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SHUTTLE ACTIVE THERMAL CONTROL SYSTEM
DEVELOPMENT TESTING

VOLUME IV

BOOK 1

MODULAR RADIATOR SYSTEM TEST DATA

23 OCTOBER 1973

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MODULAR RADIATOR SYSTEM TEST DATA

Report No. T169-28

23 October 1973

Submitted by

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LTV Aerospace Corporation
Dallas, Texas

To

National Aeronautics and Space Administration
Lyndon B. Johnson Space Center
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FOREWORD

This volume is one of a series of reports describing the development tests conducted on a candidate Shuttle heat rejection system at the National Aeronautics and Space Administration - Johnson Space Center during the period from March to July 1973. The complete test series are reported in the following volumes:

- Volume I Overall Summary
- Volume II Modular Radiator System Tests
- Volume III Modular Radiator System Test Data
Correlation With Thermal Model
- Volume IV Modular Radiator System Test Data
- Volume V Integrated Radiator/Expendable Cooling System
Tests
- Volume VI Water Ejector Plume Tests
- Volume VII Improved Radiator Coating Adhesives Tests
- Volume VIII Tube Anomaly Investigation

The tests were conducted jointly by NASA and the Vought Systems Division of LTV Aerospace Corporation under Contract NAS9-10534. D. W. Morris of the NASA-JSC Crew Systems Division was the contract technical monitor. Mr. R. J. Tufte served as the VSD Project Engineer.

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1.0 SUMMARY AND INTRODUCTION

A three-week test of a Modular Radiator System (MRS) was conducted in the Space Environment Simulation Laboratory (SESL) at the Johnson Space Center (JSC) during the time period March 5 through 23, 1973.

This volume presents plots of all key data recorded during the three-week test.

2.0 TEST DATA PRESENTATION

Table 1 presents the test time line in the order that the tests were run. A complete definition of each test point is given in Volume II of this report. The MRS test data presented herein, is grouped into chronological periods as shown in Table 2. Each group is further subdivided by type of measurement as shown below:

- o Flowrates and pressure drop measurements - See Fig. 1 and Table 3.
- o System and panel inlet and outlet temperatures - See Fig. 1 and Table 4.
- o On-panel temperatures - See Fig. 2 and Table 5

The desired test data is found by first entering Table 2 to determine the alphabetical grouping, then using the index presented in Tables 3, 4, and 5 to find the appropriate page numbers within the group.

Accurate system and individual panel inlet and outlet temperatures are considered imperative in determining the radiator system performance. In order to improve the measurement accuracy, two ranges of thermocouples were used for this data (see Table 4). The AI0001 through AI0036 series have a temperature range of -300°F to -40°F and the AJ0001 through AJ0036 series have a temperature range of -60°F to $+200^{\circ}\text{F}$. Data plots are presented for both the AI and AJ series even when all data is off scale for one series.

During the third week of testing it was observed that the inlets to the prime tubes inside the chamber were reading approximately 9°F higher than the prime inlet outside the chamber. With chamber cold walls it did not seem reasonable that a net heat gain of this magnitude could occur. Starting with day 79 approximately 2230 hours the back-up thermocouples for AI0003 through AI0036 were recorded on the miscellaneous channels, MS0003 through MS0036. The MS data agreed well with the measurements outside the chamber. Subsequent to the test it was discovered that a dissimilar thermocouple connector inside the chamber was used for AI0003 through AI0014. During the first two weeks of testing the chamber walls were warm and the thermocouple connector did not affect the readings. However, during the third week the chamber walls were cold and a temperature gradient in the connector produced an EMF which affected the readings. A survey of the AI and MS readings after 2230 on day 79 indicated that the AI readings averaged 8.5°F high. This value

should be subtracted from all A10003 through A10014 data between day 78, 0735 hours and day 80, 0100. Subsequent to this time the MS data is plotted in place of the AI data and values can be read directly from the plots.

As indicated on Figure 1, two or three flowmeters of different ranges were used for each of the flow measurements. Table 6 shows the range for each flowmeter. The flowmeters were manually valved in or out to obtain the correct meter as the flow changed. The data plots include the flowmeter readings even if it is off line or out of range. On day 71, 1540 hours the transducer on FM54 failed during a recovery transient. The FM56 transducer was not in use for this test sequence so it was switched to FM-54. Therefore FM-54 data is recorded on FM-56 channel during this period.

The resolution of the plotted data is shown on Table 7. Resolution is defined as the band between one plot mark and the next one. This table indicates that the plotted data will indicate no change until the measured value change is greater than the resolution value. For example, all AJ temperature measurements will plot as a constant value until the measured temperature changes by 6°F.

TABLE I
THREE WEEK TEST TIMELINE

<u>DATE</u>	<u>DAY</u>	<u>TEST POINT</u>	<u>BEGIN</u>	<u>END</u>		
5 March 1973	64	1	1525	1855		
		1A	1855	2020		
		2	2020	0146(day 65)		
6 March 1973	65	3	0146	0445		
		4	0445	0600		
		Chamber Down	0948	1700		
		5	1700	1920		
7 March 1973	66	8	0020	0430		
8 March 1973	67	10	0430	0755		
		12	0755	1115		
		17	1115	1525		
		17A	2050	2256		
		18	2300	0340(day 68)		
		19	0740	1140		
		47	1108	2025		
9 March 1973	68	14	0000	0315		
		14A	0315	0615		
		16	0730	1040		
		20	1040	1515		
		11	1515	1830		
		Chamber Down	1830	1400(day 73)		
		31	1400	1525		
		32	1525	1825		
12 March 1973	71	33	1825	1920		
		48	1920	2210		
		49	2210	2330		
		37	2330	0210(day 74)		
		38	0210	0300		
		39	0300	0400		
13 March 1973	72	45	0400	0615		
		46	0615	0745		
		14 March 1973	73	31	1400	1525
		32		1525	1825	
33	1825	1920				
48	1920	2210				
14 March 1973	73	49	2210	2330		
		37	2330	0210(day 74)		
		38	0210	0300		
		39	0300	0400		
		45	0400	0615		
15 March 1973	74	46	0615	0745		

TABLE I (CONT'D)

<u>DATE</u>	<u>DAY</u>	<u>TEST POINT</u>	<u>BEGIN</u>	<u>END</u>
15 March 1973	74	50	0745	1900
		43	1900	2335
		36	2335	0600(day 75)
16 March 1973	75	36A	0600	0955
19 March 1973	78	21	0736	1000
		22	1000	1340
		23	1340	1720
		24	1720	2025
		25	2025	2330
		26	2330	0130(day 79)
		27	0130	0250
20 March 1973	79	28	0250	0525
		29	0525	1110
		62	1110	0045
		57	0045	0420
21 March 1973	80	58	0420	0735
		60	0735	1140
		51	1646	1735
		52	1735	1920
		52A	1920	2031
		52B	2031	2105
		52C	2105	2200
		52D	2200	2336
		52E	2336	0205(day 81)
		53A	0205	0605
22 March 1973	81	53	0605	0715
		54	0715	0825
		55	0825	9:20
		56	0920	1105
		59	1105	1210
		63	1800	2144
		64	2300	0200(day 82)
23 March 1973	82	61	0200	0630

TABLE 2

TEST POINT GROUPING

GROUP	TEST TIMES (day, hour)		TEST POINTS
	FROM	TO	
A	64 - 1525	65 - 0600	1, 1A, 2, 3, 4
B	66 - 1700	67 - 1525	5, 8, 10, 12, 17
C	67 - 1525	68 - 1140	17A, 18, 19
D	71 - 1108	72 - 0315	47, 14
E	72 - 0315	72 - 1830	15(144), 16, 20, 11
F	73 - 1400	74 - 0400	31, 32, 33, 48, 49, 37, 38, 39
G	74 - 0400	74 - 2335	45, 46, 50, 43
H	74 - 2335	75 - 0955	36, 36A
I	78 - 0736	79 - 0130	21, 22, 23, 24, 25, 26
J	79 - 0130	80 - 0110	27, 28, 29
K	80 - 0110	80 - 1735	57, 58, 60, 51
L	80 - 1735	81 - 1105	52, 53, 54, 55, 56
M	81 - 1105	82 - 0630	59, 63, 64, 61

TABLE 3

PLOTTED FLOW AND PRESSURE MEASUREMENTS

PAGE	Transducer Number	Description	Units
1	FM0040	TOTAL FLOW	LBPH
	FM0043	TOTAL PRIME FLOW HIGH RANGE	LBPH
	FM0046	TOTAL BANK FLOW HIGH RANGE	LBPH
2	FM0041	TOTAL PRIME FLOW LOW RANGE	LBPH
	FM0044	TOTAL BANK FLOW LOW RANGE	LBPH
	FM0047	PRIME CKT 1 AND 2 LOW RANGE	LBPH
	FM0050	PRIME CKT 3 AND 4 LOW RANGE	LBPH
3	FM0042	TOTAL PRIME FLOW INT RANGE	LBPH
	FM0045	TOTAL BANK FLOW INT RANGE	LBPH
	FM0048	PRIME CKT 1 AND 2 INT RANGE	LBPH
	FM0051	PRIME CKT 3 AND 4 INT RANGE	LBPH
4	FM0049	PRIME CKT 1 AND 2 HIGH RANGE	LBPH
	FM0052	PRIME CKT 3 AND 4 HIGH RANGE	LBPH
5	FM0053	BANK CKT 5 INT RANGE	LBPH
	FM0055	BANK CKT 6 INT RANGE	LBPH
	FM0057	BANK CKT 7 INT RANGE	LBPH
	FM0059	BANK CKT 8 INT RANGE	LBPH
6	FM0054	BANK CKT 5 HIGH RANGE	LBPH
	FM0056	BANK CKT 6 HIGH RANGE	LBPH
	FM0058	BANK CKT 7 HIGH RANGE	LBPH
	FM0060	BANK CKT 8 HIGH RANGE	LBPH
7	PK0066	BANK PANEL 1 DELTA PRESSURE	PSID
	PK0067	BANK PANEL 2 DELTA PRESSURE	PSID
	PK0068	BANK PANEL 3 DELTA PRESSURE	PSID
	PK0069	BANK PANEL 4 DELTA PRESSURE	PSID
8	PK0065	PRIME TUBE MIX JUTLET PRESSURE	PSIG
9	PK0061	PRIME CKT 1 INLET PRESSURE	PSIG
	PK0062	PRIME CKT 2 INLET PRESSURE	PSIG
	PK0063	PRIME CKT 3 INLET PRESSURE	PSIG
	PK0064	PRIME CKT 4 INLET PRESSURE	PSIG
10	PK0070	BANK PANEL 5 DELTA PRESSURE	PSID
	PK0071	BANK PANEL 6 DELTA PRESSURE	PSID
	PK0072	BANK PANEL 7 DELTA PRESSURE	PSID

TABLE 4

PLOTTED SYSTEM AND PANEL INLET AND OUTLET TEMPERATURES

PAGE	T/C No	Description	Units
11	AI0001	PRIME SYSTEM INLET	DEG F
12	AI0002	BANK SYSTEM INLET	DEG F
13	AJ0001	PRIME SYSTEM INLET	DEG F
14	AJ0002	BANK SYSTEM INLET	DEG F
15	AI0019	PRIME TUBES OUTLET MIX IN CH	DEG F
	AI0036	BANK TUBES OUTLET MIX IN CH	DEG F
	AI0039	MIXED BANK AND PRIME	DEG F
16	AJ0019	PRIME TUBES OUTLET MIX IN CH	DEG F
	AJ0036	BANK TUBES OUTLET MIX IN CH	DEG F
	AJ0039	MIXED BANK AND PRIME	DEG F
17	AI0003	PANEL NO 1 PRIME TUBE INLET	DEG F
	AI0004	PANEL NO 2 PRIME TUBE INLET	DEG F
	AI0005	PANEL NO 5 PRIME TUBE INLET	DEG F
	AI0006	PANEL NO 6 PRIME TUBE INLET	DEG F
18	AJ0003	PANEL NO 1 PRIME TUBE INLET	DEG F
	AJ0004	PANEL NO 2 PRIME TUBE INLET	DEG F
	AJ0005	PANEL NO 5 PRIME TUBE INLET	DEG F
	AJ0006	PANEL NO 6 PRIME TUBE INLET	DEG F
19	AI0007	PANEL NO 1 PRIME TUBE OUTLET	DEG F
	AI0008	PANEL NO 2 PRIME TUBE OUTLET	DEG F
	AI0009	PANEL NO 5 PRIME TUBE OUTLET	DEG F
	AI0010	PANEL NO 6 PRIME TUBE OUTLET	DEG F
20	AJ0007	PANEL NO 1 PRIME TUBE OUTLET	DEG F
	AJ0008	PANEL NO 2 PRIME TUBE OUTLET	DEG F
	AJ0009	PANEL NO 5 PRIME TUBE OUTLET	DEG F
	AJ0010	PANEL NO 6 PRIME TUBE OUTLET	DEG F
21	AI0011	PANEL NO 3 PRIME TUBE INLET	DEG F
	AI0012	PANEL NO 4 PRIME TUBE INLET	DEG F
	AI0013	PANEL NO 7 PRIME TUBE INLET	DEG F
	AI0014	PANEL NO 8 PRIME TUBE INLET	DEG F
22	AJ0011	PANEL NO 3 PRIME TUBE INLET	DEG F
	AJ0012	PANEL NO 4 PRIME TUBE INLET	DEG F
	AJ0013	PANEL NO 7 PRIME TUBE INLET	DEG F
	AJ0014	PANEL NO 8 PRIME TUBE INLET	DEG F
23	AI0015	PANEL NO 3 PRIME TUBE OUTLET	DEG F
	AI0016	PANEL NO 4 PRIME TUBE OUTLET	DEG F
	AI0017	PANEL NO 7 PRIME TUBE OUTLET	DEG F
	AI0018	PANEL NO 8 PRIME TUBE OUTLET	DEG F
24	AJ0015	PANEL NO 3 PRIME TUBE OUTLET	DEG F
	AJ0016	PANEL NO 4 PRIME TUBE OUTLET	DEG F
	AJ0017	PANEL NO 7 PRIME TUBE OUTLET	DEG F
	AJ0018	PANEL NO 8 PRIME TUBE OUTLET	DEG F
25	AI0020	PANEL NO 1 BANK TUBE INLET	DEG F
	AI0021	PANEL NO 2 BANK TUBE INLET	DEG F
	AI0022	PANEL NO 5 BANK TUBE INLET	DEG F
	AI0023	PANEL NO 6 BANK TUBE INLET	DEG F

TABLE 4 (CONTINUED)

PAGE	T/C No.	Description	Units
26	AJ0020	PANEL NO 1 BANK TUBE INLET	DEG F
	AJ0021	PANEL NO 2 BANK TUBE INLET	DEG F
	AJ0022	PANEL NO 5 BANK TUBE INLET	DEG F
	AJ0023	PANEL NO 6 BANK TUBE INLET	DEG F
27	AI0024	PANEL NO 1 BANK TUBE OUTLET	DEG F
	AI0025	PANEL NO 2 BANK TUBE OUTLET	DEG F
	AI0026	PANEL NO 5 BANK TUBE OUTLET	DEG F
	AI0027	PANEL NO 6 BANK TUBE OUTLET	DEG F
28	AJ0024	PANEL NO 1 BANK TUBE OUTLET	DEG F
	AJ0025	PANEL NO 2 BANK TUBE OUTLET	DEG F
	AJ0026	PANEL NO 5 BANK TUBE OUTLET	DEG F
	AJ0027	PANEL NO 6 BANK TUBE OUTLET	DEG F
29	AI0028	PANEL NO 3 BANK TUBE INLET	DEG F
	AI0029	PANEL NO 4 BANK TUBE INLET	DEG F
	AI0030	PANEL NO 7 BANK TUBE INLET	DEG F
	AI0031	PANEL NO 8 BANK TUBE INLET	DEG F
30	AJ0028	PANEL NO 3 BANK TUBE INLET	DEG F
	AJ0029	PANEL NO 4 BANK TUBE INLET	DEG F
	AJ0030	PANEL NO 7 BANK TUBE INLET	DEG F
	AJ0031	PANEL NO 8 BANK TUBE INLET	DEG F
31	AI0032	PANEL NO 3 BANK TUBE OUTLET	DEG F
	AI0033	PANEL NO 4 BANK TUBE OUTLET	DEG F
	AI0034	PANEL NO 7 BANK TUBE OUTLET	DEG F
	AI0035	PANEL NO 8 BANK TUBE OUTLET	DEG F
32	AJ0032	PANEL NO 3 BANK TUBE OUTLET	DEG F
	AJ0033	PANEL NO 4 BANK TUBE OUTLET	DEG F
	AJ0034	PANEL NO 7 BANK TUBE OUTLET	DEG F
	AJ0035	PANEL NO 8 BANK TUBE OUTLET	DEG F

TABLE 5

ORGANIZATION OF ON-PANEL TEMPERATURE DATA

DATA FROM:	IS ON THE FOLLOWING PAGES:
Panel 1	33 through 46
Panel 2	47 through 60
Panel 3	61 through 74
Panel 4	75 through 88
Panel 5	89 through 102
Panel 6	103 through 116
Panel 7	117 through 130
Panel 8	131 through 144

EACH 14-PAGE PANEL GROUP IS ORGANIZED AS FOLLOWS		
PAGE	T/C LOCATIONS (see Figure 2)	DESCRIPTION
1st	1,2,3,4	Bank outlet temperatures
2nd	5,6,7,8	Bank outlet temperatures
3rd	9,10,12,13	Bank and prime outlet temperatures
4th	14,17,19,20	Bank and prime inlet temperatures
5th	21,22,23,24	Bank inlet temperatures
6th	25,26,27,28	Bank inlet temperatures
7th	12,15,16,17	Temperatures along 2nd tube
8th	9,30,20	Temperatures along 4th tube
9th	5,31,36,24	Temperatures along 8th tube
10th	3,32,37,26	Temperatures along 10th tube
11th	1,33,34,38	Temperatures along 12th tube
12th	30,31,32,33	Temperatures along diagonal
13th	34,35,36	Temperatures along median
14th	11,18,29	Temperatures on manifold

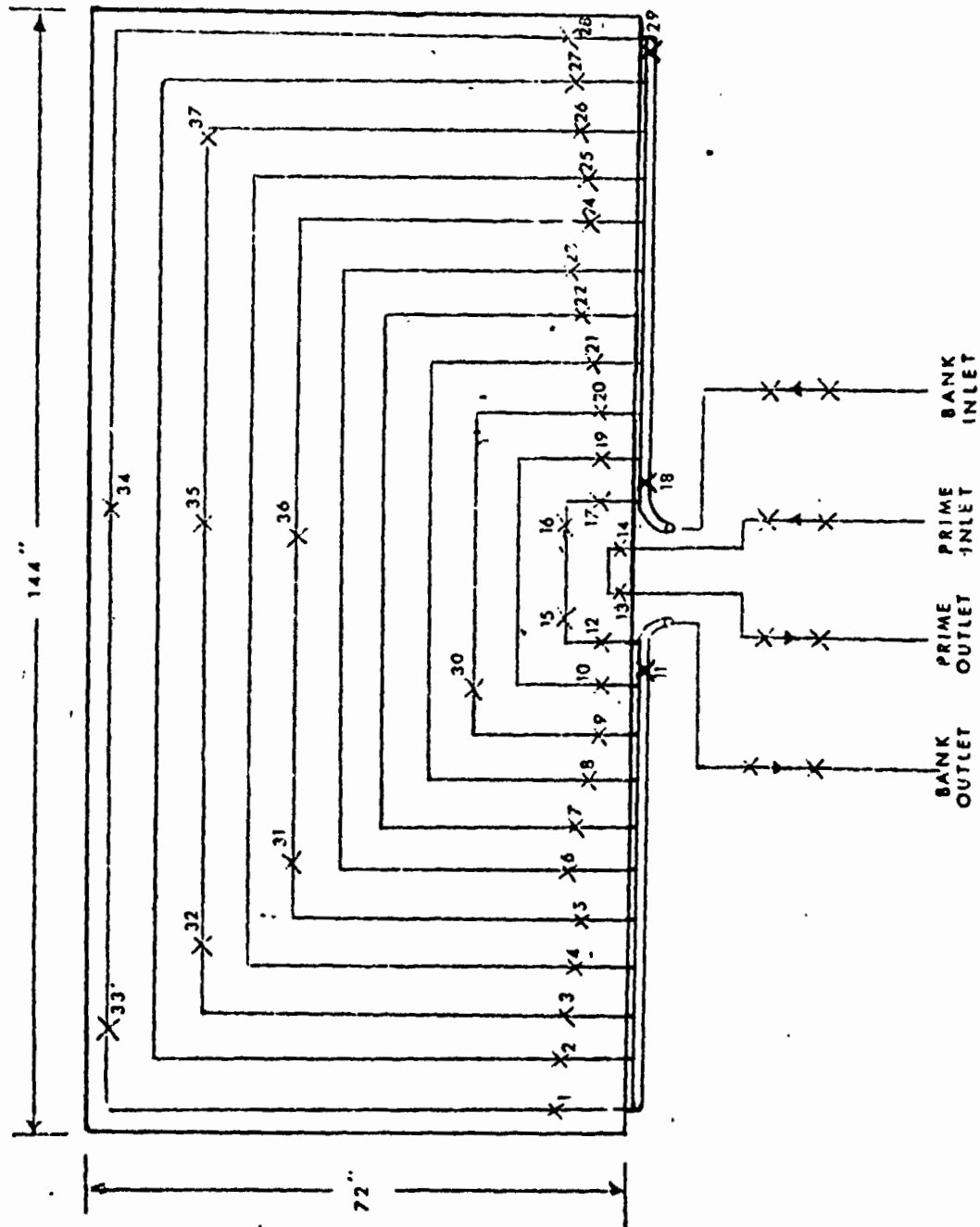
TABLE 6 FLOW METER RANGES

Flow Meter	Range, LB/HR
FM0040 Flow Bench Total Flow	417 to 4170
FM0041 Flow Bench Prime Low Flow	5 to 50
FM0042 Flow Bench Prime Int Flow	50 to 520
FM0043 Flow Bench Prime High Flow	417 to 4170
FM0044 Flow Bench Main Low Flow	5 to 50
FM0045 Flow Bench Main Int Flow	50 to 520
FM0046 Flow Bench Main High Flow	417 to 4170
FM0047 Prime Ckt #1 & 2 Low Flow	3.5 to 35
FM0048 Prime Tube Ckt 1 & 2 Int. Flow	.17 to 175
FM0049 Prime Tube Ckt #1 & 2 Hi Flow	175 to 1750
FM0050 Prime Tube Ckt #3 & 4 Low Flow	3.3 to 35
FM0051 Prime Tube Ckt #3 & 4 Int. Flow	17 to 175
FM0052 Prime Tube Ckt #3 & 4 Int. Flow	175 to 1750
FM0053 Main Tube Ckt 5 Int Flow	17 to 175
FM0054 Main Tube Ckt 5 Hi Flow	87 to 870
FM0055 Main Tube Ckt 6 Int Flow	17 to 175
FM0056 Main Tube Ckt 6 Hi Flow	175 to 1750
FM0057 Main Tube Ckt 7 Int. Flow	17 to 175
FM0058 Main Tube Ckt 7 Hi Flow	175 to 1750
FM0059 Main Tube Ckt 8 Int Flow	17 to 175
FM0060 Main Tube Ckt 8 Hi Flow	87 to 870

TABLE 7 PLOTTED DATA RESOLUTION

PREFIX	NUMBERS	RANGE	APPROX. RESOLUTION
AA, AB, AC, AD, AE AF, AG, AH	A11	-300 → 200°F	6°F
AI	A11	-300 → 40°F	4°F
AJ	A11	- 60 → 200°F	6°F
MS	A11	-250 → 300°F	6°F
FM	0040, 0043, 0046	417 → 4170 lb/hr	45 lb/hr
	0041, 0044	5 → 50 lb/hr	.5 lb/hr
	0042, 0045	50 → 520 lb/hr	5.5 lb/hr
	0047, 0050	3.5 → 35 lb/hr	.4 lb/hr
	0048, 0051, 0053, 0055, 0057, 0059	17 → 175 lb/hr	2 lb/hr
	0049, 0052, 0056, 0058	175 → 1750 lb/hr	18 lb/hr
	0054, 0060	87 → 870 lb/hr	18 lb/hr
PK	0061 0065	0 → 500 psig	6 psig
PK	0066 0073	0 → 50 psig	.6 psig

FIGURE 2
PANEL
THERMOCOUPLE LOCATIONS

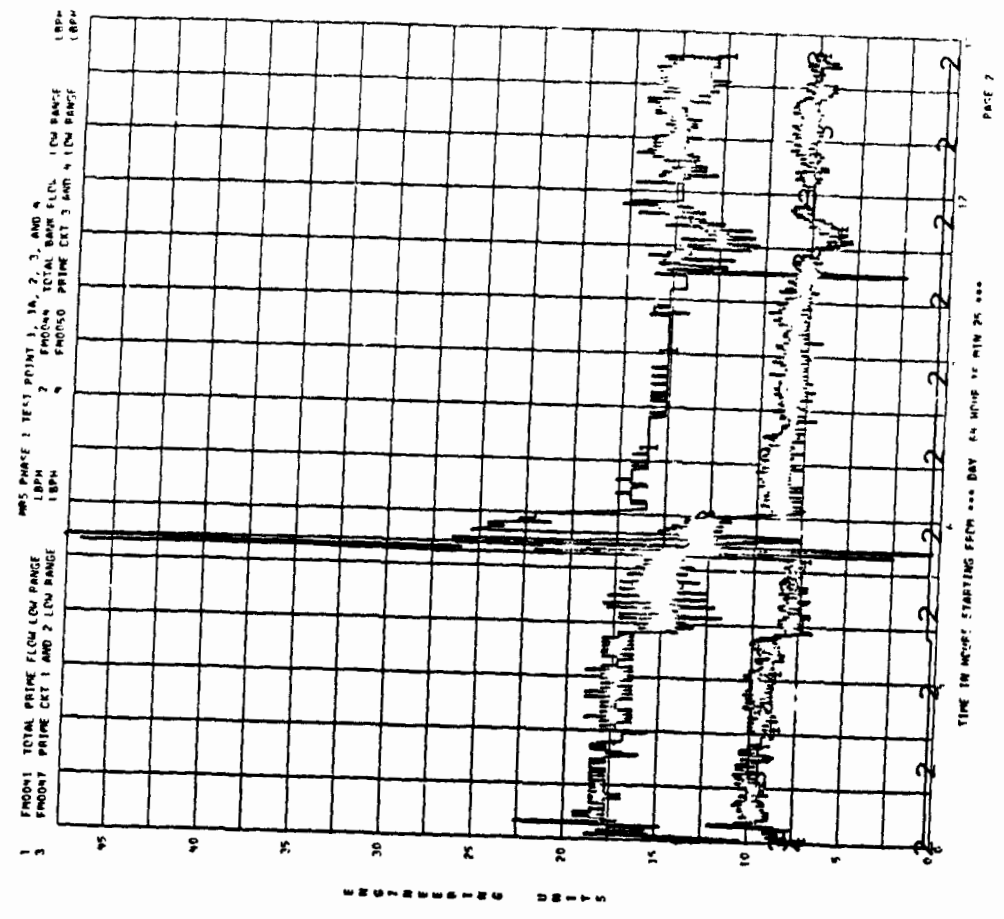
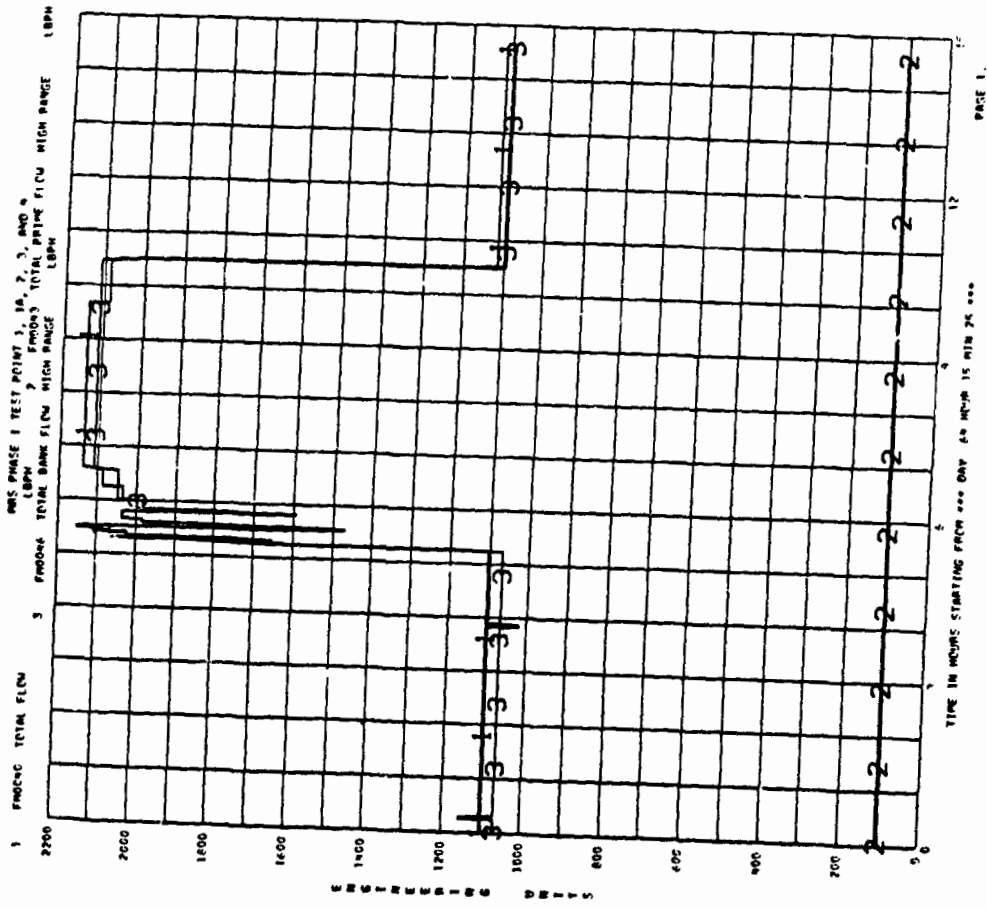


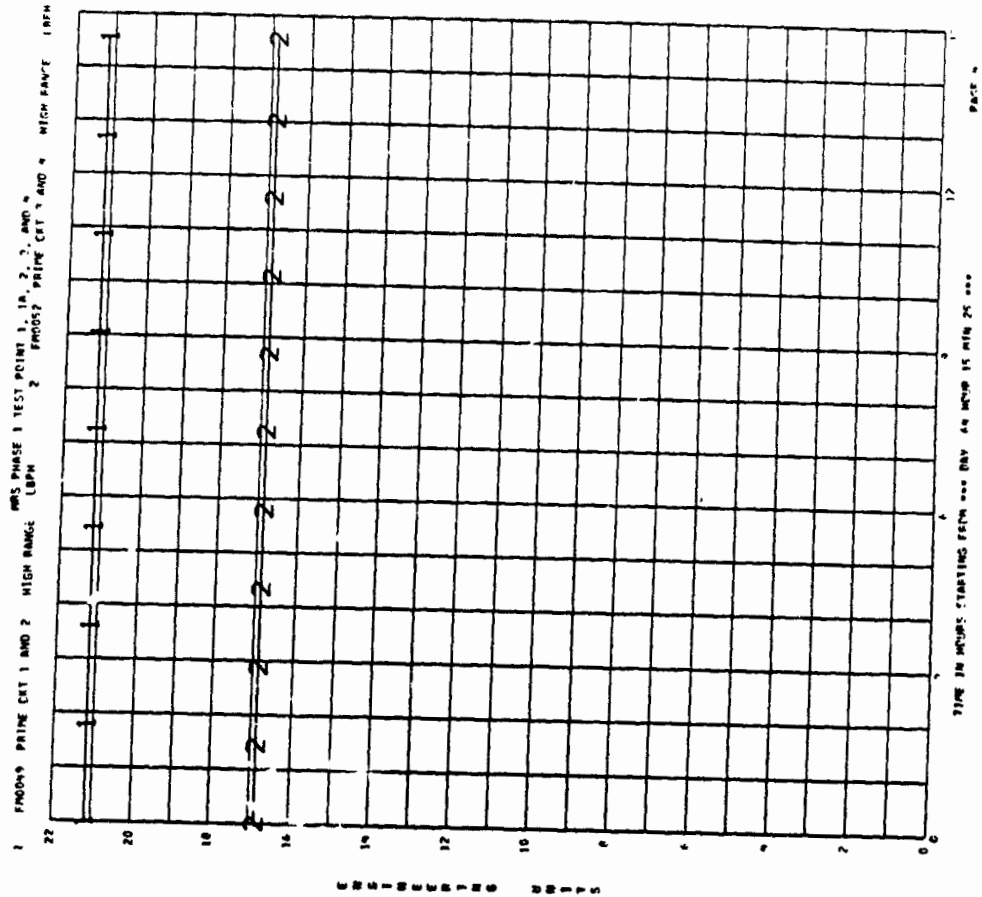
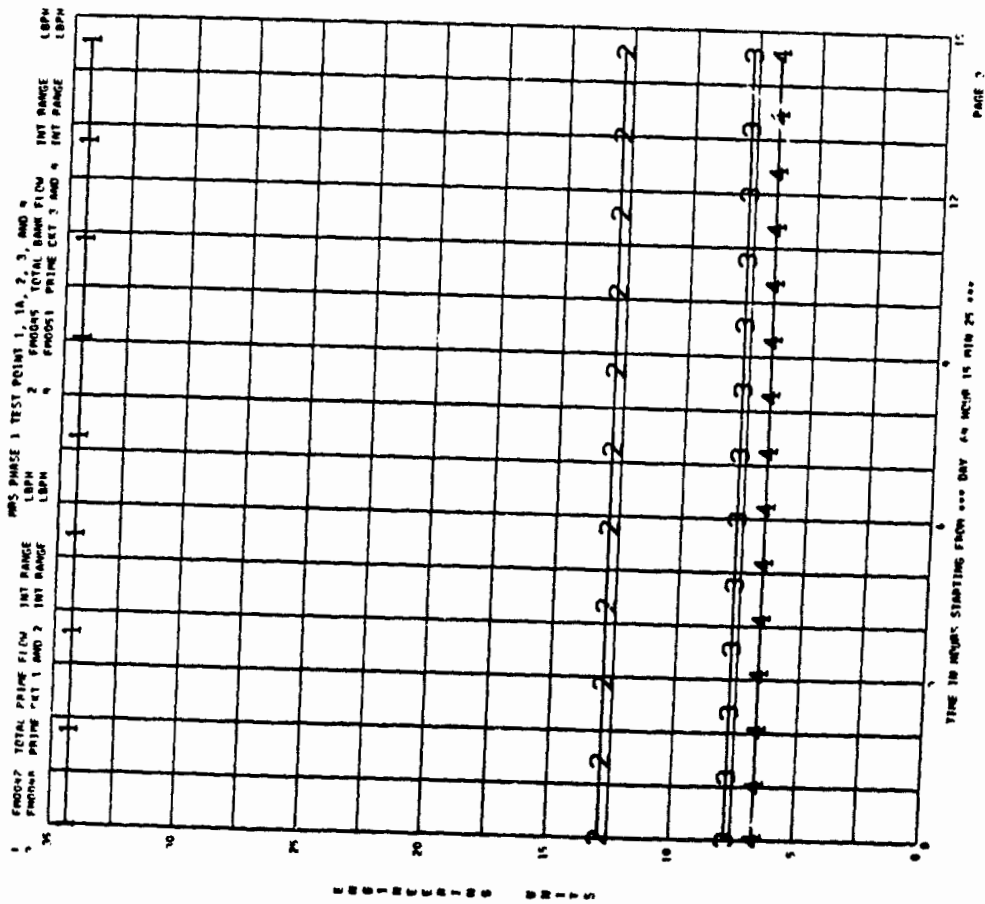
TEST GROUP A

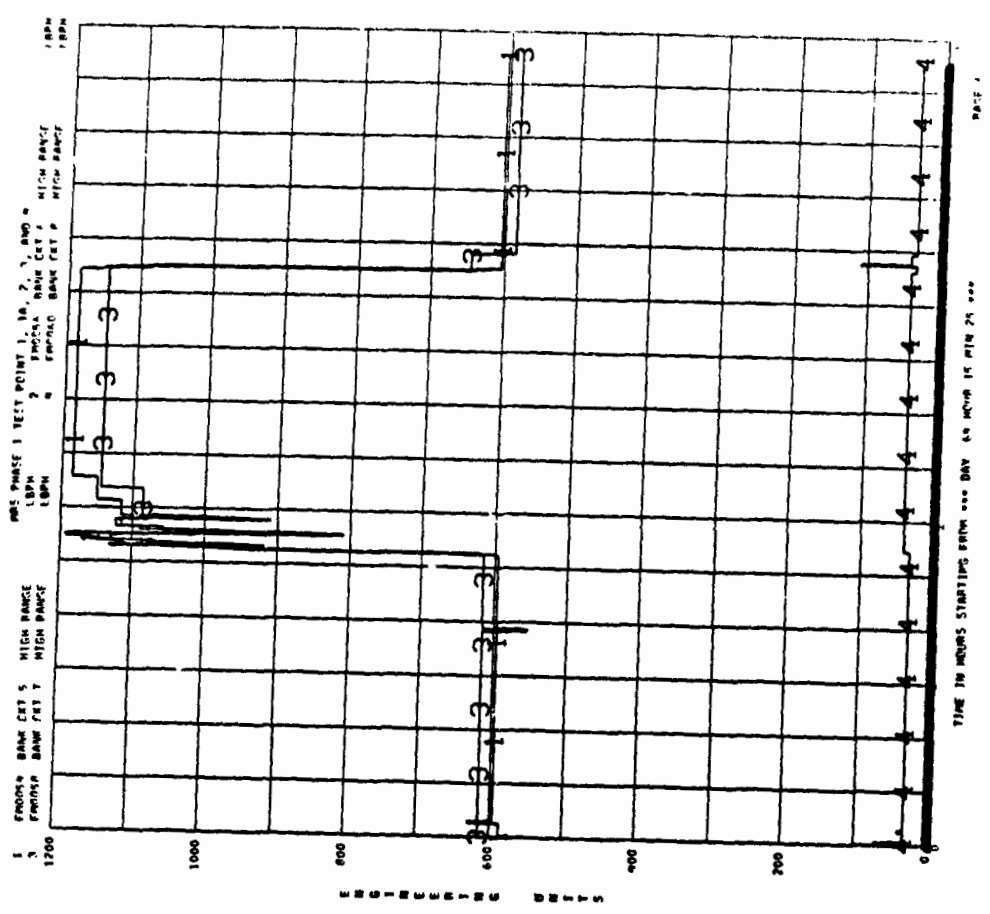
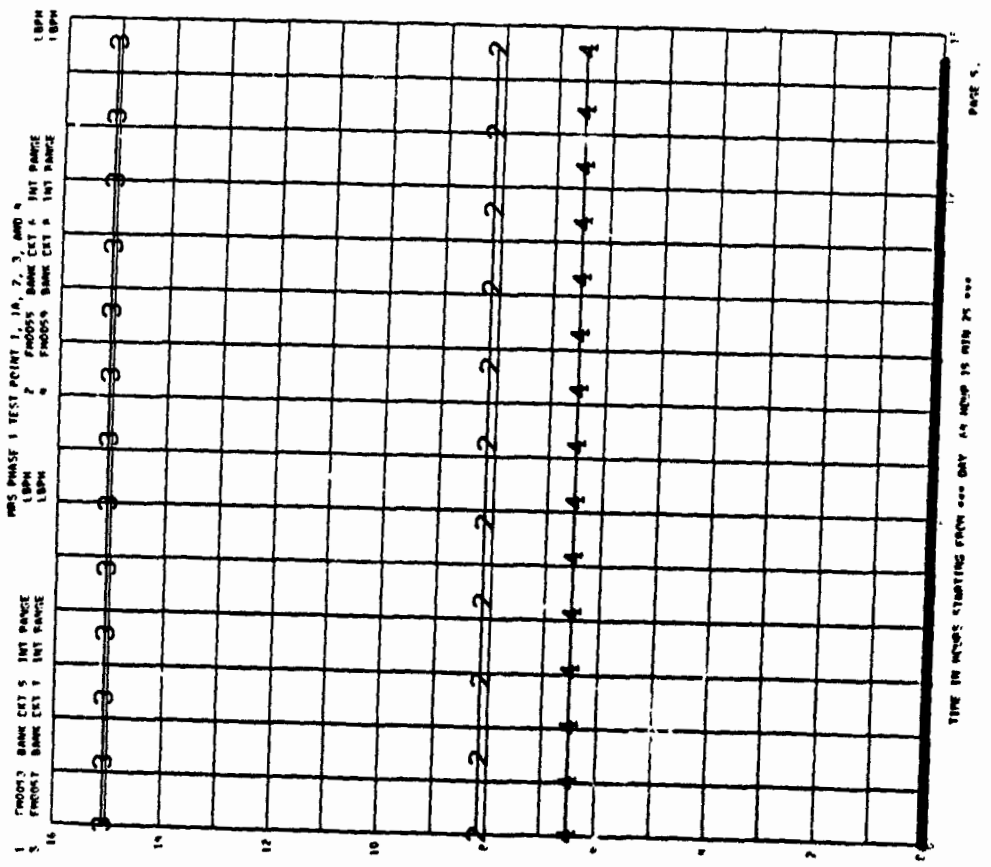
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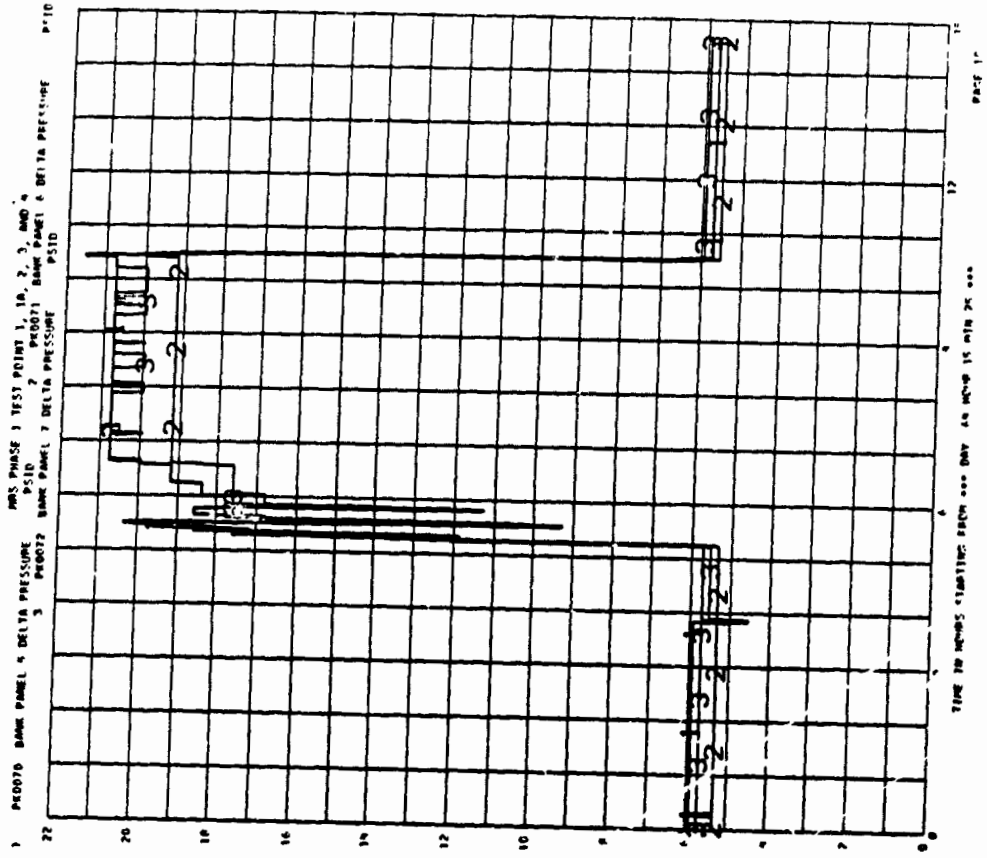
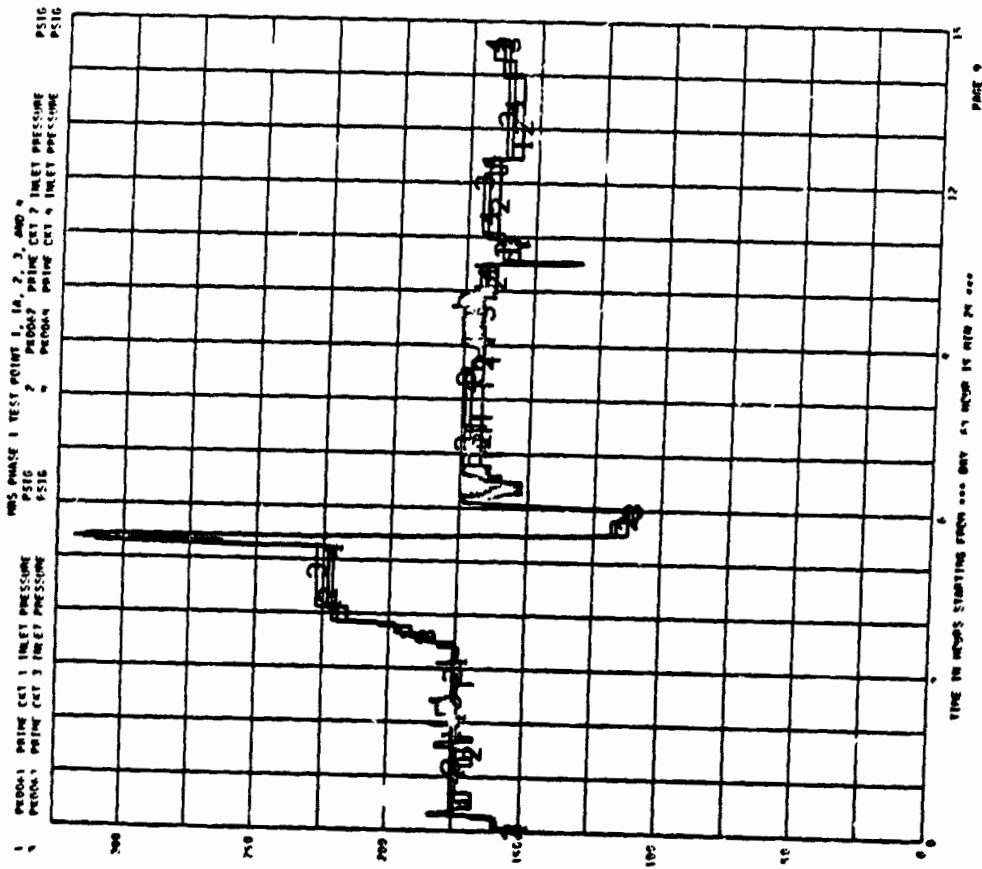
INCLUDES TEST POINTS

- 1
- 1A
- 2
- 3
- 4

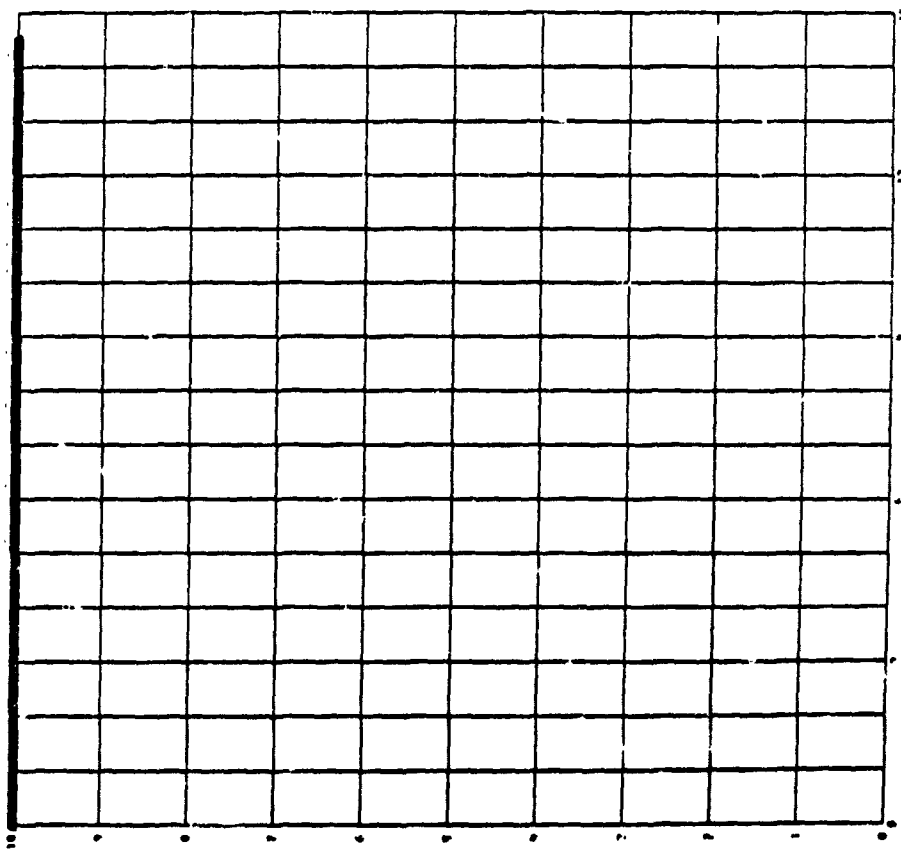








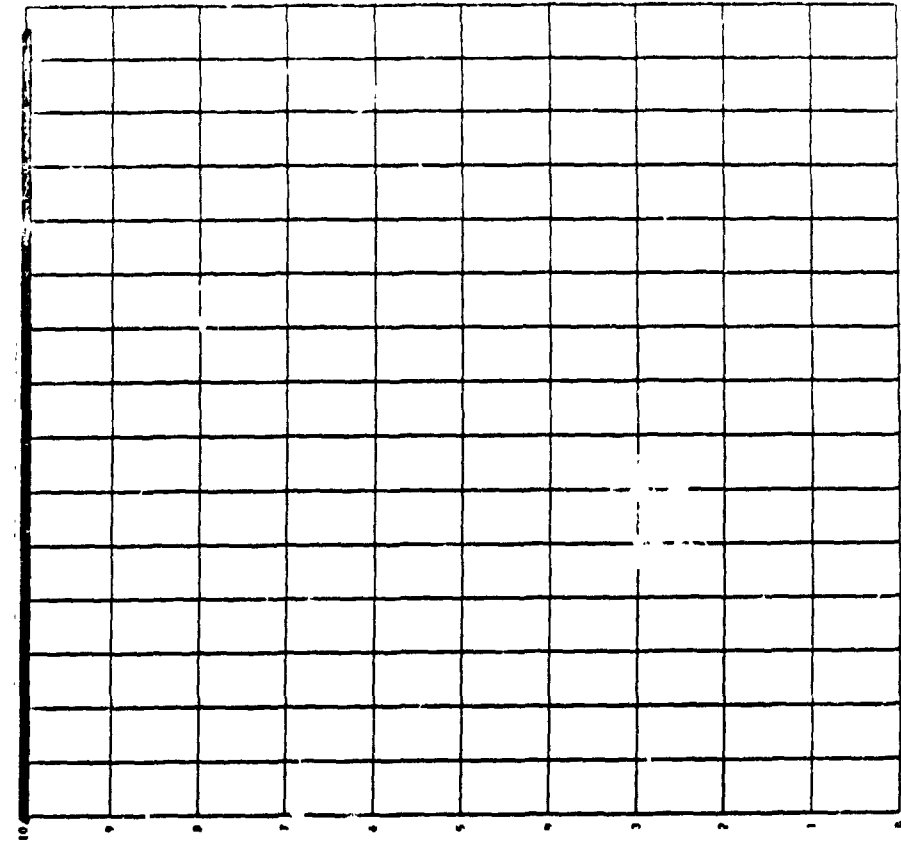
1 010001 PHASE SYSTEM INLET
PHS PHASE 1 TEST POINT 1, 1A, 2, 3, AND 4
DEC 7



TIME IN HOURS STARTING FROM 0000 HRS ON 14 JUN 74 ***

PAGE 11

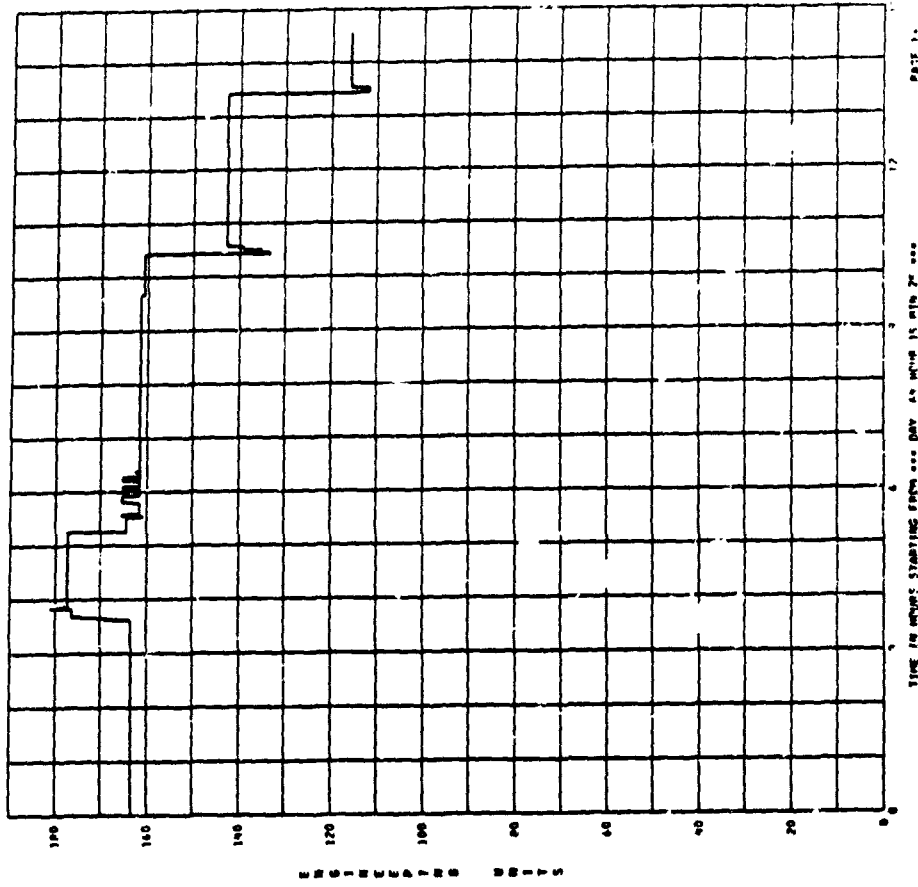
1 010002 PHASE SYSTEM INLET
PHS PHASE 1 TEST POINT 1, 1A, 2, 3, AND 4
DEC 7



TIME IN HOURS STARTING FROM 0000 HRS ON 14 JUN 74 ***

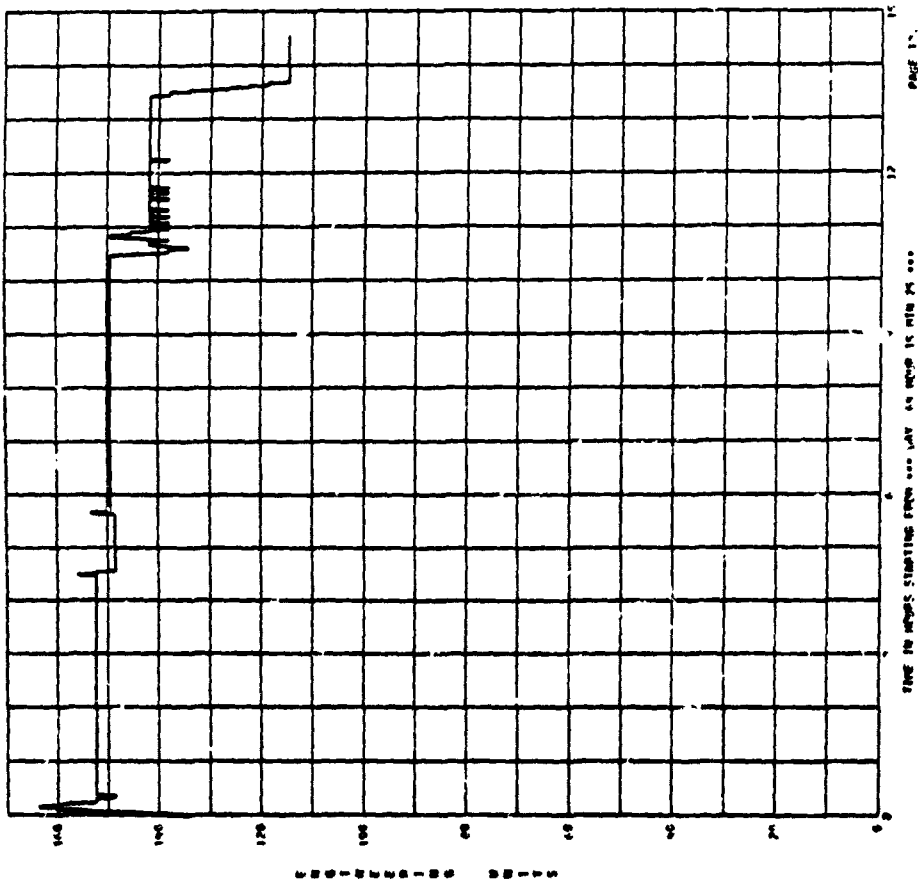
PAGE 12

1 13002 BOMB SYSTEM INLET
 WAS PHASE 1 TEST POINT 1, 1A, 2, 3, AND 4
 DEG P



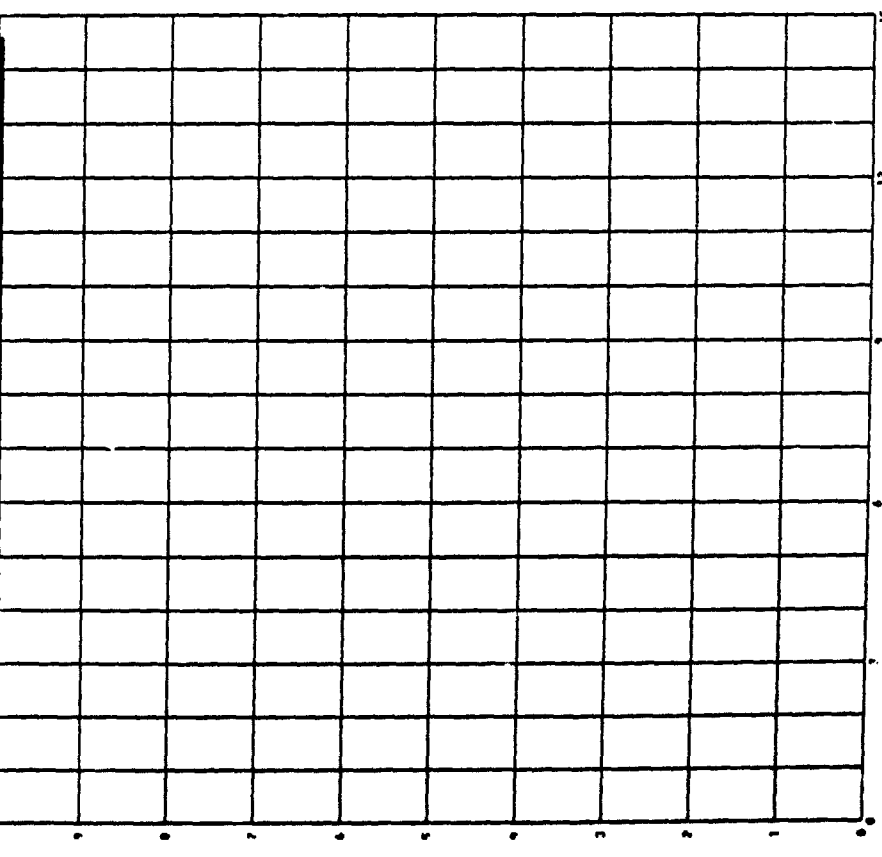
PAGE 17

1 13001 BOMB SYSTEM INLET
 IS PHASE 1 TEST POINT 1, 1A, 2, 3, AND 4
 DEG P



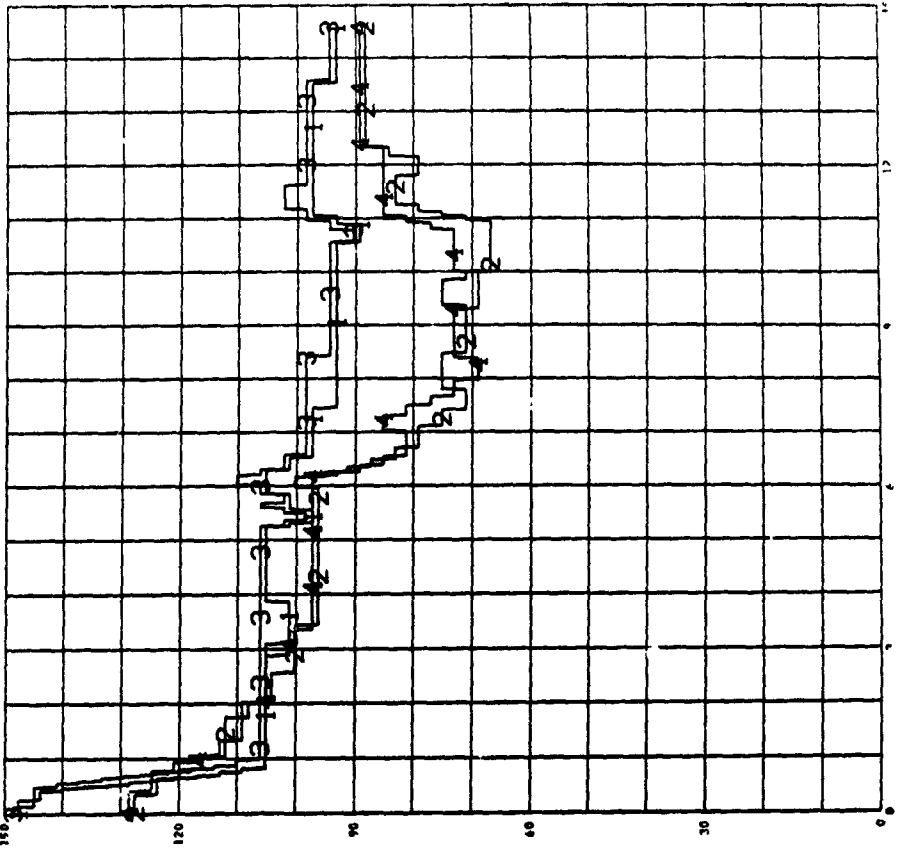
PAGE 17

1 A10007 PANEL NO 1 PRIME TUBE OUTLET DEG F
 2 A10008 PANEL NO 2 PRIME TUBE OUTLET DEG F
 3 A10009 PANEL NO 3 PRIME TUBE OUTLET DEG F
 4 A10010 PANEL NO 4 PRIME TUBE OUTLET DEG F
 5 A10011 PANEL NO 5 PRIME TUBE OUTLET DEG F



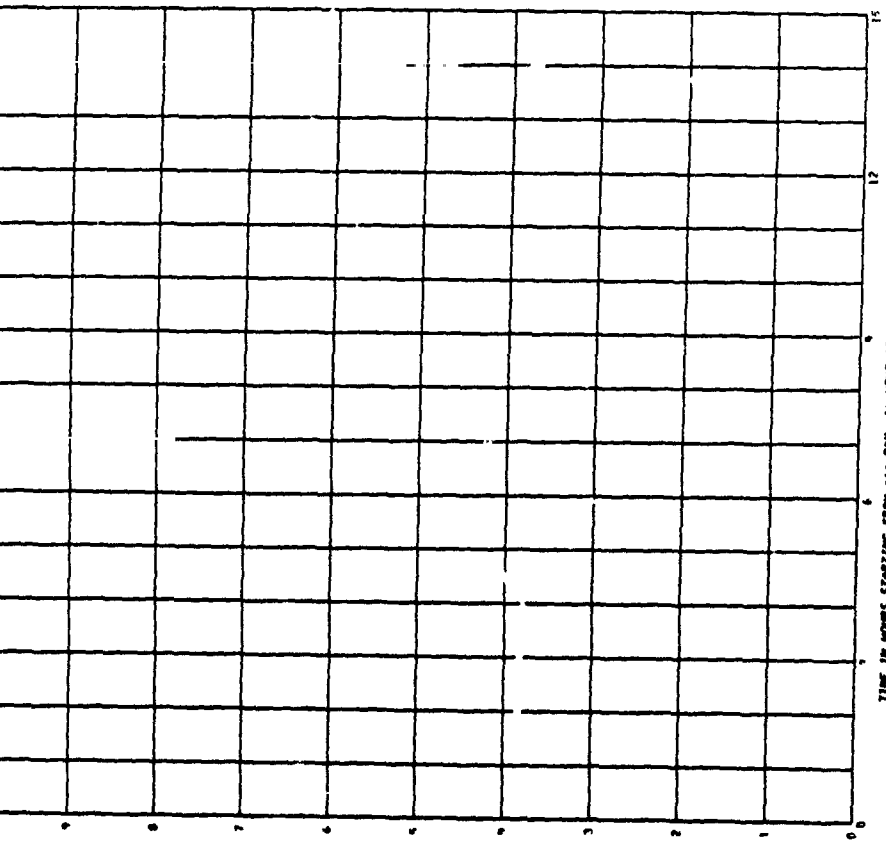
TIME IN HOURS STARTING FROM ... DAY 40 HOUR 15 MIN 75 ...
 PAGE 10.

WRS PHASE I TEST POINT 1, 1A, 2, 3, AND 4
 1 A10007 PANEL NO 1 PRIME TUBE OUTLET DEG F
 2 A10008 PANEL NO 2 PRIME TUBE OUTLET DEG F
 3 A10009 PANEL NO 3 PRIME TUBE OUTLET DEG F
 4 A10010 PANEL NO 4 PRIME TUBE OUTLET DEG F



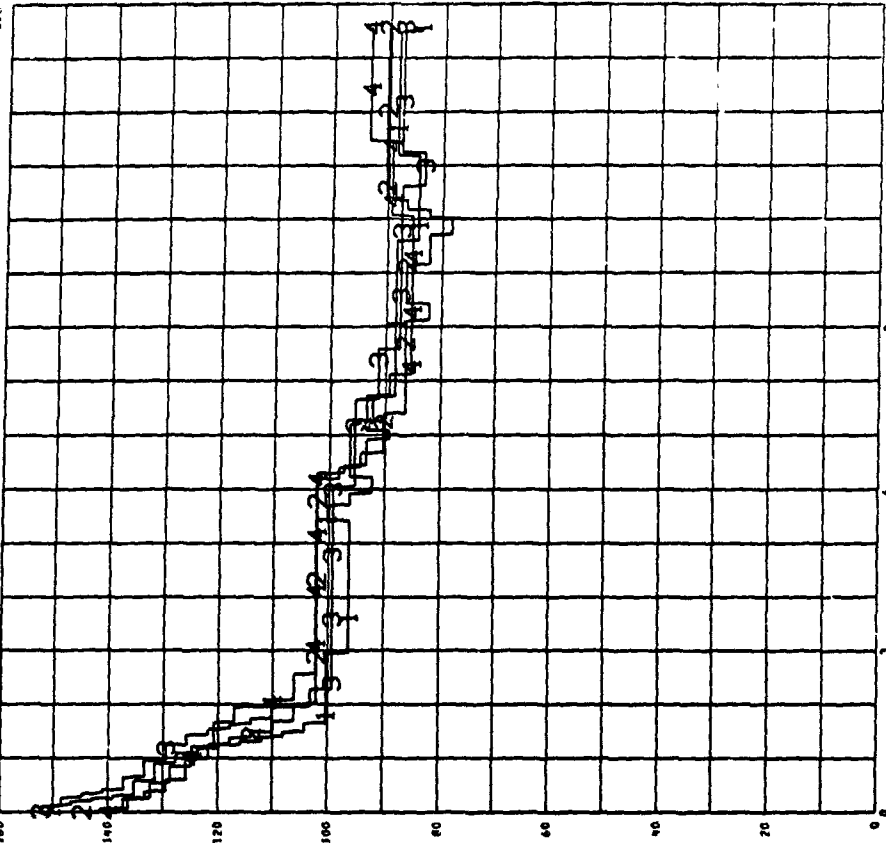
TIME IN HOURS STARTING FROM ... DAY 40 HOUR 15 MIN 75 ...
 PAGE 70.

