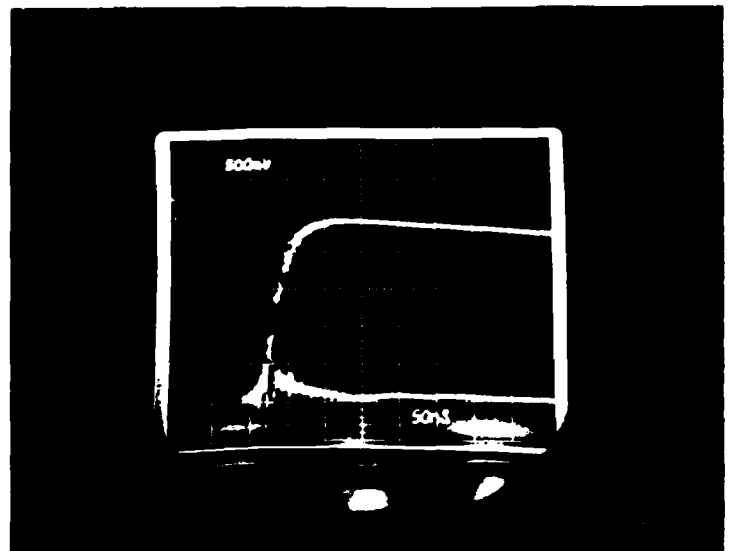
517

NO REF

Date 6-3-85
 Test Point 65-CL-110-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level + 4500V
 Data Link

Comments:

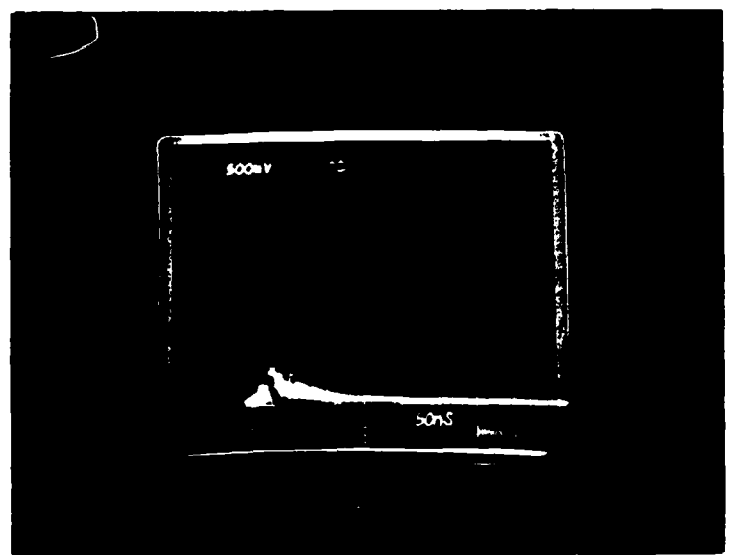
598



598

Date 6-3-85
 Test Point 65R-CL-110-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level - 4500V
 Data Link

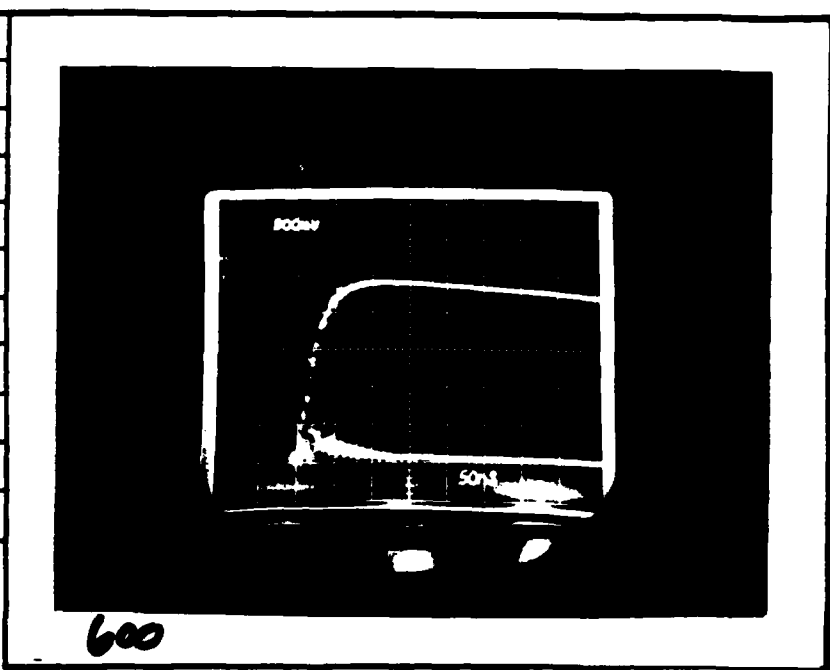
Comments:



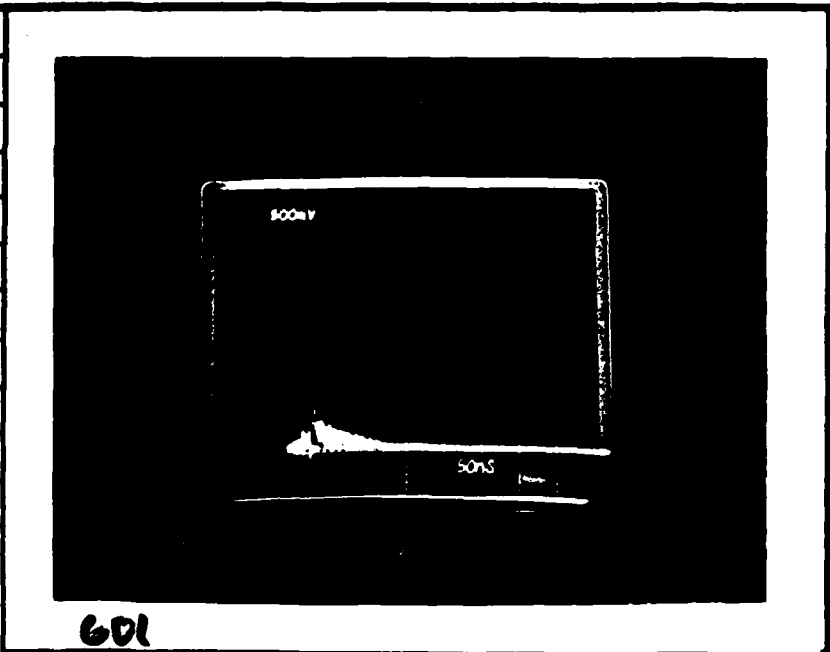
599

NO REF

Date	6-3-85
Test Point	65-CL-410-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+ 4500 V
Data Link	
Comments:	



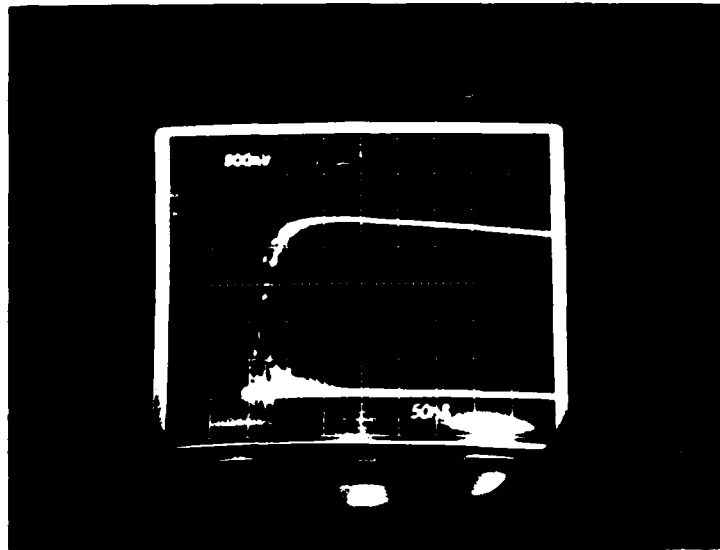
Date	6-3-85
Test Point	65R-CL-410-R
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	- 4500 V
Data Link	
Comments:	



NO REF

Date	6-3-85
Test Point	65-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+ 4500 V
Data Link	

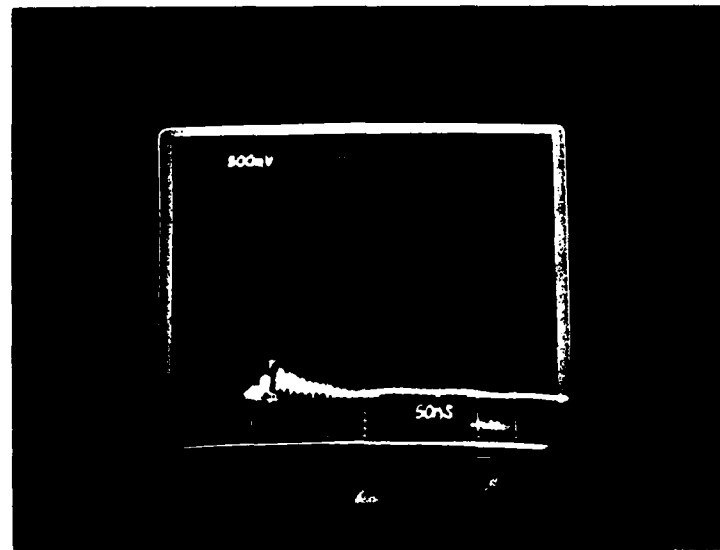
Comments: 6.2



602

Date	6-3-85
Test Point	65R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	- 4500 V
Data Link	

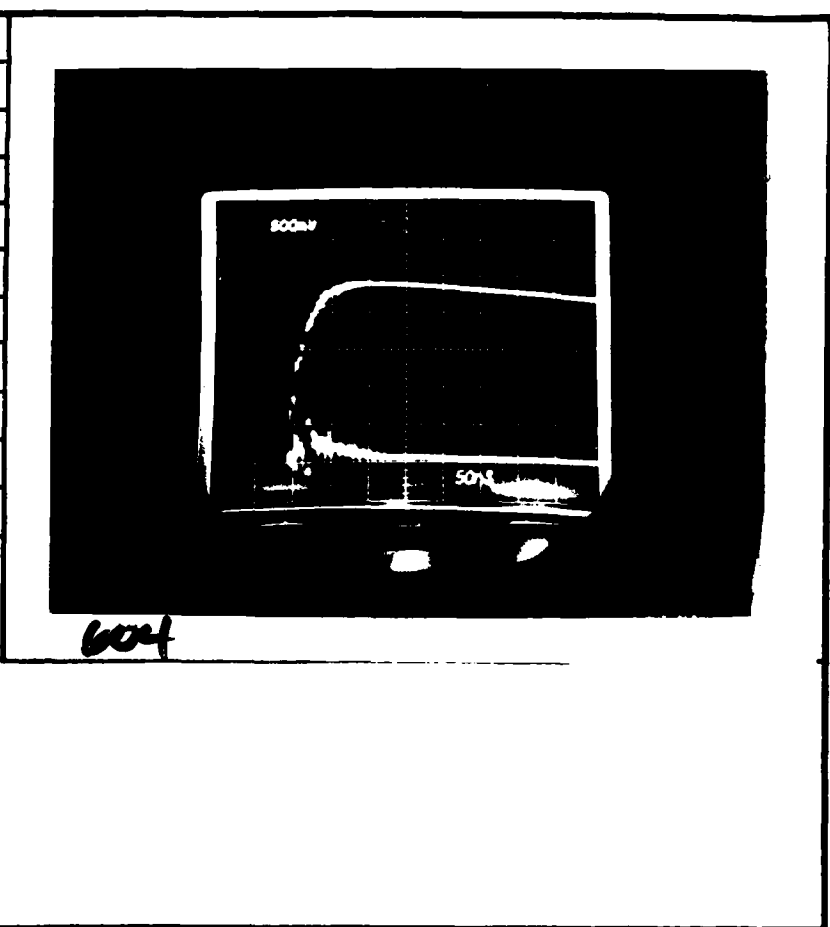
Comments: 6.3



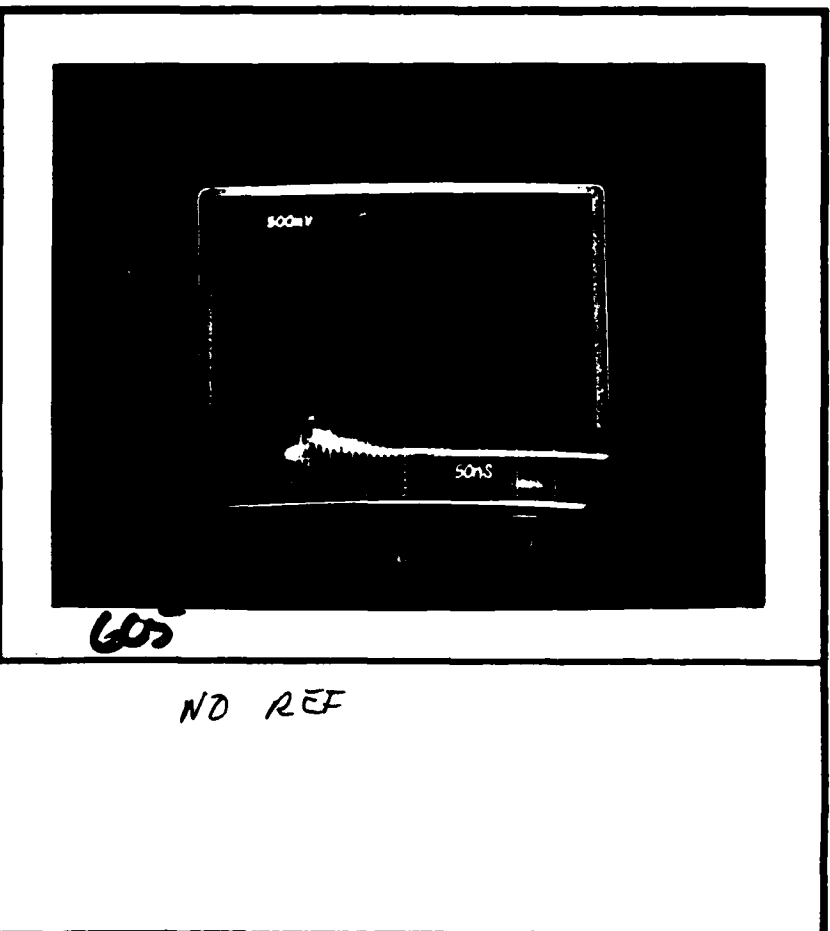
603

NO REF

Date	6-3-85
Test Point	65-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	604

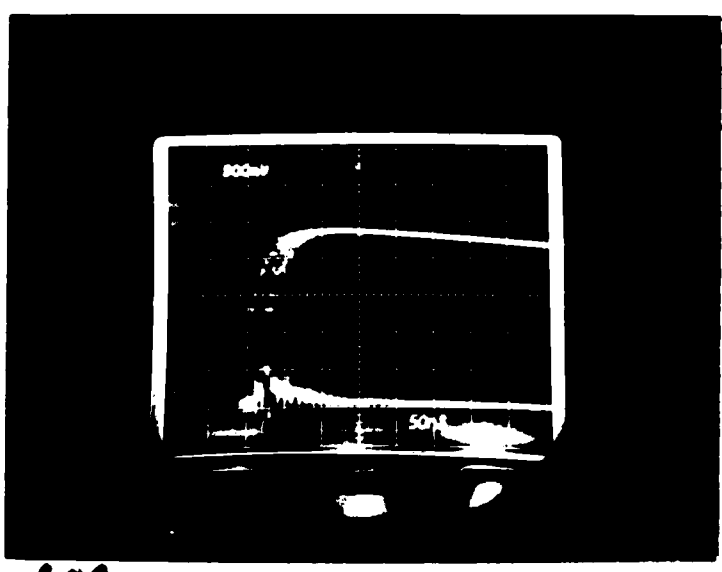


Date	6-3-85
Test Point	65R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	605



Date	6-3-85
Test Point	65-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	

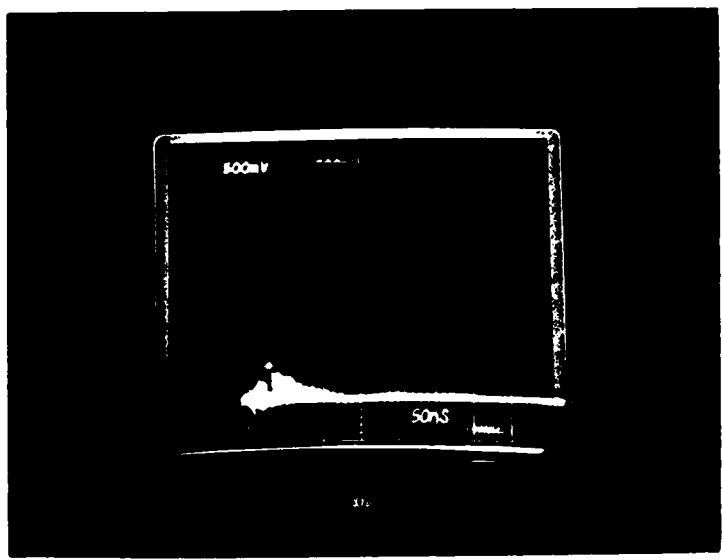
Comments: 606



606

Date	6-3-85
Test Point	65R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	

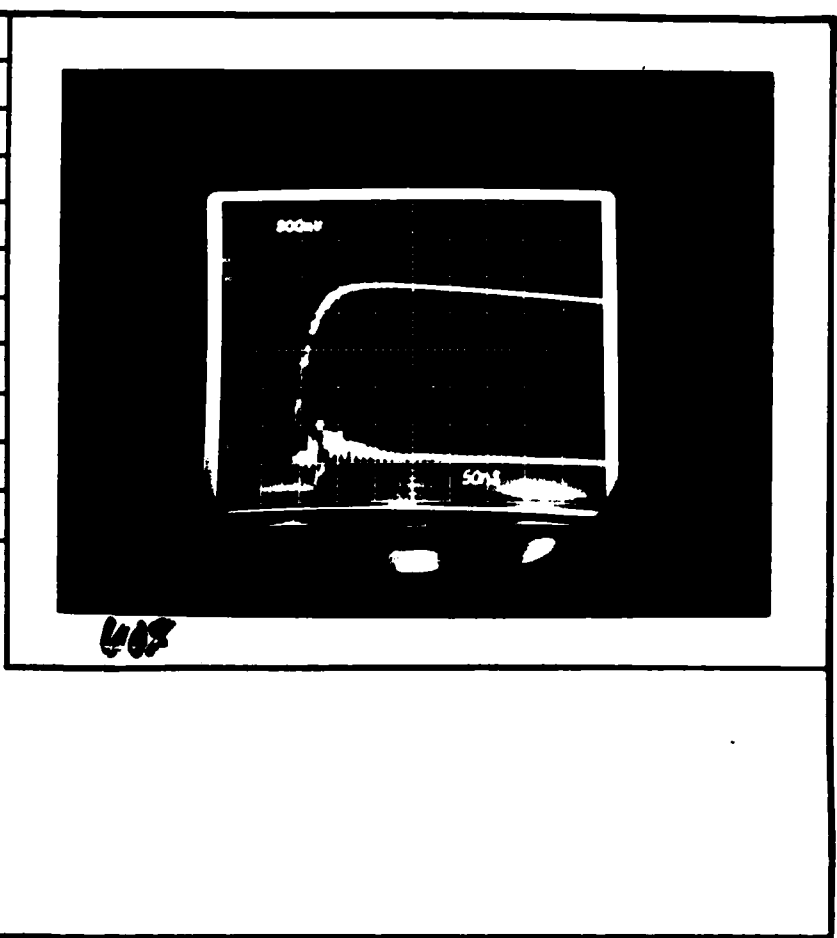
Comments: 607



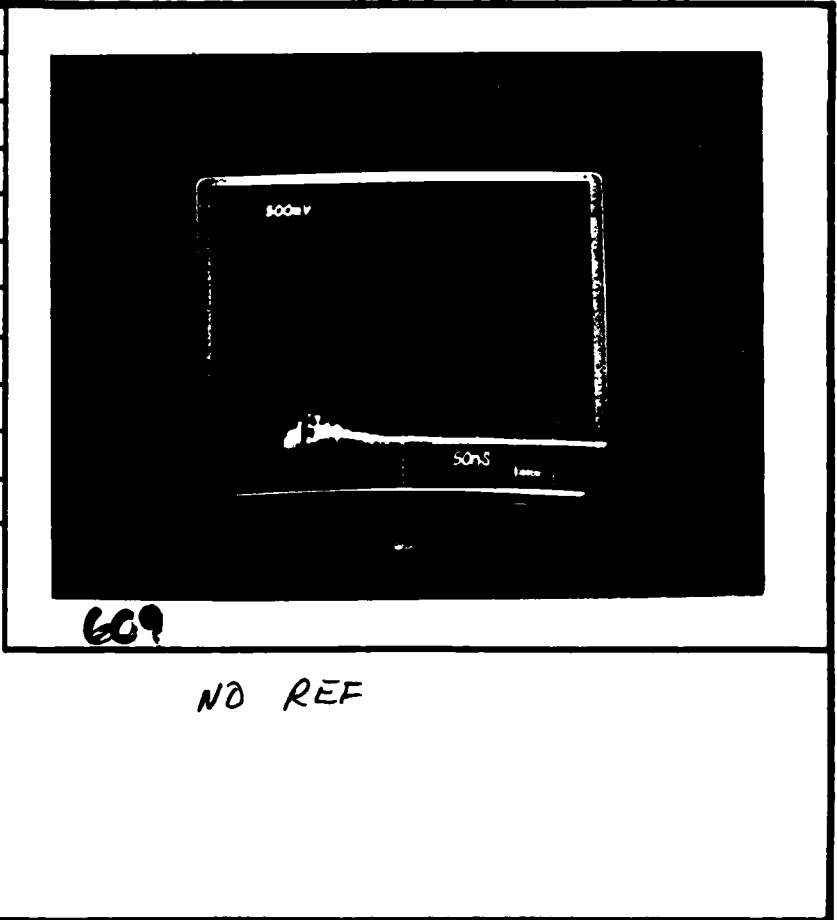
607

NO REF

Date	6-3-85
Test Point	67-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	605



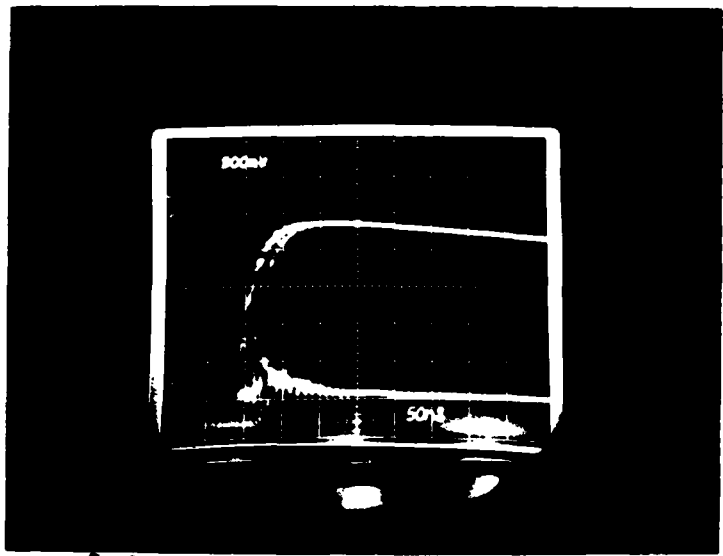
Date	6-3-85
Test Point	67R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	607



NO REF

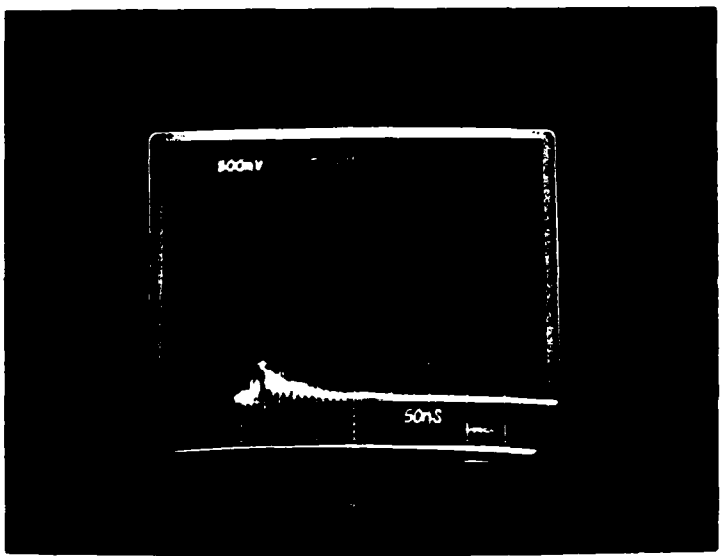
Date	6-3-85
Test Point	67-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	

Comments: 610



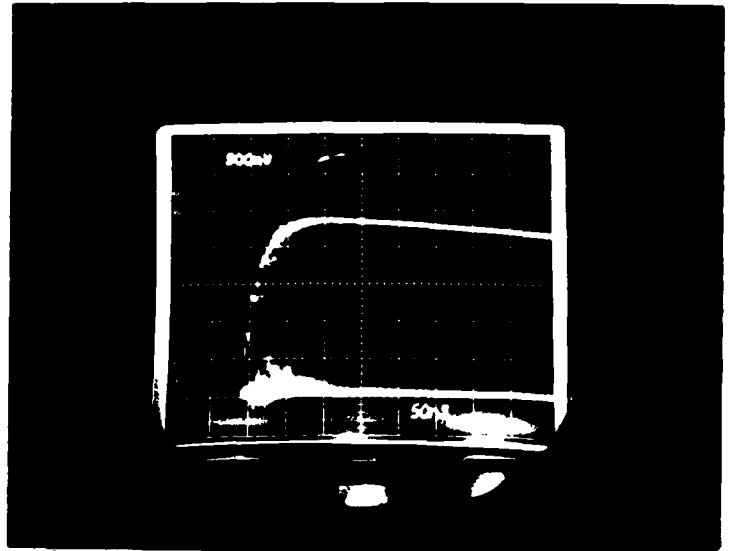
Date	6-3-85
Test Point	67R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	

Comments: 611



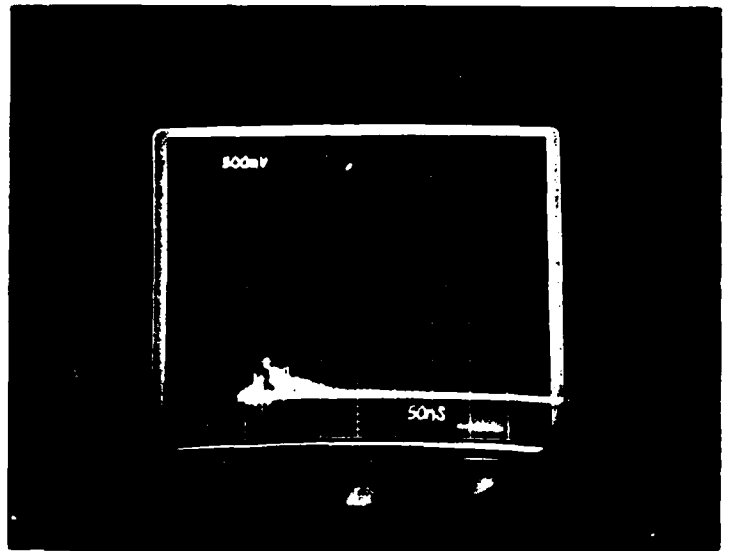
NO REF

Date	6-3-85
Test Point	67-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	612



612

Date	6-3-85
Test Point	67R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	

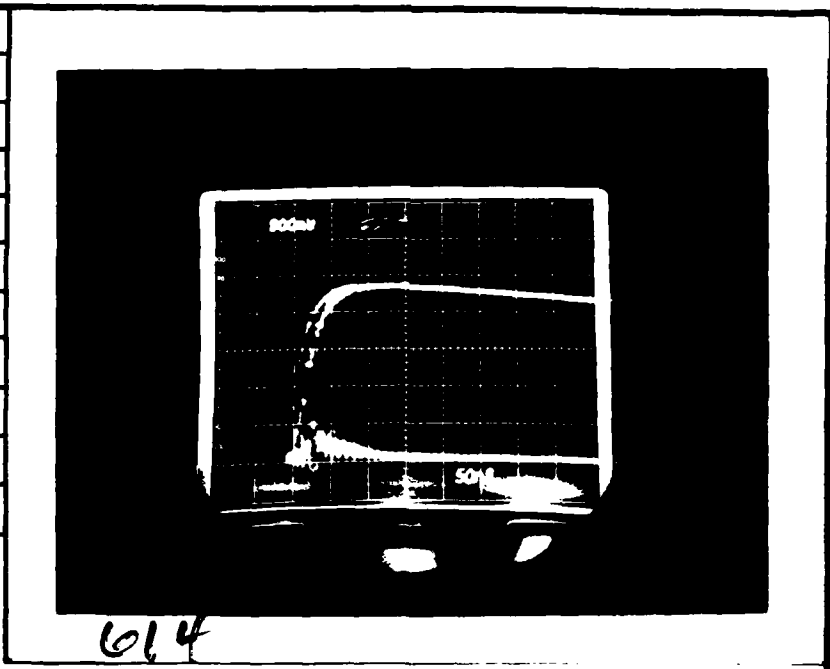


613

NO REF

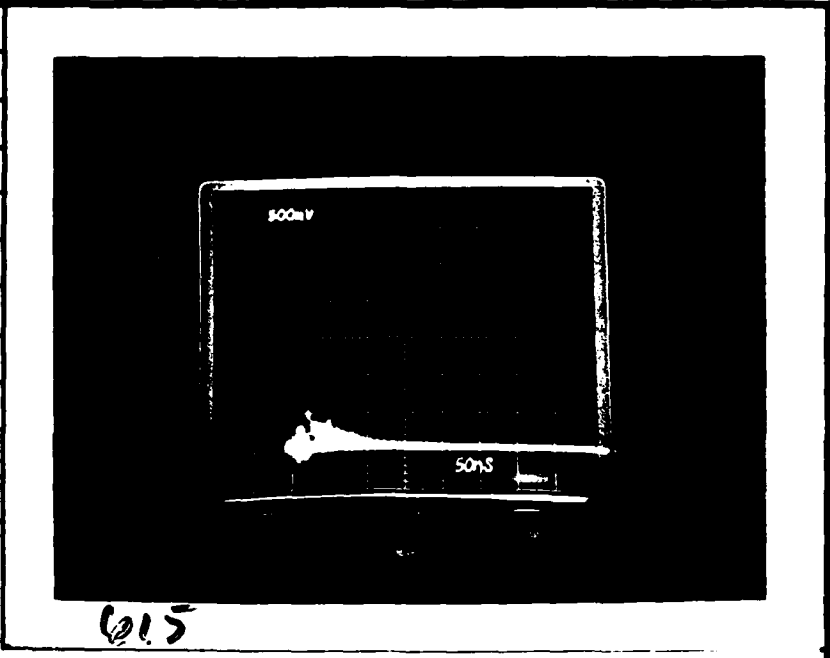
Date 6-3-85
 Test Point 67-CL-1/10-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level + 4500V
 Data Link

Comments: 614



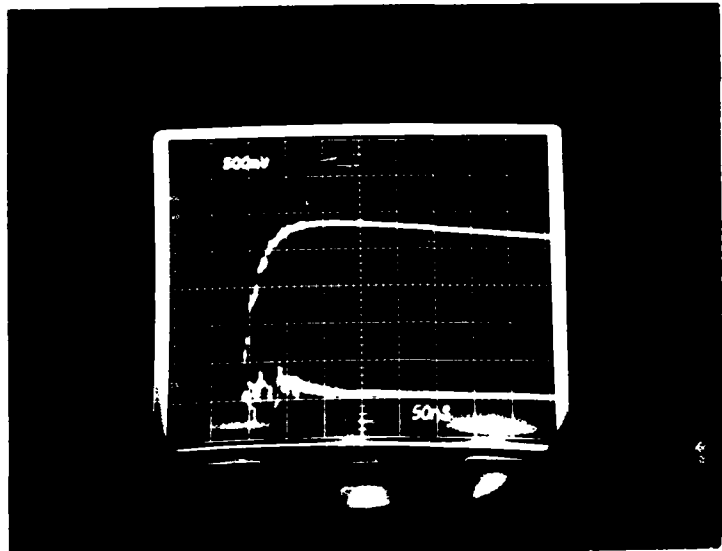
Date 6-3-85
 Test Point 67R-CL-1/10-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level - 4500V
 Data Link

Comments: 615



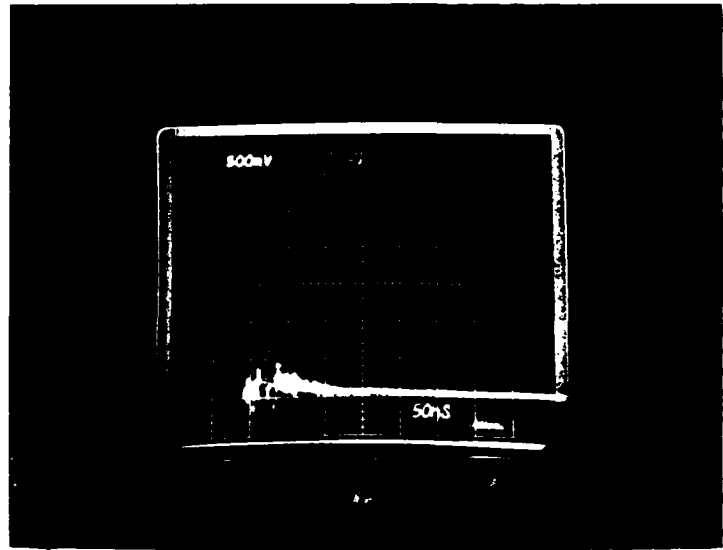
NO REF

Date	6-3-85
Test Point	67-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	6



616

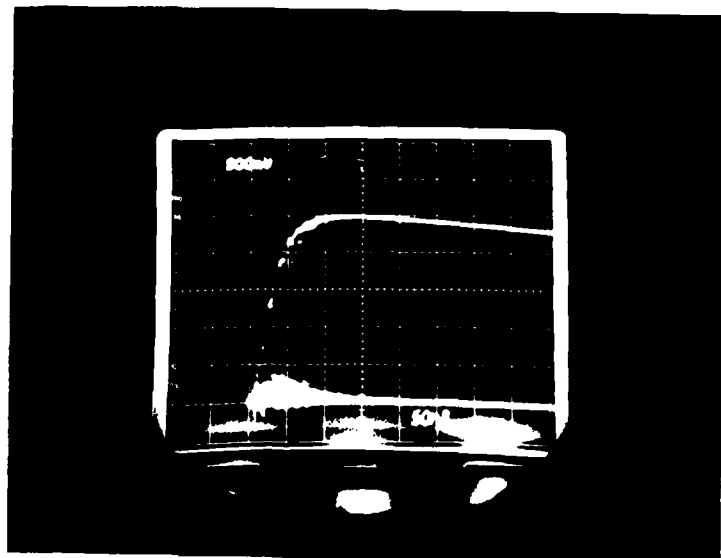
Date	6-3-85
Test Point	67R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	6-1



617

NO REF

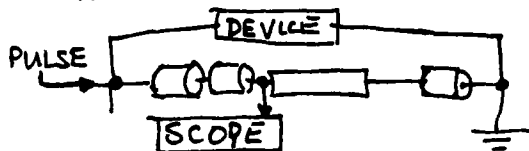
Date	6-4-85
Test Point	68-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	728



