AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
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FILE:

FROM:	DATE OF DOC	DATE REC'D	LTR	MEMO	RPT	OTHER
Carolina Power & Light Company Raleigh, N. C. 27602 E. E. Utley	10-12-73	10-19-72	X			

TO:	ORIG	CC	OTHER	SENT AEC PDR	SENT LOCAL PDR
A. Giambusso	3 signed	37		X	X

CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D	DOCKET NO:
	XX			40	50-261

DESCRIPTION:
Ltr trans the following:

ENCLOSURES:
Report:-Biweekly report of Incore Surveillance for the peroid 9-20 thru 10-3-73

ACKNOWLEDGED
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(3 Orig & 37 cys rec'd)

PLANT NAME: H. B. Robinson Unit No. 2

FOR ACTION/INFORMATION 10-19-73 GC

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Regulatory Docket File

Carolina Power & Light Company

October 12, 1973

FILE: NG 3514 SERIAL: NG-73-281

Mr. A. Giambusso
Deputy Director for Reactor Projects
Directorate of Reactor Licensing
Office of Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. Giambusso: 50-261

H. B. ROBINSON UNIT NO. 2
LICENSE DPR-23
BIWEEKLY REPORT OF RESULTS OF INCORE SURVEILLANCE

In accordance with the requirements of the "Interim Conditions for Operation, H. B. Robinson Unit No. 2," dated July 25, 1973, we hereby submit as an attachment the biweekly report of the results of incore surveillance for the period September 20-October 3, 1973.

Yours very truly,

E. E. Utley
Vice-President
Bulk Power Supply

DBW:pn

Attachment

cc: Mr. C. D. Barham
Mr. N. B. Bessac
Mr. B. J. Furr
Mr. D. V. Menscer
Mr. D. B. Waters

7684

336 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602

H. B. ROBINSON STEAM ELECTRIC PLANT

UNIT NO. 2

October 5, 1973

INCORE SURVEILLANCE DATA SUMMARY

Robinson File No. 2-A-7

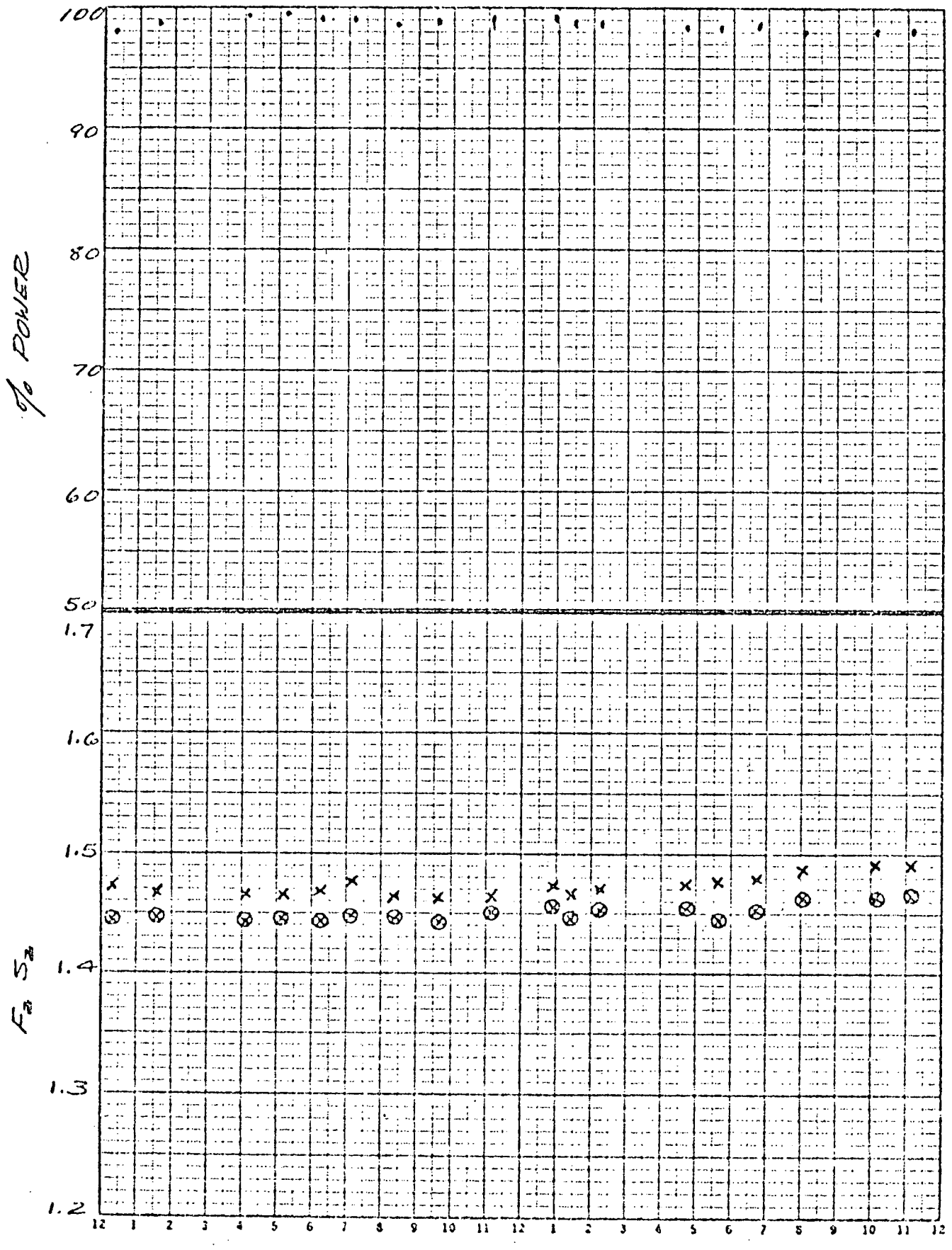
Surveillance of the $F_Z S_Z$ was performed at one to two hour intervals from September 20, 1973 through October 3, 1973. Data taken during the surveillance was then graphed and copies of these graphs are attached to this report.

During this reporting period there were two valve tests, (September 23 and September 30). On October 2, the plant was reduced to approximately 65% of full power for the purpose of making repairs to a service water cooler. There was one period, (October 1), during which the APDMS data was not available to the operator. This was attributed to the failure of the plant computer. It was restored to operating condition before the eight hour limit was exceeded.