1 A10011 PANEL NO 3 PRIME TUBE INLET DEG F
 2 A10012 PANEL NO 4 PRIME TUBE INLET DEG F
 3 A10013 PANEL NO 5 PRIME TUBE INLET DEG F
 4 A10014 PANEL NO 6 PRIME TUBE INLET DEG F
 5 A10015 PANEL NO 7 PRIME TUBE INLET DEG F
 6 A10016 PANEL NO 8 PRIME TUBE INLET DEG F
 7 A10017 PANEL NO 9 PRIME TUBE INLET DEG F
 8 A10018 PANEL NO 10 PRIME TUBE INLET DEG F
 9 A10019 PANEL NO 11 PRIME TUBE INLET DEG F
 10 A10020 PANEL NO 12 PRIME TUBE INLET DEG F



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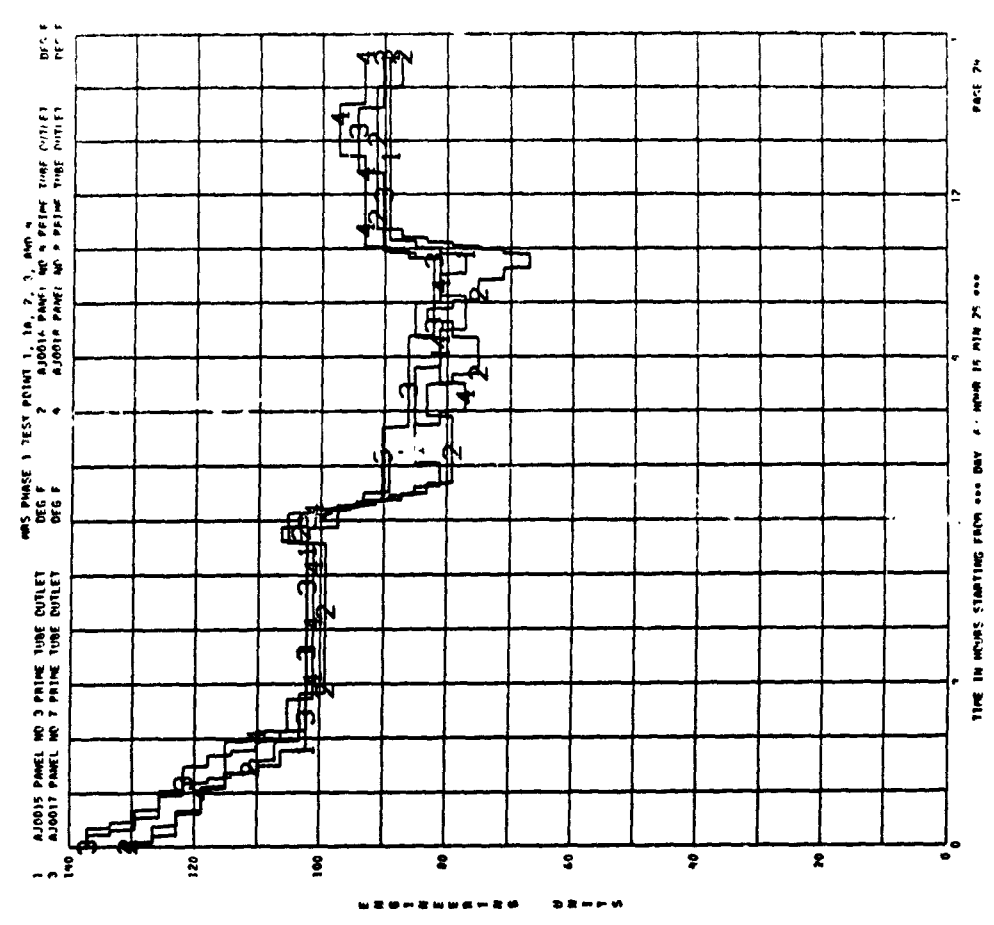
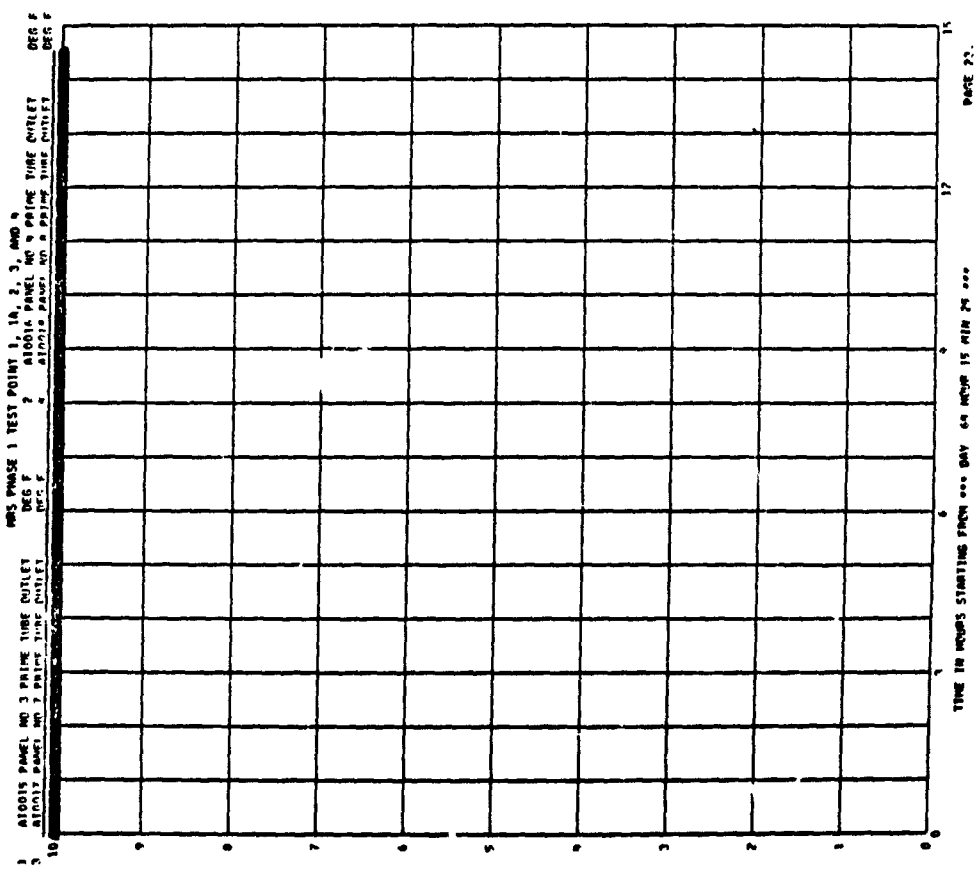
1 A10011 PANEL NO 3 PRIME TUBE INLET DEG F
 2 A10012 PANEL NO 4 PRIME TUBE INLET DEG F
 3 A10013 PANEL NO 5 PRIME TUBE INLET DEG F
 4 A10014 PANEL NO 6 PRIME TUBE INLET DEG F
 5 A10015 PANEL NO 7 PRIME TUBE INLET DEG F
 6 A10016 PANEL NO 8 PRIME TUBE INLET DEG F
 7 A10017 PANEL NO 9 PRIME TUBE INLET DEG F
 8 A10018 PANEL NO 10 PRIME TUBE INLET DEG F
 9 A10019 PANEL NO 11 PRIME TUBE INLET DEG F
 10 A10020 PANEL NO 12 PRIME TUBE INLET DEG F

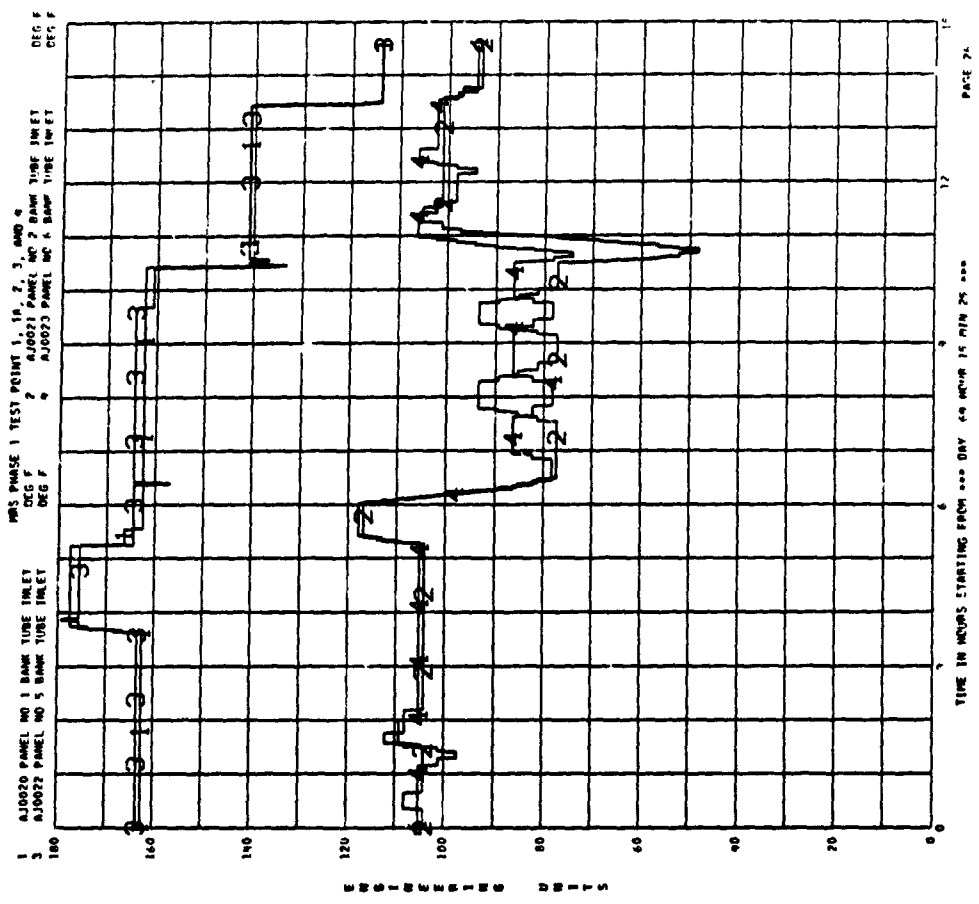
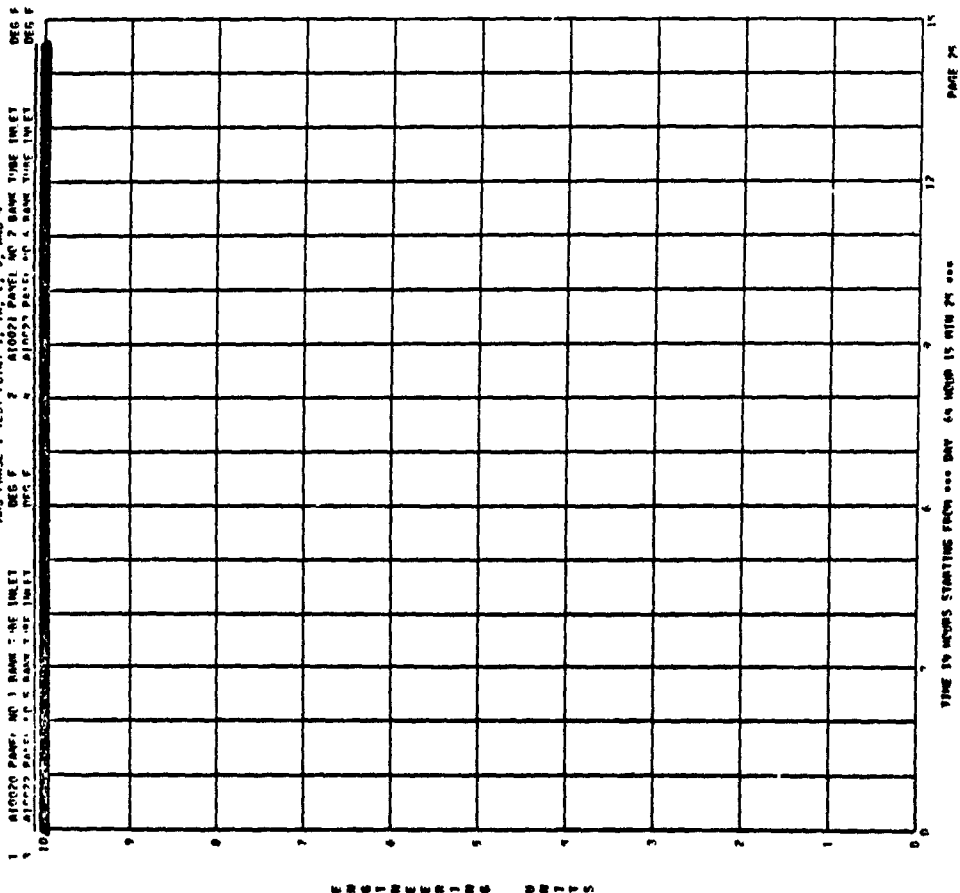


PAGE 27.

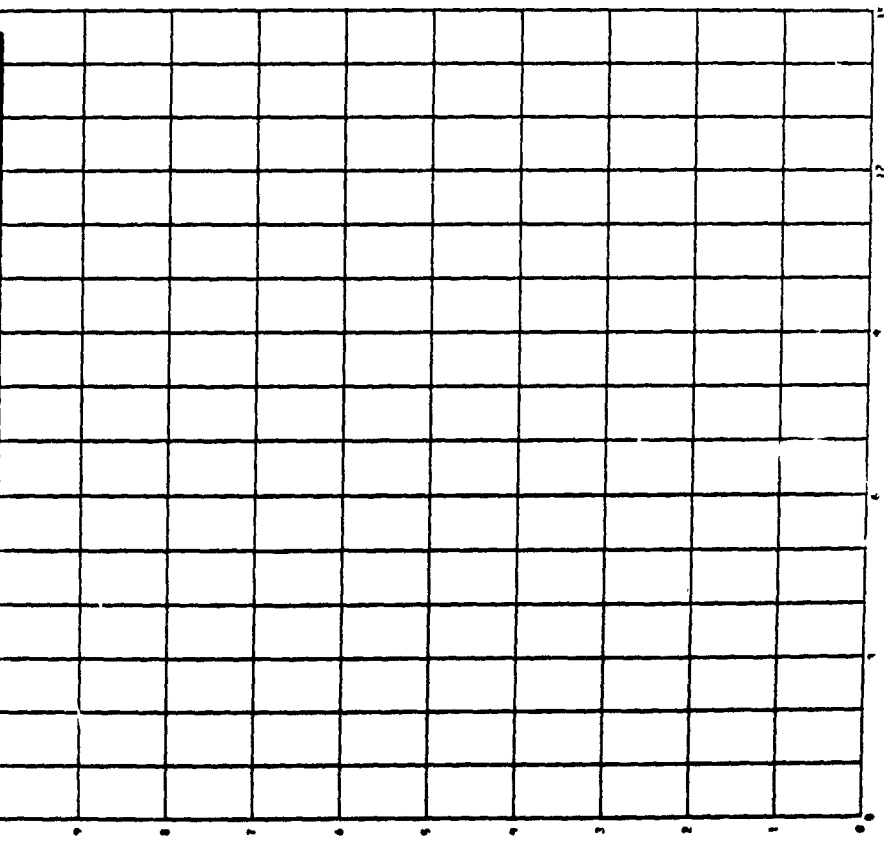
TEMPERATURE

TEMPERATURE



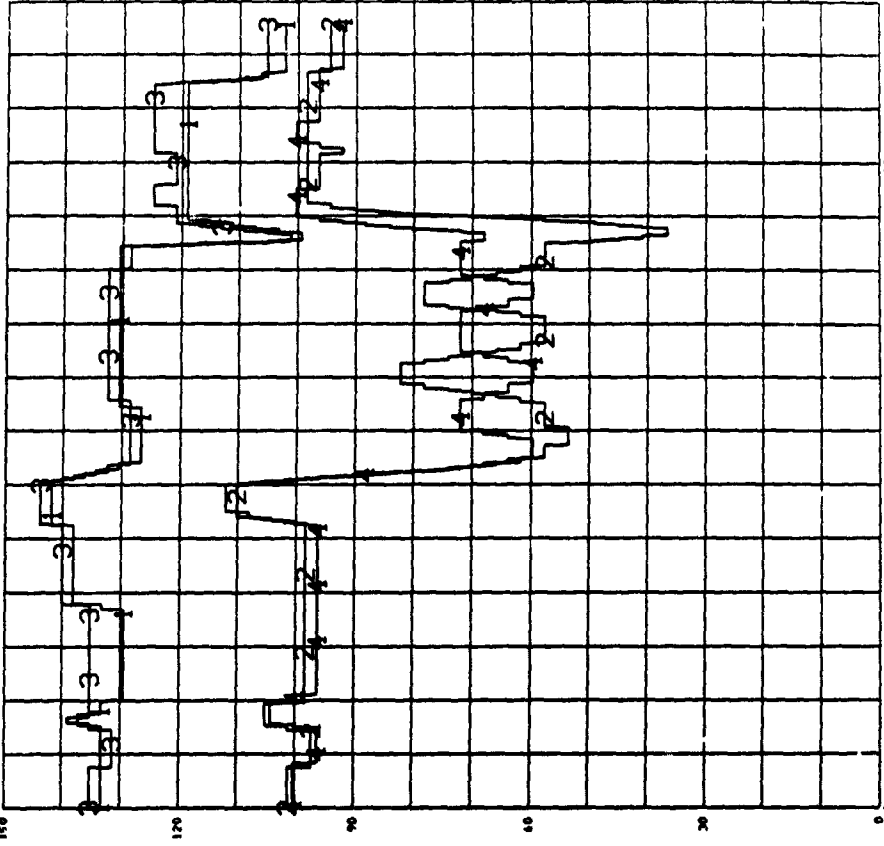


1 AJ0024 PANEL NO 1 BANK TUBE OUTLET DEG F
 2 AJ0025 PANEL NO 2 BANK TUBE OUTLET DEG F
 3 AJ0026 PANEL NO 5 BANK TUBE OUTLET DEG F
 4 AJ0027 PANEL NO 4 BANK TUBE OUTLET DEG F

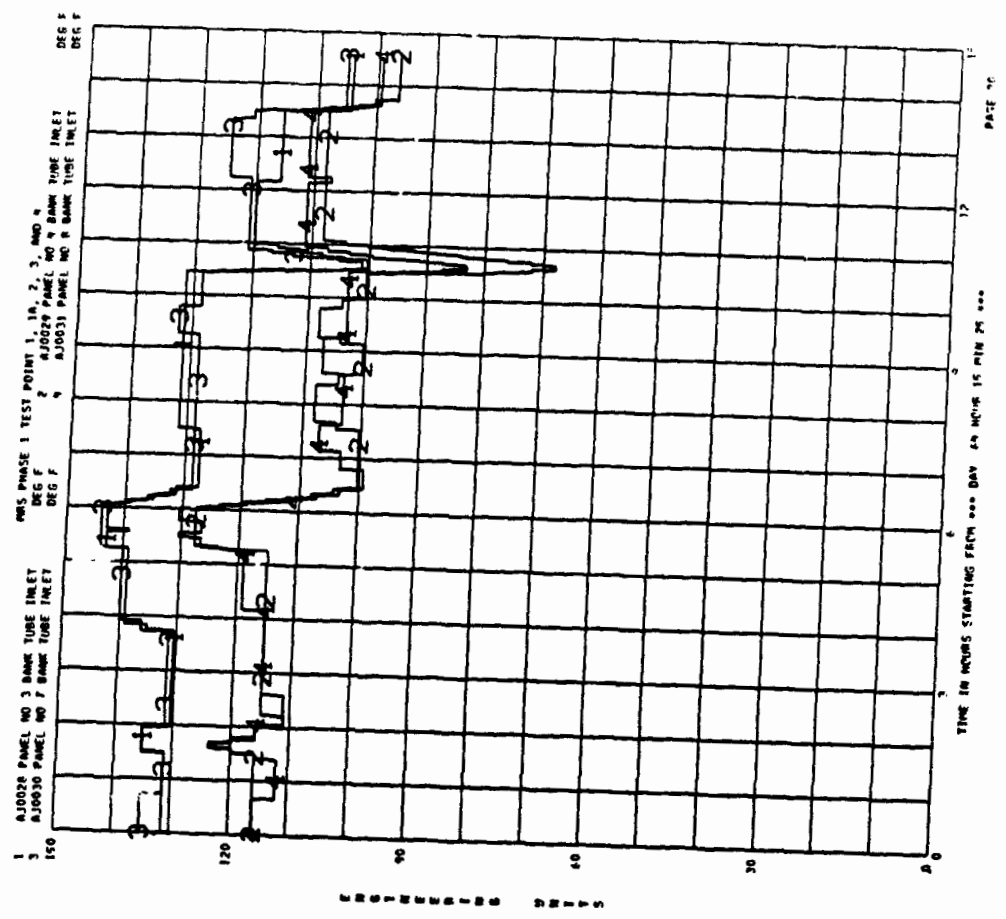
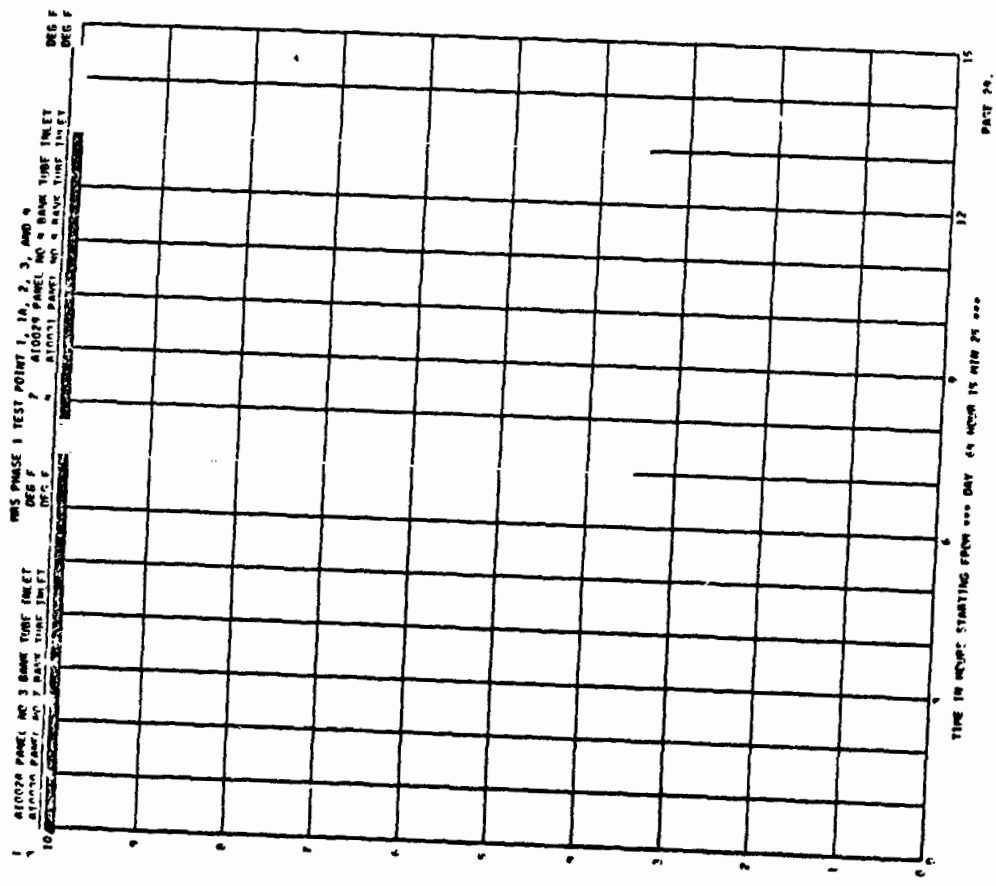


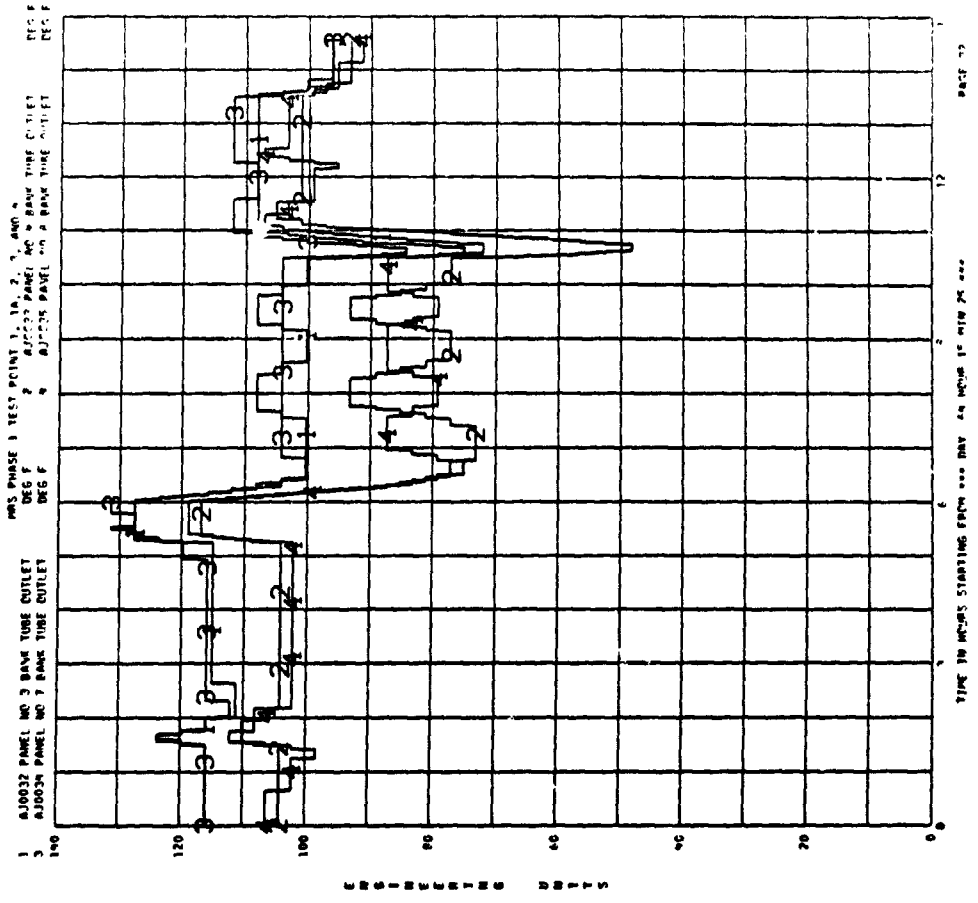
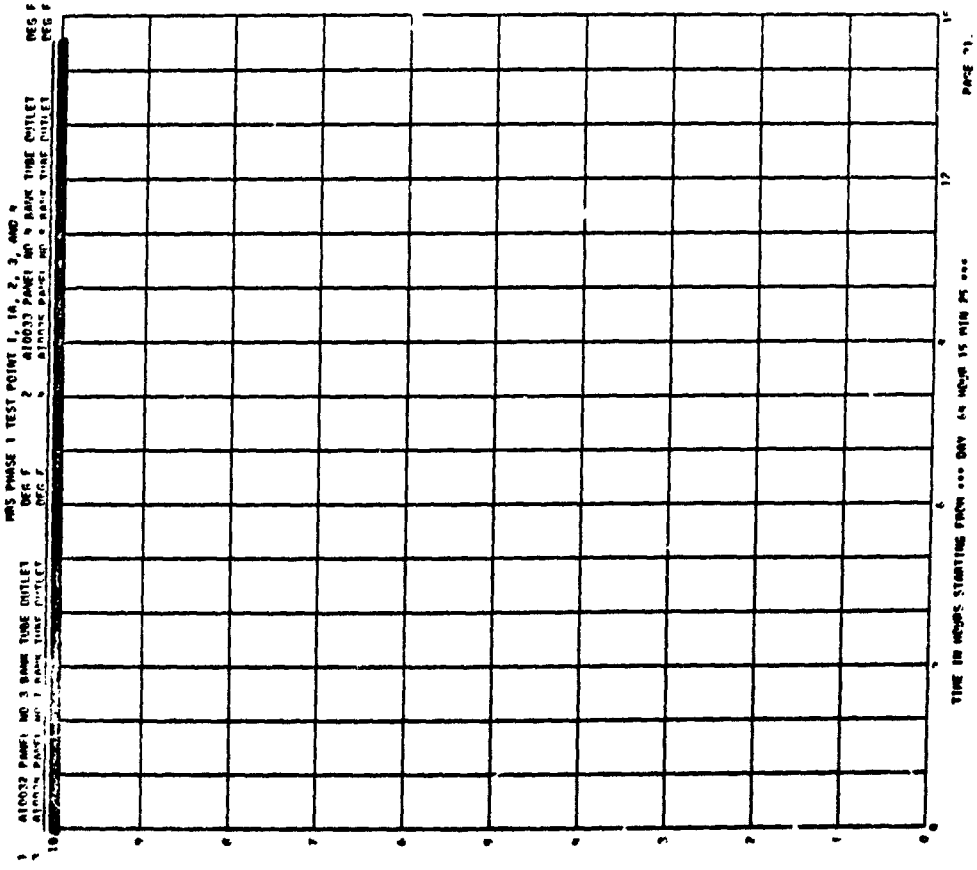
TIME IN HOURS STARTING FROM ... DAY ... HOUR 15 MIN 24 ...
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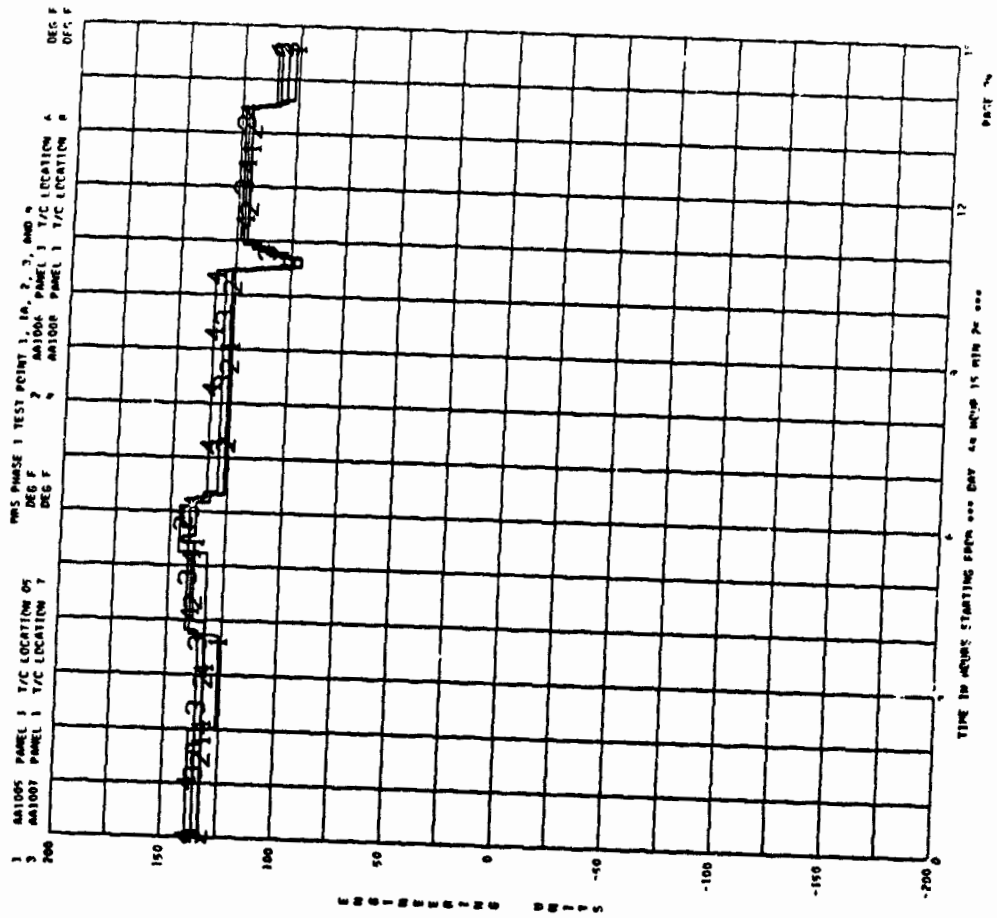
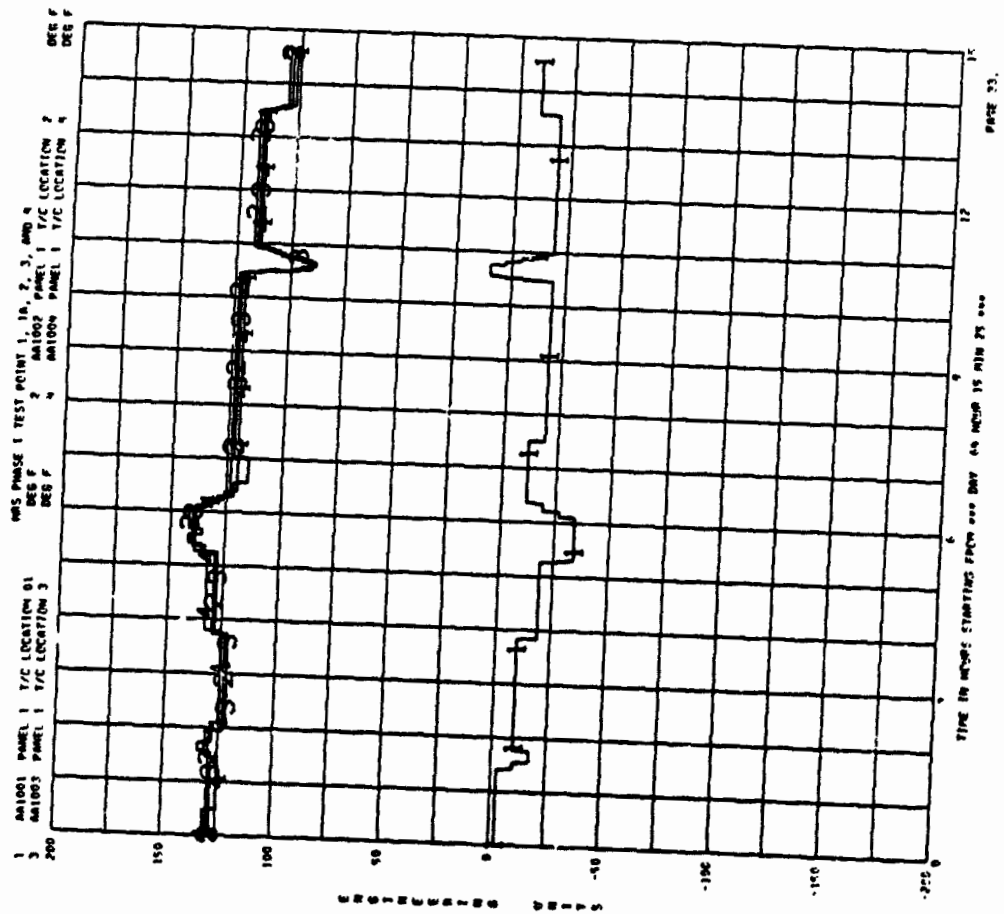
WRS PHASE 1 TEST POINT 1, 1A, 2, 3, AND 4
 1 AJ0024 PANEL NO 1 BANK TUBE OUTLET DEG F
 2 AJ0025 PANEL NO 2 BANK TUBE OUTLET DEG F
 3 AJ0026 PANEL NO 5 BANK TUBE OUTLET DEG F
 4 AJ0027 PANEL NO 4 BANK TUBE OUTLET DEG F

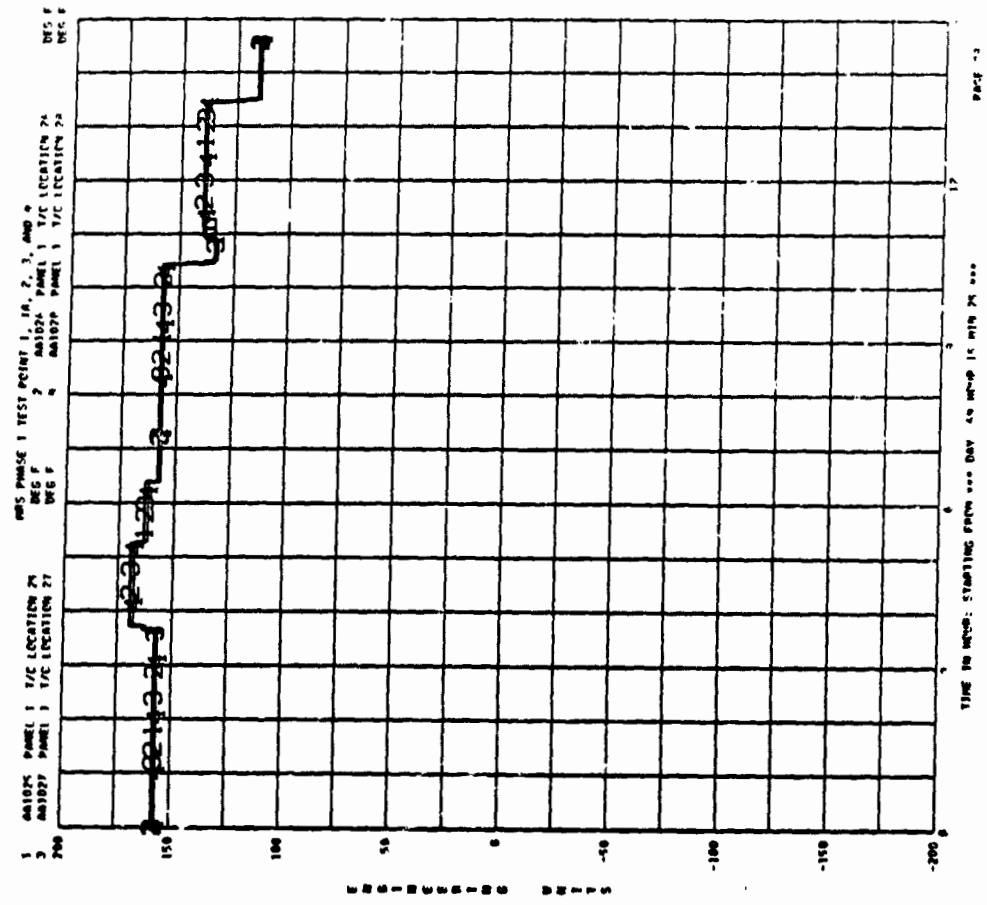
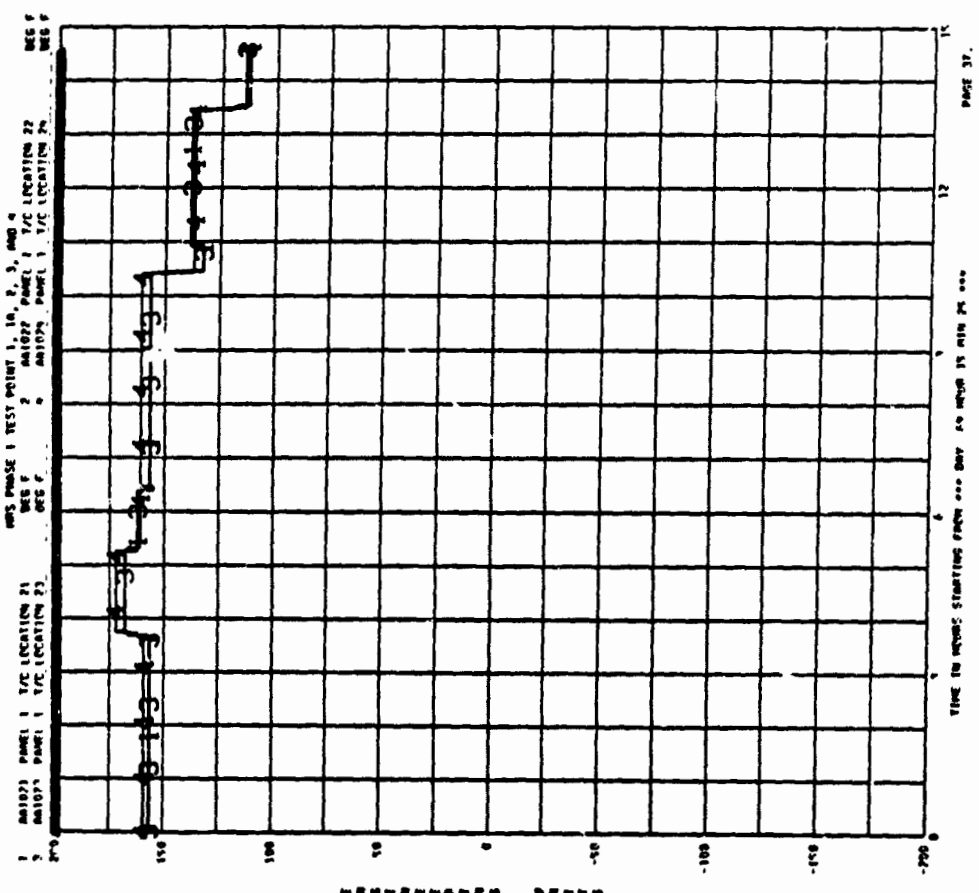


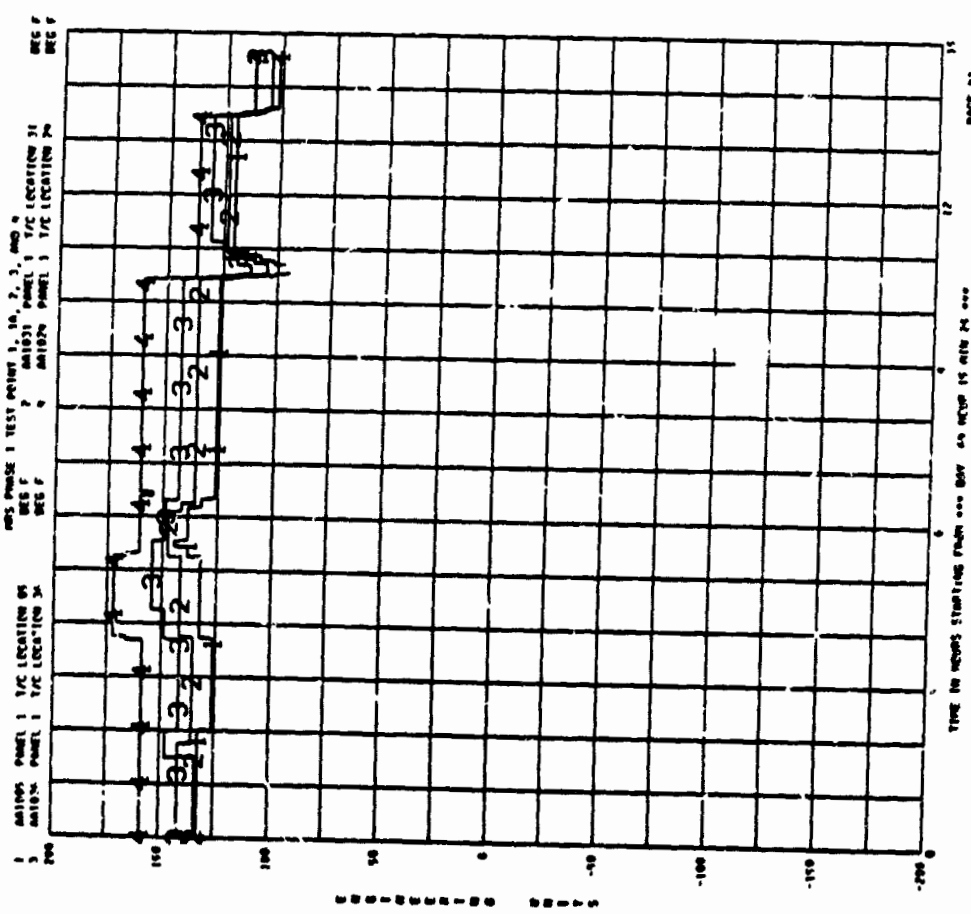
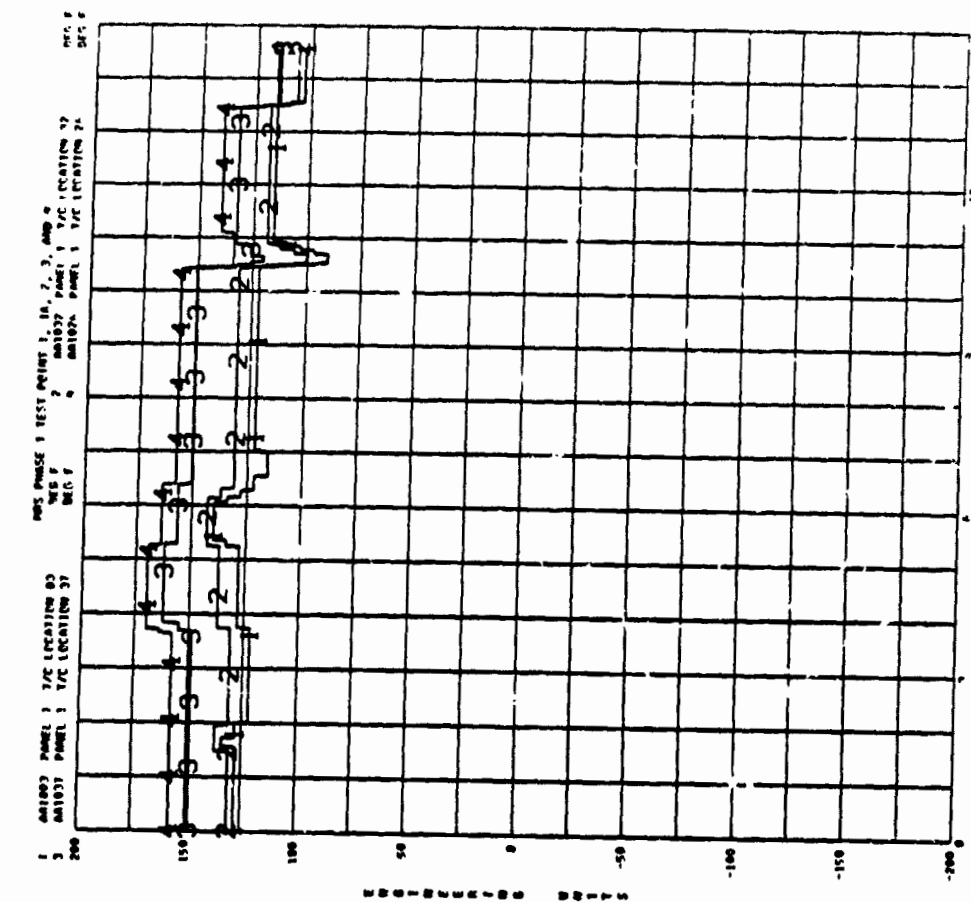
TIME IN HOURS STARTING FROM ... DAY ... HOUR 15 MIN 24 ...
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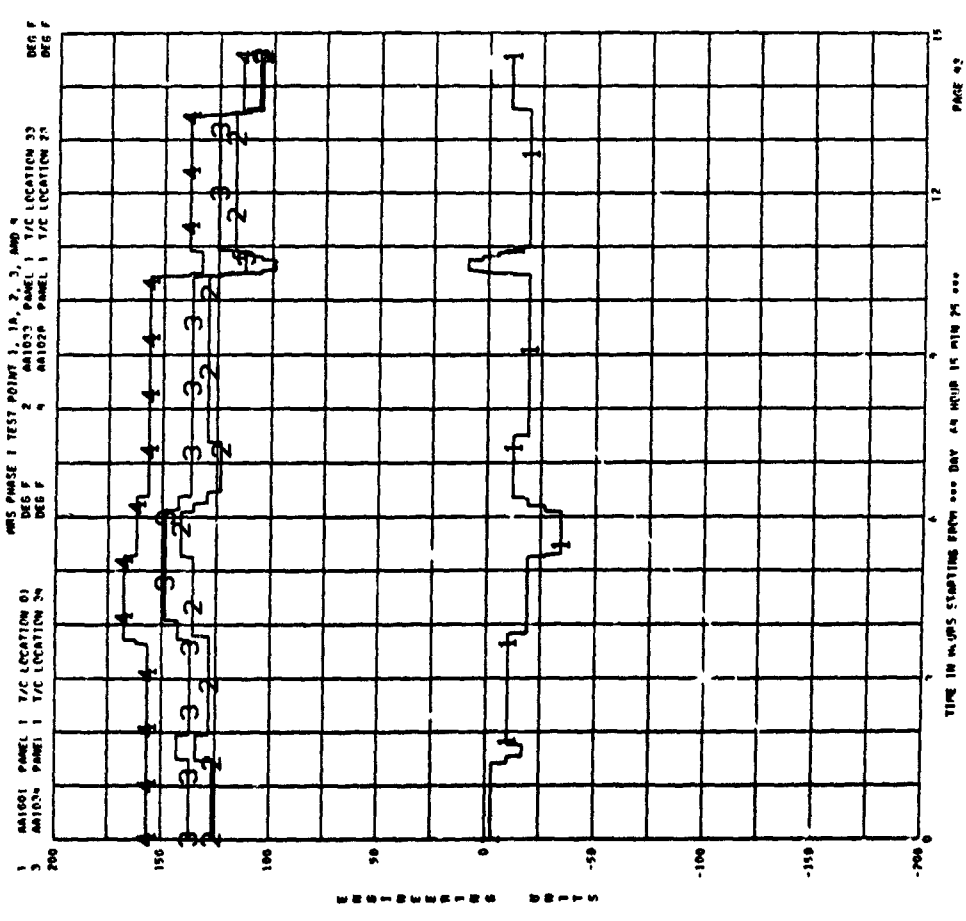
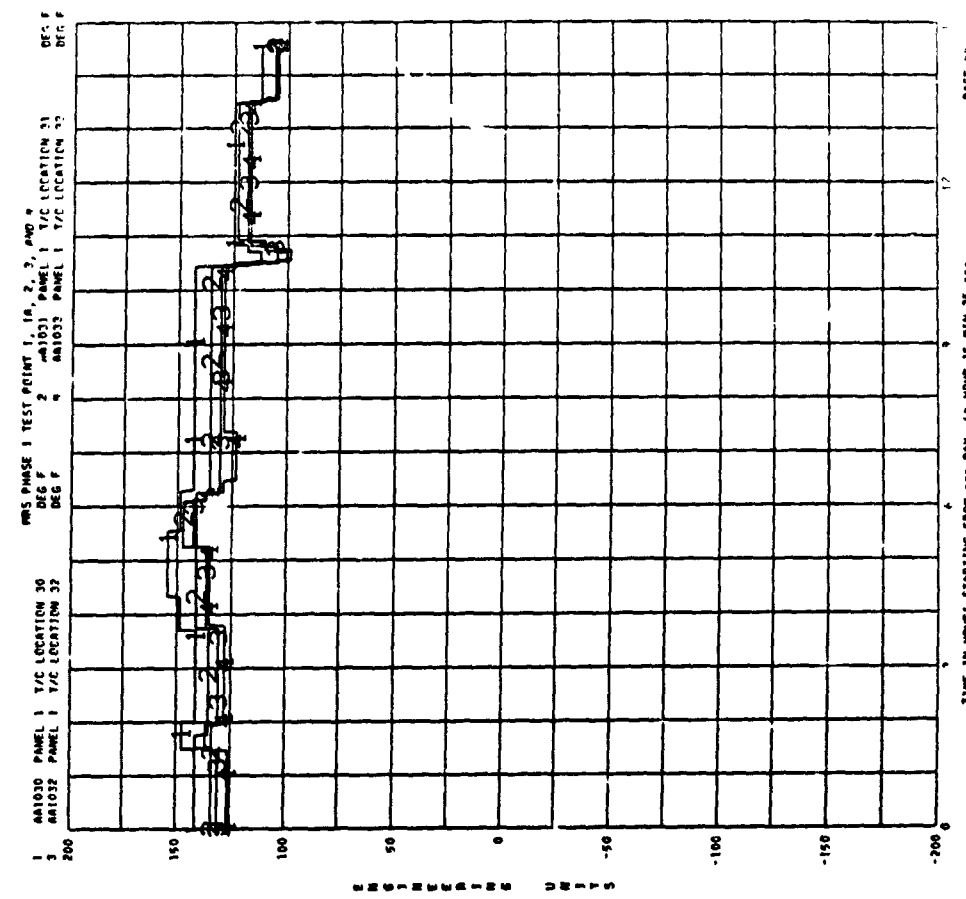


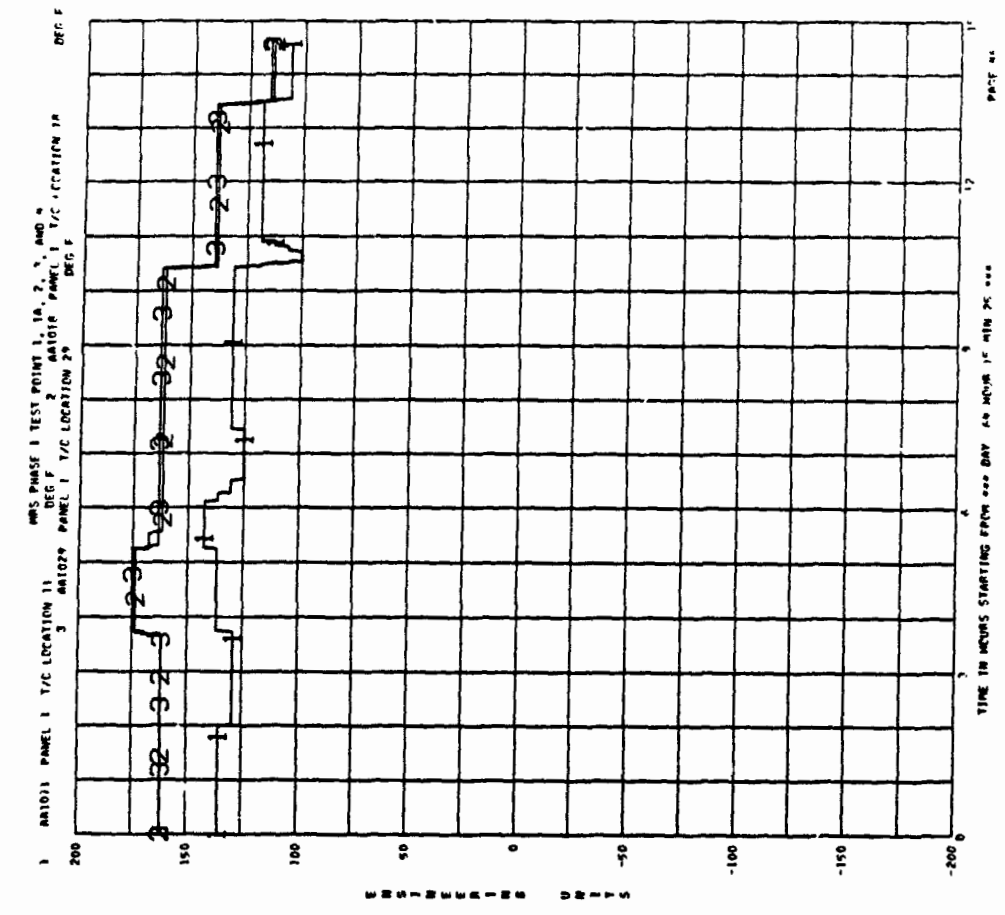
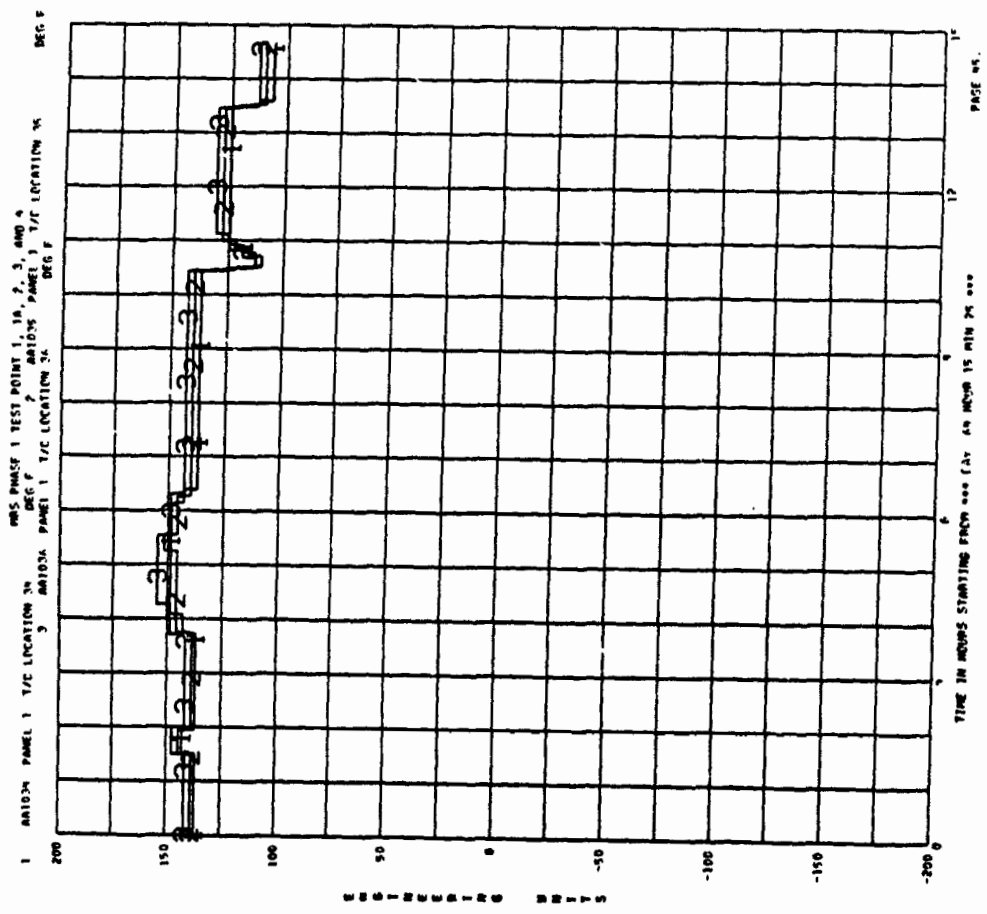


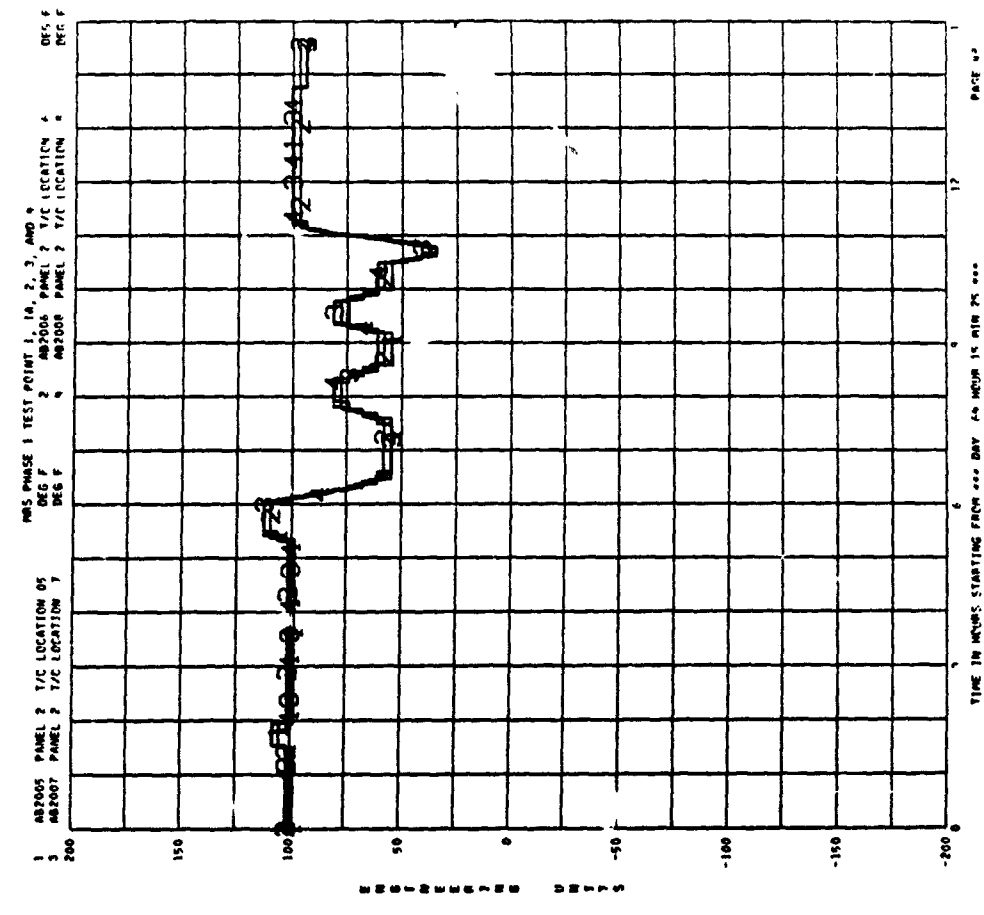
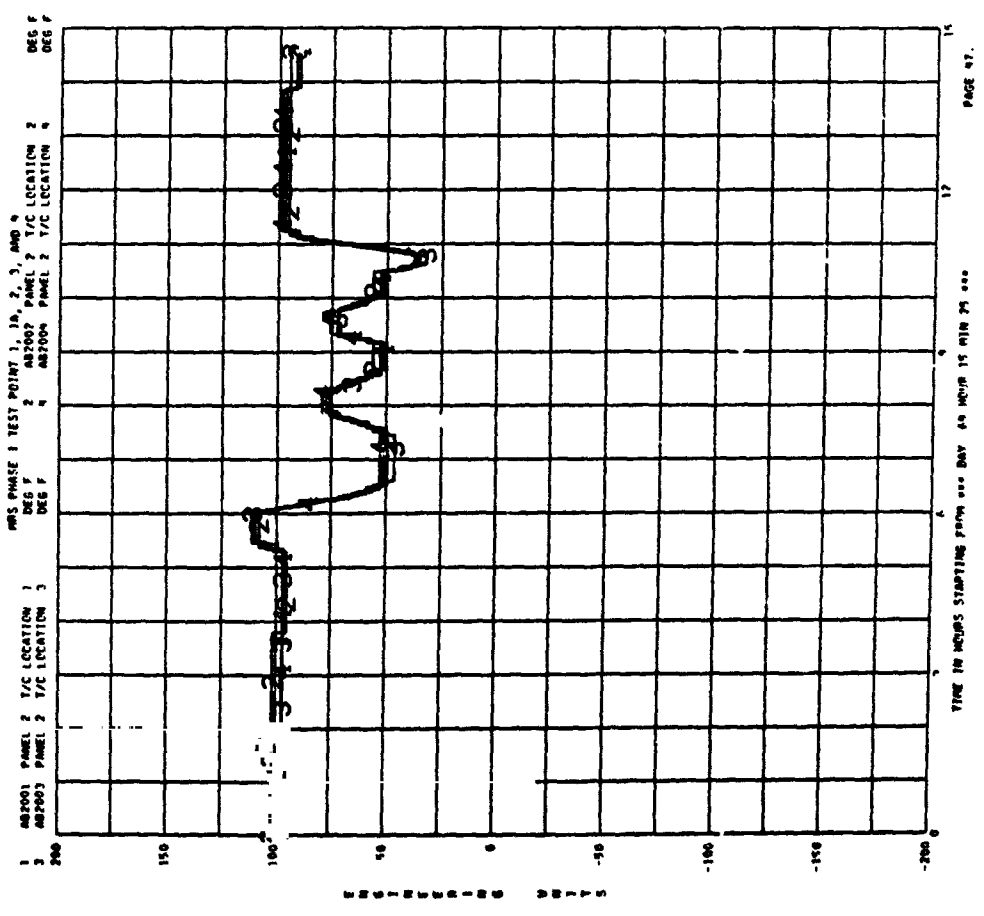


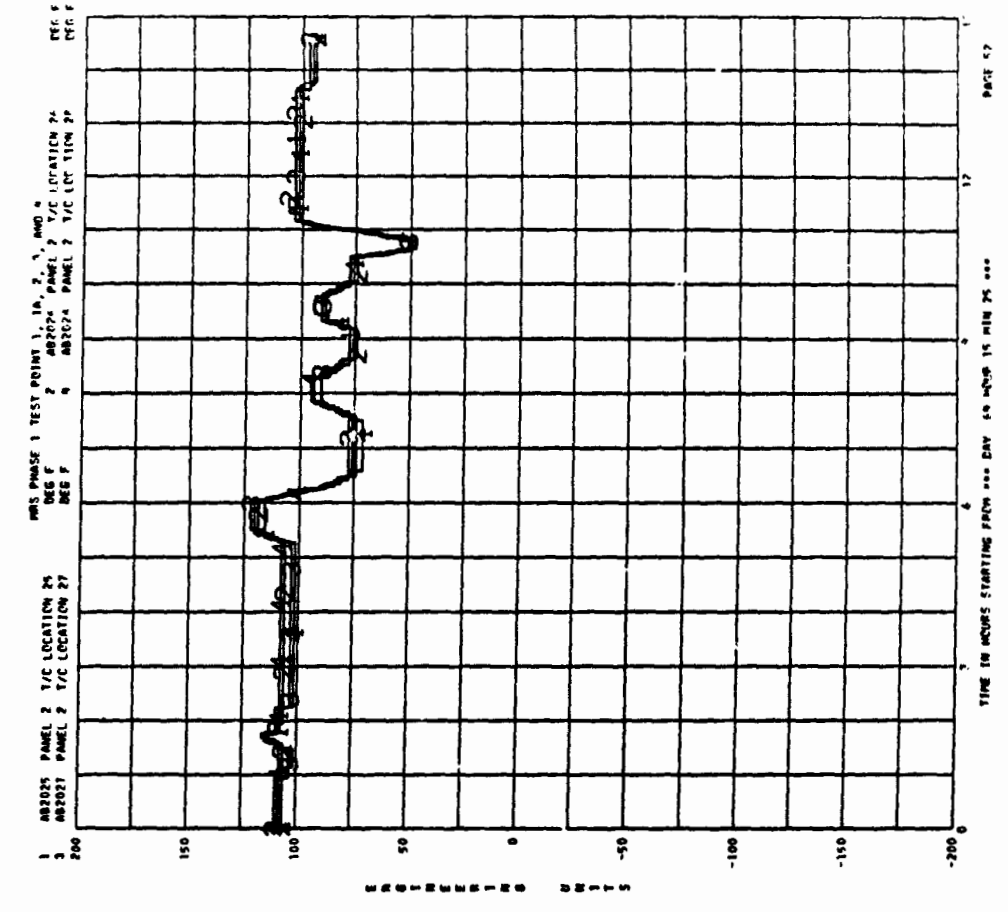
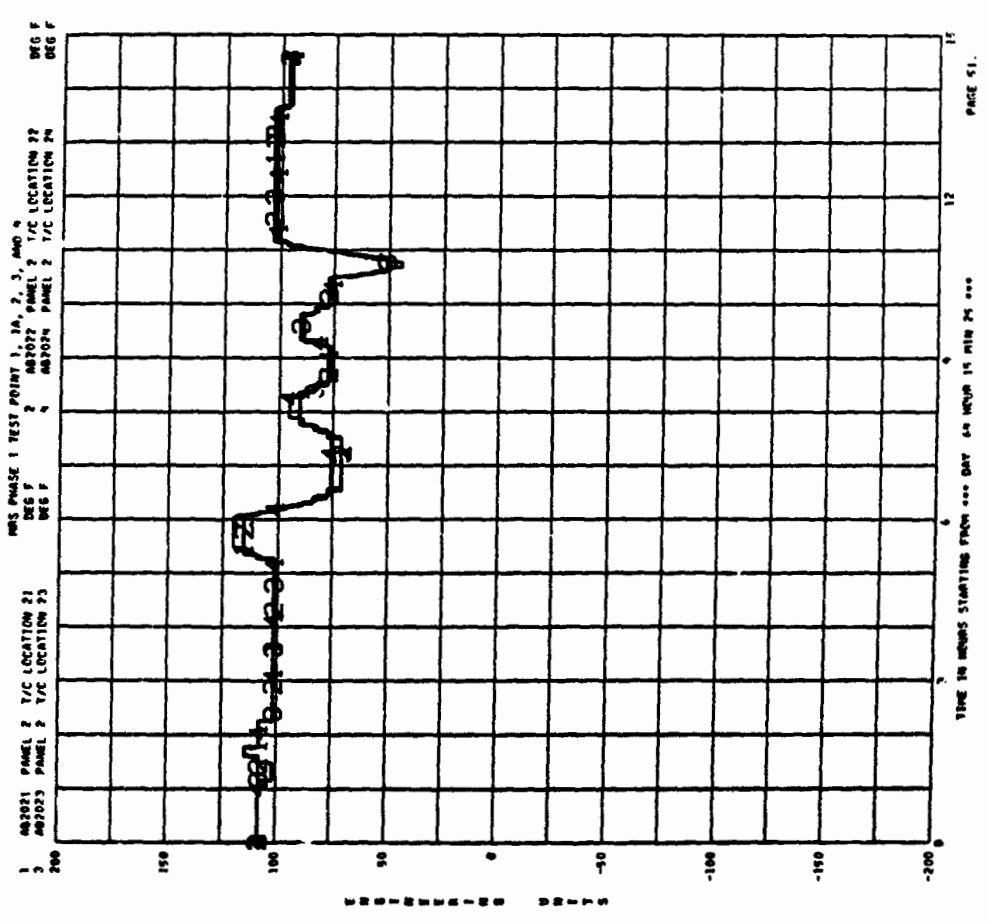