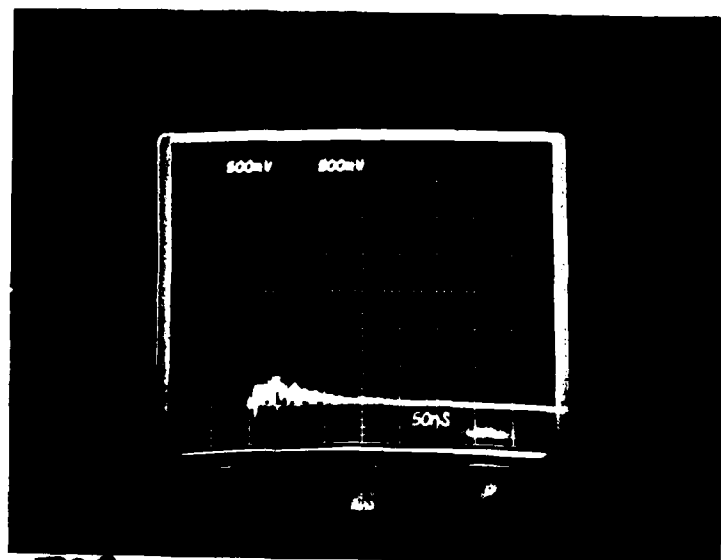
728

LOAD RESISTOR
LOADED WITH 3 FERRITE

BEADS - (TYPE L-C (73 MATERIAL)
FAIR-RITE PRODUCTS CORP



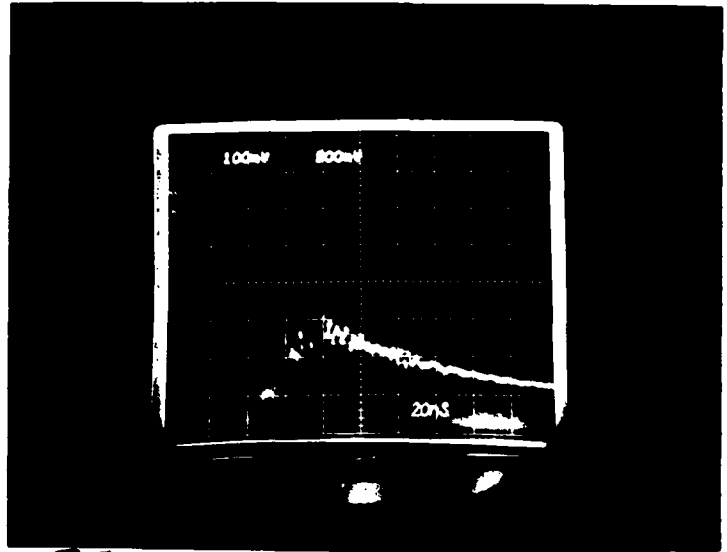
Date	6-4-85
Test Point	6XR-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	729



729

3 BEADS ON LOAD - ~~WW~~

Date	6-4-85
Test Point	68-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	



Comments: 727

727

LOAD RESISTOR HAS 3 BEADS -

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:

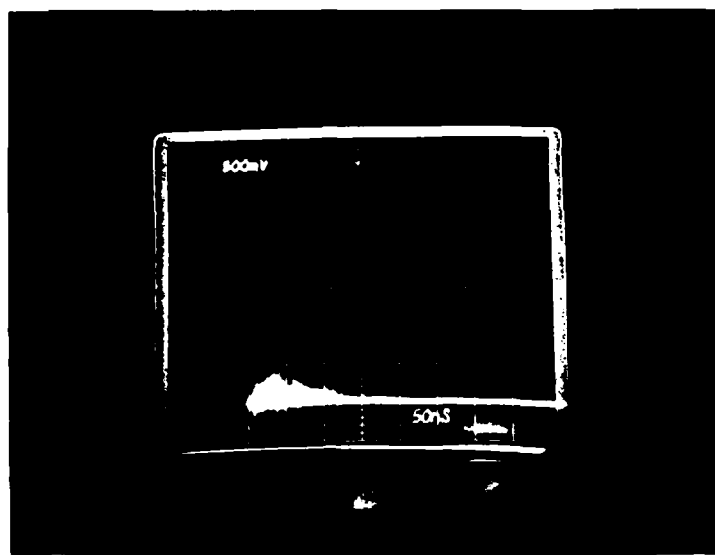
Date	6-4-85
Test Point	68-CL-Y10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500
Data Link	
Comments:	770



730

BEADS ON LOAD $\sim\sim\sim$

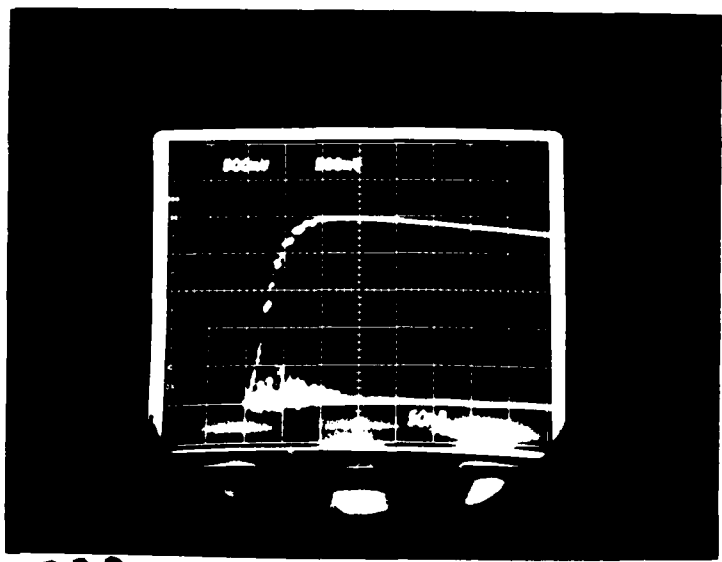
Date	6-4-85
Test Point	68R-CL-Y10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 ✓
Data Link	
Comments:	



731

3-BEADS ON LOAD $\sim\sim\sim$

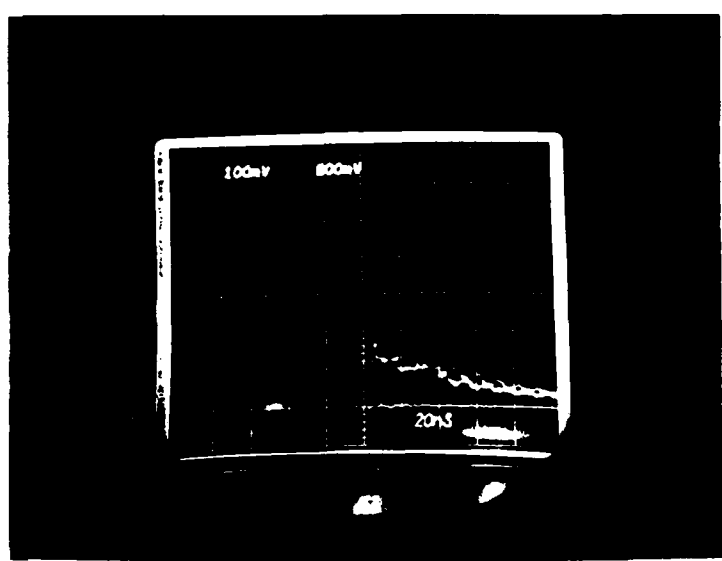
Date 6-4-85
 Test Point 68-CL-1/10-C
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500 V
 Data Link
 Comments:



732

3 BEADS ON LOAD -MMW

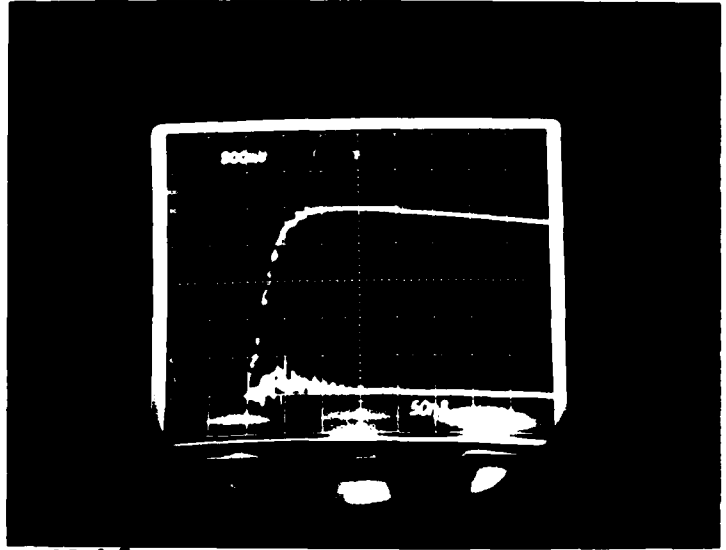
Date 6-4-85
 Test Point 68R-CL-1/10-C
 Amplification dB
 Attenuation 20 dB
 Horizontal 25 ns/div 1
 Vertical .1V (190V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500 V
 Data Link
 Comments:



733

3 BEADS ON LOAD -MMW

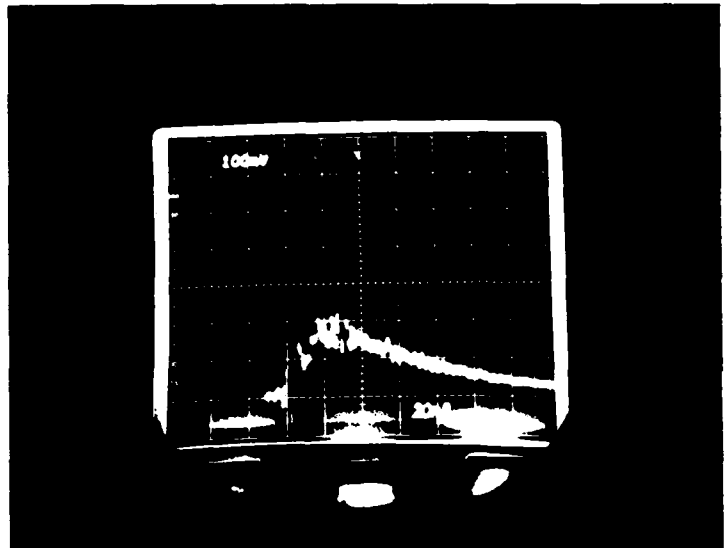
Date 6-4-85
 Test Point 68-CL-410-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 50ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link
 Comments: 734



734

3 BEADS ON LOAD - MW

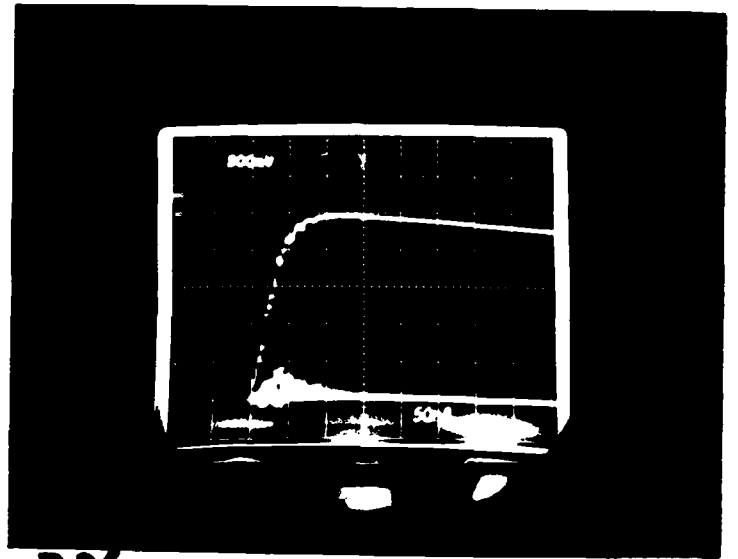
Date 6-4-85
 Test Point 68R-CL 1/20-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 20 ns/div 1
 Vertical .1V (190V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link
 Comments: 735



735

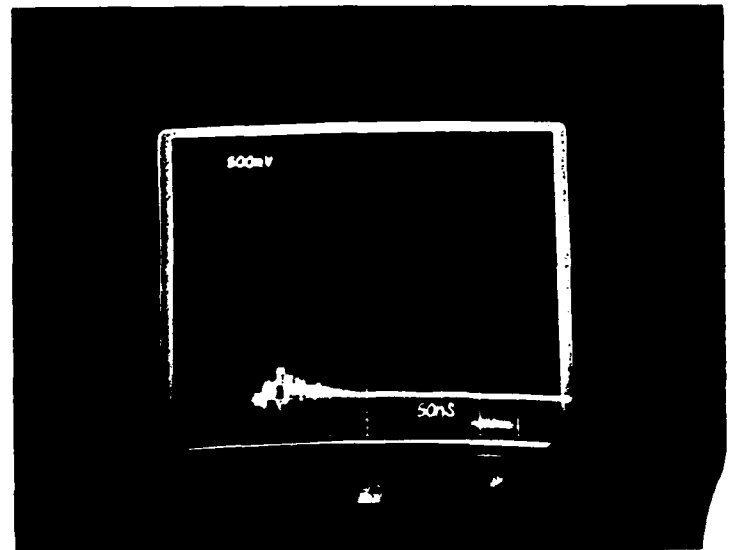
3 BEADS ON LOAD - MW

Date 6-4-85
 Test Point 68-CL-1/10-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950V) 5V/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link
 Comments:

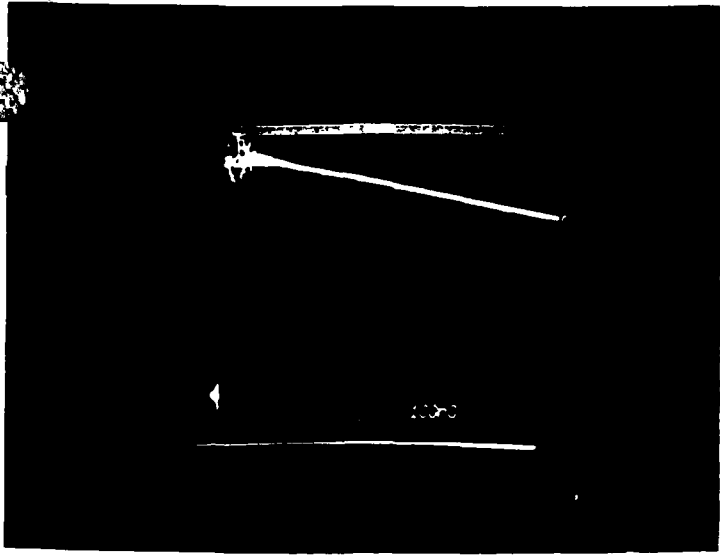


3 BEADS ON LOAD -MM-

Date 6-4-85
 Test Point 68R-CL-1/10-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950V) 5V/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link
 Comments:



3 BEADS ON LOAD -MM-



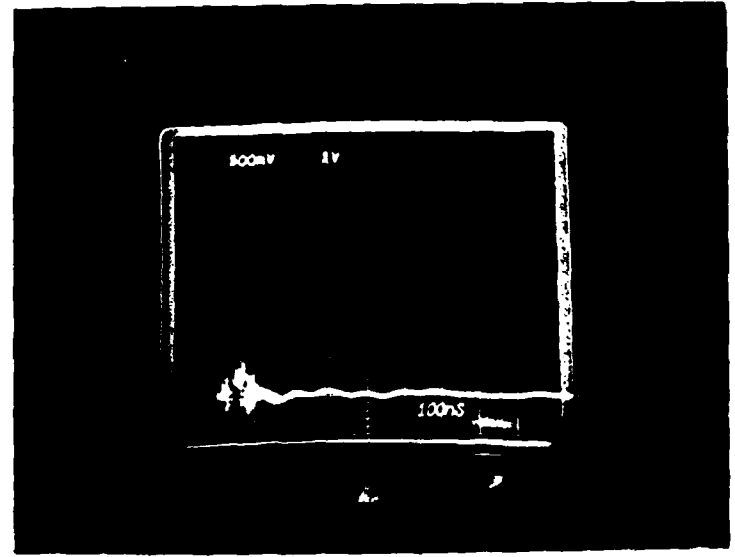
REF ON BACK

Date	5-28-85
Test Point	70-BL-1/10-K
Amplification	0 dB
Attenuation	20 dB
Horizontal	100 ns/div 1
Vertical	5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4.5 kV
Data Link	

*

Comments: 328

4.5 kV



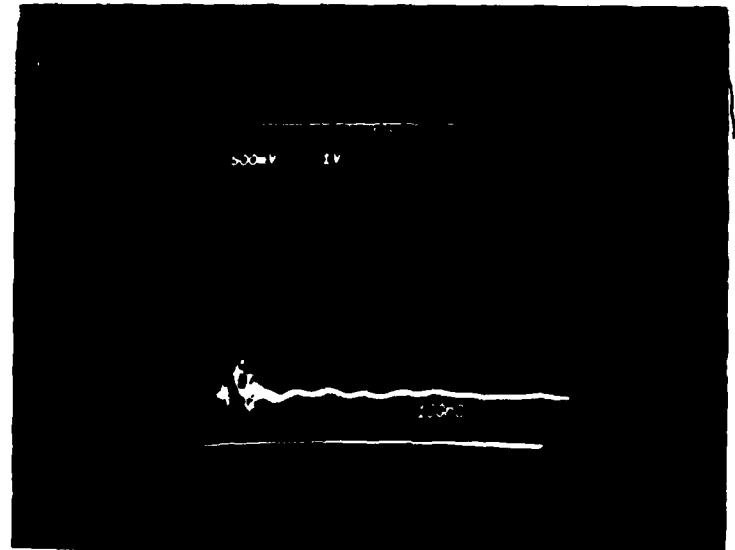
* ALL FOLLOWING PULSES REFLECT SCOPE PREAMP ERROR OF INDICATING 2 TWICE THE ACTUAL VOLTAGE IT IS REALLY 600V PER DIVISION

Date	5-28-85
Test Point	70R-BL-1/10-K
Amplification	0 dB
Attenuation	20 dB
Horizontal	100 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4.5 kV
Data Link	

*

Comments: 329

* 600V/div

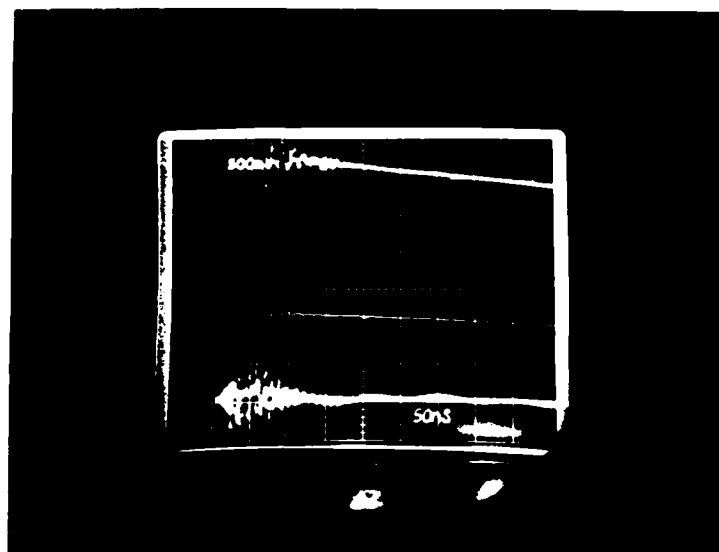


Date	5-28-85
Test Point	70-BL-1/10-L
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5KV
Data Link	
Comments:	330

*

50ns/

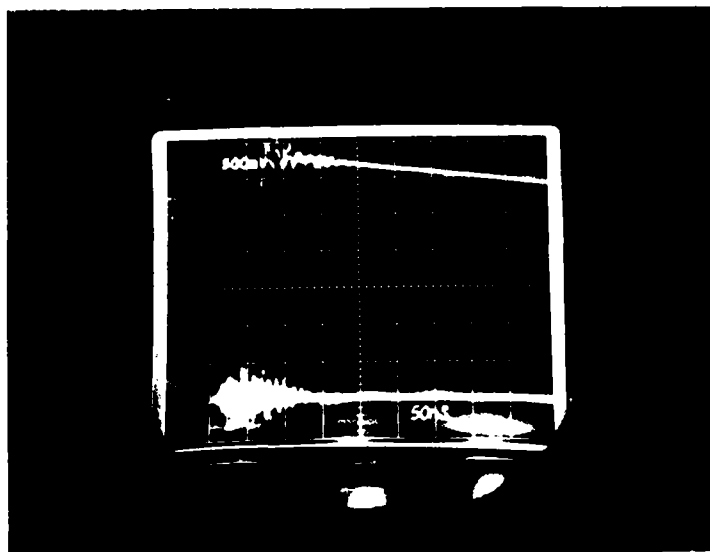
* 600 v/div



330

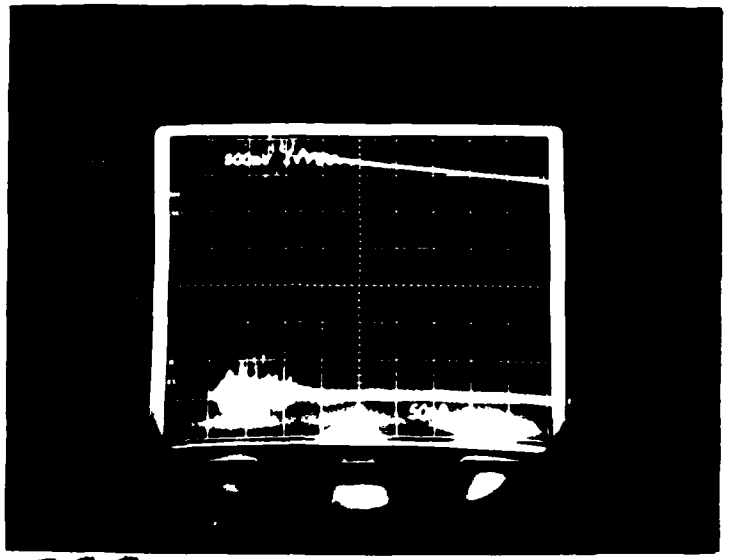
Date	5-28-85
Test Point	70R-BL-1/10-L
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5KV
Data Link	
Comments:	331

* 600 v/div



331

Date	5-28-85
Test Point	70-BL-1/10-M
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5KV
Data Link	
Comments:	332

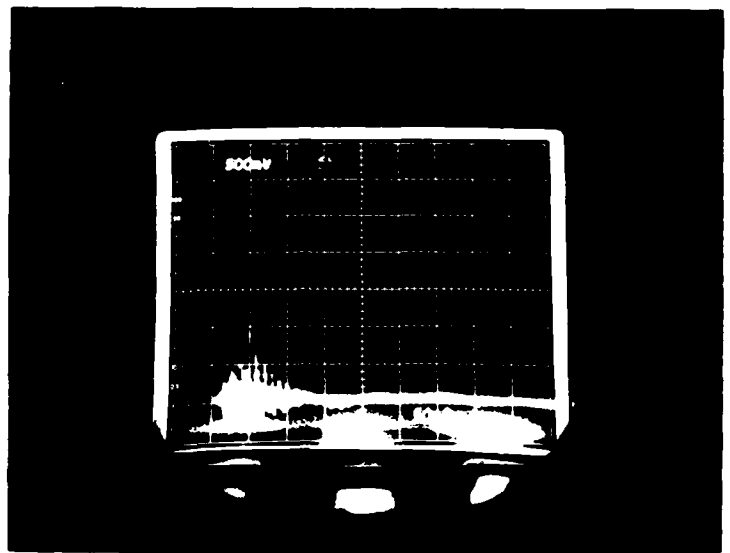


332

*

* 600 v/div

Date	5-28-85
Test Point	70R-BL-1/10-M
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5KV
Data Link	
Comments:	333



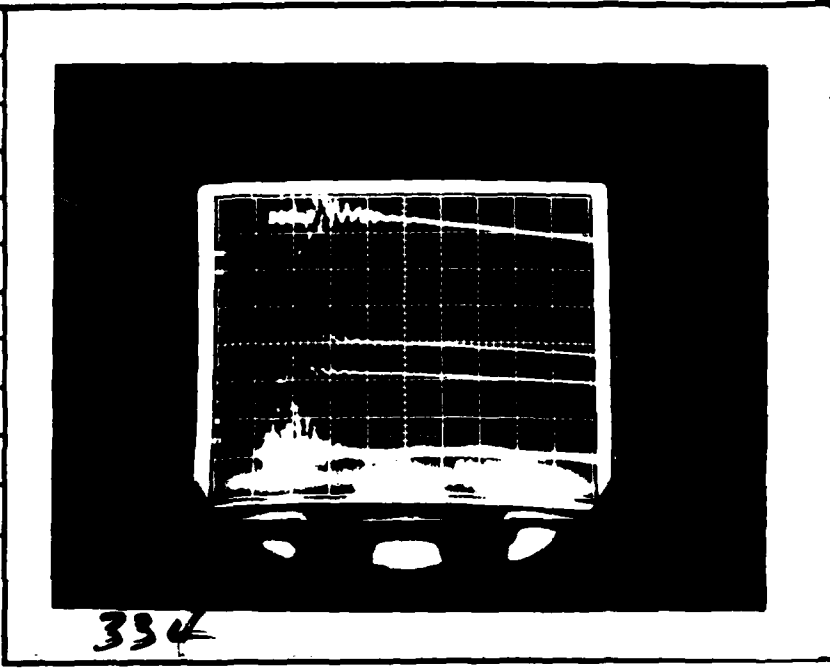
333

*

NO REF

* 600 v/div

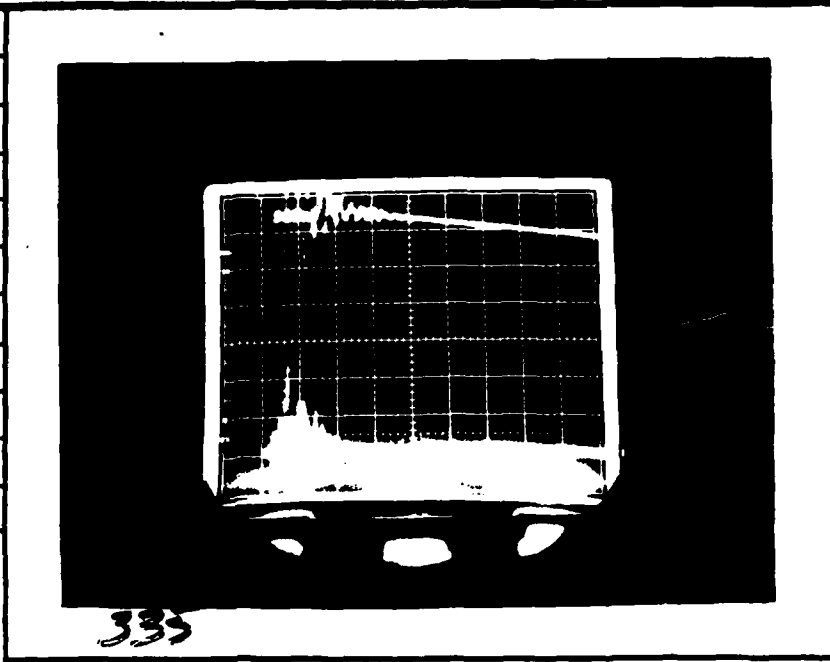
Date	5-28-85
Test Point	70-BL-1/10-N
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5kV
Data Link	
Comments:	334



* 600 v/div

* 600 v/div

Date	5-28-85
Test Point	70R-BL-1/10-N
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5kV
Data Link	
Comments:	335

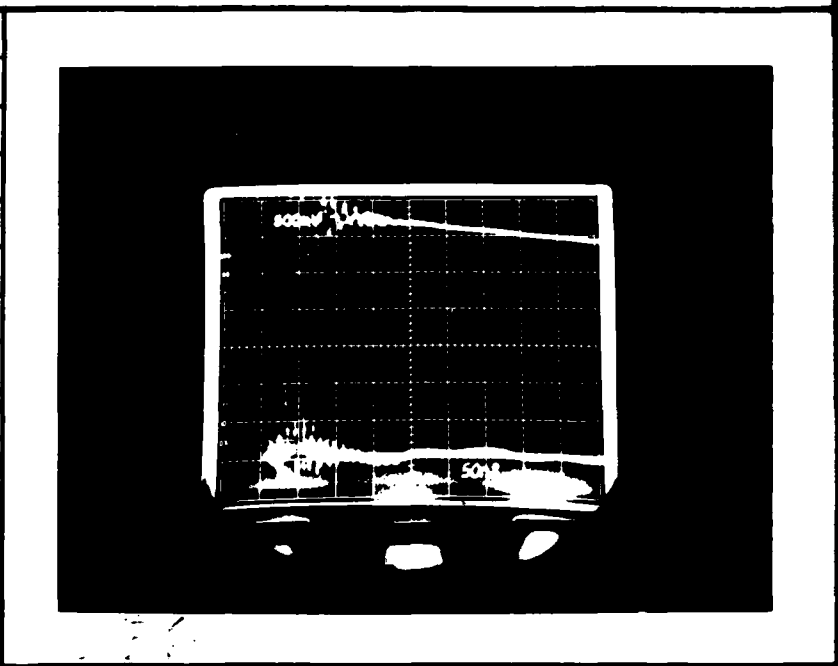


* 600 v/div

* 600 v/div

Date	5-28-85
Test Point	70-BL-1/10-0
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5KV
Data Link	
Comments:	336

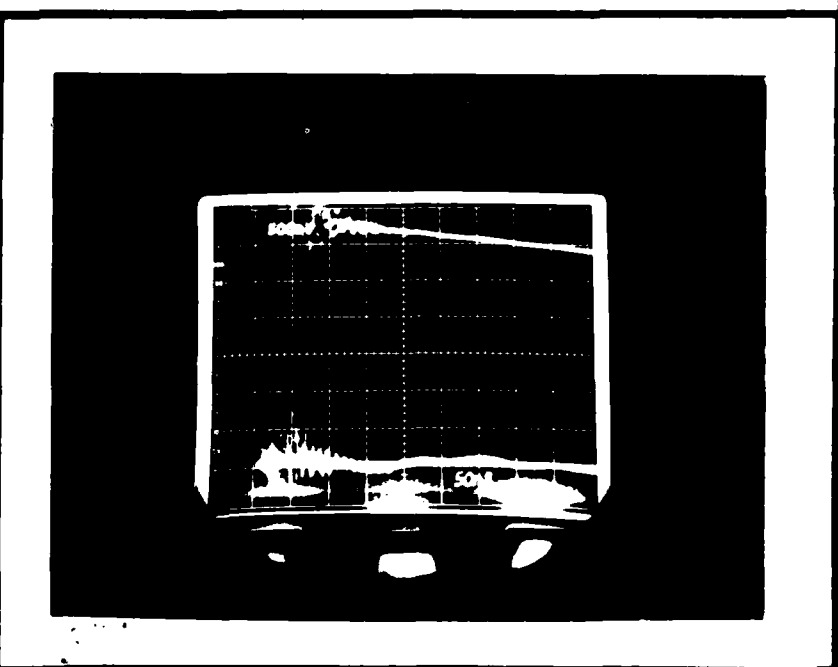
* Vertical .5V(1200V) mV/div 1



* 600V/div

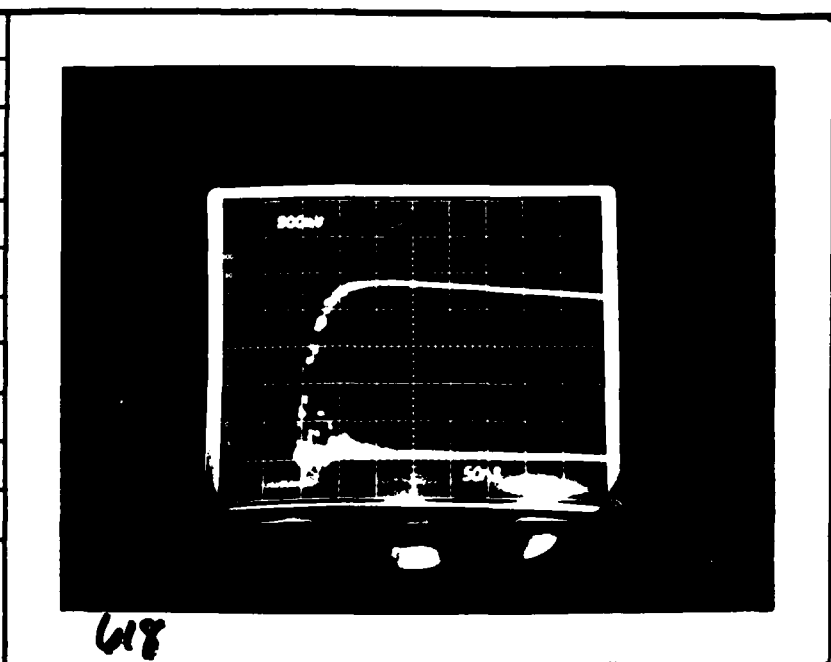
Date	5-28-85
Test Point	70R-BL-1/10-0
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5KV
Data Link	
Comments:	337

* Vertical .5V(1200V) mV/div 1

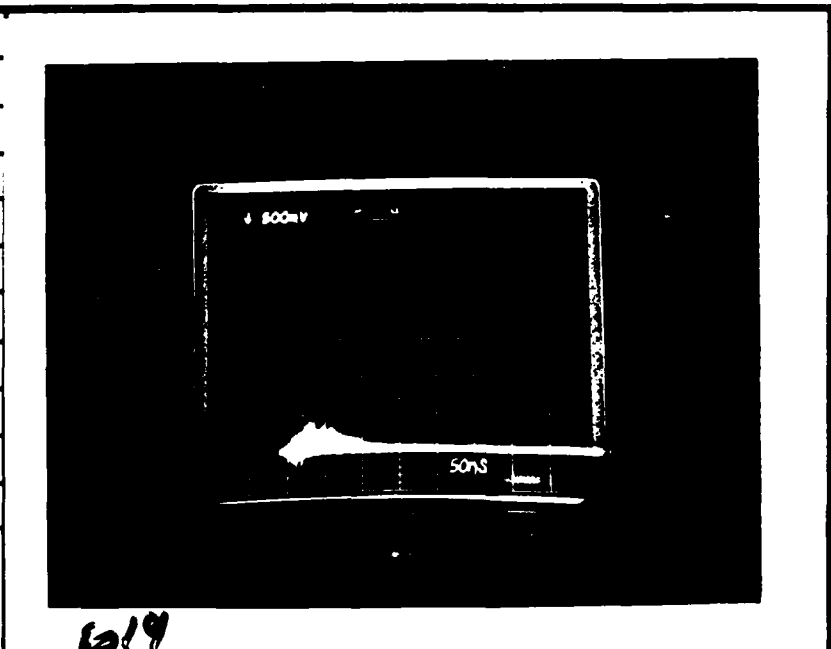


* 600V/div

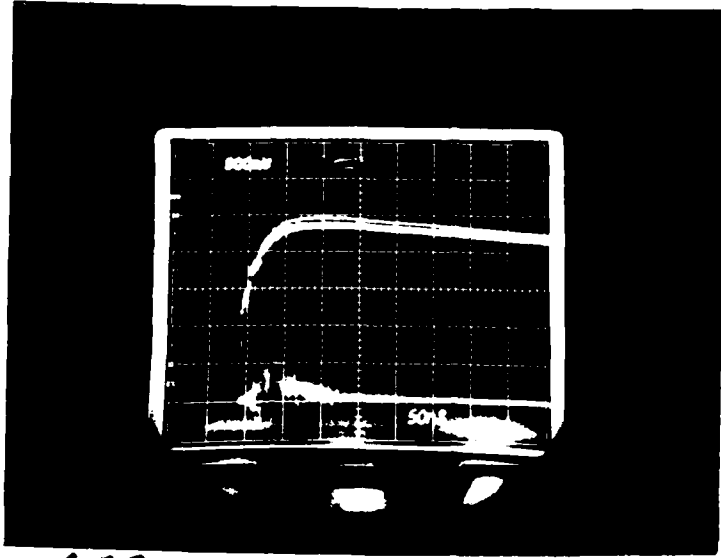
Date	6-3-85
Test Point	71-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



