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Carolina Power & Light Company Raleigh, N. C. 27602 E. E. Utley	10-1-73	10-11-73	X			

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DESCRIPTION:
Ltr trans the following:

ENCLOSURES:
REPORT: Biweekly Rpt of Results of Incore Surveillance for the H. B. Robinson Unit No. 2, dtd 9-24-73.

(40 cys rec'd)

ACKNOWLEDGED

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

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FOR ACTION/INFORMATION 10-11-73 AB

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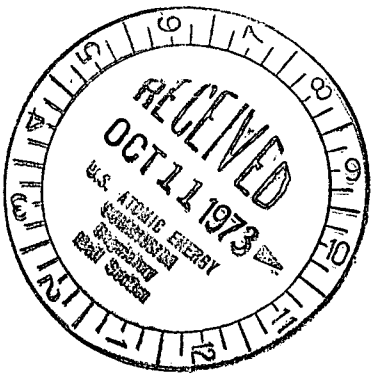
Regulatory File

CP&L

Carolina Power & Light Company

October 1, 1973

File: NG-3514 Serial: NG-73-444



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:

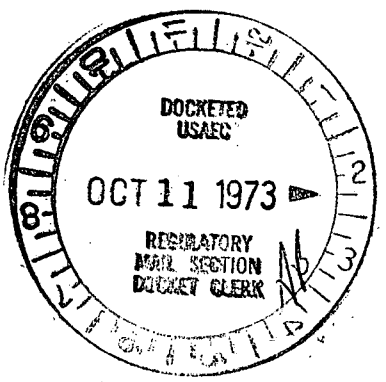
50-261

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 6 - 19, 1973.

Yours very truly,

E. E. Utley
Vice-President
Bulk Power Supply



DBW:mvp
Attachment

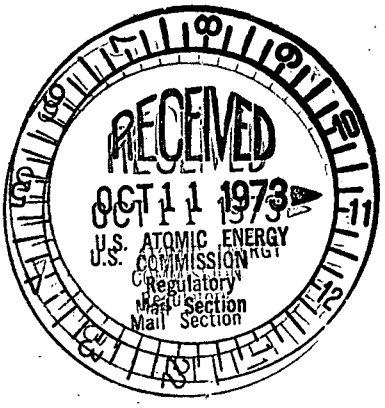
cc: Messrs. C. D. Barham
N. B. Bessac
T. E. Bowman
B. J. Furr
D. V. Menscer
D. B. Waters

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

7532

Regulatory File Cy.

Received w/Ltr Dated 10/1/73



H. B. ROBINSON STEAM ELECTRIC PLANT

UNIT NO. 2

SEPTEMBER 24, 1973

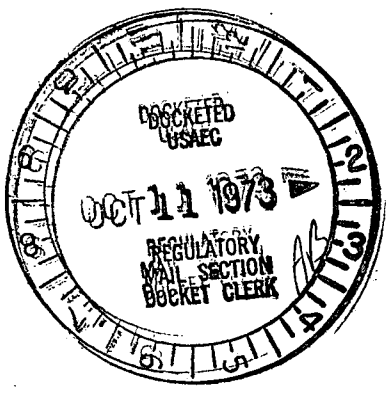
INCORE SURVEILLANCE DATA SUMMARY

Robinson File No. 2-A-7

Surveillance was performed on F_E S_E at approximately one to two hour intervals. The data was then graphed and a copy is attached to this report.

During this period, there was one manual trip of the reactor, (September 9), following a false indication on the generator output due to a blown fuse. Also, during the period, there were two valve tests, (September 9 and 16), and four outages on the APDMS for maintenance, (September 12, 13, 14, and 18).

This surveillance period was started during a recovery from a thirty percent load rejection on September 5. The oscillation shown was started by the load rejection and amplified by the valve test and the trip. Also, due to burnup in the bottom of the core, the equilibrium valve of F_E S_E tends to increase. The combination of the above has made full power operation increasing difficult.