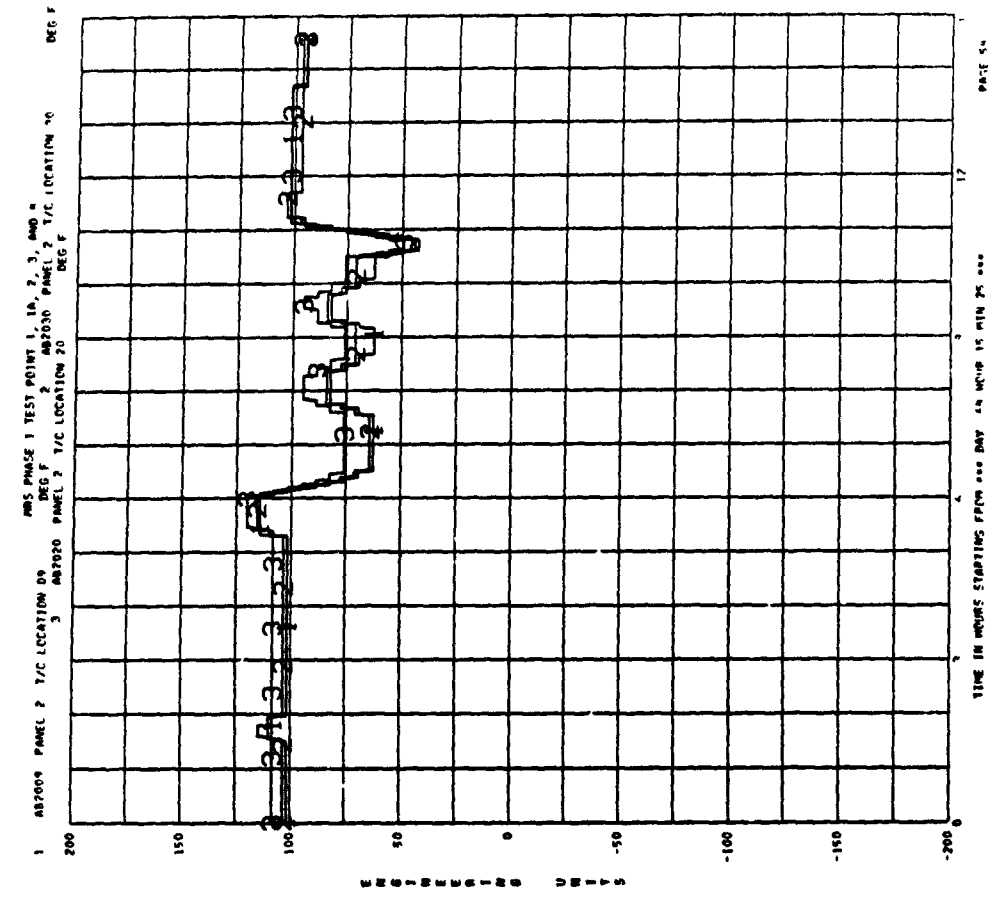
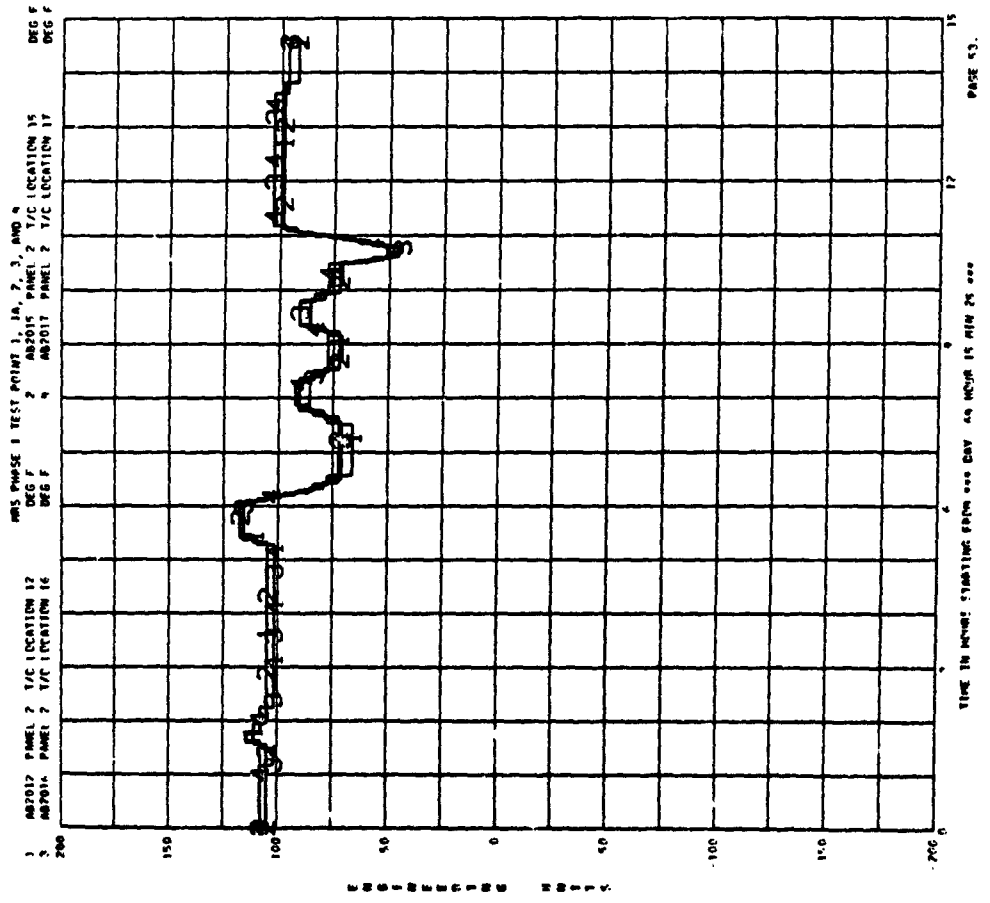


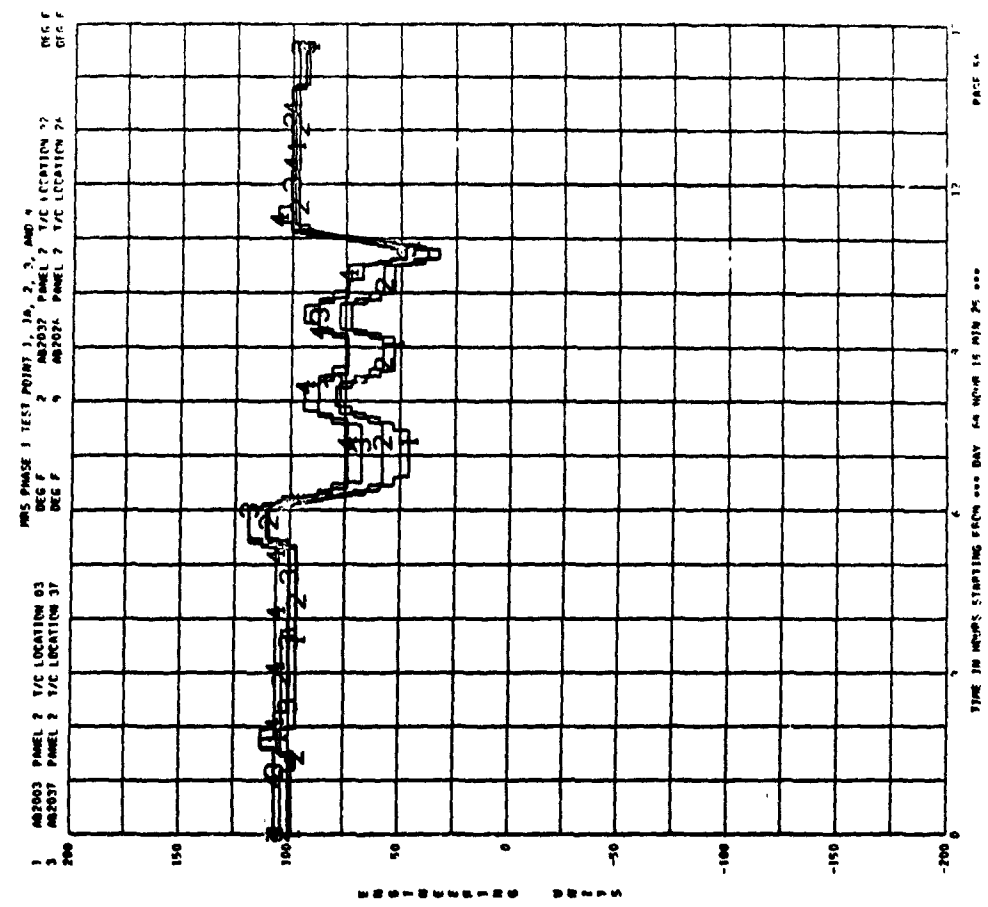
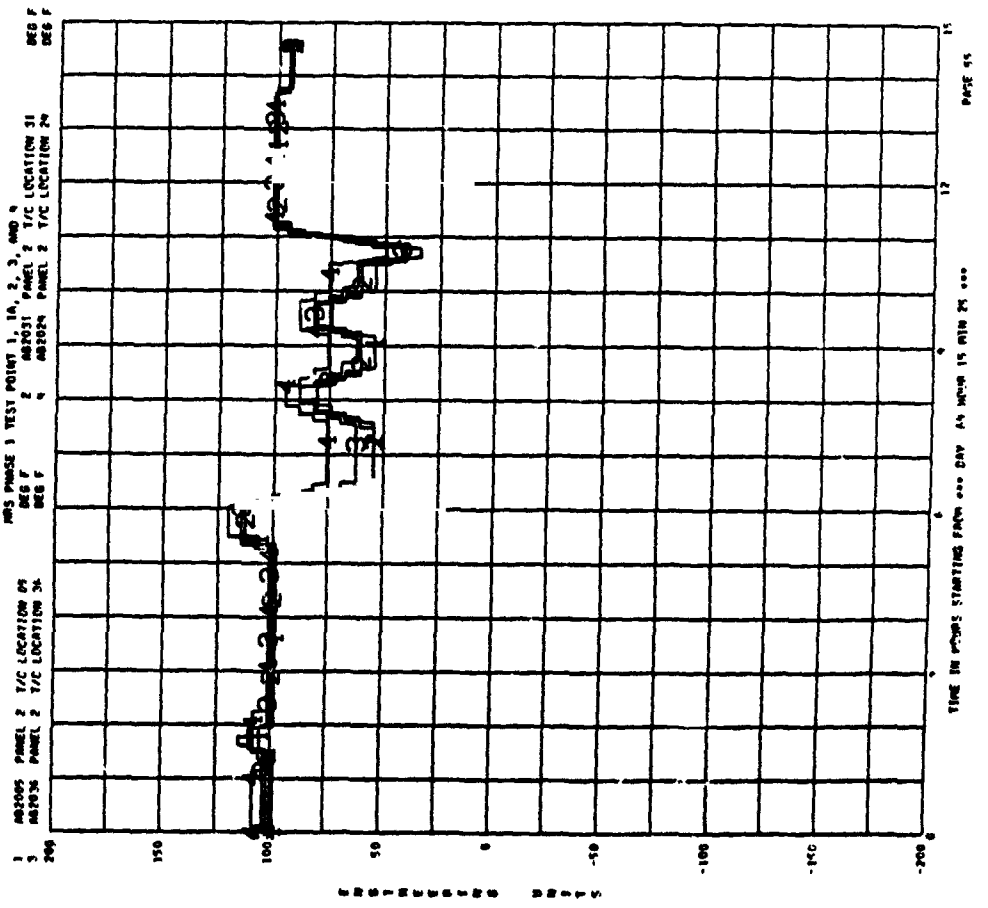


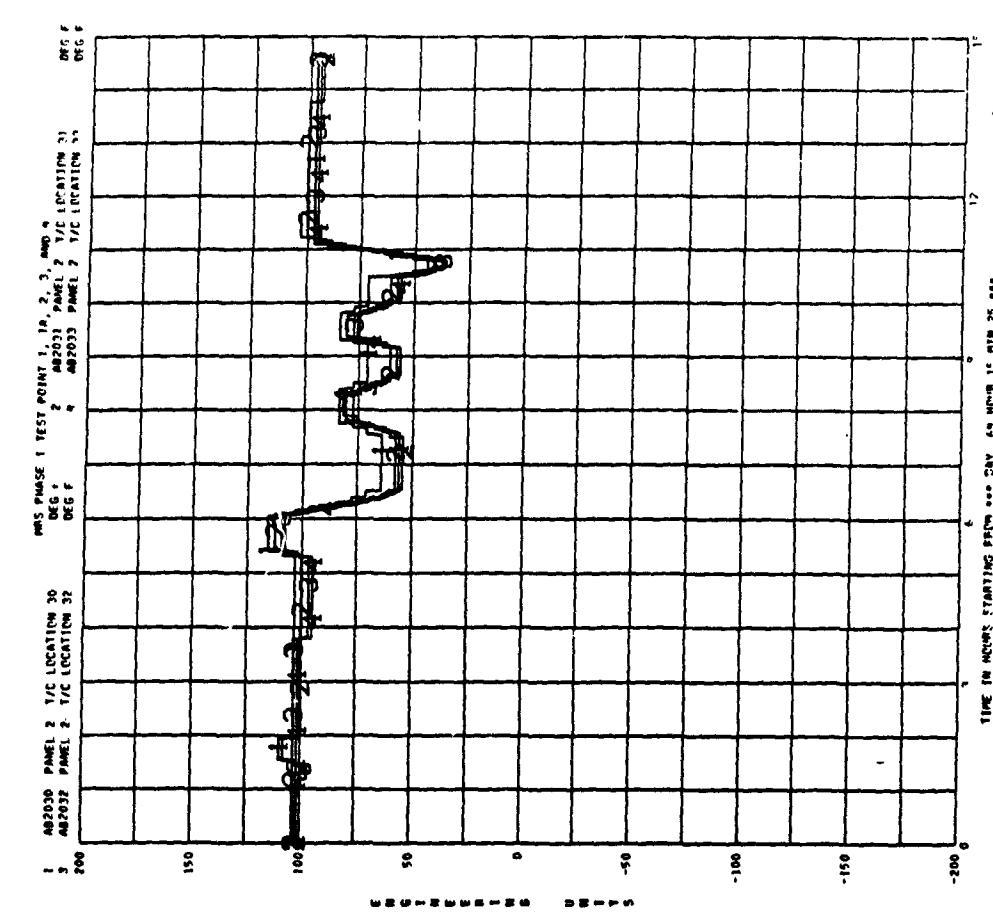
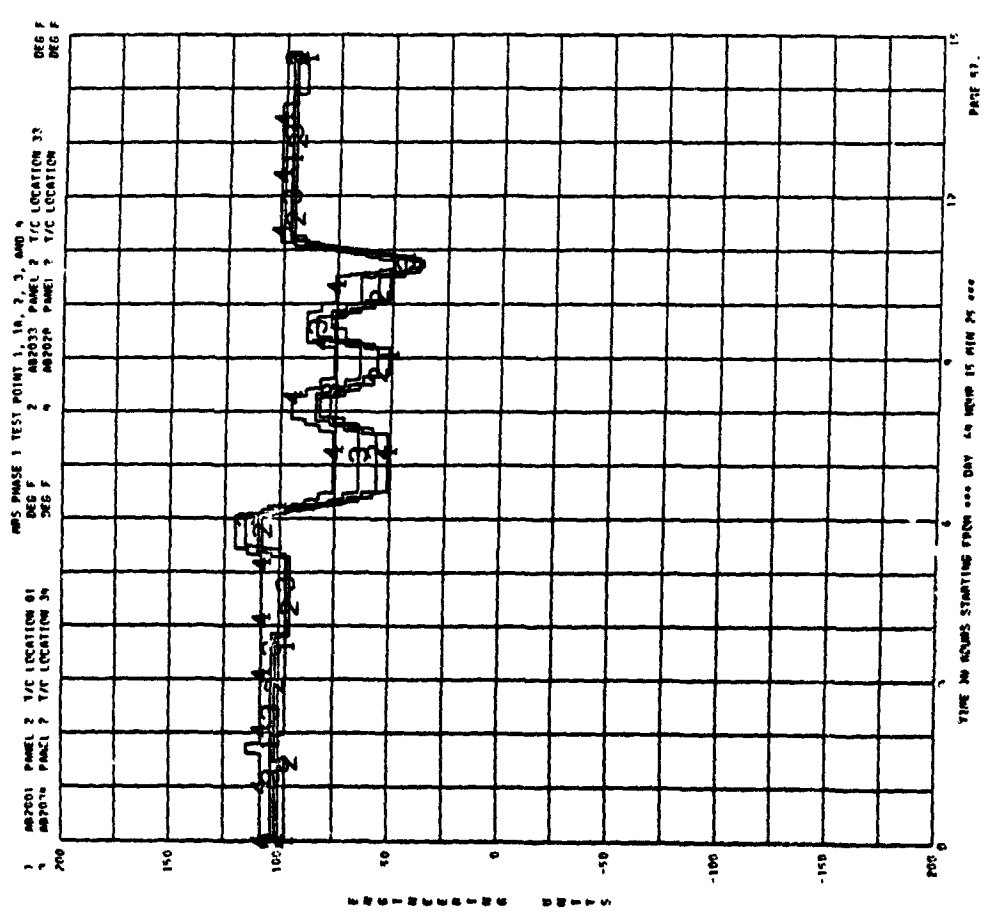


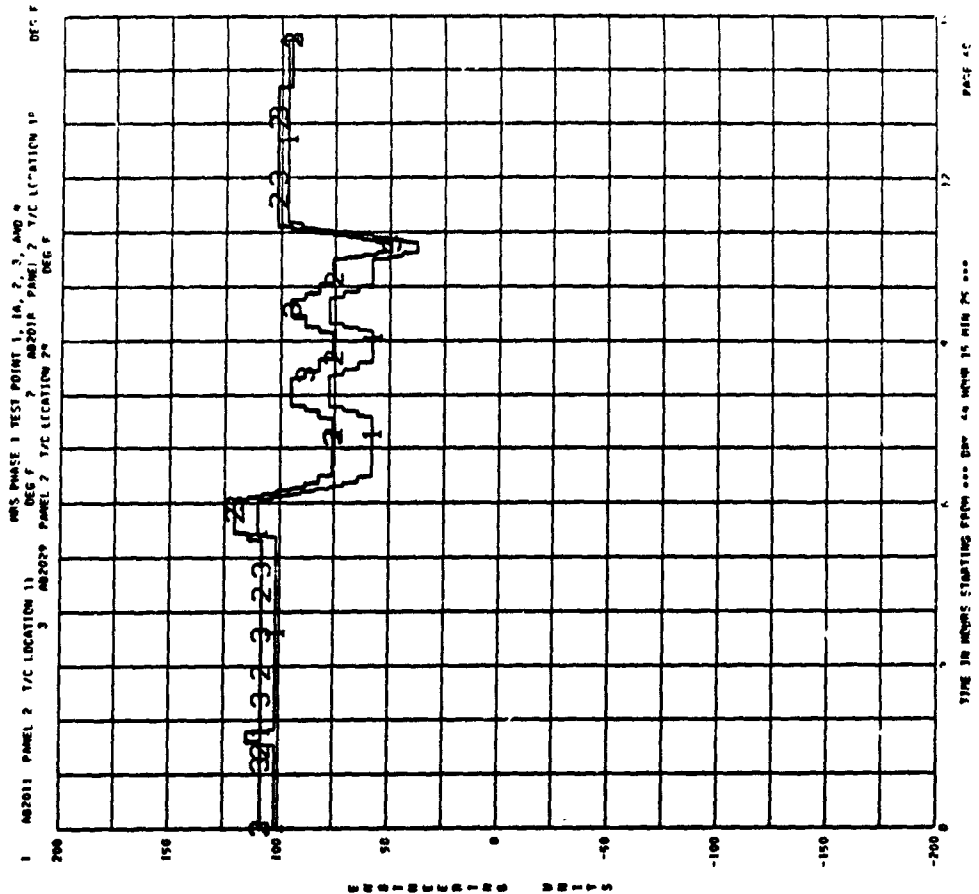
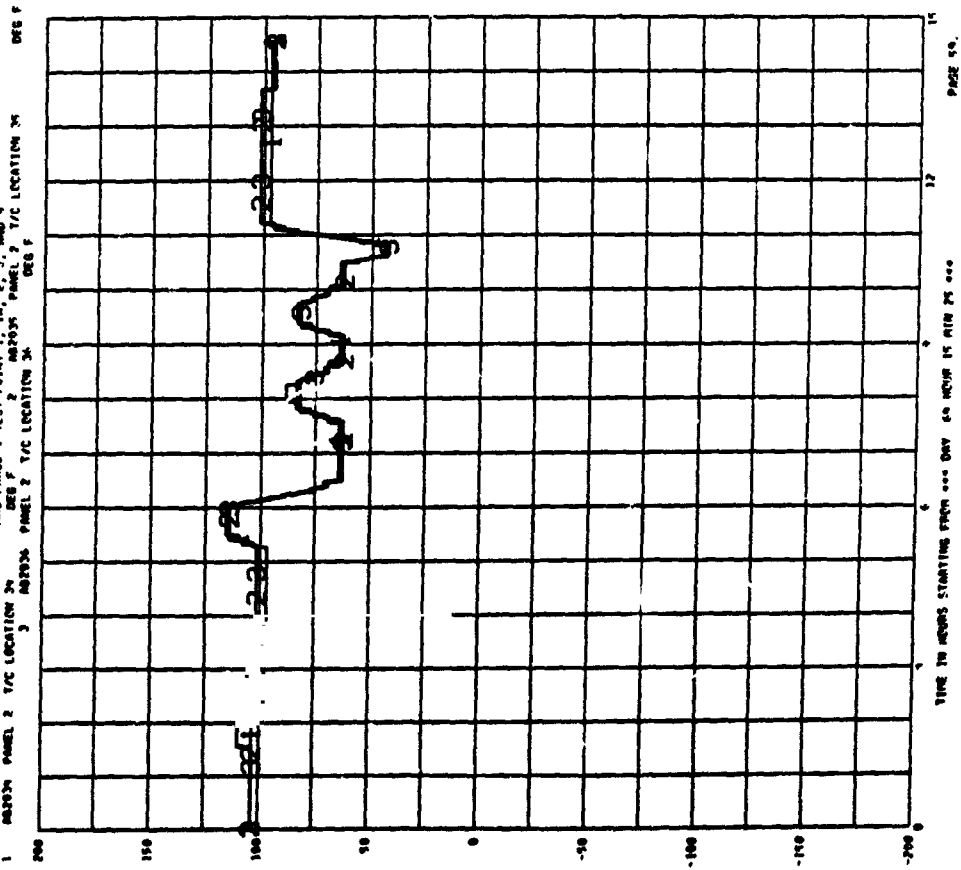


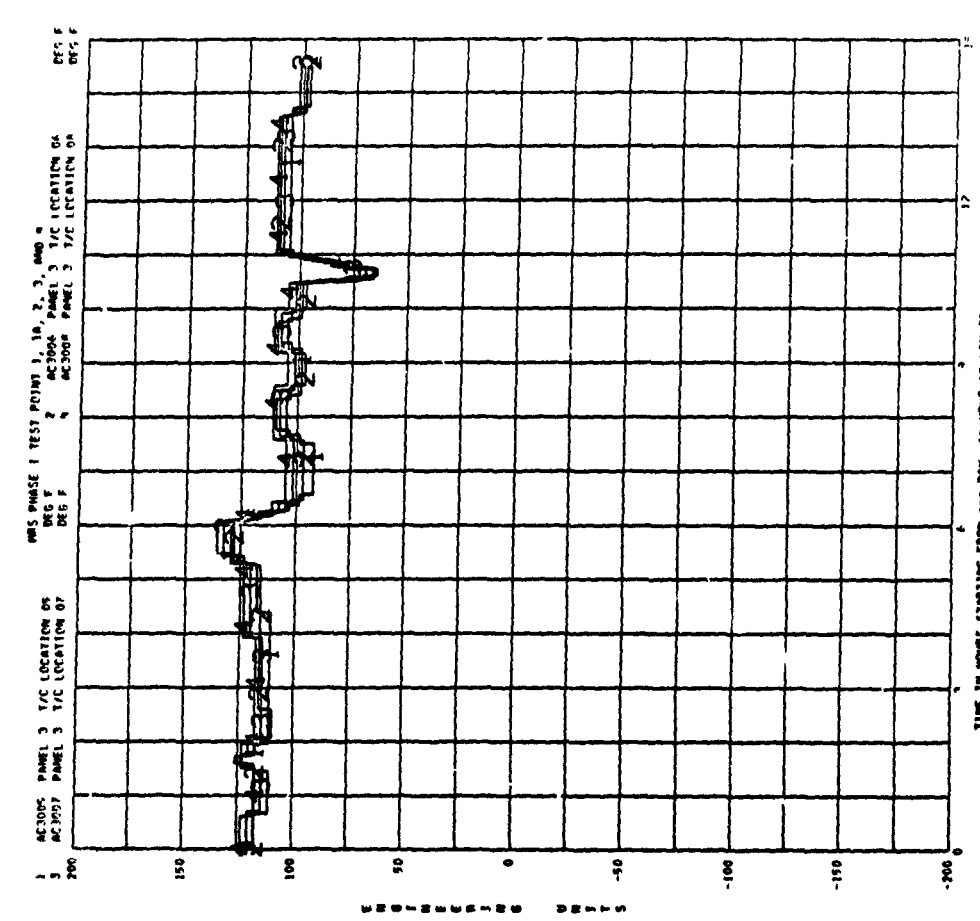
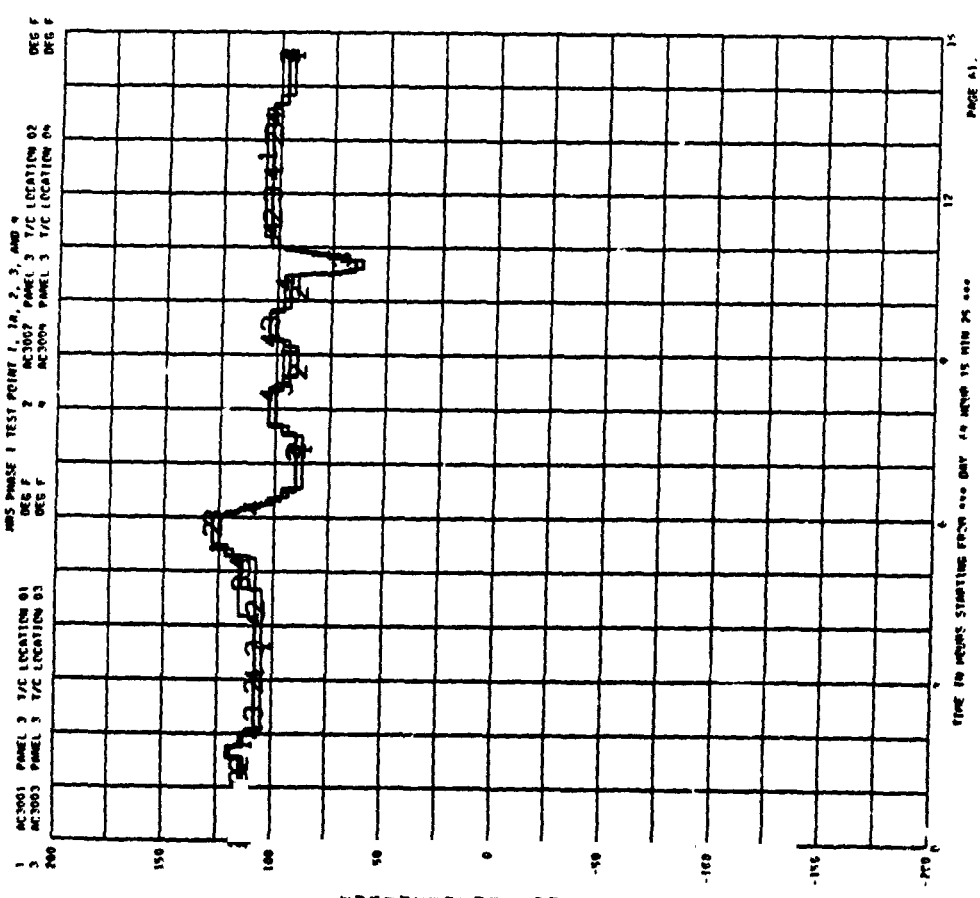


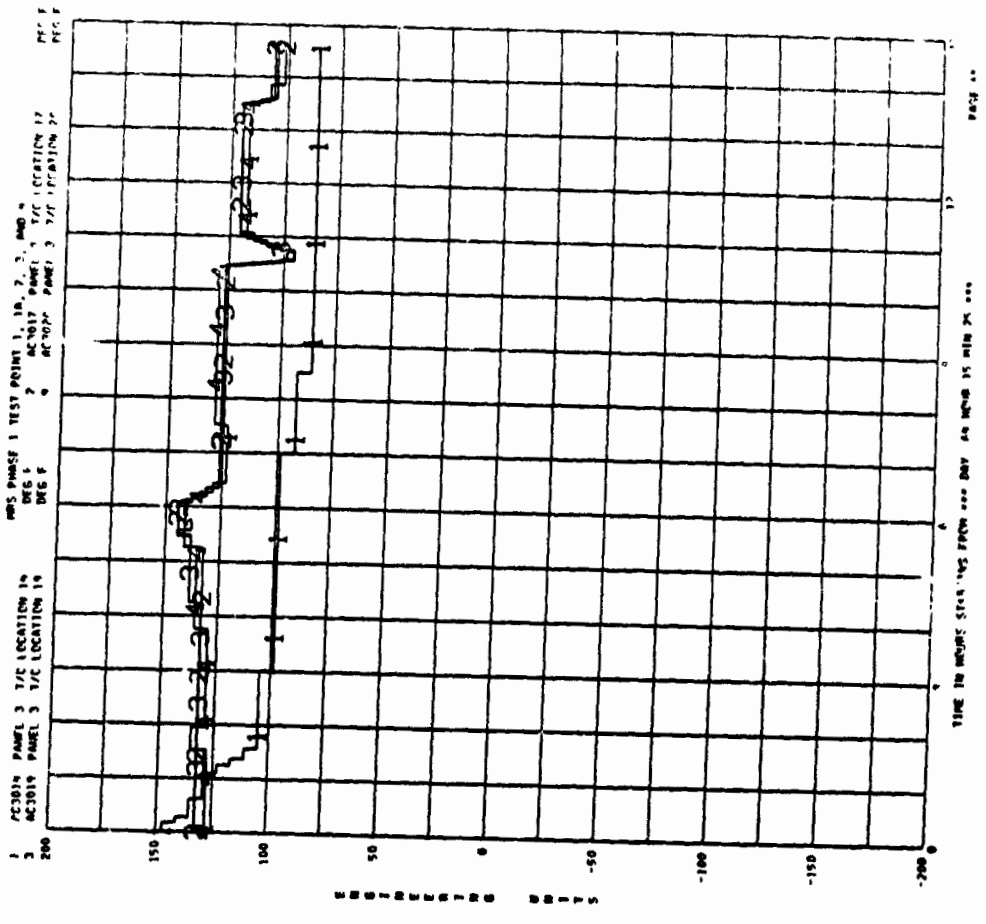
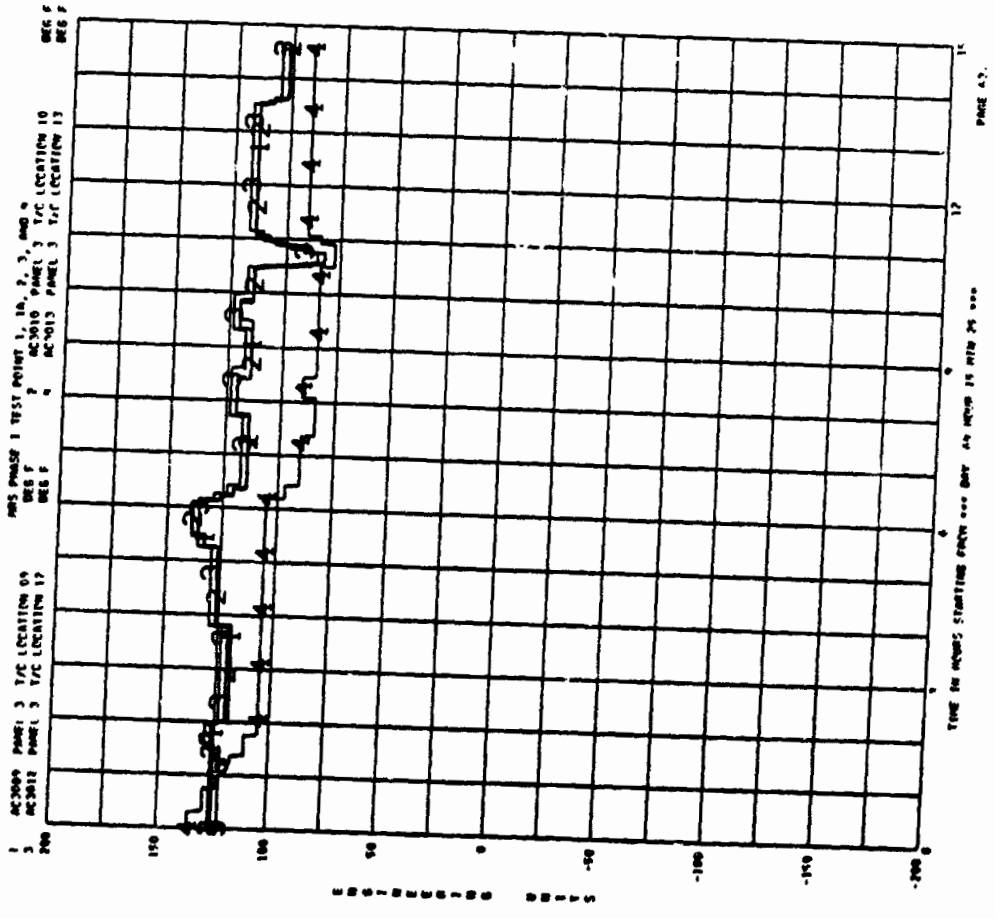


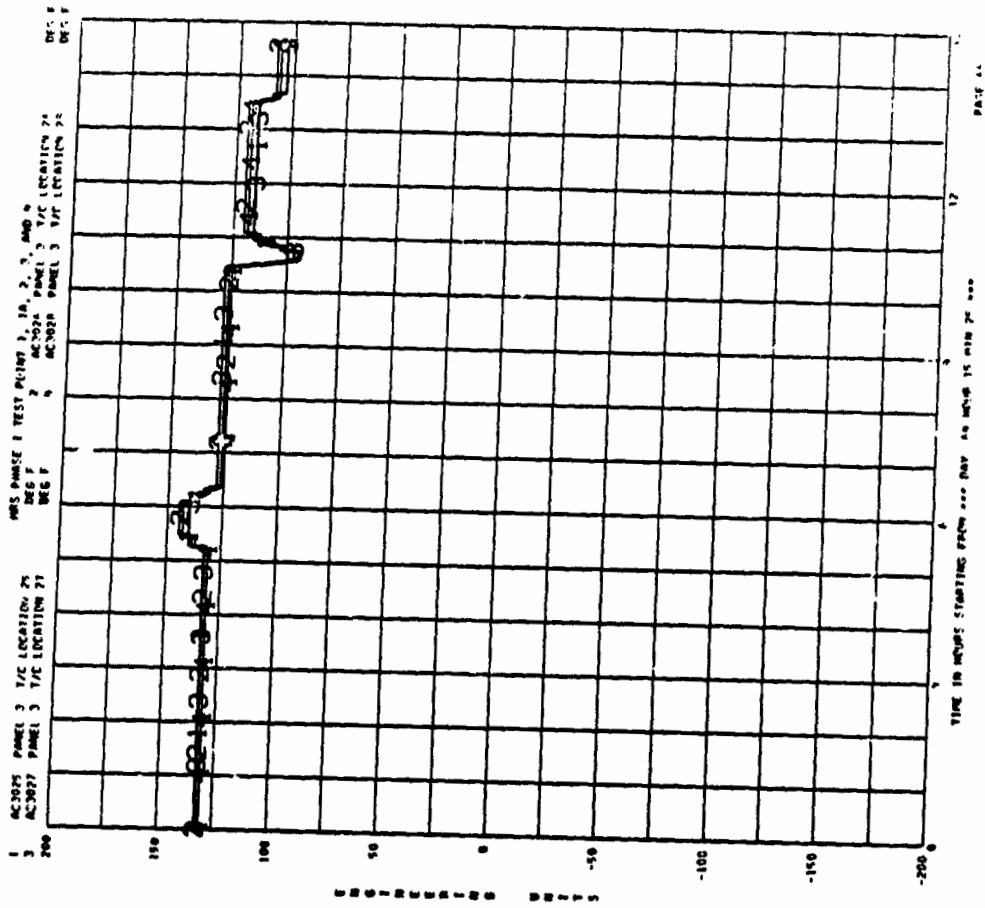
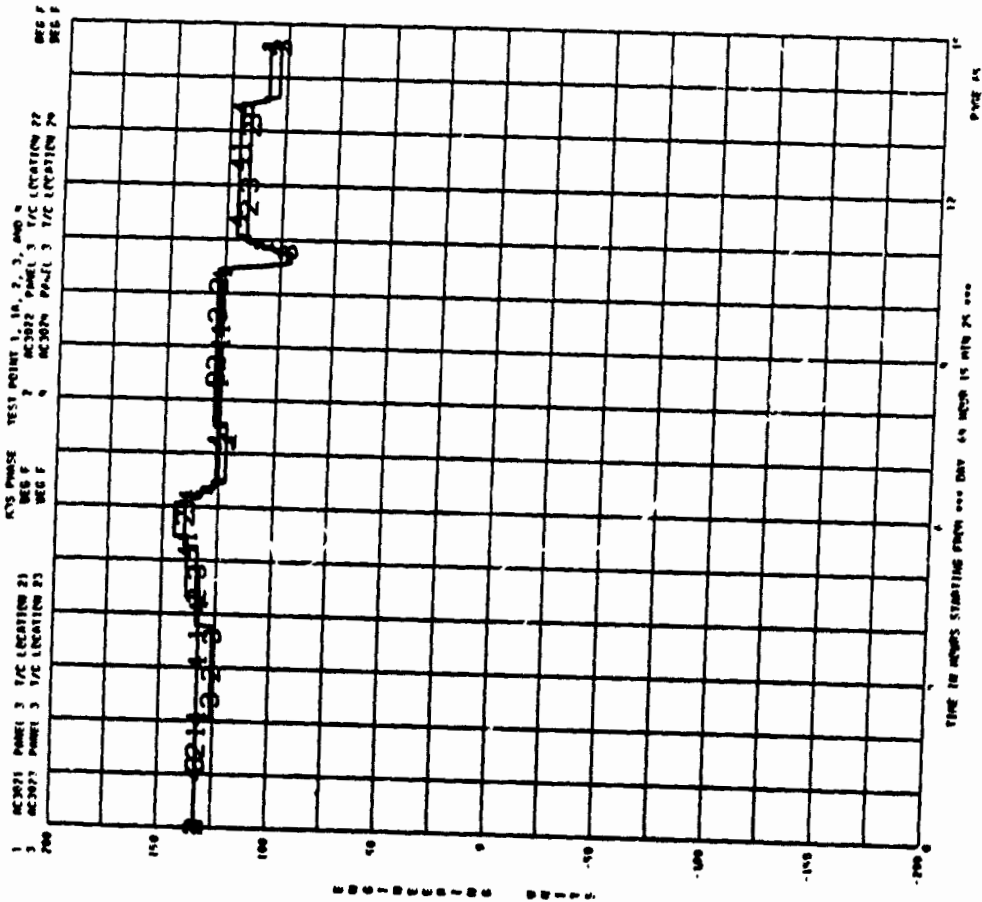


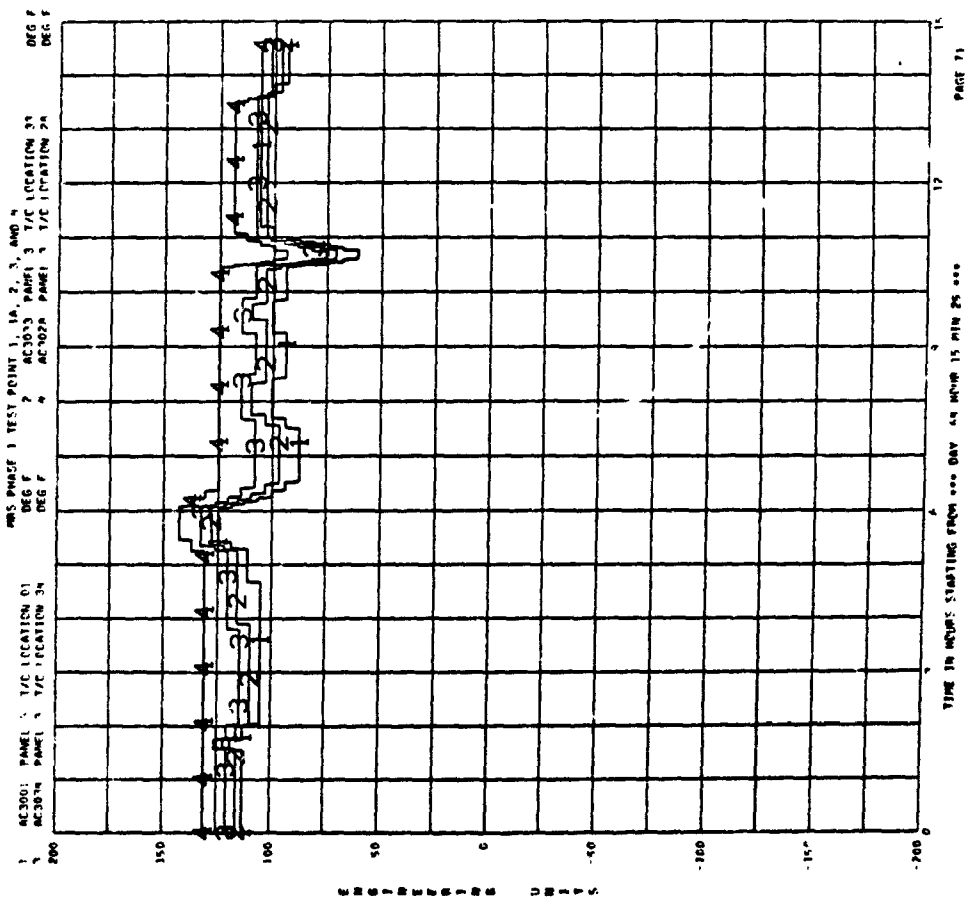
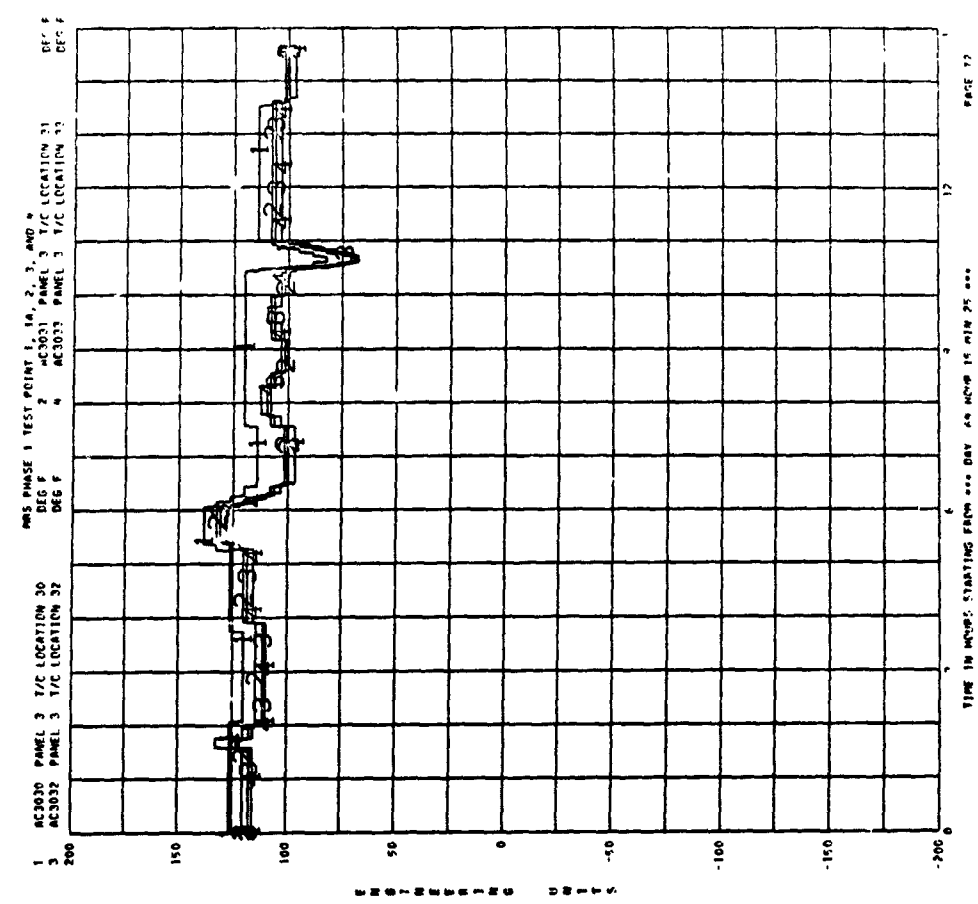




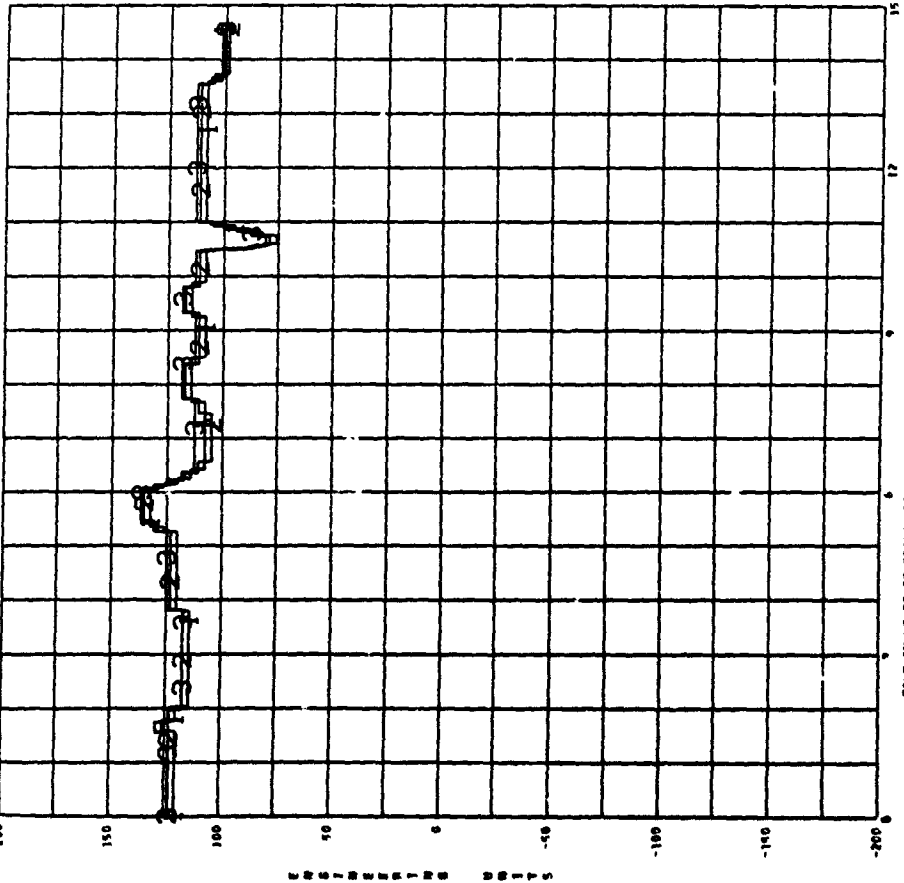






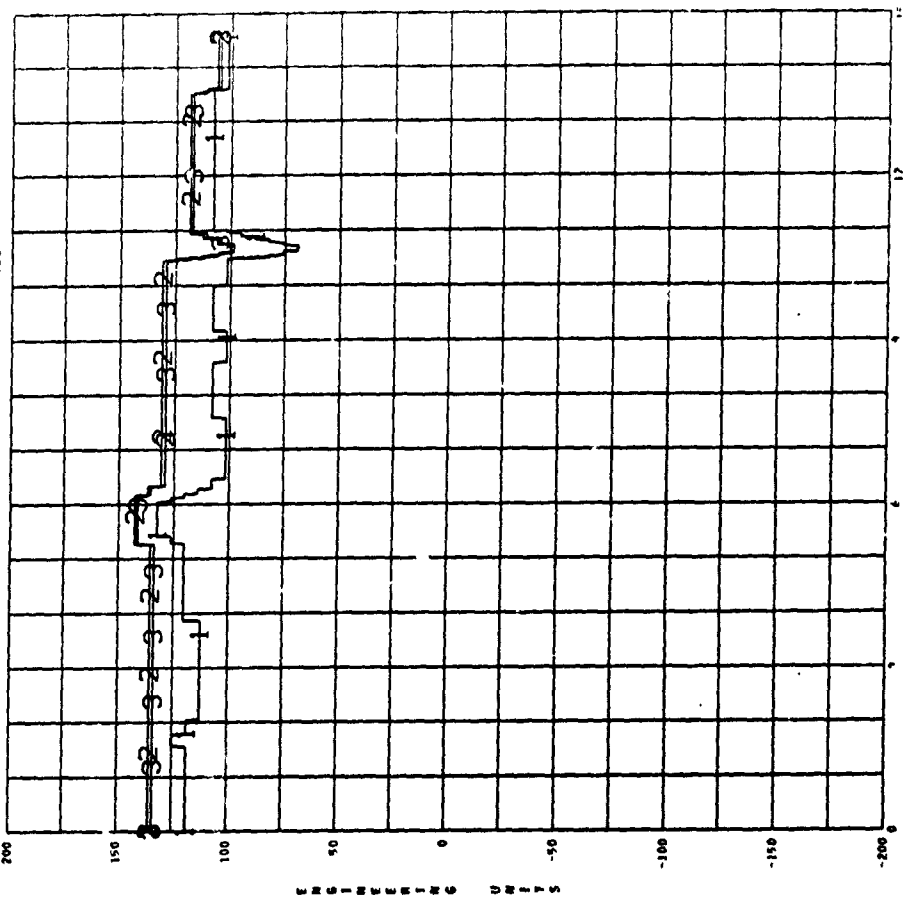


1 AC3034 PANEL 3 T/C LOCATION 34
 2 AC3034 PANEL 3 T/C LOCATION 34
 3 AC3034 PANEL 3 T/C LOCATION 34
 4 AC3034 PANEL 3 T/C LOCATION 34
 5 AC3034 PANEL 3 T/C LOCATION 34
 6 AC3034 PANEL 3 T/C LOCATION 34
 7 AC3034 PANEL 3 T/C LOCATION 34
 8 AC3034 PANEL 3 T/C LOCATION 34
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 15 AC3034 PANEL 3 T/C LOCATION 34

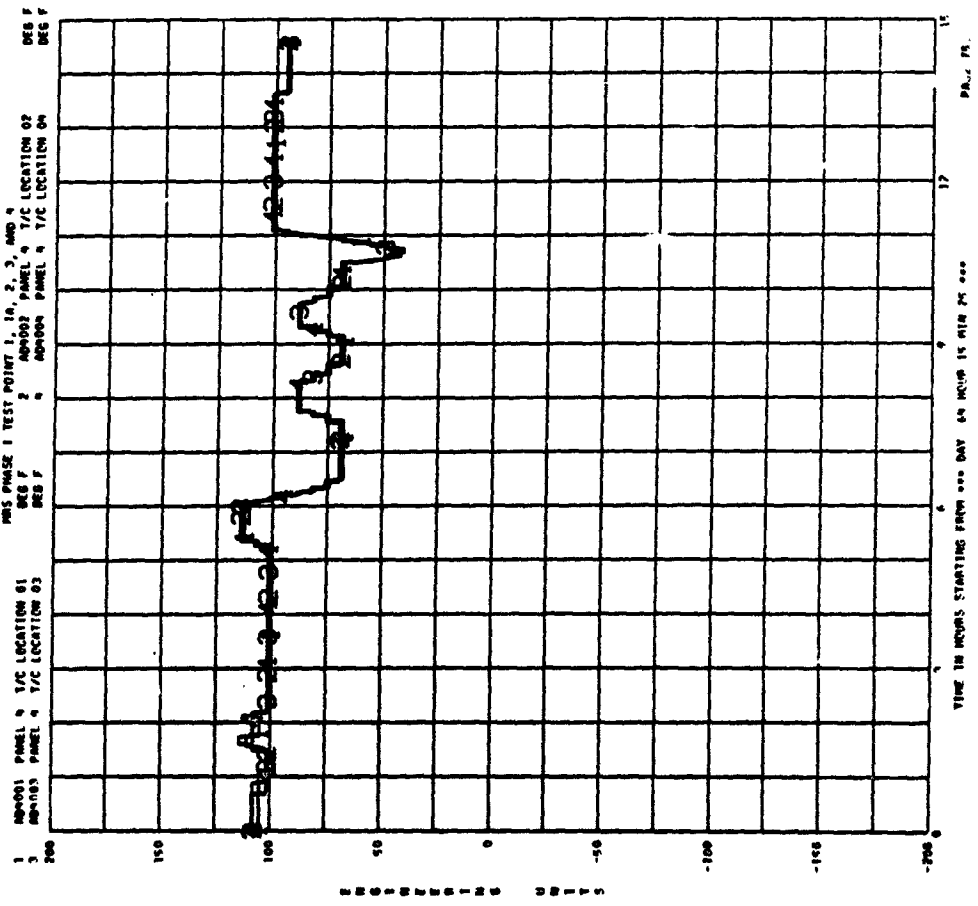
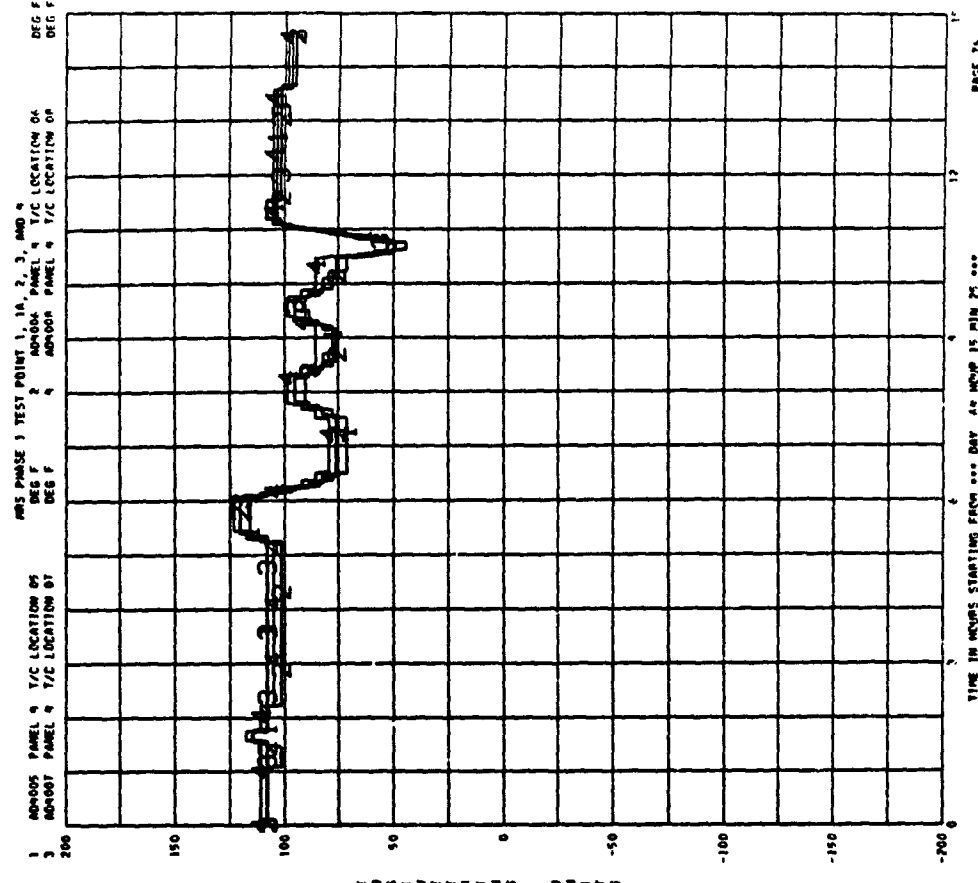


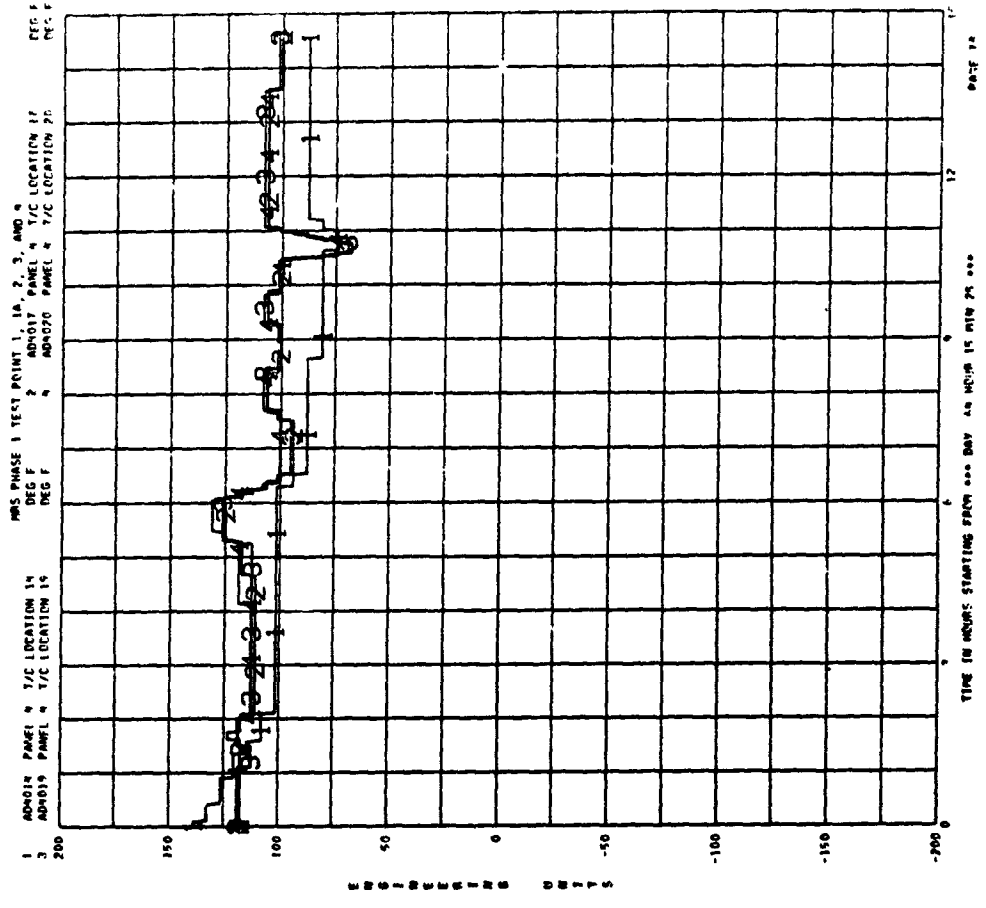
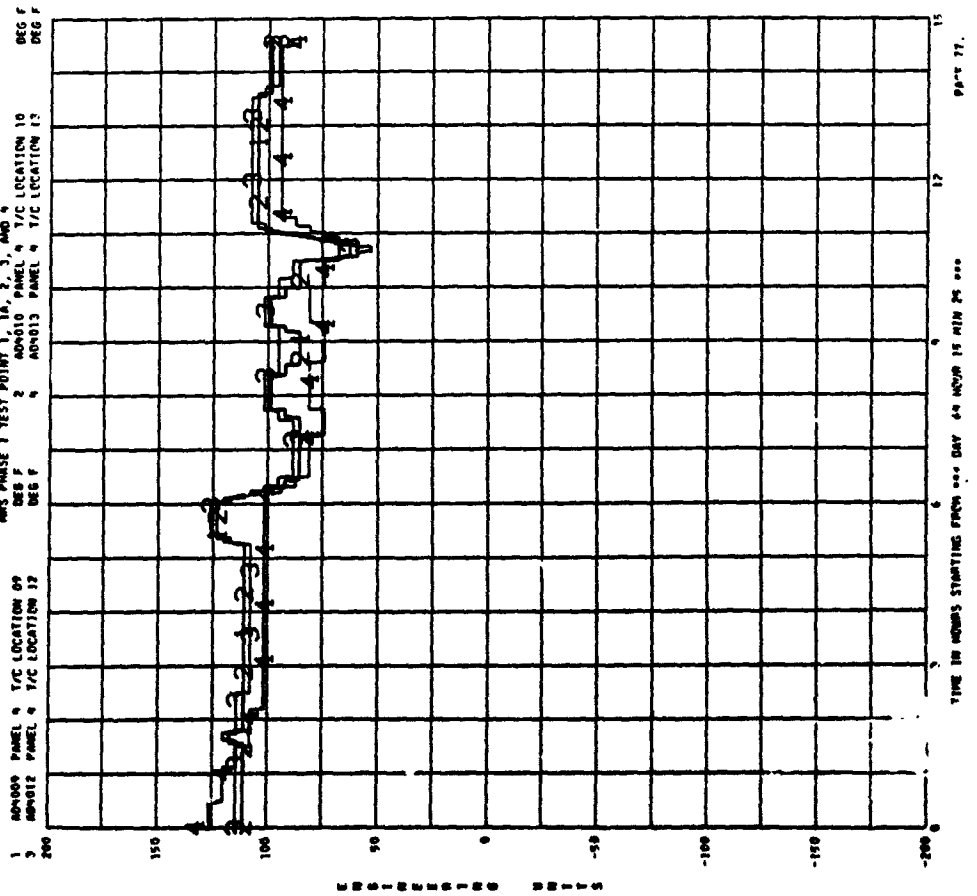
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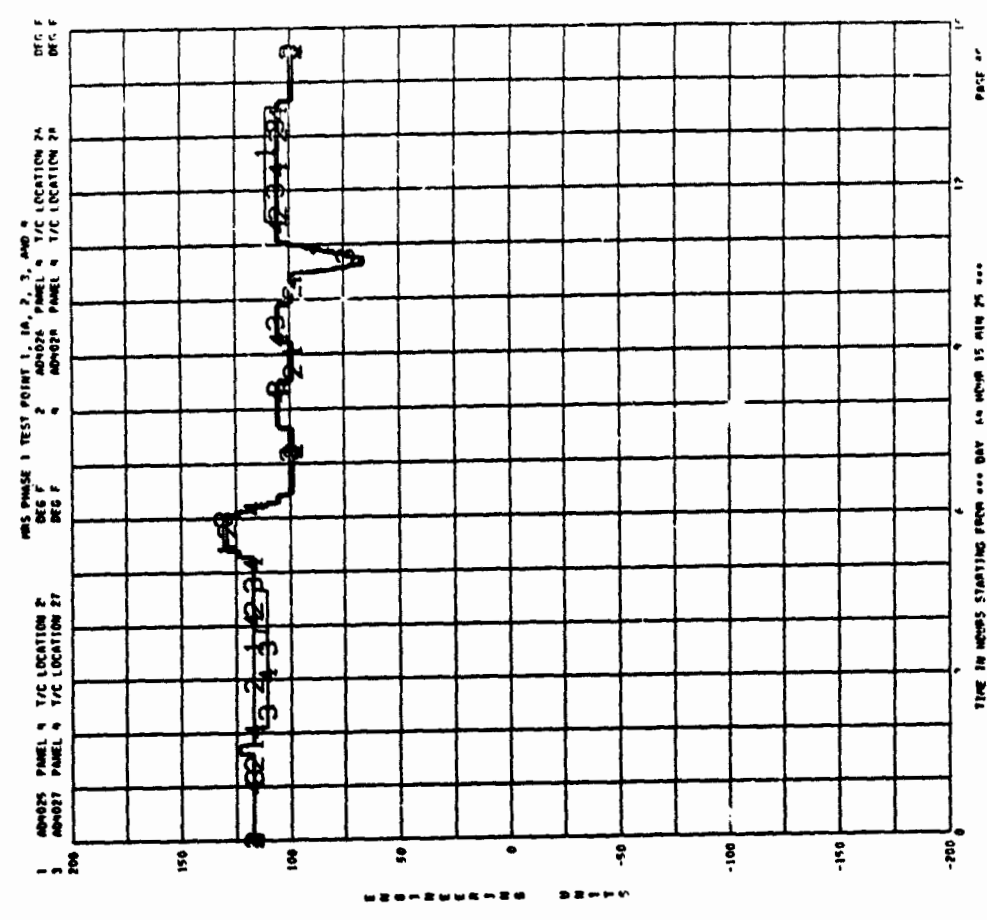
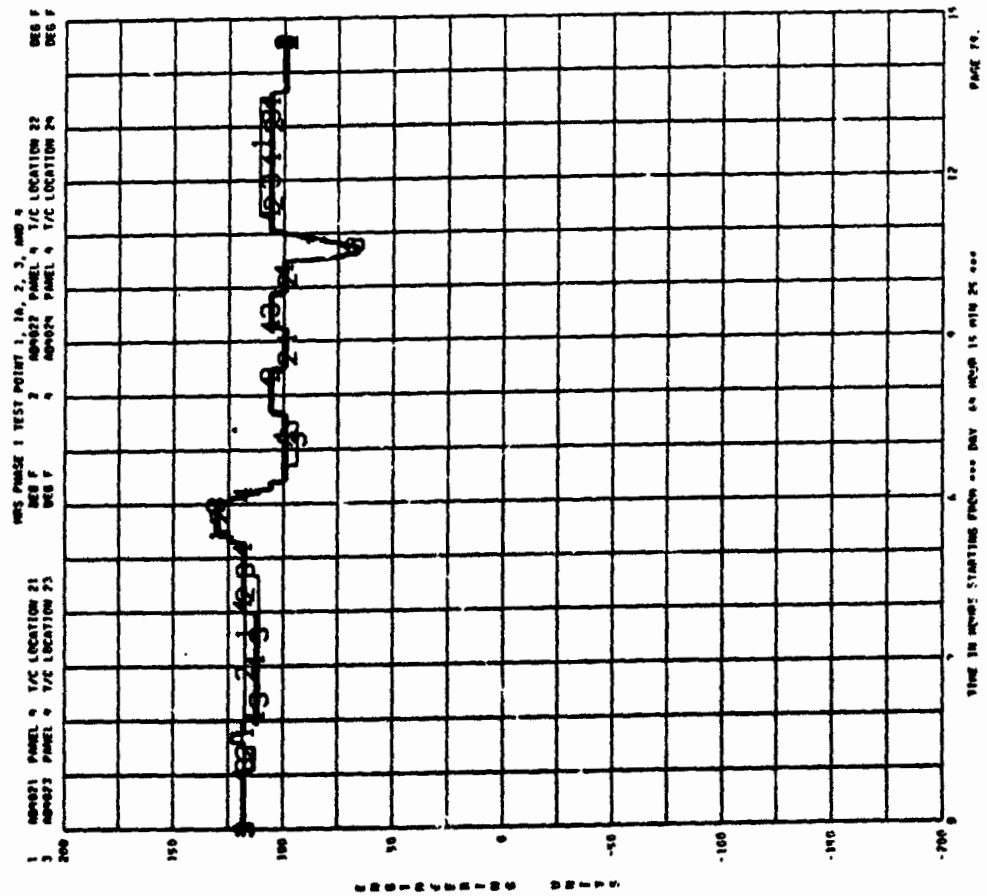
1 AC3017 PANEL 3 T/C LOCATION 11
 2 AC3017 PANEL 3 T/C LOCATION 11
 3 AC3017 PANEL 3 T/C LOCATION 11
 4 AC3017 PANEL 3 T/C LOCATION 11
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 6 AC3017 PANEL 3 T/C LOCATION 11
 7 AC3017 PANEL 3 T/C LOCATION 11
 8 AC3017 PANEL 3 T/C LOCATION 11
 9 AC3017 PANEL 3 T/C LOCATION 11
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 14 AC3017 PANEL 3 T/C LOCATION 11
 15 AC3017 PANEL 3 T/C LOCATION 11