Date	6-3-85
Test Point	71R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	619

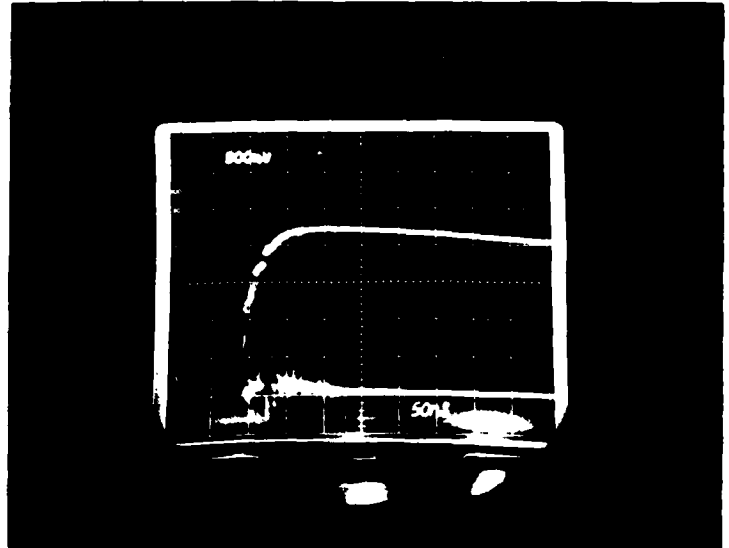


NO REF



622

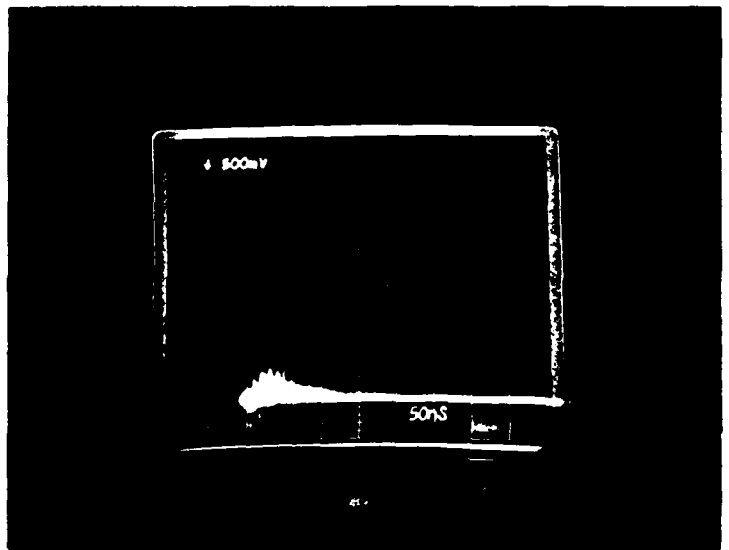
Date	6-3-85
Test Point	71-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+4500 V
Data Link	
Comments:	620



620

SEE 622 ON BACK FOR REF.
VOLTAGE ADJUSTED

Date	6-3-85
Test Point	71R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	-4500 V
Data Link	
Comments:	621

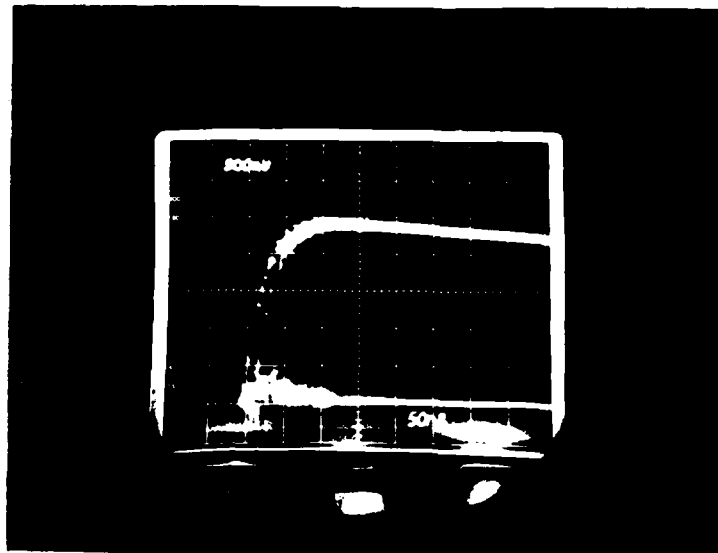


621

NO REF

Date	6-3-85
Test Point	71-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	

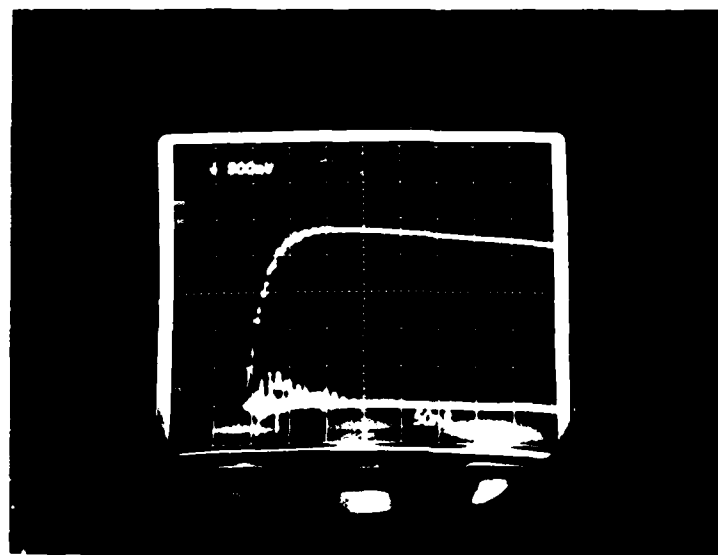
Comments: 623



623

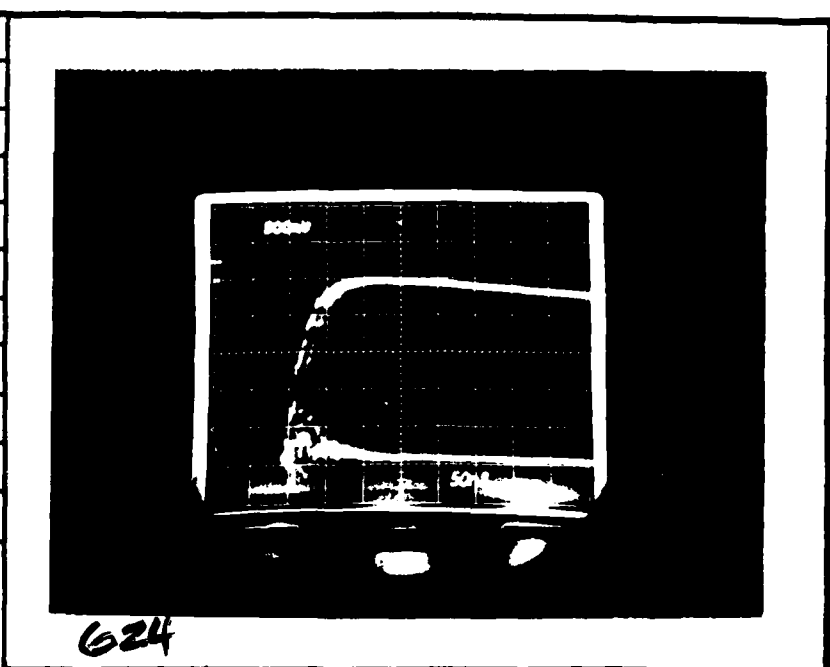
Date	6-3-85
Test Point	71R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	

Comments:

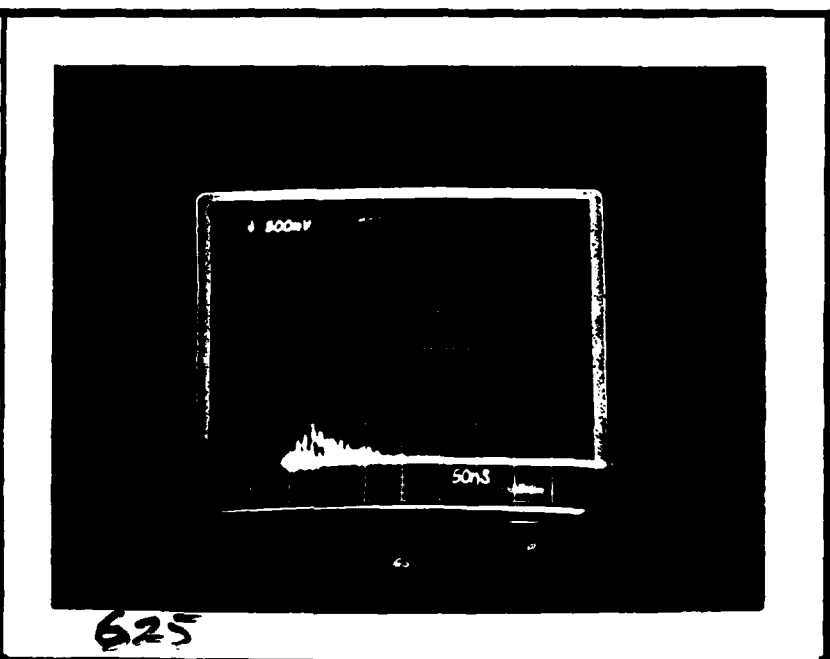


624

Date	6-3-85
Test Point	71-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+ 4500 V
Data Link	
Comments:	v. 7

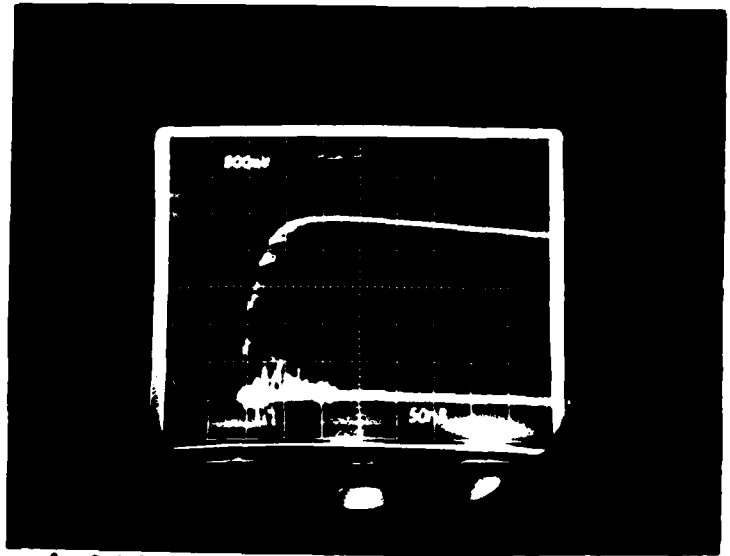


Date	6-3-85
Test Point	71R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	- 4500 V
Data Link	
Comments:	



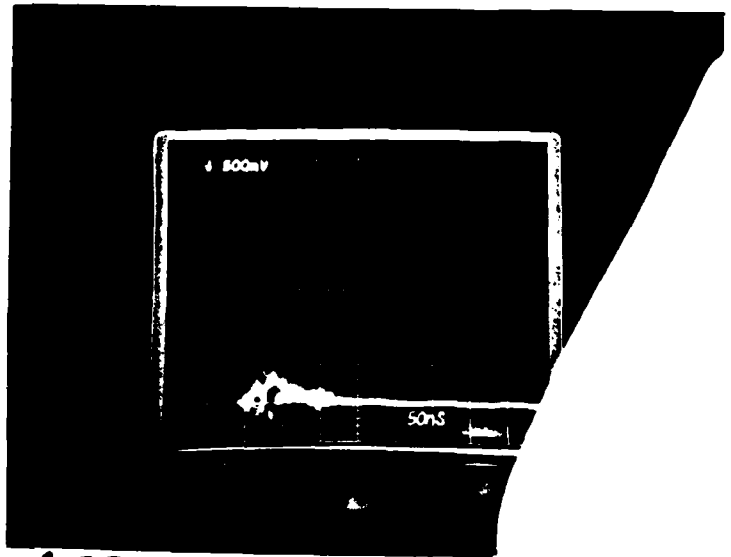
NO REF

Date	6-3-85
Test Point	71-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



627

Date	6-3-85
Test Point	71R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	

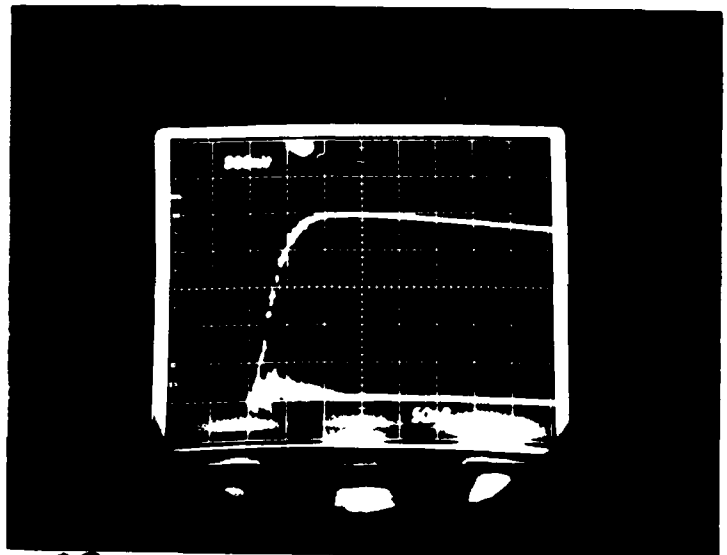


628

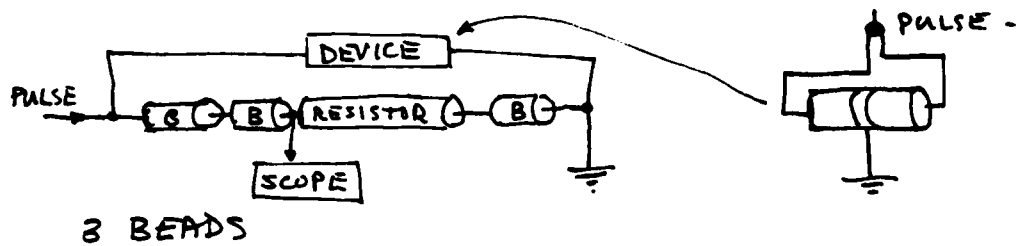
NO REF

- EXTRA -

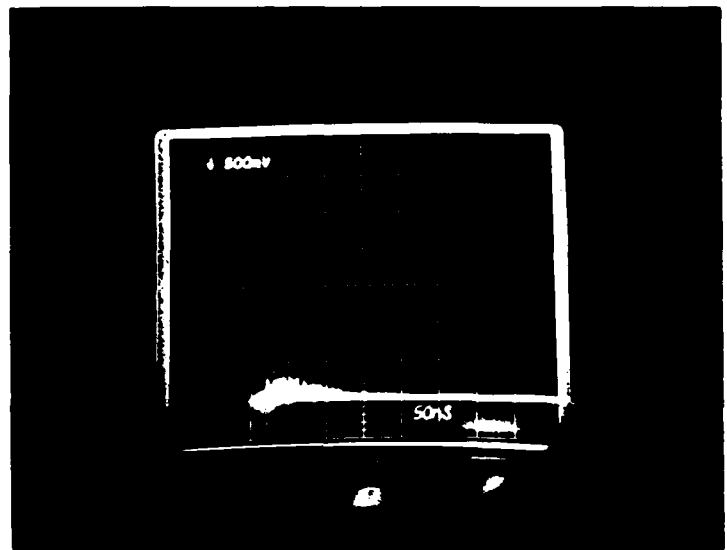
Date	6-4-85
Test Point	72-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	



738 -

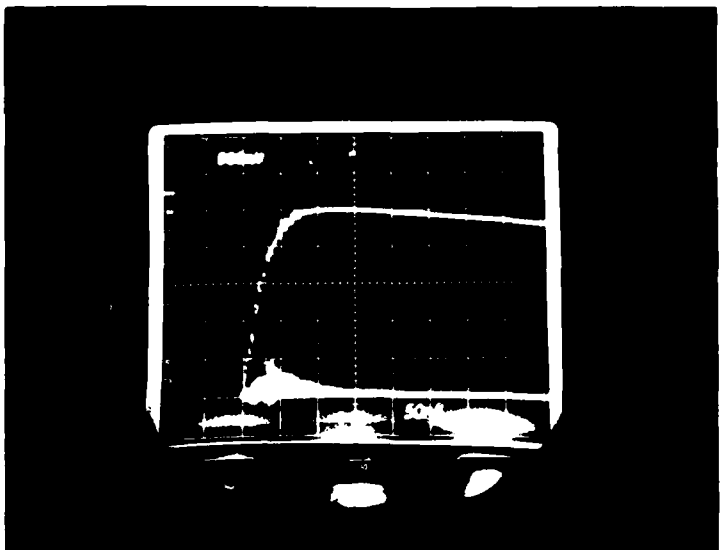


Date	6-4-85
Test Point	72R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	

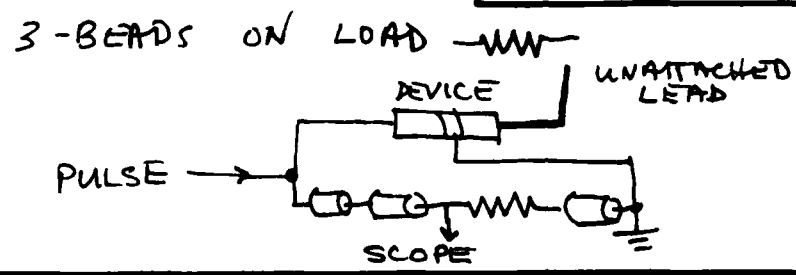


739

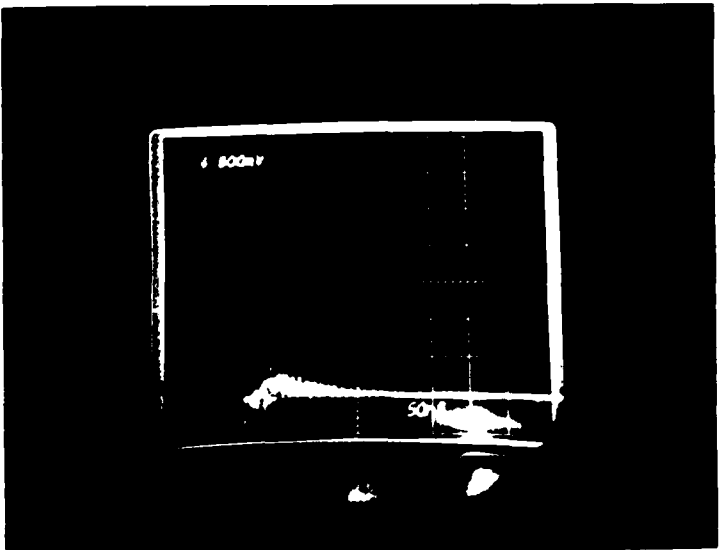
Date 6-4-85
 Test Point 72-CL-1/10-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link
 Comments: 740



740



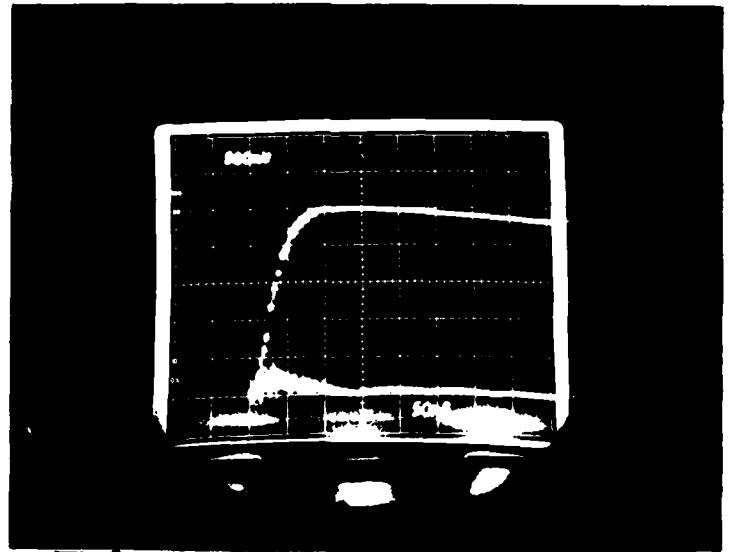
Date 6-4-85
 Test Point 72R-CL-1/10-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link
 Comments: 741



741

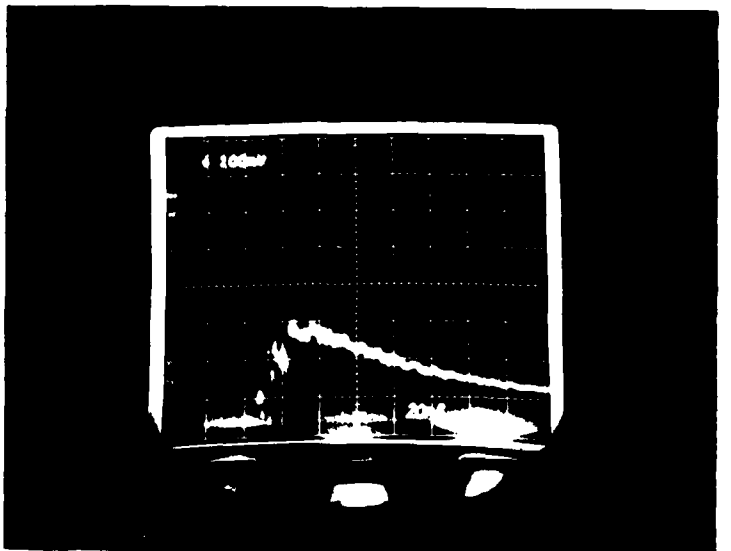
3-BEADS ON LOAD ———

Date	6-4-85
Test Point	72-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4200V
Data Link	
Comments:	7.5



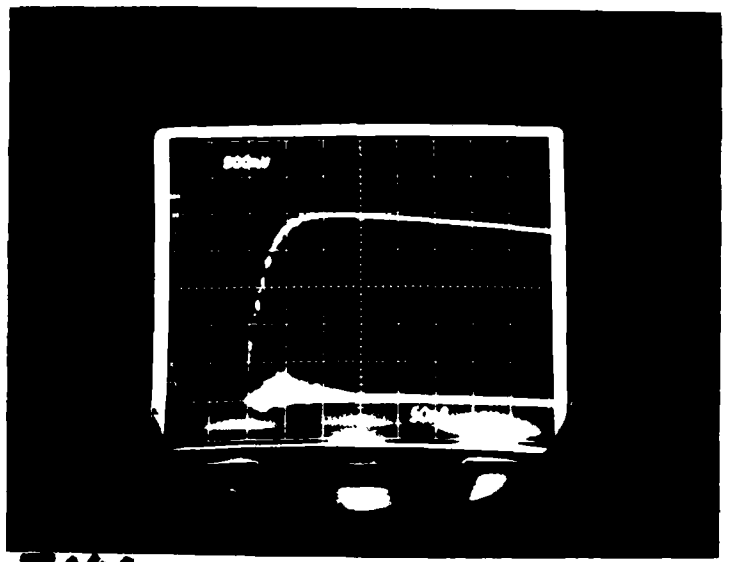
3 BEADS ON LOAD -MM

Date	6-4-85
Test Point	72R-CL-1/20-B
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	7.4



3 BEADS ON LOAD -MM

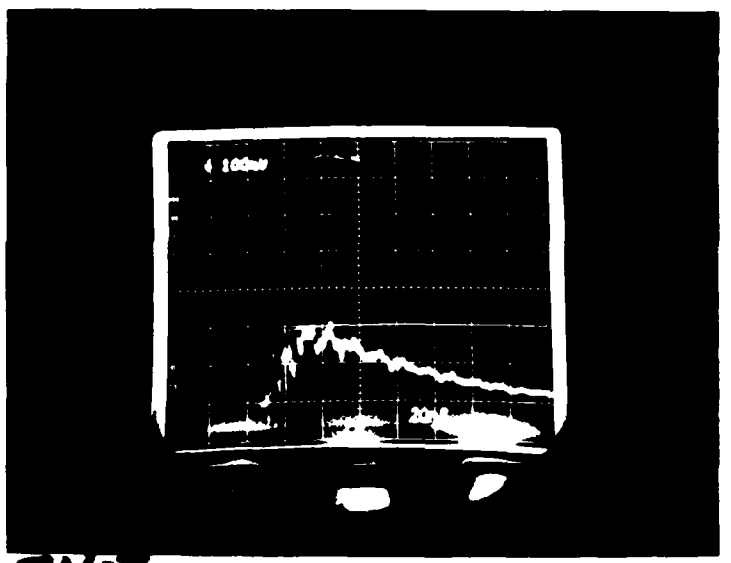
Date 6-4-85
 Test Point 72-CL-1/10-C
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500
 Data Link



744

3-BEADS ON LOAD -MM-

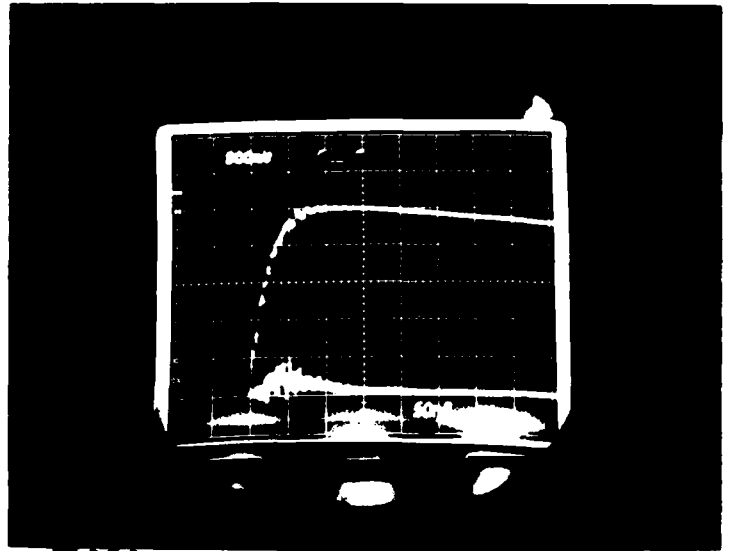
Date 6-4-85
 Test Point 72R-CL-1/20-C
 Amplification dB
 Attenuation 20 dB
 Horizontal 20 ns/div 1
 Vertical .1V (190) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500 ✓
 Data Link



745

3 BEADS ON LOAD -MM-

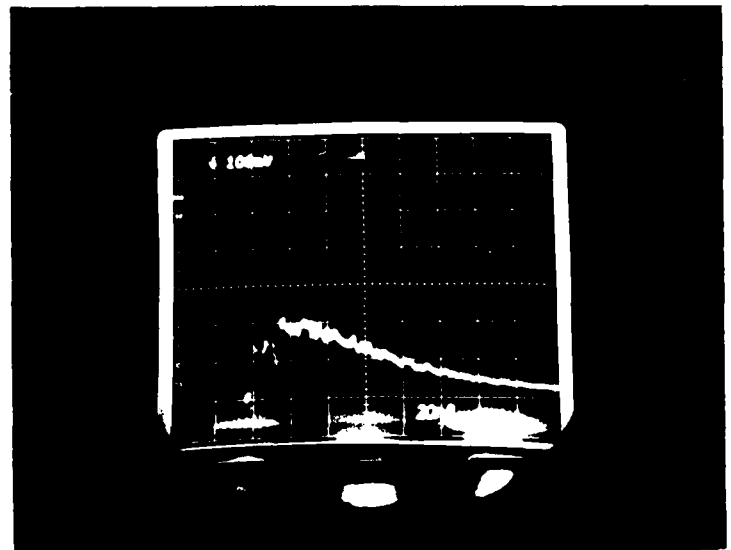
Date	6-4-85
Test Point	72-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Date Link	
Comments:	746



746

3 BEADS ON LOAD -MM-

Date	6-4-85
Test Point	72R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Date Link	
Comments:	747

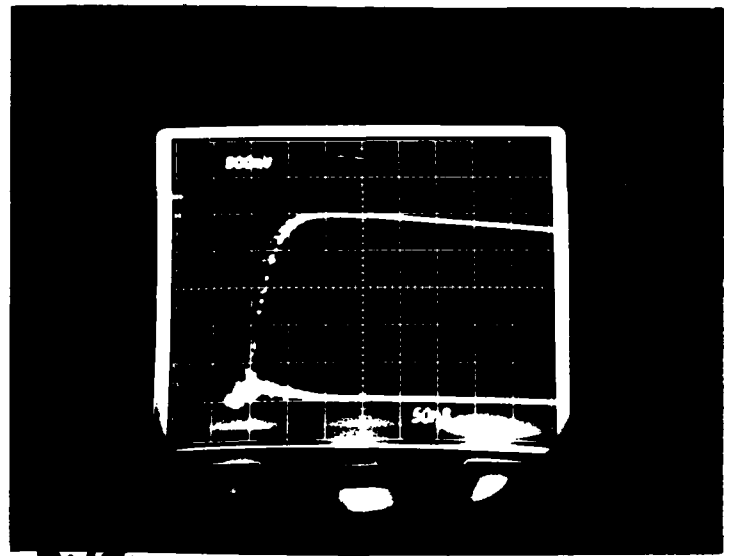


747

3 BEADS ON LOAD -MM-

Date 6-4-85
 Test Point 72-CL-1/10-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link

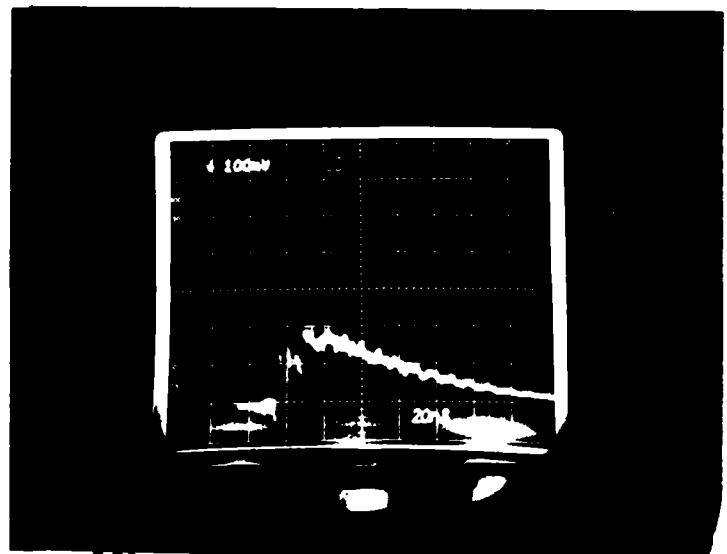
Comments: 748



748

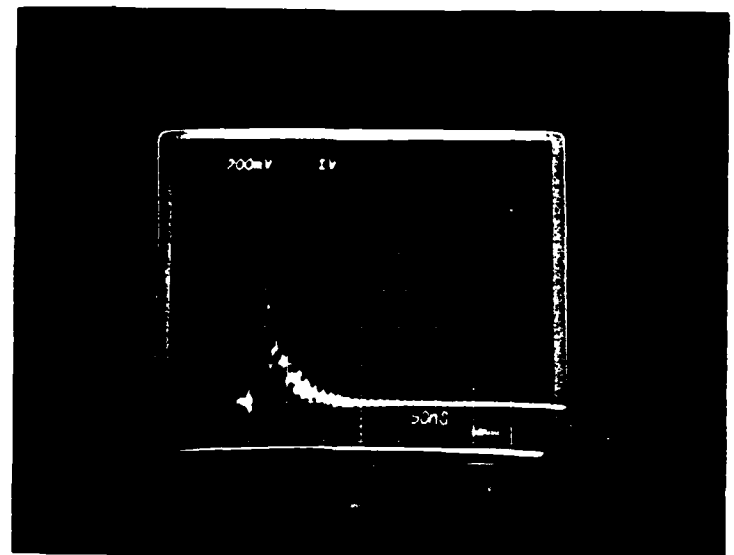
Date 6-4-85
 Test Point 72R-CL-1/10-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 20 ns/div 1
 Vertical .1V (190) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link

Comments: 749



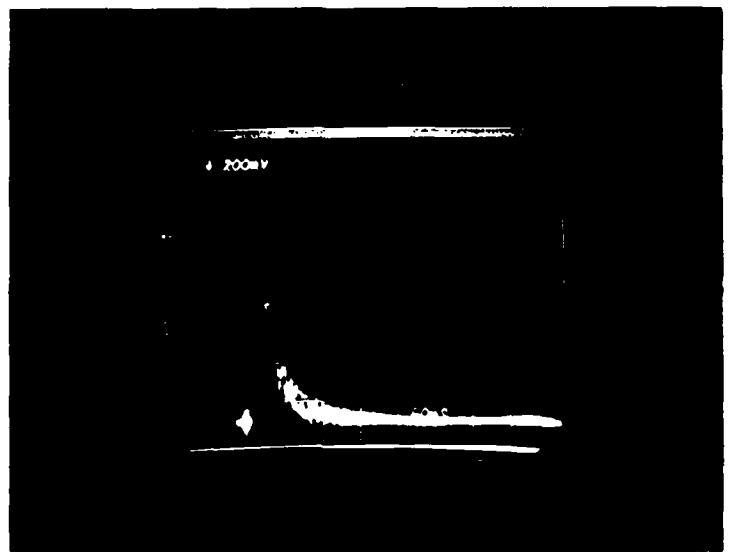
749

Date	5-29-85
Test Point	74-CL-1/10-Ø
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.2V (480V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4.5KV
Data Link	
Comments:	344



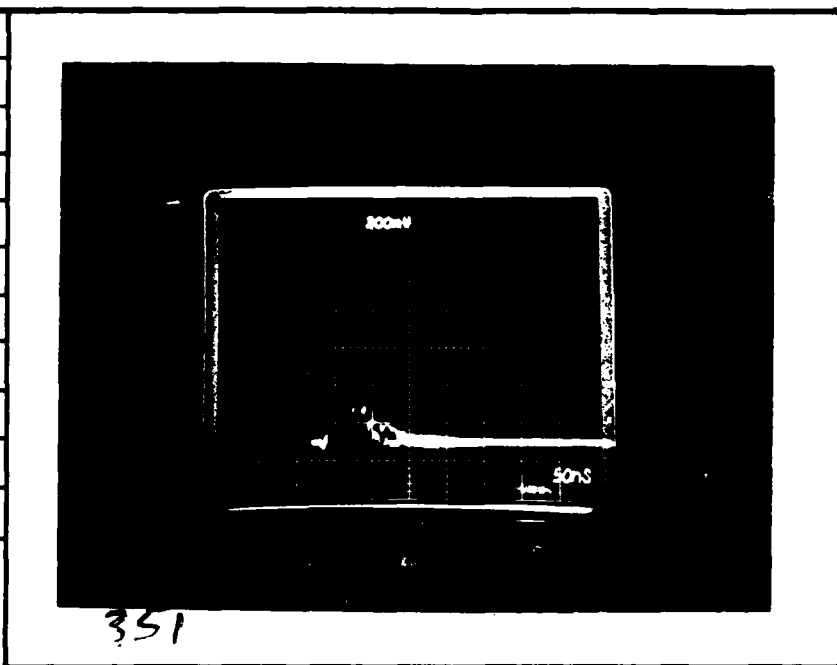
344

Date	5-29-85
Test Point	74R-CL-1/10-Ø
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.2V (480V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4.5KV
Data Link	
Comments:	345