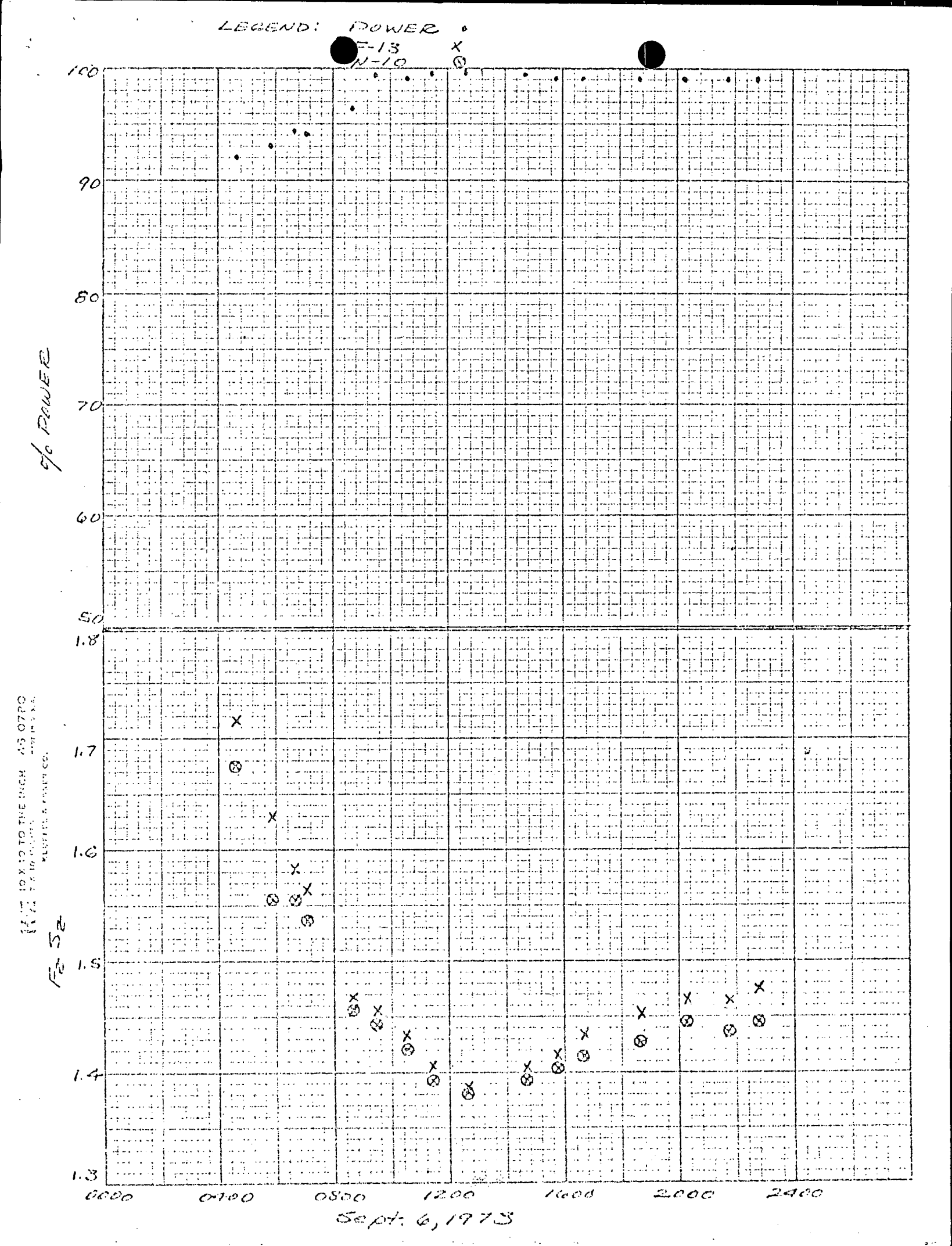


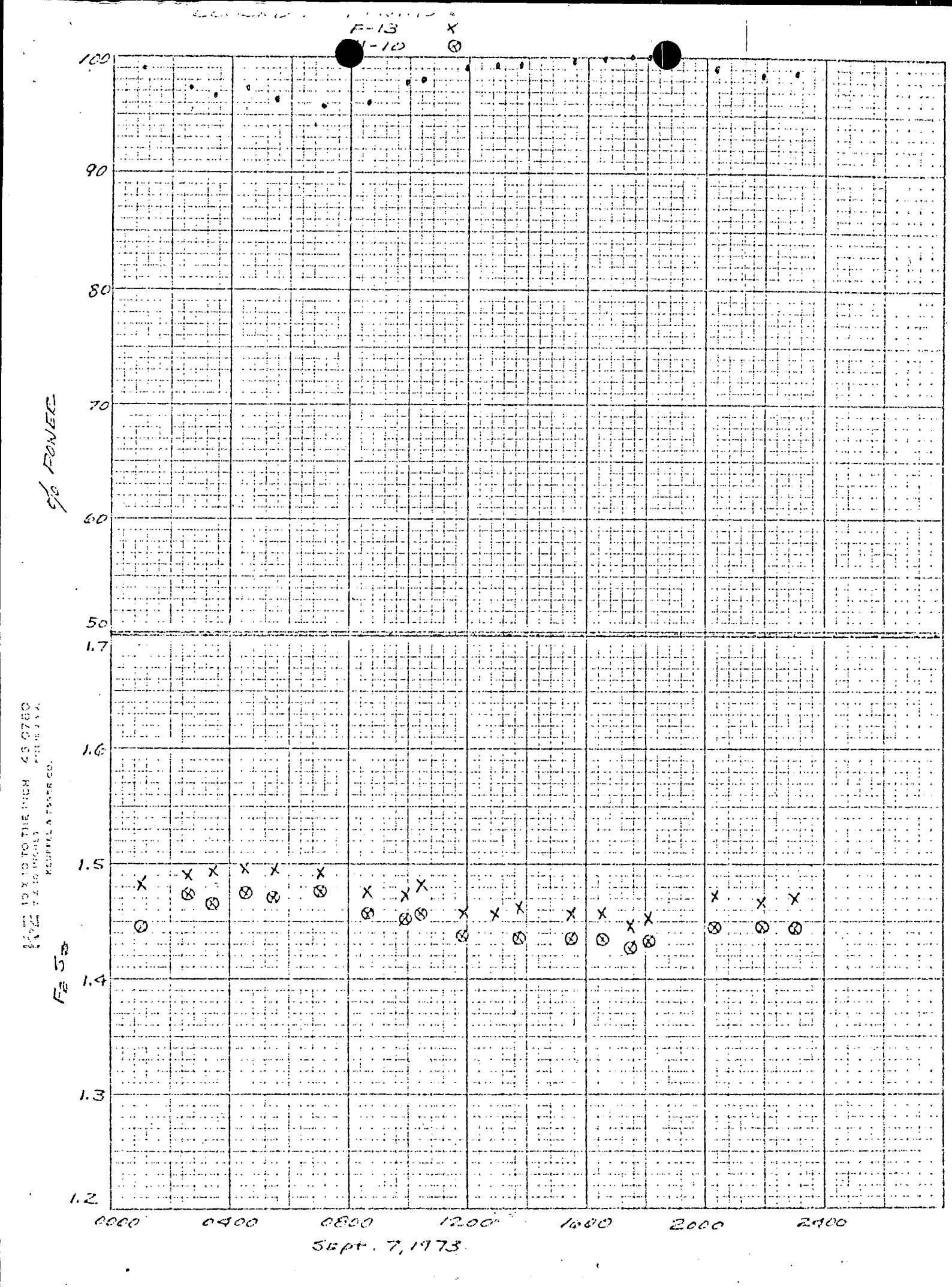
Compiled By: R. H. Chambers

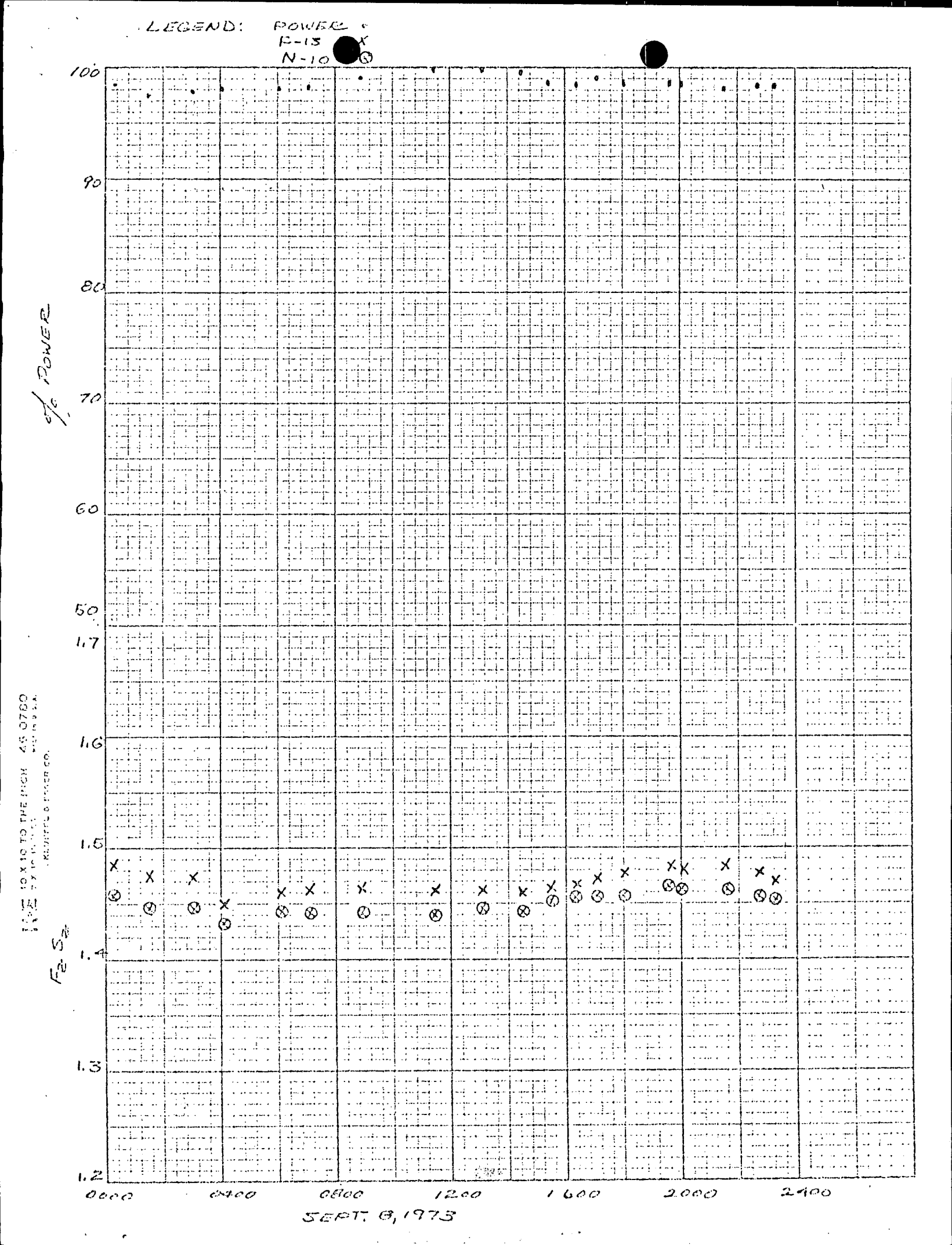
Approved By: Benny J. Furr

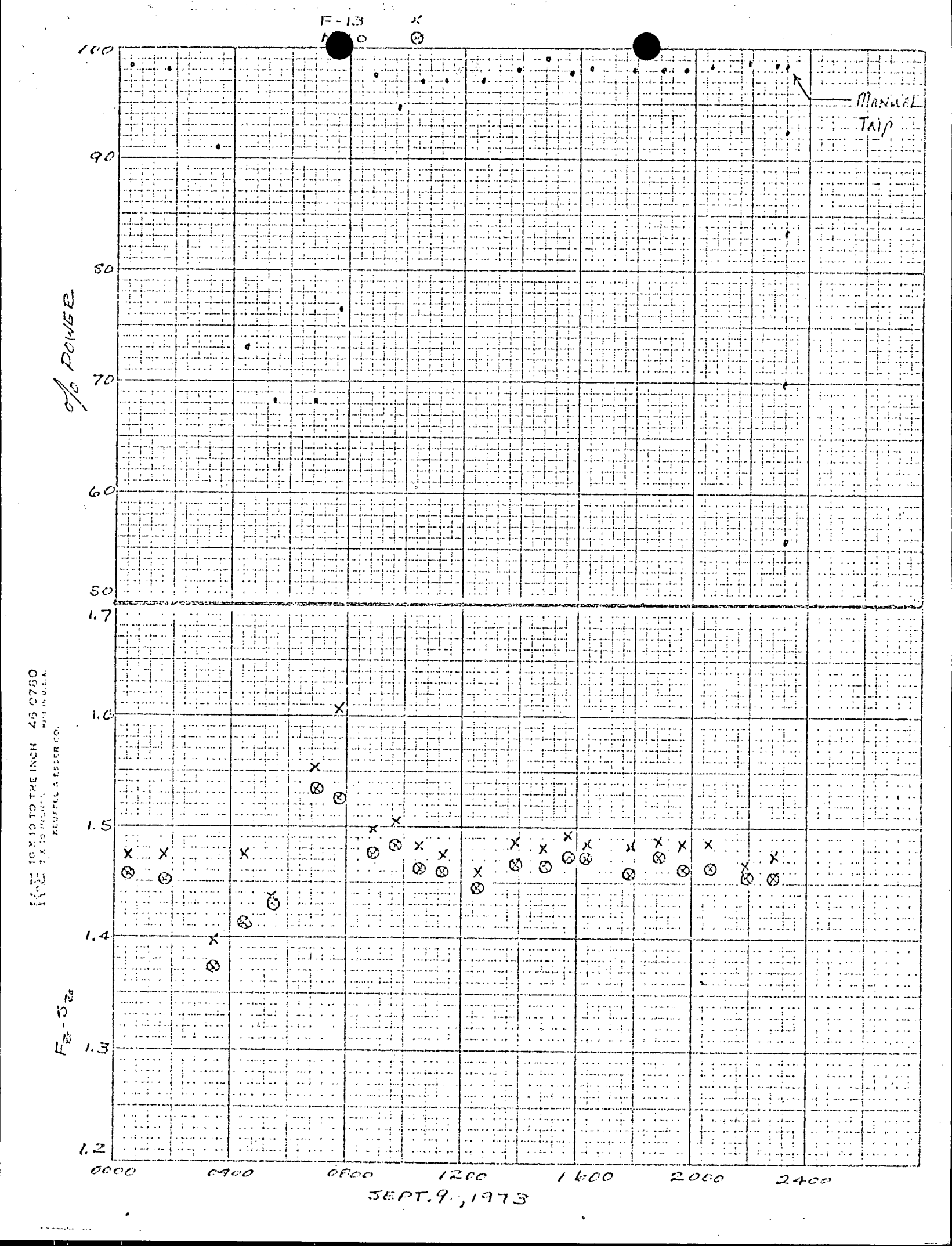
Attachment

