

7/31/81

Data Package for

RT-500K Testing

April 23-24, 1981

B108240094 B10817
PDR ADOCK 05000267
P PDR

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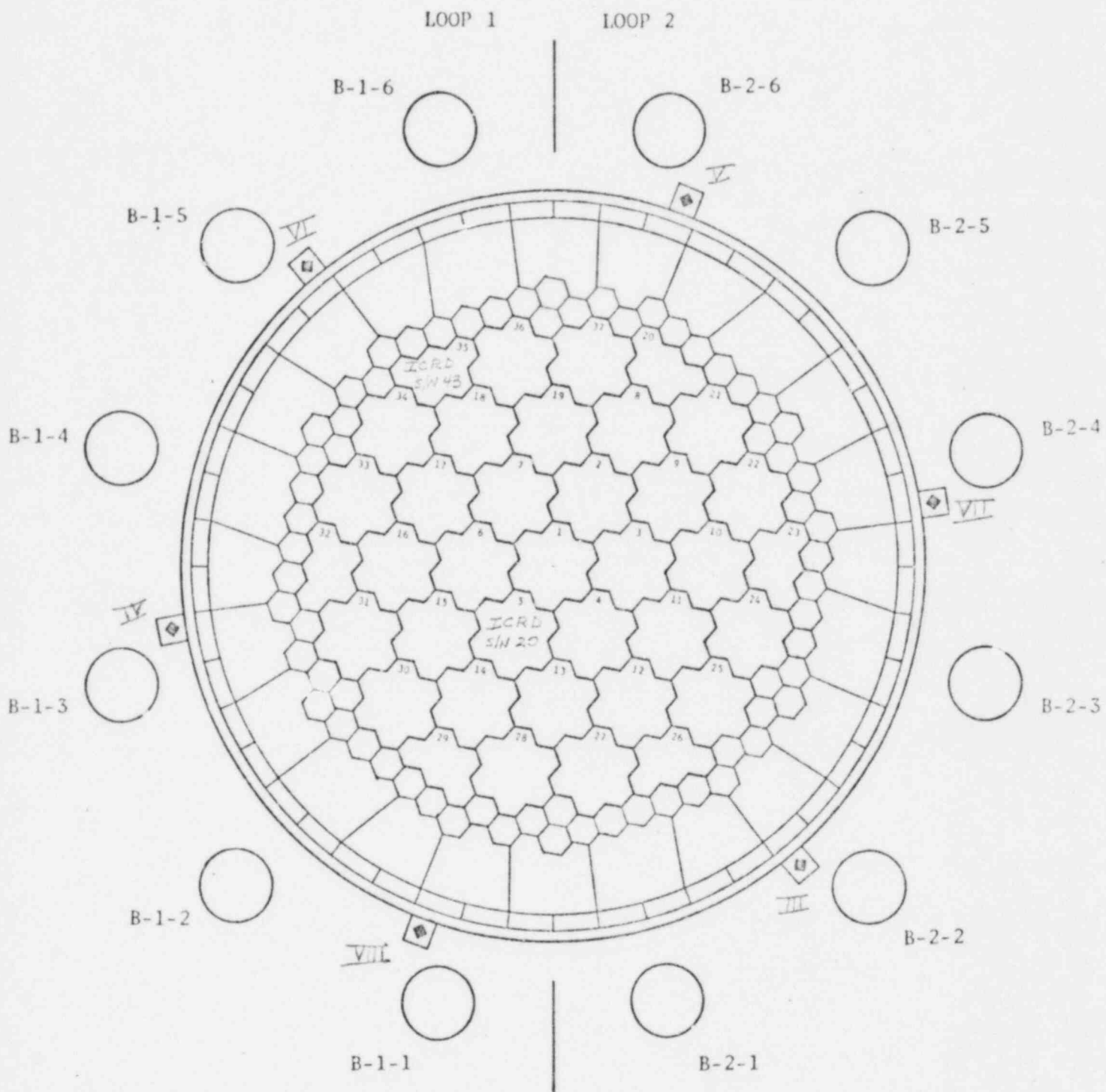
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Sequence of Events

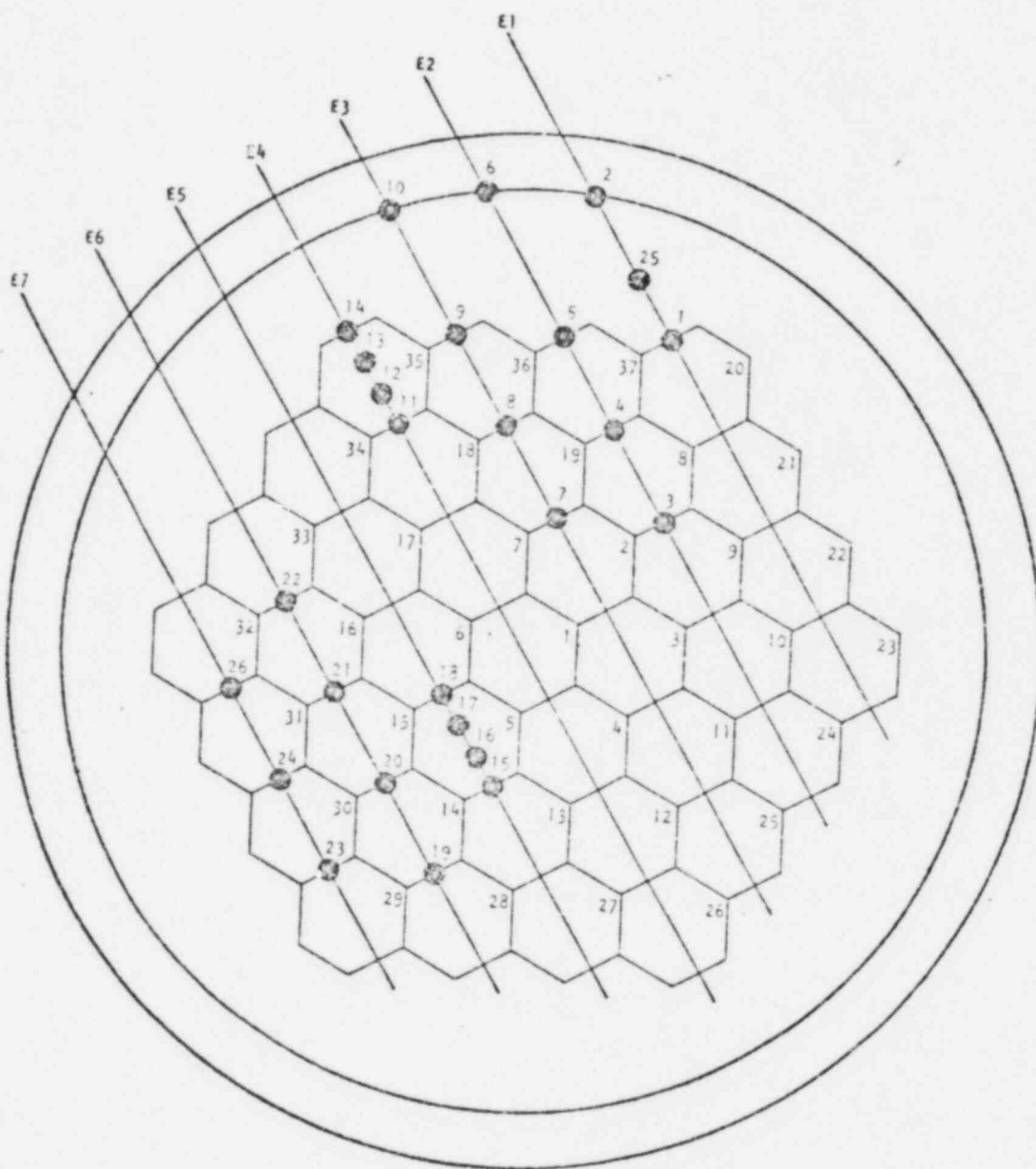
Steady State Conditions
Prior to Power Increase

<u>Date (Time)</u>	<u>Power</u> (%)	<u>Flow</u> (%)	<u>Core ΔP</u> (psi)	<u>Resistance</u>	
4/23/81 (1601)	72	79	3.1	44	
(1932)*	72	79	3.1	44	
(2147)*	76	84	3.4	44	Temperature
				← 42	Redistribution
4/24/81 (0745)	80	87	3.5	42	
(1111)	83	90	3.8	42	
(1412)*	82	89	3.7	42	
(1543)*	86	93	4.0	42	Temperature
				← 42	Redistribution
(1620)	91	96	4.4	42	

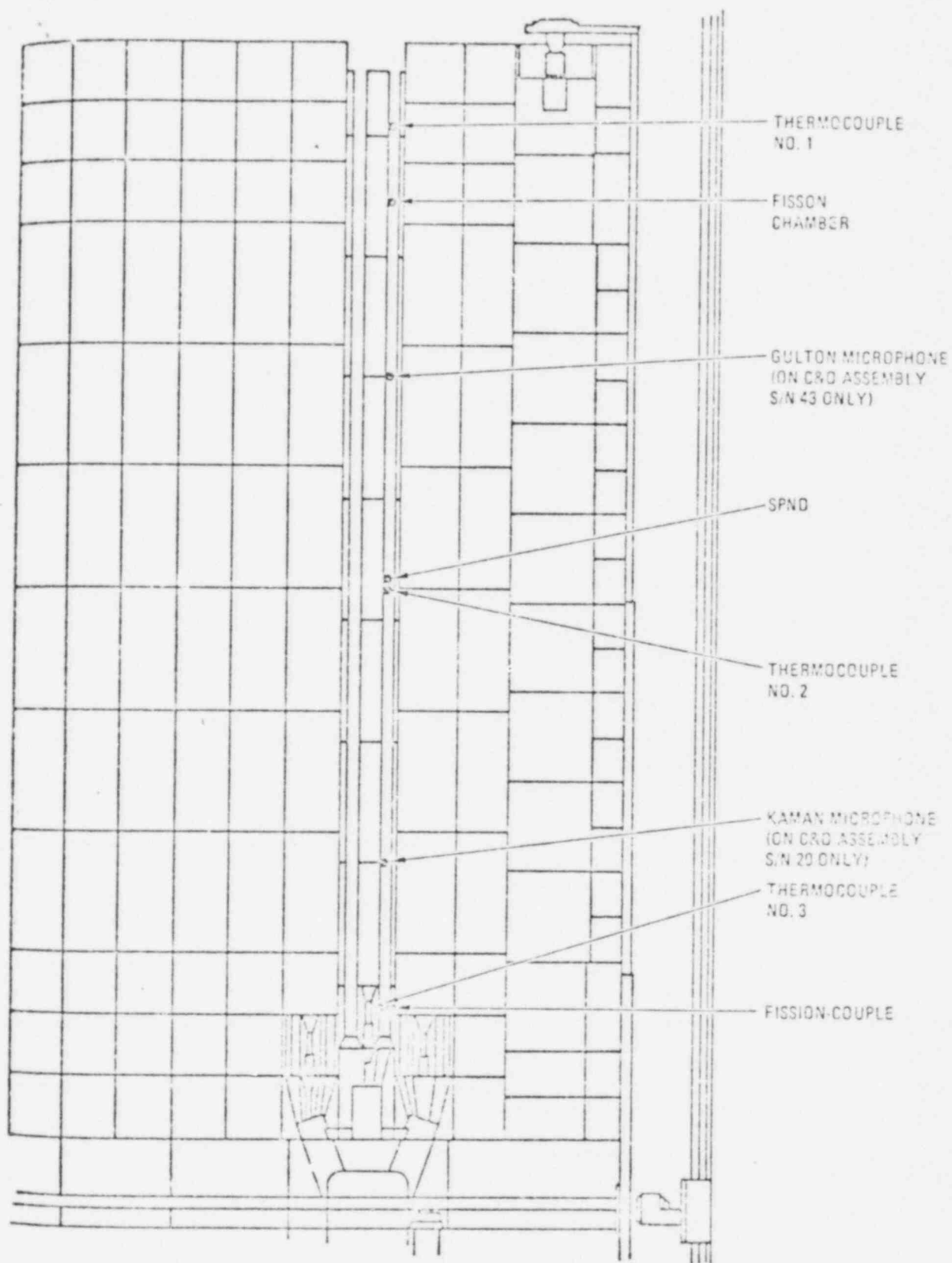
*Data attached for these power increases.



CORE, STEAM GENERATOR AND
NUCLEAR CHANNEL CONFIGURATION



Calibration tube thermocouple locations



Relative axial locations of in-core instrumentation

Notes on Data Package

Prior to the start of RT-500K, on 4/13/81, a CFDS tape was written and used to verify that all channels were functioning properly. Sometime after then, and during RT-500K, several channels were not functioning properly. The following notes discuss these malfunctions:

1. TC-2, TC-6 -- signals have frequent spikes, possibly the result of intermittent signals.
2. TC-14 -- does not work. In the past has sometimes given intermittent signals similar to TC-2.
3. TCW-43 (thermocouple in fission couple in region 35) -- no data available because the channel went out of calibration. P-20 (orifice ΔP in region 5) was out of calibration during the redistribution on 4/23/81.
4. PDT-1112 (Core ΔP), ZT-1233-1 (Reg Rod), Core Resistance, TCU-20 and TCW-20 (thermocouple in fission couple in region 5), CPL-20 (fission couple in region 5) -- these channels were not functioning.
5. P-43 (orifice ΔP in region 35) -- the range of the recorder was changed to 0 - 2.5 psid.
6. NIC-1199 (nuclear flux) -- data not available because the switch at the site was "off."
7. Thermocouple calibration offsets -- the thermocouple log, which is used to calculate/confirm the appropriate TC reference junction compensation, was taken at 0903 hours on 4/24/81. A comparison of these temperatures to those on the CFDS tape gives the TC calibration offsets. The offsets (Table 1) are added to the CFDS thermocouple temperatures to obtain the correct temperature values. No TC calibration offsets were required for the ICRD region thermocouples.

Two final notes regarding the data are:

1. The six nuclear power channels (NIM-1133, 1134, etc.) were averaged. "Deviations" are defined as the individual channel signal minus this average for the six power channels.
2. Recalibration procedures for resetting the floating trip point result in occasional spikes in the nuclear channel signals, and hence in the deviations of these channels from the average.

TABLE 1

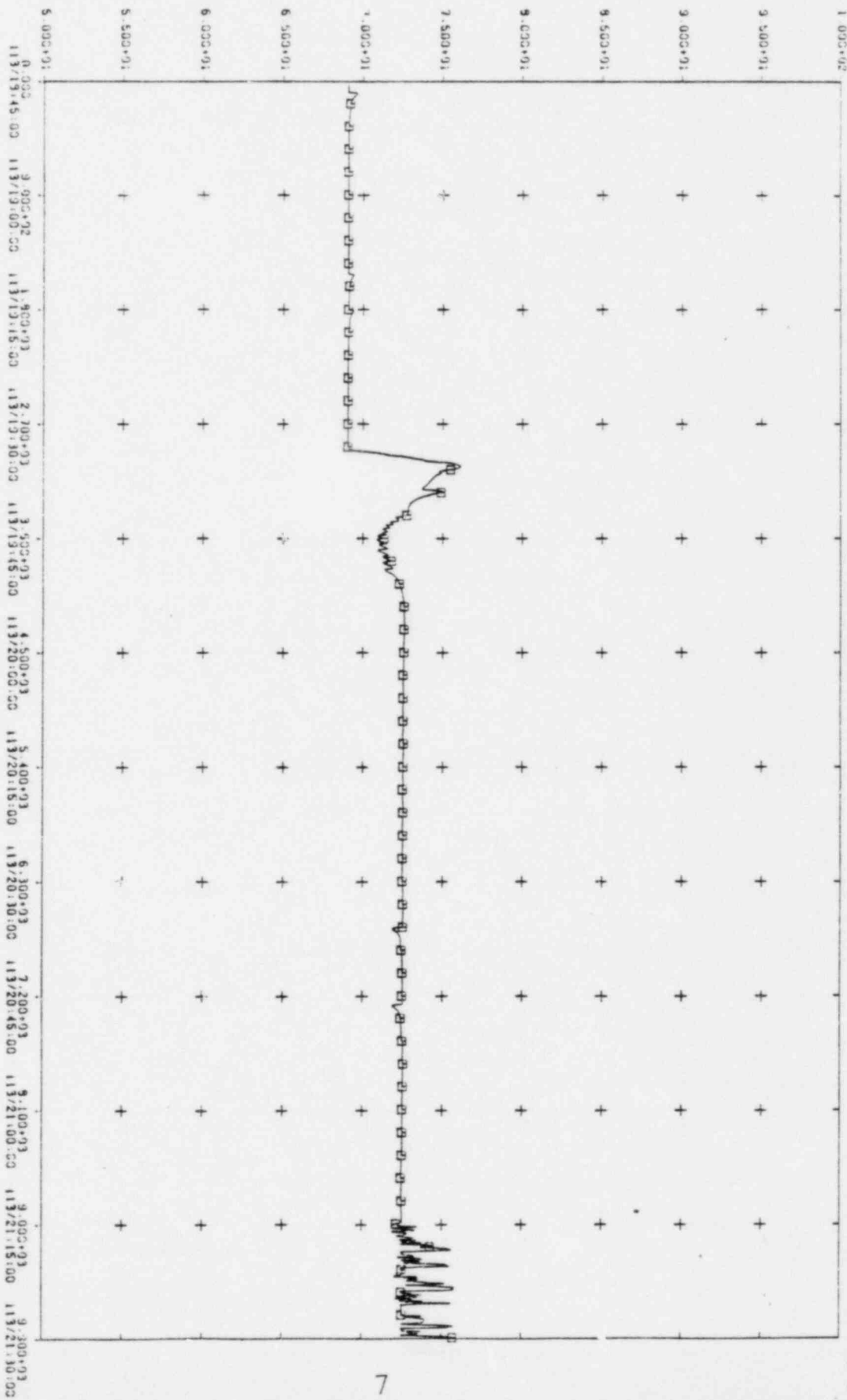
Thermocouple Offsets (4/16 to 4/25, 1981)

<u>TC</u>	<u>Offset (°F)</u>
1	30
2	30
3	- 1
4	0
5	19
6	12
7	- 3
8	- 6
9	16
10	-17
11	2
12	-16
13	7
14	0
15	-19
16	-13
17	-17
18	-16
19	-17
20	-17
21	-10
22	- 7
23	-16
24	-14
25	1
26	- 6

CFDS - 4/23/81 - 1845 10 2130

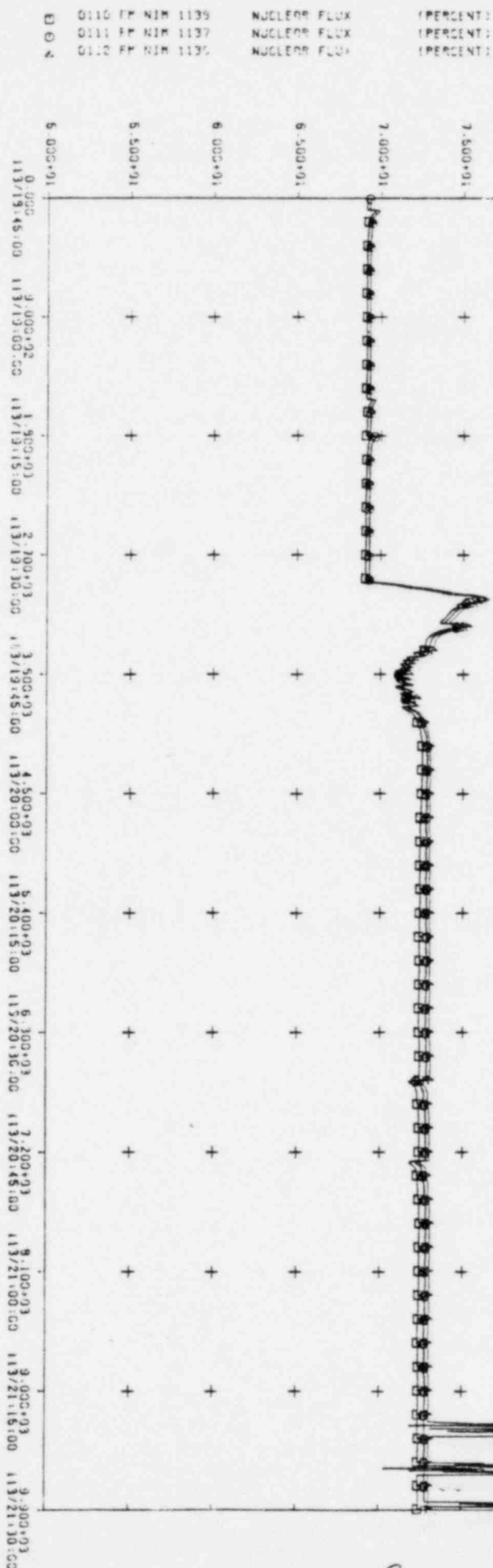
FRAME 11

1501 FM CALCULATED IDEVI AVERAGE NUCLEAR POWER



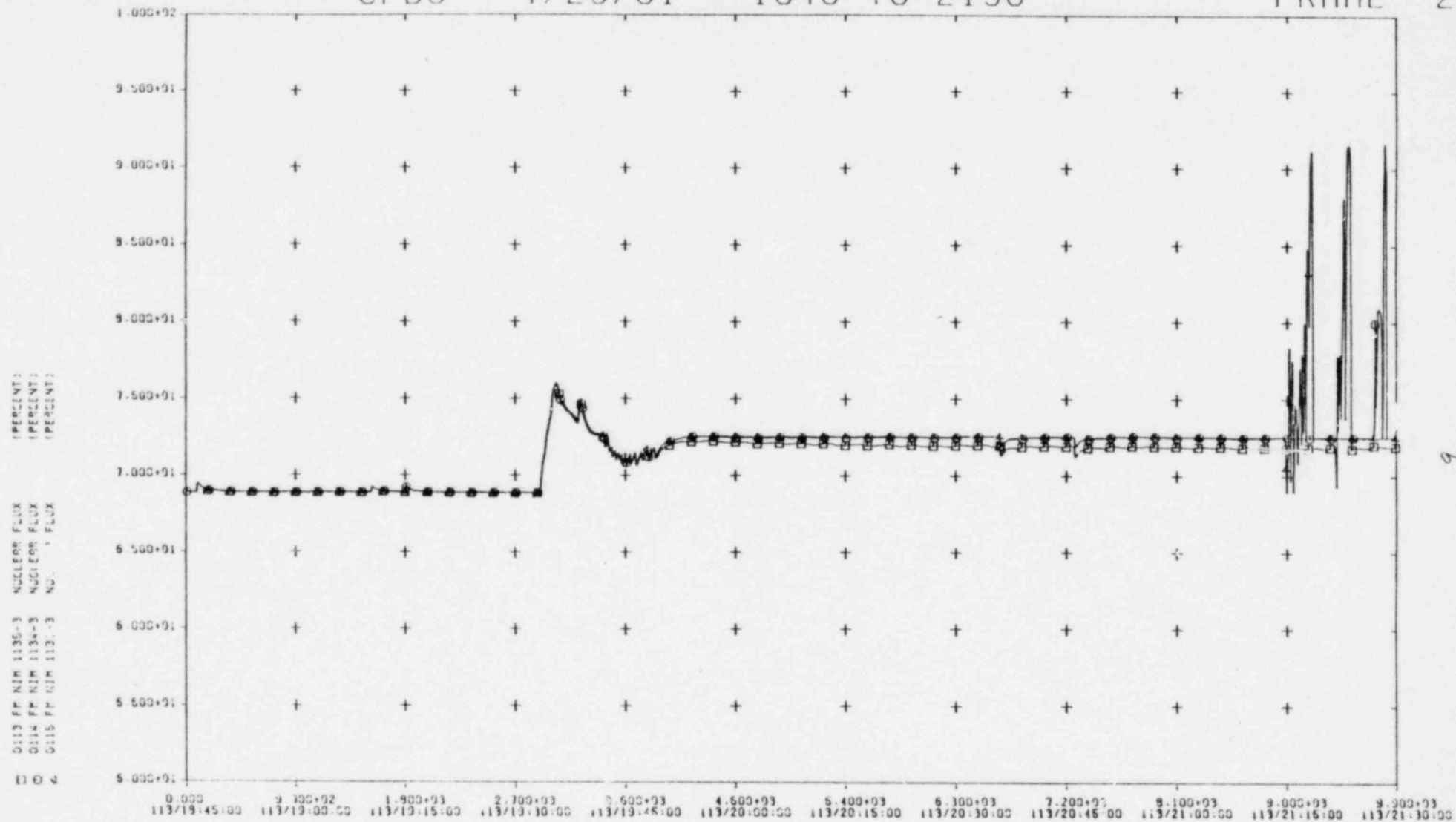
CFDS - 4/23/81 - 1845 TO 2130

FRAME 1



CFDS - 4/23/81 - 1845 TO 2130

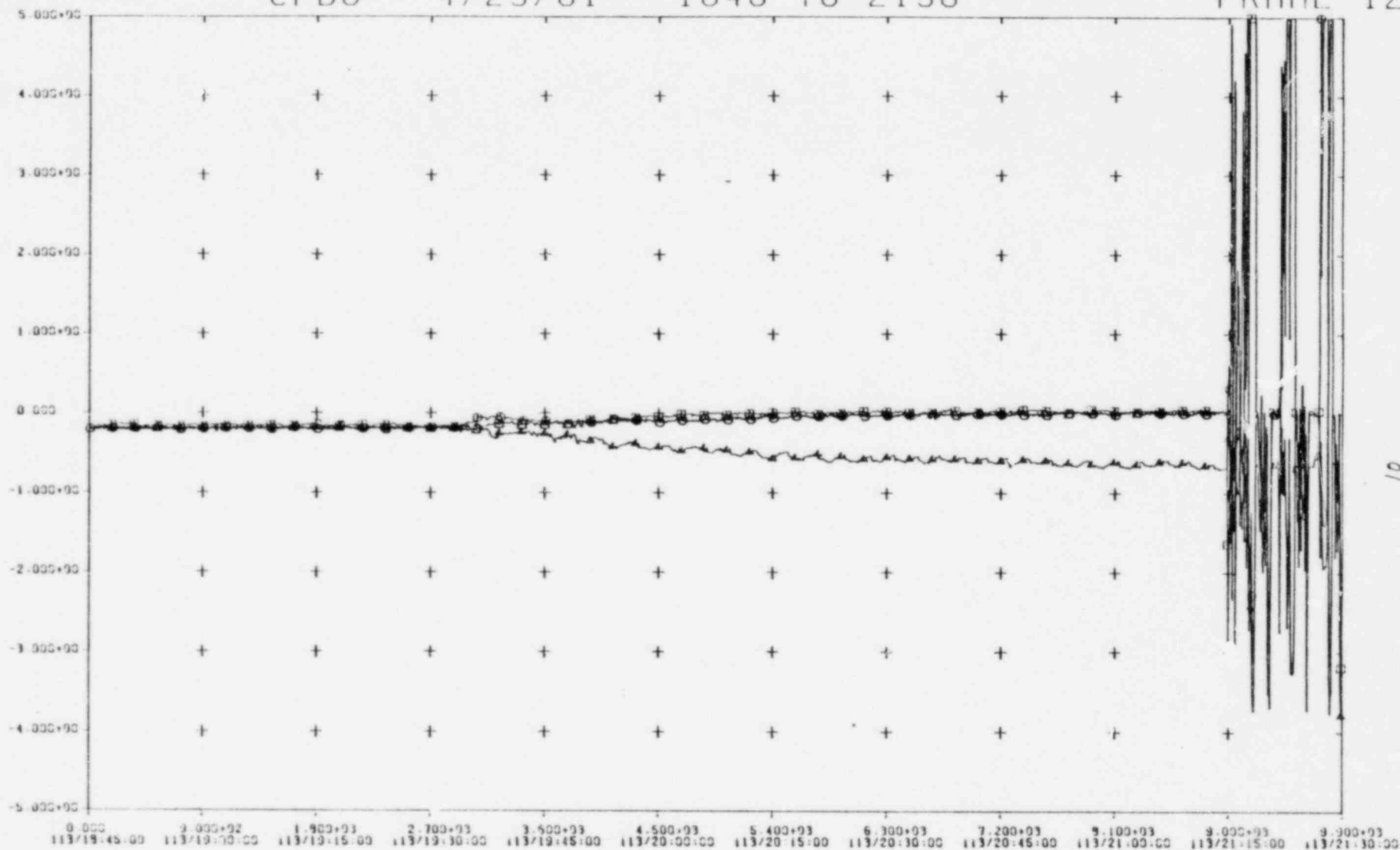
FRAME 2



CFDS - 4/23/81 - 1845 TO 2130

FRAME 12

1507 FM CALCULATED (DIV) NIM 113 - RVE
1508 FM CALCULATED (DIV) NIM 113A - RVE
1509 FM CALCULATED (DIV) NIM 113B - RVE



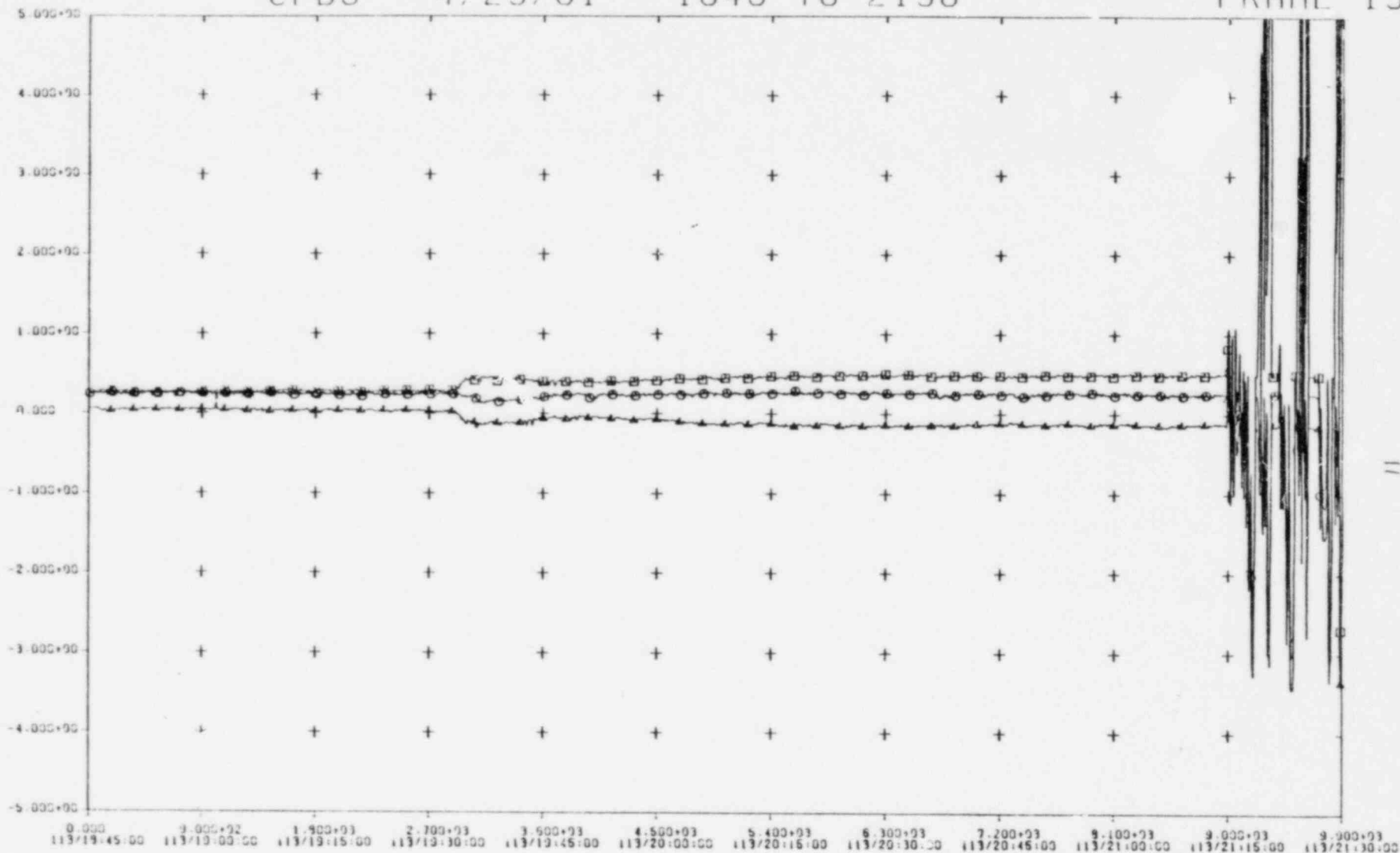
10

CFDS - 4/23/81 - 1845 TO 2130

FRAME 13

1504 PF CALCULATED (DCV) NIM 1195 - RVE
1503 PF CALCULATED (DCV) NIM 1197 - RVE
1502 PF CALCULATED (DCV) NIM 1199 - RVE

EO 4

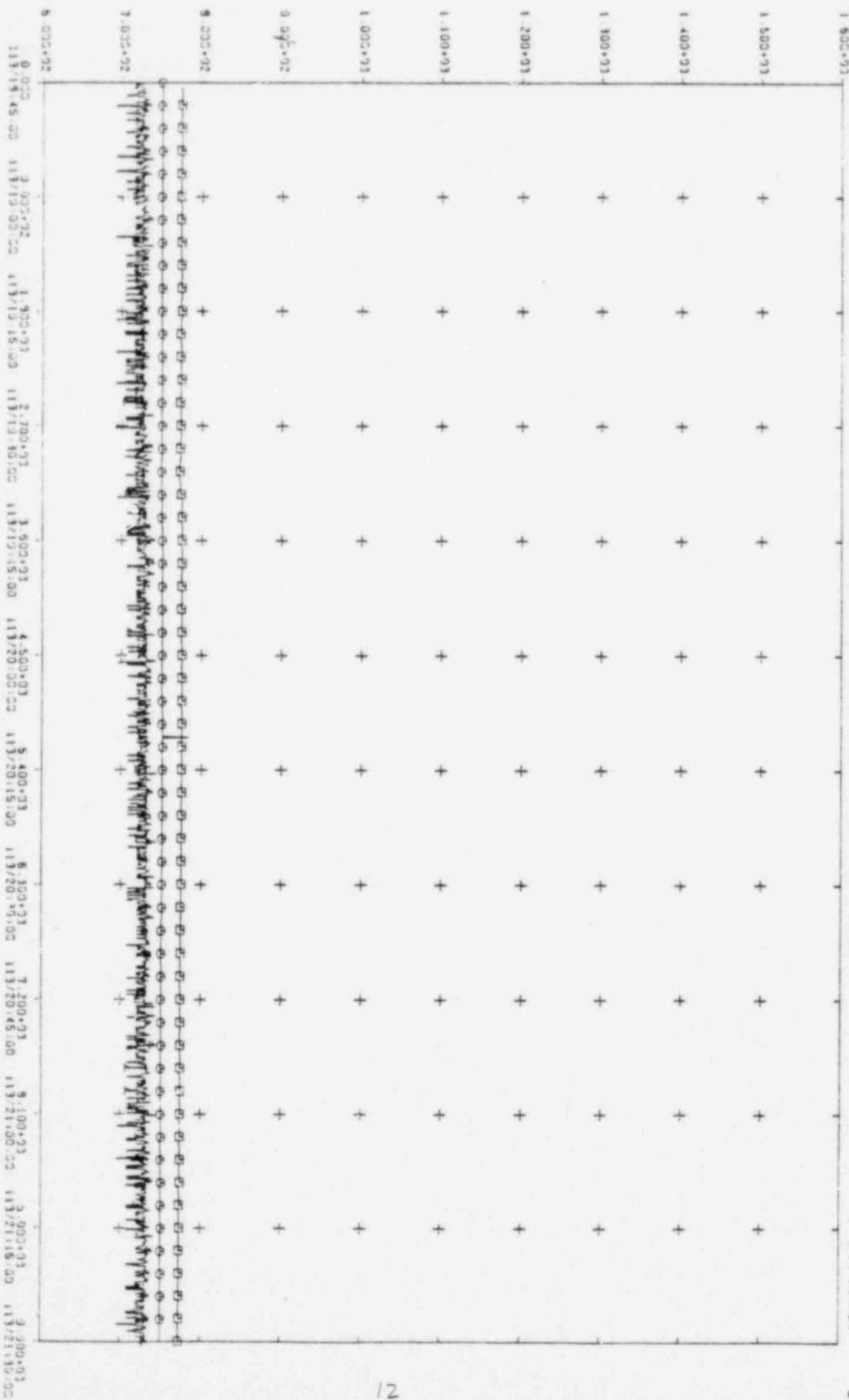


11

CFDS - 4/23/81 - 1845 TO 2130

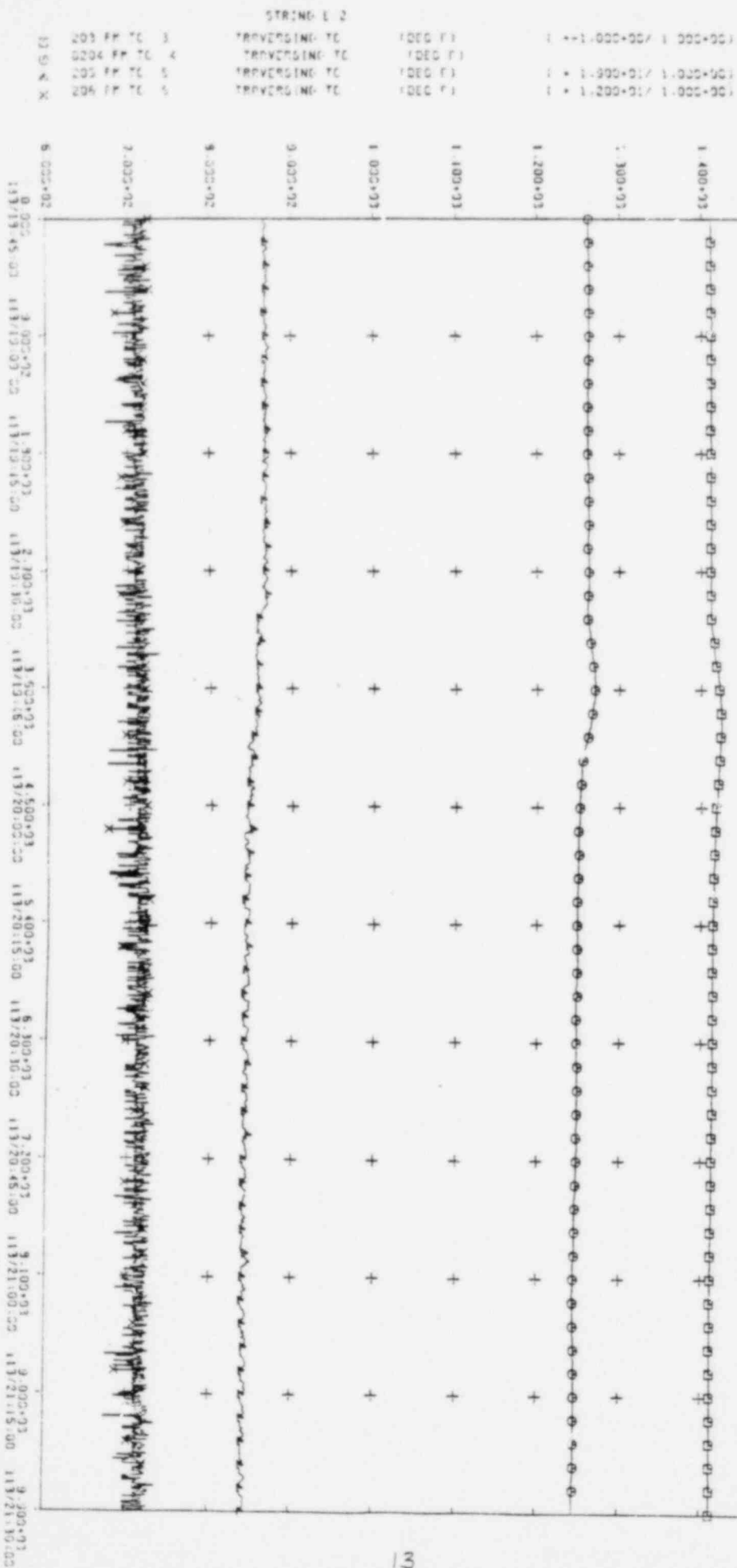
FRAME 1

STRING 1
 TRPVZRGING TC DEC F
 TRPVZRGING TC DEC F
 TRPVZRGING TC DEC F
 1 * 3.000+01/ 1.000+00
 1 * 1.000+00/ 1.000+00
 1 * 3.000+00/ 1.000+00



CFDS - 4/23/81 - 1845 TO 2130

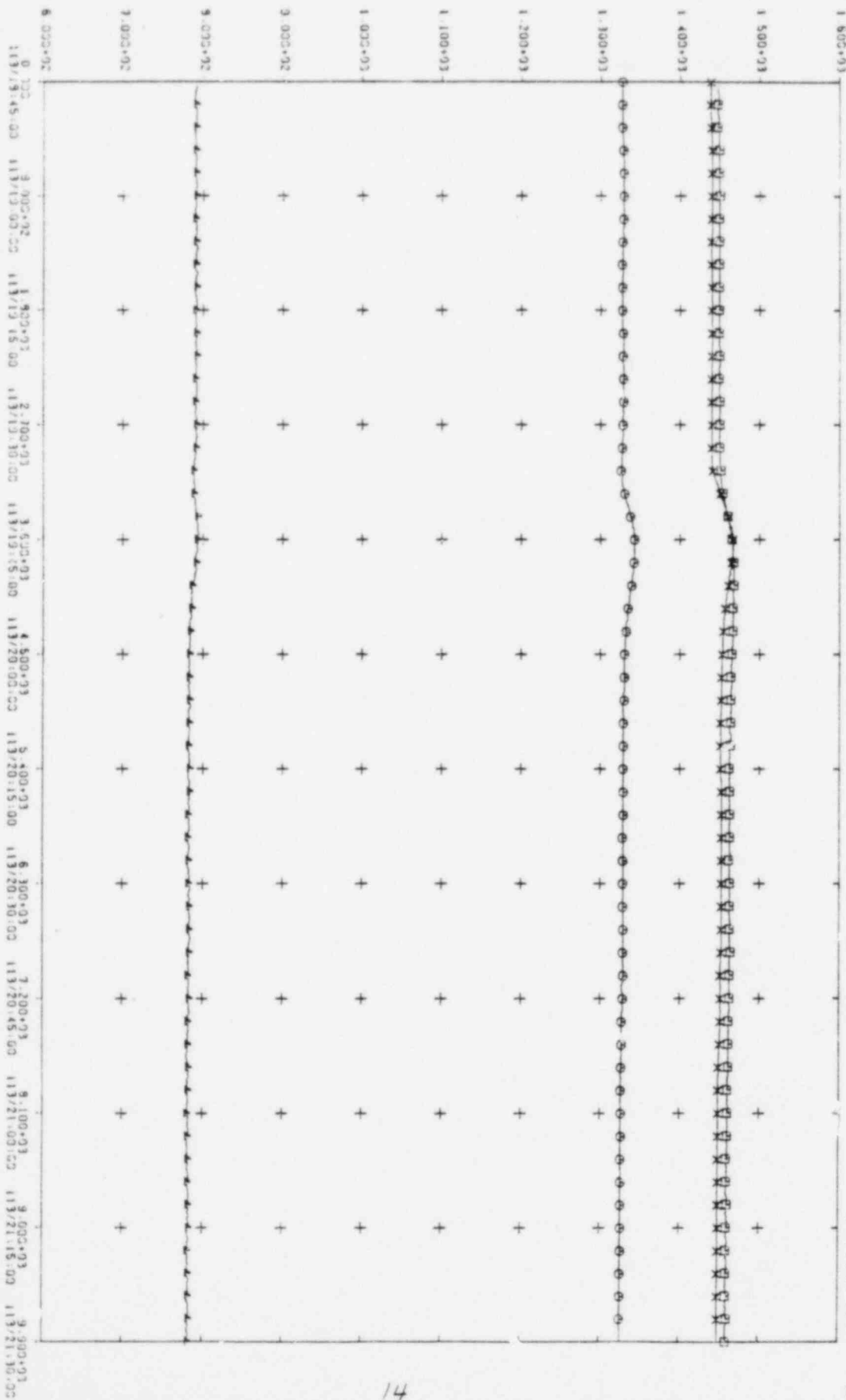
FRAME 2



CFDS - 4/23/81 - 1845 TO 2130

FRAME 3

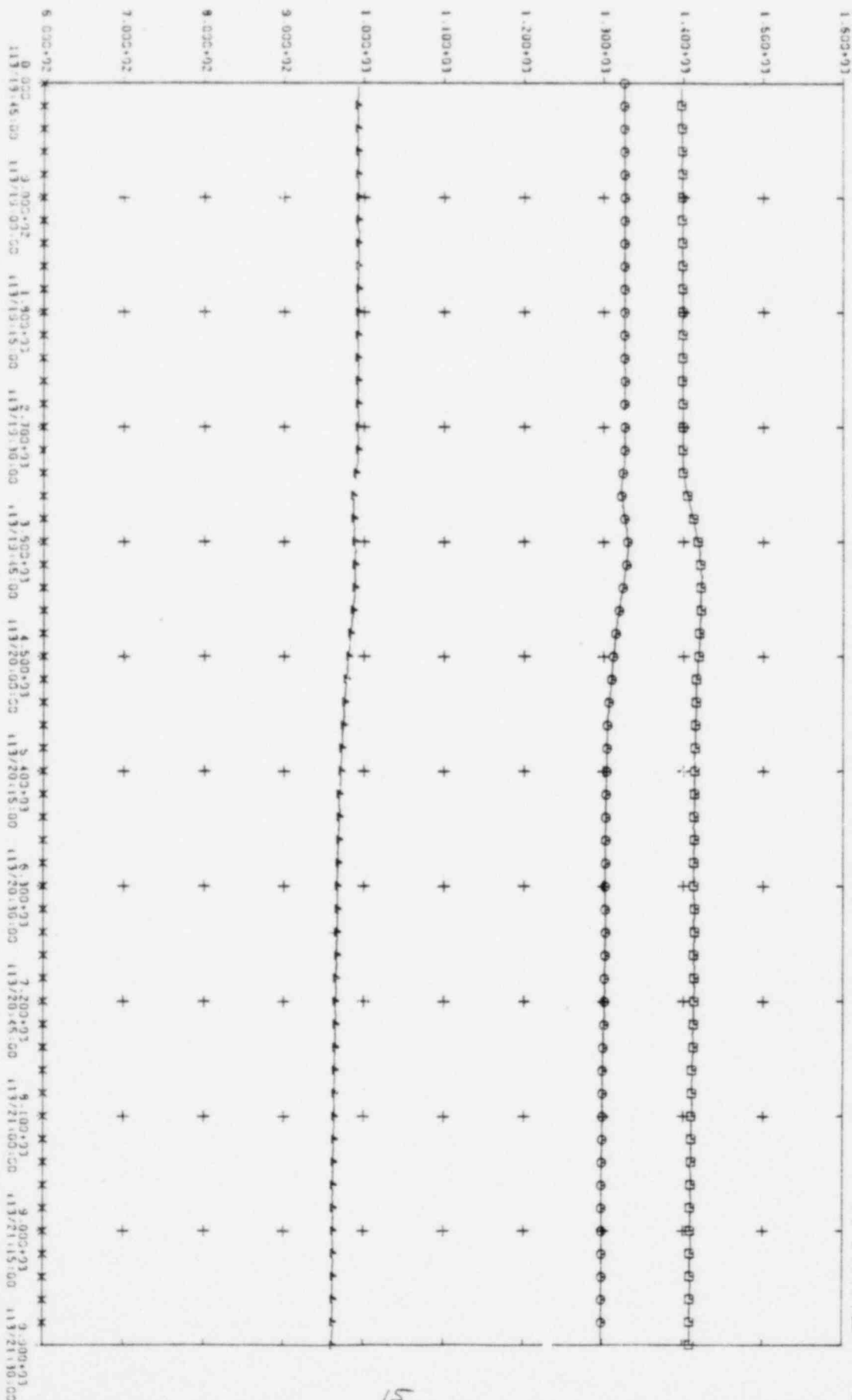
207	FF	TC	7	TRVRSING	TC	(DEC F)	1.000+00
208	FF	TC	8	TRVRSING	TC	(DEC F)	1.000+00
209	FF	TC	9	TRVRSING	TC	(DEC F)	1.000+00
210	FF	TC	10	TRVRSING	TC	(DEC F)	1.000+00



CFDS - 4/23/81 - 1845 TO 2130

FRAME 4

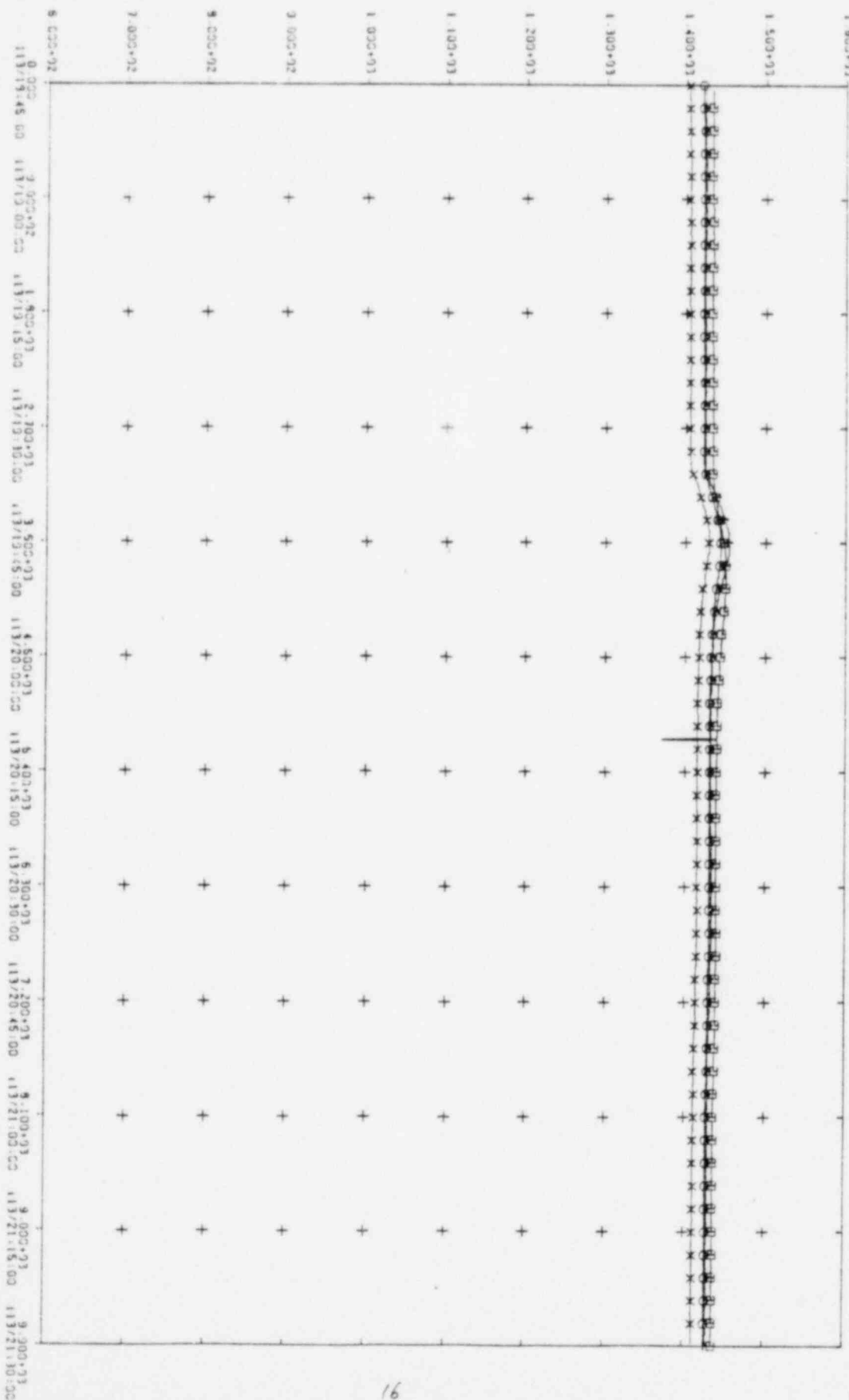
STRING E 4
 211 FM TC 11 TRAVERSING TC 1000 F1 1 * 2.000+00/ 1.000+00
 212 FM TC 12 TRAVERSING TC 1000 F1 1 * 1.500+01/ 1.000+00
 213 FM TC 13 TRAVERSING TC 1000 F1 1 * 7.000+00/ 1.000+00
 0214 FM TC 14 TRAVERSING TC 1000 F1



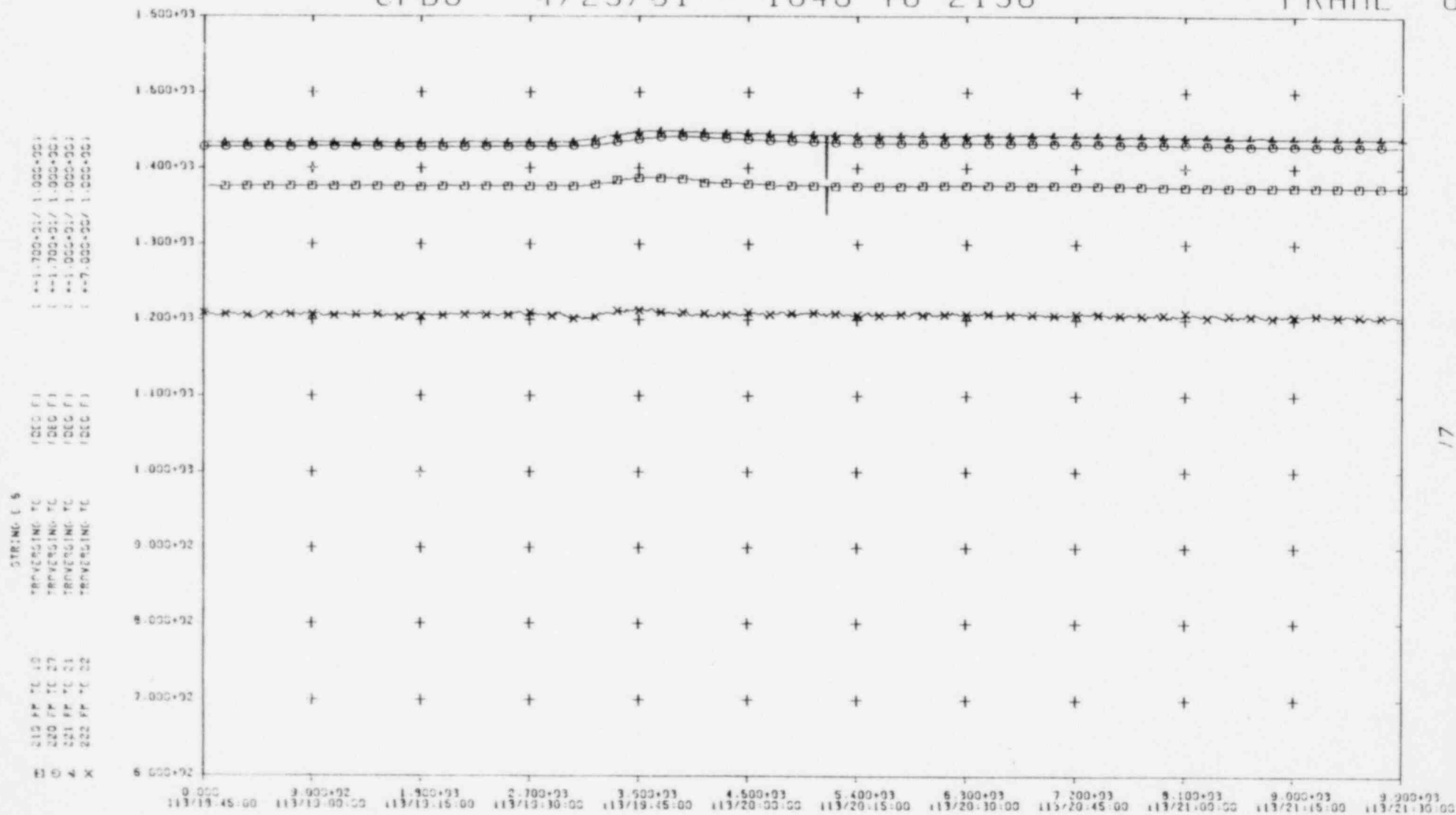
CFDS - 4/23/81 - 1845 TO 2130

FRAME 5

215 FM TC 15	TRVRSING TC	(DEC F)	1.000+01/ 1.000+00
215 FM TC 15	TRVRSING TC	(DEC F)	1.000+01/ 1.000+00
217 FM TC 17	TRVRSING TC	(DEC F)	1.000+01/ 1.000+00
219 FM TC 19	TRVRSING TC	(DEC F)	1.000+01/ 1.000+00