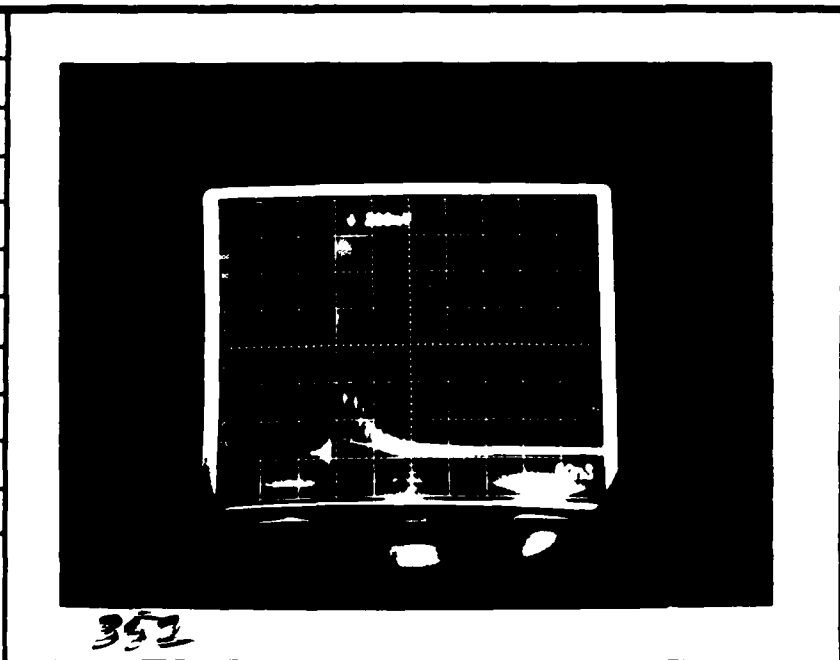


345

Date	5-29-85
Test Point	74-CL-1/10-Ø
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.2V(480V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	351

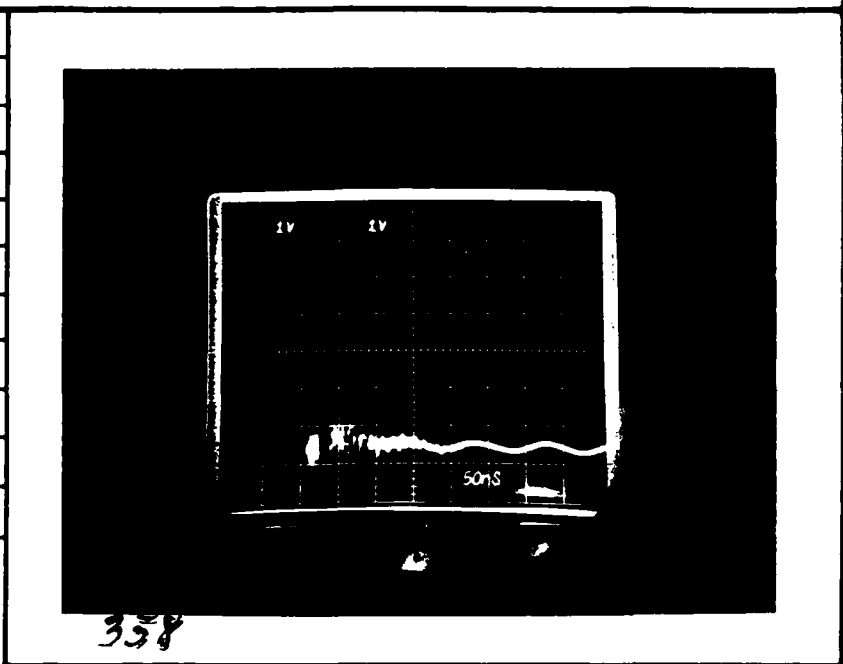


Date	5-29-85
Test Point	74R-CL-1/10-Ø
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.2V(480V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	352



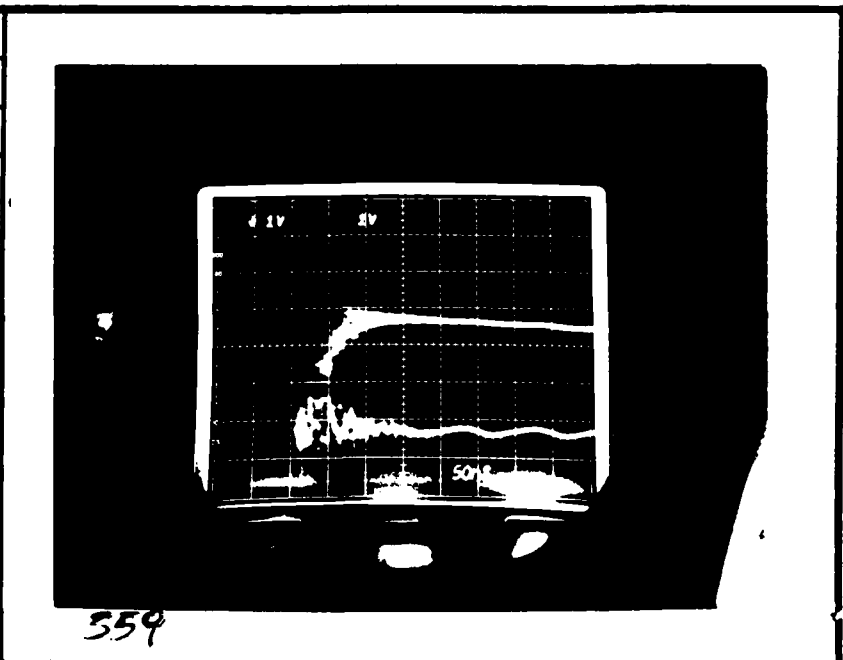
REF. PULSE = vertical

Date	5-29-85
Test Point	75-CL-1/10-Ø
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.1 (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	358

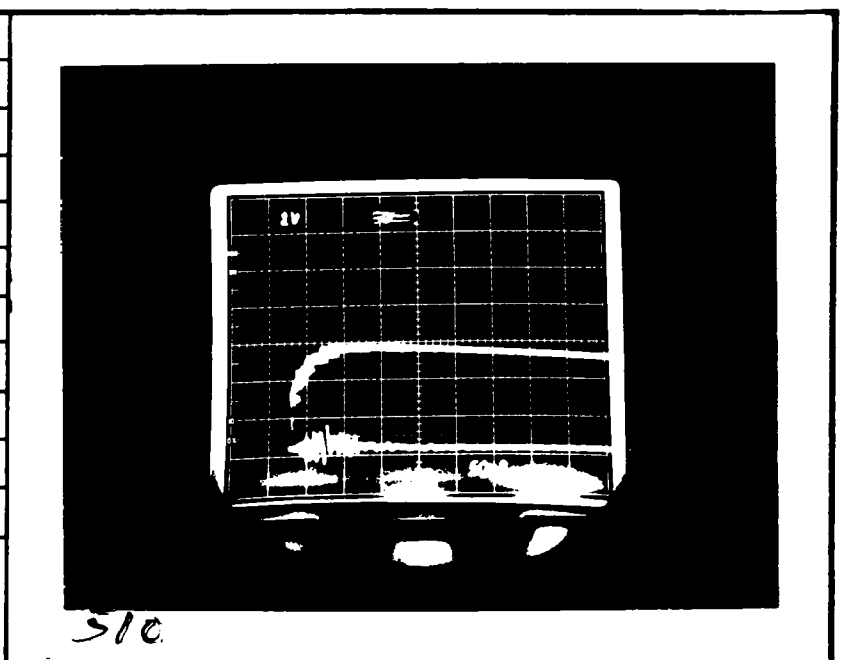


Date	5-29-85
Test Point	75R-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	0.1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	359

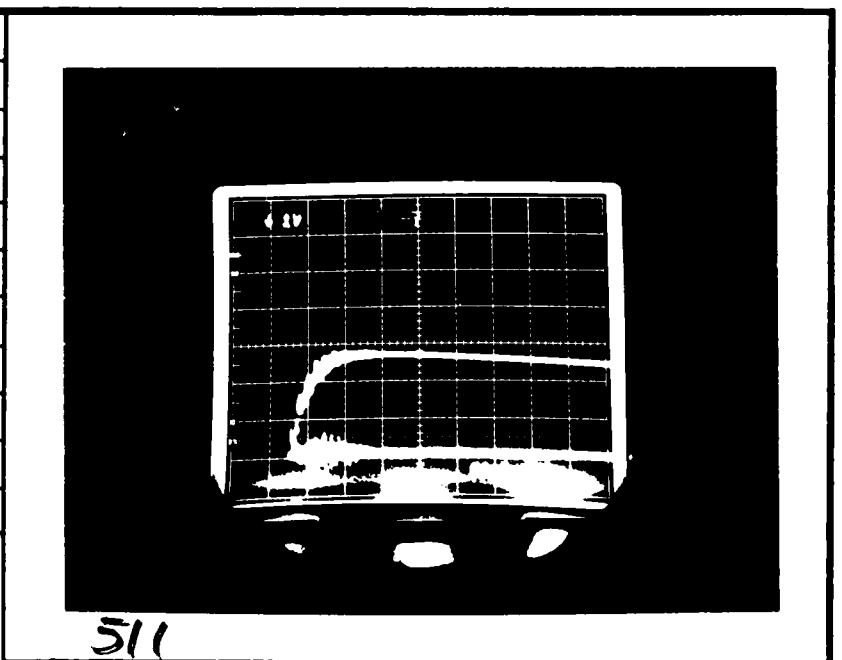
REF: VERTICAL
1.V (1900V) per div



Date	5-31-85
Test Point	76-CL-1/10-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	510 HOT COMMON (NEW)

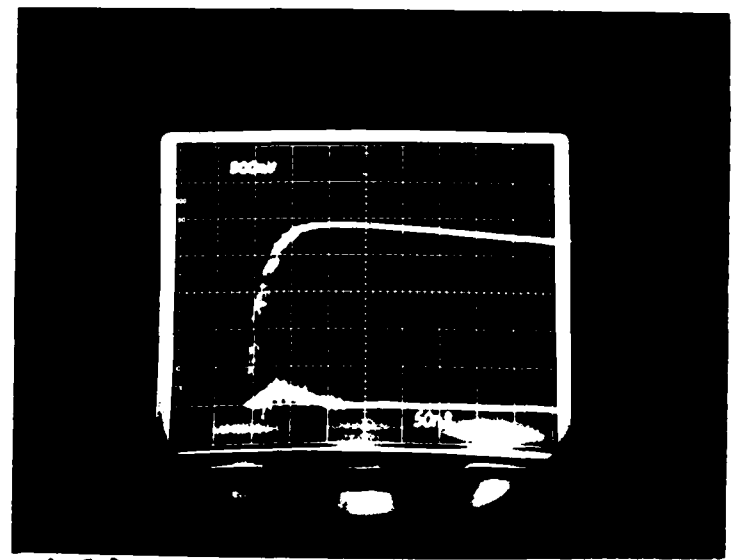


Date	5-31-85
Test Point	76R-CL-1/10-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	511 HOT COMMON (NEW)



Date 6-4-85
 Test Point 78-CL-Y10-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level + 4500 V
 Data Link

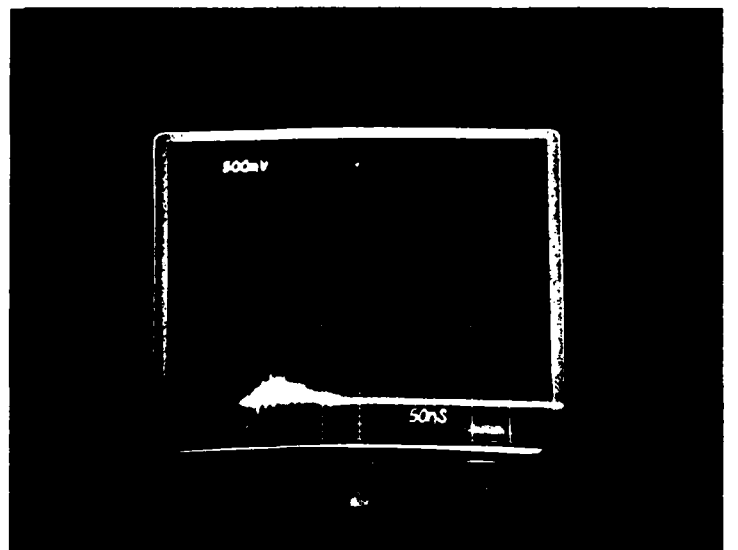
Comments: 629



629

Date 6-3-85
 Test Point 78R-CL-Y10-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level - 4500 V
 Data Link

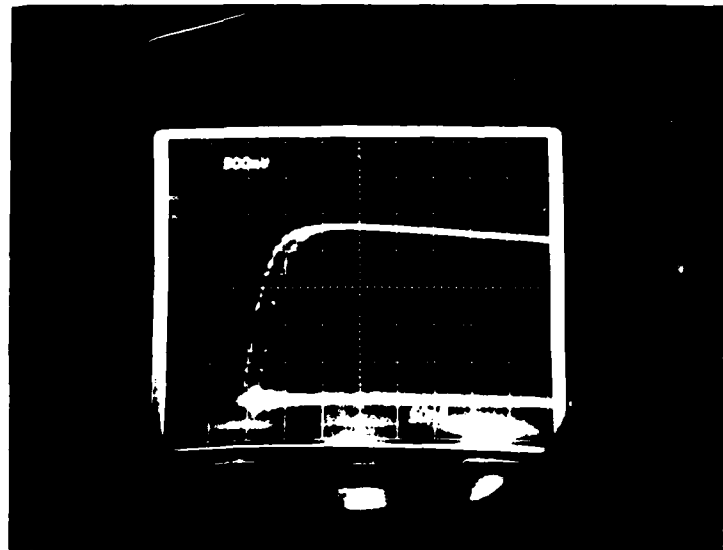
Comments: 630



630

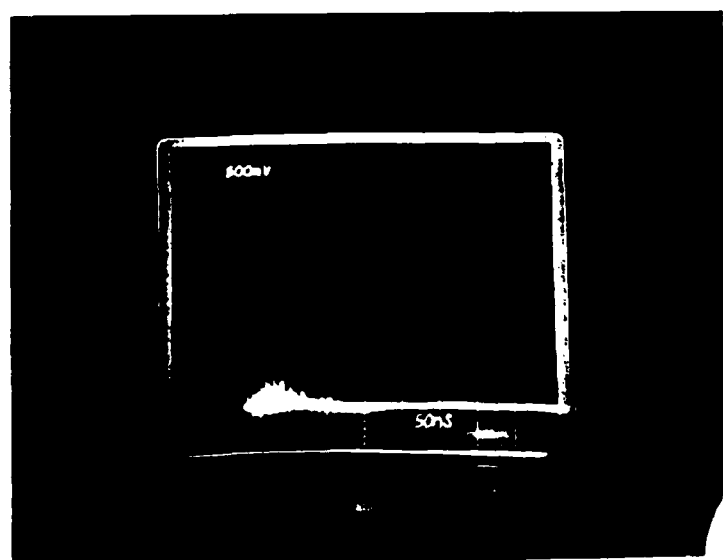
NO REF

Date	6-4-85
Test Point	78-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	631



631

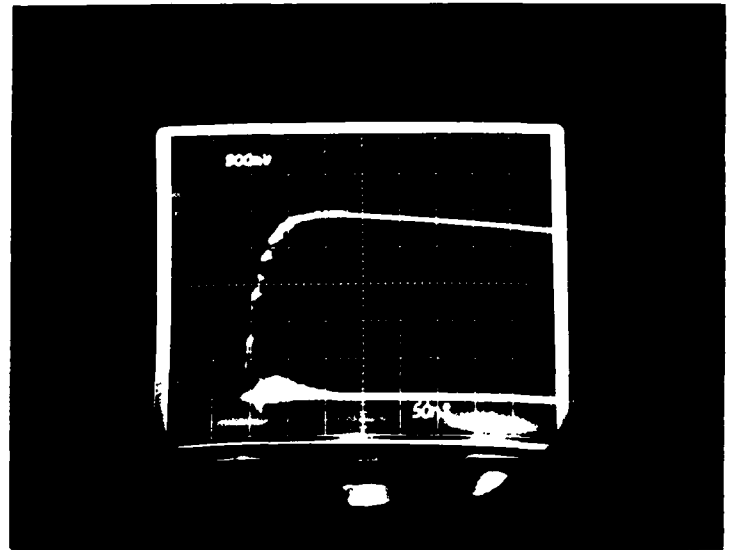
Date	6-3-85
Test Point	78R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



632

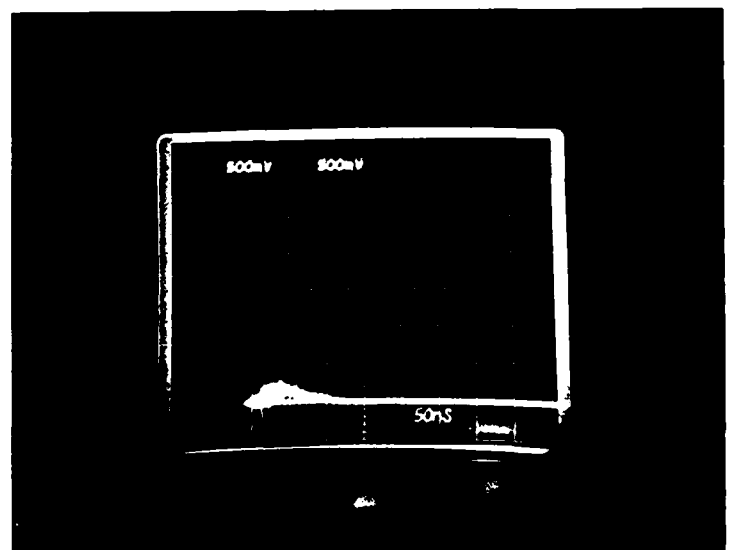
NO REF

Date	6-2-85
Test Point	78-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	633



633

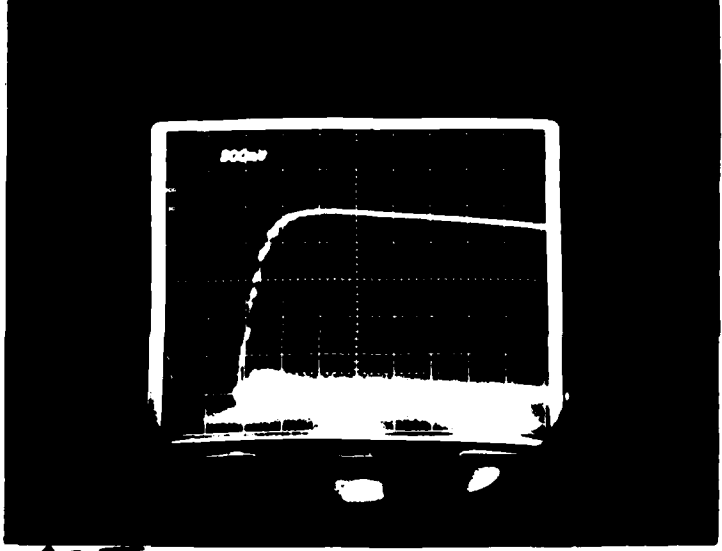
Date	6-3-85
Test Point	78R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	634



634

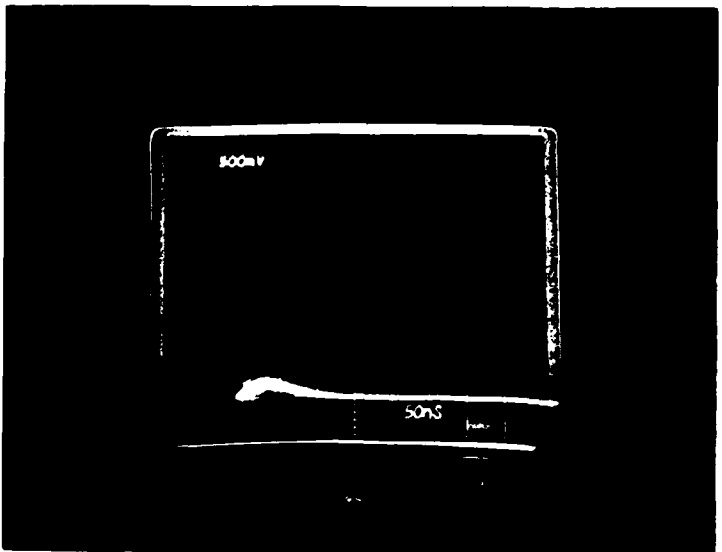
NO REF

Date	6-2-85
Test Point	78-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	635



635

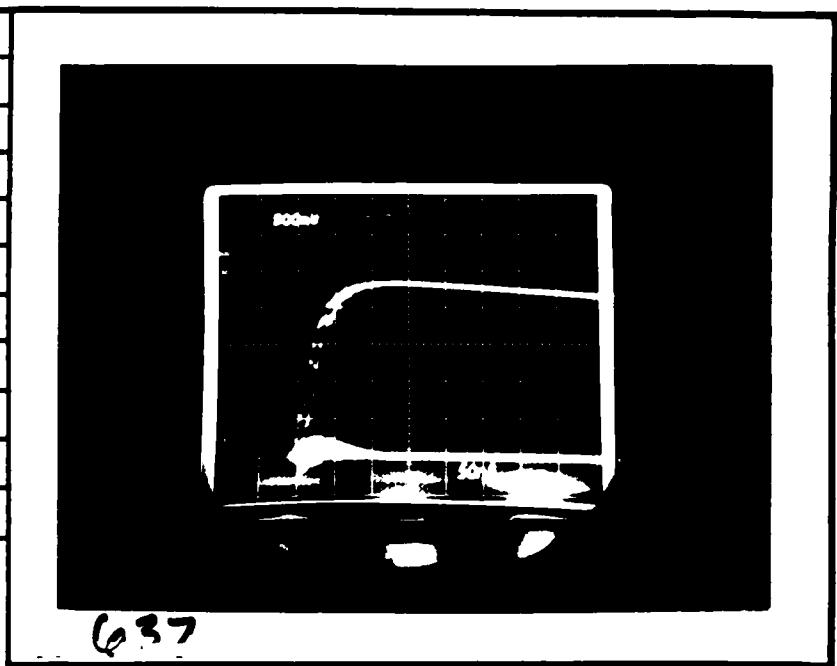
Date	6-3-85
Test Point	78R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	636



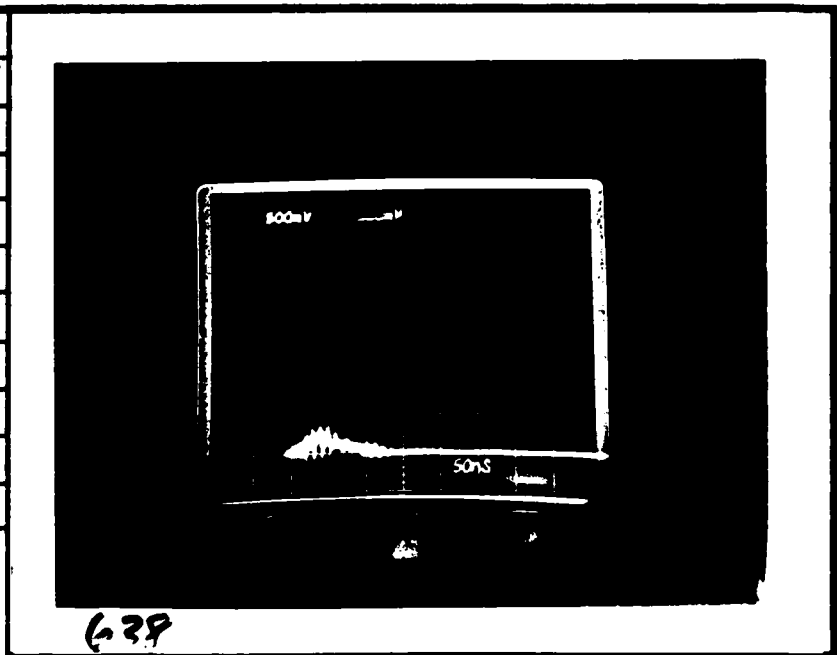
636

NO REF

Date	6-4-85
Test Point	78-CL-Y10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+ 4500 V
Data Link	
Comments:	637

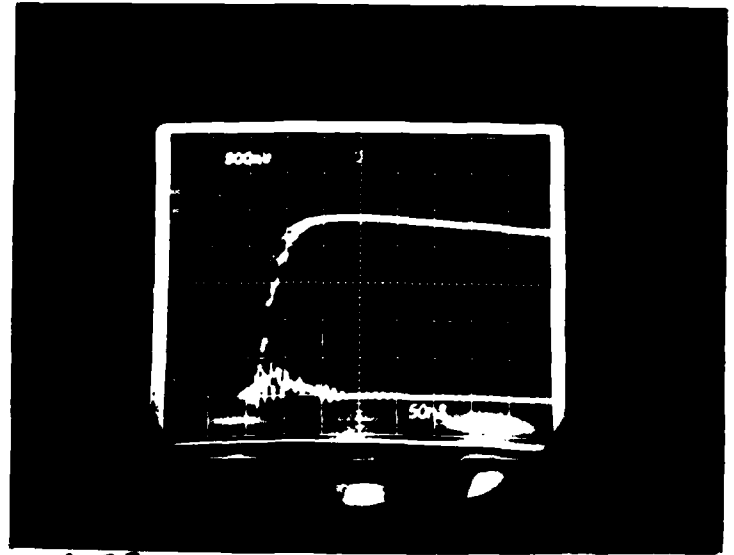


Date	6-3-85
Test Point	78R-CL-Y10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	- 4500 V
Data Link	
Comments:	638



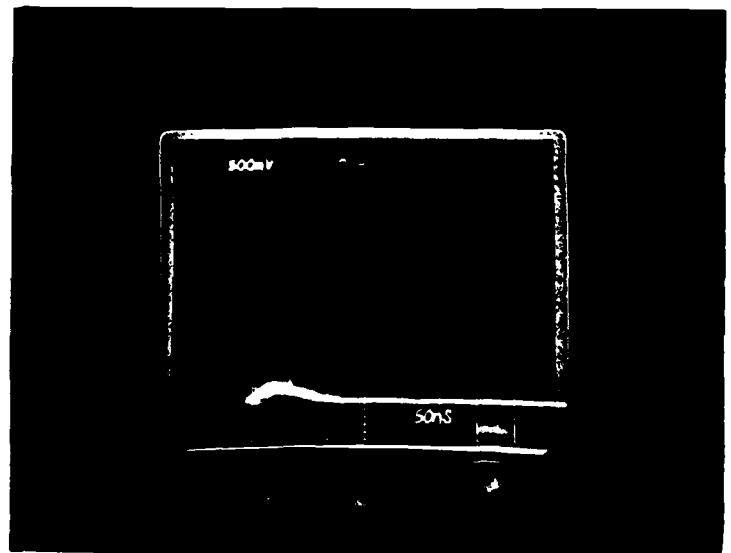
NO REF

Date	6-4-85
Test Point	81-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+4500 V
Data Link	
Comments:	639



639

Date	6-4-85
Test Point	81R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	-4500 V
Data Link	
Comments:	640

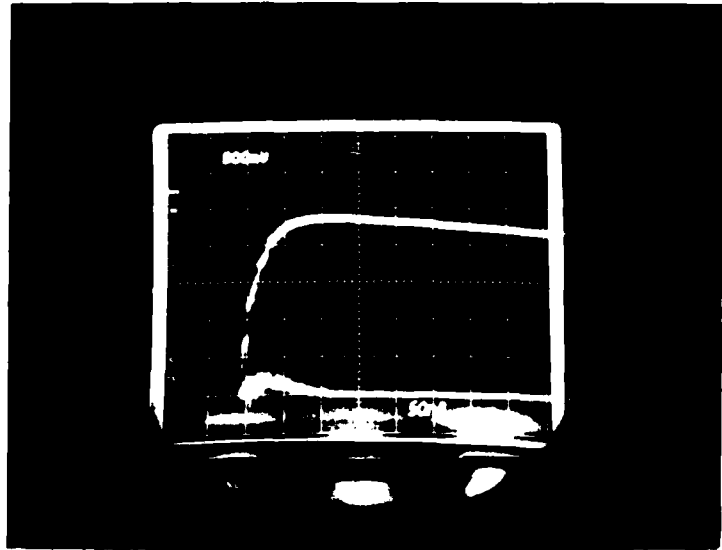


640

NO REP

Date	6-4-85
Test Point	81-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	

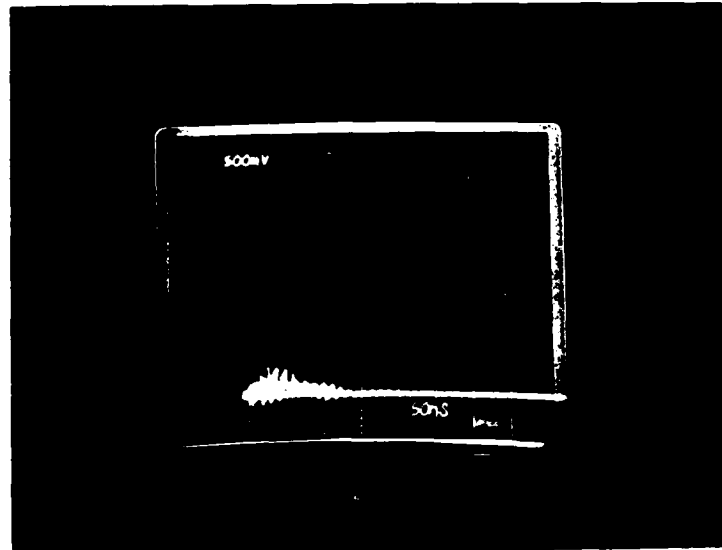
Comments: 641



641

Date	6-4-85
Test Point	81R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	

Comments:

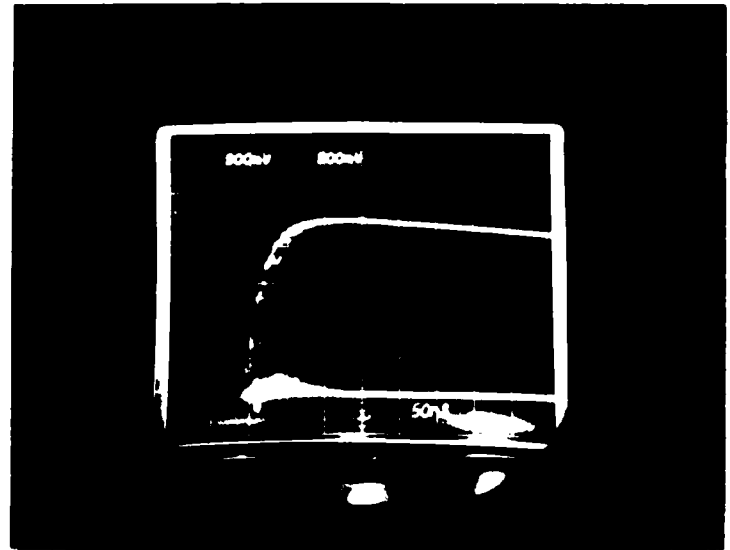


642

NO REF

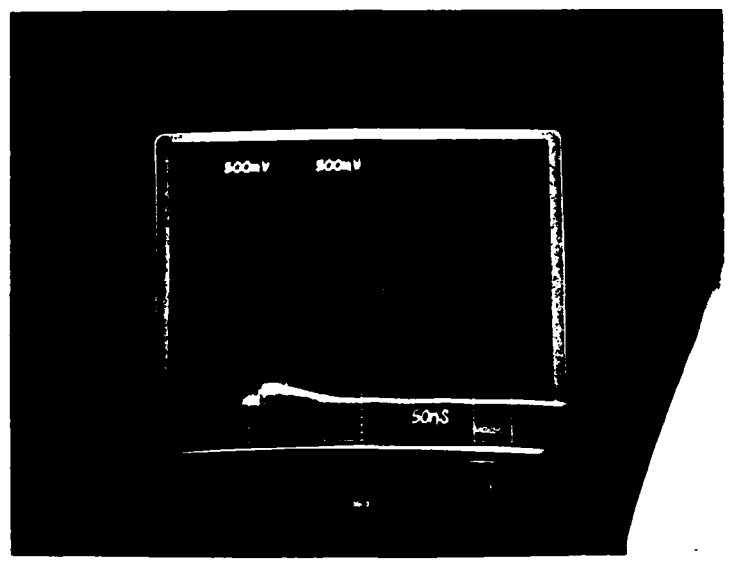
Date	6-4-85
Test Point	81-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	

Comments: 693



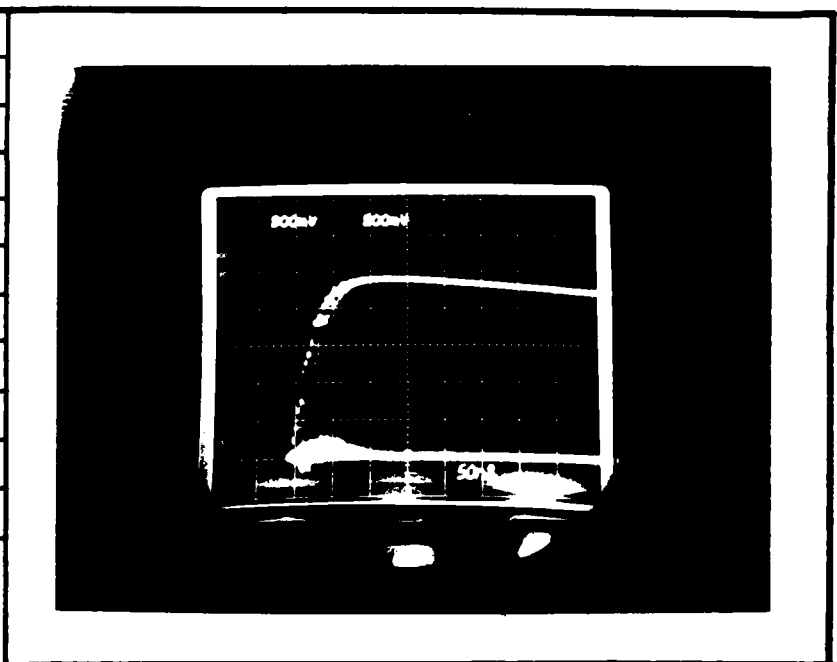
Date	6-4-85
Test Point	81RCL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	

Comments:

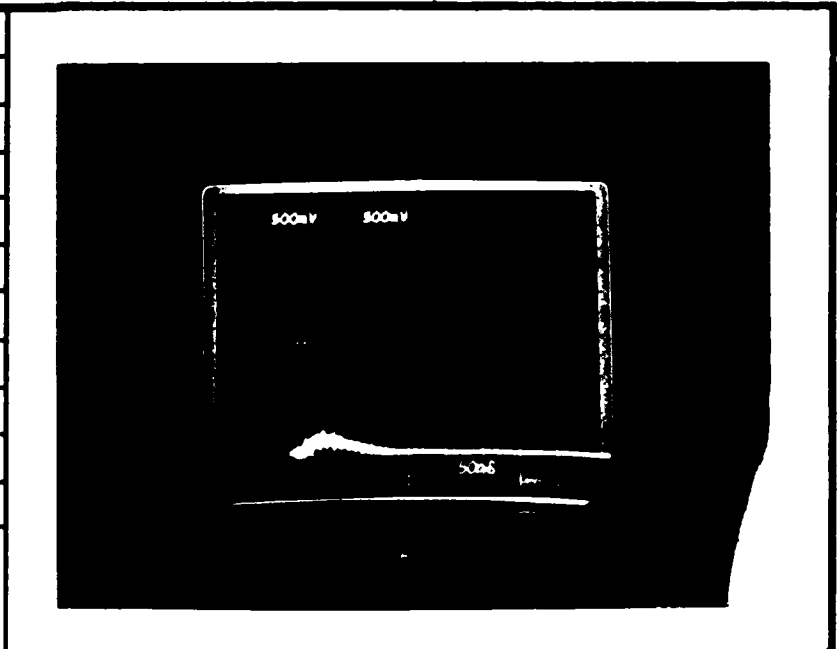


NO REF

Date	6-4-85
Test Point	81-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+4500V
Data Link	
Comments:	645