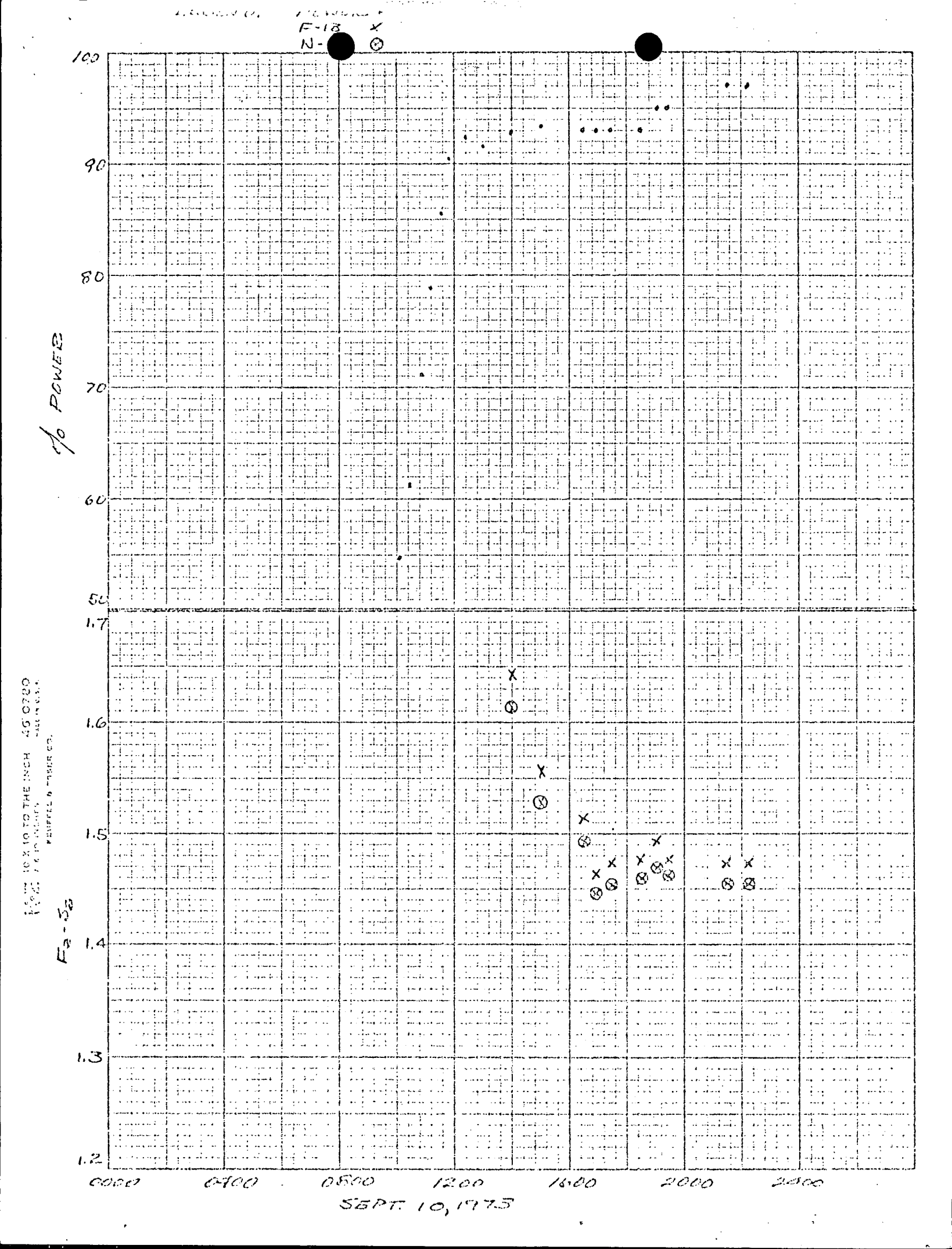
7532

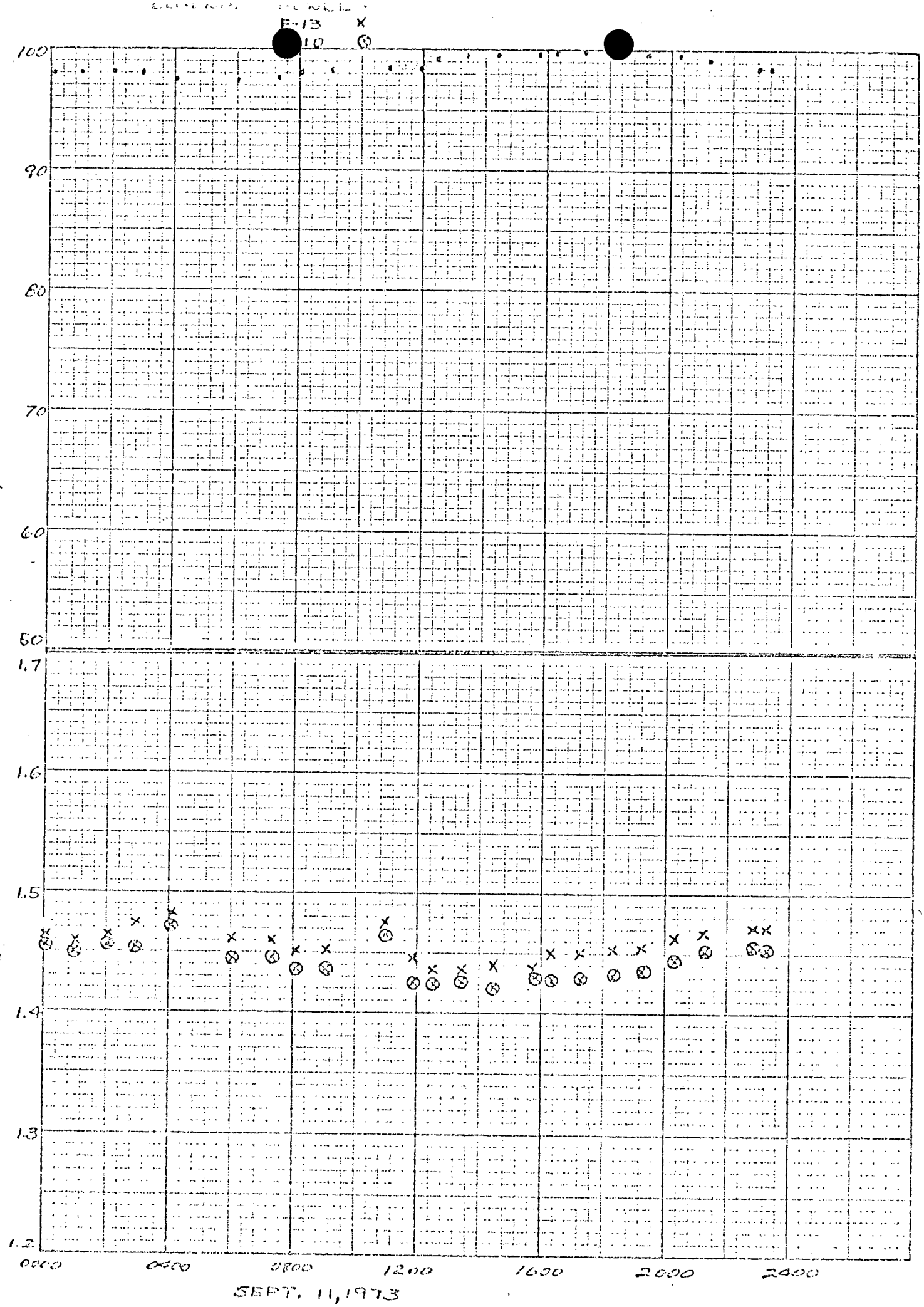

LEGEND: POWER •
F-13 X
N-10 ⊗
100
90
80
70
60
50
% POWER
1.8
1.7
1.6
1.5
1.4
1.3
F2 S2
0600
0700
0800
1200
1600
2000
2400
Sept. 6, 1973