FRAME 6



7

FRAME 7

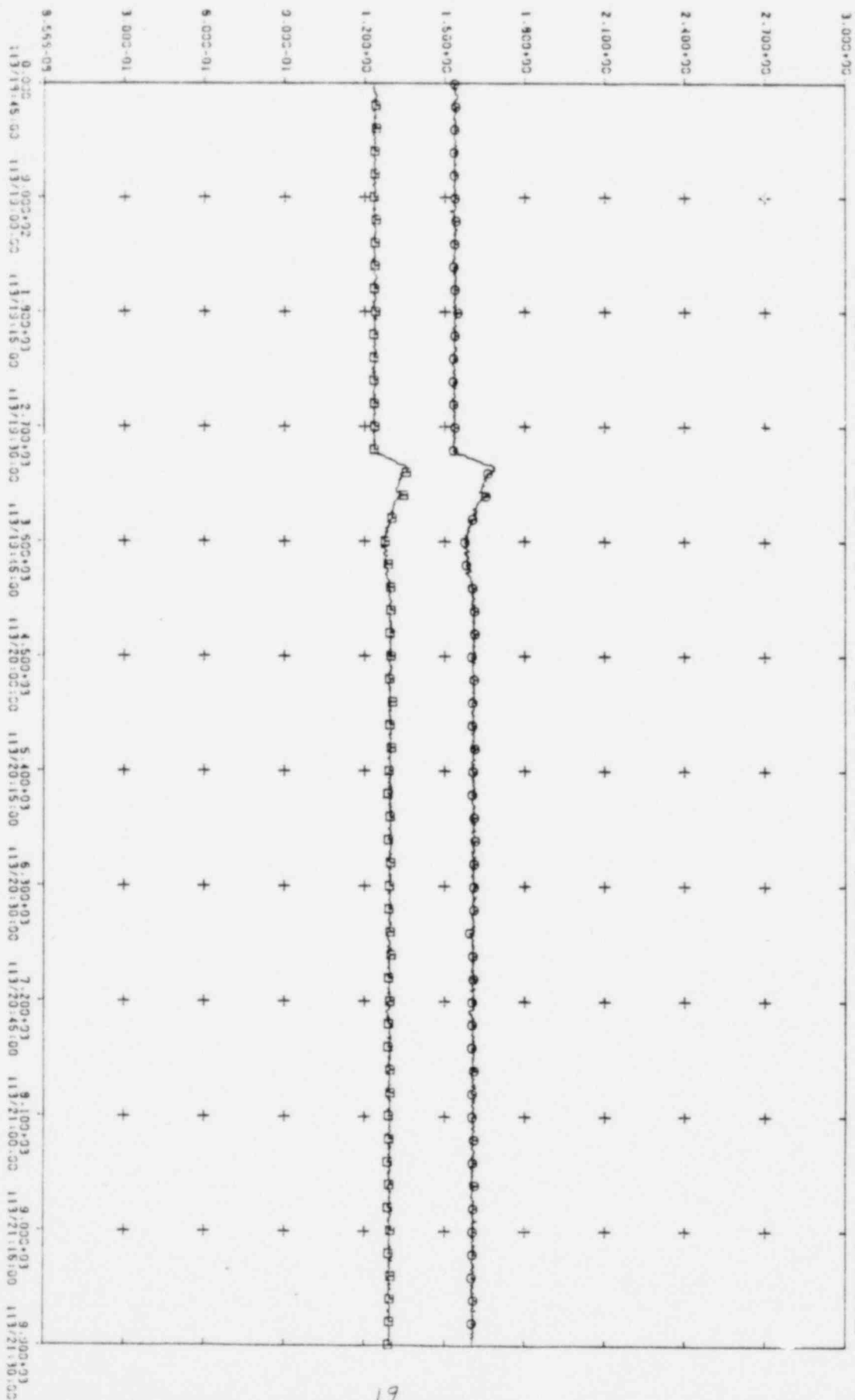
```

1  +=1.500+01/ 1.000+00)
1  +=1.400+01/ 1.000+00)
1  +=5.000+00/ 1.000+00)

```

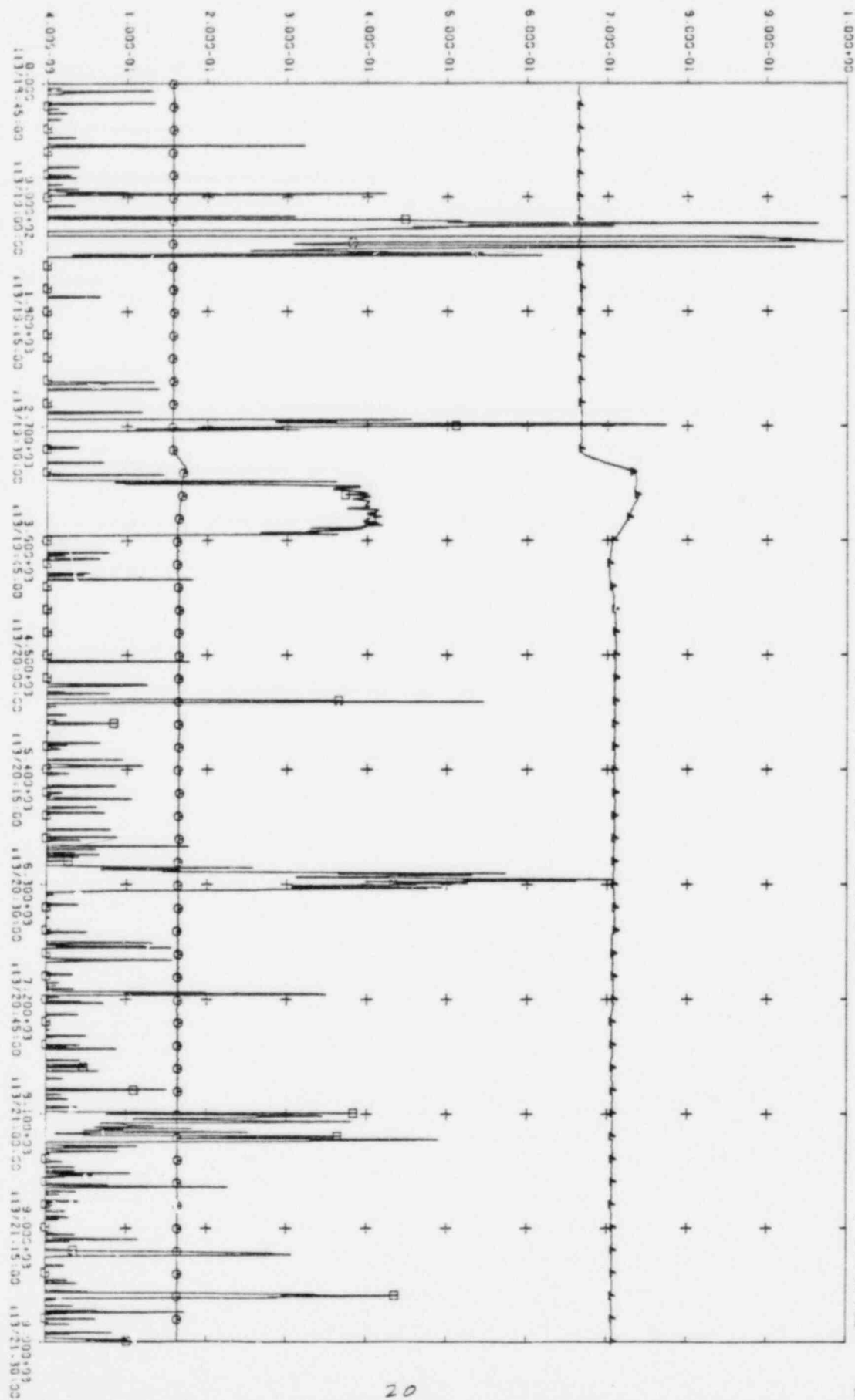
CFDS - 4/23/81 - 1845 TO 2130

FRAME 7



0714 FM CPL 20
0713 FM FC 20
0711 FM ND 20

FISSION COUPLE S/N 20 (MILLIVOLT)
FISSION CHAMBER S/N 20 (MILLIAMPS)
SPND S/N 20 (MICROAMPS) 1 + 0.000 / 3.000+00

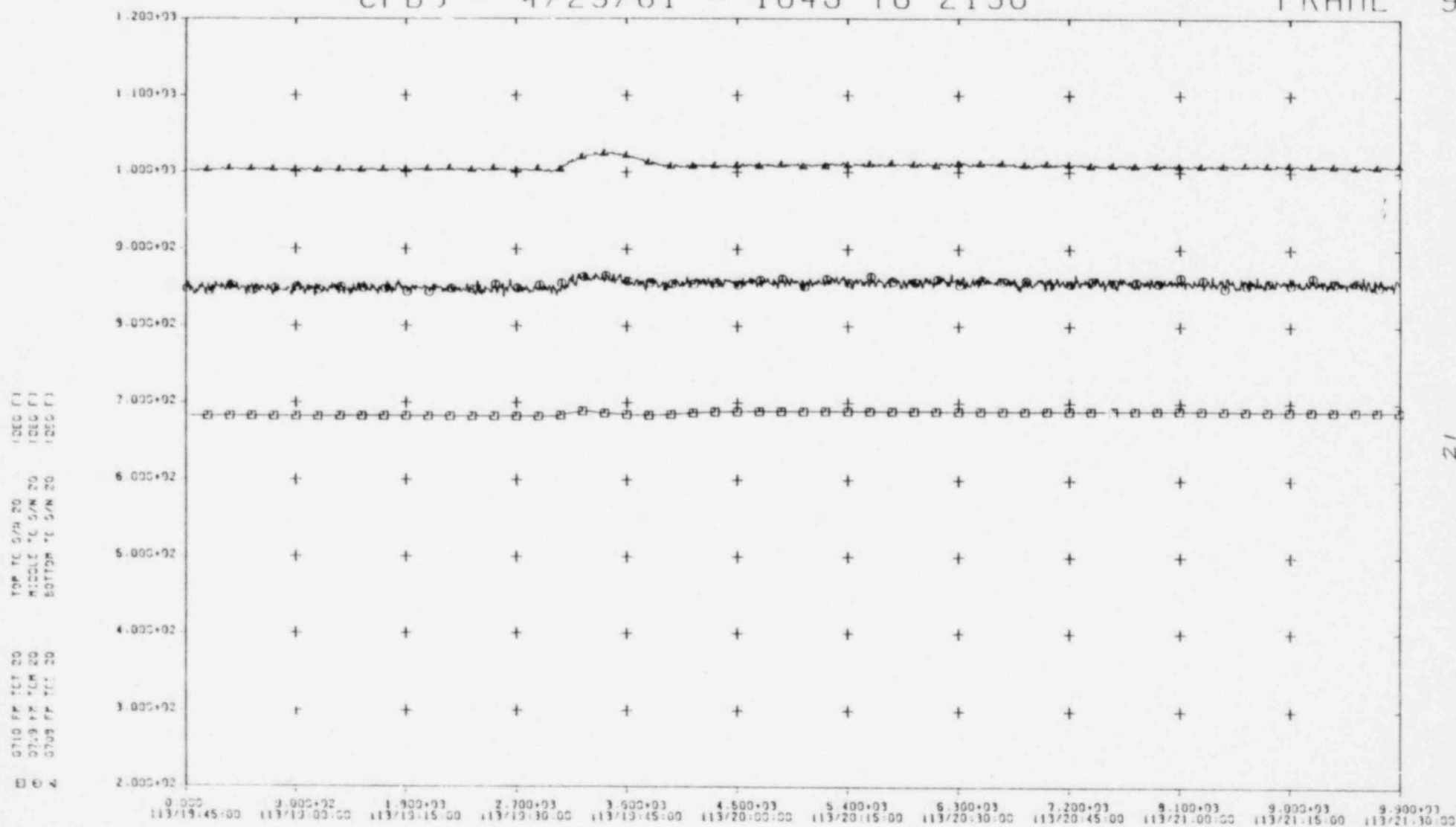


CFDS - 4/23/81 - 1845 10 2130

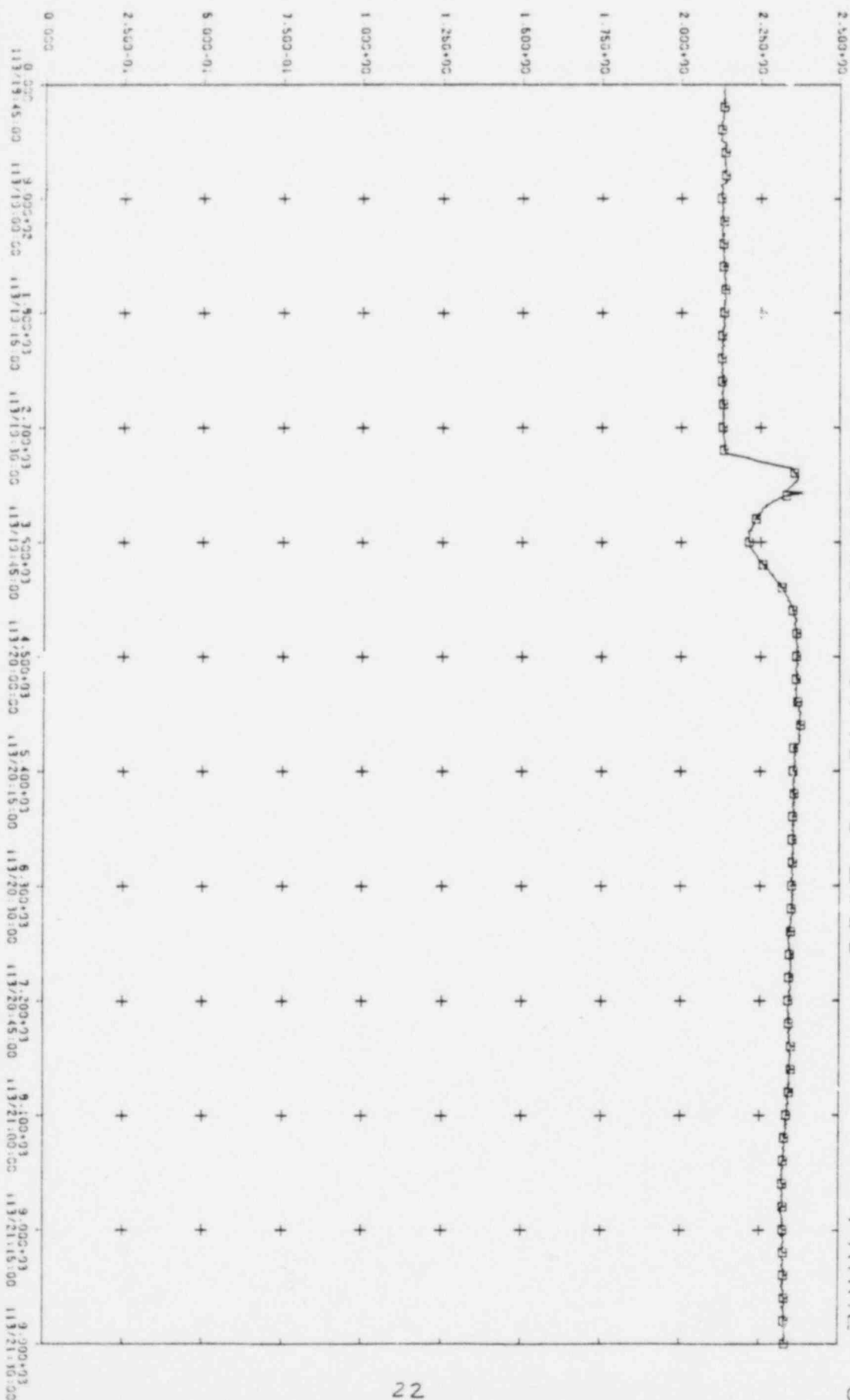
FRAME 8

CFDS - 4/23/81 - 1845 TO 2130

FRAME 9



FRAME 9

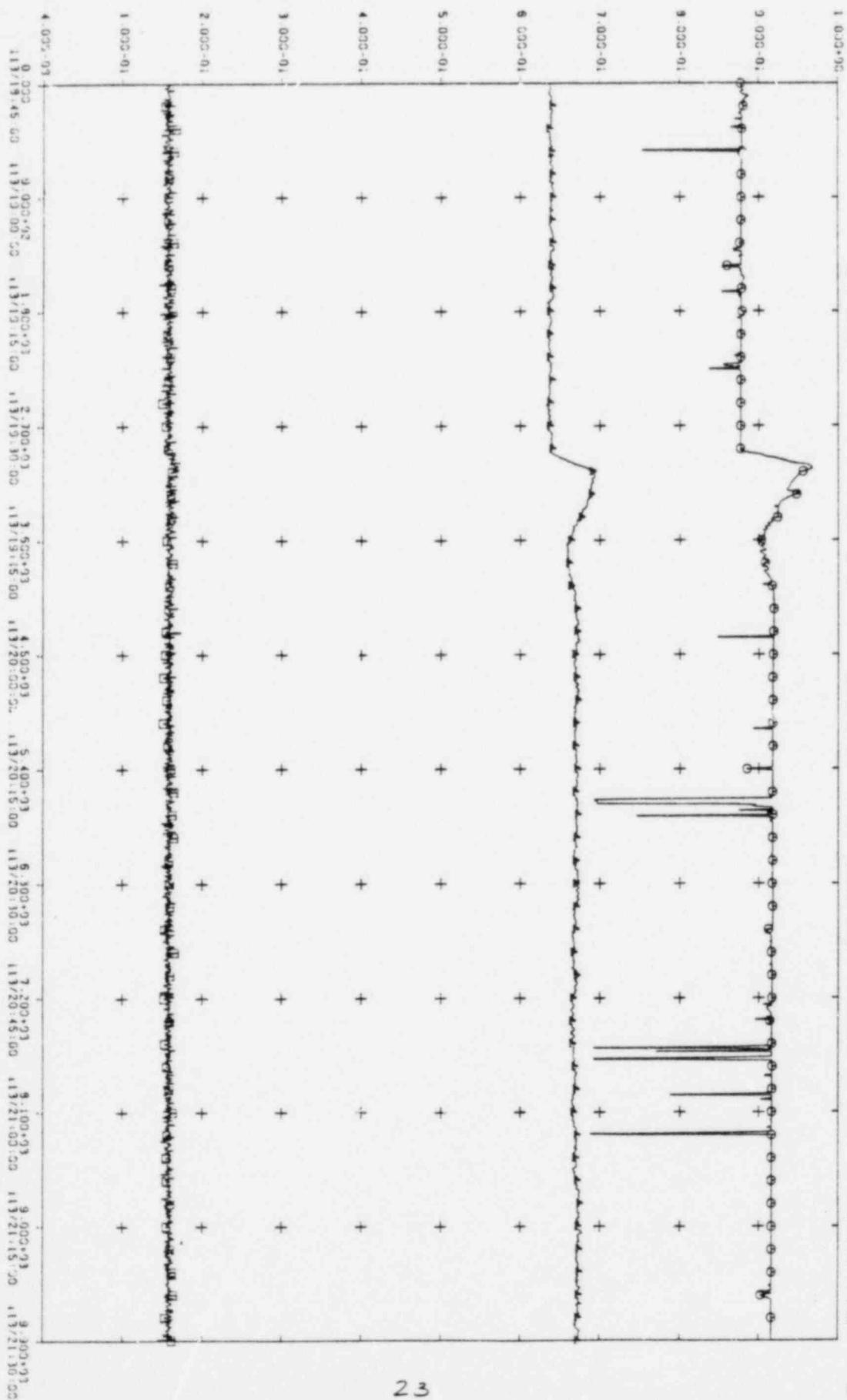


0914 FM CPL 43
013 FM FC 43
911 FM NC 43

FISSION COUPLE G/N 43 (MILLIVOLT) (+ 0.000 / 1.000-00)
FISSION CHAMBER G/N 43 (MILLIAMPS) (+ 0.000 / 2.000-00)
SPND G/N 43 (MICROAMPS) (+ 0.000 / 2.000-00)

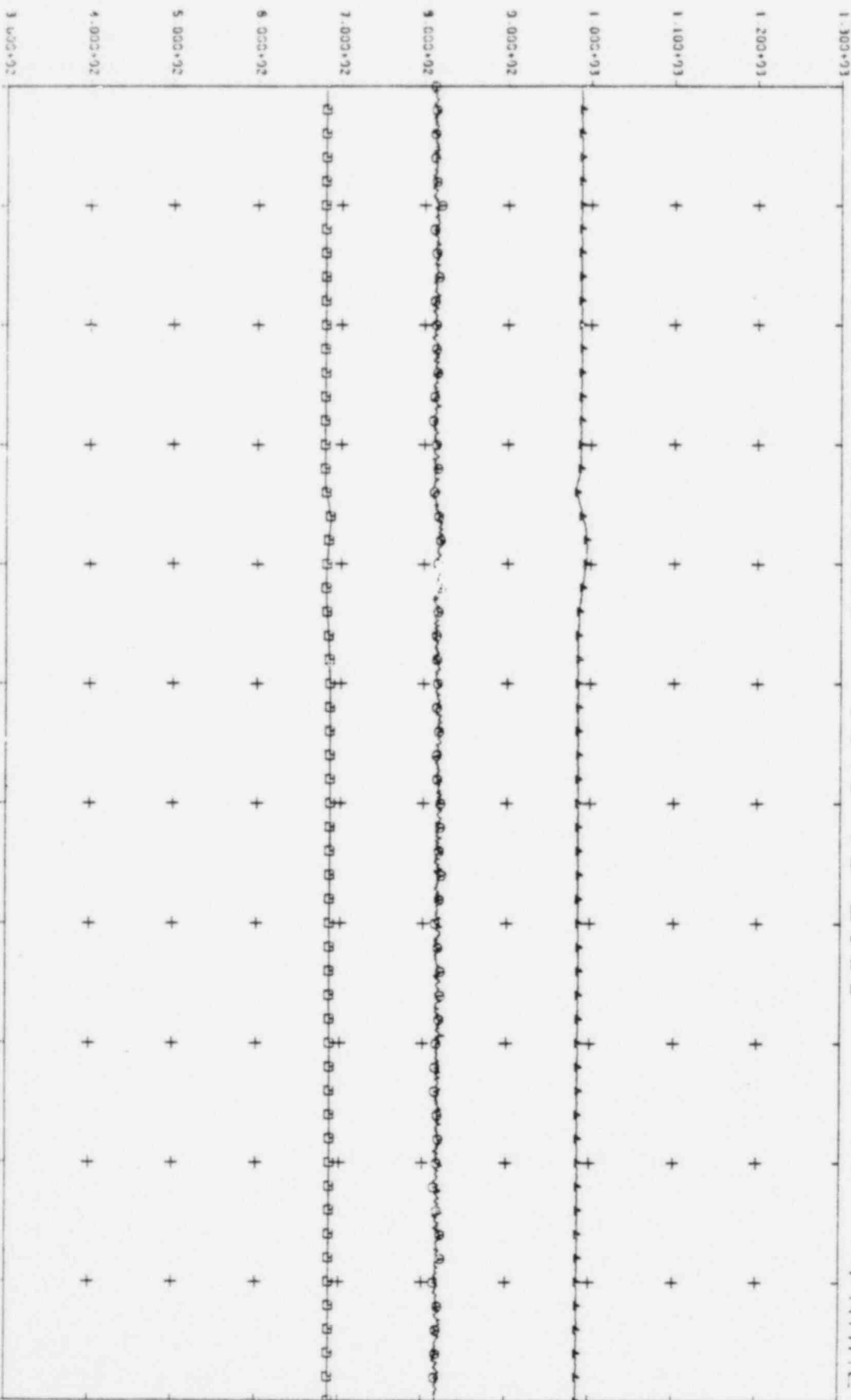
CFDS - 4/23/81 - 1845 TO 2130

FRAME 8



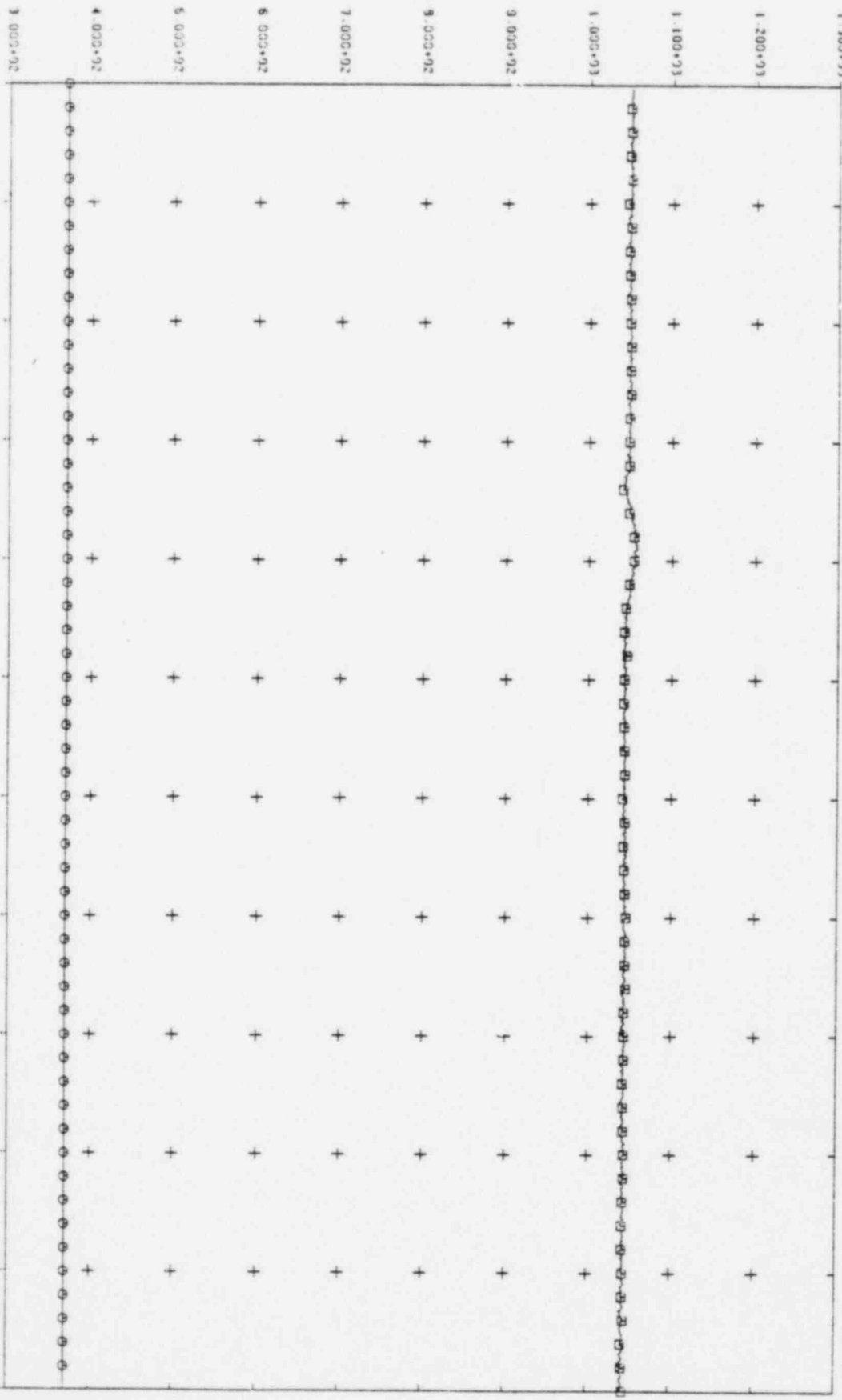
CFDS - 4/23/81 - 1845 TO 2130

FRAME 10



CFDS - 4/23/81 - 1845 TO 2130

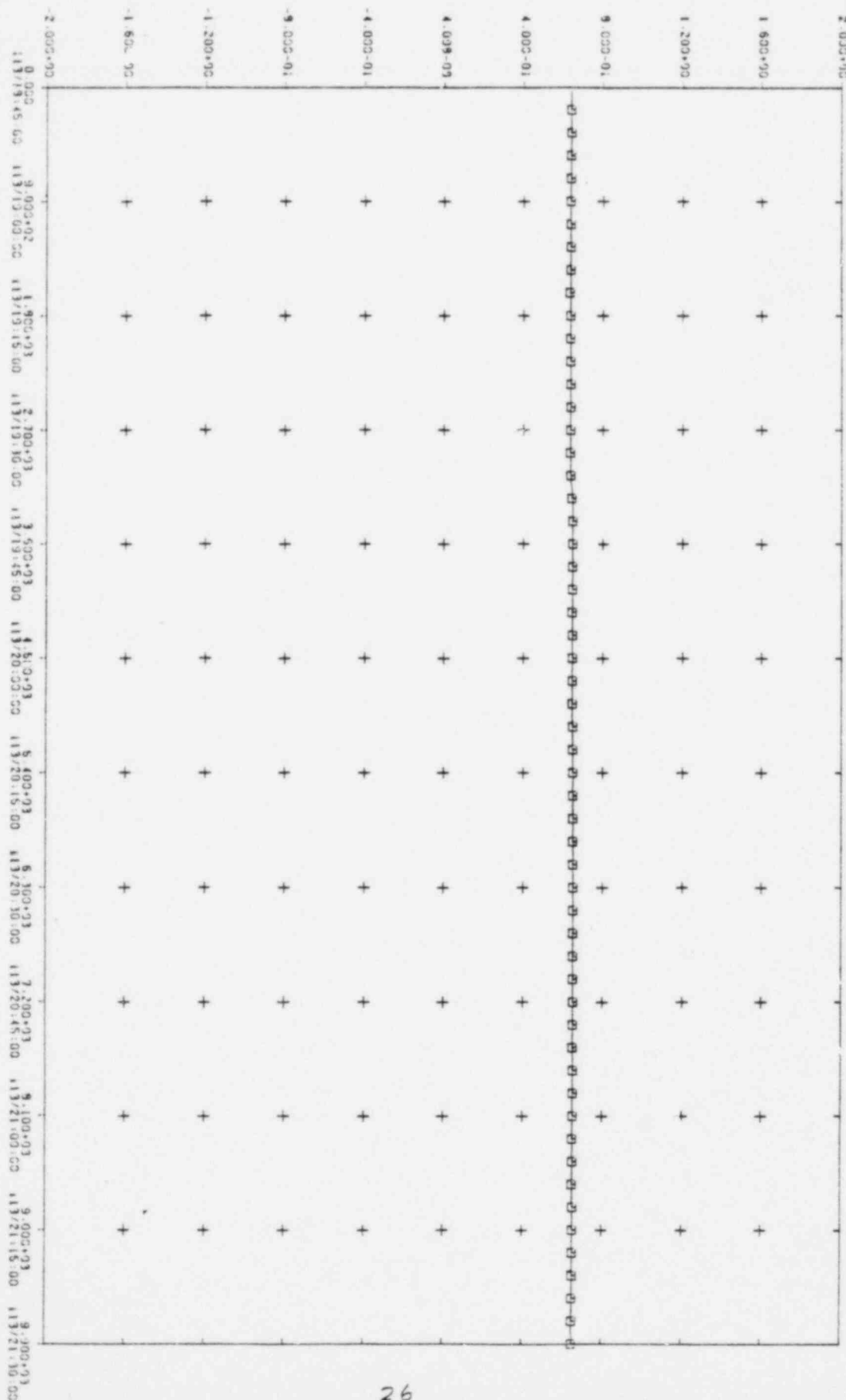
FRAME 13



1210 FM TCU 43 U TC S/N 43 1000 F1
1212 FM TCU 43 M TC S/N 43 1000 F1
E 0

CFDS - 4/23/81 - 1845 TO 2.30

FRAME 11



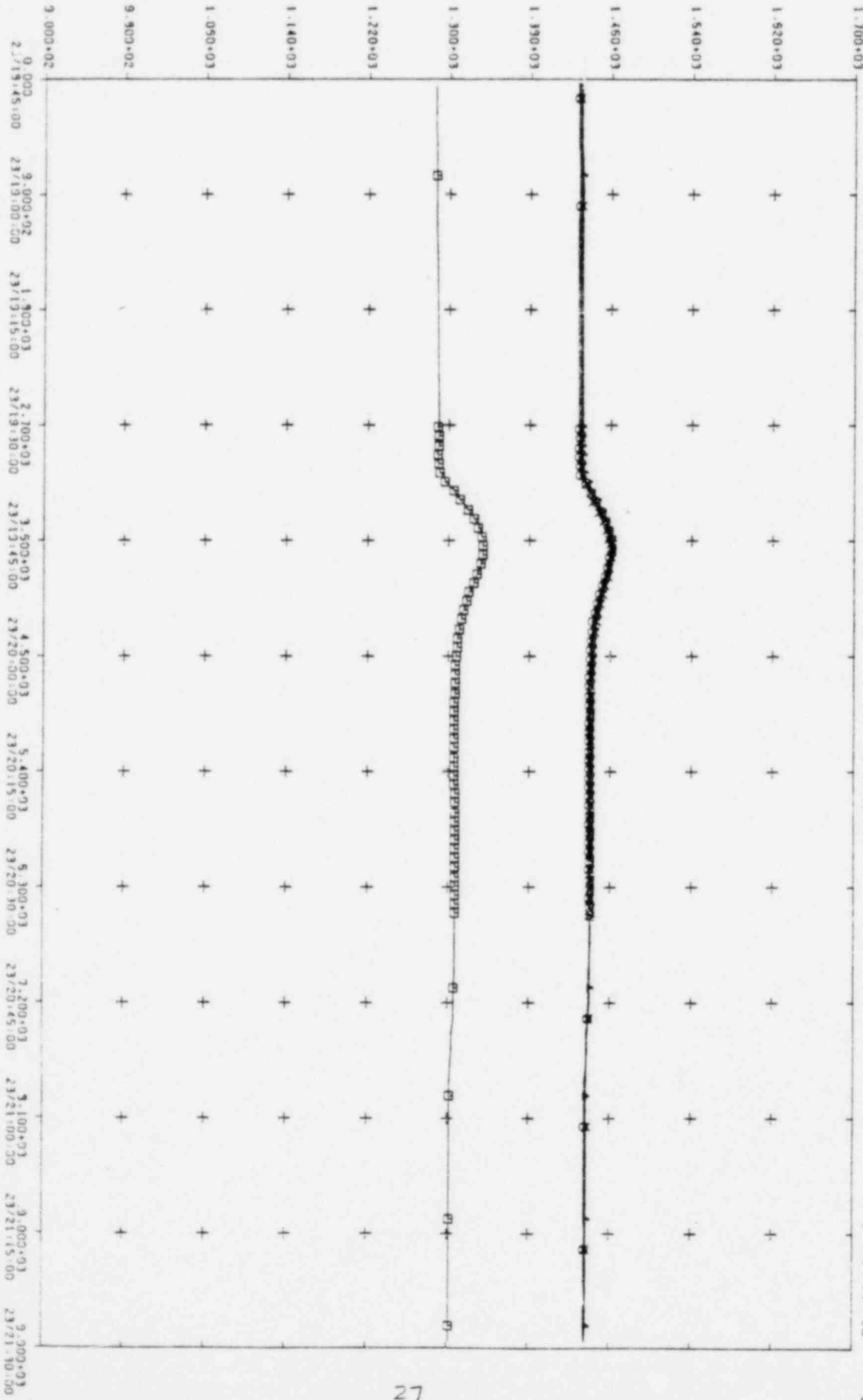
MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 1

REGIONS 1-4 EXIT GAS TEMPERATURES

075 DL	TE11101-1	RON 1 CORE	OUT GAS TEMP	DEG-F
075 DL	TE11102-1	RON 2 CORE	OUT GAS TEMP	DEG-F
077 DL	TE11103-1	RON 3 CORE	OUT GAS TEMP	DEG-F
079 DL	TE11104-1	RON 4 CORE	DEG-F	



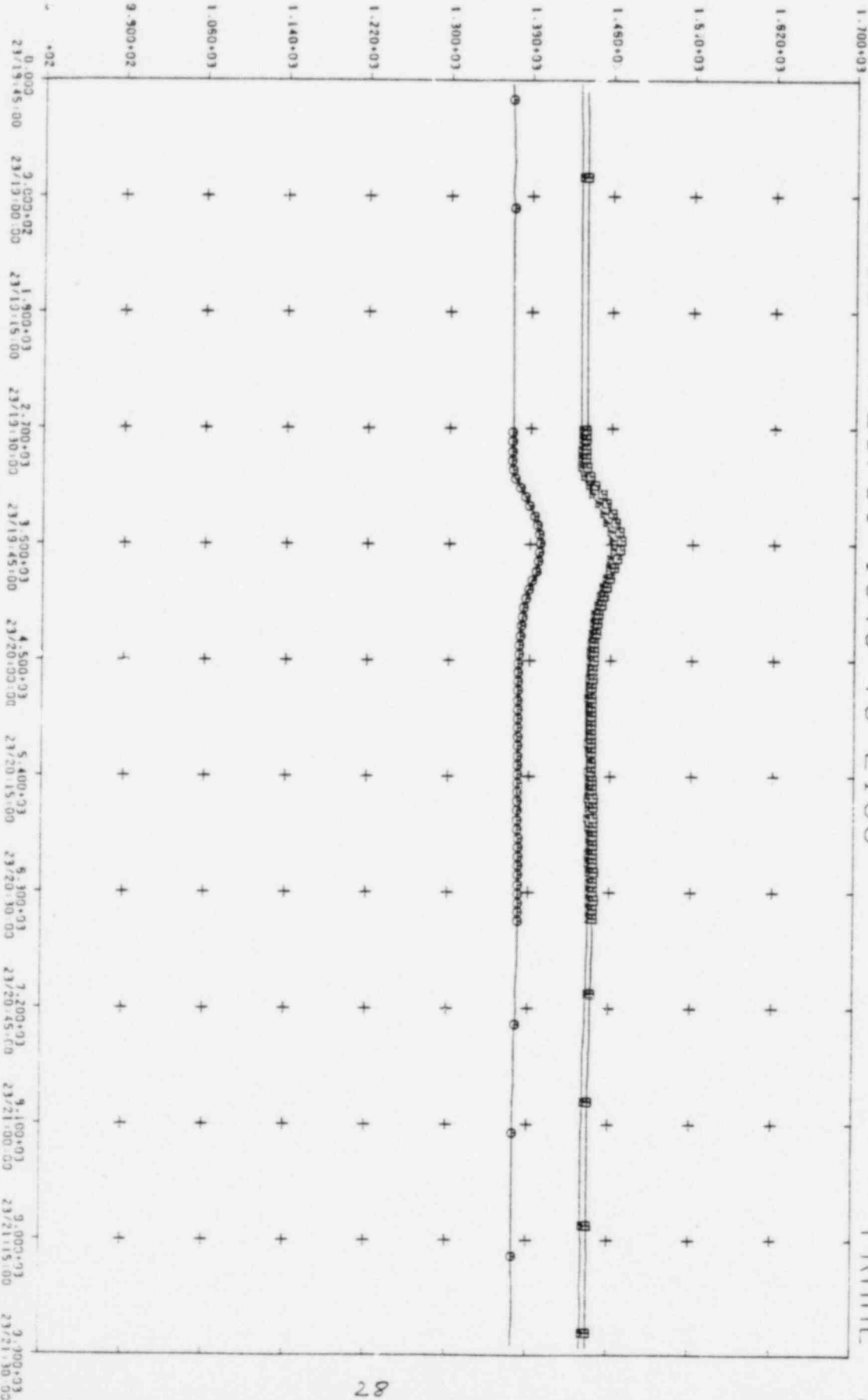
MO 04

REGIONS 5-7 EXIT GAS TEMPERATURES

073 DL TEL1105-1 RGN 5 CORE OUT GAS TEMP DEG-F
 090 DL TEL1105-1 RGN 6 CORE OUT GAS TEMP DEG-F
 091 DL TEL1107-1 RGN 7 CORE OUT GAS TEMP DEG-F

SG/DL 4/23/81 1845 TO 2130

FRAME 2



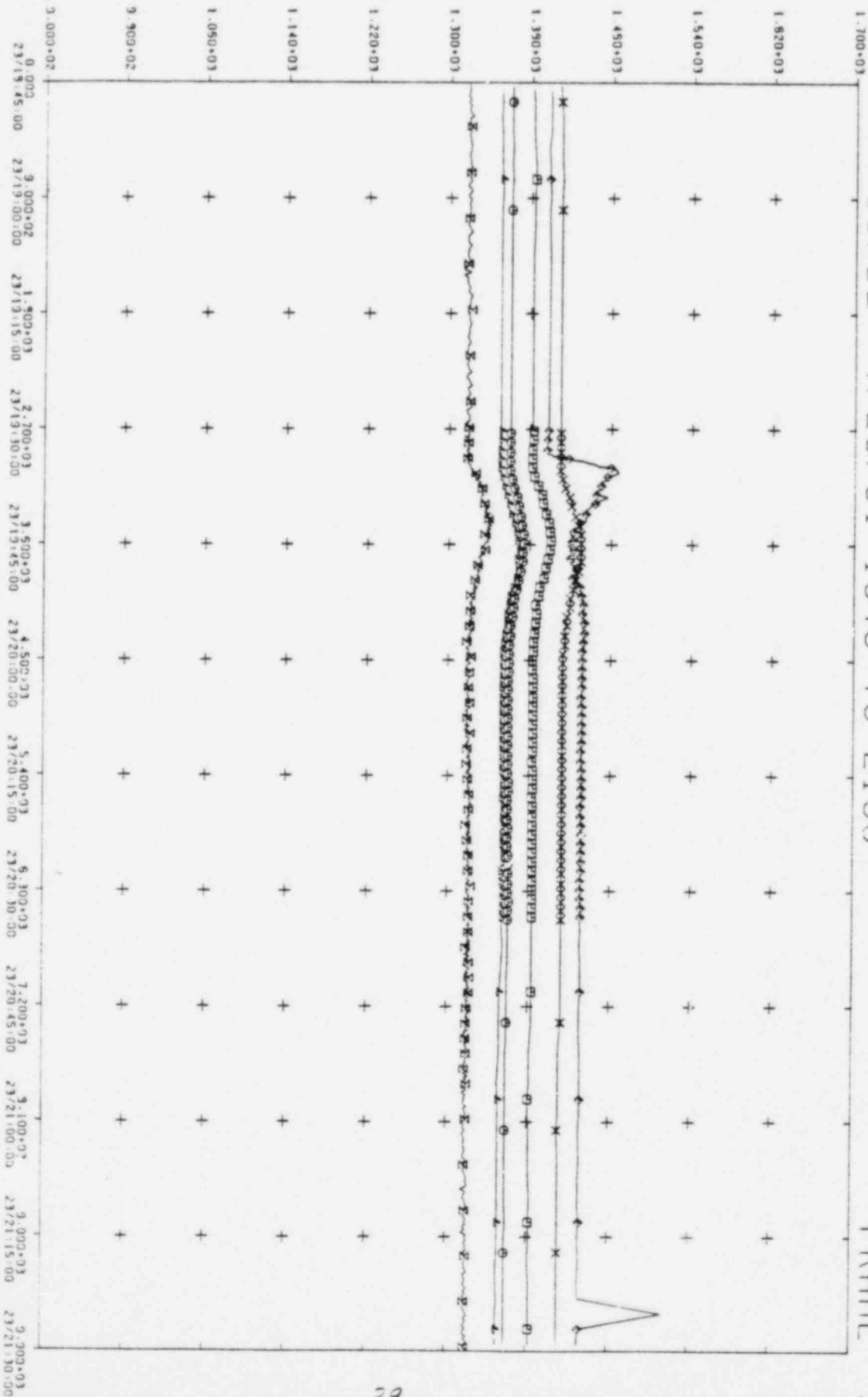
MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 3

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-1-1

102 DL TE11129-1 RON 29 CORE OUT GAS TEMP DEG-F
 103 DL TE11129-1 RON 23 CORE OUT GAS TEMP DEG-F
 095 DL TE11114-1 RON 14 CORE OUT GAS TEMP DEG-F
 097 DL TE11113-1 RON 10 CORE OUT GAS TEMP DEG-F
 009 DL NIM1139 LINEAR PWR CHAN 9 (PERCENT * 7.000+01/ 1.000+01)
 433 SO B-1-1 AVE HE INLET TEMP CALC



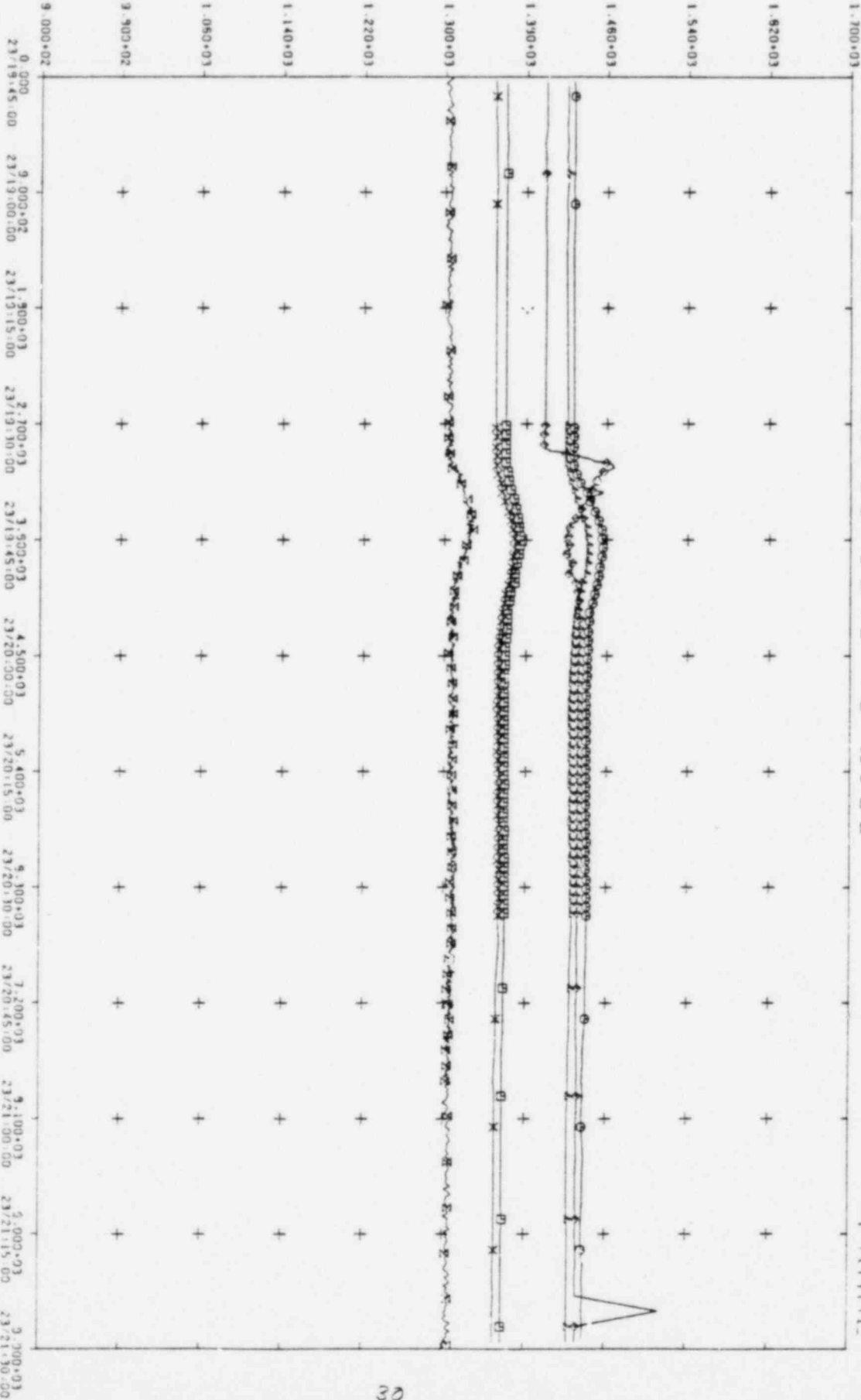
MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 4

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR 8-1-2

103 DL TE11129-1 RGN 23 CORE OUT GAS TEMP DEG-F
 104 DL TE11130-1 RGN 30 CORE OUT GAS TEMP DEG-F
 099 DL TE11115-1 RGN 15 CORE OUT GAS TEMP DEG-F
 099 DL TE11114-1 RGN 14 CORE OUT GAS TEMP DEG-F
 009 CL NIM1139 LINEAR PWR CHAN 9 1 PERCENT * 7.000+01/ 1.000-011
 434 SO 8-1-2 AVE HE INLET TEMP CALC



MO 04

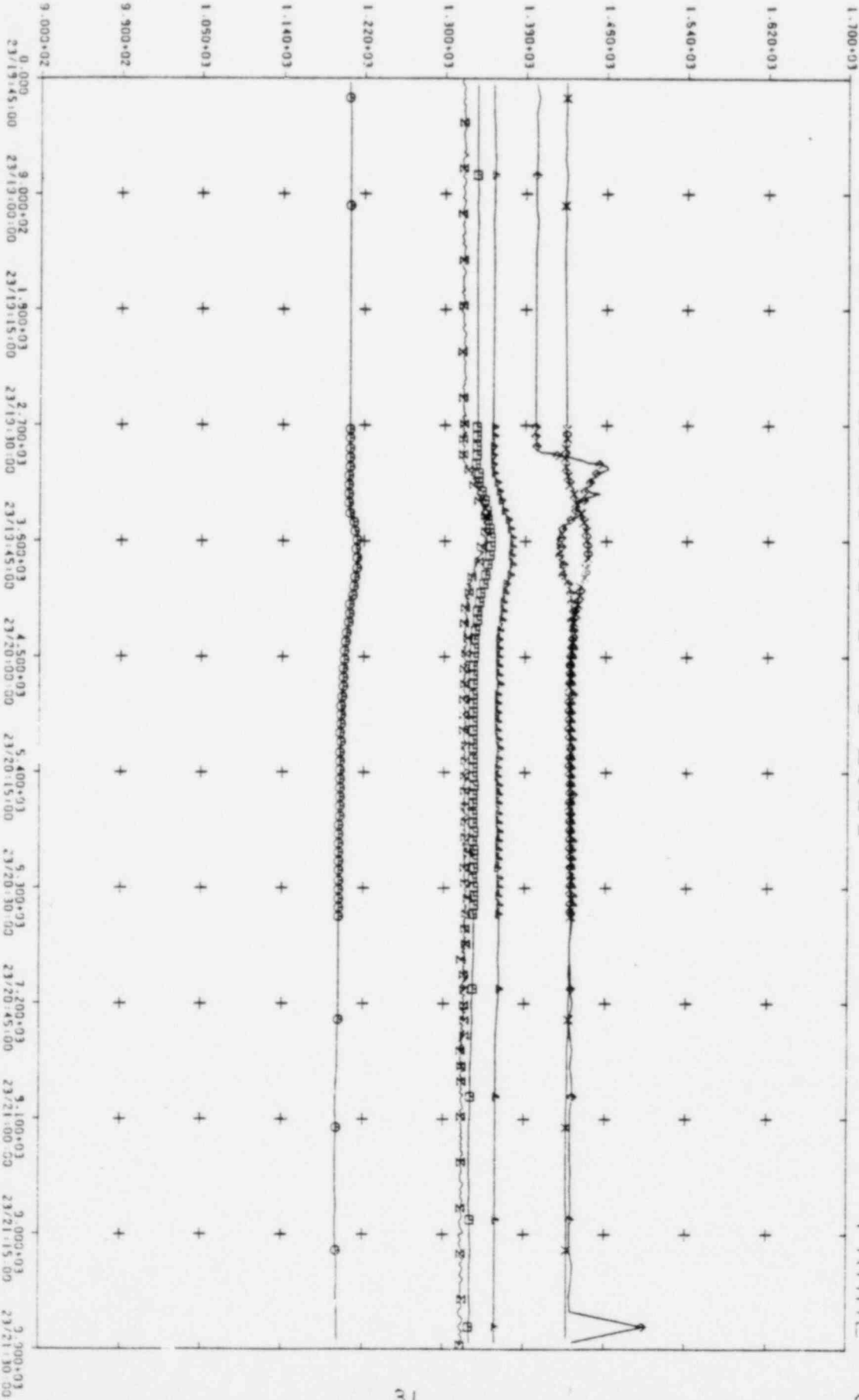
SG/DL 4/23/81 1845 TO 2130

FRAME 5

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-1-3

105 DL	TE11131-1	ROM 31 CORE	OUT GAS TEMP	DEG-F
105 DL	TE11132-1	ROM 32 CORE	OUT GAS TEMP	DEG-F
090 DL	TE11116-1	ROM 16 CORE	OUT GAS TEMP	DEG-F
099 DL	TE11115-1	ROM 15 CORE	OUT GAS TEMP	DEG-F
004 DL	NIM1134-4	LINEAR PWR	CHRY 4	PERCENT
435 SO	B-1-3	AVE HE	INLET TEMP	CALC

