

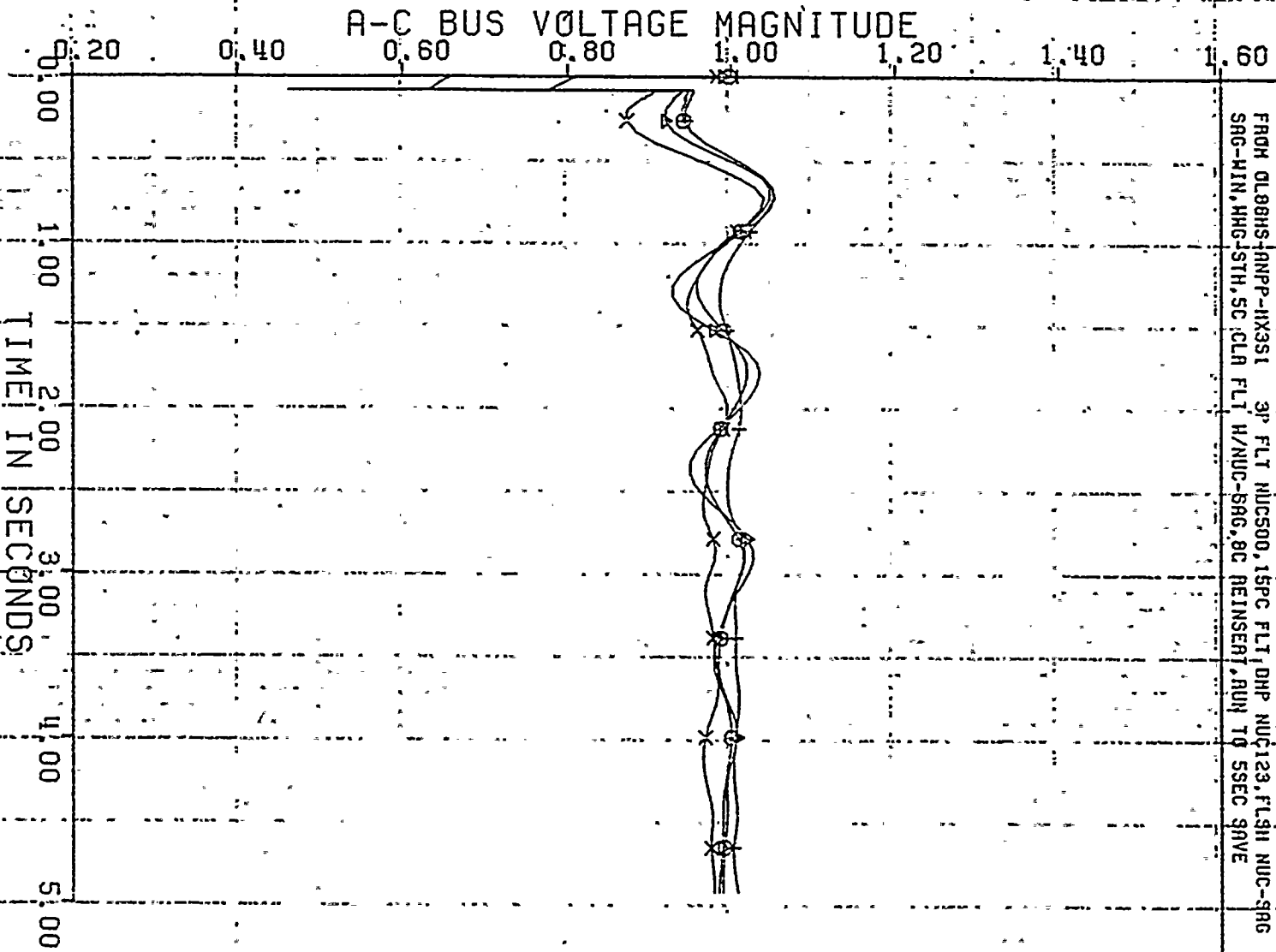
11-14-75

STUDY CASE 1986 ANPP MX-S1

50-528
529
536

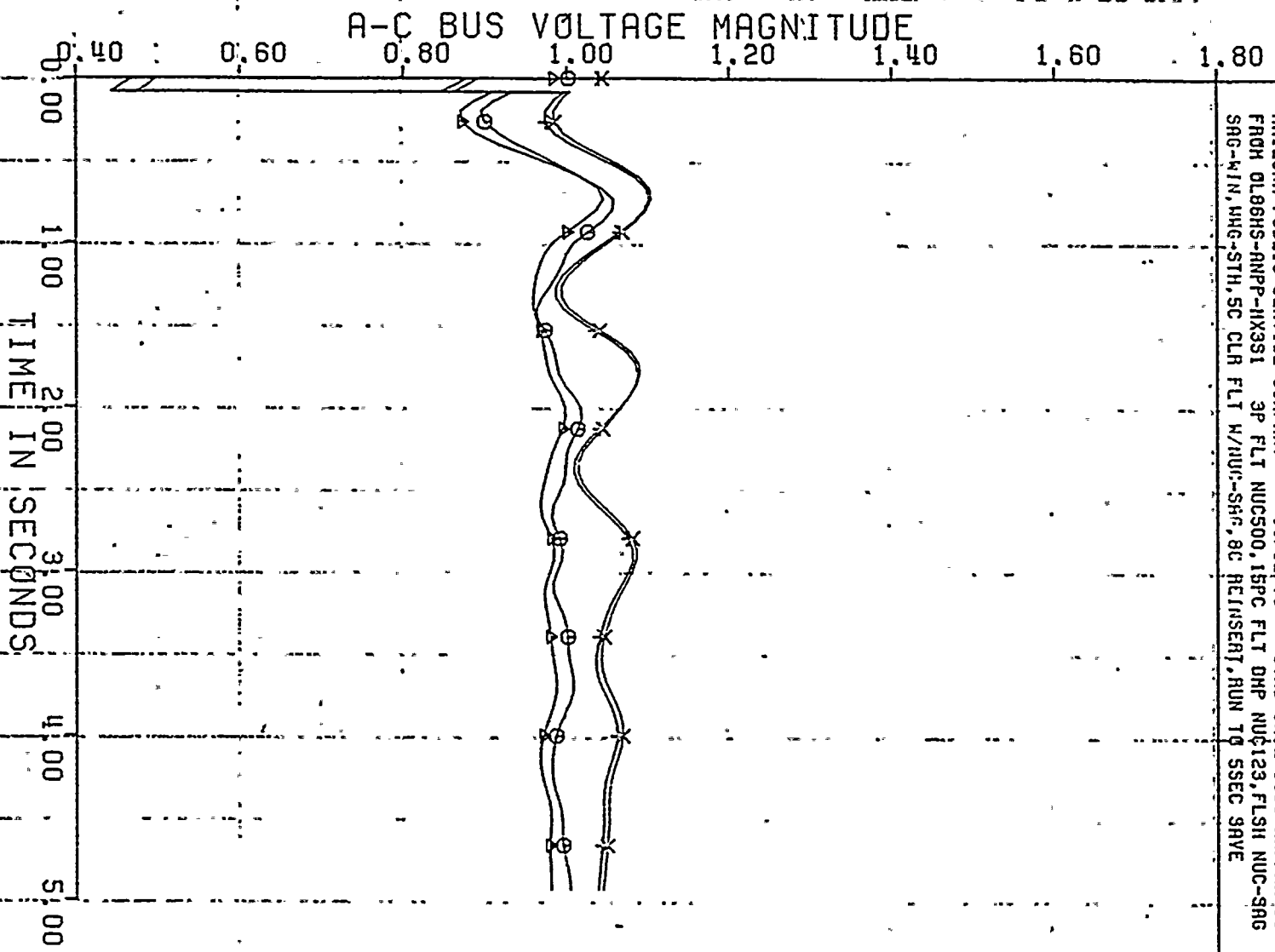
System Condition "A": "A permanent 3-phase fault on the switchyard 525 kv bus with subsequent loss of the critical 525 kv (PVNGS to Saguaro) line. The study of this disturbance incorporated effects of series capacitor gap-flashing."

12



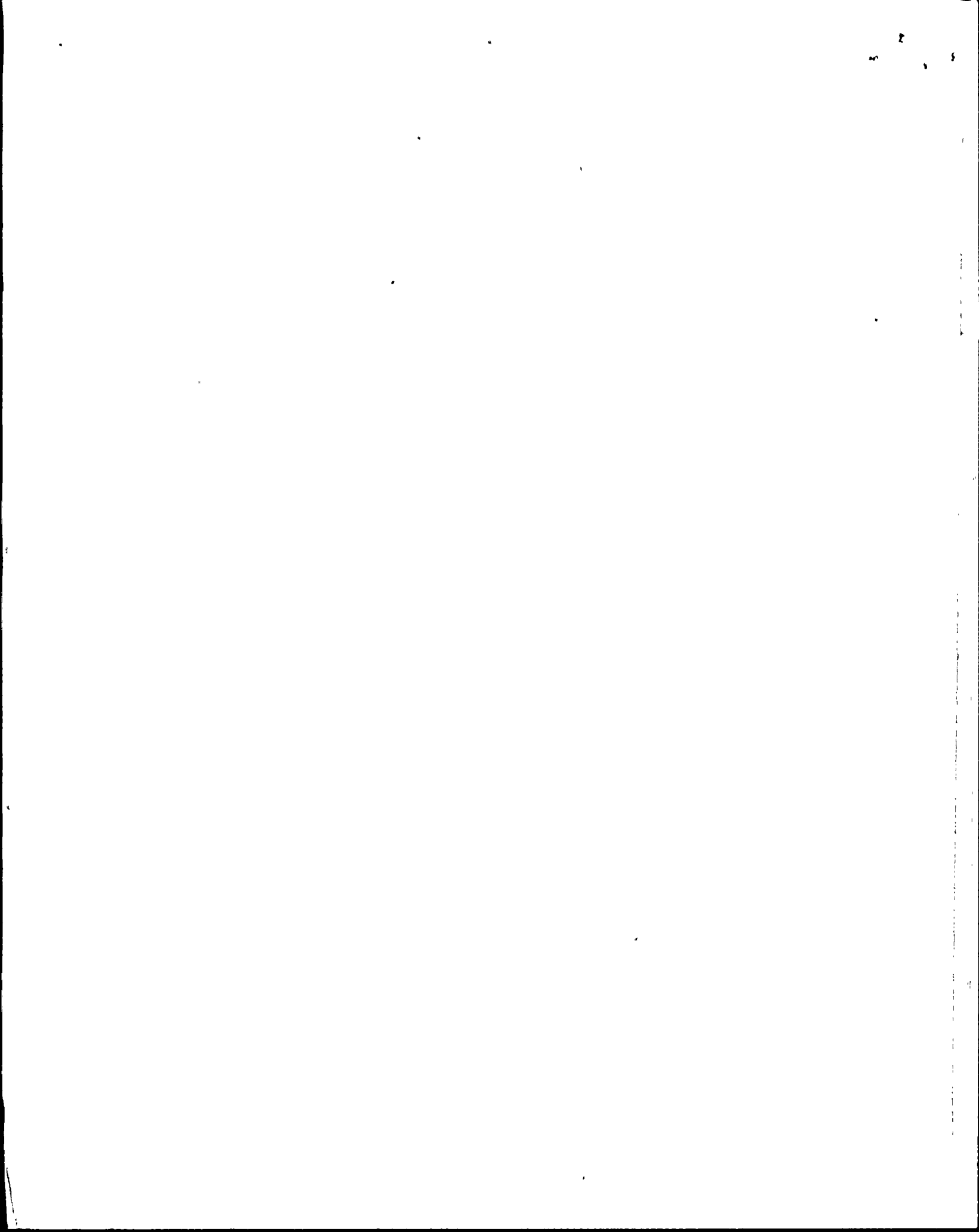
PLOT NO: 1
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX-S1
 FROM OL88HS-ANPP-HX3S1 3P FLT NUC500, 15PC FLT DHP NUC123, FL3H NUC-SRG
 SRG-MIN, MHC-STH, SC (CLN FLT H/NUC-SRG, 8C REINSERT, RUN TO SSEC SAVE

KYRNE	230.	■	X
CHDLR	230.	■	+
HRDY0	345.	■	△
HRB031R345.		■	○

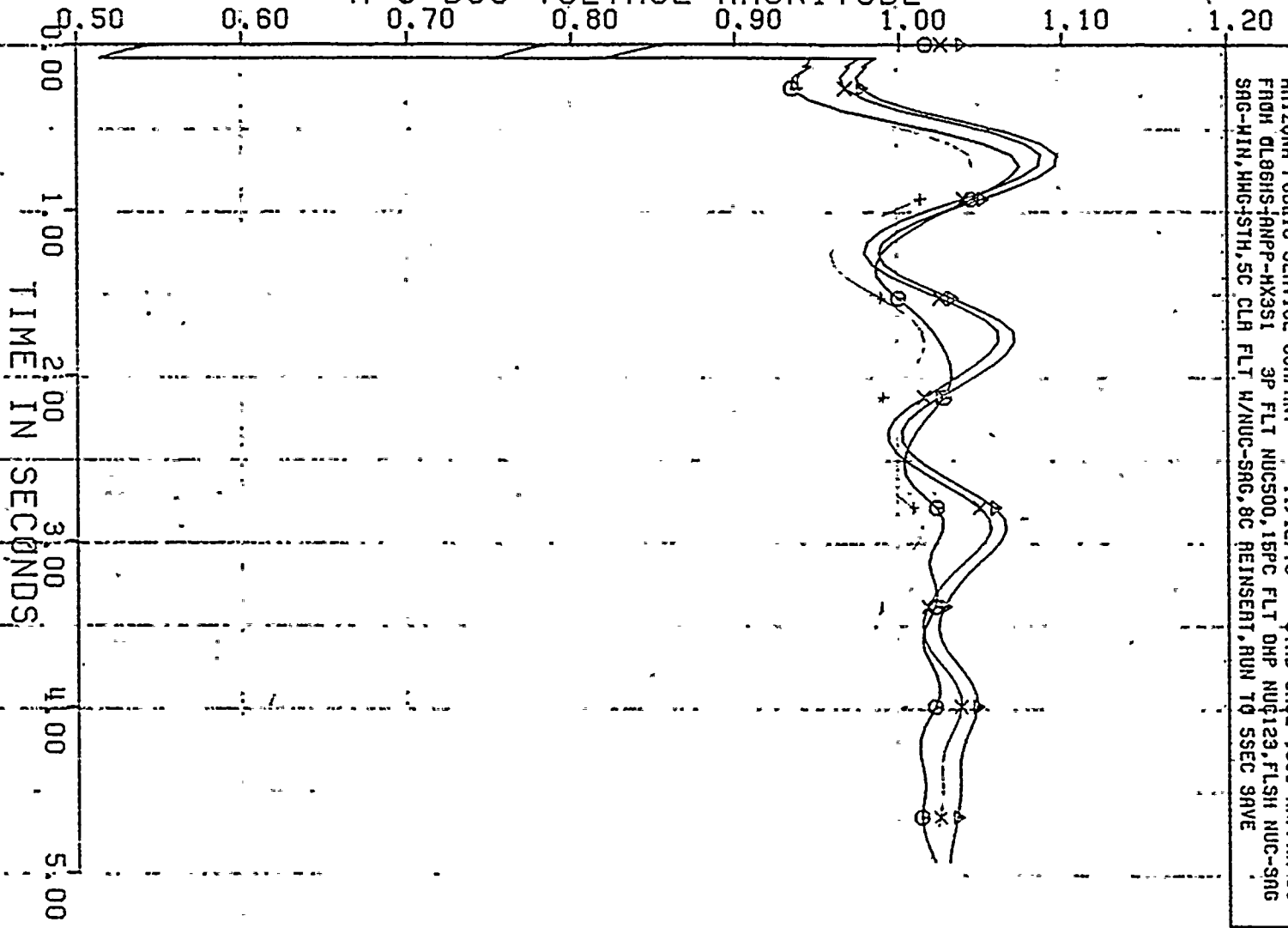


PLOT NO. 2
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPHX-S1
 FROM 0L86HS-ANPP-IX3SI 3P FLT NUC500, 1BPC FLT DHP NUC123, FLSH NUC-SAG
 SAG-MIN, MFG-STH, SC CLR FLT W/MUR-SHG, 8C REINSEPT, RUN TO SSEC 9AVE

NEHMN 115. = X
 RIGGRADU115. = +
 AGUAFR1R230. = A
 LIBERTY 230. = O

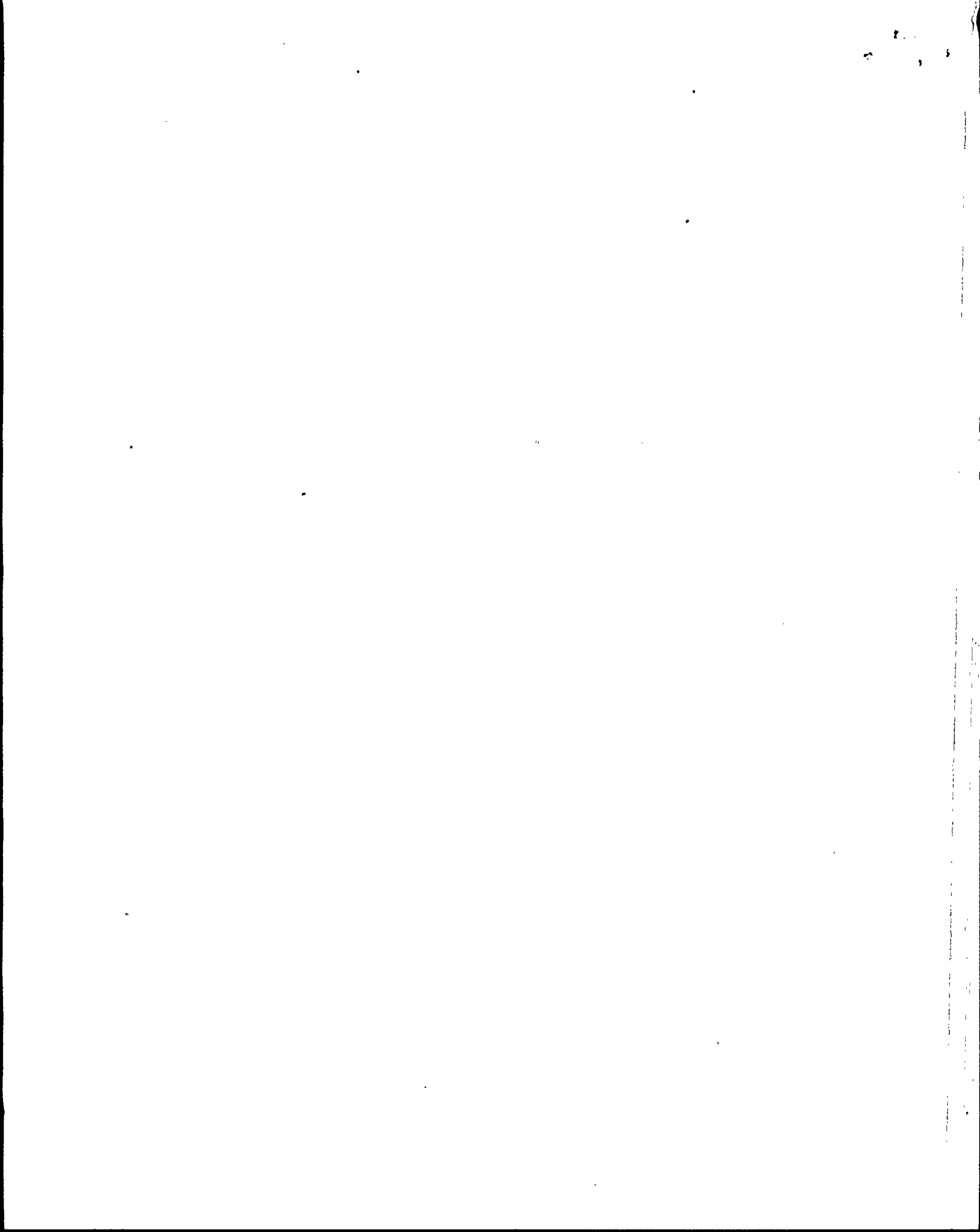


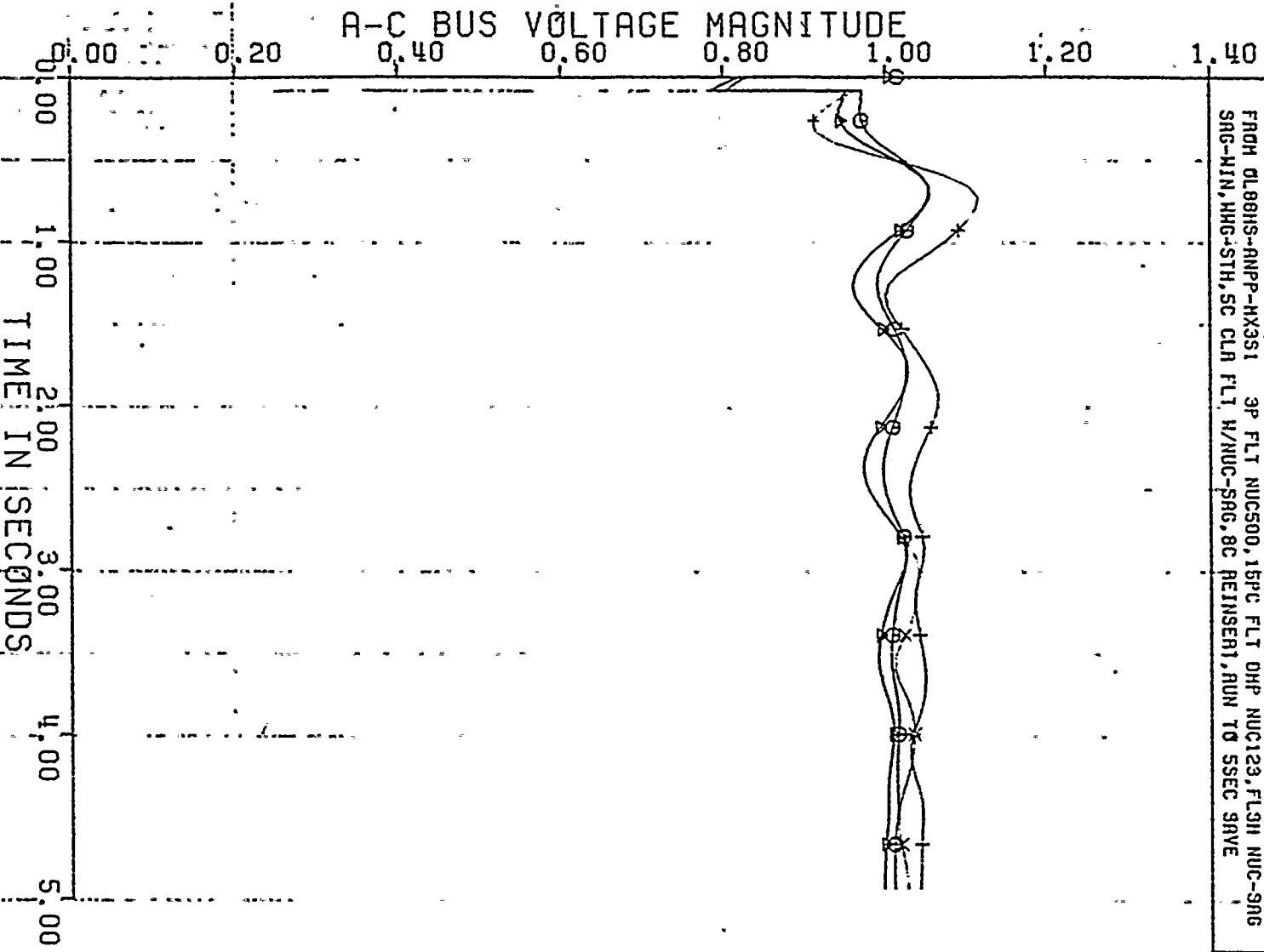
A-C BUS VOLTAGE MAGNITUDE



PLOT NO: 3
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 RANPHX-S1
 FROM DL86HS-RANPP-HX3S1 3P FLT NU0500, 1BPC FLT DHP NU0123, FLSH NUC-SNG
 SNG-MIN, NUC-1STH, 5C CLA FLT H/NUC-SNG, 8C REINSENT, RUN TO SSEC 9AVE

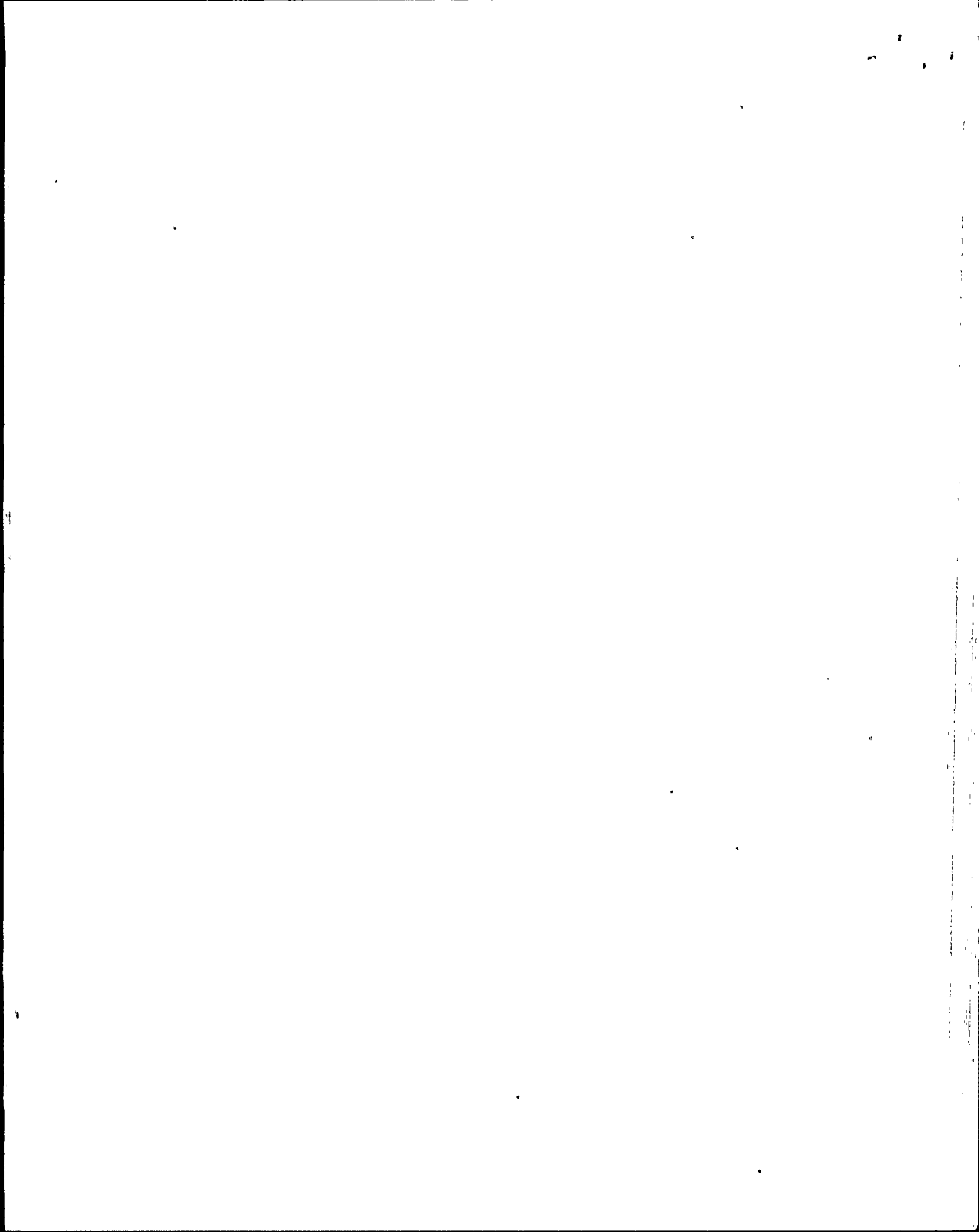
REEVES 1115.1 = X
 HCKINLE 345. = +
 HESTHES1115. = A
 SAGUR01115. = O



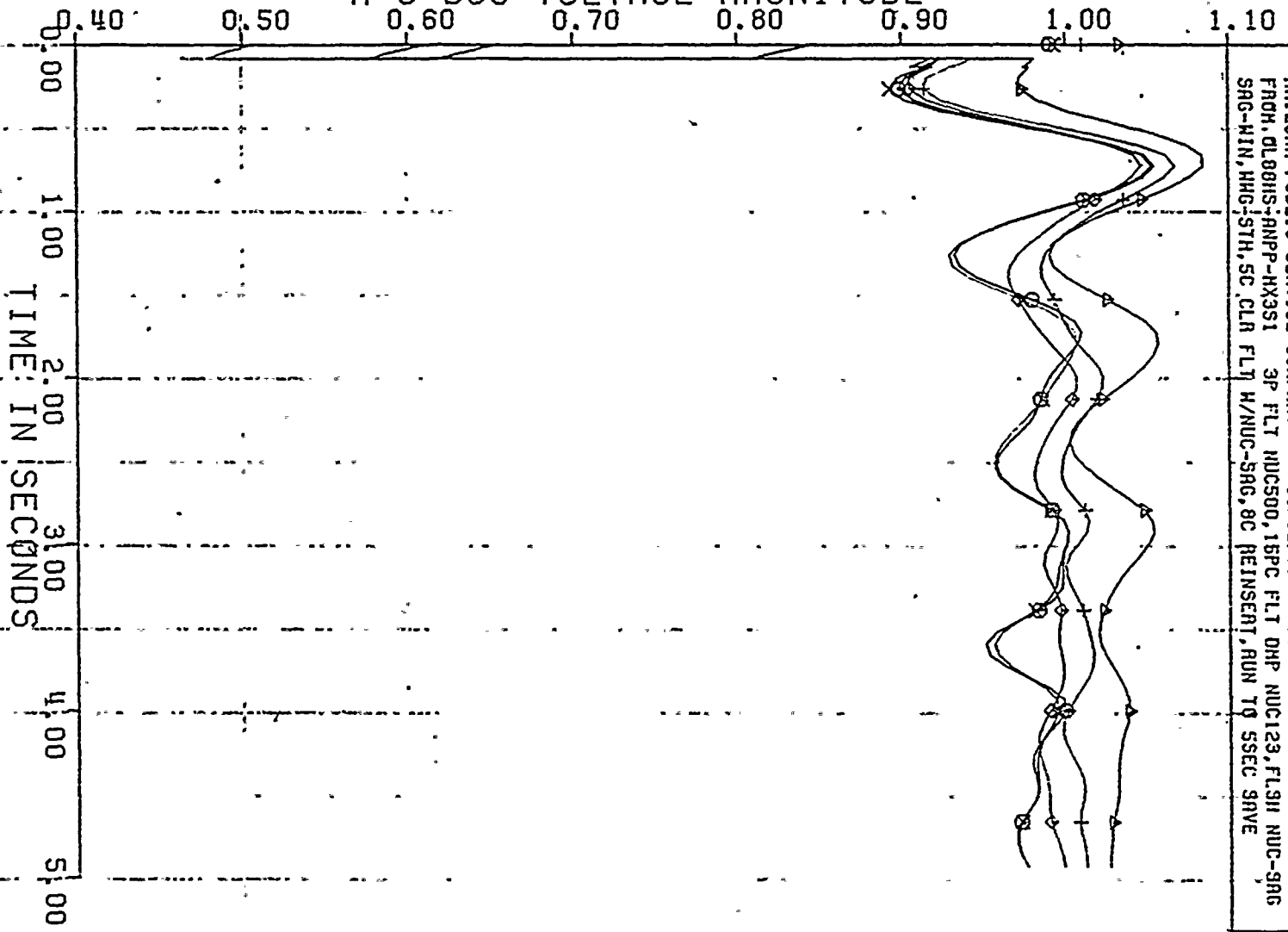


PLOT NO. 4
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX-SI
 FROM DL88HS-ANPP-HX31 3P FLT NUC500, 15PC FLT OHP NUC123, FL3H NUC-9NG
 SGC-MIN, HHC-STH, SC CLA FLT. H/NUC-SAG, 8C REINSERT, RUN TO SSEC 9AVE

APACHE 230. - X
 NUCLH 500. - +
 NORTON 345. - Δ
 FOURCON345. - O



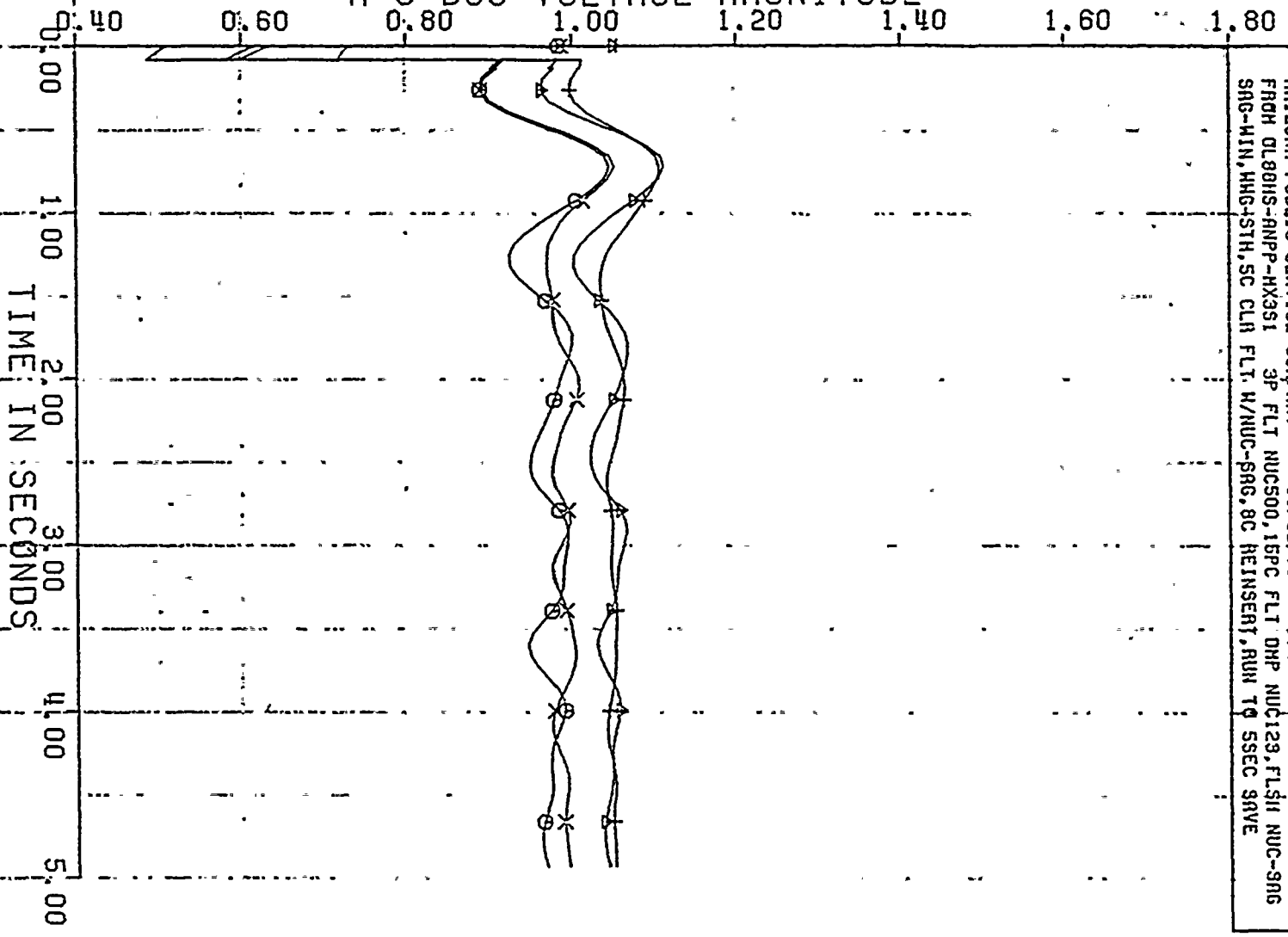
A-C BUS VOLTAGE MAGNITUDE



PLOT NO. 5
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANP/PH-S1
 FROM: OLB08HS-ANPP-HX3S1 3P FLT NUC500, 1BPC FLT DHP NUC123, FL3H NUC-3R6
 SRG-MIN, HMG-STH, SC CLR FLT H/NUC-5R6, 8C REINSENT, RUN TO SSEC 3RVE

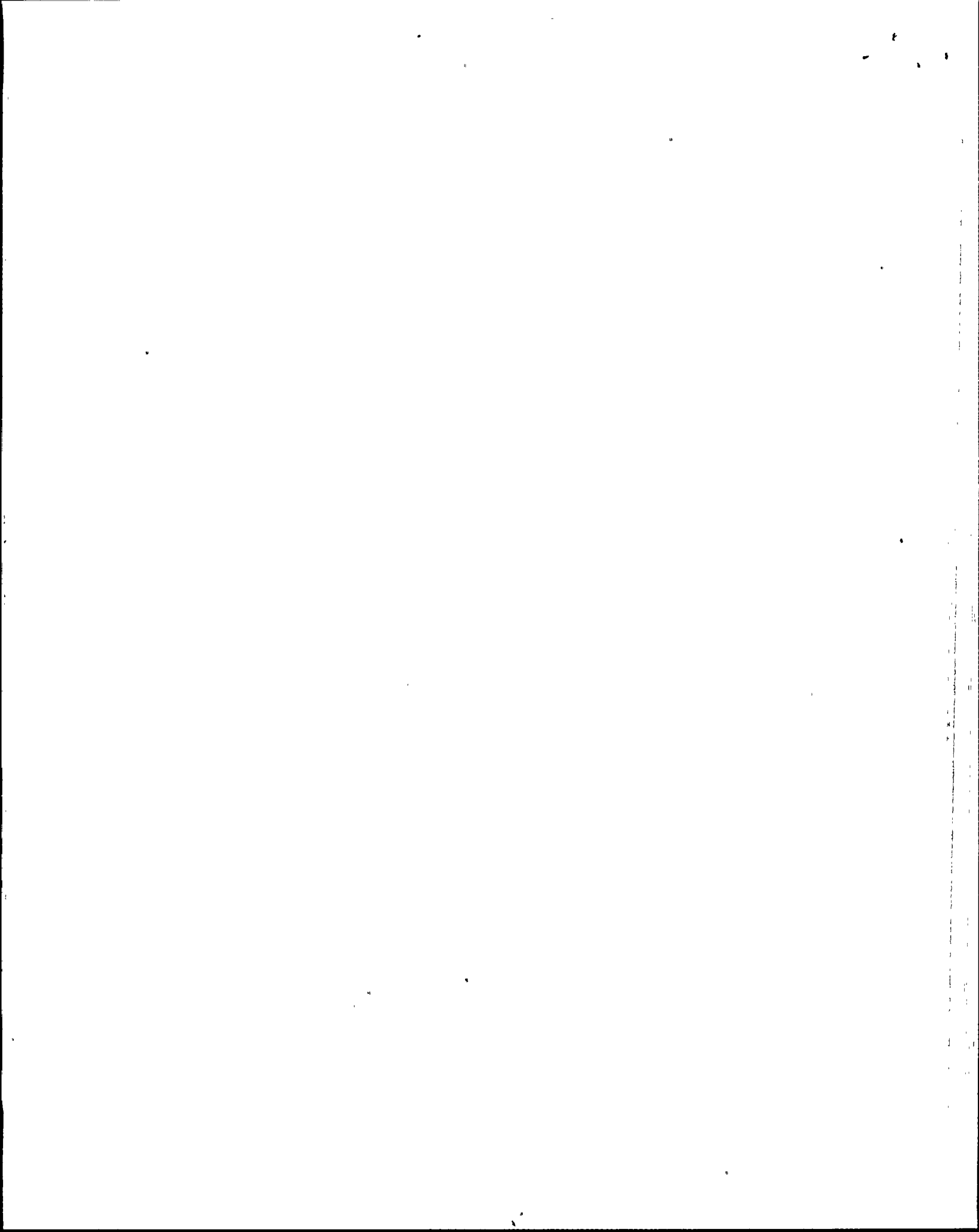
COOLIDGE115.	◆
SOUTH 138.	×
PIPKRPS 230.	+
GJD 115.	△
IRVINGTN 138.	⊙

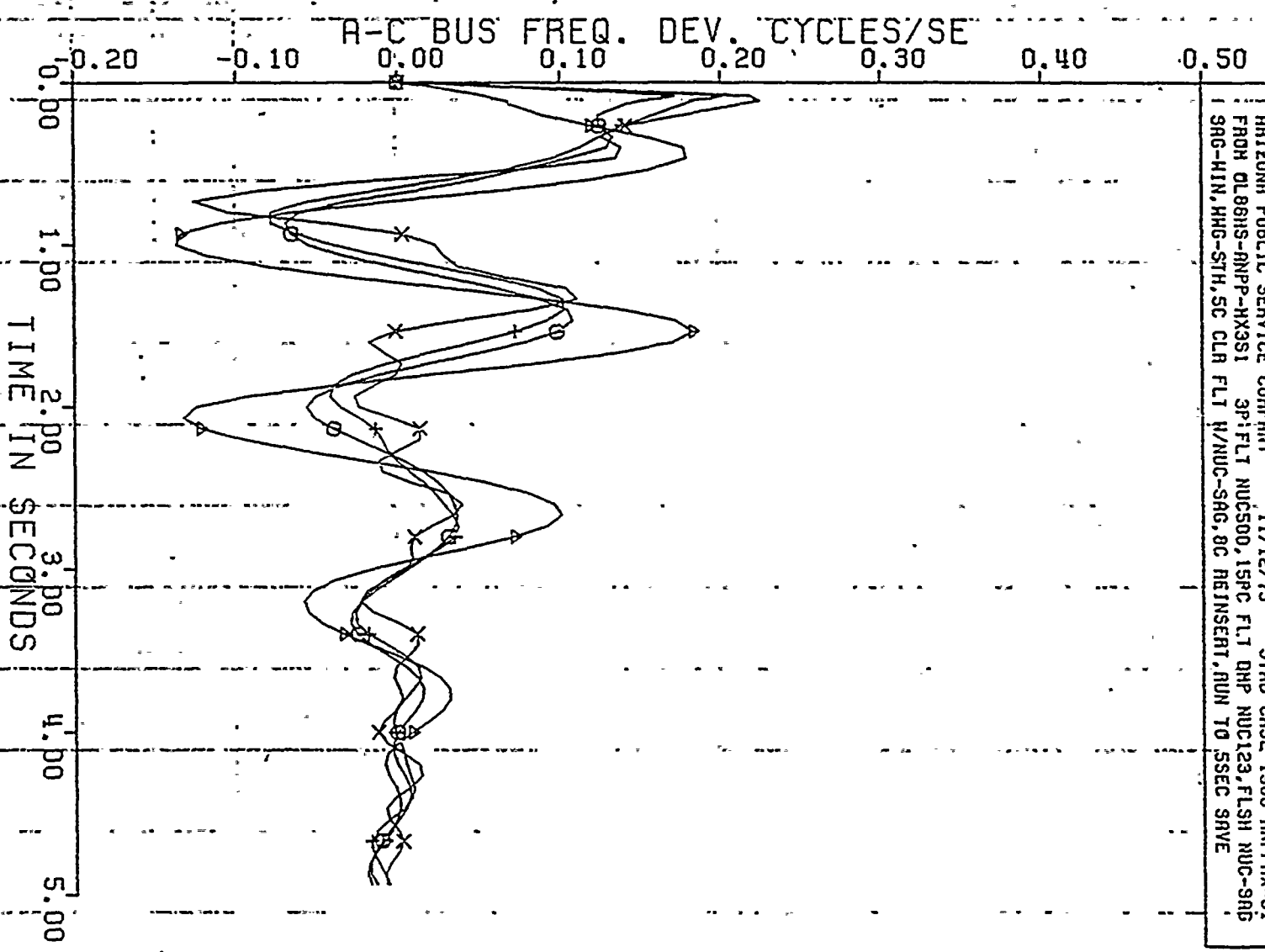
A-C BUS VOLTAGE MAGNITUDE



PLOT NO. 6
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1908 ANPRHX-51
 FROM OL80HS-ANP-HX31 3P FLT NUC500, 15PC FLT DHP NUC129, FL5H NUC-9NG
 SAG-MIN, HMG-1STH, SC CLR FLT, H/NUC-5R6, 8C REINSERT, RUN TO 5SEC 9AVE

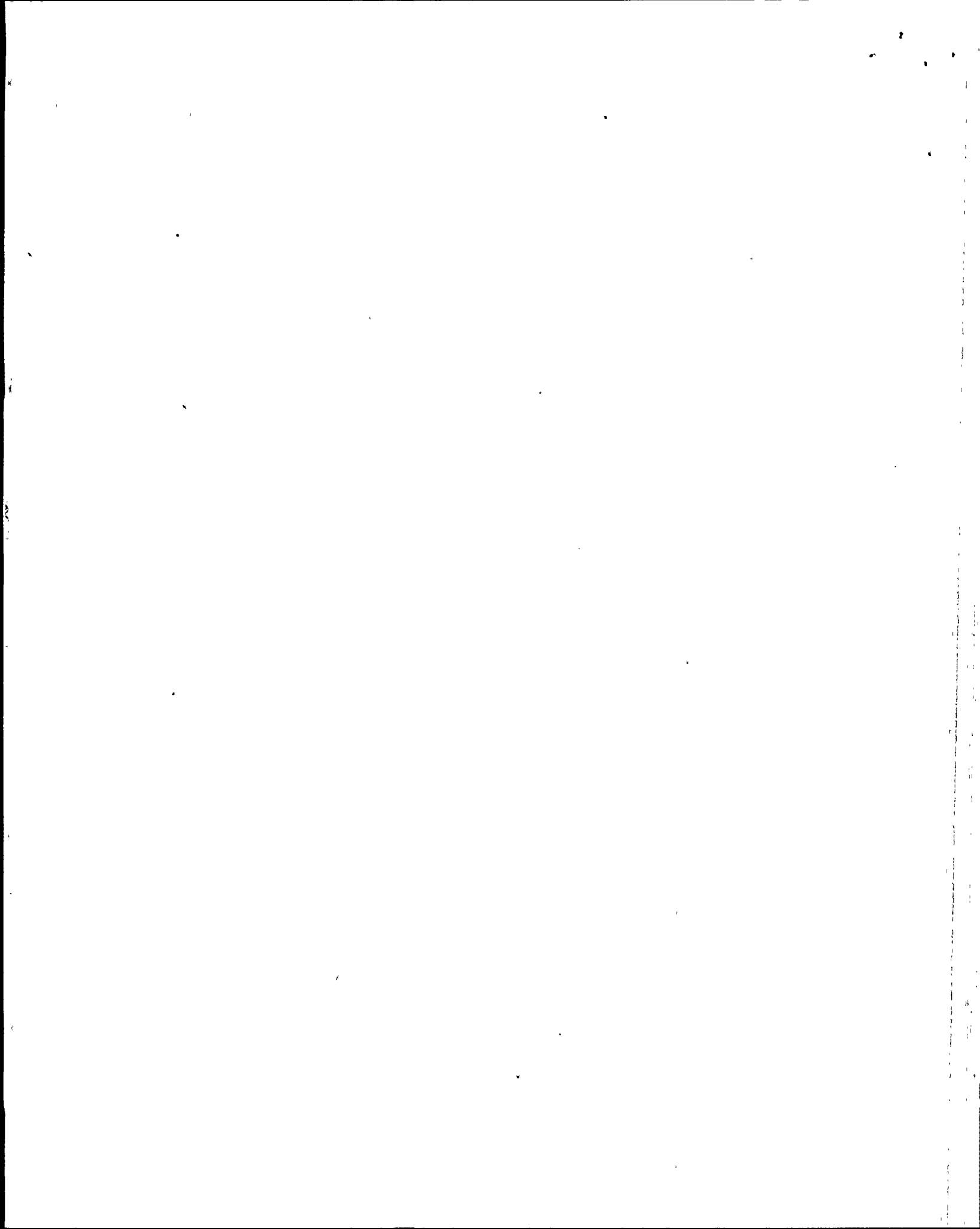
OCOTILLO230. X
 HOENKOP1500. +
 HINCHSTAS500. A
 VAIL 198. O