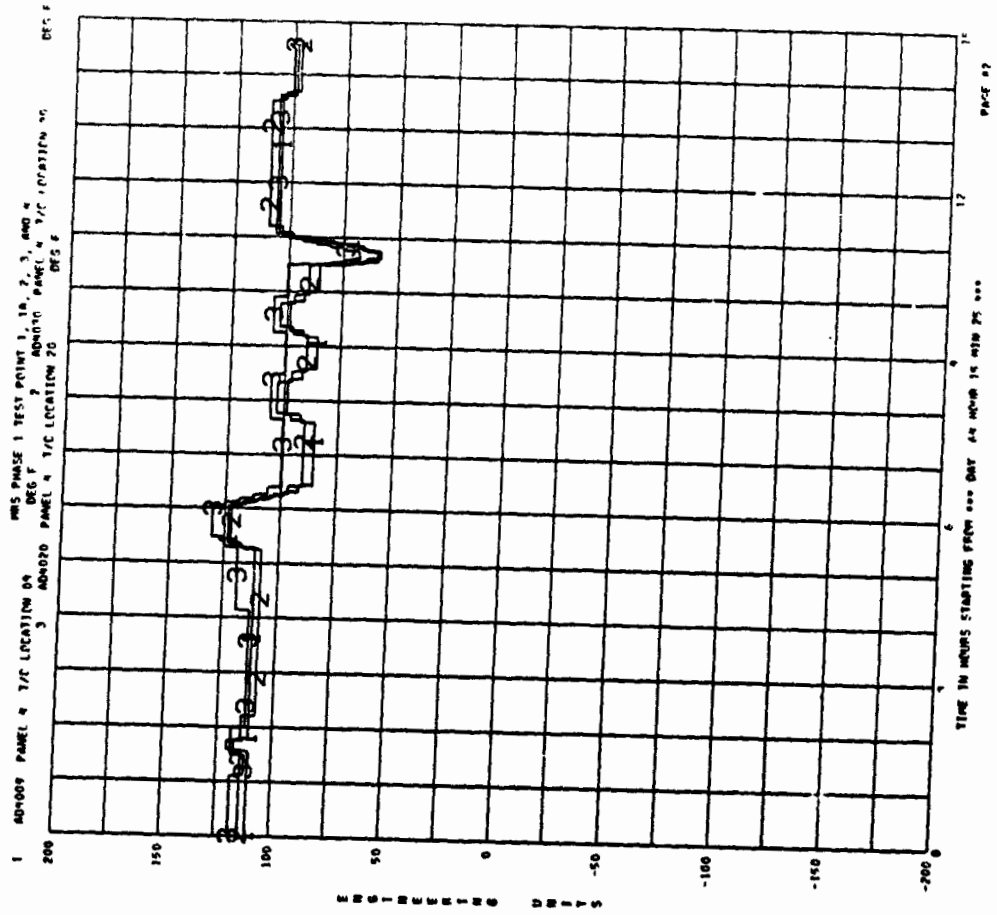
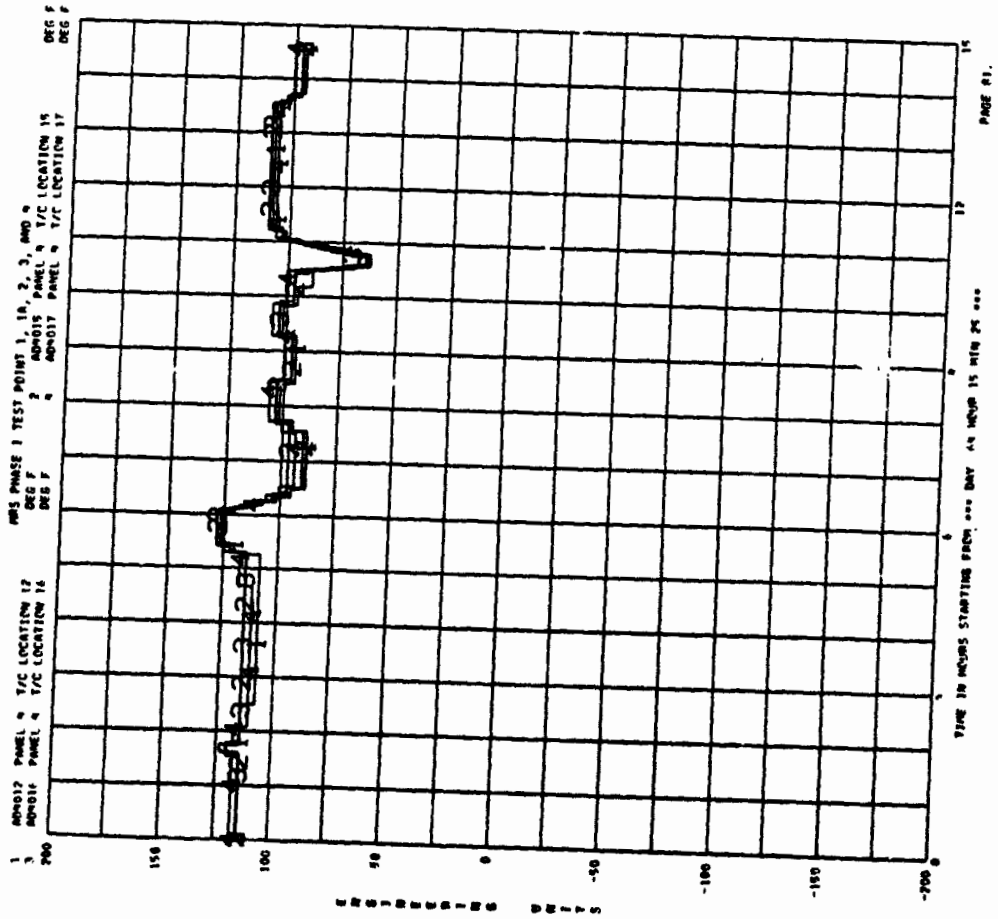


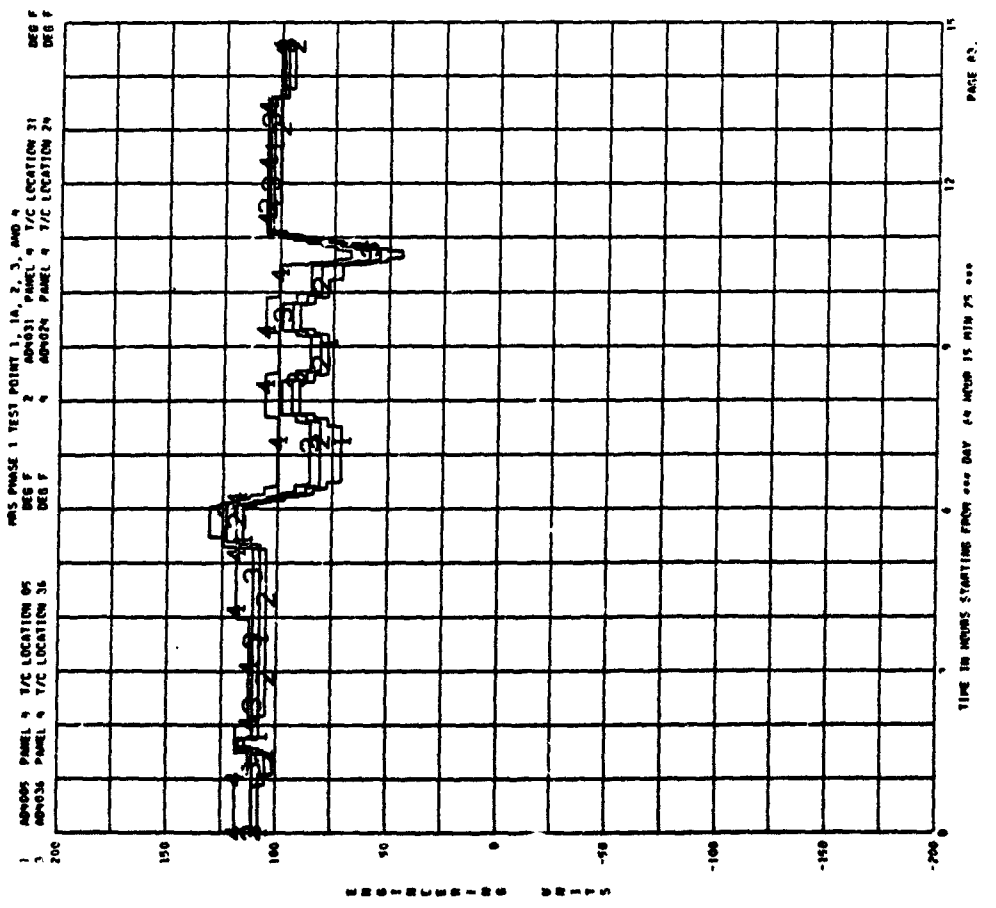
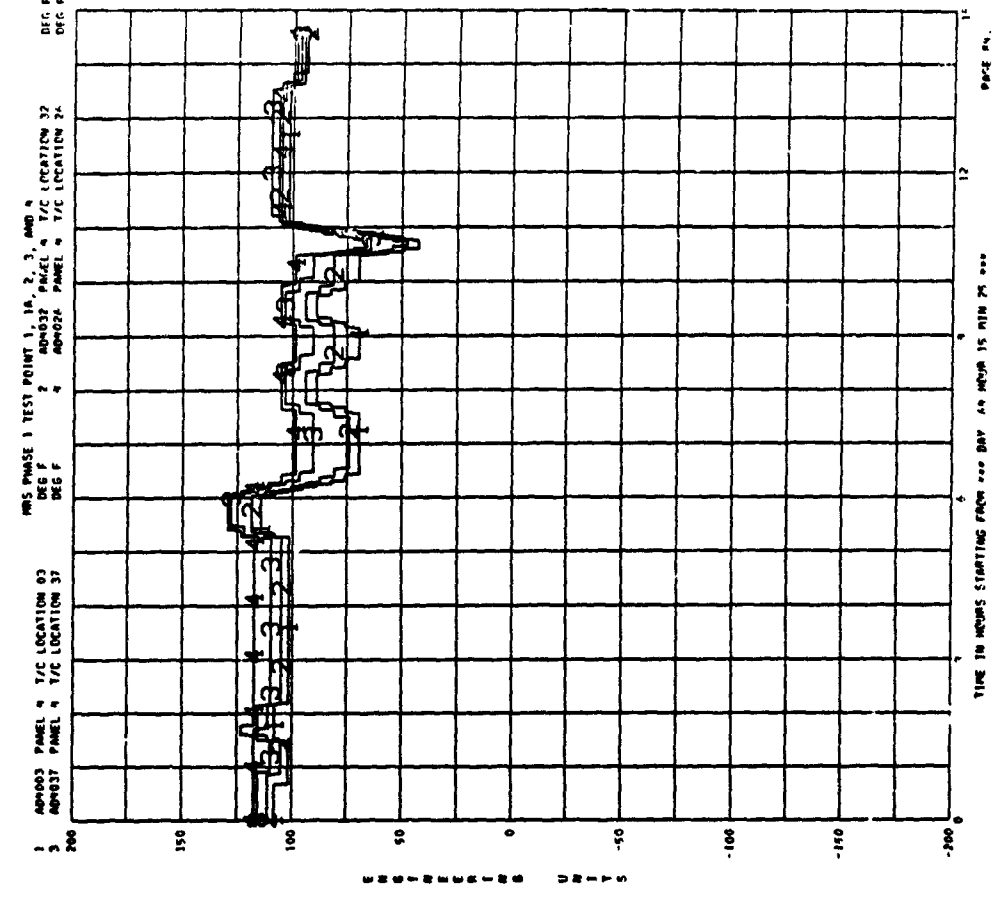
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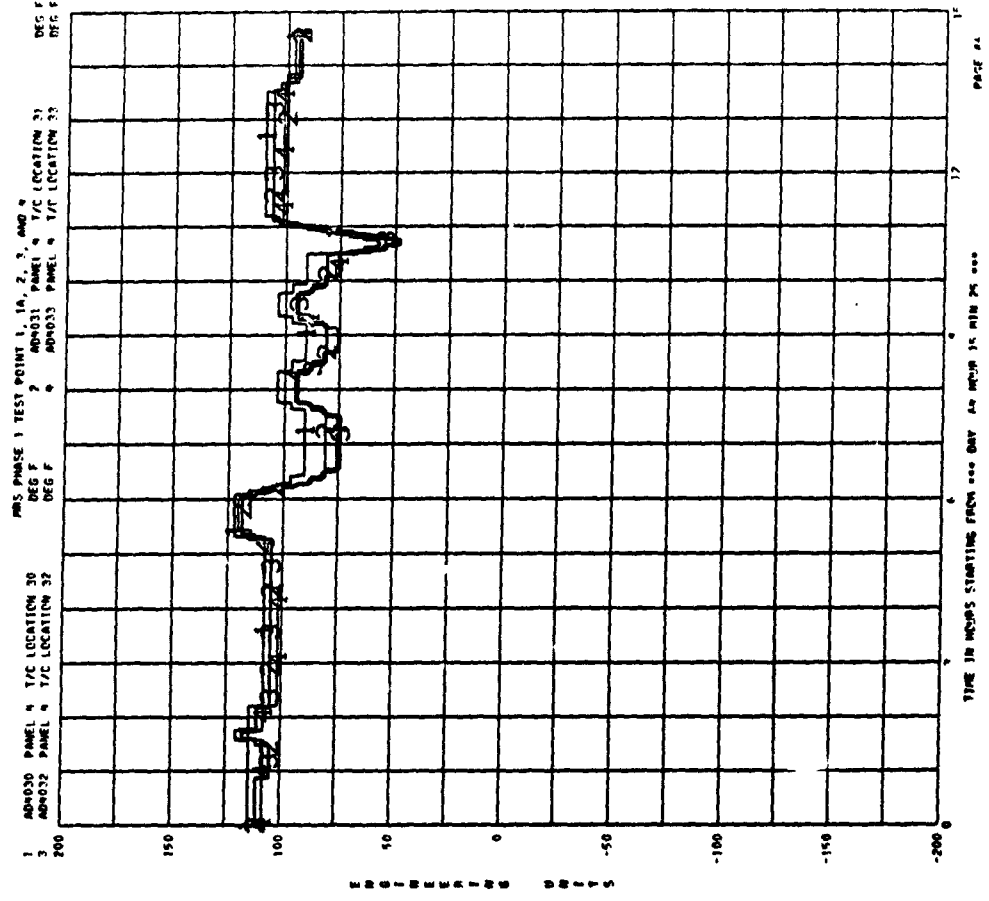
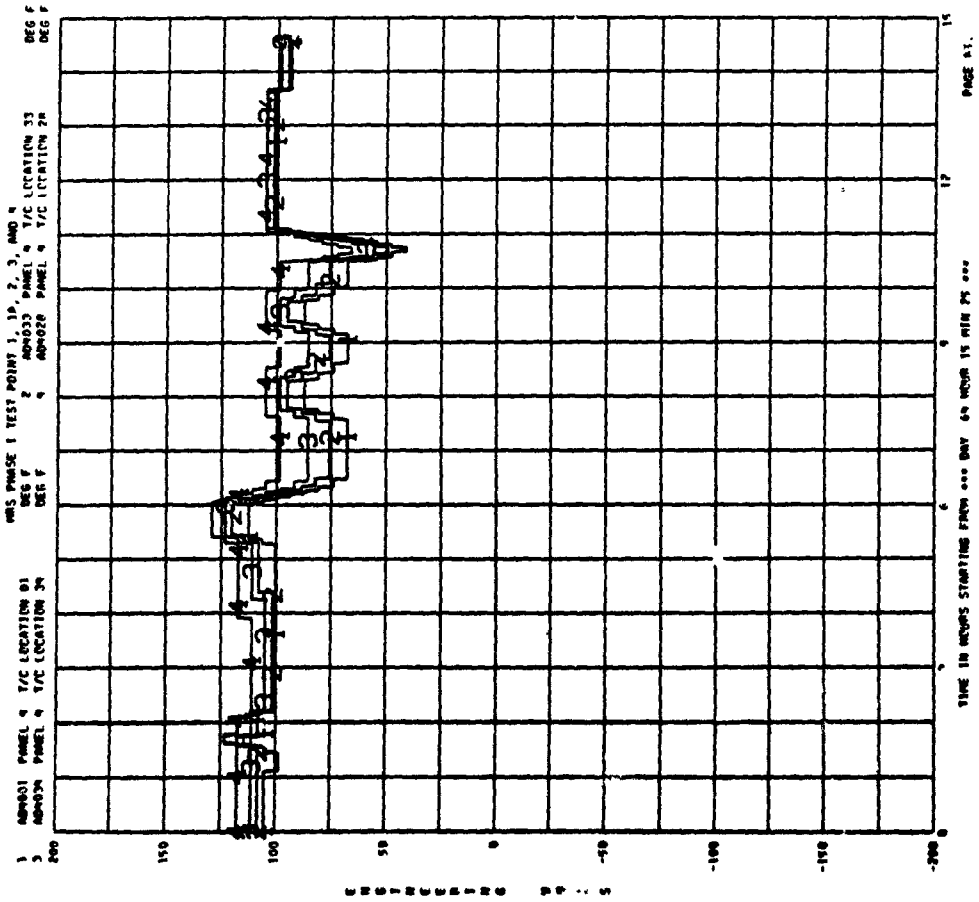


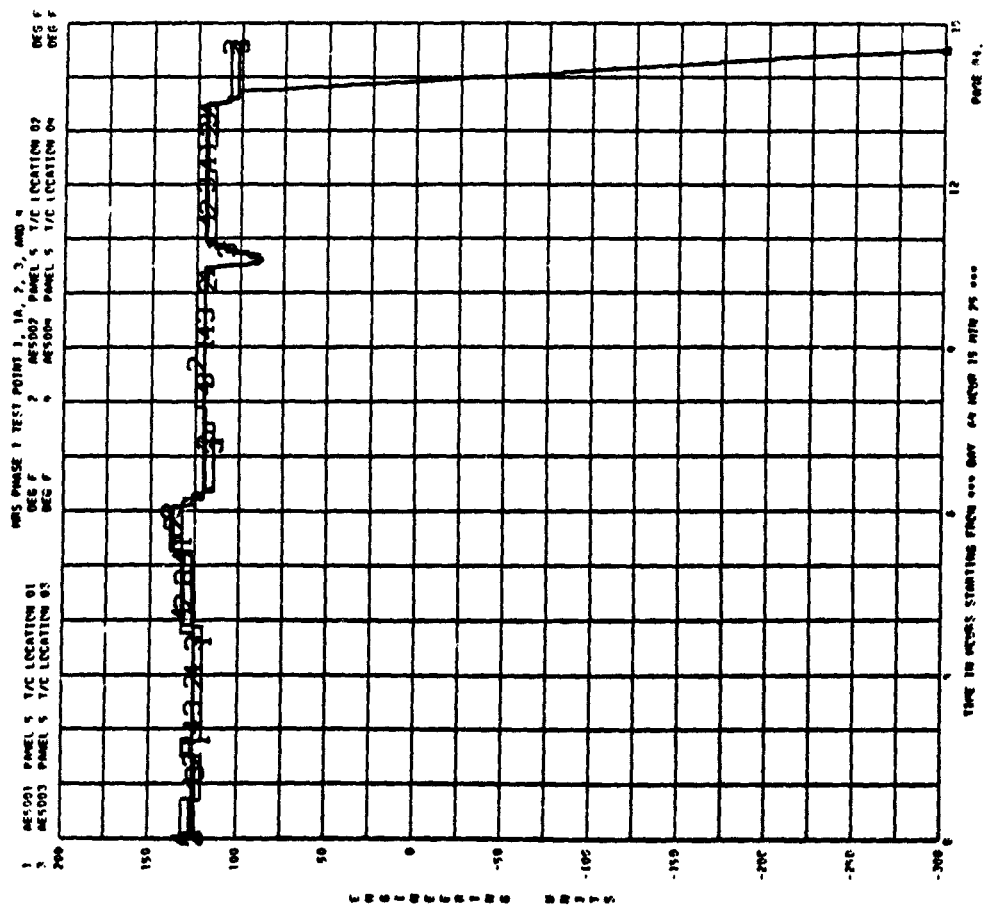
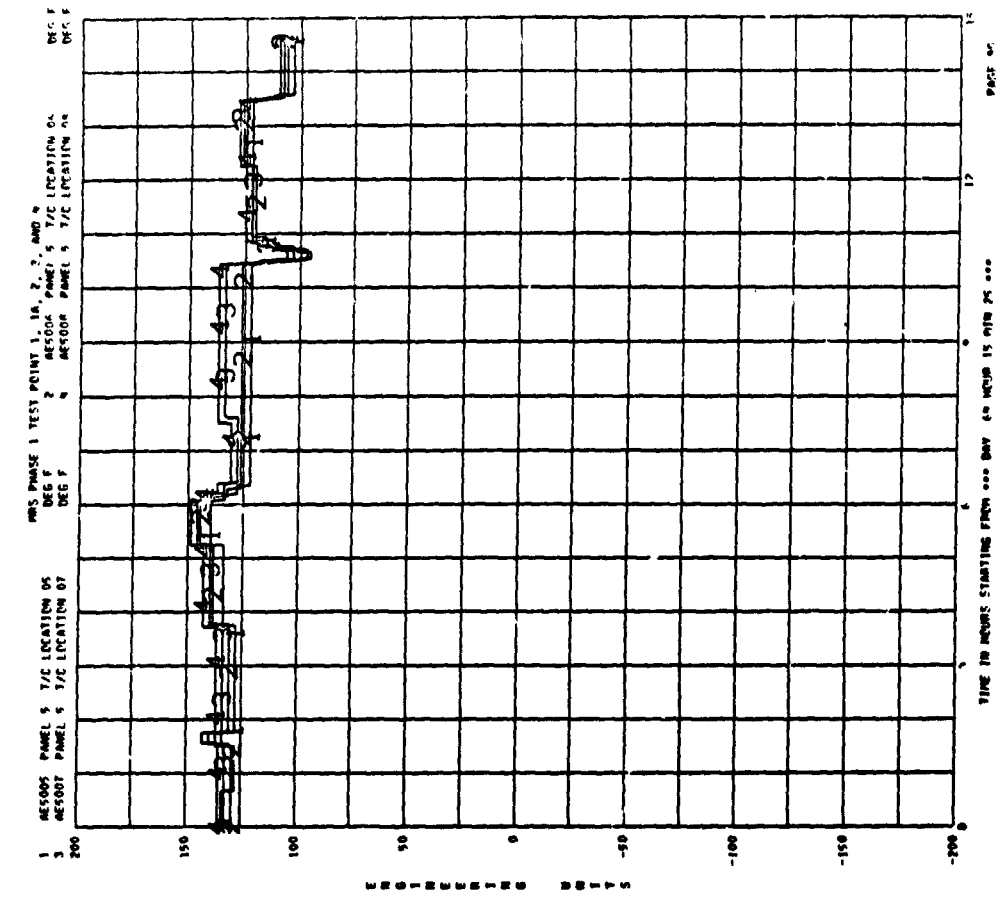


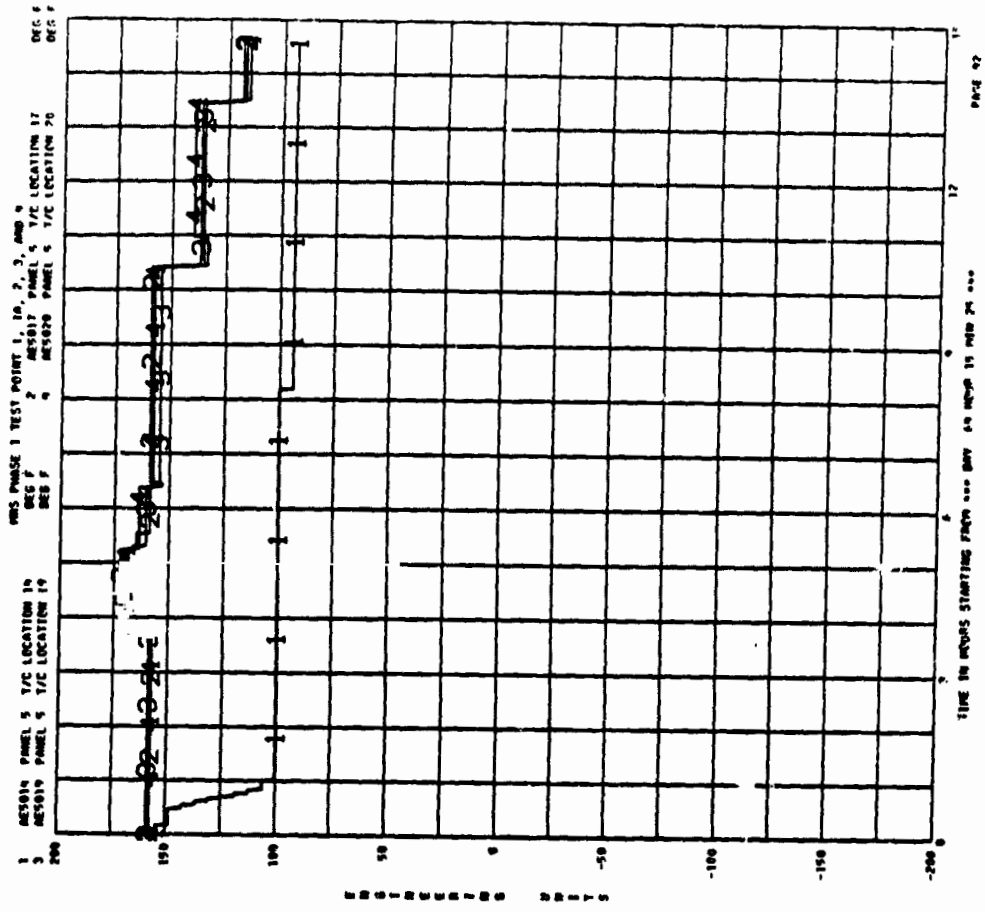
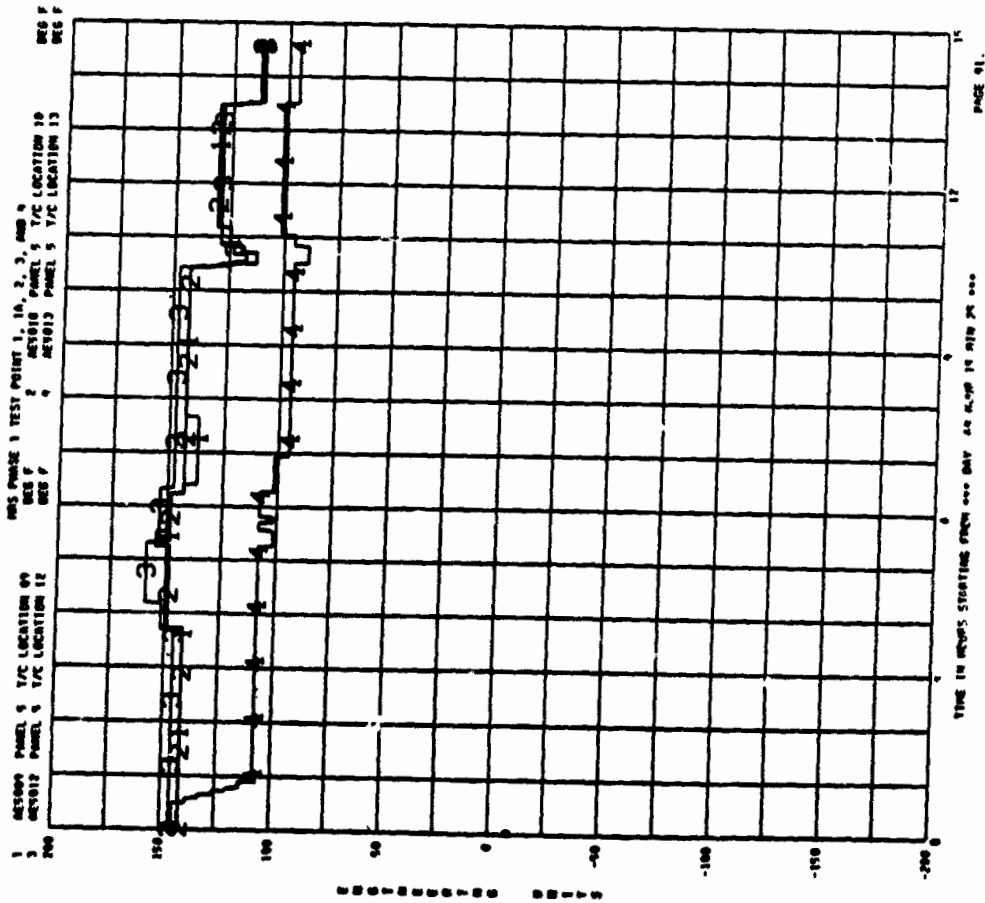


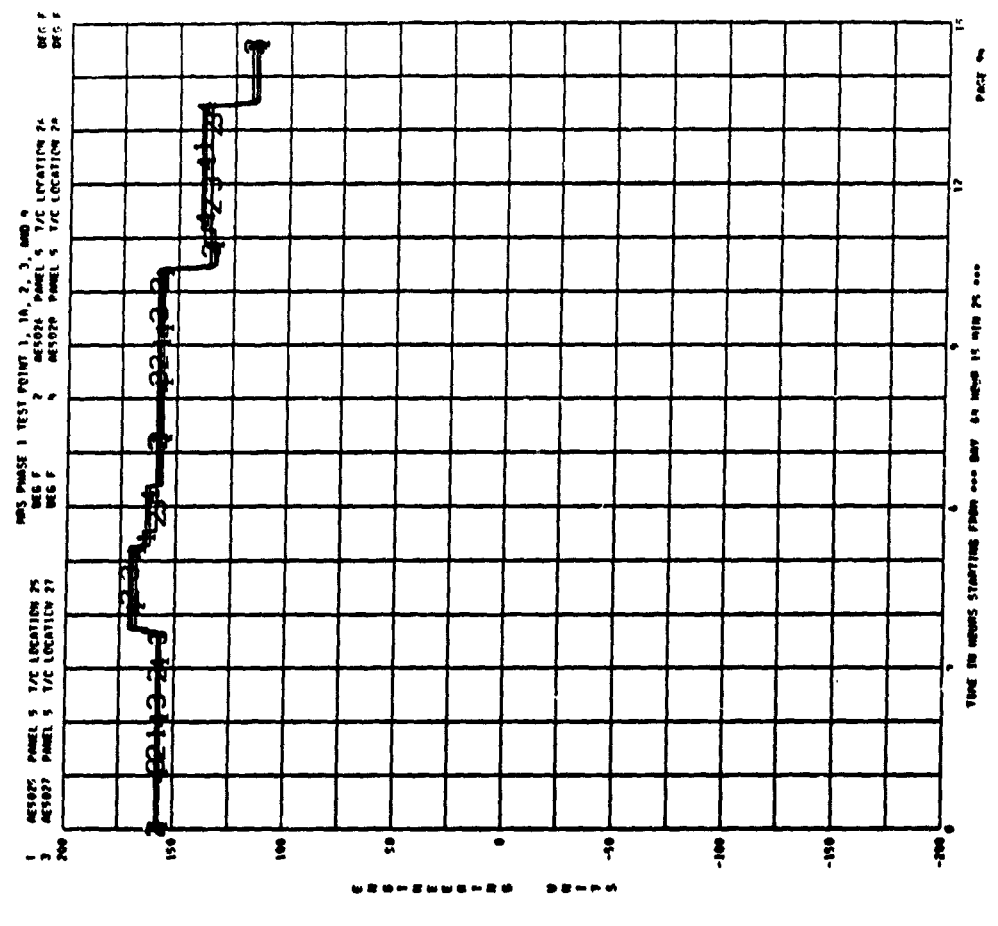
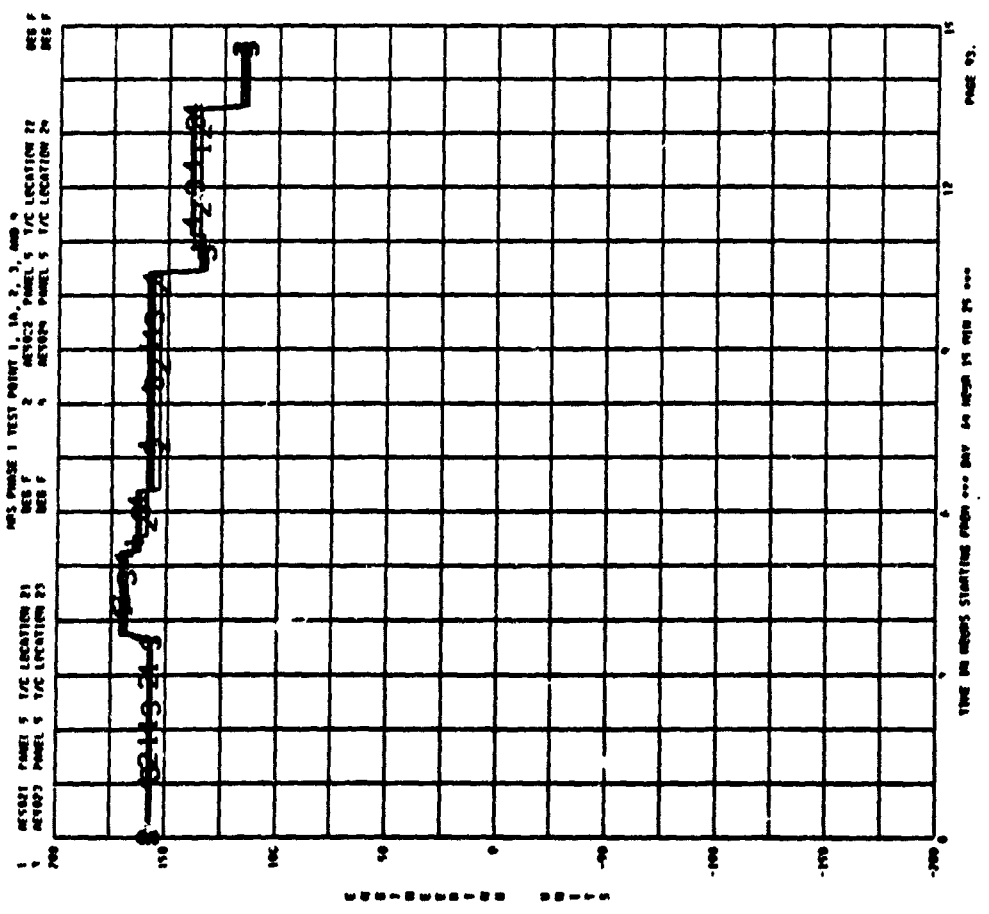


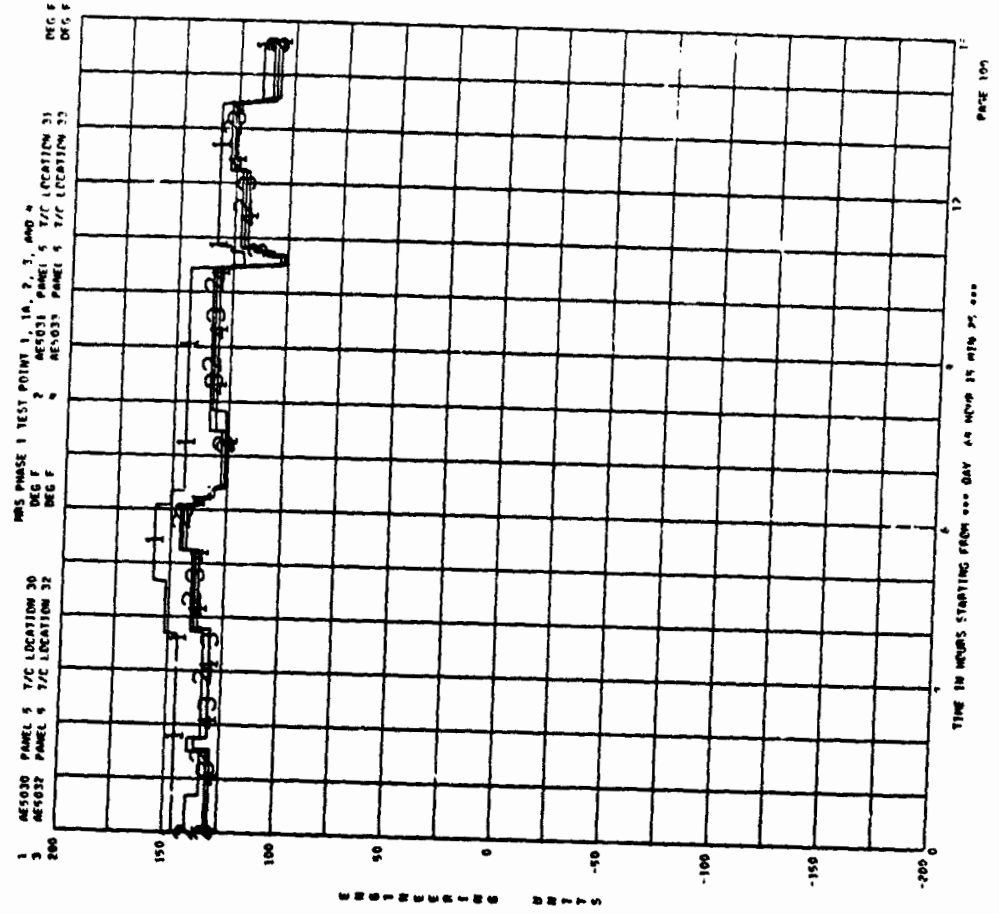
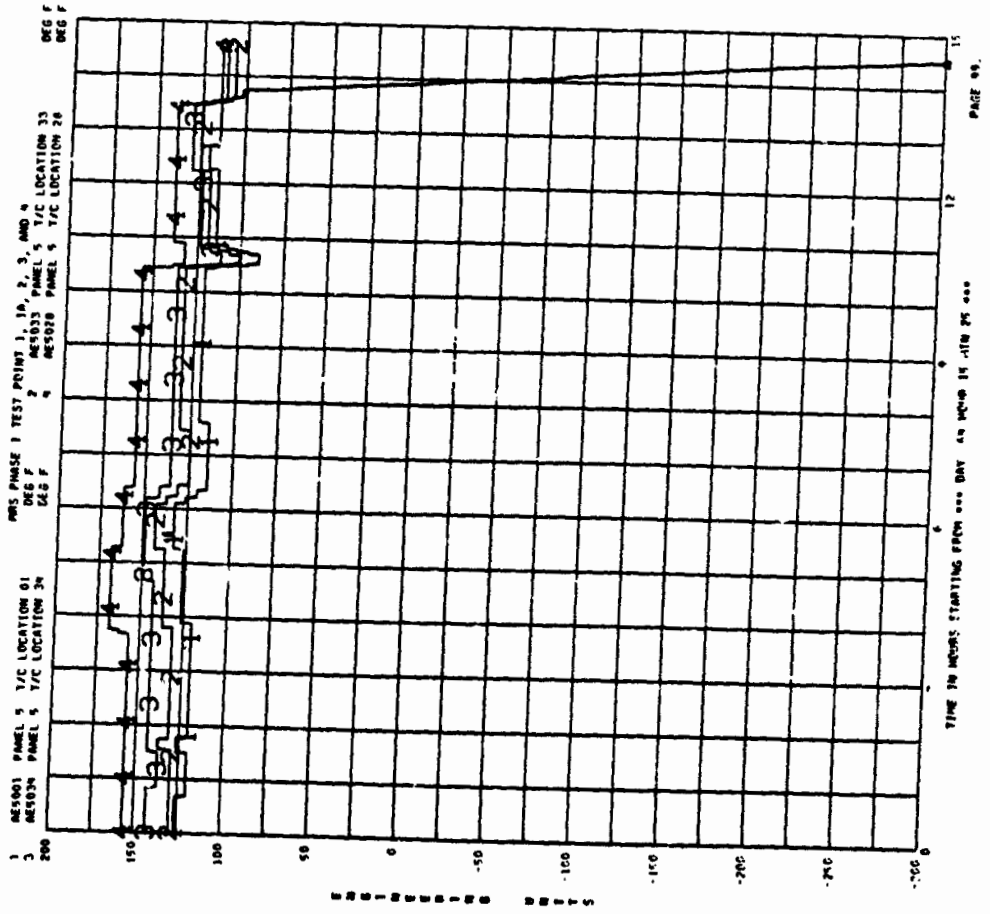


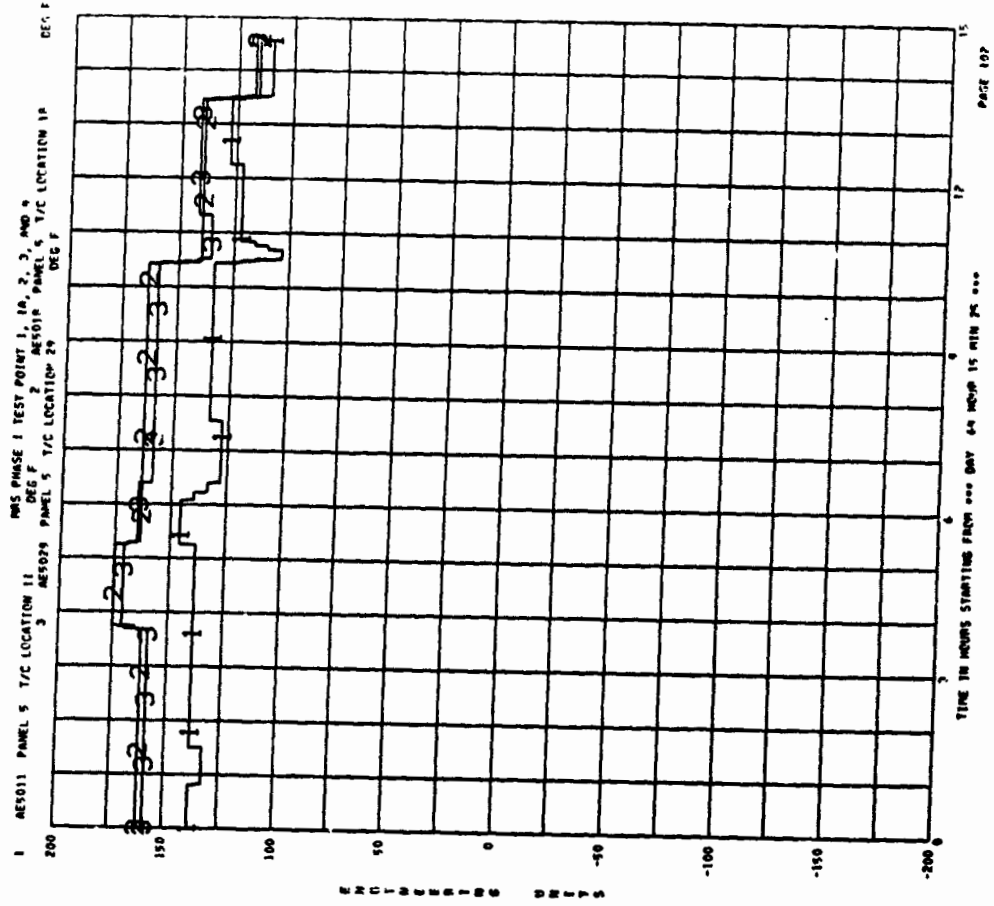
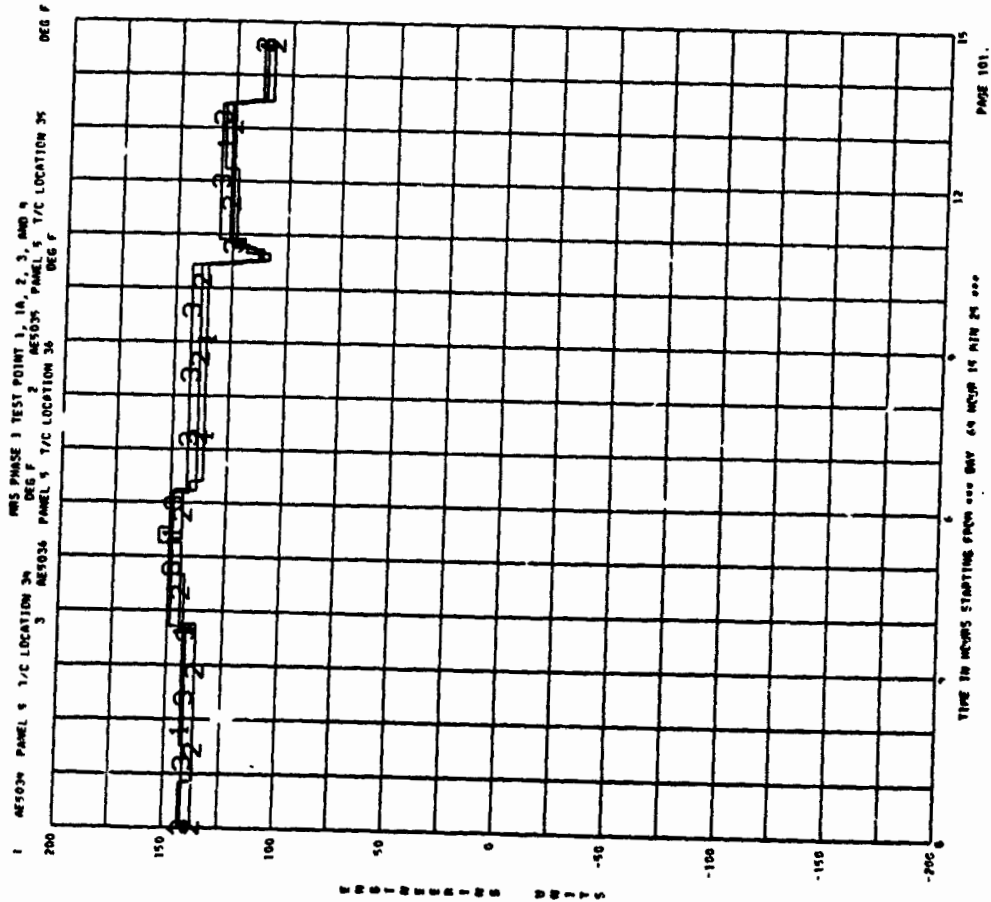


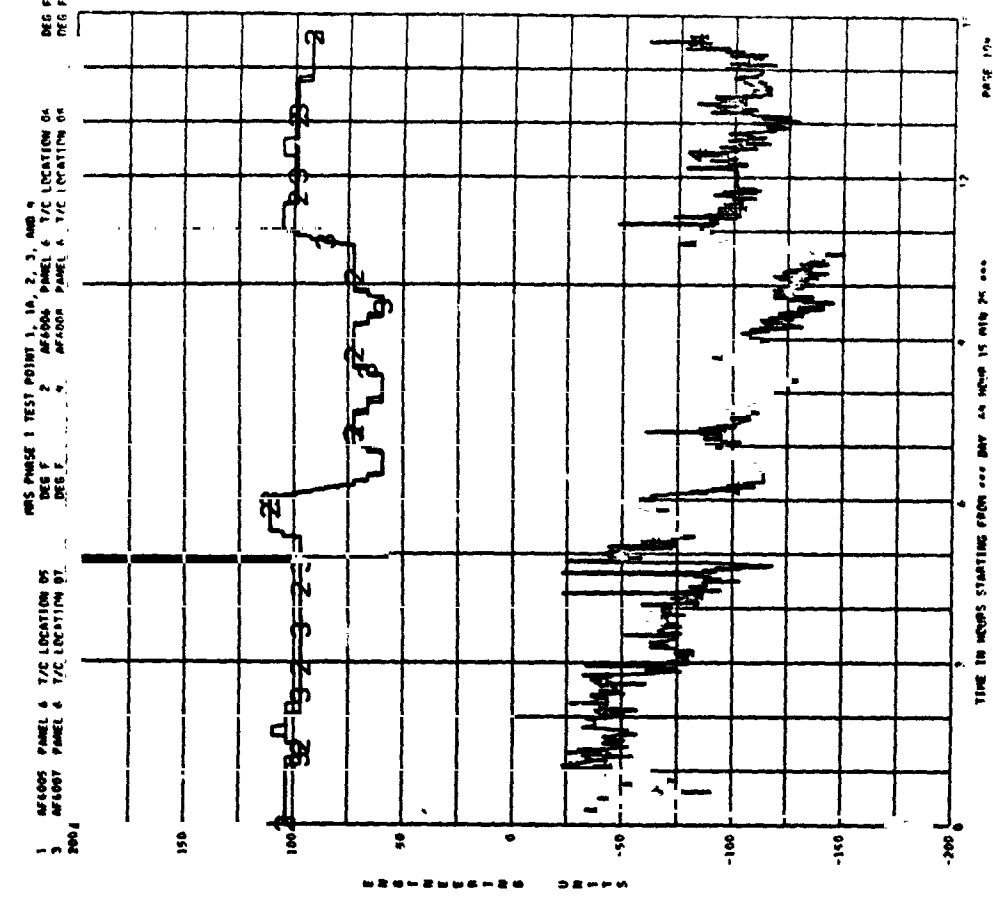
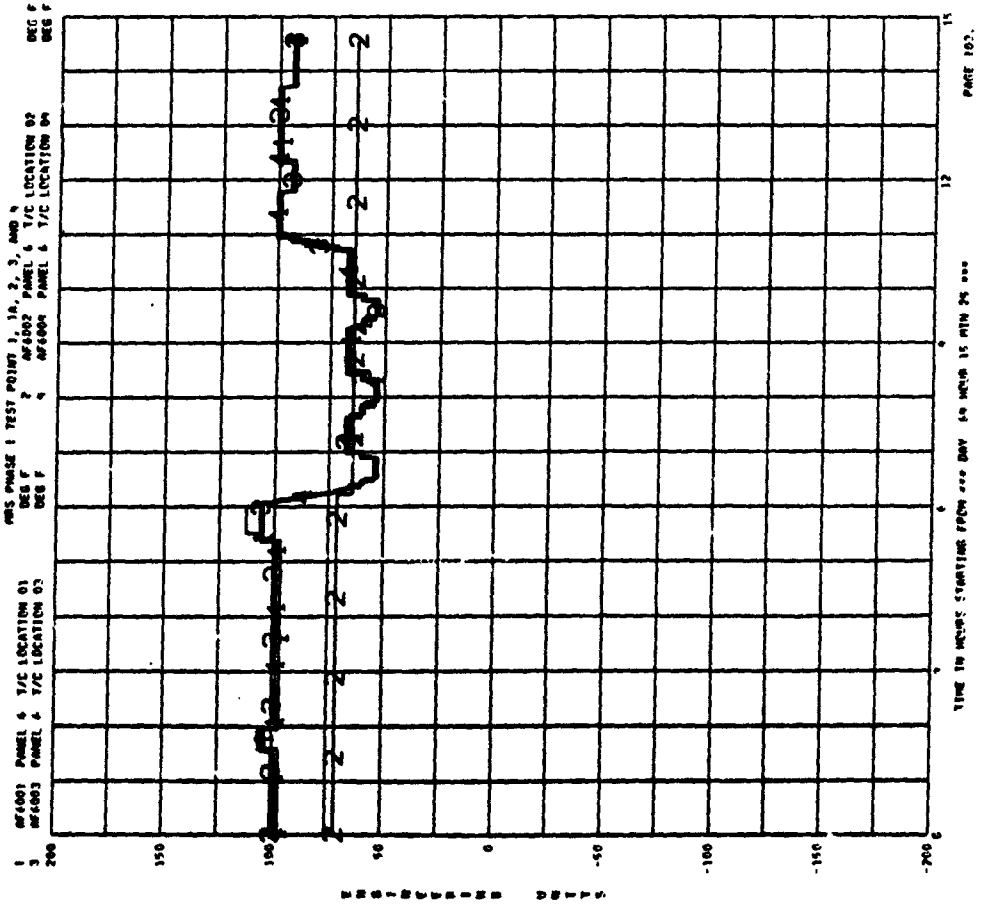


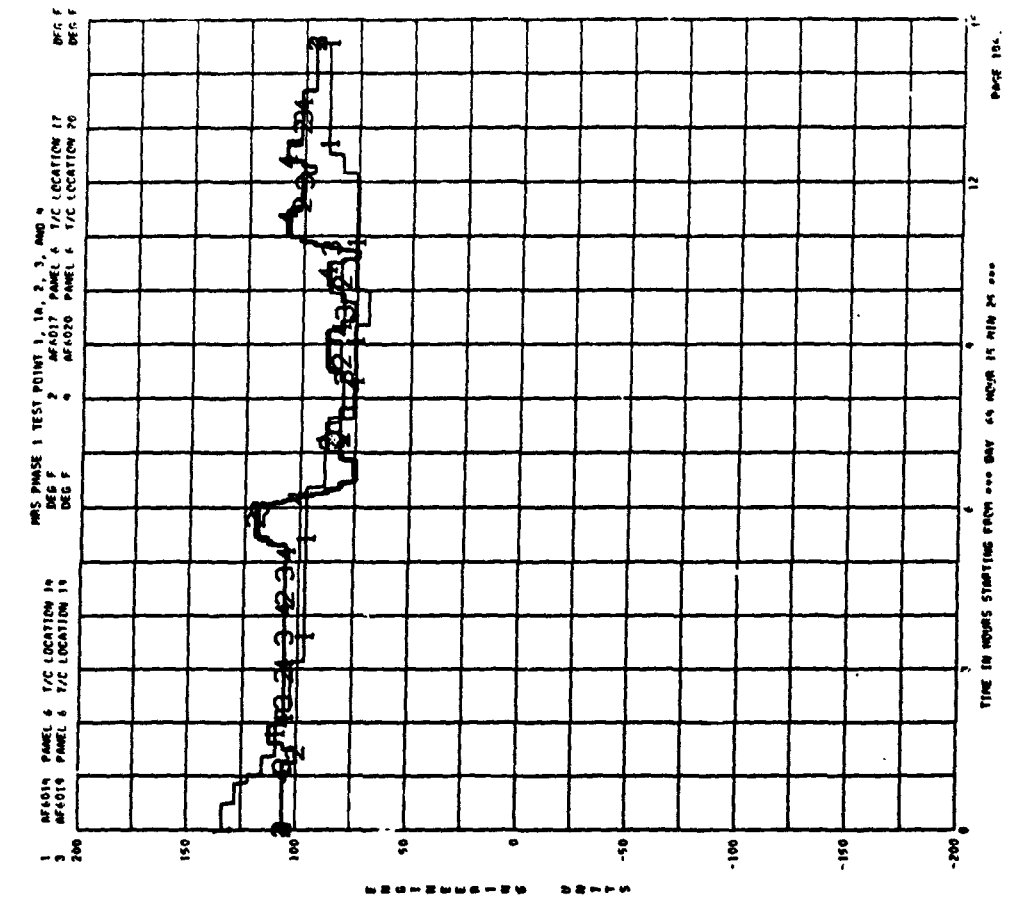
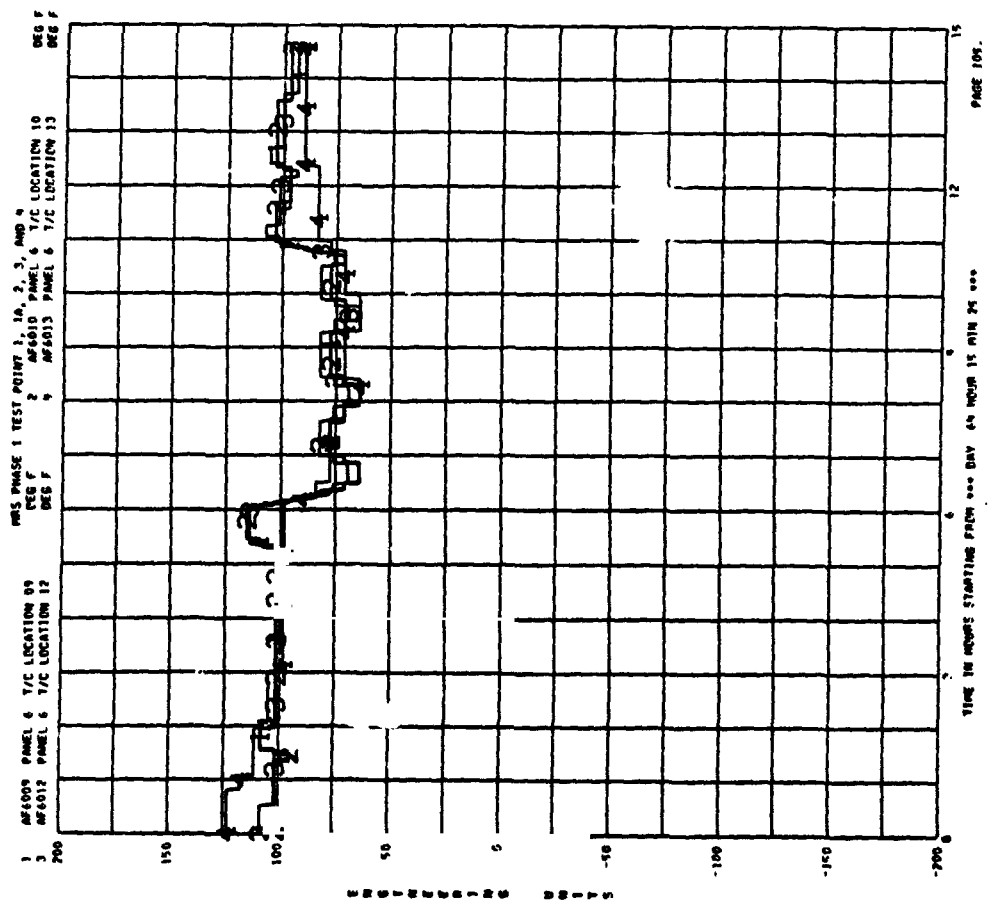


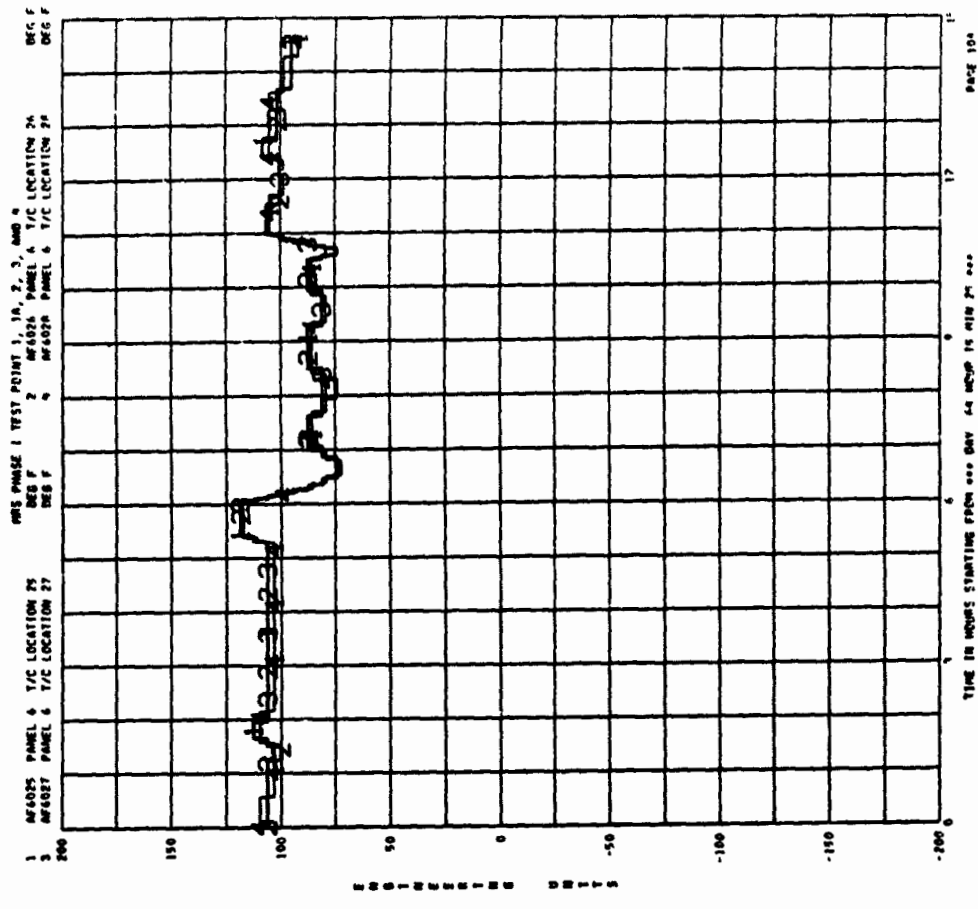
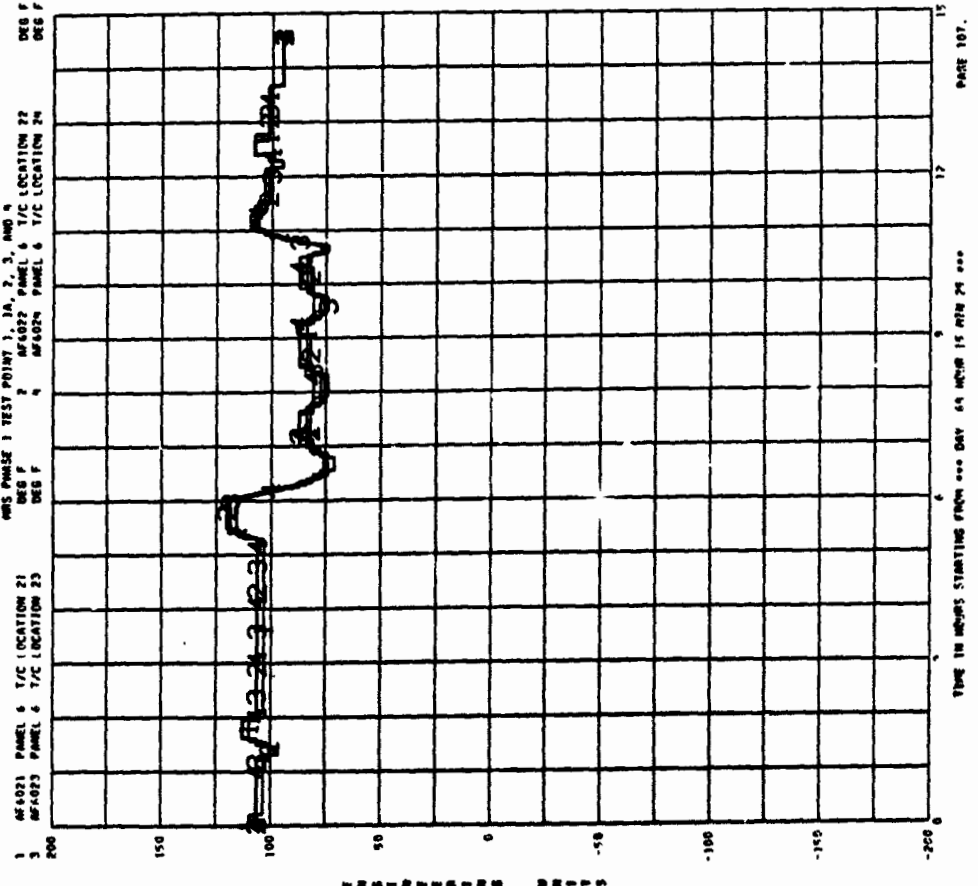