* 7.000+01/ 1.000+01



MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 6

CAS OUTLET, LINEAR PWR, AVE HE INLT NEAR 8-1-4

105 DL TE11132-1 RGN 32 CORE OUT CAS TEMP DEG-F
 107 DL TE11133-1 RGN 33 CORE OUT CAS TEMP DEG-F
 091 DL TE11117-1 RGN 17 CORE OUT CAS TEMP DEG-F
 090 DL TE11115-1 RGN 15 CORE OUT CAS TEMP DEG-F
 004 DL NIM1134-4 LINEAR PWR CHAN 4 1 PERCENT * 7.000+01/ 1.000-011
 435 00 5-1-4 AVE HE INLET TEMP CALC



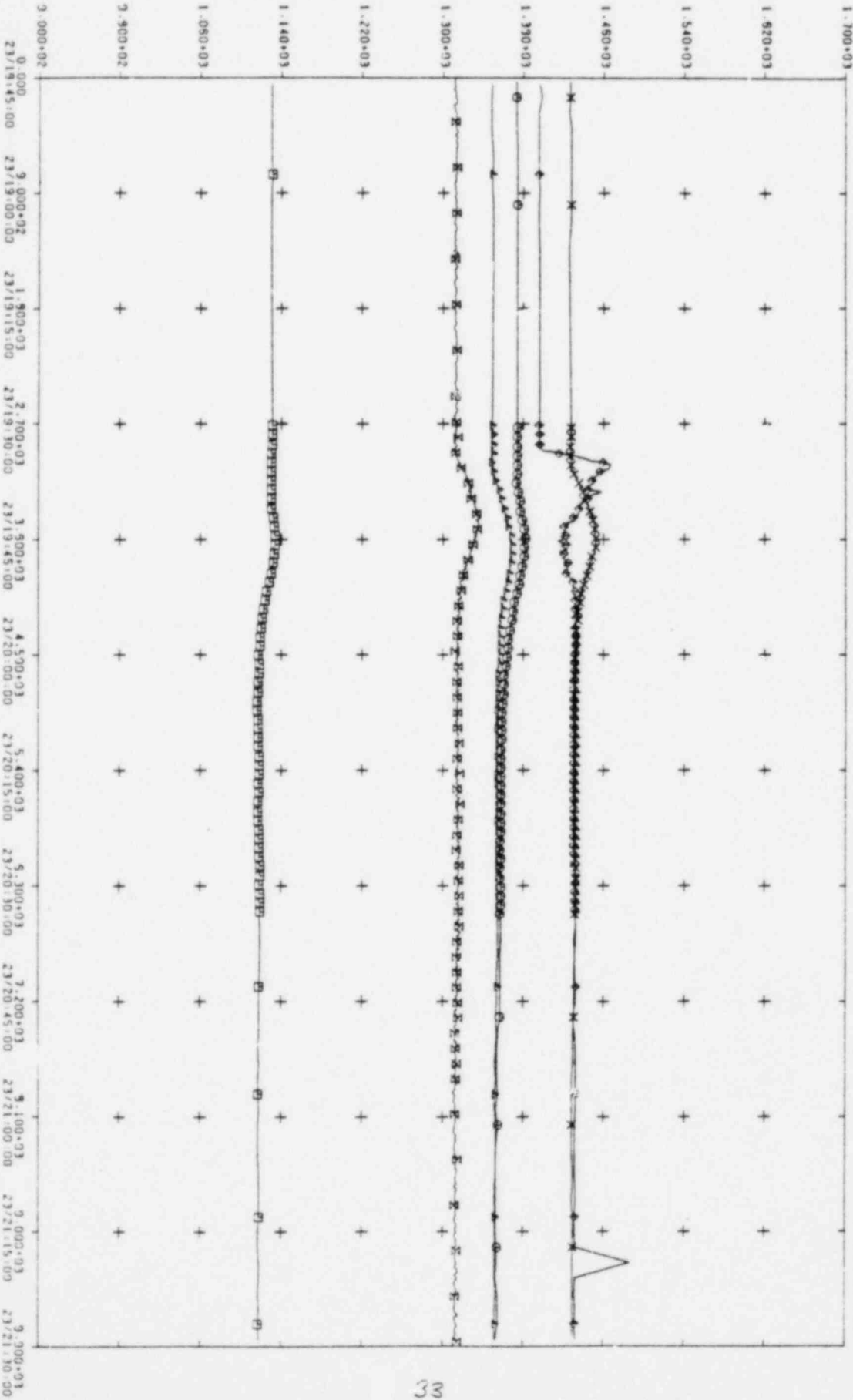
MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 7

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-1-5

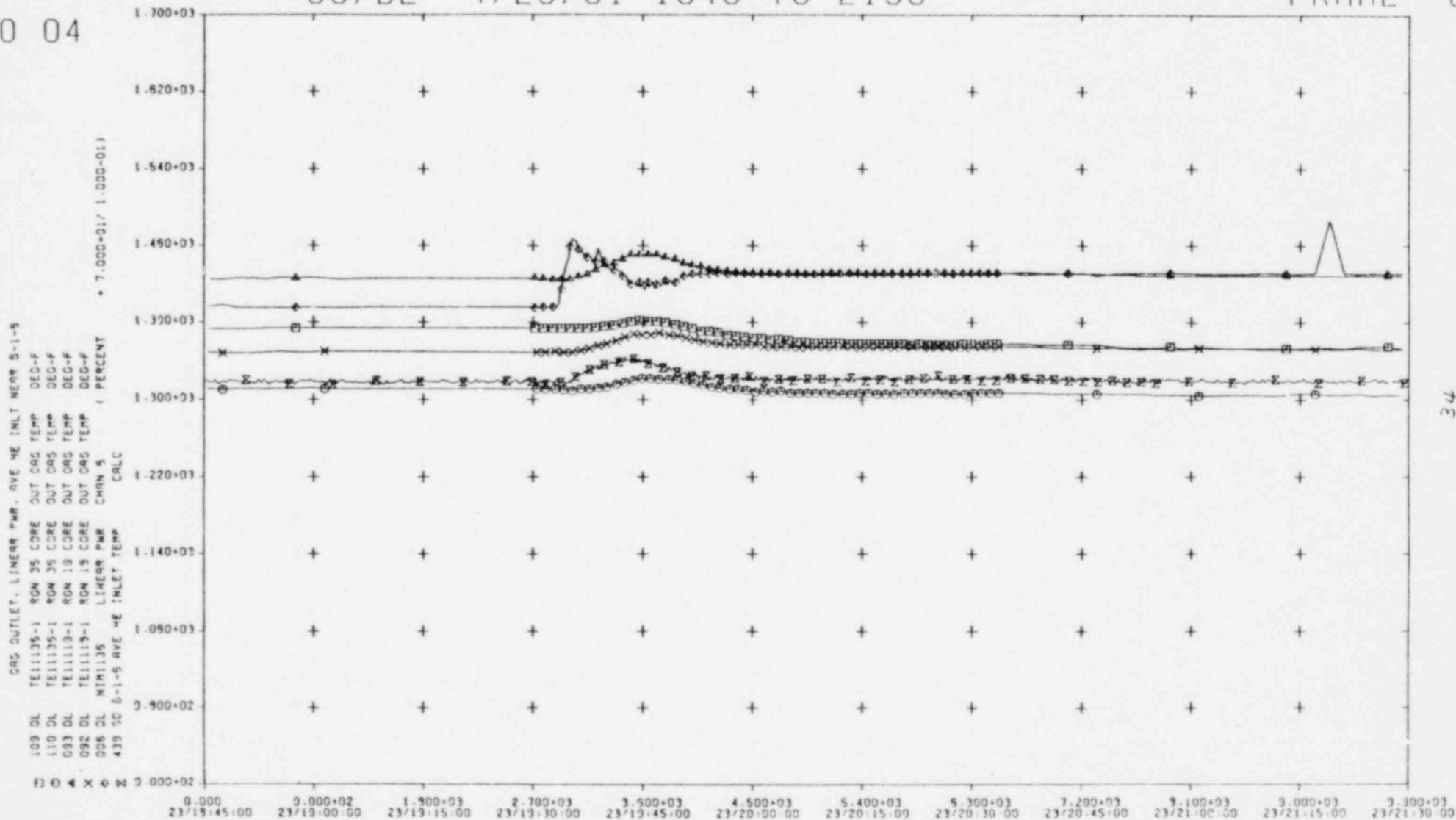
109 DL TE11134-1 RGN 34 CORE OUT GAS TEMP DEG
 109 DL TE11135-1 RGN 35 CORE OUT GAS TEMP DEG
 092 DL TE11119-1 RGN 19 CORE OUT GAS TEMP DEG
 091 DL TE11117-1 RGN 17 CORE OUT GAS TEMP DEG
 005 DL WIM1135 LINEAR PWR CHAN 5 PERCENT + 7.000-01/ 1.000-01
 437 SO B-1-5 AVE HE INLET TEMP CALC



MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 8



34

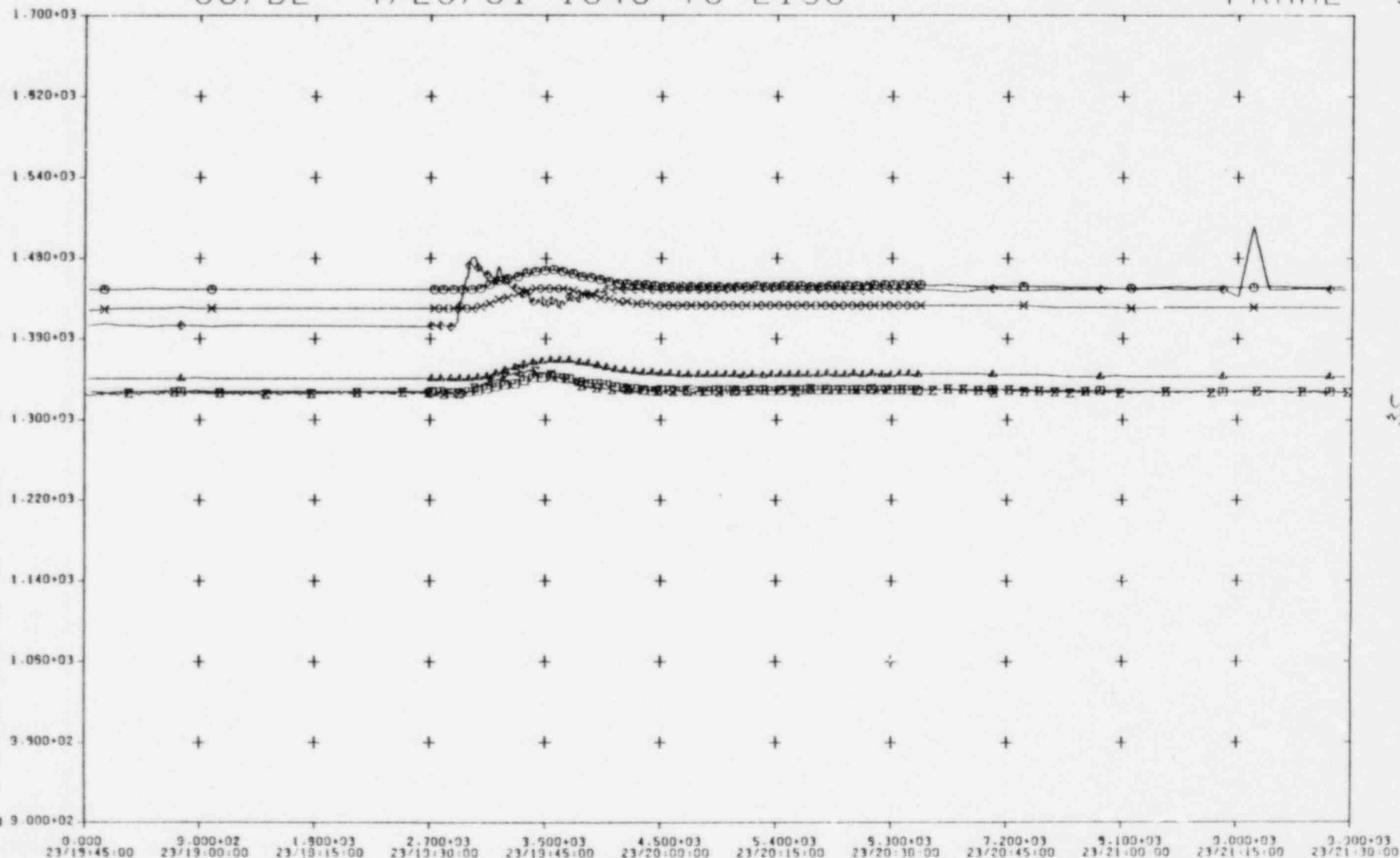
MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 9

ORG OUTLET, LINEAR PMR, AVE HE INLT NEAR B-2-1
 100 DL TEL1125-1 ROM 05 CORE OUT CAG TEMP DEC-F
 101 DL TEL1127-1 ROM 27 CORE OUT CAG TEMP DEC-F
 096 DL TEL1112-1 ROM 12 CORE OUT CAG TEMP DEC-F
 097 DL TEL1113-1 ROM 13 CORE OUT CAG TEMP DEC-F
 503 DL NIM1133-3 LINEAR PMR CHAN 3
 437 CO B-2-1 AVE HE INLET TEMP CALC

* 7.000+01/ 1.000-011



3

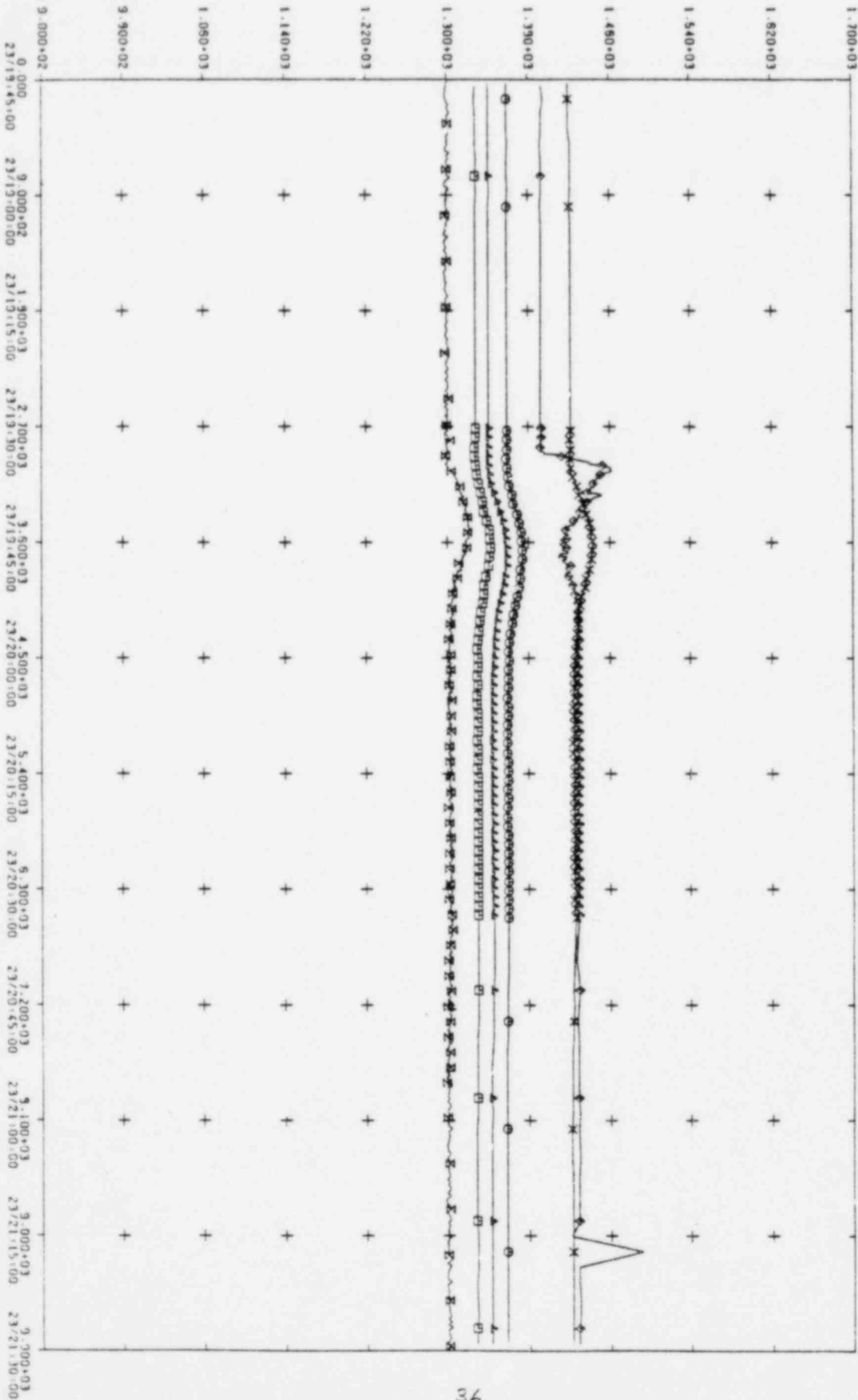
MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 10

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR S-2-2

100 DL TE11125-1 ROM 25 CORE OUT GAS TEMP DEG-F
 099 DL TE11125-1 ROM 25 CORE OUT GAS TEMP DEG-F
 098 DL TE11112-1 ROM 12 CORE OUT GAS TEMP DEG-F
 095 DL TE11111-1 ROM 11 CORE OUT GAS TEMP DEG-F
 003 DL NIM1133-3 LINEAR PWR CHAN 3 PERCENT * 7.000-01/ 1.000-011
 440 GO S-2-2 AVE HE INLET TEMP CALC



MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 11

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-2-3

009 DL TE11124-1 RGN 24 CORE OUT GAS TEMP DEG-F
 007 DL TE11123-1 RGN 23 CORE OUT GAS TEMP DEG-F
 095 DL TE11111-1 RGN 11 CORE OUT GAS TEMP DEG-F
 094 DL TE11110-1 RGN 10 CORE OUT GAS TEMP DEG-F
 007 DL NIM1137 LINEAR PWR CHAN 7 (PERCENT * 7.000+01/ 1.000+01)
 441 00 B-2-3 AVE HE INLET TEMP CALC



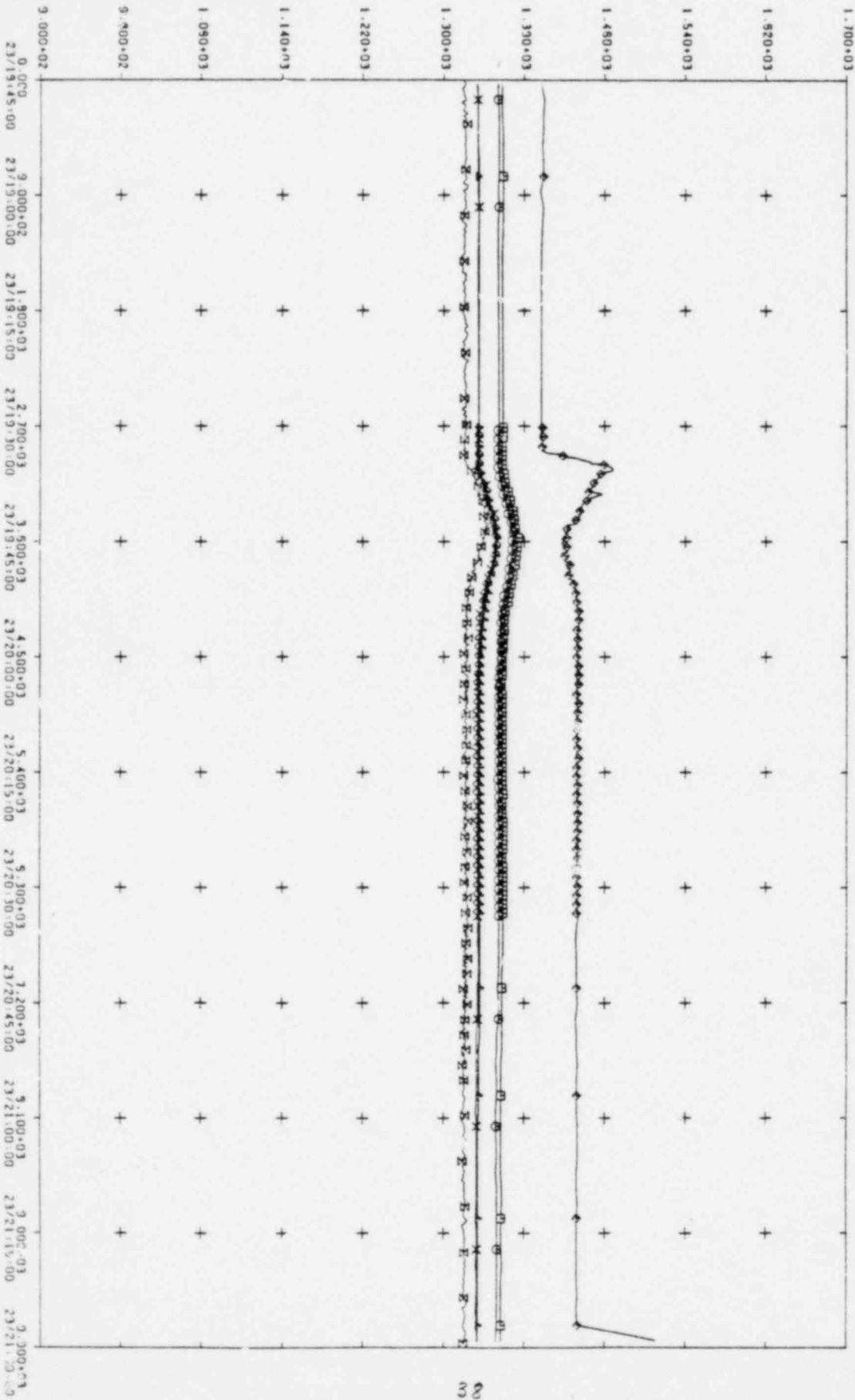
MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 12

CAS OUTLET, LINEAR PWR, AVE HE INLT NEAR S-2-4

095 DL TE11122-1 RGN 22 CORE 1 CAS TEMP DEG-F
097 DL TE11123-1 RGN 23 CORE OUT CAS TEMP DEG-F
094 DL TE11110-1 RGN 10 CORE OUT CAS TEMP DEG-F
093 DL TE11109-1 RGN 9 CORE OUT CAS TEMP DEG-F
007 DL NIM1137 LINEAR PWR CHAN 7 (PERCENT + 7.000-01/ 1.000-01)
442 CG S-2-4 AVE HE INLET TEMP CALC

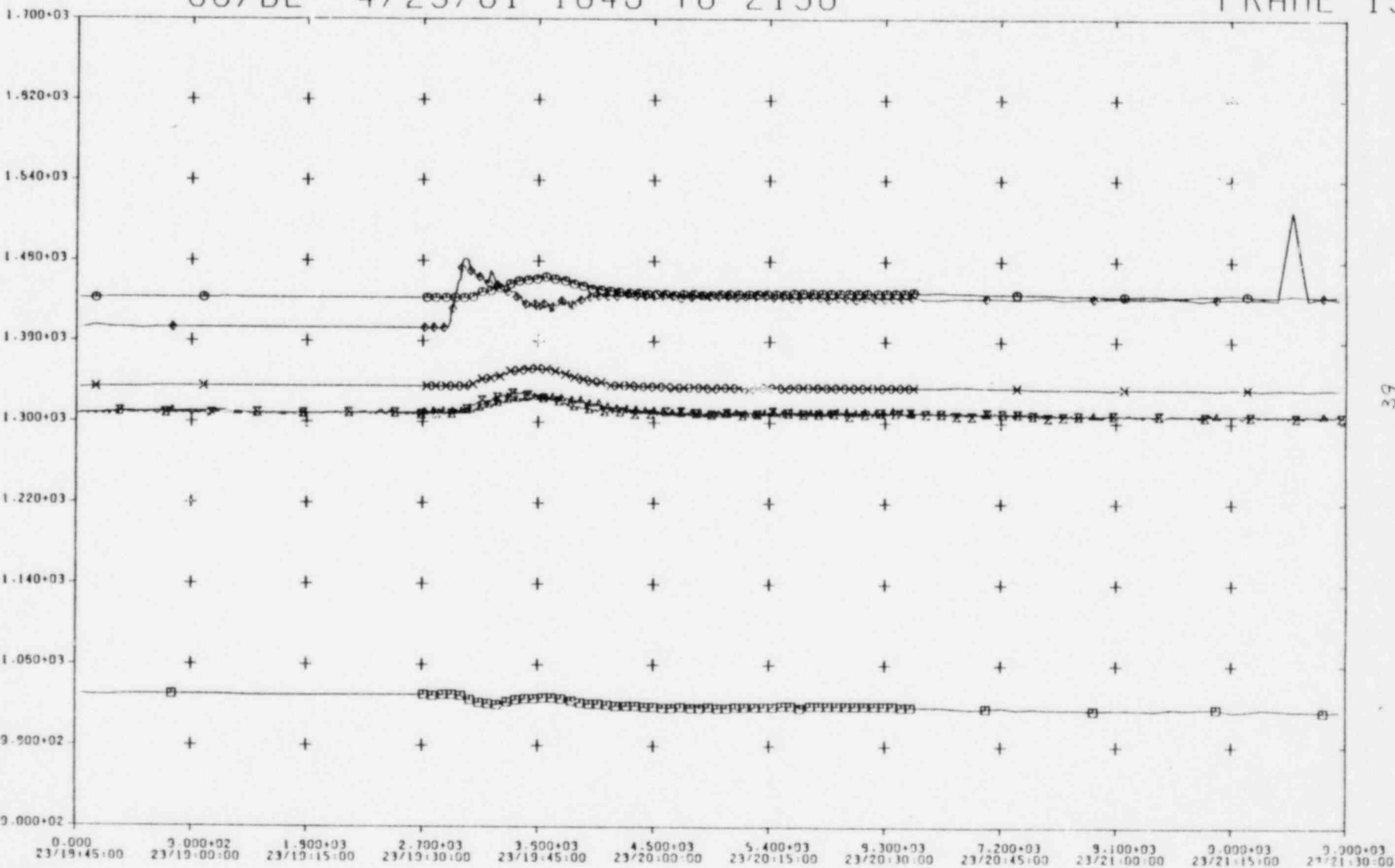


MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 13

GAS OUTLET, LINEAR PWR, AVE HE INLET NEAR B-2-5
 004 DL TEL1120-1 ROM 20 CORE OUT GAS TEMP DEG-F
 005 DL TEL1121-1 ROM 21 CORE OUT GAS TEMP DEG-F
 006 DL TEL1108-1 ROM 9 CORE OUT GAS TEMP DEG-F
 007 DL TEL1109-1 ROM 9 CORE OUT GAS TEMP DEG-F
 008 DL TEL1103-1 ROM 9 CORE OUT GAS TEMP DEG-F
 009 DL TEL1103-5 LINEAR PWR CHAN 5
 443 SO B-2-5 AVE HE INLET TEMP CALC



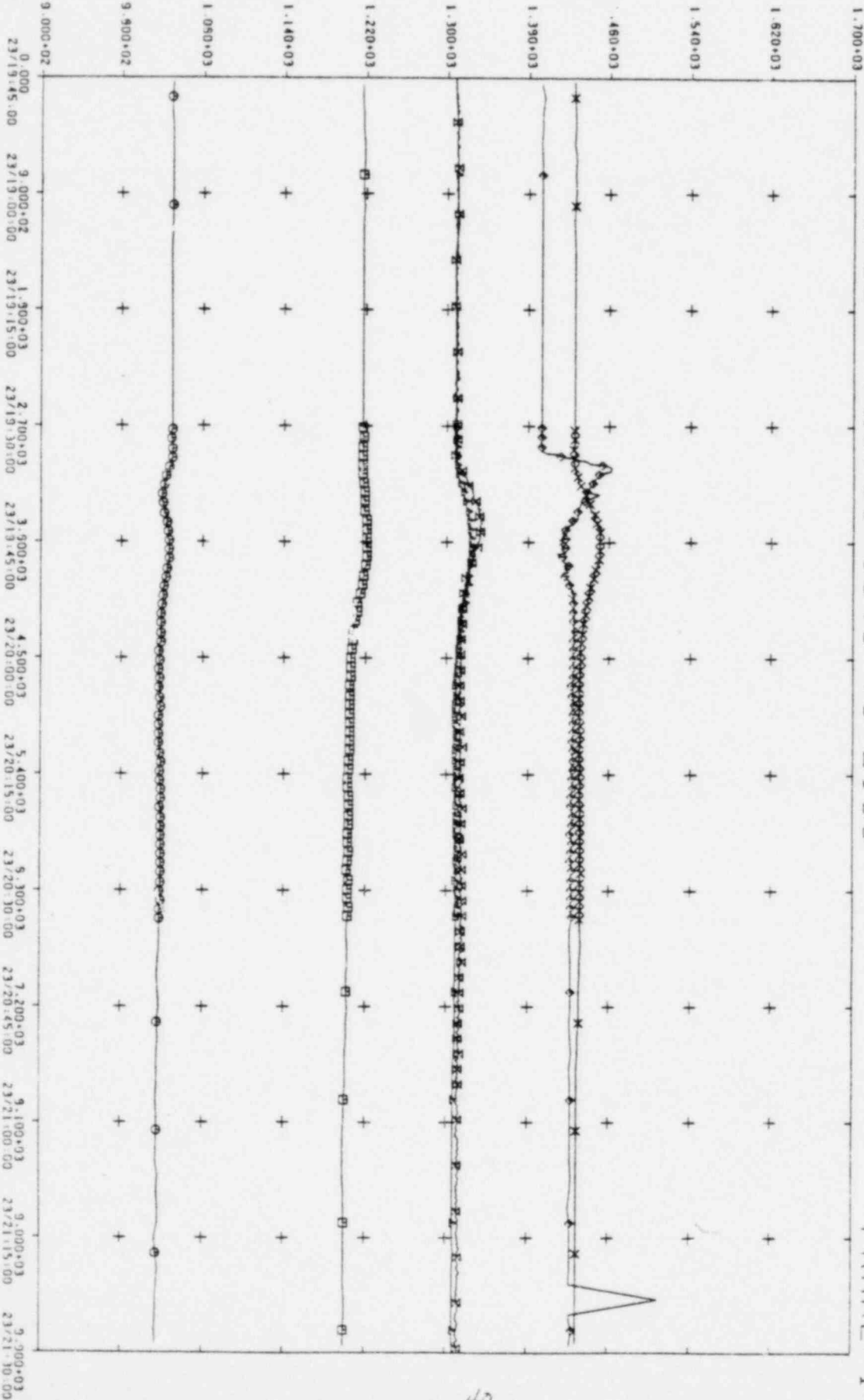
MO 04

SG/DL 4/23/81 1845 TO 2130

FRAME 14

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-2-5

111 DL TE11137-1 RGN 37 CORE OUT GAS TEMP DEG-F
 034 DL TE11120-1 RGN 20 CORE OUT GAS TEMP DEG-F
 092 DL TE11103-1 RGN 9 CORE OUT GAS TEMP DEG-F
 093 DL TE11110-1 RGN 19 CORE OUT GAS TEMP DEG-F
 005 DL NIM1135-5 LINEAR PWR CHAN 5 PERCENT + 7.000+01/ 1.000-011
 444 SG B-2-5 AVE HE INLET TEMP CALC

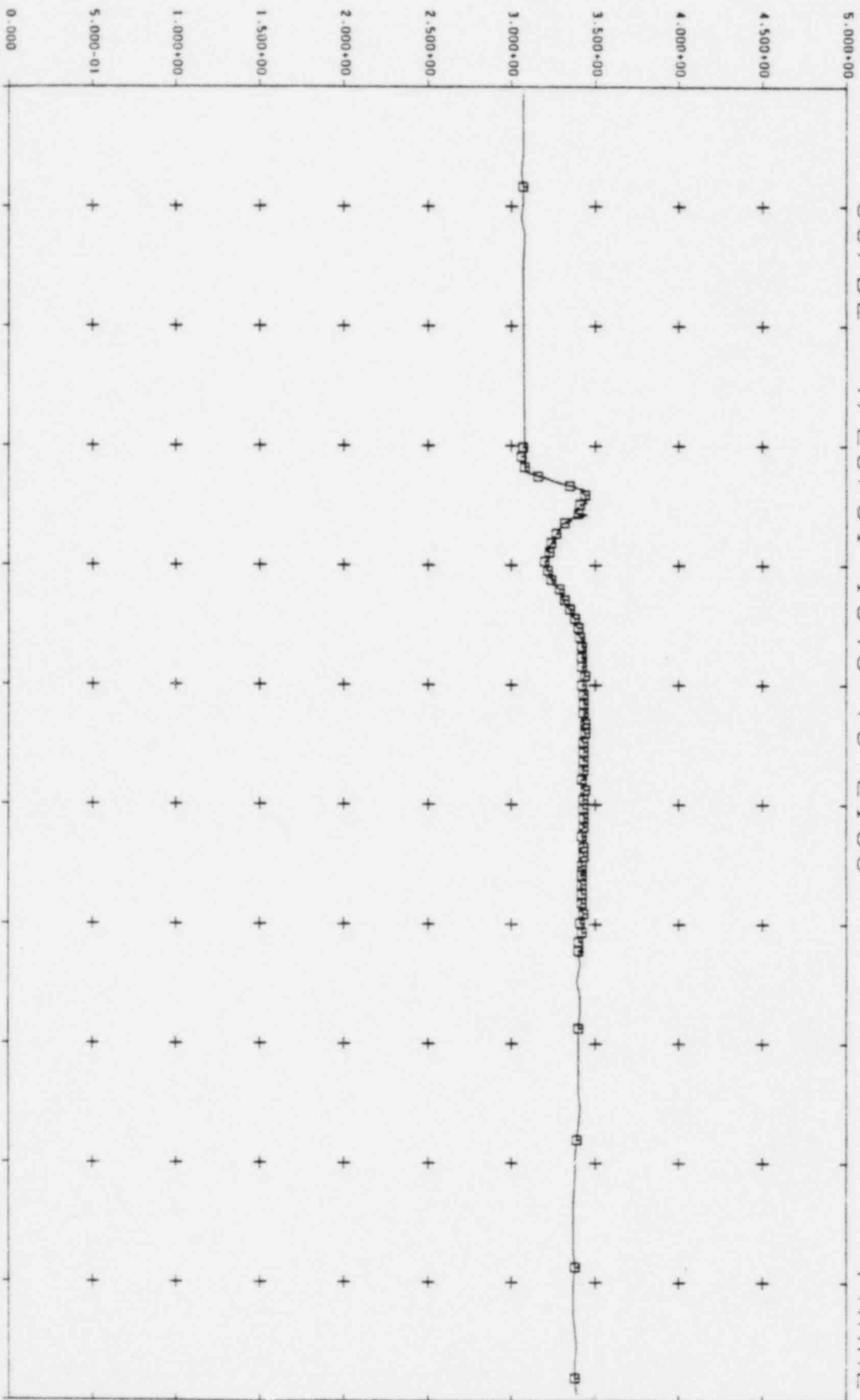


M0 04

SG/DL 4/23/81 1845 TO 2130

FRAME 16

CORE PRESSURE DROP
CORE DP
PSID



MO 04

SG/DL 4/23/81 1845 TO 2130

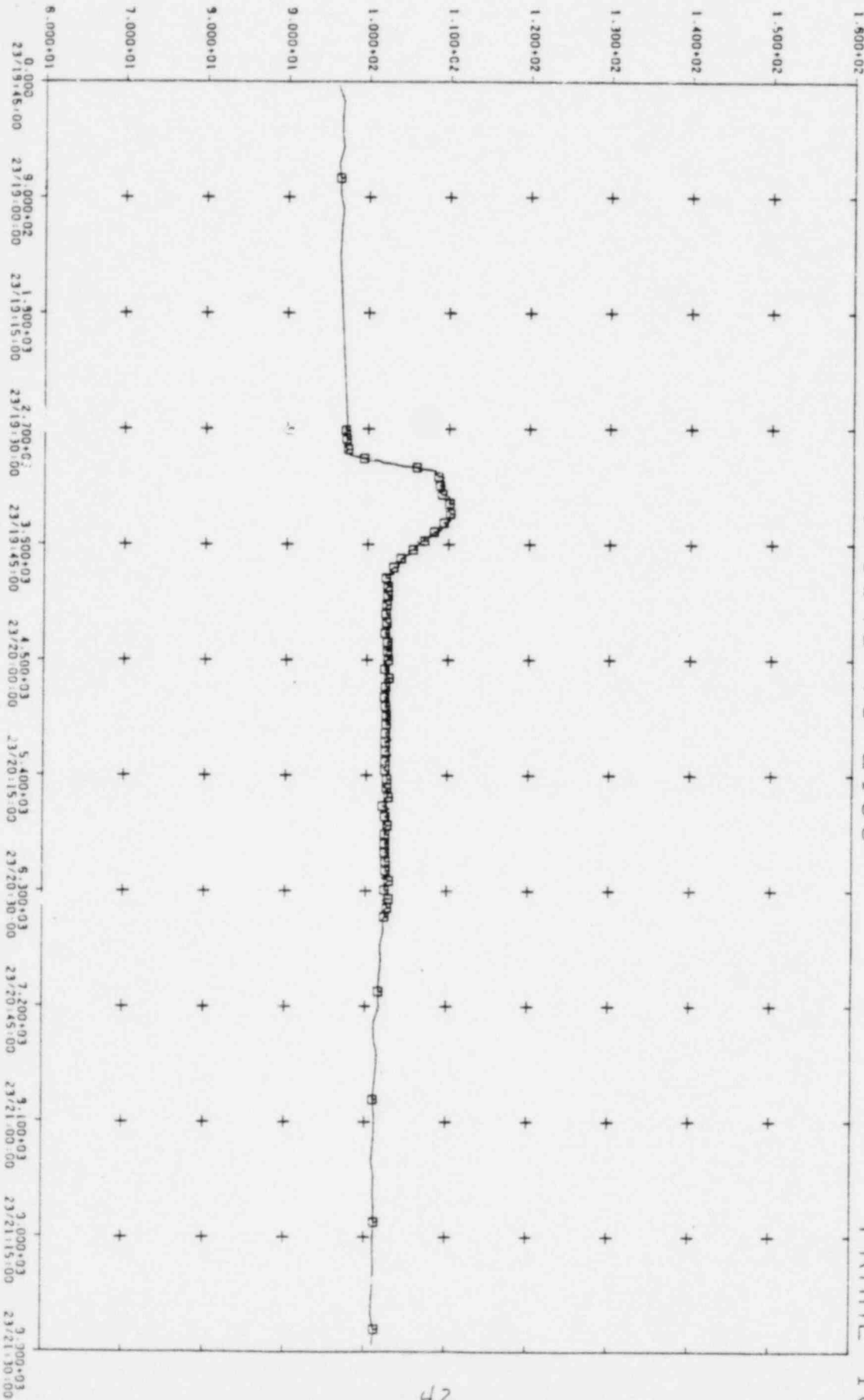
FRAME 18

REG ROD

ROM 01 CNTRL ROD POSITION INQ

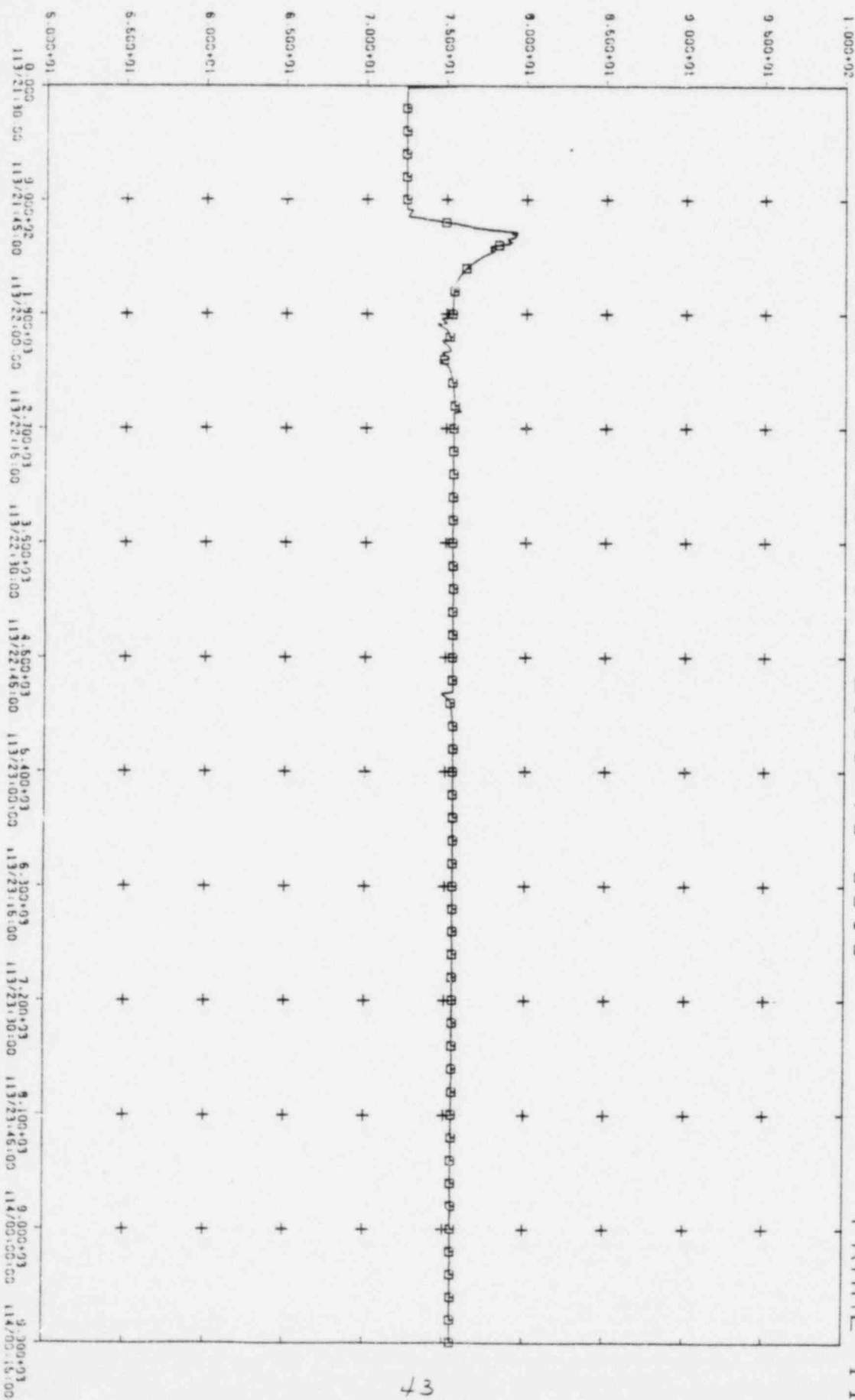
033 DL

13



CFDS - 4/23/81 - 2130 10 0015

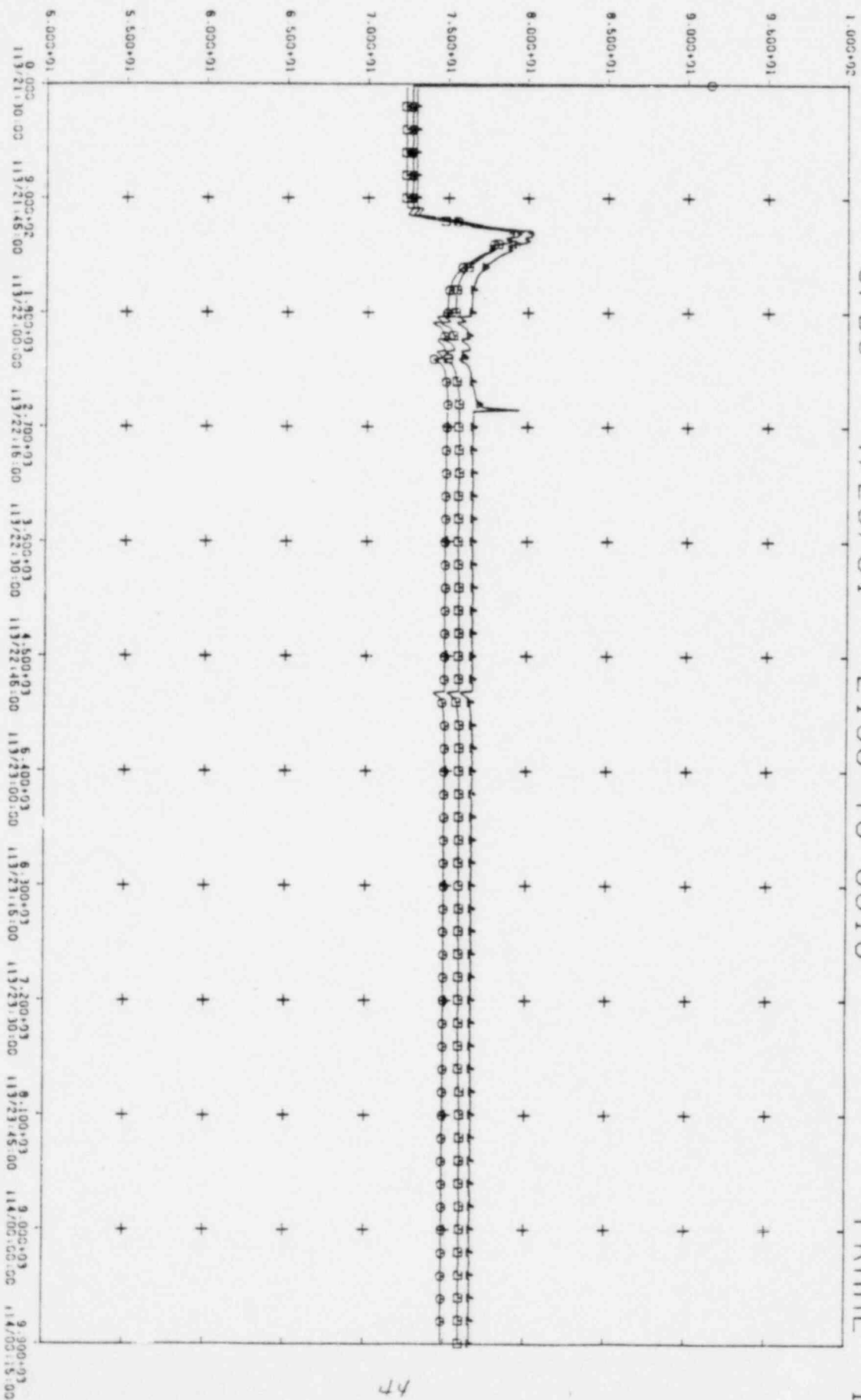
FRAME 11



CFDS - 4/23/81 - 2130 TO 0015

FRAME 1

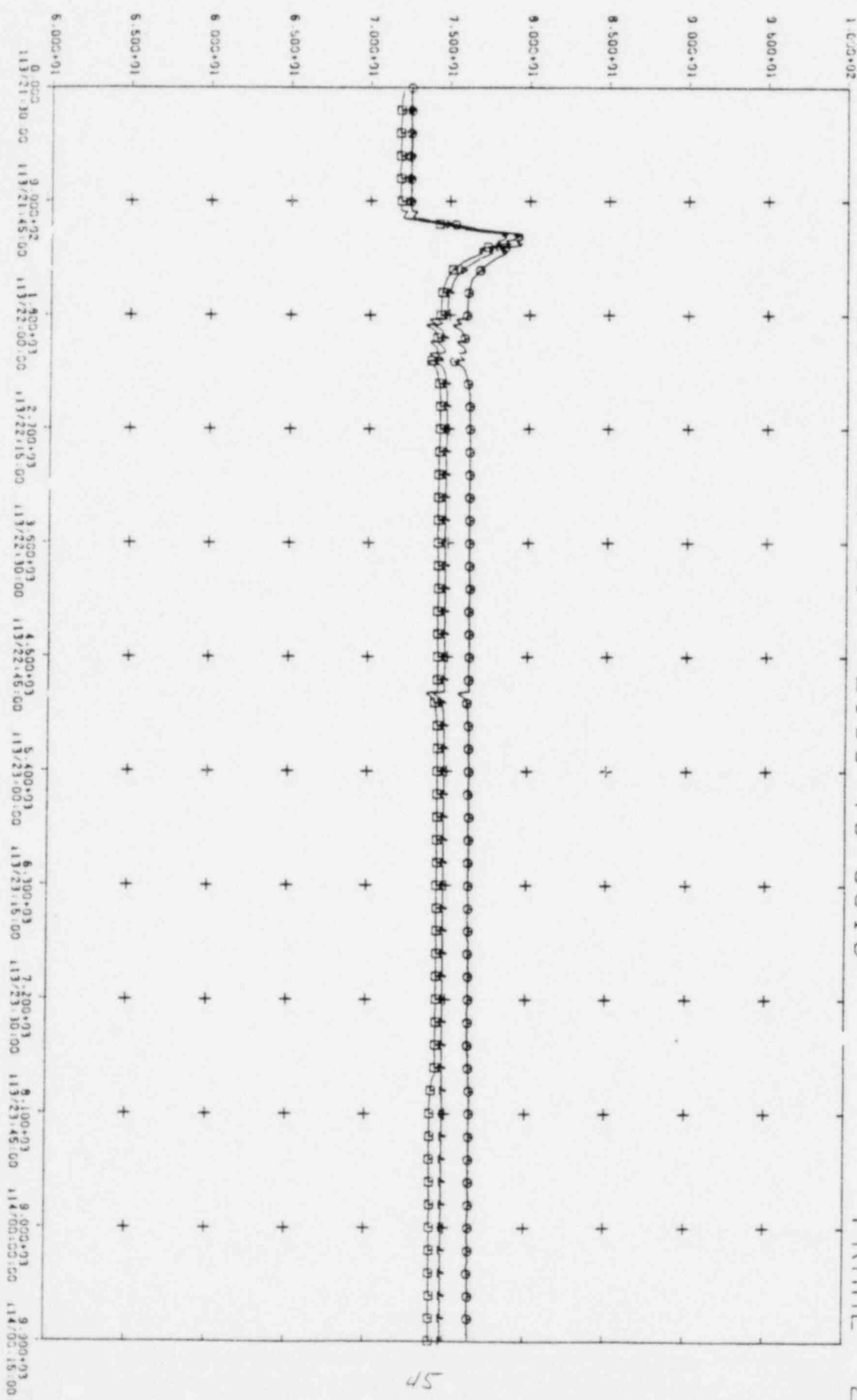
0110 FM NIM 1135 NUCLEAR FLUX (PERCENT)
 0111 FM NIM 1137 NUCLEAR FLUX (PERCENT)
 0112 FM NIM 1135 NUCLEAR FLUX (PERCENT)



CFDS - 4/23/81 - 2130 TO 0015

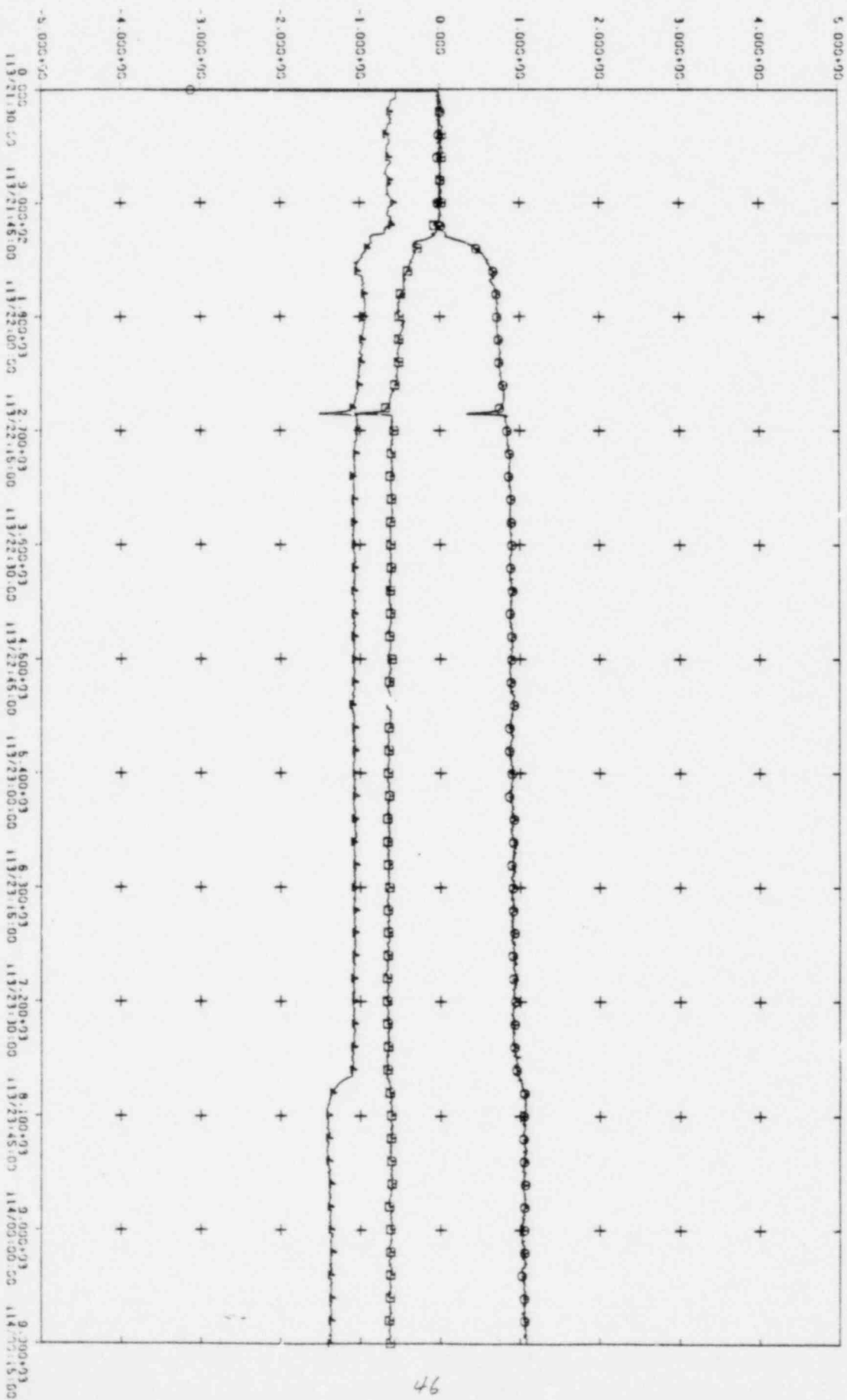
FRAME 2

0113 FM NIM 1135-3 NUCLEAR FLUX (PERCENT)
 0114 FM NIM 1134-3 NUCLEAR FLUX (PERCENT)
 0115 FM NIM 1133-3 NUCLEAR FLUX (PERCENT)