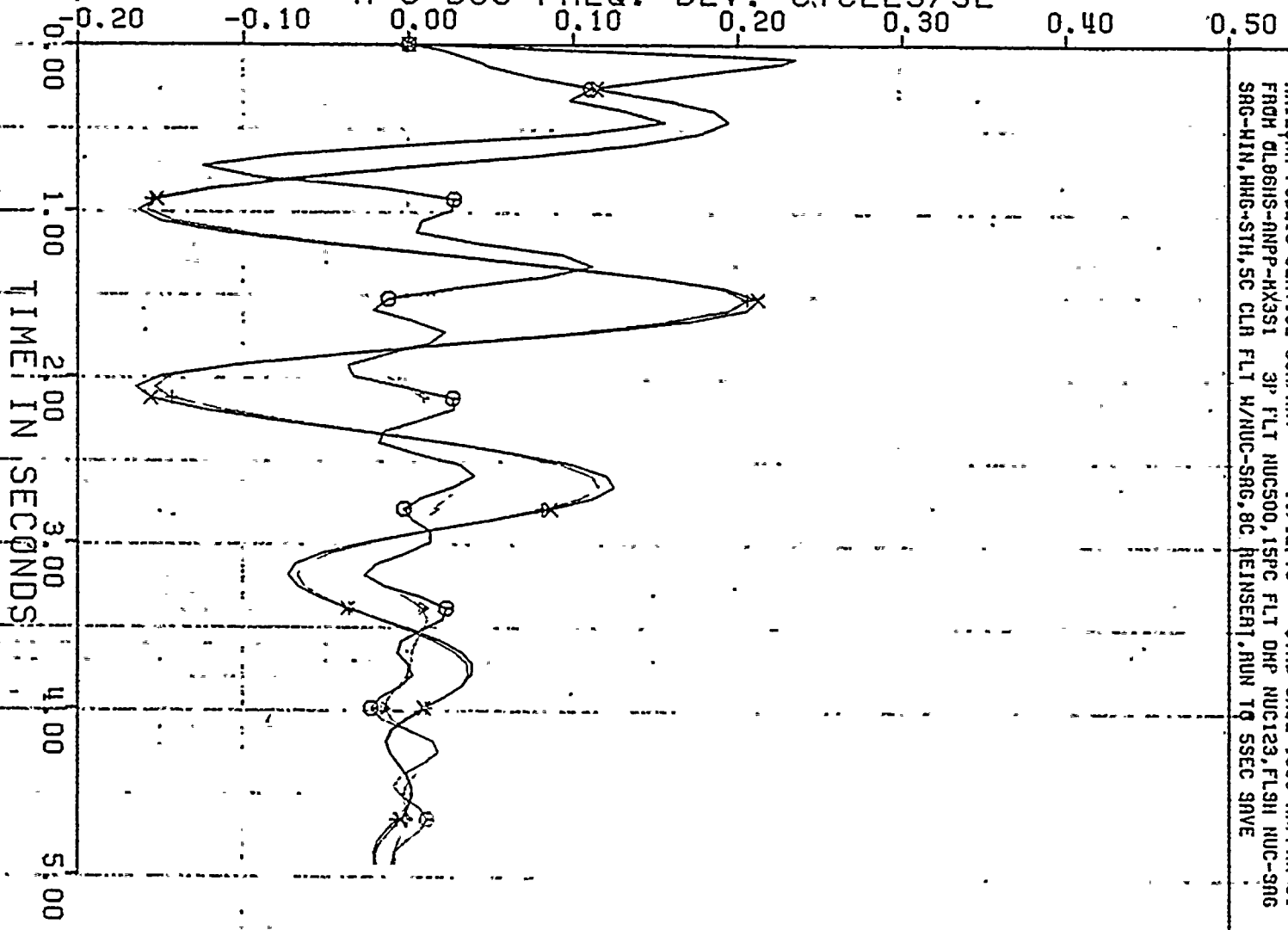


PLOT NO. 7
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX-S1
 FROM 0188HS-ANPP-NX3S1 3P:FLT NUC500,15PC FLT DNP NUC123,FLSH NUC-9ND
 1 9RG-MIN,HMG-STH,5C CLR FLT N/NUC-SAG,8C REINSERT, RUN TO 5SEC SAVE

KYRENE 230. X
 CHOLLA 230. +
 ARROYO 315. Δ
 ANDROS1R345. O

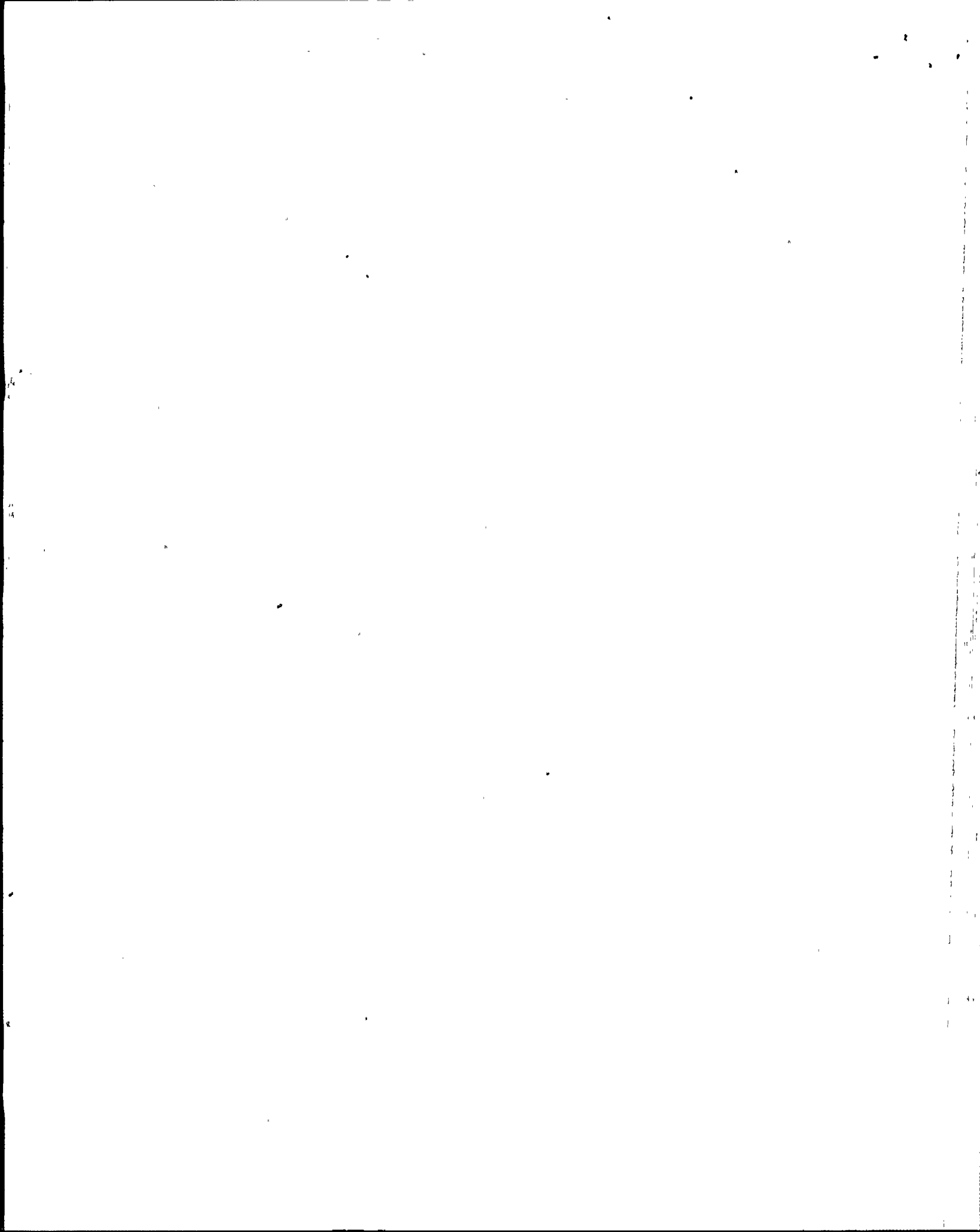


A-C BUS FREQ. DEV. CYCLES/SE

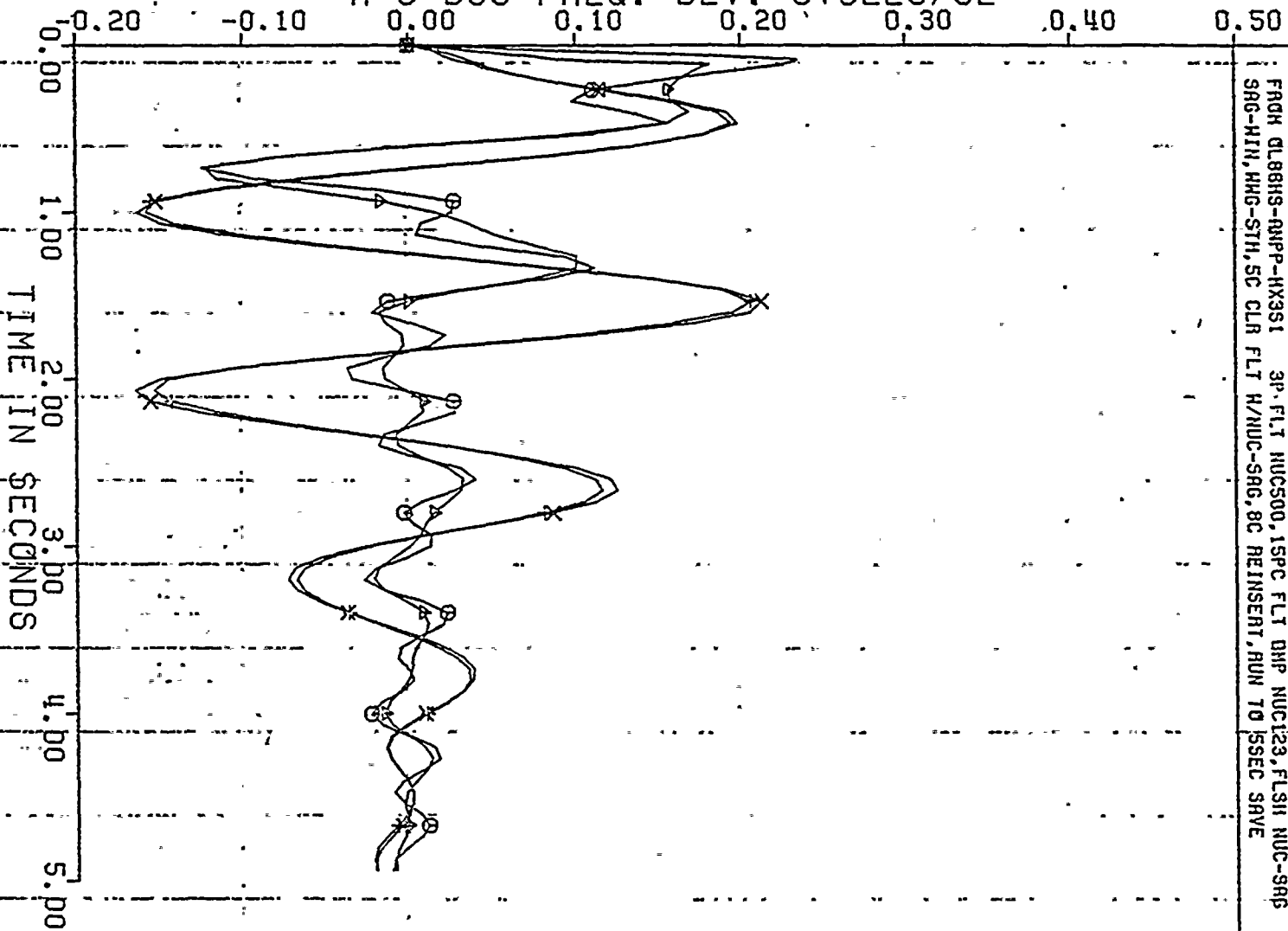


PLOT NO. 8
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CRSE 1986 ANPPHX-S1
 FROM DLB6HS-ANPP-HX3S1 3P FLT NUC500, 15PC FLT OHP NUC123, FL9H NUC-3NG
 SRG-HIN, HMG-STH, SC CLH FLT W/NUC-SRG, 8C REINSERT, RUN TO SSEC 9AVE

NEHNN 115.1 x
 RIGGRAND115. +
 AGUNFRIN290. Δ
 LIBERTY 290. ⊙



A-C BUS FREQ. DEV. CYCLES/SE

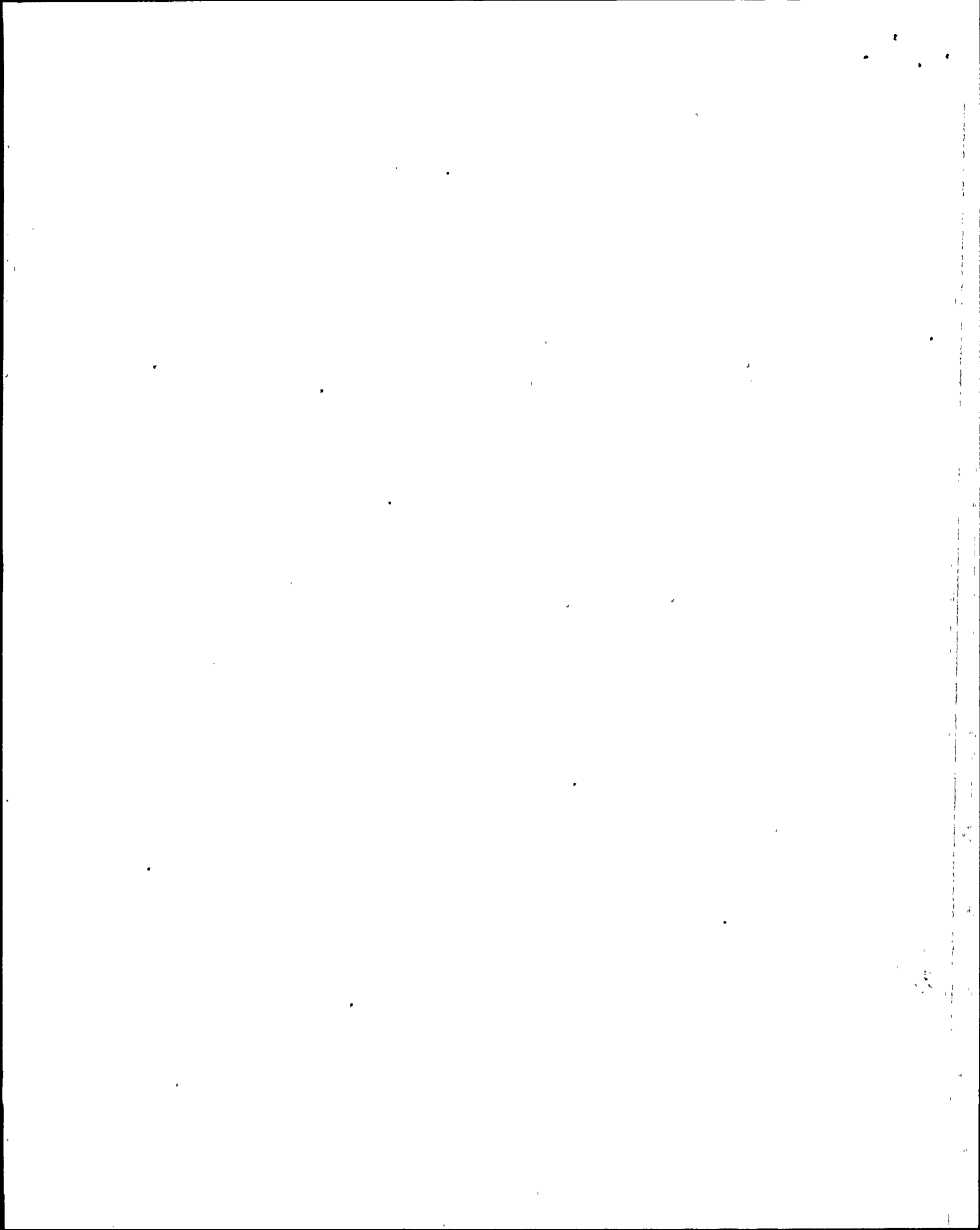


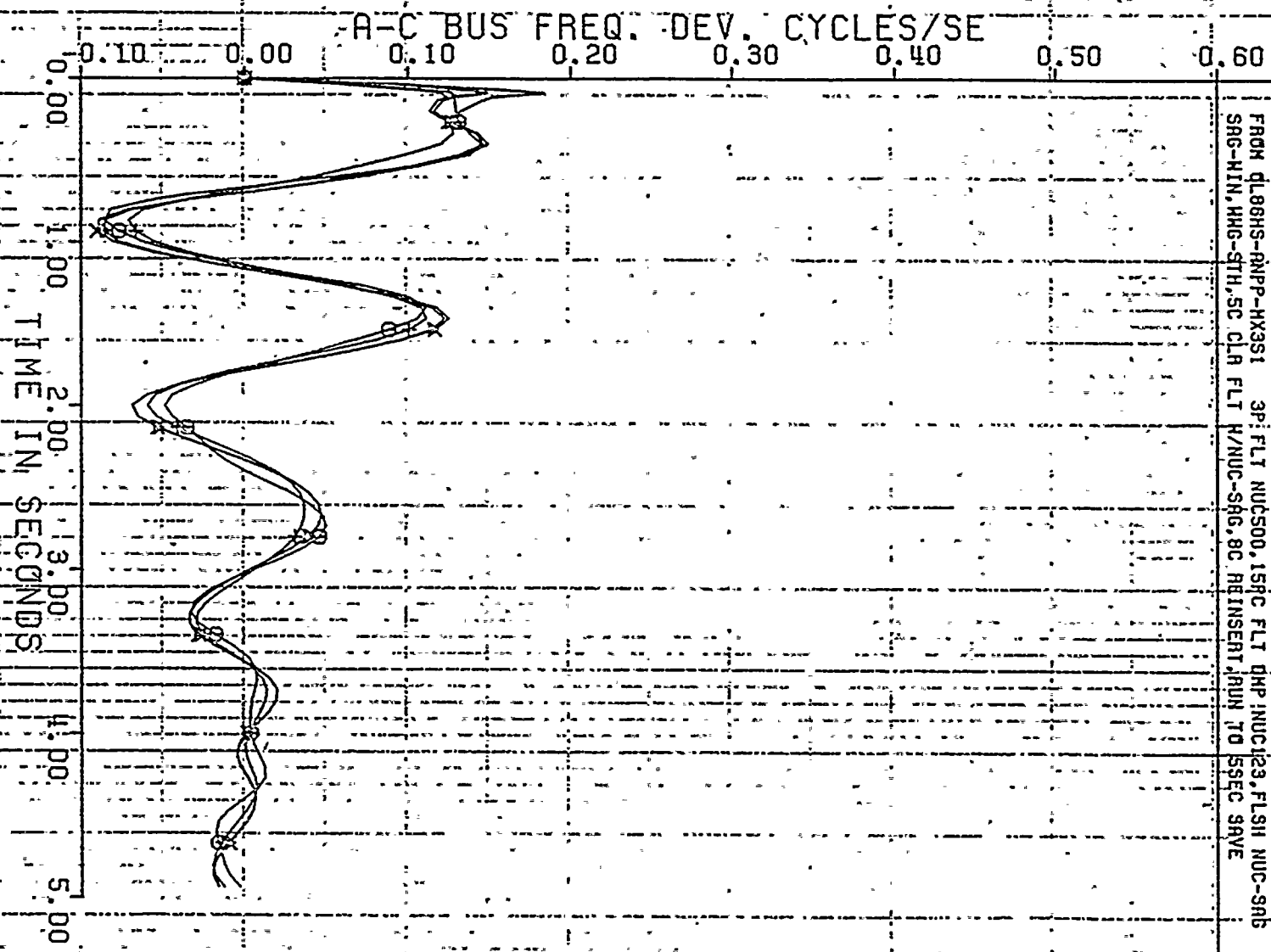
PLOT NO. 8

ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPIX-S1
 FROM GLOBBS-AMPP-RX331 3P. FLT NUCC500, 15PC FLT DNP NUCL23, FLSH NUC-SRP
 SRG-MIN, MGC-STH, 5C CLR FLT H/NUC-SRG, 8C REINSERT, RUN TO 15SEC SAVE

NEHHH - 115.
 RIGGRND115.
 RGURFRI230.
 LIBERTY 230.

X
 +
 A
 O

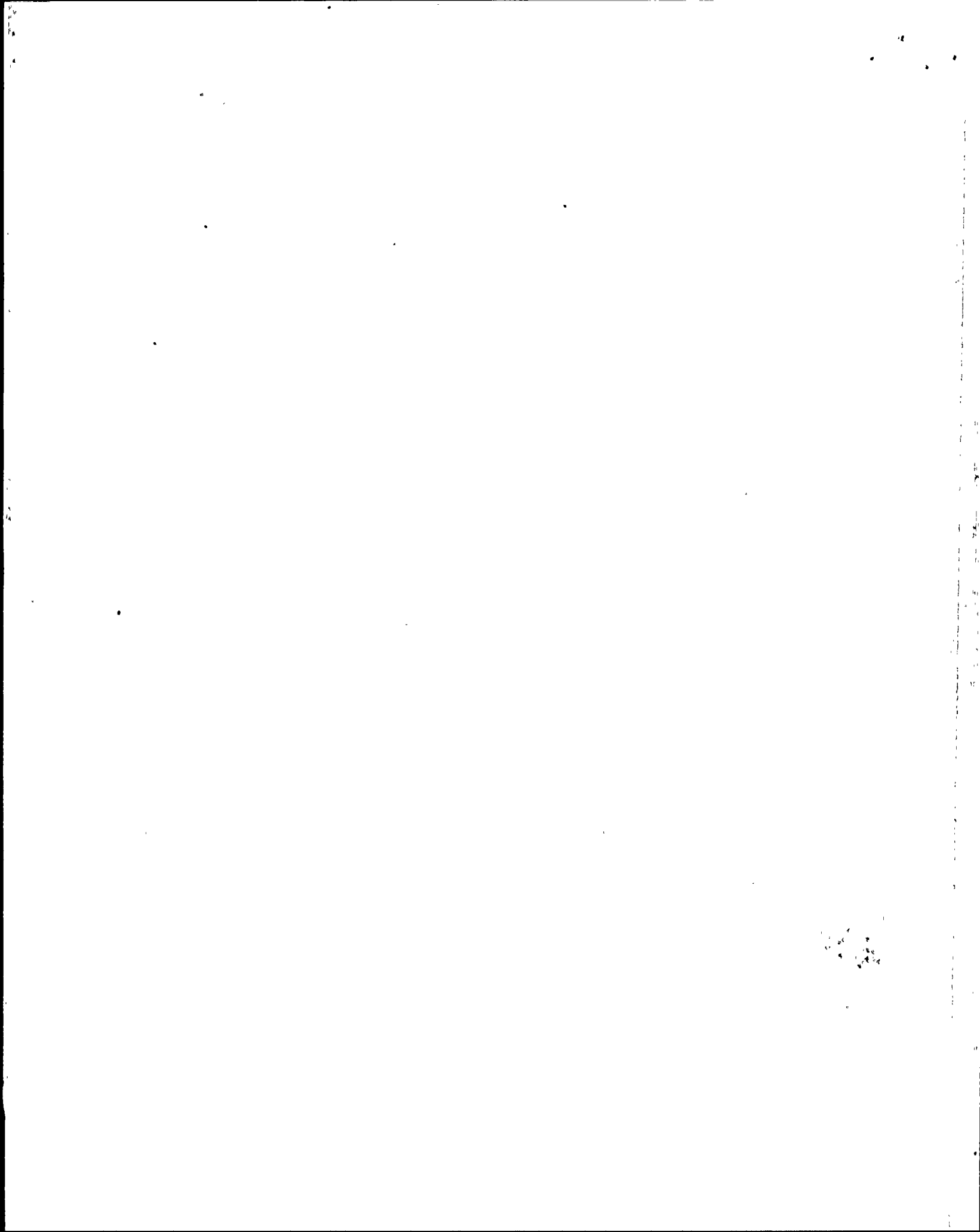


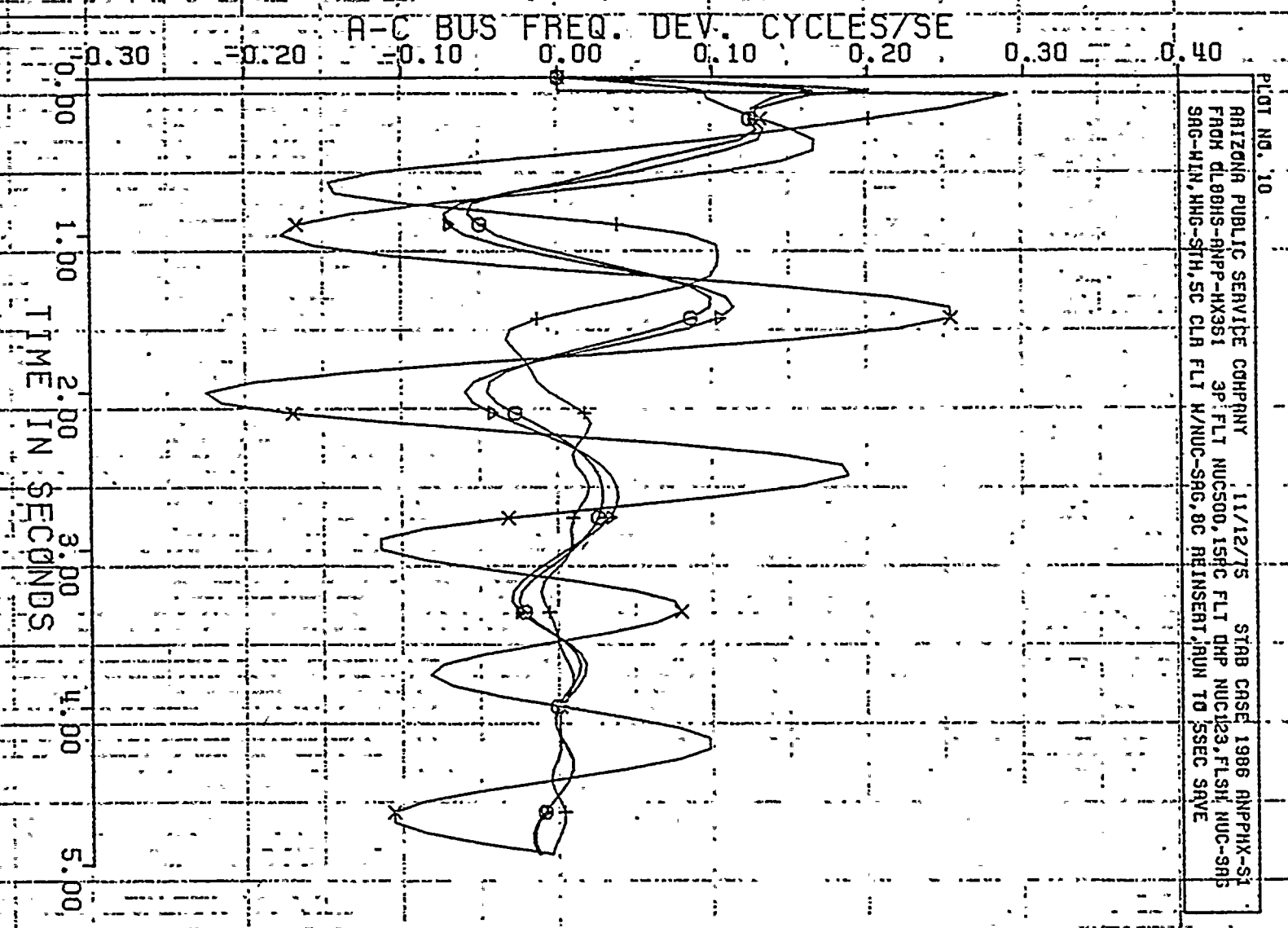


Plot No. 9
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX-S1
 FROM DLBGS-RNPP-RX351 3P: FLT NUC500, 15RC FLT DHP INUC129, FLSH NUC-SNB
 SAG-MIN, WAG-STH, SC CLR FLT R/NUC-SAG, 8C REINSERT, RUN TO SSEC 9AVE

REVES 1115.
 HCKINLE 945.
 HESTINES 0115.
 SQUARD 1115.

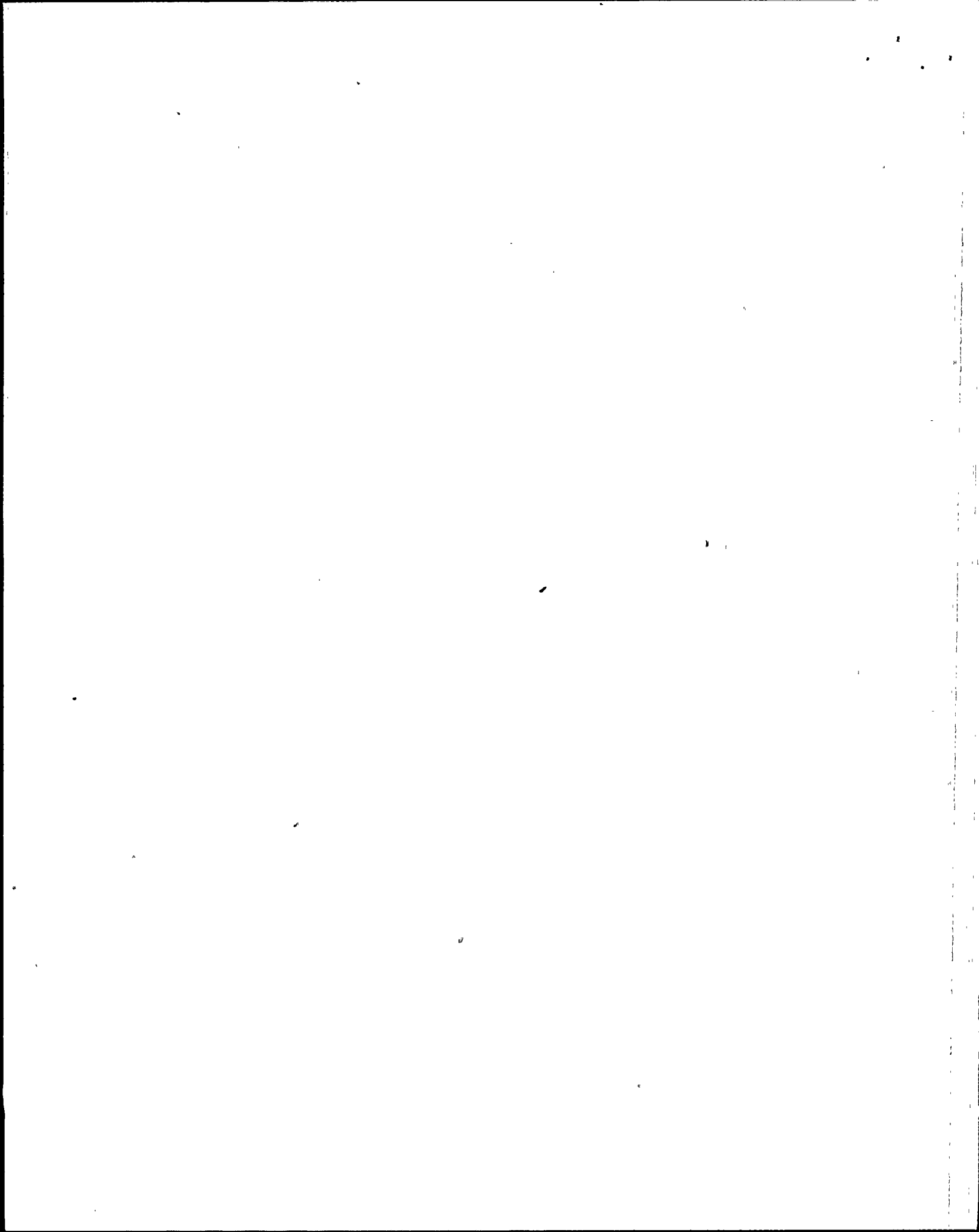
- X
 - +
 - Δ
 - ○

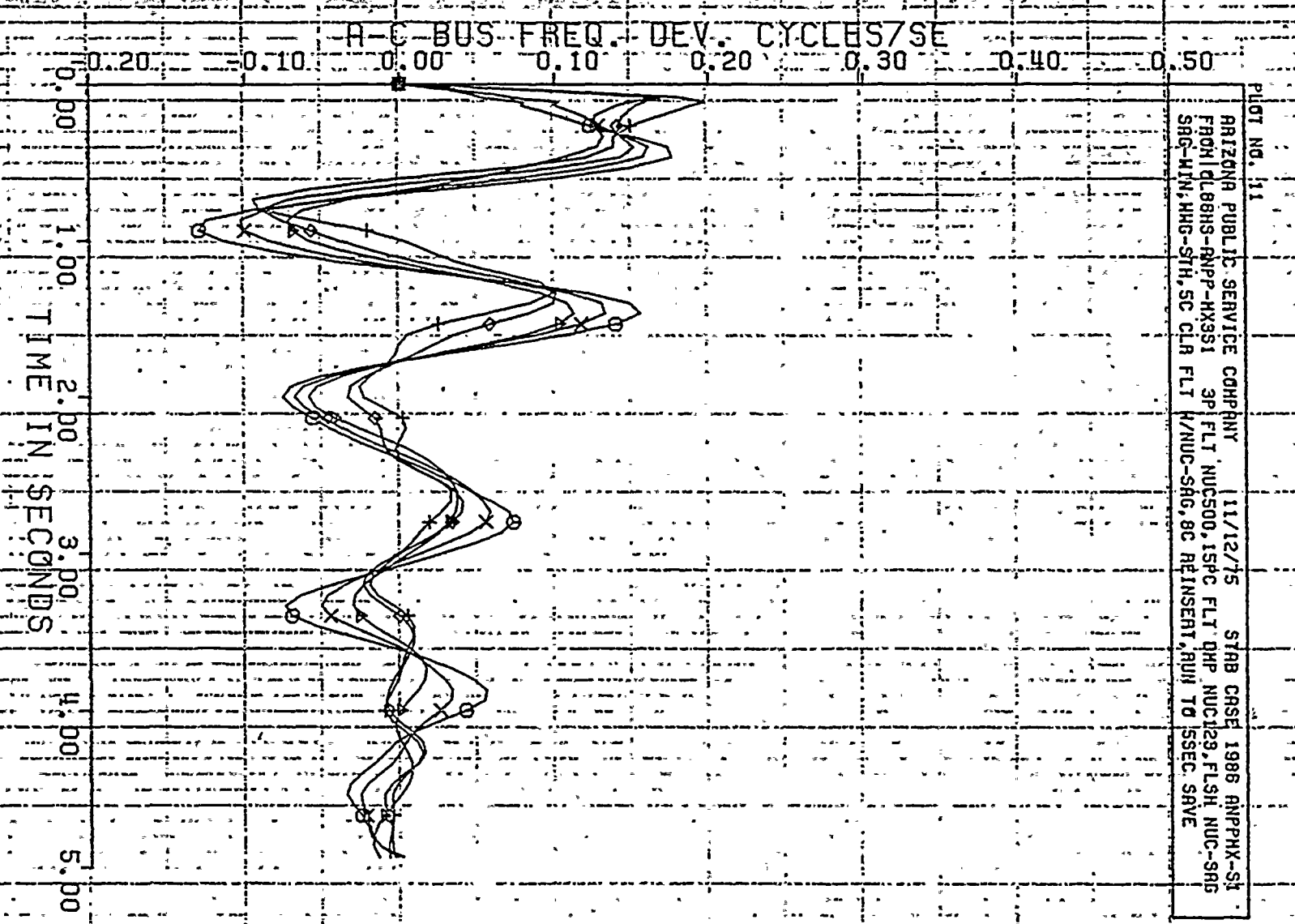




PLOT NO. 10
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX-S1
 FROM DL08HS-ANPP-HX361 3P FLT NU0500, 159C FLT DNP NU0123, FLSH NU0-985
 98G-41N, 98G-5TH, 5C CLR FLT W/NU0-986, 8C REINSERT, RUN TO SSEC 9AVE

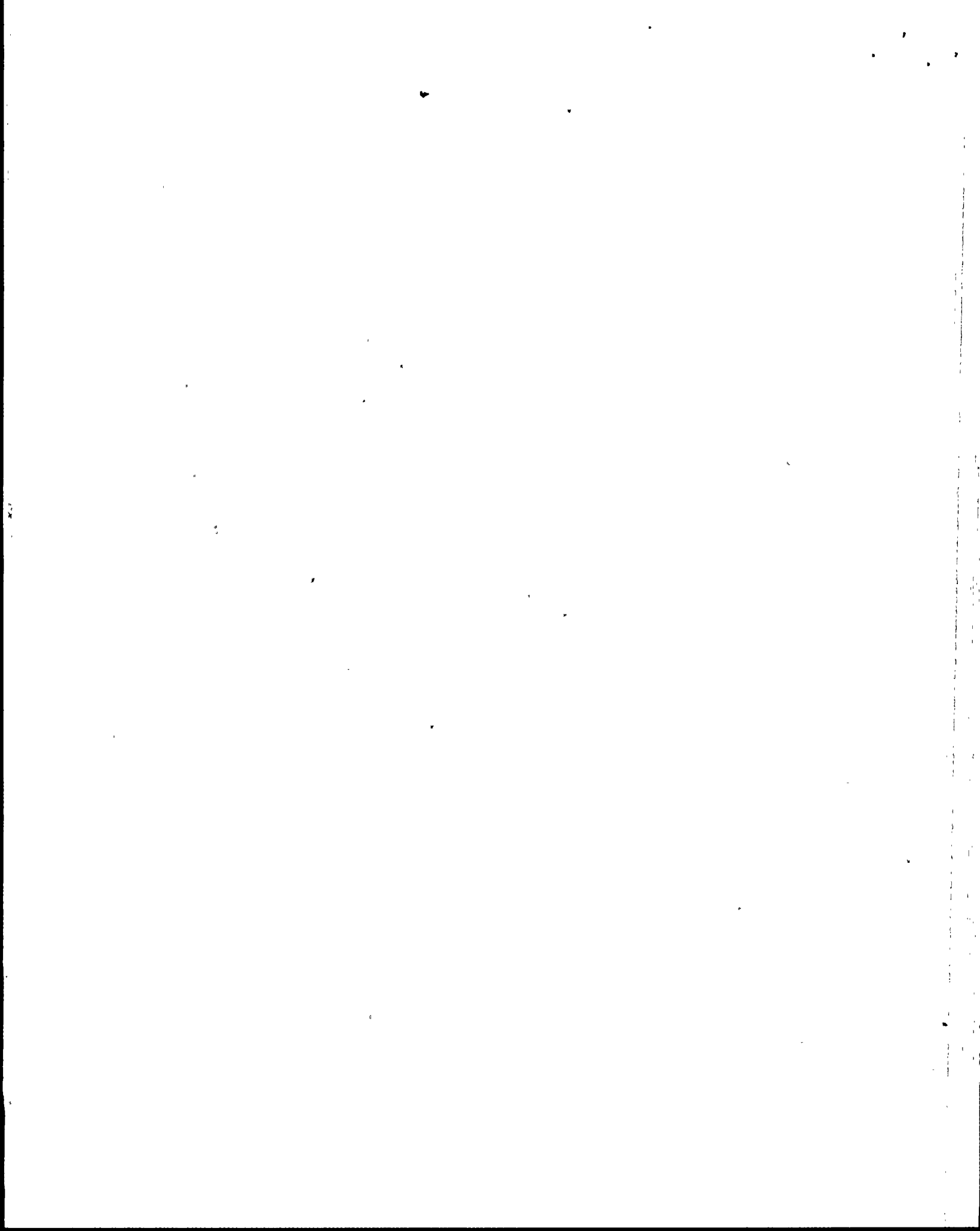
APACHE	230.	X
NUCLR	500.	+
NORTON	345.	A
FOURCORNS	345.	O

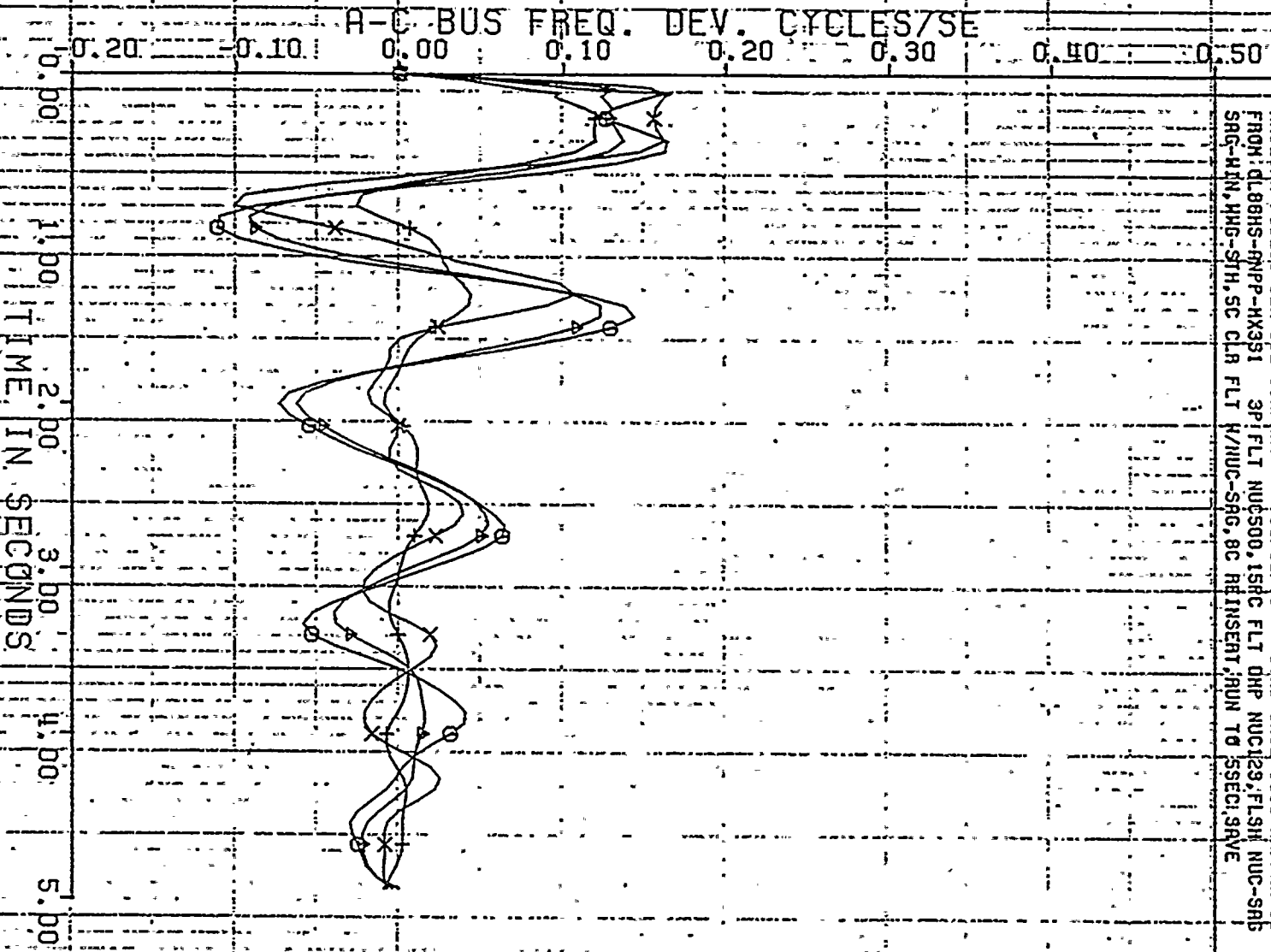




PILOT NO. 11
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX-S1
 FROM DL8893-RMP-HX351 3P FLT NUC500, ISPC FLT QRP NUC129, FLSH NUC-SRS
 SBC-MIN, NUC-SH, SC CLR FLT H/NUC-SAG, 8C RETINSEPT, RUN TO SSEC SAVE

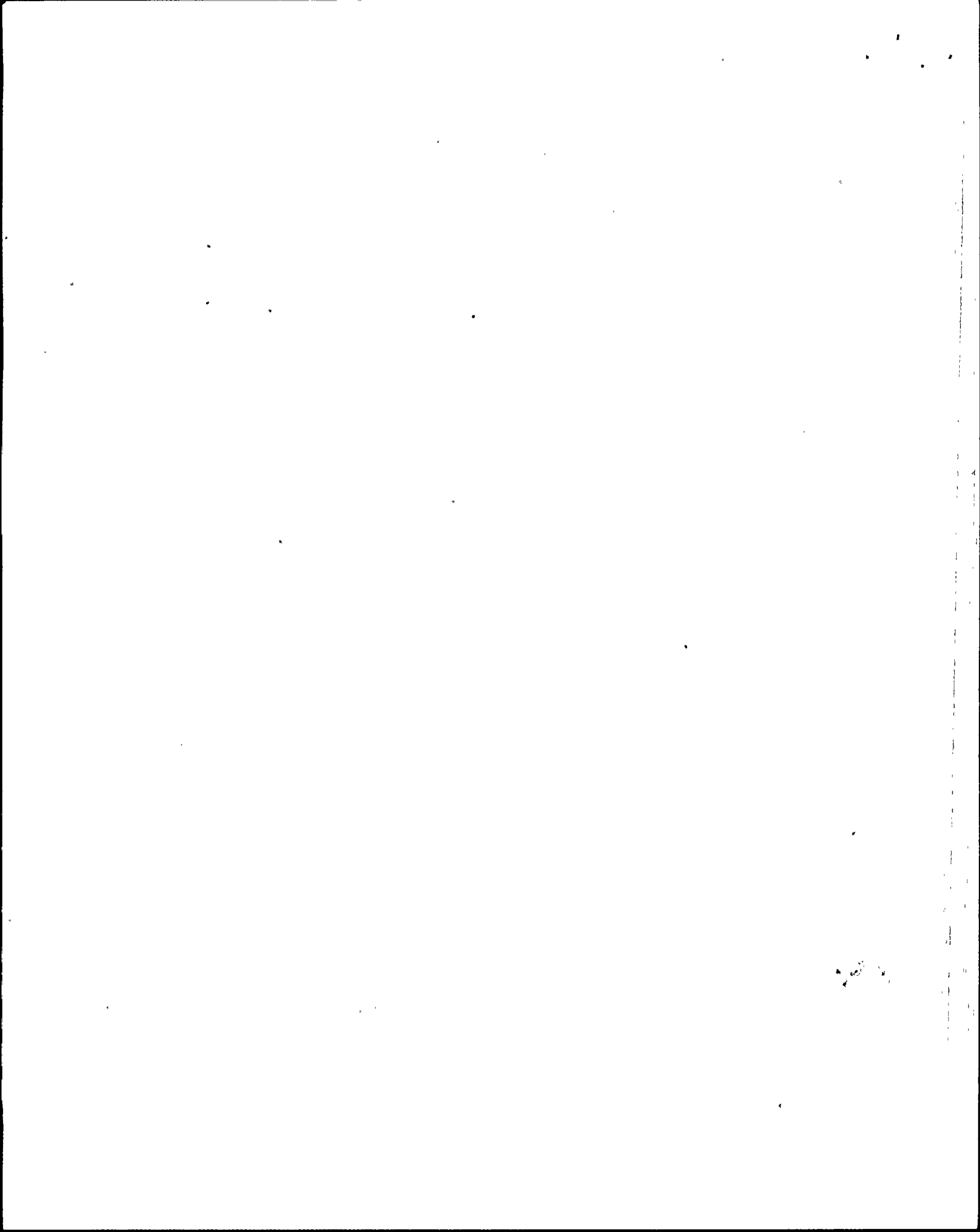
COLLIDEL15.
 SOUTH 139.
 PNP/RMP 230.
 GJG 115.
 IRVINGTN 139.
 ◆ X
 * *
 + +
 * *
 △ △
 ○ ○