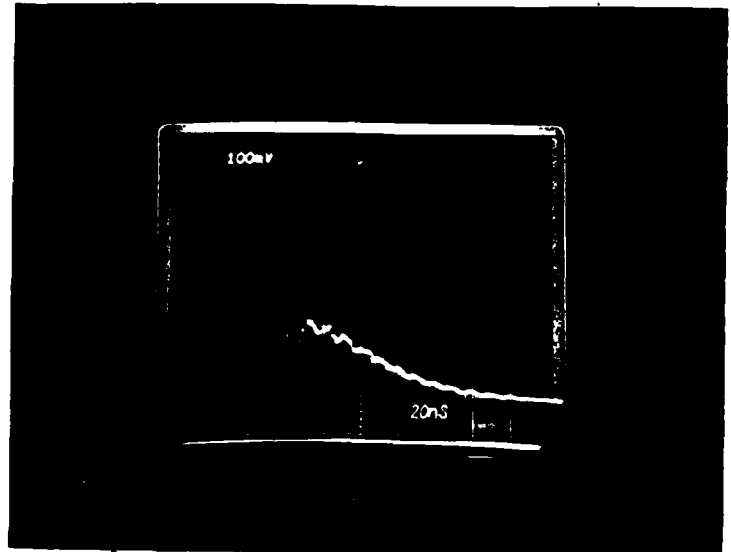


Date	6-4-85
Test Point	81R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	-4500V
Data Link	
Comments:	



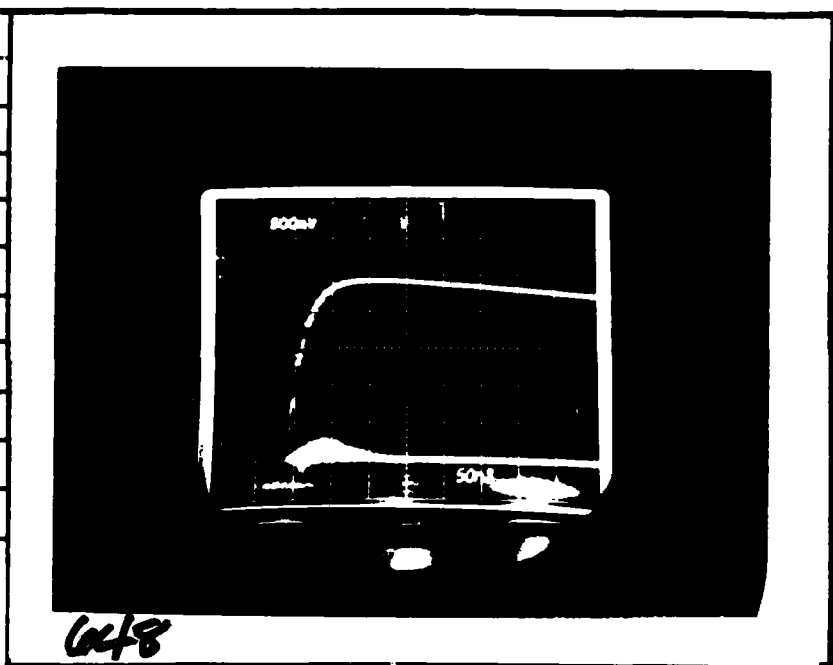
NO REF

Date	6-4-85
Test Point	81-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	

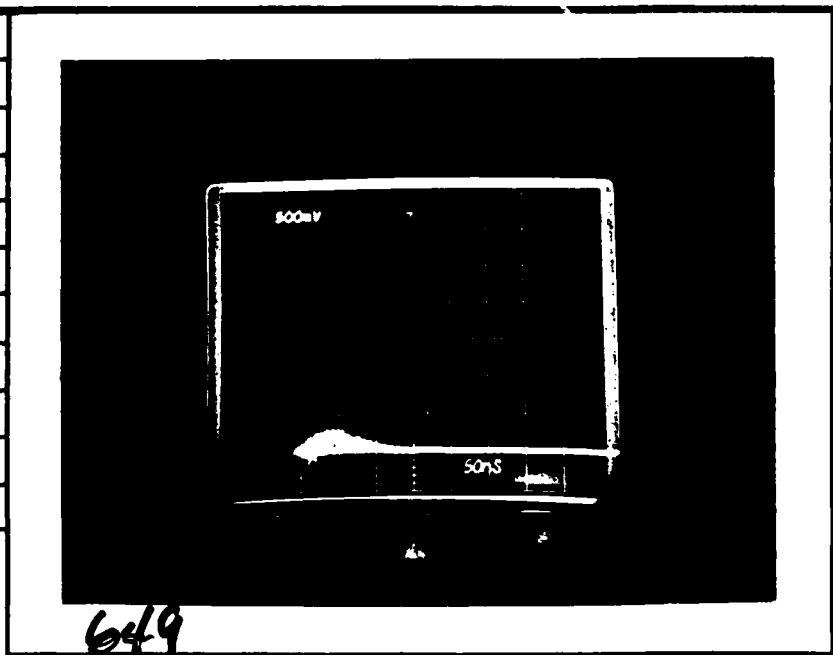


Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

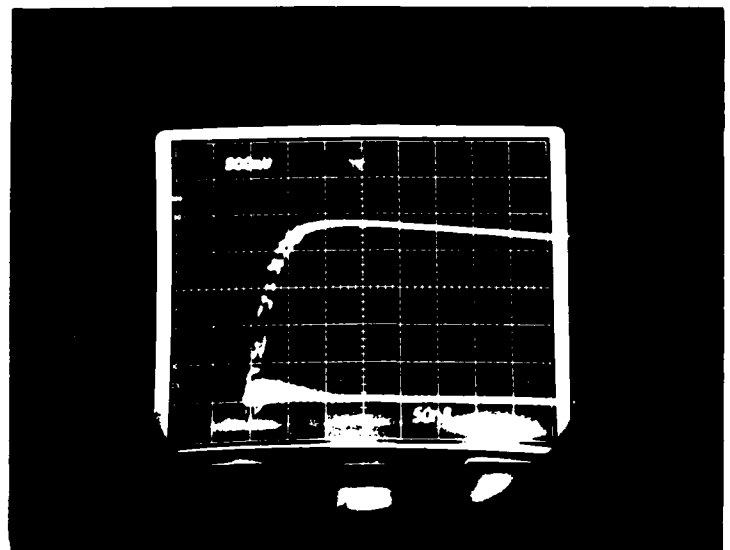
Date	6-4-85
Test Point	81-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	649



Date	6-4-85
Test Point	81R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	649

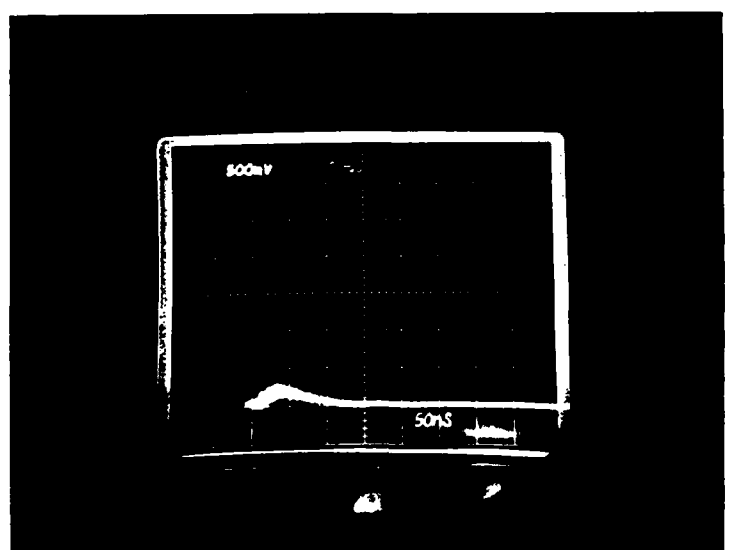


Date	6-4-85
Test Point	84-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	650



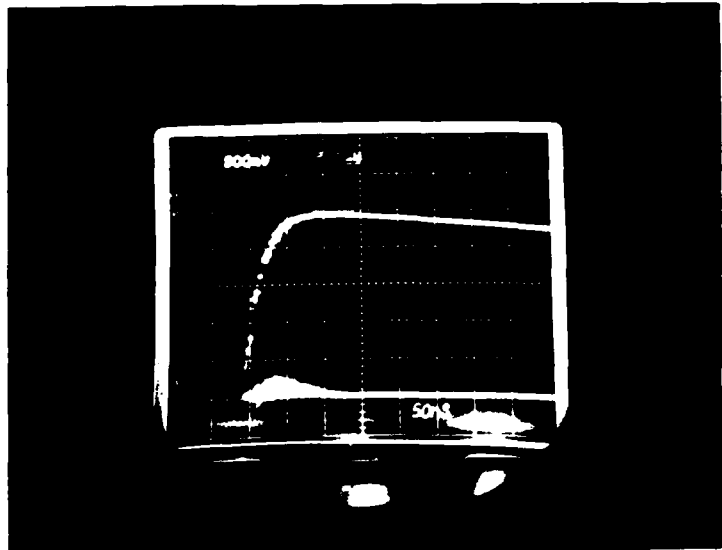
650

Date	6-4-85
Test Point	84R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	651



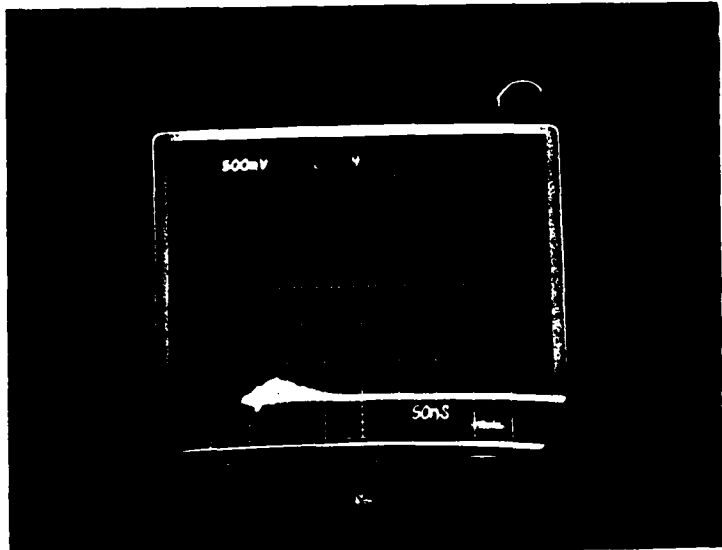
651

Date	6-4-85
Test Point	84-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V. (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	652



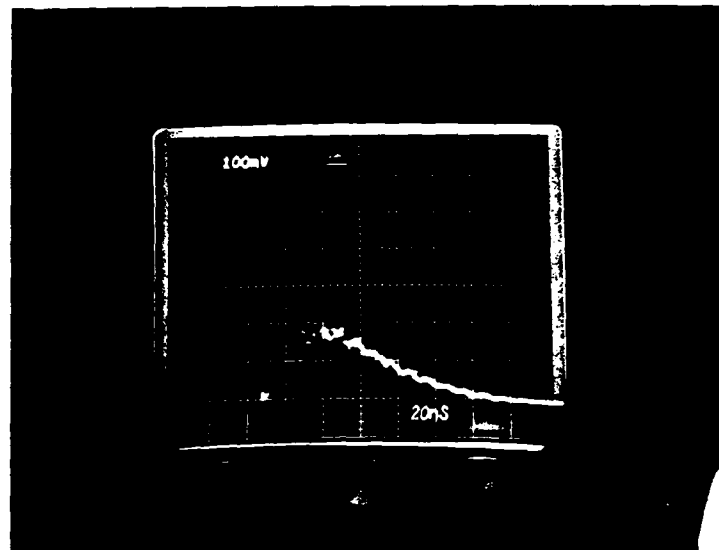
652

Date	6-4-85
Test Point	84R-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	653



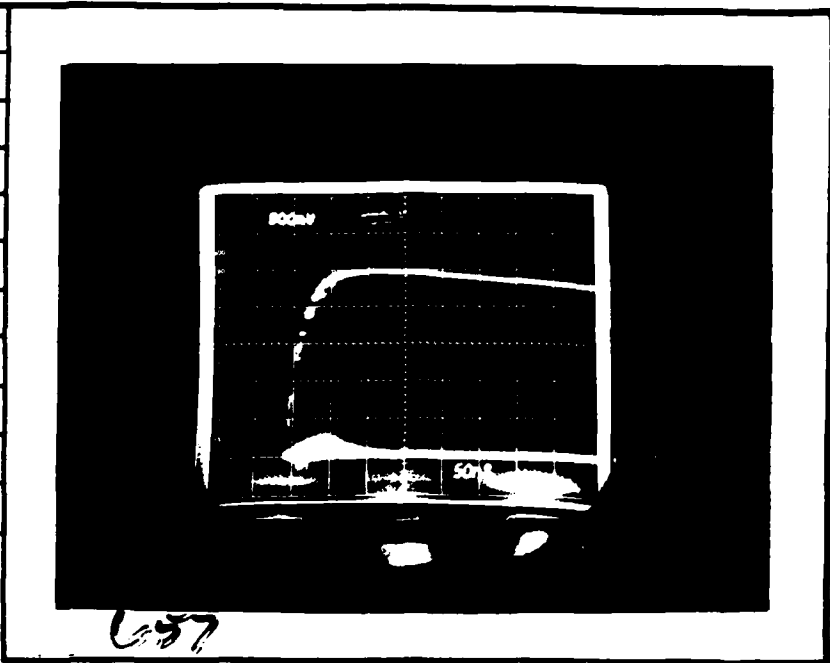
653

Date	6-4-85
Test Point	84R-CL-400-B
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	654

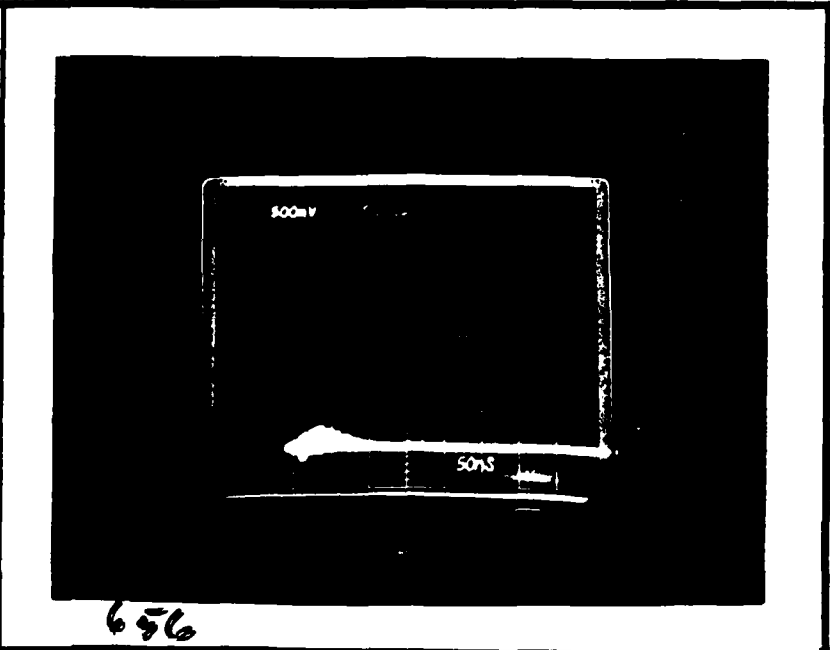


Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

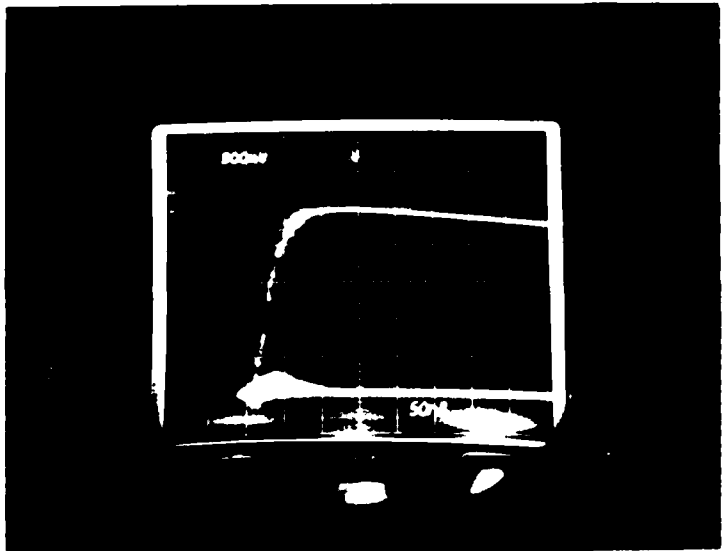
Date	6-4-85
Test Point	84-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	655



Date	6-4-85
Test Point	84R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	656

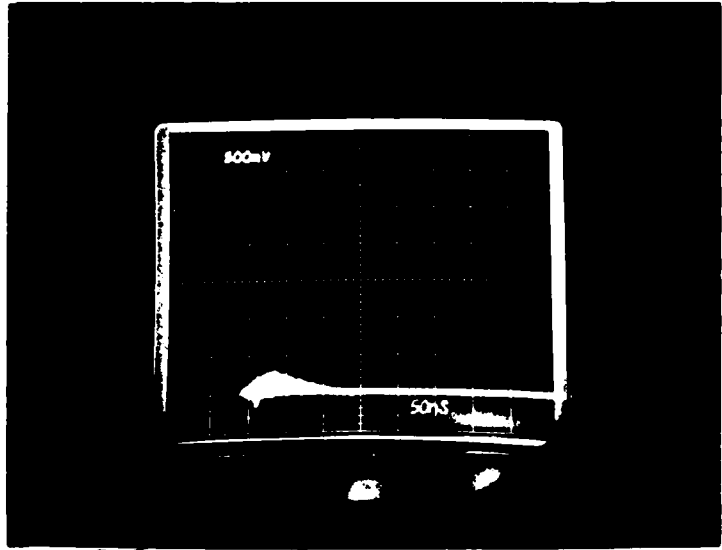


Date	6-4-85
Test Point	84-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	657



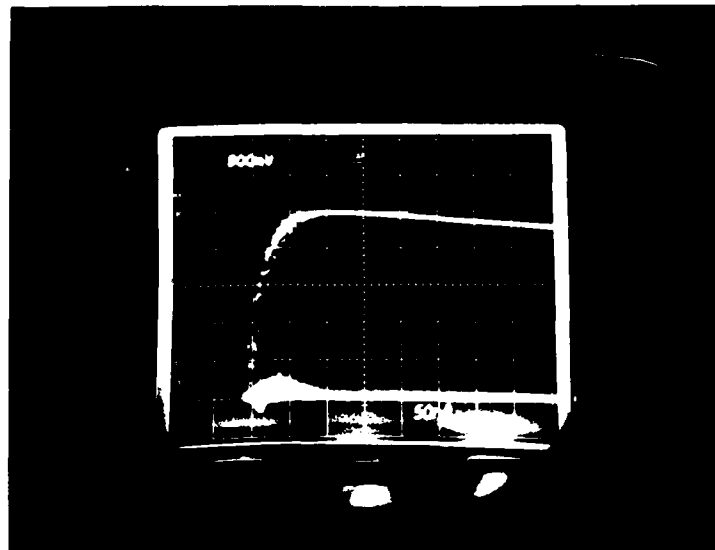
657

Date	6-4-85
Test Point	84R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	658



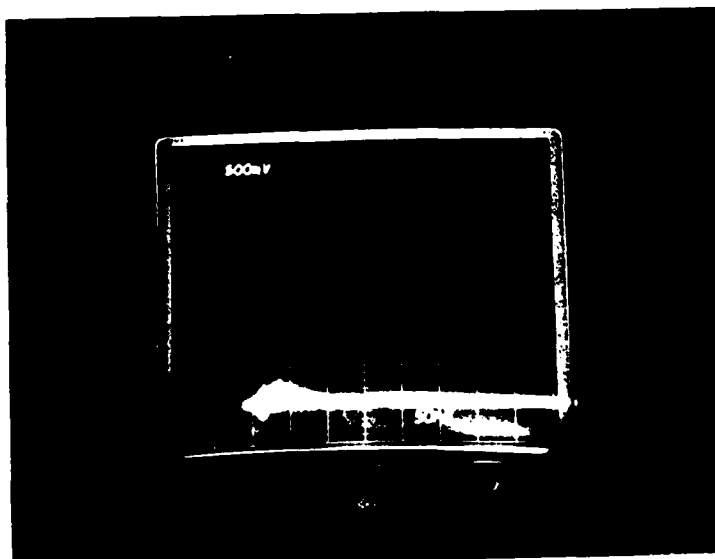
658

Date	6-4-85
Test Point	84-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+4500 ✓
Data Link	
Comments:	659



659

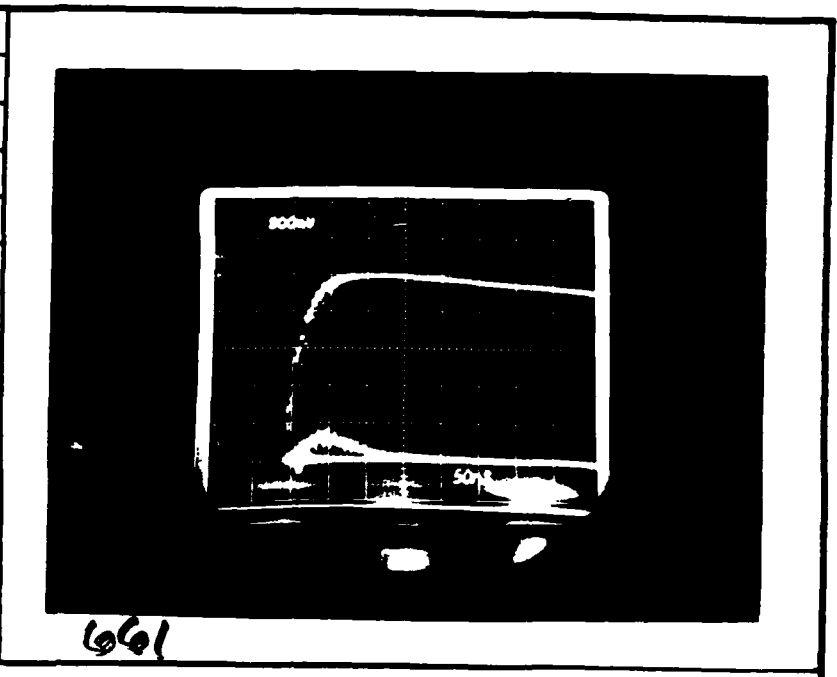
Date	6-4-85
Test Point	84R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	-4500 ✓
Data Link	
Comments:	



660

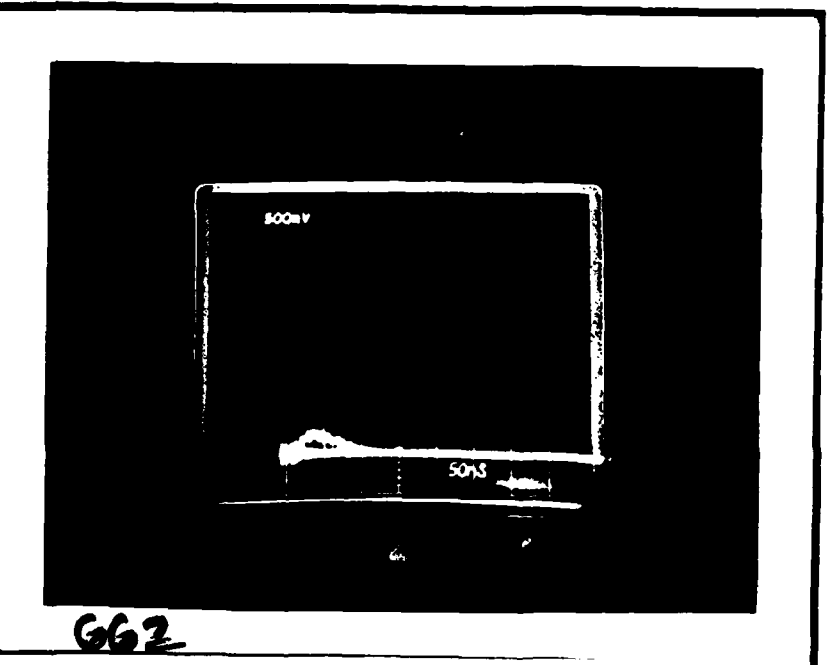
Date 6-4-85
 Test Point 87-CL-1/10-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link

Comments: 661

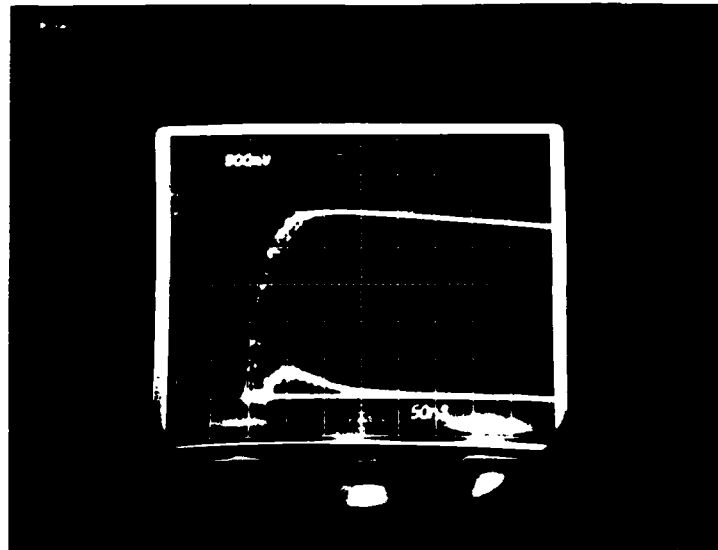


Date 6-4-85
 Test Point 87R-CL-1/10-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link

Comments: 662

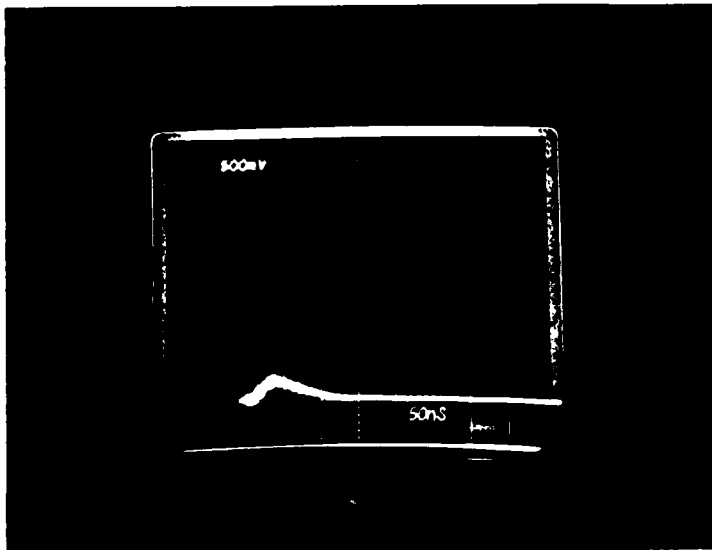


Date	6-4-85
Test Point	87-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+4500 V
Data Link	
Comments:	663



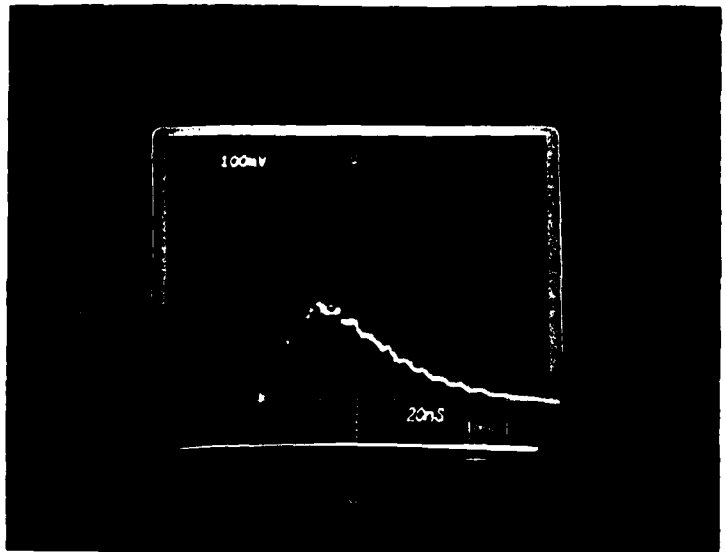
663

Date	6-4-85
Test Point	87R-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	-4500 V
Data Link	
Comments:	664



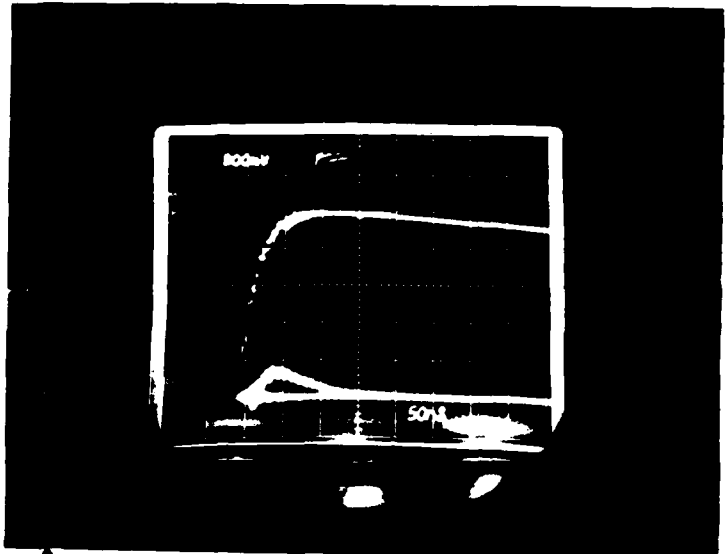
664

Date	6-4-85
Test Point	87R-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



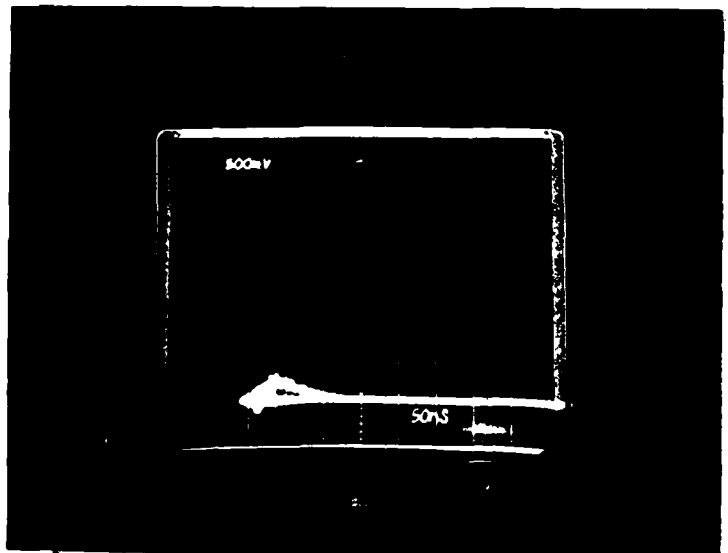
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date	6-4-85
Test Point	87-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	666



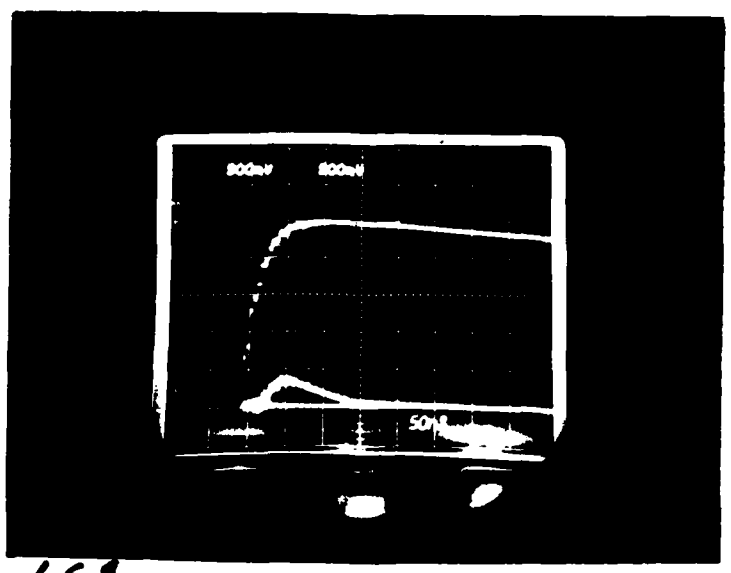
666

Date	6-4-85
Test Point	87R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	667



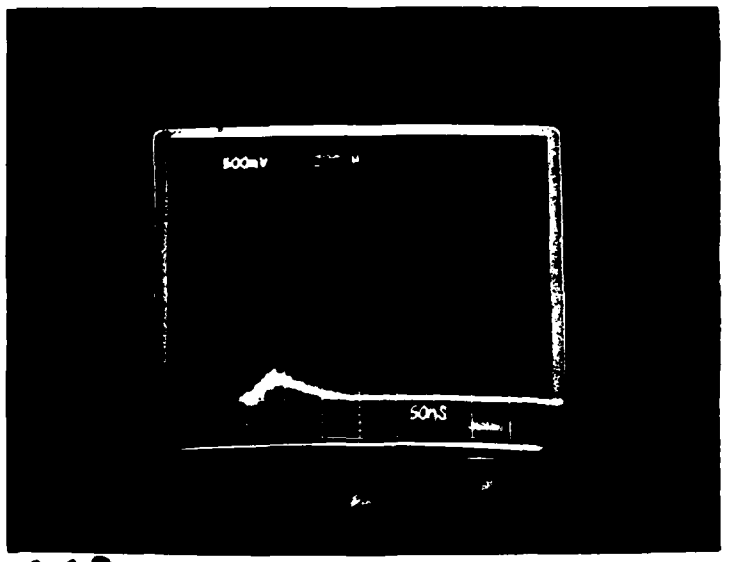
667

Date	6-4-85
Test Point	87-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	668



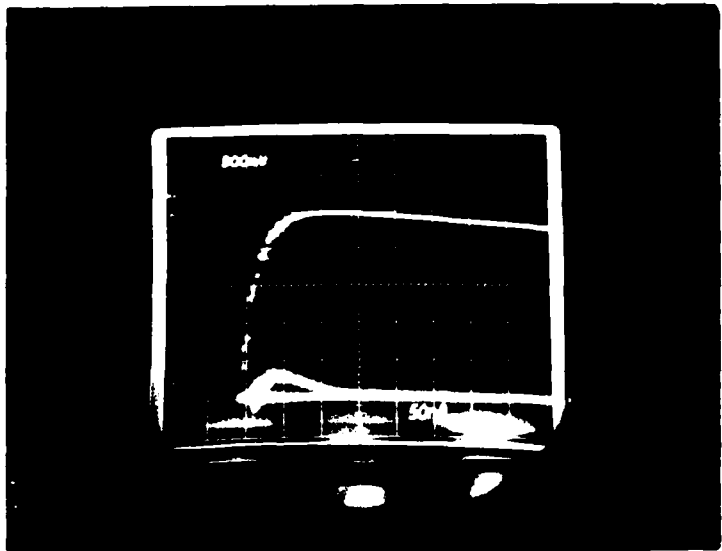
668

Date	6-4-85
Test Point	87R-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	
Comments:	669