CFDS - 4/23/81 - 2130 TO 0015

FRAME 12



1507 FM CALCULATED (DEV) NIM 1133 - RVC
 1508 FM CALCULATED (DEV) NIM 1134 - RVC
 1509 FM CALCULATED (DEV) NIM 1135 - RVC

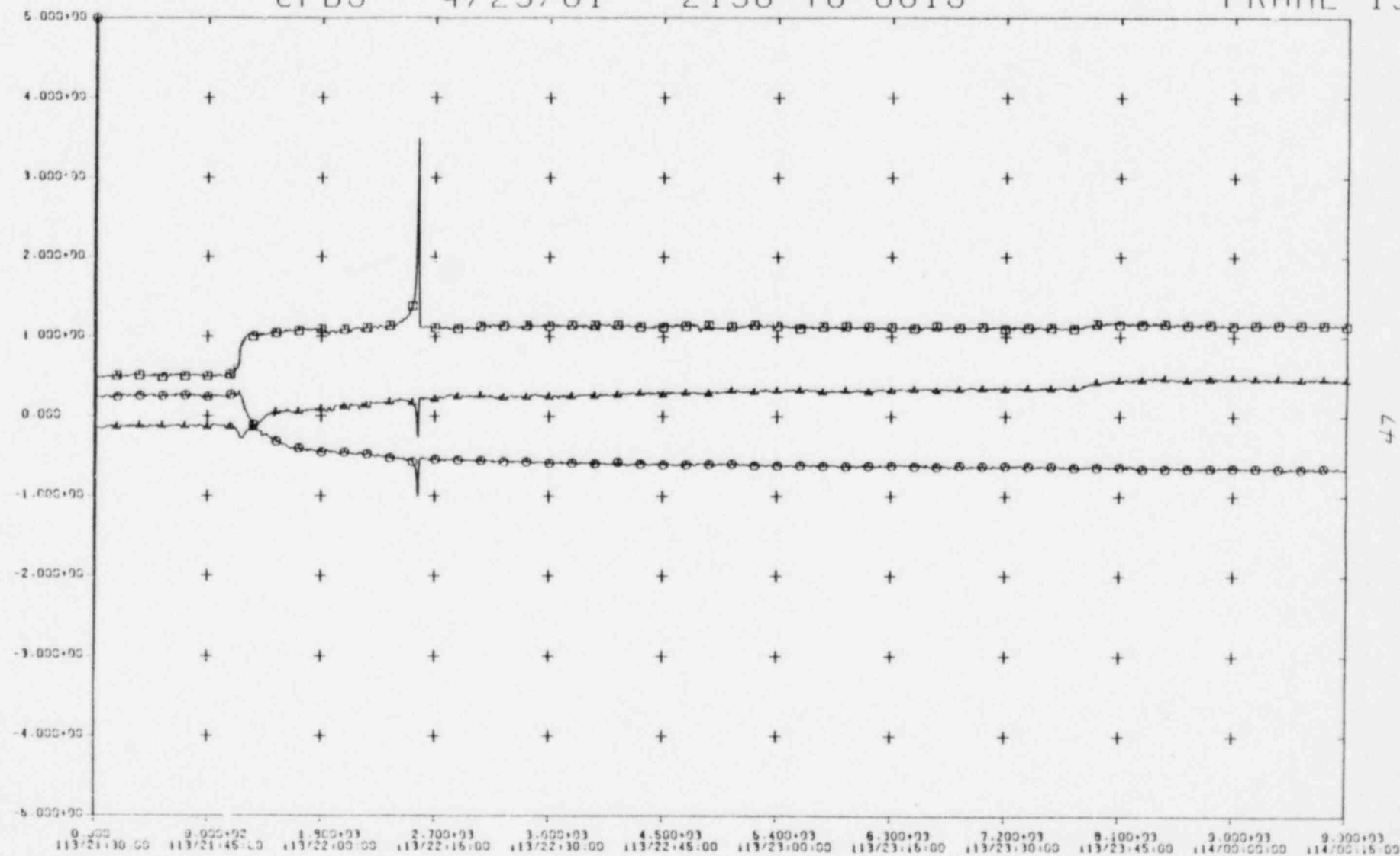
E O N

CFDS - 4/23/81 - 2130 TO 0015

FRAME 13

1504 FM CALCULATED (DEV) NIM 1135 - AVE
1503 FM CALCULATED (DEV) NIM 1137 - AVE
1502 FM CALCULATED (DEV) NIM 1139 - AVE

EO 4



CFDS - 4/23/81 - 2130 10 0015

FRAME 1

STRING L 1

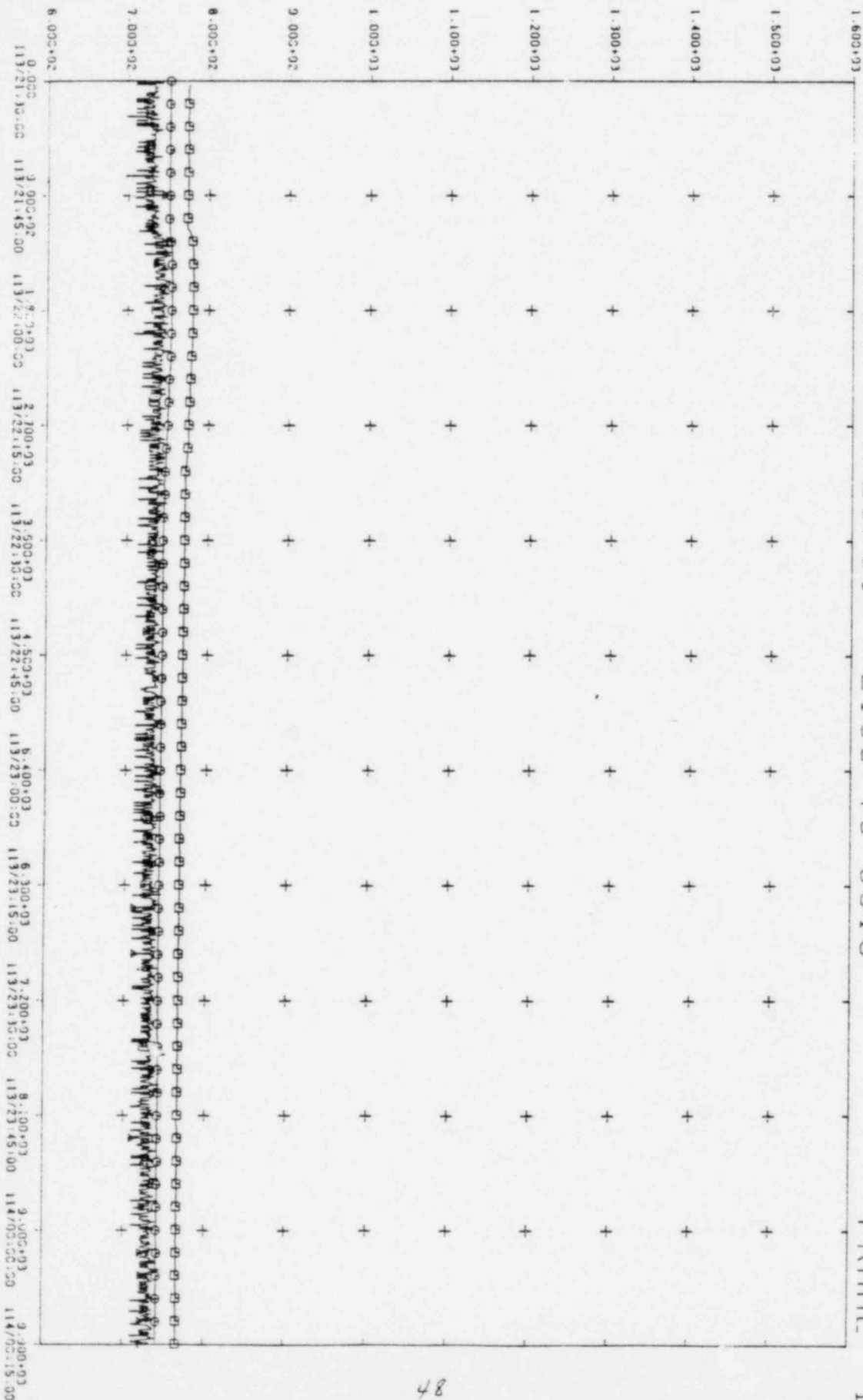
TRAVERSING TC
TRAVERSING TC
TRAVERSING TC

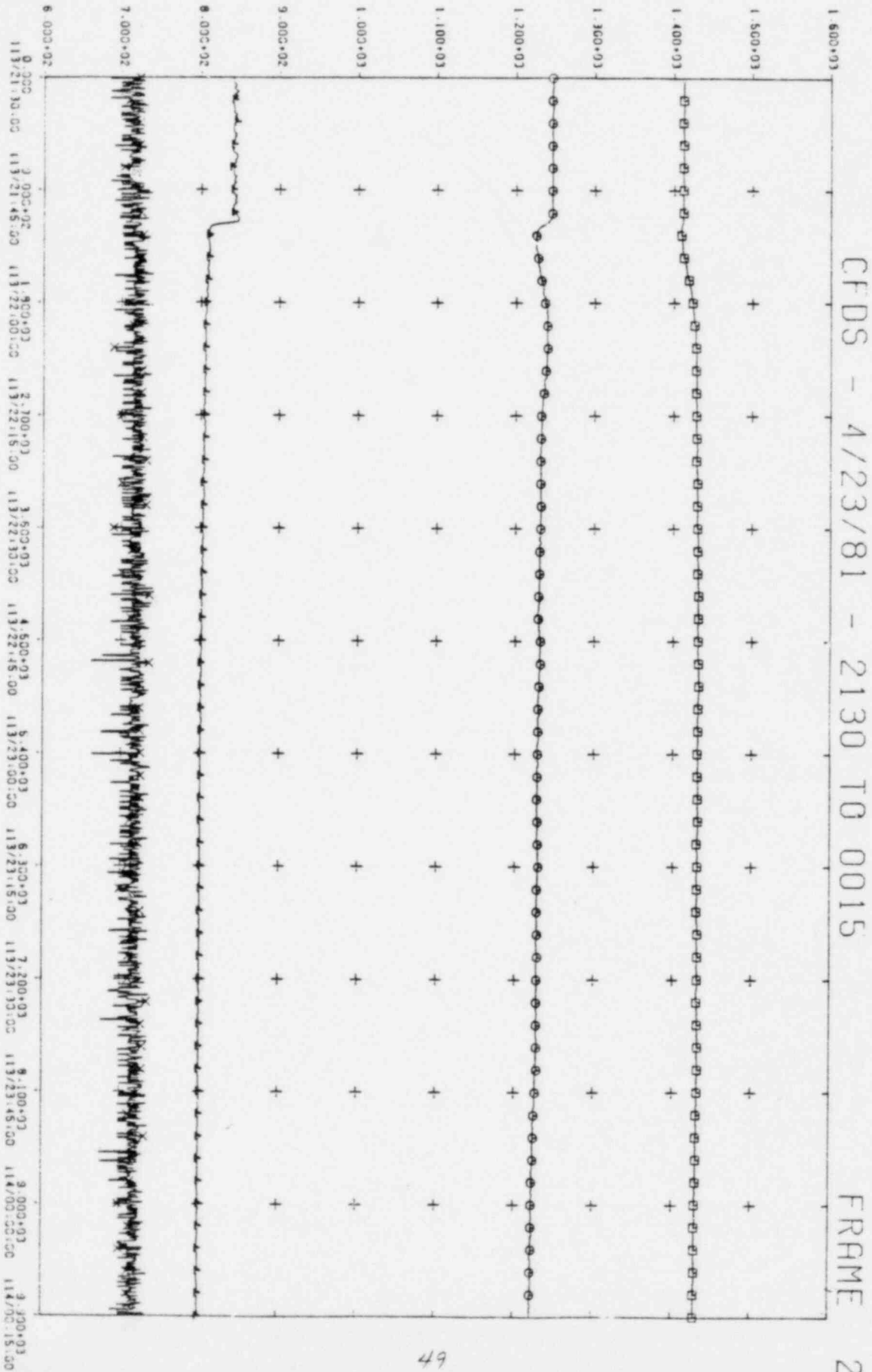
(DEC F)
(DEC F)
(DEC F)

(+ 3.000+01/ 1.000+00)
(+ 1.000+00/ 1.000+00)
(+ 3.000+01/ 1.000+00)

10 4

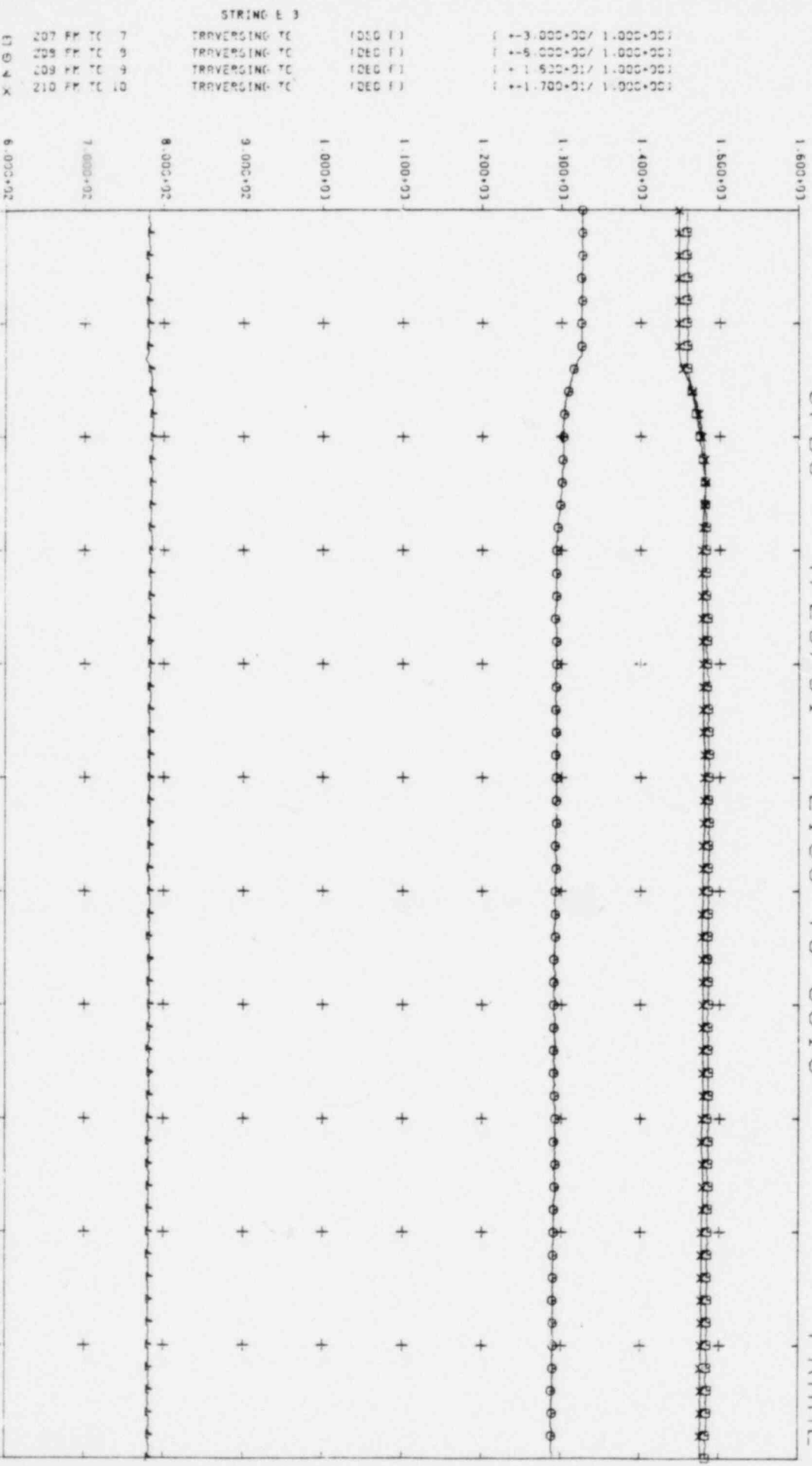
201 FM TC 1
225 FM TC 25
202 FM TC 2



$$\begin{aligned} & \frac{1}{1} = \frac{1.000+00}{1.000+00} \\ & \frac{1}{2} = \frac{1.000+01}{1.000+00} \\ & \frac{1}{3} = \frac{1.000+02}{1.000+00} \end{aligned}$$


CFDS - 4/23/81 - 2130 TO 0015

FRAME 3



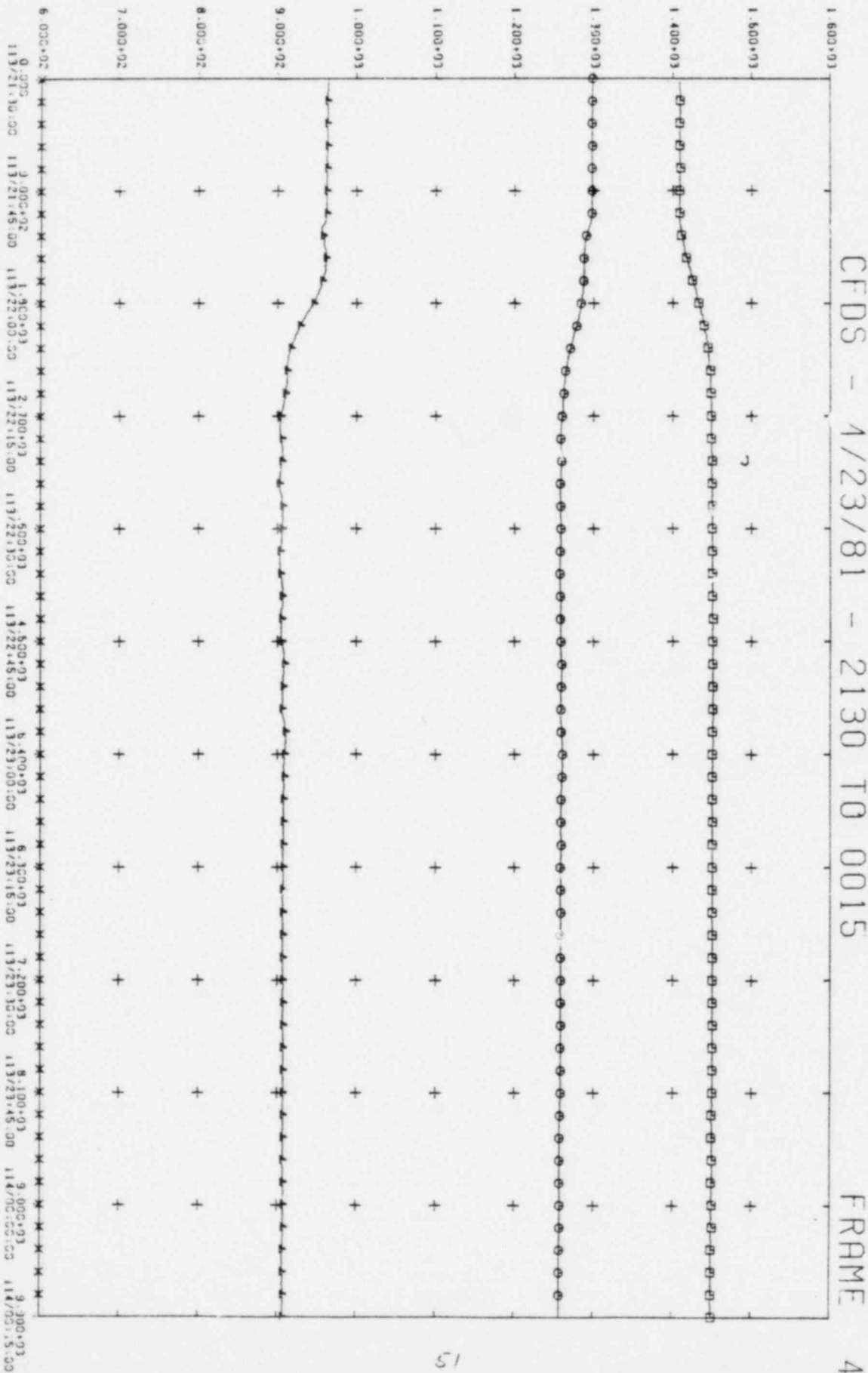
0214 FM TC 14

211 FM TC 11
212 FM TC 12
213 FM TC 13

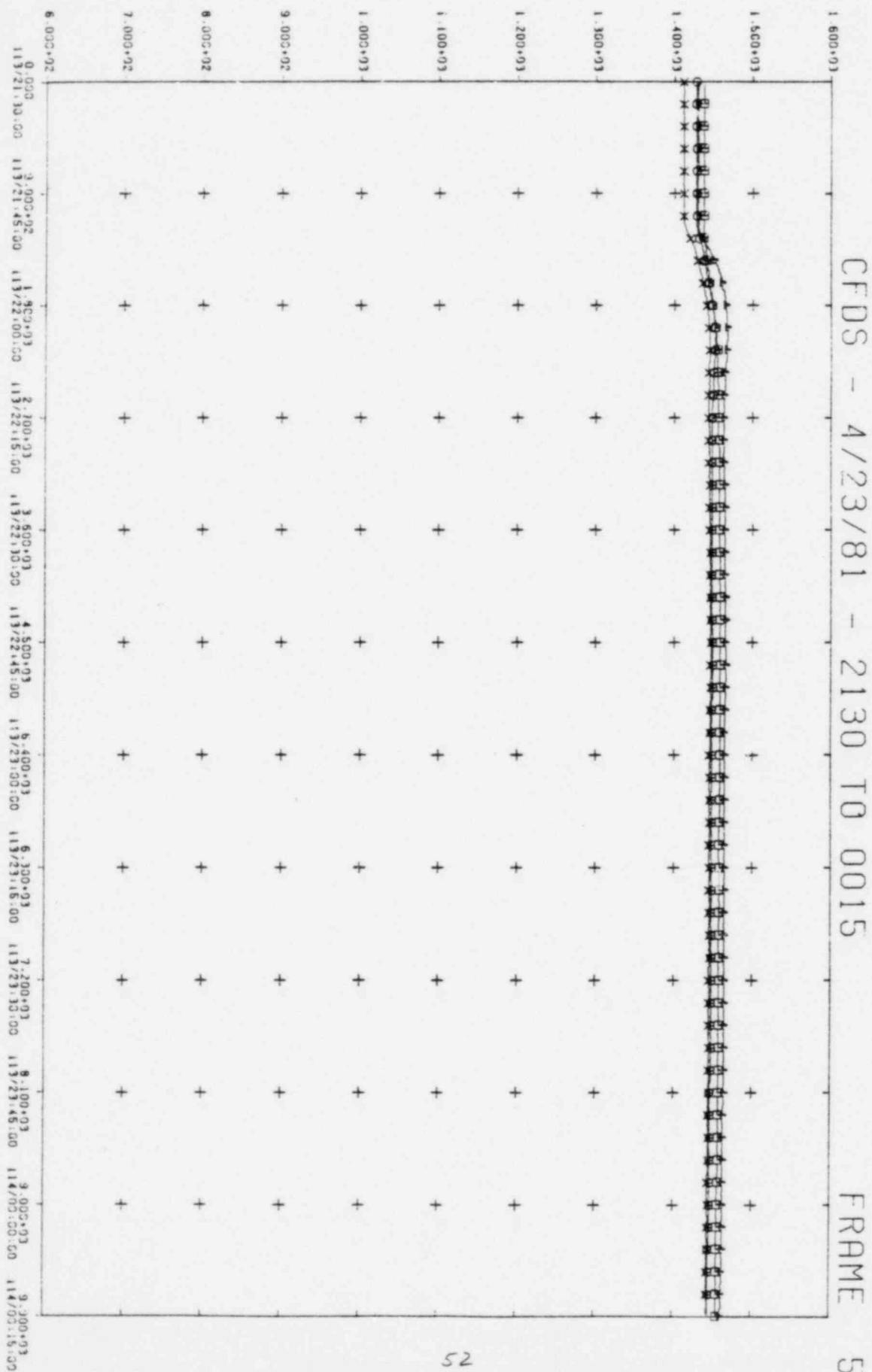
STRING E 4
TRVERSING TC
TRVERSING TC
TRVERSING TC
TRVERSING TC

(DEC F)
(DEC F)
(DEC F)
(DEC F)

1 + 2.000+20/ 1.000+00
1 + -1.500+01/ 1.000+00
1 + 7.000+20/ 1.000+00

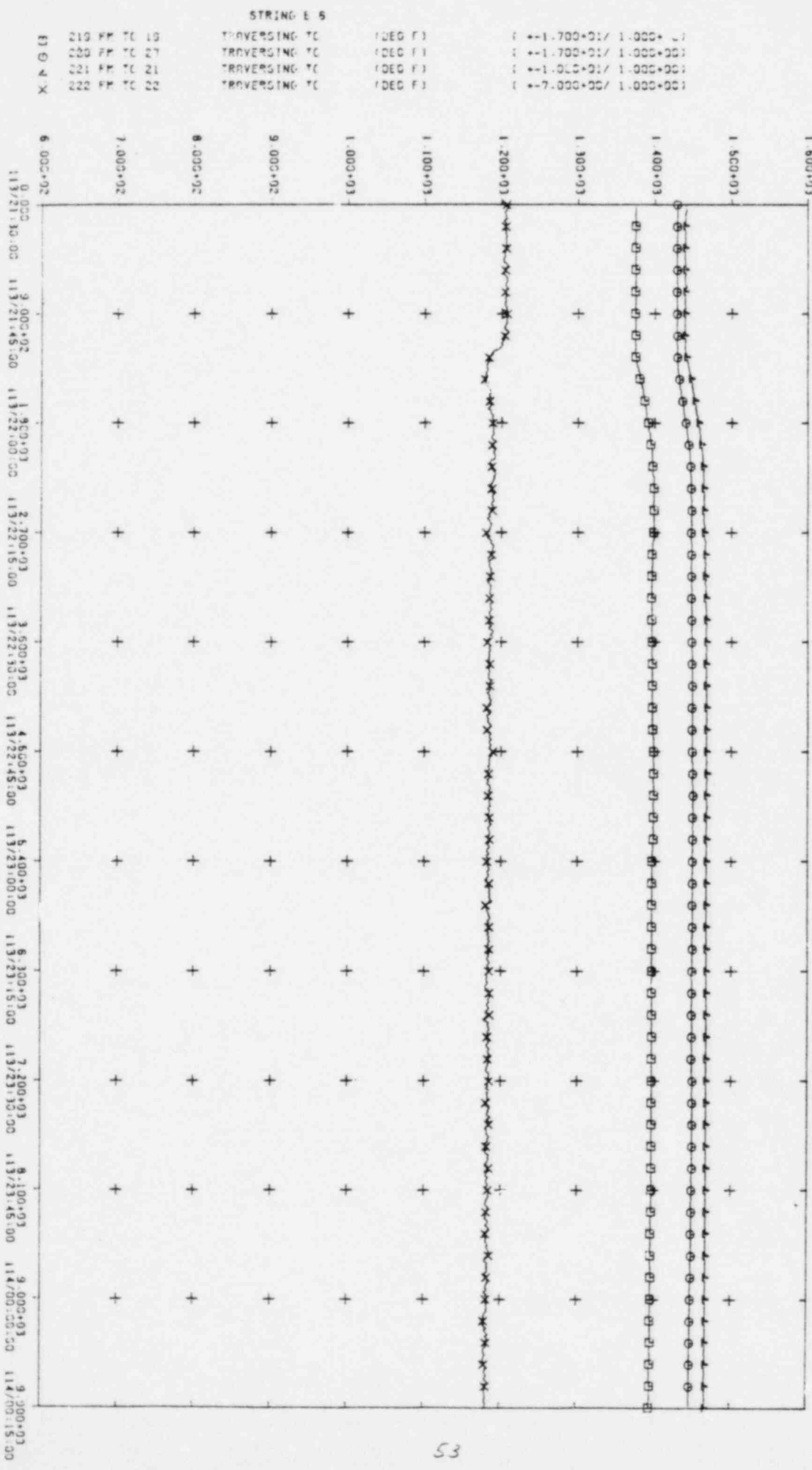


	STRING E 5		
215 FM TC 15	TRVERSING TC	(DEG F)	(+-1.300+01/ 1.000+00)
215 FM TC 15	TRVERSING TC	(DEG F)	(+-1.300+01/ 1.000+00)
217 FM TC 17	TRVERSING TC	(DEG F)	(+-1.700+01/ 1.000+00)
219 FM TC 19	TRVERSING TC	(DEG F)	(+-1.500+01/ 1.000+00)



CFDS - 4/23/81 - 2130 10 0015

FRAME 6



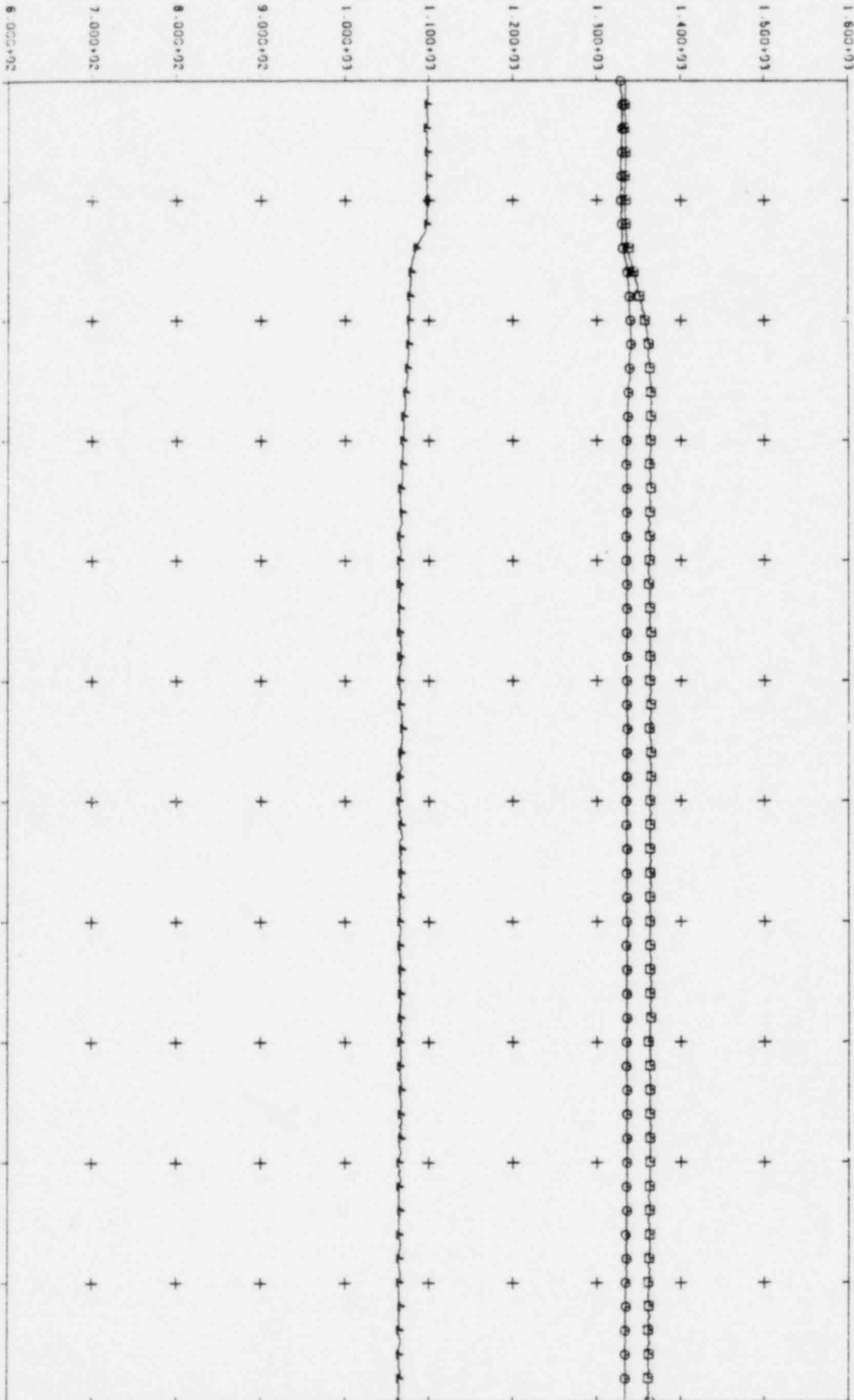
STRING E 7

223 FM TC 23
224 FM TC 24
225 FM TC 25

TRAVERSING TC
TRAVERSING TC
TRAVERSING TC

(DEC F)
(DEC F)
(DEC F)

(+-1.500+01/ 1.000+00)
(+-1.400+01/ 1.000+00)
(+-5.000+00/ 1.000+00)



CFDS - 4/23/81 - 2130 TO 0015

FRAME 7

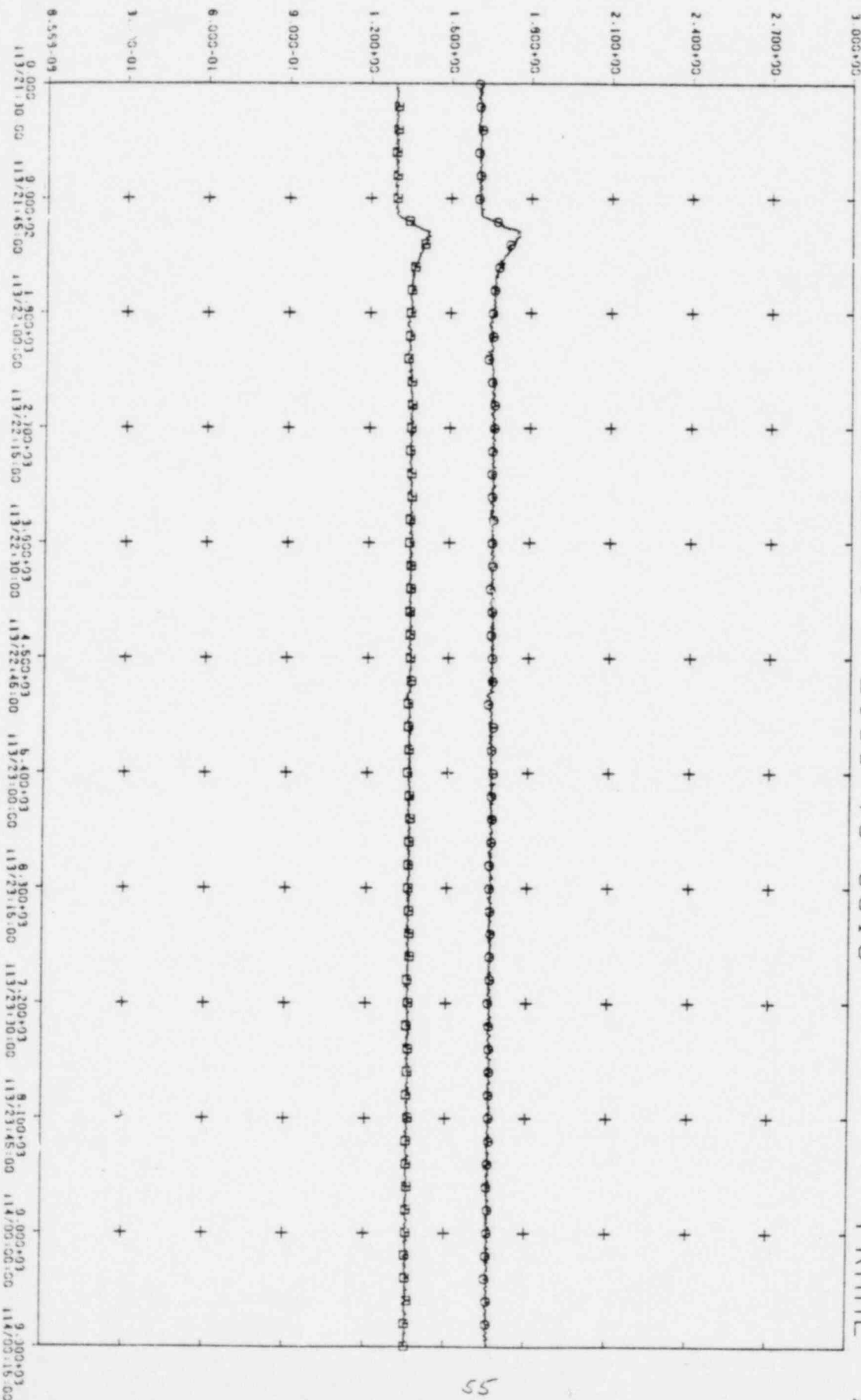
CFDS - 4/23/81 - 2130 TO 0015

FRAME

7

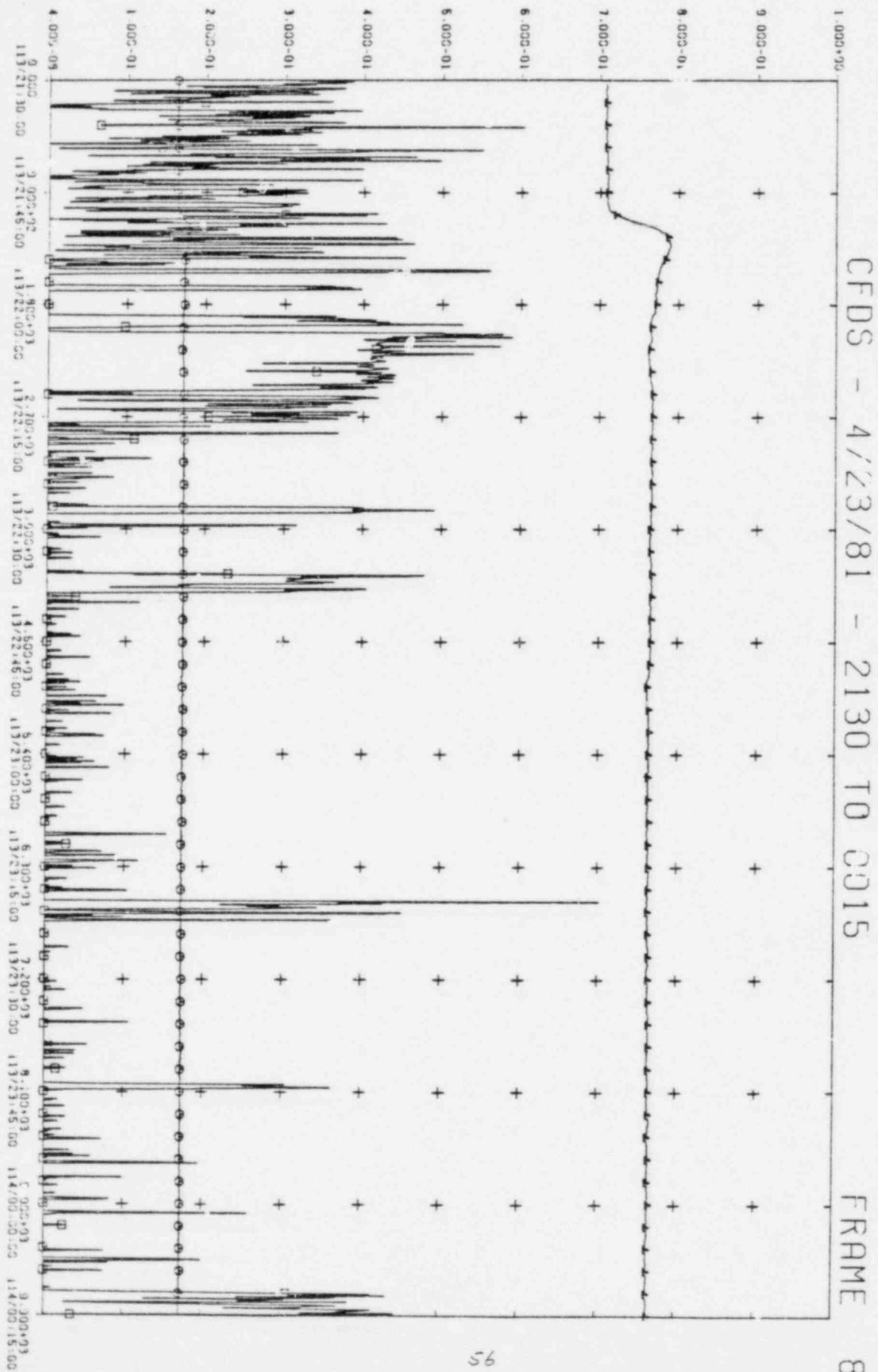
5

0311 FM FC-1 HE PERM TUBE NUCLEAR FLUX (NANOAMP)
0310 FM FC-2 HE PERM TUBE NUCLEAR FLUX (NANOAMP)



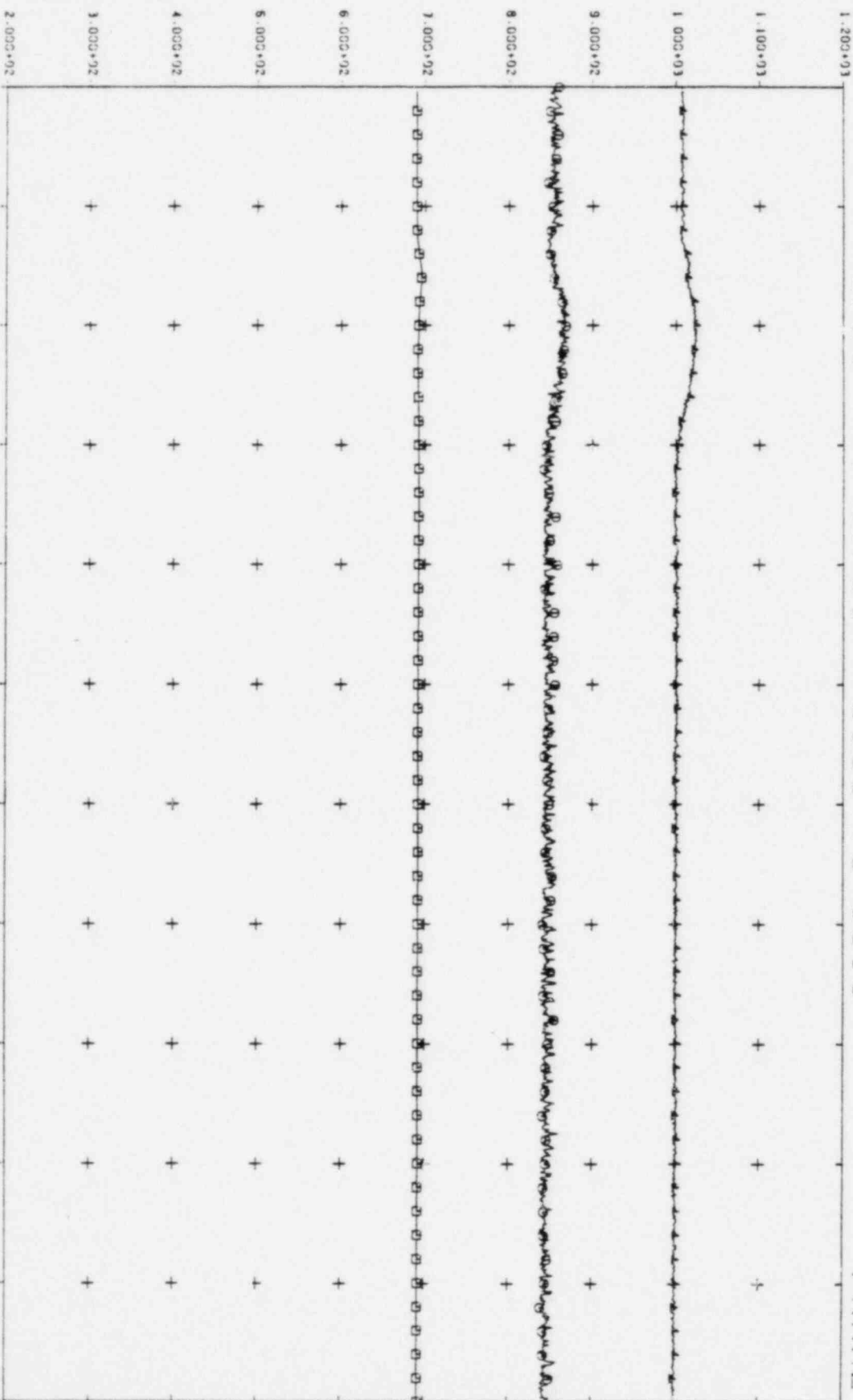
0714 FF CPL 20
0713 FF FC 20
711 FF NS 20

FISSION COUPLE S/N 20 (MILLIVOLT)
FISSION CHAMBER S/N 20 (MILLIAMPS)
SPNC S/N 20 (MICROAMPS) (+ 0.000 / 3.000-00)



CFDS - 4/23/81 - 2130 TO 0015

FRAME 9

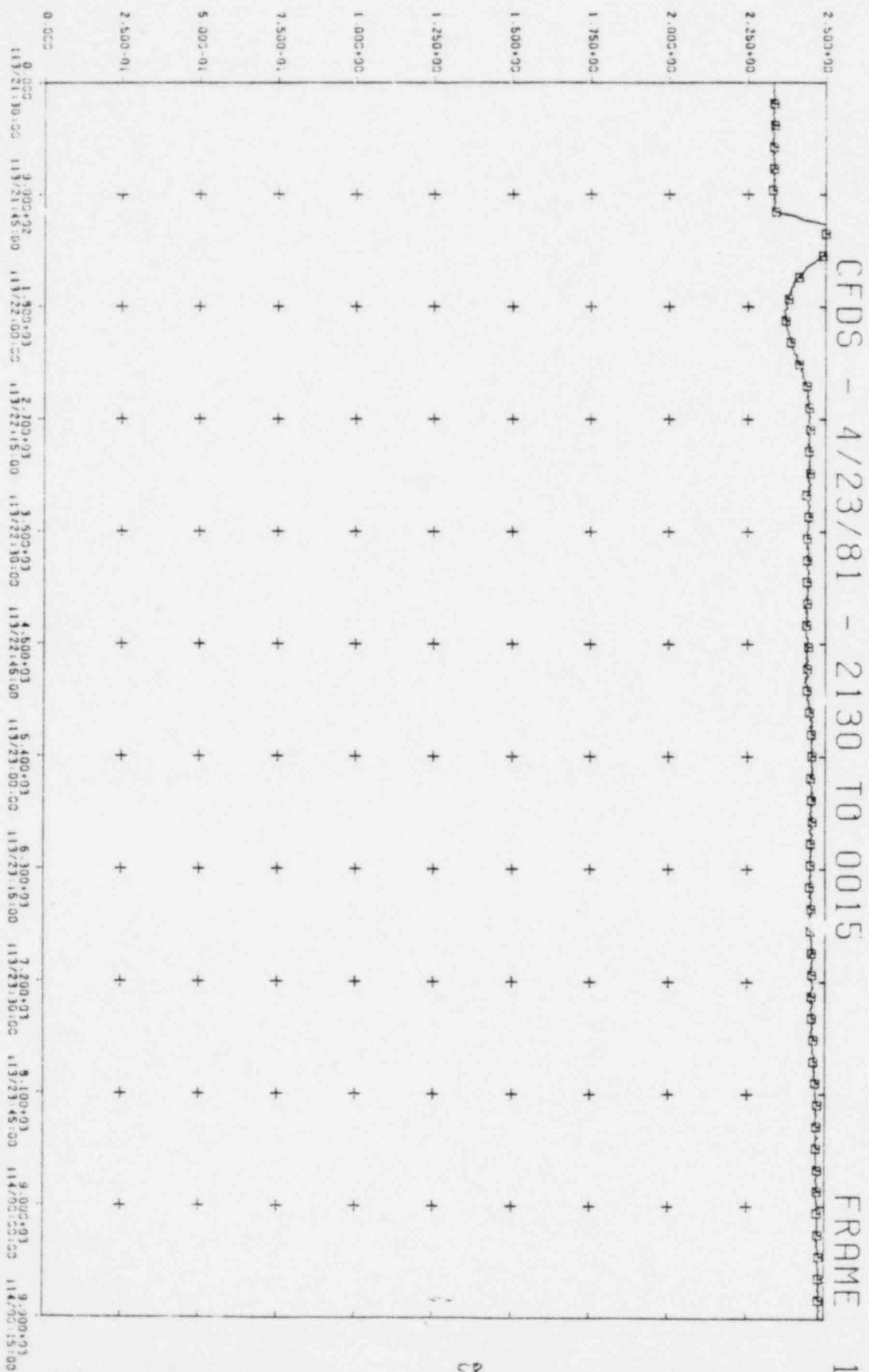


0710 FM TCT 20 TOP TC S/N 20 DEC F1
 0700 FM TCM 20 MIDDLE TC S/N 20 DEC F1
 0709 FM TCB 20 BOTTOM TC S/N 20 DEC F1

E

0912 PM F 43

ORIFICE PRESSURE DROP S/N 43 (PSID)



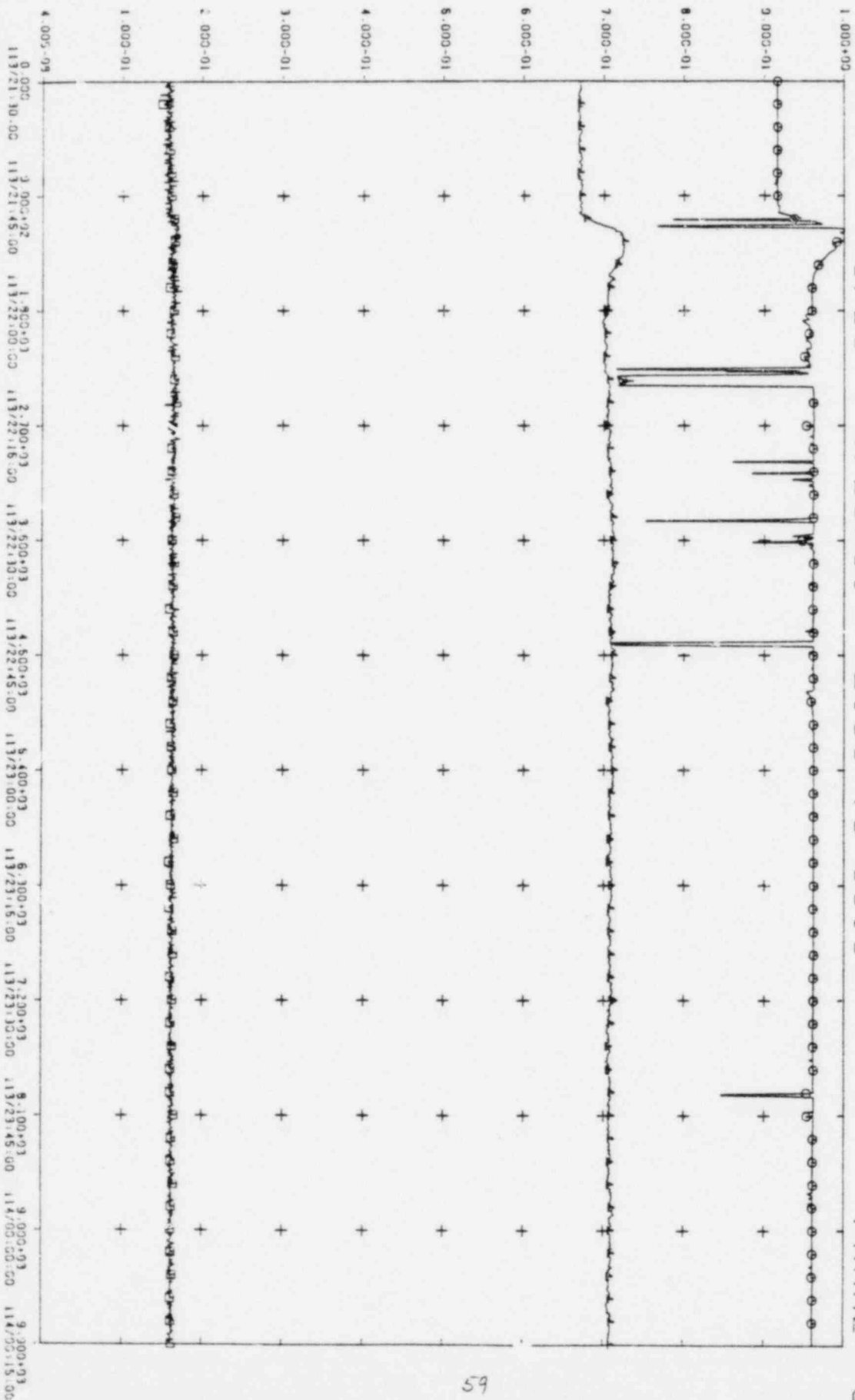
09:4 FM CPL 43
 9:3 FM FC 43
 9:11 FM NC 43

FISSION COUPLE S/N 43 (MILLIVOLT)
 FISSION CHAMBER S/N 43 (MILLIAMPS)
 SPND S/N 43 (MICROAMPS)

(+ 0.000 / 1.000-01)
 (+ 0.000 / 2.000-00)