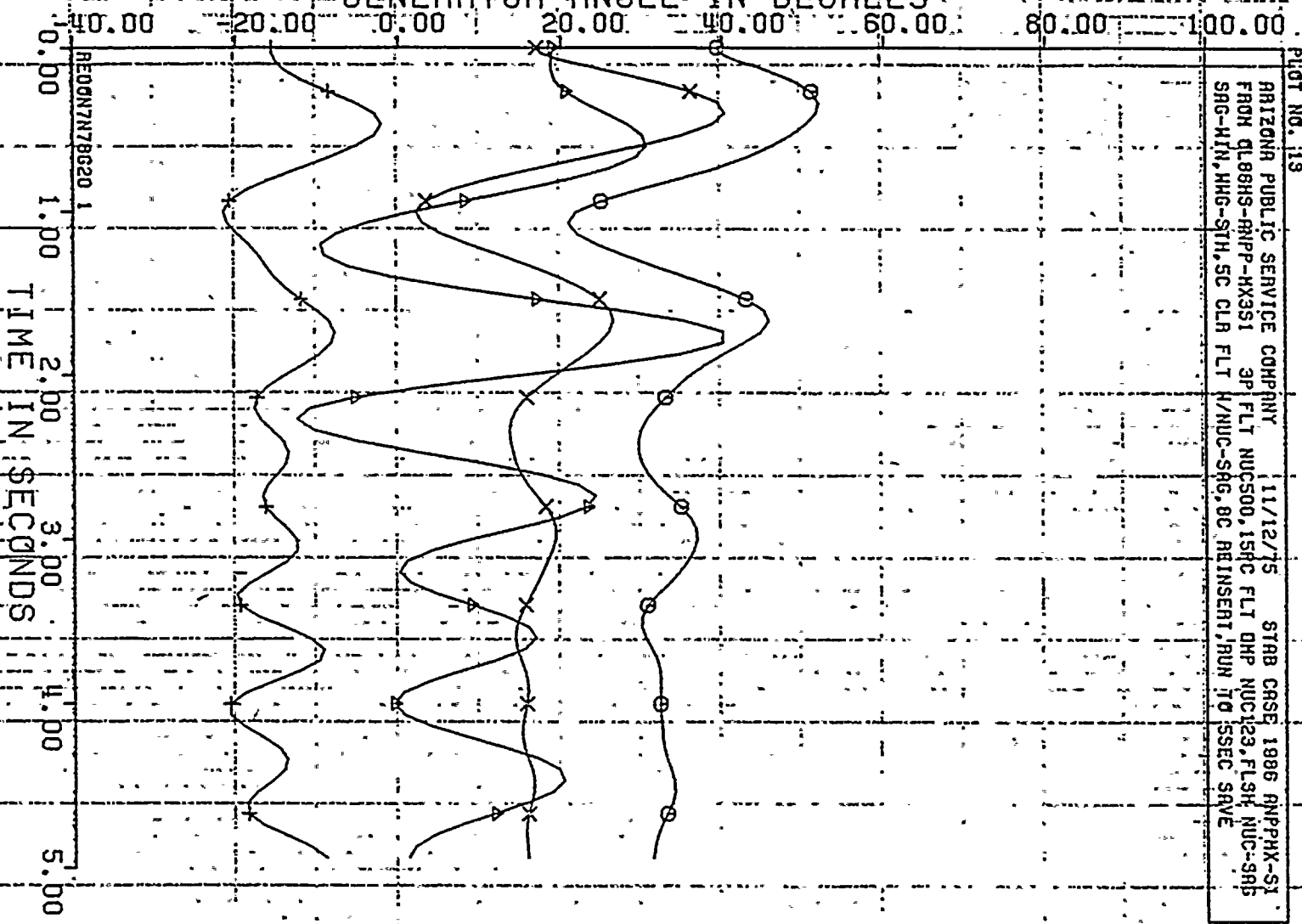


PILOT NO: 12
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX-S1
 FROM: DLBBS-RNP-HX31 3P/FLT NUC500, 15FC FLT DNP NUC429, FLSH NUC-SAB
 SRC-HAN, HMG-SIH, SC CLR FLT H/NUC-SAG, 8C REINSENT, RUN TO 5SECI, 9AVE

ODOTILL0230, - X
 HOENKOR1500, - +
 HINCHSTR500, - +
 VAIL 139, - O



GENERATOR ANGLE IN DEGREES

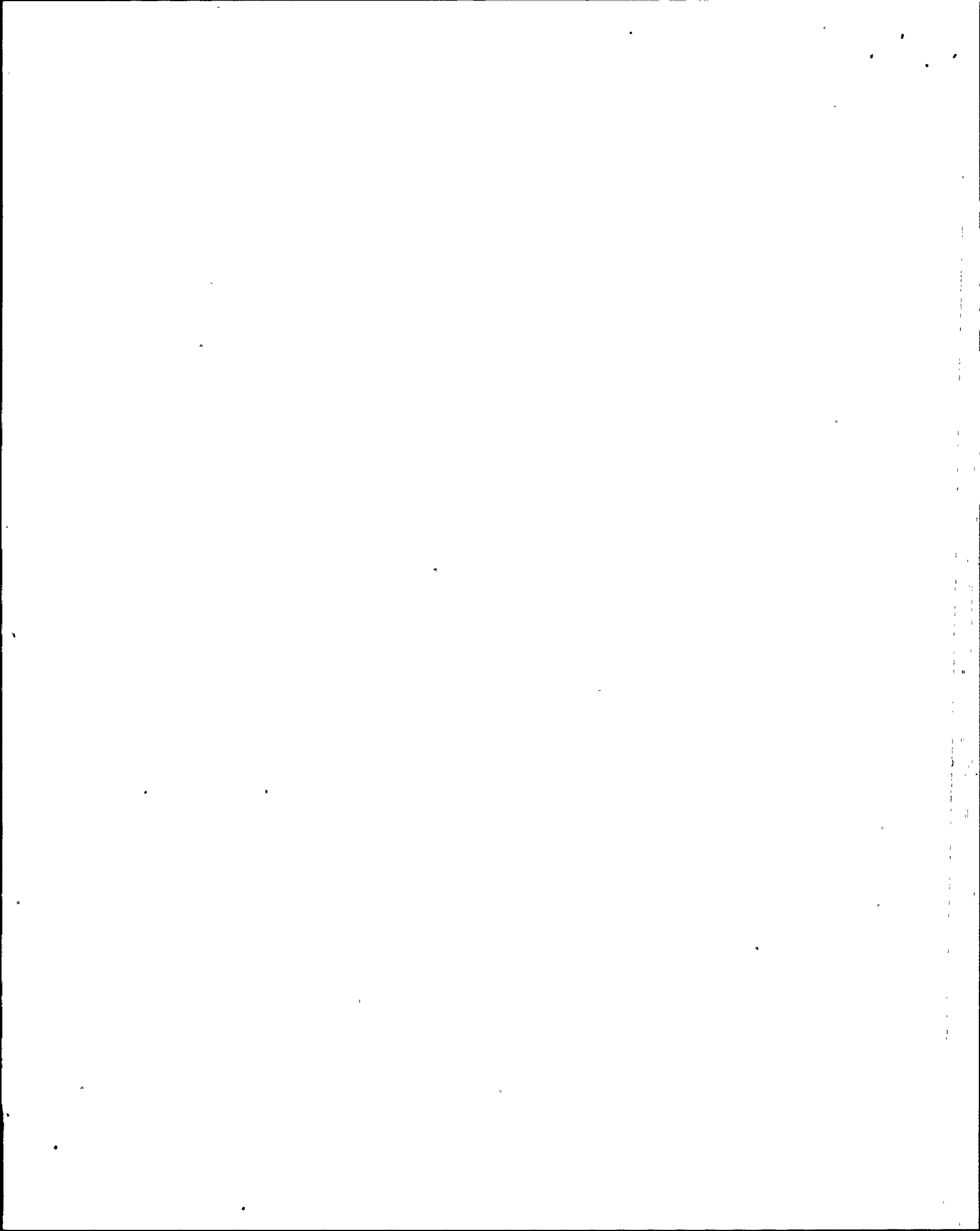


REO6N7N78G20 1

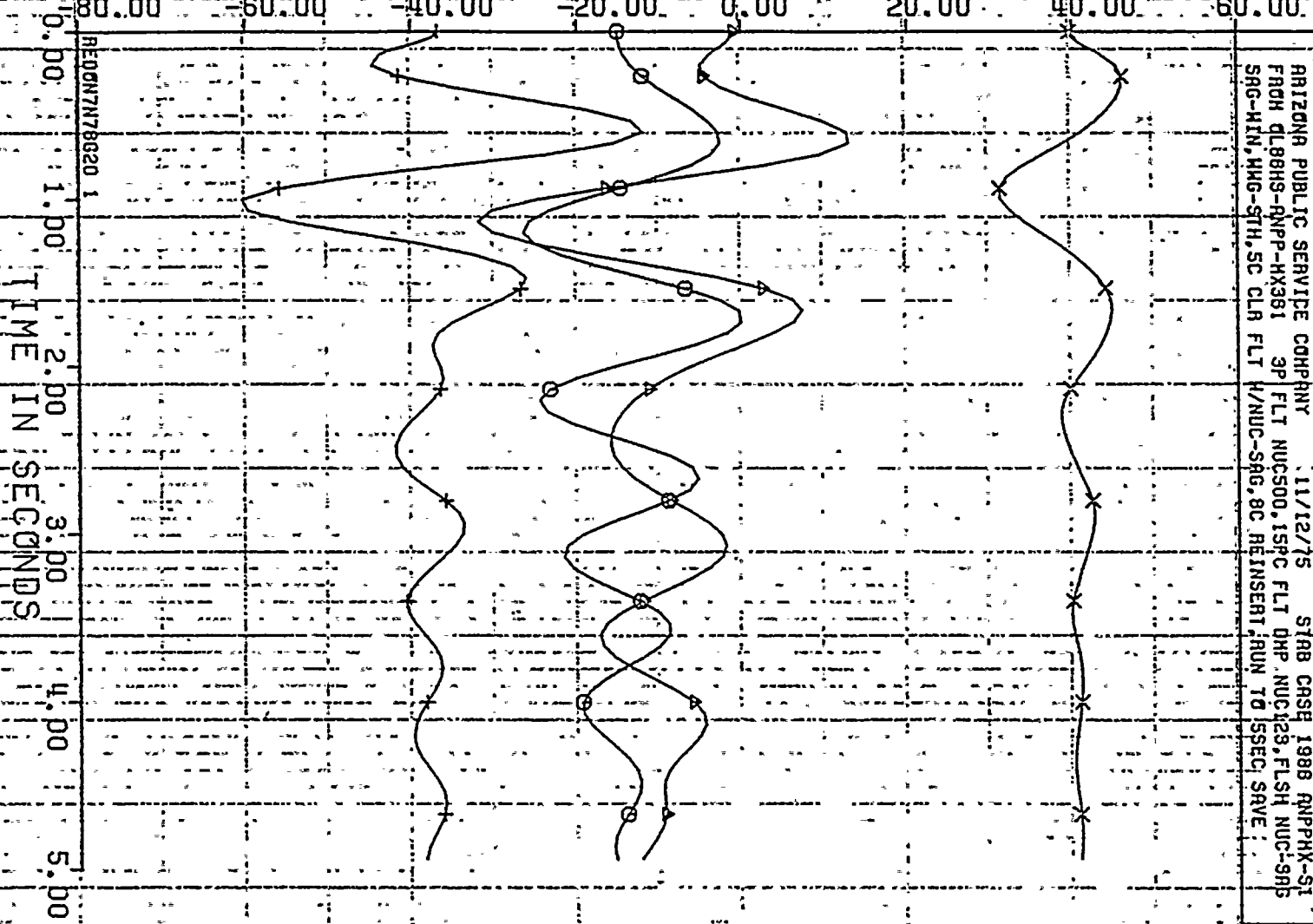
TIME IN SECONDS

PLOT NO. 19
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX-S1
 FROM OLB8HS-RNPP-HX351 3P FLT NUC500,15HC FLT DRP NUC123,FLSH NUC-SRS
 SAG-MIN,MHG-STH,5C CLR FLT /H/UC-SAG,8C REINSENT/RUN TO SSEC SAVE

IGLENCAN	613.8	1	=	X
DRVIS	13.8	1	=	+
IPRACHE	213.8	1	=	△
CHOLLAY	22.0	1	=	○



GENERATOR ANGLE IN DEGREES

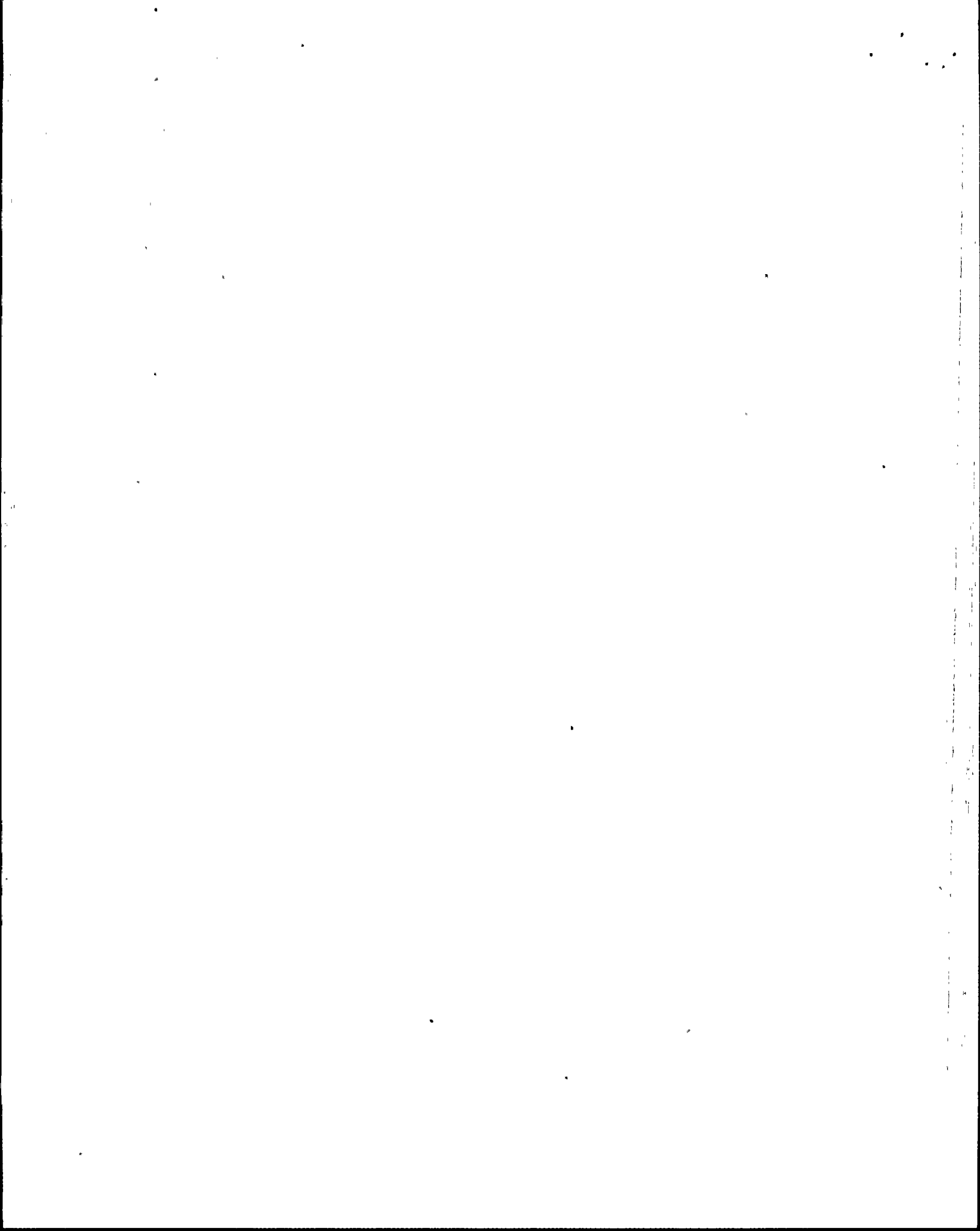


PLOT NO. 114
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1988 ANPHX-S1
 FRDH DL88HS-RNPP-HX361 3P FLT NUC500, 15FC FLT DHP, NUC123, FLSH NUC-SRS
 SAG-MIN, MNG-STH, 5C CLR FLT W/NUC-SAG, 8C REINSERT, RUN TO SSEC, SAVE

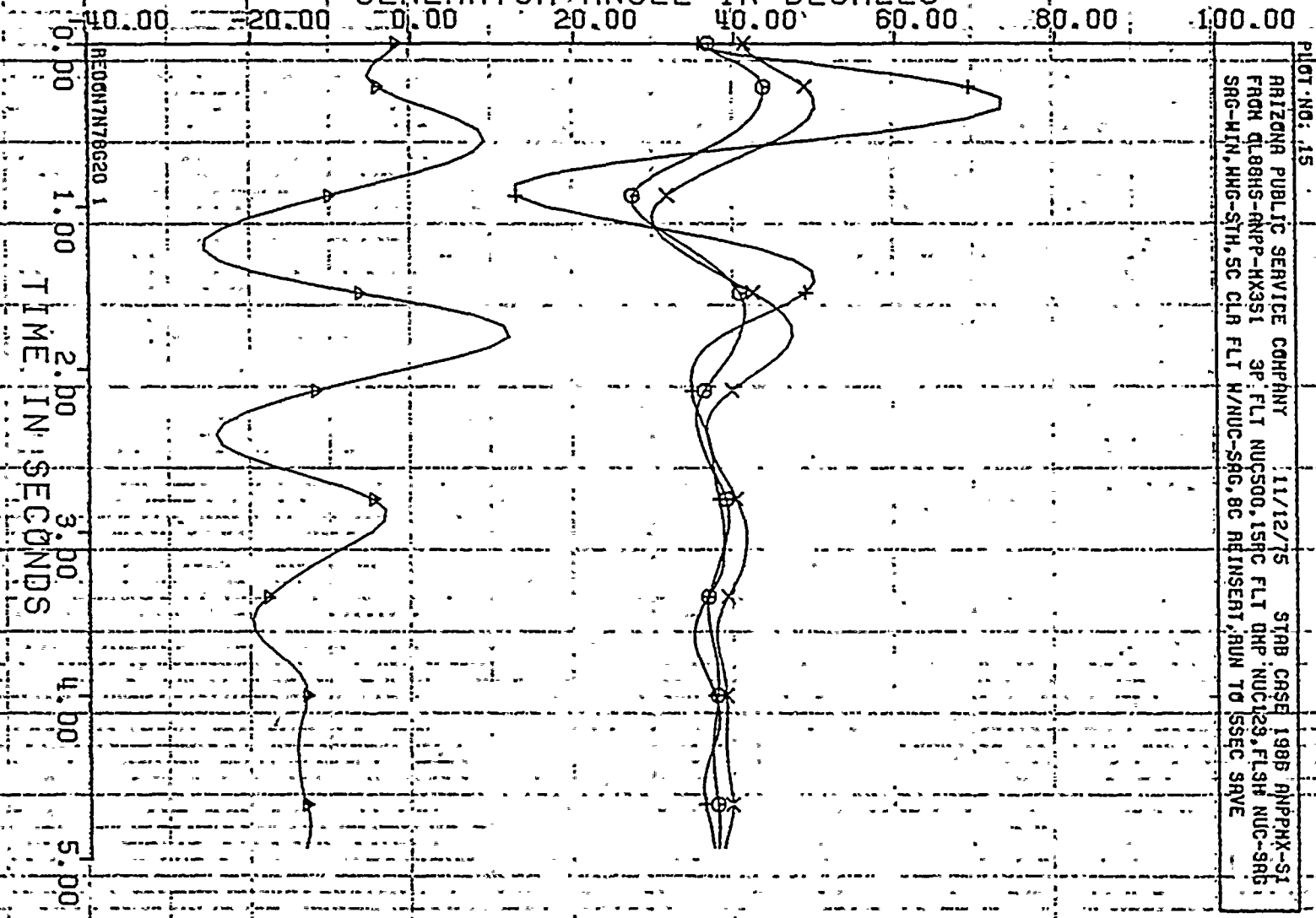
KAIPIA0126.0 1 - X
 HGUAFR3 18.0 1 - +
 IRTVGEY 18.0 1 - A
 HDOVER 18.5 1 - D

REDIGN78020 1

TIME IN SECONDS



GENERATOR ANGLE IN DEGREES



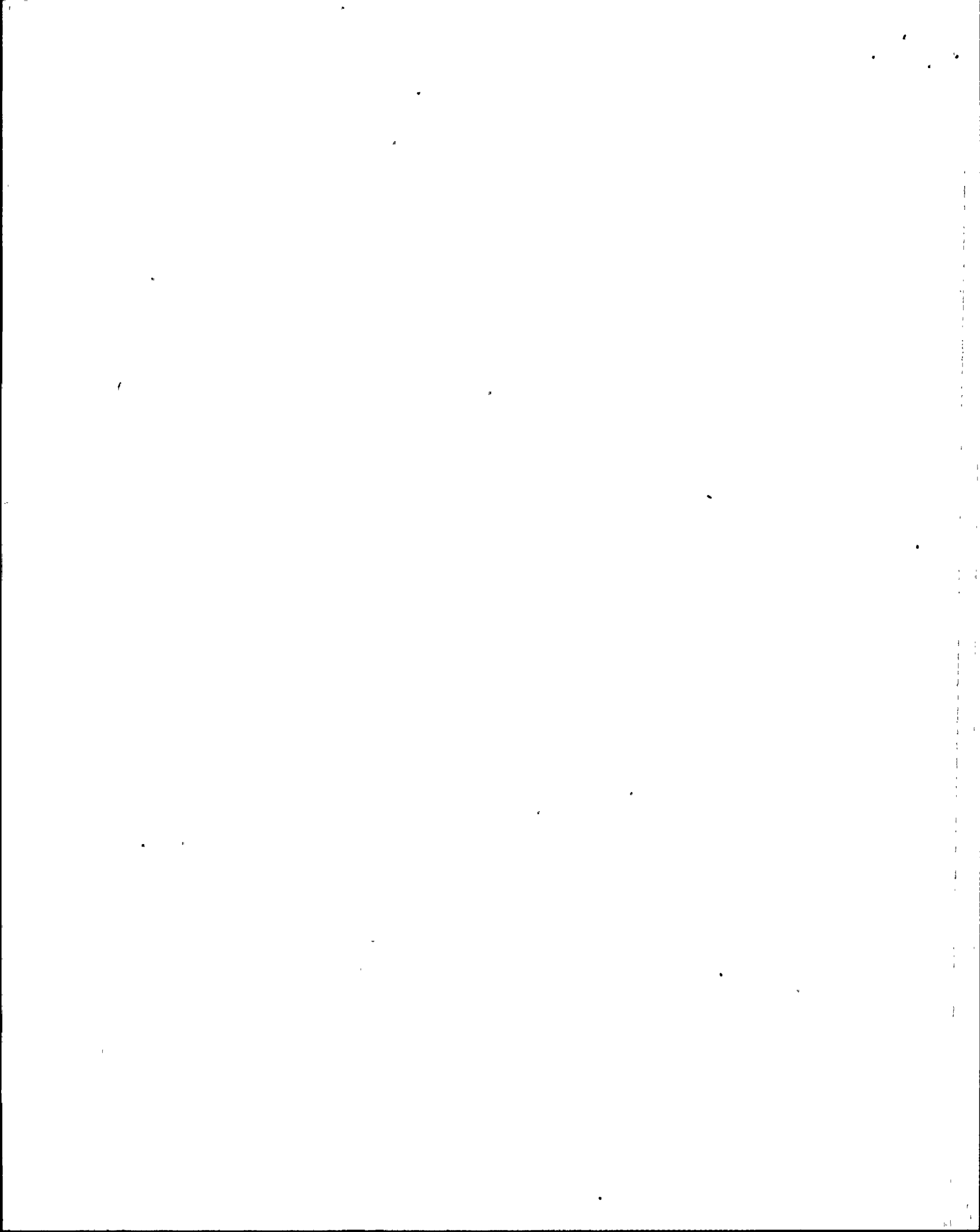
PILOT NO: 15
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1985 ANPPHX-S1
 FROM DL88HS-ANPE-HX31 3P FLT NUC500, 15PC FLT DRP NUC123, FL3H NUC-SRG
 SRG-MIN, MNG-SIH, SC CLR FLT H/AUC-SRG, 8C REINSENT, RUN TO SSEC SRVE

FCNGN40022.0 L
 NUCGEN2 24.0 1
 NEKRNQ313.8 1
 INVRJ0 128.0 1

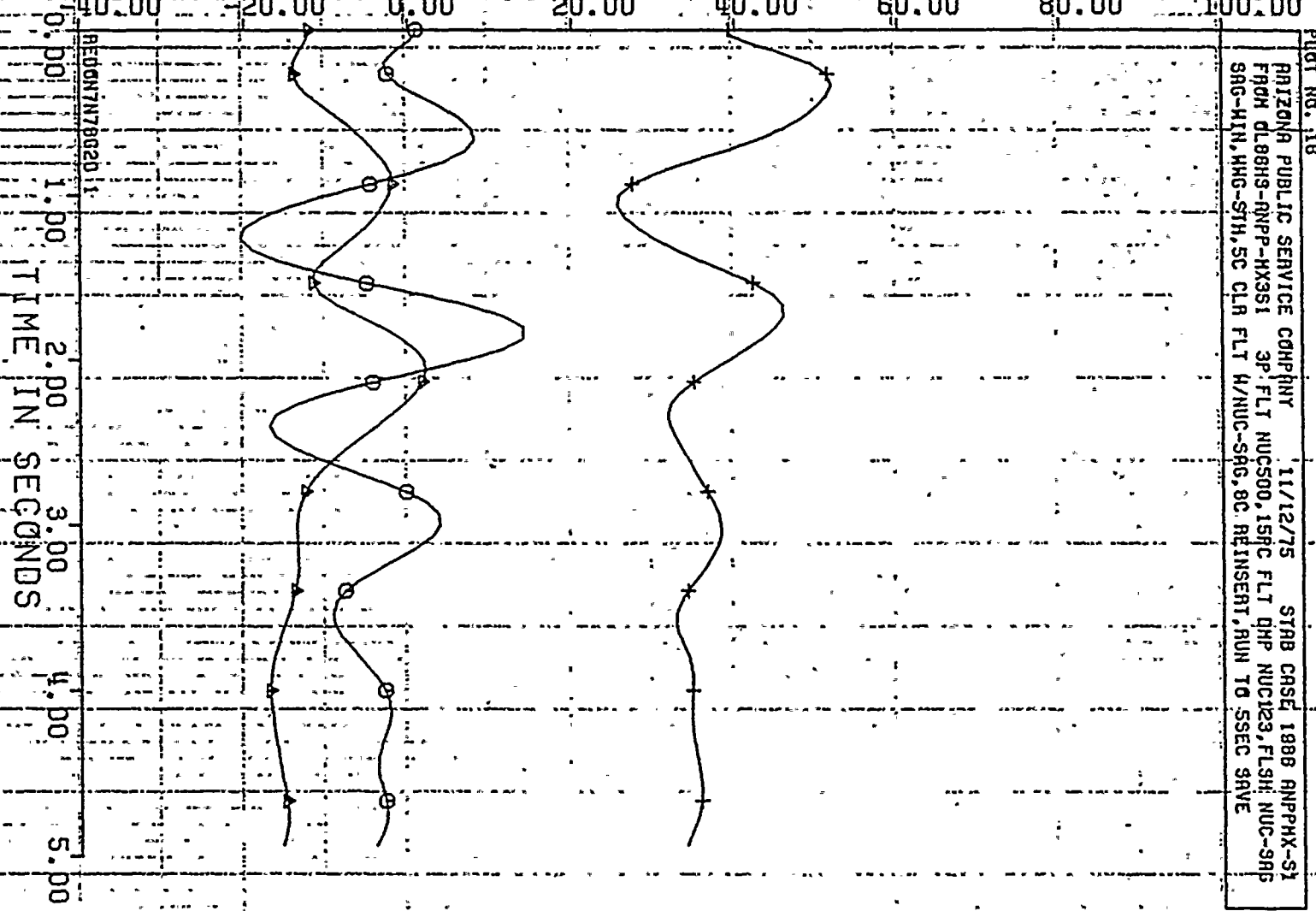
- X
 - +
 - triangle
 - circle

REC0GN7N76G20 1

TIME IN SECONDS



GENERATOR ANGLE IN DEGREES

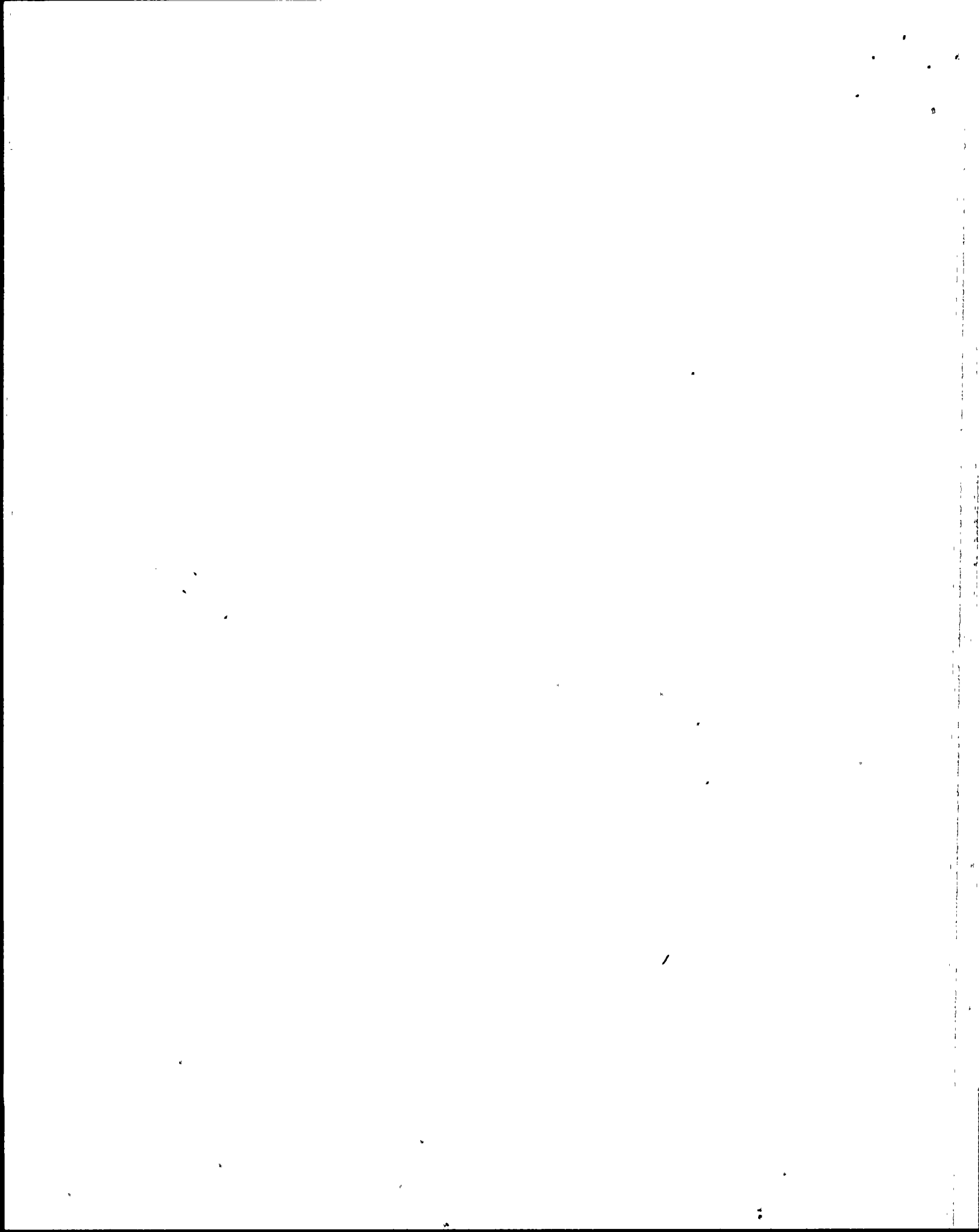


REDONN7802011

TIME IN SECONDS

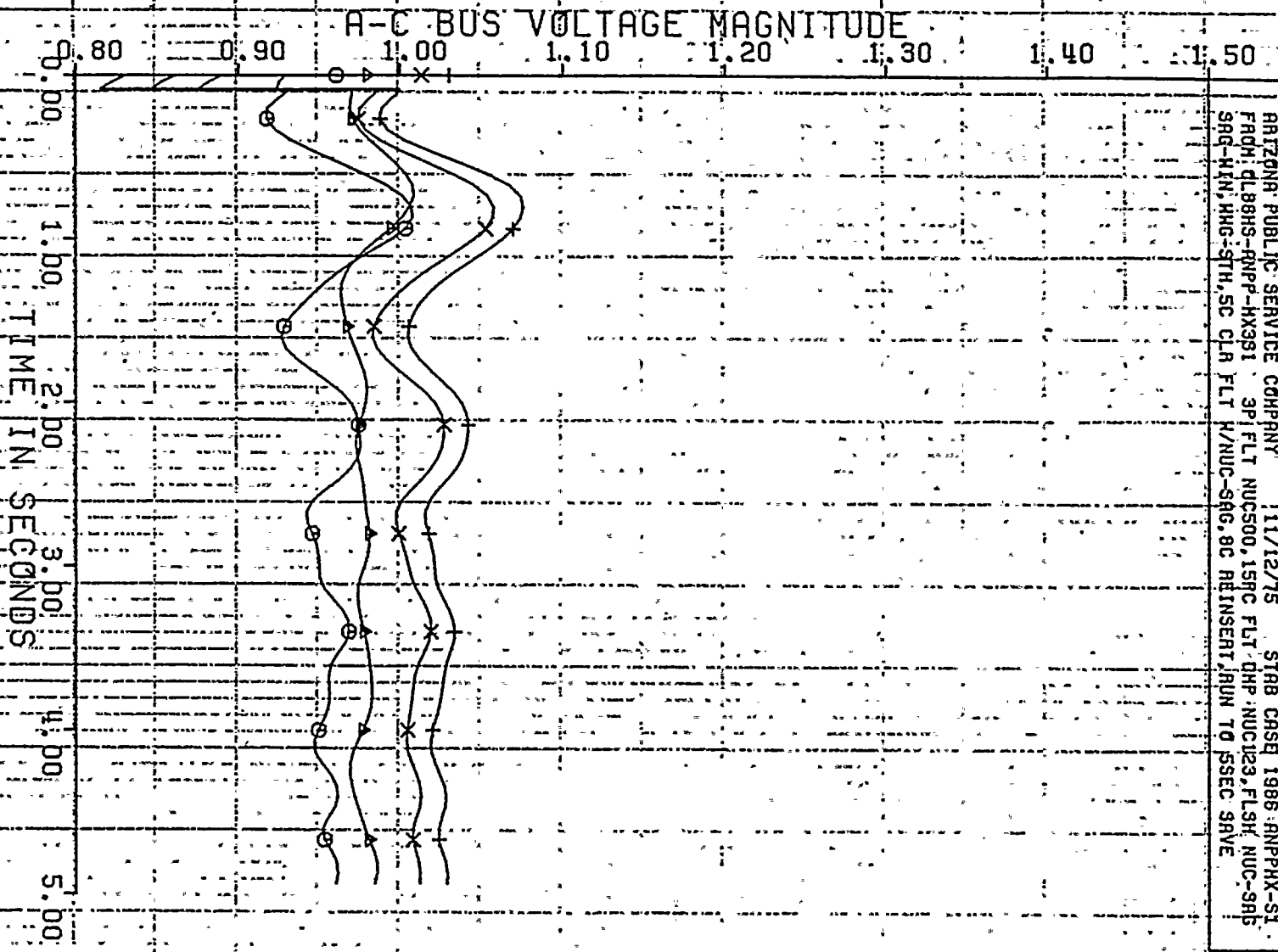
PILOT NO. 18
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1888 ANPAX-S1
 FROM DL88H9-ANPP-HX351 3P FLT NUC500, 15RC FLT QHP NUC123, FLSH NUC-SRP
 SAG-MIN, MNG-STH, SC CLR FLT H/NUC-SAG, 8C: REINSERT, RUN TO SSEC SAVE

SJURN QU 22. 1 - +
 REV 03 : 13.8 1 - A
 0106 09 18.0 1 - O



PILOT NO. 17
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1985 ANPHX-S1
 FROM: DLBBS-RVP-FHX391 3P FLT NUC500, 15RC FLT-DHP-NUC123, FL9H NUC-9AB
 SRG-MAN, MNG-5TH, SC CLR FLT H/NUC-9AG, 9C REINSENT, RUN TO SSEC 9AVE

LUUG 500. = X
 ELDDRRR0500. = +
 PASTORJ230. = Δ
 DEVERS 230. = O



PILOT NO. 18

ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1886 ANPPHX-S1
FROM CL88HS-ANPP-HX3S1 3P: FLT NUC500, 15PC FLT OHP NUC123, FLSH NUC-SAG
SAG-WIN, HHG-9TH, 5C CLA FLT H/NUC-SAG, 8C REINSERT, RUN TO 5SEC SAVE

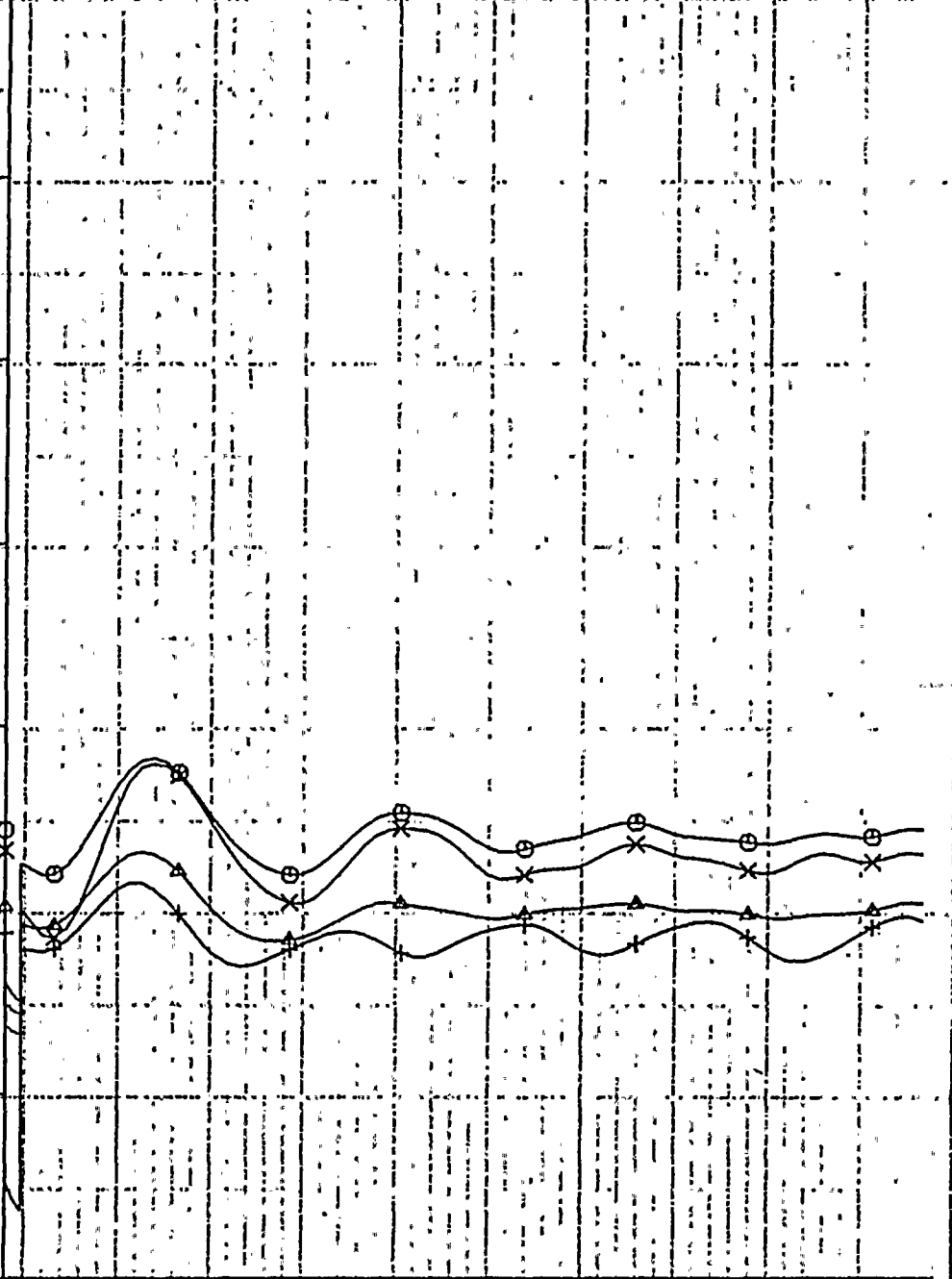
MOHAVE	500.	X
HAGUNDEEN	230.	+
PARDEE	230.	A
VINCENT	500.	@

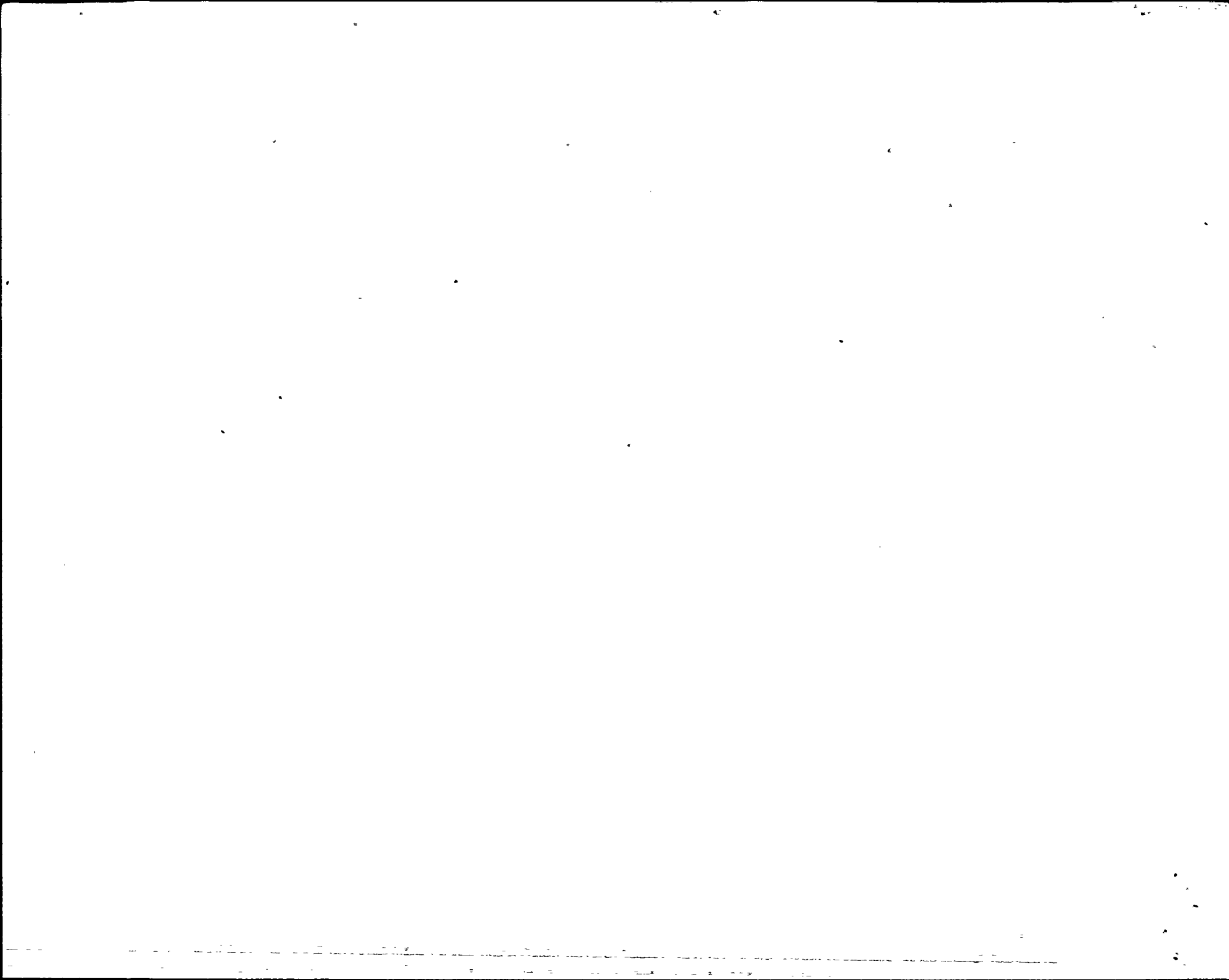
A-C BUS VOLTAGE MAGNITUDE

1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80

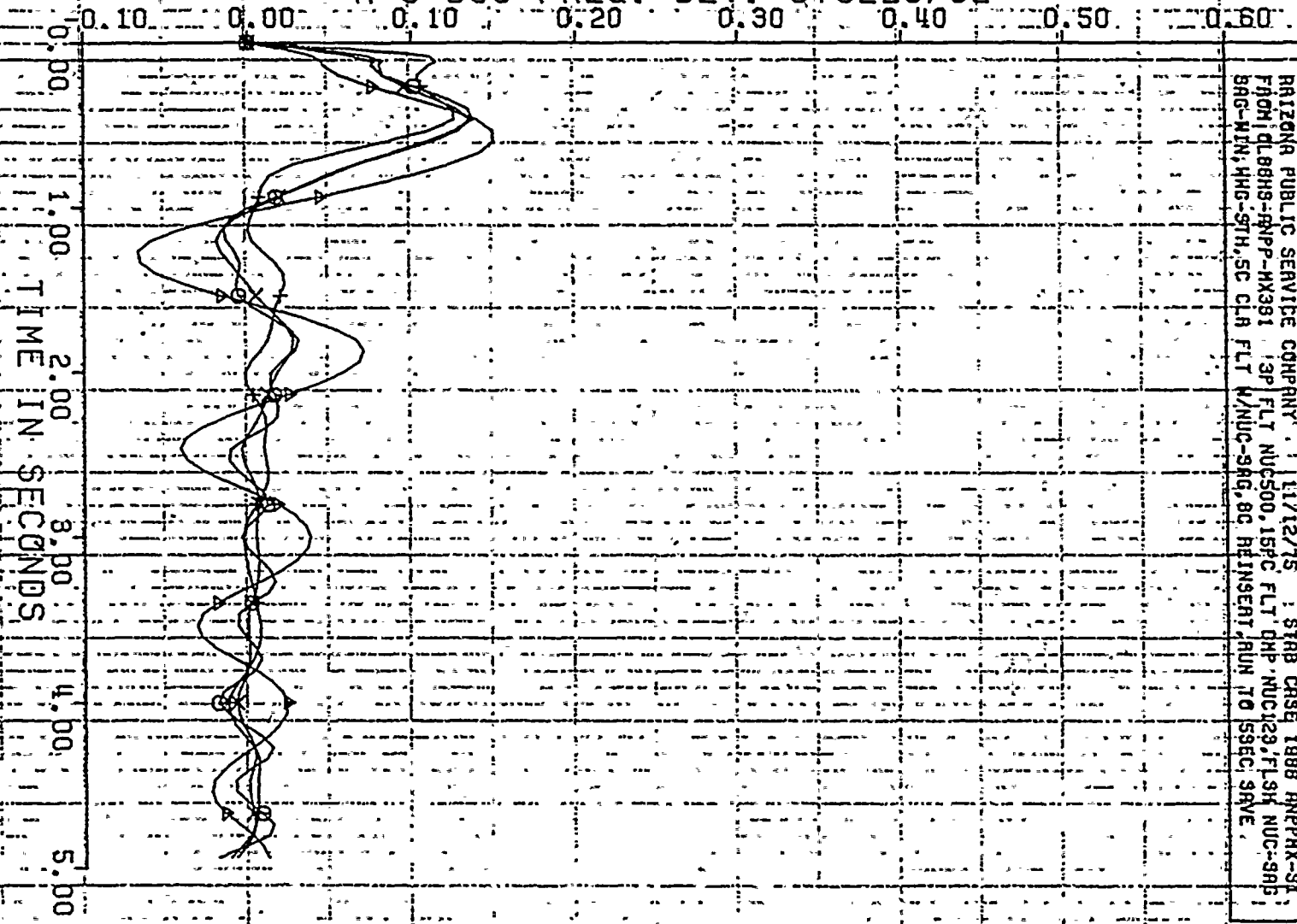
TIME IN SECONDS

0.00 1.00 2.00 3.00 4.00 5.00





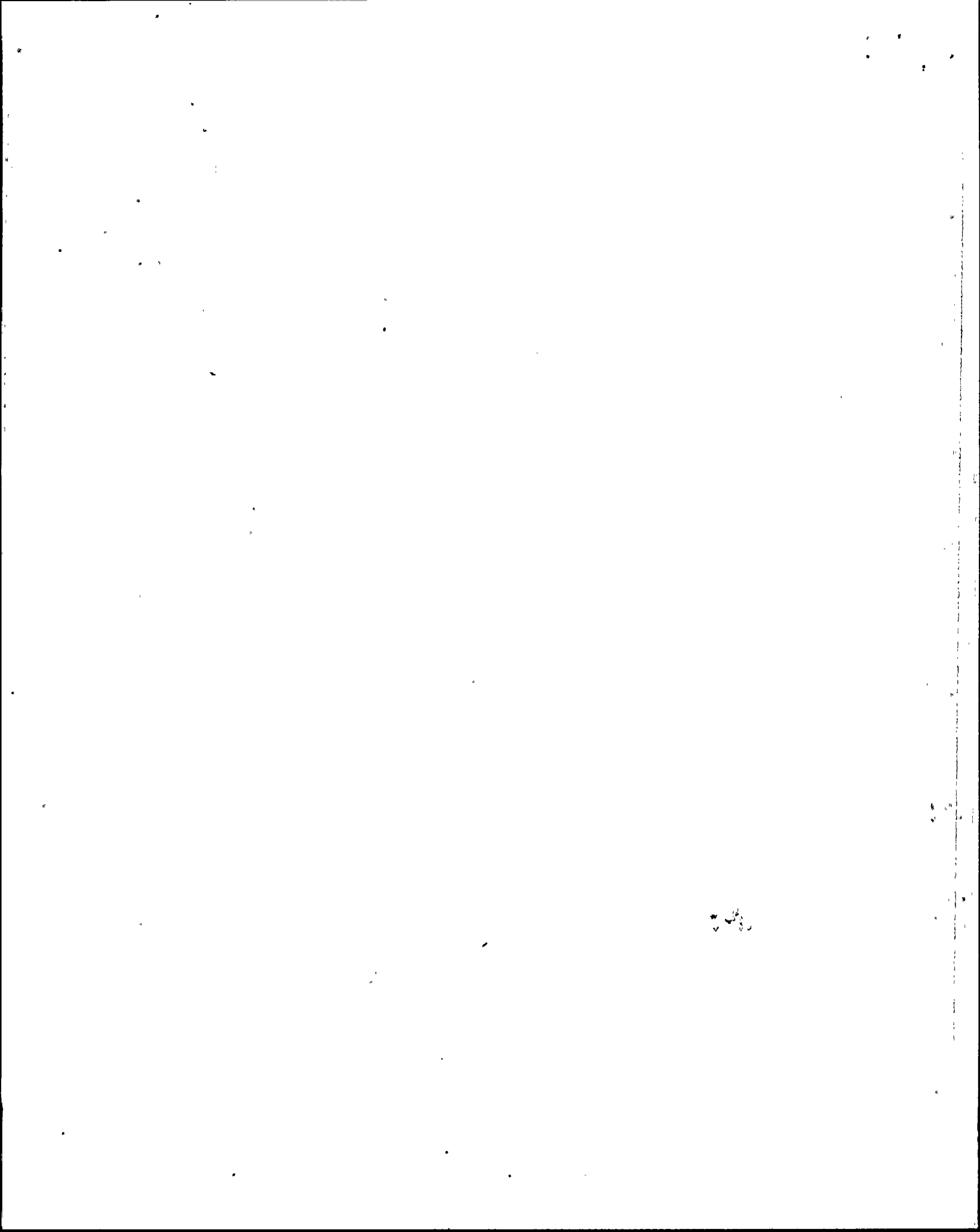
A-C BUS FREQ. DEV. CYCLES/SE

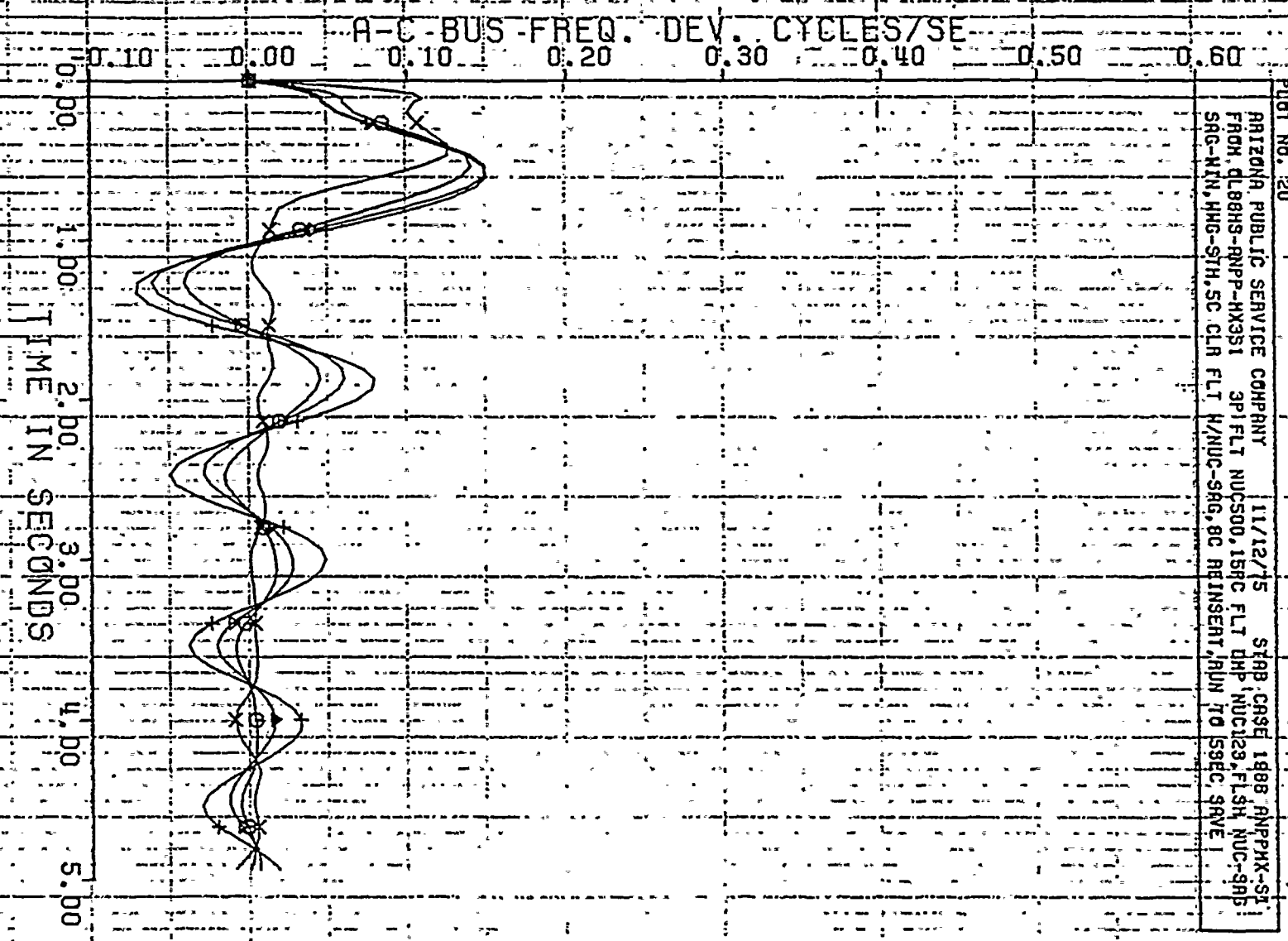


PLOT NO: 119
 ARIZONA PUBLIC SERVICE COMPANY
 FROM: DL8889-RNPP-HX381 3P FLT NUC500, 15PC FLT DHP NUC129, FL3H NUC-385
 BRG-MIN, MKG-STH, SC CLR FLT W/NUC-386, 8C REINSTATE, RUN TO 59SEC, 3RVE

LUGD 500.
 ELDOGR00500.
 PR3TDRR230.
 IDEVERS 230.