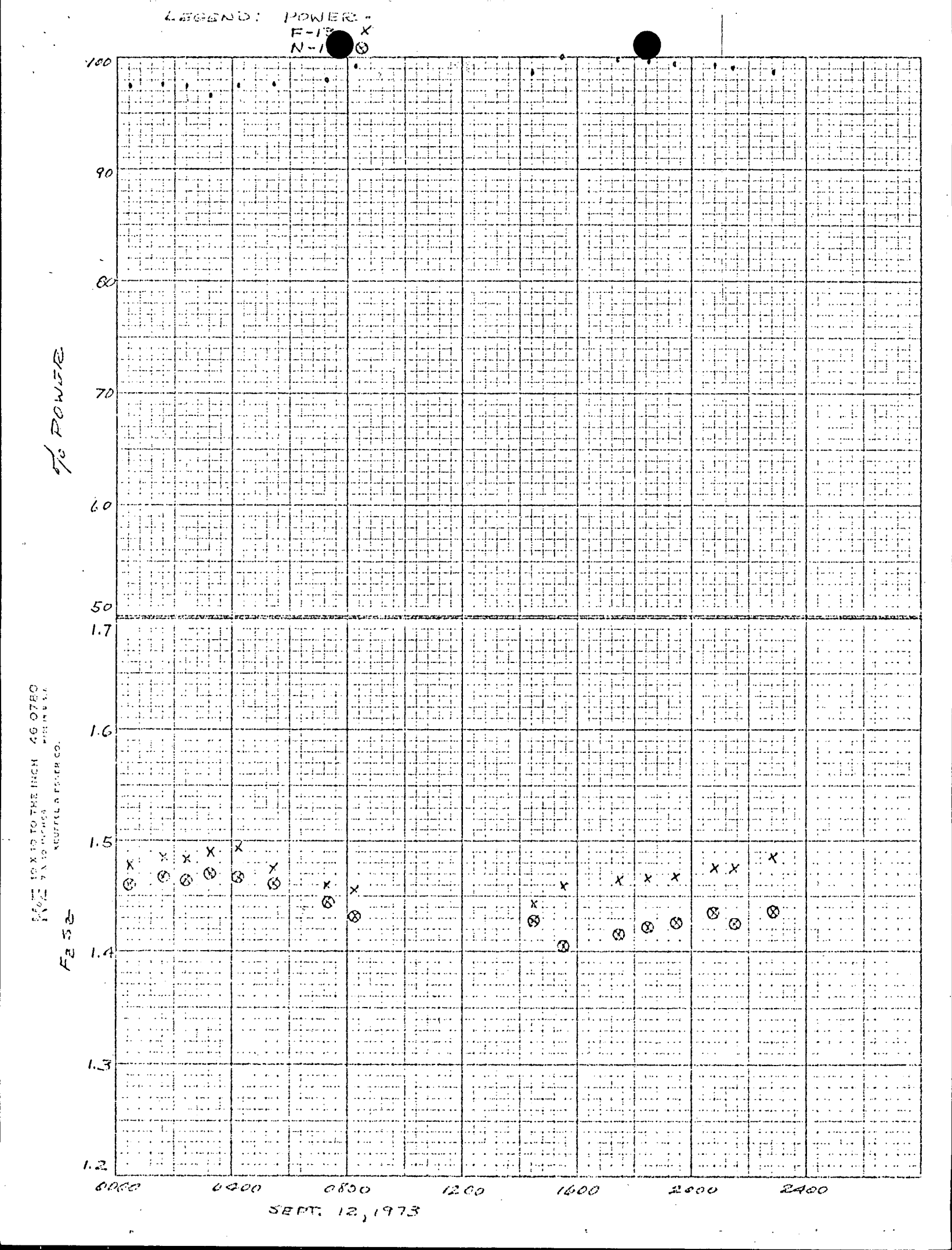

F-13 ×
M-10 ⊗
100
90
80
70
60
50
% POWER
1.7
1.6
1.5
1.4
1.3
1.2
F_Q F_Δ
0000
0400
0800
1200
1600
2000
2400
Sept. 7, 1973

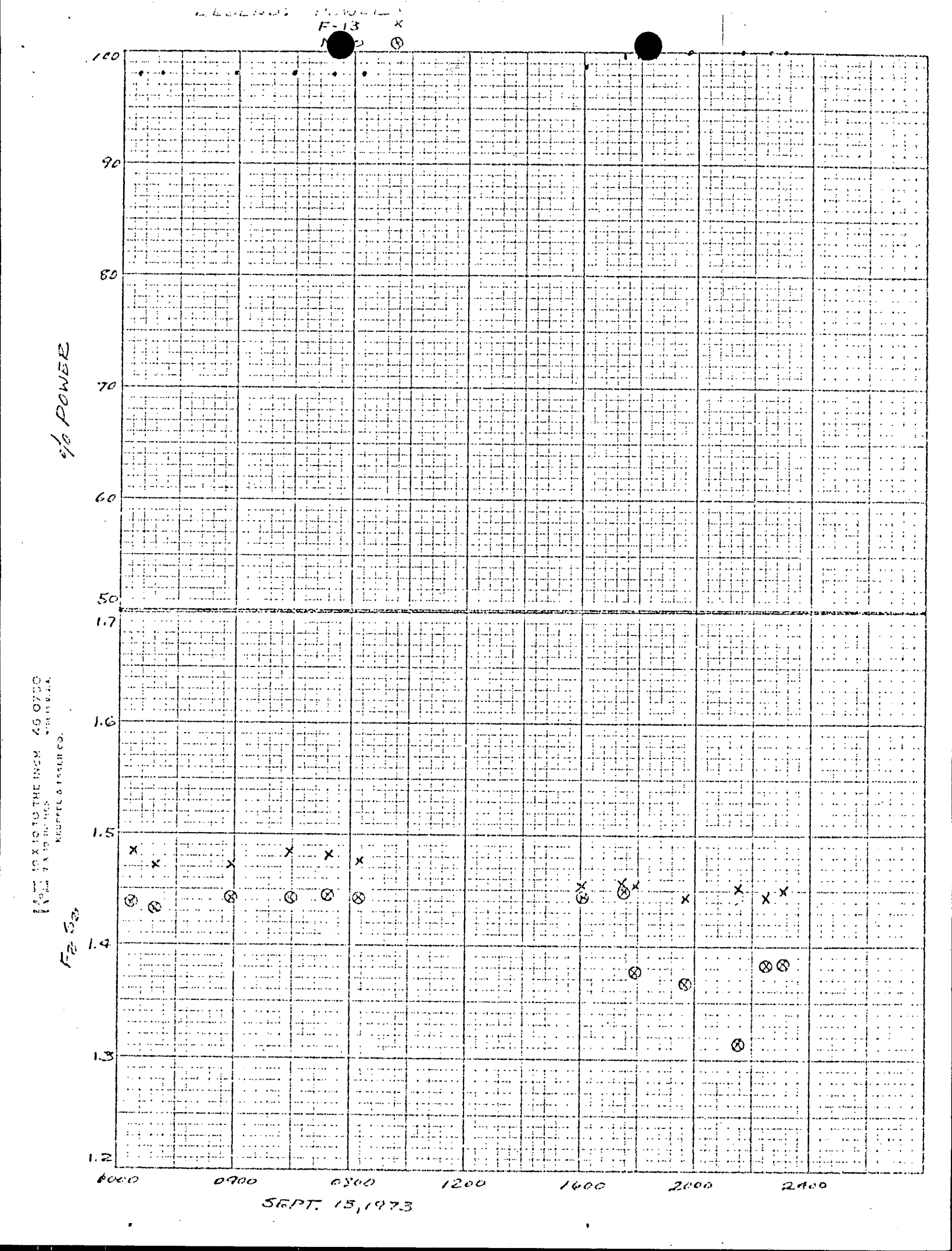

LEGEND: POWER %
F-15
N-10
100
90
80
70
60
50
% POWER
1.7
1.6
1.5
1.4
1.3
1.2
F_2 S_2
0000
0400
0800
1200
1600
2000
2400
SEPT. 8, 1973

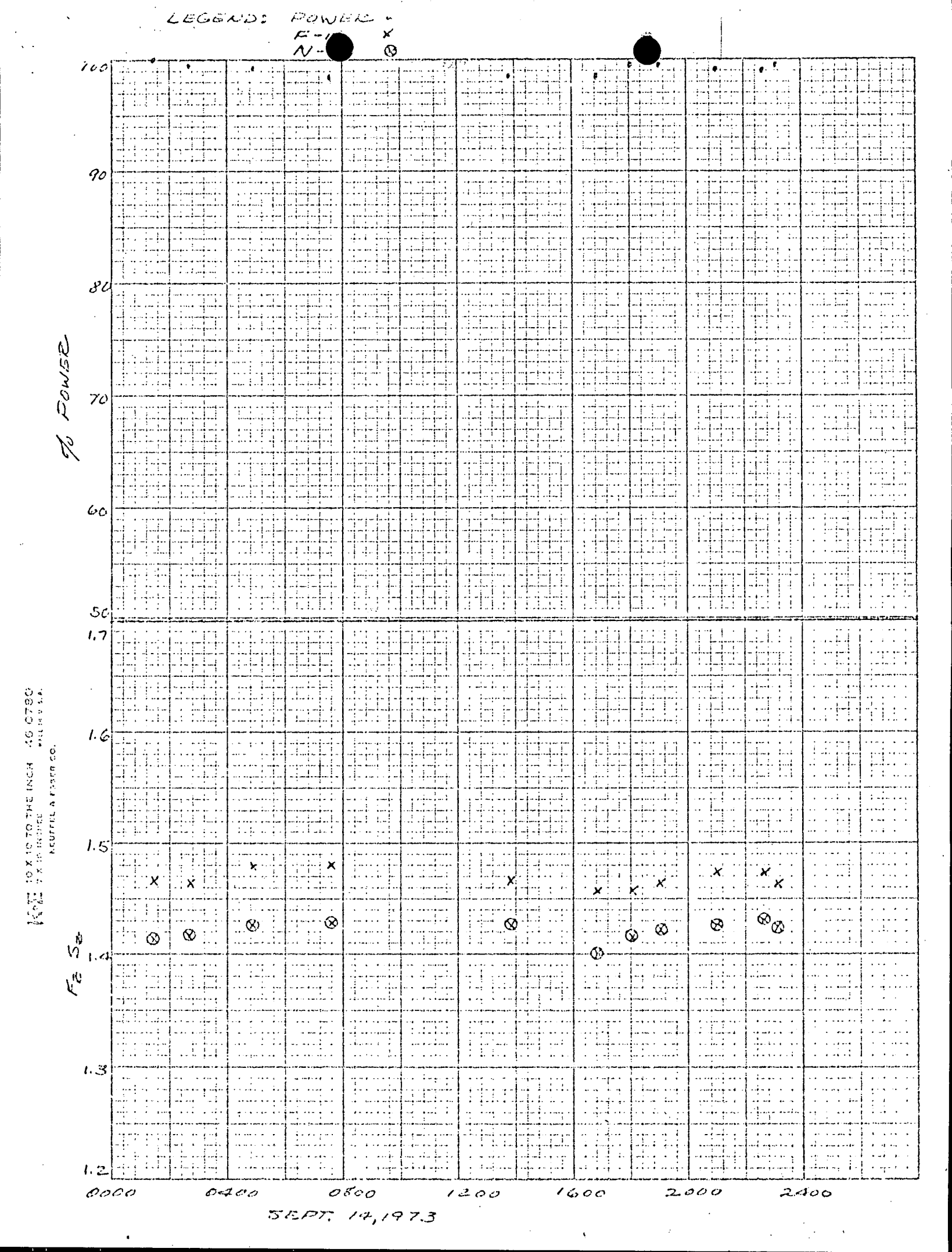

F-13
MANUAL TRIP
% POWER
100
90
80
70
60
50
1.7
1.6
1.5
1.4
1.3
1.2
$F_{\Delta H}$
0000
0400
0800
1200
1600
2000
2400
SEPT. 9, 1973