Compiled By: Ray H. Chambers
R. H. Chambers

Approved By: B J Furr
Benny J. Furr

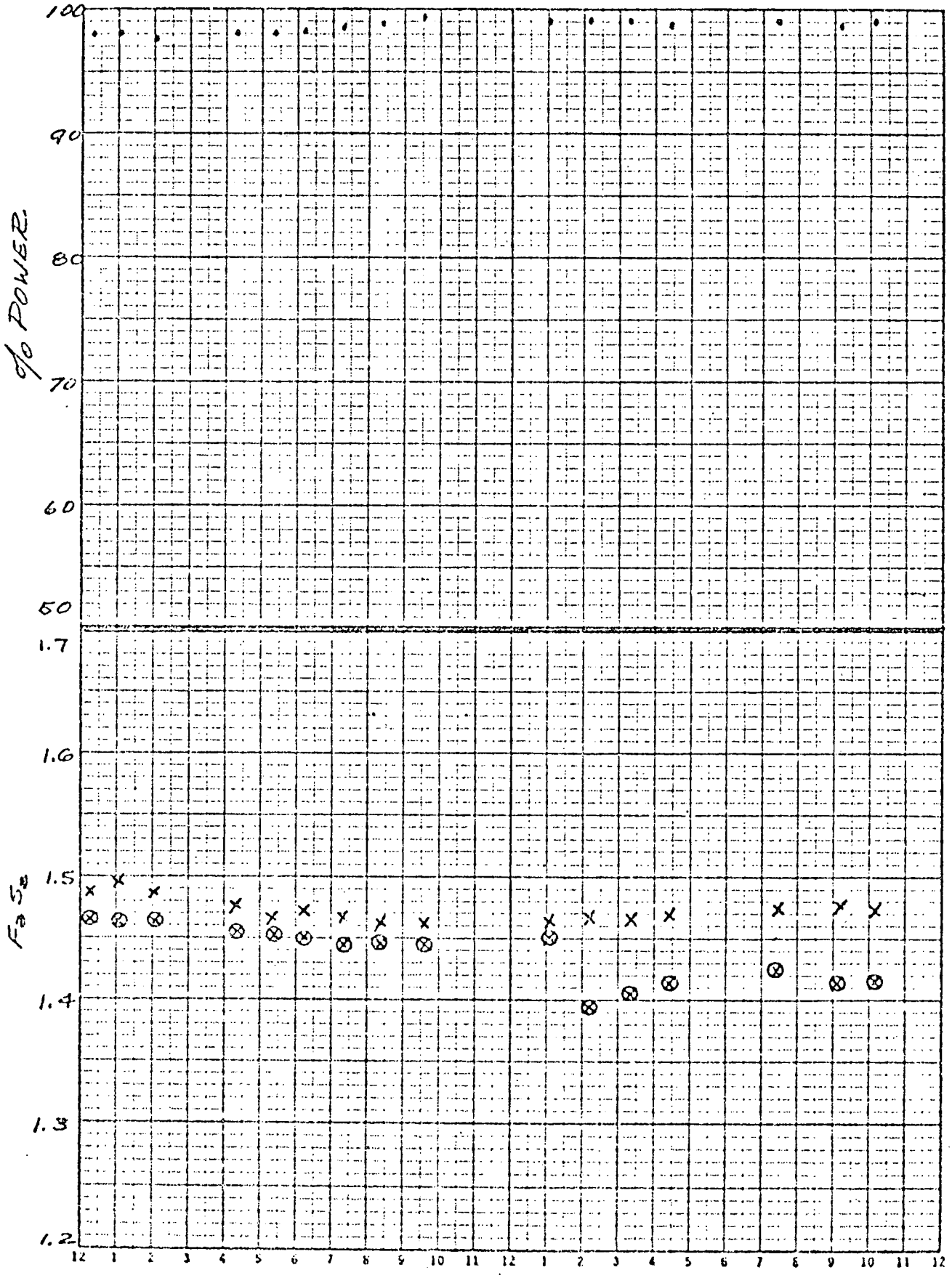
RHC:sr



KEUFFEL & ESSER CO. 46 2090
1 DAY BY HOURS
X 100 DIVISIONS

SEPT. 20, 1973

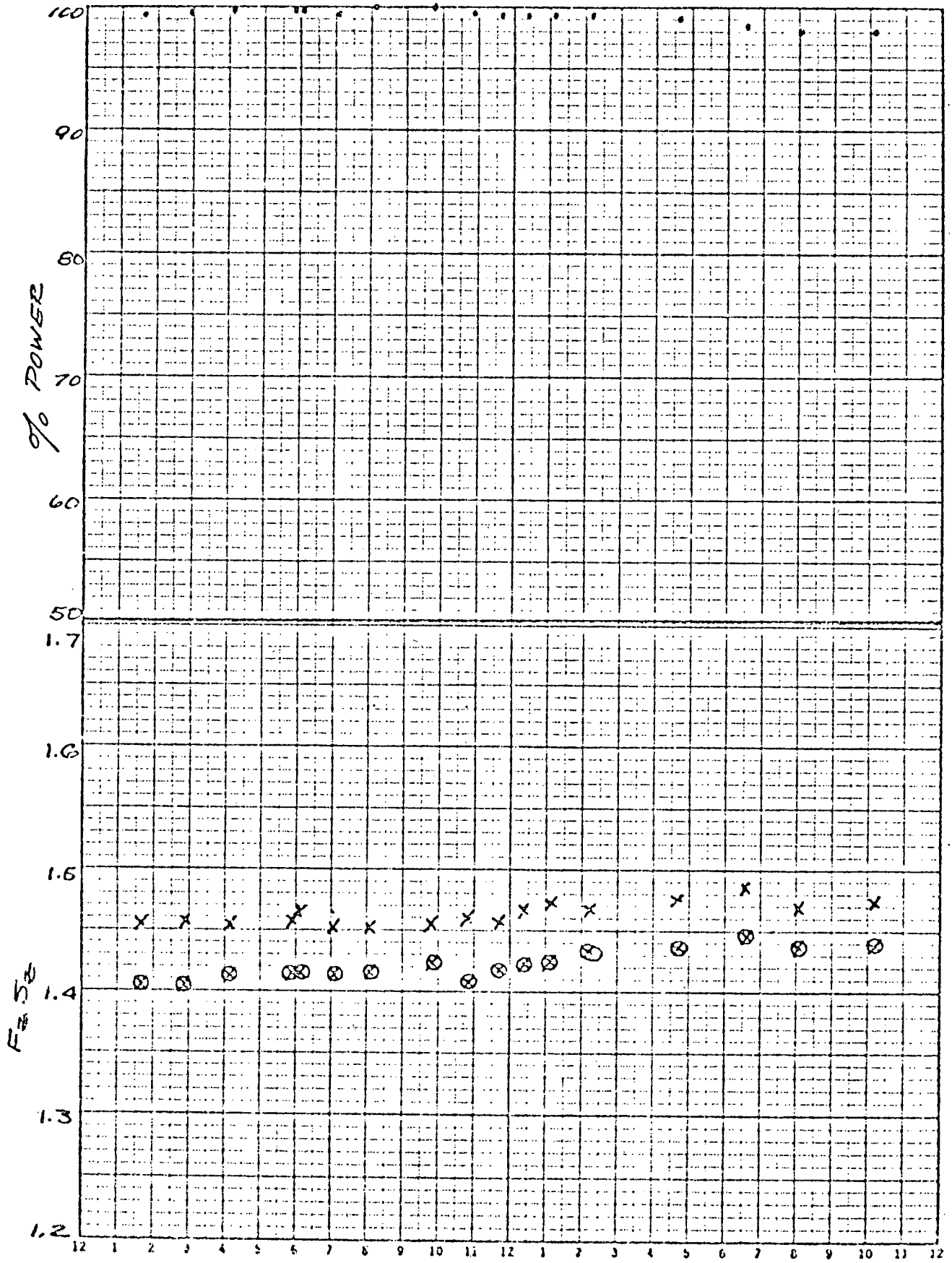
LEGEND: POWER.
F-13 ×
N-10 ⊗



KEUFFEL & ESSER CO. MADE IN U.S.A. 46 2020
1 DAY BY HOURS
X 100 DIVISIONS

SEPT. 21, 1973

LEGEND: POWER -
F-15 X
N-10 ⊗



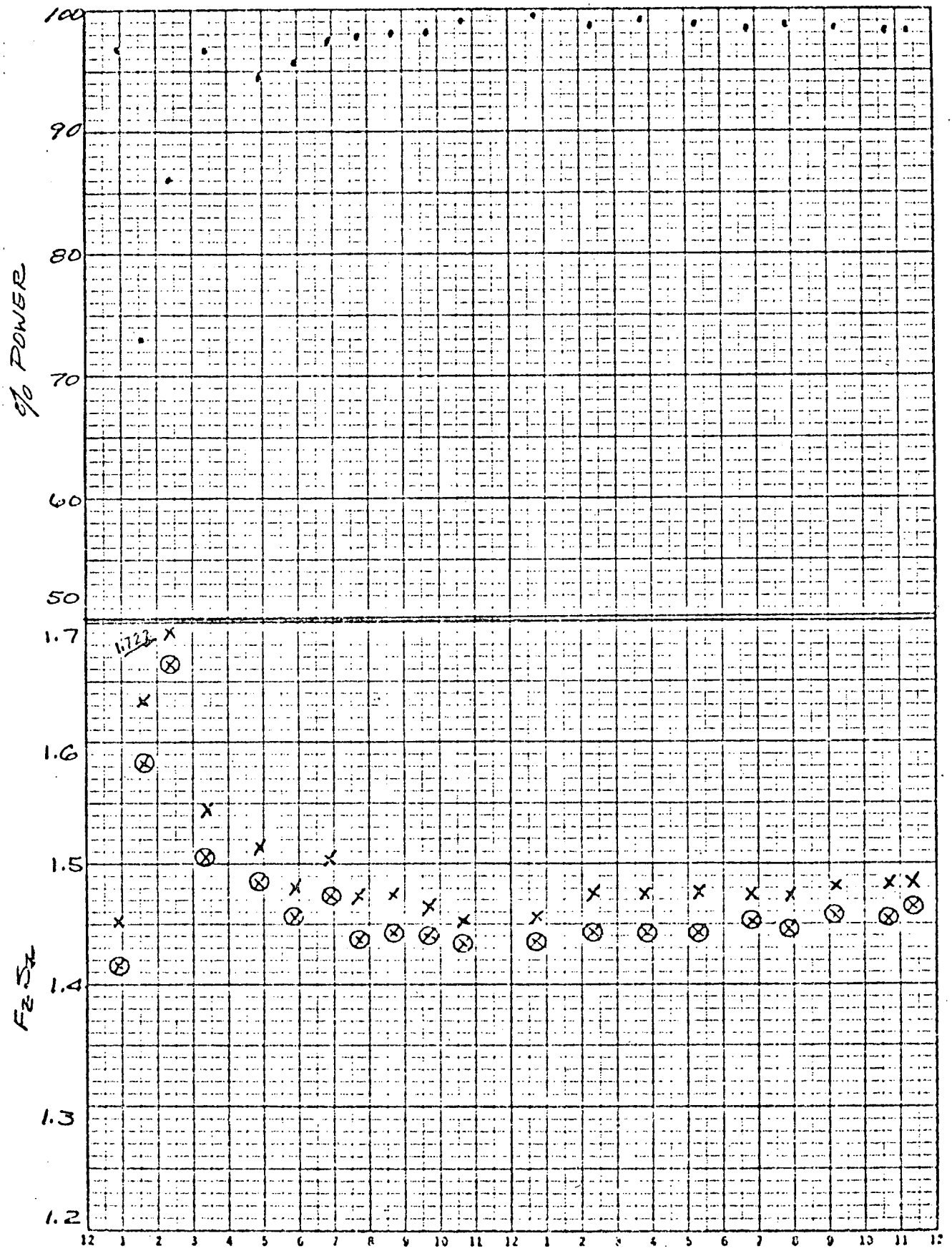
KEUFFEL & ESSER CO. 46 2020
1 DAY BY HOURS
X 100 DIVISIONS

SEPT. 22, 1973

LEGEND: POWER.