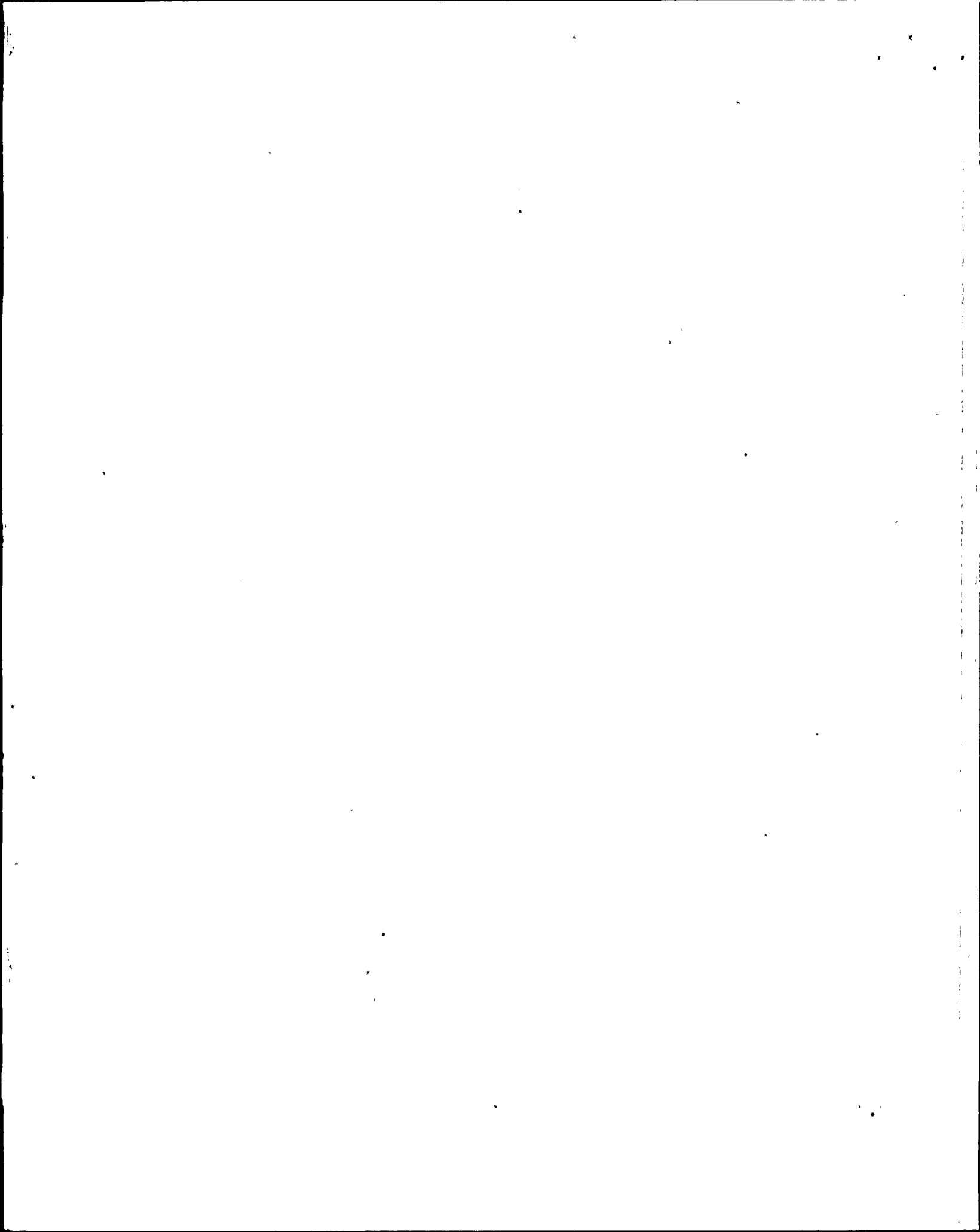
X
 +
 Δ
 ⊙

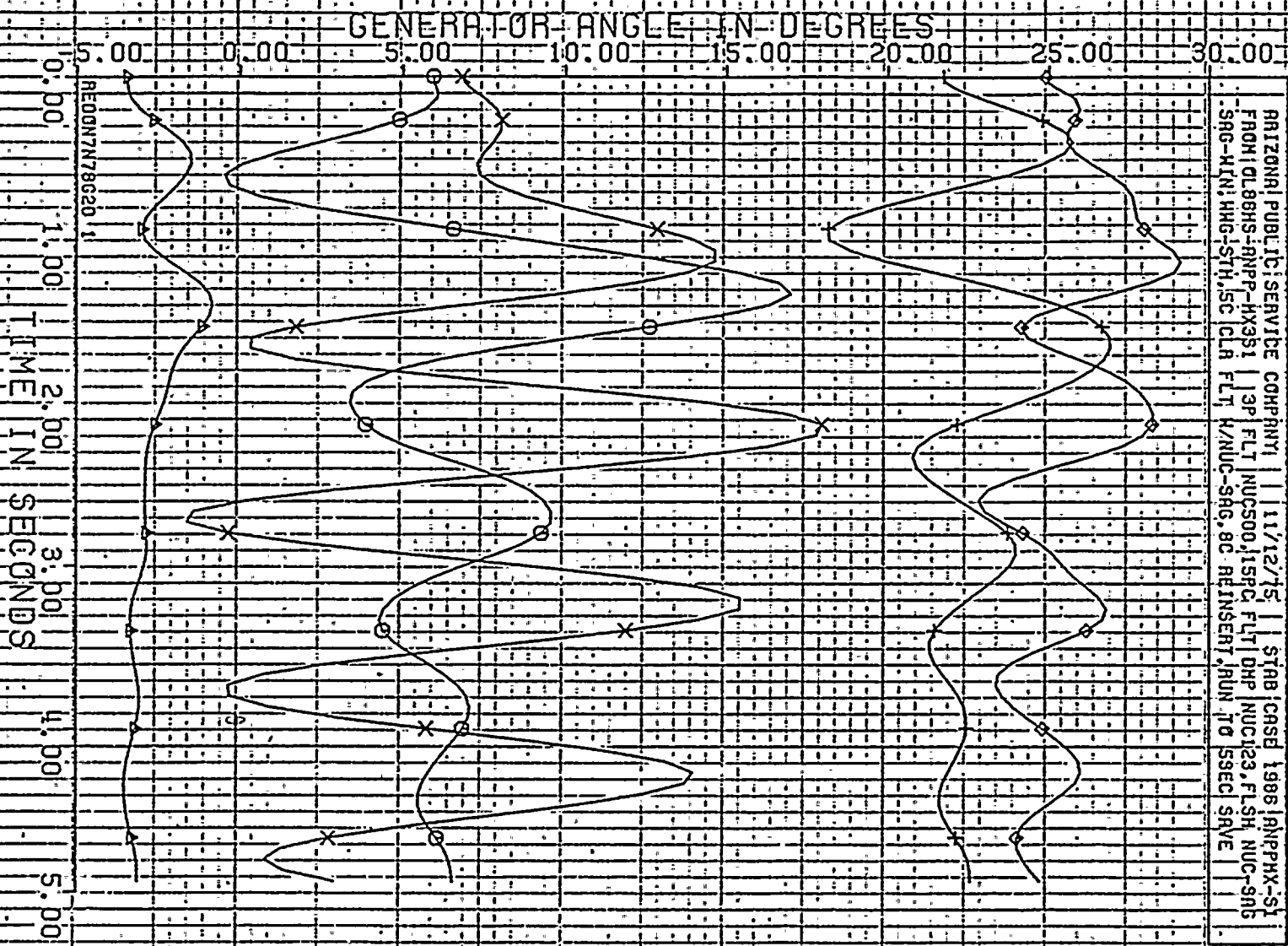




PLOT NO. 20
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB. CASE 1988 AN/PX-ST
 FROM: DL08HS-RNP-HX31 3P/FLT NUC500, 151C FLT DHP NUC123, FL5H, NUC-9NB
 SAG-NIN, HMG-STH, SC CLR FLT H/NUC-9AG, 8C REINSEAT, AUN TO 159EC, 9AVE

H0HVE 500.
 HRCUNDEN230.
 PARDE 230.
 VINCENT 500.
 X
 +
 ▲
 ●





PLOT NO: 2
 ARIZONA PUBLIC SERVICE COMPANY | 11/12/75 | STAB CASE 198 JANPHX-S1
 FROM: DLBHS-RMP-HXS1 | 13P FLT NUC50, 15PC FLT DNP NUC123, FL5H NUC-SNS
 SNG-MIN: HNG-STR, 5C CLR FLT H/NUC-SAG, 8C REINSERT, RUN TO SSEC SAVE

ORAND1226.D	1	1	+	+
BIGREK13.8	1	1	-	-
HONRVIQ22.D	1	1	-	-
RLRNT56620.D	1	1	-	-
SJ.GNDFR322.D	1	1	-	-

REODN7N78G20.1

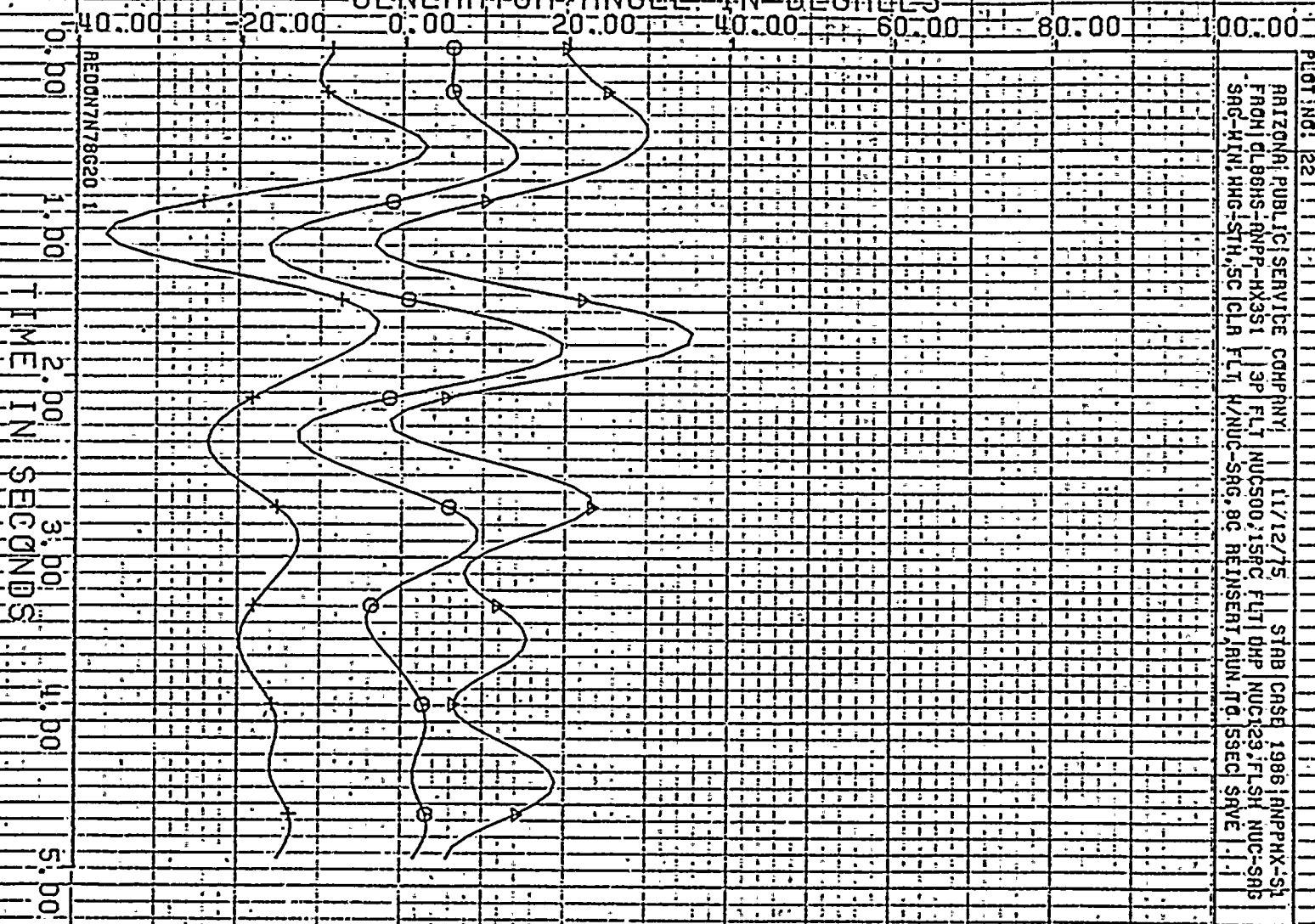
TIME IN SECONDS

ARIZONA PUBLIC SERVICE COMPANY
 FROM DL8815-ANP-HX31 3P FLT NUC500,15PC FLT DHP NUC129,FLSH NUC-SNS
 SAC-MIN, KUC-STH, SC CLR FLT K/UC-SAG, 9C REINSERT, RUN, PD, SSEC, SAVE

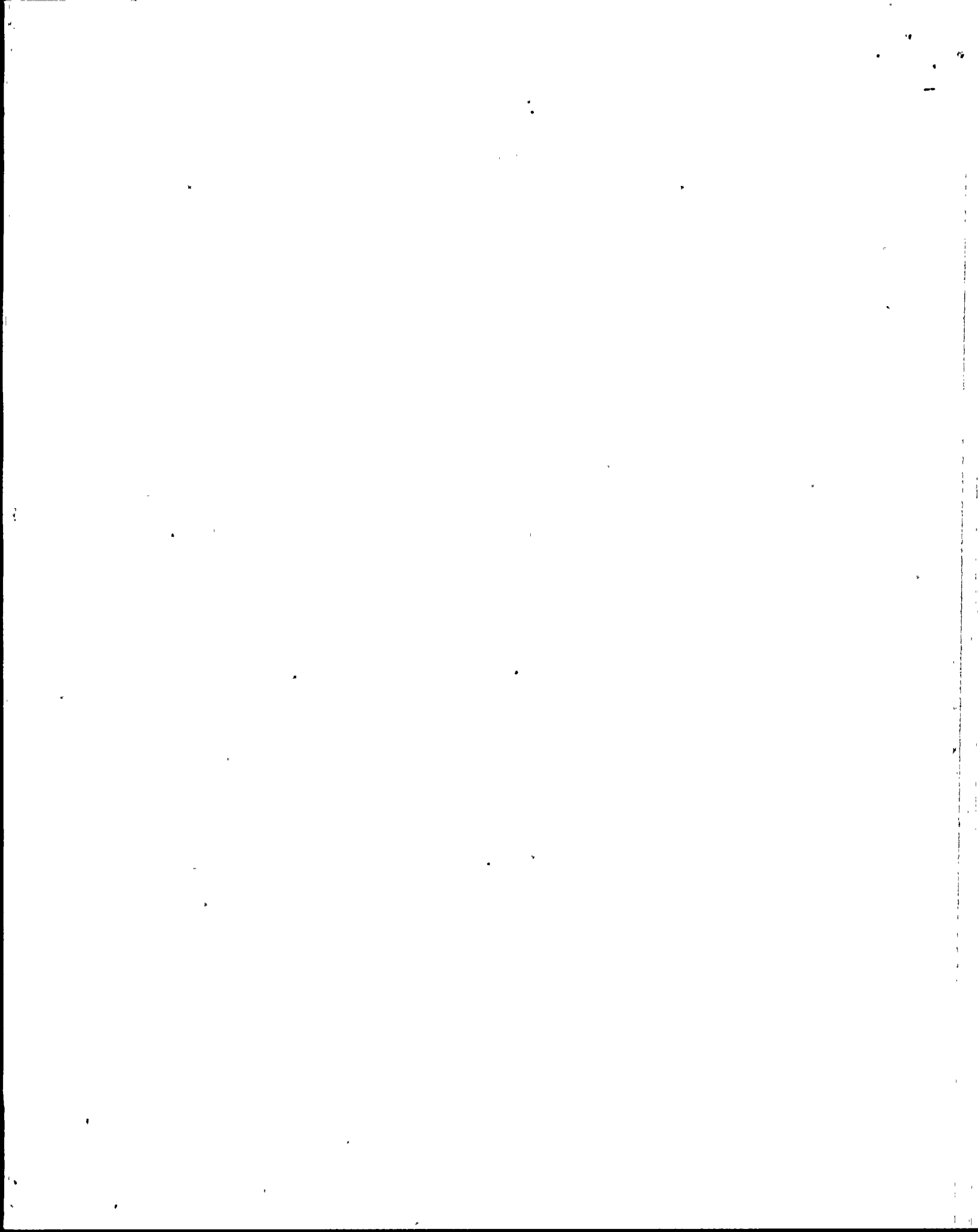
REV G1 13.811
 APACHE 113.811
 NEHANG613.811

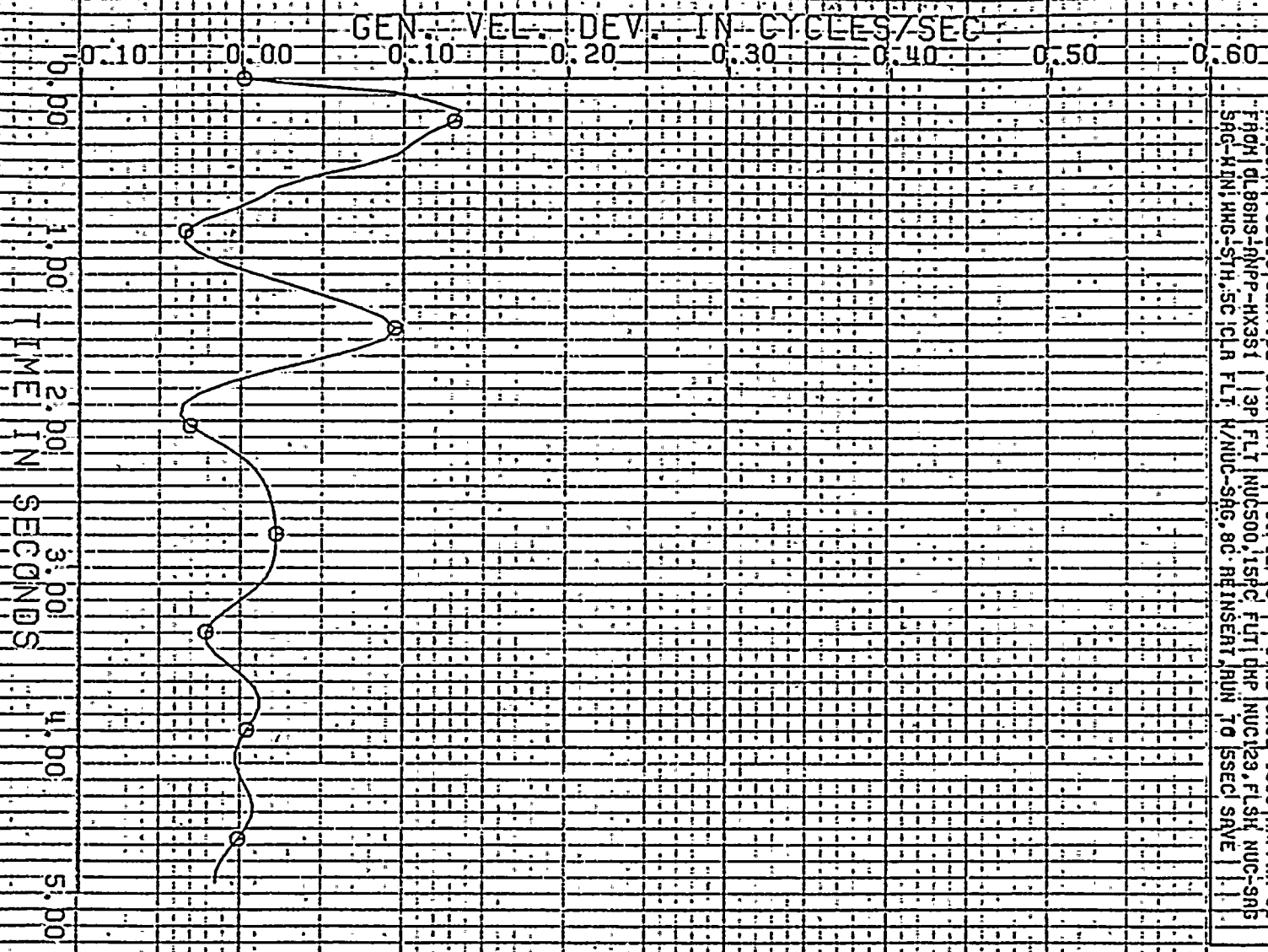
PLOT NO: 22

GENERATOR ANGLE IN DEGREES



REDONT78620 11

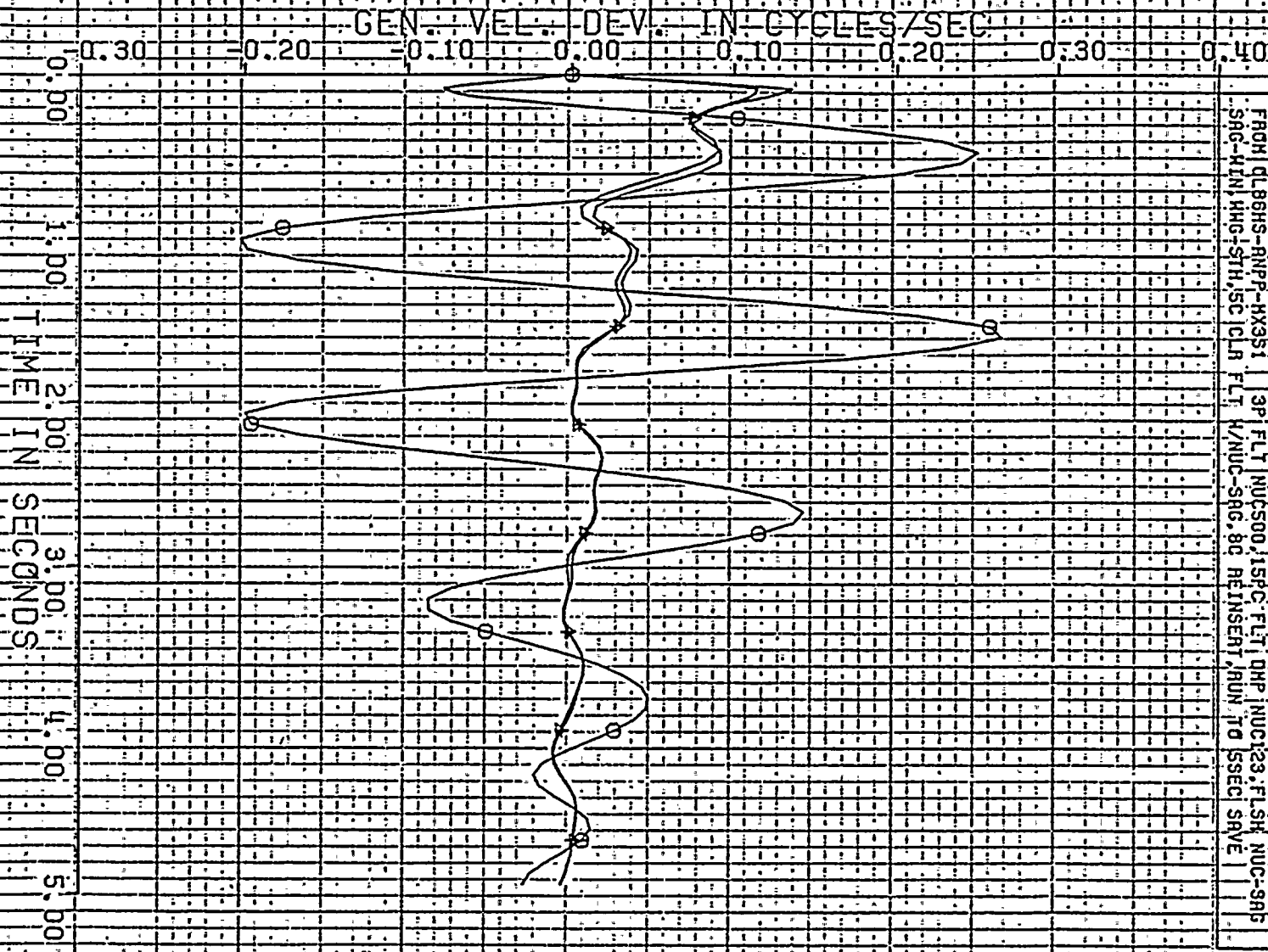




PLOT NO: 29

ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX-51
 FROM DLBHS-ANPP-HX31 13P FLT NUC500,ISPC,FLT DHP NUC123,FLSH,NUC-9MS
 SAC-MIN,ARC-STH,SCICLR FLT A/NUC-SAG,8C-REINSENT,PLN TO SSEC SAVE

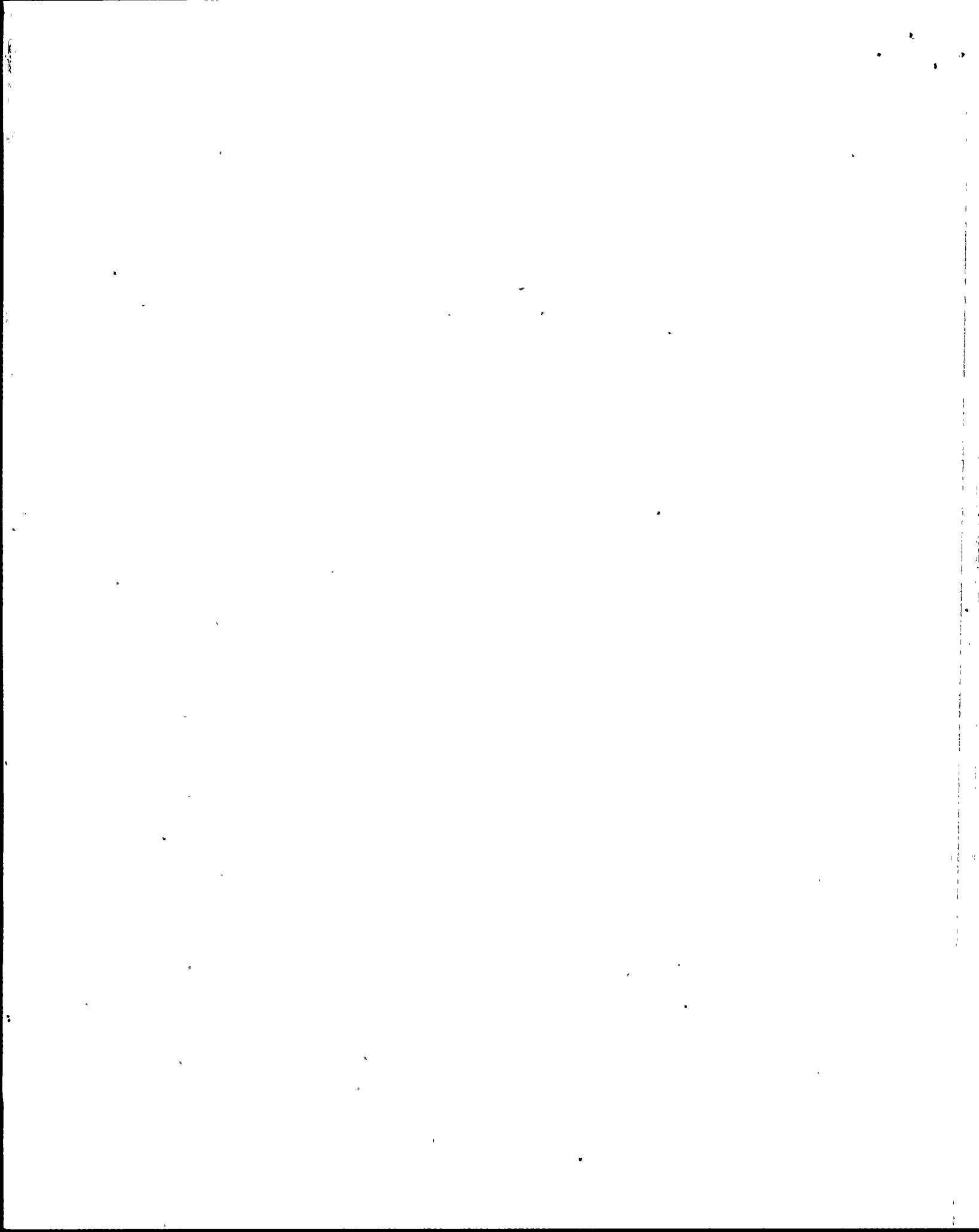
FCN6140022:01L - 0



ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 INPPHX-SY
 FROM DLBBSH-RNPP-HX351 3P FLT NUS00,ISPC,FLT,DHP INUC123,FLSK NUC-986
 SAC-MIN HHS-STH,SC CLR FLT /MUC-SGC,8C REINSERT,RUN TO SSEC SAVE

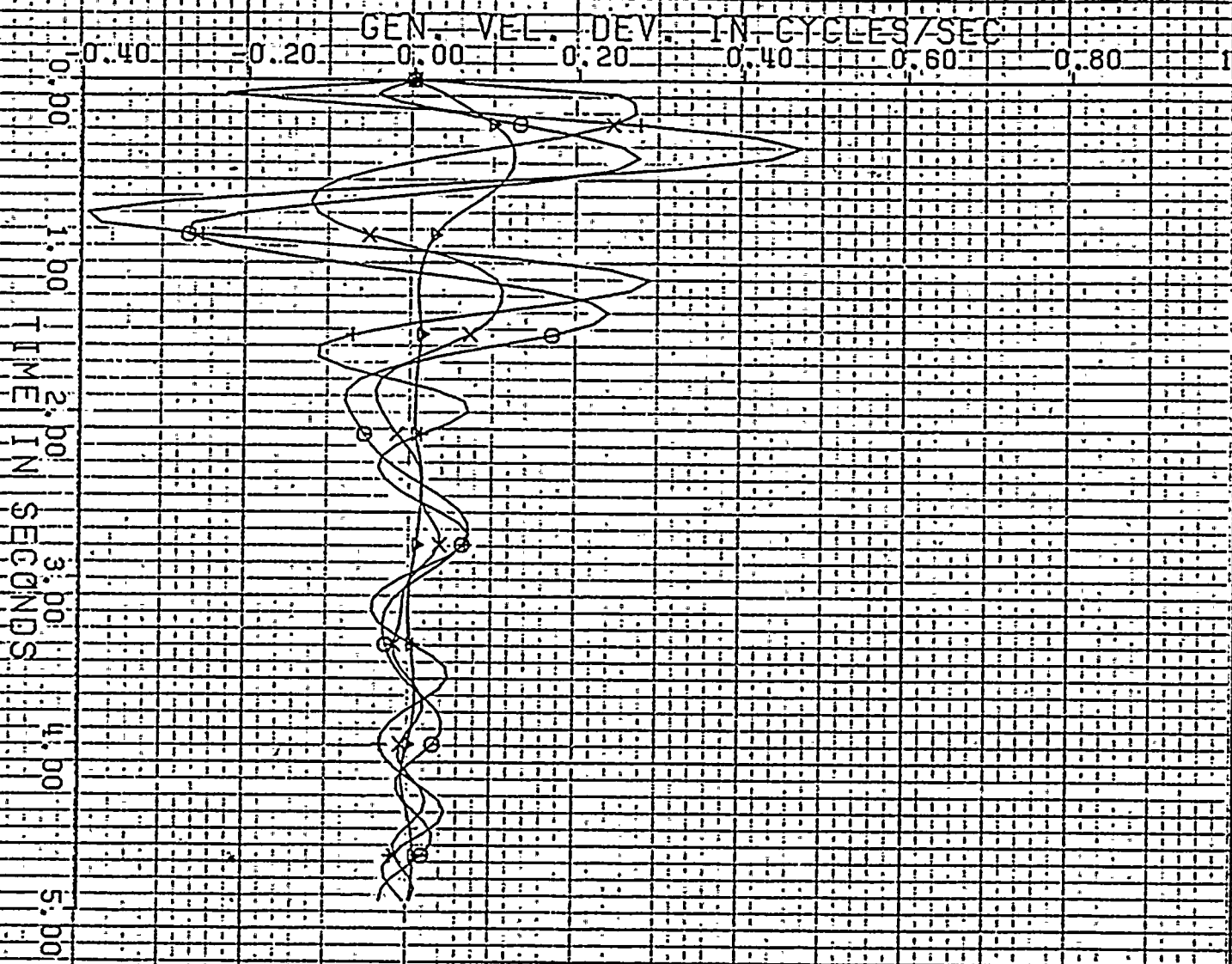
INAVJ0 128.0 1 1 +
 KR1PARC128.0 1 1 +
 R106 68 18.0 1 1 0

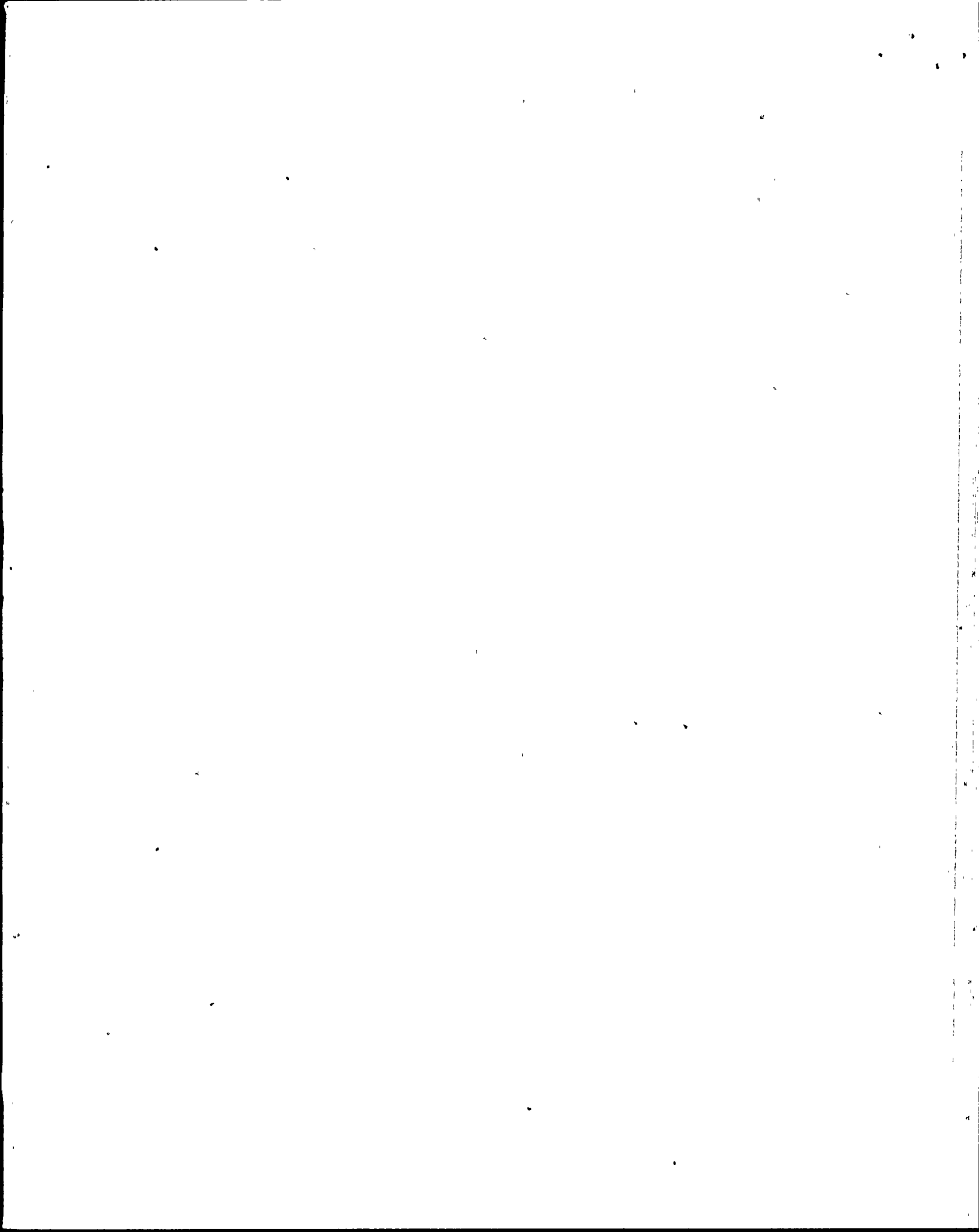
PLOT NO. 24

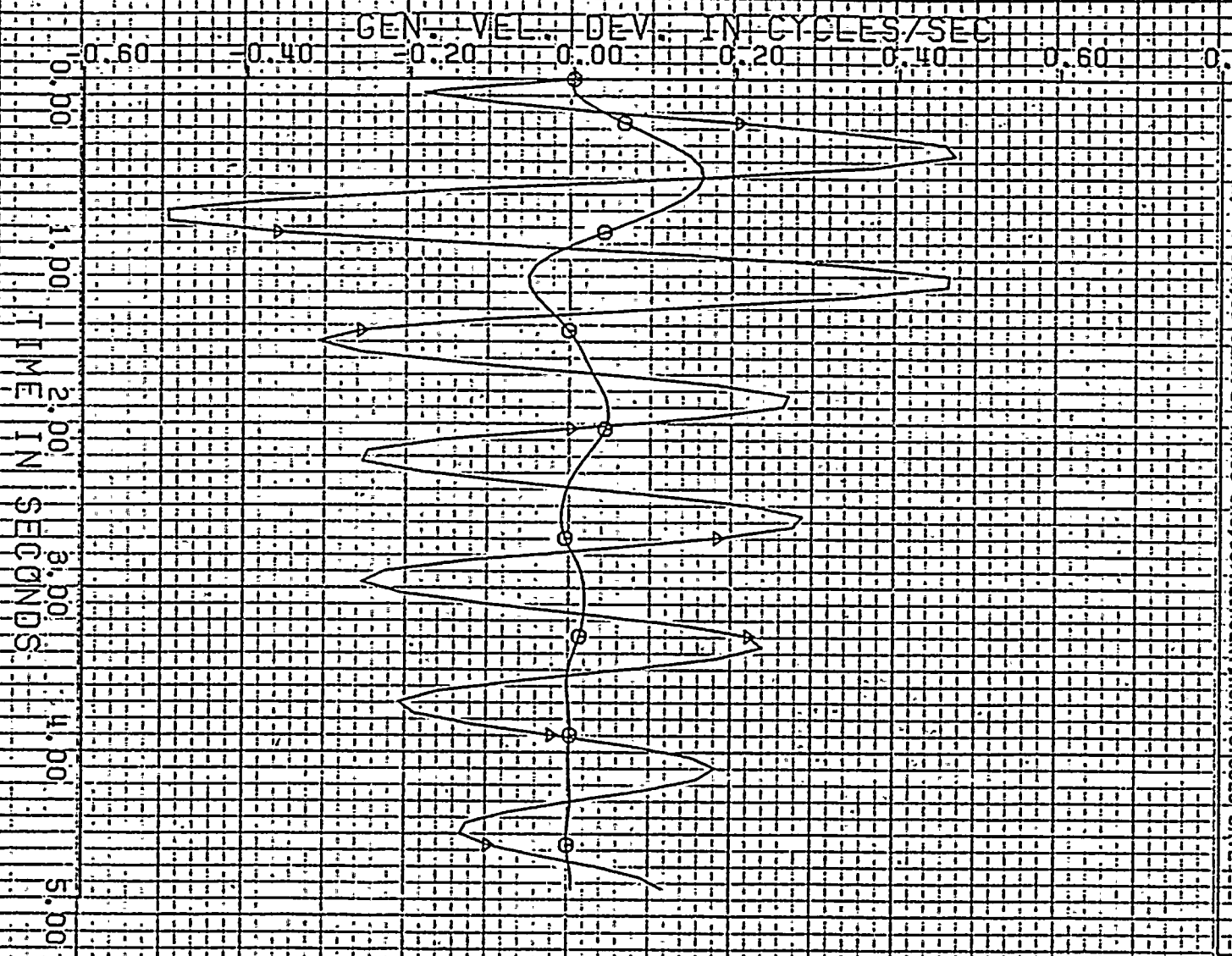


PILOT NO. 25
 ARIZONA PUBLIC SERVICE COMPANY
 FROM: DLBHS-RNPP-KX31 3P FLT NUC500,15PC FULT DHP NUC123,FL SH NUC-SAB
 SAG-HLN, HMG-STH, SCICLN FLT 4/NUC-SAG, 8C REINSEAT, RUN TO ISSEC SRVE