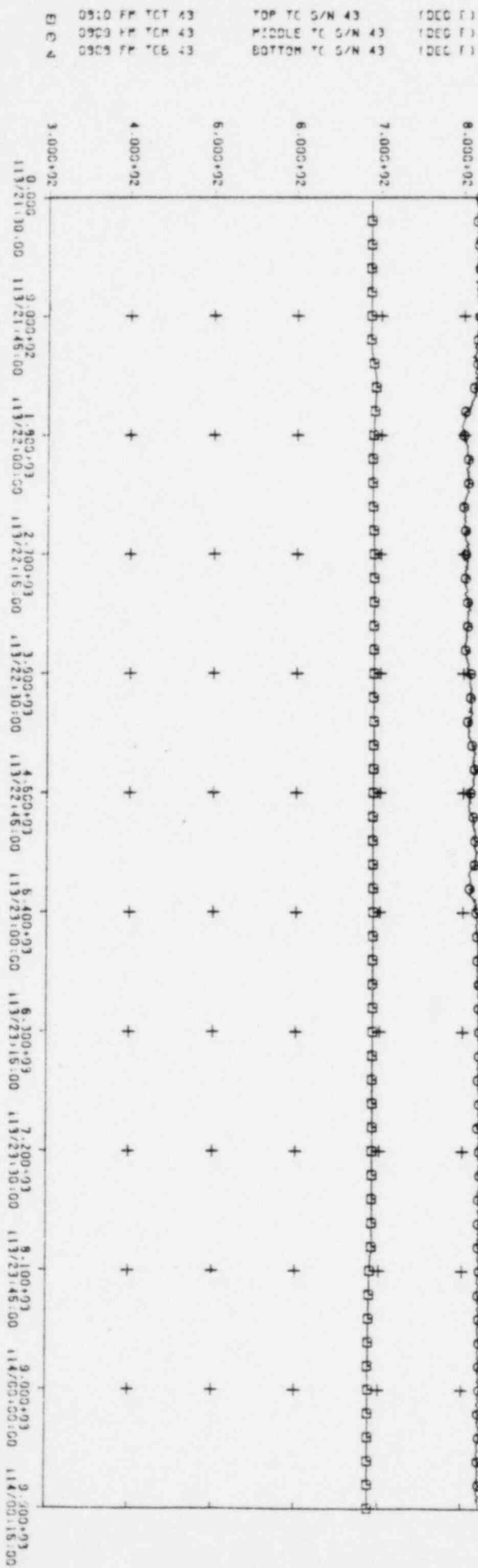
CFDS - 4/23/81 - 2130 10 0015

FRAME 8



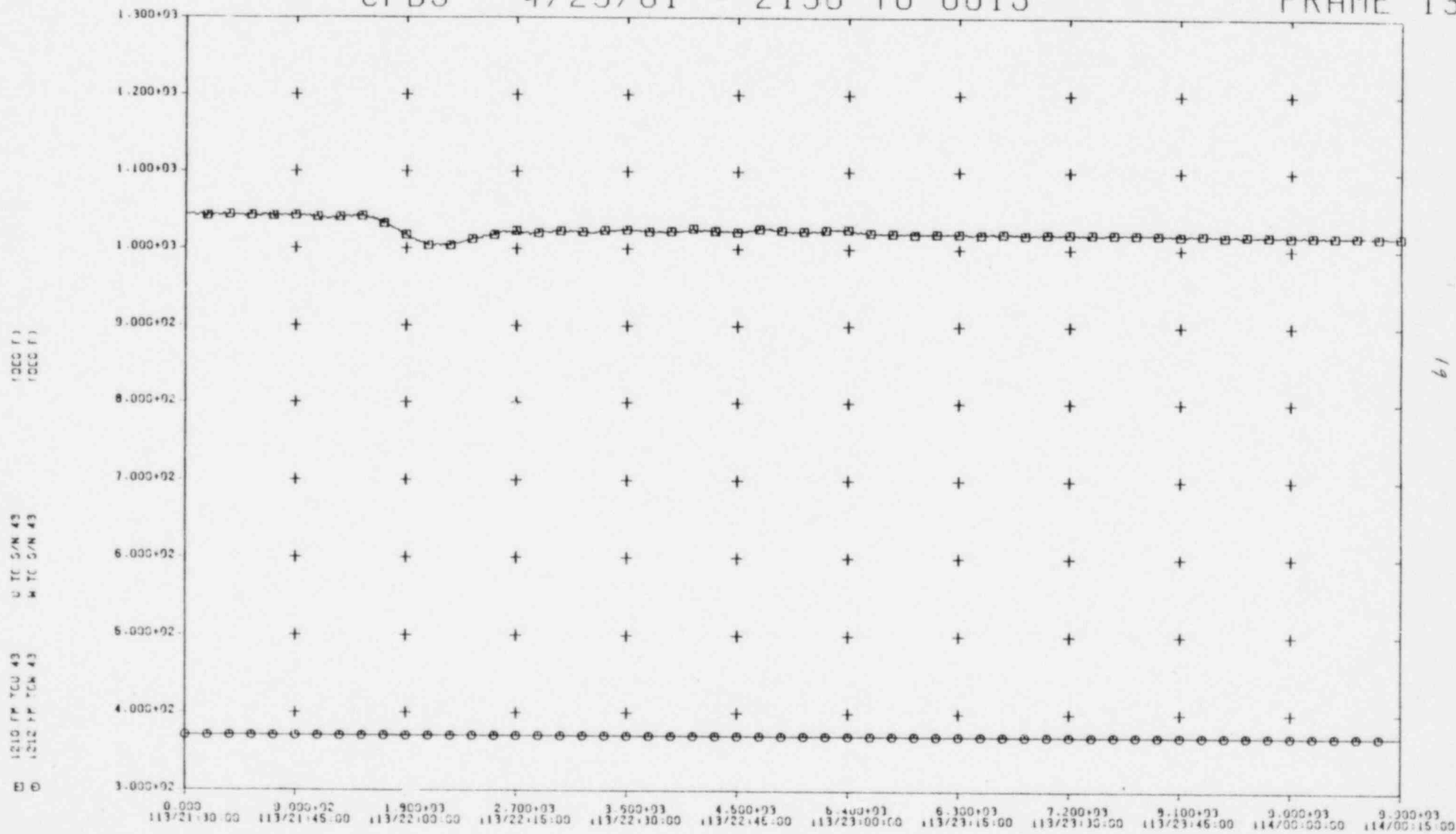
CFDS - 4/23/81 - 2130 TO 0015

FRAME 10



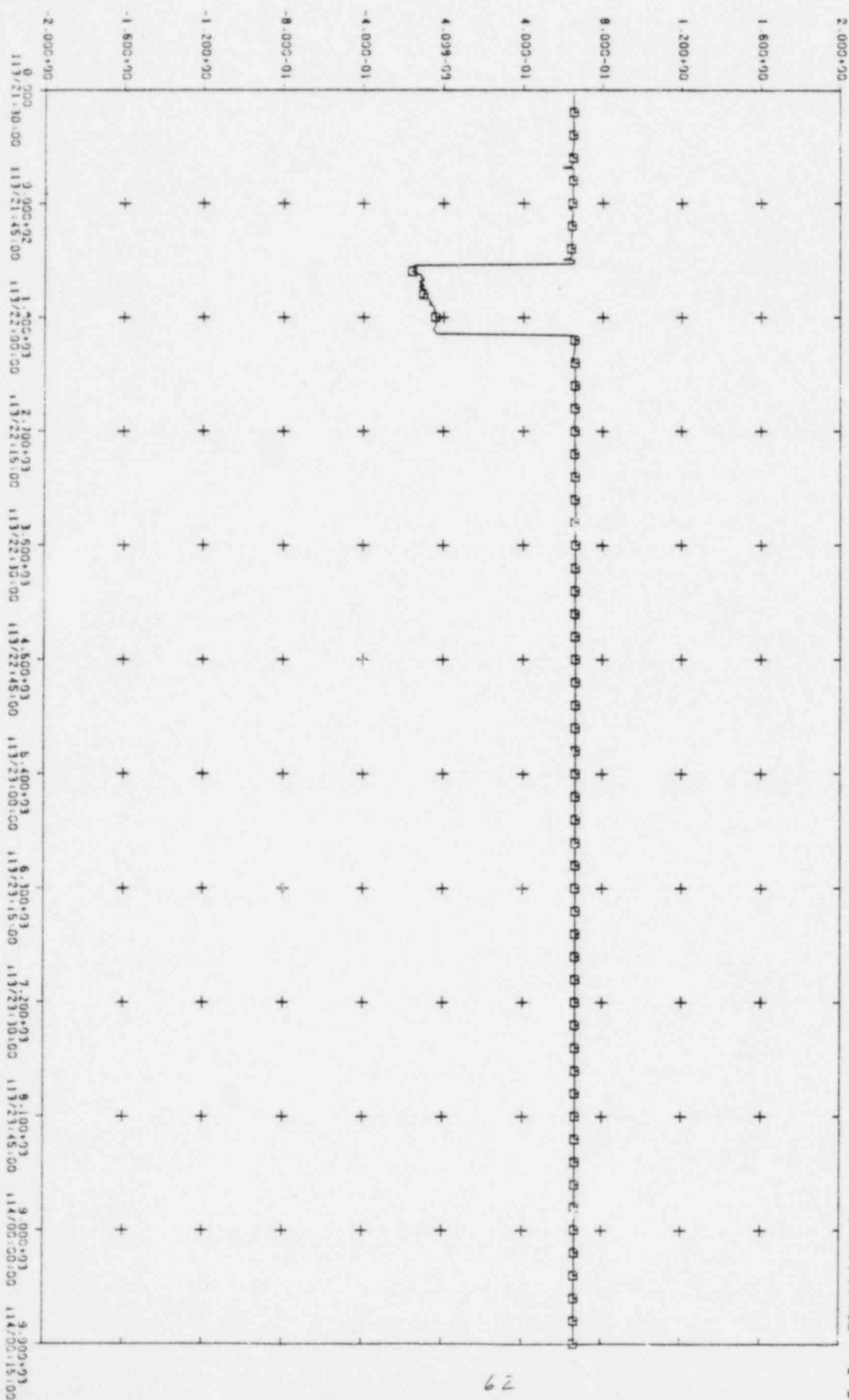
CFDS - 4/23/81 - 2130 TO 0015

FRAME 13



CFDS - 4/23/81 - 2130 TO 0015

FRAME 11



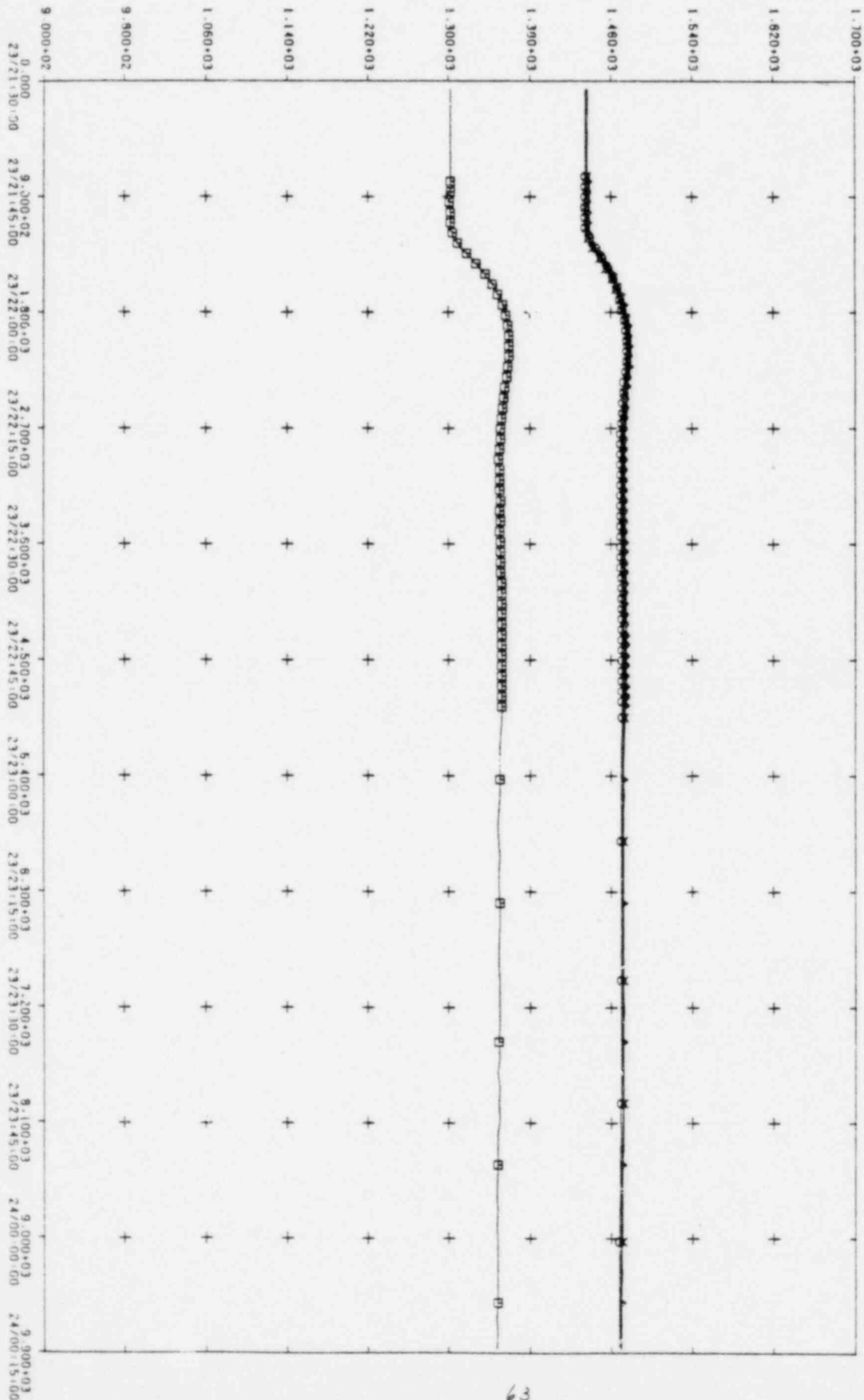
MO 04

SG/DL 4/23/81 2130 10 0015

FRAME 1

REGIONS 1-4 EX1 GAS TEMPERATURES

075 DL TE1110-1 RGN 1 CORE OUT GAS TEMP DEG-F
 076 DL TE11102-1 RGN 2 CORE OUT GAS TEMP DEG-F
 077 DL TE11103-1 RGN 3 CORE OUT GAS TEMP DEG-F
 079 DL TE11104-1 RGN 4 CORE OUT GAS TEMP DEG-F

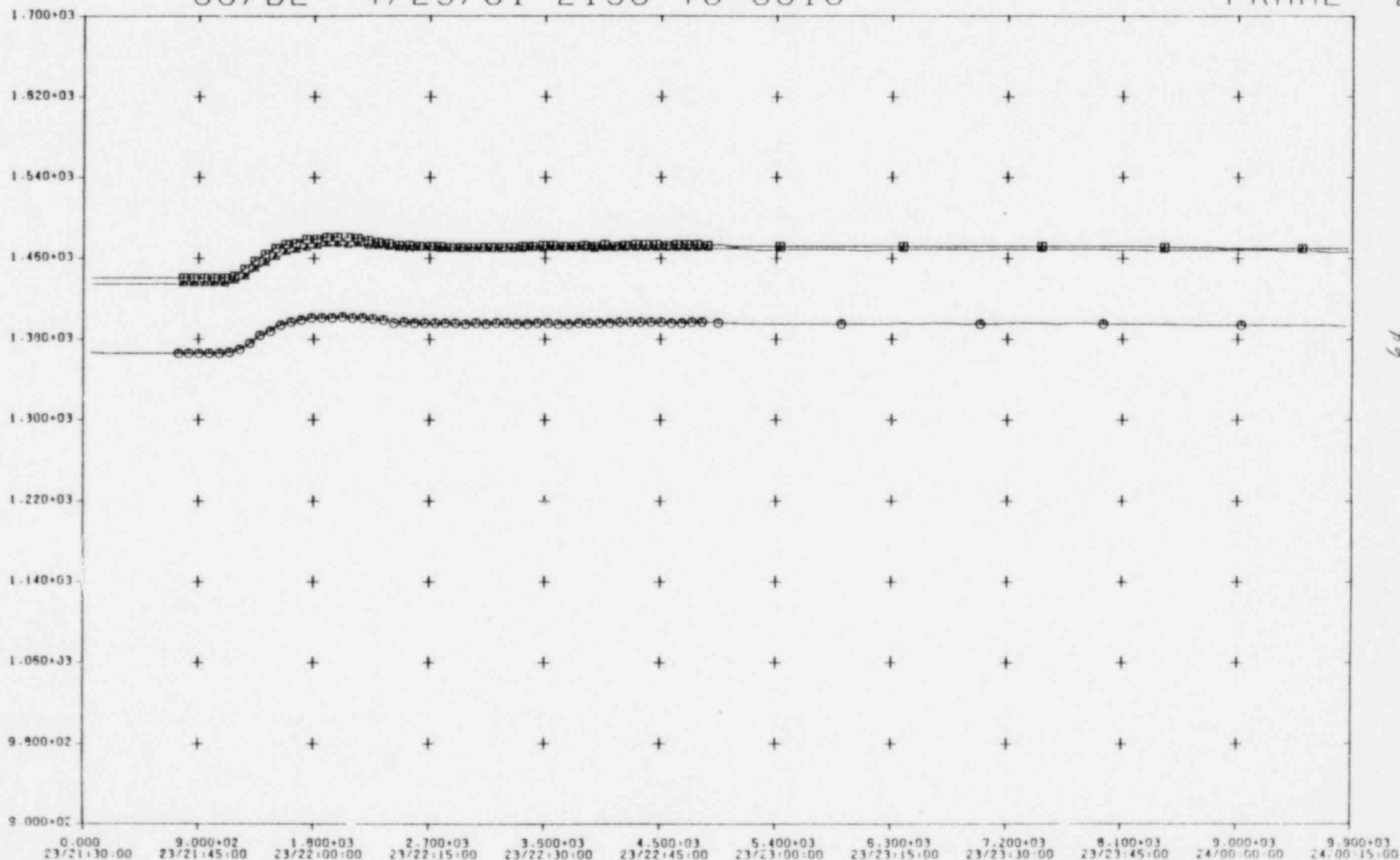


MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 2

REGIONS 5-7 EXIT GAS TEMPERATURES
 079 DL TEL1105-1 ROW 5 CORE OUT GAS TEMP DEG-F
 080 DL TEL1106-1 ROW 6 CORE OUT GAS TEMP DEG-F
 081 DL TEL1107-1 ROW 7 CORE OUT GAS TEMP DEG-F



64

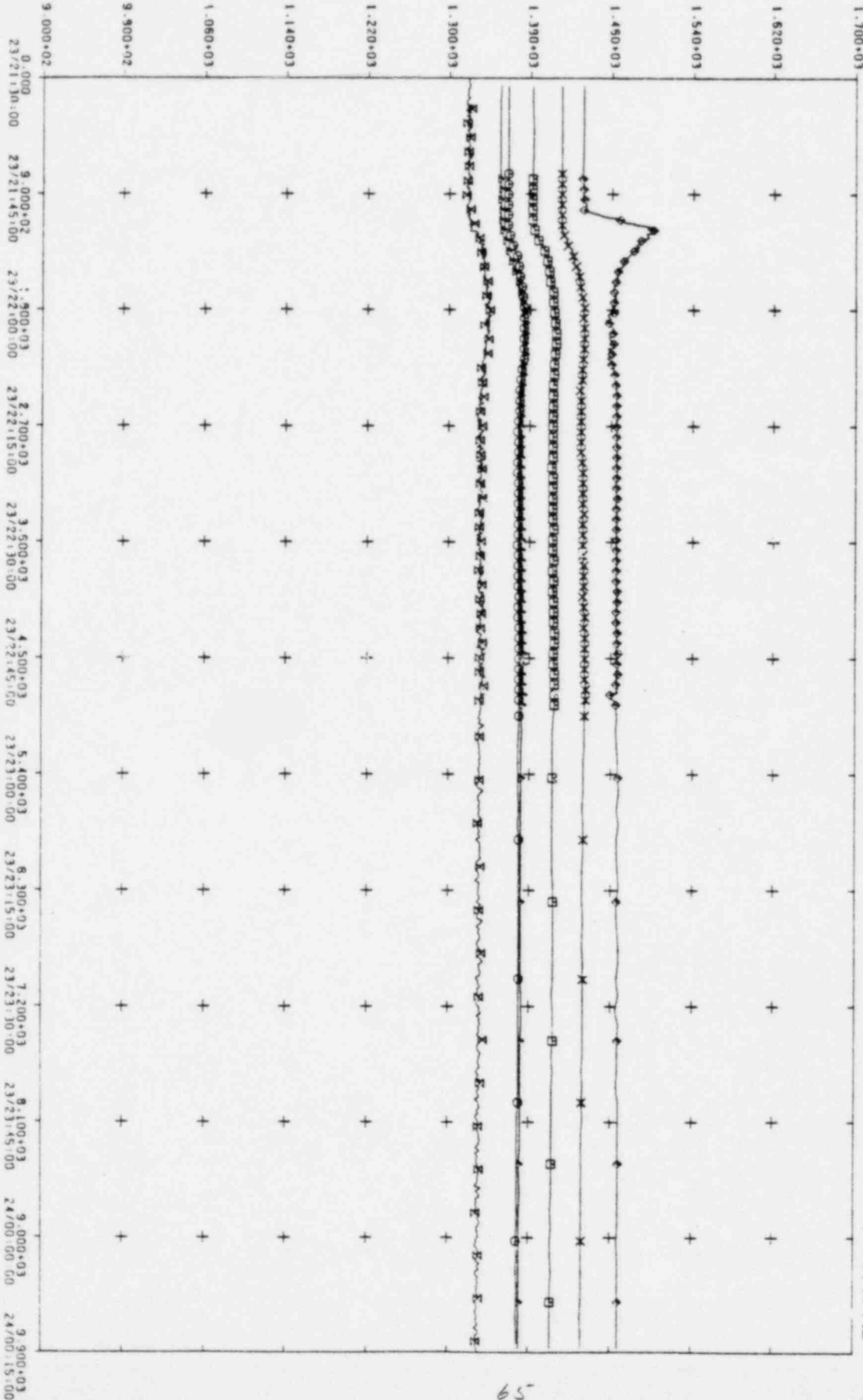
MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 3

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-1-1

102 DL TE11129-1 RGN 29 CORE OUT GAS TEMP DEG-F
 103 DL TE11129-1 RGN 29 CORE OUT GAS TEMP DEG-F
 099 DL TF11114-1 RGN 14 CORE OUT GAS TEMP DEG-F
 097 DL TE11113-1 RGN 13 CORE OUT GAS TEMP DEG-F
 009 DL NIM1139 LINEAR PWR CHAN 9 (PERCENT + 7.000-01/ 1.000-01)
 433 SG B-1-1 AVE HE INLET TEMP CALC



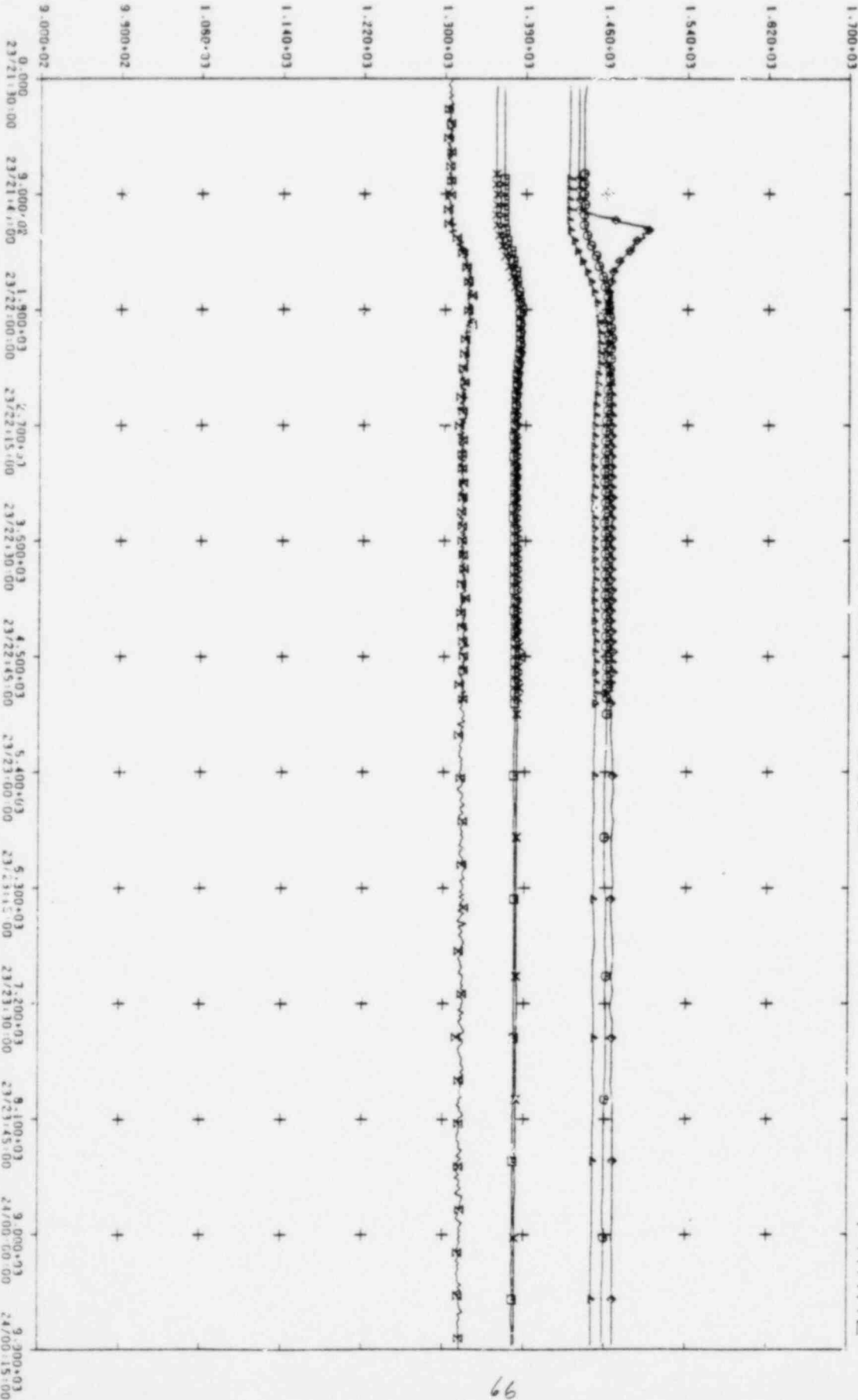
MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 4

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-1-2

103 DL TE11120-1 RGN 20 CORE OUT GAS TEMP DEG-F
 104 DL TE11130-1 RGN 30 CORE OUT GAS TEMP DEG-F
 099 DL TE11115-1 RGN 15 CORE OUT GAS TEMP DEG-F
 099 DL TE11114-1 RGN 14 CORE OUT GAS TEMP DEG-F
 009 DL NIM1135 LINEAR PWR CHAN 9 PERCENT * 7.000+01/ 1.000+011
 434 SO B-1-2 AVE HE INLET TEMP CALC



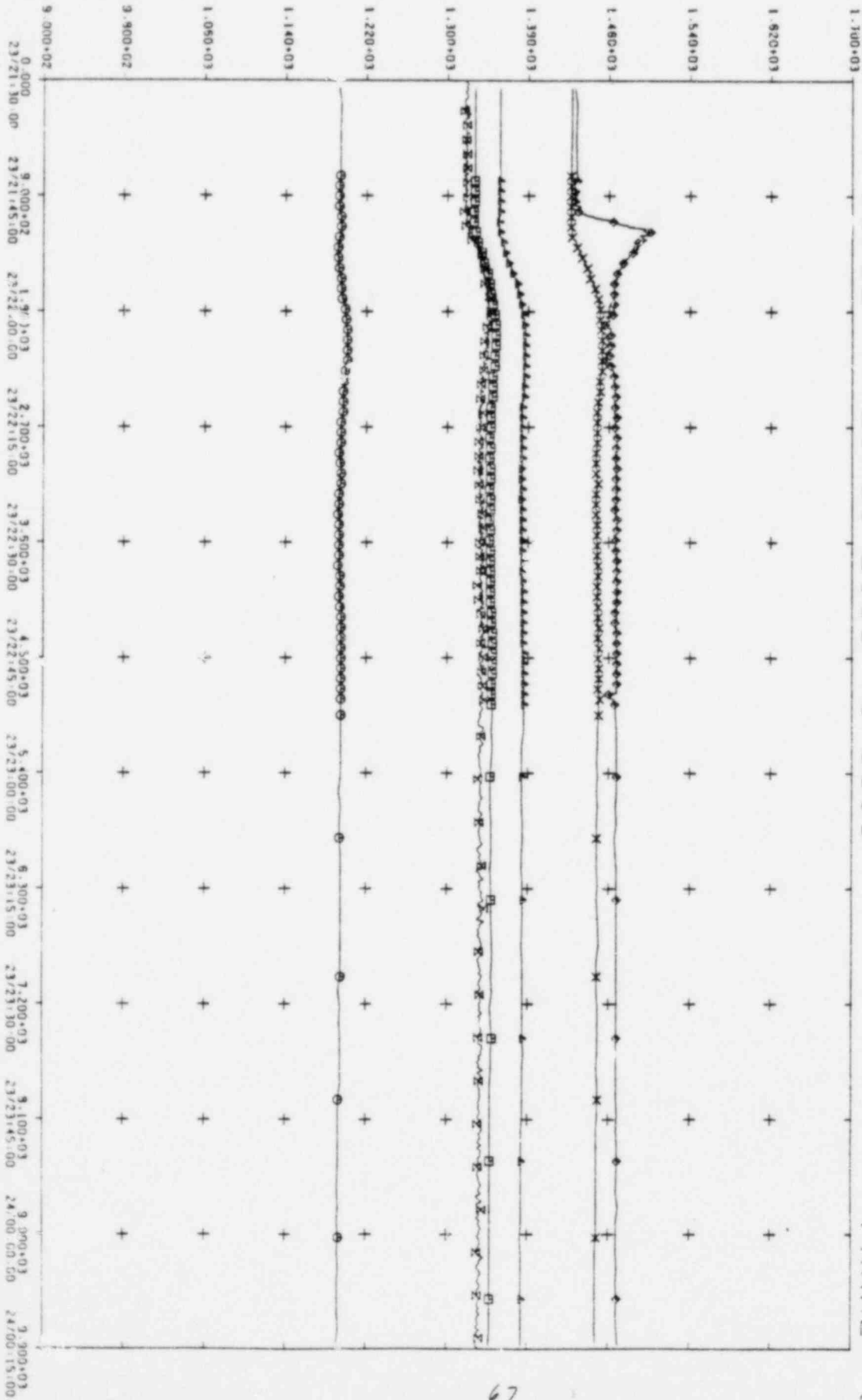
MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 5

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-1-3

105 DL TE11131-1 ROM 31 CORE OUT GAS TEMP DEG-F
 106 DL TE11132-1 ROM 32 CORE OUT GAS TEMP DEG-F
 090 DL TE11116-1 ROM 16 CORE OUT GAS TEMP DEG-F
 089 DL TE11115-1 ROM 15 CORE OUT GAS TEMP DEG-F
 004 DL NIM1134-4 LINEAR PWR CHAN 4 PERCENT + 7.25C+01/ 1.000-011
 435 C B-1-3 AVE HE INLET TEMP CALC



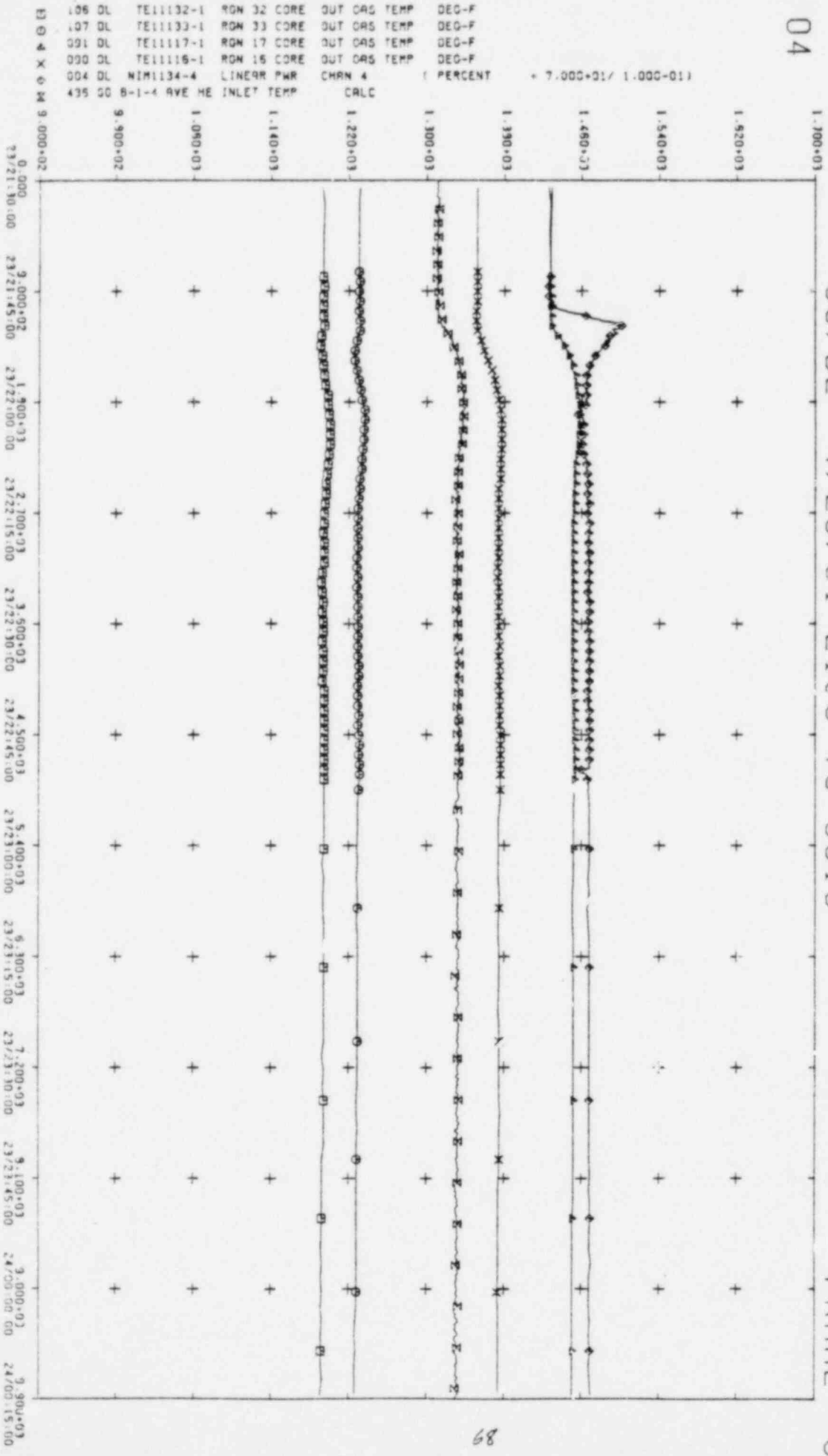
MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 6

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-1-4

106 DL TEL1132-1 RGN 32 CORE OUT GAS TEMP DEG-F
107 DL TEL1133-1 RGN 33 CORE OUT GAS TEMP DEG-F
091 DL TEL1117-1 RGN 17 CORE OUT GAS TEMP DEG-F
090 DL TEL1116-1 RGN 16 CORE OUT GAS TEMP DEG-F
004 DL NIM1134-4 LINEAR PWR CHAN 4 (PERCENT + 7.000+01/ 1.000-01)
435 GO B-1-4 AVE HE INLET TEMP CALC



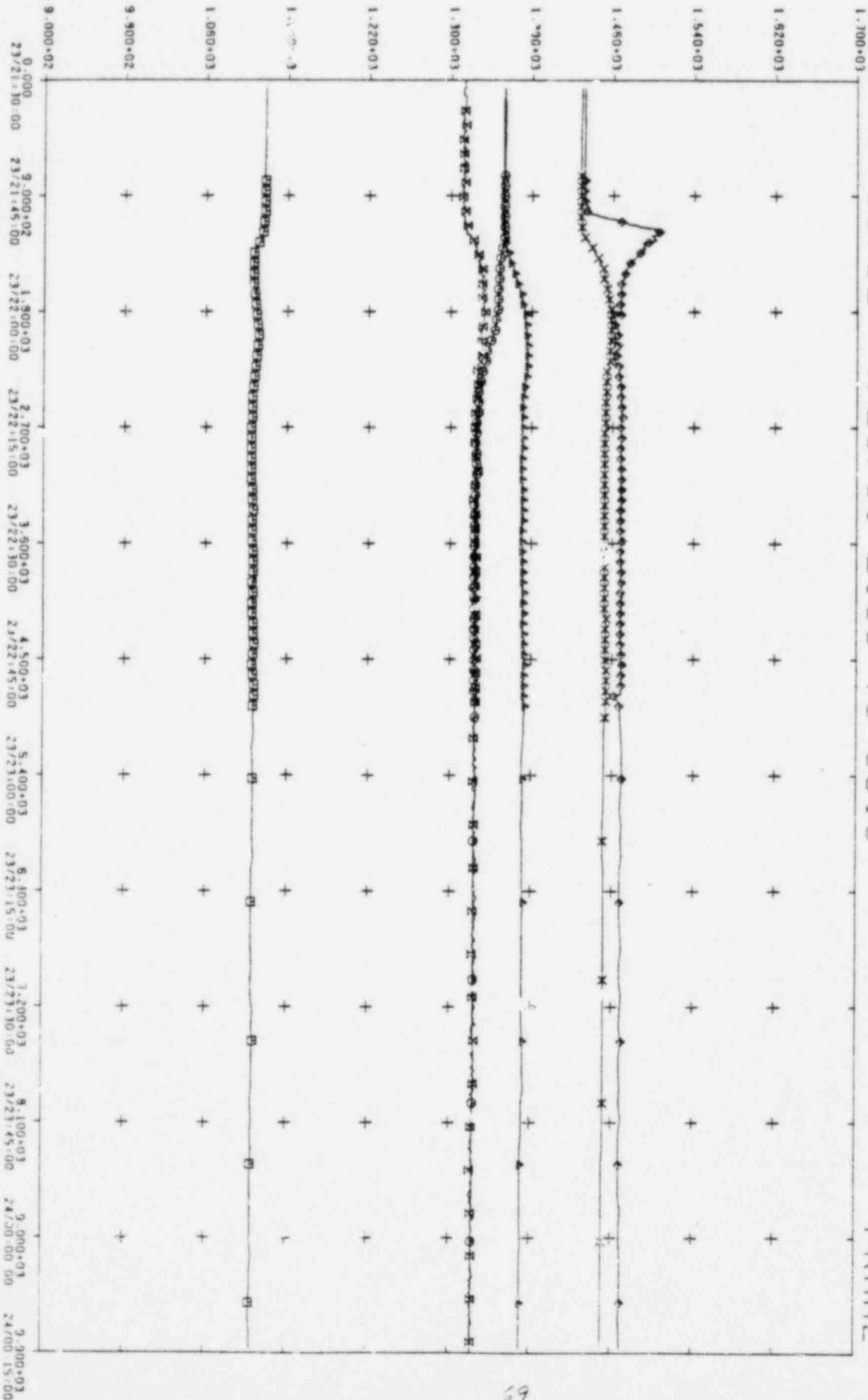
MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 7

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-1-5

109 DL TE11134-1 ROW 34 CORE OUT GAS TEMP DEG-F
 109 DL TE11135-1 ROW 35 CORE OUT GAS TEMP DEG-F
 092 DL TE11117-1 ROW 18 CORE OUT GAS TEMP DEG-F
 091 DL TE11117-1 ROW 17 CORE OUT GAS TEMP DEG-F
 006 DL NIM1135 LINEAR PWR CHAN 6 PERCENT * 7.000+01 / 1.000+01
 437 SD S-1-5 AVE HE INLET TEMP CALC



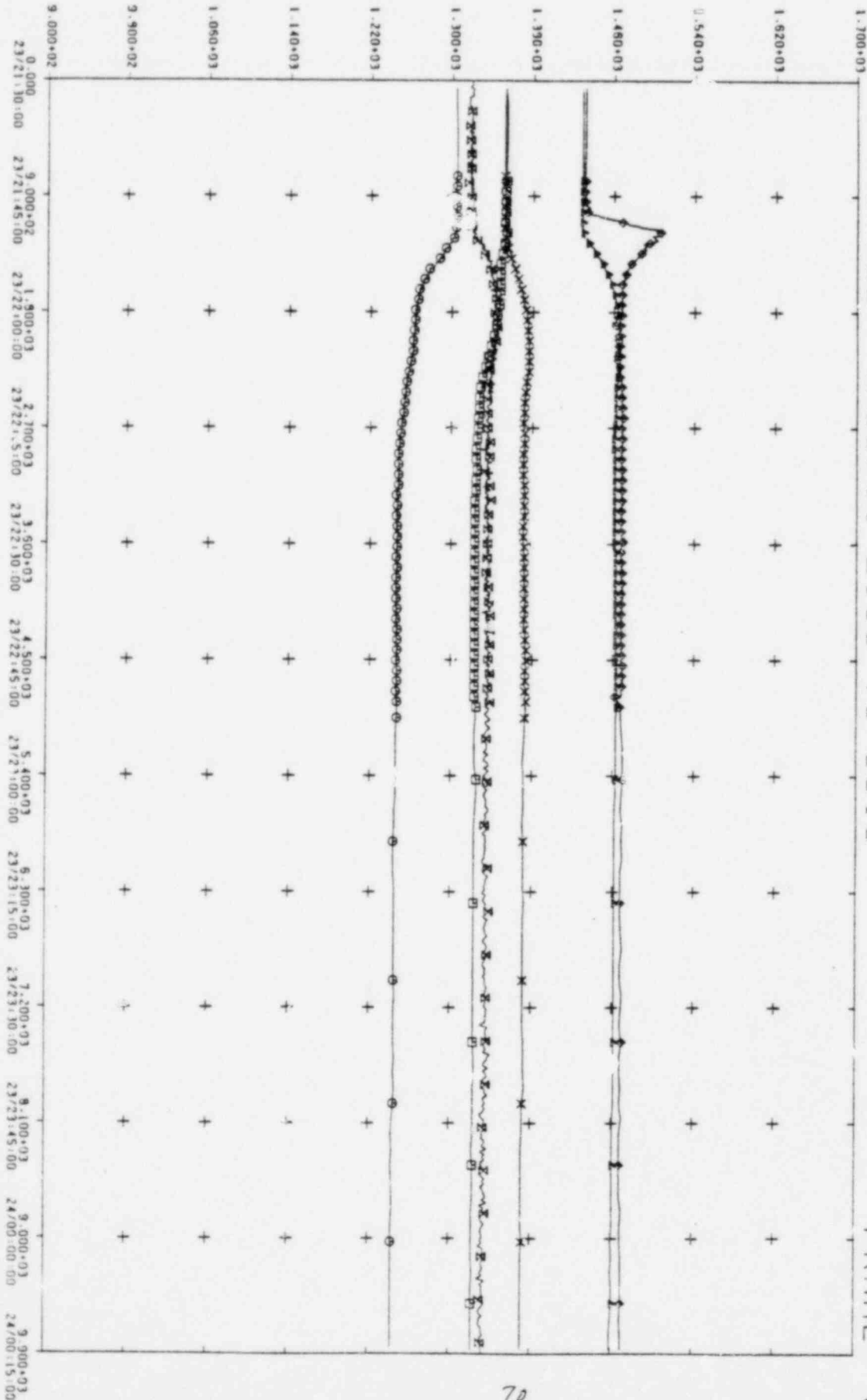
MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 8

GAS OUTLET, LINEAR PWR. AVE HE INLT NEAR B-1-6

100 DL TEL1135-1 RGN 35 CORE OUT GAS TEMP DEG-F
 110 DL TEL1135-1 RGN 35 CORE OUT GAS TEMP DEG-F
 093 DL TEL1119-1 RGN 19 CORE OUT GAS TEMP DEG-F
 092 DL TEL1119-1 RGN 19 CORE OUT GAS TEMP DEG-F
 006 DL NIM1136 LINEAR PWR CHAN 6 (PERCENT + 7.000+01/ 1.000+01)
 439 SO B-1-6 AVE HE INLET TEMP CALC



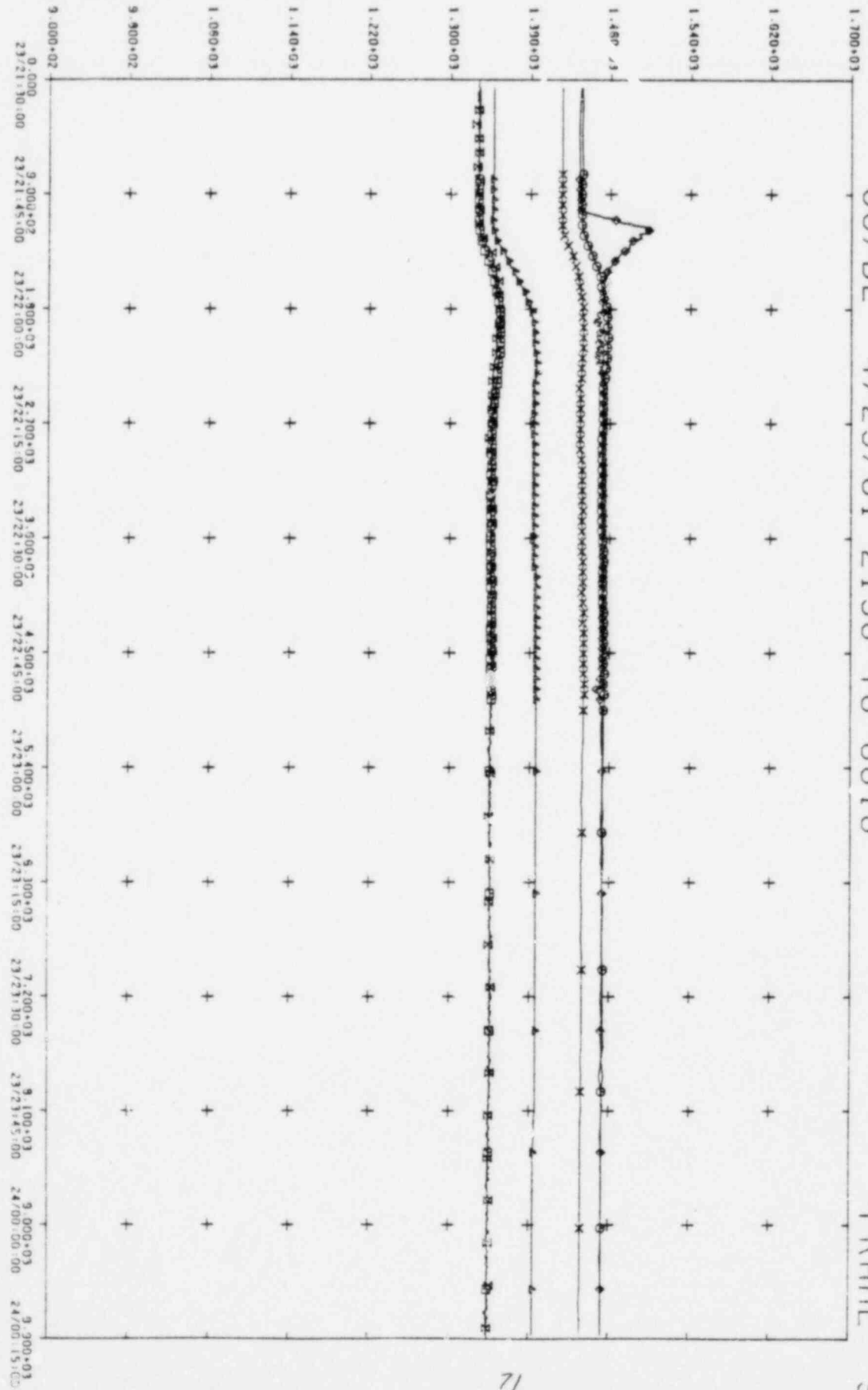
MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 9

SCS OUTLET, LINEAR PWR, AVE HE INLT NEAR S-2-1

100 DL TE11127-1 RGN 25 CORE OUT CAS TEMP DEG-F
101 DL TE11127-1 RGN 27 CORE OUT CAS TEMP DEG-F
096 DL TE11112-1 RGN 12 CORE OUT CAS TEMP DEG-F
097 DL TE11113-1 RGN 13 CORE OUT CAS TEMP DEG-F
003 DL NIM1133-3 LINEAR PWR CHAN 3 PERCENT * 7.000+01/ 1.000+01
439 SO S-2-1 AVE HE INLET TEMP CALC



MO 04

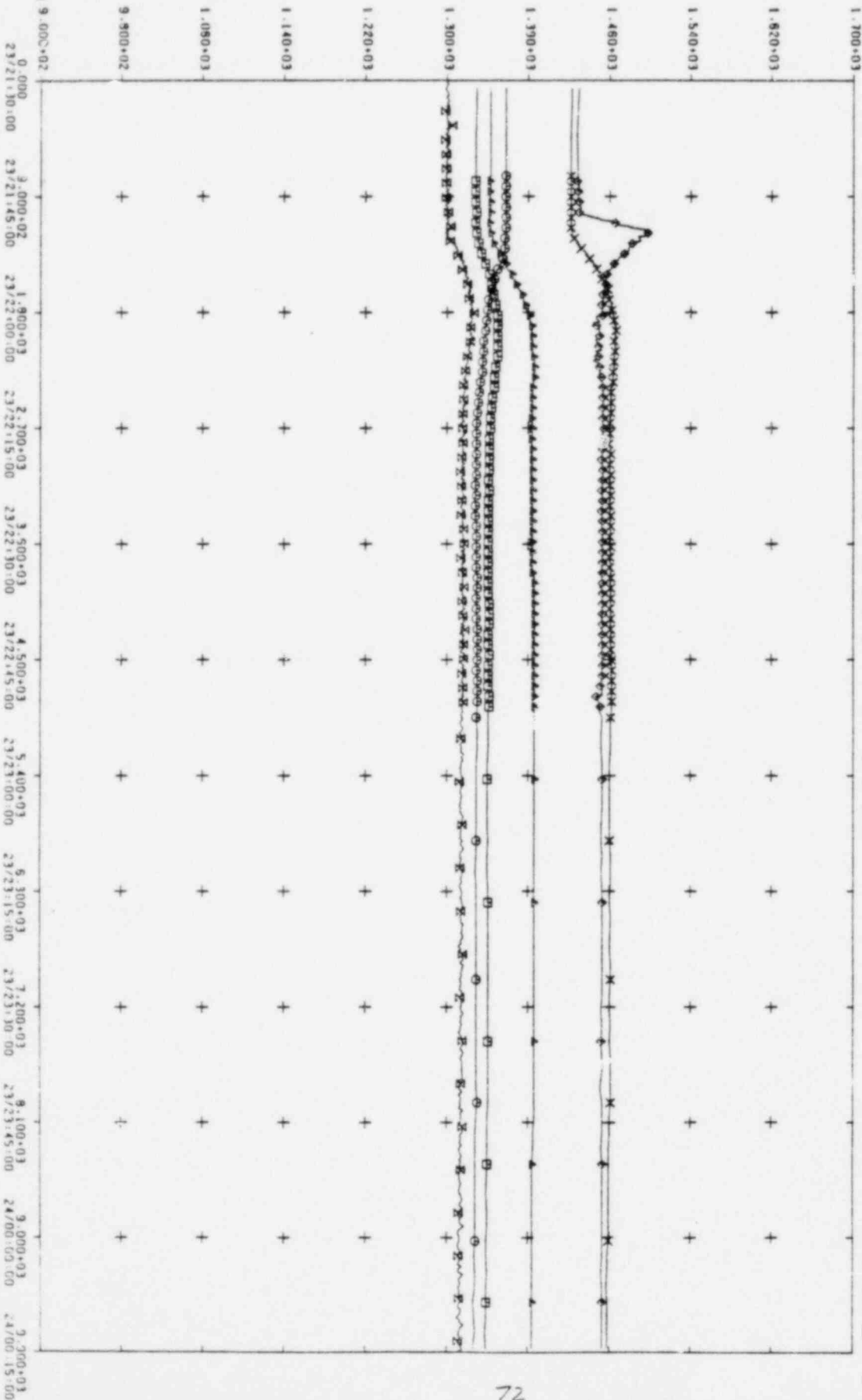
SG/DL 4/23/81 2130 10 0015

FRAME 10

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR S-2-2

100 DL TE11125-1 ROM 29 CORE OUT GAS TEMP DEG-F
 099 DL TE11125-1 ROM 29 CORE OUT GAS TEMP DEG-F
 098 DL TE11112-1 ROM 12 CORE OUT OF TEMP DEG-F
 095 DL TE11111-1 ROM 11 CORE OUT GAS TEMP DEG-F
 003 DL NIM1133-3 LINEAR PWR CHAN 3 PERCENT
 440 GO S-2-2 AVE HE INLET TEMP CALC

+ 7.000-01/ 1.000-011



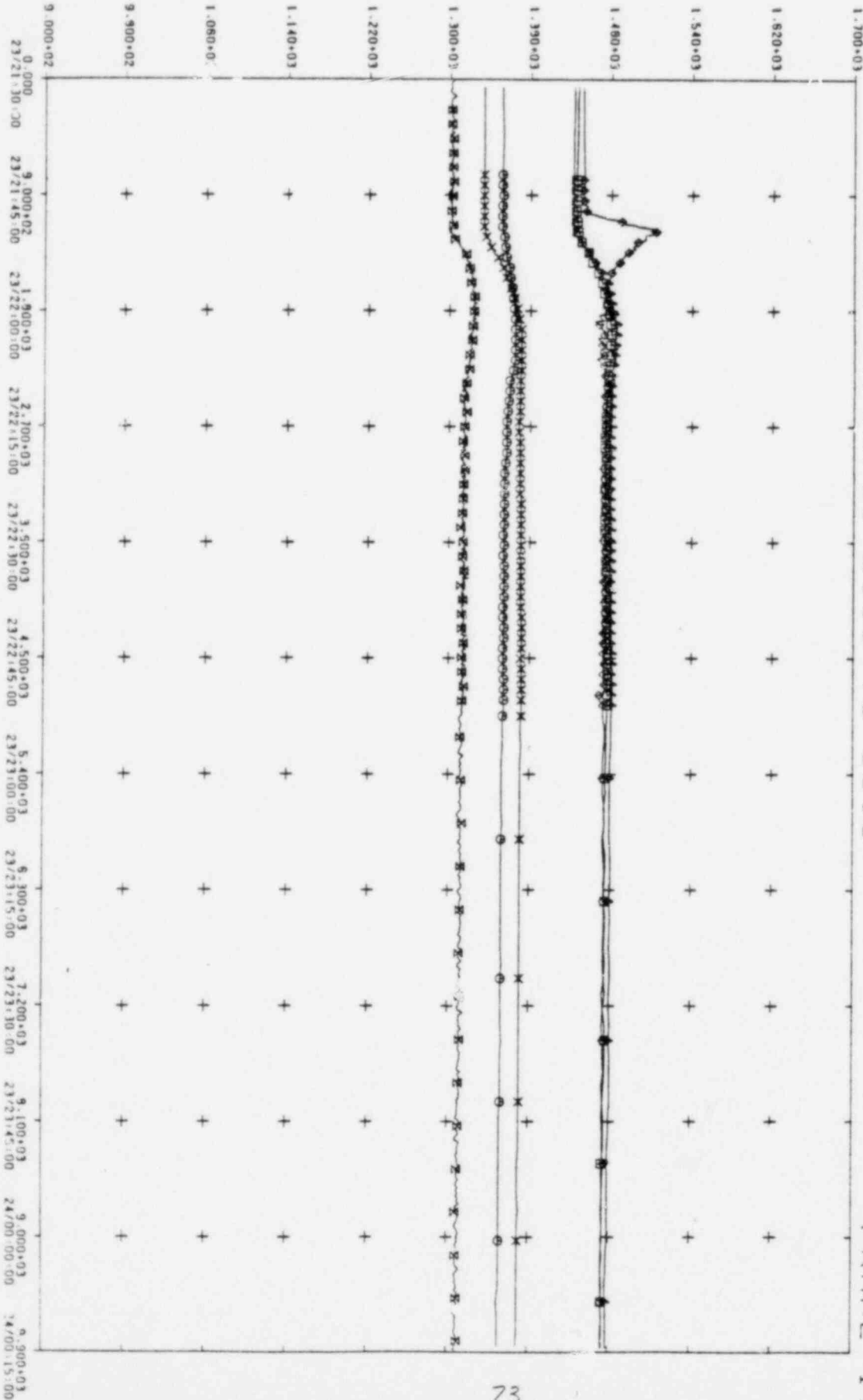
MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 11