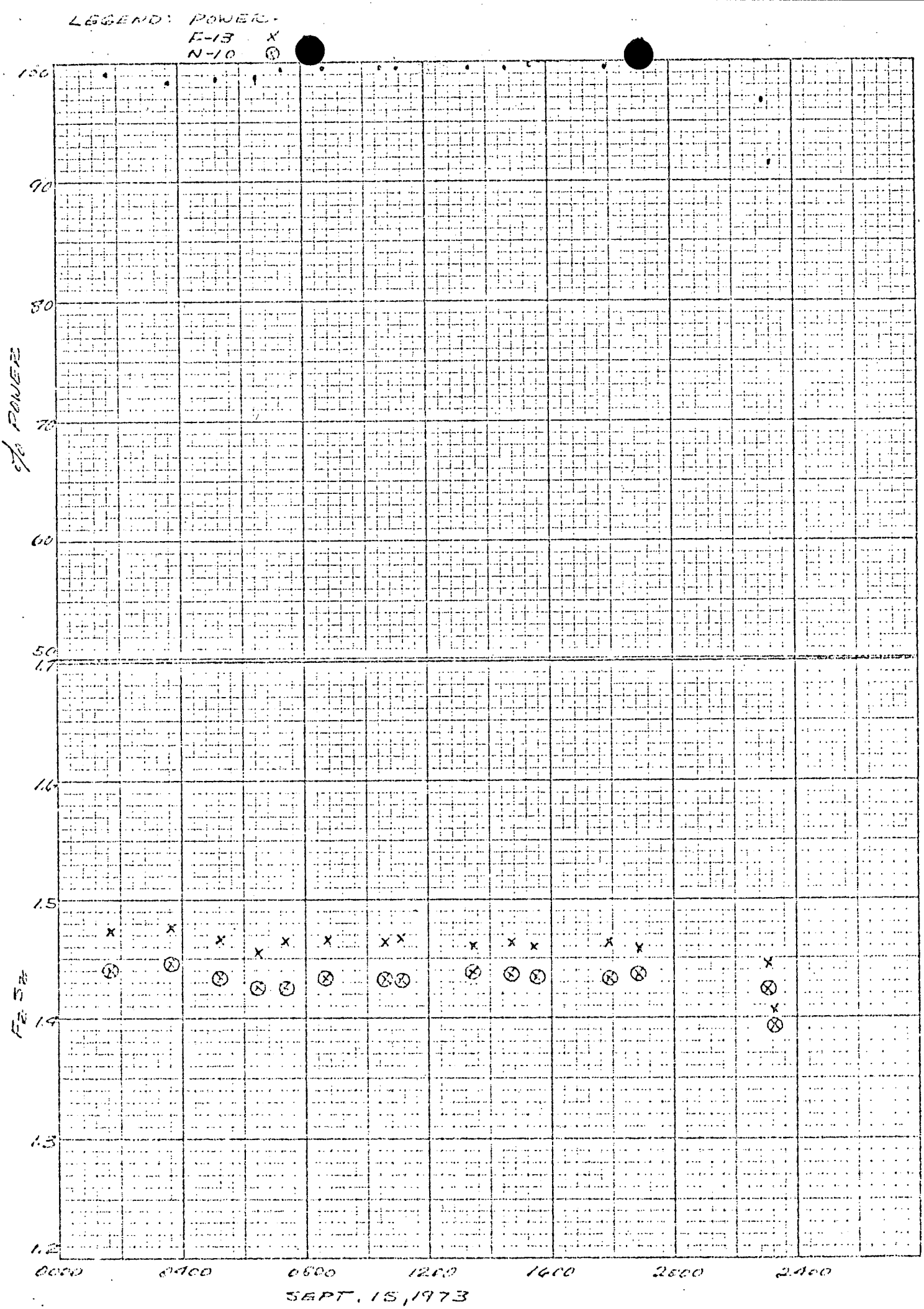

F-18 ×
N- ⊗
100
90
80
70
60
50
% POWER
1.7
1.6
1.5
1.4
1.3
1.2
$F_a - 5_2$
0000
0400
0500
1200
1600
2000
2400
SEPT. 10, 1975