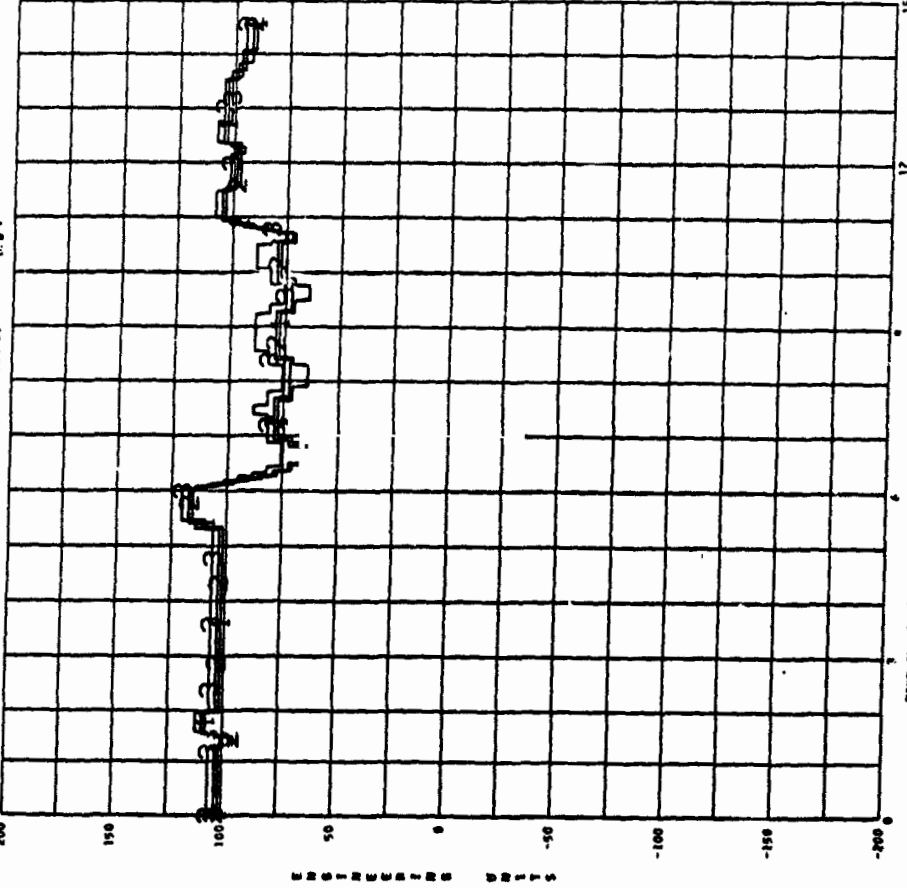






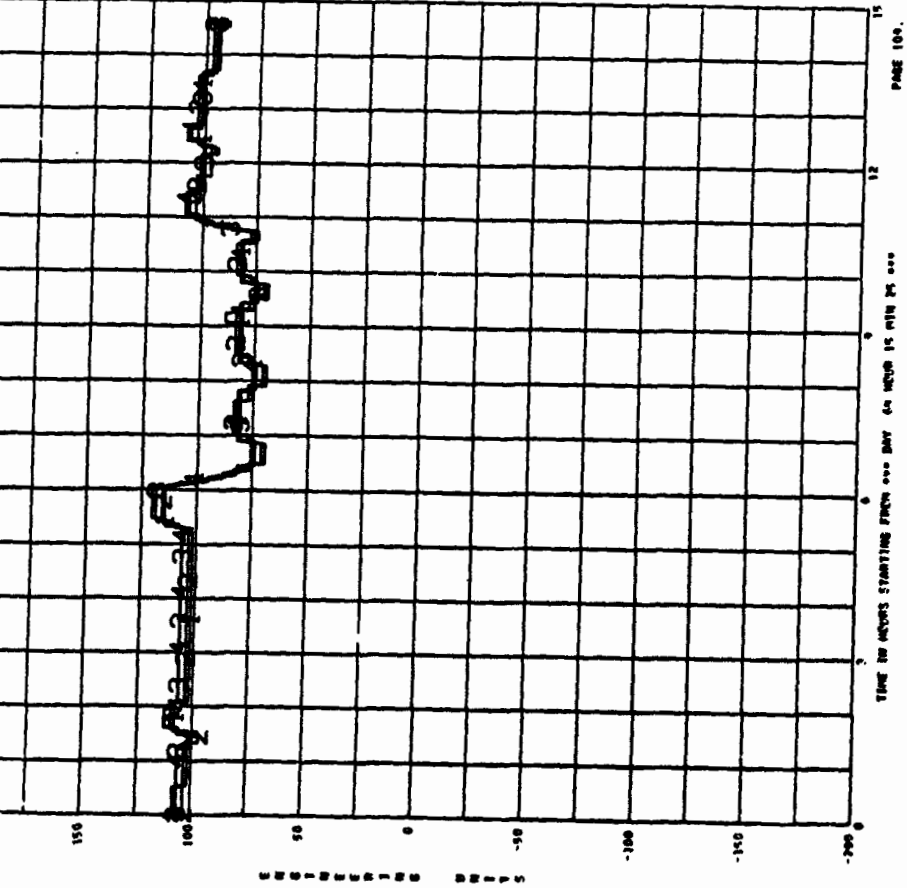


1 AF6009 PANEL 6 T/C LOCATION 09
 2 AF6020 PANEL 6 T/C LOCATION 20
 3 AF6020 PANEL 6 T/C LOCATION 20
 D.B.F.

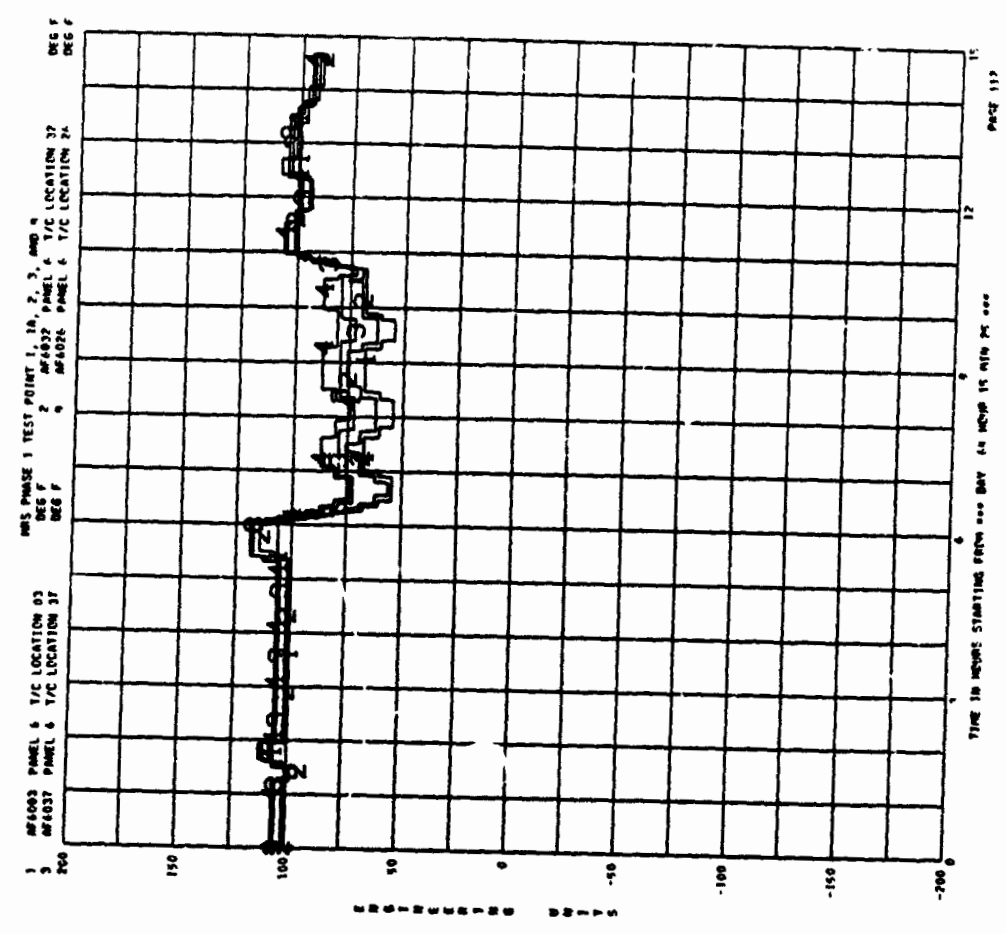
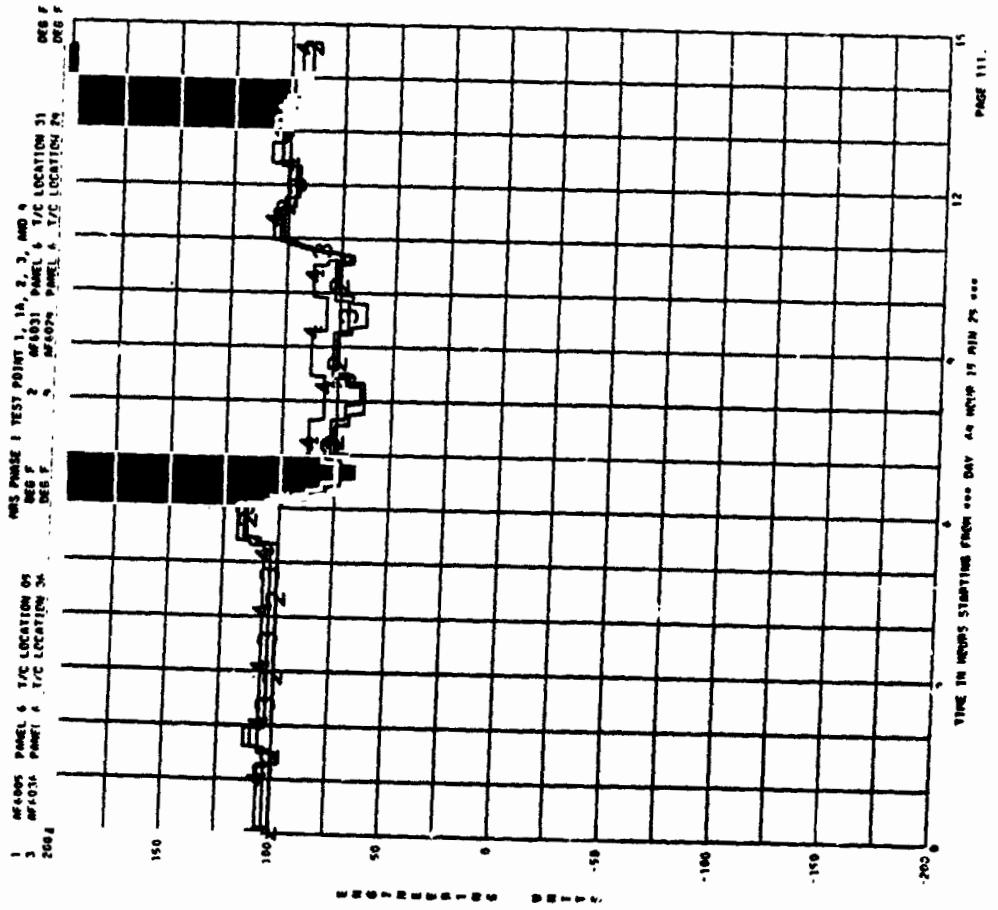


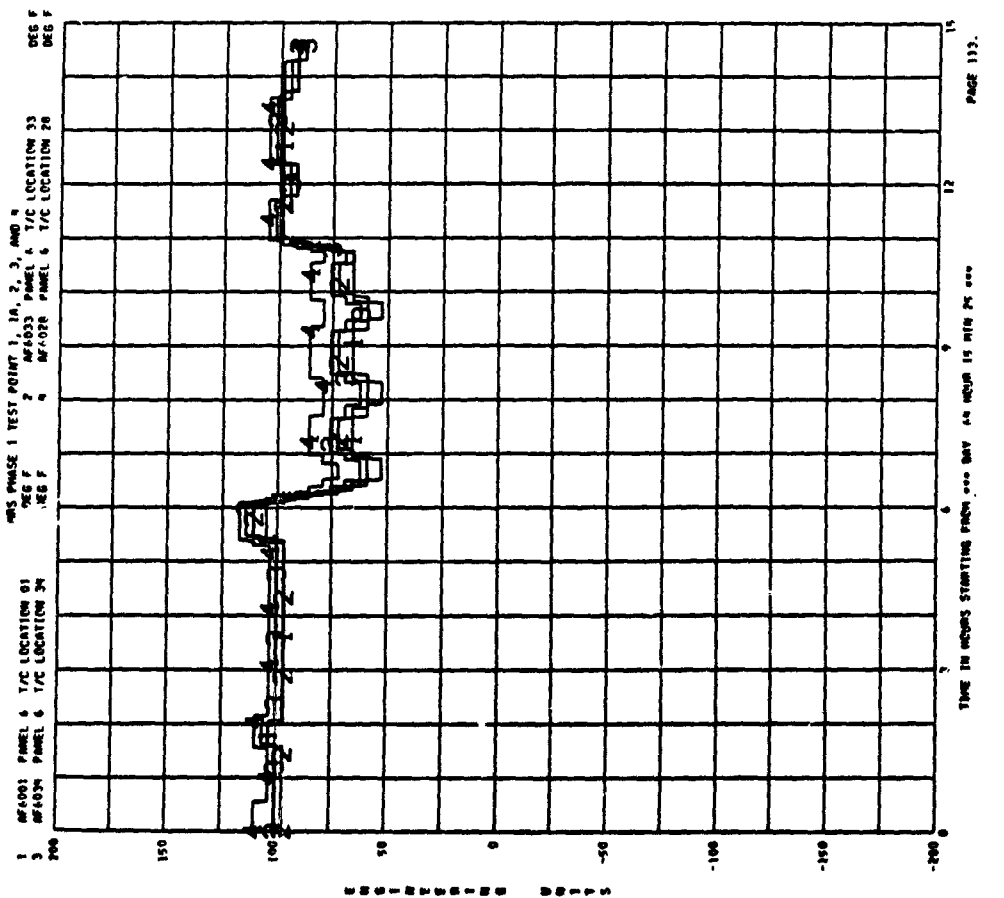
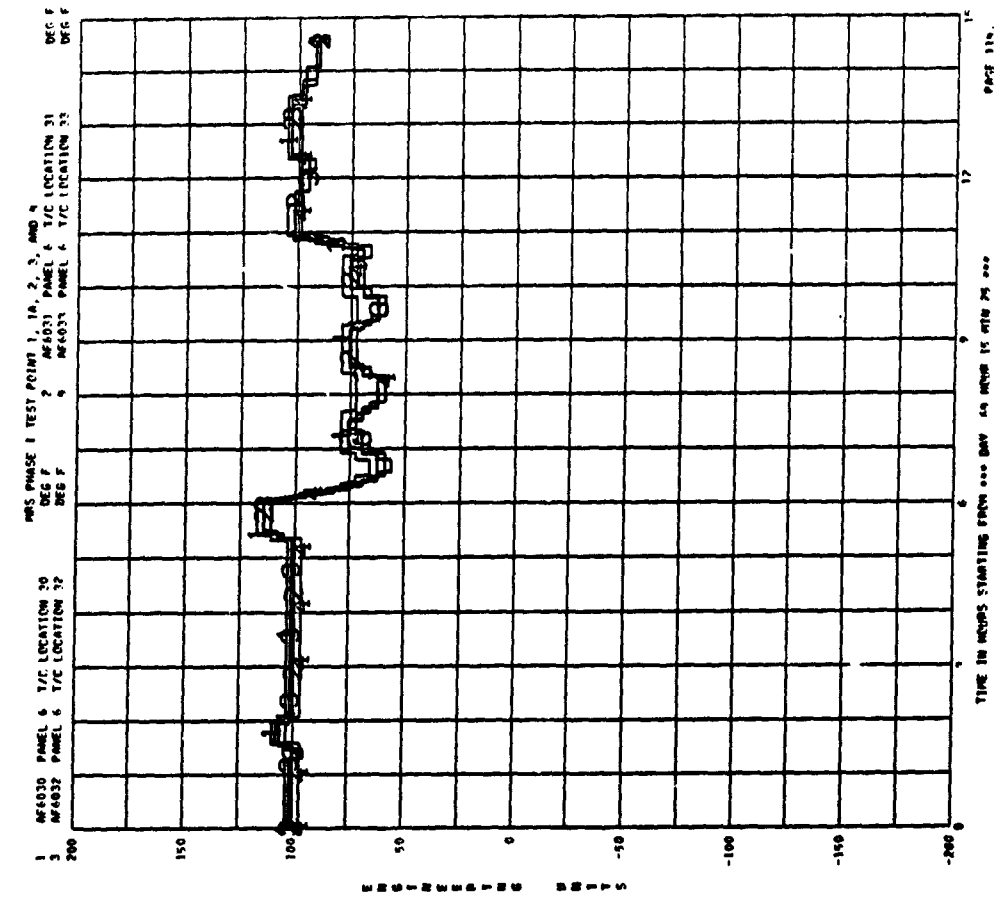
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1 AF4012 PANEL 6 T/C LOCATION 12
 2 AF4014 PANEL 6 T/C LOCATION 16
 3 AF4015 PANEL 6 T/C LOCATION 15
 4 AF4017 PANEL 6 T/C LOCATION 17
 D.B.F.



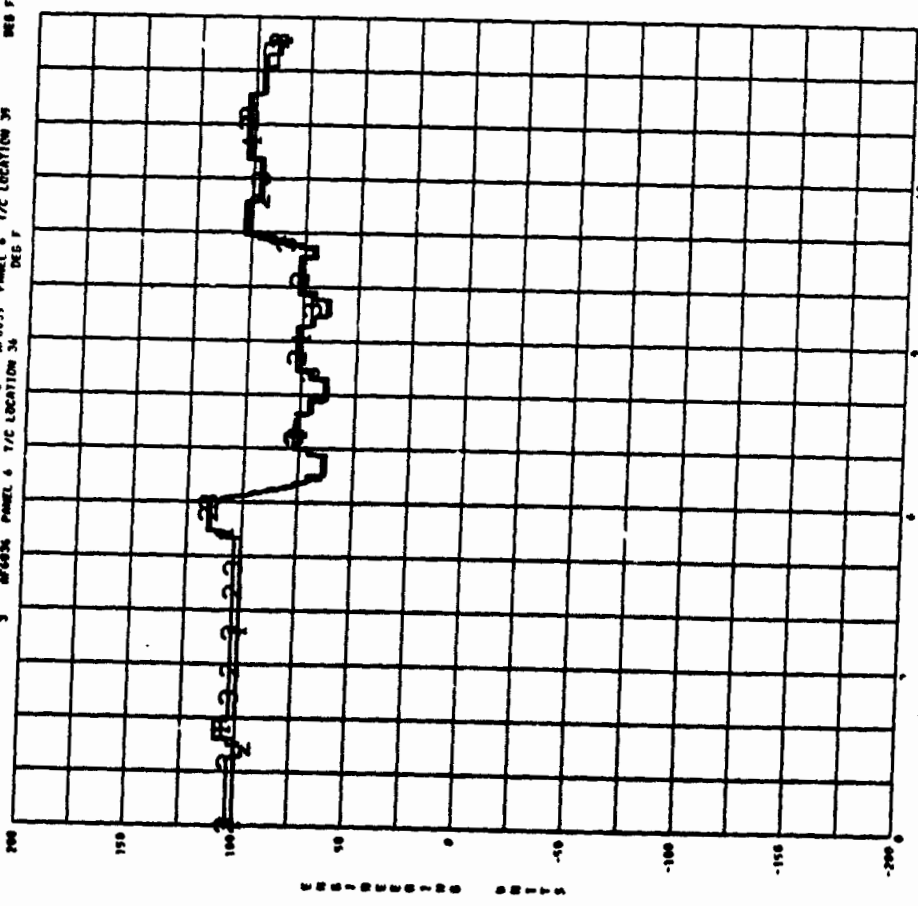
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1 AF4024 PANEL 6 T/C LOCATION 24
 200
 150
 100
 50
 0
 -50
 -100
 -150
 -200

PHS PHASE 1 TEST POINT 1, 1A, 2, 3, AND 4
 DES F
 2 AF4025 PANEL 6 T/C LOCATION 24
 DES F
 3 AF4026 PANEL 6 T/C LOCATION 24
 DES F

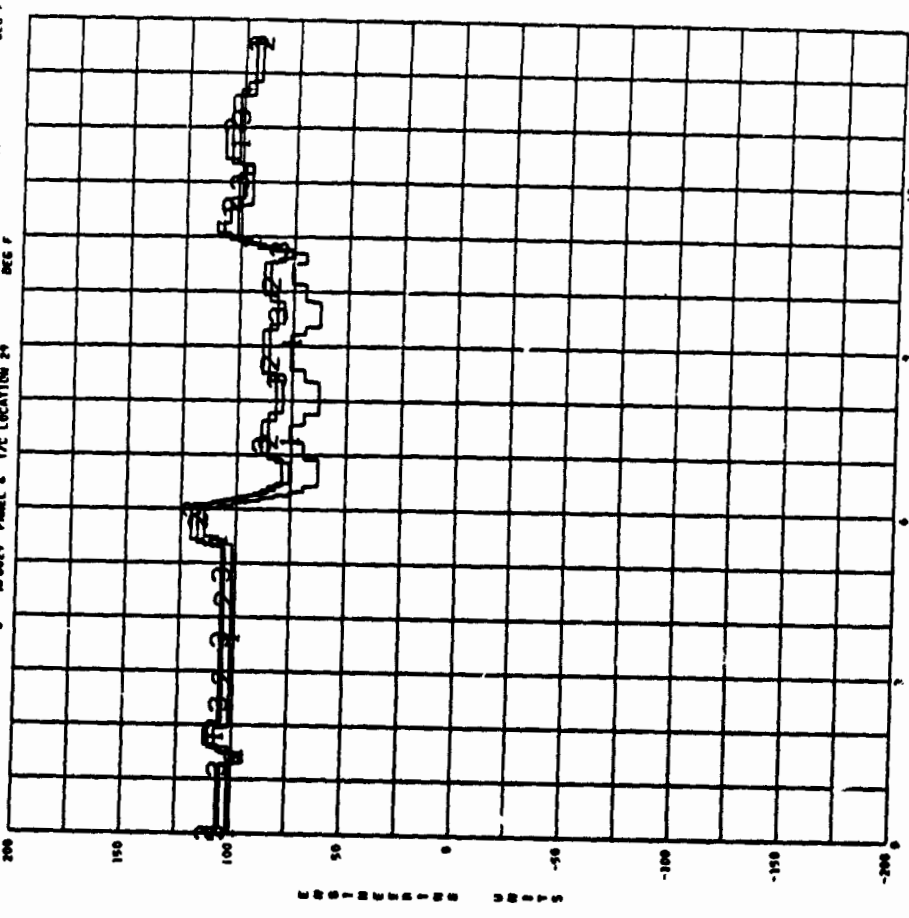


TIME IN HOURS STARTING FROM 0000 DAY 00 HOUR 15 MIN 24 ***

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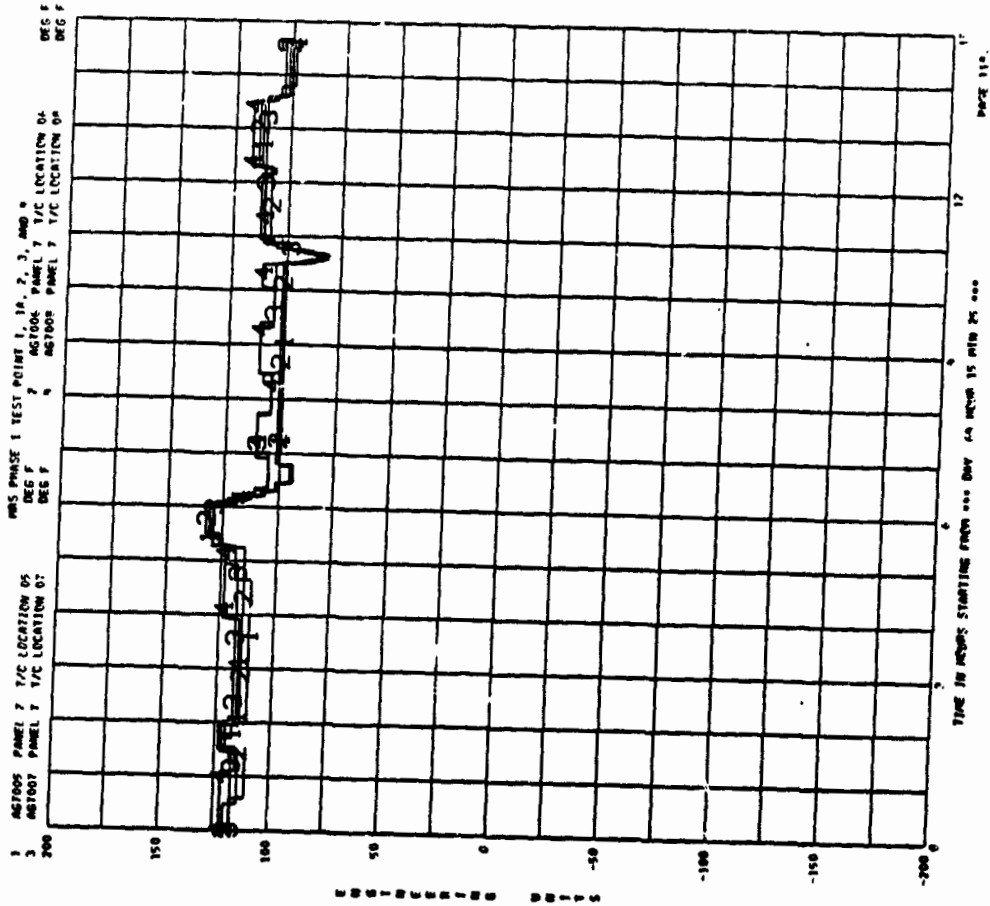
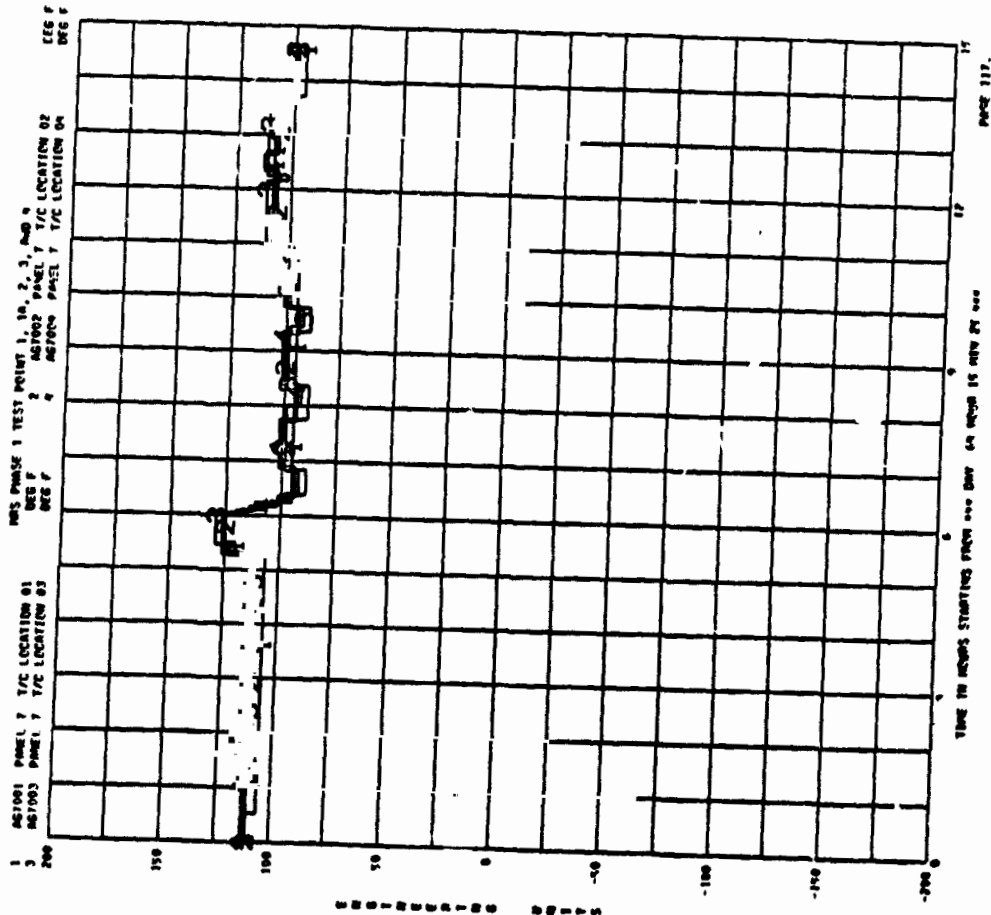
1 AF4011 PANEL 6 T/C LOCATION 11
 200
 150
 100
 50
 0
 -50
 -100
 -150
 -200

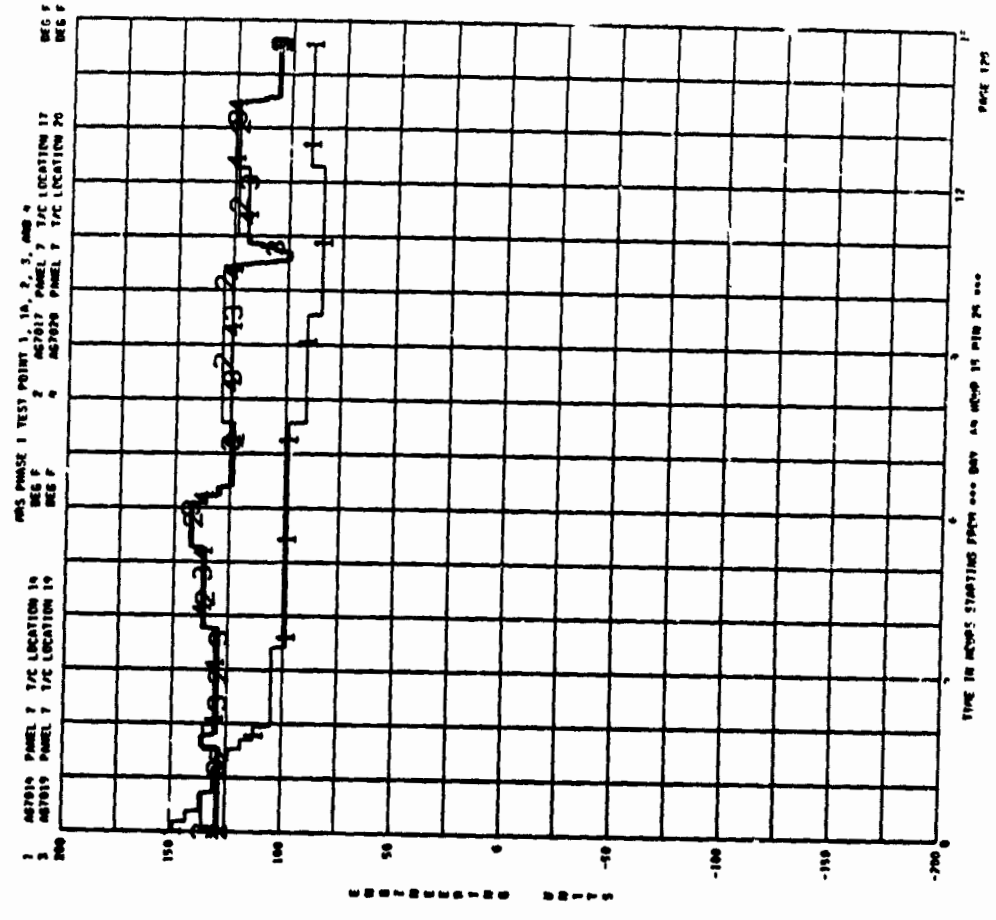
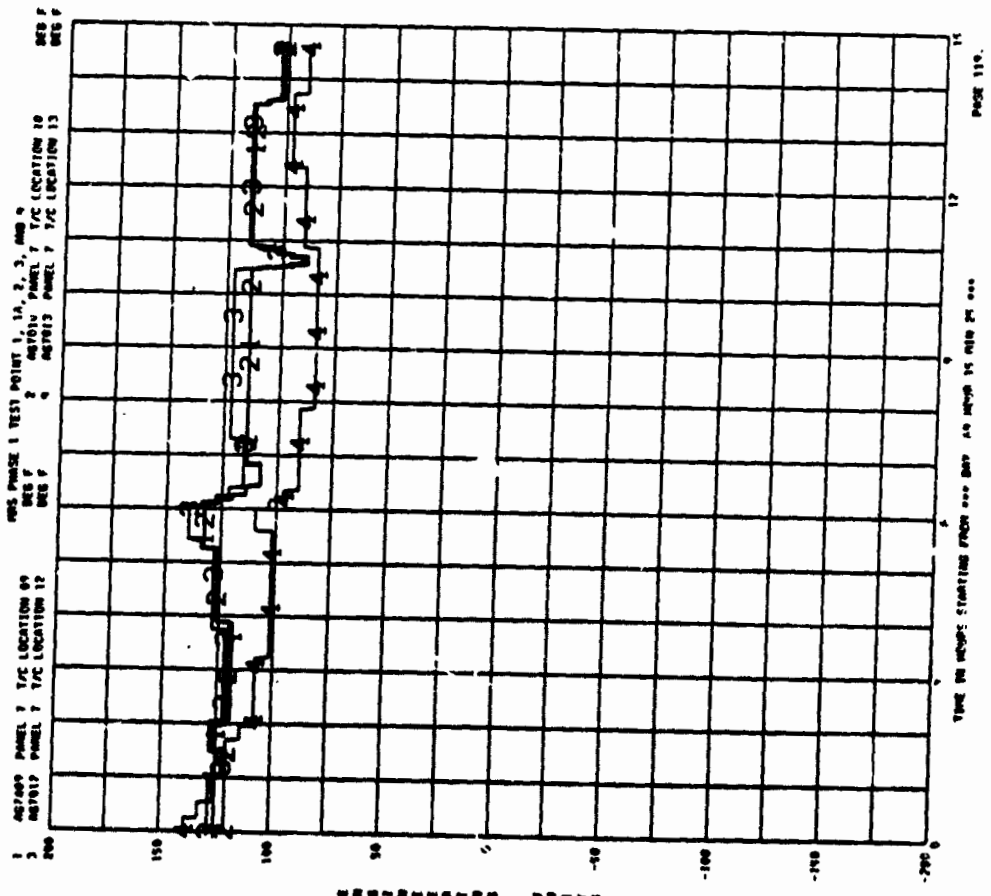
PHS PHASE 1 TEST POINT 1, 1A, 2, 3, AND 4
 DES F
 2 AF4012 PANEL 6 T/C LOCATION 11
 DES F
 3 AF4013 PANEL 6 T/C LOCATION 11
 DES F

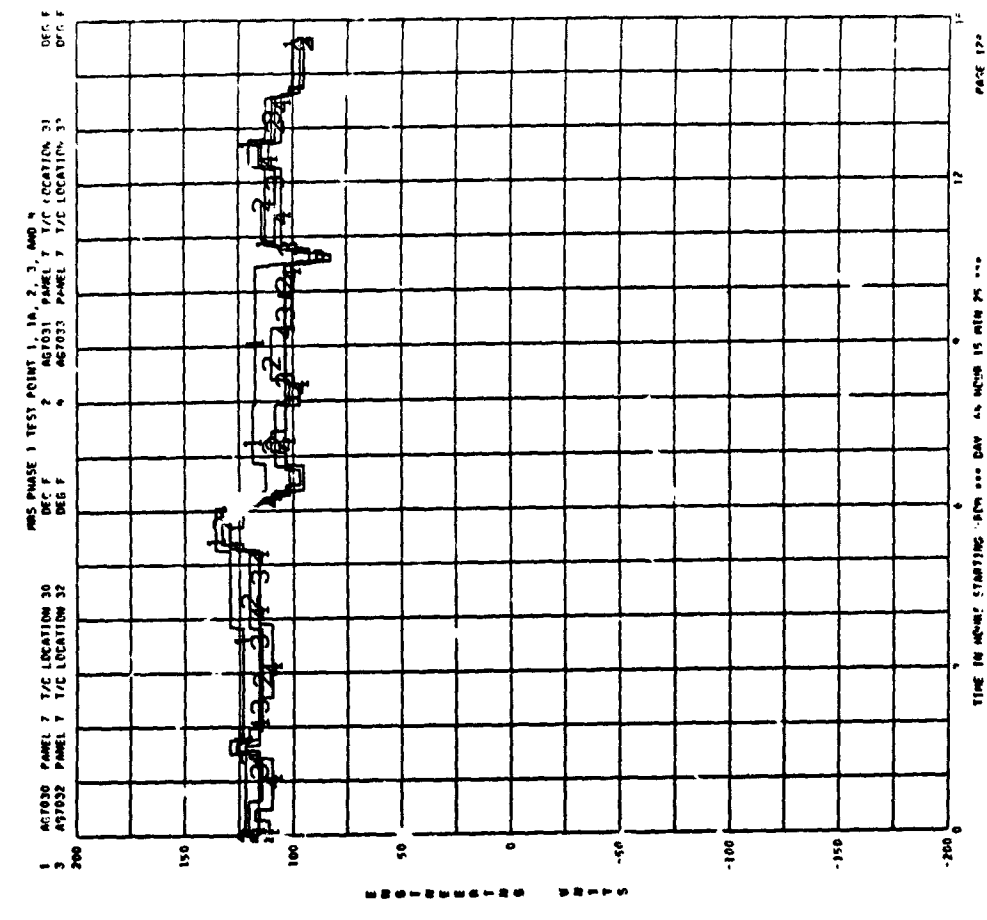
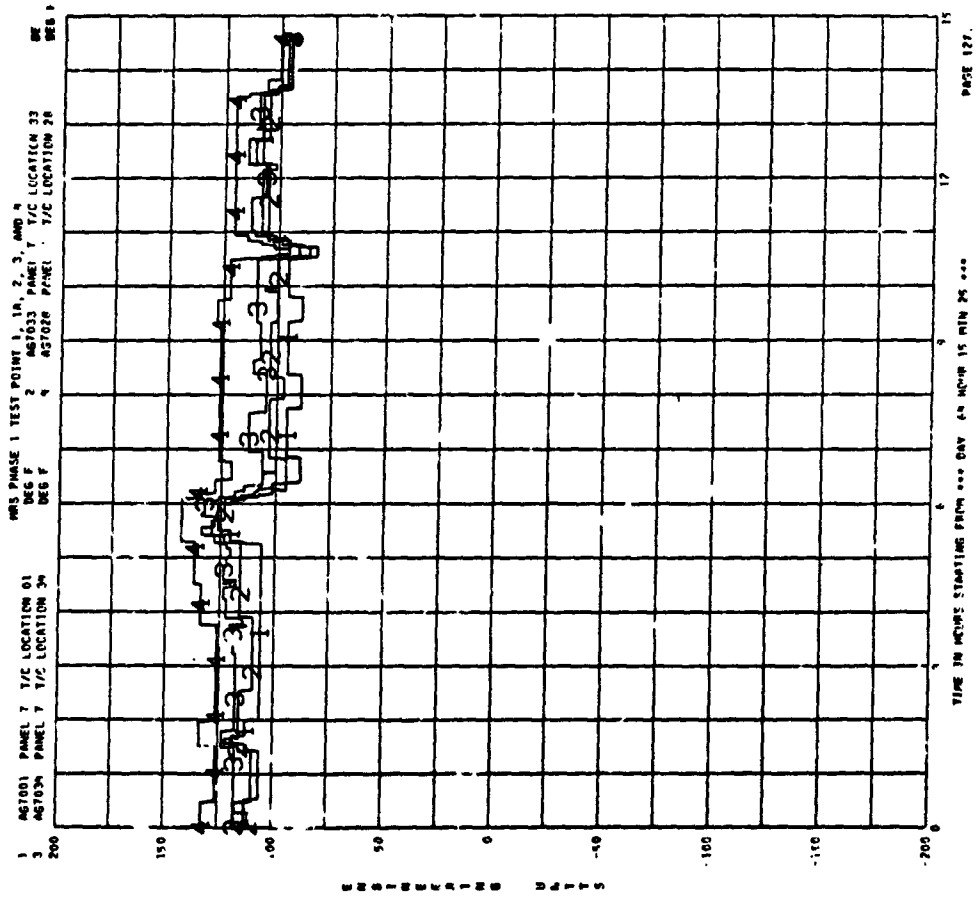


TIME IN HOURS STARTING FROM 0000 DAY 00 HOUR 15 MIN 24 ***

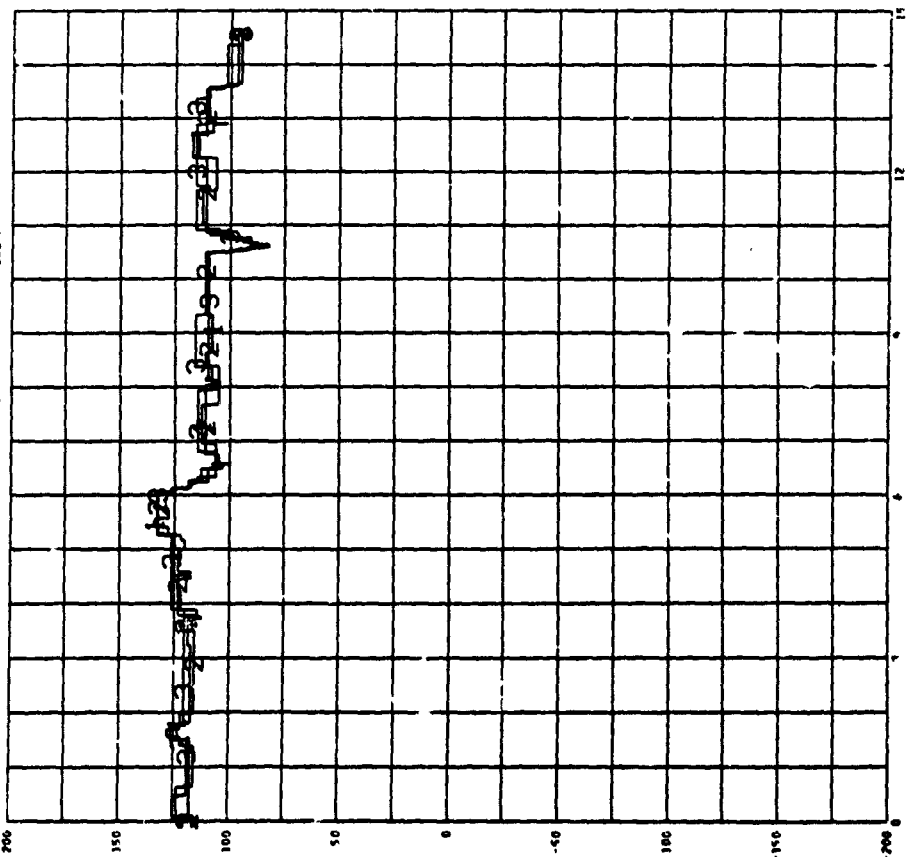
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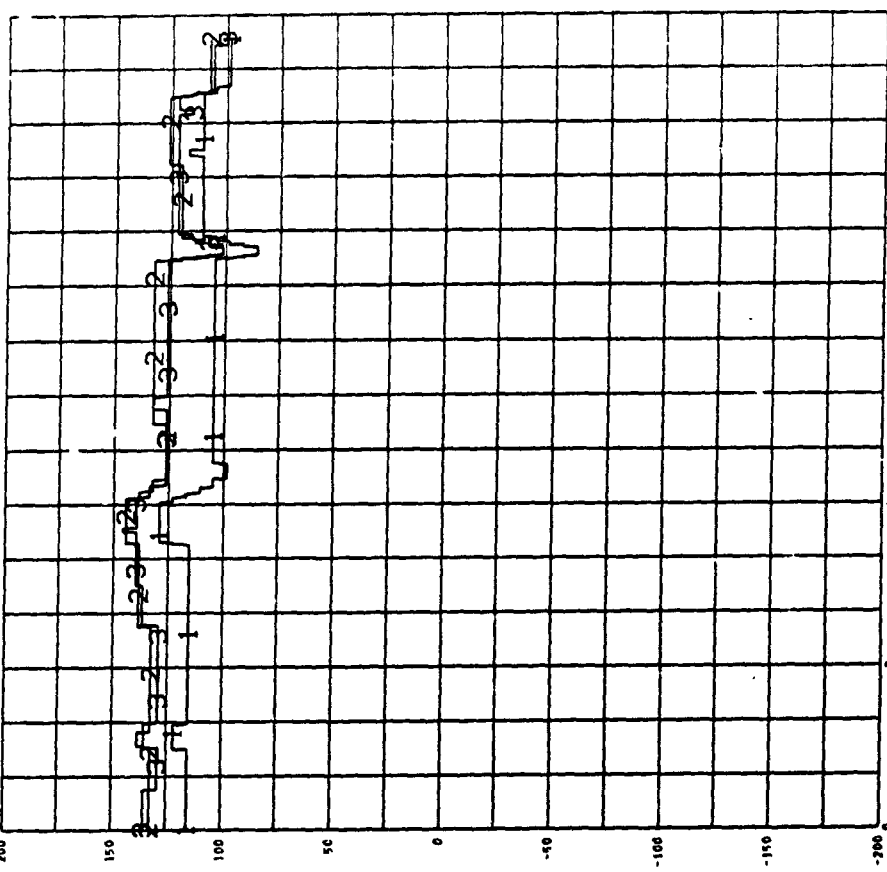


1 AST034 PANEL 7 T/C LOCATION 34
 2 AST035 PANEL 7 T/C LOCATION 35
 3 AST036 PANEL 7 T/C LOCATION 36
 RMS PHASE 1 TEST POINT 1, 1A, 2, 3, AND 4
 DEG F
 DEG F
 DEG F

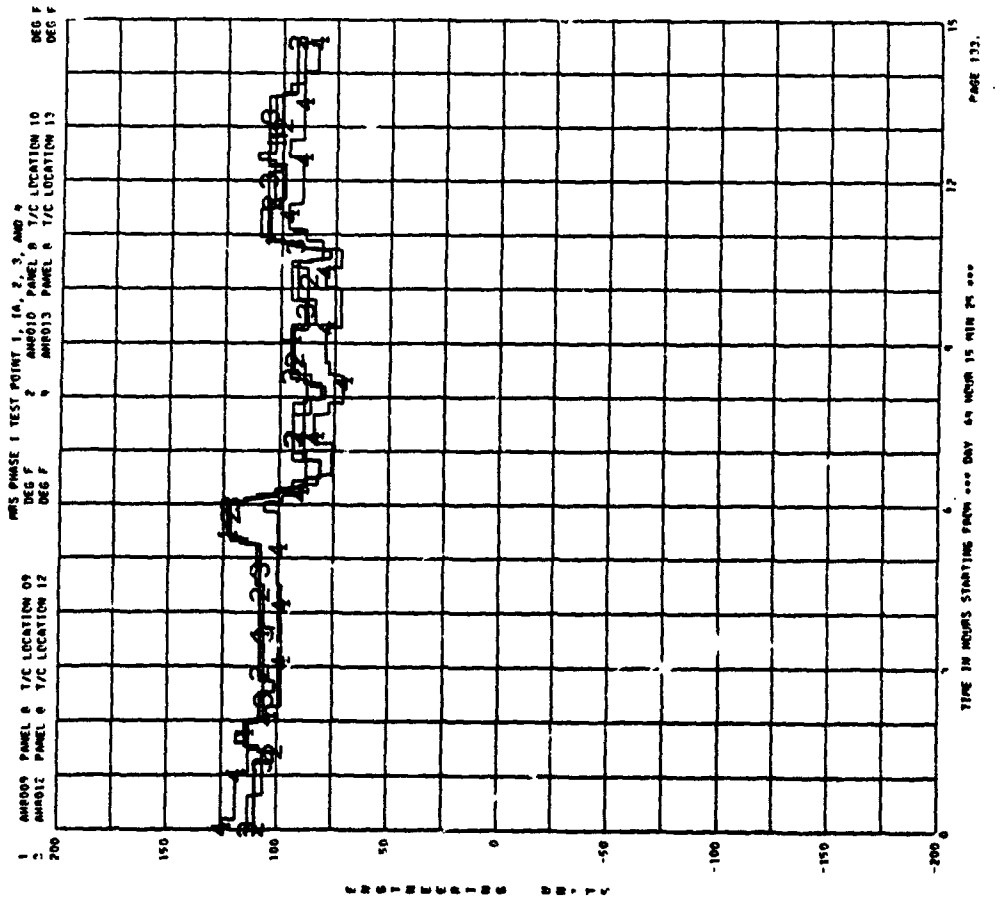
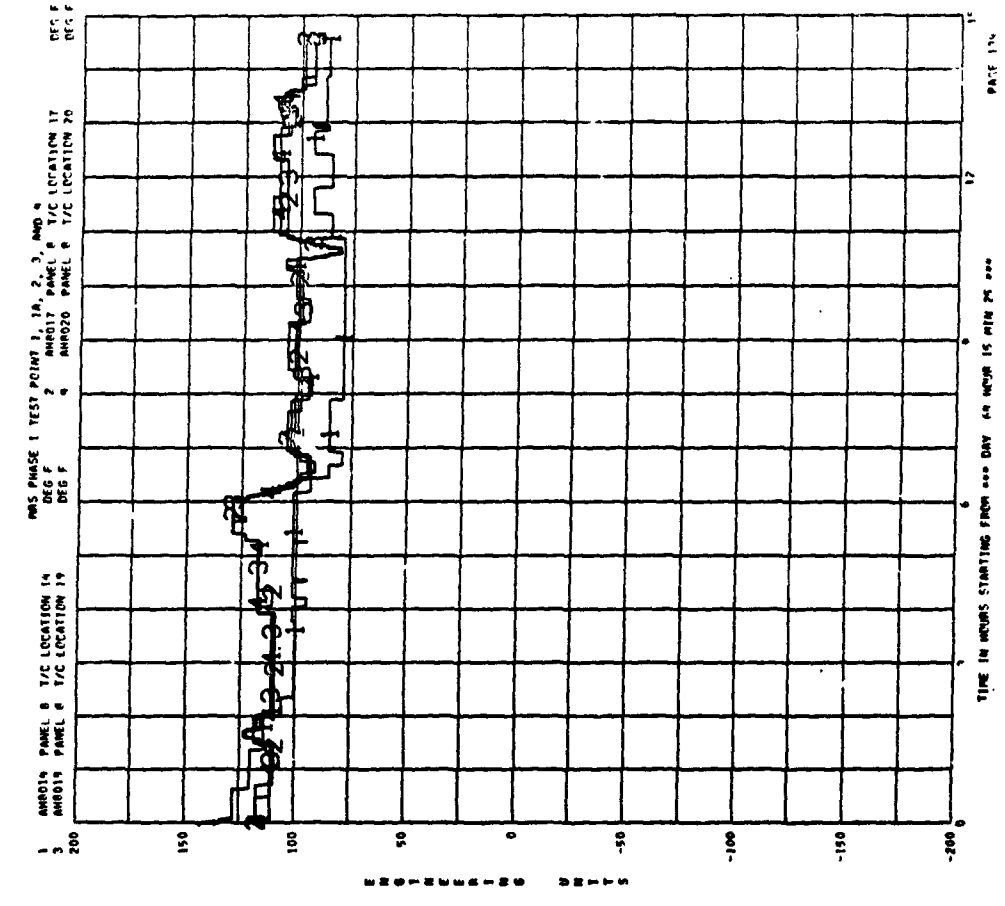


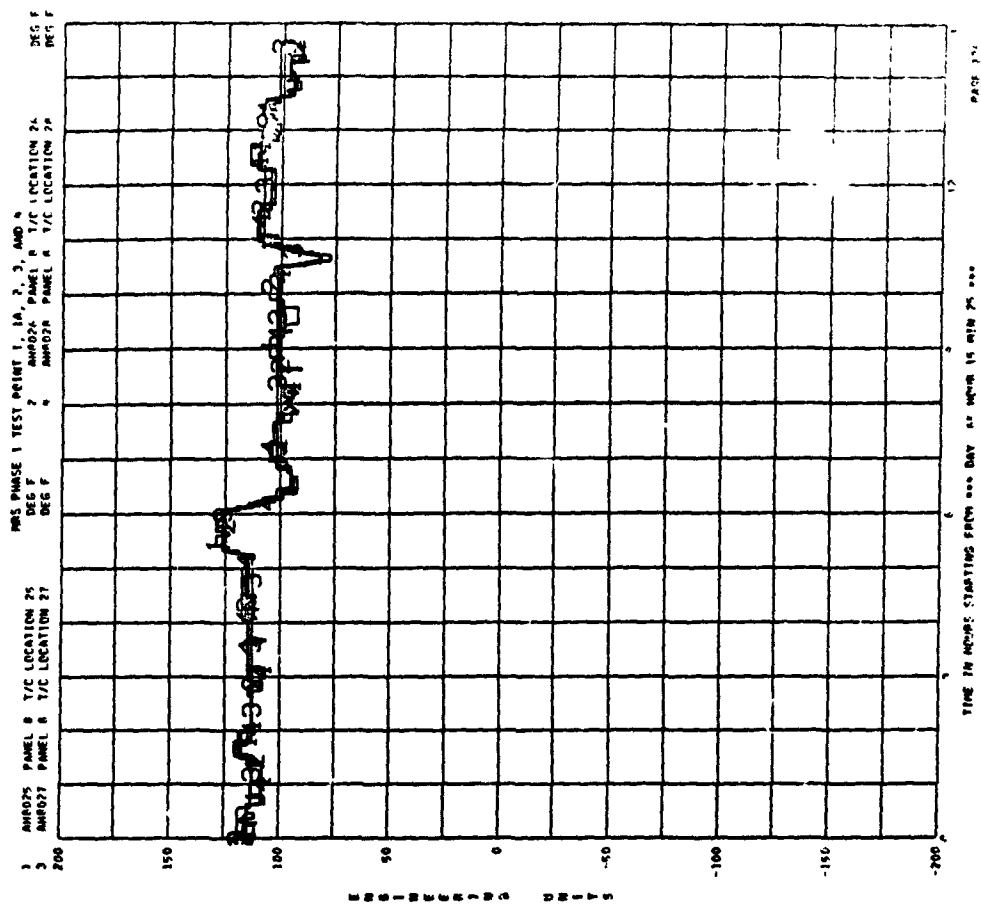
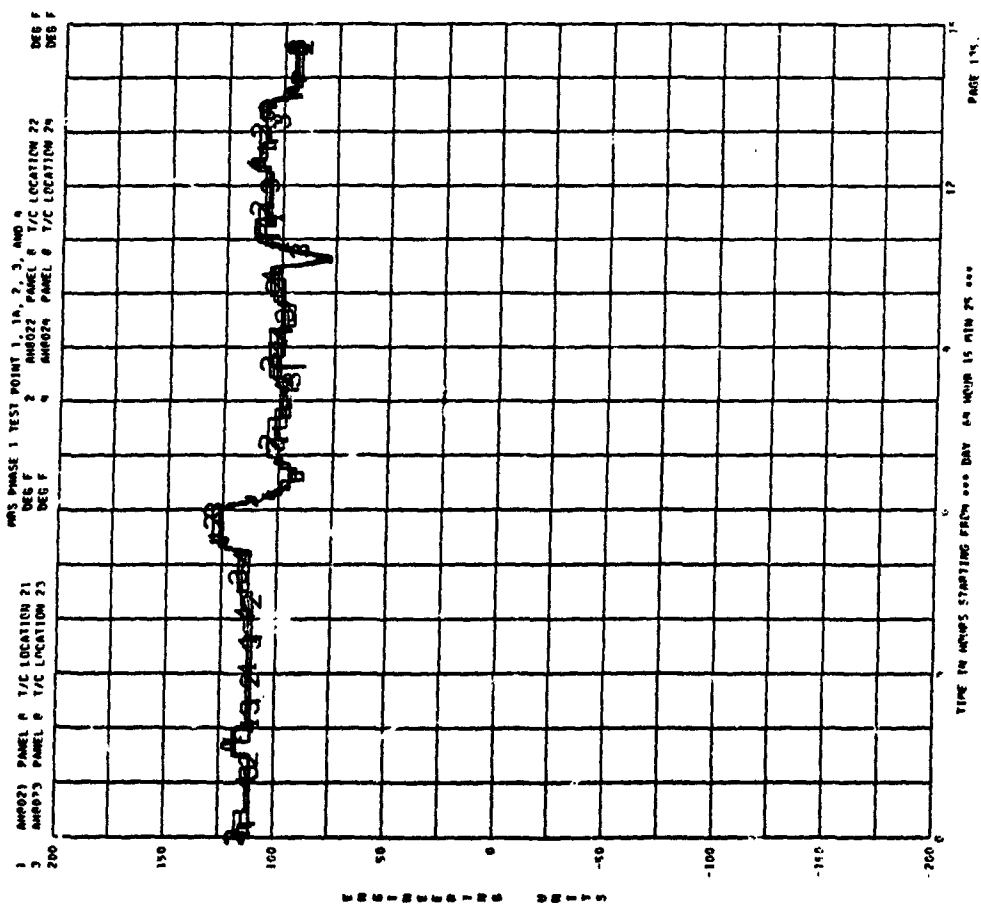
TIME IN HOURS STARTING FROM 0000 HRS ON HOUR 15 MIN 25 SEC

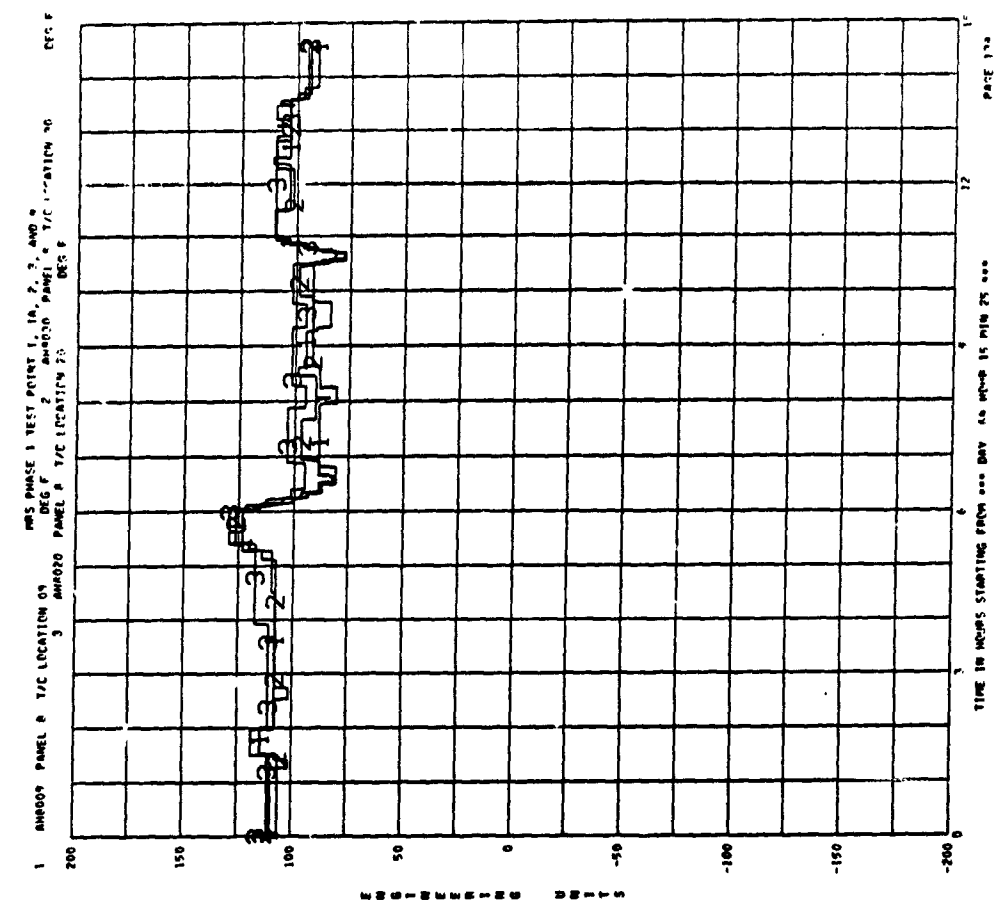
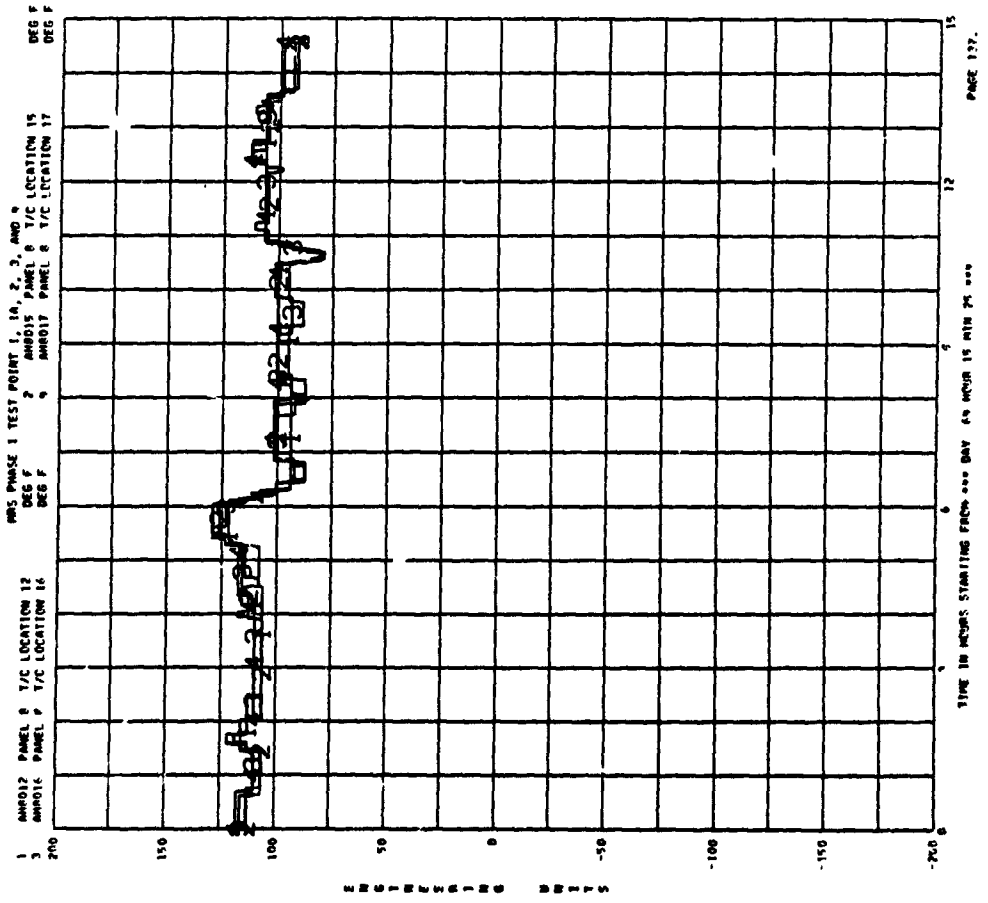
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 6 AST016 PANEL 7 T/C LOCATION 16
 7 AST017 PANEL 7 T/C LOCATION 17
 8 AST018 PANEL 7 T/C LOCATION 18
 9 AST019 PANEL 7 T/C LOCATION 19
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 100 AST110 PANEL 7 T/C LOCATION 110

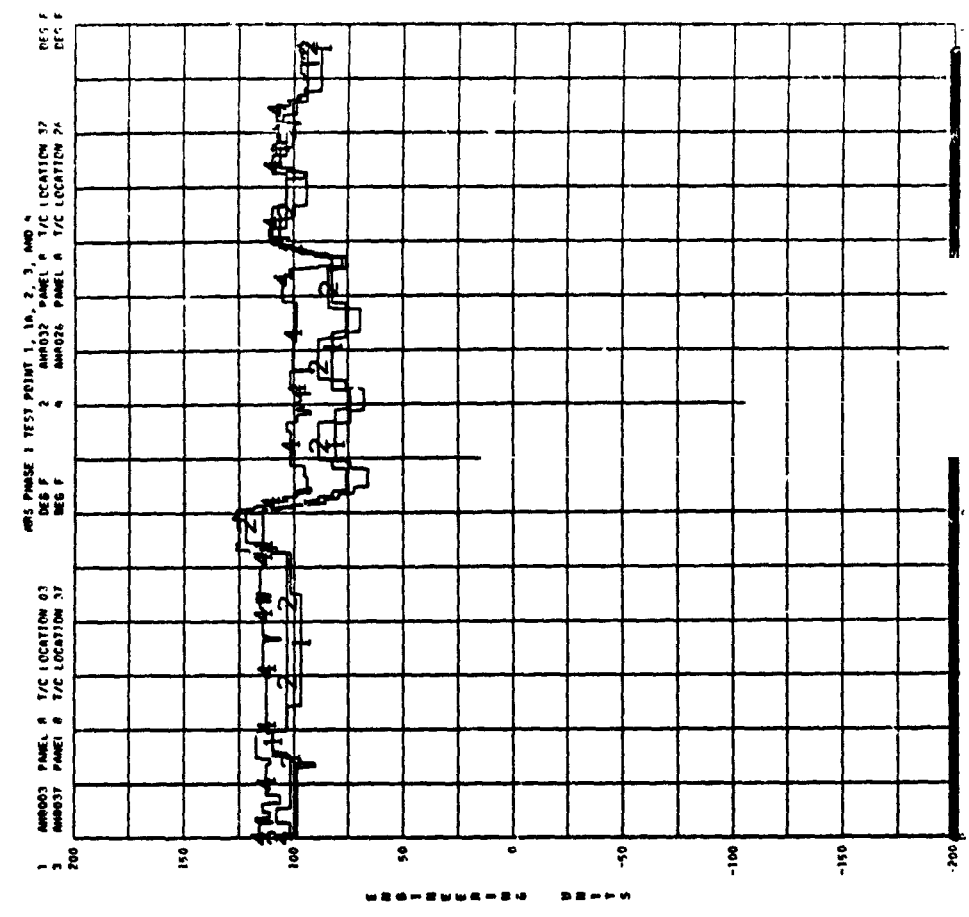
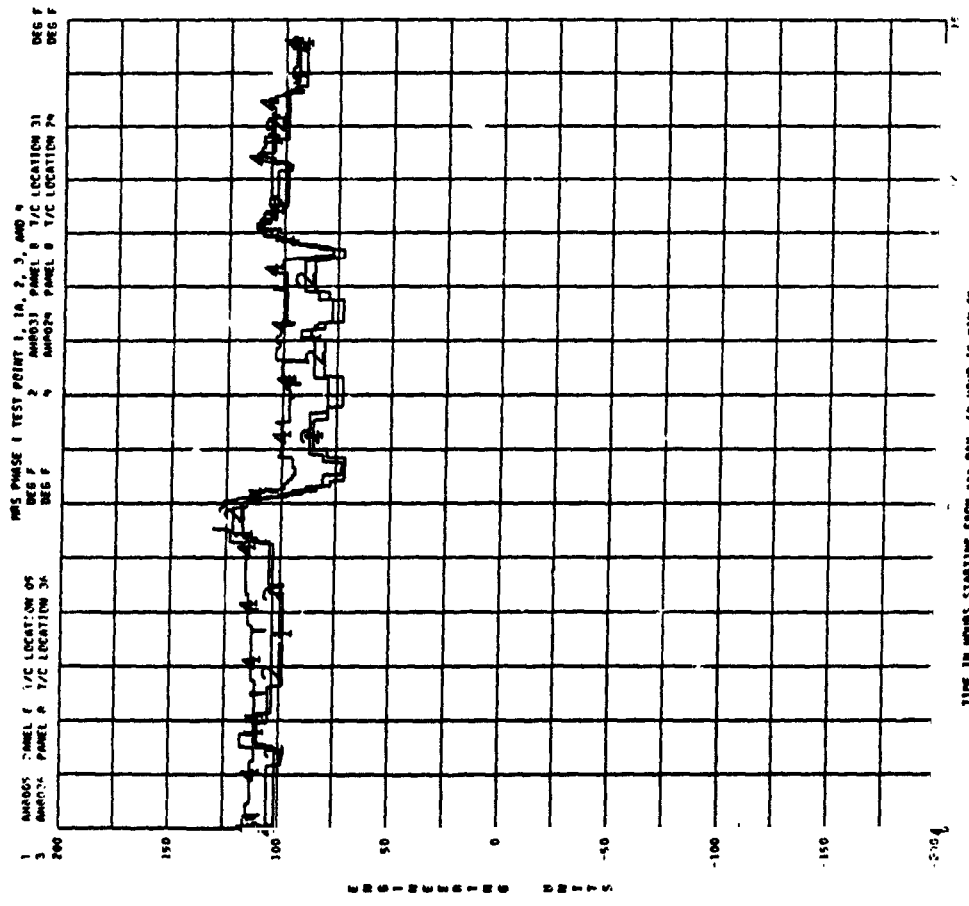


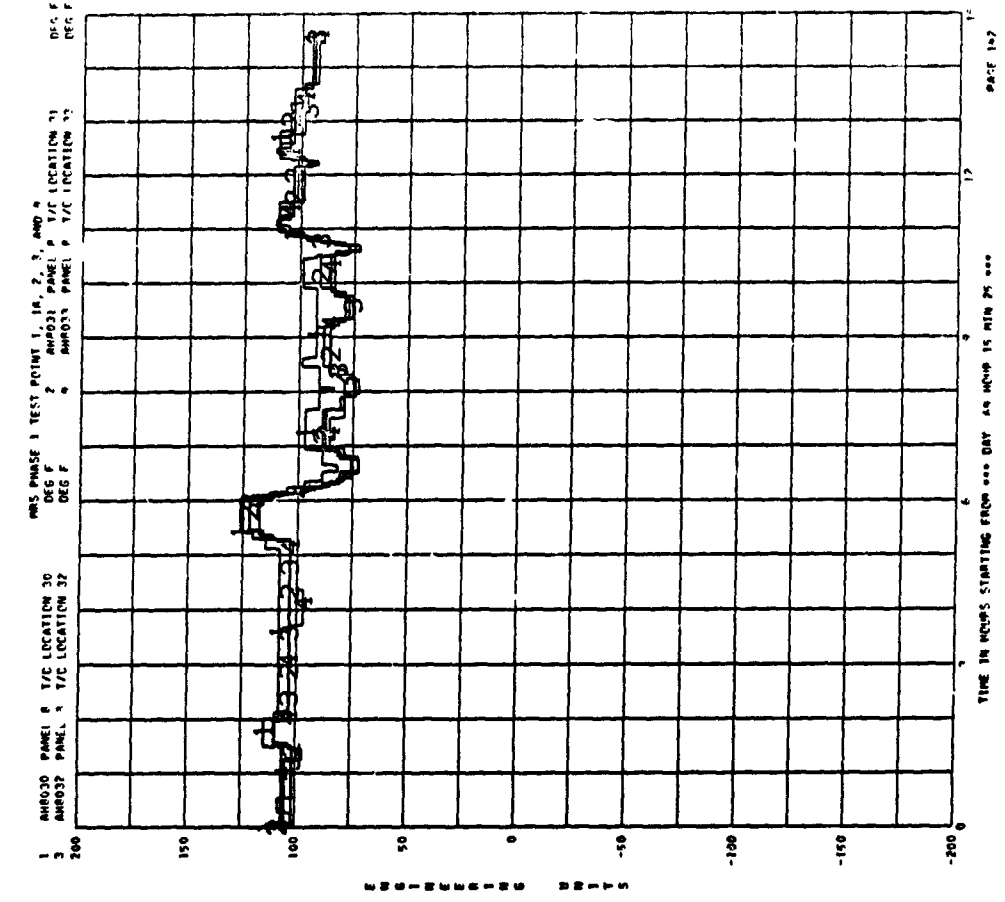
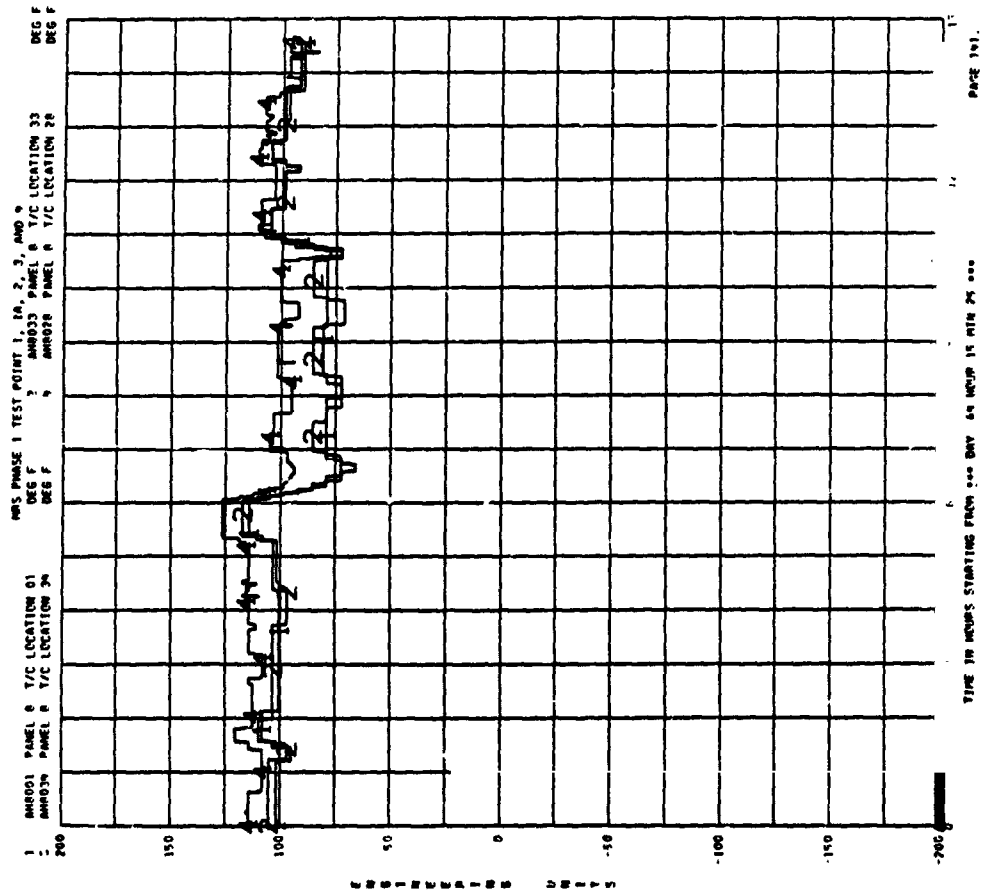
TIME IN HOURS STARTING FROM 0000 HRS ON HOUR 15 MIN 25 SEC