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR 8-2-3

039 DL TEL1124-1 RON 24 CORE OUT GAS TEMP DEG-F
 007 DL TEL1123-1 RON 23 CORE OUT GAS TEMP DEG-F
 085 DL TEL1111-1 RON 11 CORE OUT GAS TEMP DEG-F
 084 DL TEL1110-1 RON 10 CORE OUT GAS TEMP DEG-F
 007 DL NIM1137 LINEAR PWR CHAN 7 (PERCENT + 7.000+01/ 1.000-01)
 441 SC 8-2-3 AVE HE INLET TEMP CALC



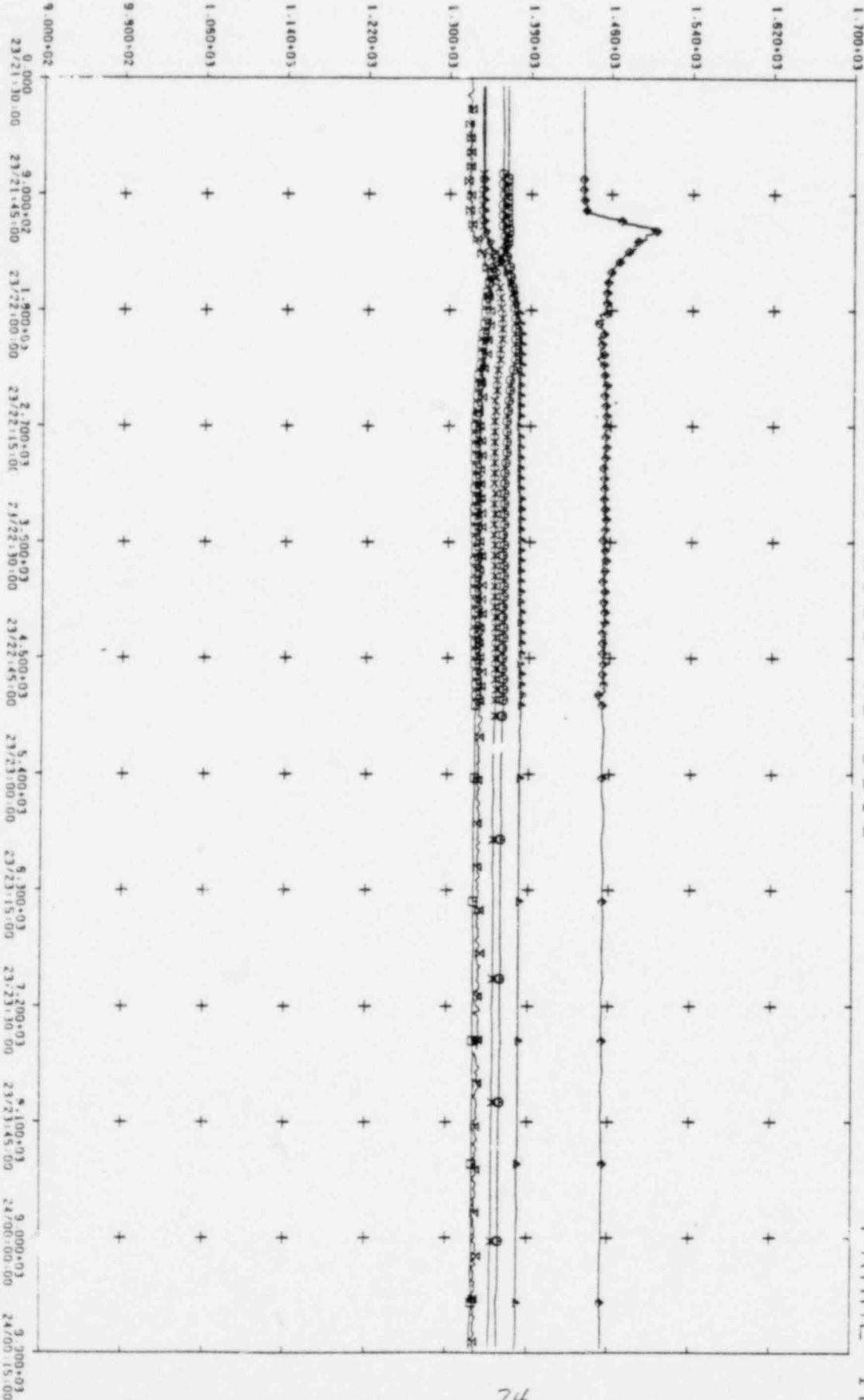
MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 12

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-2-4

095 DL TE11122-1 RGN 22 CORE OUT GAS TEMP DEG-F
 097 DL TE11123-1 RGN 23 CORE OUT GAS TEMP DEG-F
 094 DL TE11110-1 RGN 10 CORE OUT GAS TEMP DEG-F
 093 DL TE11109-1 RGN 9 CORE OUT GAS TEMP DEG-F
 007 DL NIM1137 LINEAR PWR CHAN 7 PERCENT + 7.000-01/ 1.000-011
 442 SO B-2-4 AVE HE INLET TEMP CALC



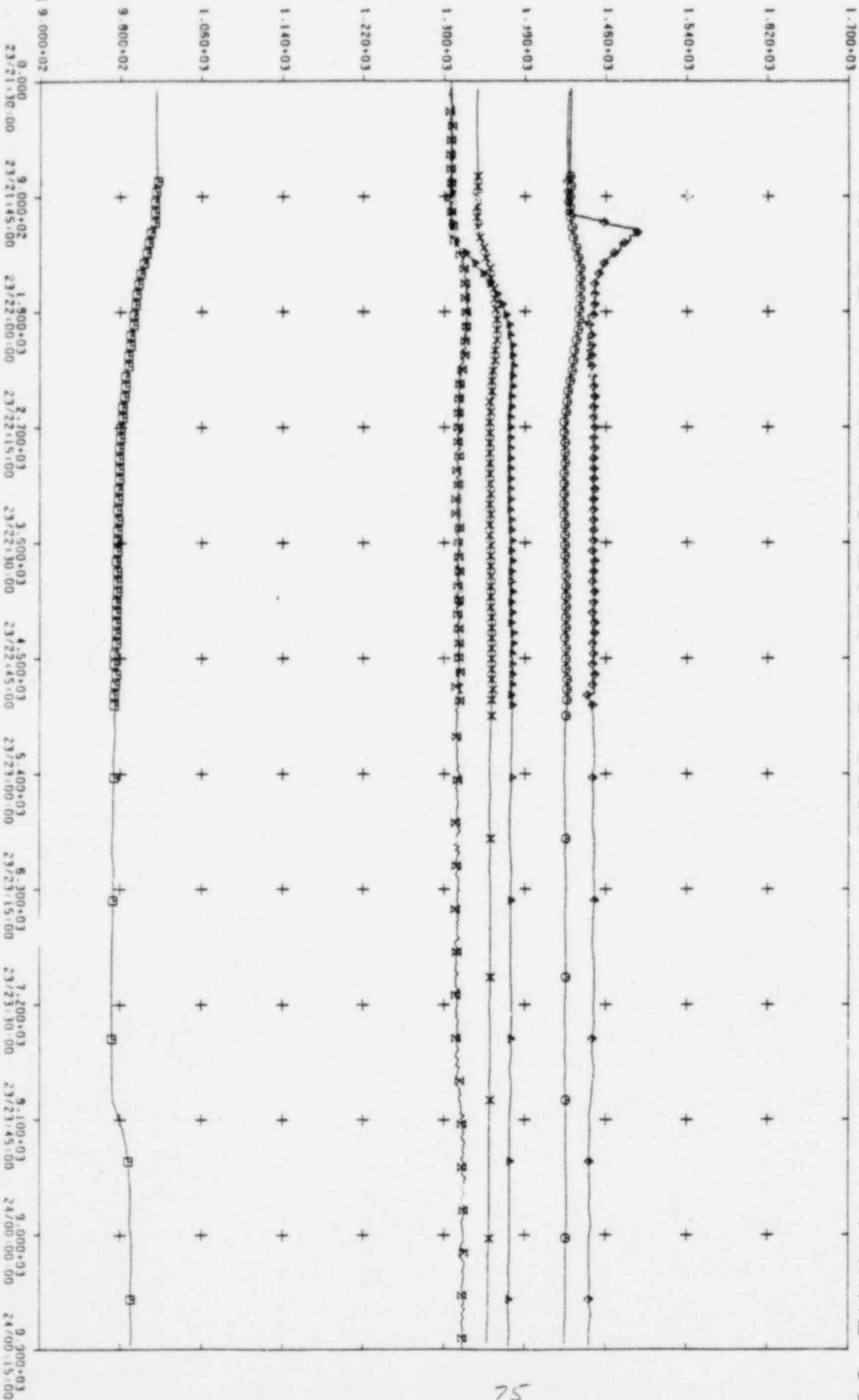
M0 04

SG/DL 4/23/81 2130 TO 0015

FRAME 13

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR S-2-5

084 DL TE11120-1 RQM 20 CORE OUT GAS TEMP DEG-F
 085 DL TE11121-1 RQM 21 CORE OUT GAS TEMP DEG-F
 082 DL TE11109-1 RQM 5 CORE OUT GAS TEMP DEG-F
 083 DL TE11109-1 RQM 3 CORE OUT GAS TEMP DEG-F
 005 DL NIM1135-5 LINEAR PWR CHAN 5 PERCENT * 7.000+01/ 1.000-011
 411 50 S-2-5 AVE HE INLET TEMP CALC



MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 14

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR 3-2-6

111 DL	TE11137-1	ROW 37 CORE	OUT GAS TEMP	DEG-F
094 DL	TE11120-1	ROW 20 CORE	OUT GAS TEMP	DEG-F
092 DL	TE11108-1	ROW 9 CORE	OUT GAS TEMP	DEG-F
093 DL	TE11119-1	ROW 19 CORE	OUT GAS TEMP	DEG-F
005 DI	NIM1135-5	LINEAR PWR	CHAN 5	1 PERCENT
444 SO	B-2-6 AVE HE INLET TEMP	CHLC		* 7.000*01/ 1.000*011

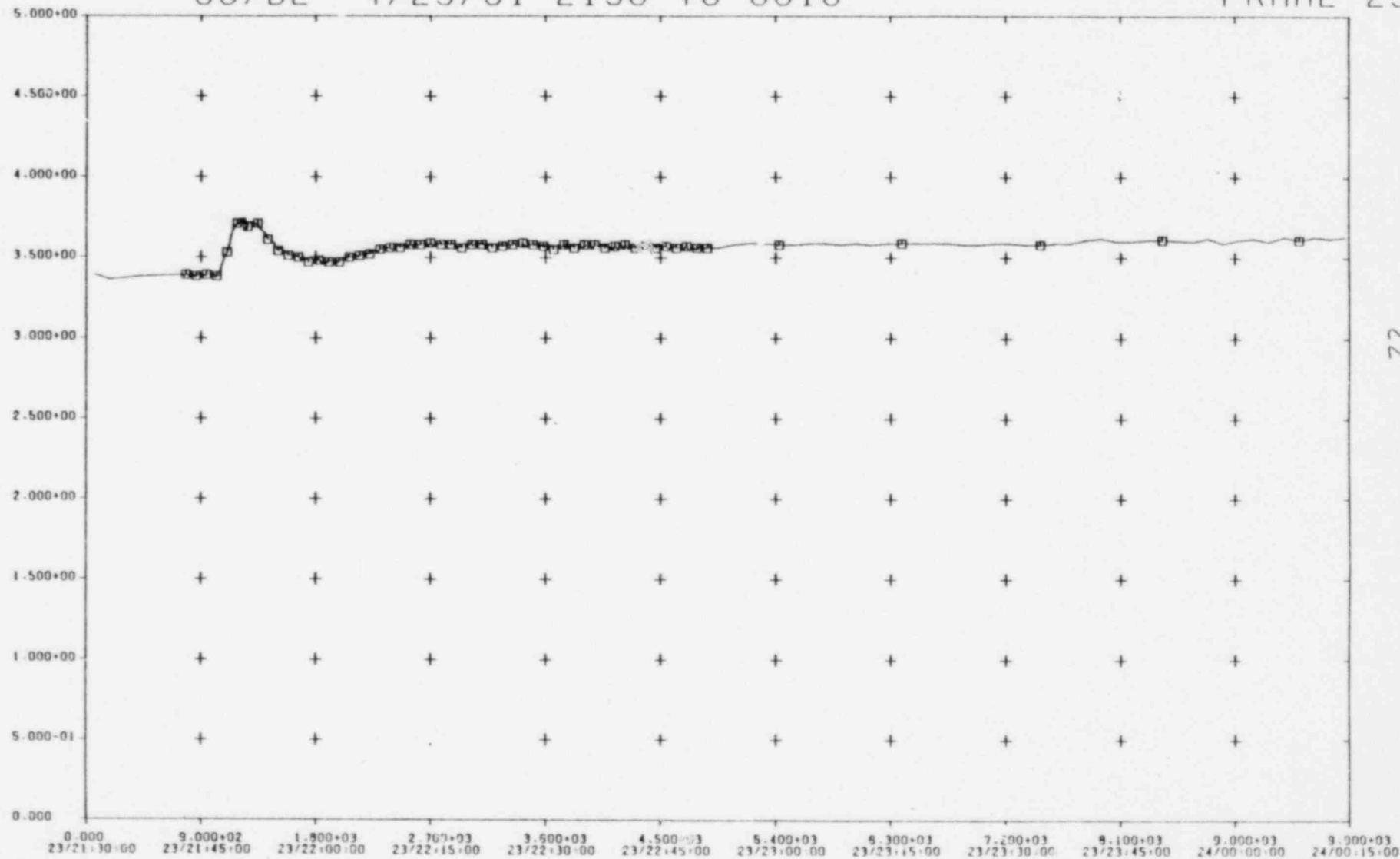


MO 04

SG/DL 4/23/81 2130 TO 0015

FRAME 23

PSID
CORE DP
DL



MO 04

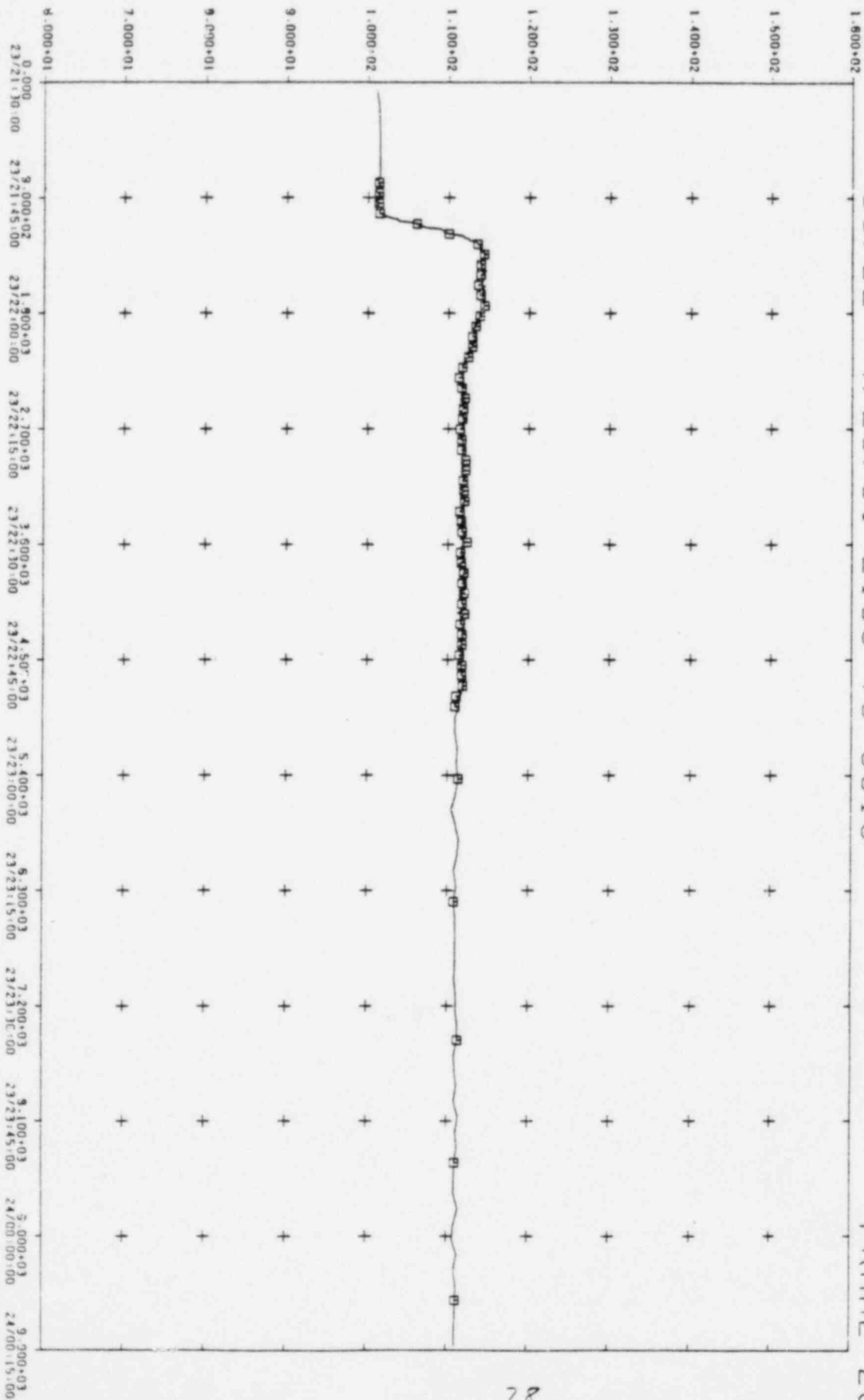
SG/DL 4/23/81 2130 TO 0015

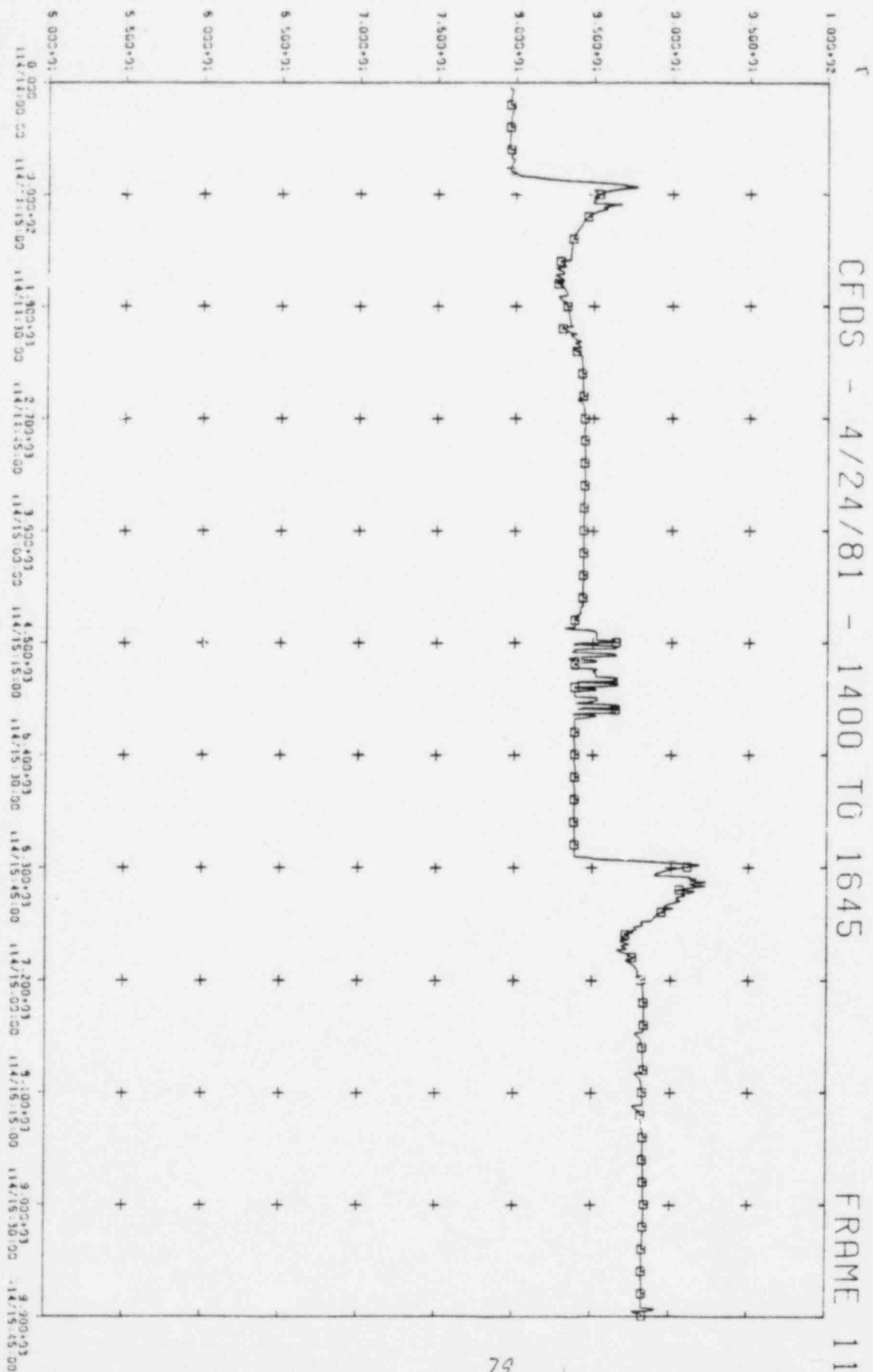
FRAME 25

REG ROD

ROM Q1 CNTRL ROD POSITION INS

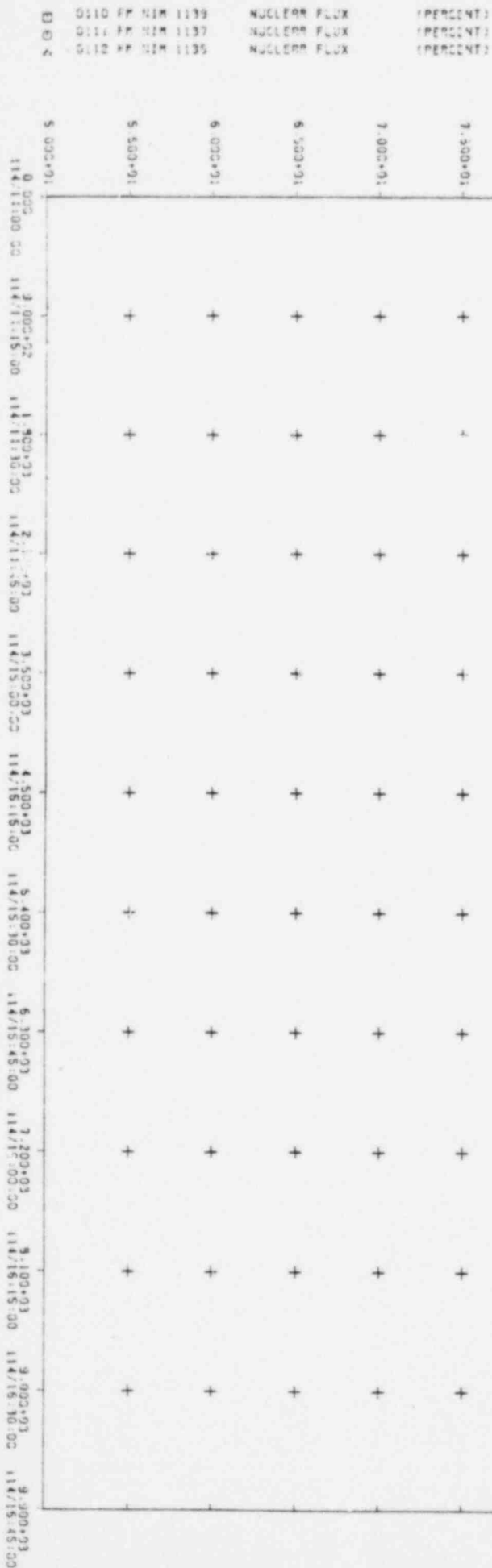
E 039 DL



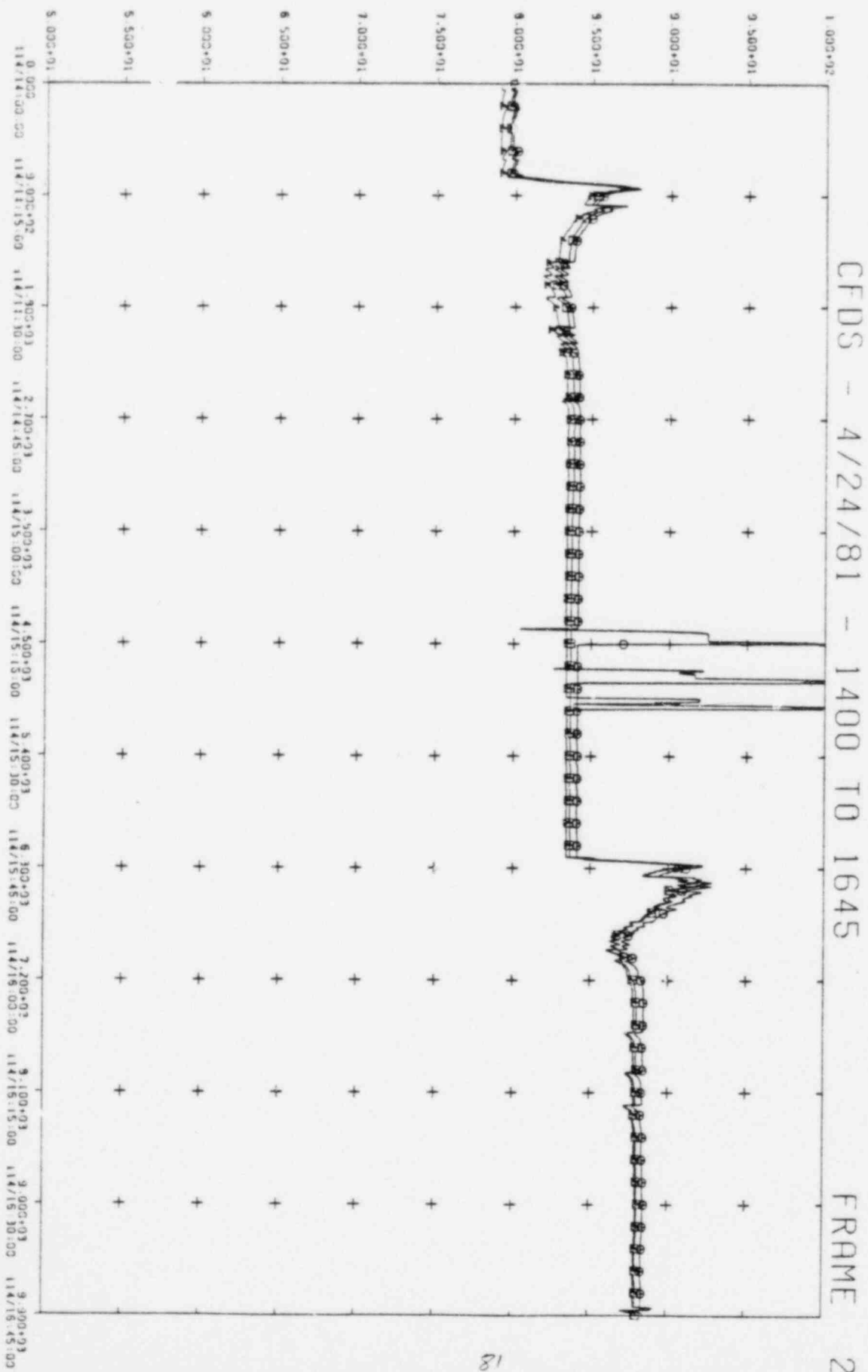


CFDS - 4/24/81 - 1400 TO 1645

FRAME 1

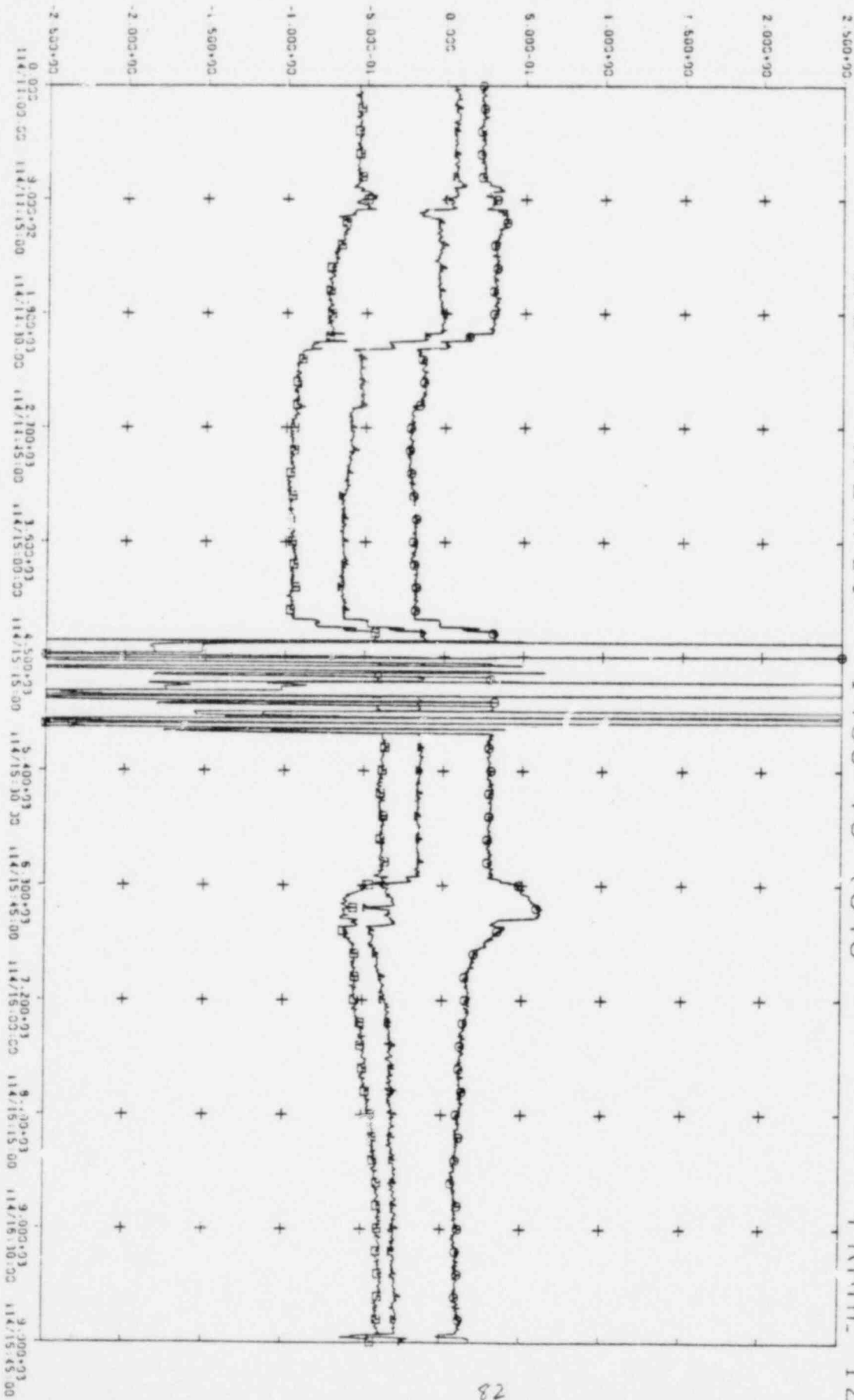


0113 FM NIM 1135-3 NUCLEON FLUX (PERCENT)
 0114 FM NIM 1134-3 NUCLEON FLUX (PERCENT)
 0115 FM NIM 1133-3 NUCLEON FLUX (PERCENT)



CFDS - 4/24/81 - 1400 TO 1645

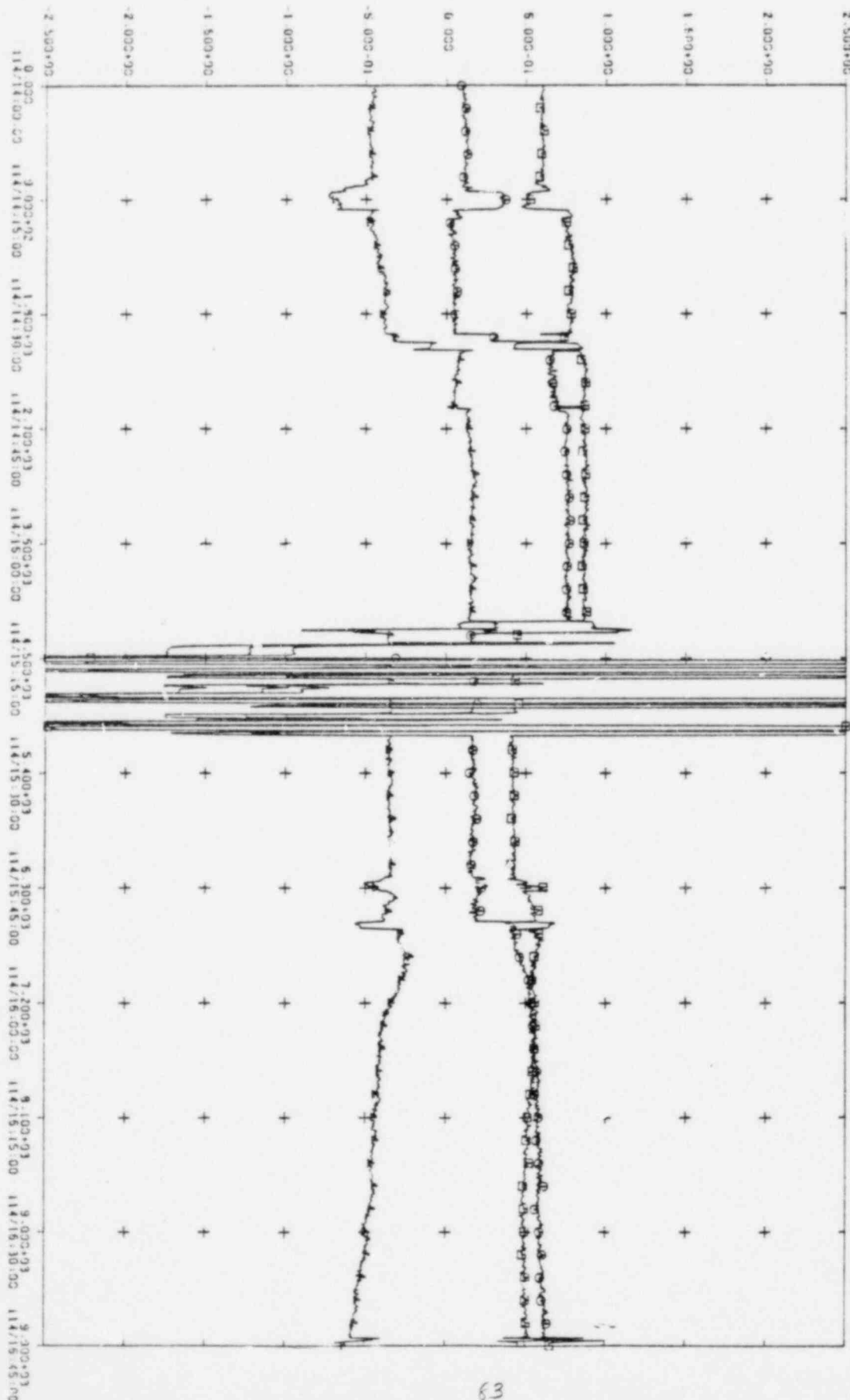
FRAME 12

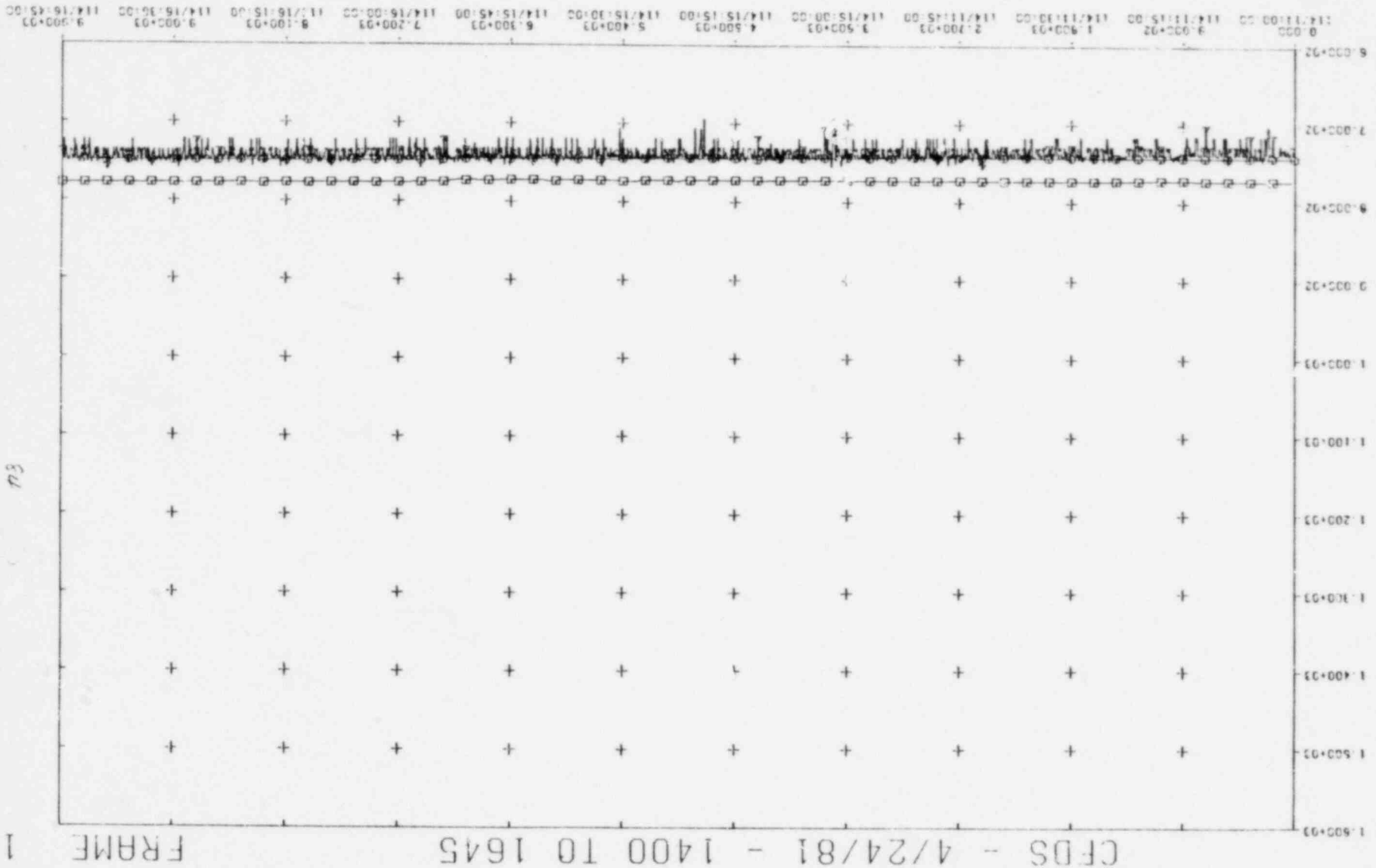


CFDS - 4/24/81 - 1400 TO 1645

FRAME 13

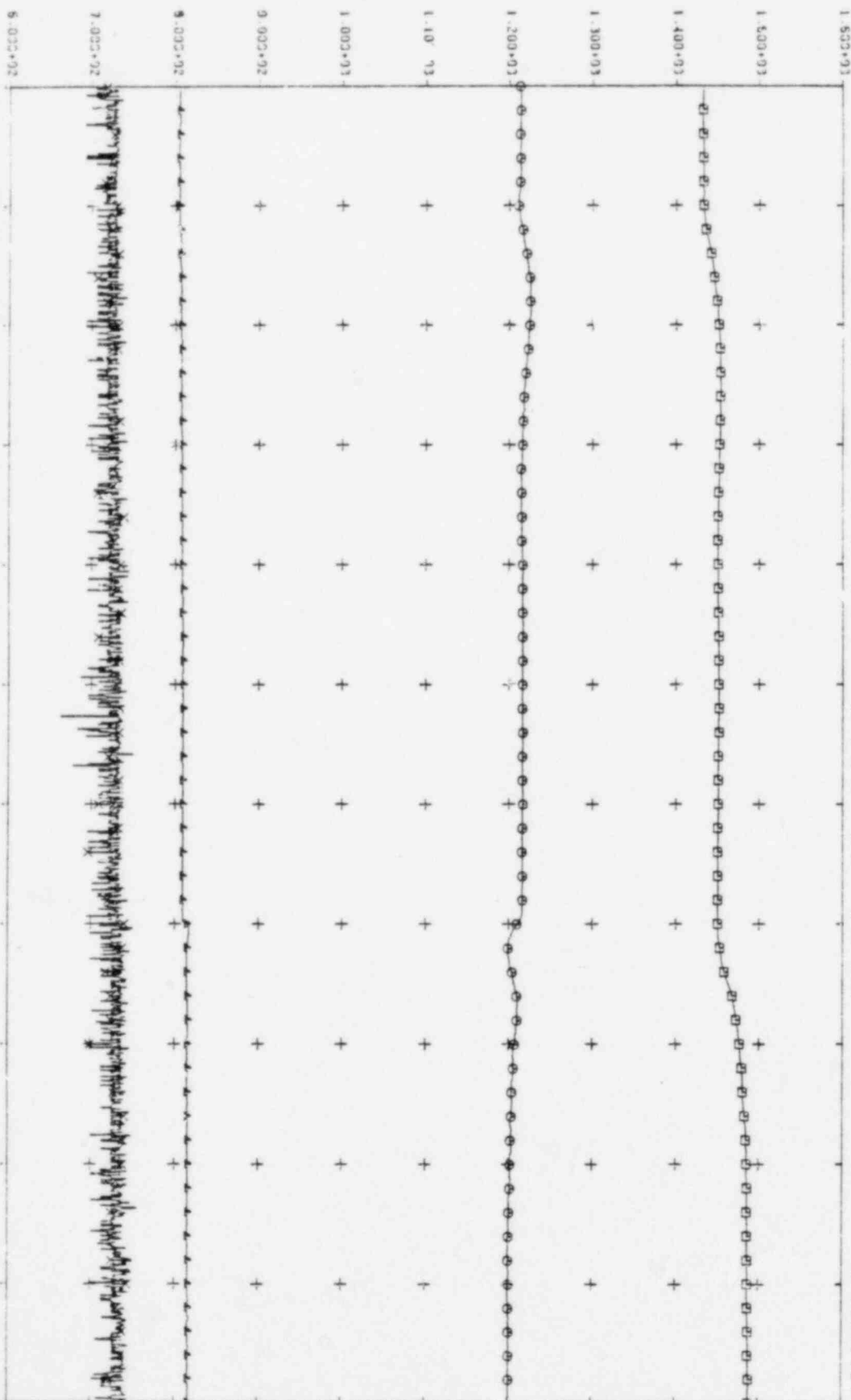
1504 FM CALCULATED (DEY) NIM 1135 - AVE
 1503 FM CALCULATED (DEY) NIM 1. - AVE
 1502 FM CALCULATED (DEY) NIM 1139 - AVE





CFDS - 4/24/81 - 1400 TO 1645

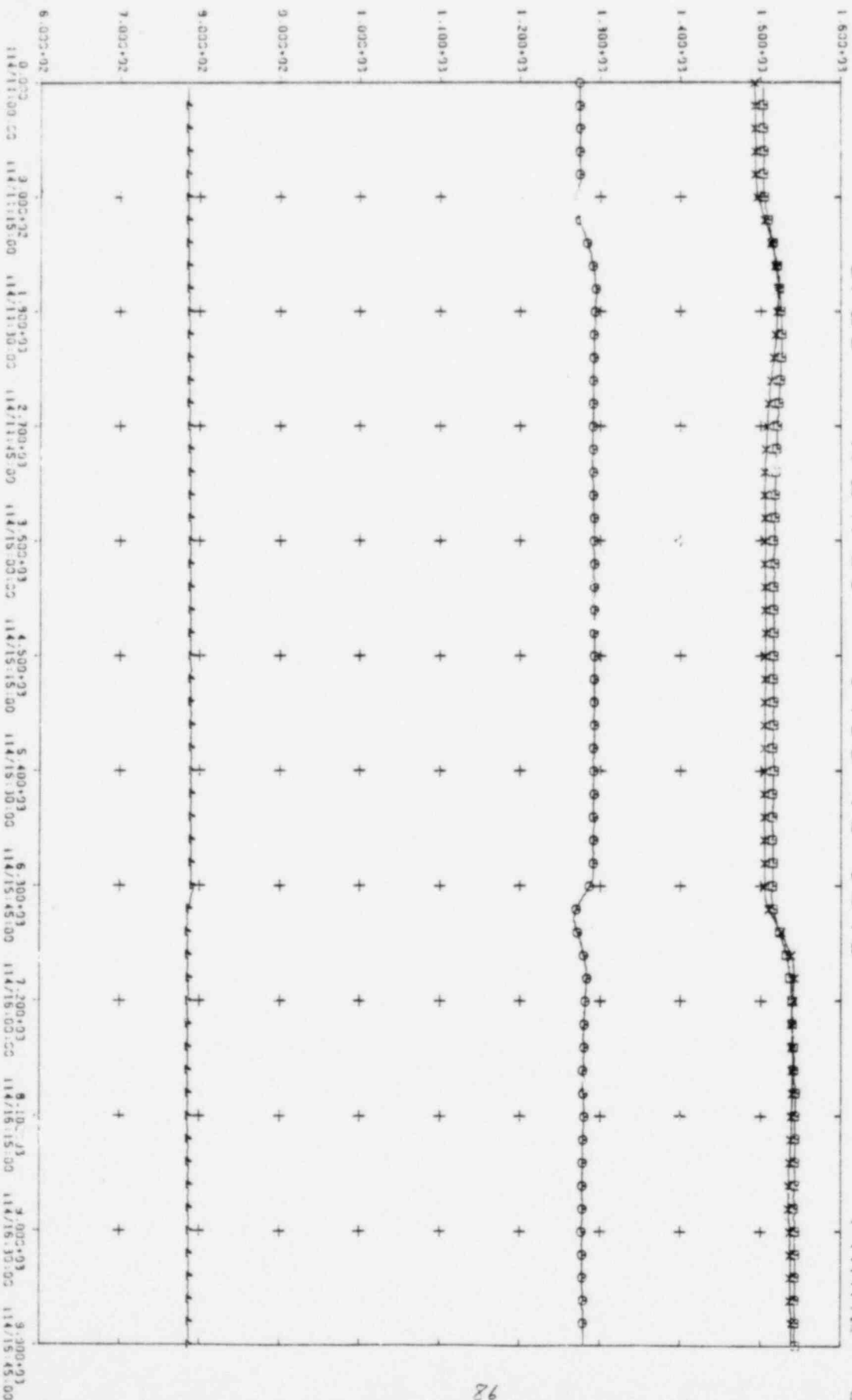
FRAME 2



CFDS - 4/24/81 - 1400 TO 1645

FRAME 3

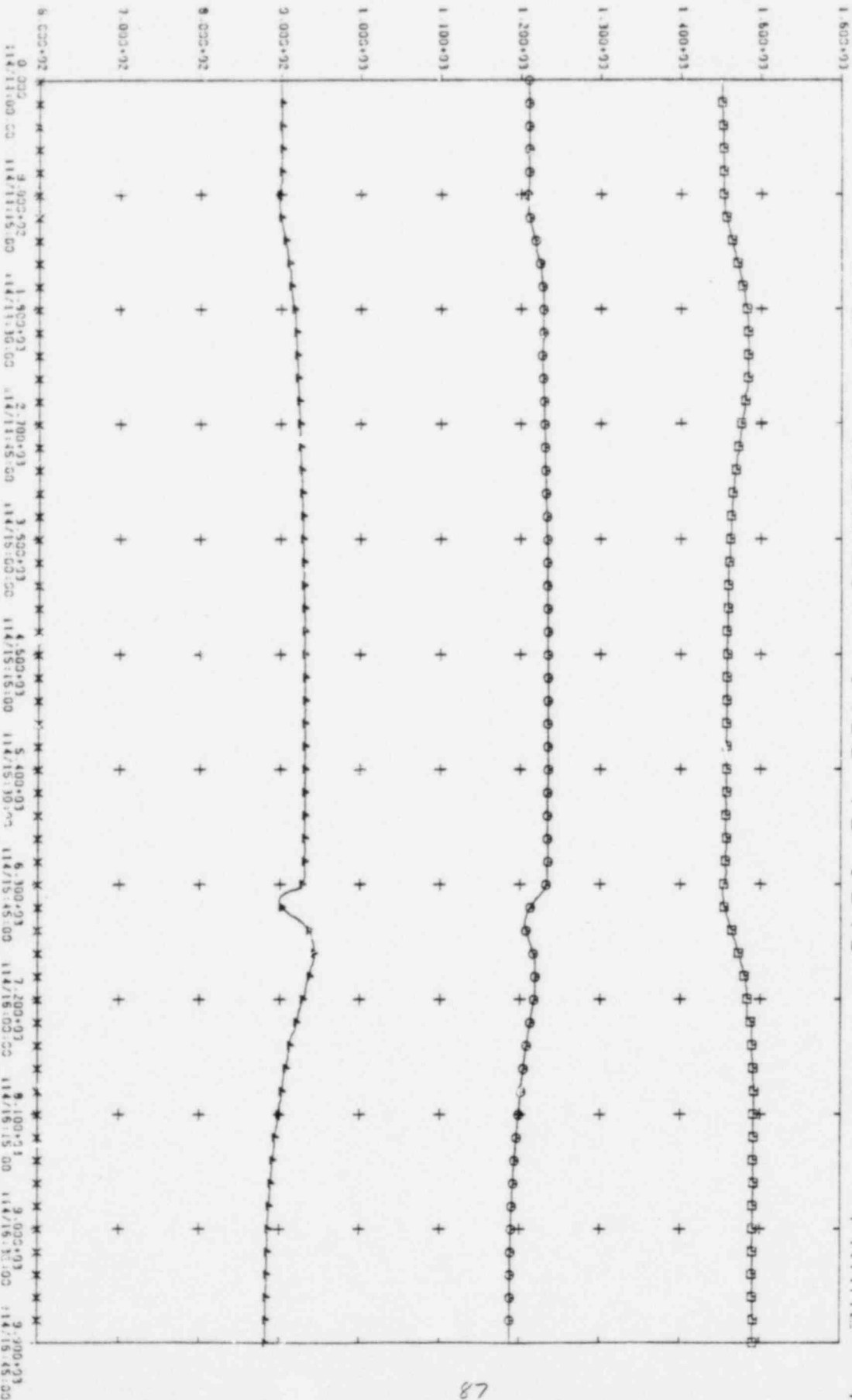
207 FR TC 7	TRAPVERSING TC	DEC F1	1 + -3.000+00/ 1.000+00
208 FR TC 8	TRAPVERSING TC	DEC F1	1 + -5.000+00/ 1.000+00
209 FR TC 9	TRAPVERSING TC	DEC F1	1 + -1.600+01/ 1.000+00
210 FR TC 10	TRAPVERSING TC	DEC F1	1 + -1.700+01/ 1.000+00



CFDS - 4/24/81 - 1400 TO 1645

FRAME 4

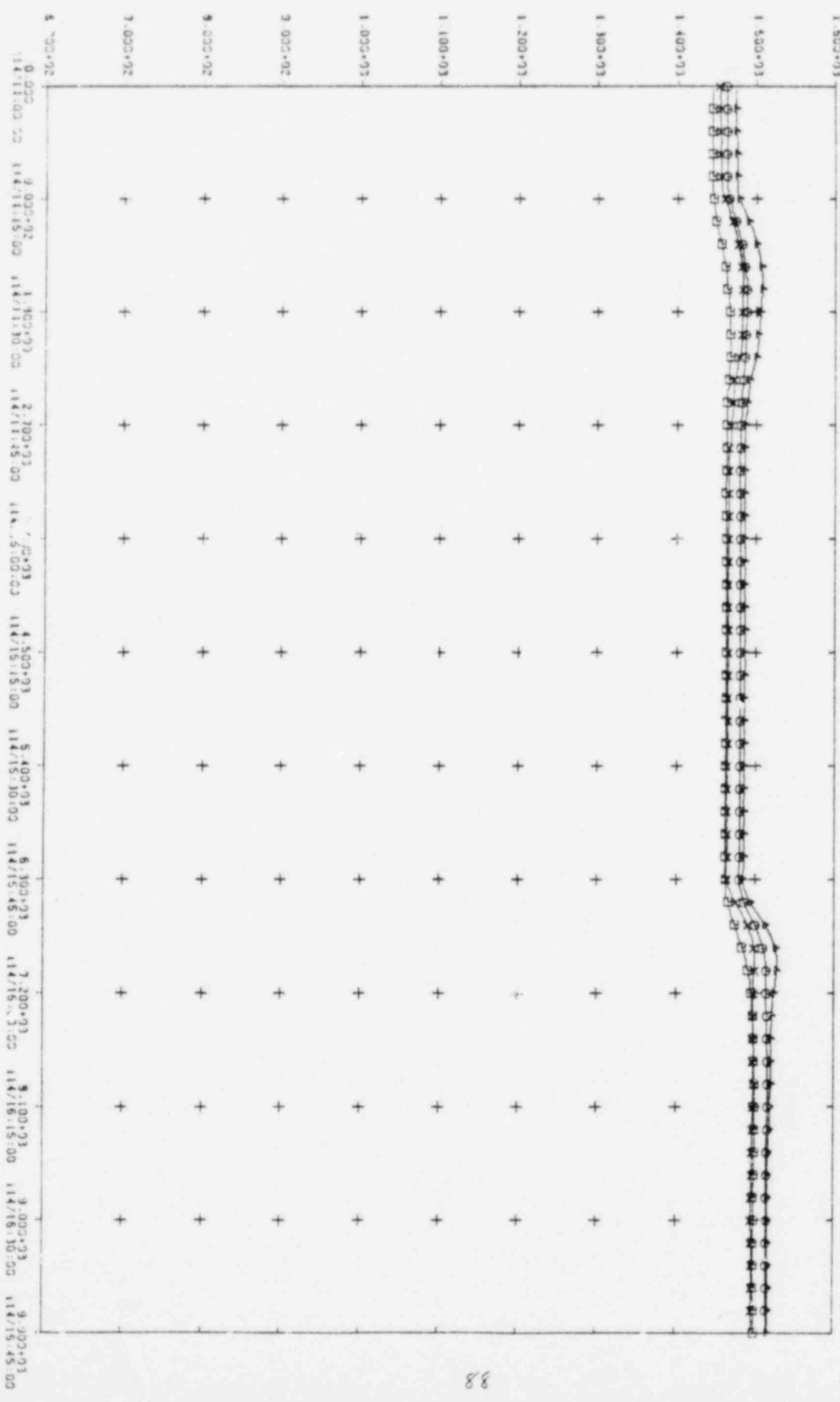
STRING E A
 TRVERSING TC
 TRVERSING TC
 TRVERSING TC
 TRVERSING TC
 1000 F1
 1000 F1
 1000 F1
 1000 F1
 1 * 2.000+00/ 1.000+00
 1 * -1.500+01/ 1.000+00
 1 * 7.000+00/ 1.000+00