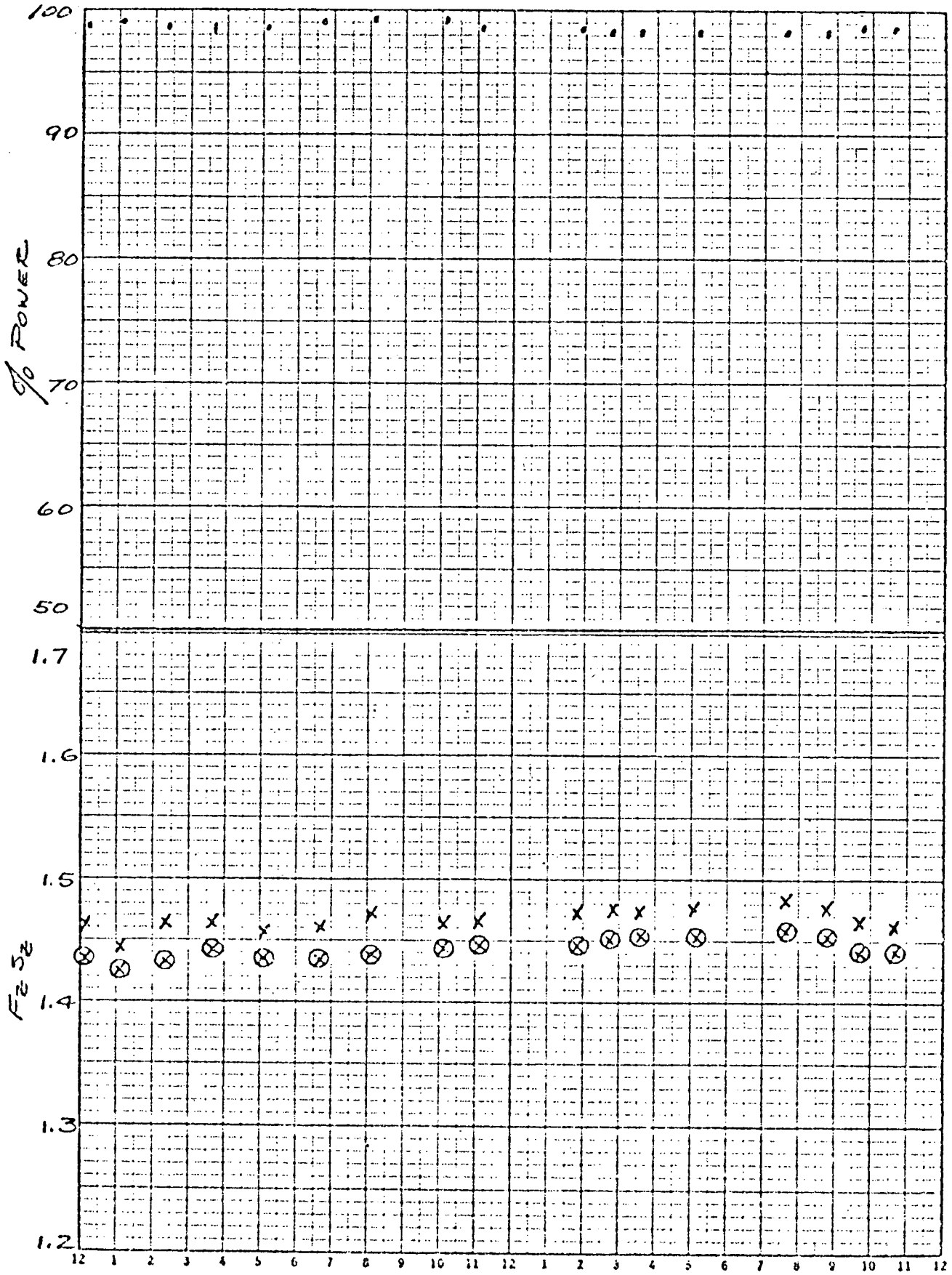
F-13 ×

N-10 ⊗



SEPT. 23, 1973

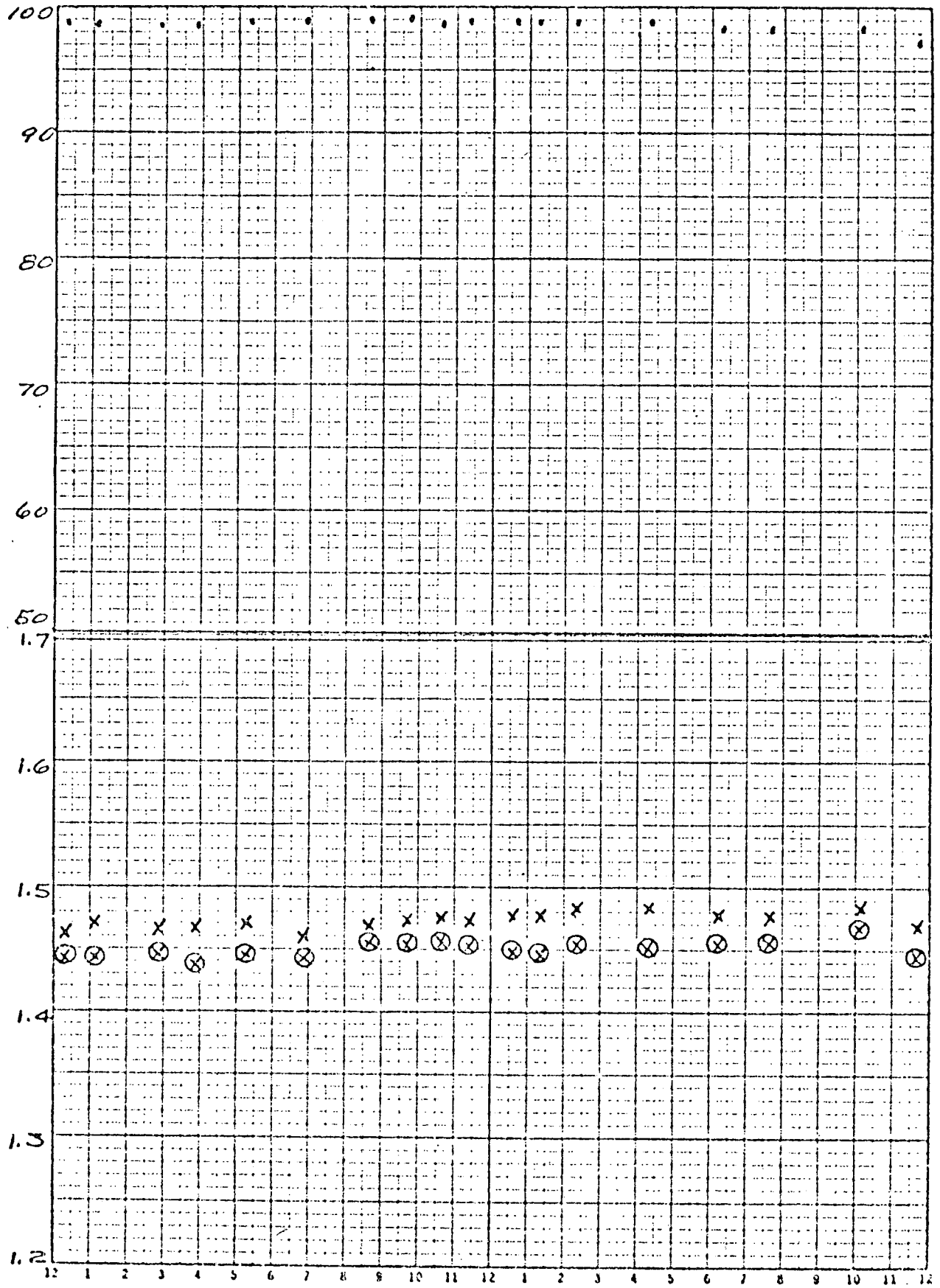
LEGEND: POWER.
F-13 X
N-10 ⊗



KE 1 DAY BY HOURS 46 2090
X 100 DIVISIONS
KEUFFEL & ESSER CO.