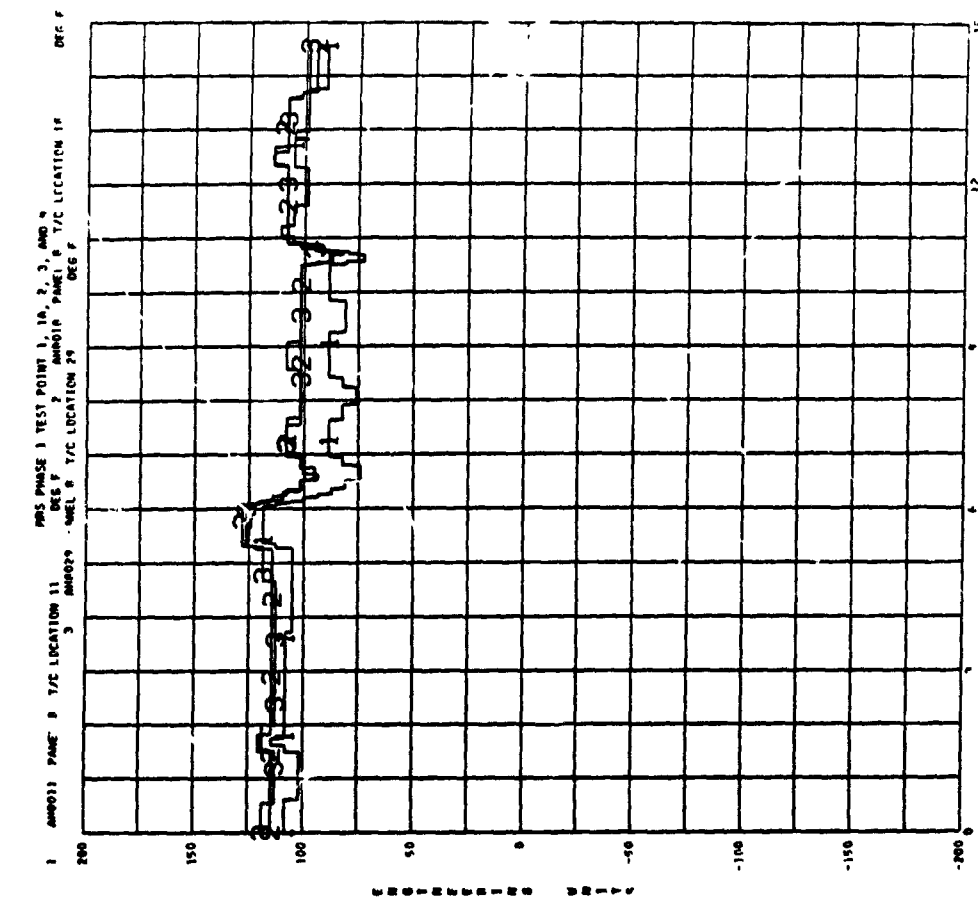
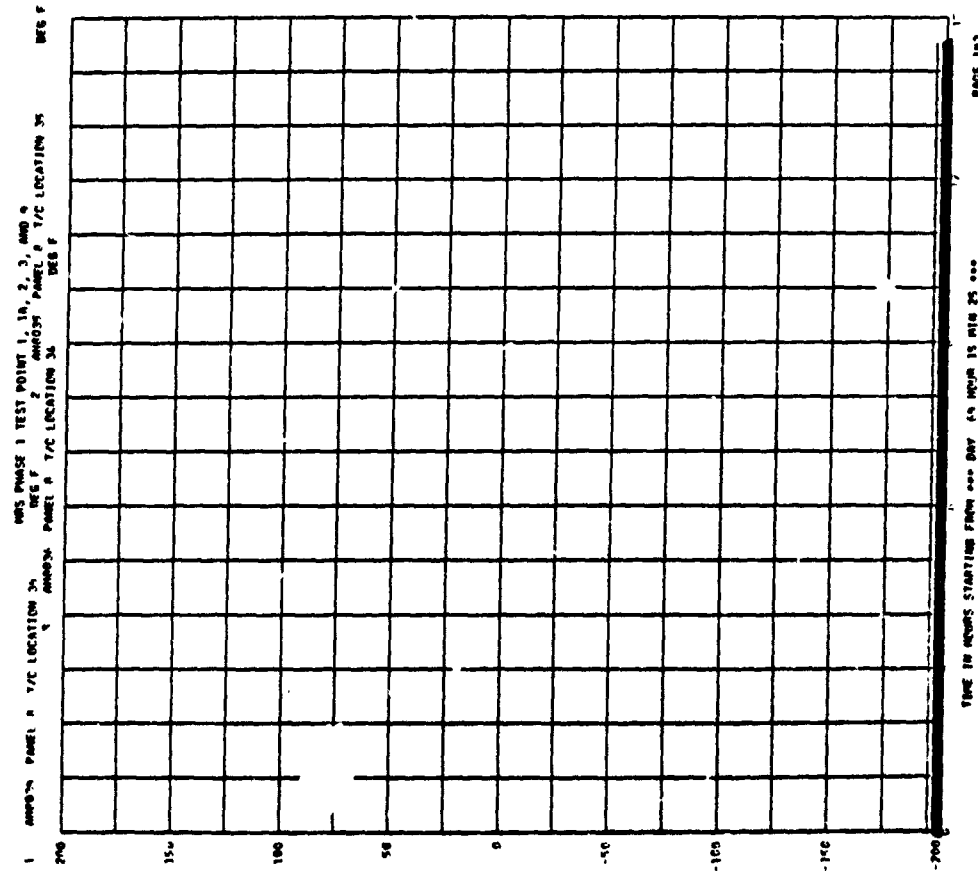












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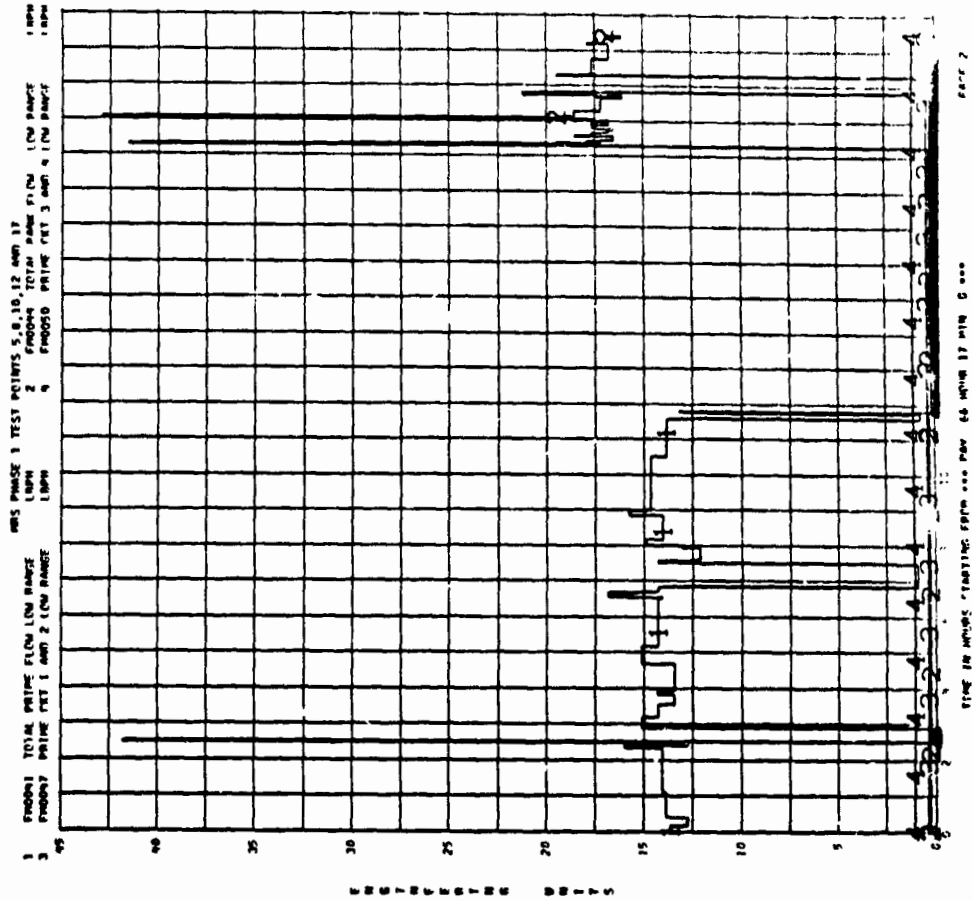
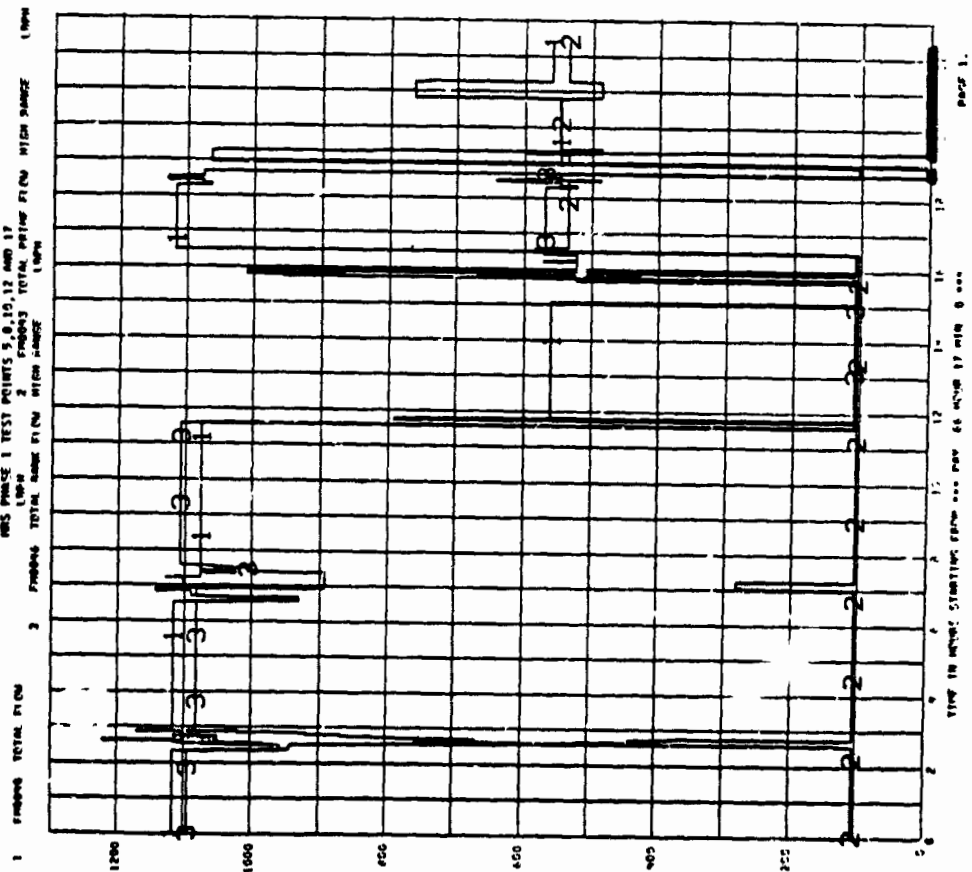
TIME IN HOURS STARTING FROM 0000 HRS ON NOV 15 1970

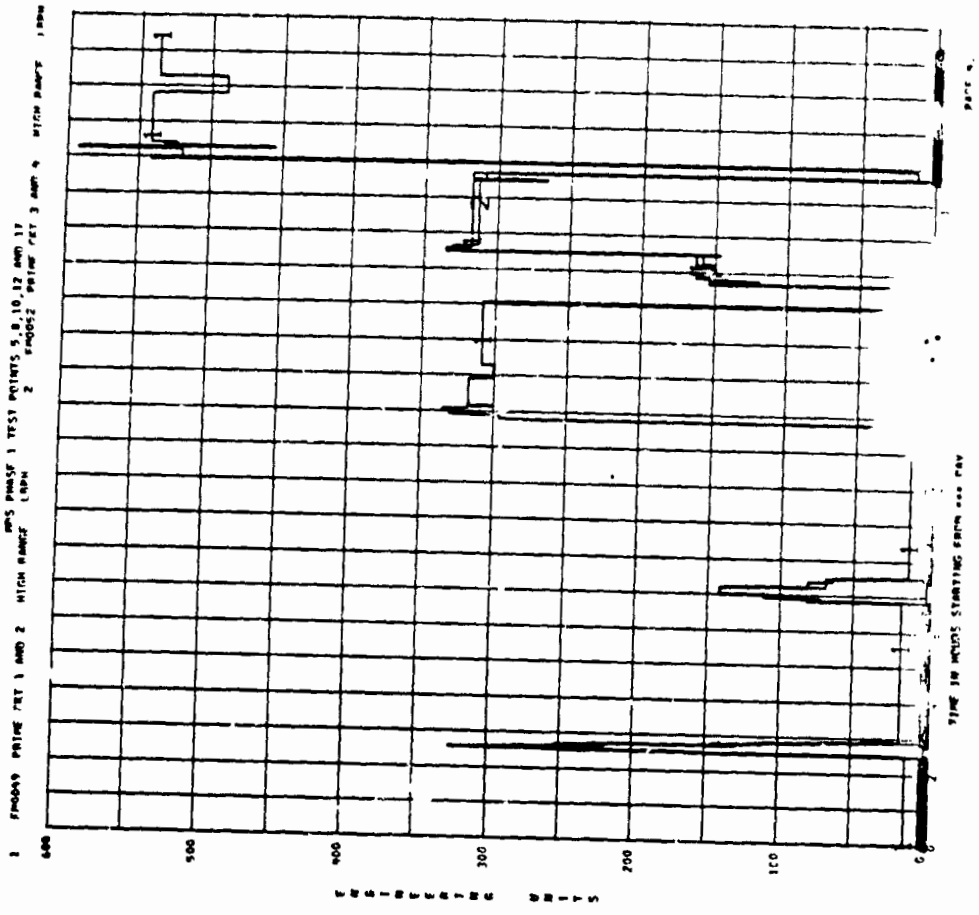
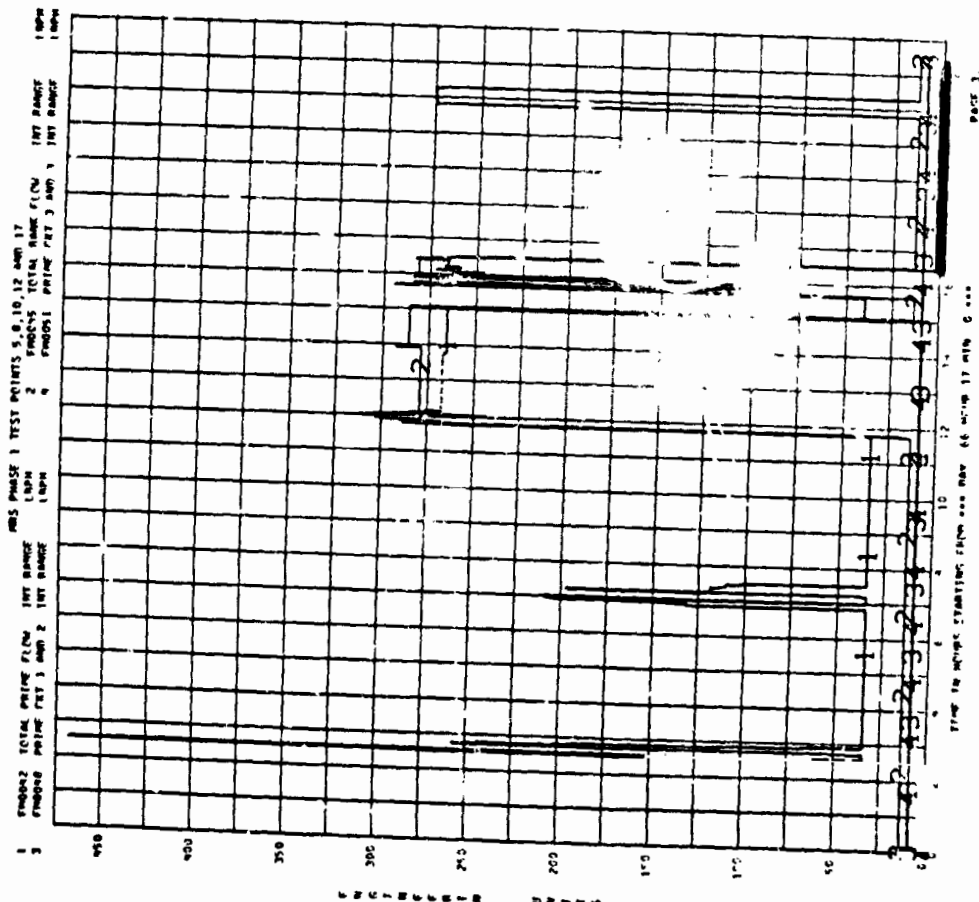
TEST GROUP B

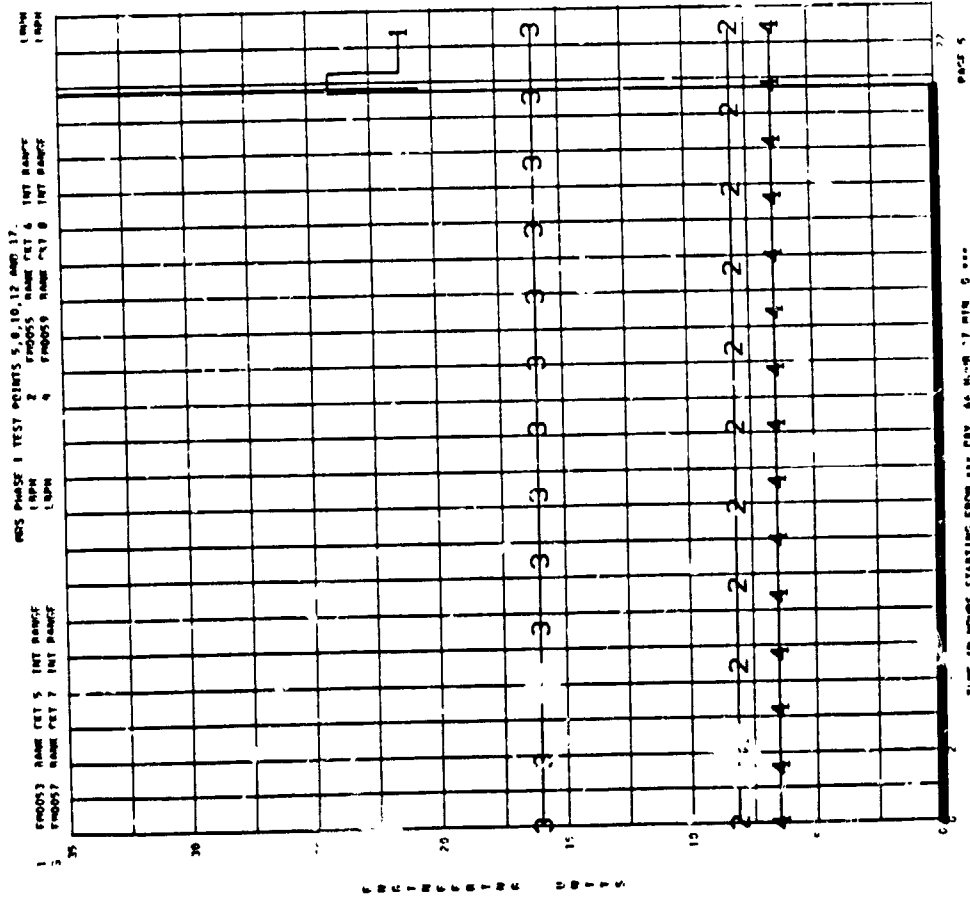
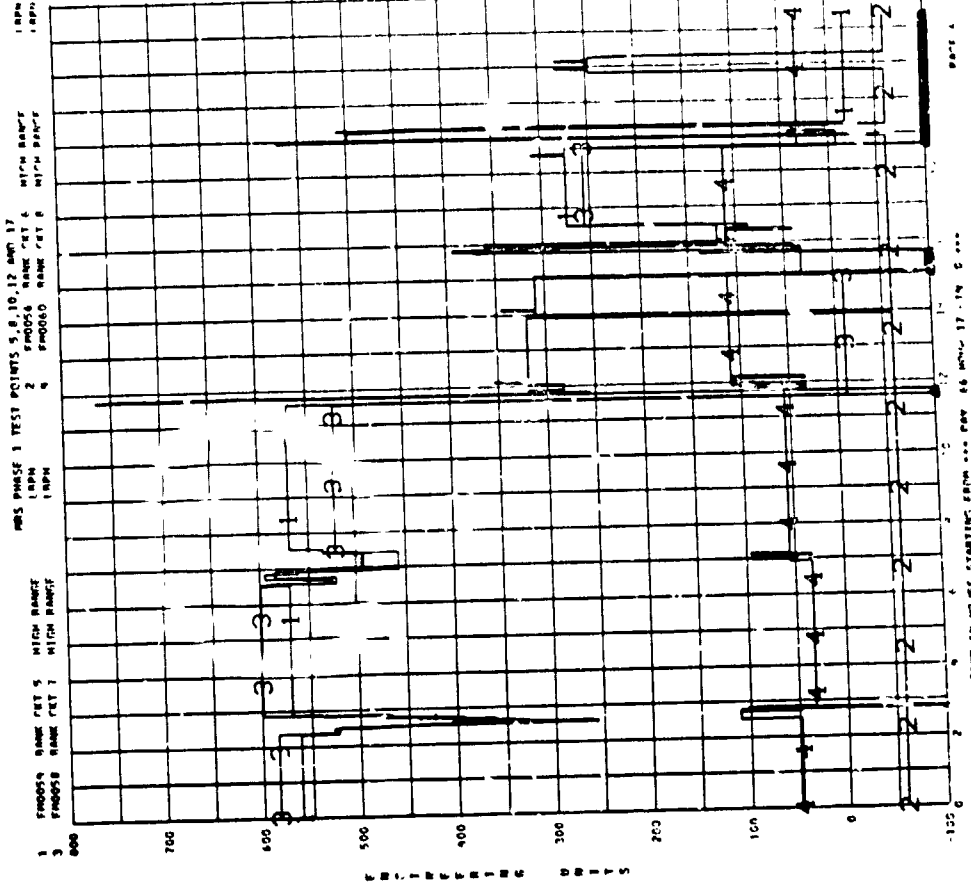
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INCLUDES TEST POINTS

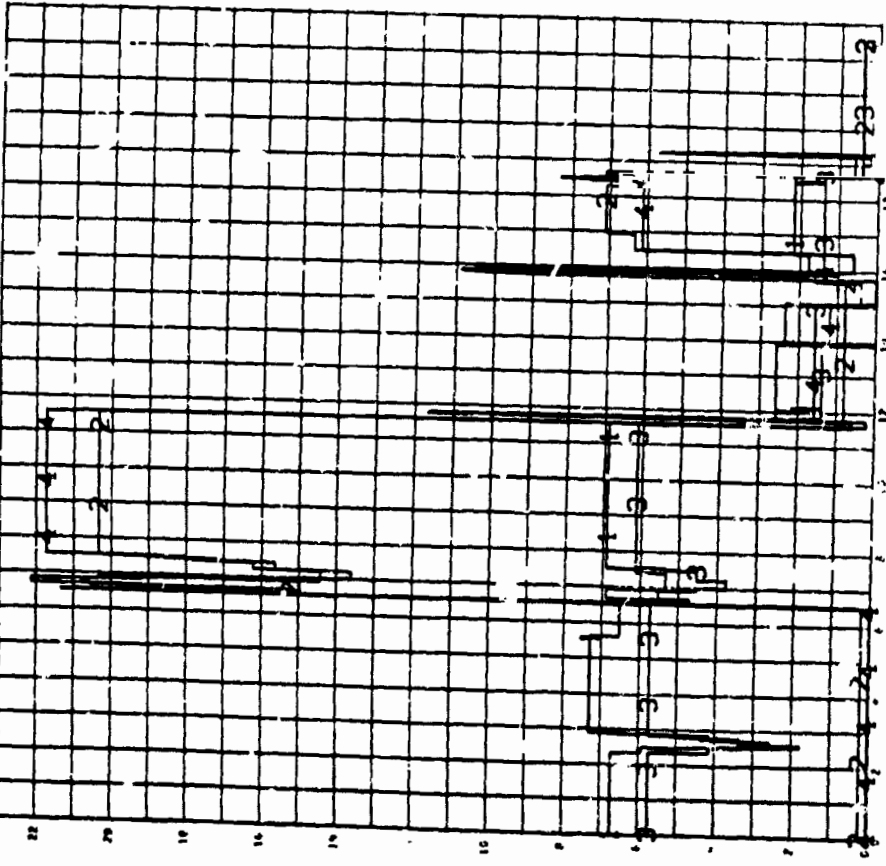
5
8
10
12
17





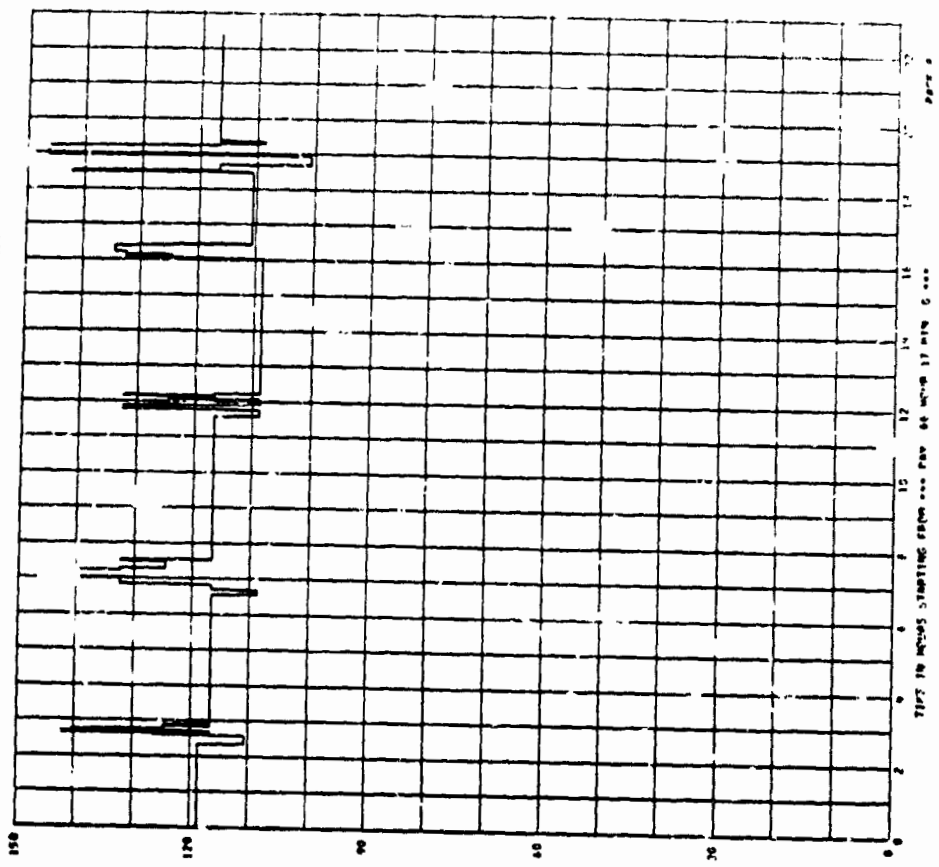


MSD PHASE 1 TEST POINTS 5, 8, 10, 12 AND 17
 1 PERIODS NAME PANEL 1 HELIX PRESSURE PSTD
 2 PERIODS NAME PANEL 2 HELIX PRESSURE PSTD
 3 PERIODS NAME PANEL 3 HELIX PRESSURE PSTD
 4 PERIODS NAME PANEL 4 HELIX PRESSURE PSTD
 5 PERIODS NAME PANEL 5 HELIX PRESSURE PSTD



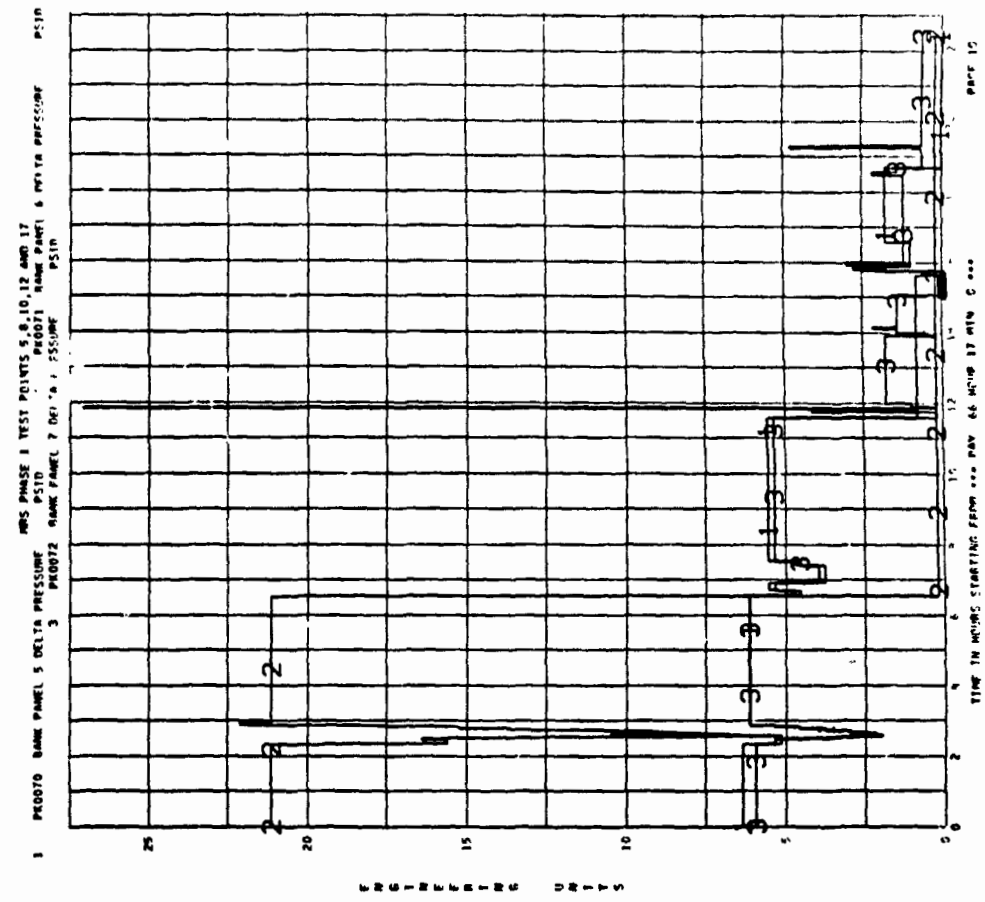
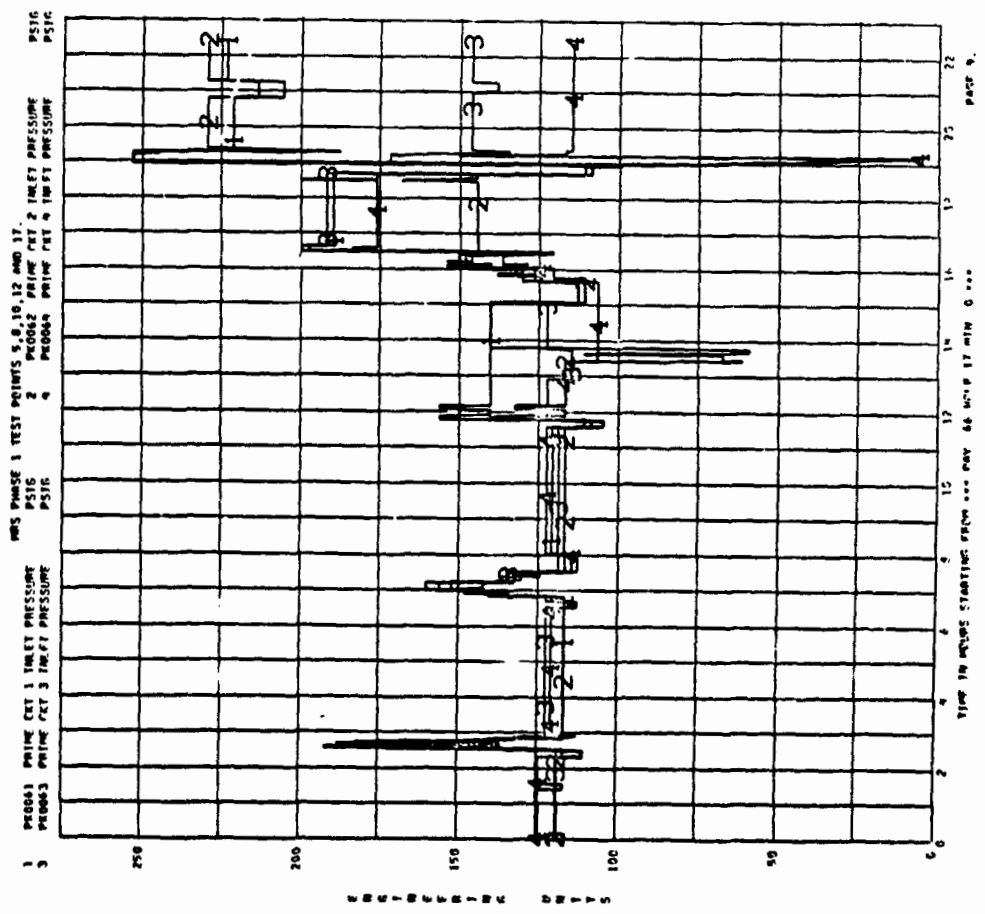
page 1

MSD PHASE 1 TEST POINTS 9, 10, 12 AND 17
 1 PERIODS NAME T-10 AIR CURTAIN PRESSURE PSTC

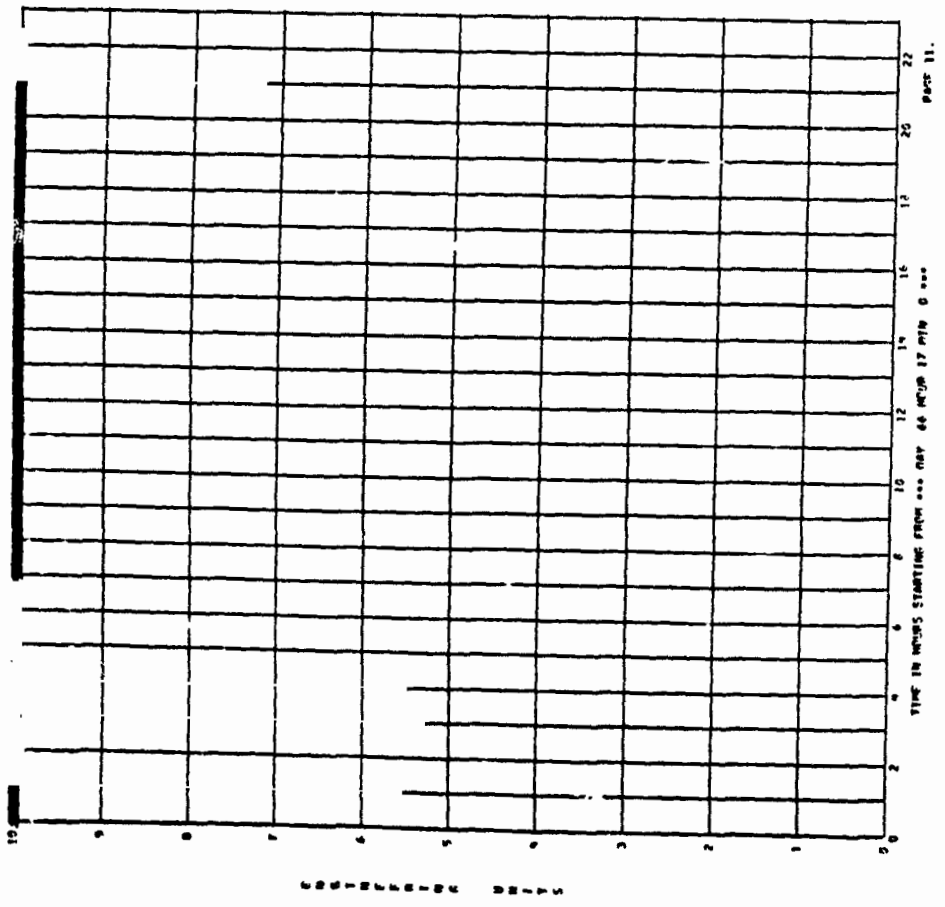


page 2

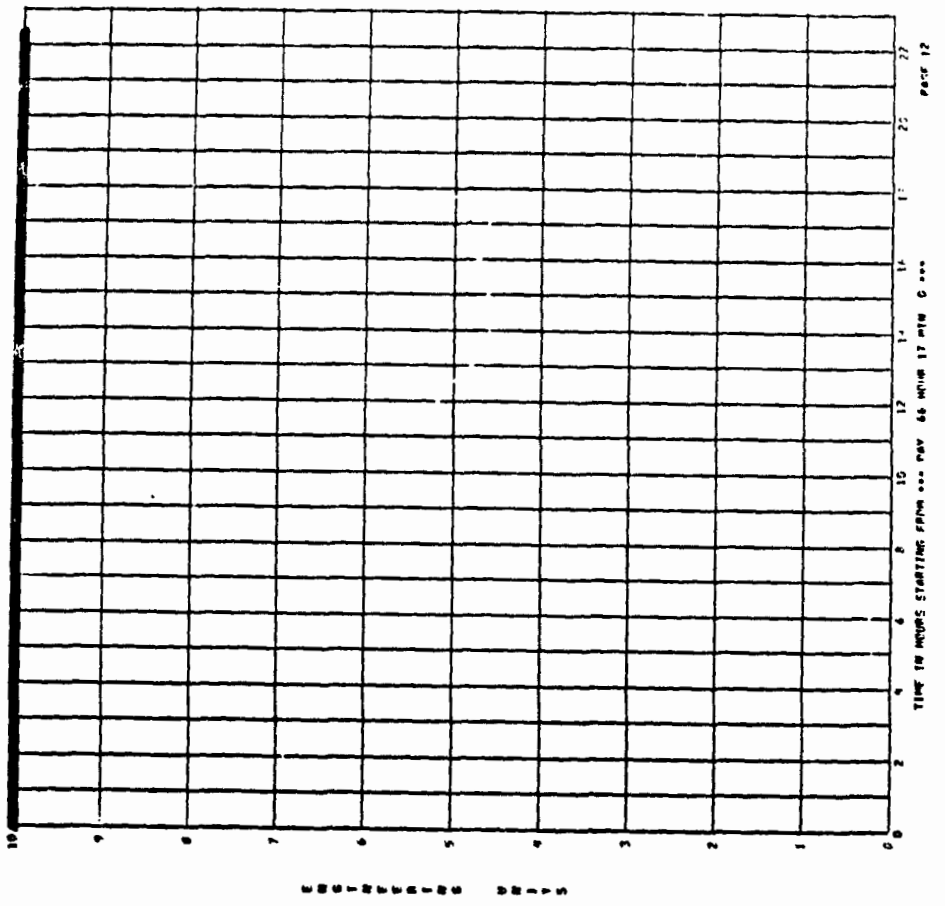
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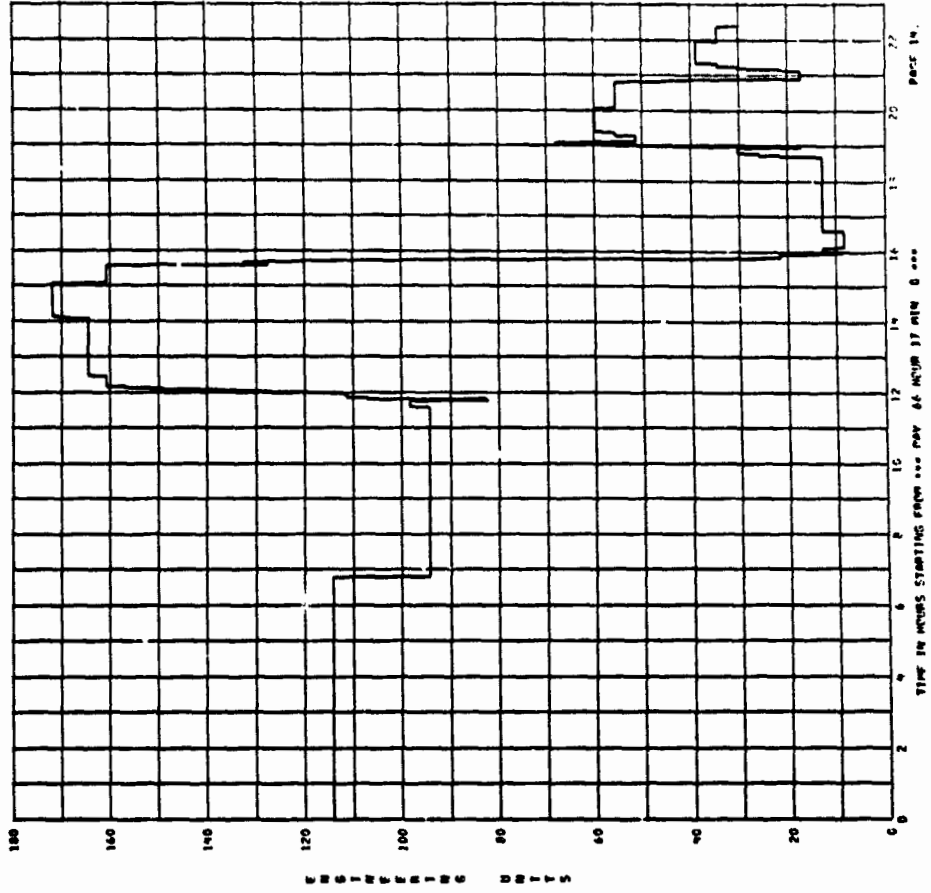
1 410003 PHASE 1 TEST POINTS 9, 10, 12 AND 17.
MFG P



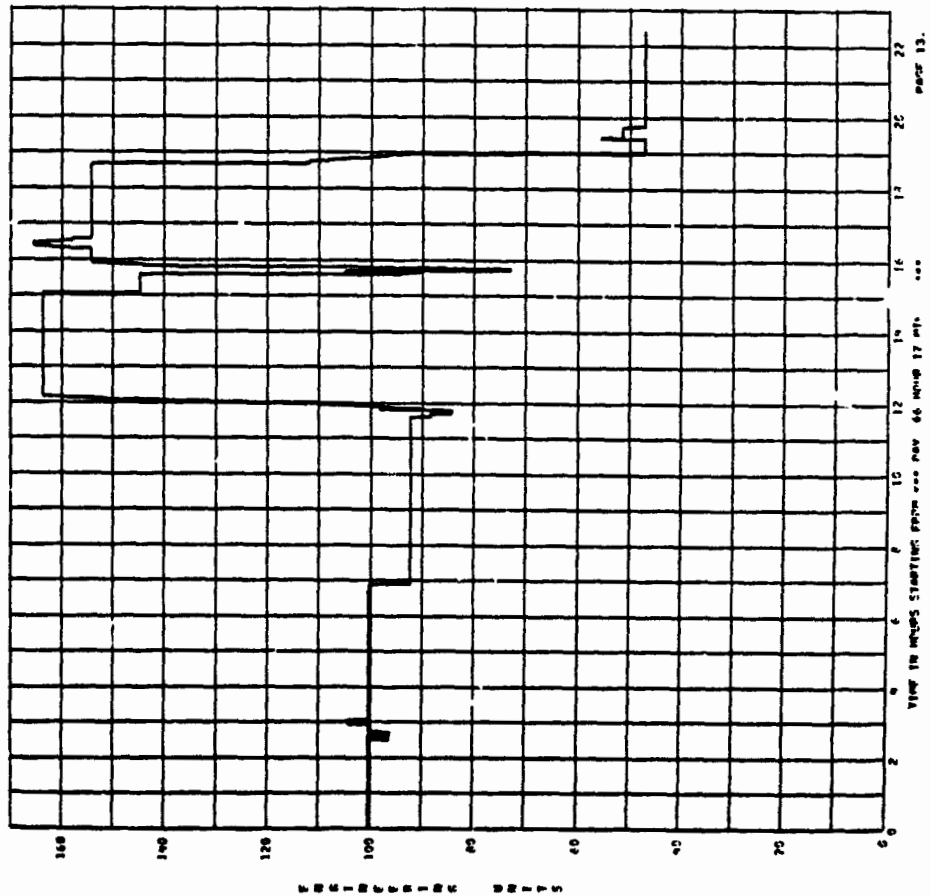
1 410002 PHASE 1 TEST POINTS 5, 8, 10, 12 AND 17.
MFG P



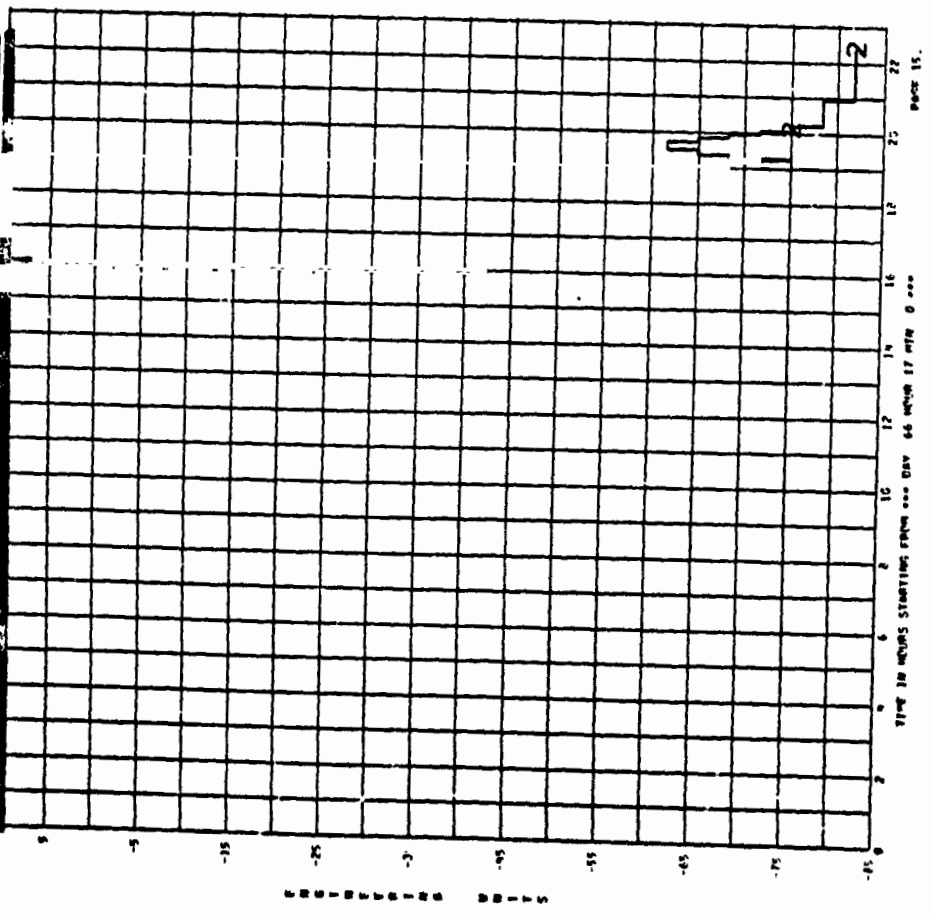
1 0.0002 BANK SYSTEM INLET
 RMS PHASE 1 TEST POINTS 5, 9, 10, 12 AND 17
 DEC 7



1 0.0001 PRIME SYSTEM INLET
 RMS PHASE 1 TEST POINTS 5, 9, 10, 12 AND 17
 DEC 7

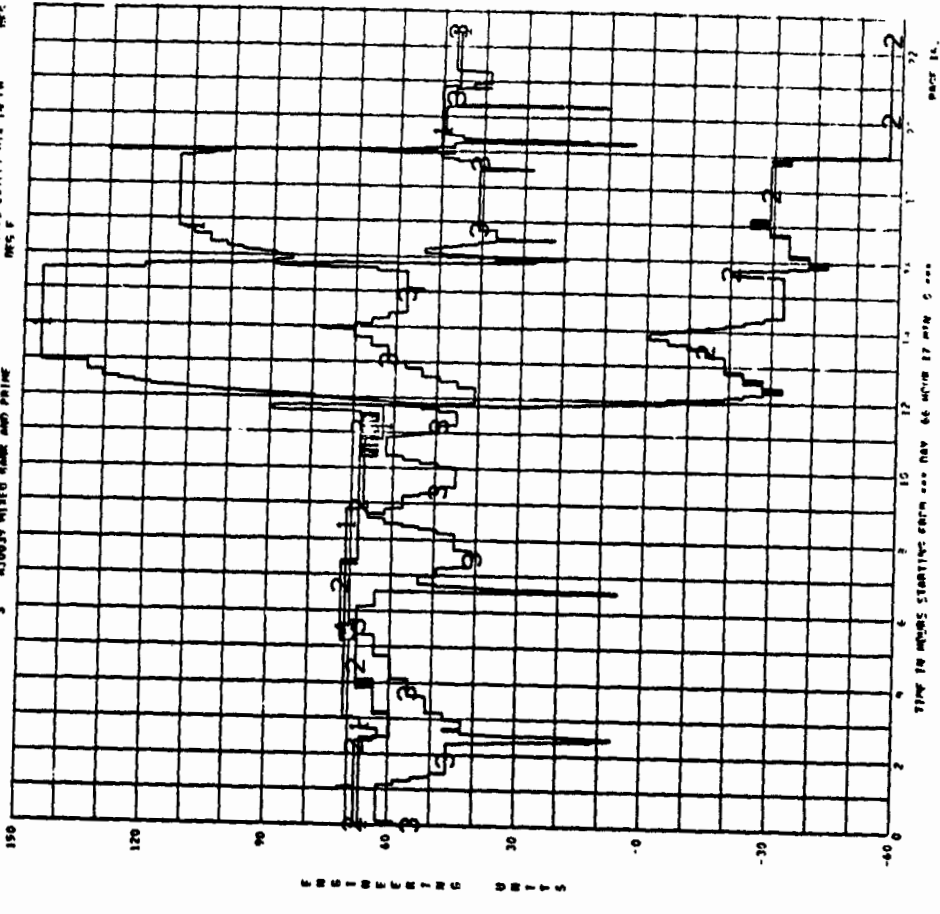


1 810010 PRIME TUNES OUTLET MIX IN CM
 REG. F
 2 810036 NAME TUNES OUTLET MIX IN CM
 REG. F
 3 810039 WISED NAME AND PRIME
 REG. F

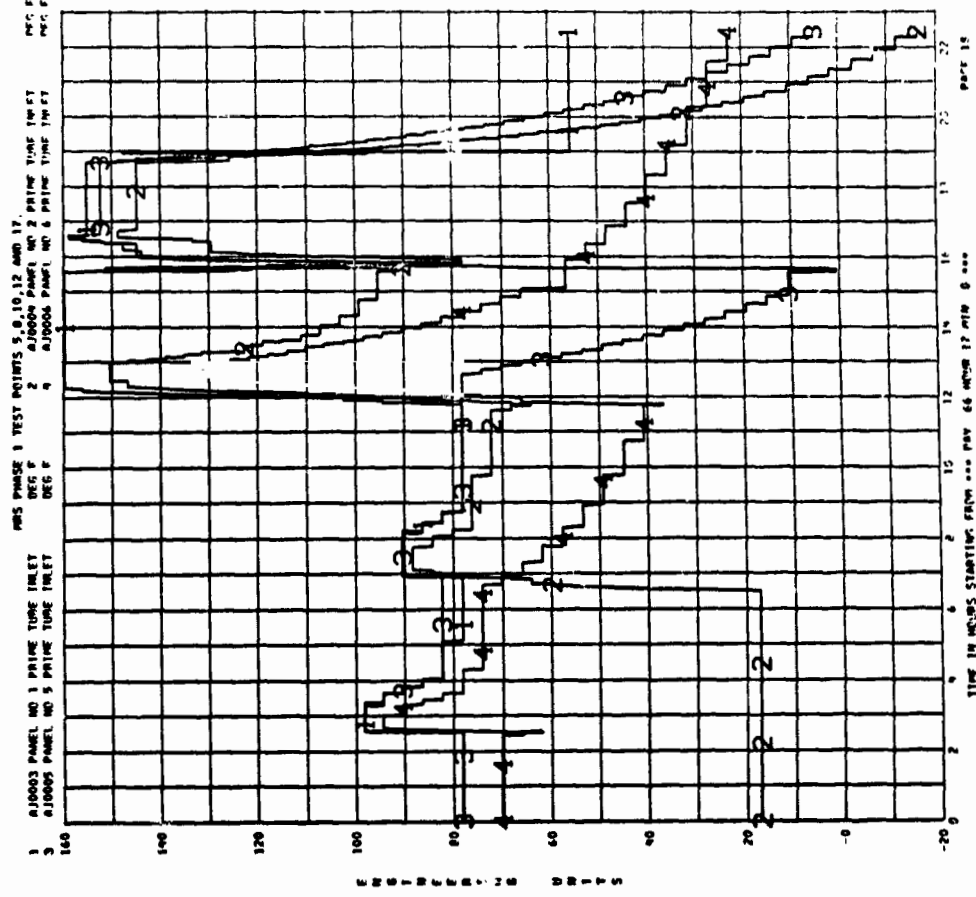
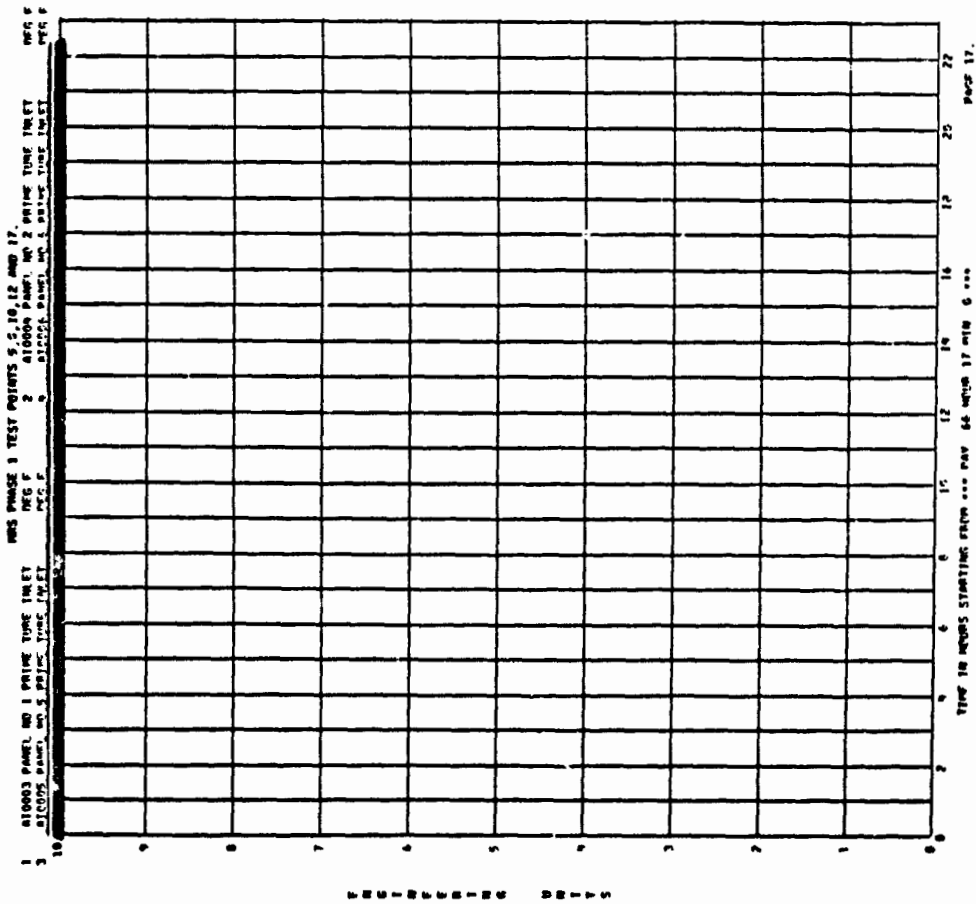


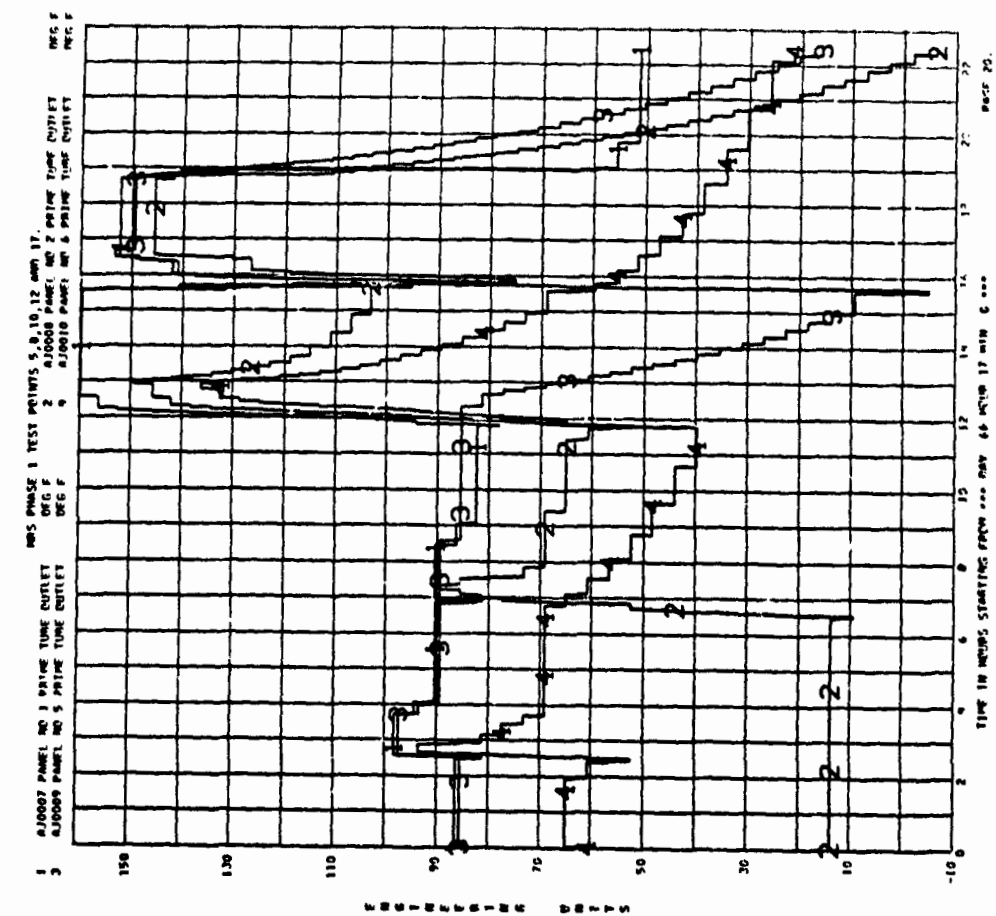
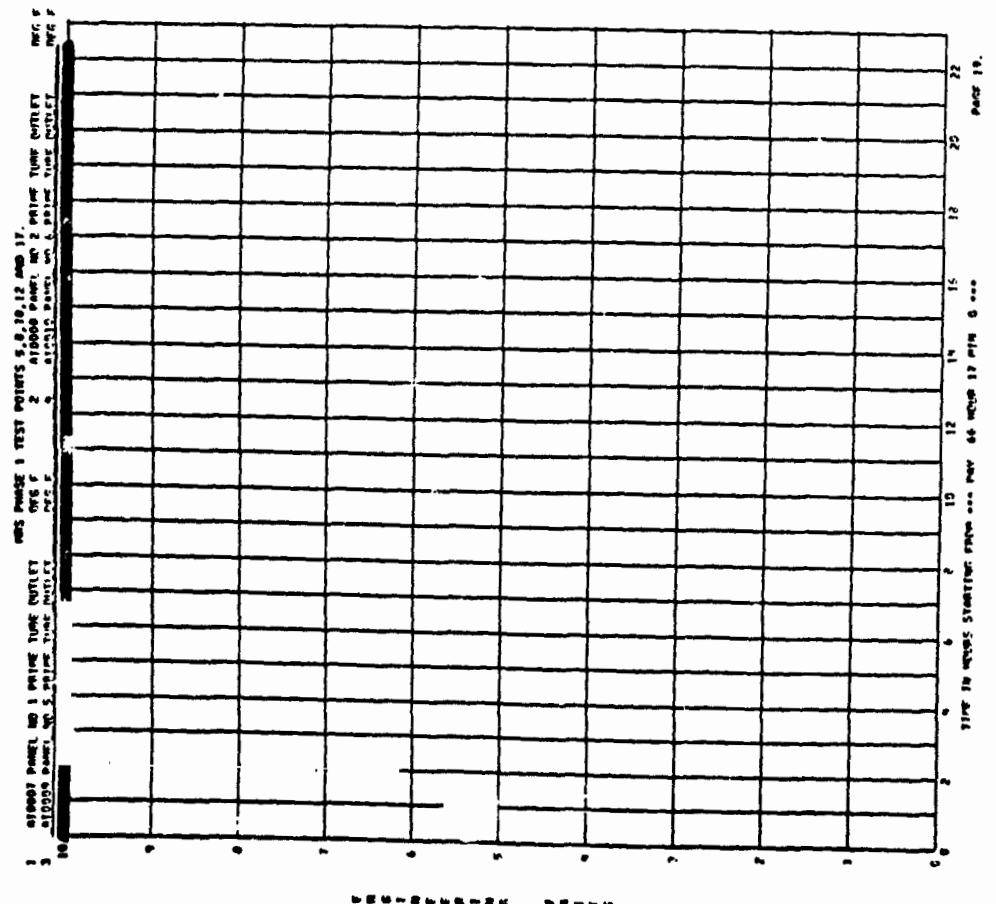
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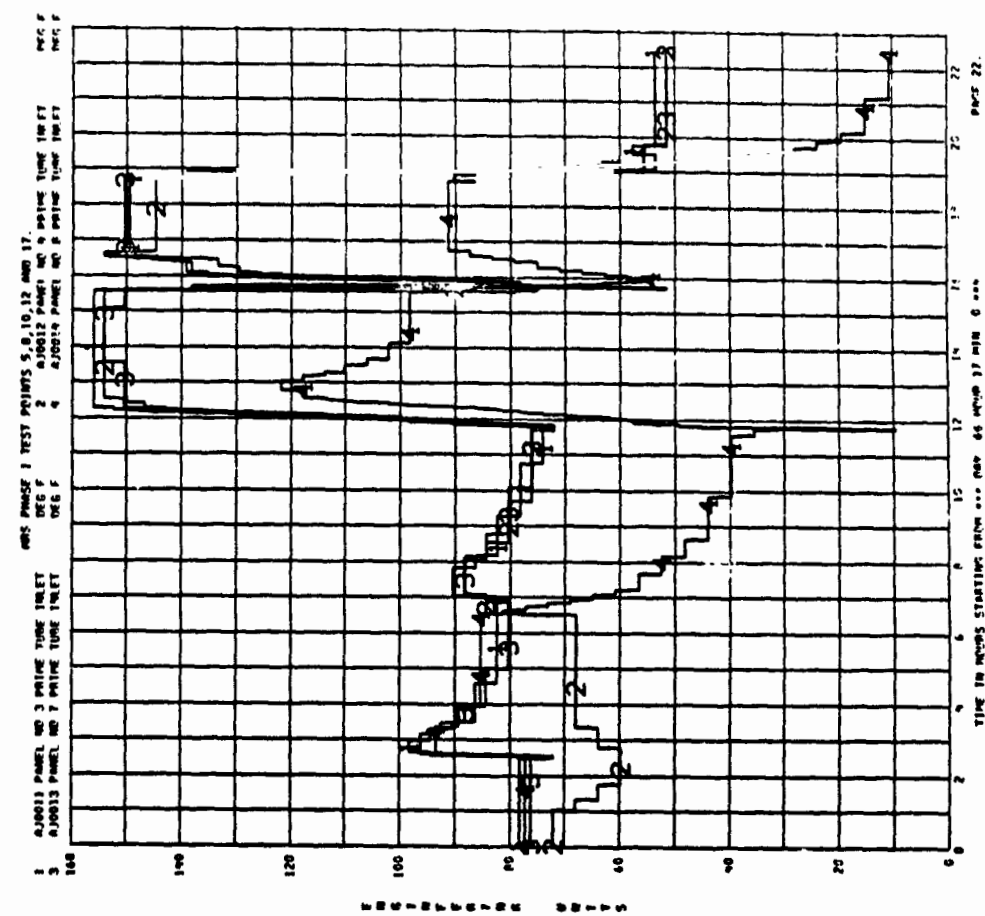
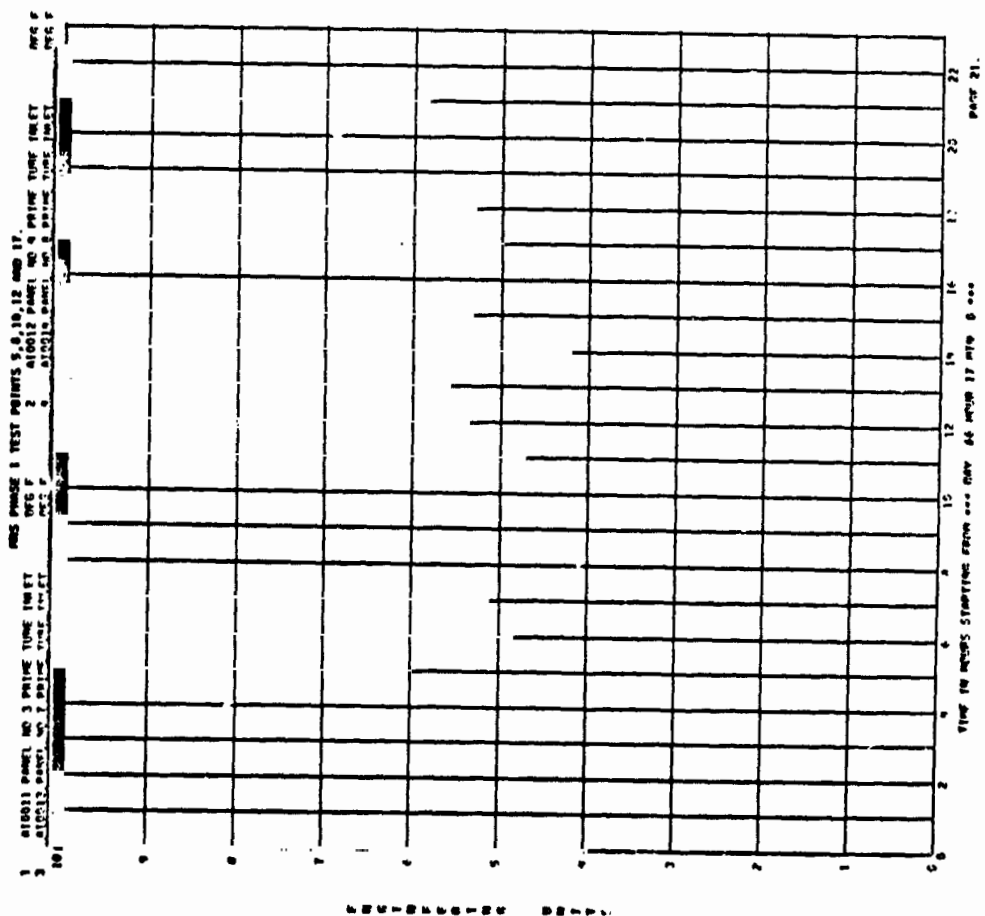
1 810010 PRIME TUNES OUTLET MIX IN CM
 REG. F
 2 810036 NAME TUNES OUTLET MIX IN CM
 REG. F
 3 810039 WISED NAME AND PRIME
 REG. F