CFDS - 4/24/81 - 1400 TO 1645

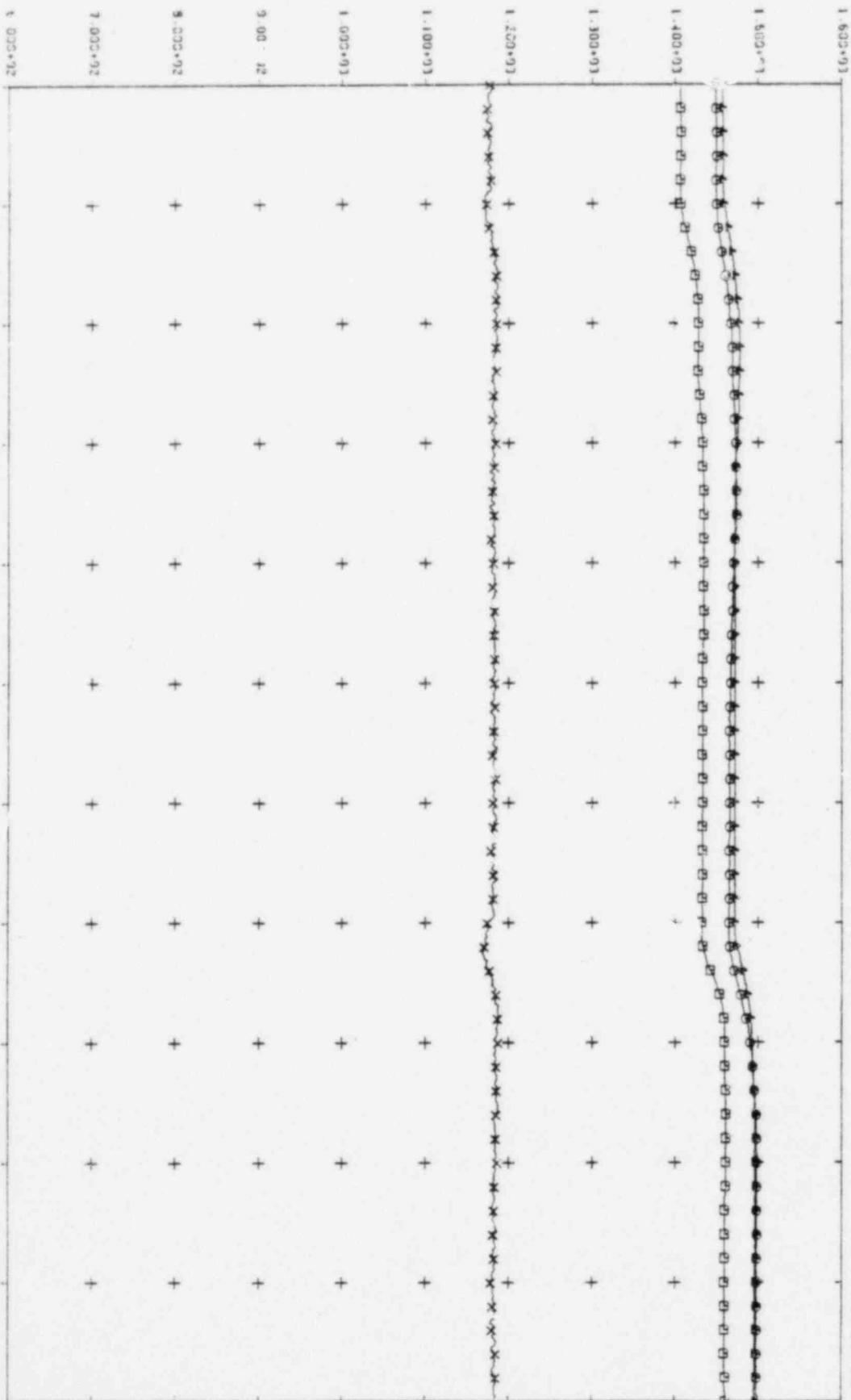
FRAME 5

STRING 1 5
 215 FM TC 15 TRAVERSING TC (DEG F) 1.500+01/ 1.000+00
 216 TC 16 TRAVERSING TC (DEG F) 1.300+01/ 1.000+00
 217 TC 17 TRAVERSING TC (DEG F) 1.700+01/ 1.000+00
 219 FM TC 19 TRAVERSING TC (DEG F) 1.500+01/ 1.000+00



CFDS - 4/24/81 - 1400 TO 1645

FRAME 6



STRING E 5

TRPVERSING TC
TRPVERSING TC
TRPVERSING TC
TRPVERSING TC

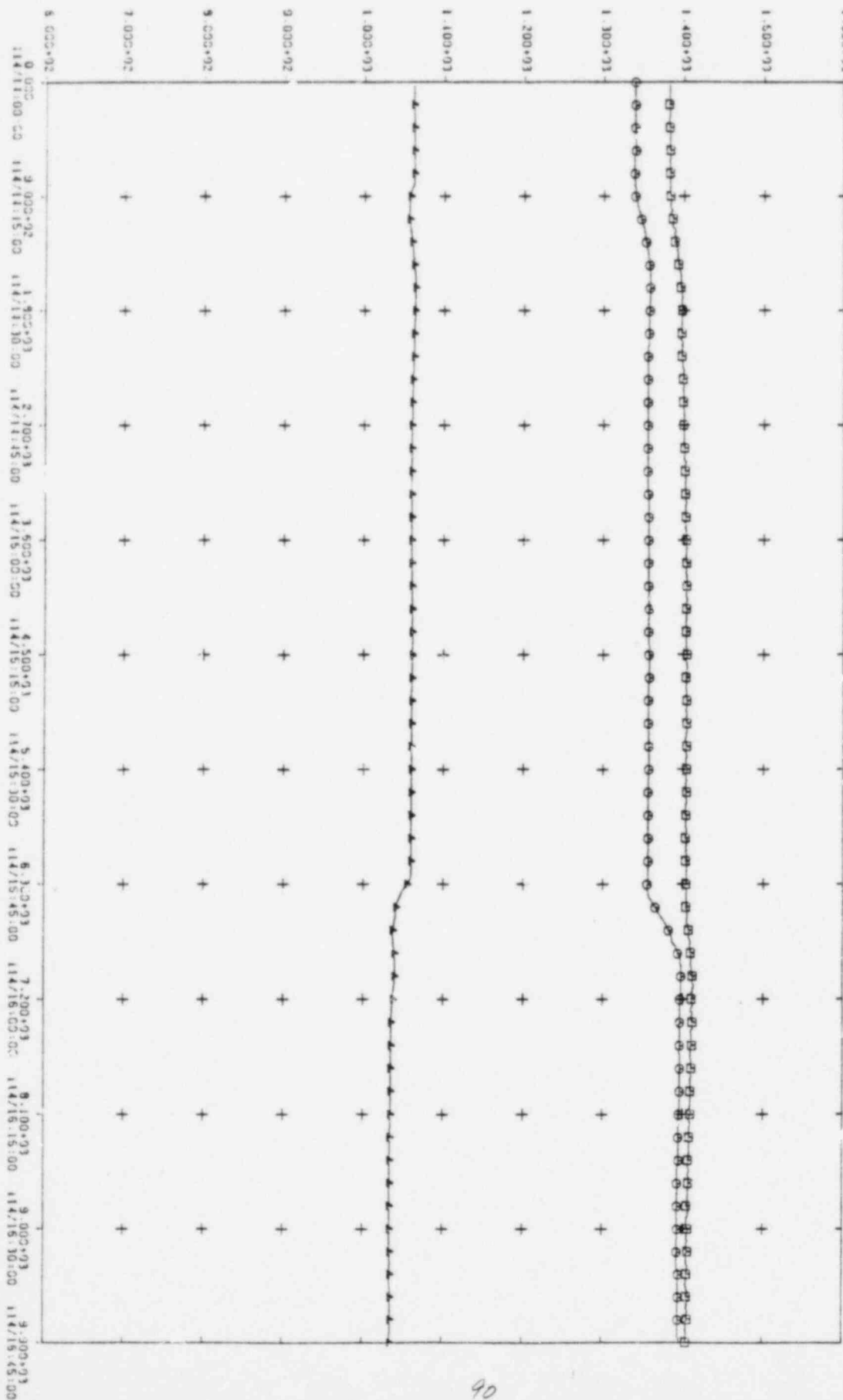
(DEC F)
(DEC F)
(DEC F)
(DEC F)

(+1.700+91/ 1.000+92)
(+1.700+91/ 1.000+92)
(+1.000+91/ 1.000+92)
(+7.000+92/ 1.000+92)

210 FX TC 10
220 FX TC 20
230 FX TC 30
240 FX TC 40

CFDS - 4/24/81 - 1400 TO 1645

FRAME 7



STRING 1 7

TRAVERSING TC
TRAVERSING TC
TRAVERSING TC

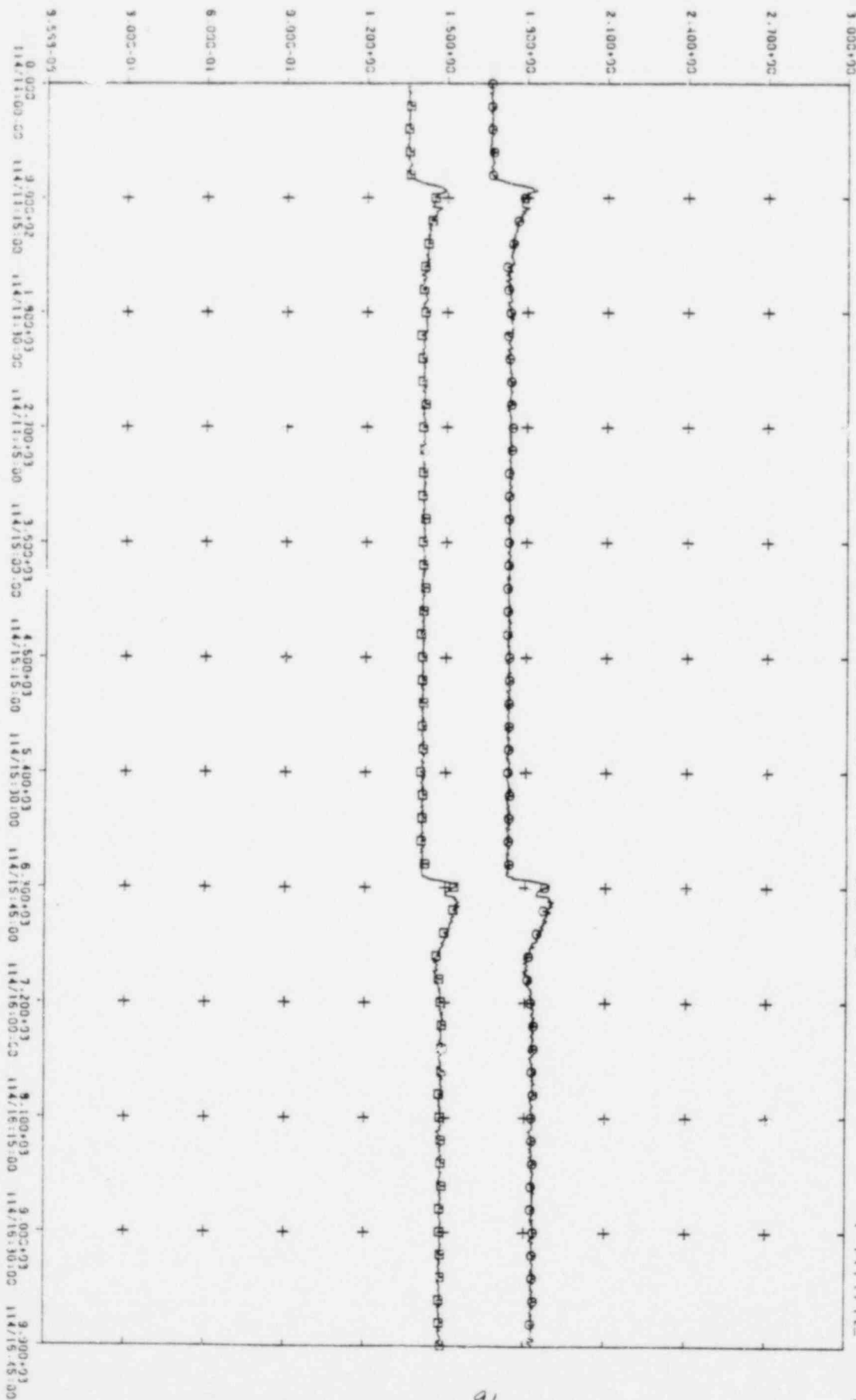
1000 F1
1000 F1
1000 F1

1.000+001
1.000+001
1.000+001

0.000
0.000
0.000

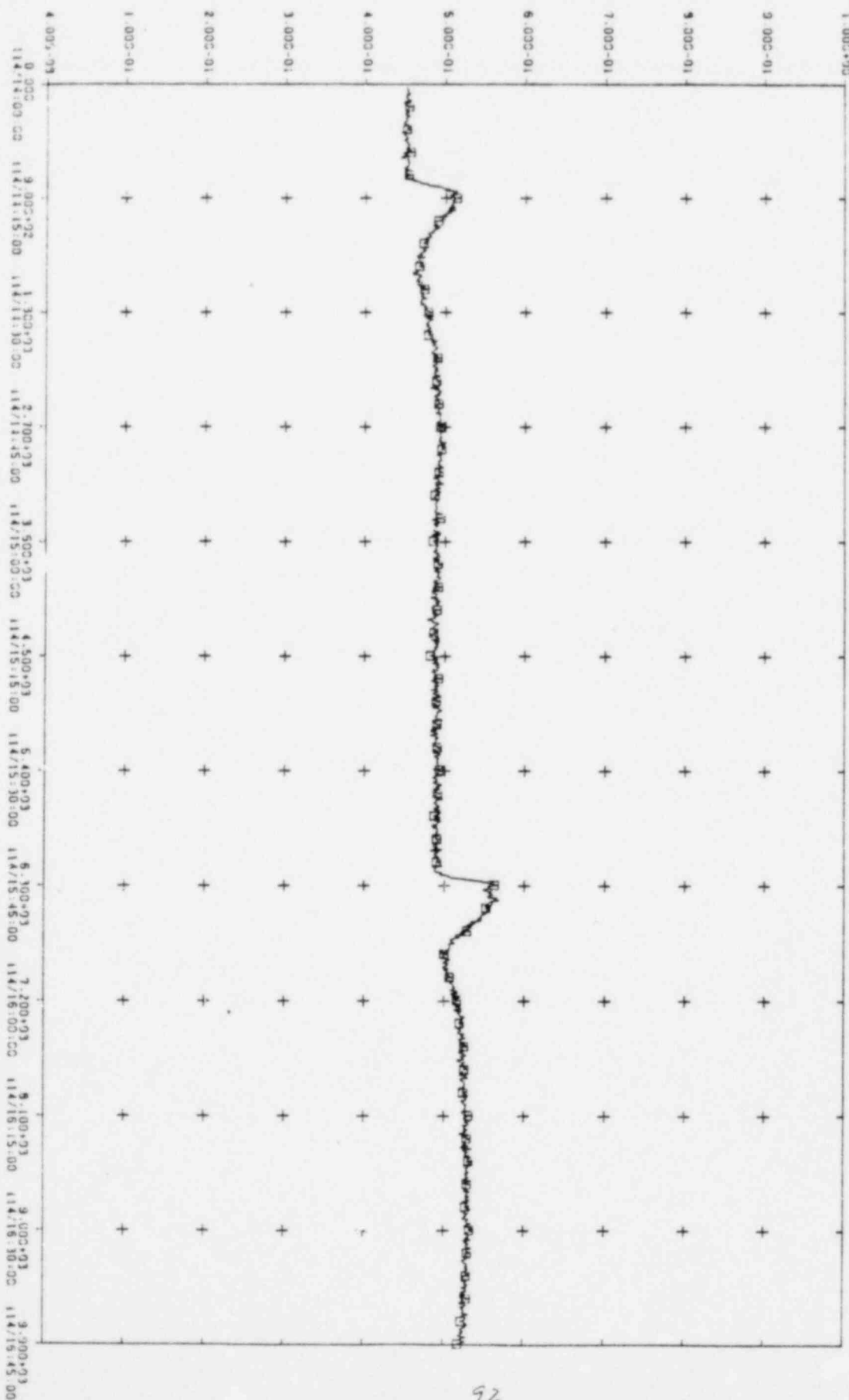
CFDS - 4/24/81 - 1400 TO 1645

FRAME 7



CFDS - 4/24/81 - 1400 TO 1645

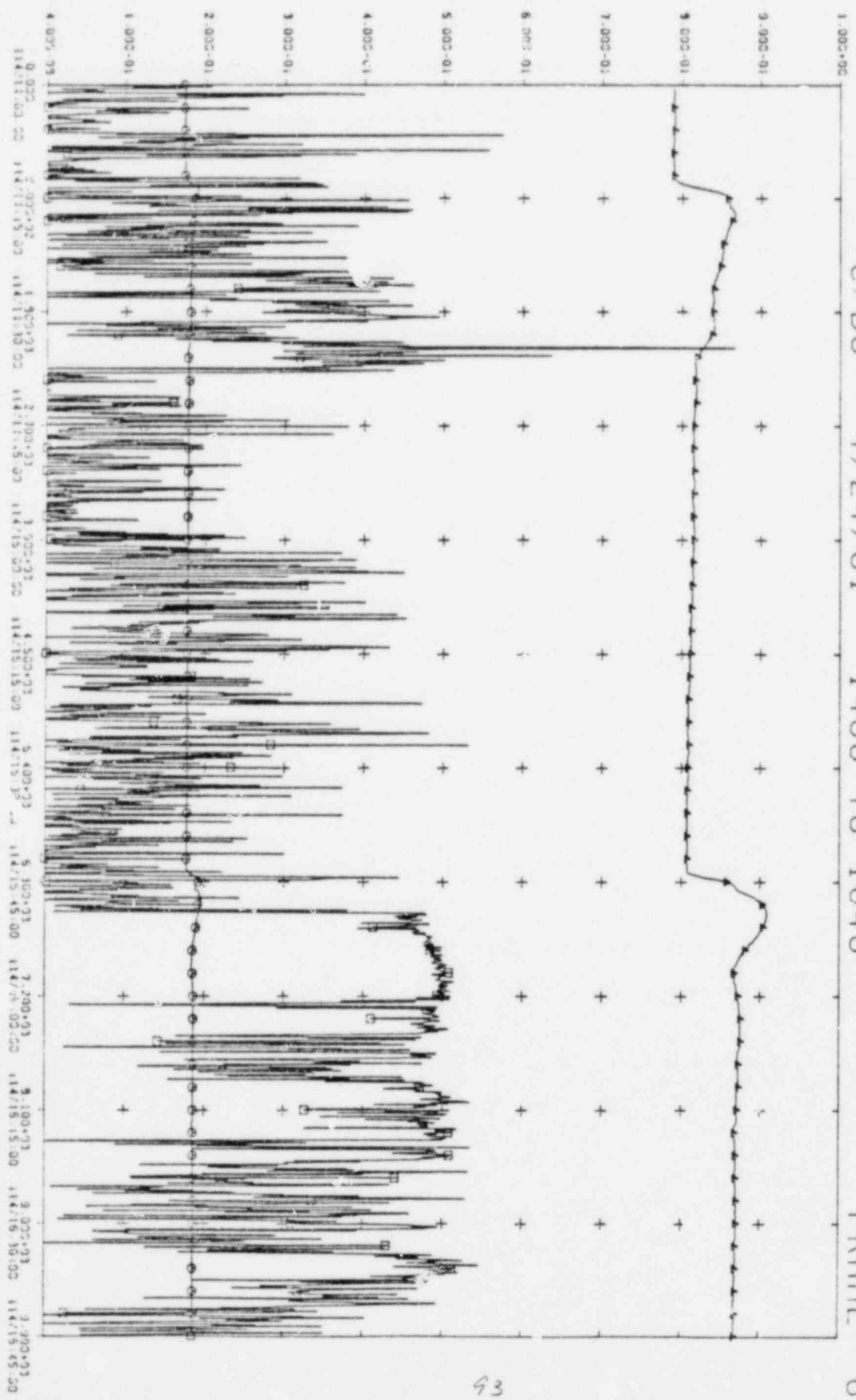
FRAME 10



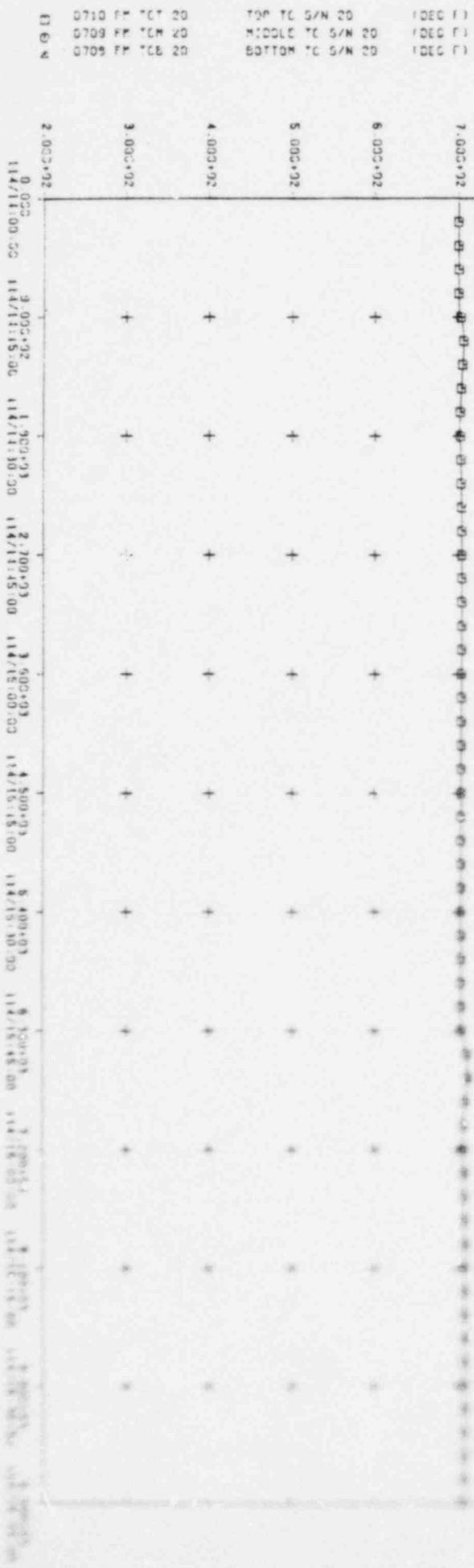
0714 FF CPL 20 FISSION COUPLE 5/N 20 (MILLIVOLT)
 0713 FF FC 20 FISSION CHAMBER 5/N 20 (MILLIVOLT)
 0711 FF ND 20 SPND 5/N 20 (MICROAMP) 1 * 0.000 / 3.000*100

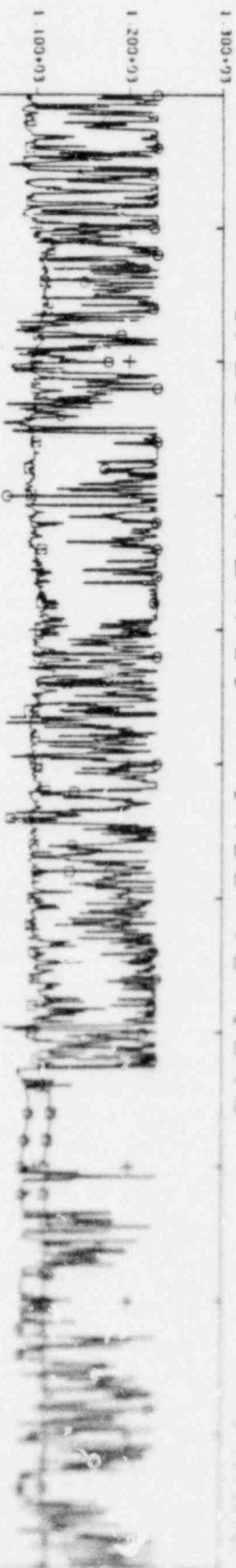
CFDS - 4/24/81 - 1400 TO 1645

FRAME



CFDS - 4/24/81 - 1400 TO 1645





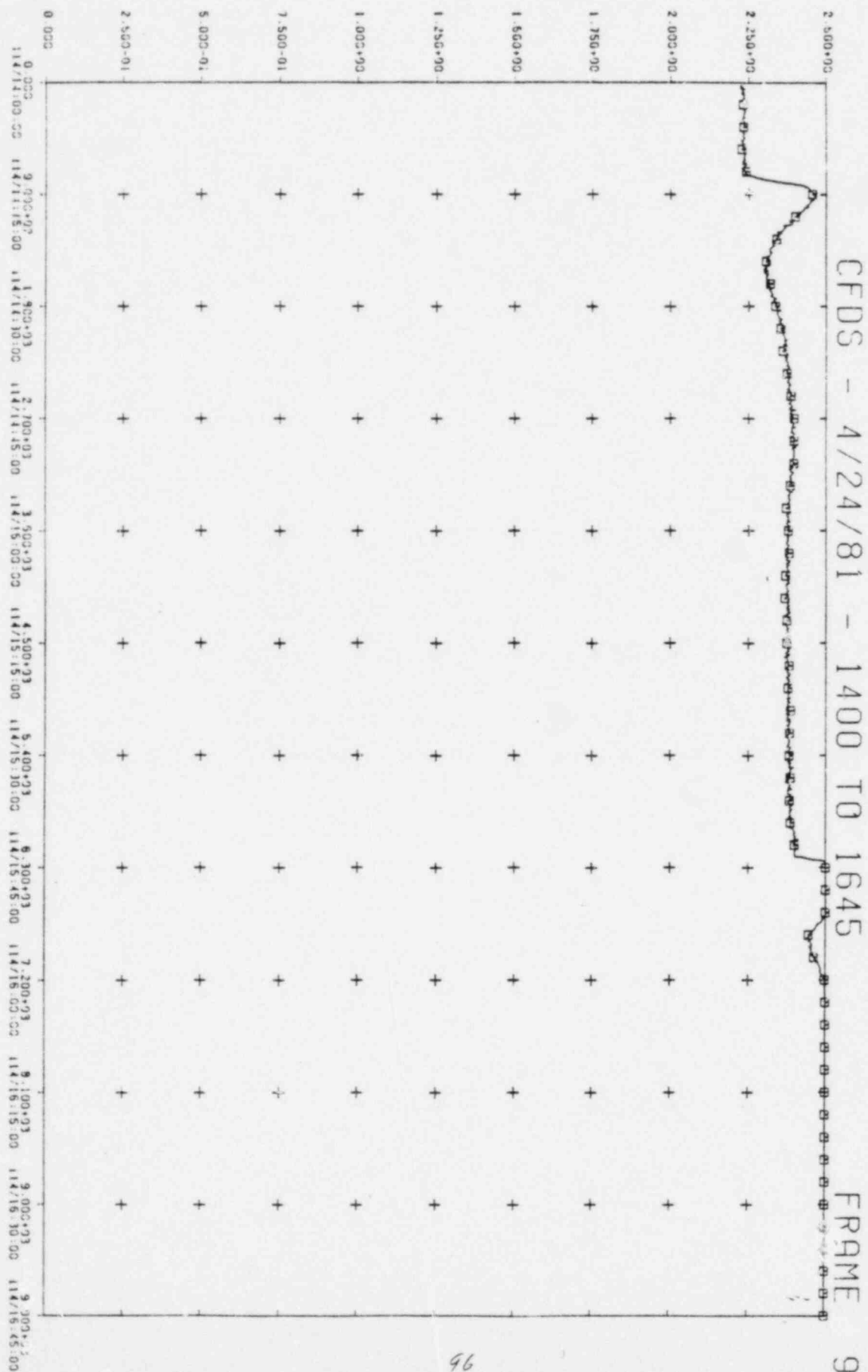
1000 F)
1000 F)

U TC 5/N 20
W TC 5/N 20

1211 FF TCU 20
1213 FF TCU 20

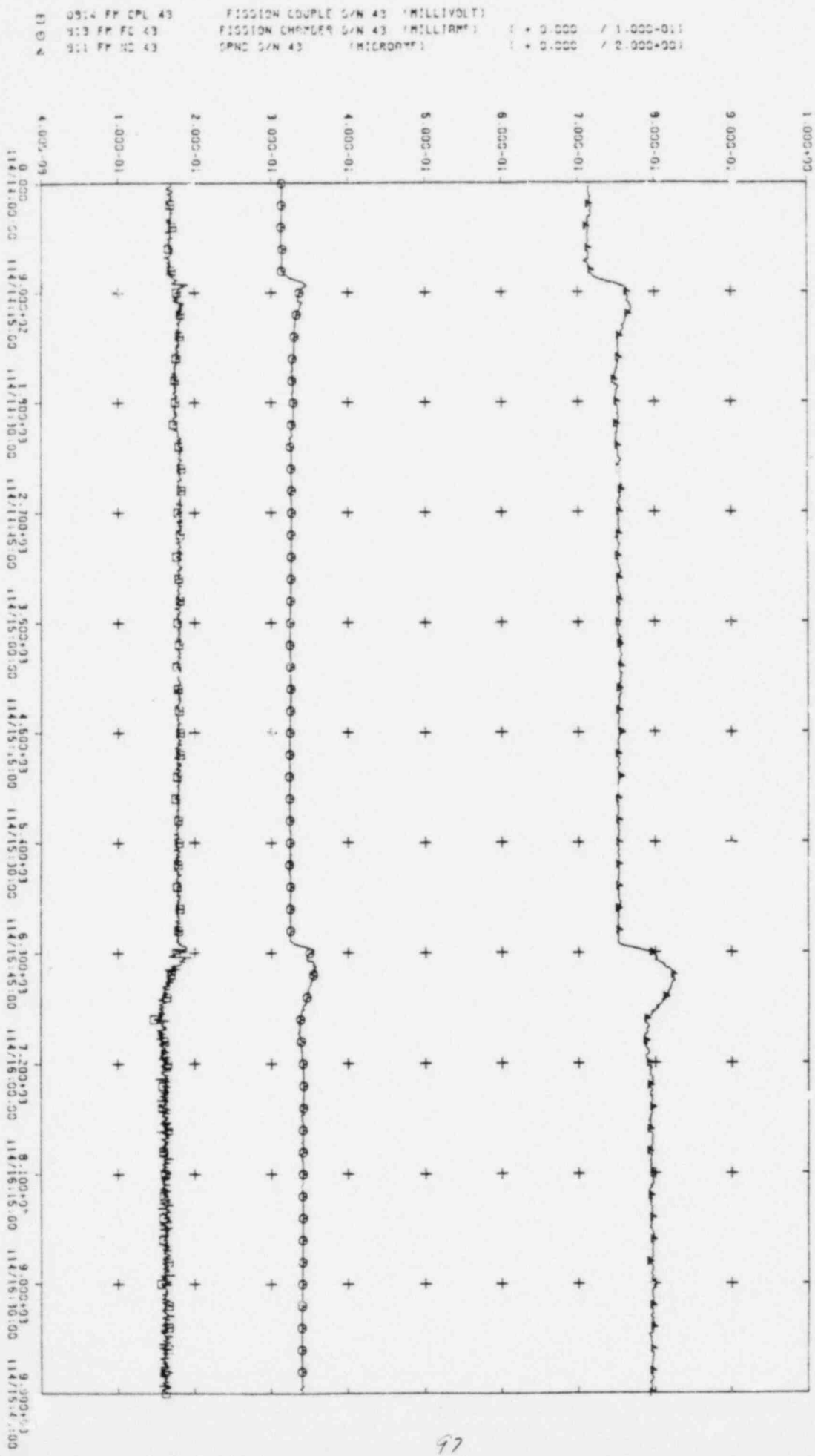
676

0.050	9.635+0	1.905+0	3.555+0	4.800+0	5.400+0	6.100+0	7.100+0	8.100+0	9.000+0	9.250+0
114/13:00:55	114/14:15:00	114/14:30:00	114/14:45:00	114/15:00:00	114/15:15:00	114/15:45:00	114/16:00:00	114/16:15:00	114/16:30:00	114/16:45:00



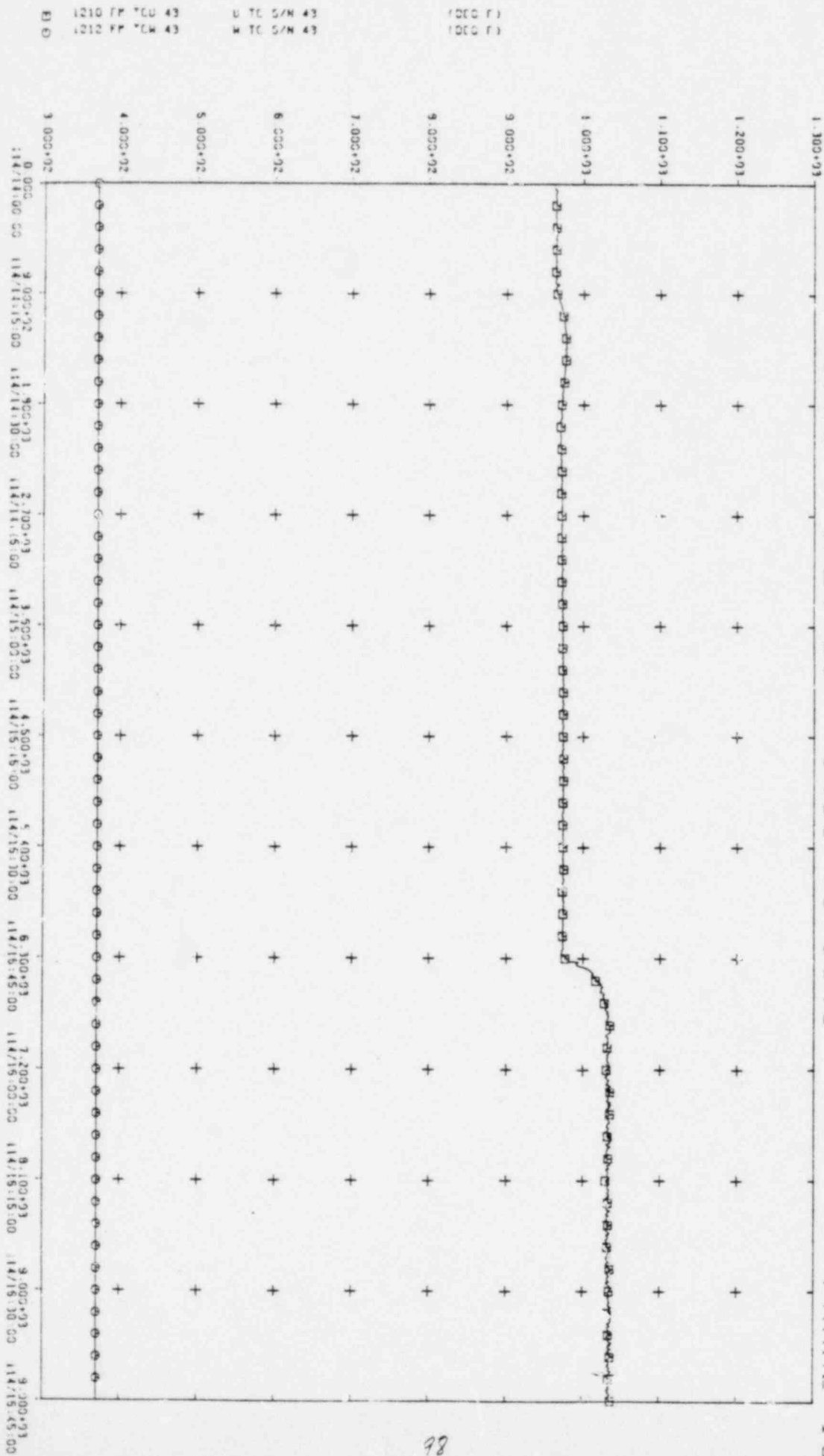
CFDS - 4/24/81 - 1400 TO 1645

FRAME 8



CFDS - 4/24/81 1400 TO 1645

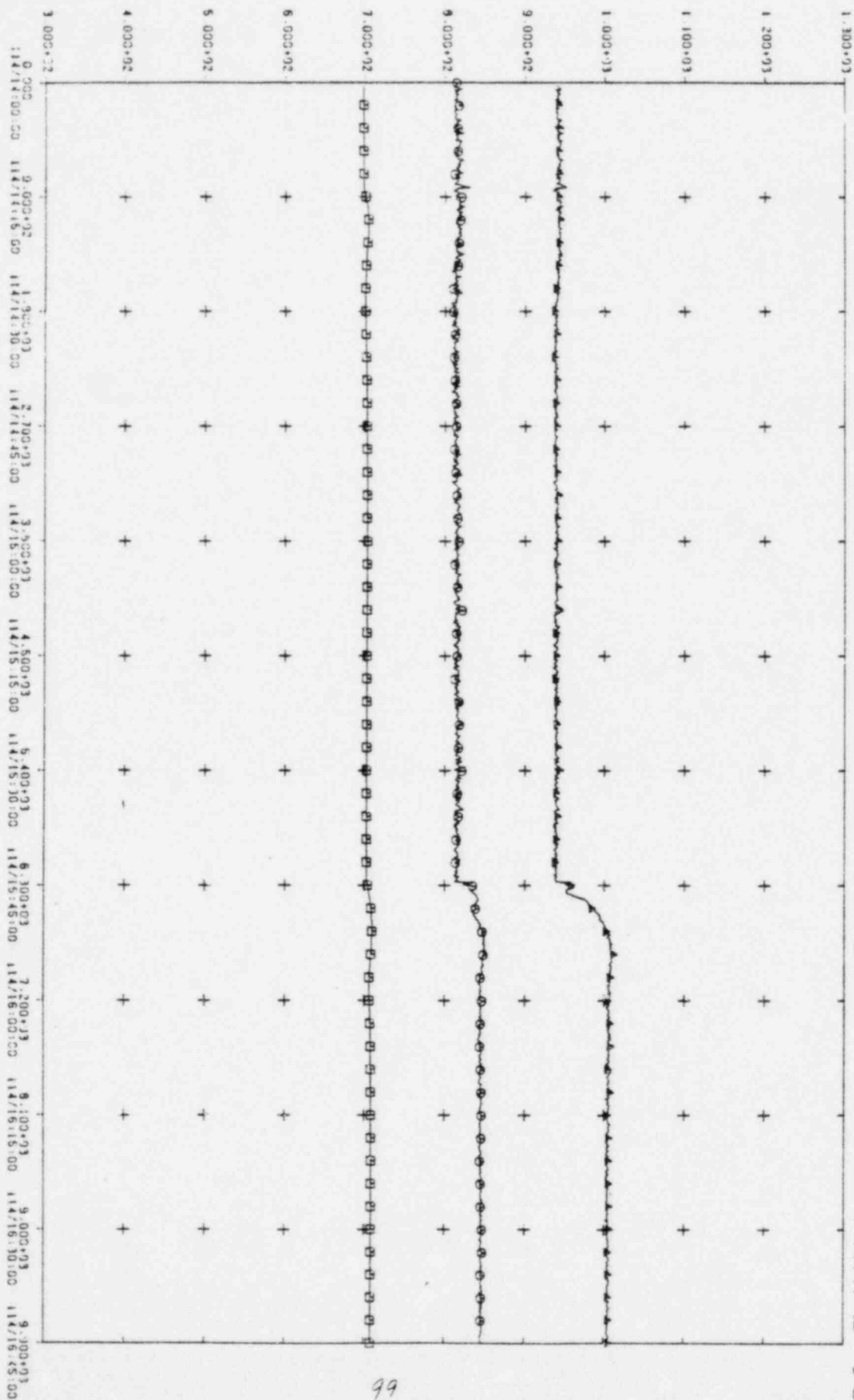
FRAME 13

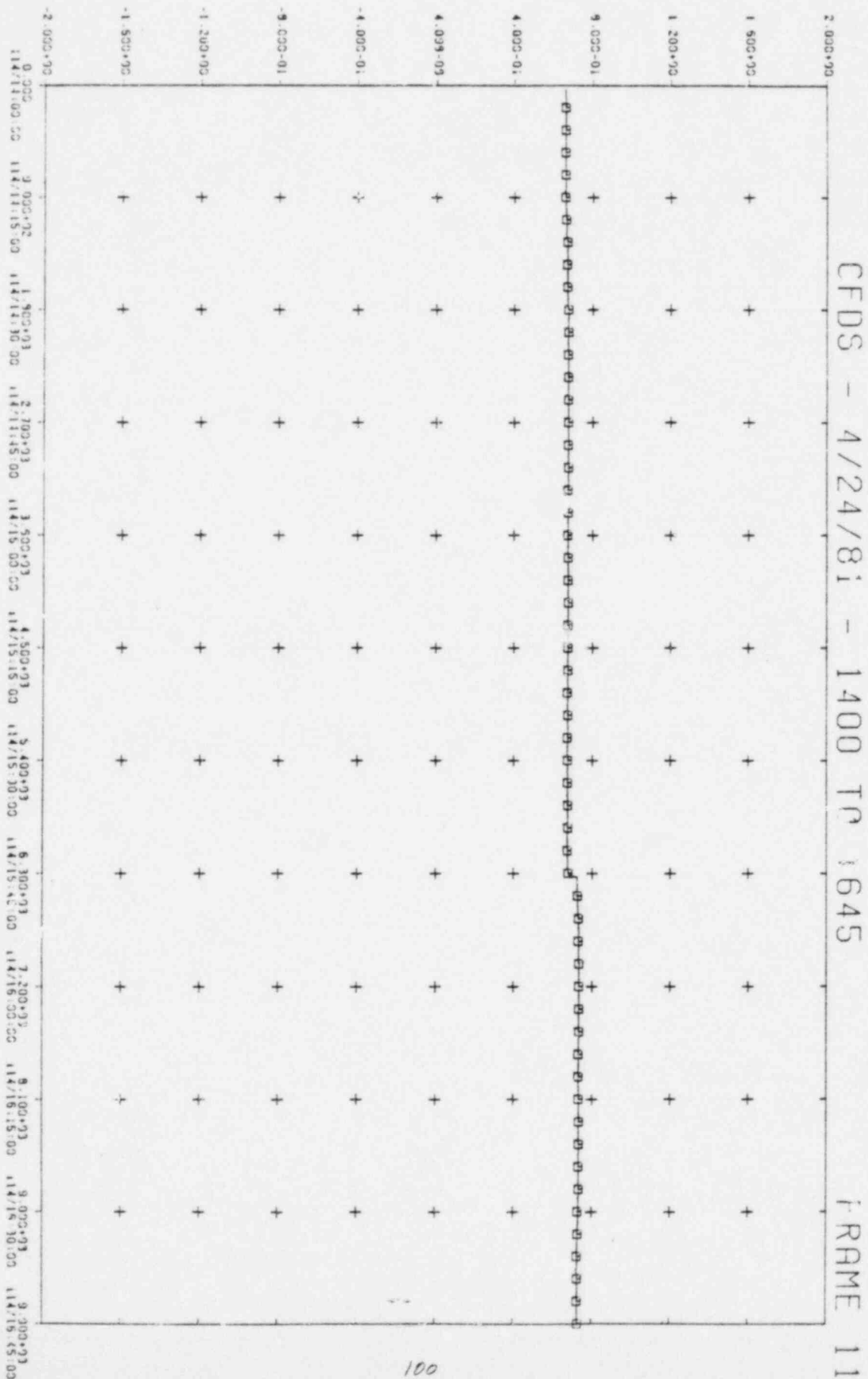


CFDS - 4/24/81 - 1400 TO 1645

FRAME 10

0910 PM TCT 43 TOP TC S/N 43 1000 F1
 0920 PM TCM 43 MIDDLE TC S/N 43 1000 F1
 0930 PM TCB 43 BOTTOM TC S/N 43 1000 F1

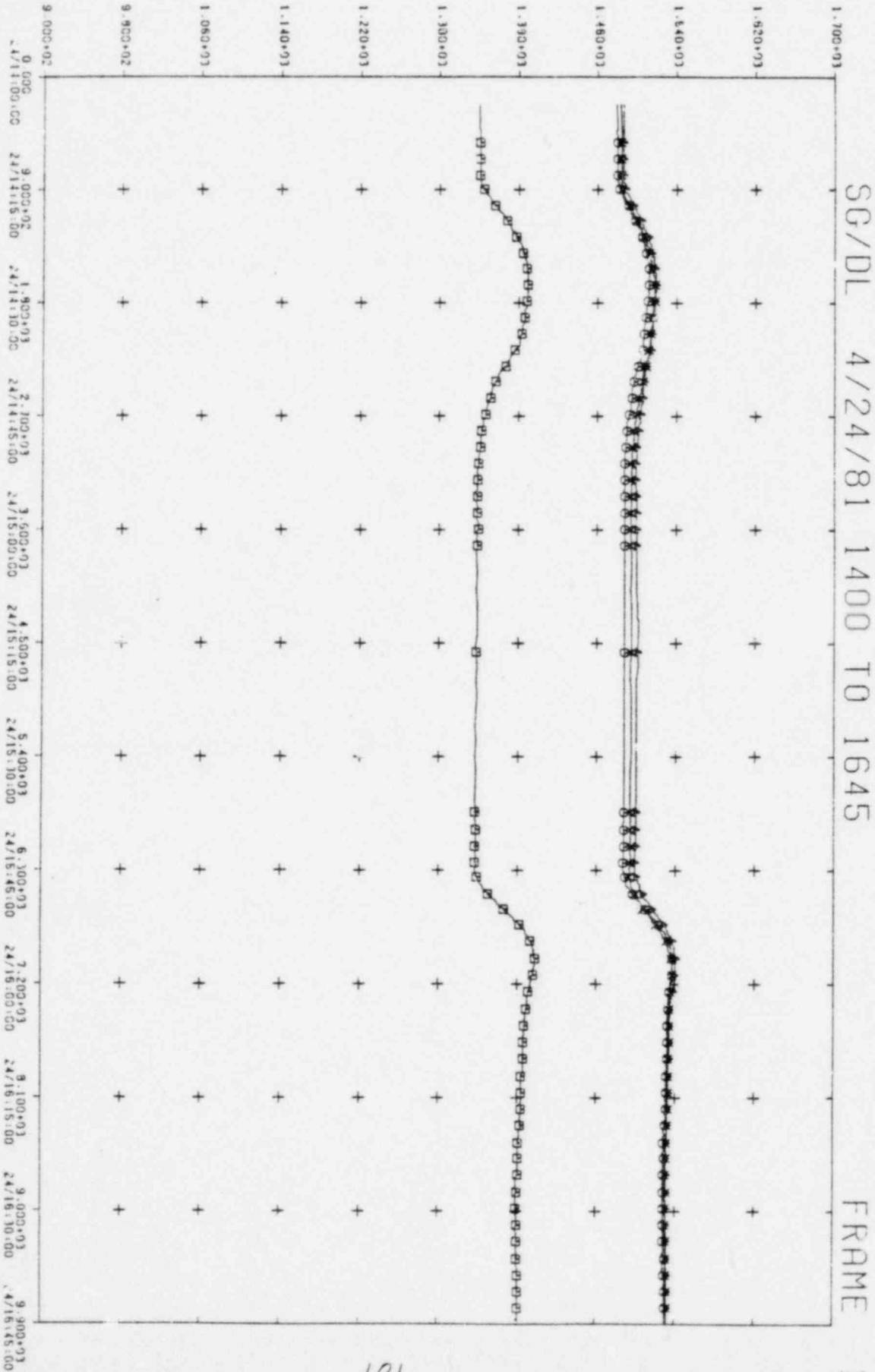




M0 04

REGIONS 1-4 EXIT GAS TEMPERATURES

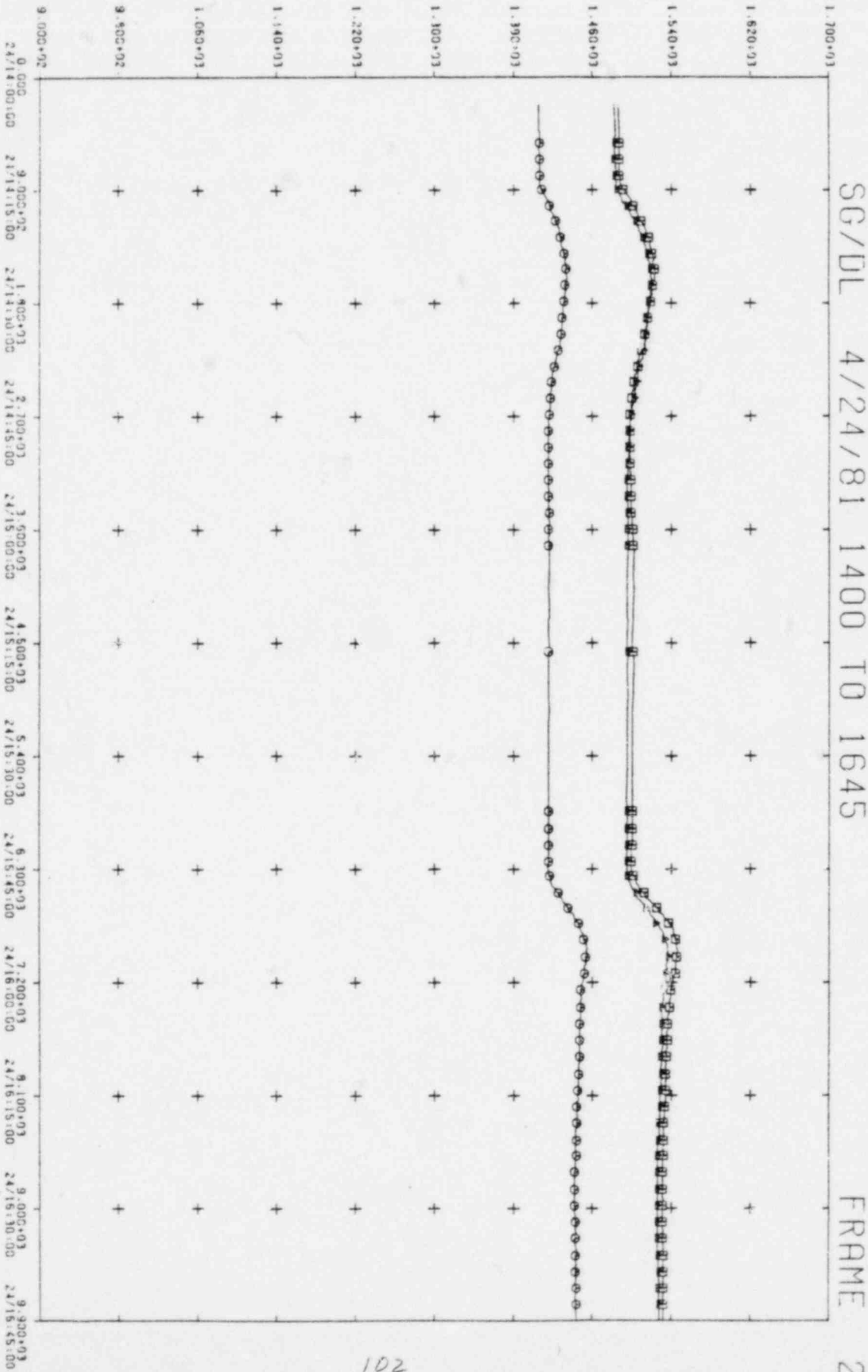
075 DL	TE11101-1	RGW	1	CORE	OUT GAS TEMP	DEC-F
076 DL	TE11102-1	RGW	2	CORE	OUT GAS TEMP	DEC-F
077 DL	TE11103-1	RGW	3	CORE	OUT GAS TEMP	DEC-F
079 DL	TE11104-1	RGW	4	CORE	OUT GAS TEMP	DEC-F



MO 04

REGIONS 5-7 EXIT GAS TEMPERATURES

072 DL TE11105-1 RGN 5 CORE OUT GAS TEMP DEG-F
 090 DL TE11106-1 RGN 6 CORE OUT GAS TEMP DEG-F
 091 DL TE11107-1 RGN 7 CORE OUT GAS TEMP DEG-F



MO 04

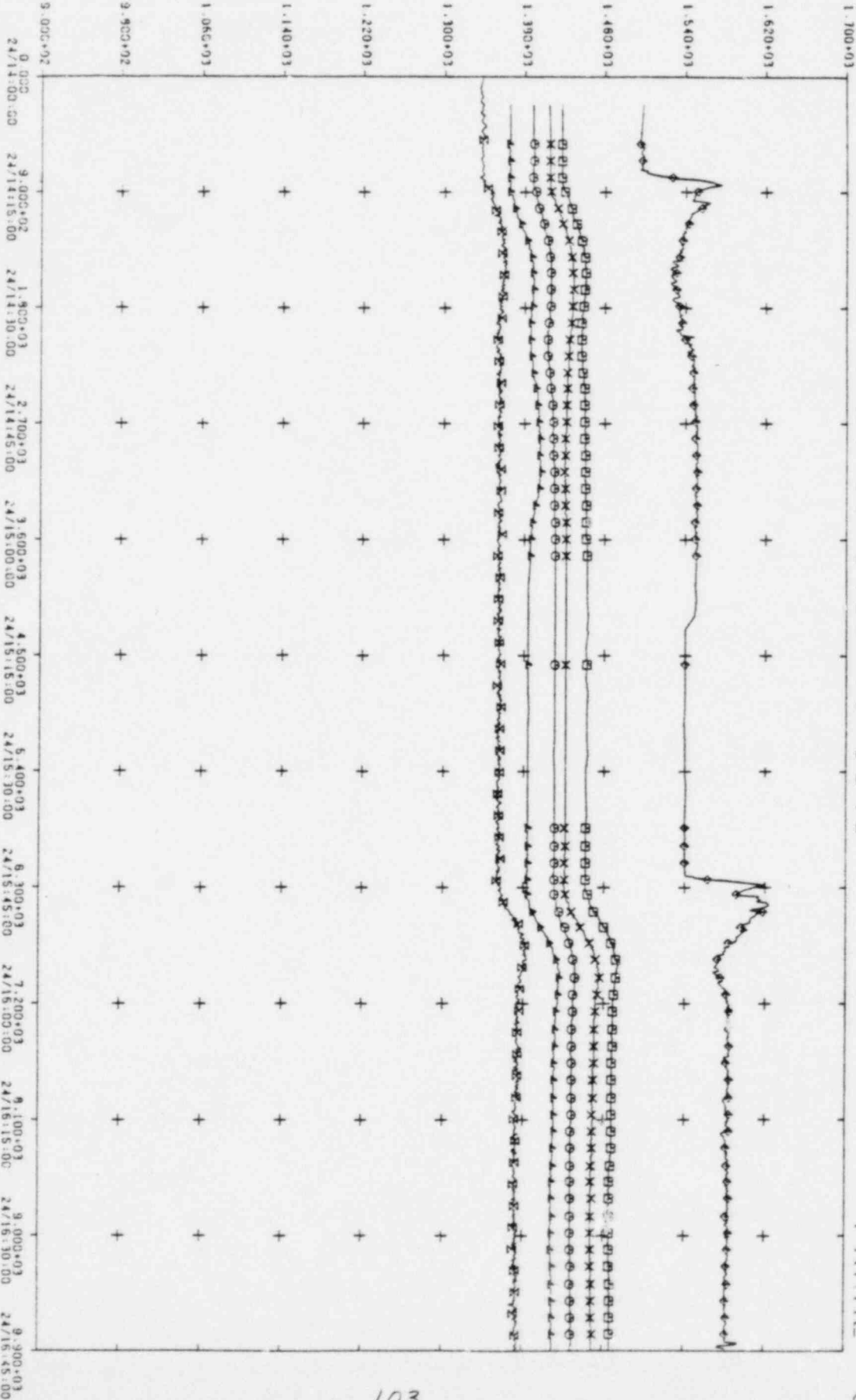
SG/DL 4/24/81 1400 TO 1645

FRAME

3

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-1-1

102 DL	TE11129-1	RON 29 CORE	OUT GAS TEMP	DEG-F
103 DL	TE11123-1	RON 29 CORE	OUT GAS TEMP	DEG-F
095 DL	TE11114-1	RON 14 CORE	OUT GAS TEMP	DEG-F
087 DL	TE11113-1	RON 13 CORE	OUT GAS TEMP	DEG-F
009 DL	NIM1135	LINEAR PWR	CHRN 9	1 PERCENT
433 CC	B-1-1 AVE HE INLT TEMP	CALC		+ 7.000-01/ 1.000-011