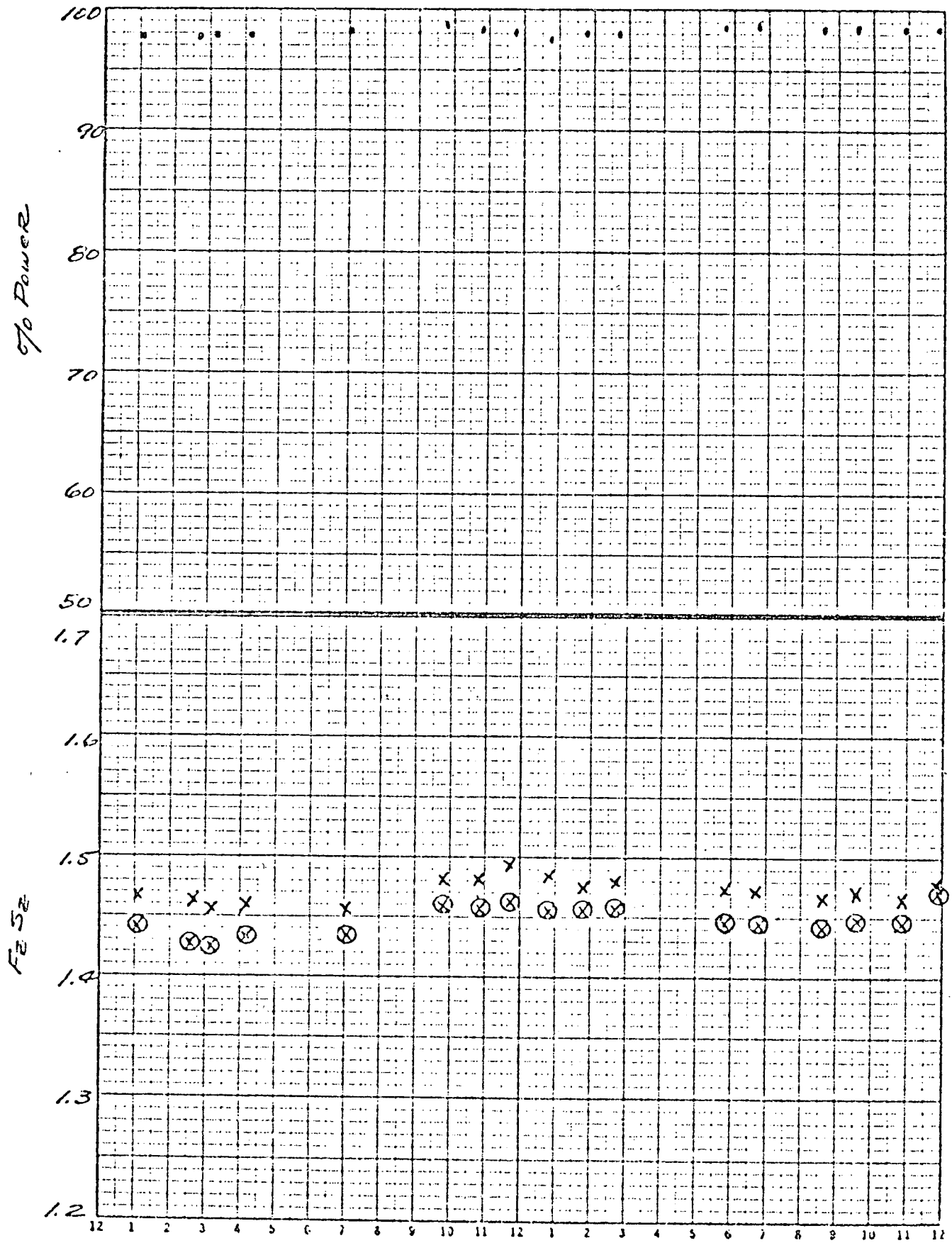
SEPT. 24, 1973

LEGEND: POWER •
F-13 ×
N-10 ⊗



K&E 1 DAY BY HOURS 46 2090
X 100 DIVISIONS
KEUFFEL & ESSER CO.

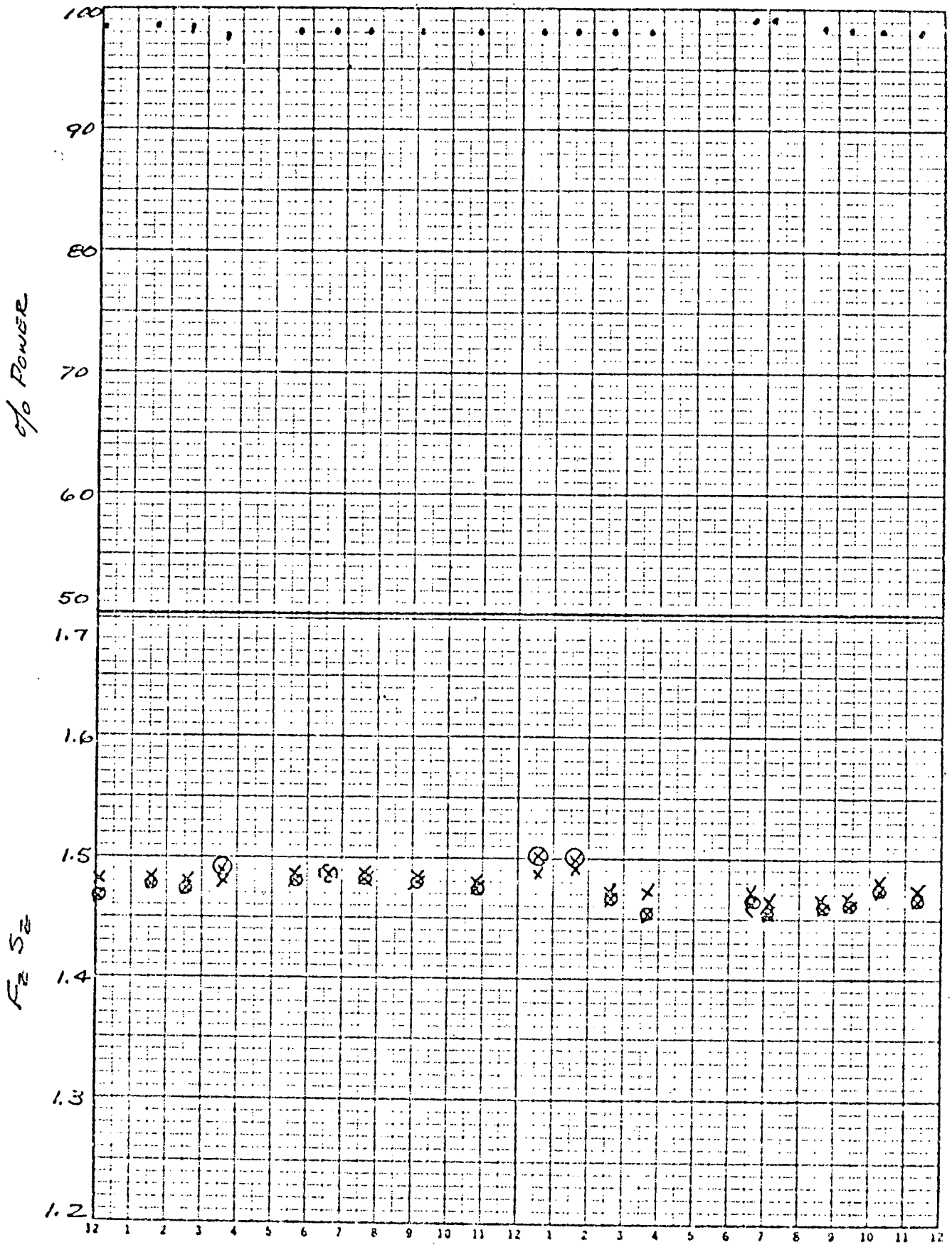
SEPT. 25, 1973



KEUFFEL & ESSER CO. 46 2090
X 1 DAY BY HOURS
X 100 DIVISIONS

SEPT. 26, 1973

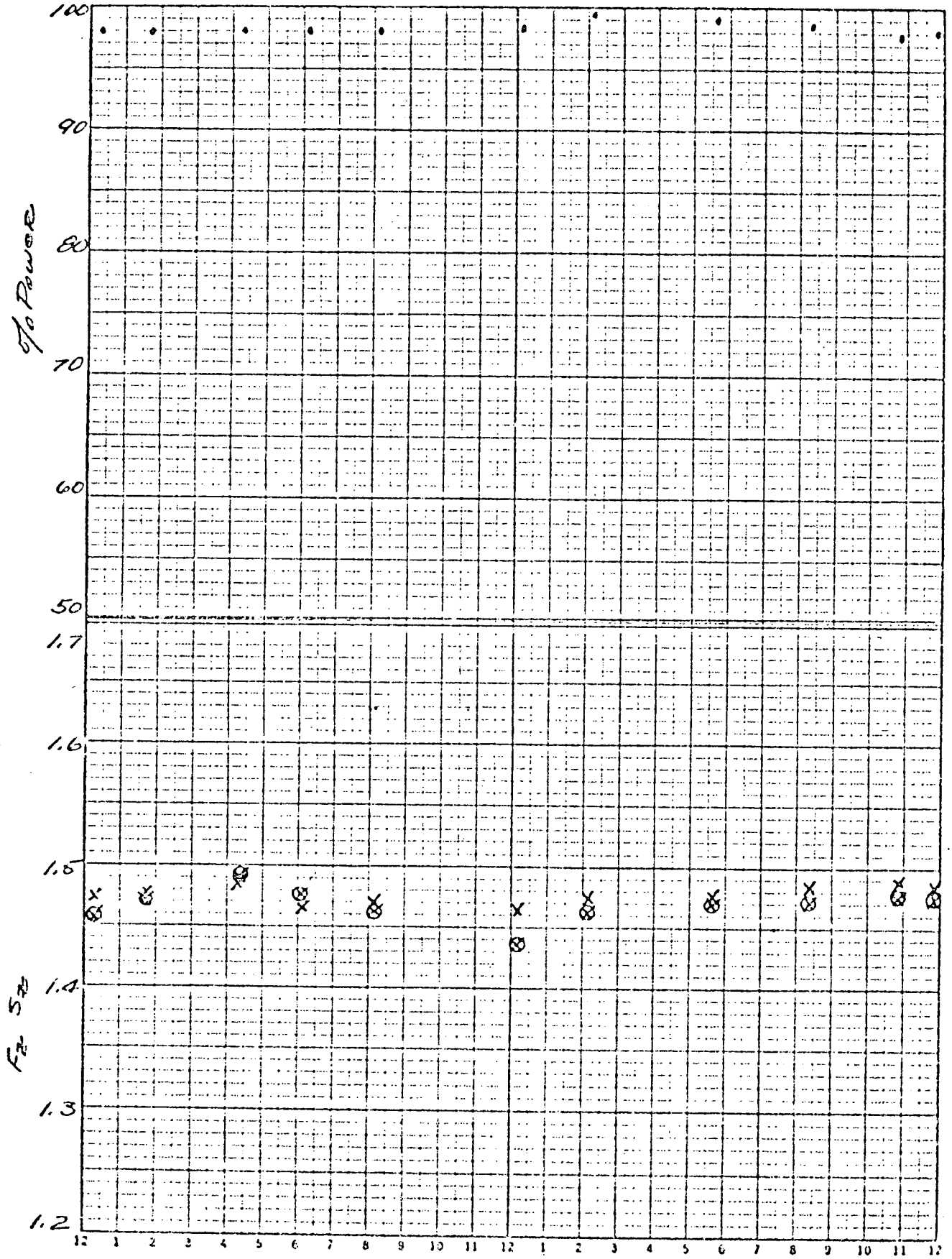
LEGEND: POWER • F-13 & N-10 APPEAR AS THE SAME POINT ⊗
F-13 ×
N-10 ⊗



KOTEX 1 DAY BY HOURS 46 2080
X 100 DIVISIONS
KEUFFEL & ESSER CO.