GLENCANA 3, B 1 1 1 X
 HCUAFR3 18, D 1 1 1 +
 H0HRY10C22, D 1 1 1 +
 REV 01 13, 8 1 1 1 0

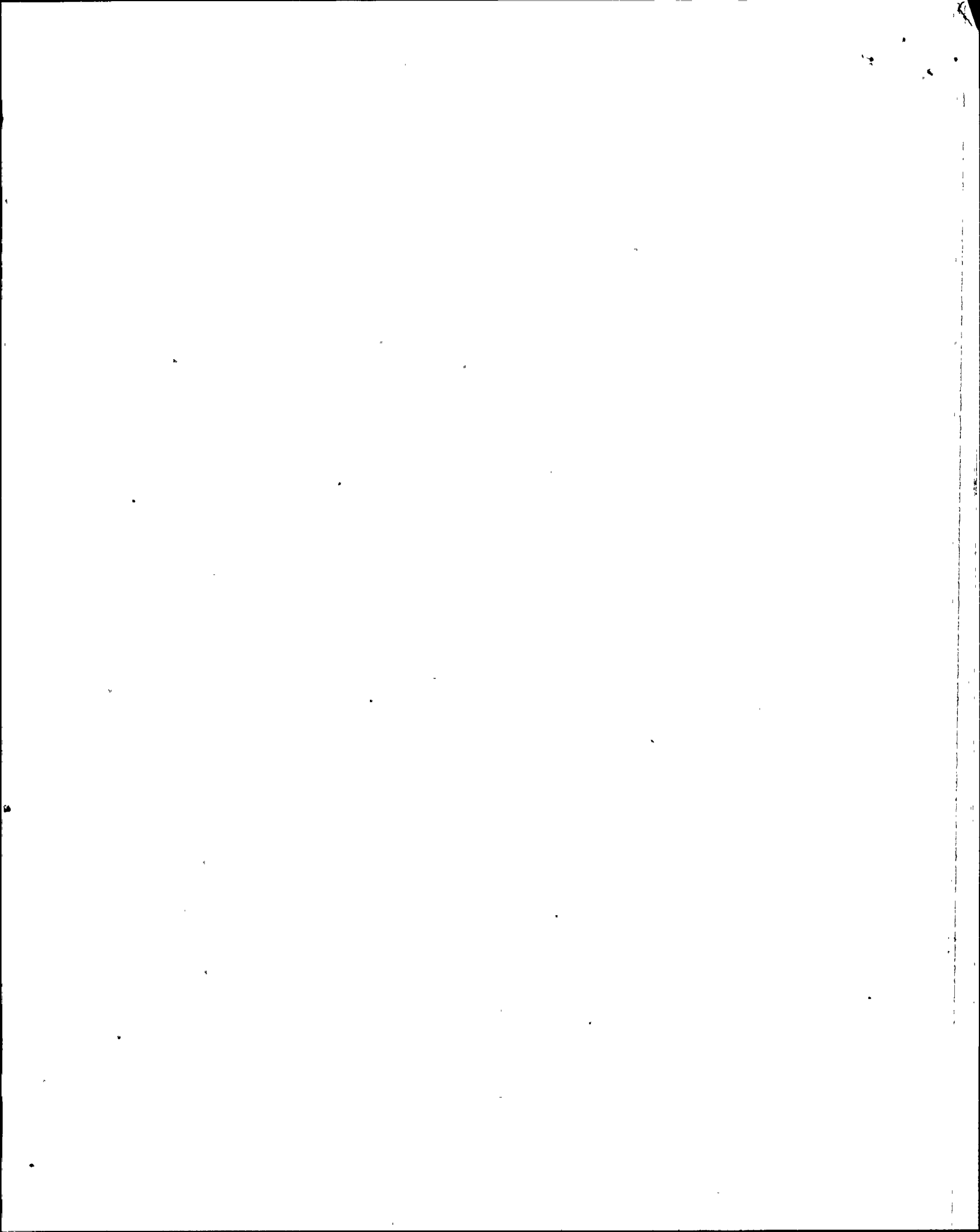






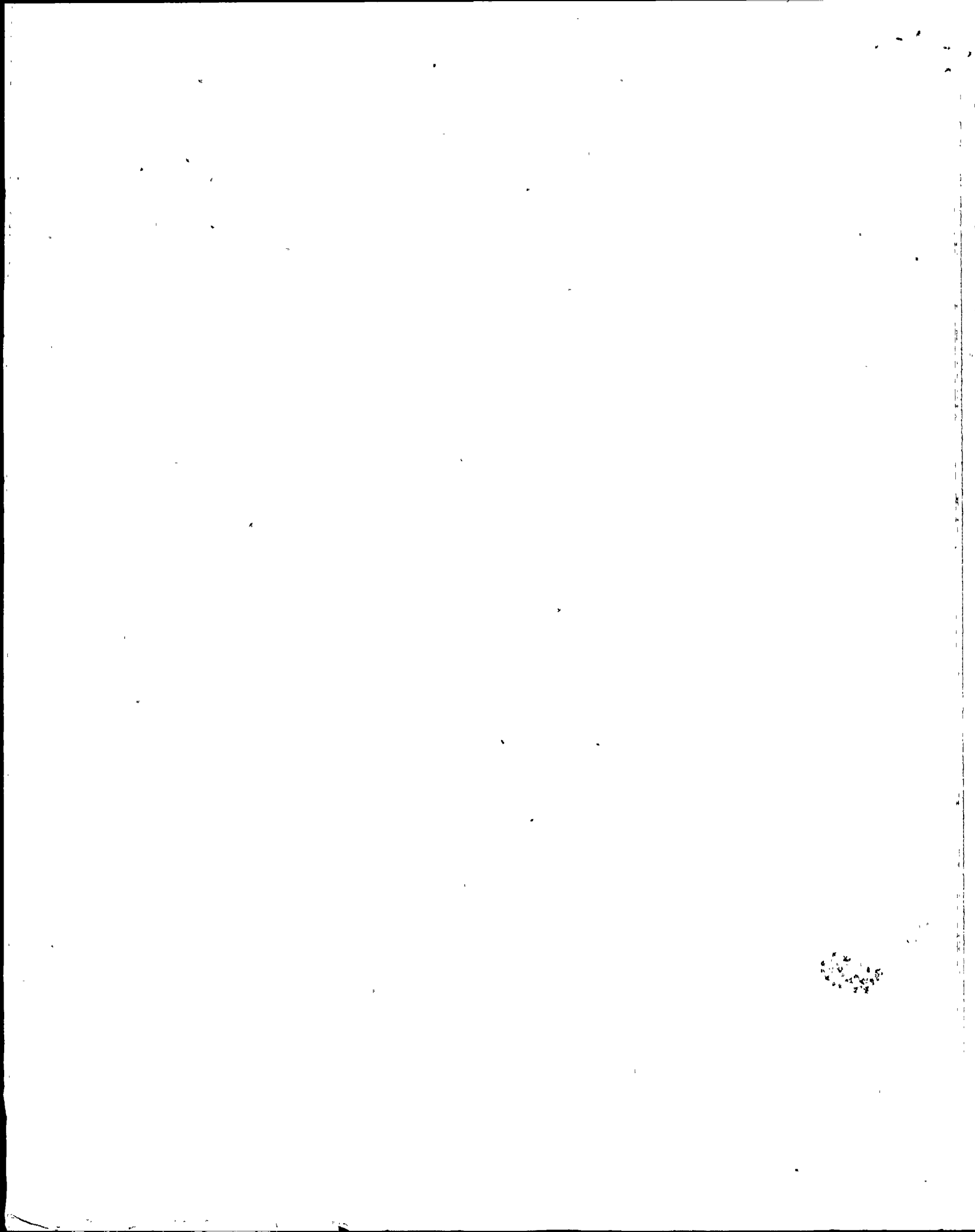
PLOT NO. 128
 ARIZONA PUBLIC SERVICE COMPANY
 FROM DLBHS-IMP-AXSI 3P FLT NUC500,15PC FLT DHP NUC123,FLSH NUC-SRS
 SAG-HW, HNG-STH, SC CLR. FLT H/NUC-SAG; 00; REINSENT, RUN TO SSEC. SAVE
 11/12/75 STAB CSB 1986JANPAX-S1

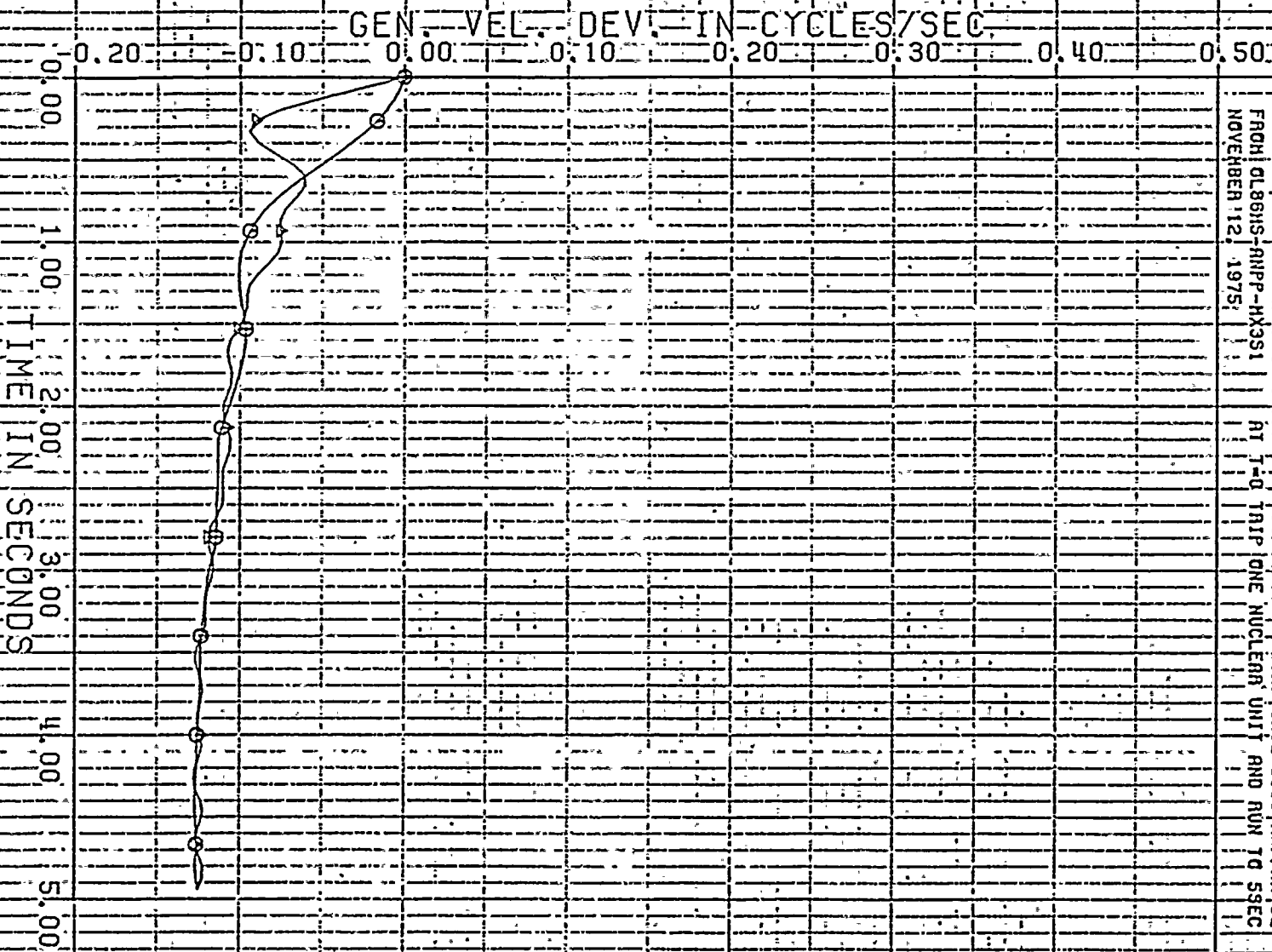
000711013.8 1 1 A
 RECON76620.0 1 1 0



STUDY CASE 1986 ANPP MX-S2

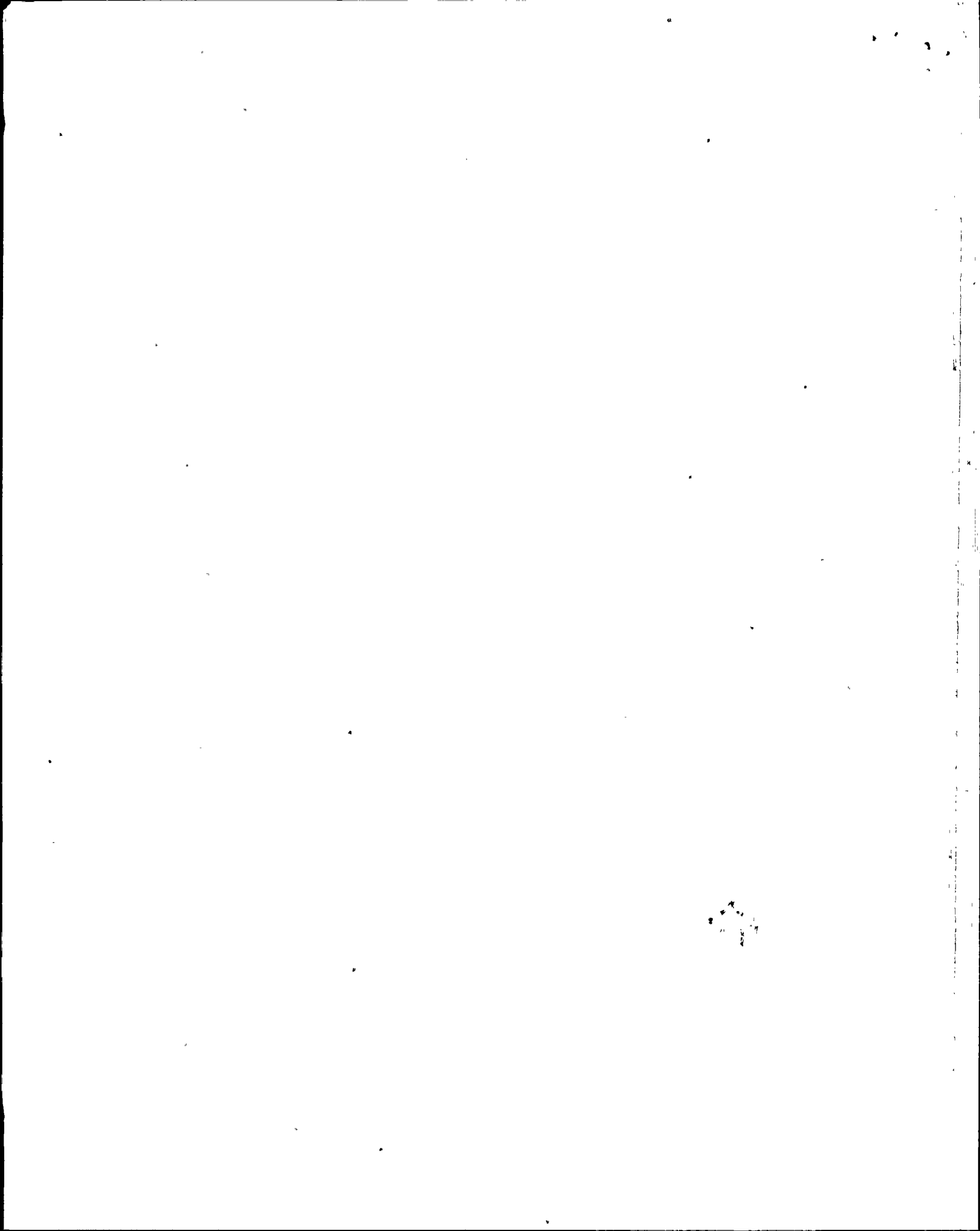
System Condition "B": "A sudden loss of one of the three PVNGS units with no underfrequency load shedding measures in effect."

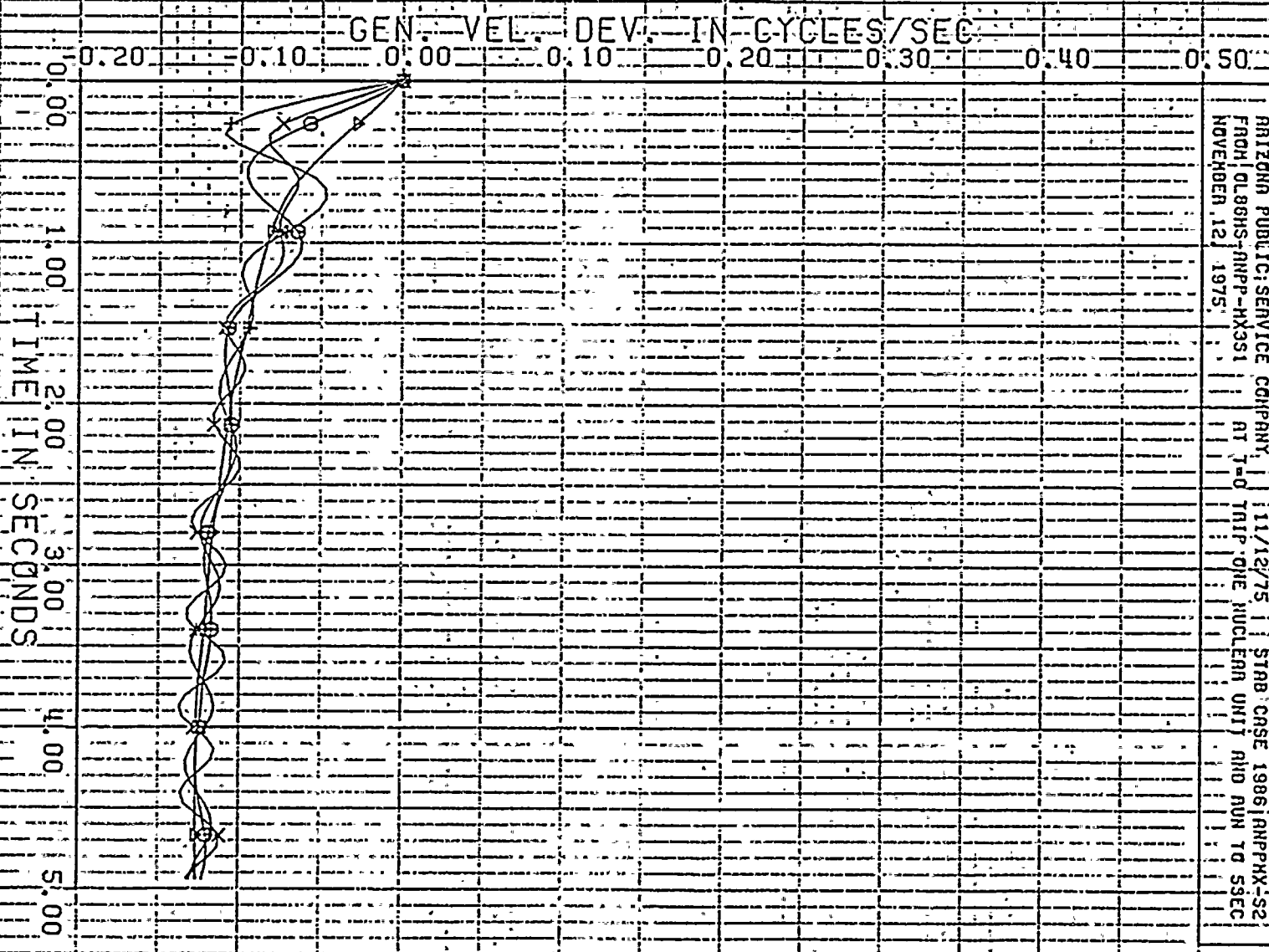




PLOT NO: 26
 ARIZONA PUBLIC SERVICE COMPANY
 FROM DL86HS-ANP-KX31
 NOVEMBER 12, 1975
 11/12/75
 STAB CASE 1968 ANPXX792
 AT T-0 TRIP ONE NUCLEAR UNIT AND RUN TO 5SEC

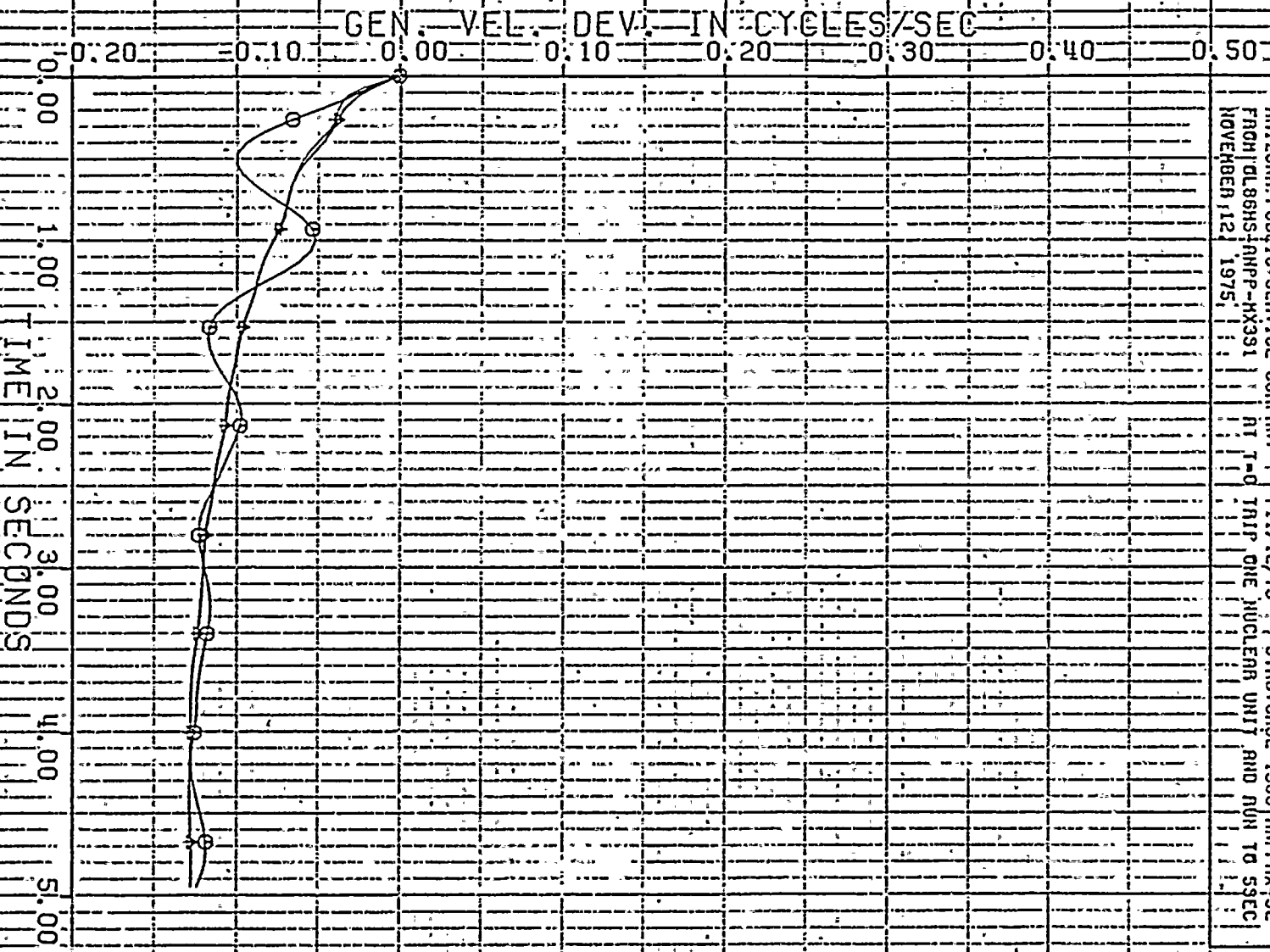
OCCUTILL013.0
 #E00N78620.0
 I . A
 I . 0





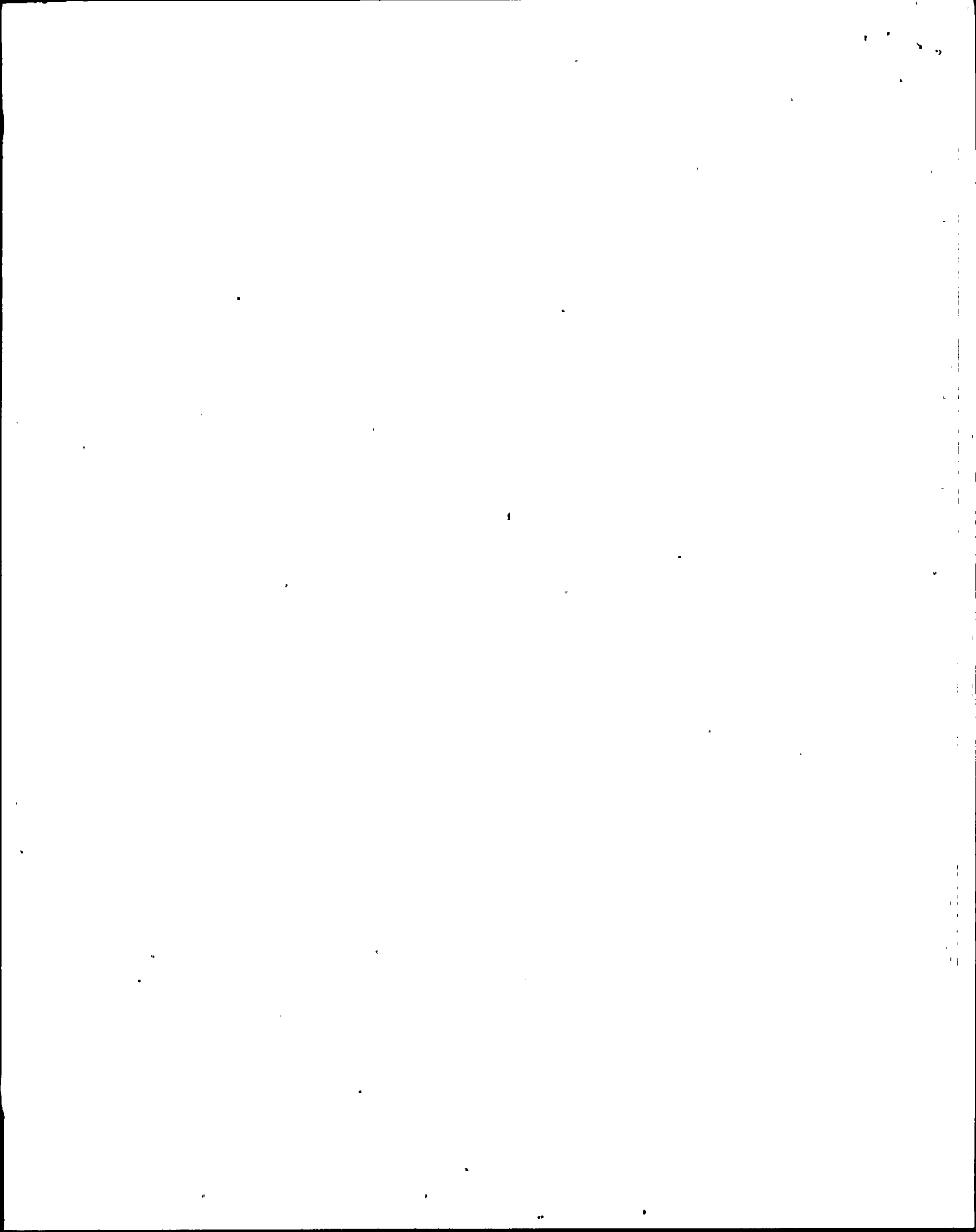
PLOT NO: 25
 ARIZONA PUBLIC SERVICE COMPANY
 FROM: DLBHS-ANPP-MX31
 NOVEMBER 12, 1975
 AT T=0 TRIP ONE NUCLEON UNIT AND RUN TO 5SEC
 STAB CASE 1986 (ANPPHX-52)

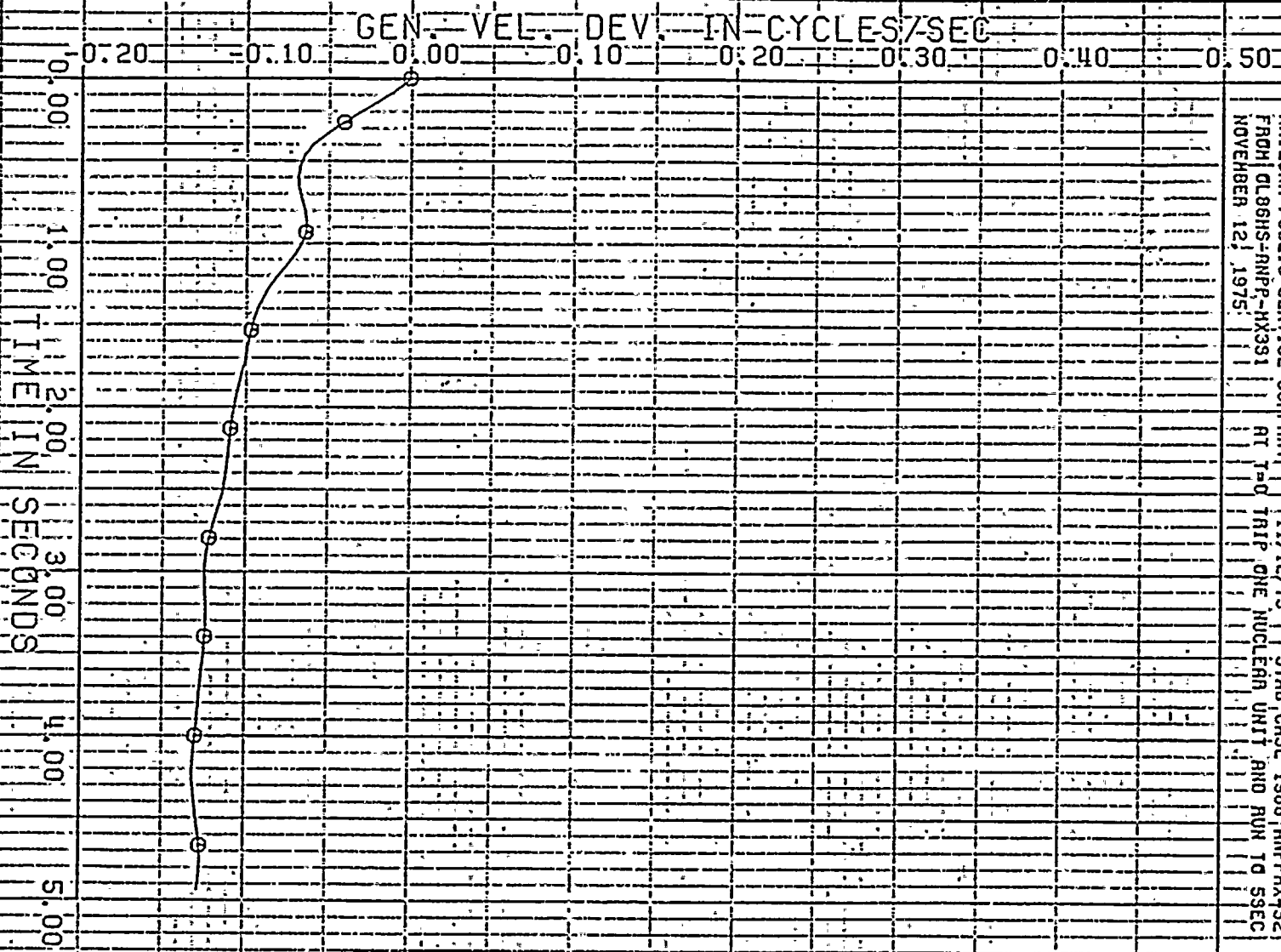
X
 +
 O
 GLENCEN813.81
 AGURFH3 18.01
 HGRHY1CC22.01
 REV C 13.81



PLOT NO: 24
 ARIZONA PUBLIC SERVICE COMPANY
 FROM DL86HS-RNPP-KX391
 NOVEMBER 12 1975
 AT T=0 TRIP ONE NUCLEAR UNIT AND RUN TO 59EC
 11/12/75 STAB: CASE 1986 RNPPHX-92
 STRAIGHTEN UP AND RUN TO 59EC

NVAJ0 126.011
 KALPANG126.011
 R10G 08 18.011

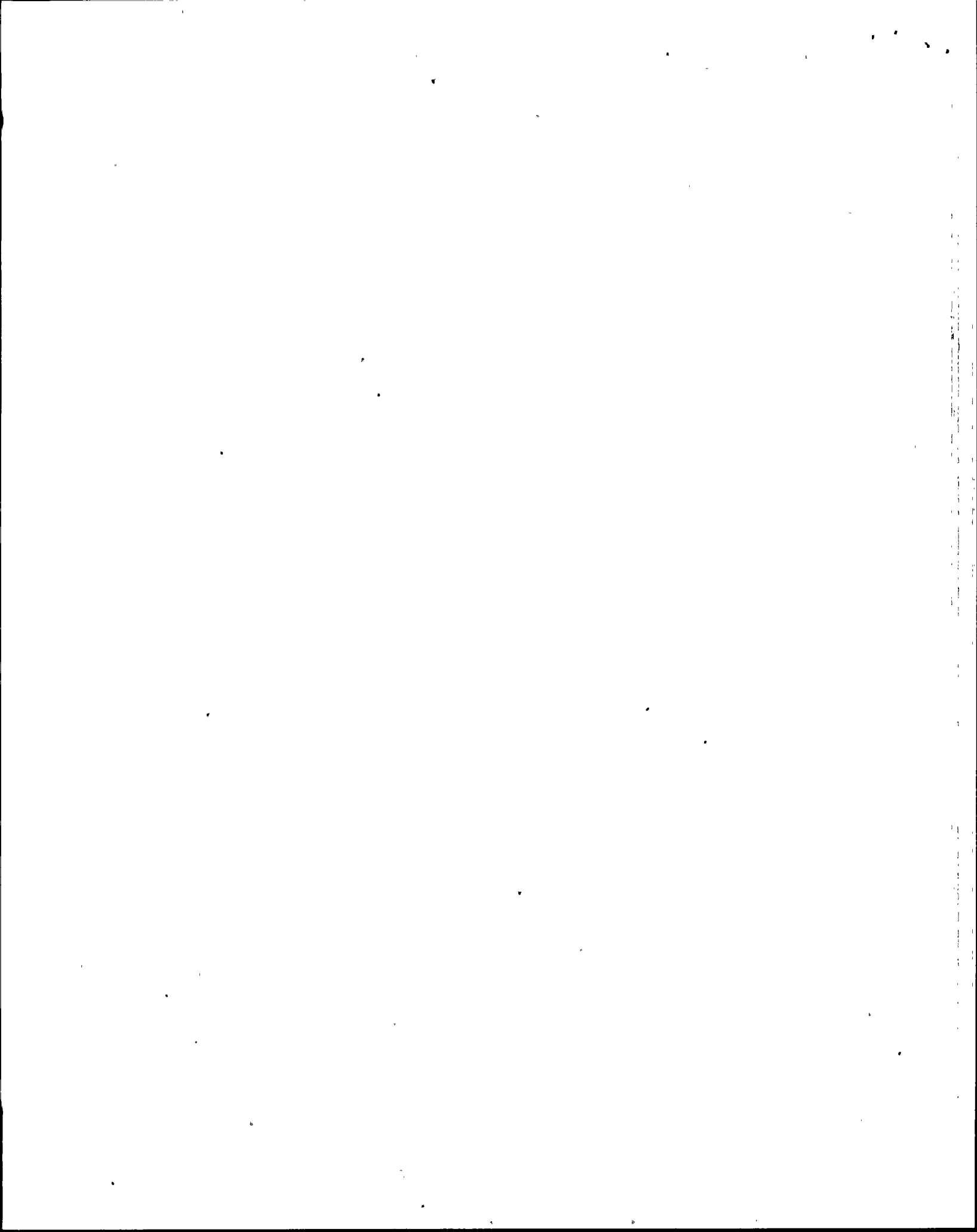


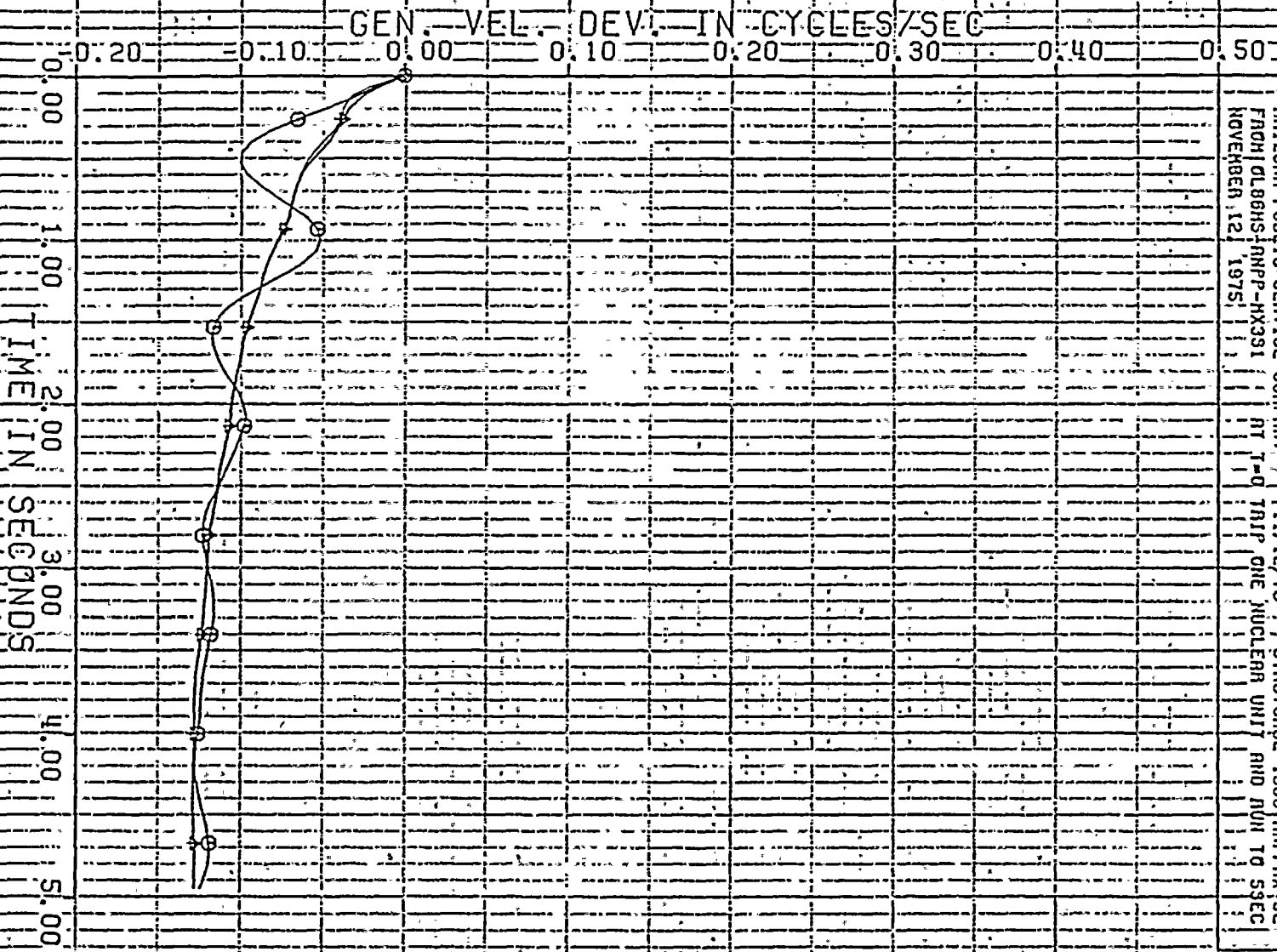


PLOT INCL 23

ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX-52
 FROM OLBHS-ANPE-HX31 AT T=0 TRIP ONE NUCLEAR UNIT AND RUN TO 5SEC
 NOVEMBER 12, 1975

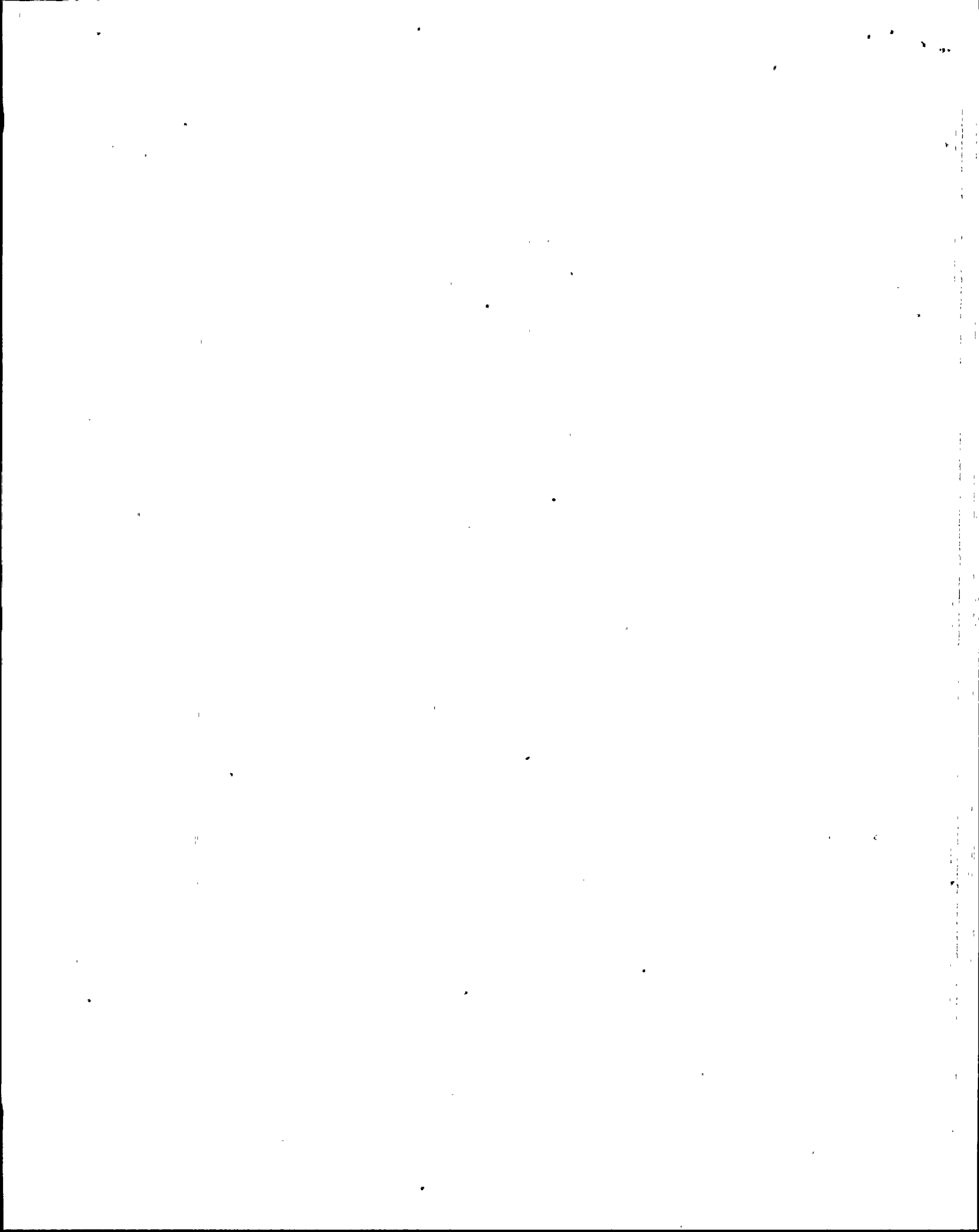
FCNGH/C22.0 U - 0

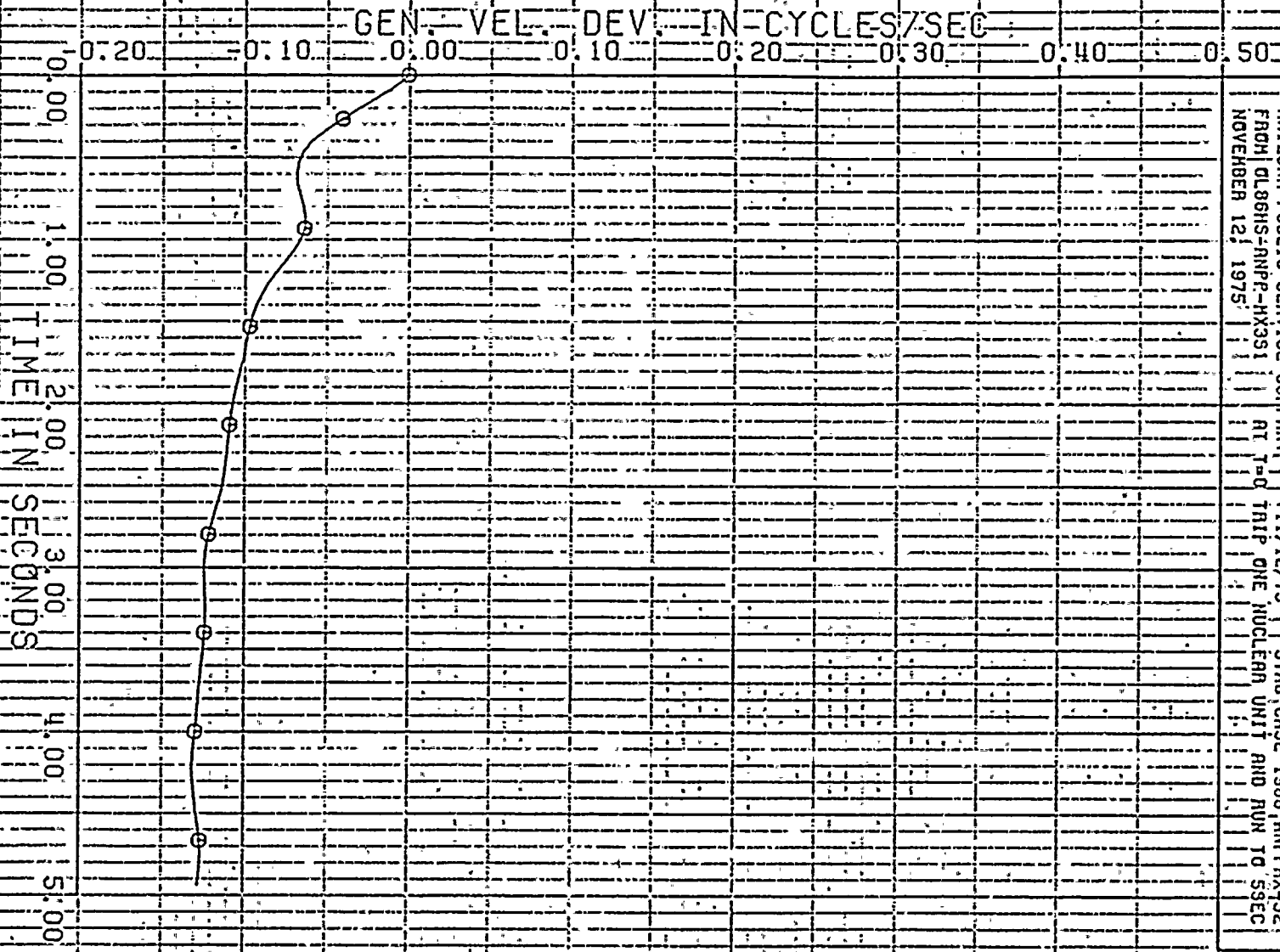




PLOT NO. 24
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX 52
 FACH DLB6HS ANPP-HX391 RT T=0 TRIP ONE NUCLEAR UNIT AND RUN TO 59EC
 NOVEMBER 12 1975