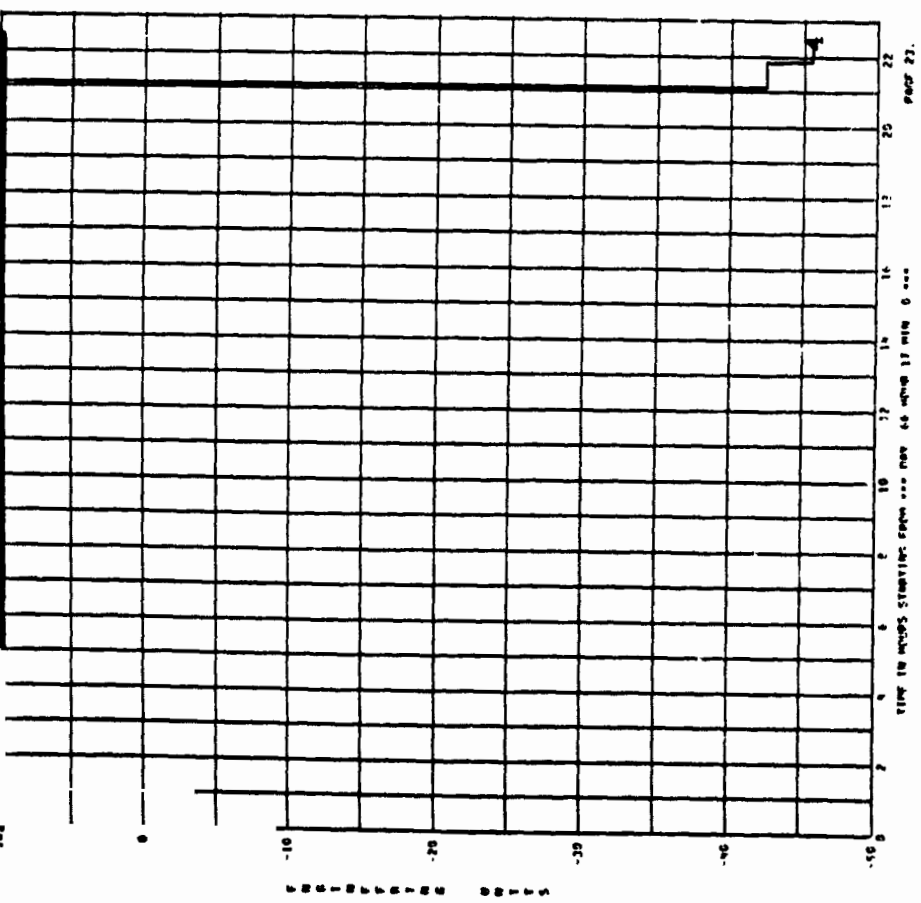
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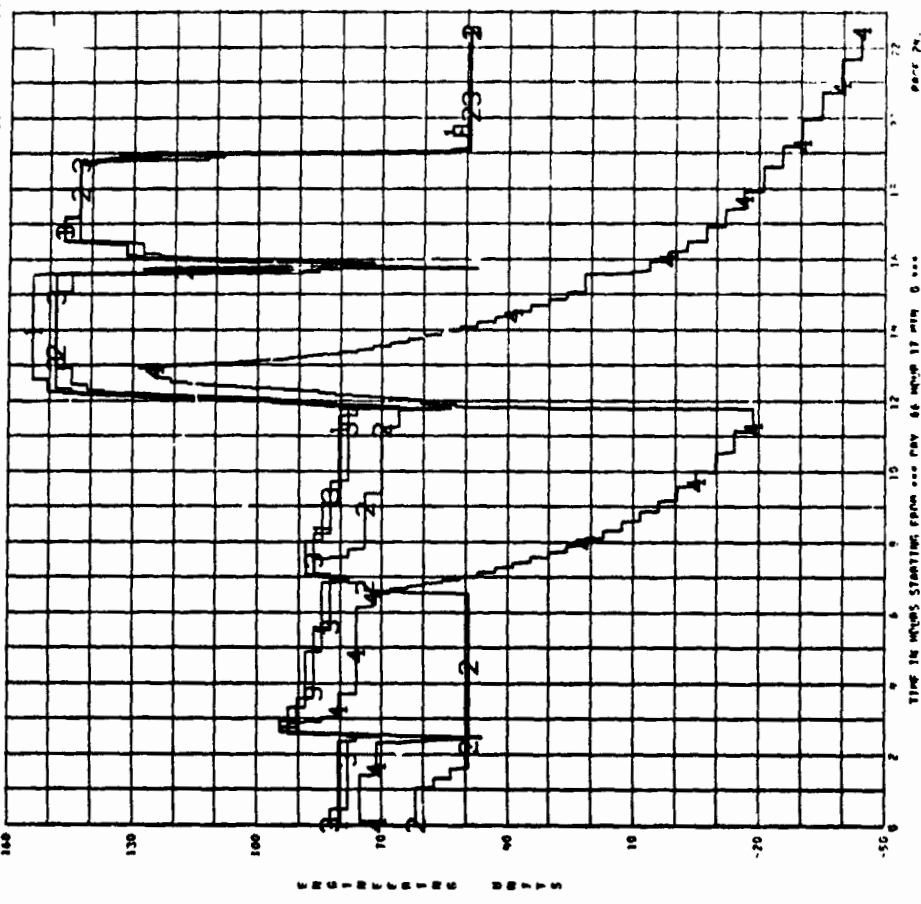


1 910015 PANEL NO 3 PRIME TIME OUTLET DEG F
 2 910016 PANEL NO 4 PRIME TIME OUTLET DEG F
 3 910017 PANEL NO 7 PRIME TIME OUTLET DEG F
 4 910018 PANEL NO 8 PRIME TIME OUTLET DEG F
 5 910019 PANEL NO 9 PRIME TIME OUTLET DEG F

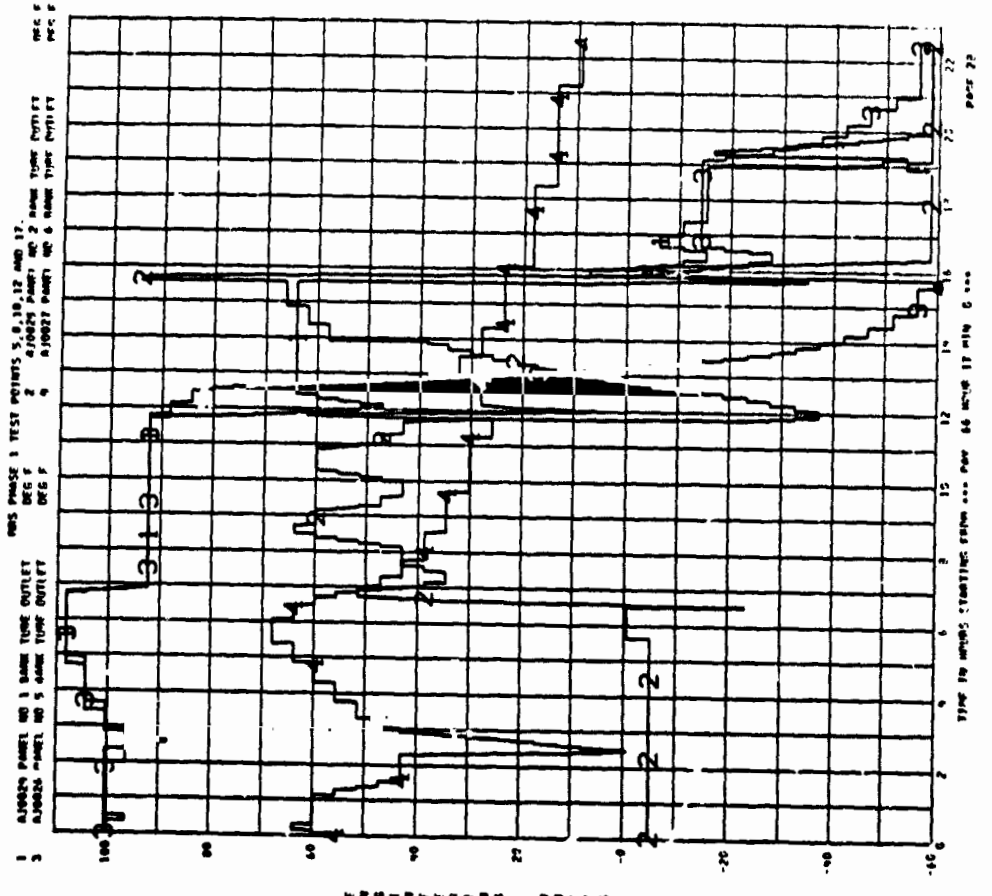
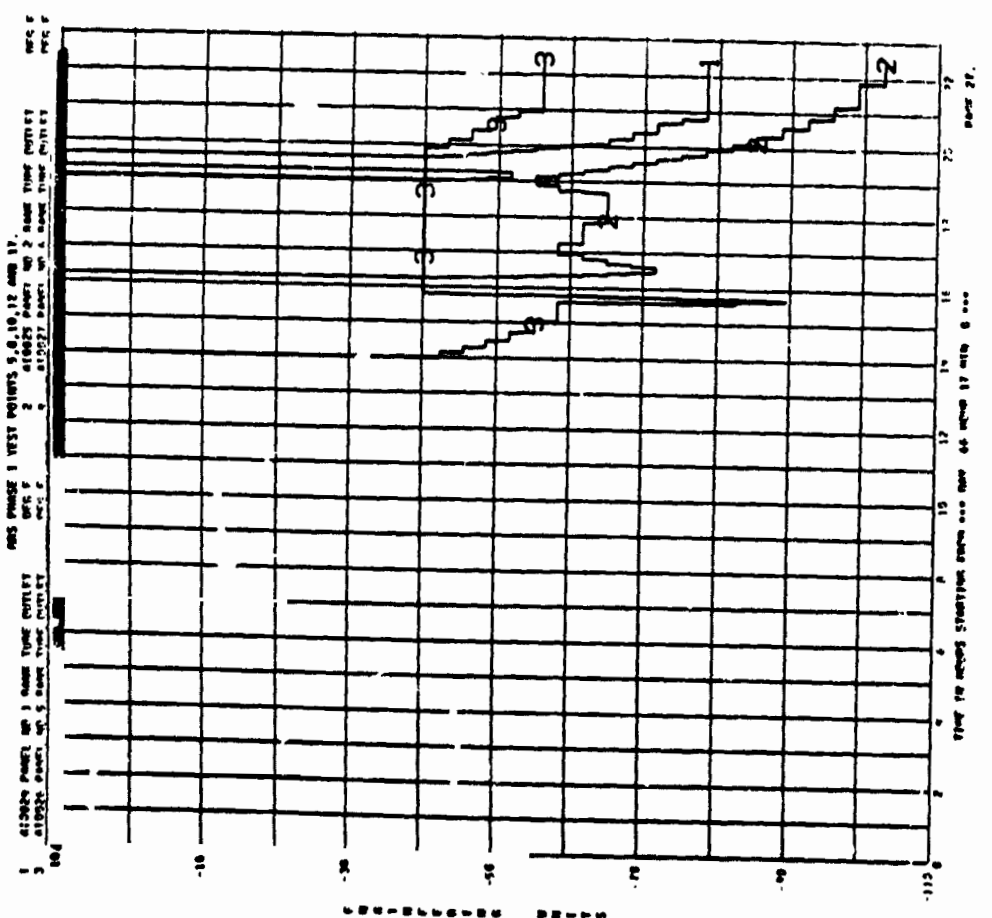


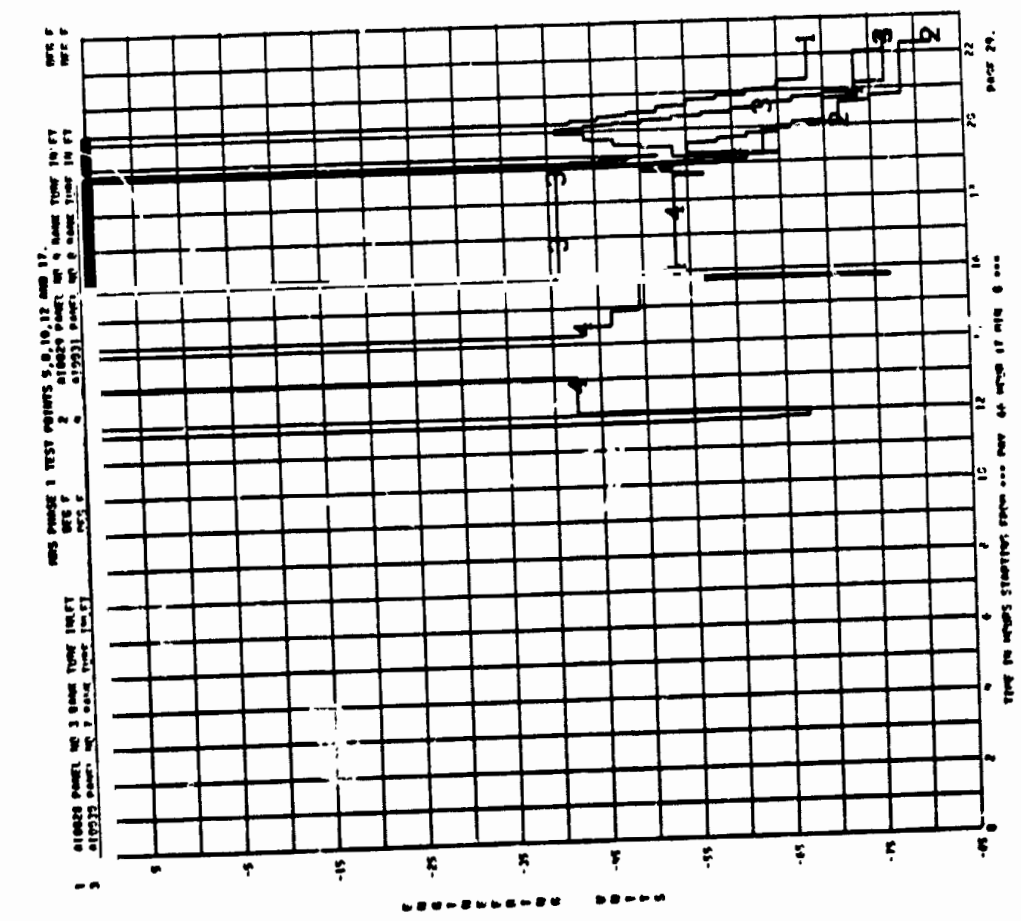
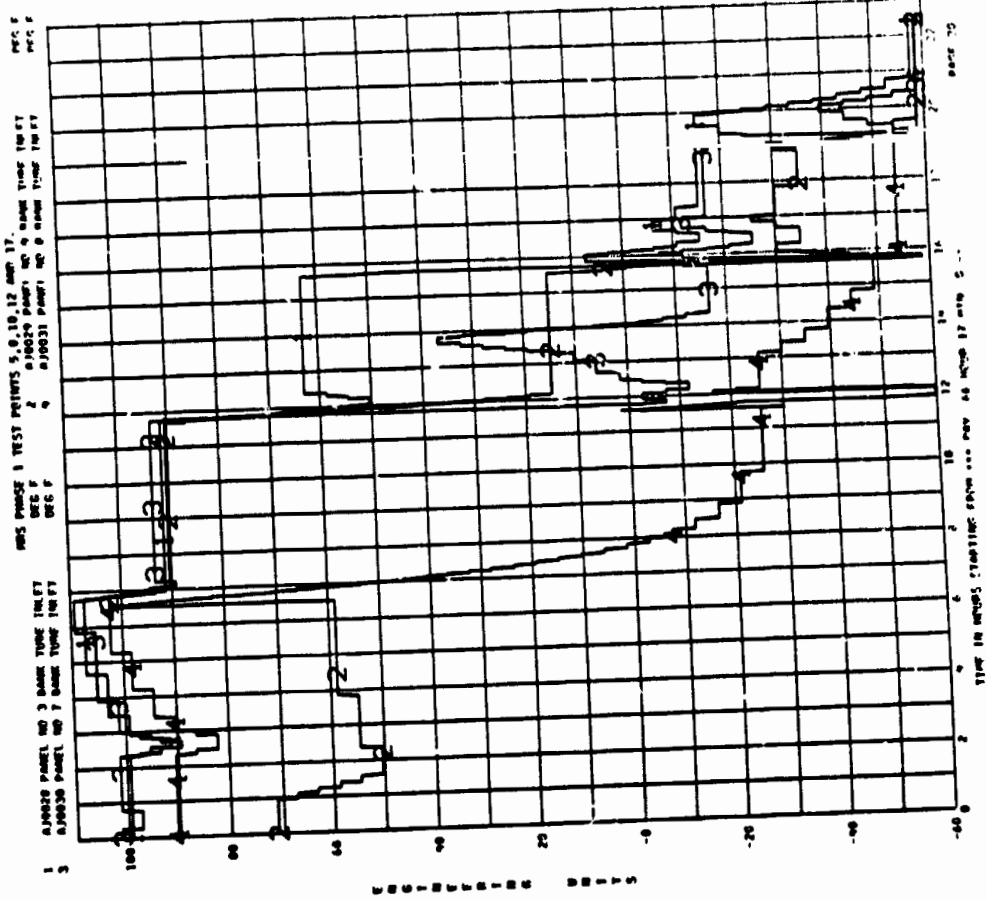
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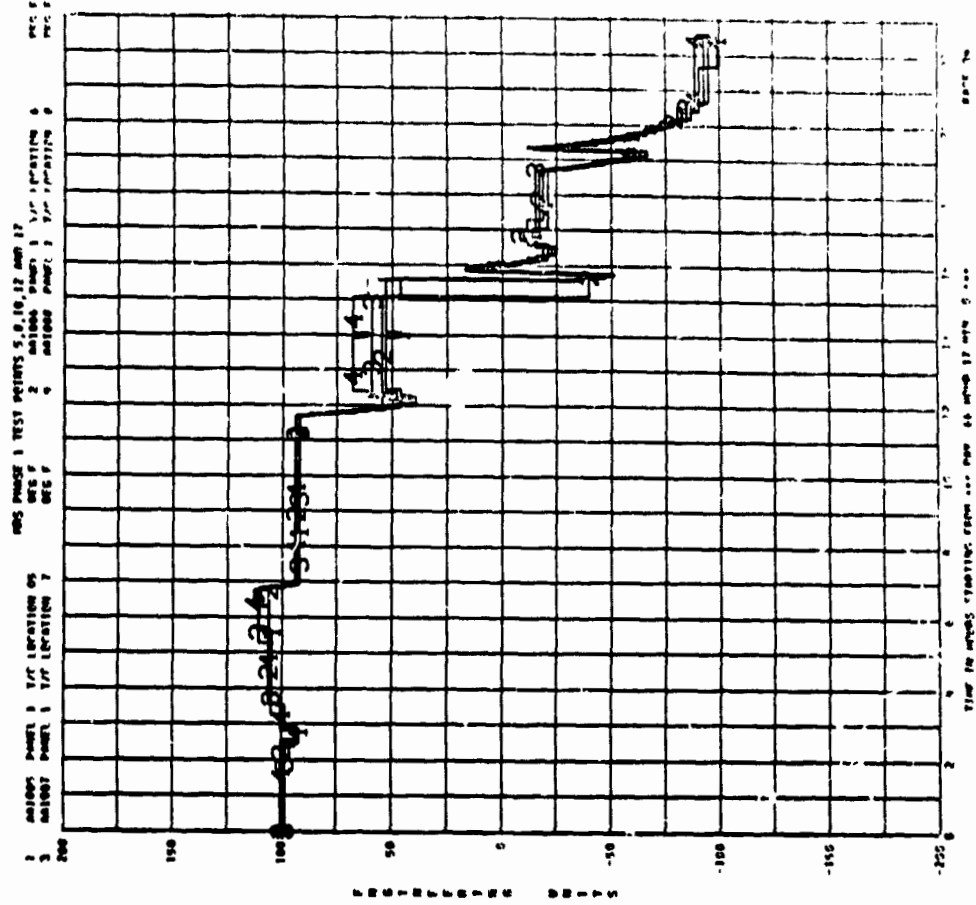
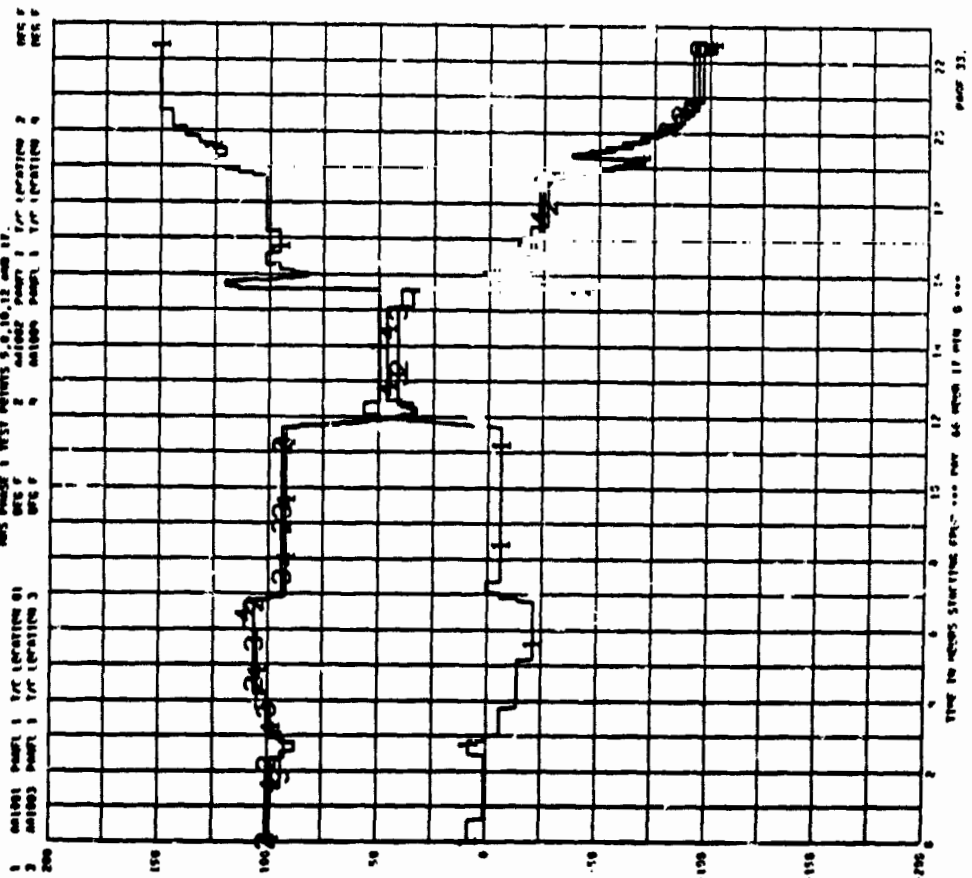
1 910015 PANEL NO 3 PRIME TIME OUTLET DEG F
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 4 910018 PANEL NO 8 PRIME TIME OUTLET DEG F
 5 910019 PANEL NO 9 PRIME TIME OUTLET DEG F

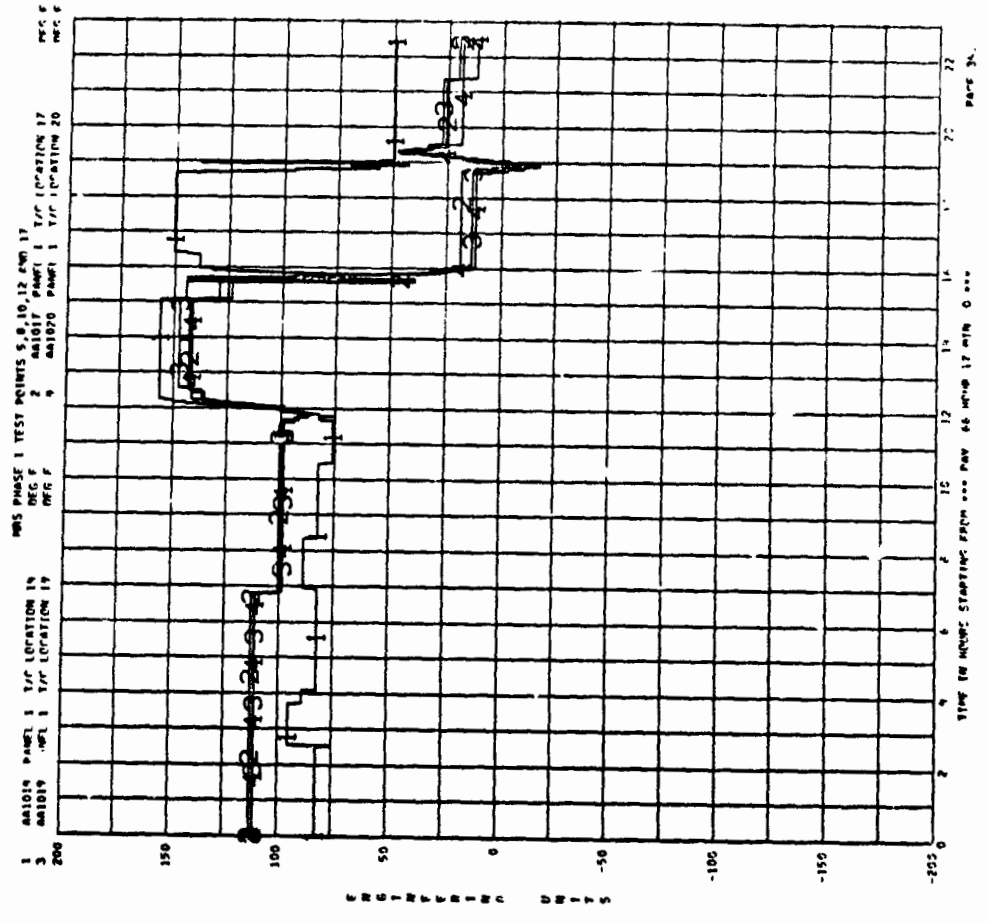
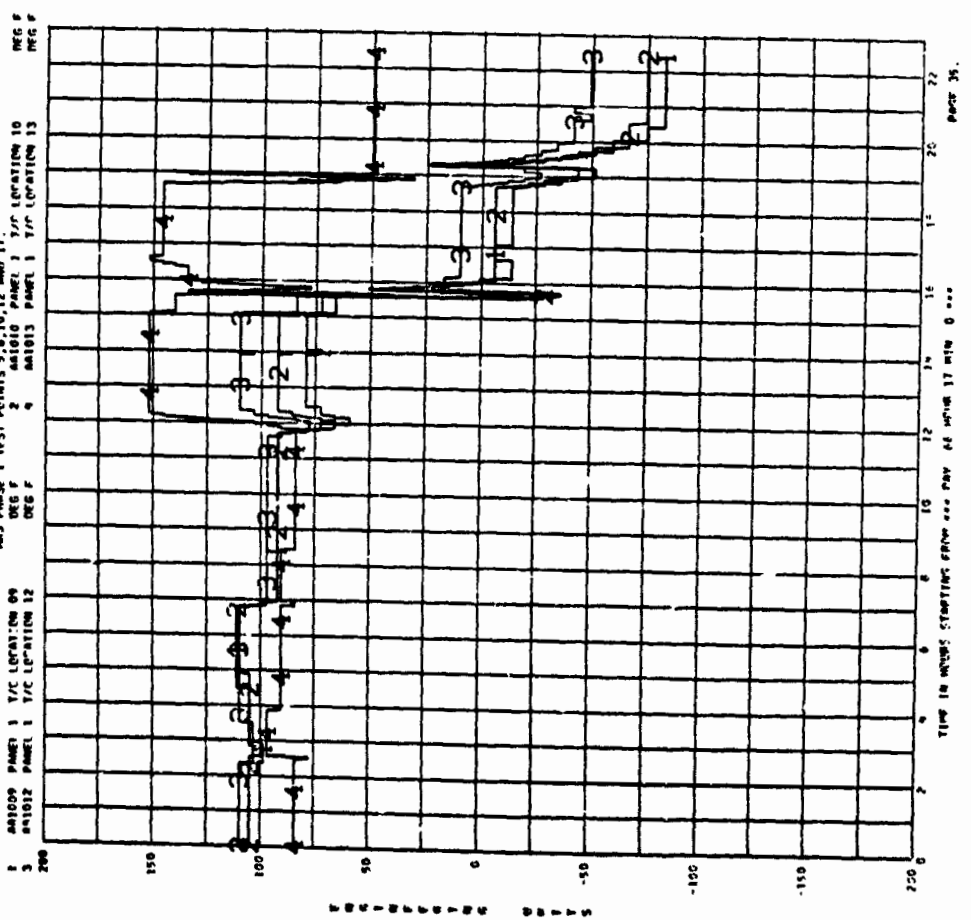


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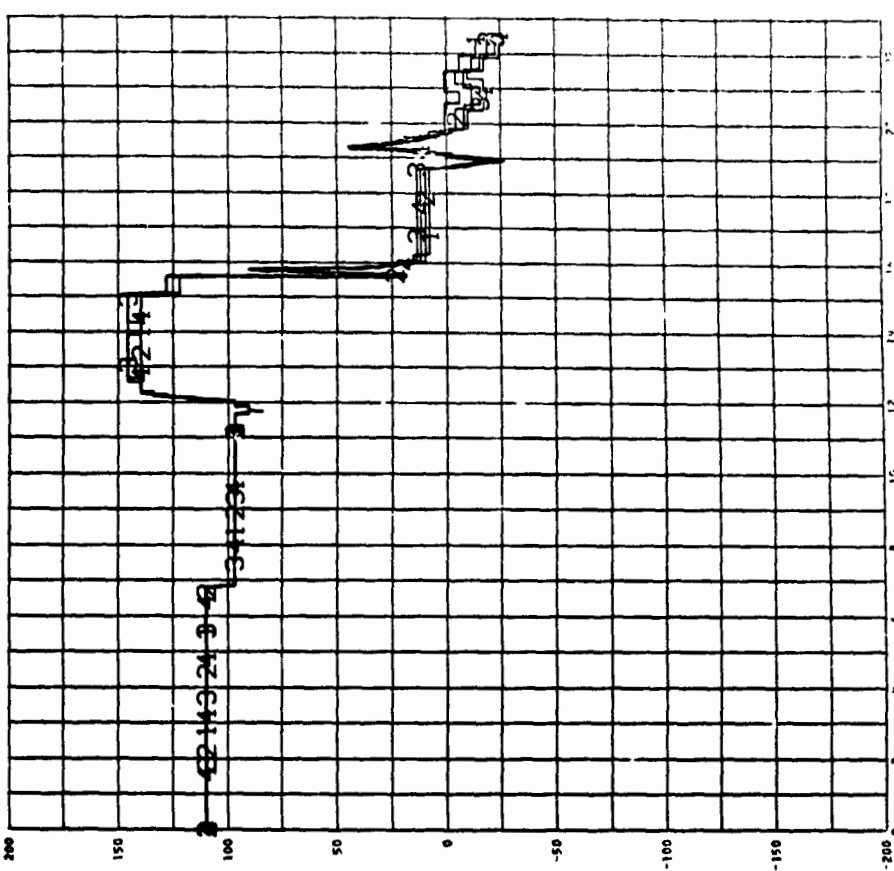




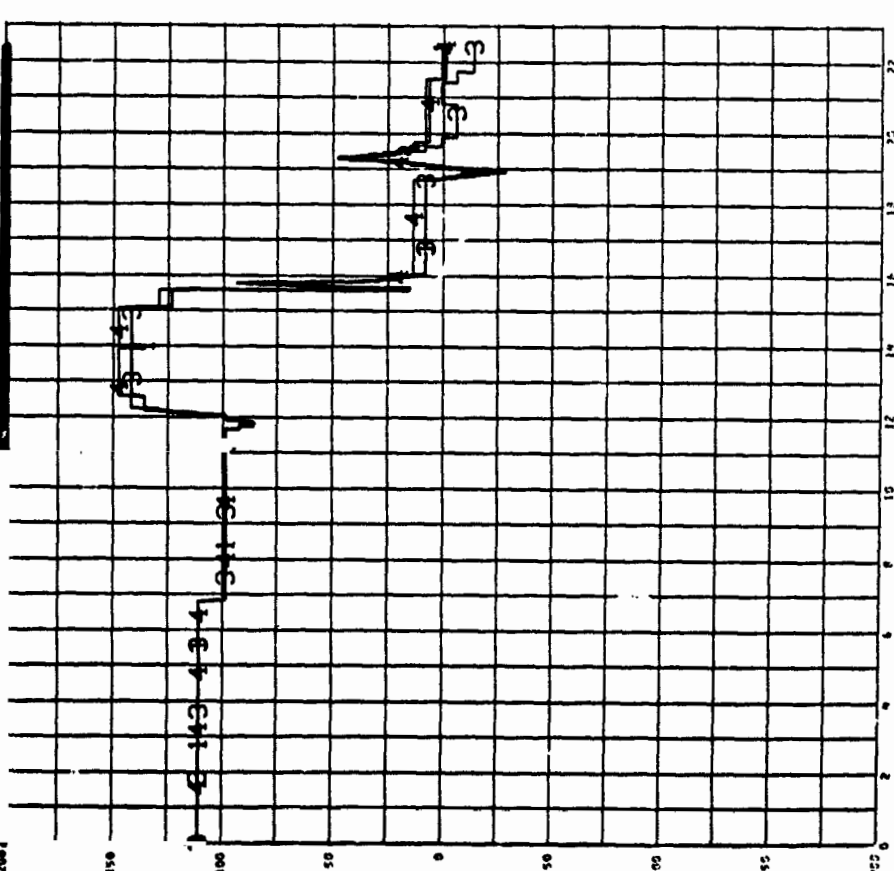


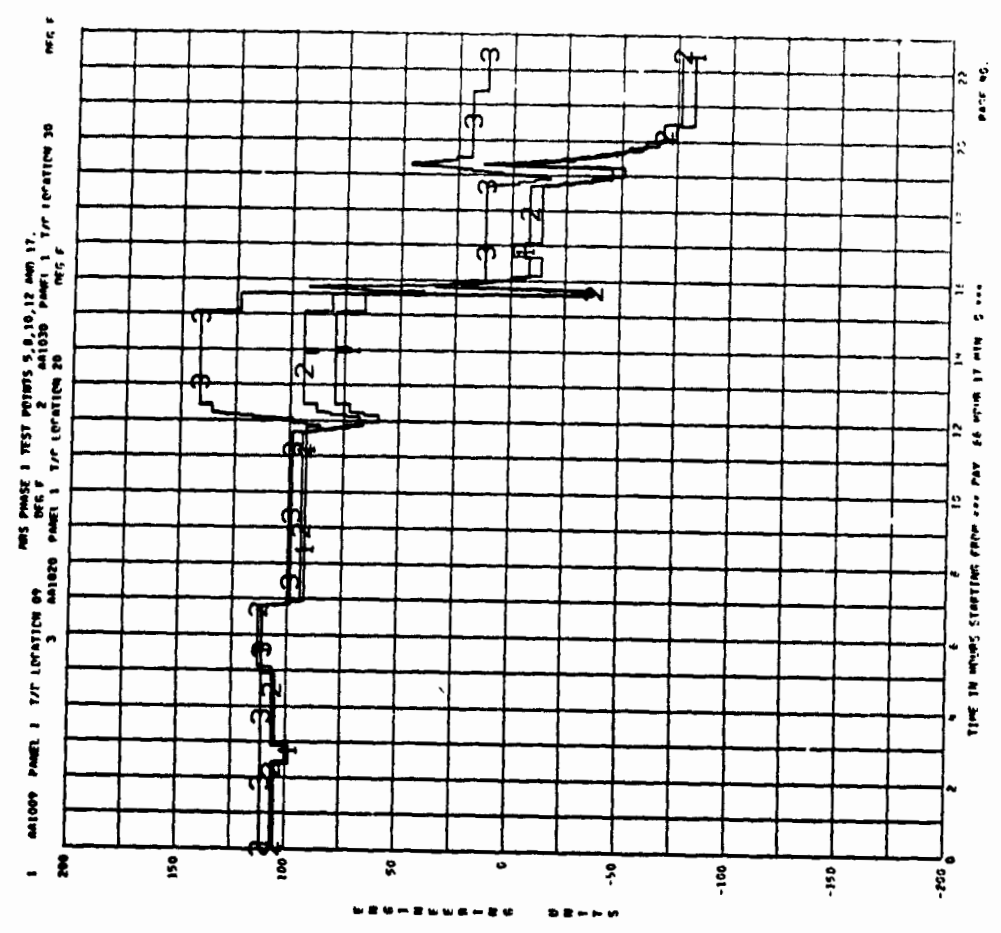
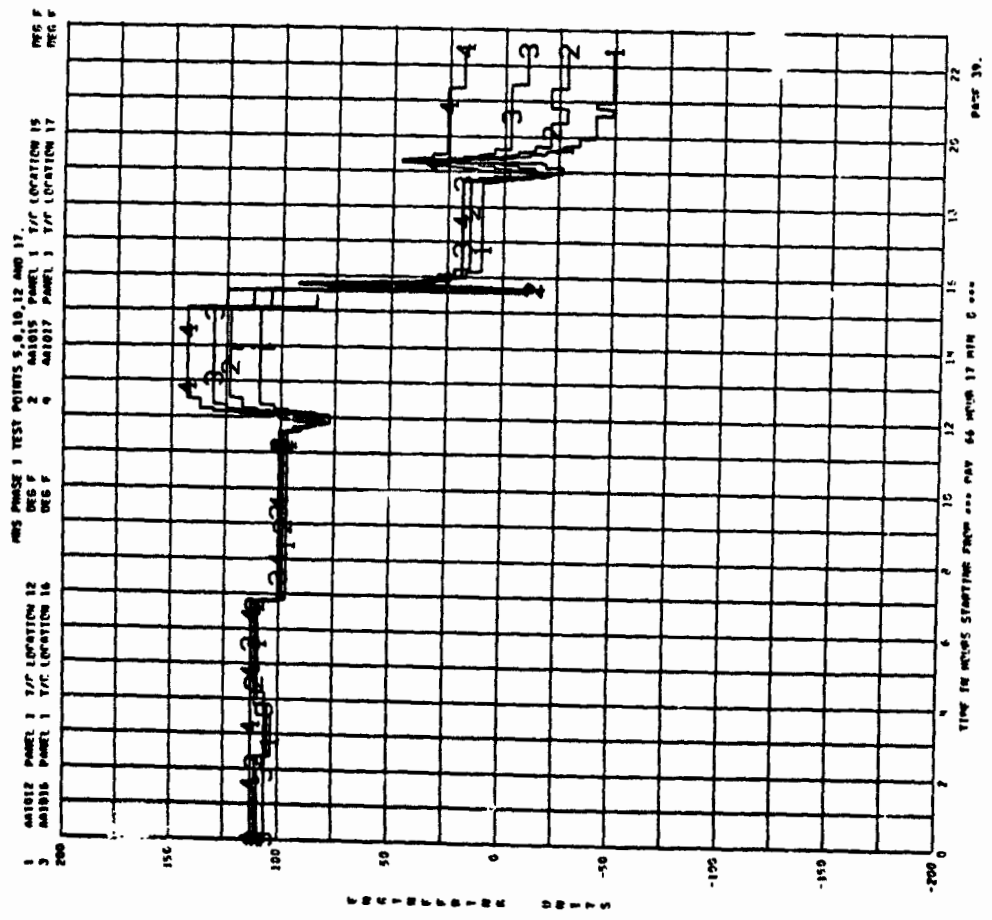


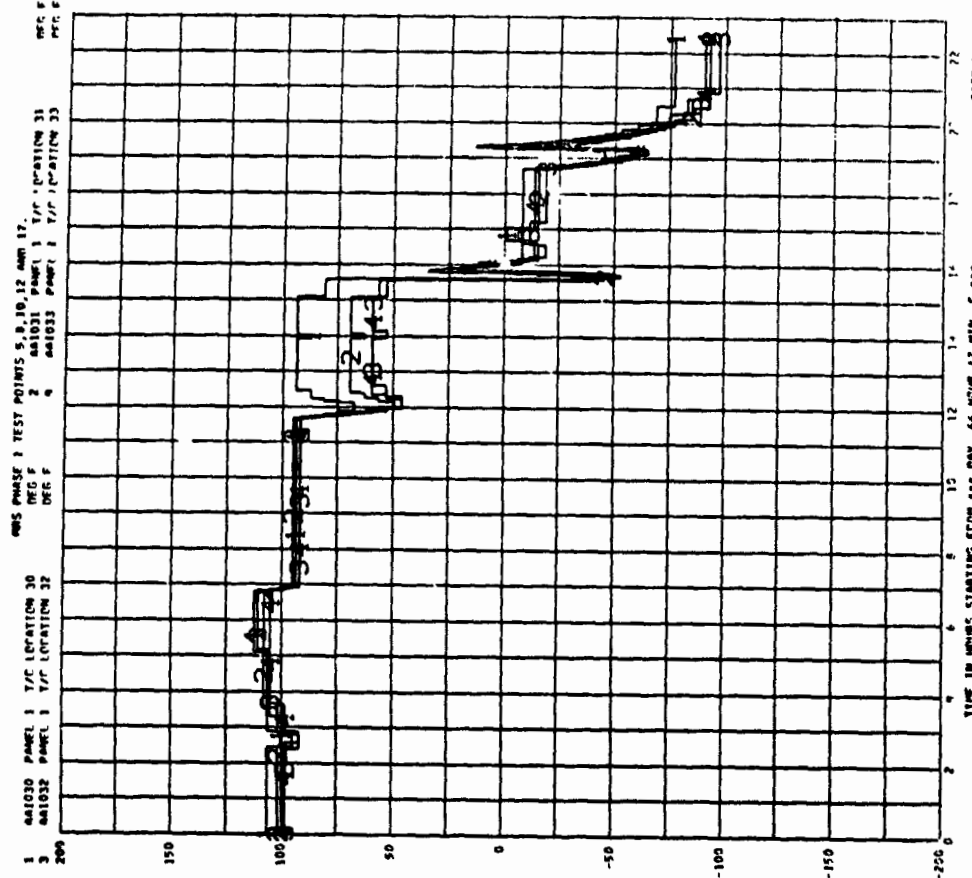
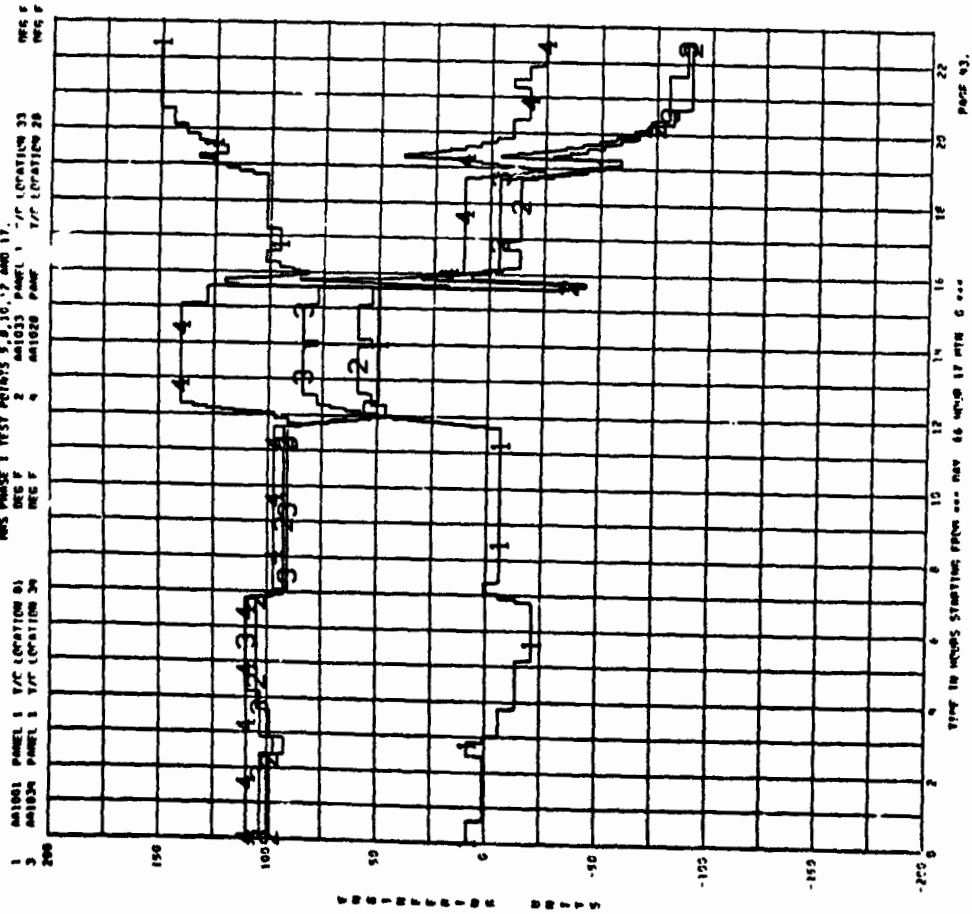
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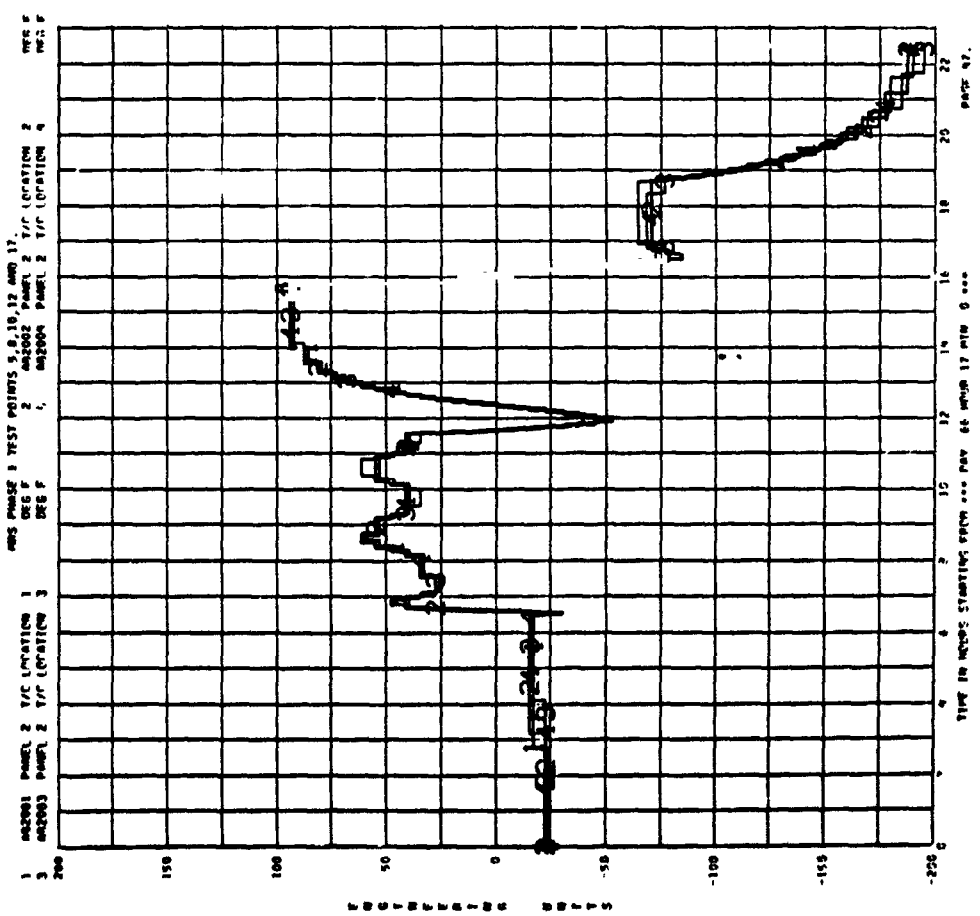
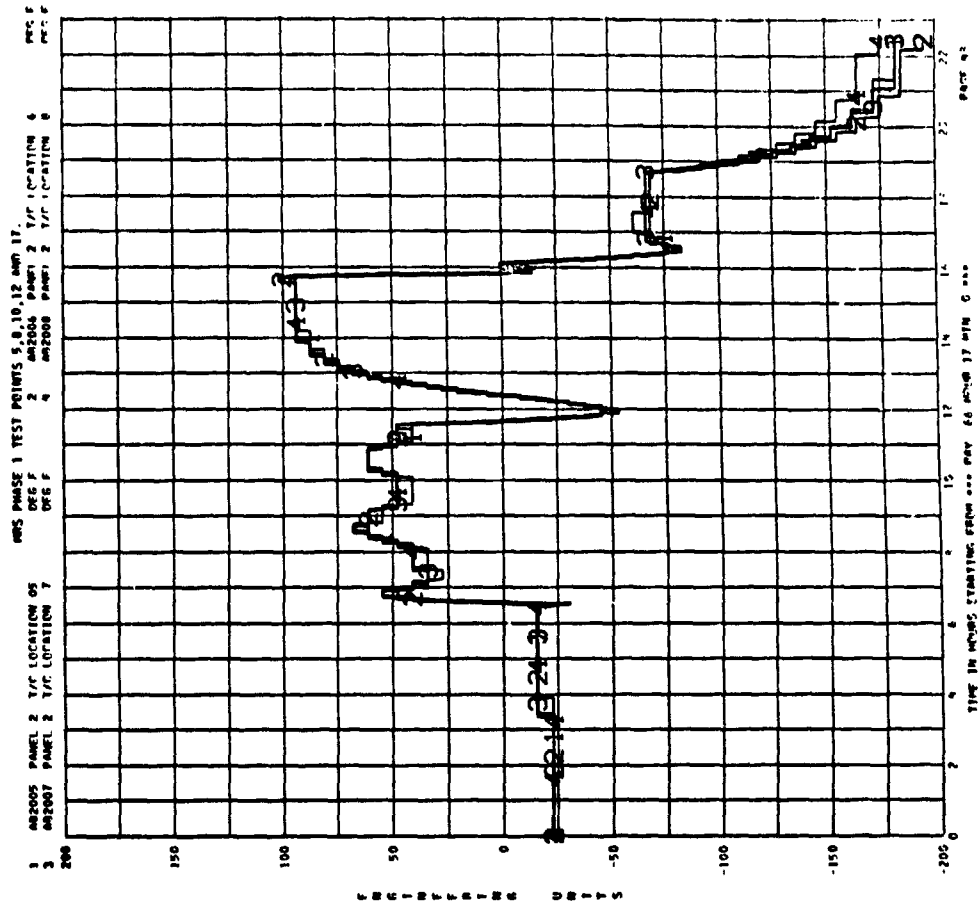


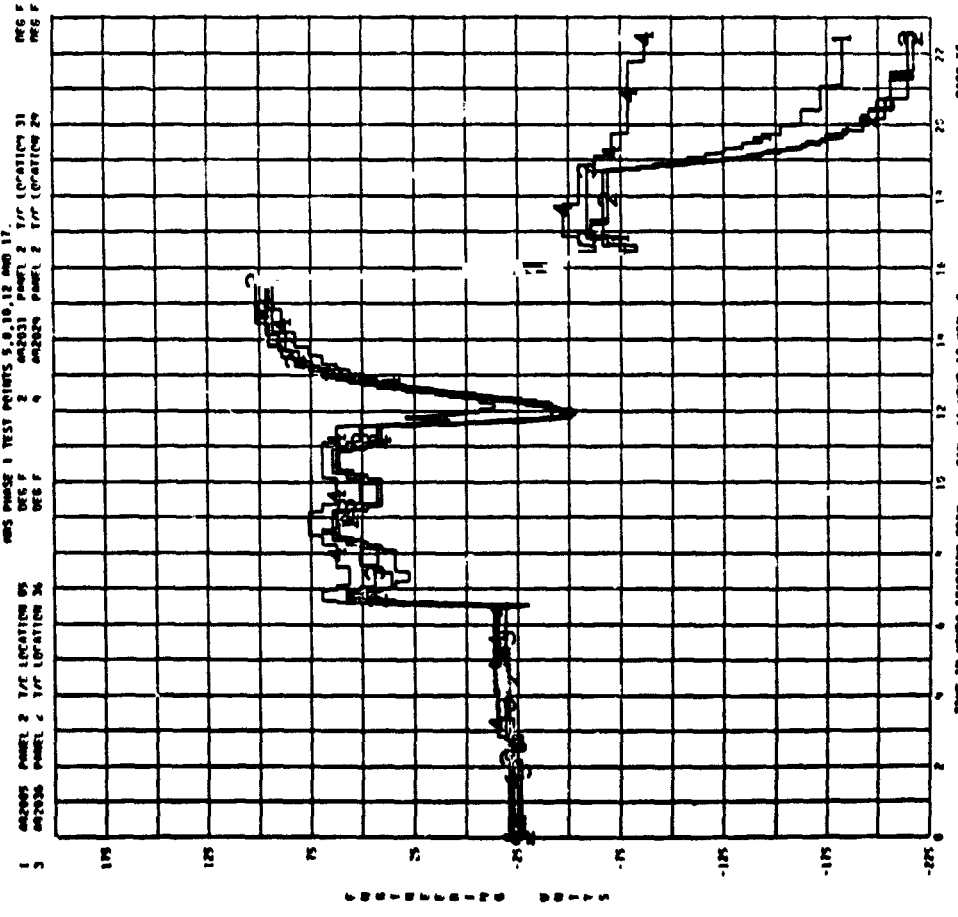
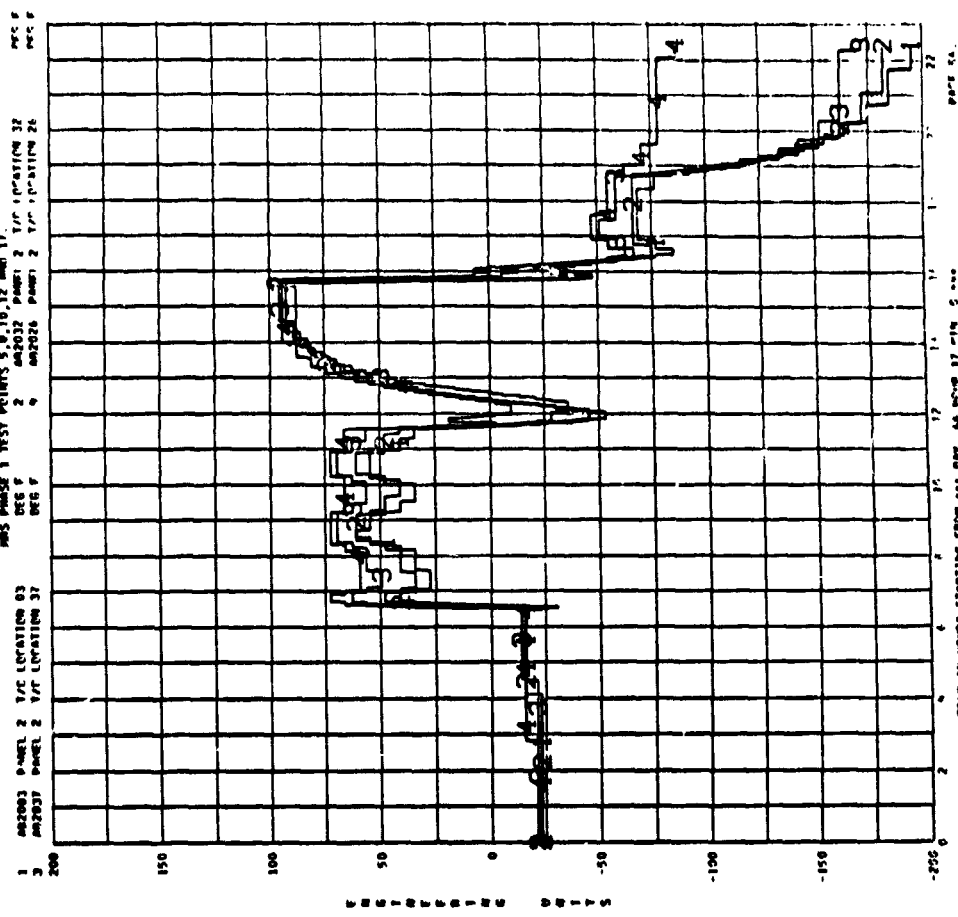
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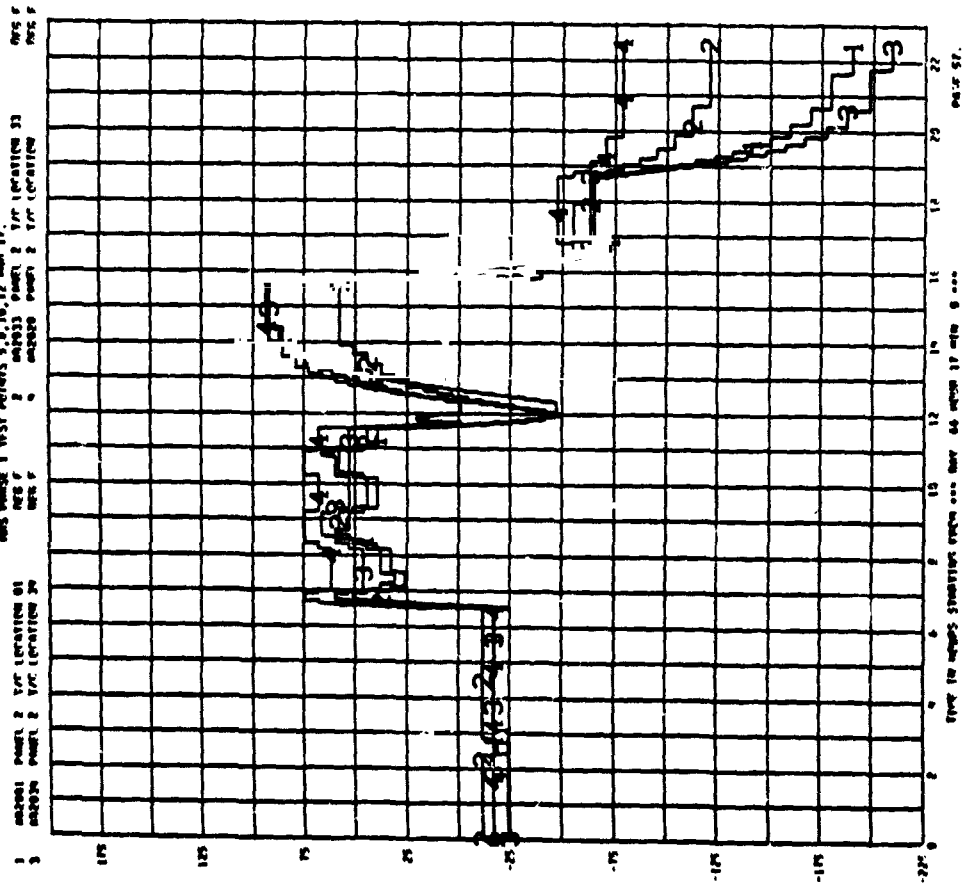
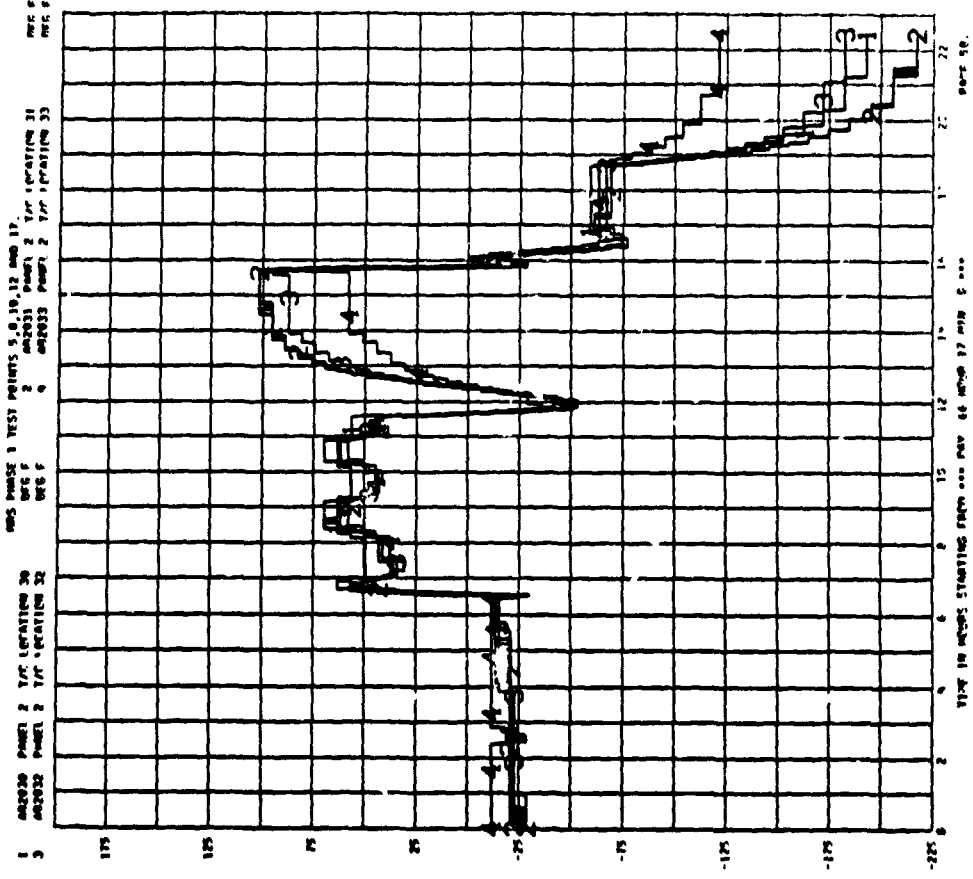


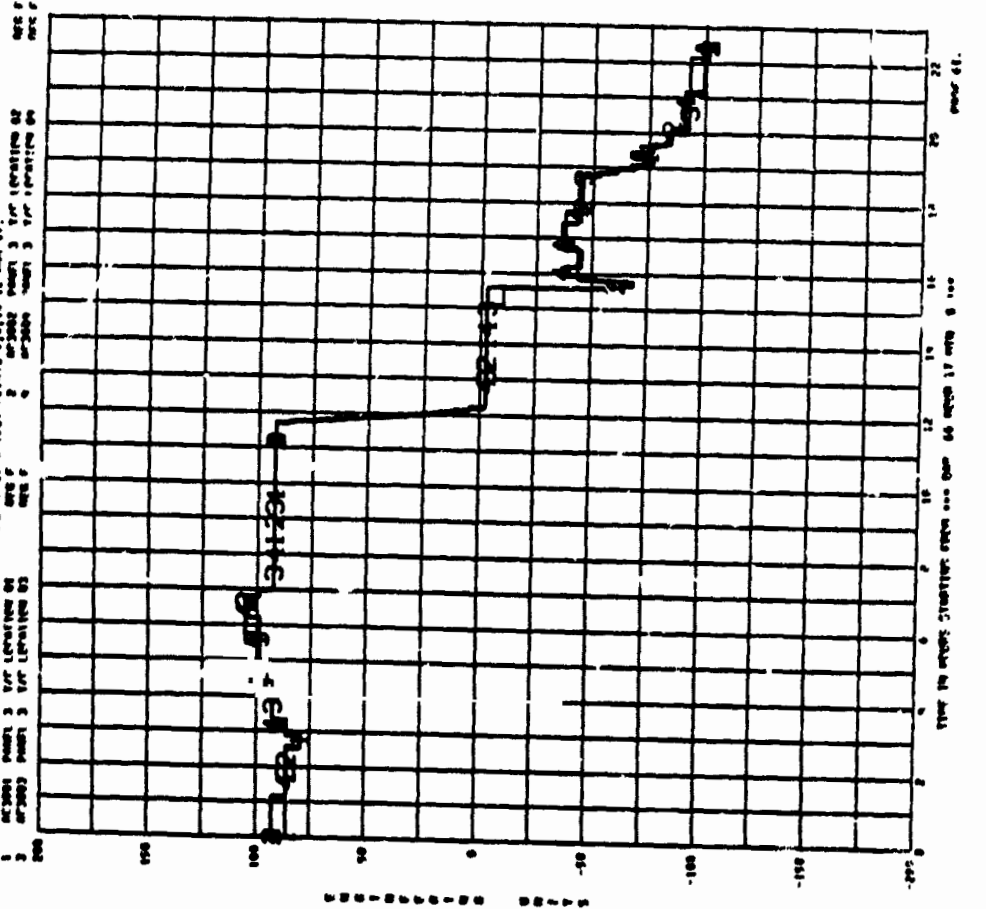
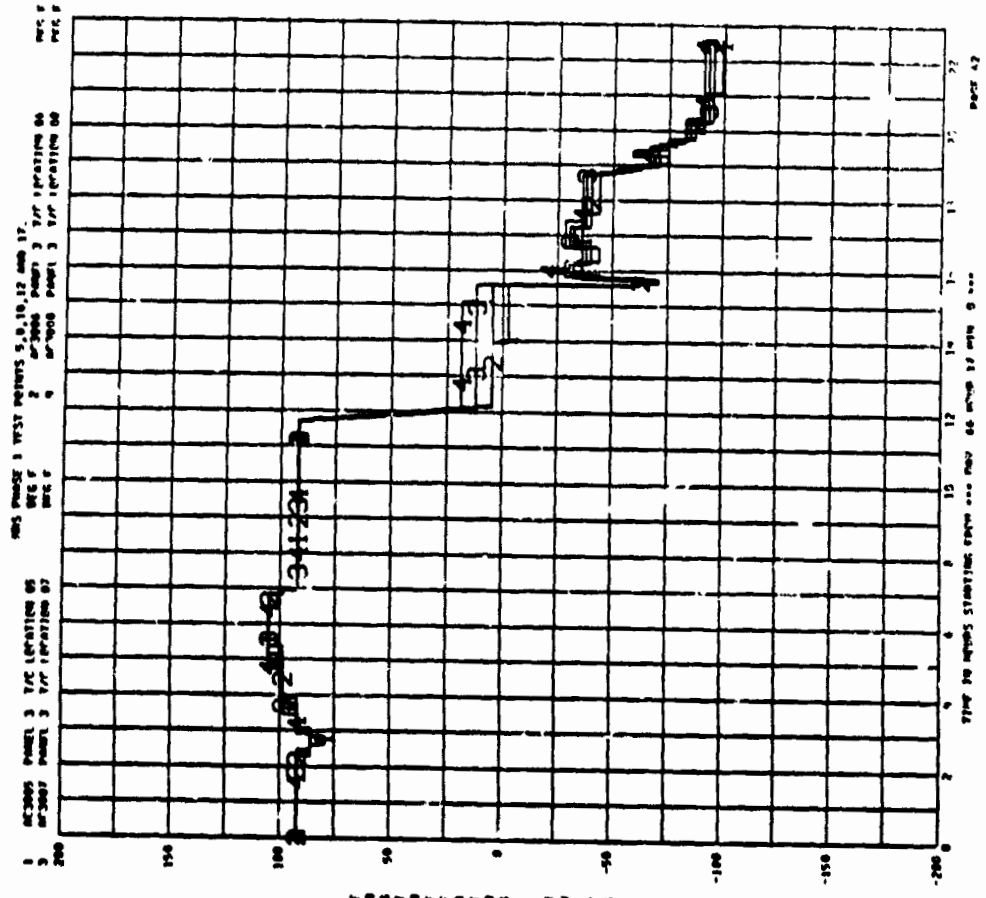