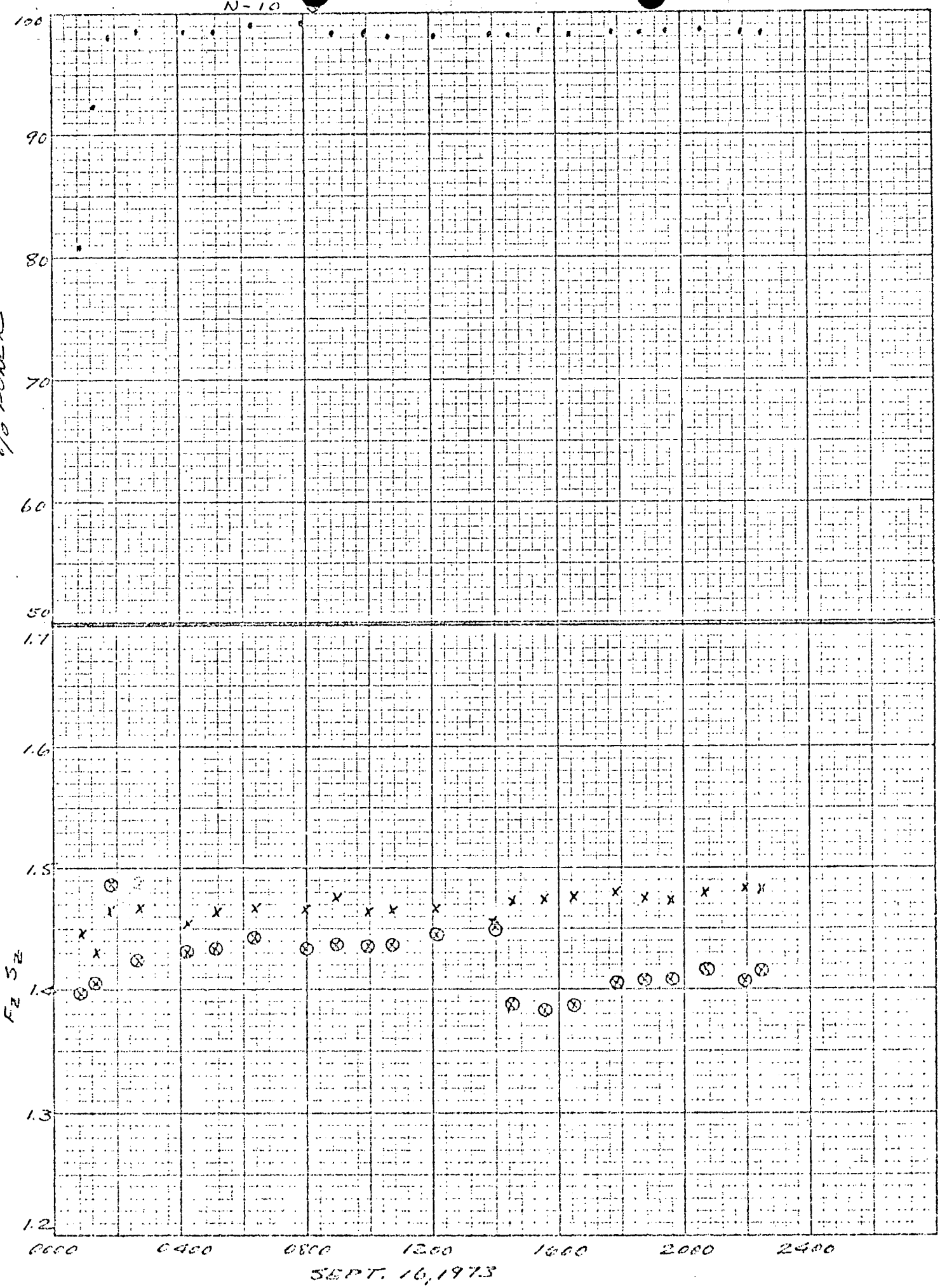

E-13
10
100
90
80
70
60
50
% POWER
1.7
1.6
1.5
1.4
1.3
1.2
$F_z - S_z$
0000
0400
0800
1200
1600
2000
2400
SEPT. 11, 1973

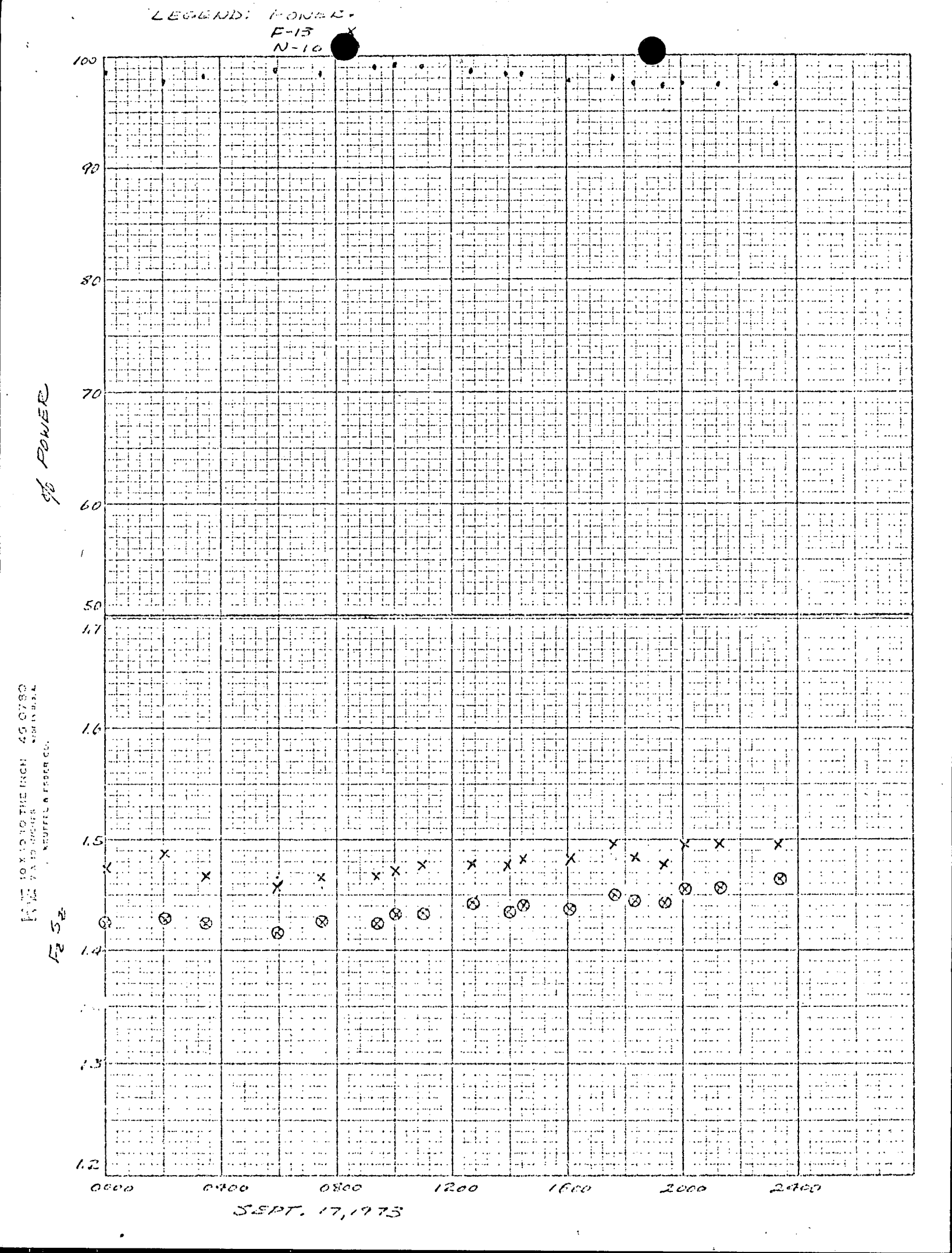

LEGEND: POWER -
F-12 X
N-1 ⊗
100
90
80
70
60
50
% POWER
1.7
1.6
1.5
1.4
1.3
1.2
F2 S2
0000
0400
0800
1200
1600
2000
2400
SEPT. 12, 1973

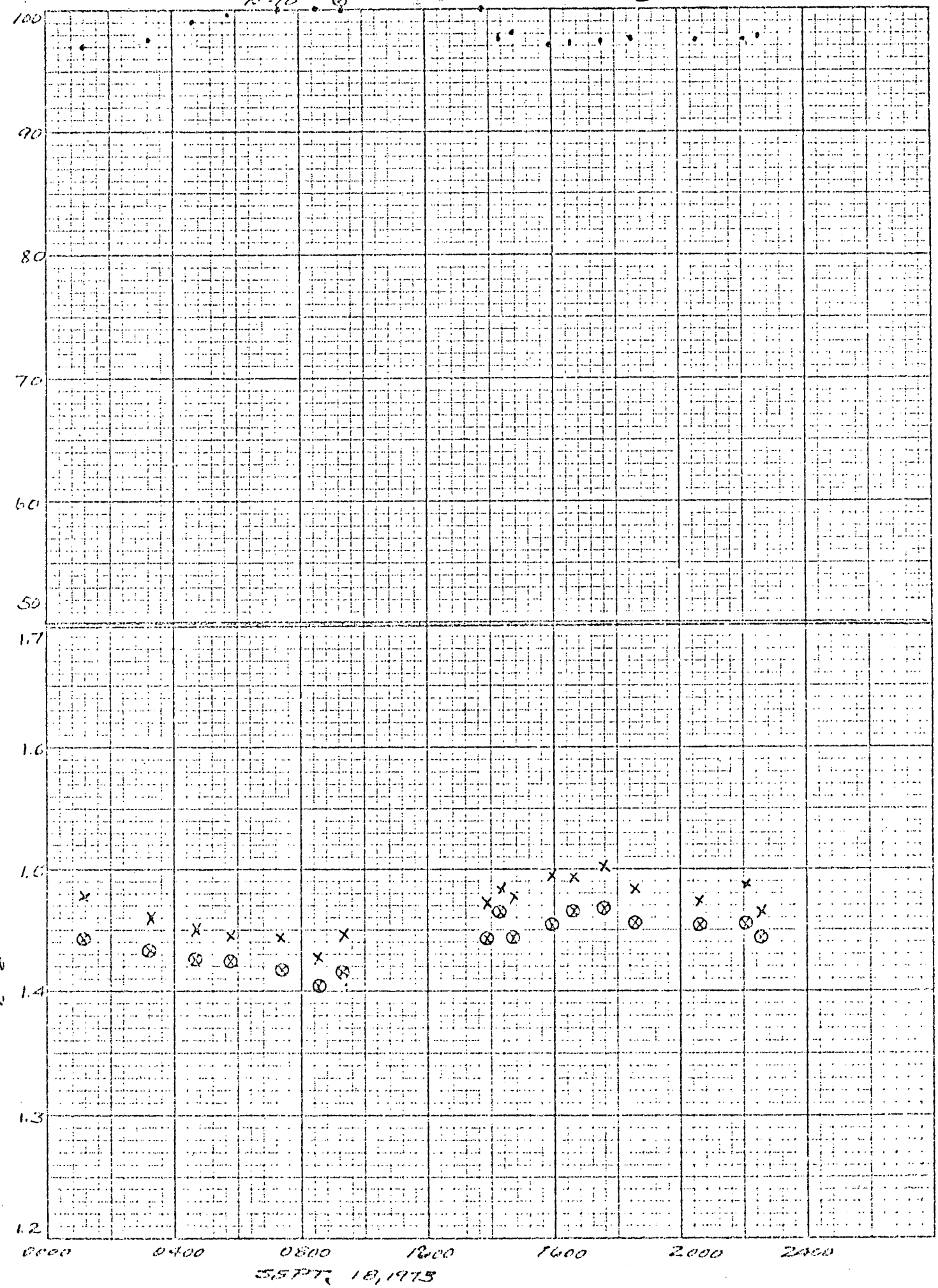

F-13
100
90
80
70
60
50
% POWER
1.7
1.6
1.5
1.4
1.3
1.2
$F_{\Delta H}$
0000
0900
0600
1200
1600
2000
2400
SEPT. 15, 1973