NAVJ06 126.0 1
 KALPANG126.0 1
 RT06 68 18.0 1



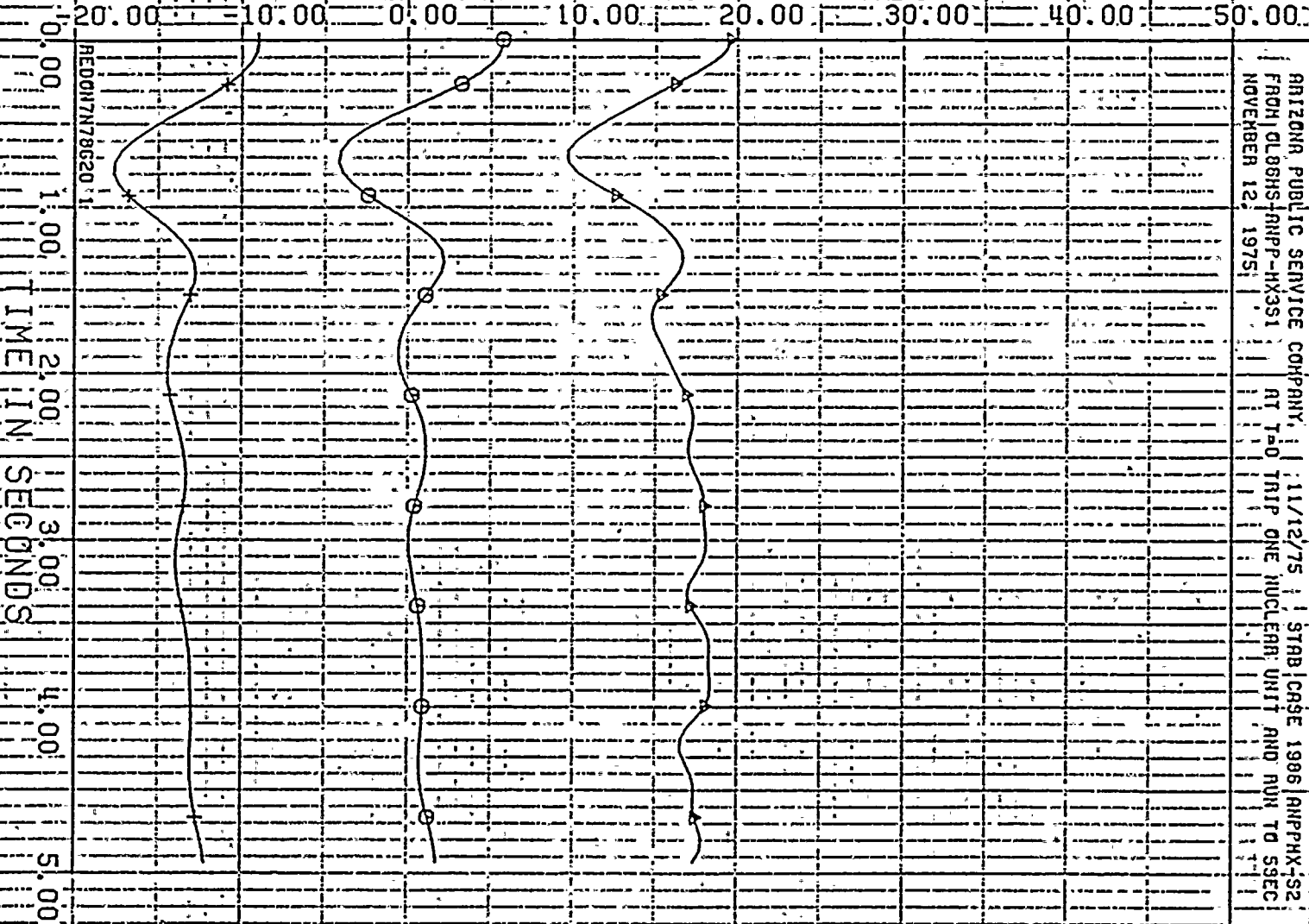


ARIZONA PUBLIC SERVICE COMPANY
 FROM DL68HS-ANPP-HX351 AT 7-00 TRIP ONE NUCLEAR UNIT AND RUN TO 59EC
 NOVEMBER 12, 1975

PLOT NO. 23

FCNGR/C22.0 U - 0

GENERATOR ANGLE IN DEGREES



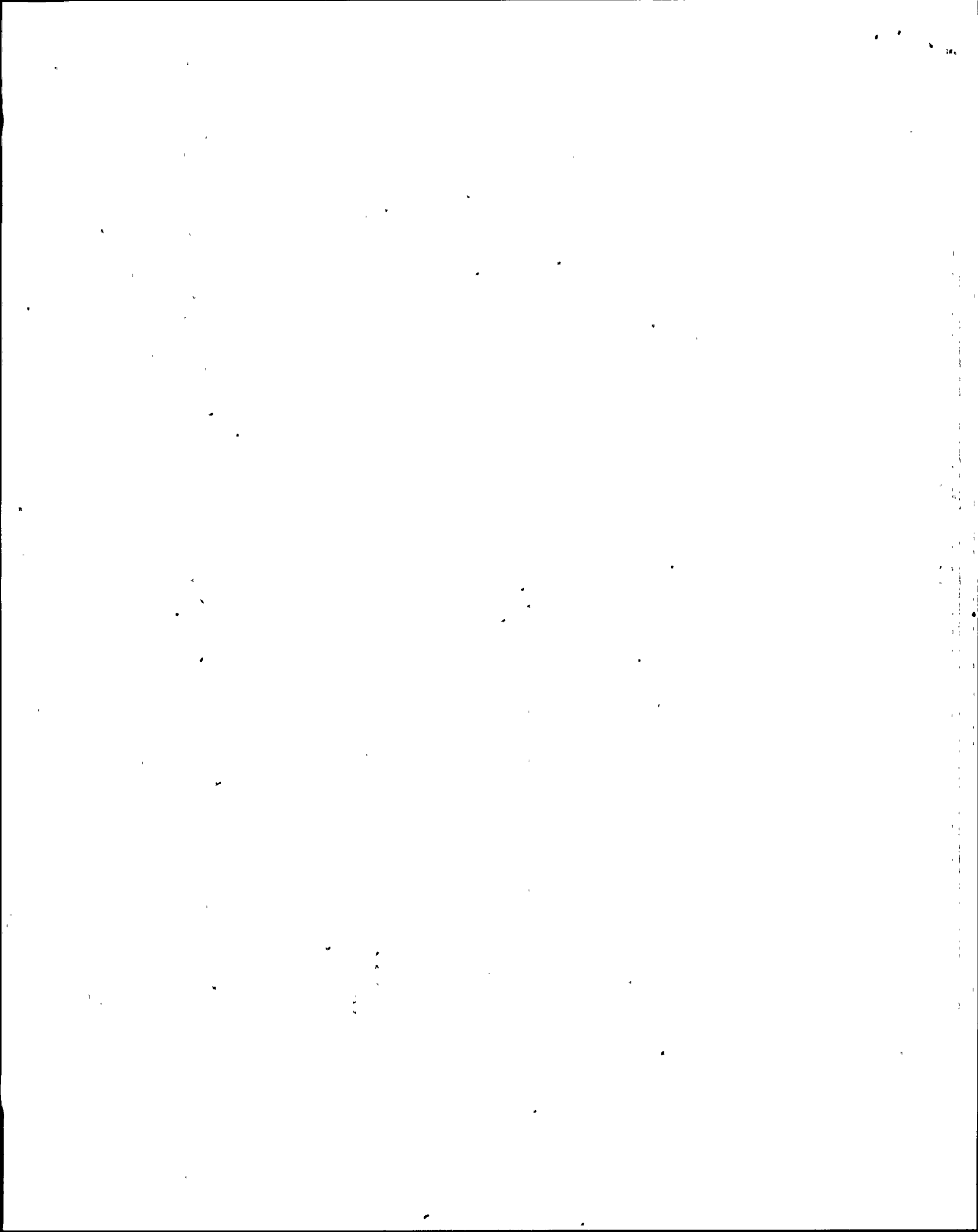
REDON717820 1

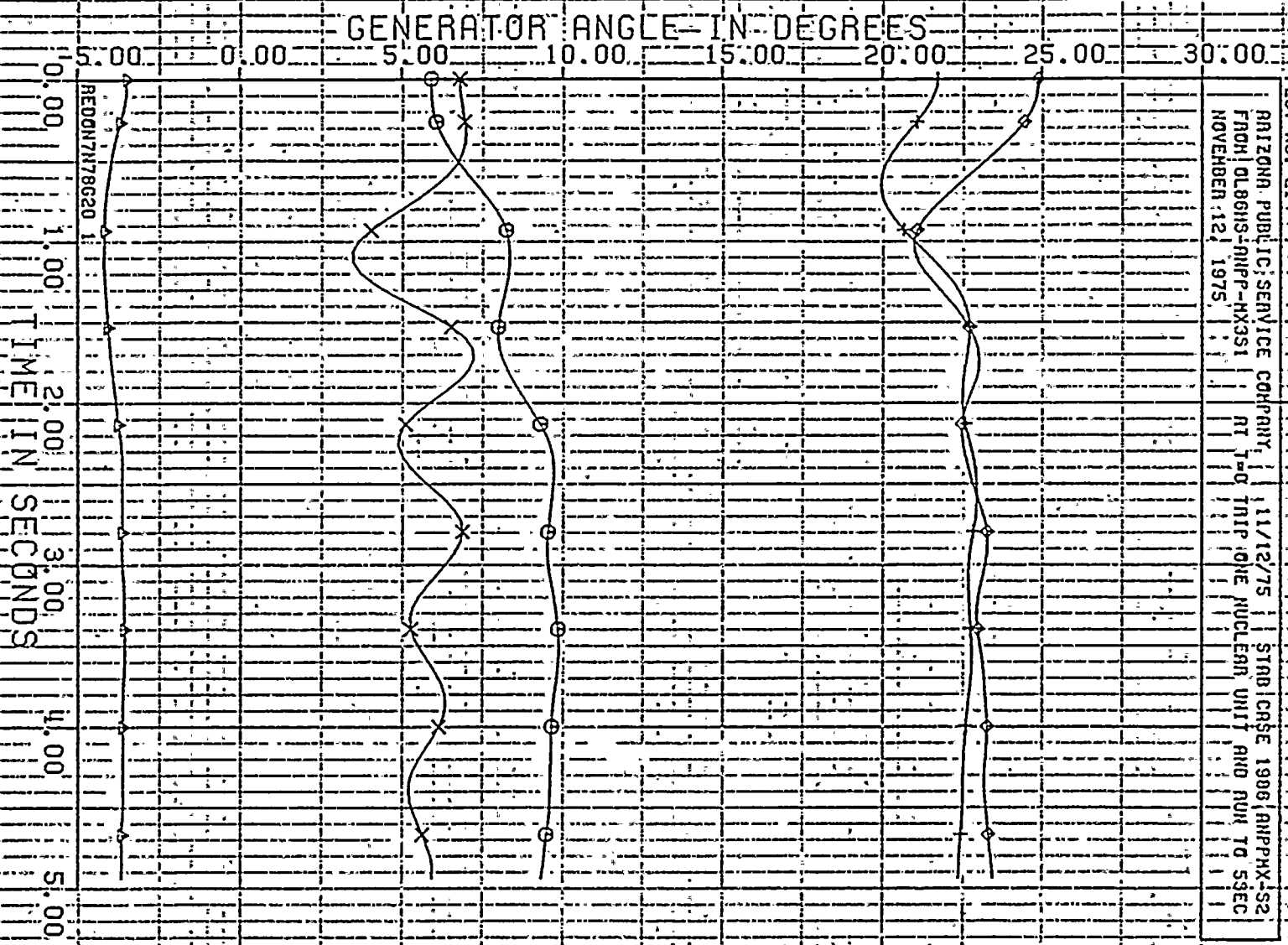
TIME IN SECONDS

ARIZONA PUBLIC SERVICE COMPANY, 11/12/75 STAB CASE 1986 ANPFX-52
 FROM OLSGHS-ANP-HX351 AT T=0 TRIP ONE NUCLEAR UNIT AND RUN TO 5SEC
 NOVEMBER 12, 1975

REV G1 13.8 1 - +
 RPACHE 113.8 1 - A,
 NEHRANGS13.8 1 - O

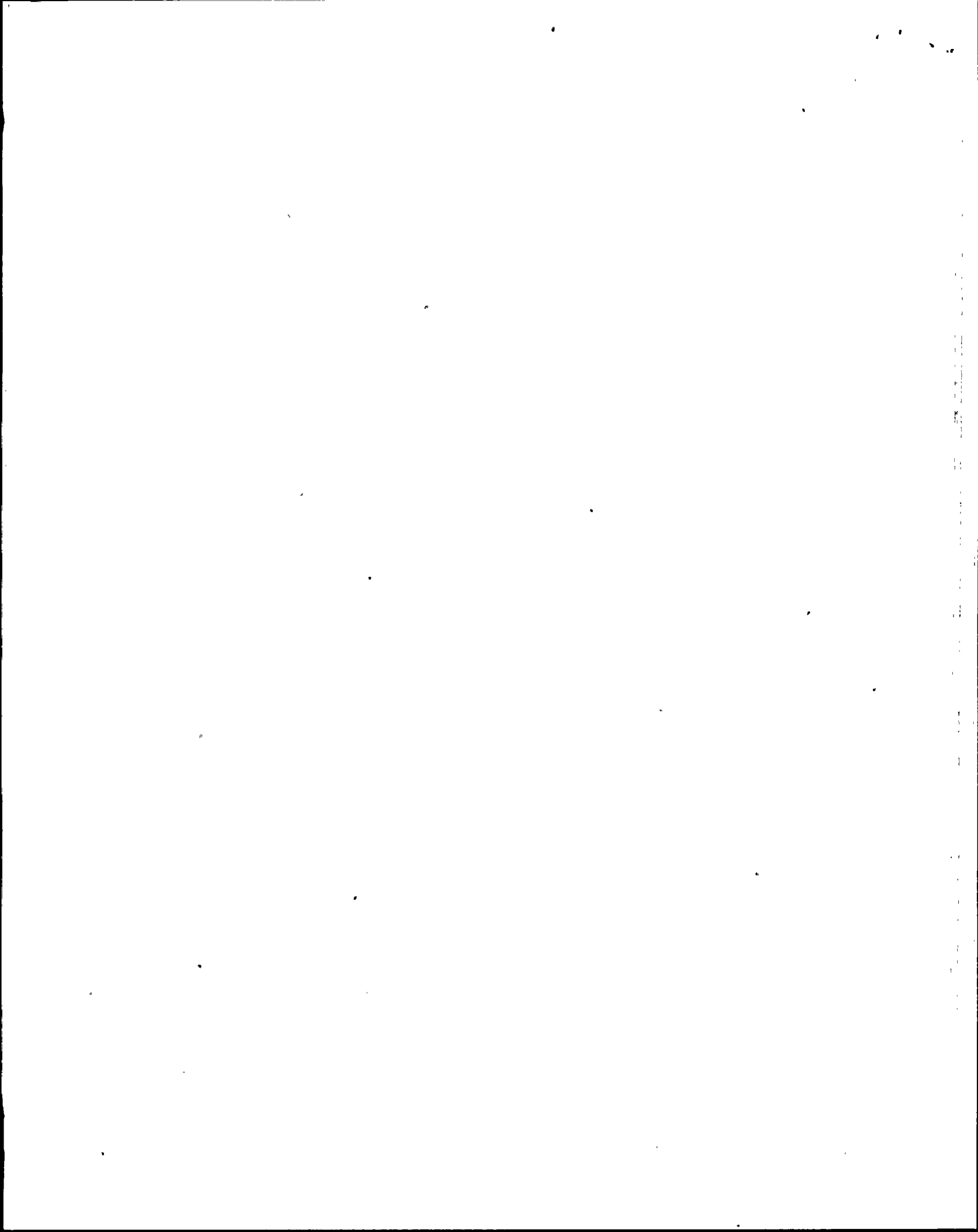
PLOT NO. 22

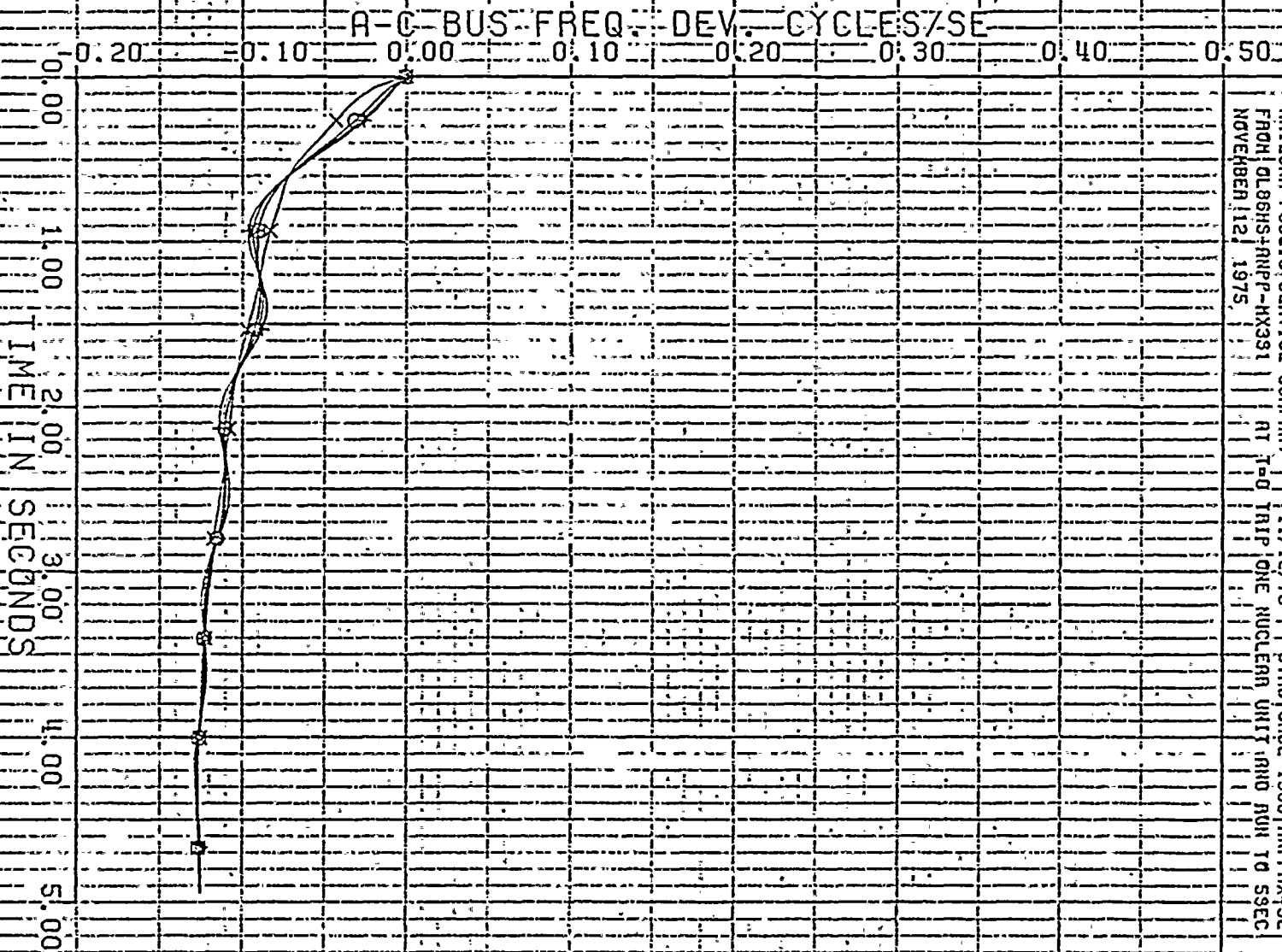




PLOT NO: 21
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CRSE 1906 (ANPRX-S2)
 FROM DL86HS-ANPP-HX391 AT T=0 TRIP ONE NUCLEAR UNIT AND RUN TO SSEC
 NOVEMBER 12, 1975

DIROND1228.0	1	◆
BLOCREEK13.9	1	×
HORNVICC22.0	1	○
RLAHT56G20.0	1	△
SLOND7N322.0	1	○

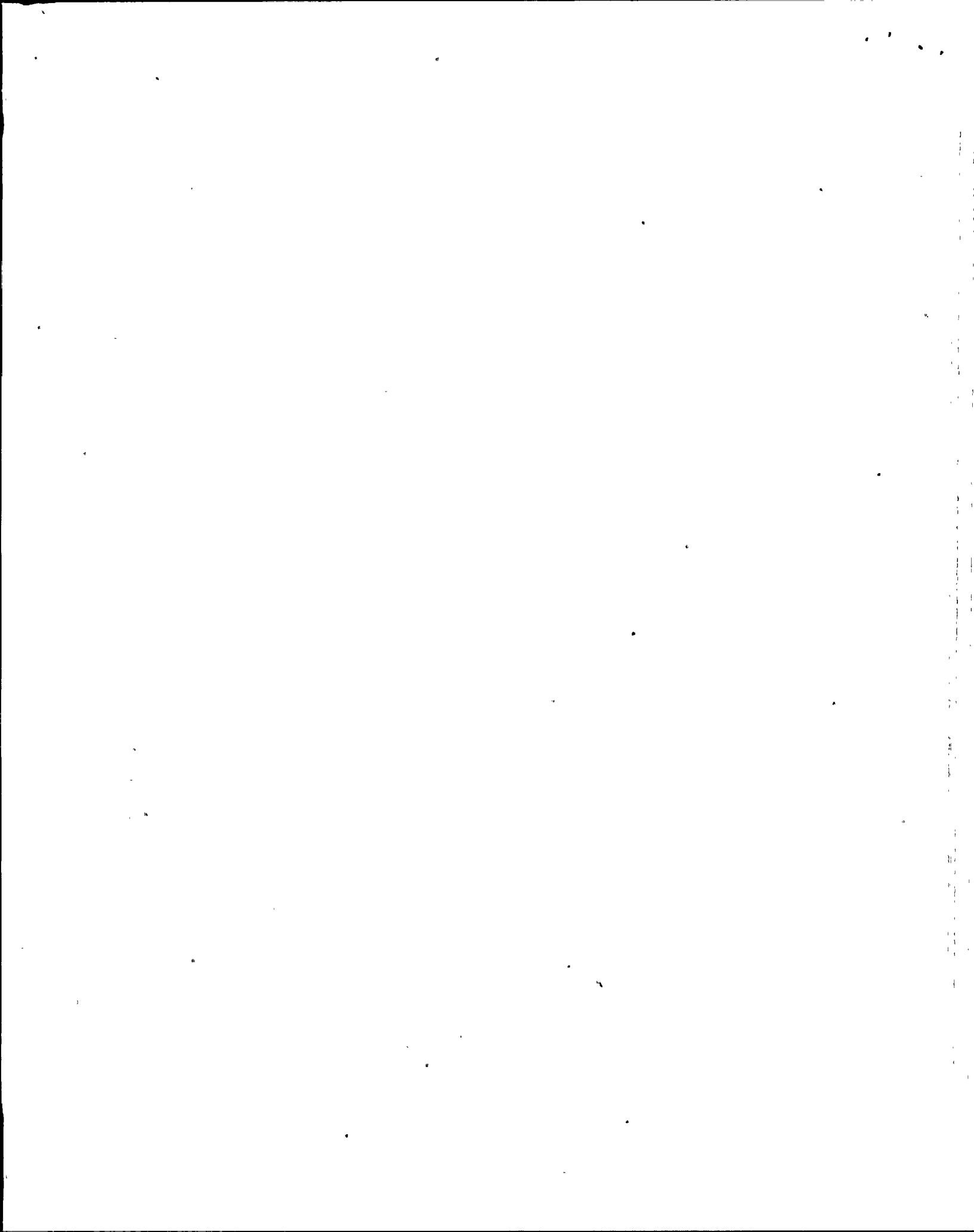


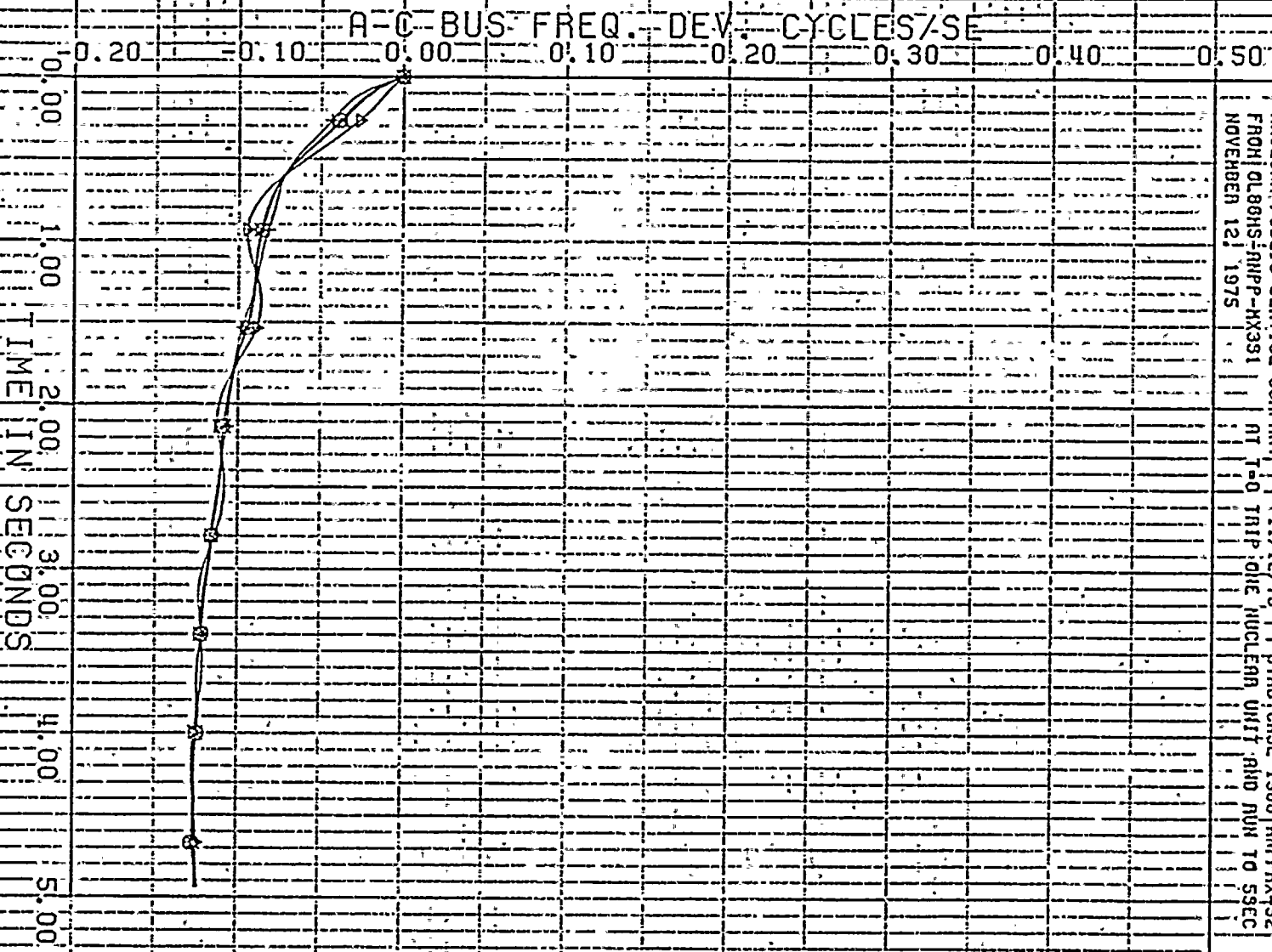


PLOT NO. 20
 ARIZONA PUBLIC SERVICE COMPANY
 FROM DL86HS+ANPP-NX391 AT 1-0 TRIP ONE NUCLEAR UNIT (RND RUN TO 59C
 NOVEMBER 12, 1975
 11/2/75
 STAB CASE 1986 ANPPX-192

HORNE : 500.
 HARGUIDEN : 230.
 PARDEE : 230.
 VINCENT : 500.

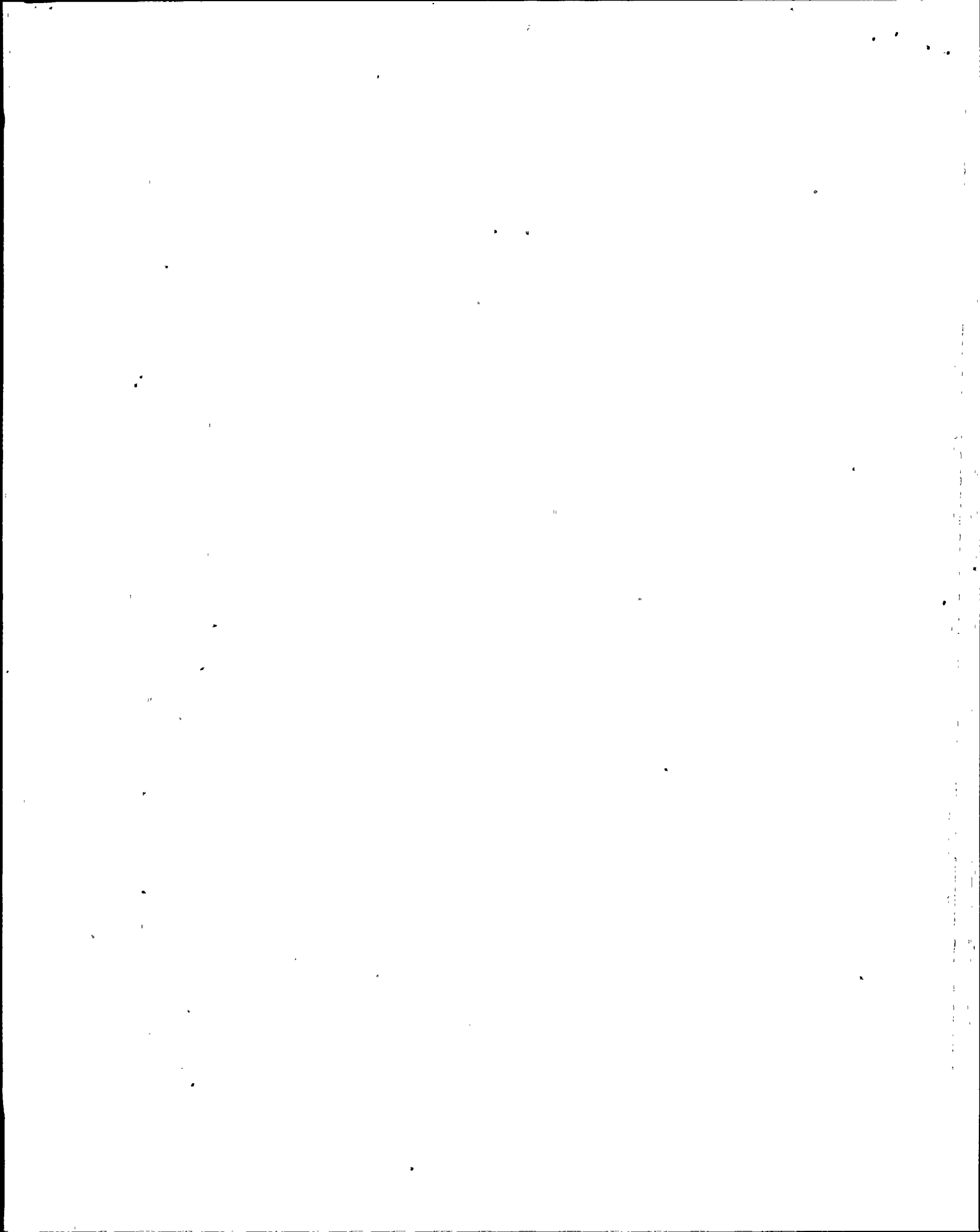
X
 +
 O



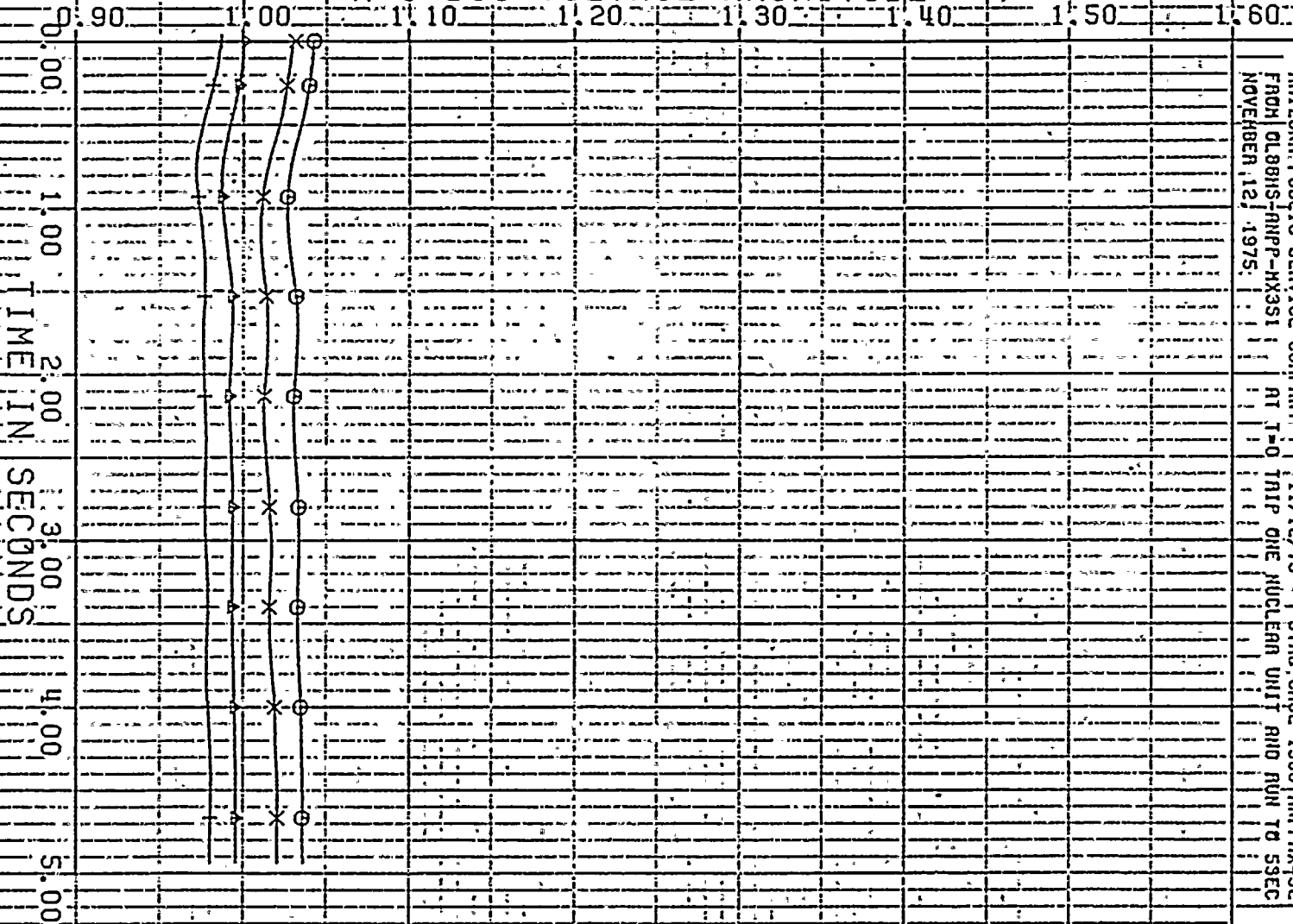


PLDT NO. 19
 ARIZONA PUBLIC SERVICE COMPANY
 FROM: DL86HS-ANPP-KX391
 NOVEMBER 12, 1975
 AT T=0 TRIP OF THE NUCLEON UNIT AND RUN TO 59C
 11/12/75
 STRO. CASE 1986 ANPPX7S2

LUGD 500.
 ELODHD00500.
 PASTOR1R230.
 DEVER5 . 230.
 X
 +
 A
 O

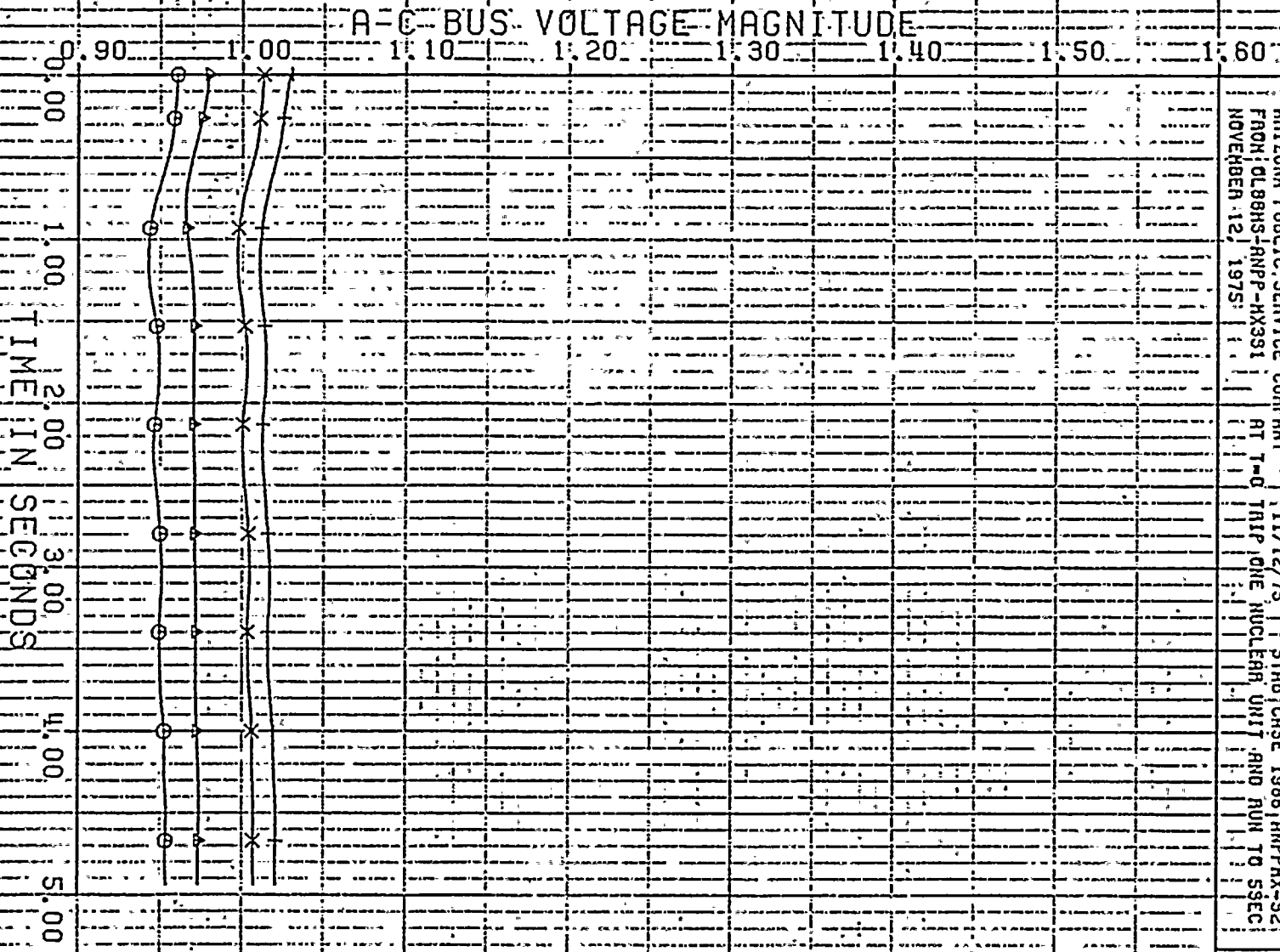


A-C BUS VOLTAGE MAGNITUDE



PLOT NO. 18
 ARIZONA PUBLIC SERVICE COMPANY
 FROM DL89HS-RNPP-HX351
 NOVEMBER 12, 1975
 AT T-O TRIP ONE NUCLEAR UNIT AND RUN TO SSEC
 11/12/75
 STAB CASE 1986 RNPPHX-S2

H0HAYE 500.
 H0CUNDEH230.
 PARDEE 230.
 VINCENT 500.
 X
 A
 O



PLOT NO. 17
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STRD CRSE 1986 RNP-PHX-92
 FROM: DLBBS-RNPF-HX391 AT T=0 TRIP ONE NUCLEAR UNIT AND RUN TO 5SEC
 NOVEMBER 12, 1975

LUGG. ... 500.
 ELDOHRD0500.
 PASTOR1R230.
 DEVERS . 230.

X
 A
 O

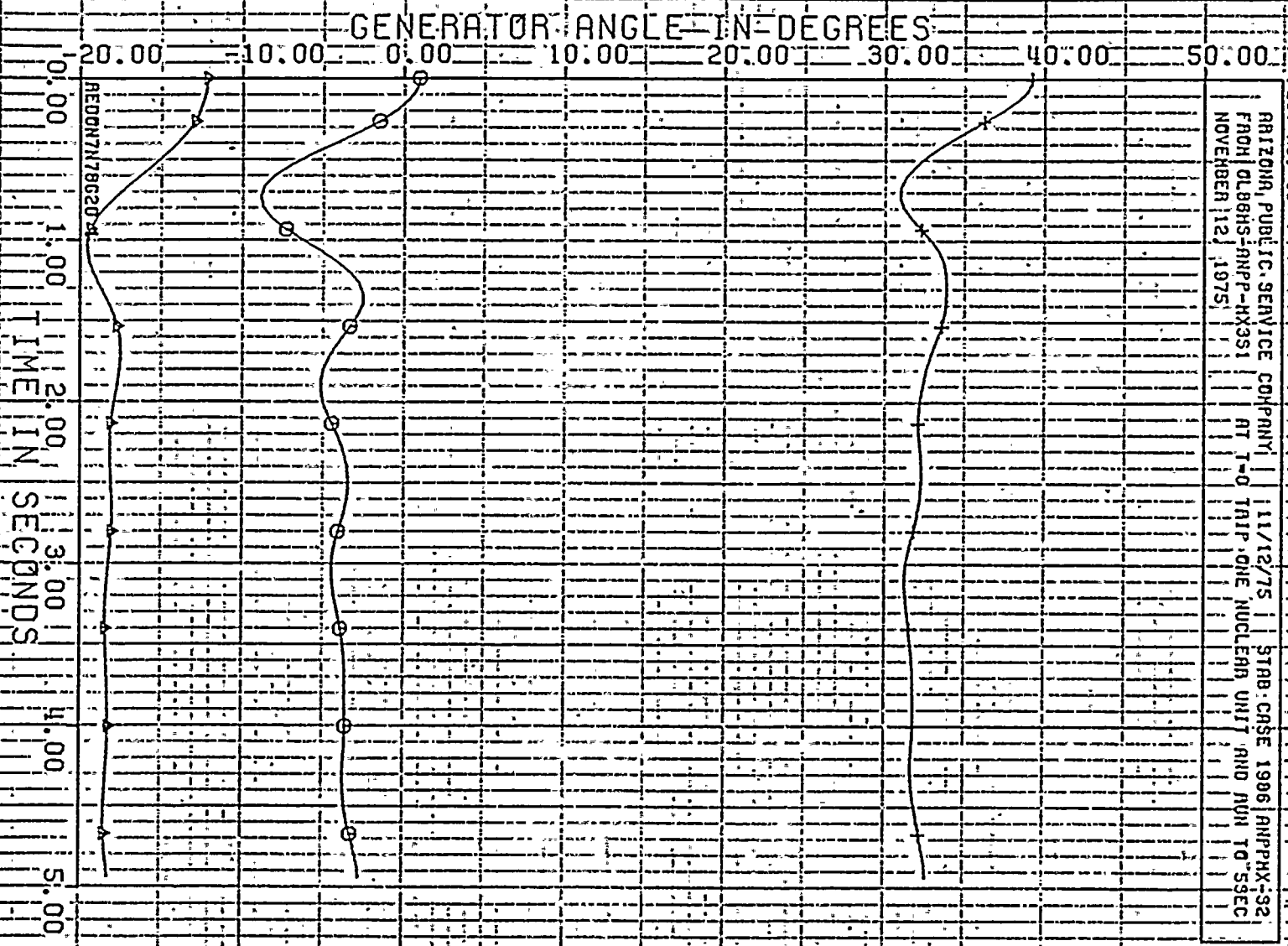
ARIZONA PUBLIC SERVICE COMPANY
 FROM OLBGHS-ANPP-HX351
 NOVEMBER 12, 1975

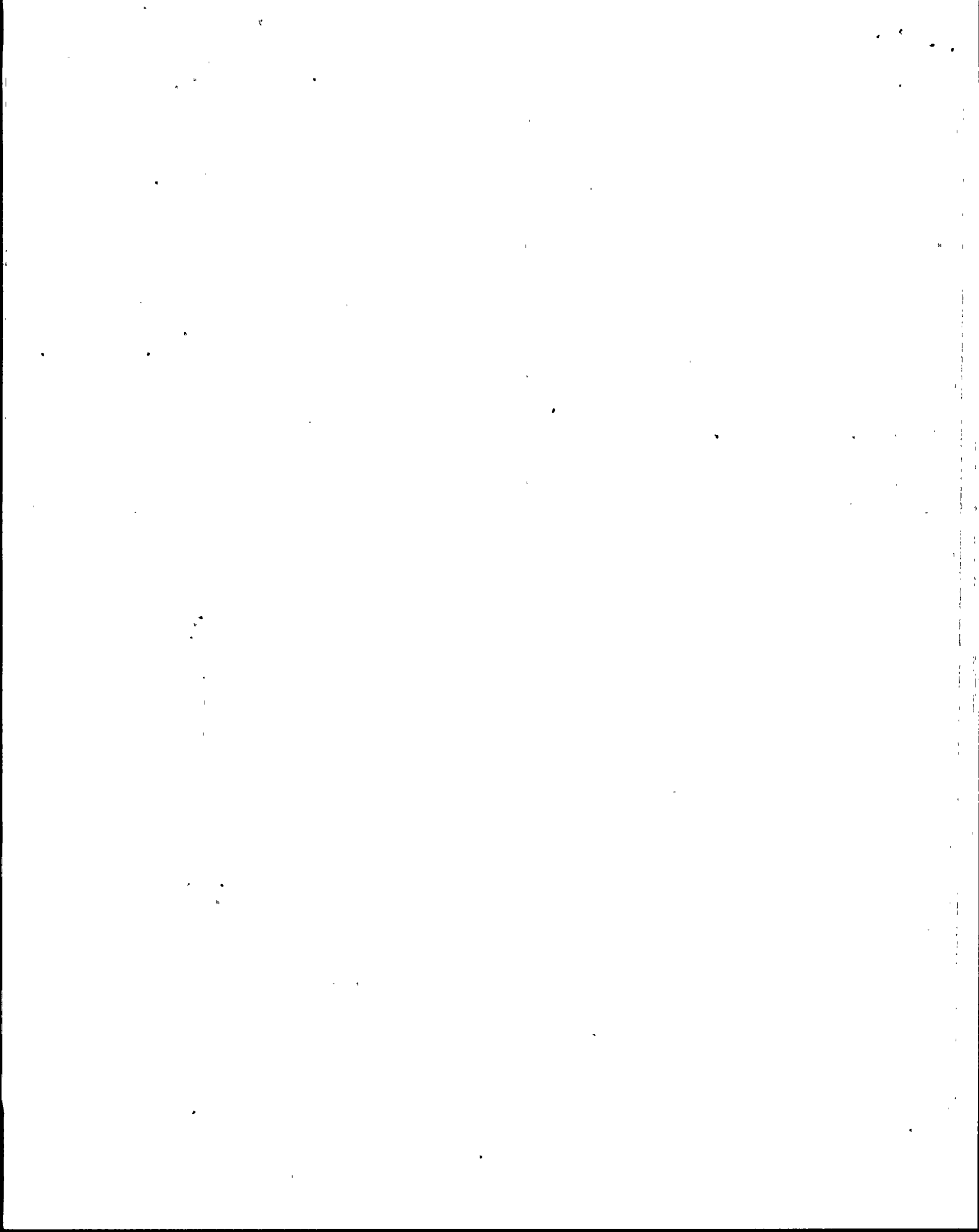
11/12/75
 AT T-O TRIP ONE NUCLEAR UNIT AND RUN TO 59EC

STRB CASE 1986 ANPRX-32

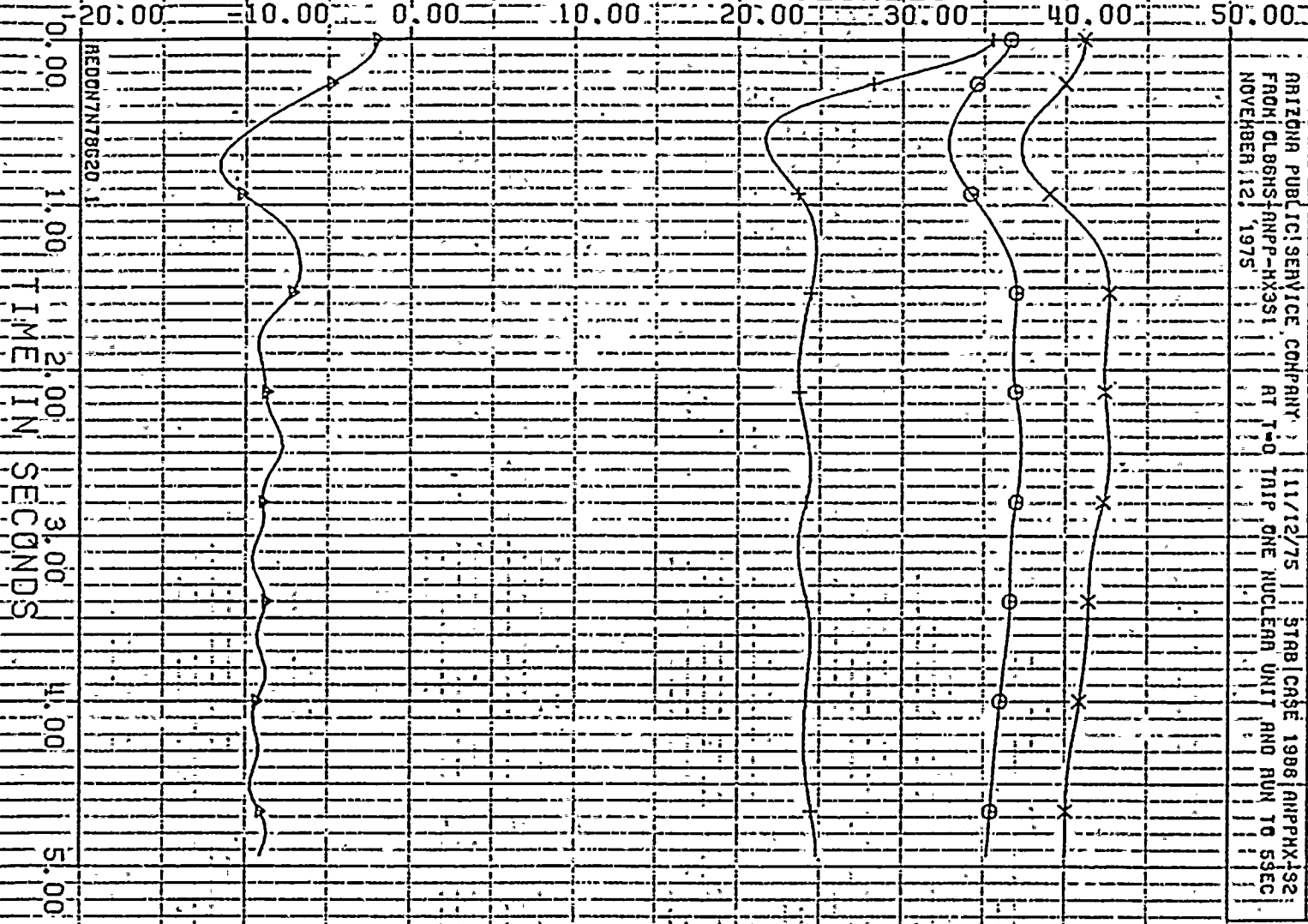
SJURNI CU 22. 1 - +
 REV 69 13.8 1 - +
 R106 68 19.0 1 - +
 O