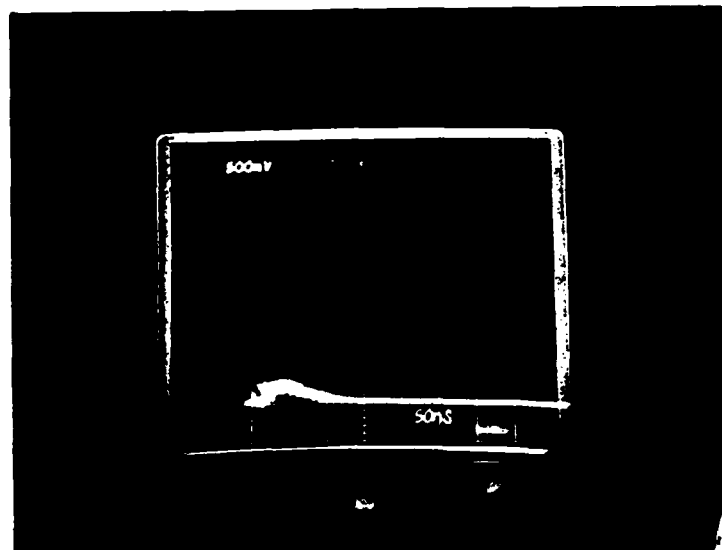
669

Date	6-4-85
Test Point	87-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	670



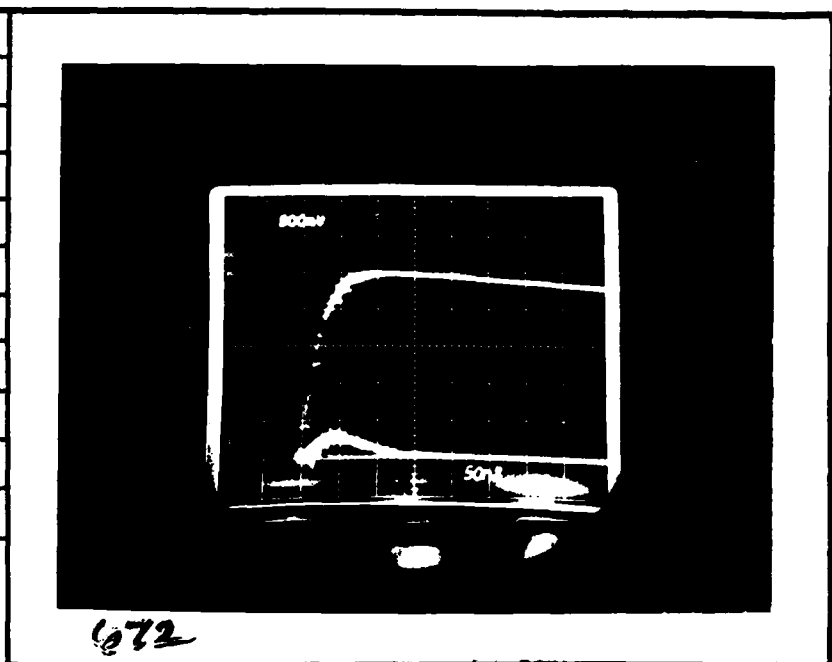
670

Date	6-4-85
Test Point	87R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	671

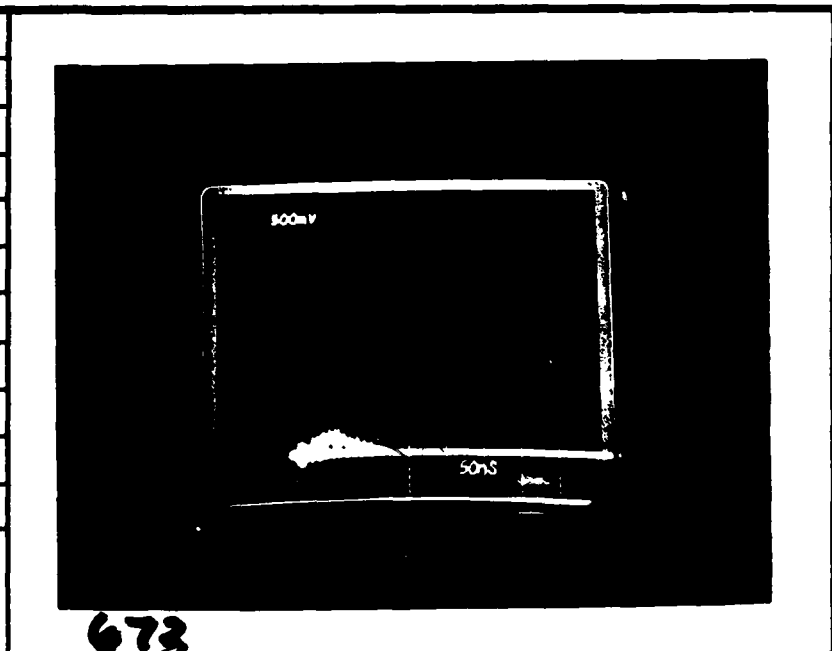


671

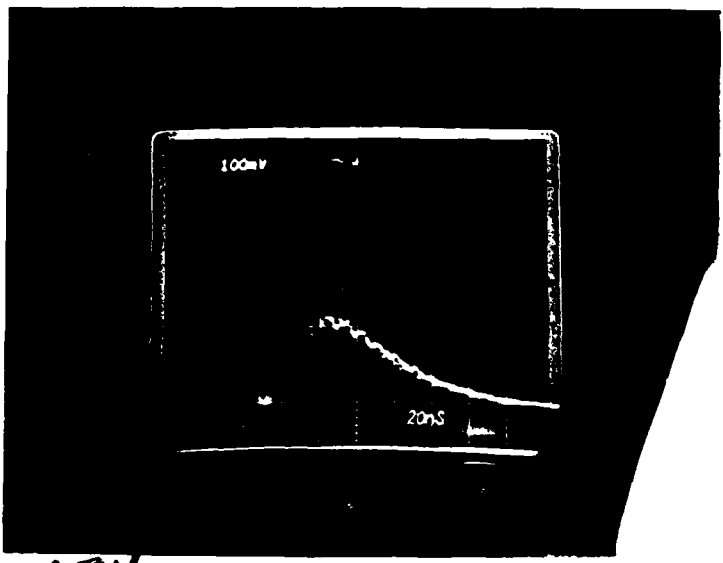
Date	6-4-85
Test Point	90-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	672



Date	6-4-85
Test Point	90R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	673



Date	6-4-85
Test Point	90R-CC-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	674



674

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	6-4-85
Test Point	90-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	

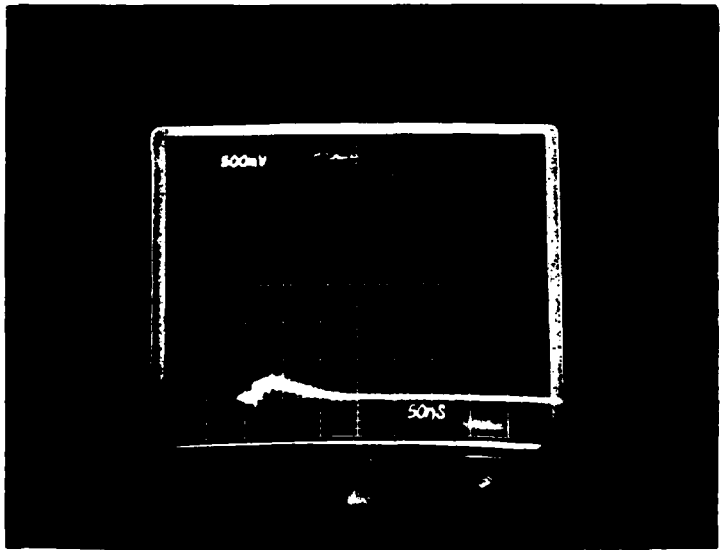
Comments: 675



675

Date	6-4-85
Test Point	90R-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	

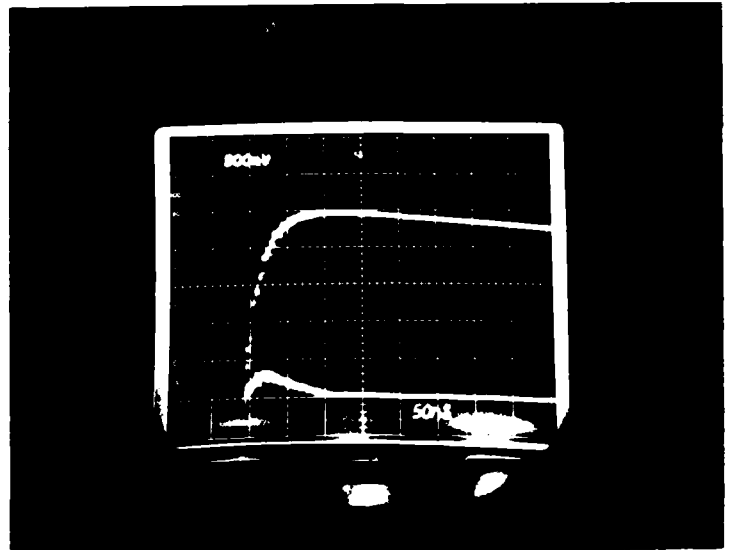
Comments: 676



676

Date	6-4-85
Test Point	90-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	

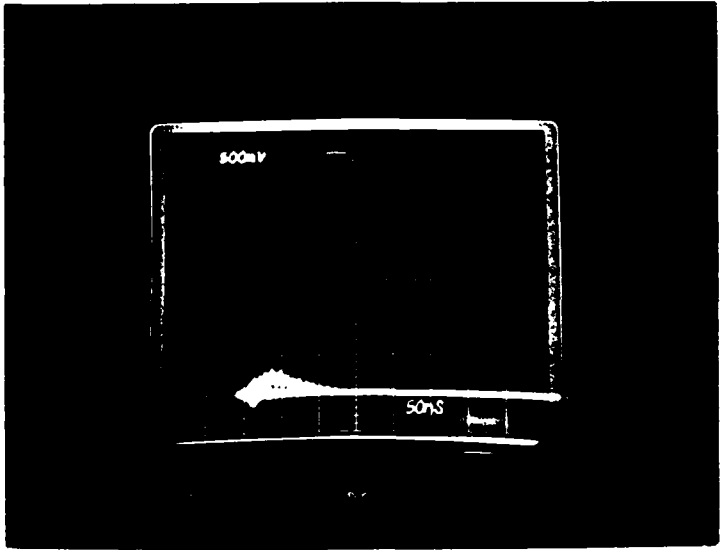
Comments:



677

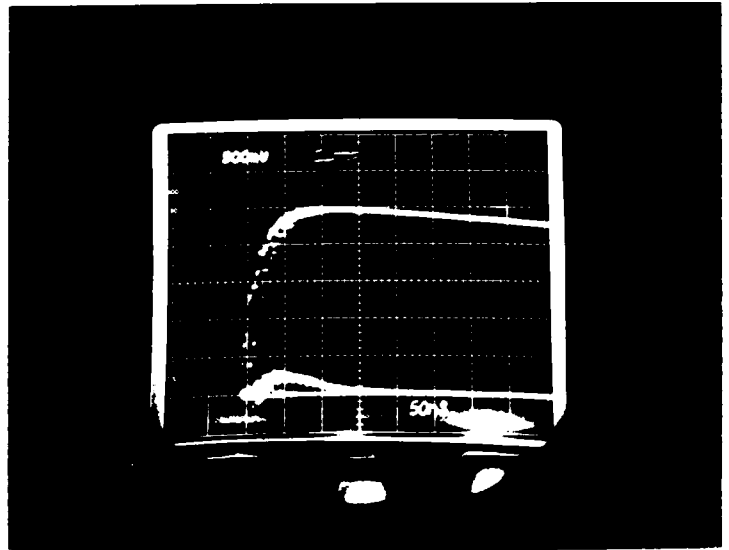
Date	6-4-85
Test Point	90R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	

Comments:



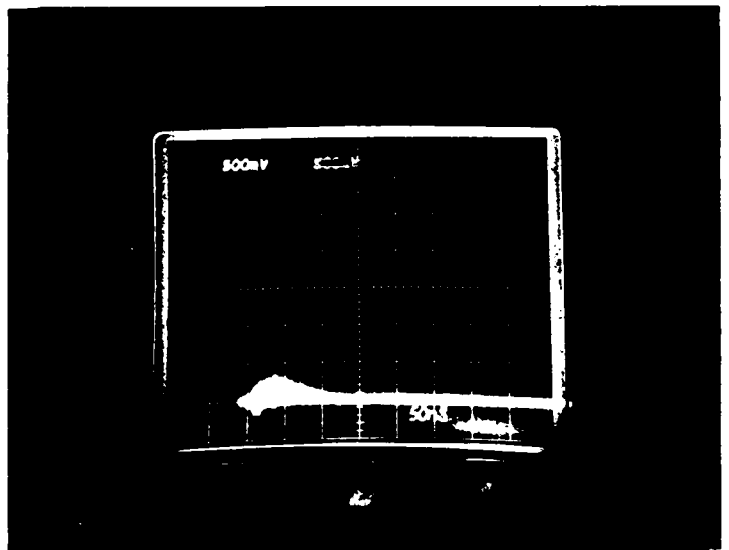
678

Date	6-4-85
Test Point	90-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+4500V
Data Link	
Comments:	679



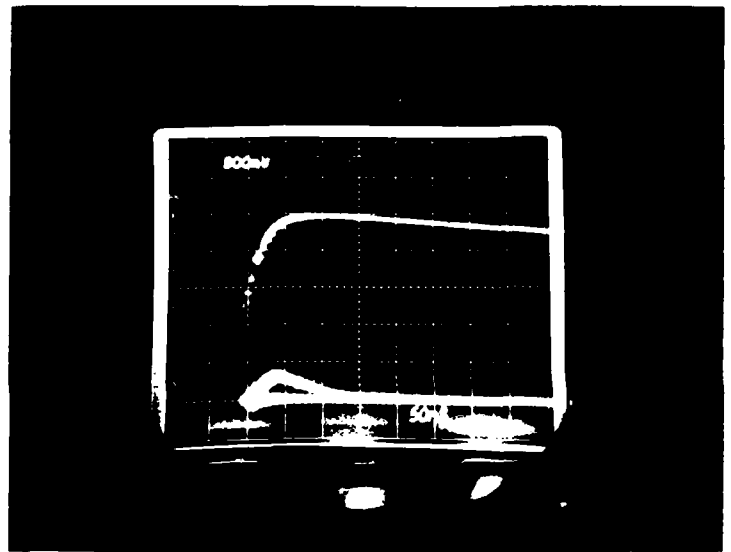
679

Date	6-4-85
Test Point	90R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	-4500V
Data Link	
Comments:	



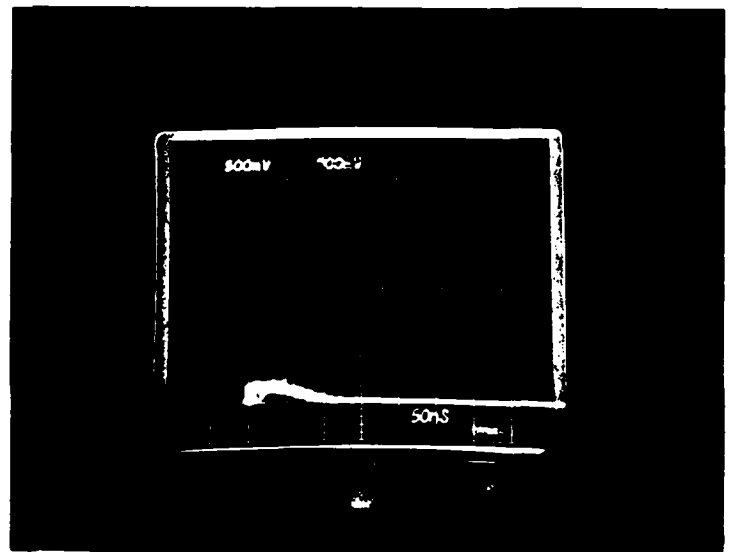
1380

Date	6-4-85
Test Point	90-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+ 4500V
Data Link	
Comments:	681



681

Date	6-4-85
Test Point	90R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	- 4500V
Data Link	
Comments:	

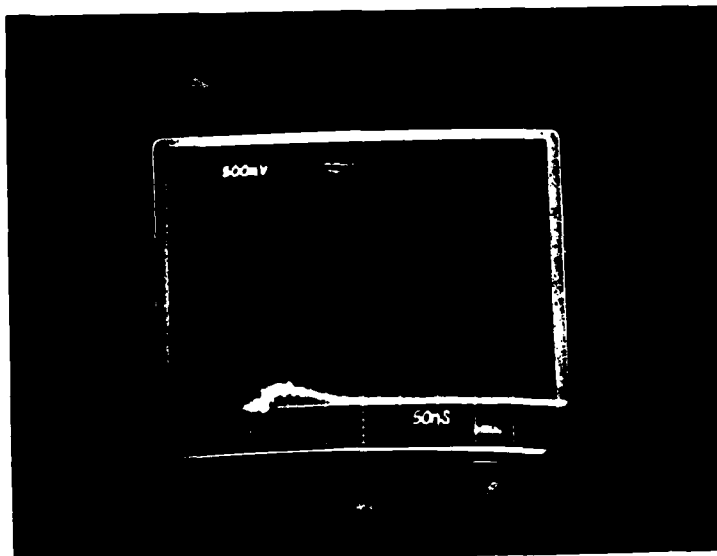


682

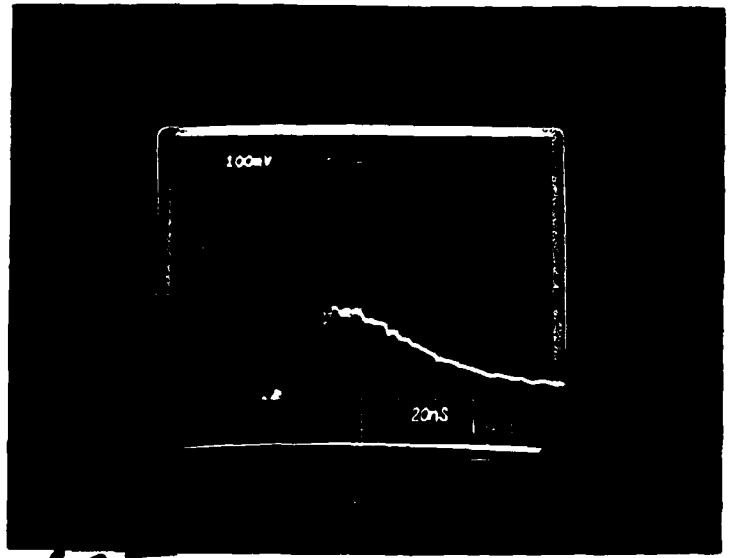
Date	6-4-85
Test Point	93-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+4500V
Data Link	
Comments:	65



Date	6-4-85
Test Point	93R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	-4500V
Data Link	
Comments:	



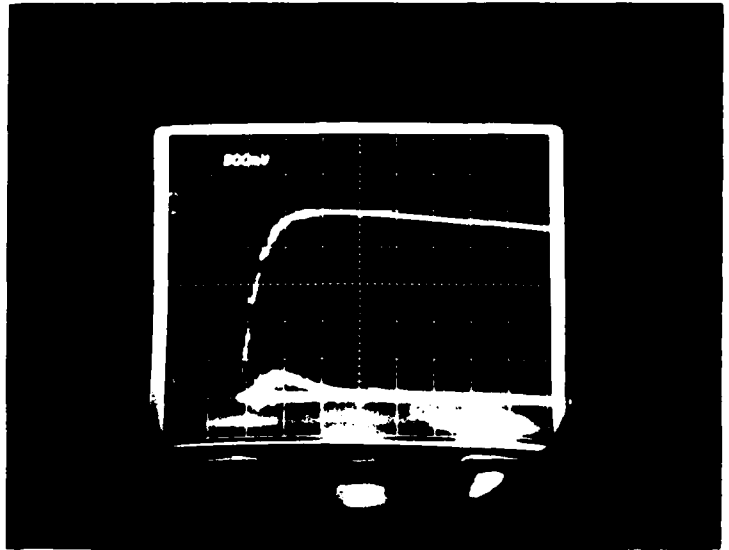
Date	6-4-85
Test Point	93R-CL-Y10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	(+) +500V
Data Link	
Comments:	



685

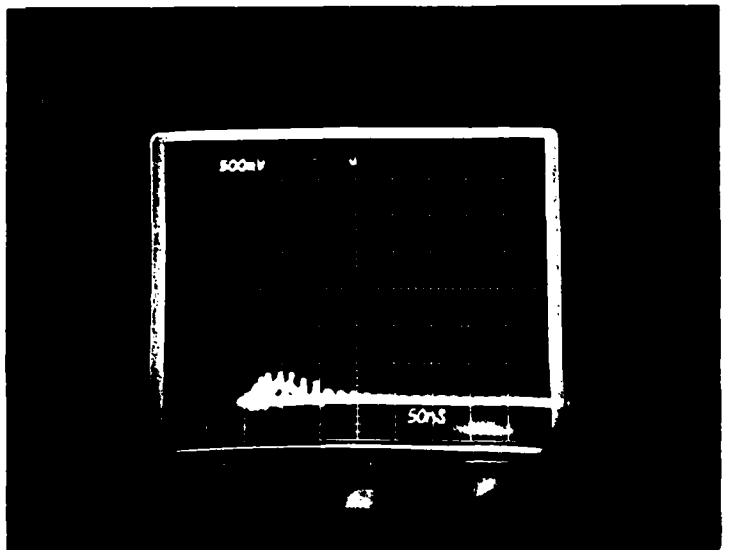
Date	6-4-85
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date	6-4-85
Test Point	93-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	686



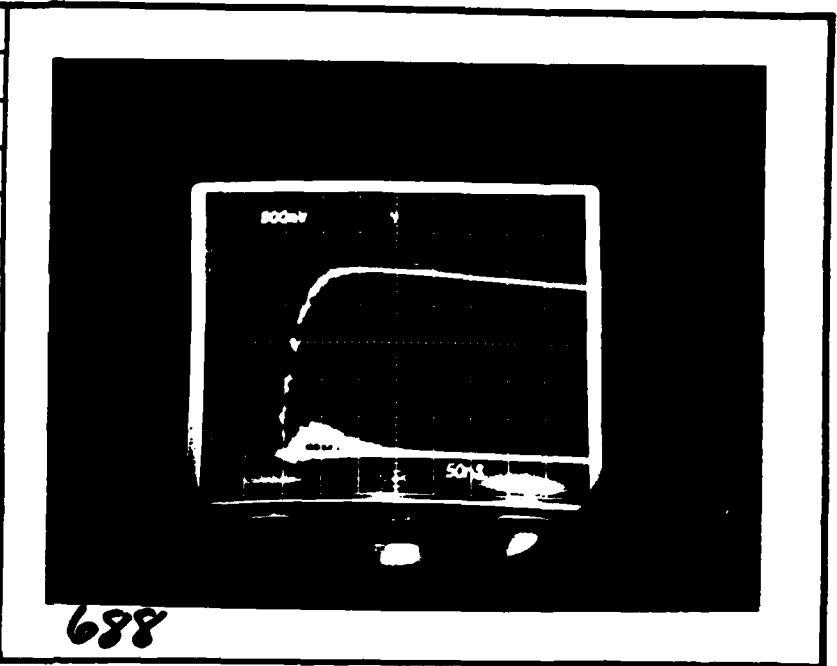
686

Date	6-4-85
Test Point	93R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	

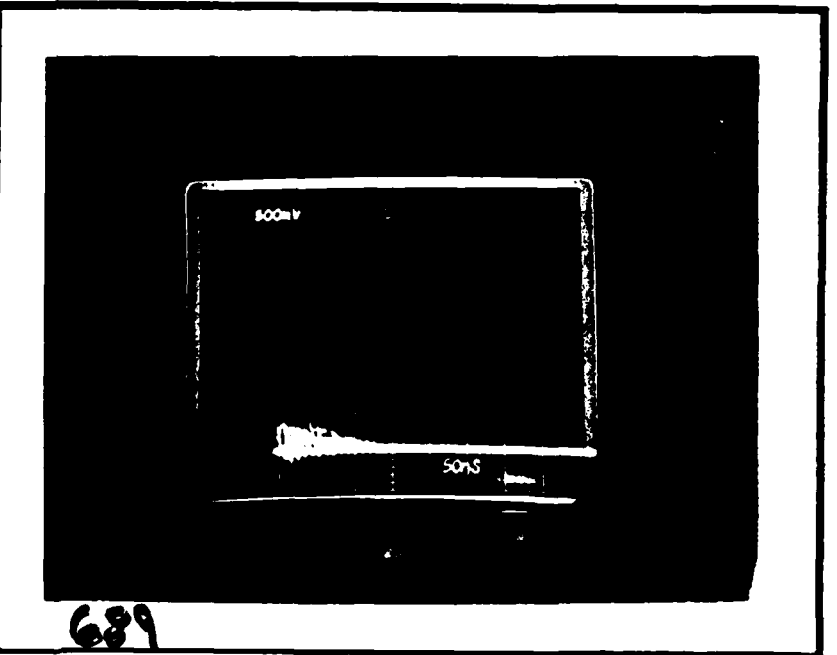


687

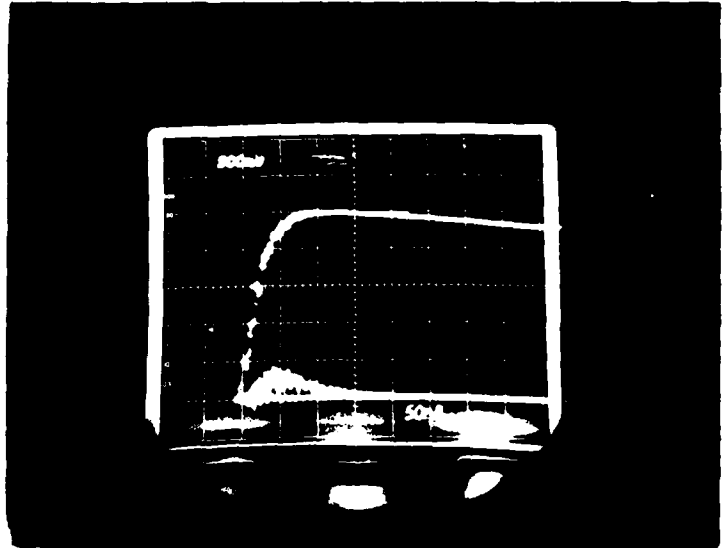
Date	6-4-85
Test Point	93-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	688



Date	6-4-85
Test Point	93R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	689



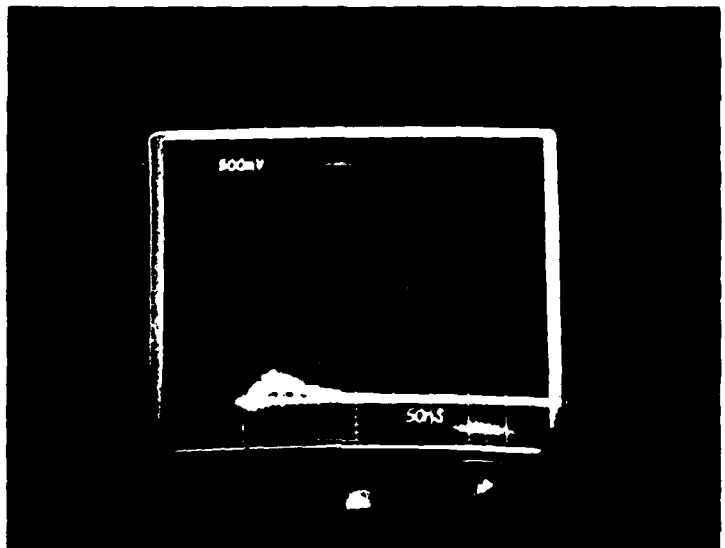
Date 6-4-85
 Test Point 93-CL-1/10-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link



690

Comments:

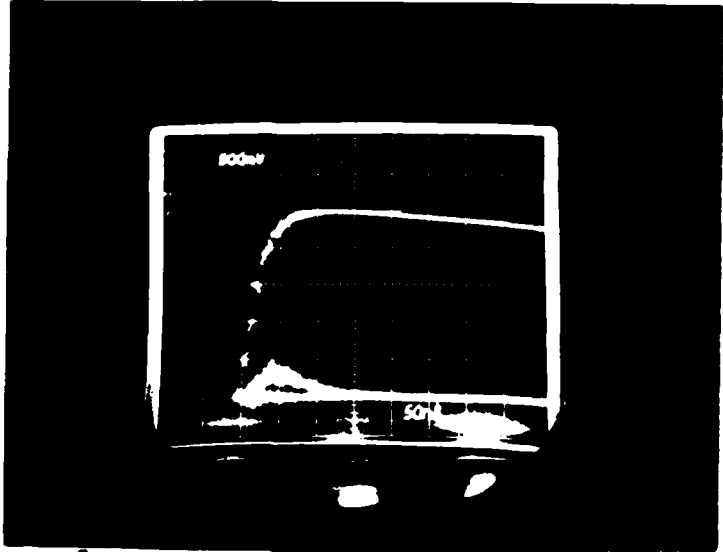
Date 6-4-85
 Test Point 93R-CL-1/10-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link



691

Comments:

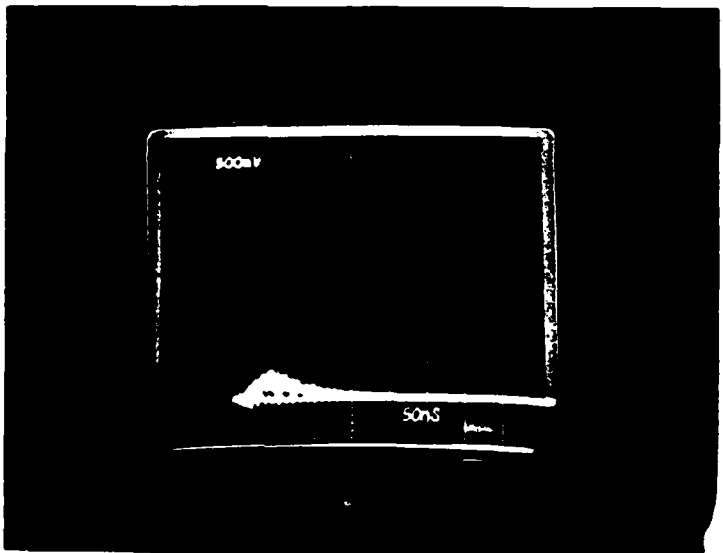
Date 6-4-85
 Test Point 93-CL-1/10-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link



692

Comments: 6

Date 6-4-85
 Test Point 93R-CL-1/10-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link

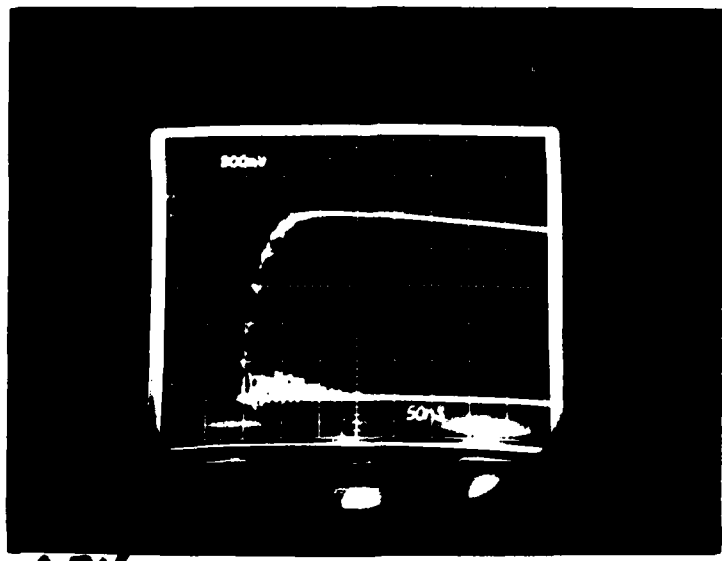


693

Comments:

Date	6-4-85
Test Point	99-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	

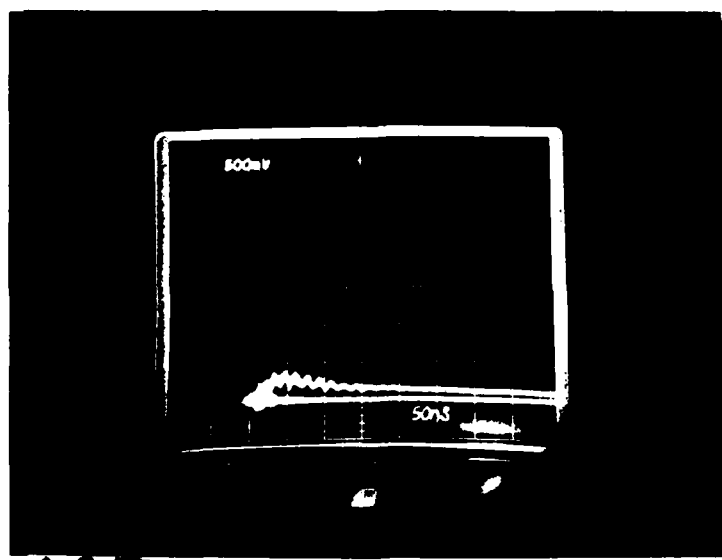
Comments:



694

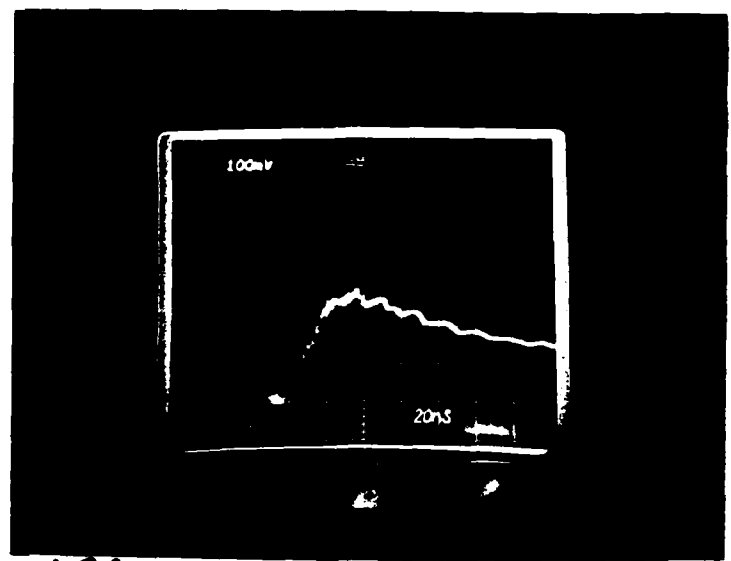
Date	6-4-85
Test Point	99R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	

Comments: 695



695

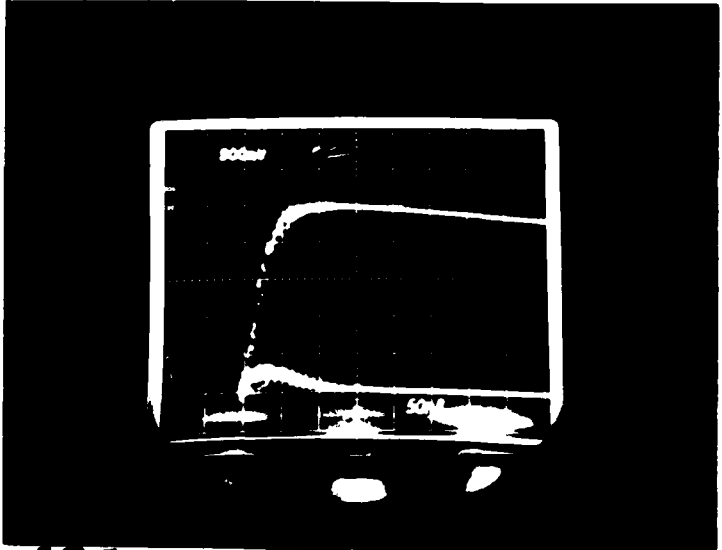
Date	6-4-85
Test Point	99R-CL-400-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	696