SEPT. 27, 1973

LEGEND: POWER -
F-13 ×
N-10 ⊗

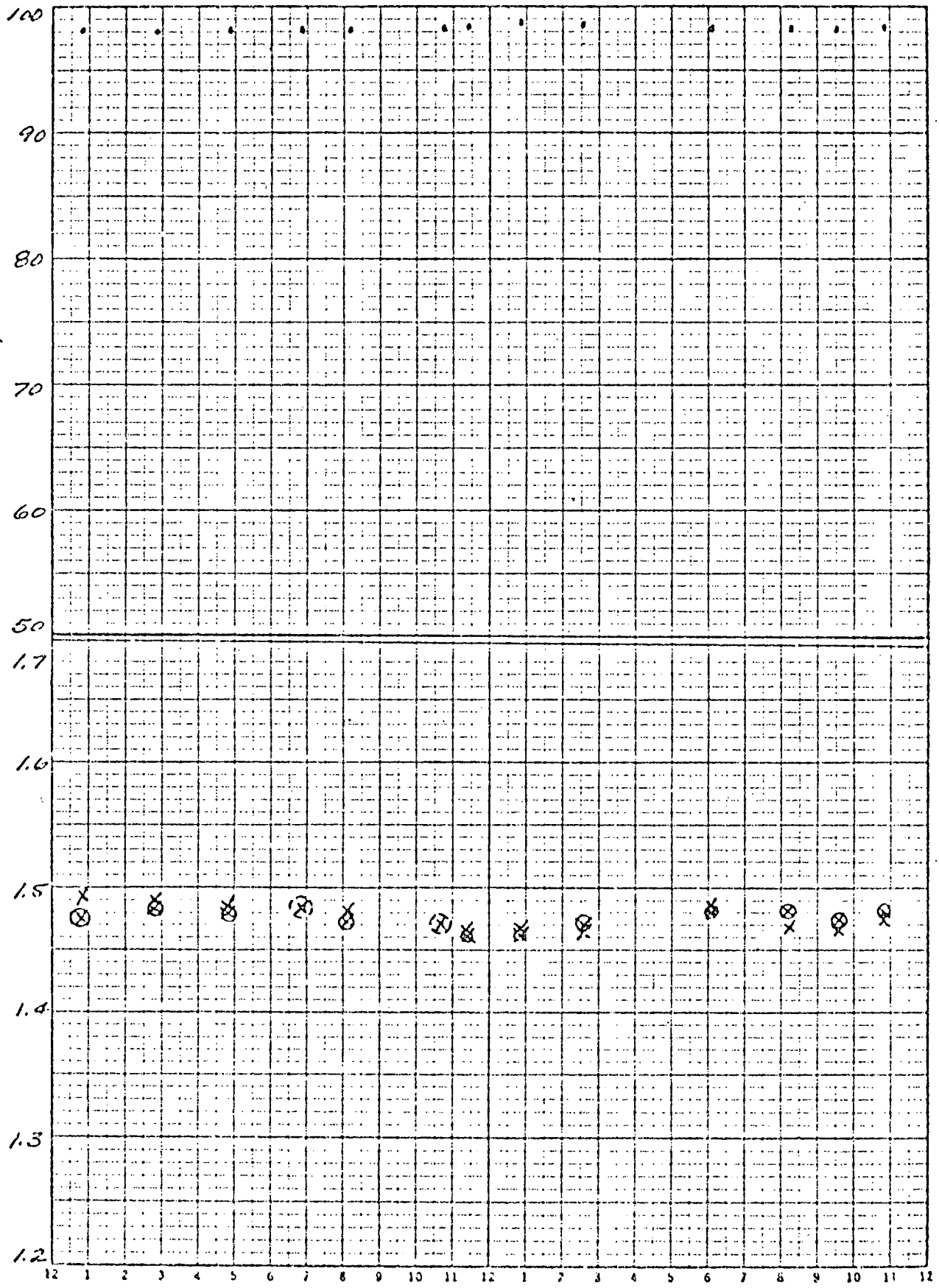


SEPT. 28, 1973

LEGEND: POWER • F-13 & N-10 APPEAR AS the SAME POINT ⊗

F-13 X

N-10 ⊗

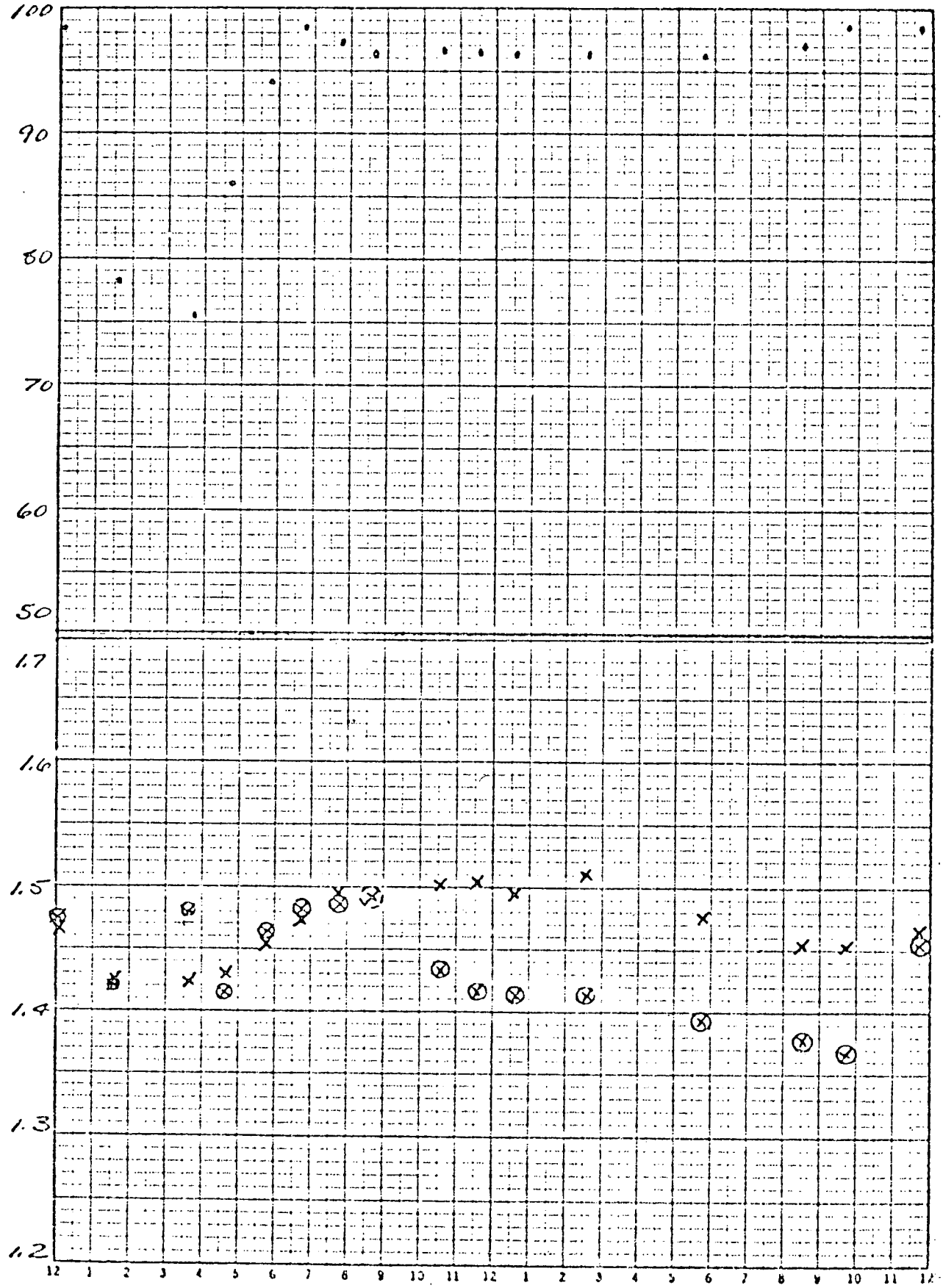


KEUFFEL & ESSER CO. 46 2030
1 DAY BY HOURS
X 100 DIVISIONS
MADE IN U.S.A.