PLOT NO. 16





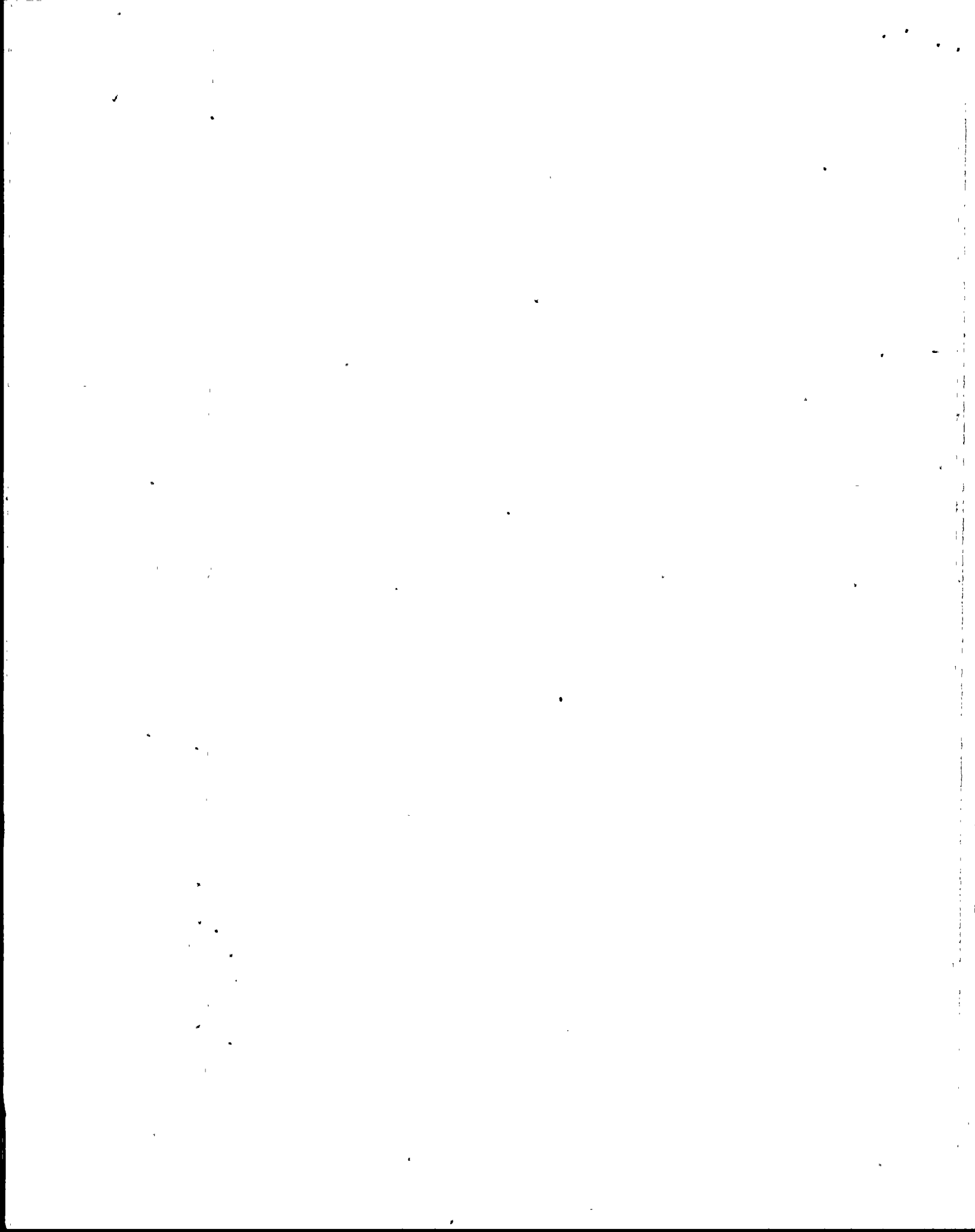
GENERATOR ANGLE IN DEGREES

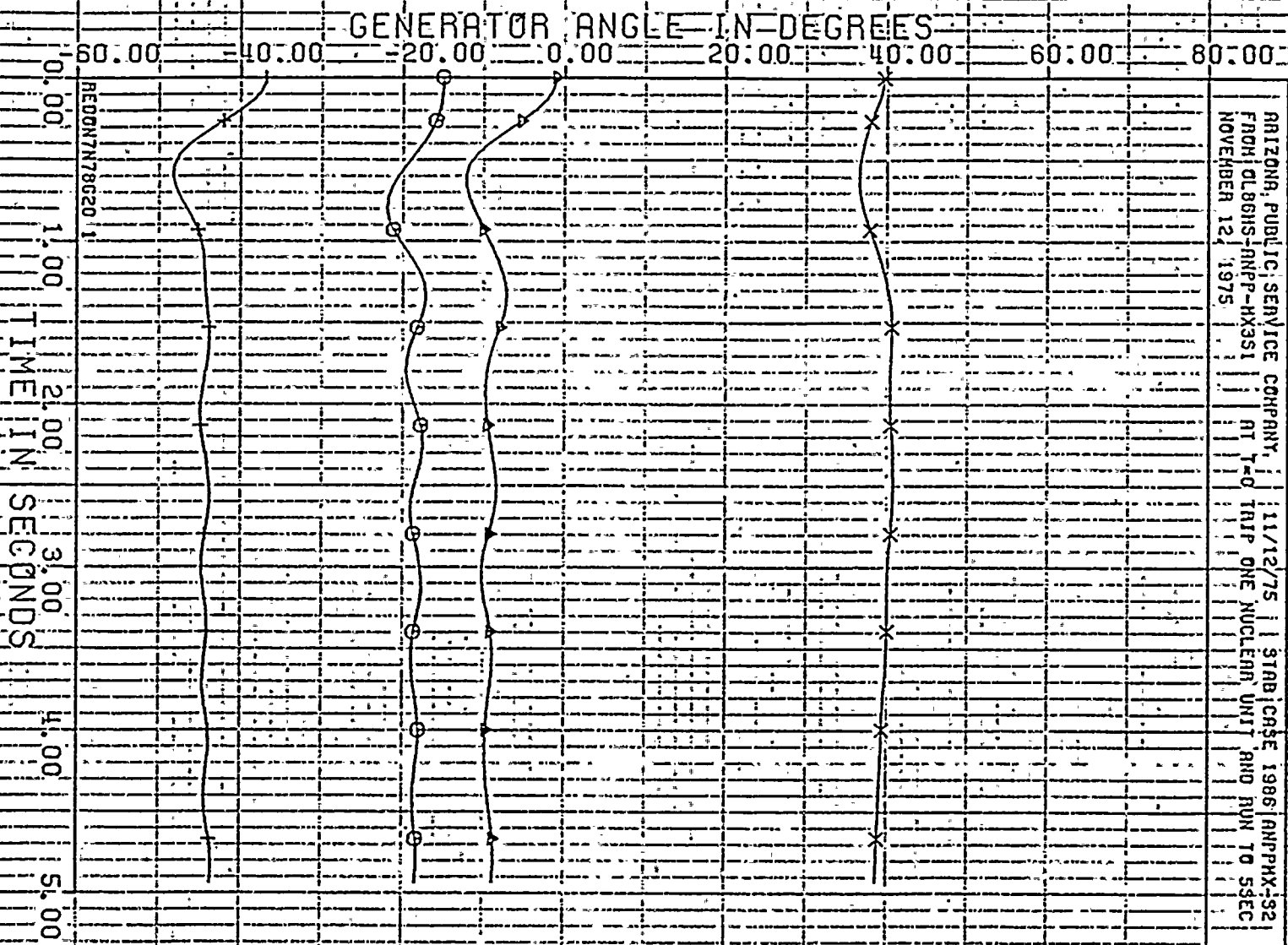


REDON7178620

PLOT NO. 15
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1988 ANPPHX-52
 FROM DB8HS ANP-HX351 AT T=0 TRIP ONE NUCLEON UNIT AND RUN TO 5SEC
 NOVEMBER 12, 1975

FCNON4CC22.0 L - X
 NUCCER2 24.0 I - +
 NEHRNRG313.8 U - ▲
 NBRVJ0 126.0 V - ○





PLOT NO: 14

ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAB CASE 1986 ANPPHX-92

FROTH OL86HS ANPP-HX351 AT T=0 TRIP ONE NUCLEON UNIT AND RUN TO 5SEC

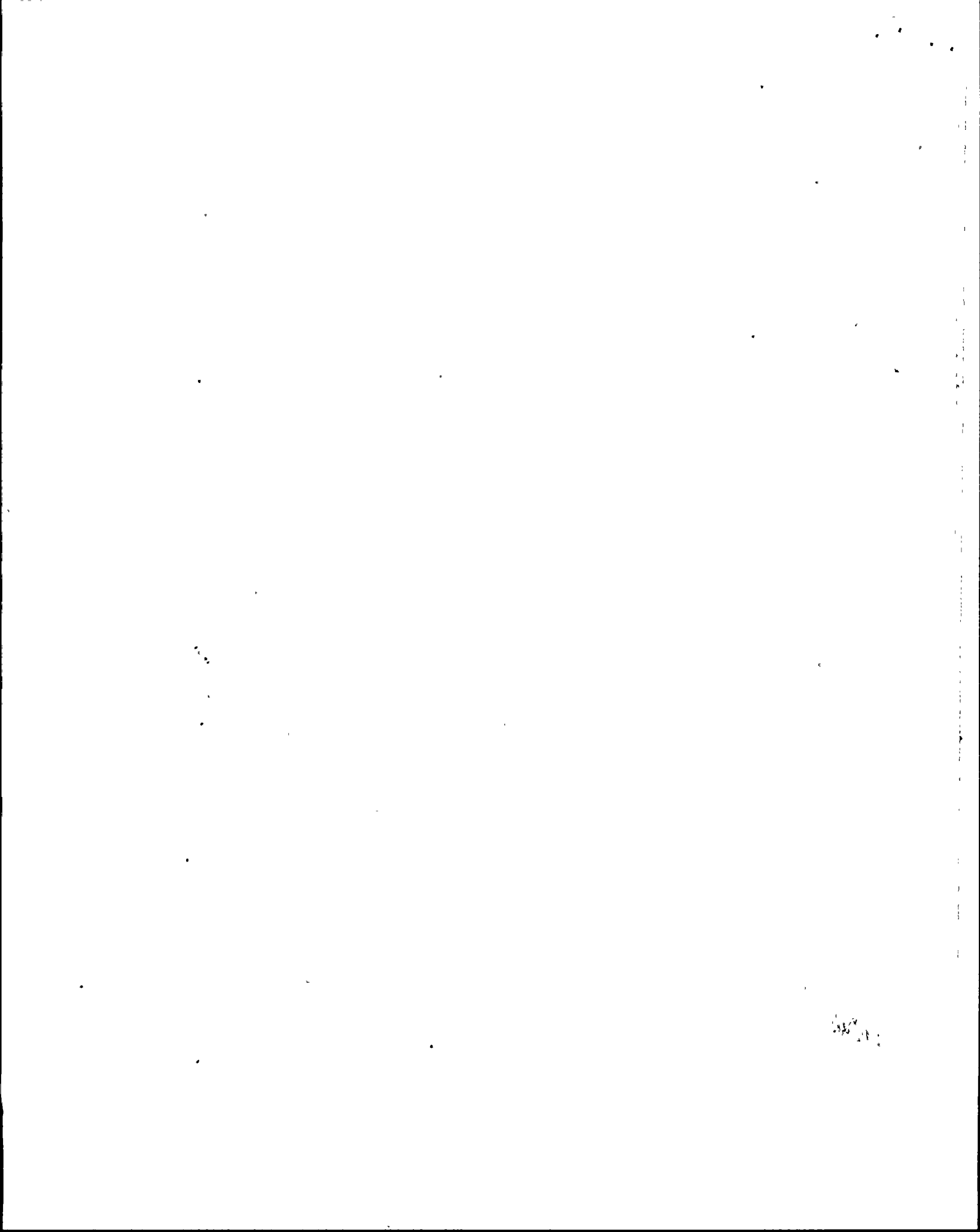
NOVEMBER 12, 1975

KN1PANG128.0 1 - X

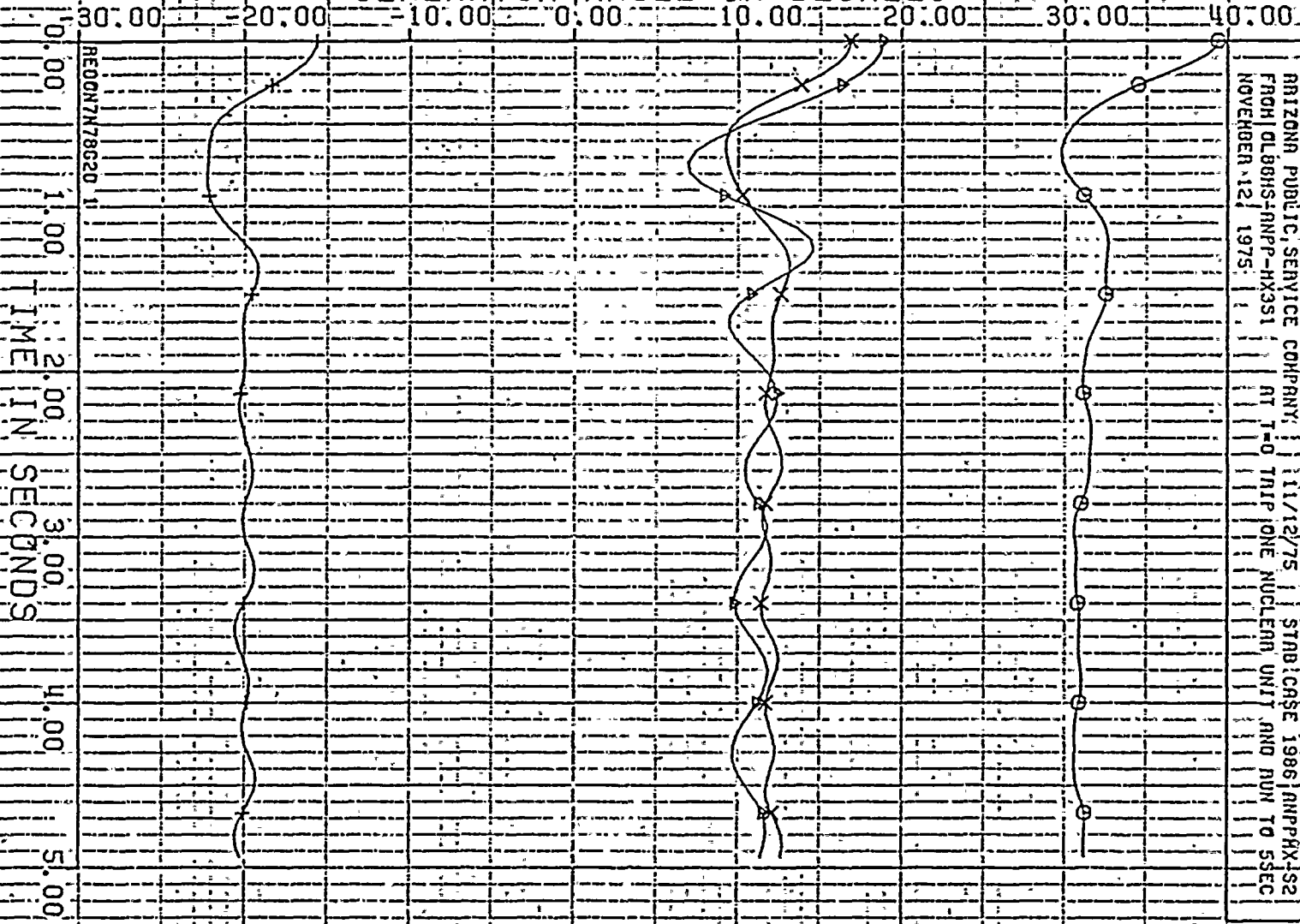
RGURFH3 18.0 1 - A

INVTGE4 18.0 1 - O

HOOVEN 18.5 1 -

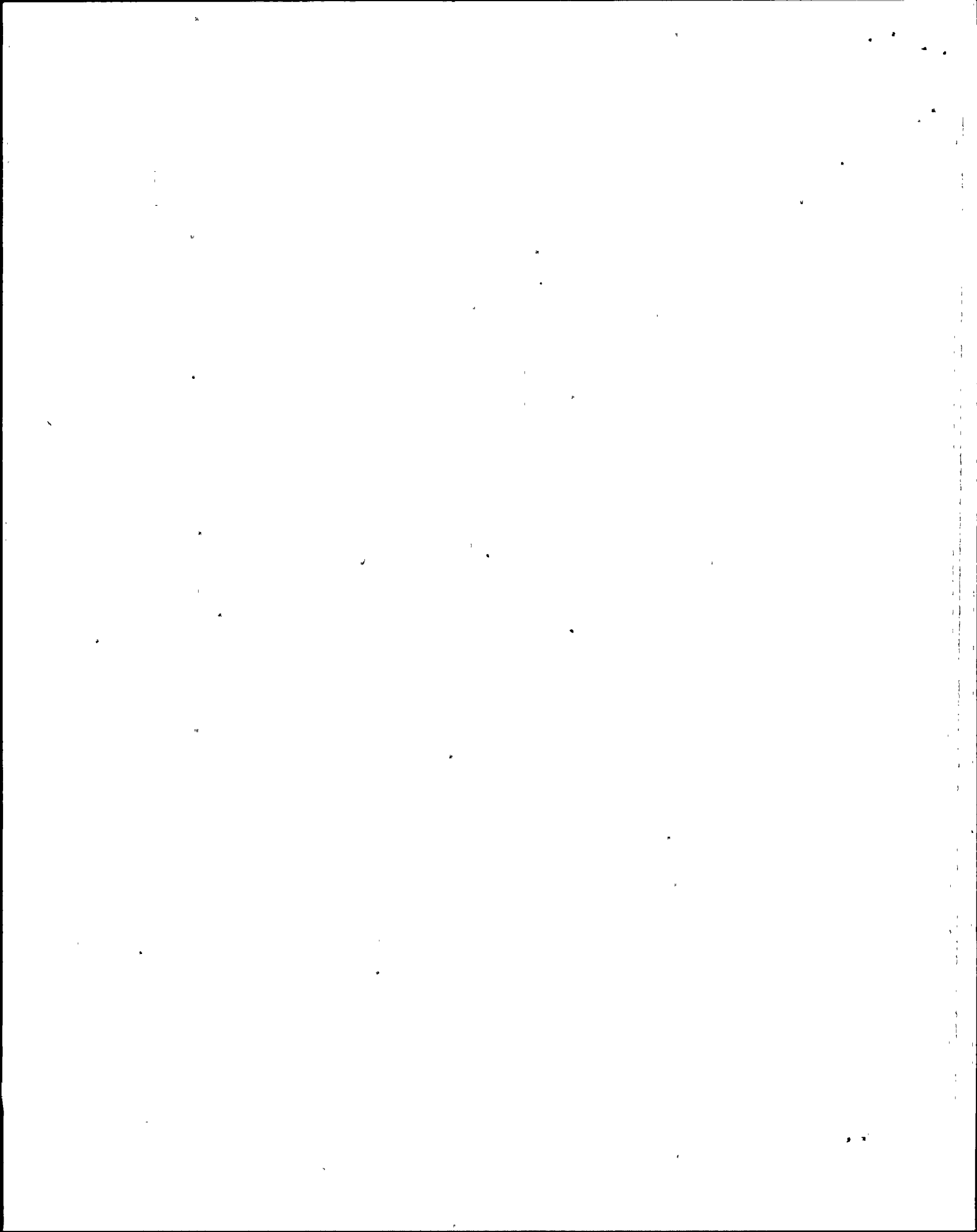


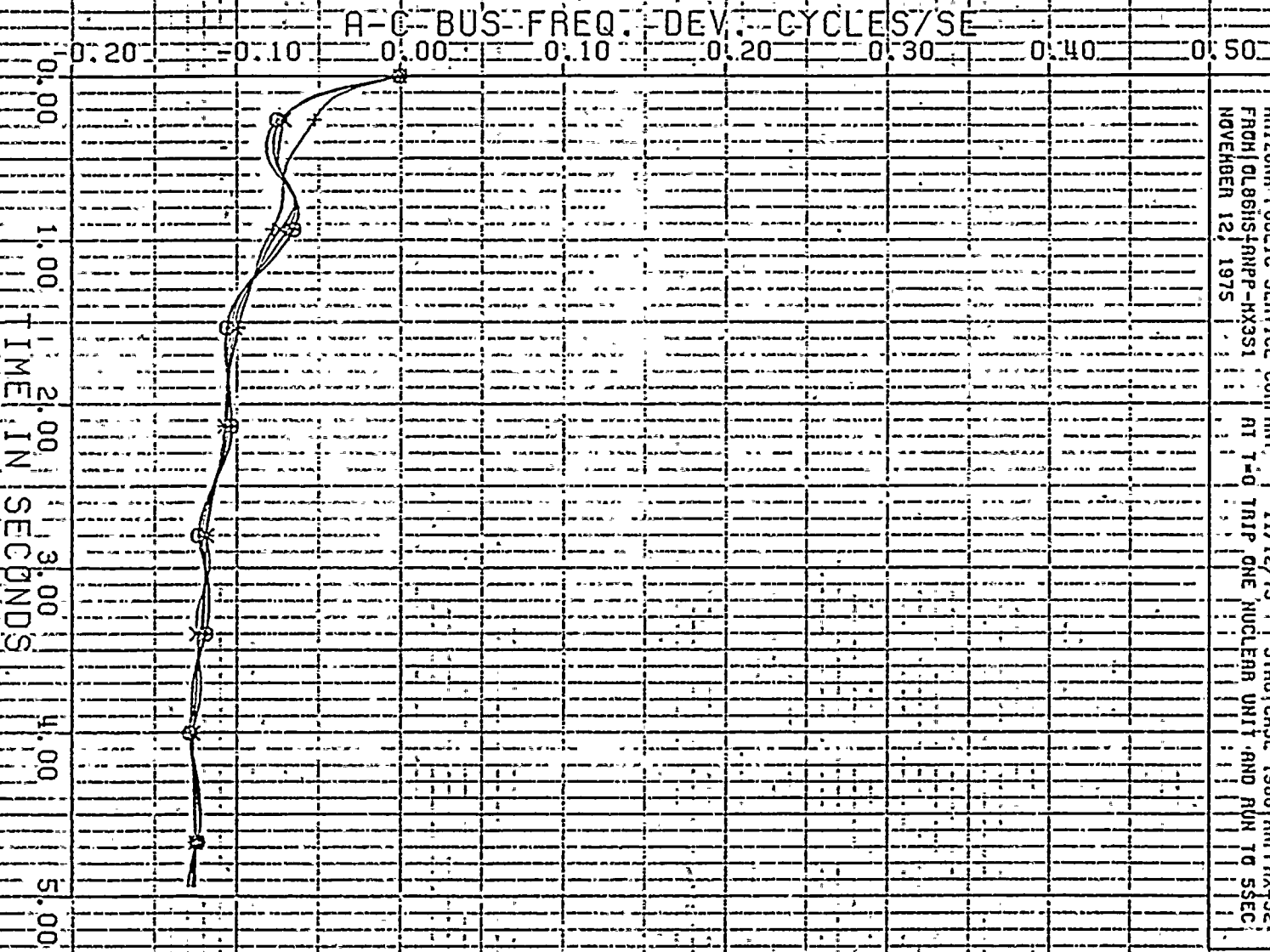
GENERATOR ANGLE IN DEGREES



PLOT NO. 13
 ARIZONA PUBLIC SERVICE COMPANY, 11/12/75, STABCASE 1986/RNPPHX-192
 FROM DLB8HS-RNPP-HX351 AT T=0 TRIP ONE NUCLEON UNIT AND RUN TO 5SEC
 NOVEMBER 12, 1975

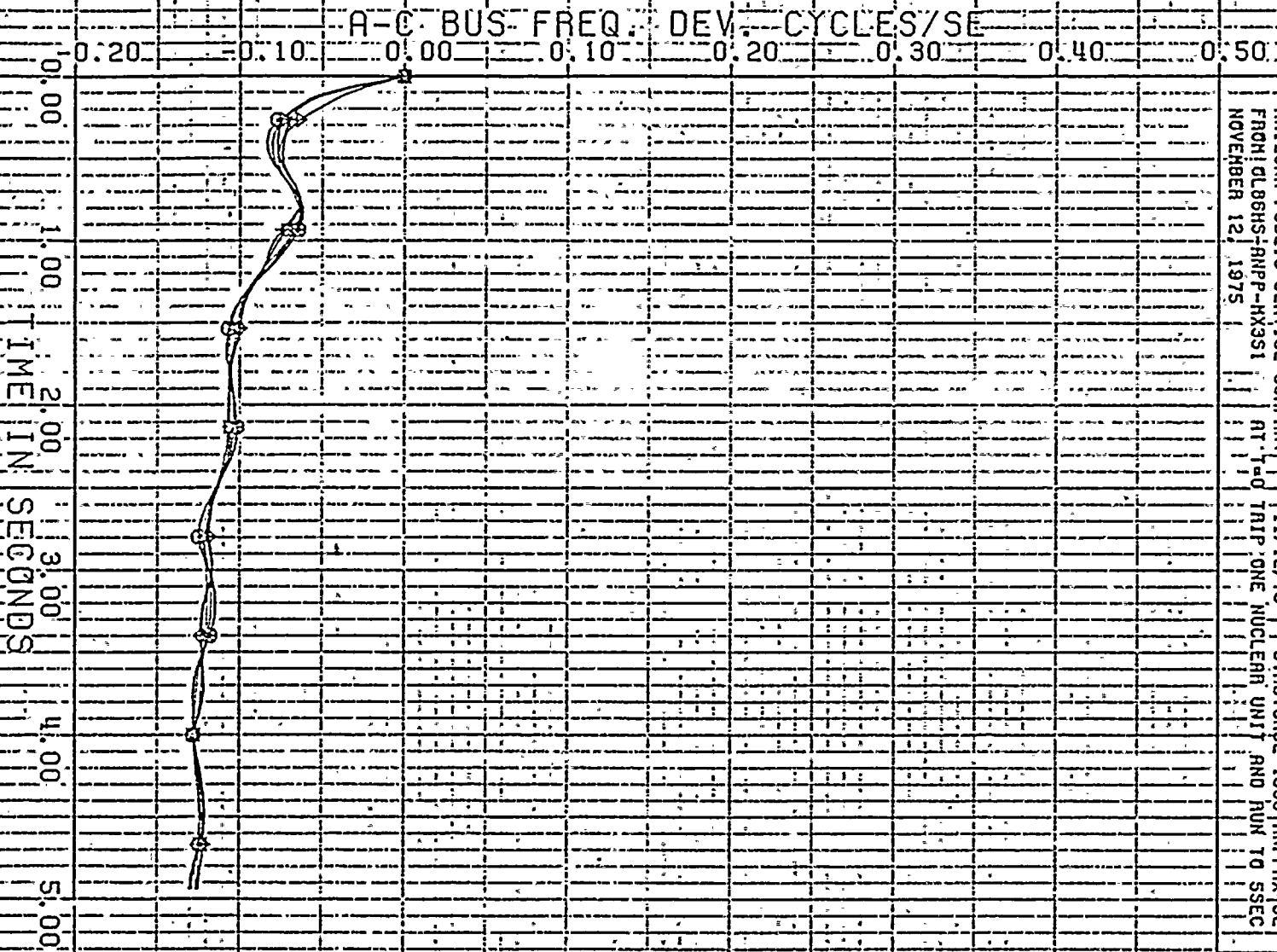
GLENCAN613.8 11 - X
 DRV15 13.8 11 - +
 RPHCHE 213.8 11 - ▲
 CHOLLAY 22.0 11 - ○





PLOT NO. 12
 ARIZONA PUBLIC SERVICE COMPANY
 FROM OLBGHS1ANRP-KX351
 NOVEMBER 12, 1975
 AT T=0 TRIP ONE NUCLEAR UNIT AND RUN TO 5SEC
 11/12/75
 STABICASE 1986 ANP-PHX-521

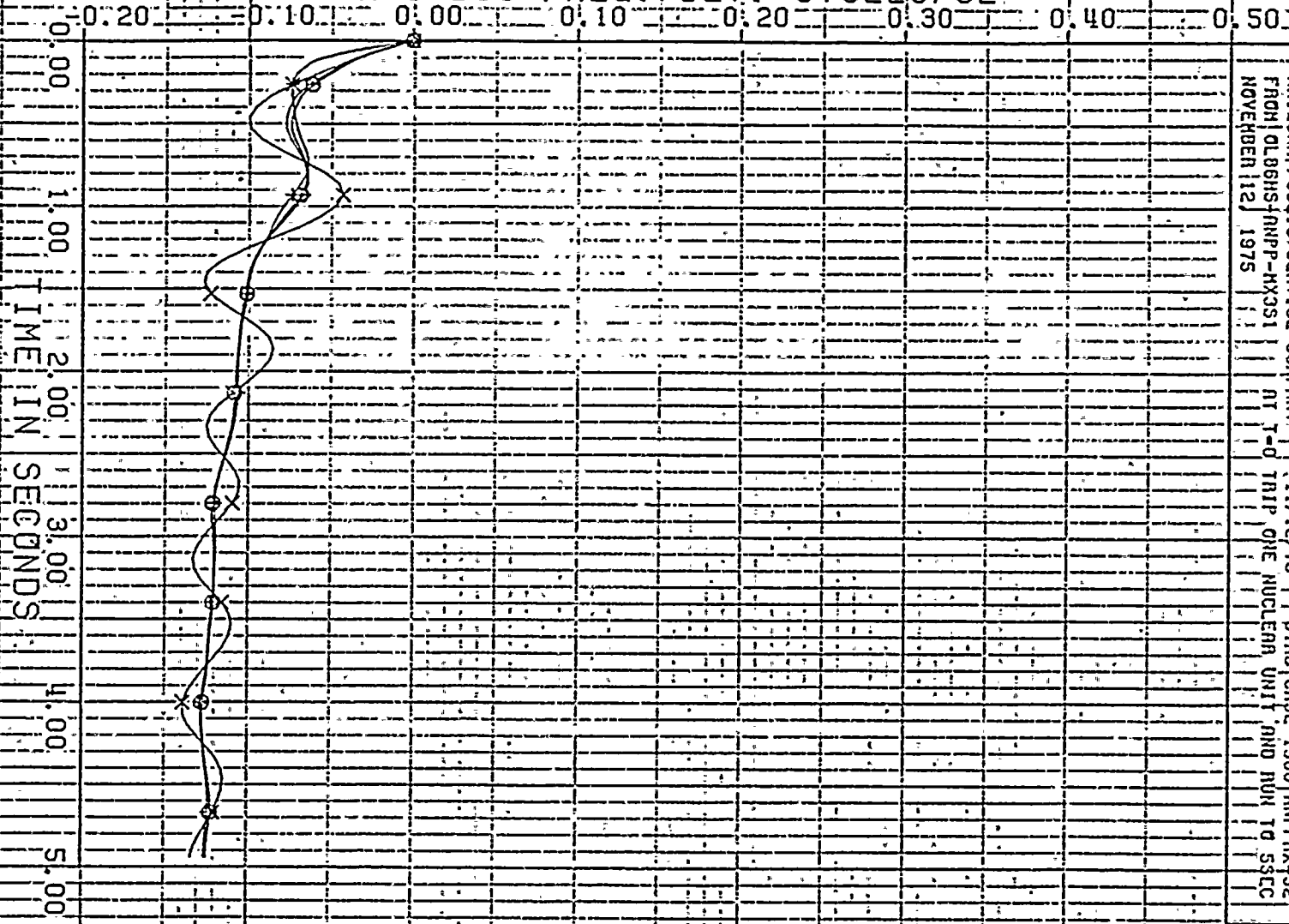
OC0711L0230.
 HOENKBP1500.
 HINCHSTR500.
 VAIL : 138.
 X
 +
 *
 O



PLOT NO. 11
 ARIZONA PUBLIC SERVICE COMPANY
 FROM DL08HS-RNP-KX31 AT 1-0 TRIP ONE NUCLEAR UNIT AND RUN TO SEC
 NOVEMBER 12, 1975

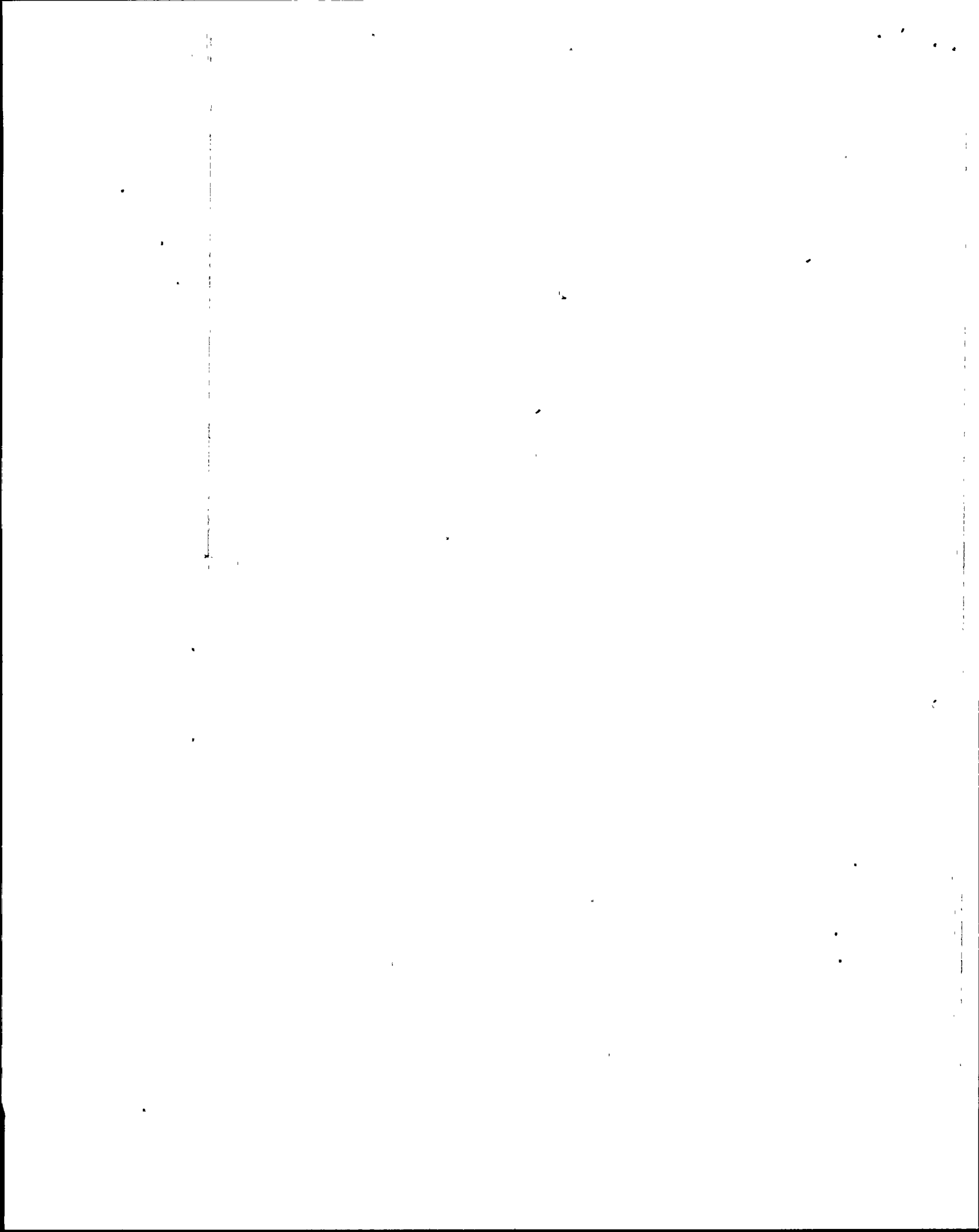
COOLIDGE 115.
 SOUTH 138.
 PIPKAPS 230.
 QJD 115.
 IRVINGTN 138.

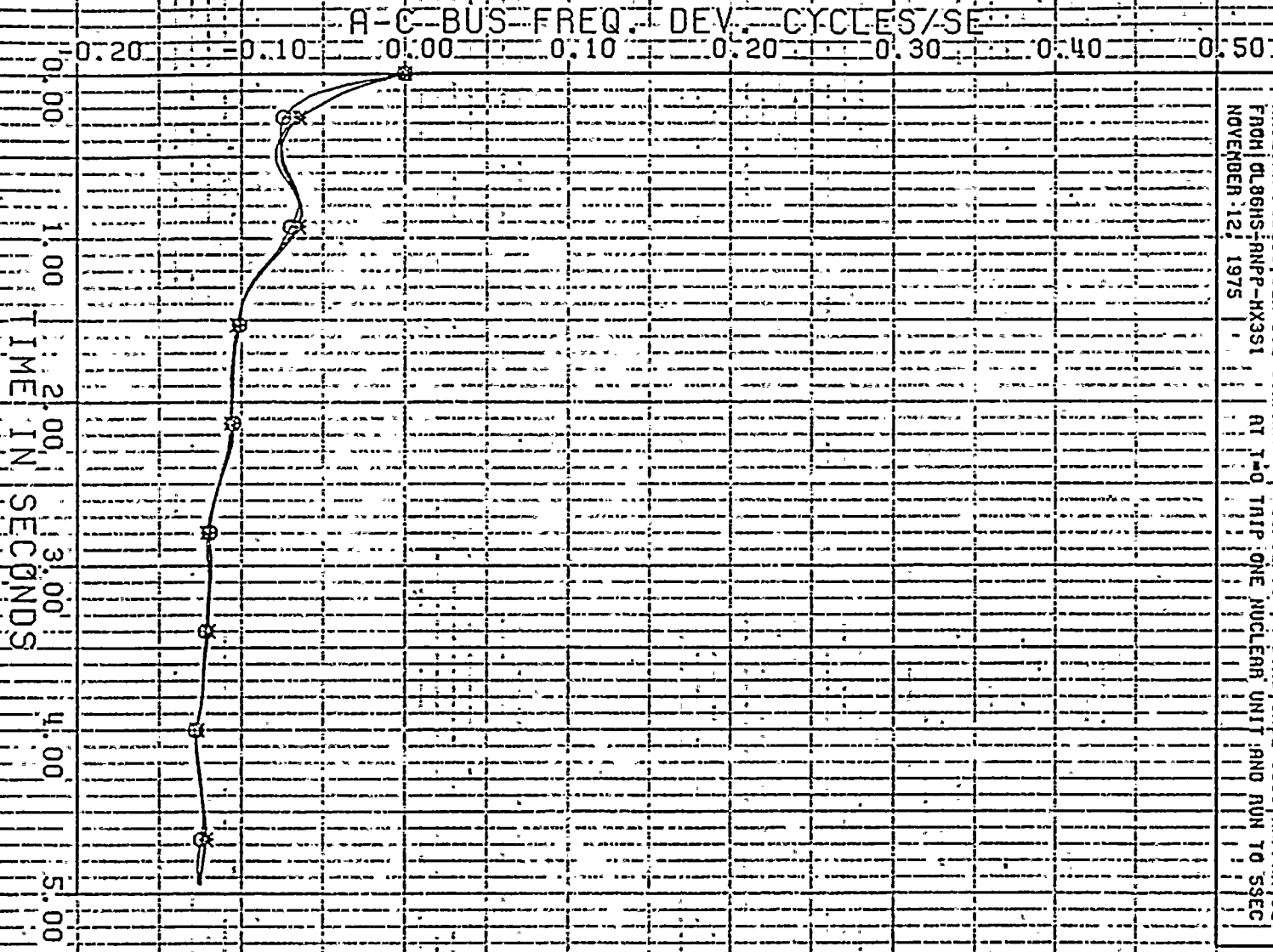
A-C BUS FREQ. DEV. CYCLES/SE



PLOT NO. 110
 ARIZONA PUBLIC SERVICE COMPANY
 FROM OLBGHS+MPP-HXCS1 AT T-O TRIP ONE NUCLEAR UNIT AND RUN TO SSCC
 NOVEMBER 12, 1975
 11/12/75
 STAB CASE 1986 NMPHX-52

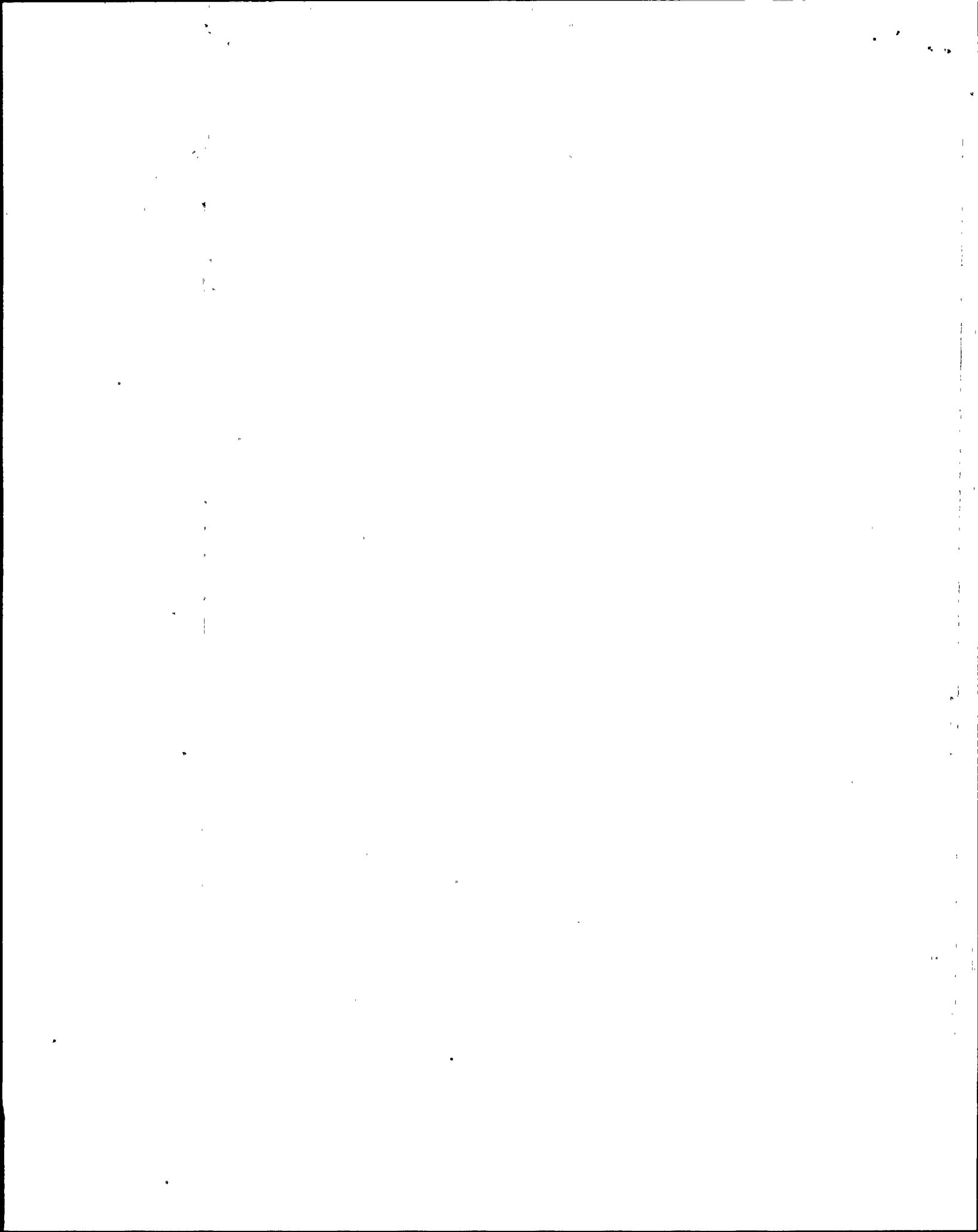
APACHE 230.
 NUCLEA 500.
 NONTON 345.
 FOURCHN345.
 X
 +
 A
 O



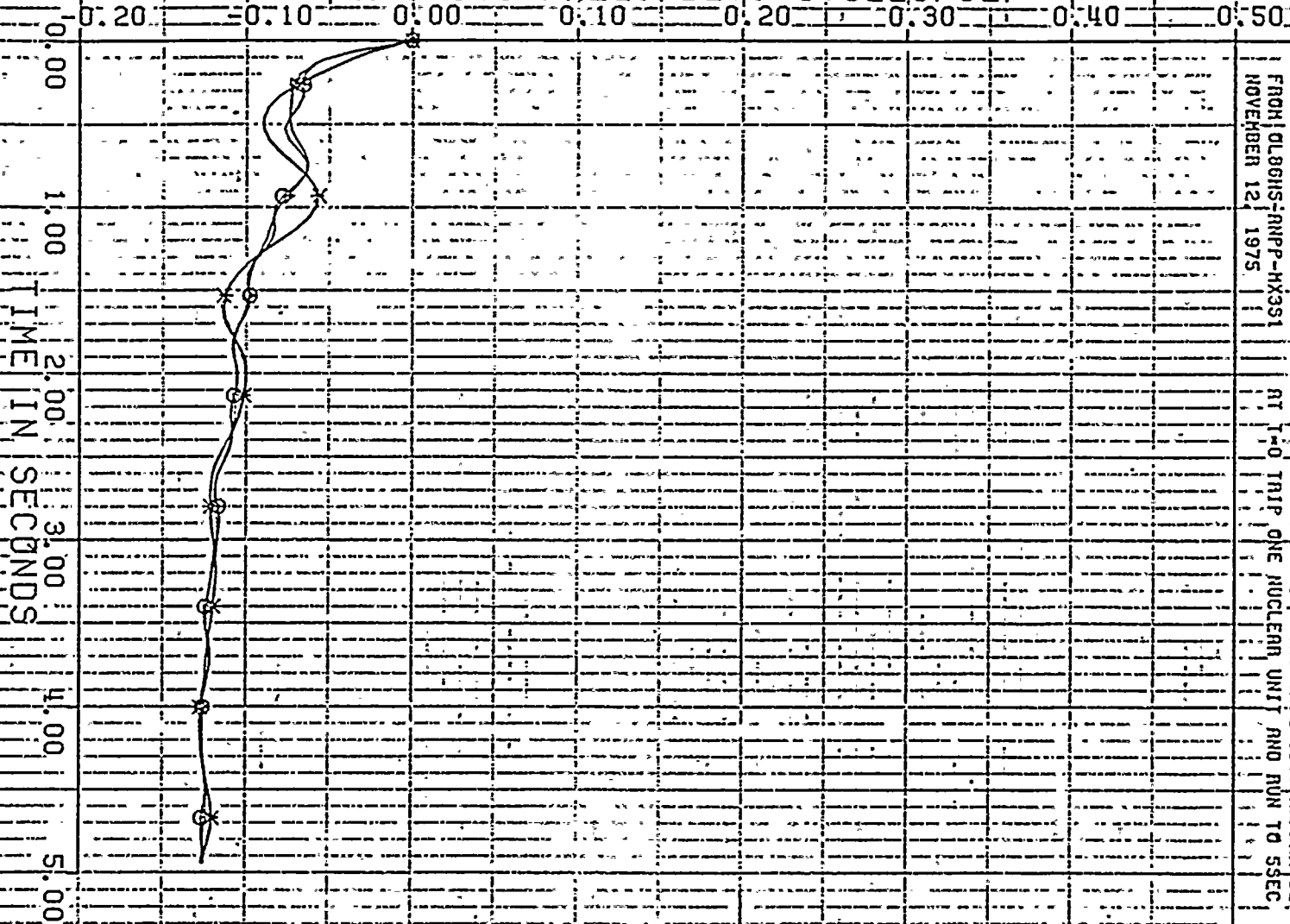


PLOT NO. 9
 ARIZONA PUBLIC SERVICE COMPANY
 FROM DL86HS-RNPP-HX3S1
 NOVEMBER 12, 1975
 AT 1-0 TRIP ONE NUCLEAR UNIT AND RUN TO SSEC
 11/12/75 STAB CASE 1986 RNPPHX3S2

X
 H
 A
 O
 REEVES 1115.
 HICKINLE 345.
 HESTRES9115.
 SINGURH01115.