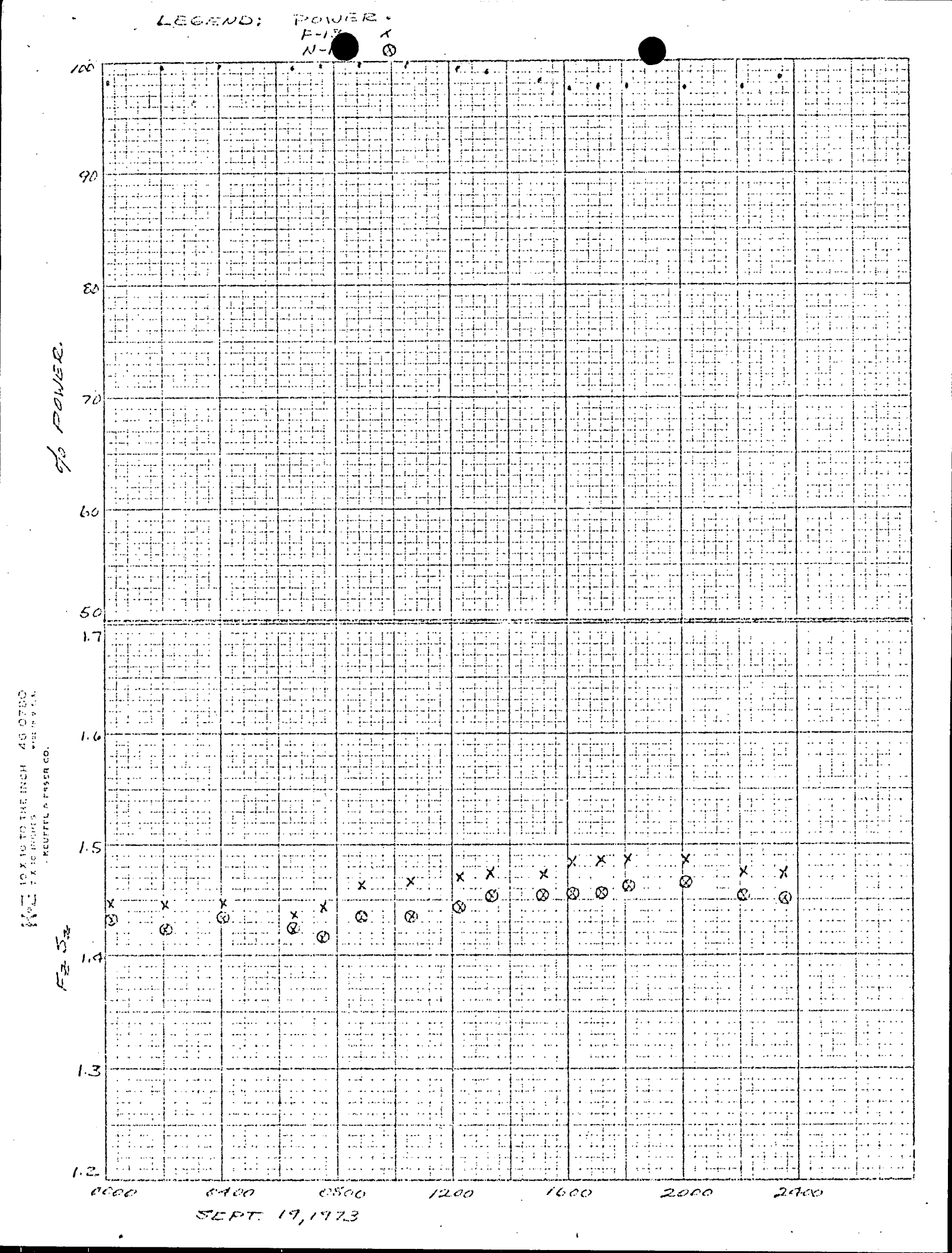

LEGEND: POWER -
F-
N-
100
90
80
70
60
50
% POWER
1.7
1.6
1.5
1.4
1.3
1.2
F_2 S_ϕ
0000
0400
0800
1200
1600
2000
2400
SEPT. 14, 1973
10 X 10 TO THE INCH 46 0780
7 X 10 INCHES
KEUFFEL & ESSER CO.


LEGEND: POWER
F-13 X
N-10 ⊗
% POWER
100
90
80
70
60
50
FZ 5#
1.7
1.6
1.5
1.4
1.3
1.2
0000
0400
0800
1200
1600
2000
2400
SEPT. 15, 1973




LEGEND: PONAR -
F-13 X
N-10
100
90
80
70
60
50
% POWER
1.7
1.6
1.5
1.4
1.3
1.2
Fz Sz
0000
0400
0800
1200
1600
2000
2400
SEPT. 17, 1973


LEGEND : POWER :
F-13 ×
N-10 ⊗
100
90
80
70
60
50
% POWER
1.7
1.6
1.5
1.4
1.3
1.2
F2 52
0000
0400
0800
1200
1600
2000
2400
SEPT 18, 1973


LEGEND: POWER
F-1
N-1
100
90
80
70
60
50
% POWER.
1.7
1.6
1.5
1.4
1.3
1.2
F3 5%
0000
0400
0800
1200
1600
2000
2400
SEPT. 19, 1973
10 X 10 TO THE INCH 46 0780
7 X 10 INCHES
KEUFFEL & ESSER CO.

AVG AXIAL CONDITIONS HBR2 CYCLE 2 MAP 116 1000EFPH LOCAL 3///EFPH THIMBLE DATA

VERAGE SOURCE PER FOOT = 0.141610E-17 AVERAGE KW/FT = 0.557545E 01 AVERAGE KW/SOURCE = 0.393717E 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	3.226301	0.578662	0.737794	30	6.032323	1.081944	1.261545
2	2.496861	0.447832	0.569865	31	6.089539	1.092206	1.266958
3	2.910460	0.522014	0.663480	32	6.136068	1.100552	1.271136
4	3.515164	0.630472	0.799439	33	6.165366	1.105806	1.271676
5	3.934762	0.705730	0.893454	34	6.180041	1.108438	1.270270
6	4.048670	0.726161	0.917503	35	6.175016	1.107537	1.260376
7	4.538969	0.814100	1.026172	36	6.078441	1.090216	1.236304
8	5.012462	0.899024	1.130972	37	5.655196	1.014303	1.142104
9	5.296700	0.950005	1.189975	38	5.797993	1.039915	1.166784
10	5.491015	0.984857	1.232842	39	6.135981	1.100535	1.228196
11	5.644451	1.012376	1.264962	40	6.253421	1.121599	1.244974
12	5.654852	1.014241	1.262730	41	6.331134	1.135538	1.251362
13	5.635213	1.010719	1.253291	42	6.384897	1.145181	1.259698
14	5.669851	1.016932	1.258349	43	6.428984	1.153089	1.259171
15	5.653217	1.013948	1.249690	44	6.450397	1.156929	1.258738
16	5.386593	0.966128	1.188336	45	6.442924	1.155588	1.250345
17	5.274780	0.946073	1.159411	46	6.393556	1.146734	1.231591
18	5.605401	1.005372	1.226553	47	6.092010	1.092649	1.168588
19	5.770152	1.034922	1.259499	48	5.830819	1.045803	1.111688
20	5.842762	1.047945	1.272204	49	6.170760	1.106773	1.169305
21	5.882965	1.055156	1.276737	50	6.320752	1.133676	1.192625
22	5.911442	1.060263	1.277616	51	6.285757	1.127399	1.179258
23	5.930289	1.063643	1.276371	52	6.157680	1.104427	1.148051
24	5.931298	1.063825	1.272333	53	5.915401	1.060973	1.095984
25	5.912045	1.060371	1.261841	54	5.535559	0.992846	1.020645
26	5.725989	1.027000	1.218022	55	4.980487	0.893289	0.911155
27	5.444881	0.976582	1.152366	56	4.166569	0.747307	0.758516
28	5.712638	1.024606	1.204935	57	3.109183	0.557656	0.602269
29	5.941602	1.065673	1.246836				

PEAK ROD ENTHALPY RISE HBR2 CYCLE 2 MAP 116 1000EFPH LOCAL 3///EFPH THIMBLE DATA

R	P	N	M	L	K	J	H	G	F	E	D	C	B	A	
						1.164.	1.214.	1.164.							1
					1.211.	1.361.	1.438.	1.074.	1.438.	1.361.	1.211.				2
				1.174.	1.414.	1.040.	1.007.	1.198.	1.007.	1.040.	1.414.	1.174.			3
			1.195.	1.085.	1.024.	1.266.	1.031.	1.121.	1.031.	1.266.	1.024.	1.085.	1.195.		4
		1.211.	1.435.	1.033.	1.196.	1.070.	1.154.	0.972.	1.154.	1.070.	1.196.	1.033.	1.435.	1.211.	5
		1.375.	1.083.	1.284.	1.049.	1.263.	1.210.	1.189.	1.210.	1.263.	1.049.	1.284.	1.083.	1.375.	6
	1.148.	1.463.	1.030.	1.030.	1.126.	1.170.	1.164.	0.939.	1.164.	1.170.	1.126.	1.030.	1.030.	1.463.	1.148. 7
	1.200.	1.107.	1.276.	1.135.	0.957.	1.177.	0.923.	0.972.	0.923.	1.177.	0.957.	1.135.	1.276.	1.107.	1.200. 8
	1.148.	1.463.	1.030.	1.030.	1.126.	1.170.	1.164.	0.939.	1.164.	1.170.	1.126.	1.030.	1.030.	1.463.	1.148. 9
		1.375.	1.083.	1.284.	1.049.	1.263.	1.210.	1.189.	1.210.	1.263.	1.049.	1.284.	1.083.	1.375.	10
		1.211.	1.435.	1.033.	1.196.	1.070.	1.154.	0.972.	1.154.	1.070.	1.196.	1.033.	1.435.	1.211.	11
			1.195.	1.085.	1.024.	1.266.	1.031.	1.121.	1.031.	1.266.	1.024.	1.085.	1.195.		12
				1.174.	1.414.	1.040.	1.007.	1.198.	1.007.	1.040.	1.414.	1.174.			13
					1.211.	1.361.	1.438.	1.074.	1.438.	1.361.	1.211.				14
						1.164.	1.214.	1.164.							15
R	P	N	M	L	K	J	H	G	F	E	D	C	B	A	

H3R2 CYCLE 2 MAP 116 1000EFPH LOCAL 3000EFPH THIMBLE DATA 3rd run

SUMMARY OF KEY PERFORMANCE PARAMETERS

MAXIMUM PEAK KW/FT OF 10.00 OCCURRED IN ASSEMBLY 58 LOCATED AT P 7
PEAK KW/FT IN REGION 1 OF 7.01 OCCURRED IN ASSEMBLY 79 AT LOCATION H 8
PEAK KW/FT IN REGION 2 OF 7.55 OCCURRED IN ASSEMBLY 73 AT LOCATION P 8
PEAK KW/FT IN REGION 3 OF 8.68 OCCURRED IN ASSEMBLY 74 AT LOCATION N 8
PEAK KW/FT IN REGION 4 OF 10.00 OCCURRED IN ASSEMBLY 58 AT LOCATION P 7