SEPT. 29, 1973

LEGEND: Power •
F-13 ×
N-10 ⊗

F-13 & N-10 APPEAR AS THE SAME POINT ⊗



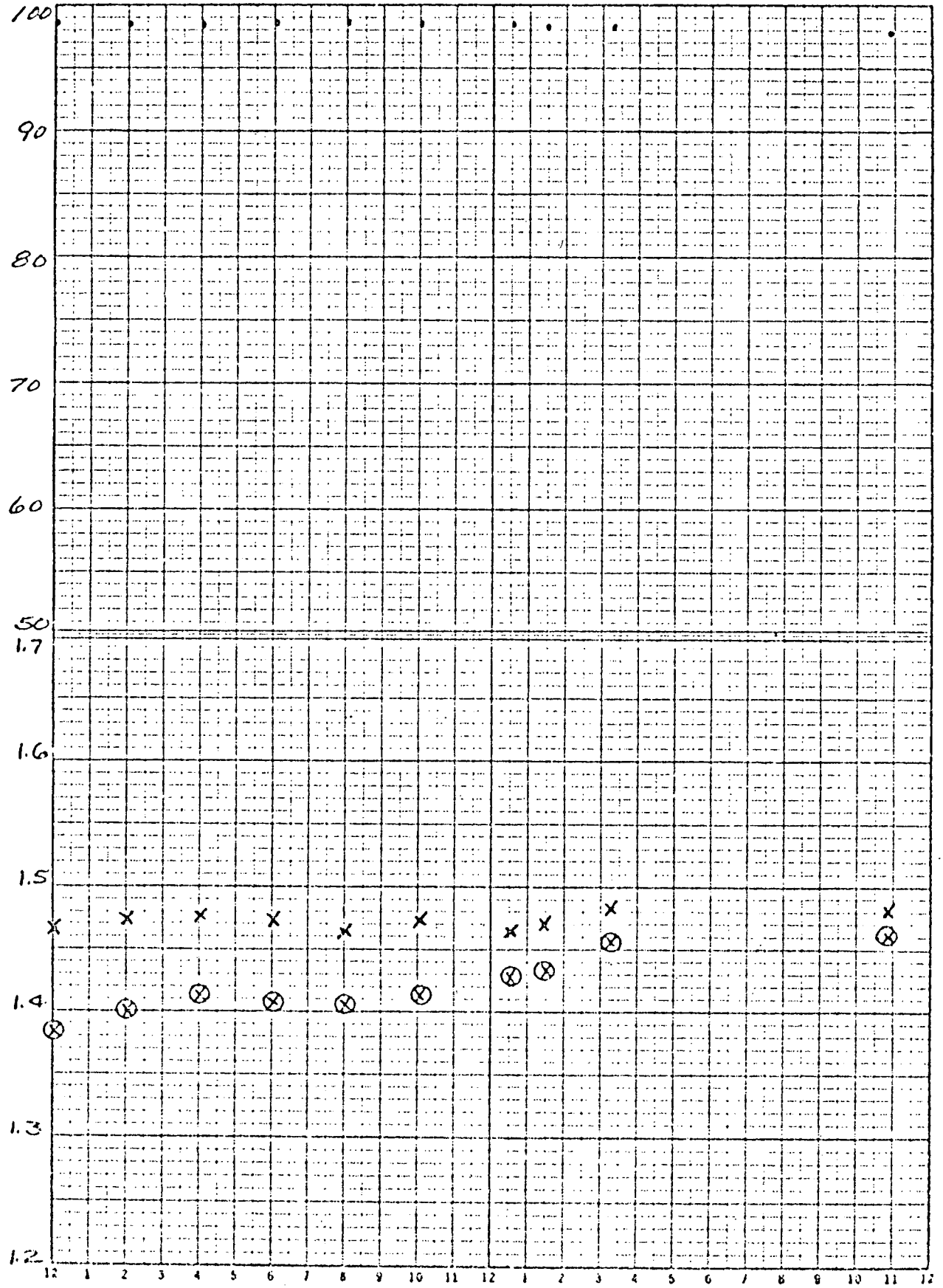
KEUFFEL & ESSER CO. 46 2080
1 DAY BY HOURS
X 100 DIVISIONS

SEPT. 30, 1973

LEGEND: POWER.