A-C BUS FREQ. DEV. CYCLES/SEC



PLOT NO. 1 8
 ARIZONA PUBLIC SERVICE COMPANY
 FROM DUGBHS-RNPF-HX331 AT 1-0 TRIP ONE NUCLEON UNIT AND RUN TO 5SEC
 NOVEMBER 12, 1975

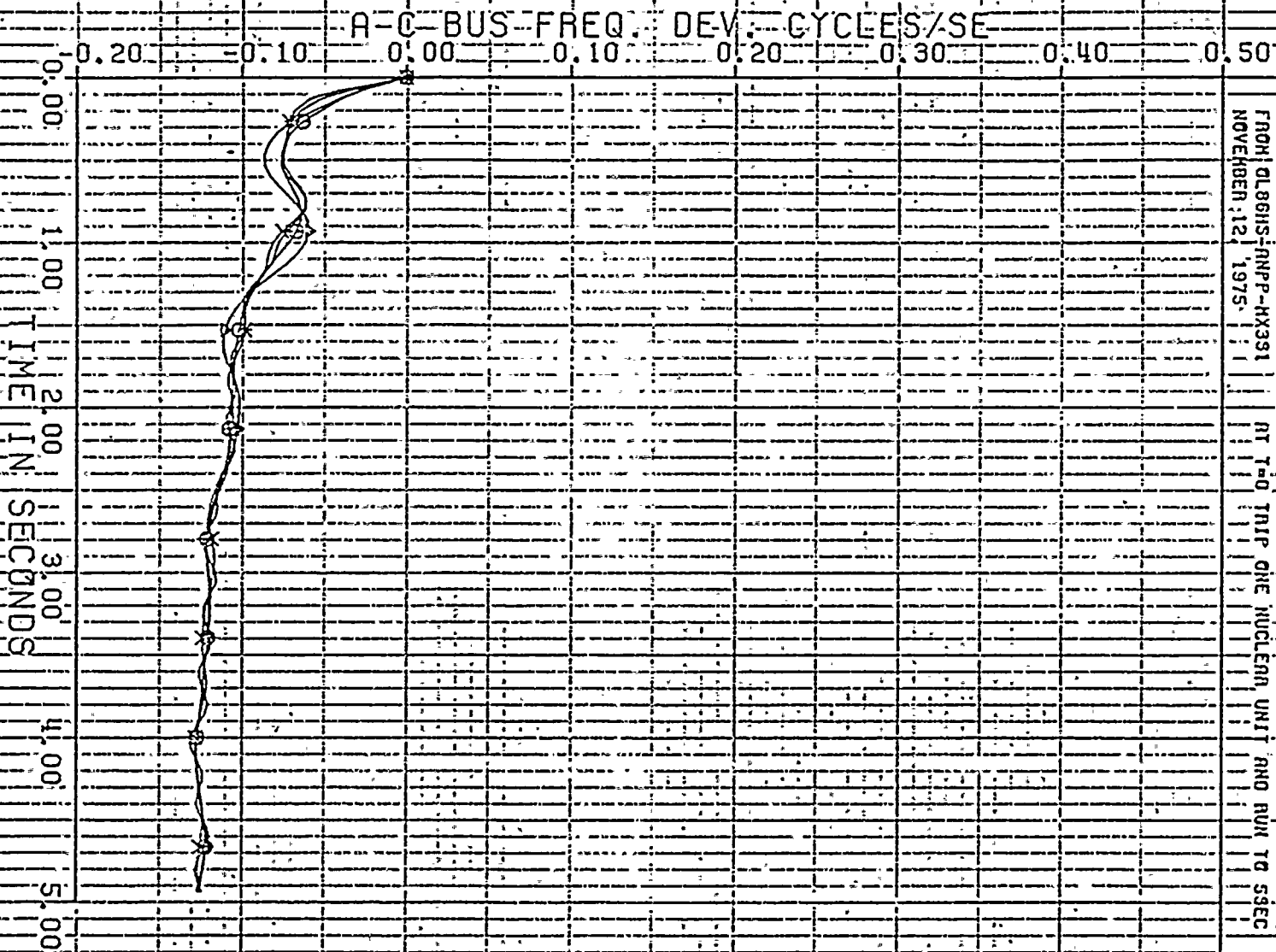
NENRAN 115.
 R10GRAND115.
 ROUNFH1R230.
 LIBERTY 230.

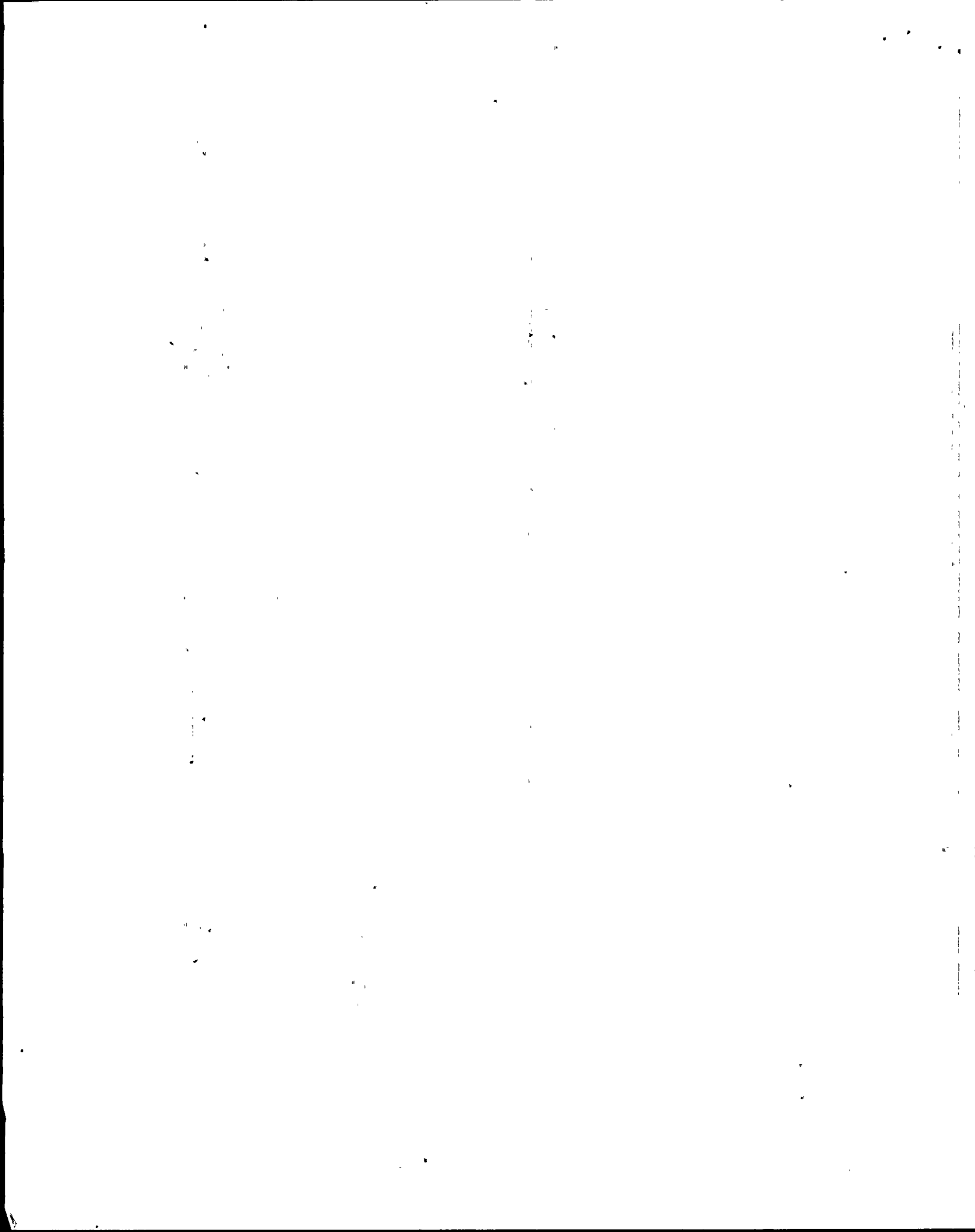
X
 +
 A
 O

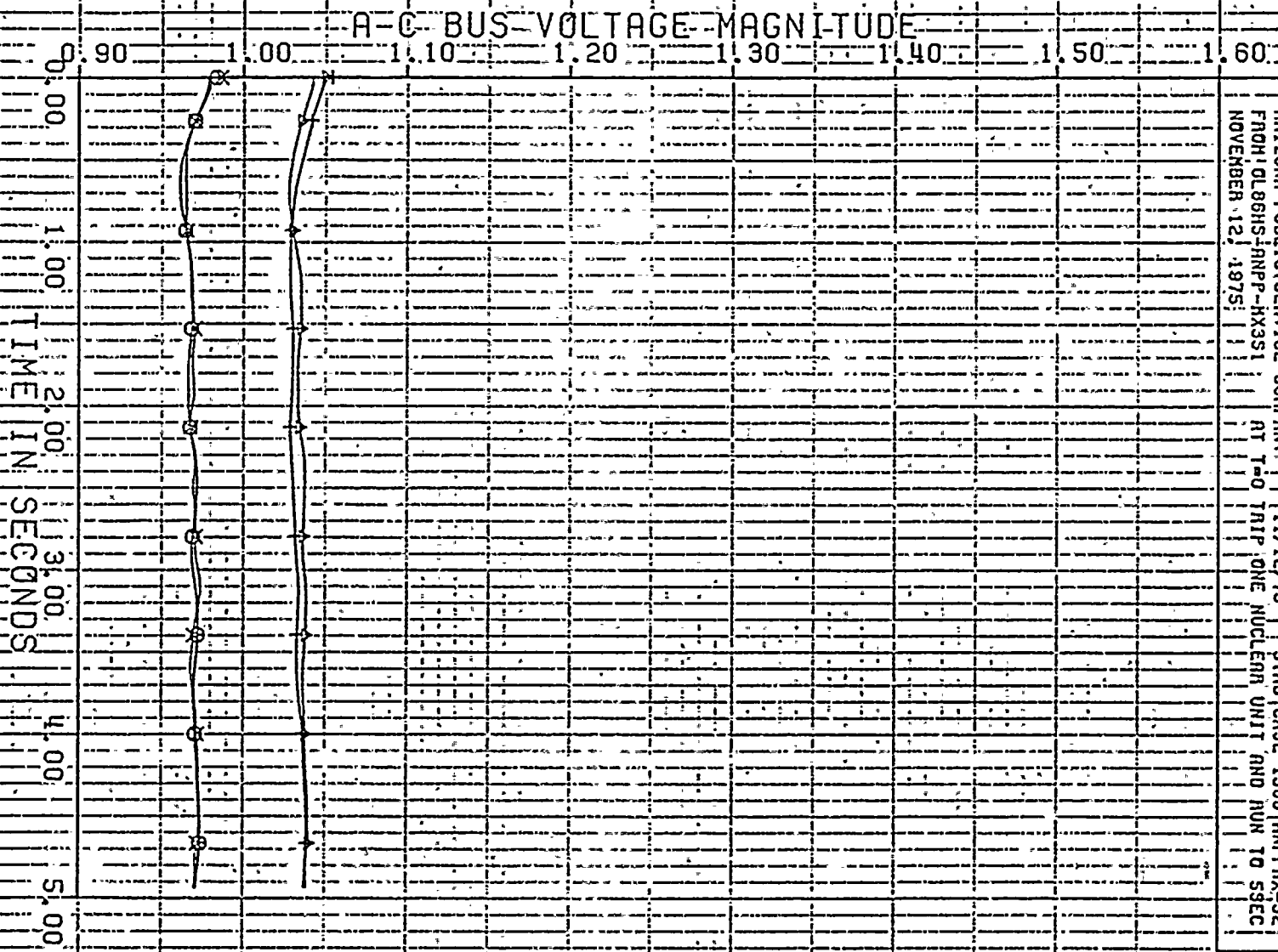
PLOT NO. 71
 ARIZONA PUBLIC SERVICE COMPANY : 11/12/75 STAB. CASE 1986 ANPRMX-32
 FROM: DL86HS-ANPP-KX391 AT T=0 TRIP ONE NUCLEON UNIT AND RUN TO 59C
 NOVEMBER 12 1975

KAREN : 230.
 CHOLLA : 230.
 ANDY : 345.
 ANDROS : 18345.

X
 +
 .
 A
 O

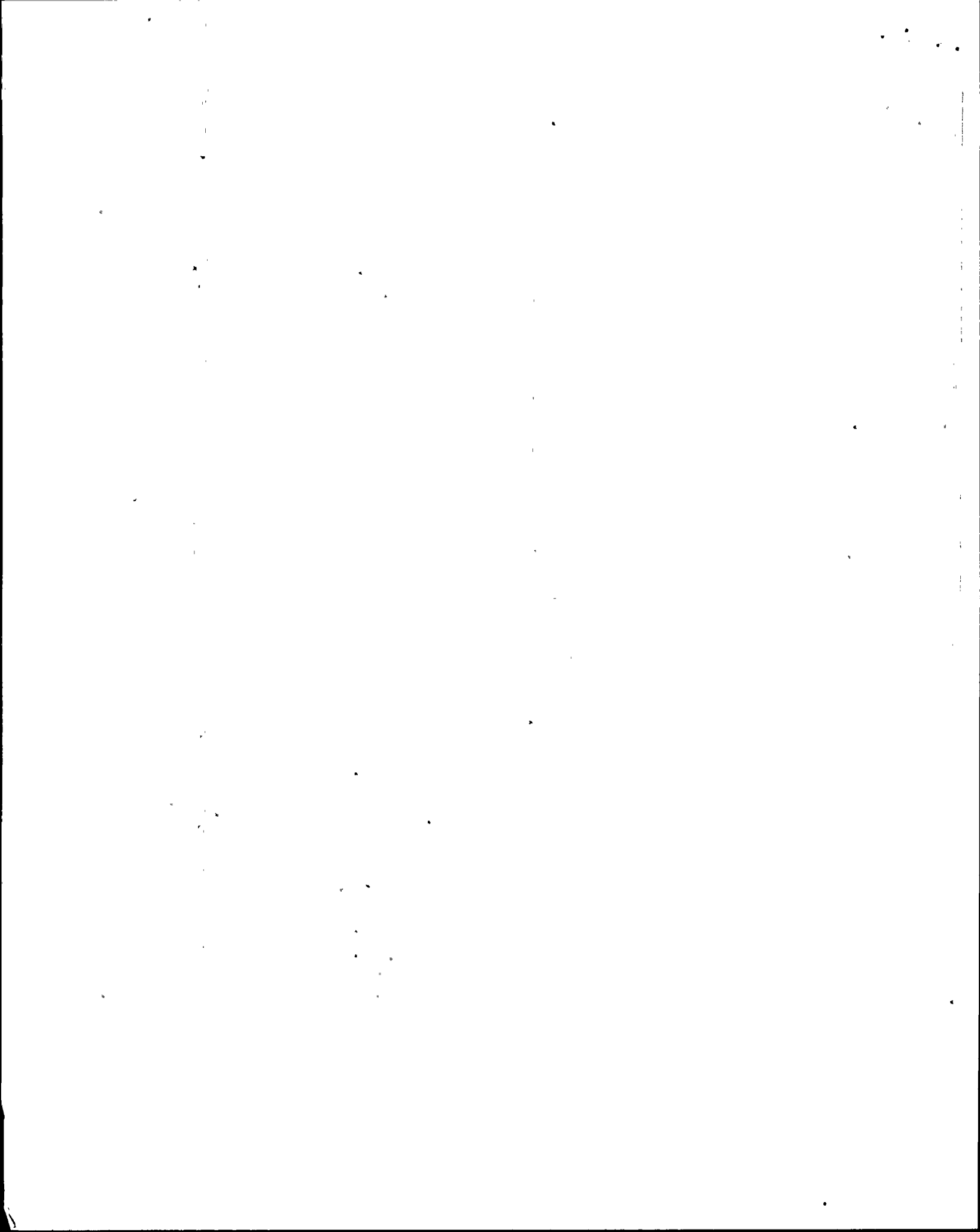




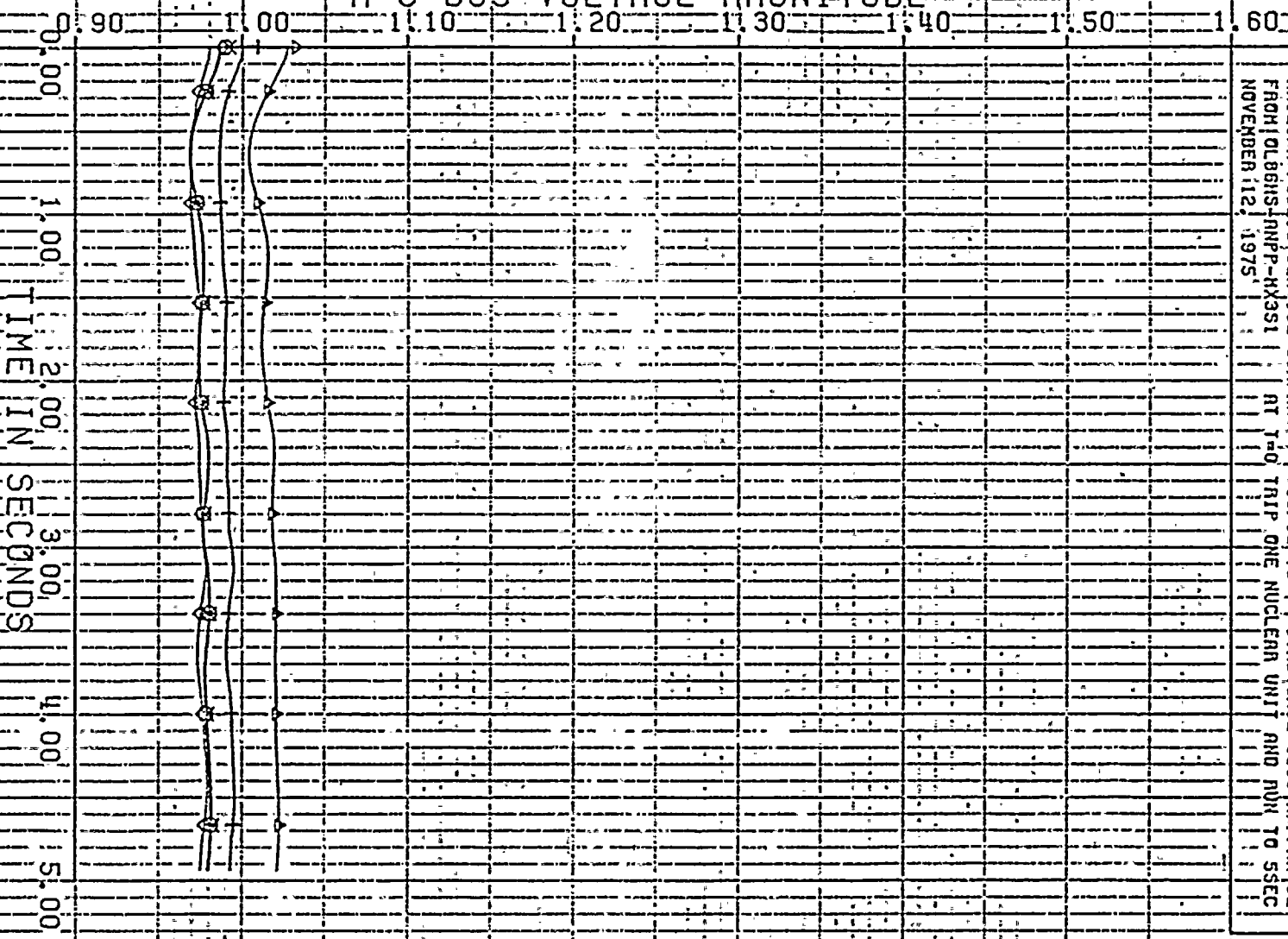


PLOT NO. 6
 ARIZONA PUBLIC SERVICE COMPANY 11/12/75 STAD CRSE 1986 ANPPHX-32
 FROM DL86HS-ANPP-HX31 AT T=0 TRIP ONE NUCLEAR UNIT AND RUN TO 5SEC
 NOVEMBER 12, 1975

OC011L0230.
 MOENKOP1500.
 HINCAS1500.
 VAIL 138.
 X
 +
 A
 O



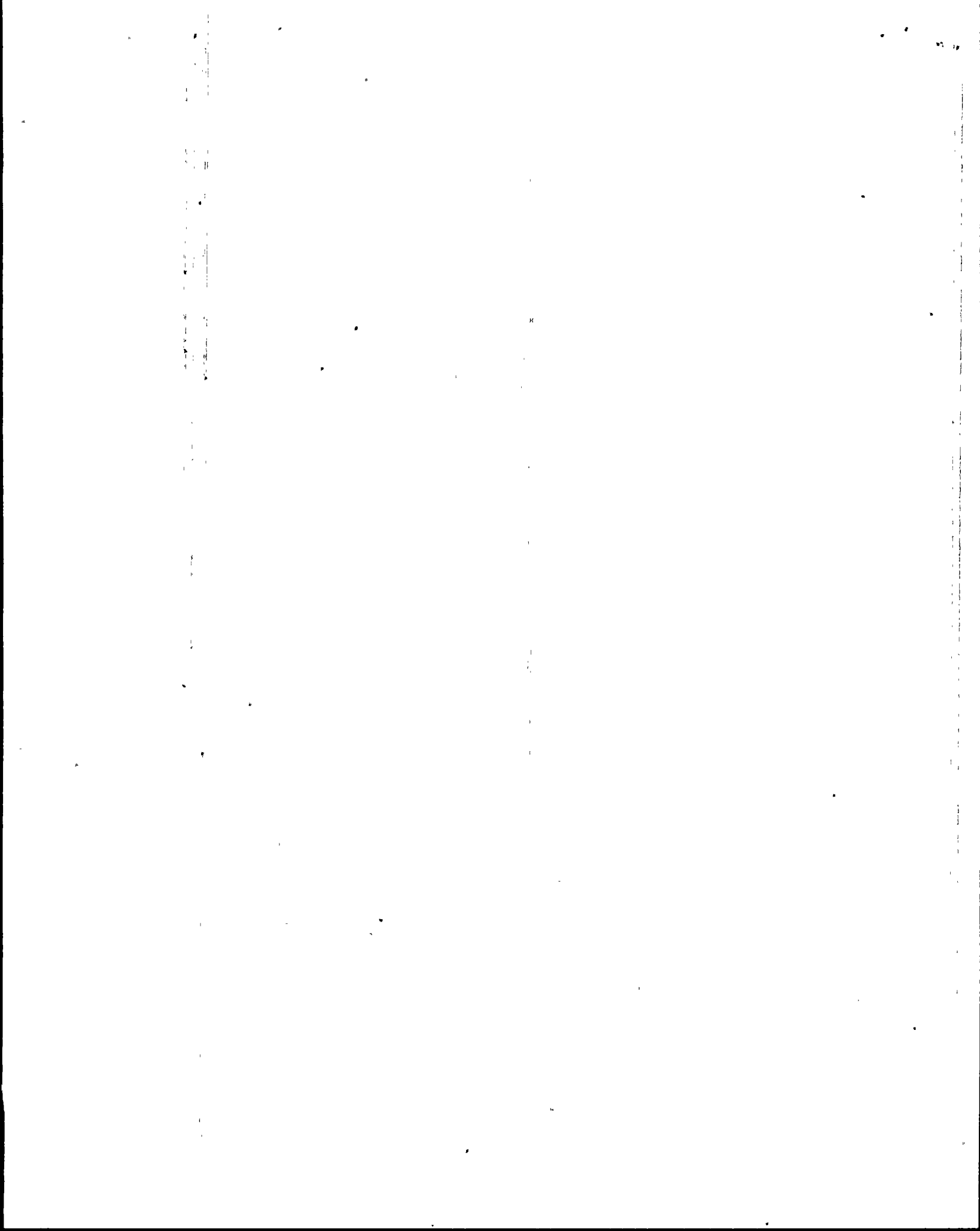
A-C BUS VOLTAGE MAGNITUDE



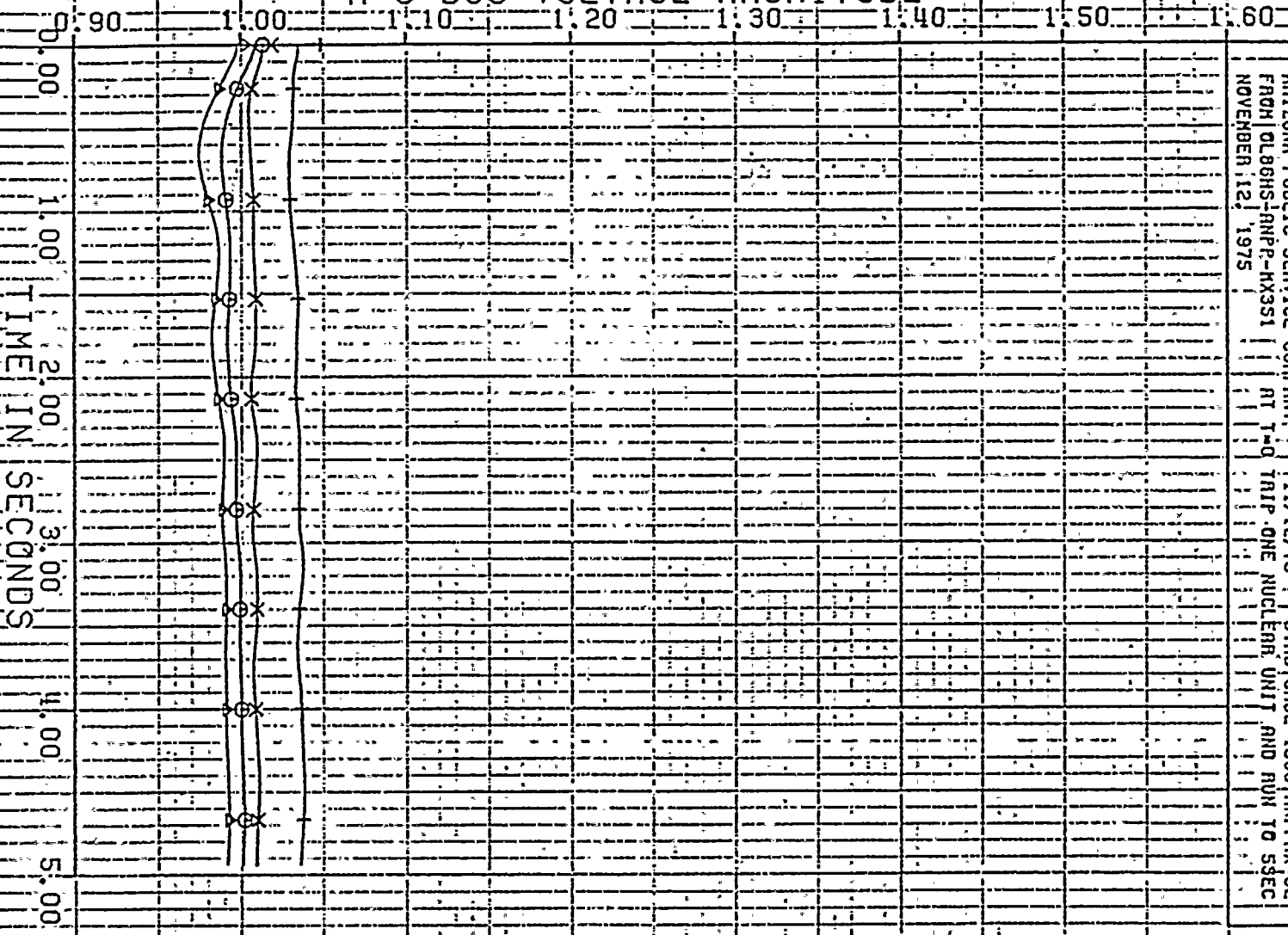
PLOT NO: 5
 ARIZONA PUBLIC SERVICE COMPANY
 FROM: 0186HS-INPP-HX351
 NOVEMBER 12, 1975
 AT T=0 TRIP ONE NUCLEAR UNIT AND RUN TO SSEC
 11/12/75
 STRAB CASE 1986-INPPHX-352

COOLIDGE 115.
 SOUTH 1-138.
 PARKRAPS 230.
 QUG 115.
 INAVGIN 138.

◆
 ×
 +
 △
 ○

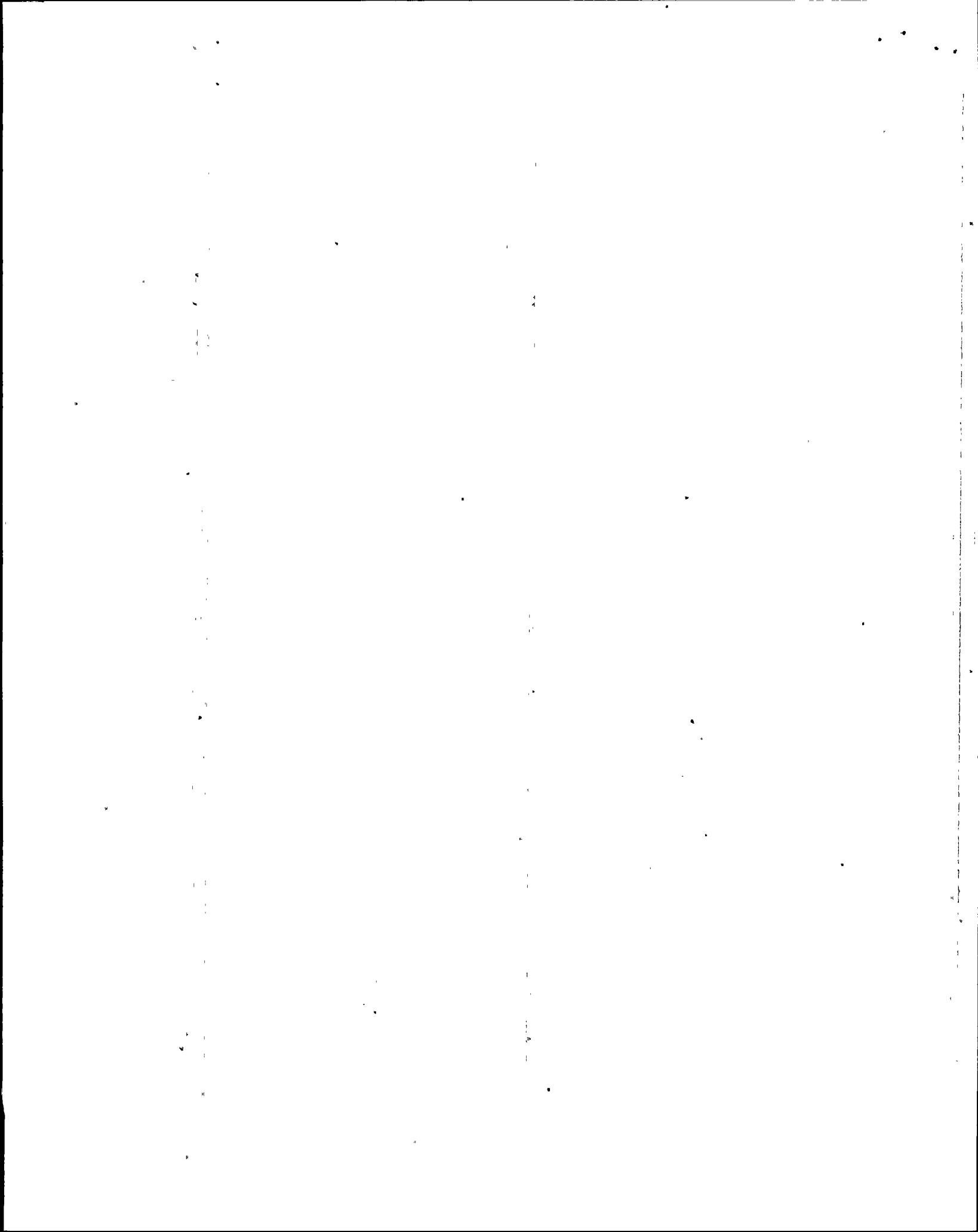


A-C-BUS-VOLTAGE-MAGNITUDE



PLOT NO. 4
 ARIZONA PUBLIC SERVICE COMPANY
 FROM DLB6HS-NRPF-KX351
 NOVEMBER 12, 1975
 11/12/75
 AT T=0 TRIP ONE NUCLEAR UNIT AND RUN TO 5SEC
 STAB CASE 1986 NRPFHX-521

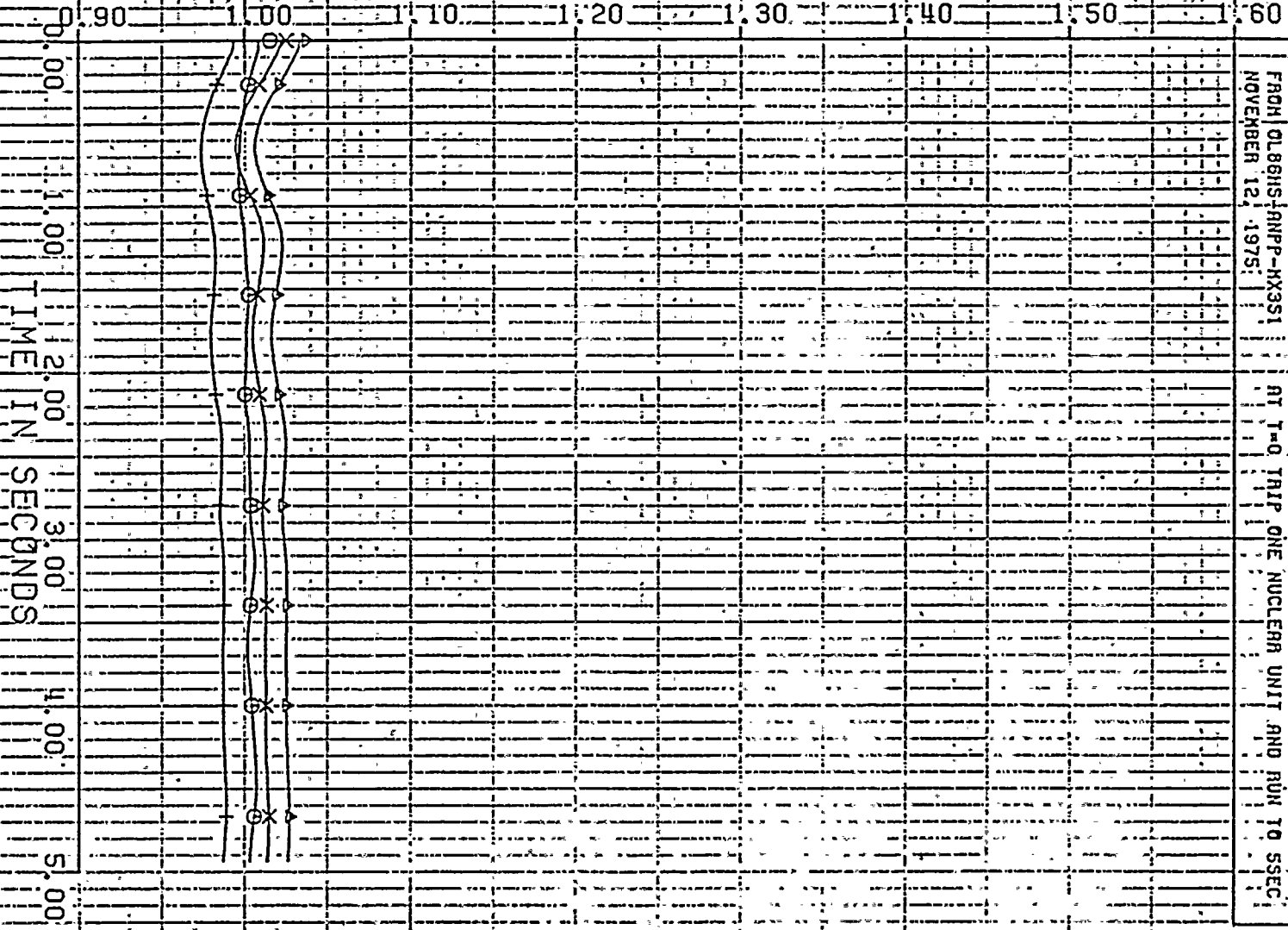
APACHE 230
 NUCLER 500
 NOTOR 345
 FOURCORNS 345
 X
 +
 *
 .
 O

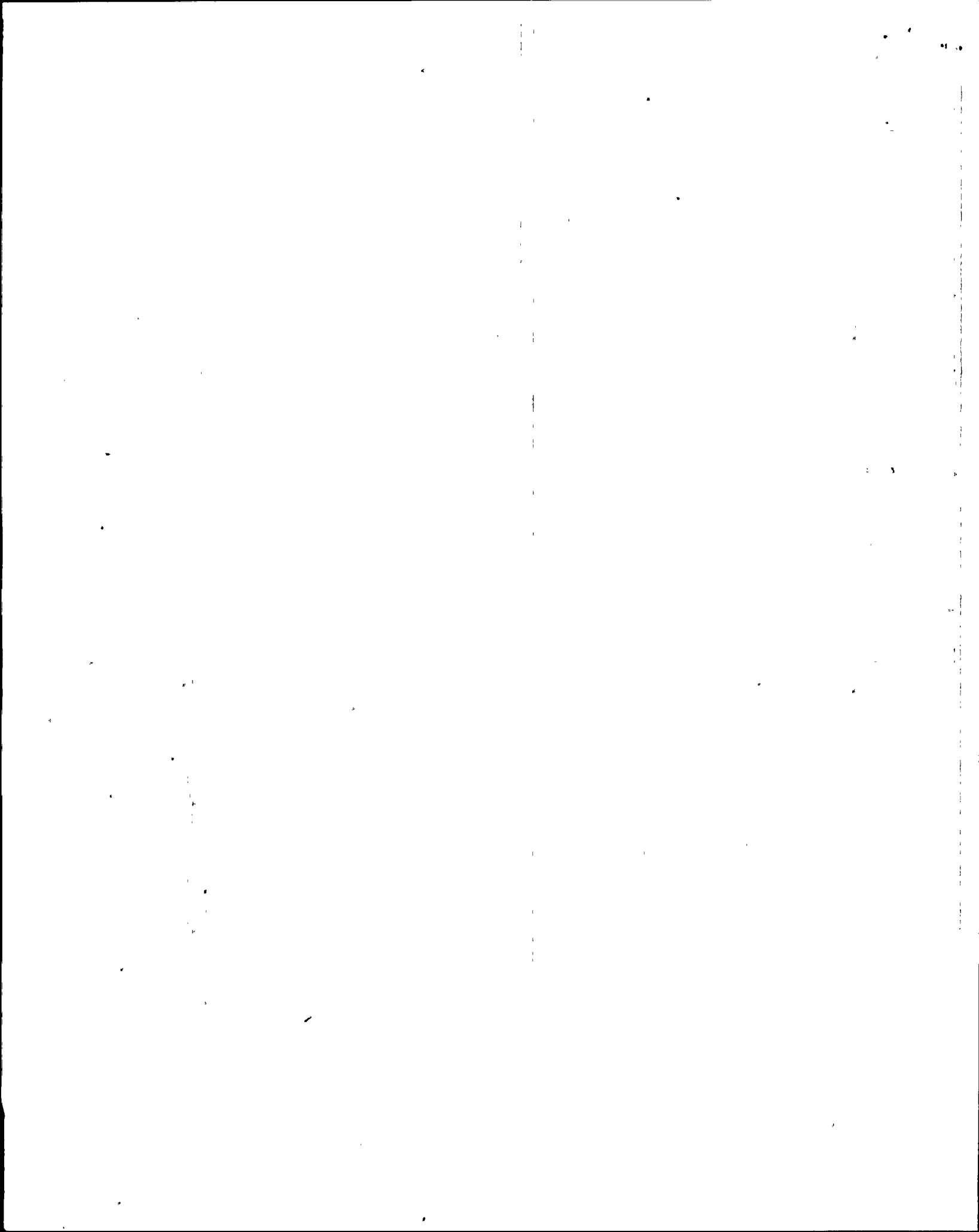


PLOT NO. 3
 ARIZONA PUBLIC SERVICE COMPANY
 FROM 086HS-ANPP-NX3S1 AT T=0 TRIP ONE NUCLEAR UNIT AND RUN TO SSEC
 NOVEMBER 12, 1975
 11/12/75 STAB CASE 1986-ANPPHX-S2

REEVES 1115. X
 HICKINLE 345. +
 MESTHERS 115. ▲
 SAGUARO 1115. ○

A-C BUS VOLTAGE MAGNITUDE



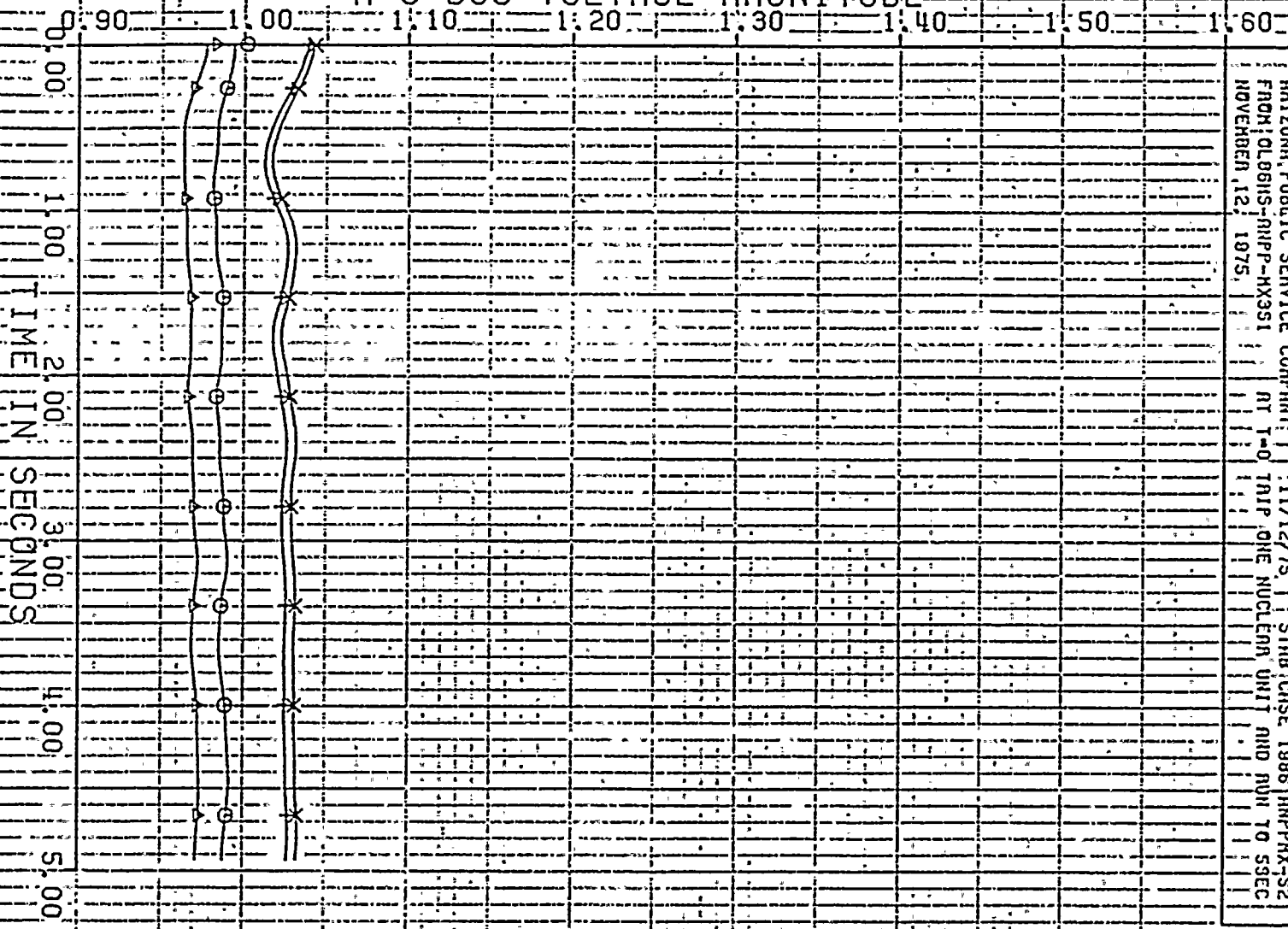


PLOT NO. 2
 ARIZONA PUBLIC SERVICE COMPANY: 11/12/75 STAB CASE 1986 ANP-PHX-52
 FROM: OLBHS-RNPP-HX351 AT T=0 TRIP ONE NUCLEON UNIT AND RUI TO 5SEC
 NOVEMBER 12, 1975

NENRAN 115.
 RIGGRAND115.
 INCUNFALR230.
 LIBERTY 230.

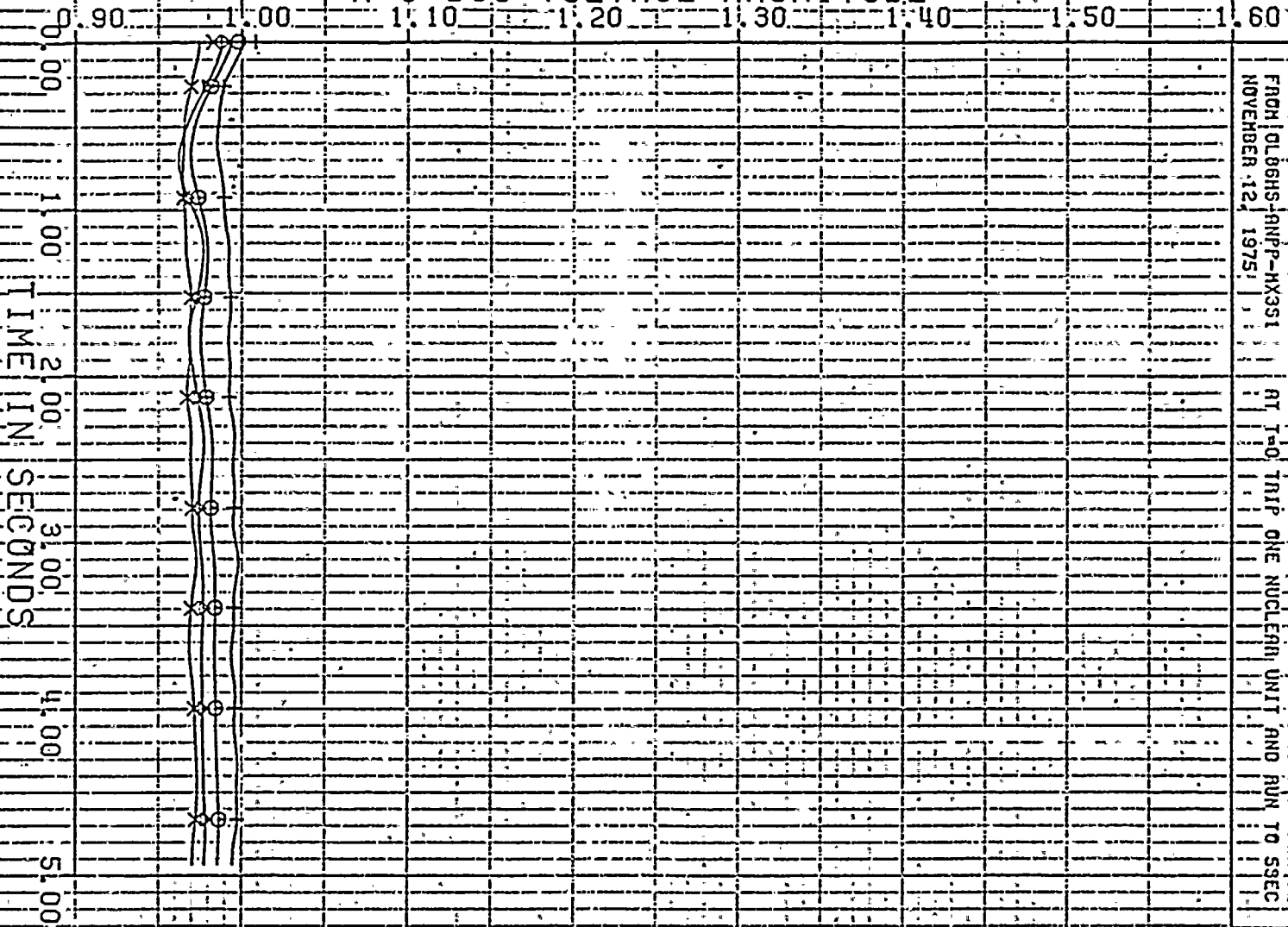
X
 +
 A
 O

A-C BUS VOLTAGE MAGNITUDE



0.90
 1.00
 0.00 1.00 2.00 3.00 4.00 5.00
 TIME IN SECONDS

A-C BUS VOLTAGE MAGNITUDE



PLOT NO: 1
 ARIZONA PUBLIC SERVICE COMPANY
 FROM: 0685-ANPP-HX351
 NOVEMBER 12 1975
 AT: 1-0 TRIP ONE NUCLEAR UNIT AND RUN TO 59EC
 11/12/75 STAB CASE 1986 ANPPHX-SS

KYNE 230.
 CHOLLA 230.
 ANOTO 345.
 ANBROS 1845.
 X
 A
 O

230A