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:	

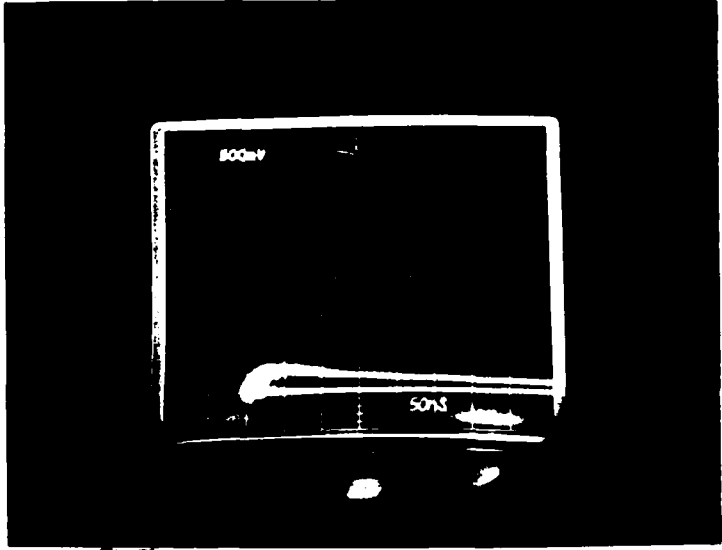
Date	6-4-85
Test Point	99-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+ 4500 V
Data Link	

Comments: 697



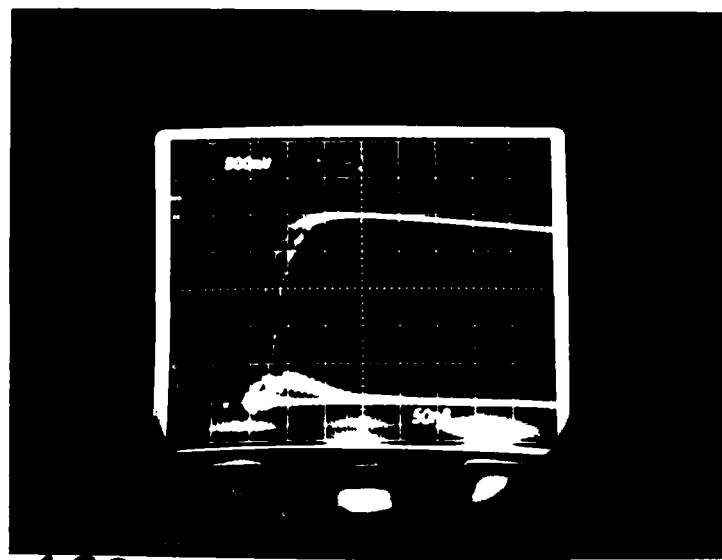
Date	6-4-85
Test Point	99R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	- 4500 V
Data Link	

Comments: 698



Date	6-4-85
Test Point	99-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	

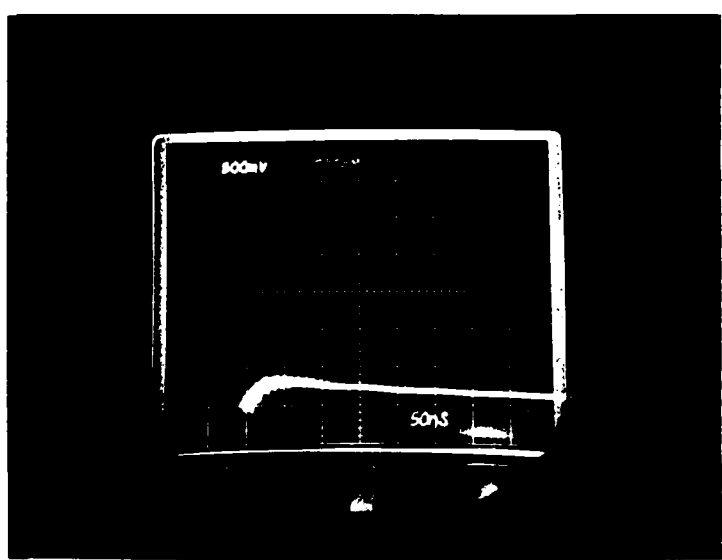
Comments: *799*



699

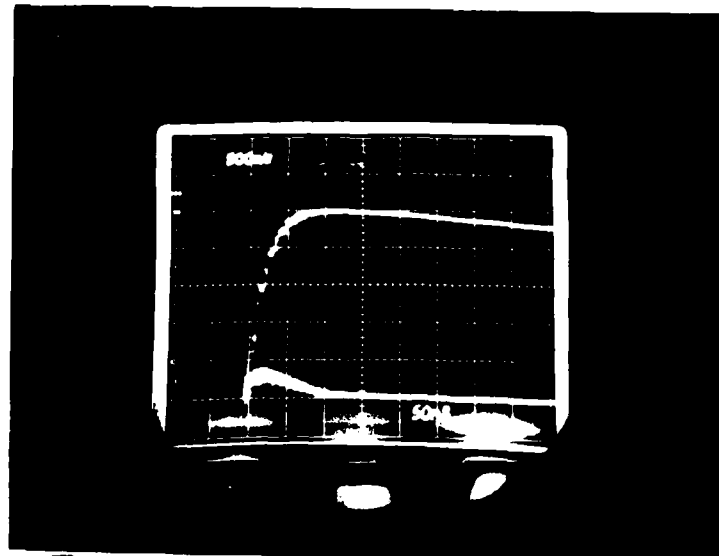
Date	6-4-85
Test Point	99R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	

Comments: *700*



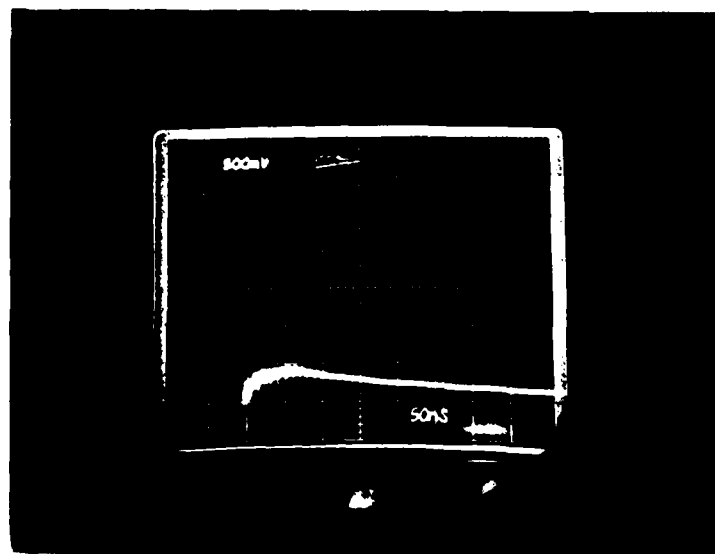
700

Date	6-4-85
Test Point	99-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	



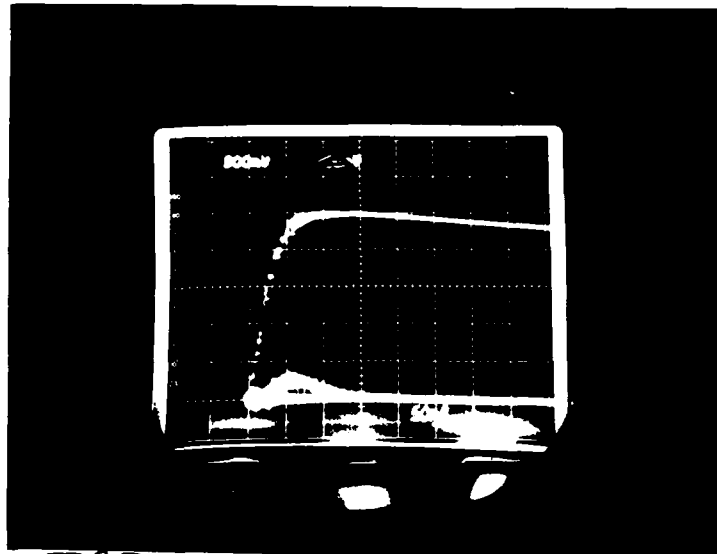
701

Date	6-4-85
Test Point	99R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



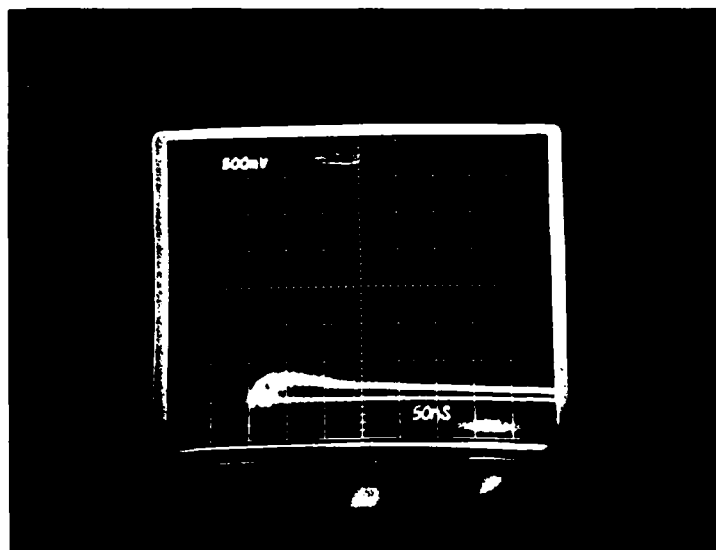
702

Date	6-4-85
Test Point	99-CL-410-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+ 4500 V
Data Link	
Comments:	703



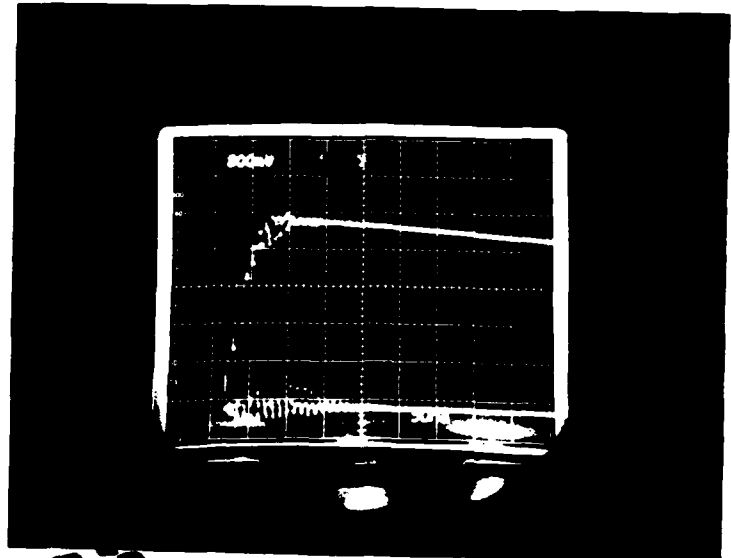
703

Date	6-4-85
Test Point	99R-CL-410-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	- 4500 V
Data Link	
Comments:	



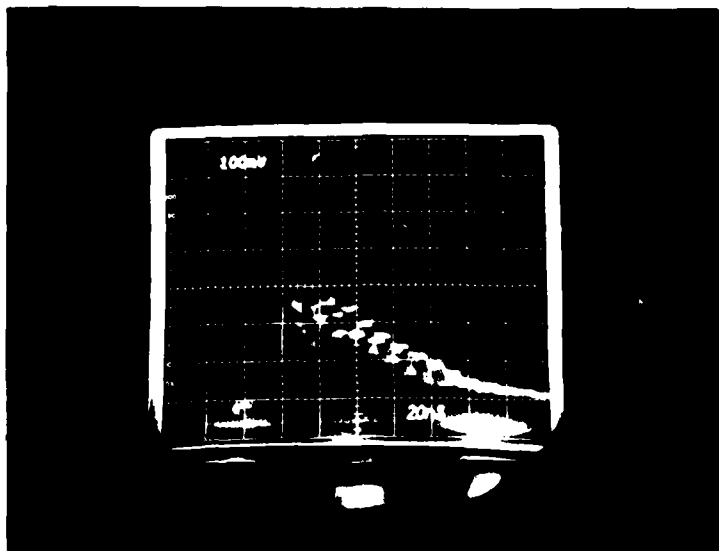
704

Date	6-4-85
Test Point	102-CL-400-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	752



752

Date	6-4-85
Test Point	102R-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	753



753

Date 6-4-85
 Test Point 102-CL-1/10-B
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link

Comments:

754

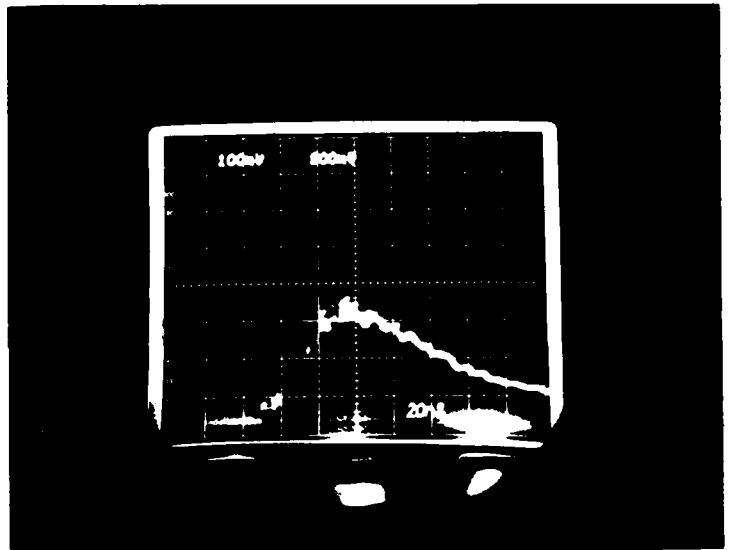


754

Date 6-4-85
 Test Point 102R-CL-1/10-B
 Amplification dB
 Attenuation 20 dB
 Horizontal 20 ns/div 1
 Vertical .1V (190) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link

Comments:

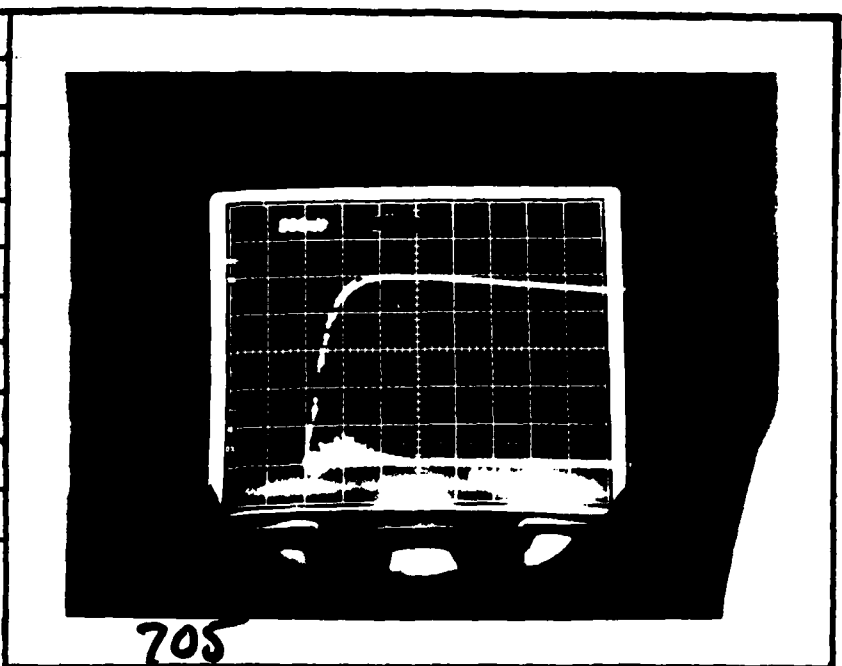
755



755

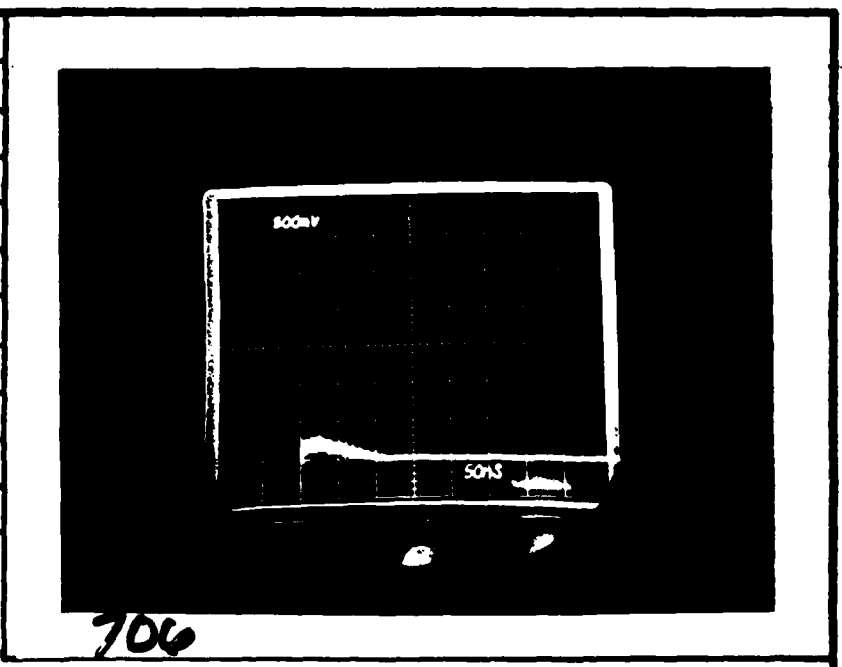
Date	6-4-85
Test Point	104-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	

Comments: 705

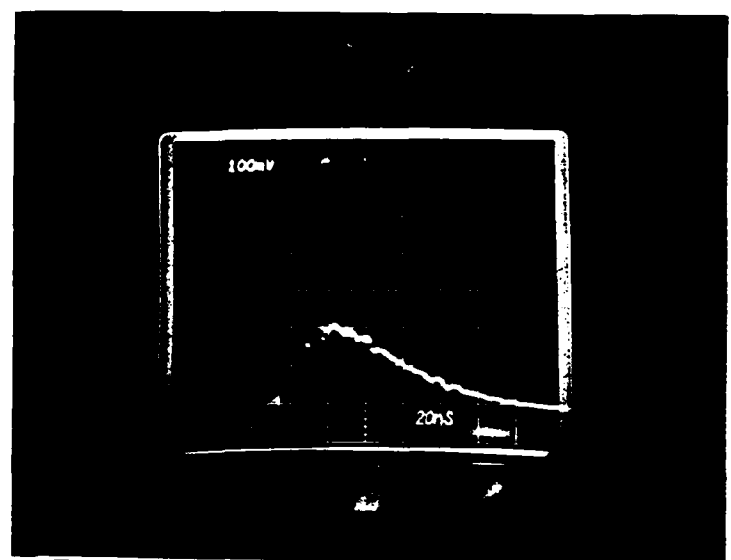


Date	6-4-85
Test Point	104R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	

Comments: 706



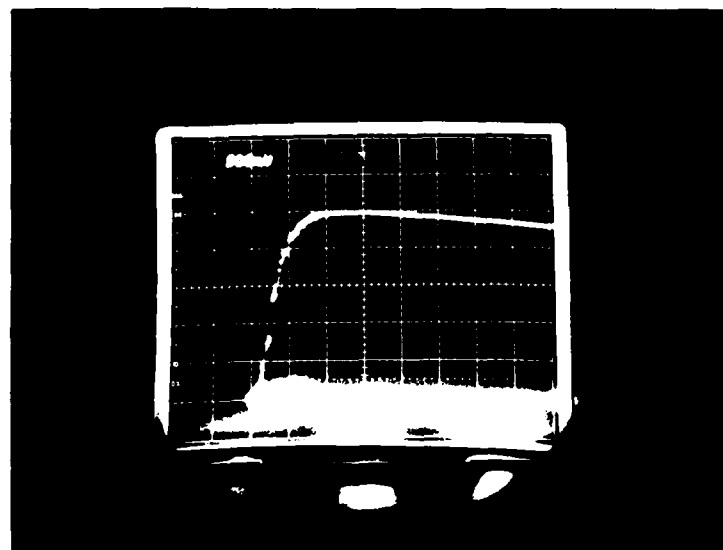
Date	6-4-85
Test Point	104R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	707



707

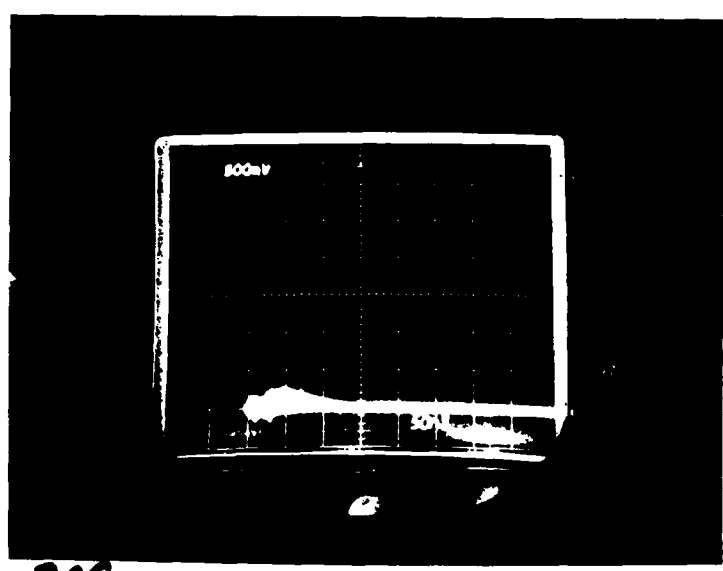
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date 6-4-85
 Test Point 104-CL-110-B
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link
 Comments: 708



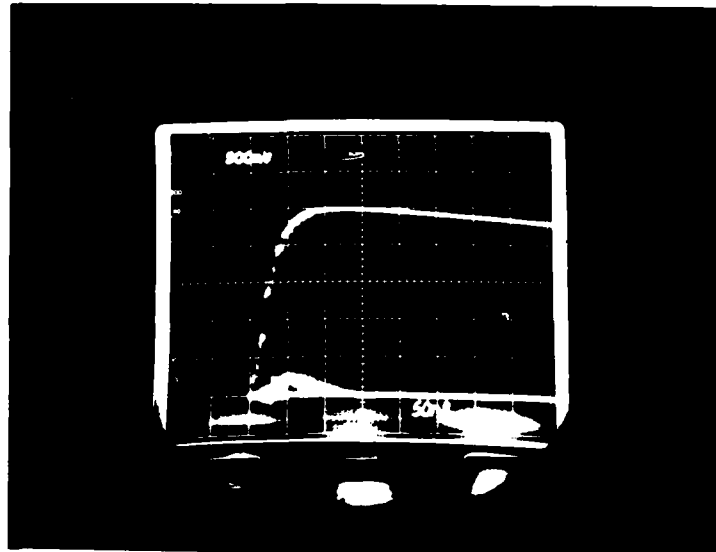
708

Date 6-4-85
 Test Point 104R-CL-110-B
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link
 Comments: 709



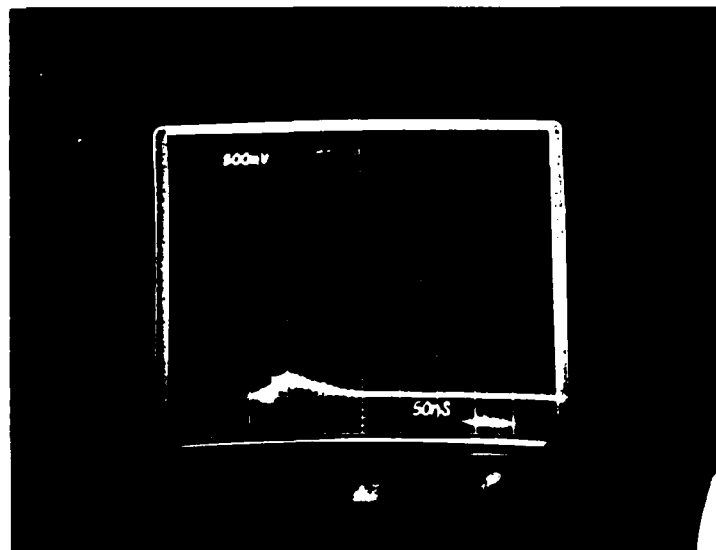
709

Date	6-4-85
Test Point	104-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	+4500 ✓
Data Link	
Comments:	710



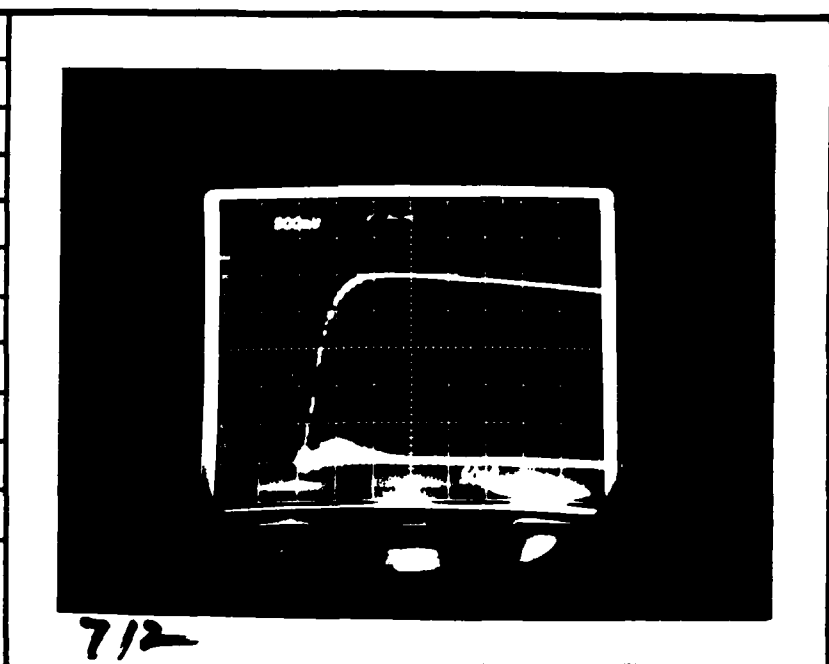
710

Date	6-4-85
Test Point	104R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulsar Level	-4500V
Data Link	
Comments:	711

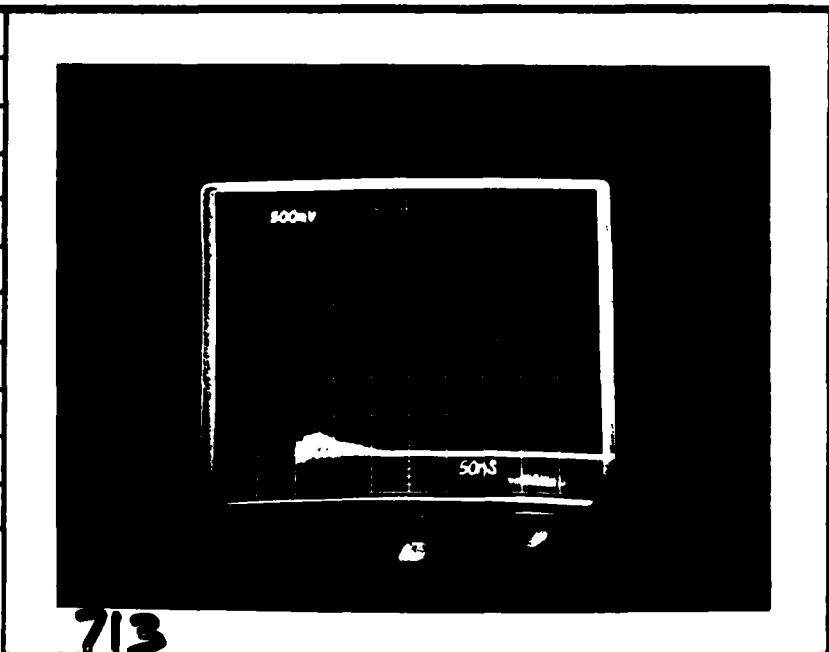


711

Date	6-4-85
Test Point	104-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	712

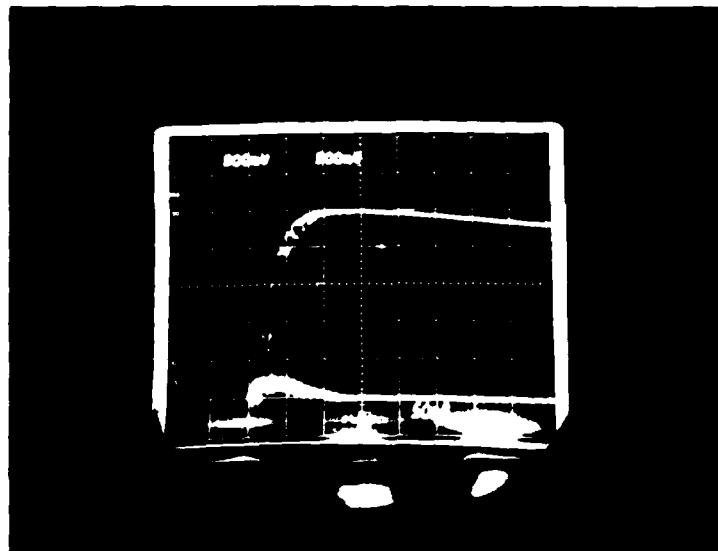


Date	6-4-85
Test Point	104R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	713



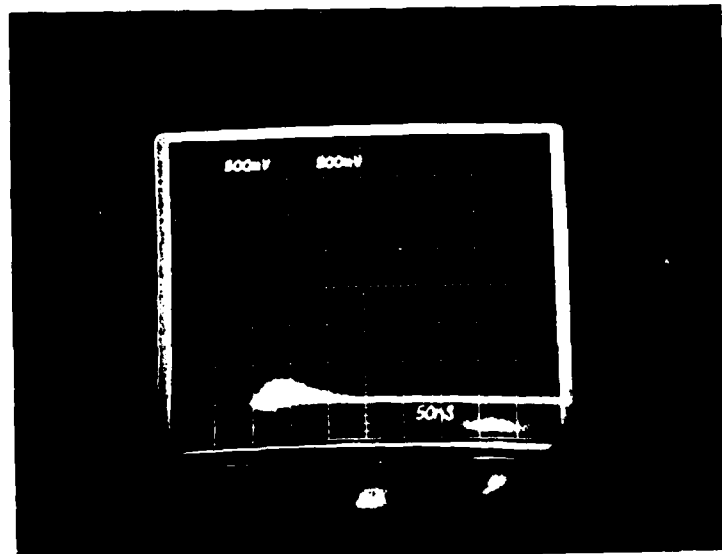
Date	6-4-85
Test Point	104-CL-410-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+ 4500 V
Data Link	

Comments: 717



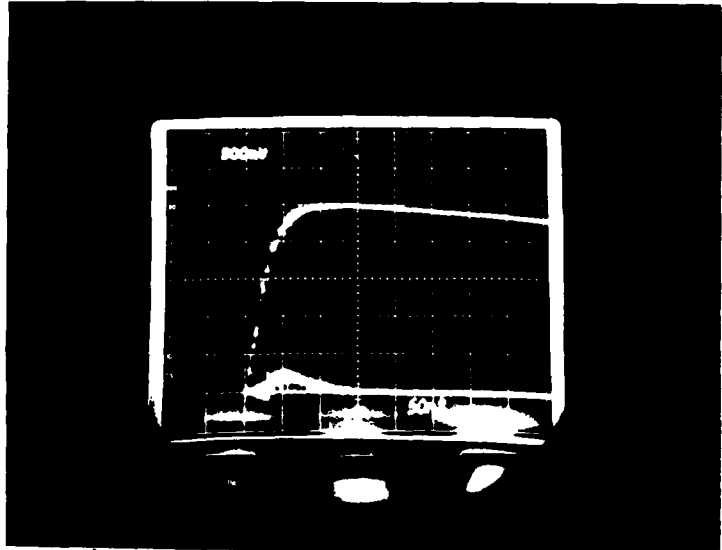
Date	6-4-85
Test Point	104R-CL-410-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	- 4500 V
Data Link	

Comments: 715



Date	6-4-85
Test Point	107-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	

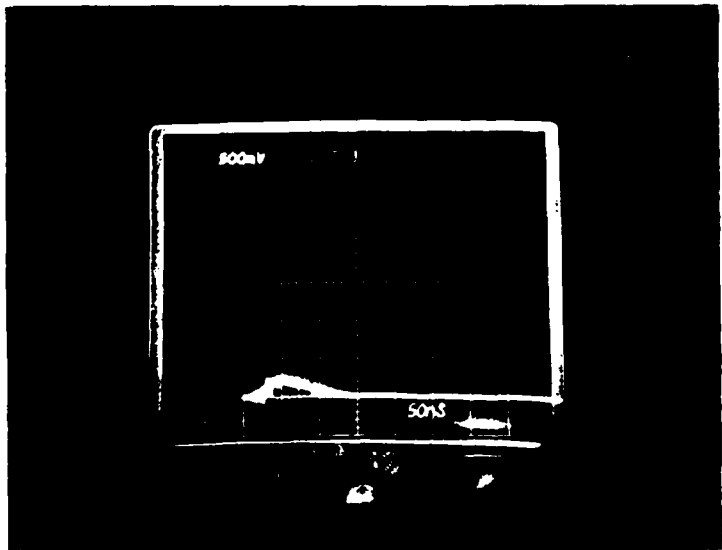
Comments: 716



716

Date	6-4-85
Test Point	107R-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	

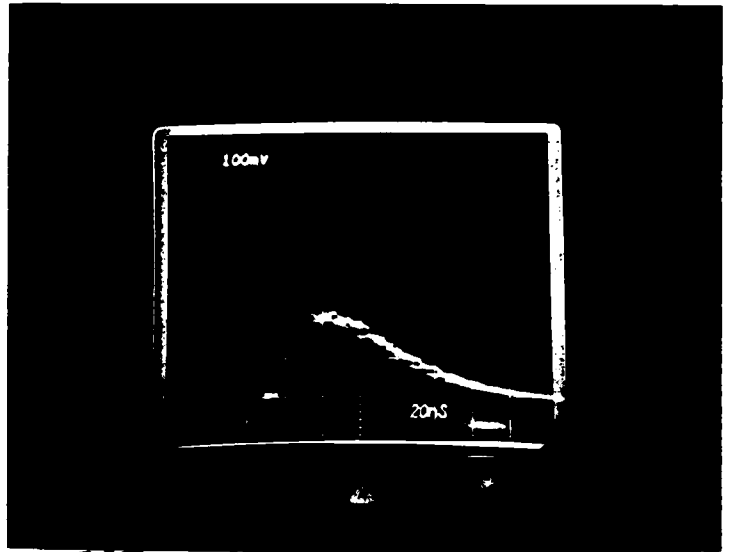
Comments: 717



717

Date	6-4-85
Test Point	107R-CL-40-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	