F-13 ×

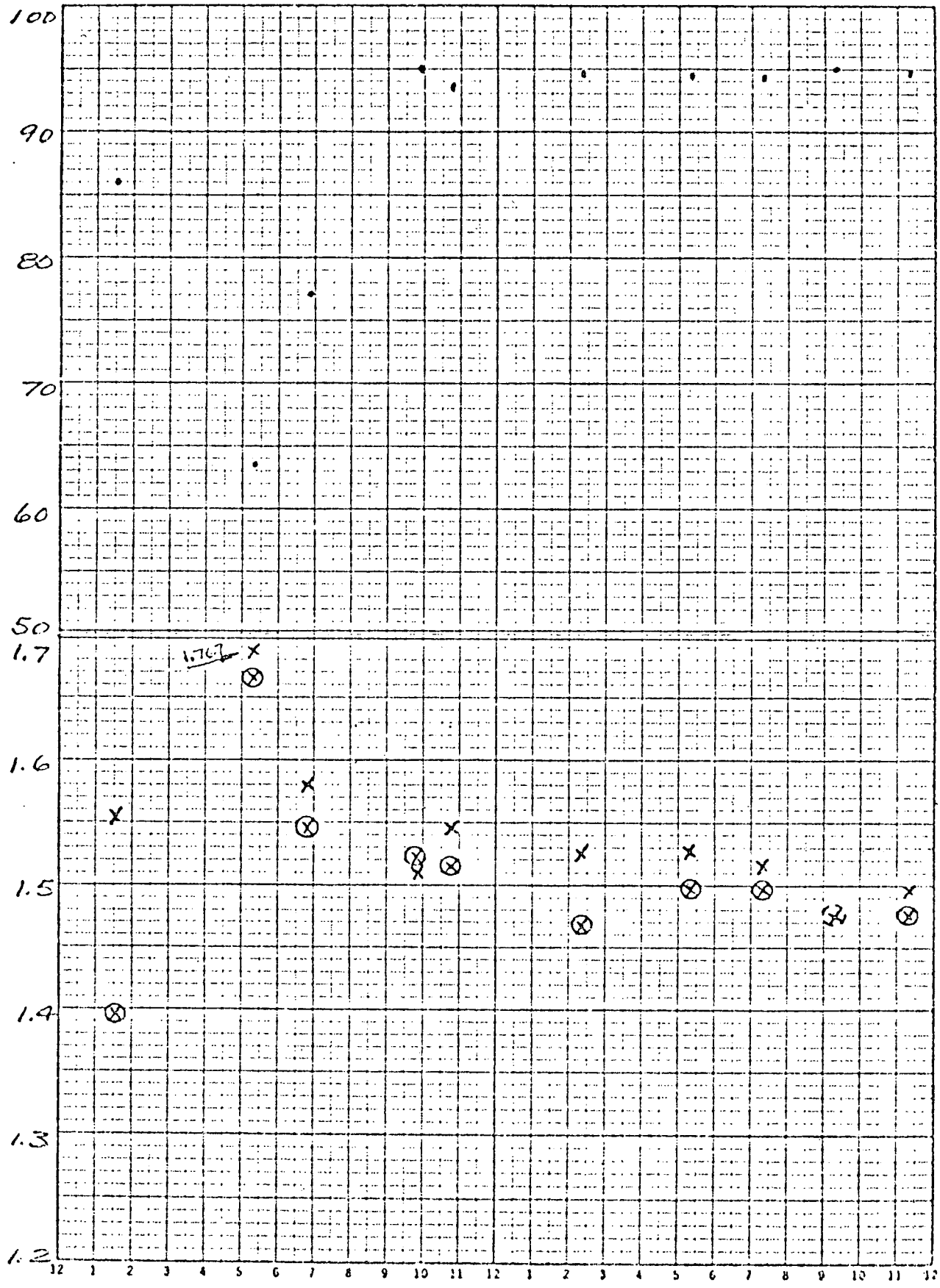
N-10 ⊗



OCTOBER 1, 1973

LEGEND: POWER •
F-13 x
N-10 ⊗

F-13 & N-10 APPEAR AS THE SAME POINT ⊗



KEUFFEL & ESSER CO. 46 2090
1 DAY BY HOURS
X 100 DIVISIONS

Fig 5

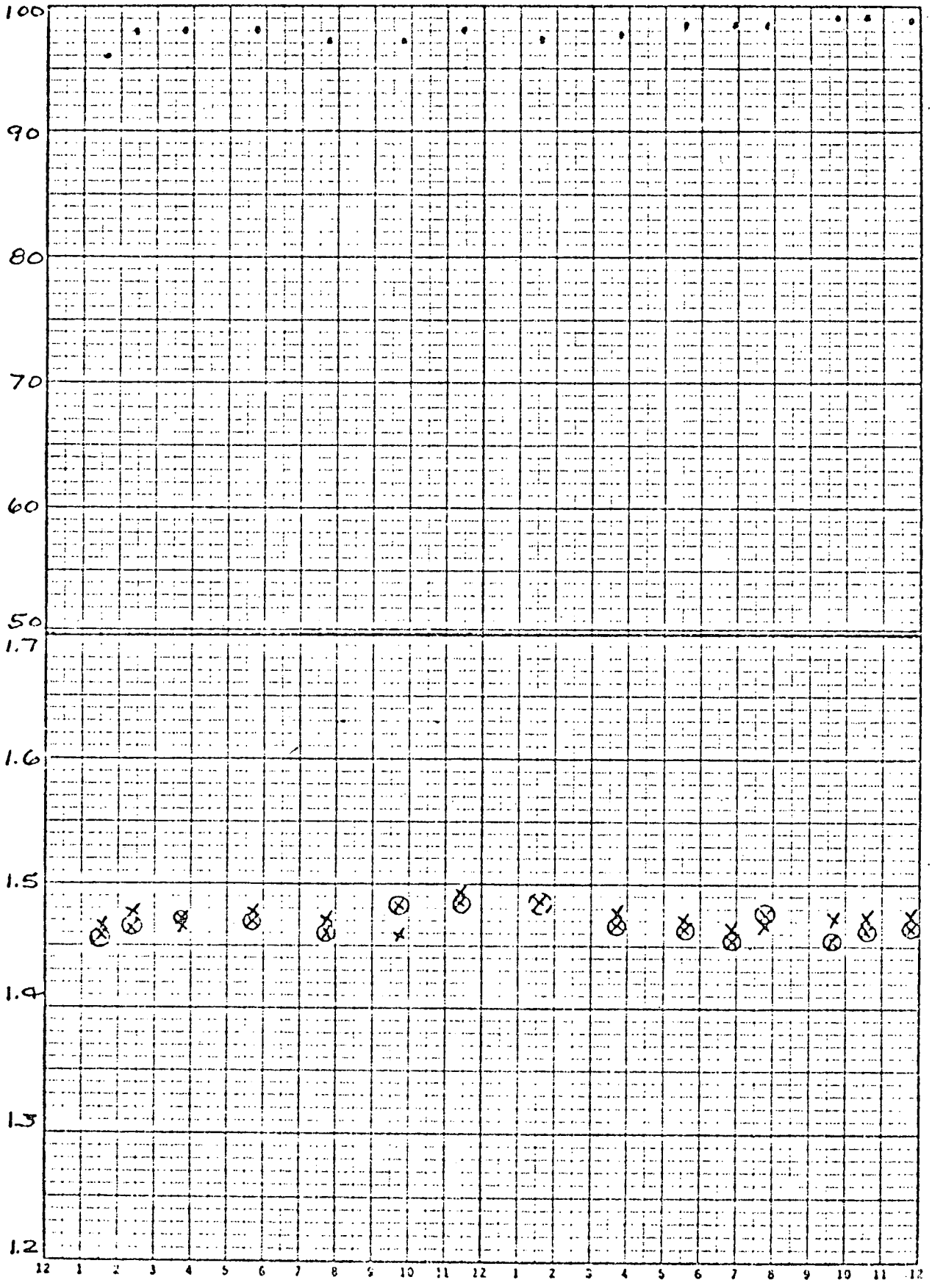
OCTOBER 2, 1973

LEGEND ● POWER •

F-15 X

N-10 ⊗

F-13 & N-10 APPEAR AS THE SAME POINT ⊗



KEUFFEL & ESSER CO. 46 2090
1 DAY BY HOURS
X 100 DIVISIONS

OCTOBER 3, 1973

AVG AXIAL CONDITIONS   PDQ2 MAP 118 WITH ONLY DETECTOR F IN H3 F4 F8 B5 J3

AVERAGE SOURCE PER FOOT = 0.142094E-17   AVERAGE KW/FT = 0.557545E 01   AVERAGE KW/SOURCE = 0.392378E 19

POWER LEVEL EDITED AT = 2142.80 MEGAWATTS THERMAL

POINT	KW/FT	NORMALIZED KW/FT	MAX KW/FT	POINT	KW/FT	NORMALIZED KW/FT	MAX KW/FT
1	3.419105	0.613084	0.731657	30	6.009566	1.077830	1.256807
2	2.643081	0.474954	0.604370	31	6.064002	1.087626	1.261645
3	3.024478	0.542464	0.587471	32	6.108939	1.095635	1.265516
4	3.581365	0.642425	0.814594	33	6.134788	1.100322	1.265369
5	3.974349	0.713817	0.903692	34	6.145011	1.102156	1.263070
6	4.122332	0.739372	0.934157	35	6.132668	1.099941	1.251732
7	4.583448	0.822974	1.037353	36	6.022486	1.080179	1.224922
8	5.064330	0.908327	1.142674	37	5.689166	1.020396	1.148965
9	5.341841	0.958101	1.200115	38	5.755340	1.032444	1.158401
10	5.522085	0.990429	1.239919	39	6.076501	1.089869	1.216290
11	5.662952	1.015695	1.269110	40	6.222594	1.116071	1.238337
12	5.671736	1.017270	1.266500	41	6.291327	1.128398	1.243493
13	5.642925	1.012102	1.255006	42	6.347656	1.138501	1.252350
14	5.669773	1.016918	1.258333	43	6.386836	1.145537	1.259925
15	5.653644	1.010438	1.245363	44	6.409990	1.149682	1.250853
16	5.253661	0.960261	1.181120	45	6.400744	1.148024	1.242161
17	5.292544	0.949259	1.163316	46	6.328739	1.135100	1.219106
18	5.611511	1.006468	1.227895	47	6.029616	1.081453	1.156619
19	5.773104	1.035347	1.251233	48	5.895850	1.057447	1.124086
20	5.835387	1.046622	1.270598	49	6.129648	1.099400	1.161514
21	5.872753	1.053324	1.274520	50	6.291368	1.128405	1.187031
22	5.893235	1.057094	1.274761	51	6.257571	1.122344	1.173971
23	5.913308	1.060597	1.272717	52	6.107267	1.095386	1.139652
24	5.914514	1.060814	1.268732	53	5.847065	1.048717	1.083323
25	5.872622	1.053302	1.253428	54	5.439948	0.975697	1.003016
26	5.701284	1.022570	1.212767	55	4.851526	0.870159	0.887562
27	5.442620	0.976177	1.151887	56	4.031601	0.723099	0.733945
28	5.664015	1.015865	1.195523	57	3.002109	0.538452	0.581528
29	5.919809	1.061764	1.242262				

PEAK ROD ENTHALPY RISE *HBR2 MAP 118 WITH ONLY DETECTOR F IN M3 F4 F8 B5 J3

R	P	N	M	L	K	J	H	G	F	E	D	C	B	A	
						1.191.	1.322.	1.191.							1
					1.206.	1.364.	1.453.	1.113.	1.453.	1.364.	1.206.				2
				1.169.	1.417.	1.044.	1.014.	1.229.	1.014.	1.044.	1.417.	1.169.			3
			1.190.	1.112.	1.019.	1.262.	1.032.	1.122.	1.032.	1.262.	1.019.	1.112.	1.190.		4
		1.191.	1.396.	1.024.	1.198.	1.050.	1.127.	0.967.	1.127.	1.050.	1.198.	1.024.	1.396.	1.191.	5
		1.351.	1.041.	1.268.	1.046.	1.252.	1.178.	1.240.	1.178.	1.252.	1.046.	1.268.	1.041.	1.351.	6
	1.148.	1.442.	1.022.	1.030.	1.131.	1.171.	1.164.	0.953.	1.164.	1.171.	1.131.	1.030.	1.022.	1.442.	1.148. 7
	1.198.	1.072.	1.274.	1.145.	0.980.	1.180.	0.928.	0.978.	0.928.	1.180.	0.980.	1.145.	1.274.	1.072.	1.198. 8
	1.148.	1.442.	1.022.	1.030.	1.131.	1.171.	1.164.	0.953.	1.164.	1.171.	1.131.	1.030.	1.022.	1.442.	1.148. 9
		1.351.	1.041.	1.268.	1.046.	1.252.	1.178.	1.240.	1.178.	1.252.	1.046.	1.268.	1.041.	1.351.	10
		1.191.	1.396.	1.024.	1.198.	1.050.	1.127.	0.967.	1.127.	1.050.	1.198.	1.024.	1.396.	1.191.	11
			1.190.	1.112.	1.019.	1.262.	1.032.	1.122.	1.032.	1.262.	1.019.	1.112.	1.190.		12
				1.169.	1.417.	1.044.	1.014.	1.229.	1.014.	1.044.	1.417.	1.169.			13
					1.206.	1.364.	1.453.	1.113.	1.453.	1.364.	1.206.				14
						1.191.	1.322.	1.191.							15
R	P	N	M	L	K	J	H	G	F	E	D	C	B	A	

*HBR2 MAP 113 WITH ONLY DECTECTOR E IN M3 F4 F8 G5 J3

SUMMARY OF KEY PERFORMANCE PARAMETERS

MAXIMUM PEAK KW/FT OF 9.92 OCCURRED IN ASSEMBLY 6 LOCATED AT J 2
PEAK KW/FT IN REGION 1 OF 7.01 OCCURRED IN ASSEMBLY 79 AT LOCATION H 8
PEAK KW/FT IN REGION 2 OF 7.59 OCCURRED IN ASSEMBLY 7 AT LOCATION H 2
PEAK KW/FT IN REGION 3 OF 8.59 OCCURRED IN ASSEMBLY 74 AT LOCATION N 8
PEAK KW/FT IN REGION 4 OF 9.92 OCCURRED IN ASSEMBLY 6 AT LOCATION J 2

MAXIMUM AXIAL PEAKING FACTOR OF 1.25 OCCURRED IN ASSEMBLY 79 LOCATED AT H 8
MAXIMUM AXIAL PEAKINGFACTOR IN REGION 1 OF 1.25 OCCURRED IN ASSEMBLY 79 LOCATED AT H 8
MAXIMUM AXIAL PEAKINGFACTOR IN REGION 2 OF 1.19 OCCURRED IN ASSEMBLY 151 LOCATED AT H14
MAXIMUM AXIAL PEAKINGFACTOR IN REGION 3 OF 1.25 OCCURRED IN ASSEMBLY 133 LOCATED AT H12
MAXIMUM AXIAL PEAKINGFACTOR IN REGION 4 OF 1.24 OCCURRED IN ASSEMBLY 156 LOCATED AT H15

MAXIMUM RADIAL PEAKING FACTOR OF 1.26 OCCURRED IN ASSEMBLY 6 LOCATED AT J 2
MAXIMUM RADIAL PEAKING FACTOR IN REGION 1 OF 0.90 OCCURRED IN ASSEMBLY 79 LOCATED AT H 8
MAXIMUM RADIAL PEAKING FACTOR IN REGION 2 OF 1.00 OCCURRED IN ASSEMBLY 151 LOCATED AT H14
MAXIMUM RADIAL PEAKING FACTOR IN REGION 3 OF 1.15 OCCURRED IN ASSEMBLY 110 LOCATED AT F10
MAXIMUM RADIAL PEAKING FACTOR IN REGION 4 OF 1.26 OCCURRED IN ASSEMBLY 152 LOCATED AT G14

AVERAGE AXIAL OFFSET (PERCENT) -6.72

MAXIMUM GROSS PEAKING (FDH) FACTOR OF 1.73 OCCURRED IN ASSEMBLY 6 LOCATED AT J 2
MAXIMUM GROSS PEAKING FACTOR IN REGION 1 OF 1.22 OCCURRED IN ASSEMBLY 79 LOCATED AT H 8
MAXIMUM GROSS PEAKING FACTOR IN REGION 2 OF 1.32 OCCURRED IN ASSEMBLY 151 LOCATED AT H14
MAXIMUM GROSS PEAKING FACTOR IN REGION 3 OF 1.50 OCCURRED IN ASSEMBLY 84 LOCATED AT C 8
MAXIMUM GROSS PEAKING FACTOR IN REGION 4 OF 1.73 OCCURRED IN ASSEMBLY 152 LOCATED AT G14