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 1.24 OCCURRED IN ASSEMBLY 133 LOCATED AT H12
MAXIMUM AXIAL PEAKINGFACTOR IN REGION 4 OF 1.23 OCCURRED IN ASSEMBLY 156 LOCATED AT H15

MAXIMUM RADIAL PEAKING FACTOR OF 1.27 OCCURRED IN ASSEMBLY 58 LOCATED AT P 7
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 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 100 LOCATED AT B 9

AVERAGE AXIAL OFFSET (PERCENT) -7.28

MAXIMUM GROSS PEAKING (FQN) FACTOR OF 1.74 OCCURRED IN ASSEMBLY 58 LOCATED AT P 7
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 85 LOCATED AT B 8
MAXIMUM GROSS PEAKING FACTOR IN REGION 3 OF 1.51 OCCURRED IN ASSEMBLY 84 LOCATED AT C 8
MAXIMUM GROSS PEAKING FACTOR IN REGION 4 OF 1.74 OCCURRED IN ASSEMBLY 100 LOCATED AT B 9

CENTER ASSEMBLY AVERAGE POWER FRACTION 0.886
REGION 2 AVERAGE POWER FRACTION 0.939
REGION 3 AVERAGE POWER FRACTION 1.076
REGION 4 AVERAGE POWER FRACTION 0.951

OF INCORE RUN IBM VERSION 1 06-01-73

AVG AXIAL CONDITIONS H3R2 CYC2 MAP117 1KLOCAL 3KTHIMBLE 9-14-73 POS 181

AVERAGE SOURCE PER FOOT = 0.148603E-17 AVERAGE KW/FT = 0.557545E 01 AVERAGE KW/SOURCE = 0.375192E 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	3.199475	0.572237	0.729602	30	5.945730	1.066413	1.243437
2	2.565415	0.460127	0.585512	31	5.999640	1.076082	1.248255
3	2.925596	0.524729	0.666930	32	6.041116	1.083521	1.251466
4	3.520966	0.631513	0.800758	33	6.073634	1.089354	1.252756
5	3.917130	0.702568	0.889451	34	6.087903	1.091912	1.251331
6	4.011242	0.719448	0.909022	35	6.079970	1.090490	1.240977
7	4.474411	0.802521	1.011577	36	6.005829	1.077192	1.221536
8	4.952814	0.888326	1.117513	37	5.625167	1.008918	1.136041
9	5.211153	0.934661	1.170755	38	5.621686	1.008293	1.131304
10	5.389721	0.966589	1.210100	39	5.992953	1.074883	1.199568
11	5.524789	0.990914	1.238146	40	6.143351	1.101857	1.223061
12	5.534414	0.992641	1.235837	41	6.210644	1.113927	1.227546
13	5.514073	0.989989	1.227462	42	6.263070	1.123330	1.235662
14	5.559693	0.997175	1.233902	43	6.302471	1.130397	1.234392
15	5.550317	0.995493	1.226944	44	6.330938	1.135503	1.235426
16	5.316705	0.953593	1.172918	45	6.329097	1.135173	1.228256
17	5.152899	0.924213	1.132622	46	6.284455	1.127166	1.210575
18	5.503789	0.987148	1.204319	47	6.057375	1.086437	1.161944
19	5.690912	1.020709	1.242202	48	5.736554	1.028895	1.093715
20	5.754201	1.032061	1.252921	49	5.976836	1.071992	1.132559
21	5.801531	1.040549	1.259063	50	6.195434	1.111199	1.168981
22	5.825962	1.044931	1.259142	51	6.177713	1.108021	1.158989
23	5.844981	1.048343	1.258011	52	6.057645	1.086486	1.129401
24	5.852713	1.049729	1.255475	53	5.826973	1.045113	1.079601
25	5.830612	1.045765	1.244460	54	5.461761	0.979610	1.007038
26	5.635915	1.019813	1.209497	55	4.925494	0.883426	0.901094
27	5.333891	0.956675	1.128876	56	4.185402	0.750685	0.761944
28	5.572204	0.999418	1.175315	57	3.163085	0.567324	0.612710
29	5.860924	1.051202	1.229905				

PEAK ROD ENTHALPY RISE HBR2 CYC2 MAP117 1KLOCAL 3KTHIMBLE 9-14-73 POS 181

	R	P	N	M	L	K	J	H	G	F	E	D	C	B	A	
1							1.162.	1.270.	1.162.							1
2						1.161.	1.326.	1.448.	1.148.	1.448.	1.326.	1.161.				2
3					1.150.	1.399.	1.034.	1.132.	1.292.	1.132.	1.034.	1.399.	1.150.			3
4				1.165.	1.153.	1.011.	1.297.	1.030.	1.112.	1.030.	1.297.	1.011.	1.153.	1.165.		4
5			1.340.	1.394.	0.994.	1.181.	1.022.	1.095.	0.944.	1.095.	1.022.	1.181.	0.994.	1.394.	1.340.	5
6			1.333.	1.014.	1.208.	0.995.	1.194.	1.141.	1.305.	1.141.	1.194.	0.995.	1.208.	1.014.	1.333.	6
7		1.086.	1.377.	0.969.	0.983.	1.098.	1.133.	1.121.	0.942.	1.121.	1.133.	1.098.	0.983.	0.969.	1.377.	1.086.	7
8		1.129.	1.022.	1.207.	1.110.	1.018.	1.255.	0.914.	0.927.	0.914.	1.255.	1.018.	1.110.	1.207.	1.022.	1.129.	8
9		1.086.	1.377.	0.969.	0.983.	1.098.	1.133.	1.121.	0.942.	1.121.	1.133.	1.098.	0.983.	0.969.	1.377.	1.086.	9
10			1.333.	1.014.	1.208.	0.995.	1.194.	1.141.	1.305.	1.141.	1.194.	0.995.	1.208.	1.014.	1.333.	10
11			1.340.	1.394.	0.994.	1.181.	1.022.	1.095.	0.944.	1.095.	1.022.	1.181.	0.994.	1.394.	1.340.	11
12				1.165.	1.153.	1.011.	1.297.	1.030.	1.112.	1.030.	1.297.	1.011.	1.153.	1.165.		12
13					1.150.	1.399.	1.034.	1.132.	1.292.	1.132.	1.034.	1.399.	1.150.			13
14						1.161.	1.326.	1.448.	1.148.	1.448.	1.326.	1.161.				14
15							1.162.	1.270.	1.162.							15
	R	P	N	M	L	K	J	H	G	F	E	D	C	B	A	

HBR2 CYC2 MAP117 1KLOCAL 3KTHIMBLE 9-14-73 POS 181

SUMMARY OF KEY PERFORMANCE PARAMETERS

MAXIMUM PEAK KW/FT OF 9.88 OCCURRED IN ASSEMBLY 6 LOCATED AT J 2
PEAK KW/FT IN REGION 1 OF 6.67 OCCURRED IN ASSEMBLY 79 AT LOCATION H 8
PEAK KW/FT IN REGION 2 OF 7.79 OCCURRED IN ASSEMBLY 7 AT LOCATION H 2
PEAK KW/FT IN REGION 3 OF 8.74 OCCURRED IN ASSEMBLY 15 AT LOCATION H 3
PEAK KW/FT IN REGION 4 OF 9.88 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 85 LOCATED AT B 8
MAXIMUM AXIAL PEAKINGFACTOR IN REGION 3 OF 1.25 OCCURRED IN ASSEMBLY 133 LOCATED AT H12
MAXIMUM AXIAL PEAKINGFACTOR IN REGION 4 OF 1.23 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 0.85 OCCURRED IN ASSEMBLY 79 LOCATED AT H 8
MAXIMUM RADIAL PEAKING FACTOR IN REGION 2 OF 1.05 OCCURRED IN ASSEMBLY 144 LOCATED AT G13
MAXIMUM RADIAL PEAKING FACTOR IN REGION 3 OF 1.19 OCCURRED IN ASSEMBLY 108 LOCATED AT H10
MAXIMUM RADIAL PEAKING FACTOR IN REGION 4 OF 1.26 OCCURRED IN ASSEMBLY 152 LOCATED AT G14

AVERAGE AXIAL OFFSET (PERCENT) -7.20

MAXIMUM GROSS PEAKING (FQN) FACTOR OF 1.72 OCCURRED IN ASSEMBLY 6 LOCATED AT J 2
MAXIMUM GROSS PEAKING FACTOR IN REGION 1 OF 1.16 OCCURRED IN ASSEMBLY 79 LOCATED AT H 8
MAXIMUM GROSS PEAKING FACTOR IN REGION 2 OF 1.36 OCCURRED IN ASSEMBLY 151 LOCATED AT H14
MAXIMUM GROSS PEAKING FACTOR IN REGION 3 OF 1.52 OCCURRED IN ASSEMBLY 143 LOCATED AT H13
MAXIMUM GROSS PEAKING FACTOR IN REGION 4 OF 1.72 OCCURRED IN ASSEMBLY 152 LOCATED AT G14

CENTER ASSEMBLY AVERAGE POWER FRACTION 0.845
REGION 2 AVERAGE POWER FRACTION 0.925
REGION 3 AVERAGE POWER FRACTION 1.061
REGION 4 AVERAGE POWER FRACTION 0.935

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