Comments: 719

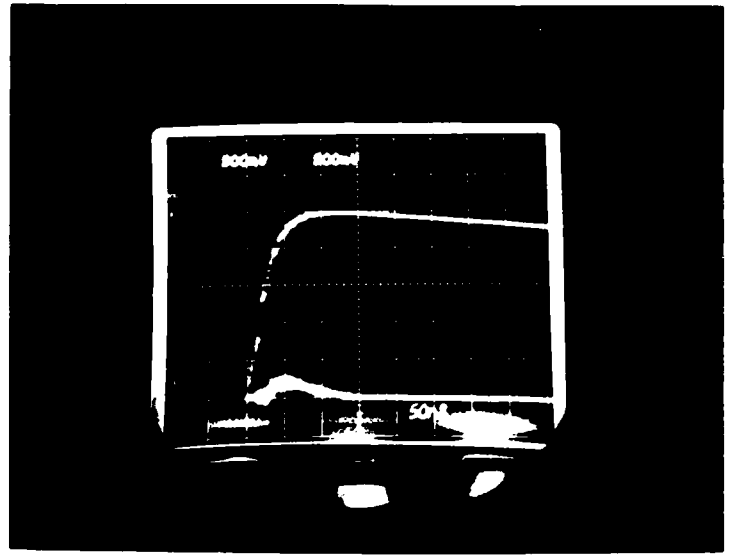


718

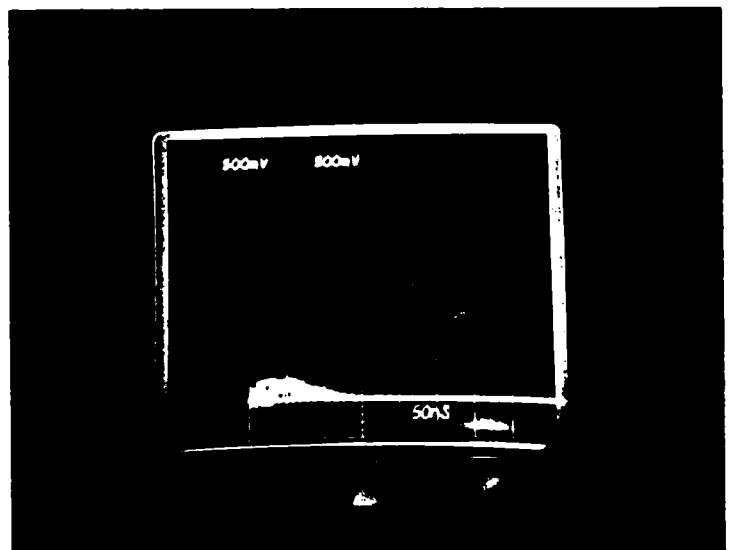
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	

Comments:

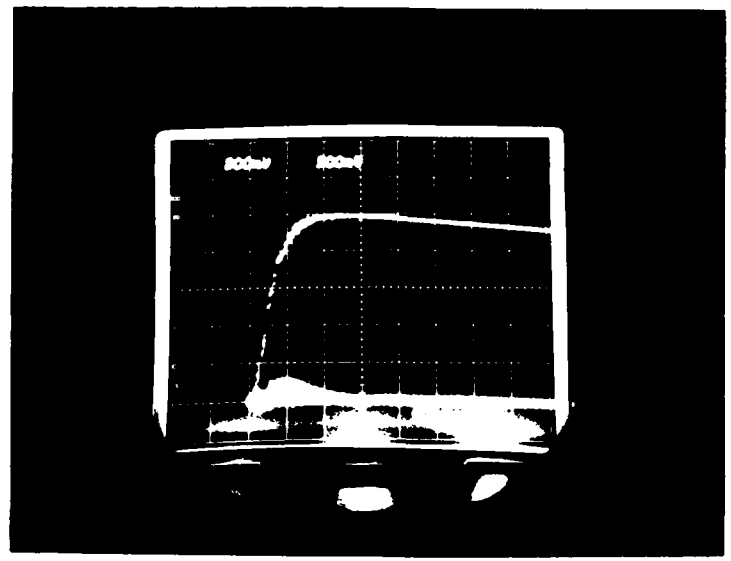
Date 6-4-85
 Test Point 107-CL-1/10-B
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link
 Comments: 719



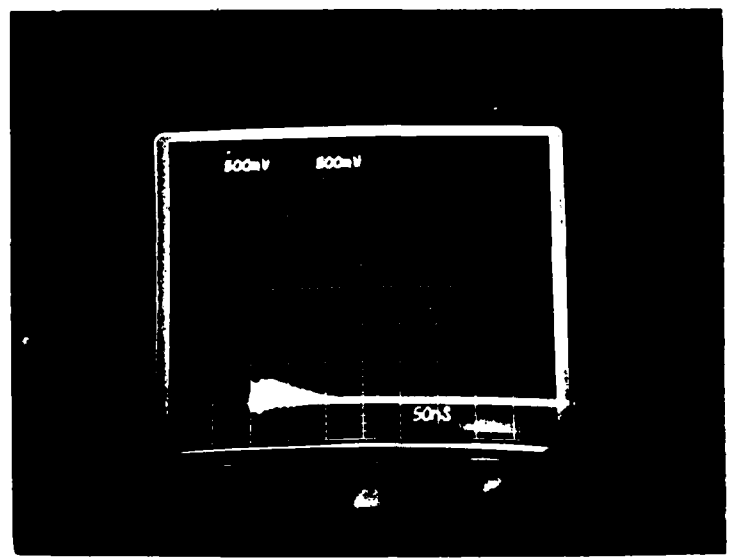
Date 6-4-85
 Test Point 107R-CL-1/10-B
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link
 Comments: 720



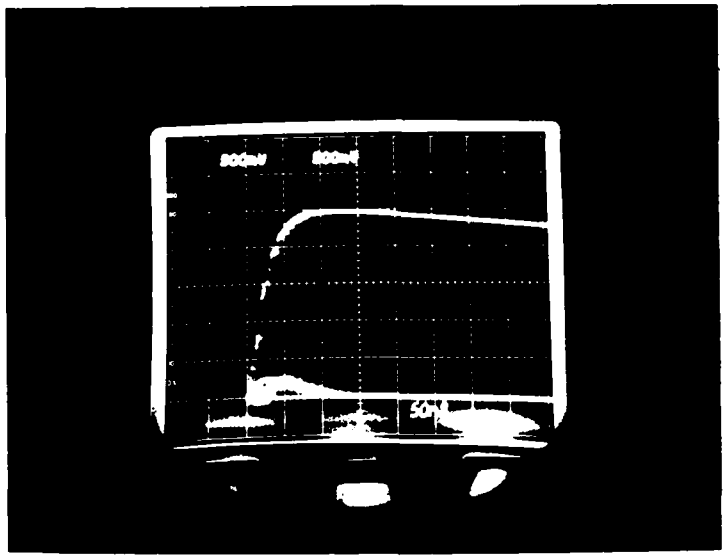
Date 6-4-85
 Test Point 107-CL-110-C
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950 V) μ V/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500 \checkmark
 Data Link
 Comments: 721



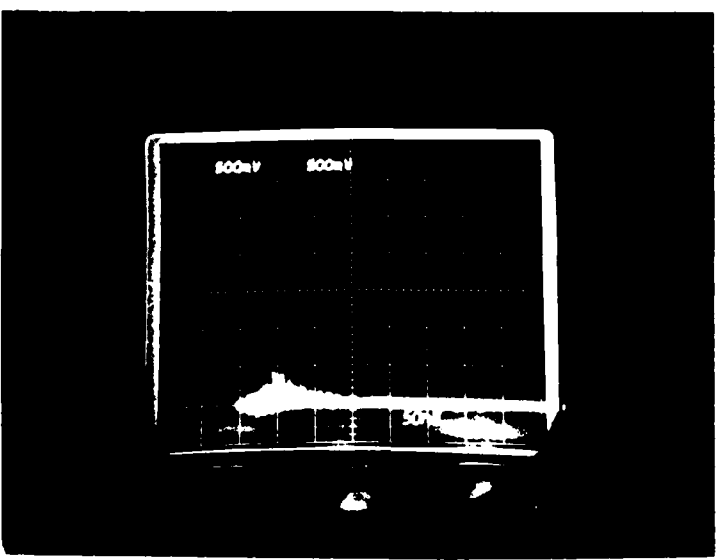
Date 6-4-85
 Test Point 107R-CL-110-C
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950V) μ V/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link
 Comments: 722



Date	6-4-85
Test Point	107-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	723

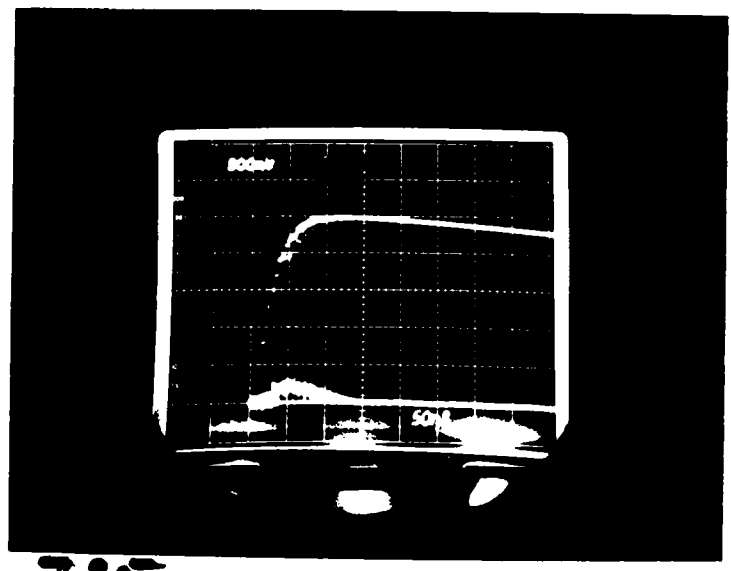


Date	6-4-85
Test Point	107R-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	724



Date 6-4-85
 Test Point 107-CL-410-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link

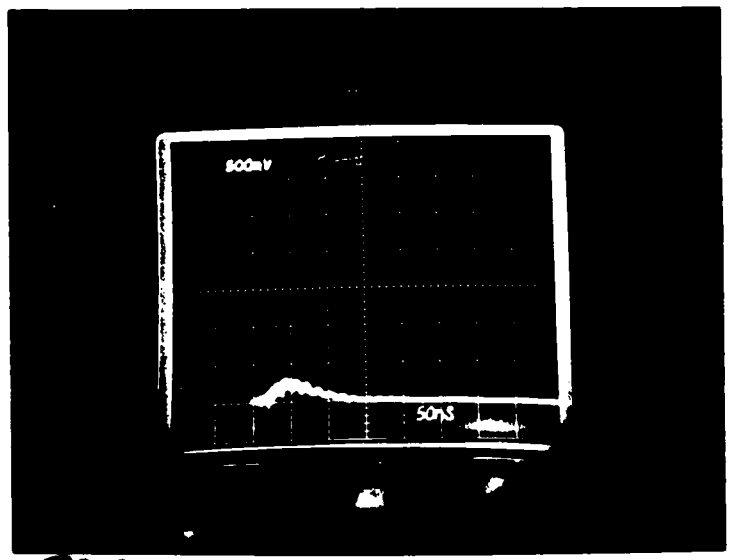
Comments: 725



725

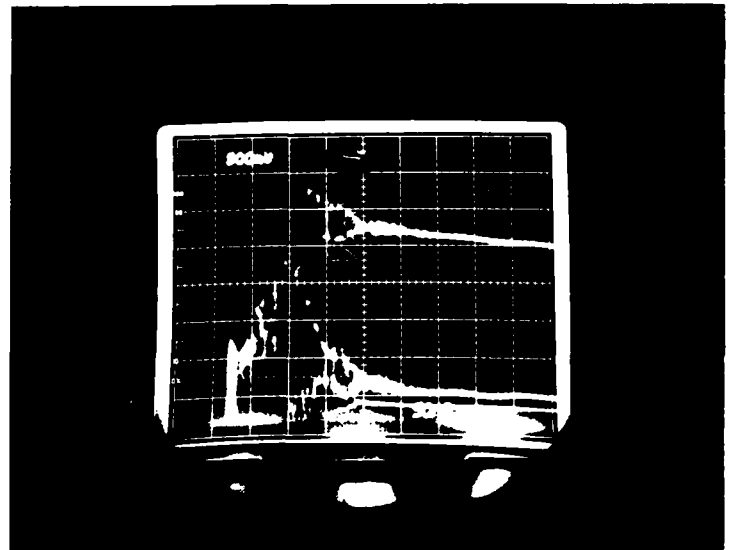
Date 6-4-85
 Test Point 107R-CL-410-E
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link

Comments: 726

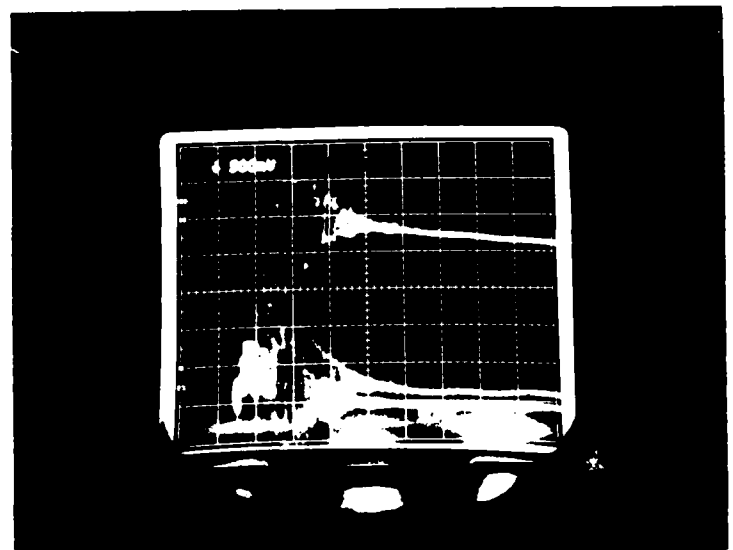


726

Date	5-30-85
Test Point	109-CL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(9.50V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	"HOT LEAD" 474

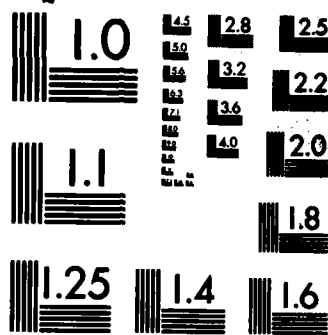


Date	5-30-85
Test Point	109R-CL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(9.50V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	"HOT LEAD" 475



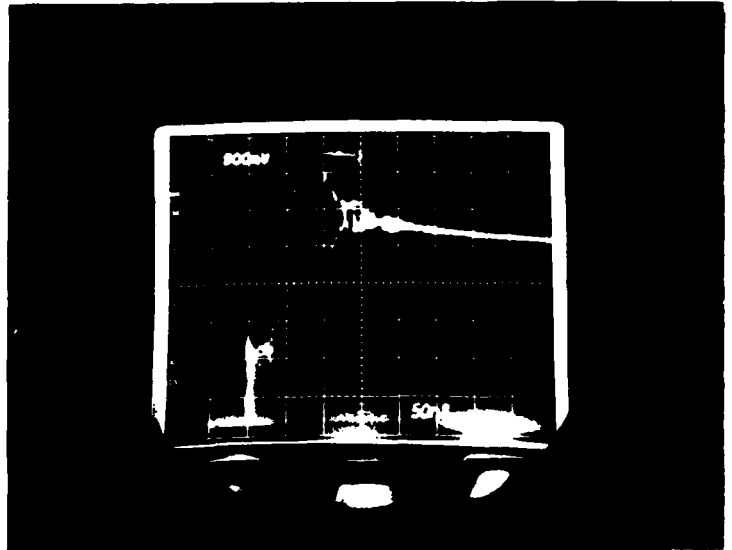
AD-A164 434L ELECTROMAGNETIC PULSE/TRANSIENT THREAT TESTING OF 3/3
PROTECTION DEVICES FOR (U) ELECTROSPACE SYSTEMS INC
ARLINGTON VA D BODSON ET AL 31 OCT 85
UNCLASSIFIED NCS-T18-85-10-VOL-3-SEC-3 DCA100-85-C-0010 F/G 20/14 USGO





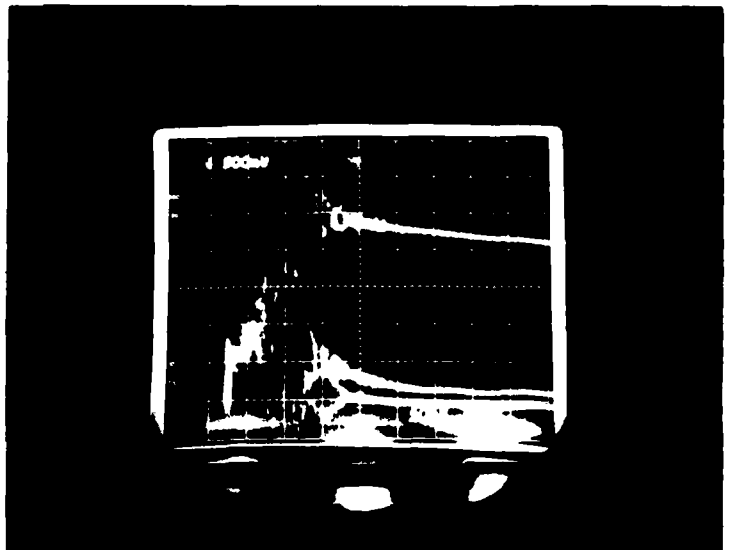
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Date	5-30-85
Test Point	109-CL-1/10-0
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	11 COMMON LEAD "476



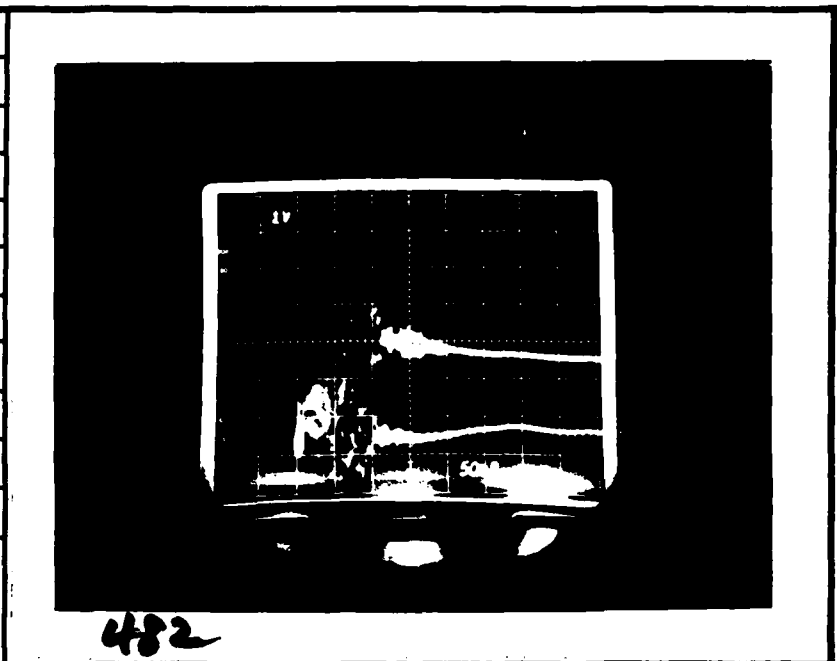
476

Date	5-30-85
Test Point	109R-CL-1/10-0
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	477 PULSE ON COMMON

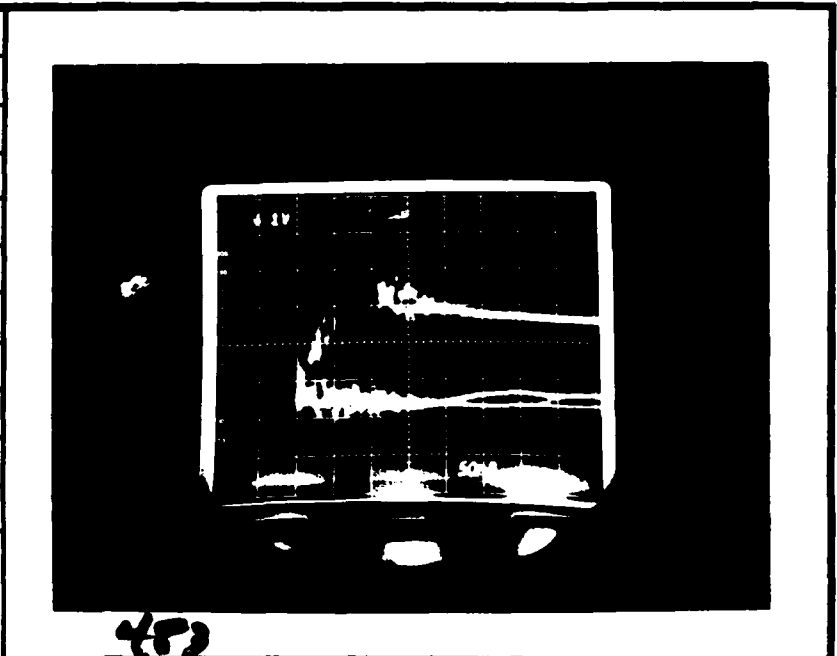


477

Date	5-31-85
Test Point	110-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	482
	Peach "COMMON LEAD"



Date	5-31-85
Test Point	110R-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	483
	Peach "COMMON LEAD"



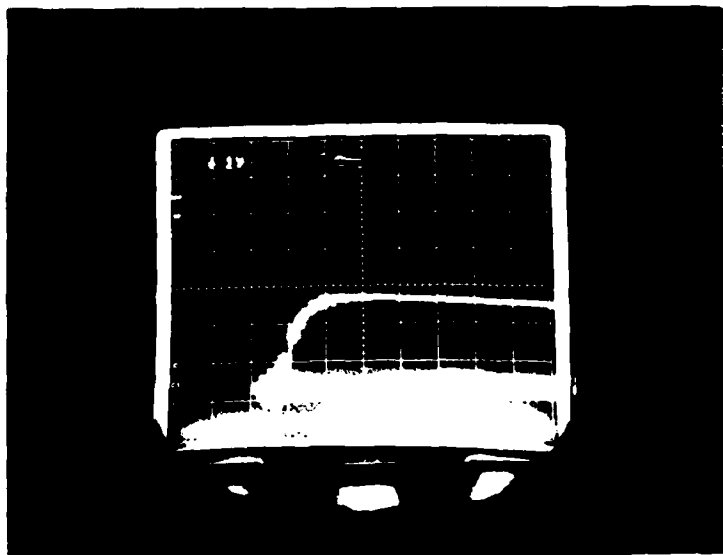
Date **5-31-85**
 Test Point **110-CL-1/10-Ø**
 Amplification **dB**
 Attenuation **20 dB**
 Horizontal **50 ns/div 1**
 Vertical **1V (1900V) mV/div 1**
 Horizontal **ns/div 2**
 Vertical **ns/div 2**
 Configuration
 Pulsar Level **+ 4500V**
 Data Link
 Comments: **PEACH 486**



486

"HOT LEAD"

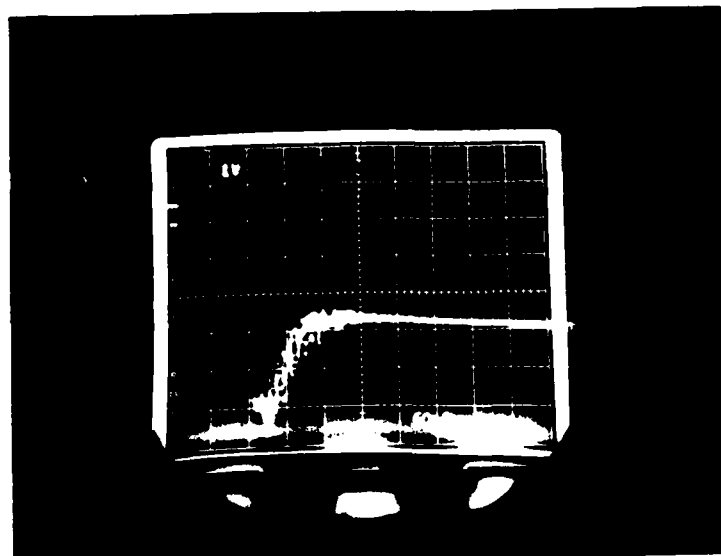
Date **5-31-85**
 Test Point **110R-CL-1/10-Ø**
 Amplification **dB**
 Attenuation **20 dB**
 Horizontal **50 ns/div 1**
 Vertical **1V (1900V) mV/div 1**
 Horizontal **ns/div 2**
 Vertical **ns/div 2**
 Configuration
 Pulsar Level **-4500V**
 Data Link
 Comments: **PEACH 487**



487

HOT LEAD

Date	5-31-85
Test Point	III-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	WABER III



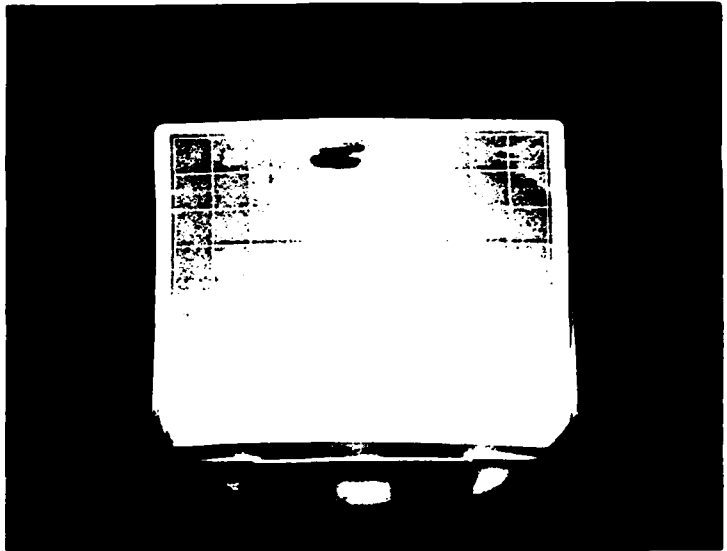
III

HOT TO NEUTRAL (COMMON)
SCOPE DID NOT TRIGGER

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	5-31-85
Test Point	112-AL-1/10-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	V (1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	489

ARCHER

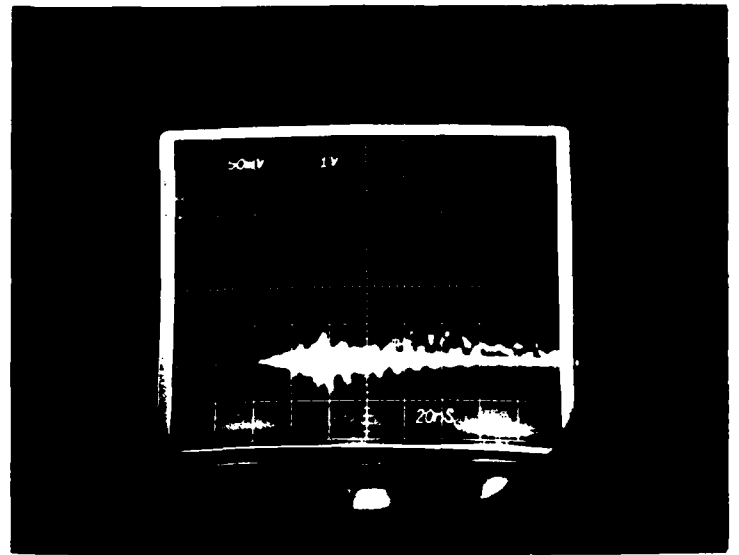


489

DEVICE ARCING
COMMON TO GND.

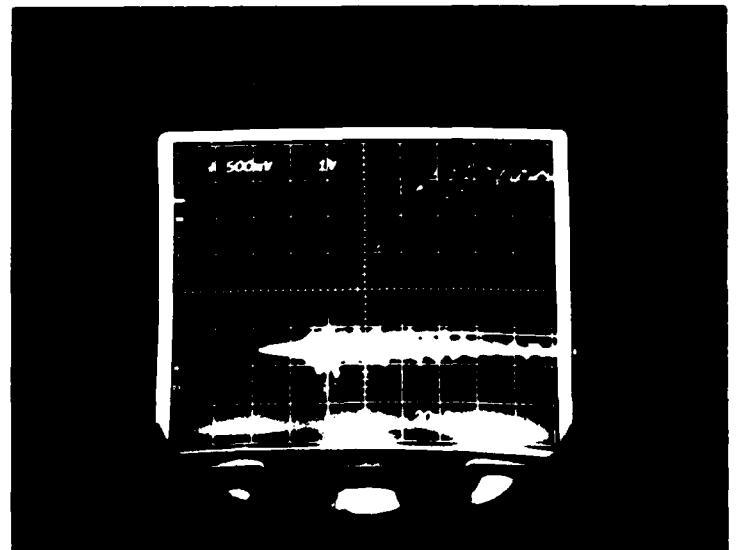
Date	5-21-85
Test Point	112-AL-1/10-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	V (1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	

Date	5-30-85
Test Point	113-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.05V(12) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	454



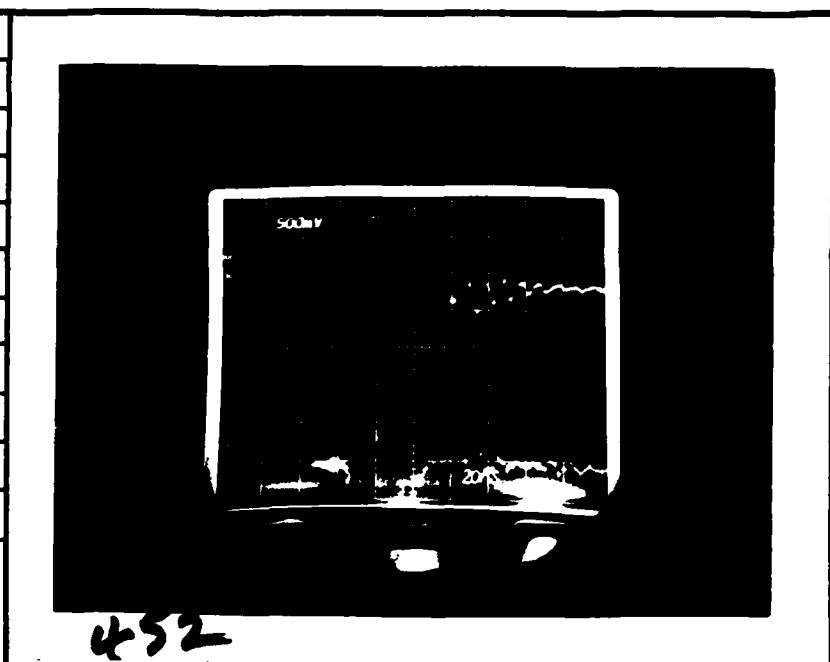
454

Date	5-30-85
Test Point	113R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.5V(120) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	455

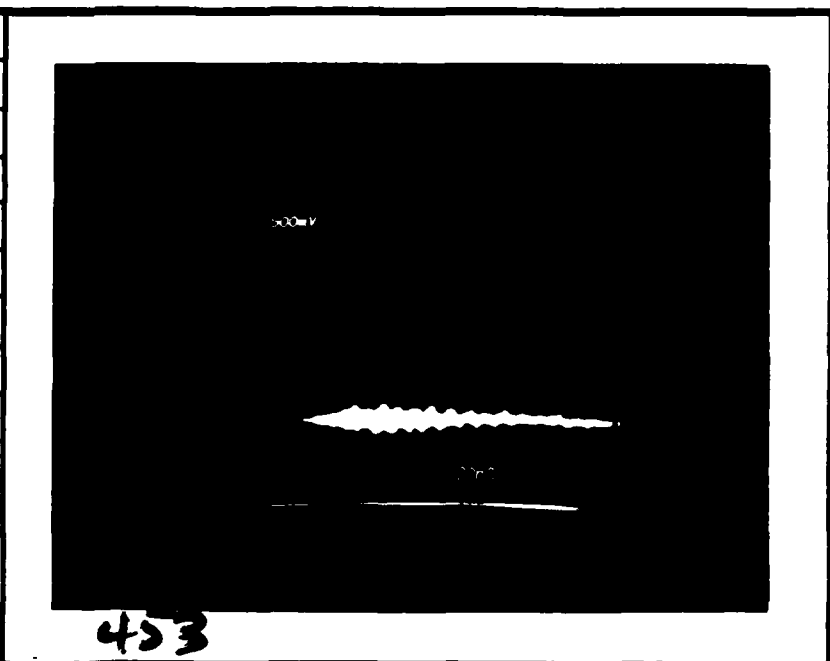


455

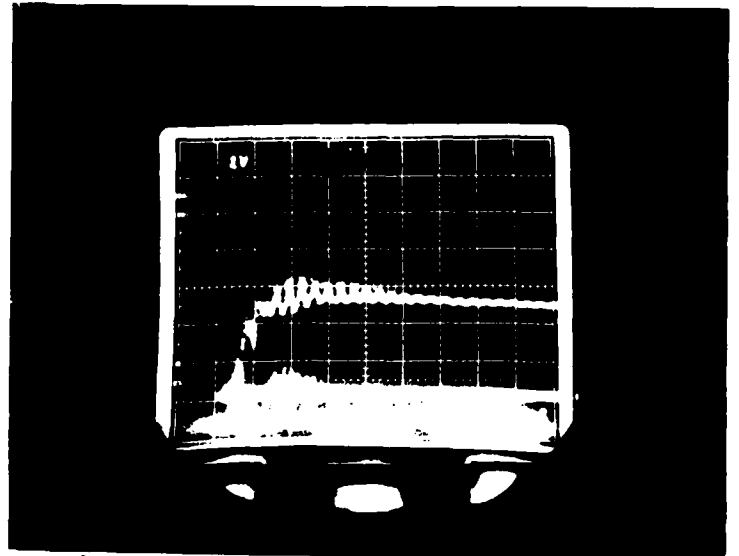
Date	5-30-85
Test Point	113-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.5V(120) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500V
Data Link	
Comments:	452



Date	5-30-85
Test Point	113-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	.5V(120) ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500V
Data Link	
Comments:	453

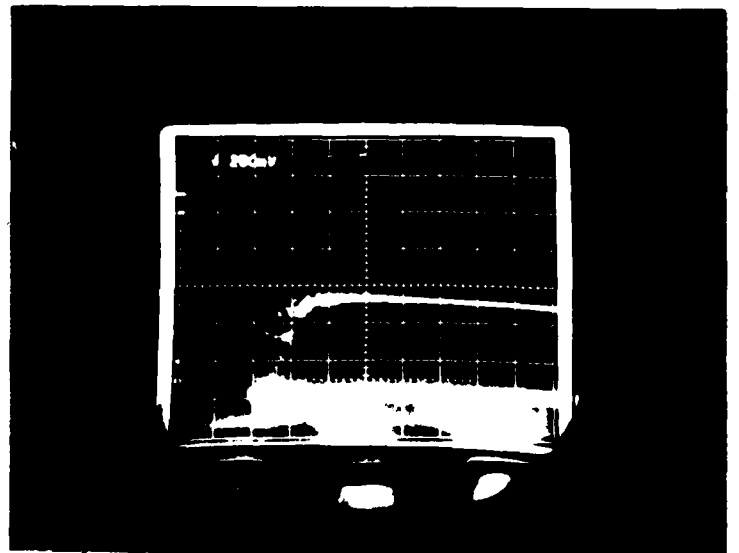


Date 5-30-85
 Test Point 114-CL-410-Φ
 Amplification dB
 Attenuation dB
 Horizontal 20 ns/div 1
 Vertical .5V (950V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link
 Comments: 512



412
512

Date 5-30-85
 Test Point 114R-CL-410-Φ
 Amplification dB
 Attenuation 20 dB
 Horizontal 20 ns/div 1
 Vertical .2V (380V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link
 Comments:



REF @ 1V (1900V)

413
513

END

FILMED

3

-86

DTIC