CENTER ASSEMBLY AVERAGE POWER FRACTION 0.887
REGION 2 AVERAGE POWER FRACTION 0.935
REGION 3 AVERAGE POWER FRACTION 1.075
REGION 4 AVERAGE POWER FRACTION 0.949

END OF INCORE RUN IBY VERSION 1 06-01-73

AVG AXIAL CONDITIONS HBR2 MAP119 9/28/73 POS 180 1KLOCAL 3KTHIMBLE

AVERAGE SOURCE PER FOOT = 0.141543E-17 AVERAGE KW/FT = 0.557545E 01 AVERAGE KW/SOURCE = 0.393905E 19

POWER LEVEL EDITED AT = 2142.80 MEGAWATTS THERMAL

POINT	KW/FT	NORMALIZED KW/FT	MAX KW/FT	POINT	KW/FT	NORMALIZED KW/FT	MAX KW/FT
1	3.270206	0.586537	0.747835	30	6.024550	1.080550	1.259920
2	2.599732	0.466282	0.593344	31	6.082475	1.090940	1.265490
3	3.027983	0.543092	0.690270	32	6.126327	1.098804	1.269118
4	3.606850	0.646917	0.820290	33	6.151453	1.103311	1.268806
5	3.987489	0.715187	0.905427	34	6.166463	1.106003	1.267479
6	4.117196	0.738451	0.933033	35	6.160744	1.104978	1.257463
7	4.581660	0.821757	1.035824	36	6.065828	1.087954	1.233739
8	5.052581	0.906220	1.140023	37	5.646924	1.012819	1.140433
9	5.298838	0.950388	1.190455	38	5.729697	1.027666	1.153041
10	5.475277	0.982034	1.229309	39	6.067897	1.088325	1.214569
11	5.607766	1.005796	1.256742	40	6.226561	1.116782	1.239628
12	5.610448	1.006277	1.252814	41	6.297521	1.129509	1.244718
13	5.591072	1.002802	1.243474	42	6.354724	1.139770	1.253745
14	5.625491	1.008975	1.248505	43	6.396091	1.147188	1.252728
15	5.599462	1.004307	1.237806	44	6.420778	1.151616	1.252957
16	5.334146	0.956721	1.176766	45	6.417203	1.150975	1.245355
17	5.264725	0.944270	1.157201	46	6.365658	1.141730	1.226217
18	5.581188	1.001029	1.221254	47	6.096043	1.093372	1.169361
19	5.765051	1.034007	1.258385	48	5.848459	1.048974	1.115059
20	5.829496	1.045566	1.269316	49	6.086032	1.091573	1.153251
21	5.873118	1.053390	1.274600	50	6.310169	1.131778	1.190629
22	5.899412	1.058177	1.275103	51	6.294374	1.128945	1.180876
23	5.919674	1.061775	1.274130	52	6.182399	1.108861	1.152659
24	5.924845	1.062667	1.270948	53	5.966898	1.070210	1.105526
25	5.898961	1.058024	1.259048	54	5.615596	1.007200	1.035401
26	5.714919	1.025015	1.215667	55	5.073746	0.910016	0.928216
27	5.417533	0.971677	1.145578	56	4.286616	0.768838	0.780370
28	5.673871	1.017653	1.196758	57	3.171004	0.568744	0.614244
29	5.942388	1.065813	1.247000				

PEAK ROD ENTHALPY RISE HBR2 MAP119 9/28/73 POS 180 1KLOCAL 3KTHIMBLE

	R	P	N	M	L	K	J	H	G	F	E	D	C	B	A	
1							1.207.	1.377.	1.207.							1
2					1.215.	1.365.	1.457.	1.102.	1.457.	1.365.	1.215.					2
3				1.180.	1.418.	1.041.	1.000.	1.168.	1.000.	1.041.	1.418.	1.180.				3
4			1.205.	1.093.	1.019.	1.268.	1.024.	1.112.	1.024.	1.268.	1.019.	1.093.	1.205.			4
5		1.199.	1.408.	1.030.	1.199.	1.063.	1.139.	0.969.	1.139.	1.063.	1.199.	1.030.	1.408.	1.199.		5
6		1.348.	1.053.	1.277.	1.057.	1.262.	1.194.	1.187.	1.194.	1.262.	1.057.	1.277.	1.053.	1.348.		6
7	1.155.	1.445.	1.025.	1.032.	1.128.	1.180.	1.170.	0.940.	1.170.	1.180.	1.128.	1.032.	1.025.	1.445.	1.155.	7
8	1.218.	1.084.	1.275.	1.139.	0.961.	1.182.	0.930.	0.982.	0.930.	1.182.	0.961.	1.139.	1.275.	1.084.	1.218.	8
9	1.155.	1.445.	1.025.	1.032.	1.128.	1.180.	1.170.	0.940.	1.170.	1.180.	1.128.	1.032.	1.025.	1.445.	1.155.	9
10		1.348.	1.053.	1.277.	1.057.	1.262.	1.194.	1.187.	1.194.	1.262.	1.057.	1.277.	1.053.	1.348.		10
11		1.199.	1.408.	1.030.	1.199.	1.063.	1.139.	0.969.	1.139.	1.063.	1.199.	1.030.	1.408.	1.199.		11
12			1.205.	1.093.	1.019.	1.268.	1.024.	1.112.	1.024.	1.268.	1.019.	1.093.	1.205.			12
13				1.180.	1.418.	1.041.	1.000.	1.168.	1.000.	1.041.	1.418.	1.180.				13
14					1.215.	1.365.	1.457.	1.102.	1.457.	1.365.	1.215.					14
15							1.207.	1.377.	1.207.							15
	R	P	N	M	L	K	J	H	G	F	E	D	C	B	A	

HBR2 MAP119 9/28/73 PJS 180 1KLOCAL 3KTHIMBLE

SUMMARY OF KEY PERFORMANCE PARAMETERS

MAXIMUM PEAK KW/FT OF 9.95 OCCURRED IN ASSEMBLY 6 LOCATED AT J 2
PEAK KW/FT IN REGION 1 OF 7.08 OCCURRED IN ASSEMBLY 79 AT LOCATION H 8
PEAK KW/FT IN REGION 2 OF 7.53 OCCURRED IN ASSEMBLY 7 AT LOCATION H 2
PEAK KW/FT IN REGION 3 OF 8.61 OCCURRED IN ASSEMBLY 74 AT LOCATION N 8
PEAK KW/FT IN REGION 4 OF 9.95 OCCURRED IN ASSEMBLY 6 AT LOCATION J 2

MAXIMUM AXIAL PEAKING FACTOR OF 1.26 OCCURRED IN ASSEMBLY 79 LOCATED AT H 8
MAXIMUM AXIAL PEAKINGFACTOR IN REGION 1 OF 1.26 OCCURRED IN ASSEMBLY 79 LOCATED AT H 8
MAXIMUM AXIAL PEAKINGFACTOR IN REGION 2 OF 1.19 OCCURRED IN ASSEMBLY 151 LOCATED AT H14
MAXIMUM AXIAL PEAKINGFACTOR IN REGION 3 OF 1.25 OCCURRED IN ASSEMBLY 133 LOCATED AT H12
MAXIMUM AXIAL PEAKINGFACTOR IN REGION 4 OF 1.24 OCCURRED IN ASSEMBLY 156 LOCATED AT H15

MAXIMUM RADIAL PEAKING FACTOR OF 1.27 OCCURRED IN ASSEMBLY 6 LOCATED AT J 2
MAXIMUM RADIAL PEAKING FACTOR IN REGION 1 OF 0.90 OCCURRED IN ASSEMBLY 79 LOCATED AT H 8
MAXIMUM RADIAL PEAKING FACTOR IN REGION 2 OF 0.99 OCCURRED IN ASSEMBLY 123 LOCATED AT F11
MAXIMUM RADIAL PEAKING FACTOR IN REGION 3 OF 1.16 OCCURRED IN ASSEMBLY 110 LOCATED AT F10
MAXIMUM RADIAL PEAKING FACTOR IN REGION 4 OF 1.27 OCCURRED IN ASSEMBLY 152 LOCATED AT G14

AVERAGE AXIAL OFFSET (PERCENT) -7.23

MAXIMUM GROSS PEAKING (FQN) FACTOR OF 1.73 OCCURRED IN ASSEMBLY 6 LOCATED AT J 2
MAXIMUM GROSS PEAKING FACTOR IN REGION 1 OF 1.23 OCCURRED IN ASSEMBLY 79 LOCATED AT H 8
MAXIMUM GROSS PEAKING FACTOR IN REGION 2 OF 1.31 OCCURRED IN ASSEMBLY 151 LOCATED AT H14
MAXIMUM GROSS PEAKING FACTOR IN REGION 3 OF 1.50 OCCURRED IN ASSEMBLY 84 LOCATED AT C 8
MAXIMUM GROSS PEAKING FACTOR IN REGION 4 OF 1.73 OCCURRED IN ASSEMBLY 152 LOCATED AT G14

CENTER ASSEMBLY AVERAGE POWER FRACTION 0.895
REGION 2 AVERAGE POWER FRACTION 0.936
REGION 3 AVERAGE POWER FRACTION 1.074
REGION 4 AVERAGE POWER FRACTION 0.955

END OF INCORE PDQ IBM VERSION 1 06-01-73