MO 04

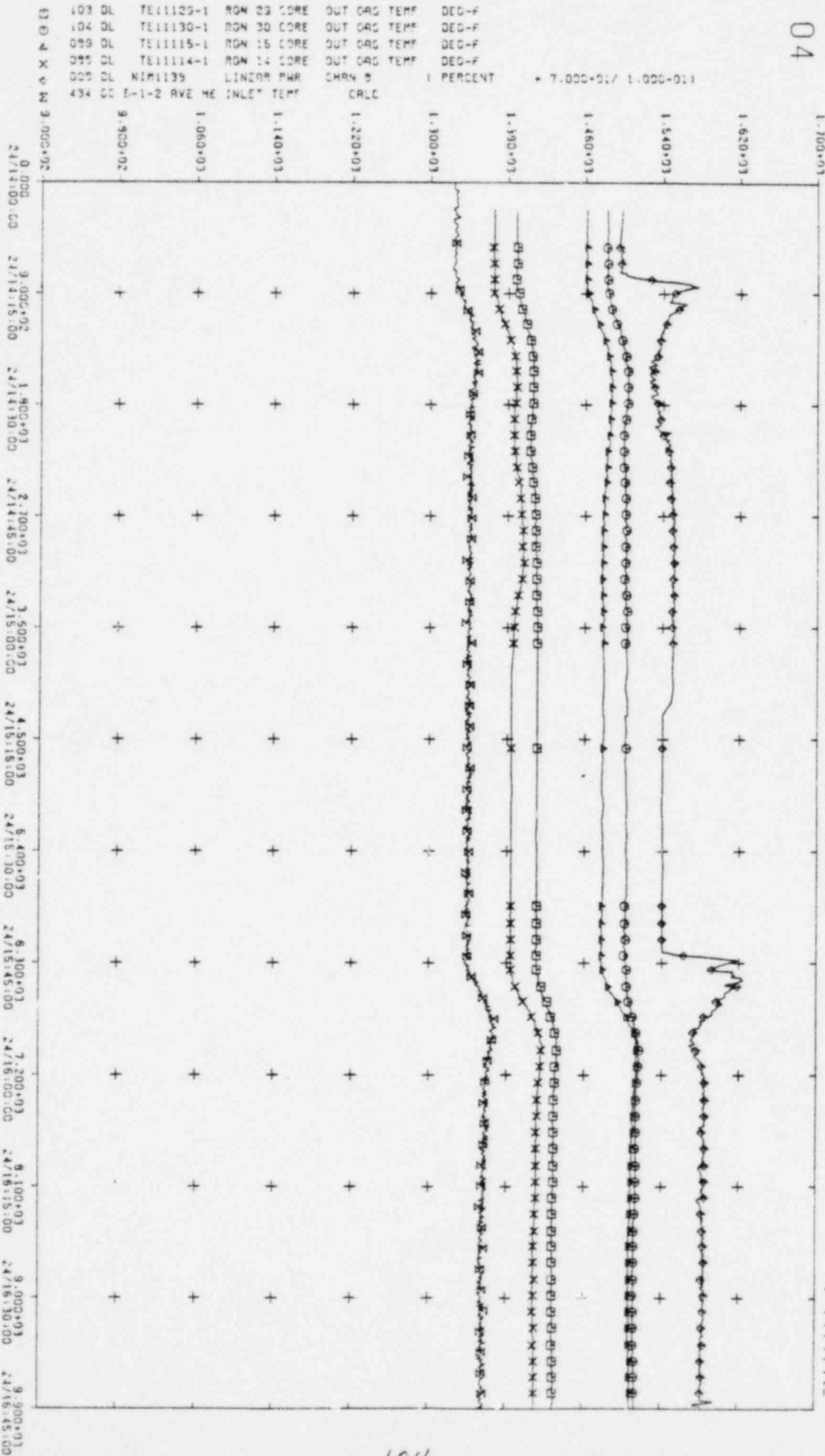
SG/DL 4/24/81 1400 TO 1645

FRAME

4

ORG OUTLET, LINEAR PWR, AVE HE INLT NEAR S-1-2

103 DL TEL1129-1 ROM 29 CORE OUT ORG TEMP DEG-F
 104 DL TEL1130-1 ROM 30 CORE OUT ORG TEMP DEG-F
 099 DL TEL1115-1 ROM 15 CORE OUT ORG TEMP DEG-F
 095 DL TEL1114-1 ROM 14 CORE OUT ORG TEMP DEG-F
 000 DL NIM1139 LINEAR PWR CHAN 8 1 PERCENT * 7.000-01/ 1.000-01
 434 CC S-1-2 AVE HE INLT TEMP CALC



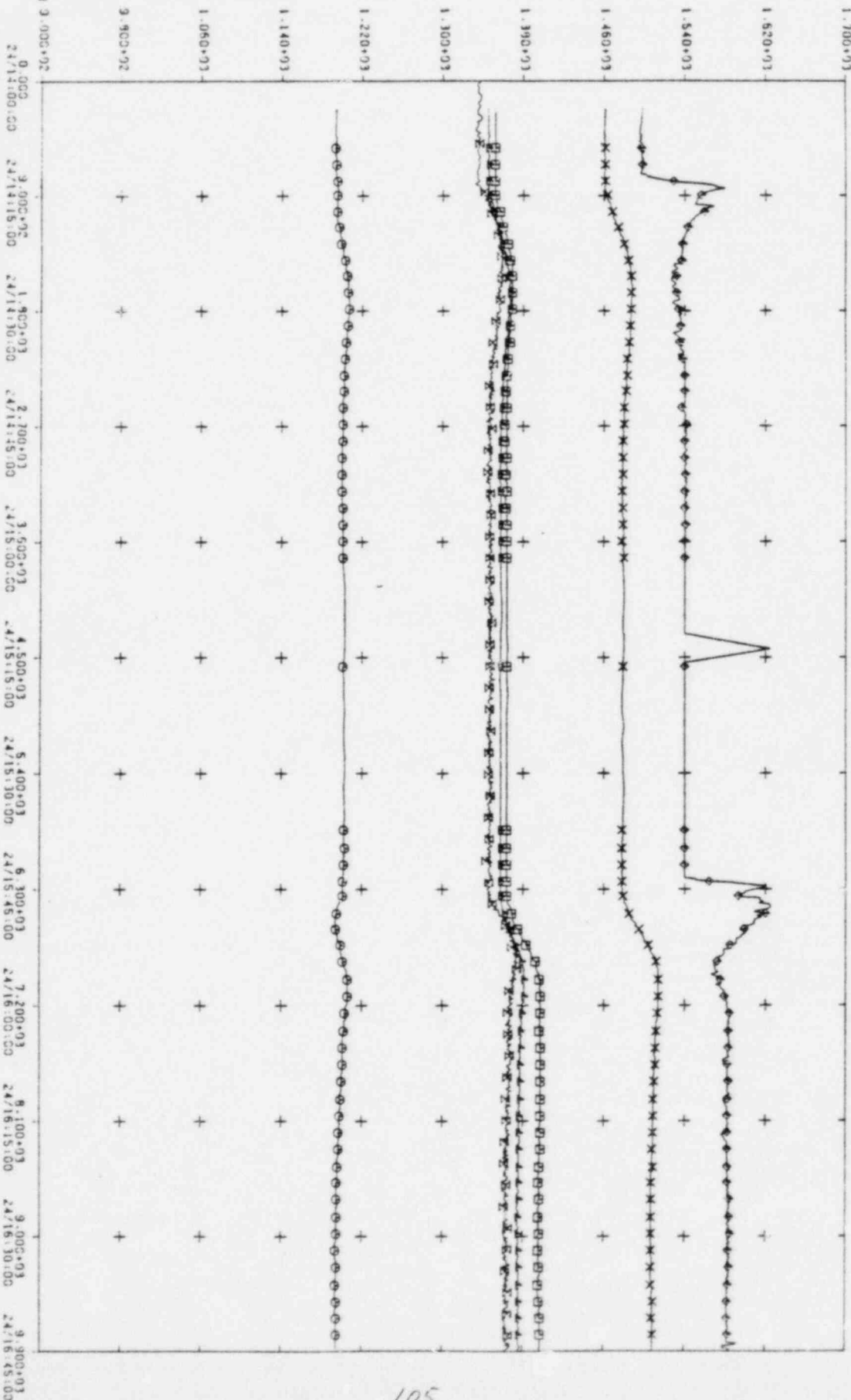
MO 04

SG/DL 4/24/81 1400 TO 1645

FRAME 5

GAS OUTLET, LINEAR PWR. AVE HE INLT NEAR B-1-3

105 DL	TE11131-1	RON 31 CORE	OUT GAS TEMP	DEG-F
106 DL	TE11132-1	RON 32 CORE	OUT GAS TEMP	DEG-F
090 DL	TE11115-1	RON 15 CORE	OUT GAS TEMP	DEG-F
099 DL	TE11115-1	RON 15 CORE	OUT GAS TEMP	DEG-F
004 DL	NIM1134-4	LINEAR PWR	CHAN 4	(PERCENT + 7.000+01/ 1.000+01)
435 SC	B-1-3 AVE HE	INLET TEMP	CALC	



MO 04

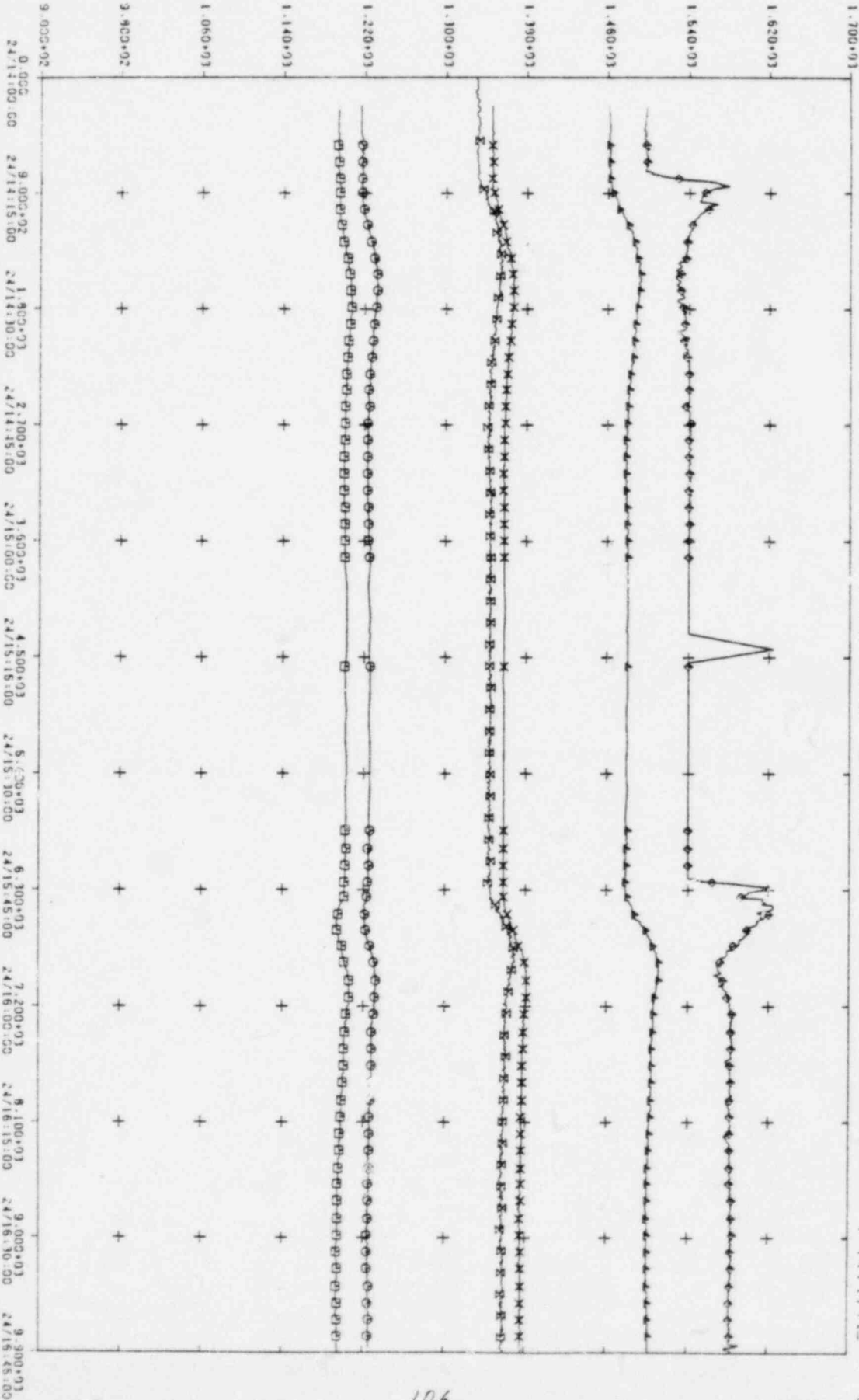
SC/DL 4/24/81 1400 TO 1645

FRAME

6

QAG OUTLET, LINEAR PWR. AVE HE INLT NEAR 5-1-4

105 DL TE11132-1 RDN 32 CORE OUT QAG TEMP DEG-F
 107 DL TE11133-1 RDN 33 CORE OUT QAG TEMP DEG-F
 091 DL TE11117-1 RDN 17 CORE OUT QAG TEMP DEG-F
 090 DL TE11116-1 RDN 16 CORE OUT QAG TEMP DEG-F
 004 DL NIM1134-4 LINEAR PWR CHAN 4 PERCENT * 7.000+01/ 1.000+01
 435 GC 5-1-4 AVE HE INLET TEMP CALC



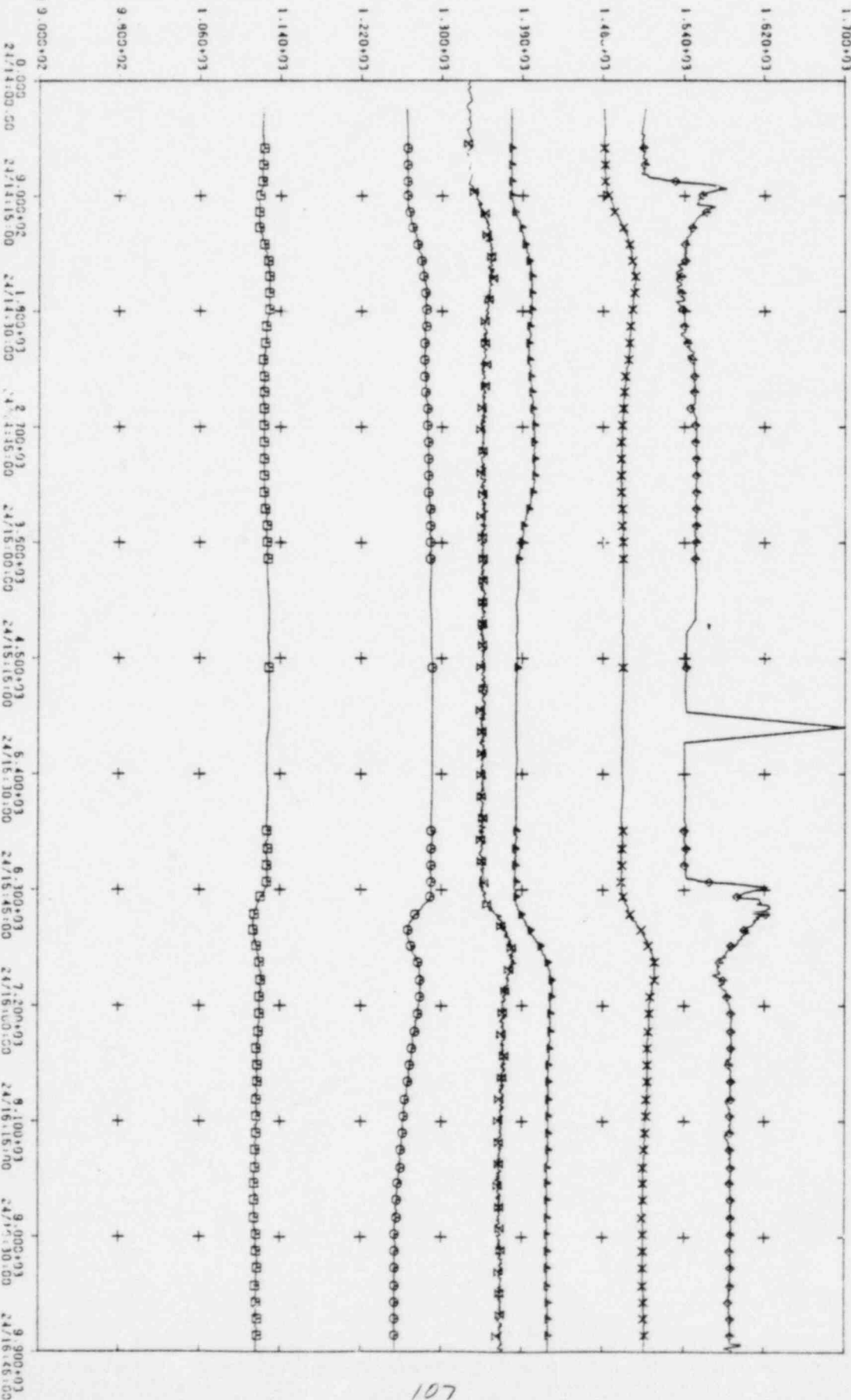
MO 04

SG/DL 4/24/81 1400 TO 1645

FRAME 7

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR S-1-5

109 DL	TE11134-1	RON 34 CORE	OUT GAS TEMP	DEC-F
109 DL	TE11135-1	RON 35 CORE	OUT GAS TEMP	DEC-F
092 DL	TE11119-1	RON 18 CORE	OUT GAS TEMP	DEC-F
091 DL	TE11117-1	RON 17 CORE	OUT GAS TEMP	DEC-F
00A CL	NIM1135	LINEAR PWR	CHAN A	PERCENT
437 CO	S-1-5 AVE HE	INLET TEMP	CALC	



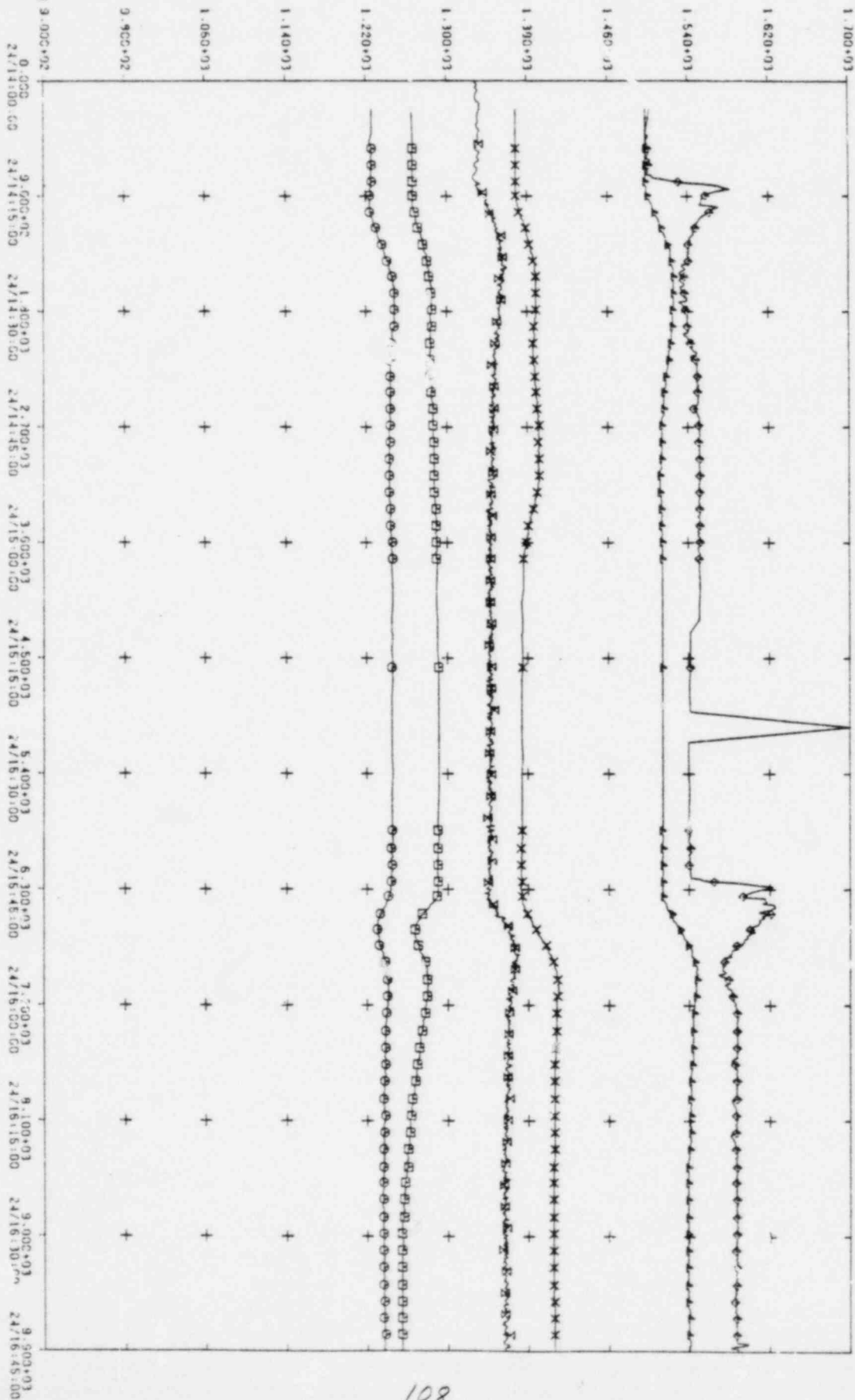
MO 04

SG/DL 4/24/81 1400 TO 1645

FRAME 8

GAS OUTLET, LINEAR PWR, AVE HE INLET NEAR 5-1-6

109 DL TELL1135-1 RON 35 CORE OUT GAS TEMP DEG-F
 110 DL TELL1135-1 RON 35 CORE OUT GAS TEMP DEG-F
 093 DL TELL1135-1 RON 19 CORE OUT GAS TEMP DEG-F
 092 DL TELL1135-1 RON 19 CORE OUT GAS TEMP DEG-F
 004 DL NIM1135 LINEAR PWR CHAN A PERCENT + 7.000+01/ 1.000+01
 439 SC 5-1-6 AVE HE INLET TEMP CALC



MO 04

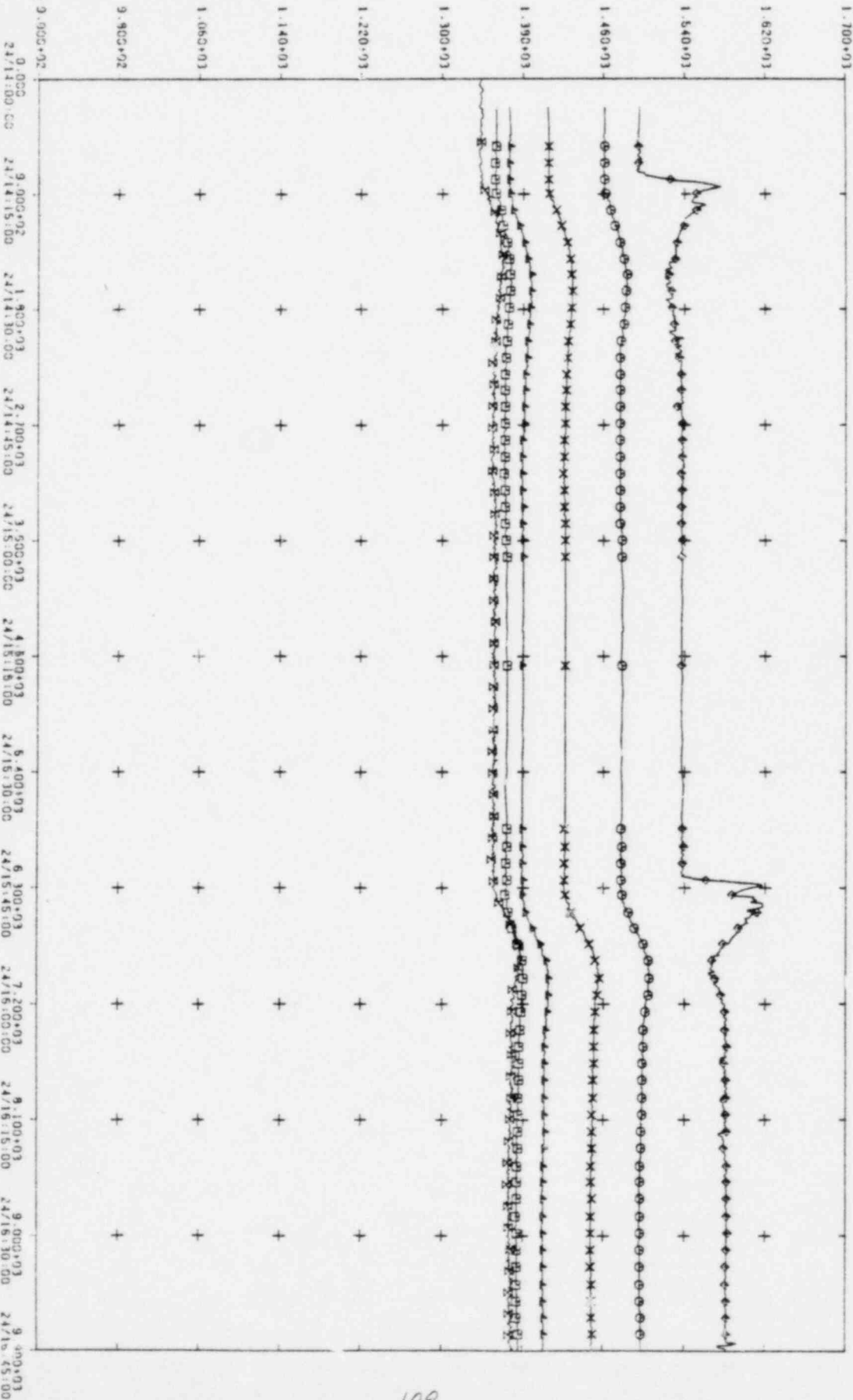
SG/DL 4/24/81 1400 TO 1645

FRAME

9

GAS OUTLET, LINEAR PWR. AVE HE INLT NCR 5-2-1

100 DL TE11125-1 RON 26 CORE OUT GAS TEMP DEG-F
 101 DL TE11127-1 RON 27 CORE OUT GAS TEMP DEG-F
 096 DL TE11112-1 RON 12 CORE OUT GAS TEMP DEG-F
 097 DL TE11113-1 RON 13 CORE OUT GAS TEMP DEG-F
 003 DL NIM1133-3 LINEAR PWR CHAN 3 1 PERCENT * 7.000+01/ 1.000+01
 433 CC 5-2-1 AVE HE INLET TEMP CALC



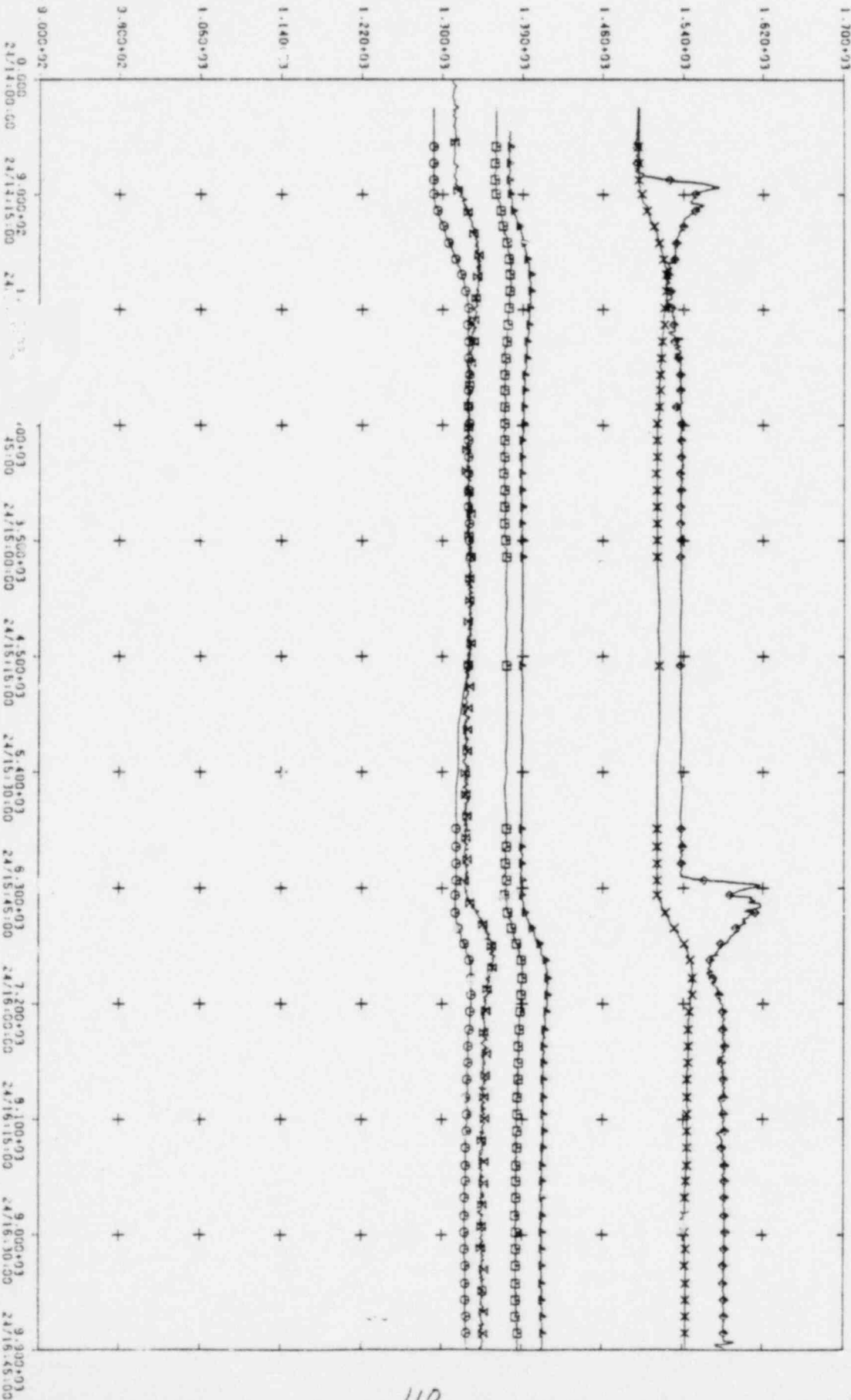
MO 04

SG/DL 4/24/81 1400 TO 1645

FRAME 10

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR 6-2-2

100 DL	TE11125-1	ROW 25 CORE	OUT GAS TEMP	DEG-F
099 DL	TE11125-1	ROW 25 CORE	OUT GAS TEMP	DEG-F
098 DL	TE11112-1	ROW 12 CORE	OUT GAS TEMP	DEG-F
095 DL	TE11111-1	ROW 11 CORE	OUT GAS TEMP	DEG-F
002 DL	NLM1133-3	LINEAR PWR	CHAN 3	PERCENT
440 SC	6-2-2 AVE HE	INLET TEMP	CALC	



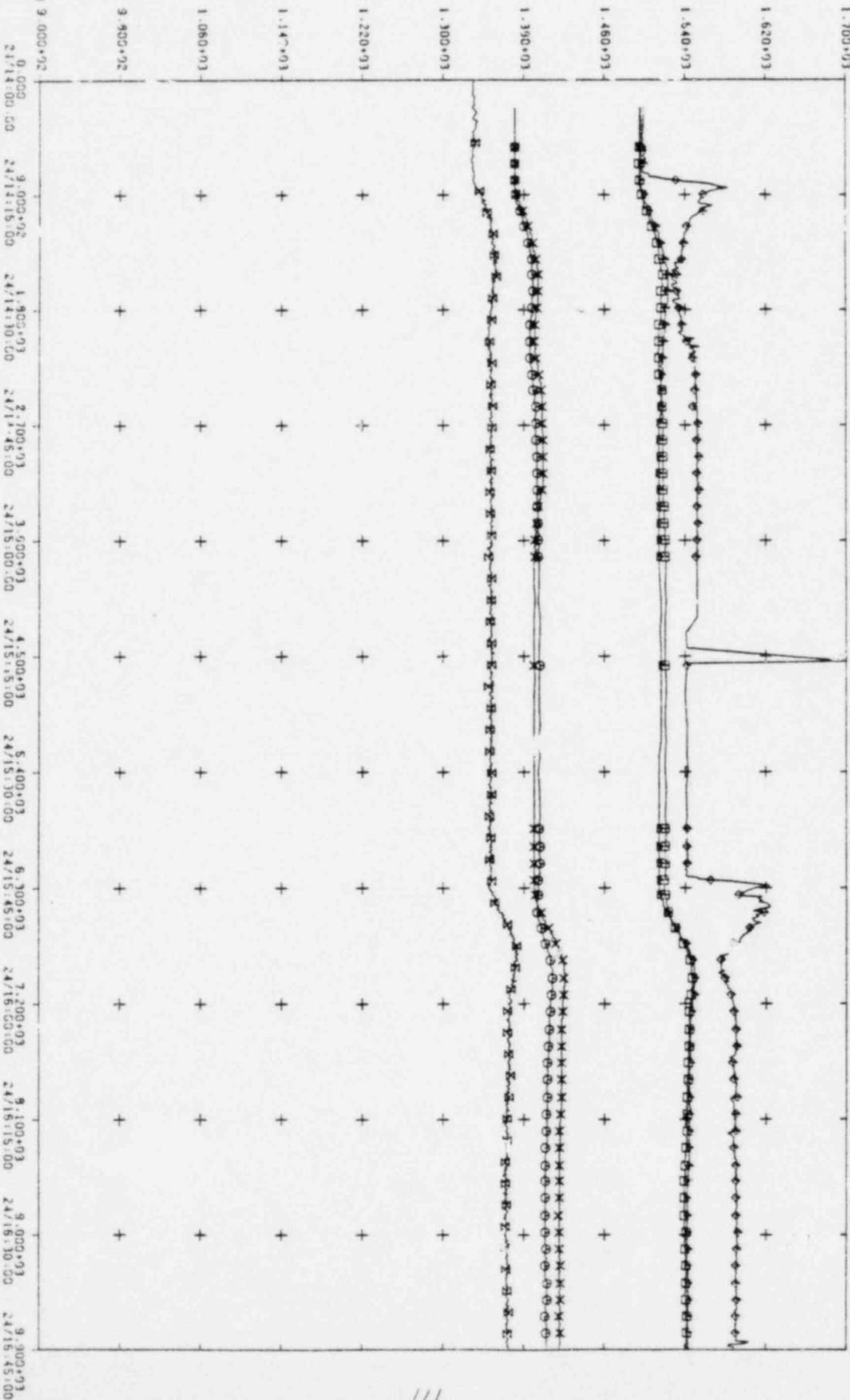
MO 04

SC/DL 4/24/81 1400 TO 1645

FRAME 11

ORG OUTLET*, LINEAR PWR, AVE HE INLT NEAR B-2-3

099 DL TE11124-1 RON 21 CORE OUT ORG TEMP DEG-F
 097 DL TE11123-1 RON 23 CORE OUT ORG TEMP DEG-F
 095 DL TE11111-1 RON 11 CORE OUT ORG TEMP DEG-F
 094 DL TE11110-1 RON 10 CORE OUT ORG TEMP DEG-F
 007 DL NIM1137 LINEAR PWR CHAN 7 (PERCENT + 7.000+01/ 1.000-01)
 441 SC B-2-3 AVE HE INLT TEMP CALC



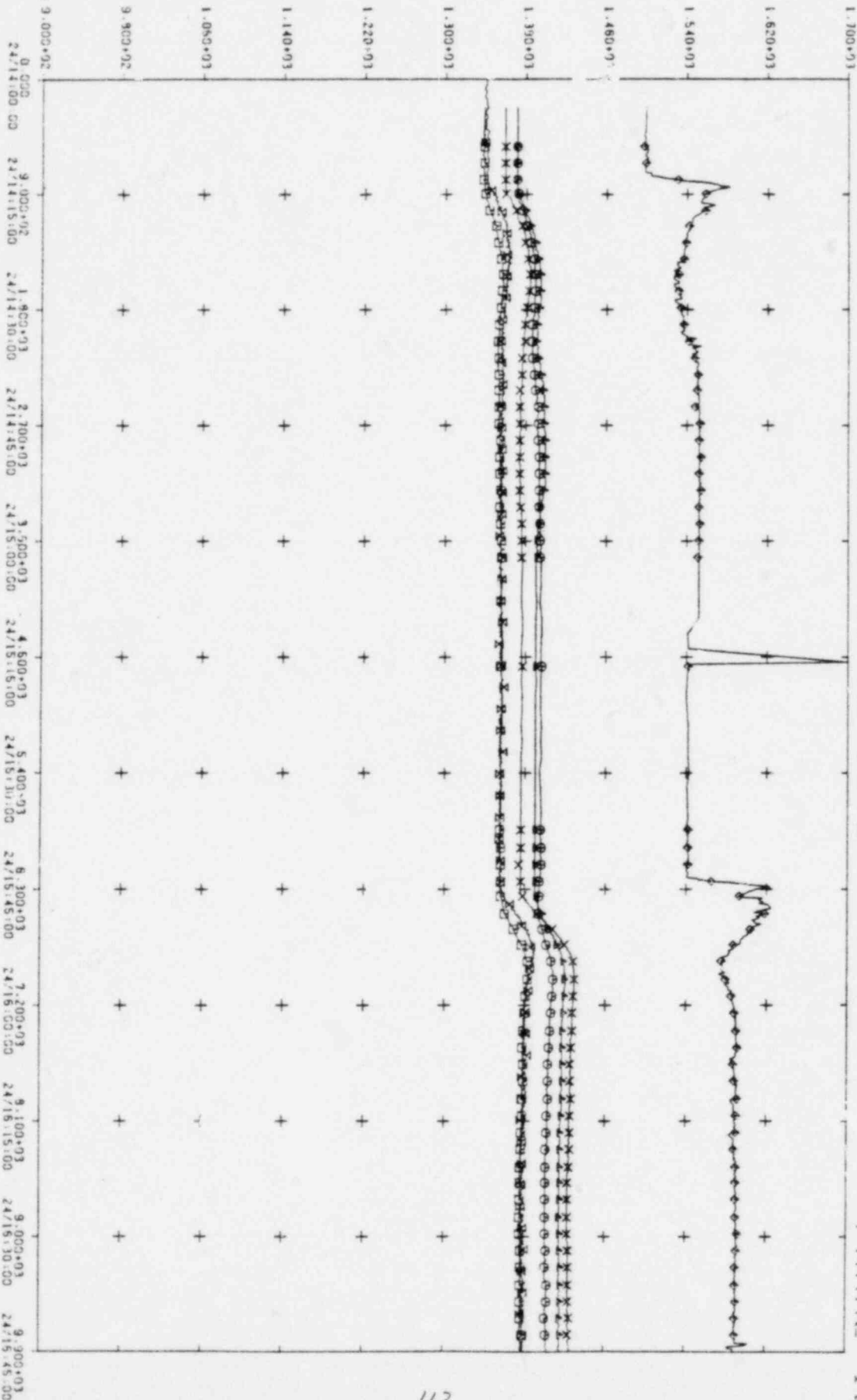
MO 04

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR B-2-4

095 DL TE11122-1 RON 22 CORE OUT GAS TEMP DEG-F
 097 DL TE11123-1 RON 23 CORE OUT GAS TEMP DEG-F
 094 DL TE11110-1 RON 11 CORE OUT GAS TEMP DEG-F
 093 DL TE11109-1 RON 9 CORE OUT GAS TEMP DEG-F
 007 DL NIM1137 LINEAR PWR CHAN 1 (PERCENT + 7.000-01 / 1.000-01)
 442 CO B-2-4 AVE HE INLT TEMP CALC

SG/DL 4/24/81 1400 TO 1645

FRAME 12



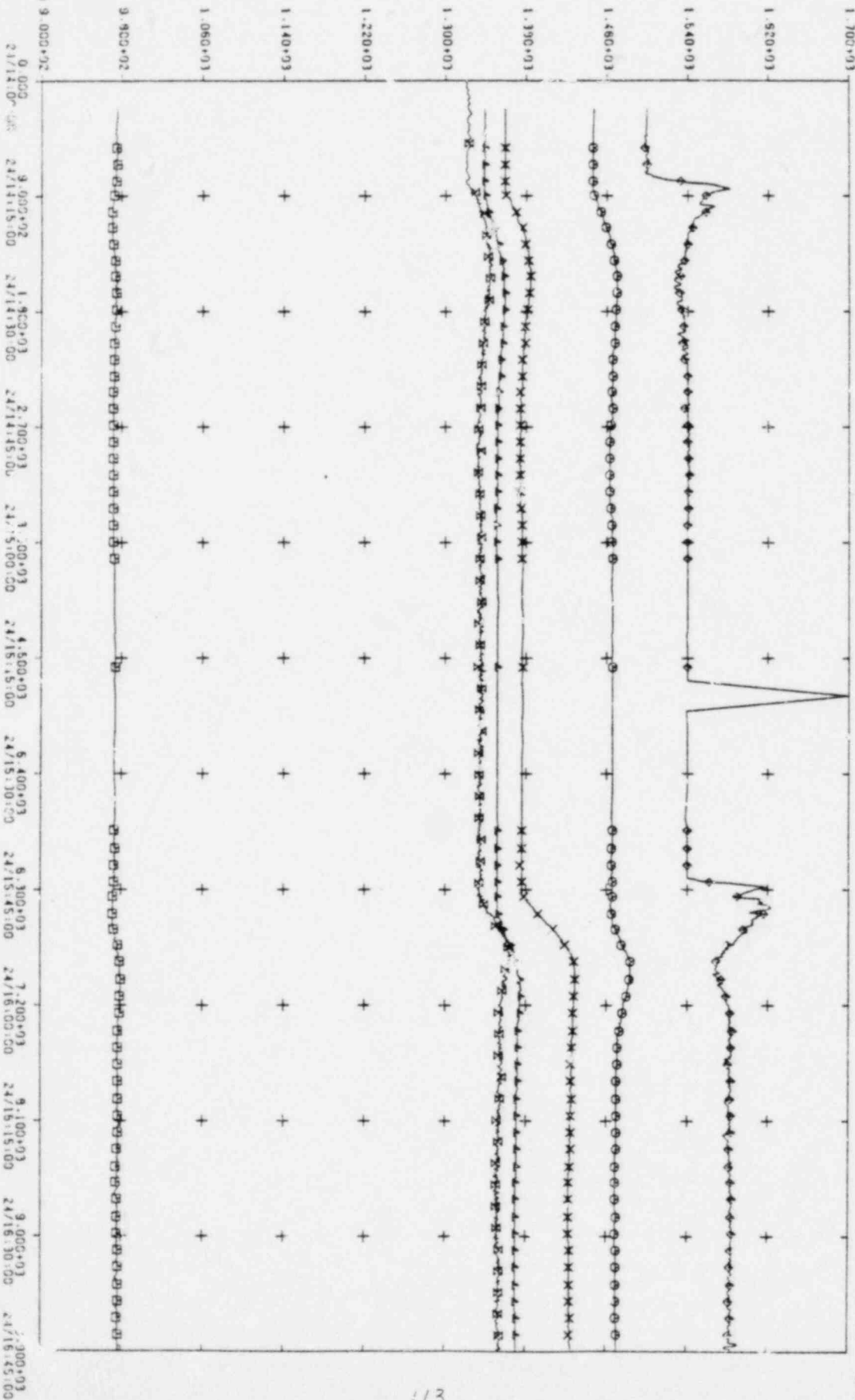
MO 04

SG/DL 4/24/81 1400 TO 1645

FRAME 13

GAS OUTLET, LINEAR PWR, AVE HE INLT NEAR 5-2-5

094 DL	TE11120-1	ROW 20 CORE	OUT GAS TEMP	DEC-F
095 DL	TE11121-1	ROW 21 CORE	OUT GAS TEMP	DEC-F
092 DL	TE11109-1	ROW 9 CORE	OUT GAS TEMP	DEC-F
090 DL	TE11109-1	ROW 9 CORE	OUT GAS TEMP	DEC-F
005 DL	NIM1135-5	LINEAR PWR	CHAN 5	(PERCENT + 7.000+01/ 1.000+01)
443 CC	5-2-5	AVE HE INLET TEMP	CALC	



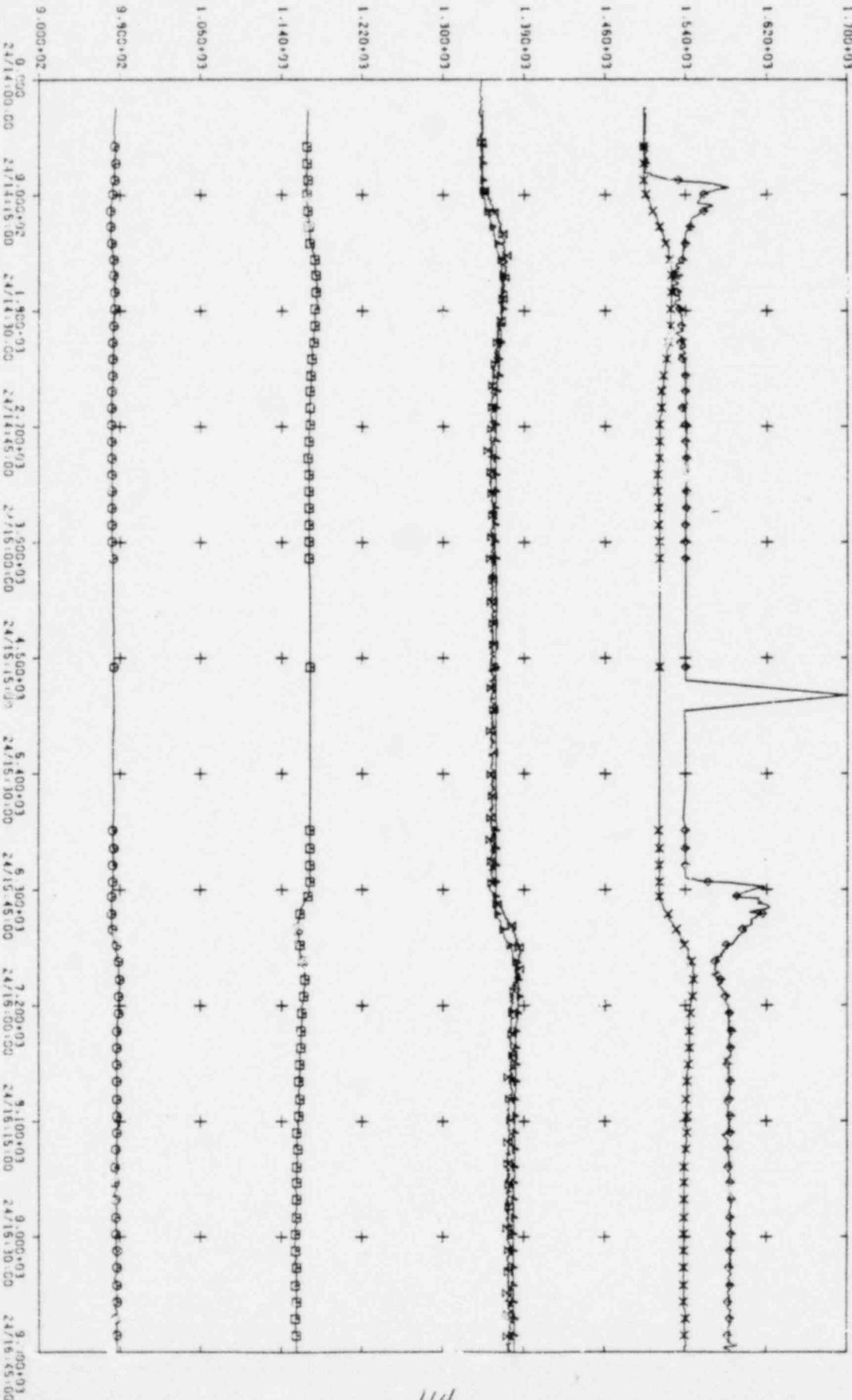
MO 04

SG/PL 4/24/81 1400 TO 1645

FRAME 14

ORIG OUTLET, LINEAR PWR AVE HE INLT NEAR B-2-6

111 DL	TE11137-1	RGN 37 CORE	OUT GAS TEMP	DEG-F
094 DL	TE11120-1	RGN 20 CORE	OUT GAS TEMP	DEG-F
092 DL	TE11109-1	RGN 9 CORE	OUT GAS TEMP	DEG-F
093 DL	TE11119-1	RGN 19 CORE	OUT GAS TEMP	DEG-F
005 S	NIM1135-5	LINEAR PWR	CHAN 5	PERCENT
444 CO	B-2-6 AVE HE	INLET TEMP	CALC	



MO 04

SG/DL 4/24/81 1400 TO 1545

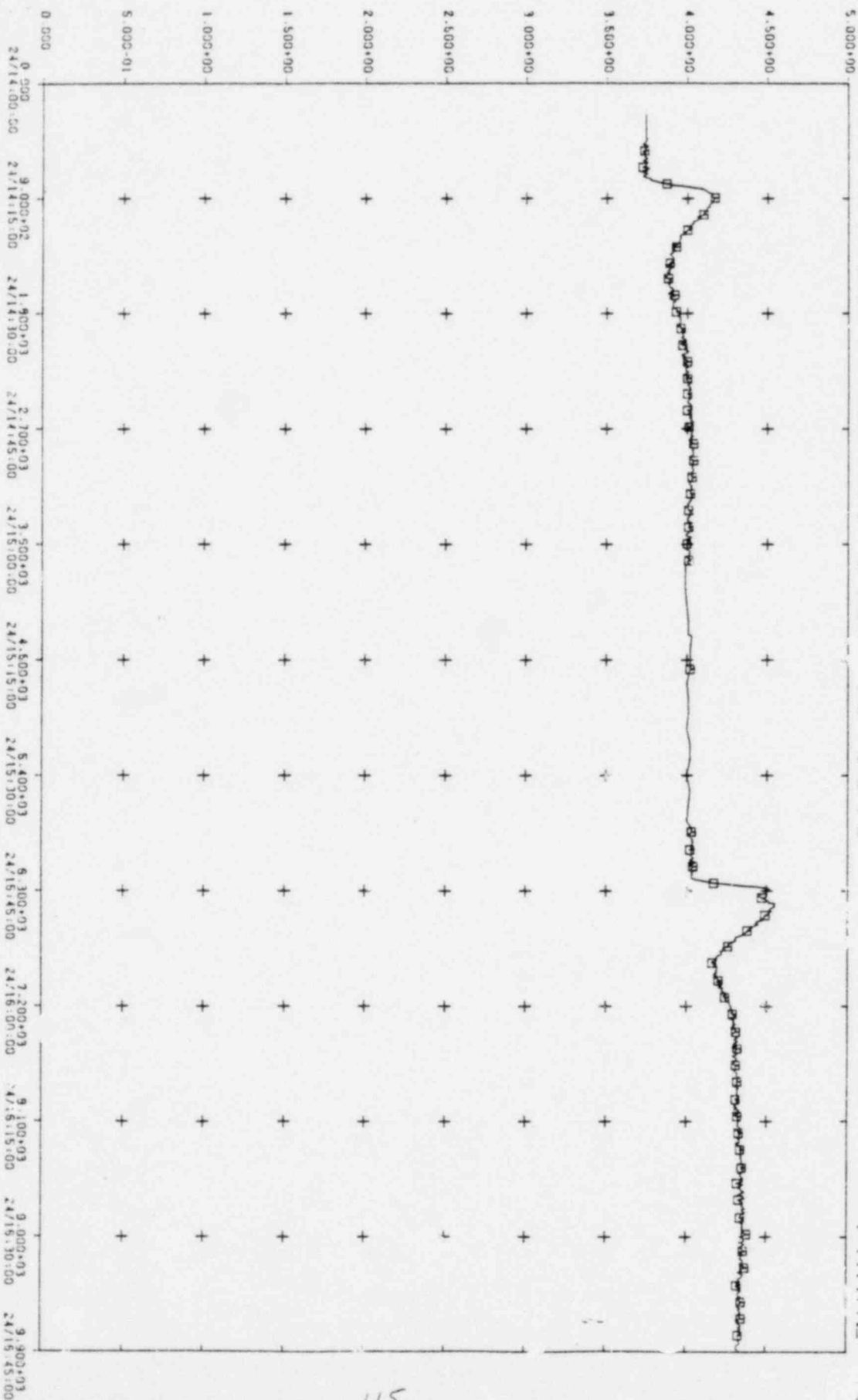
FRAME 03

CORE PRESSURE DROP
CORE DP

PSID

E3

172 DL



MO 04

SG/DL

4/24/81 1400 TO 1645

FRAME

REC ROD
ROW DI CNTRL ROD POSITION INS

039 DI