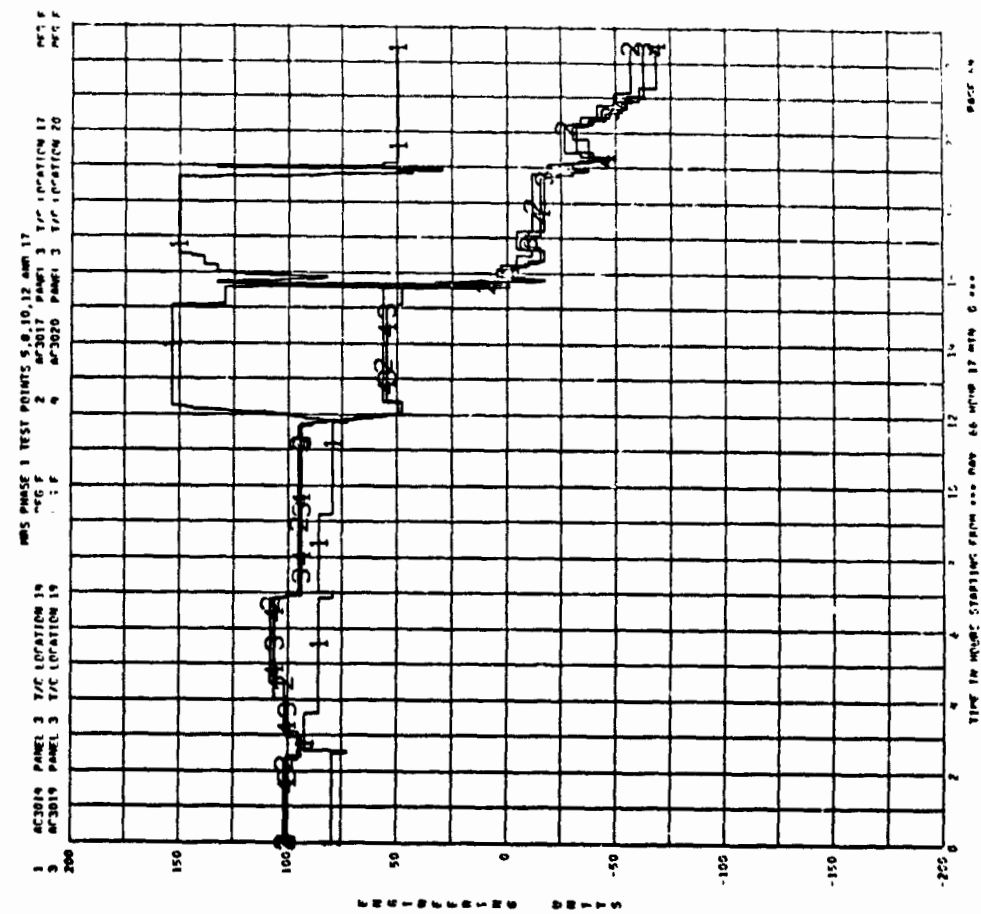
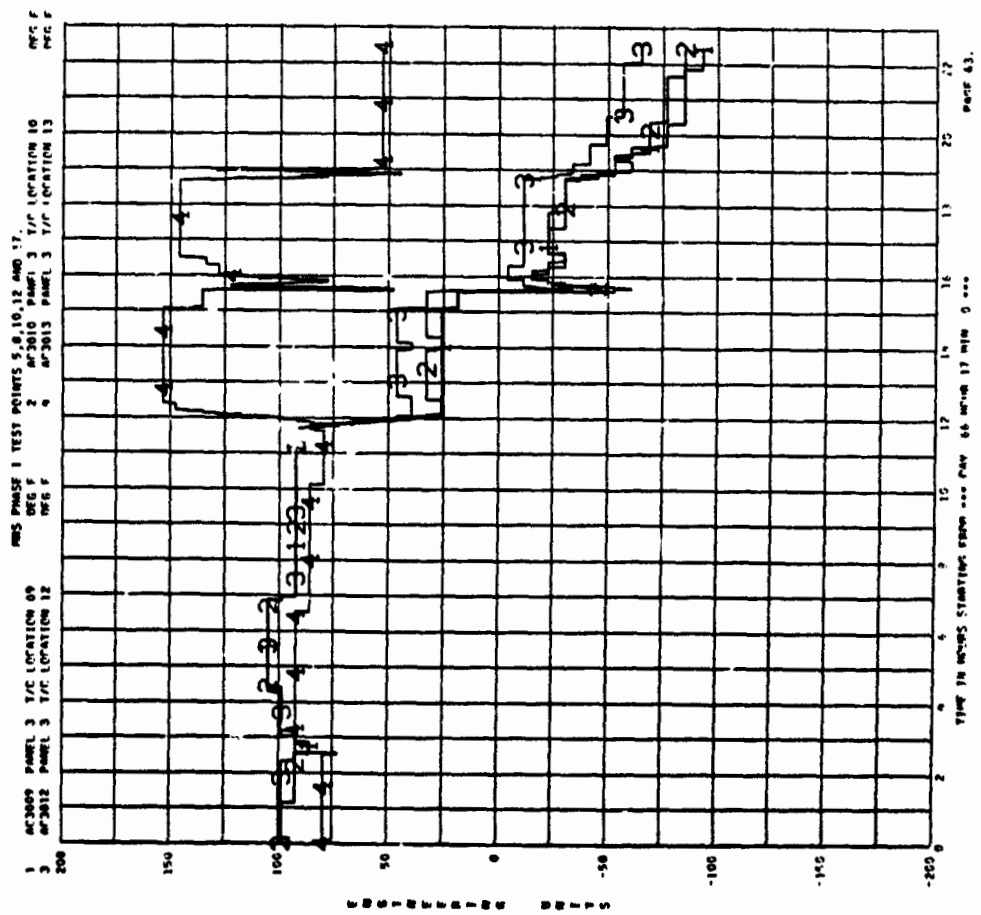




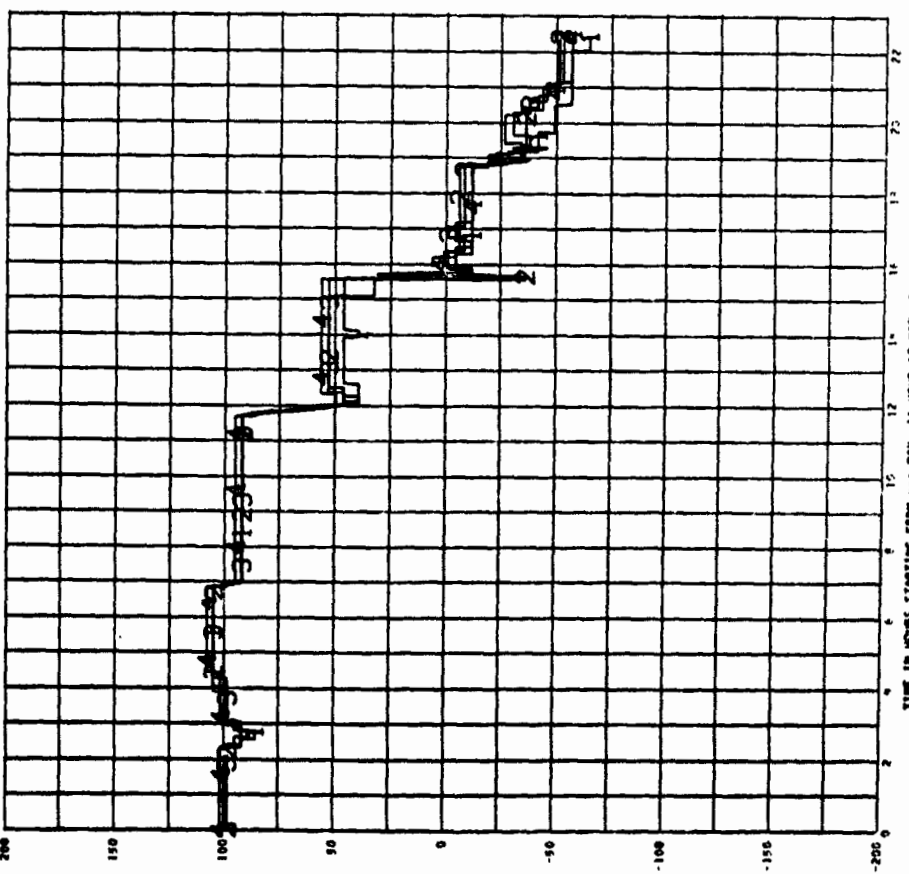




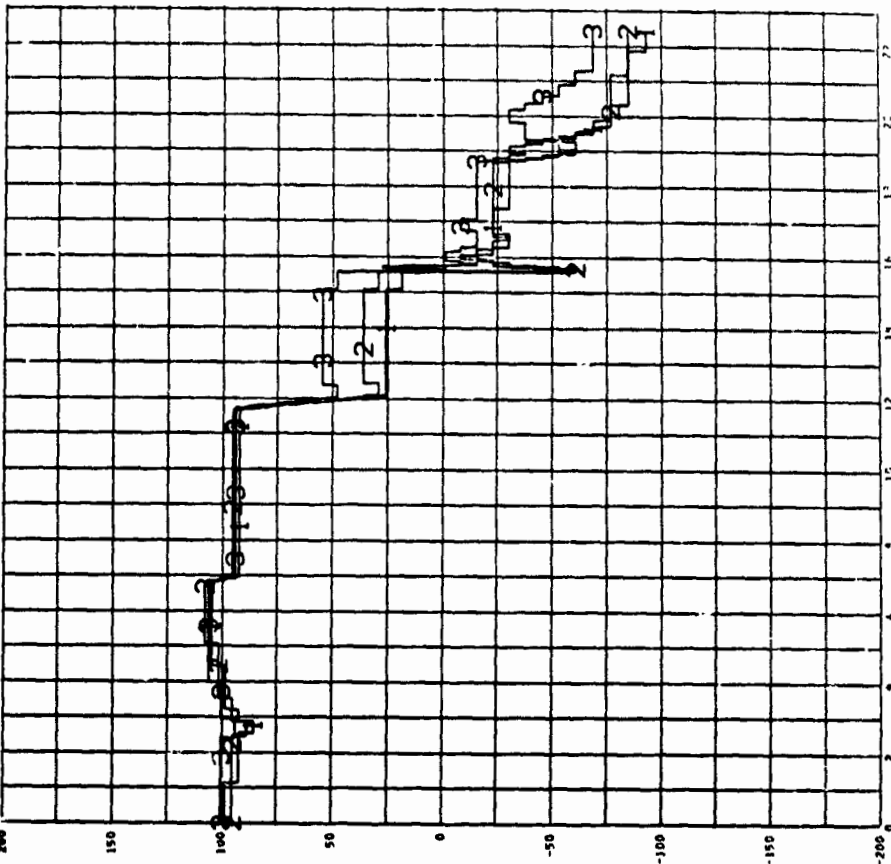


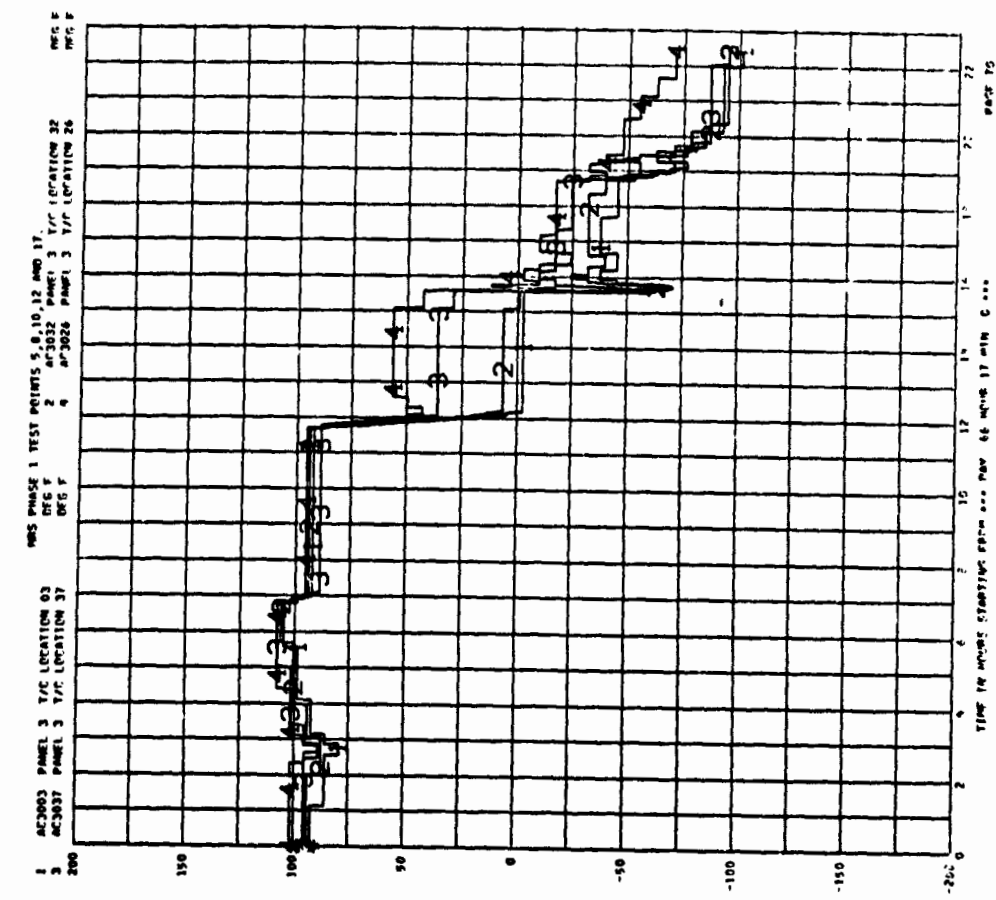
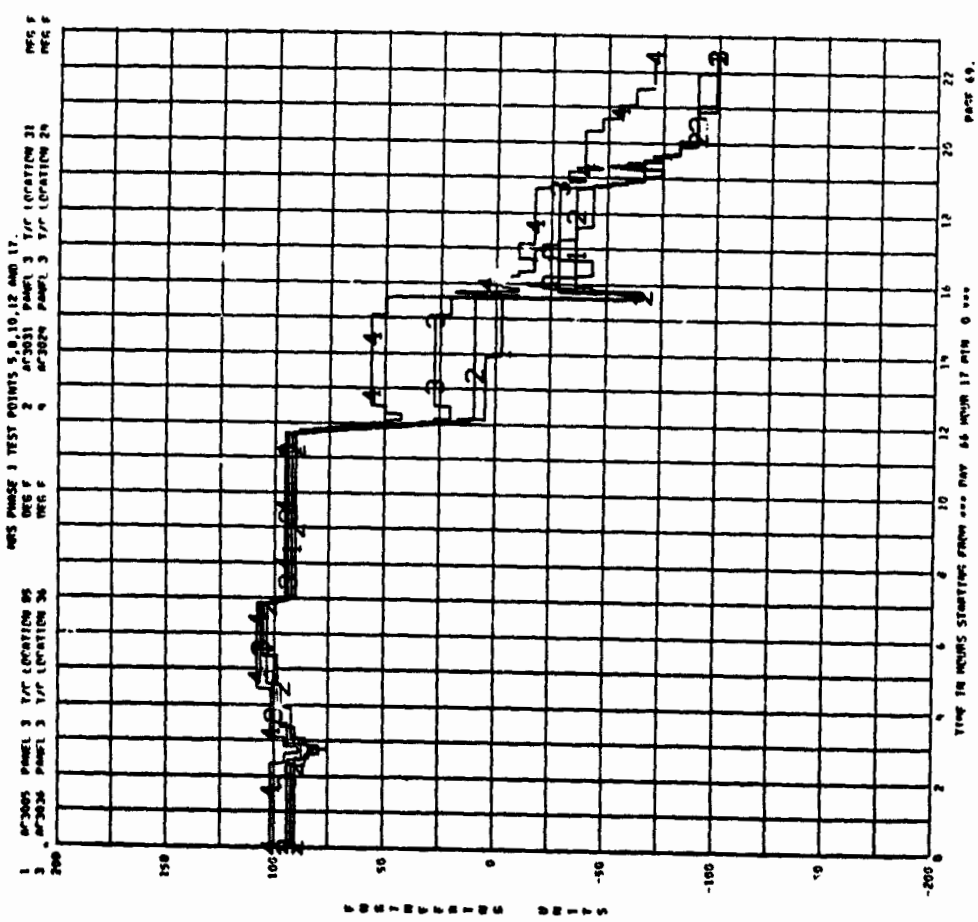


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 3 AC3016 PANEL 3 T/C LOCATION 16
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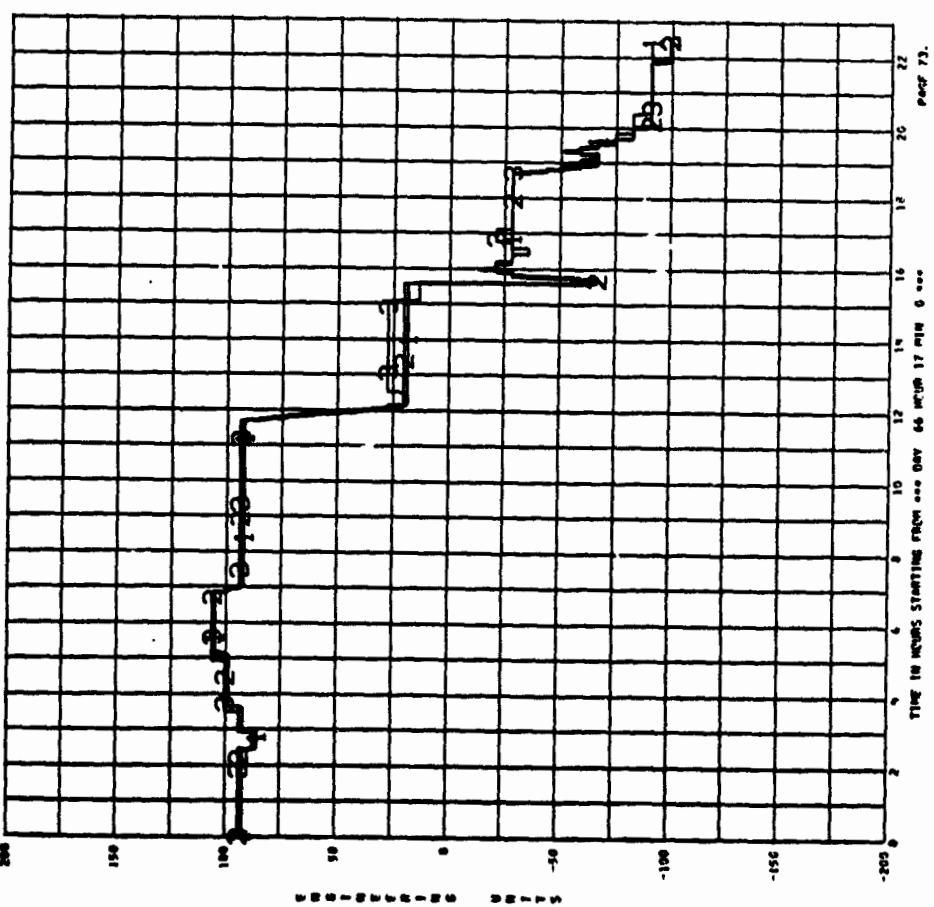


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 4 AC3012 PANEL 3 T/C LOCATION 12
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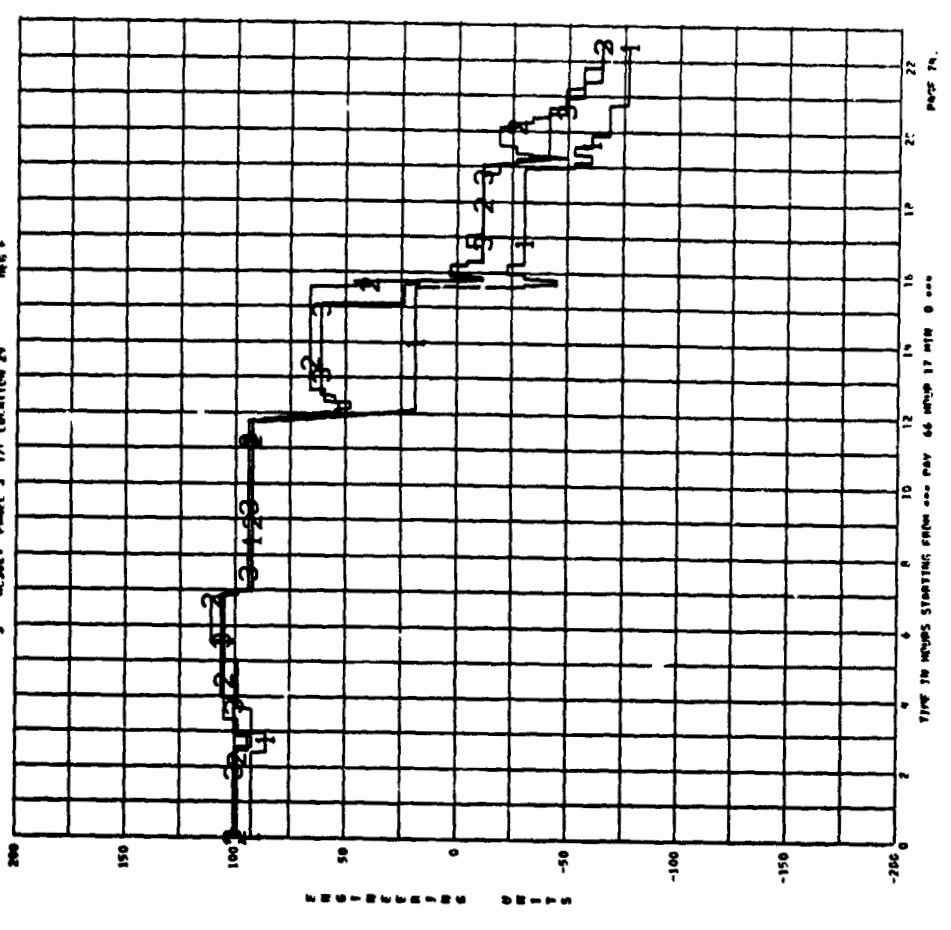


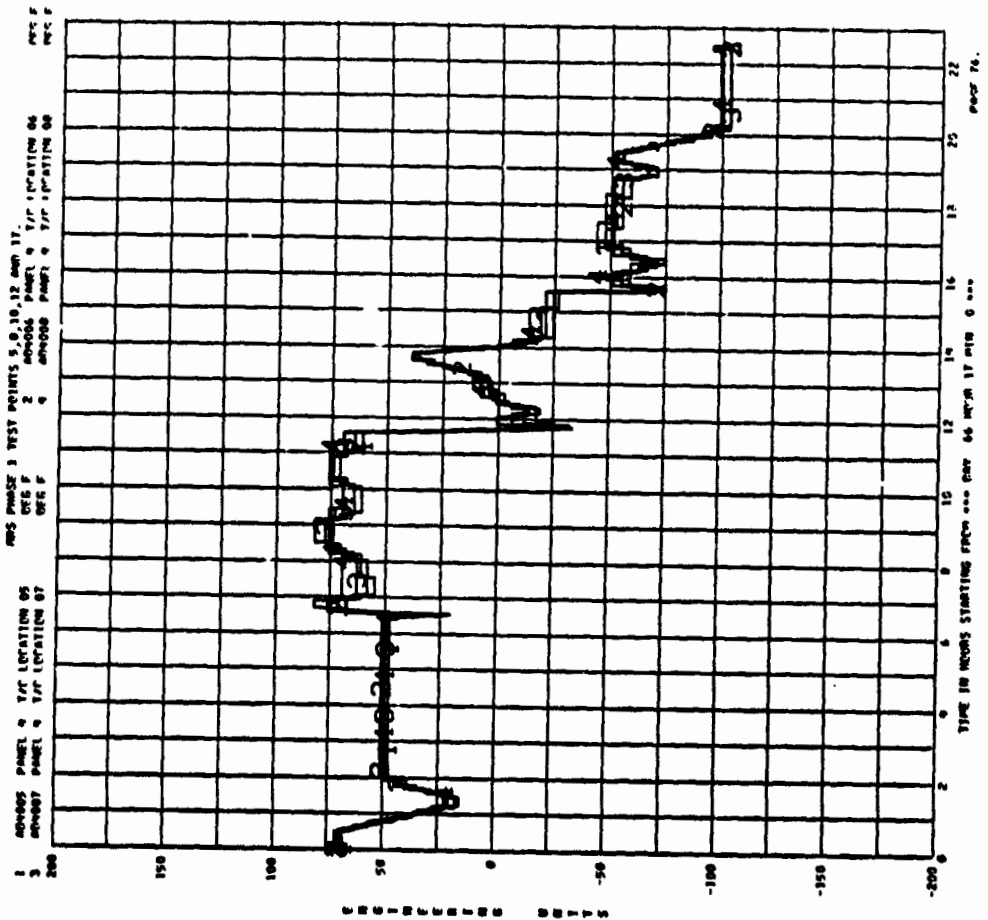
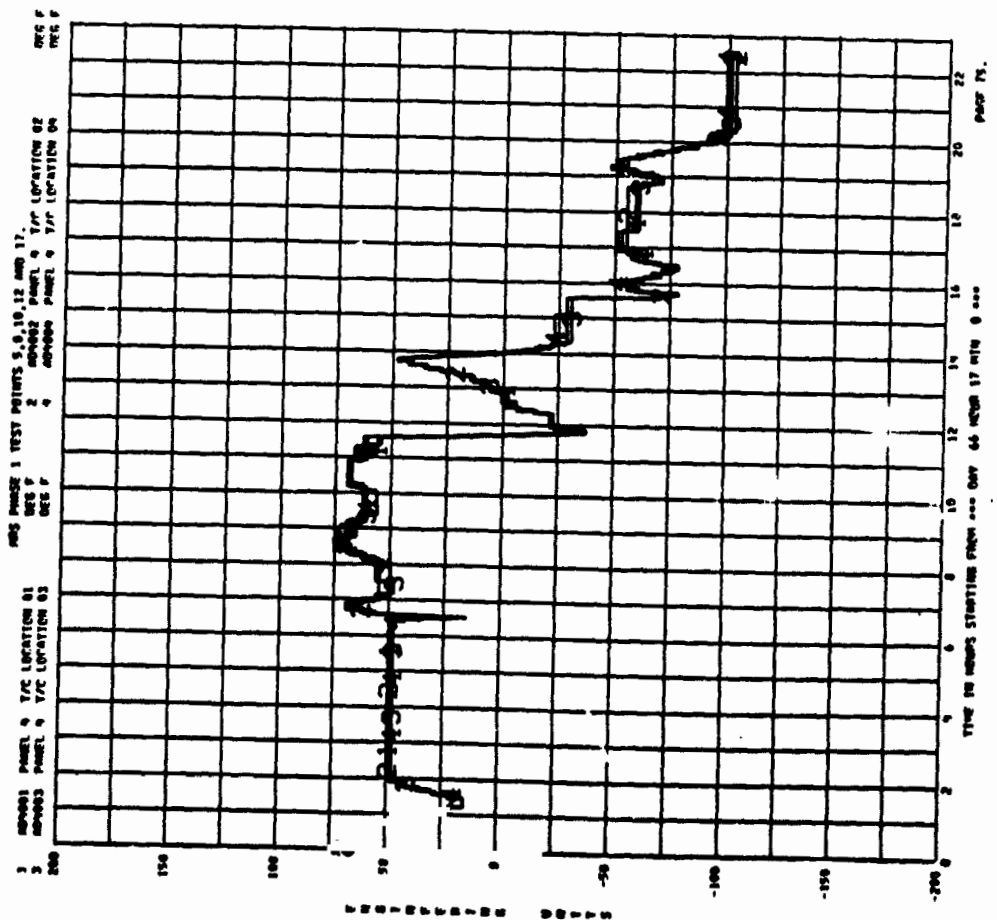


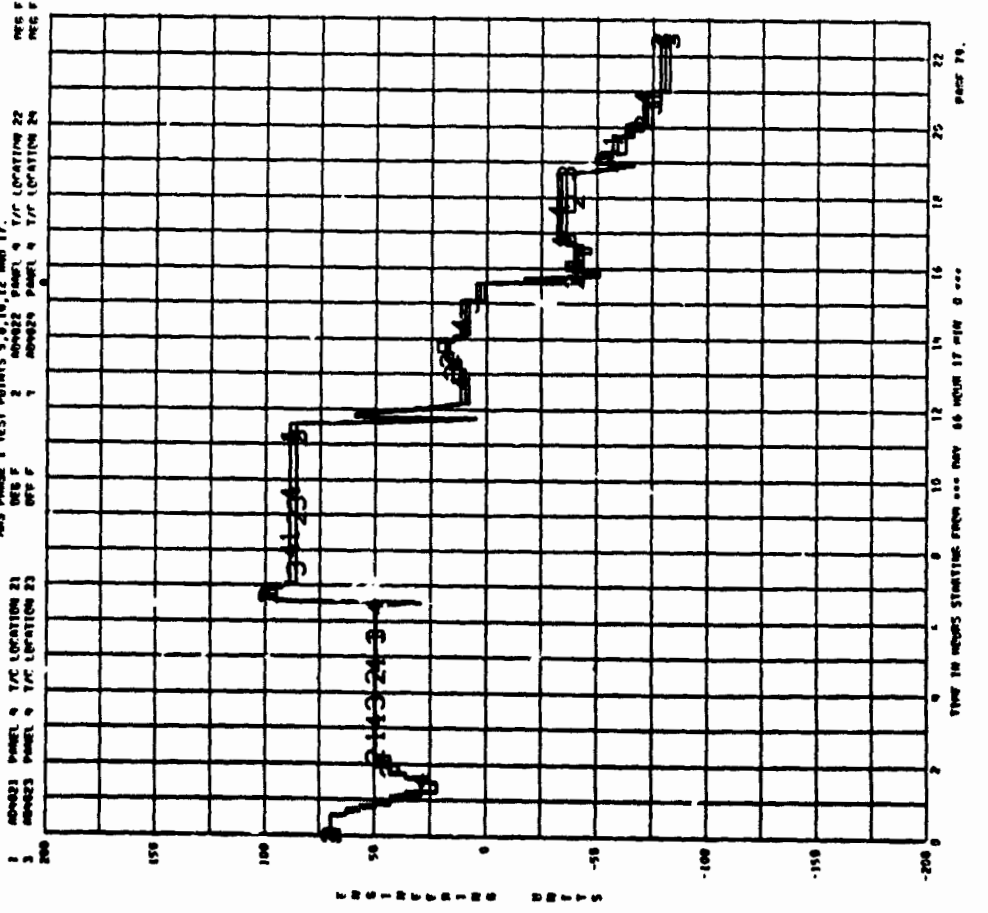
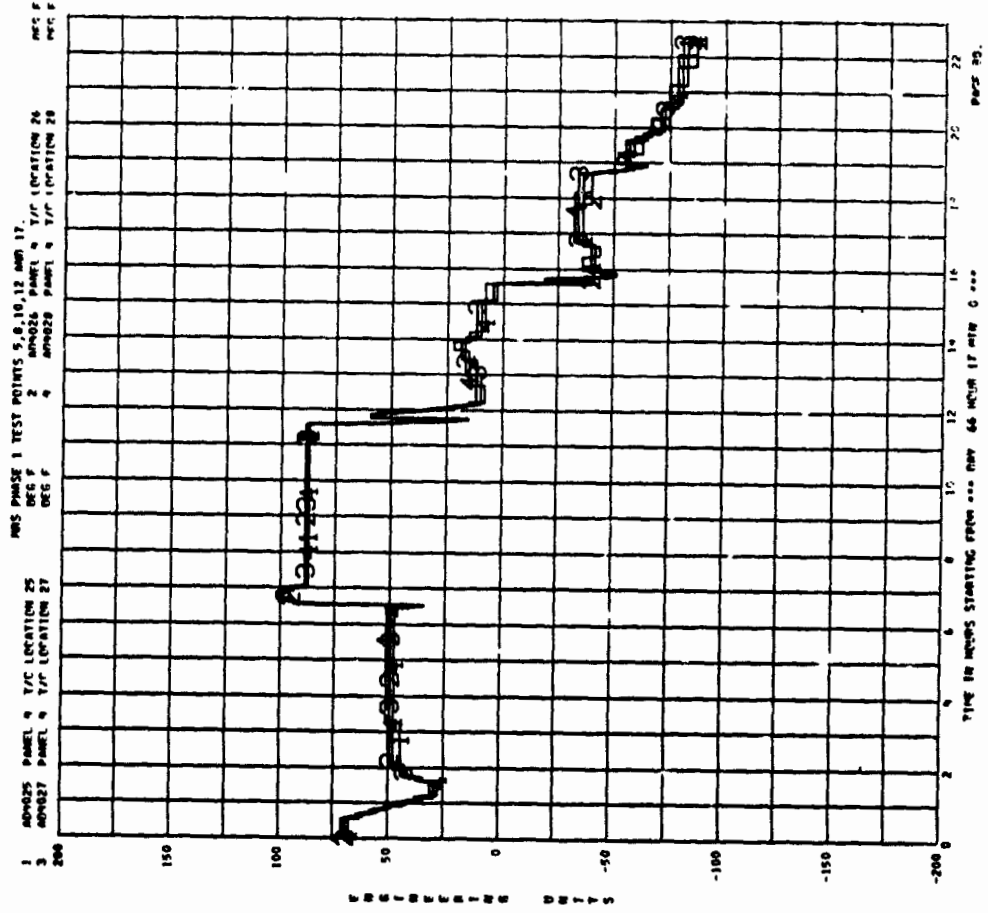
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 3 ACROSS PANEL 3 T/C LOCATION 25



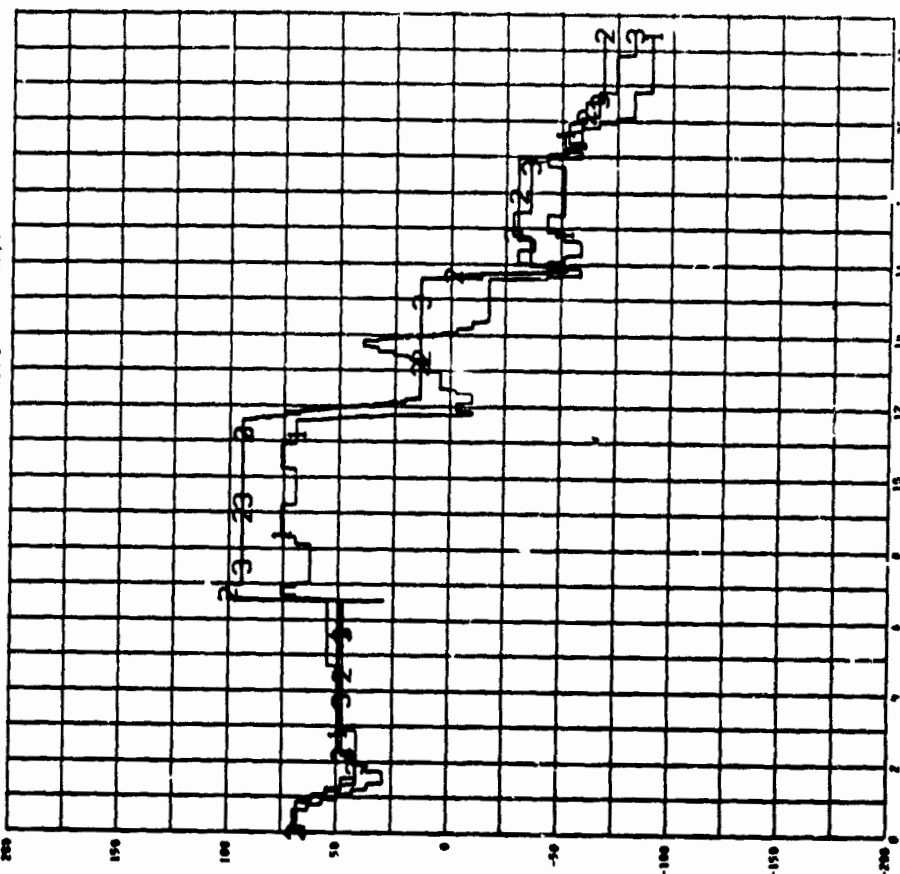
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 3 ACROSS PANEL 3 T/C LOCATION 25





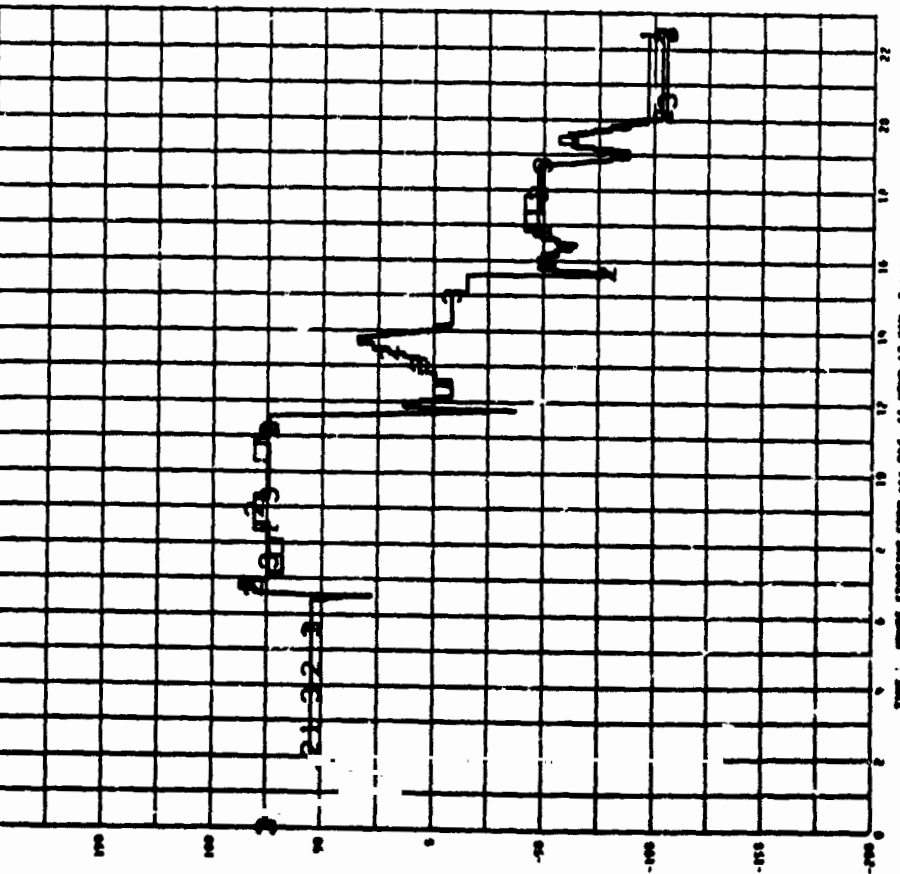


1. APPROX 1 TEST POINTS 5, 6, 10, 12 AND 17.
 2. APPROX 1 TEST POINT 11.
 3. APPROX 1 TEST POINT 18.
 4. APPROX 1 TEST POINT 19.
 5. APPROX 1 TEST POINT 20.
 6. APPROX 1 TEST POINT 21.
 7. APPROX 1 TEST POINT 22.
 8. APPROX 1 TEST POINT 23.
 9. APPROX 1 TEST POINT 24.
 10. APPROX 1 TEST POINT 25.
 11. APPROX 1 TEST POINT 26.
 12. APPROX 1 TEST POINT 27.
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 14. APPROX 1 TEST POINT 29.
 15. APPROX 1 TEST POINT 30.
 16. APPROX 1 TEST POINT 31.
 17. APPROX 1 TEST POINT 32.
 18. APPROX 1 TEST POINT 33.
 19. APPROX 1 TEST POINT 34.
 20. APPROX 1 TEST POINT 35.
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 23. APPROX 1 TEST POINT 38.
 24. APPROX 1 TEST POINT 39.
 25. APPROX 1 TEST POINT 40.
 26. APPROX 1 TEST POINT 41.
 27. APPROX 1 TEST POINT 42.
 28. APPROX 1 TEST POINT 43.
 29. APPROX 1 TEST POINT 44.
 30. APPROX 1 TEST POINT 45.
 31. APPROX 1 TEST POINT 46.
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 33. APPROX 1 TEST POINT 48.
 34. APPROX 1 TEST POINT 49.
 35. APPROX 1 TEST POINT 50.

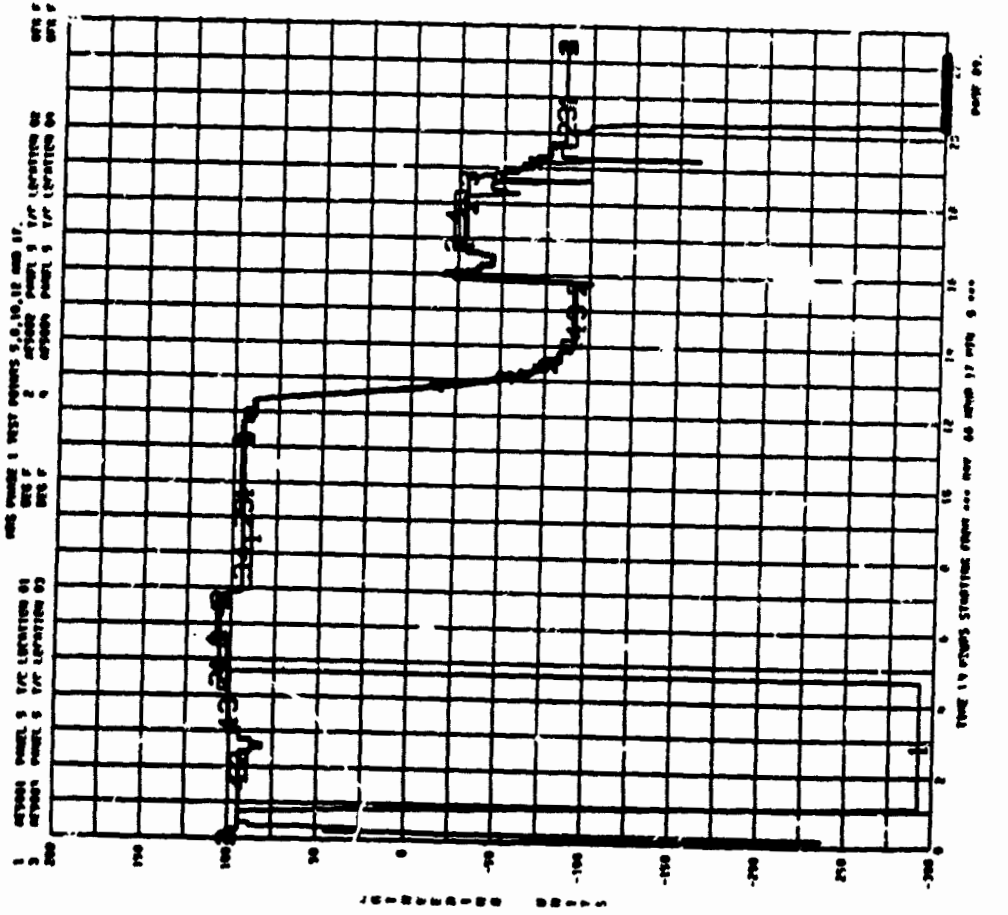
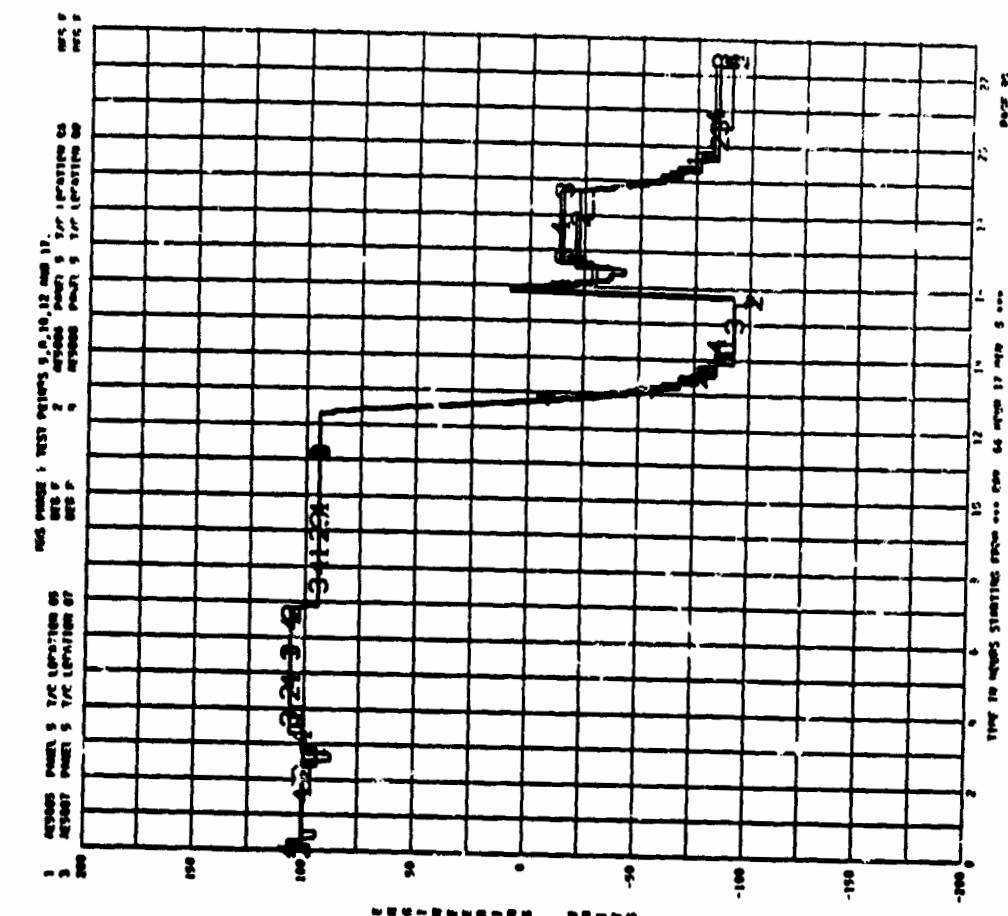


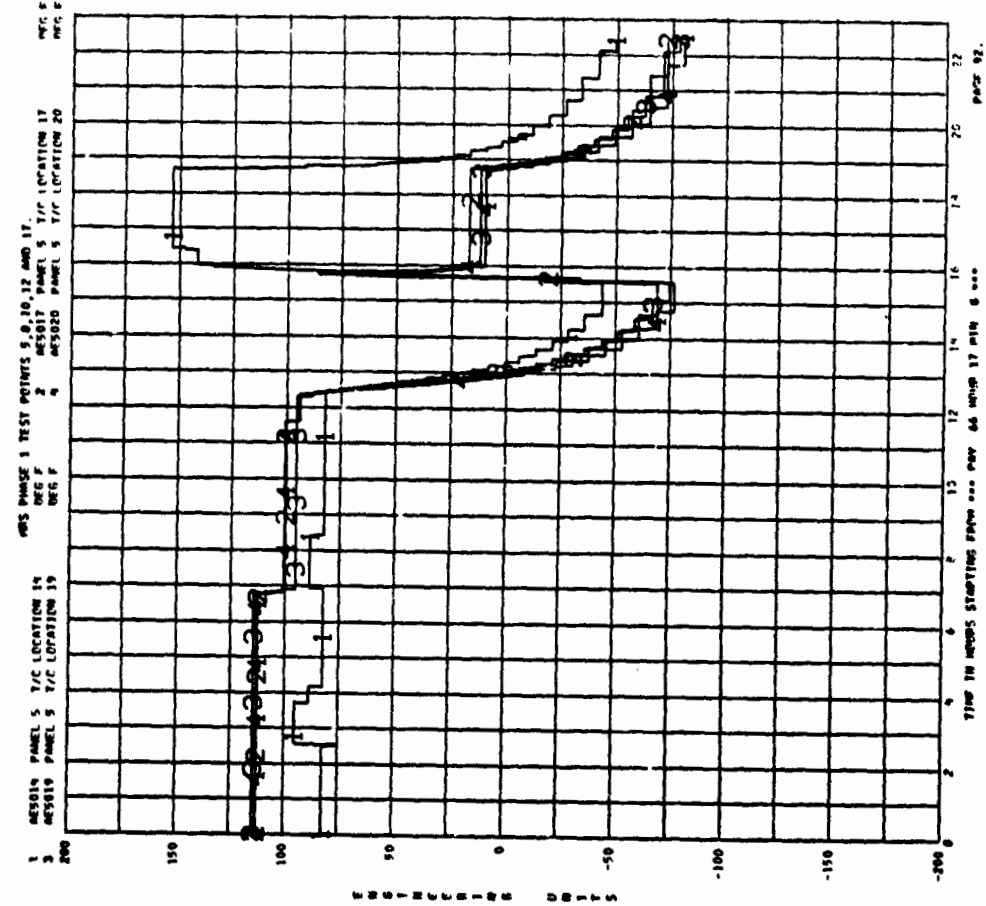
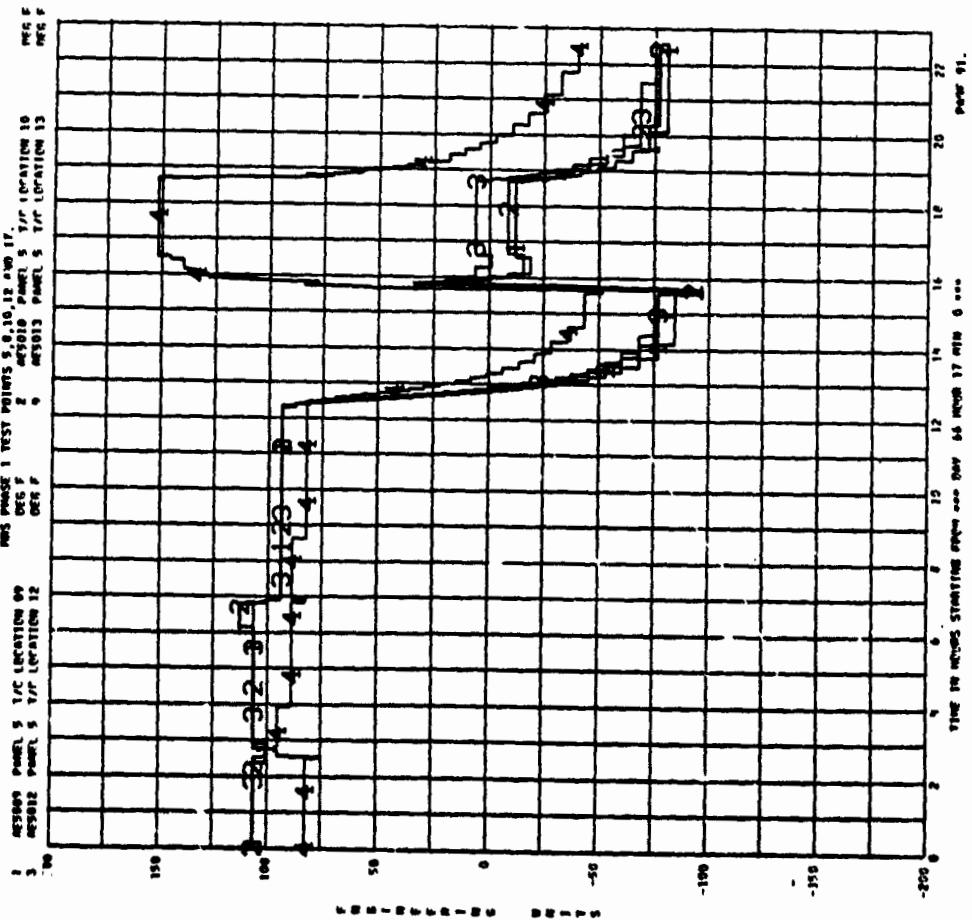
TIME IN SECONDS STARTING FROM ...

1. APPROX 1 TEST POINTS 5, 6, 10, 12 AND 17.
 2. APPROX 1 TEST POINT 11.
 3. APPROX 1 TEST POINT 18.
 4. APPROX 1 TEST POINT 19.
 5. APPROX 1 TEST POINT 20.
 6. APPROX 1 TEST POINT 21.
 7. APPROX 1 TEST POINT 22.
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 9. APPROX 1 TEST POINT 24.
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 23. APPROX 1 TEST POINT 38.
 24. APPROX 1 TEST POINT 39.
 25. APPROX 1 TEST POINT 40.
 26. APPROX 1 TEST POINT 41.
 27. APPROX 1 TEST POINT 42.
 28. APPROX 1 TEST POINT 43.
 29. APPROX 1 TEST POINT 44.
 30. APPROX 1 TEST POINT 45.
 31. APPROX 1 TEST POINT 46.
 32. APPROX 1 TEST POINT 47.
 33. APPROX 1 TEST POINT 48.
 34. APPROX 1 TEST POINT 49.
 35. APPROX 1 TEST POINT 50.



TIME IN SECONDS STARTING FROM ...



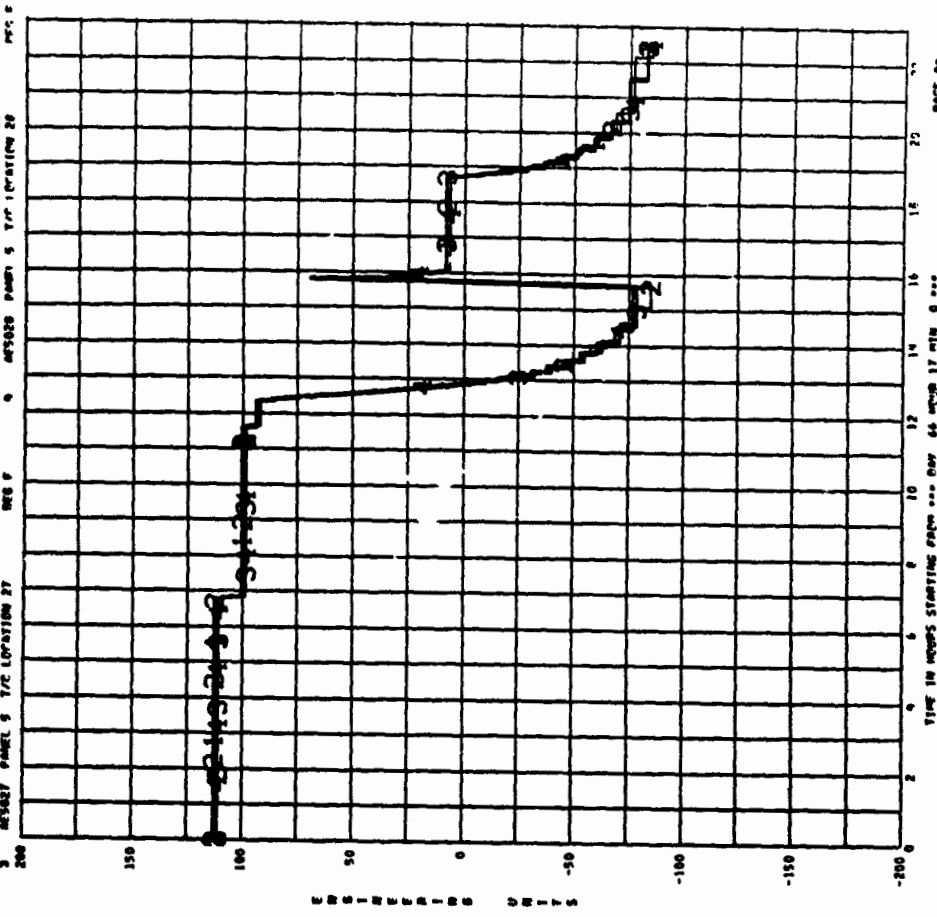
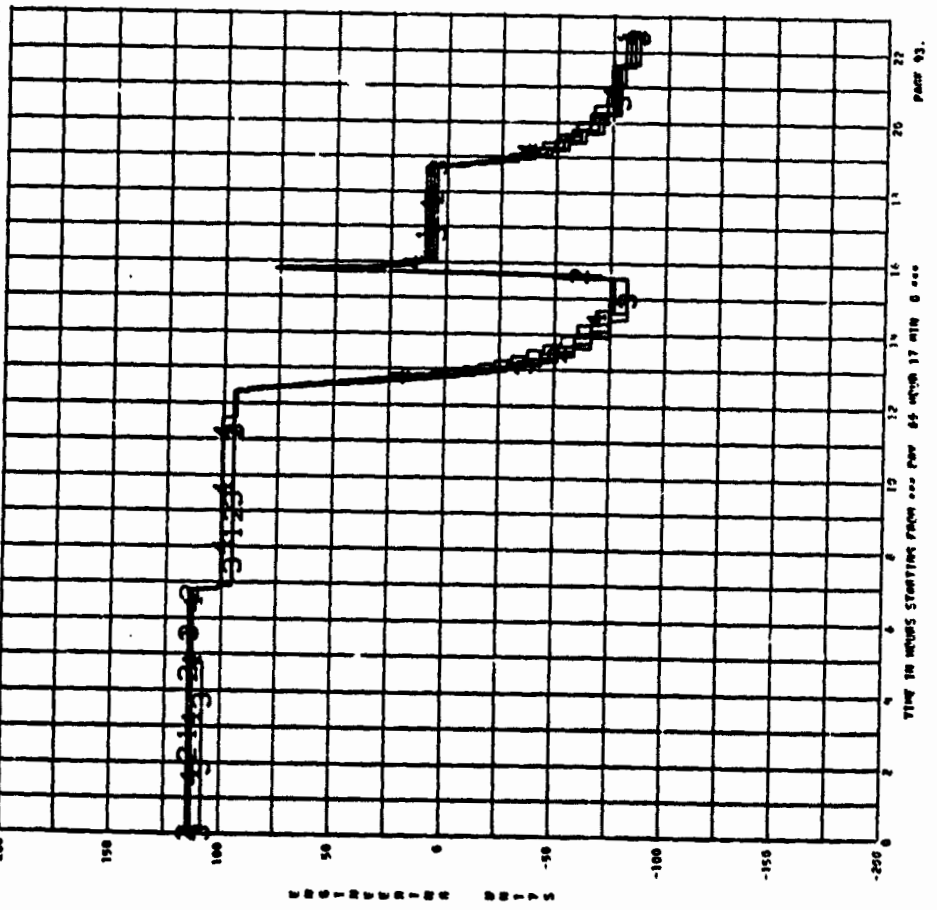


1 MTS001 PANEL 5 T/C LOCATION 21
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 3 MTS003 PANEL 5 T/C LOCATION 25

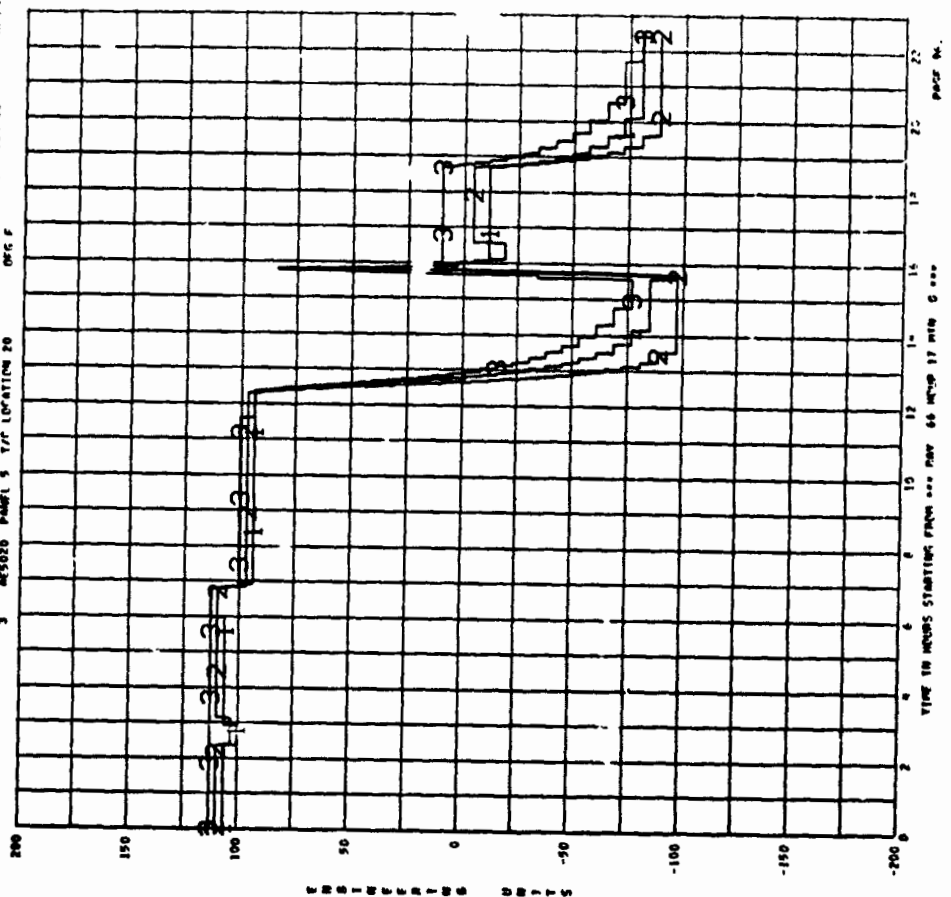
MTS PHASE I TEST POINTS 5, 8, 10, 12 AND 17,
 DEC 7
 DEC 7
 DEC 7

1 MTS004 PANEL 5 T/C LOCATION 26
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 3 MTS006 PANEL 5 T/C LOCATION 30

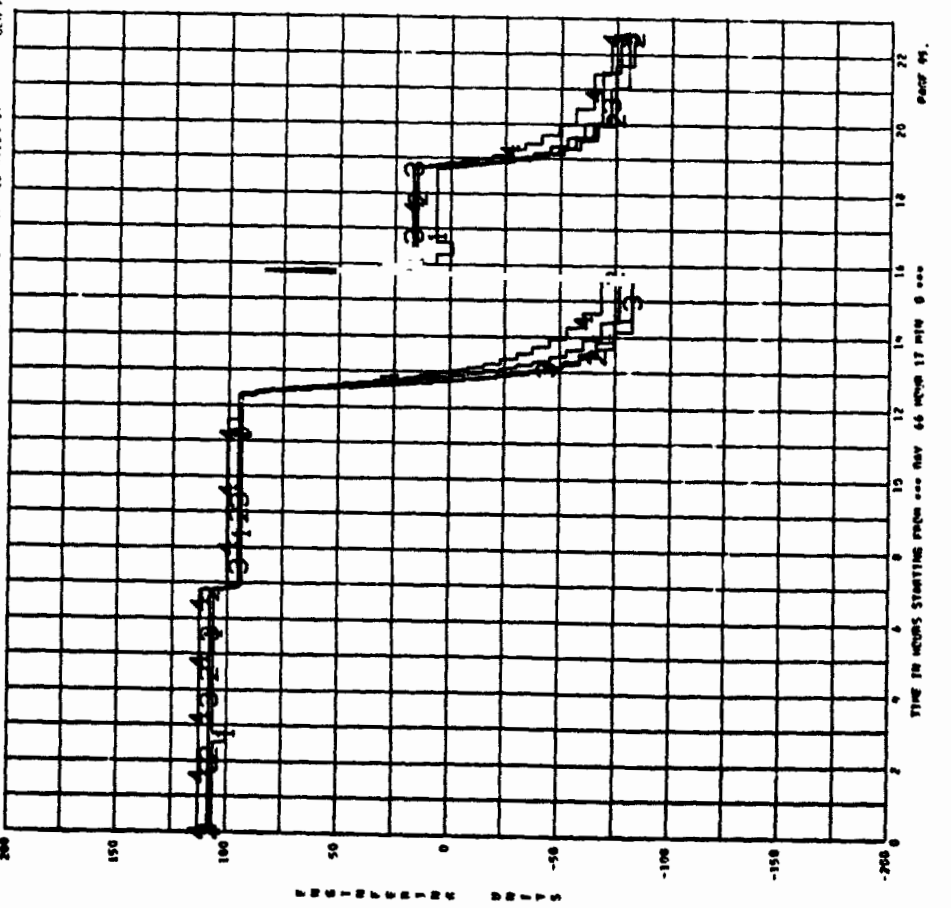
MTS PHASE I TEST POINTS 5, 8, 10, 12 AND 17,
 DEC 7
 DEC 7
 DEC 7

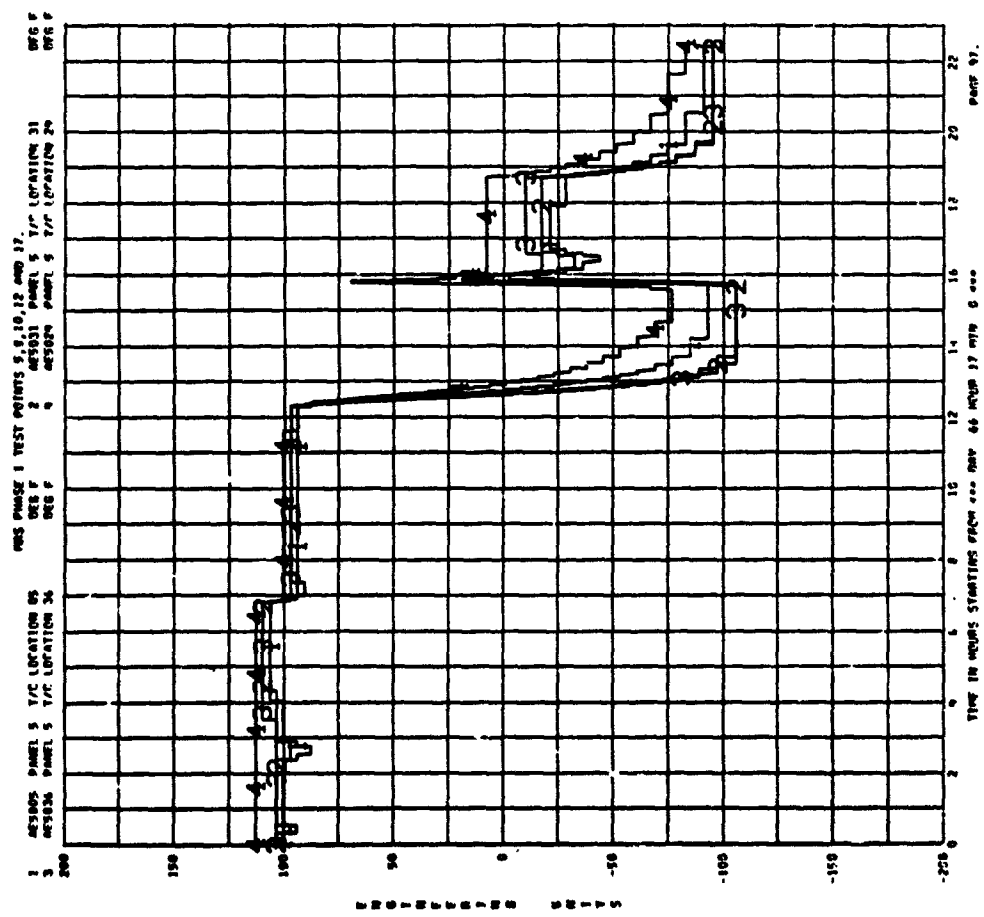
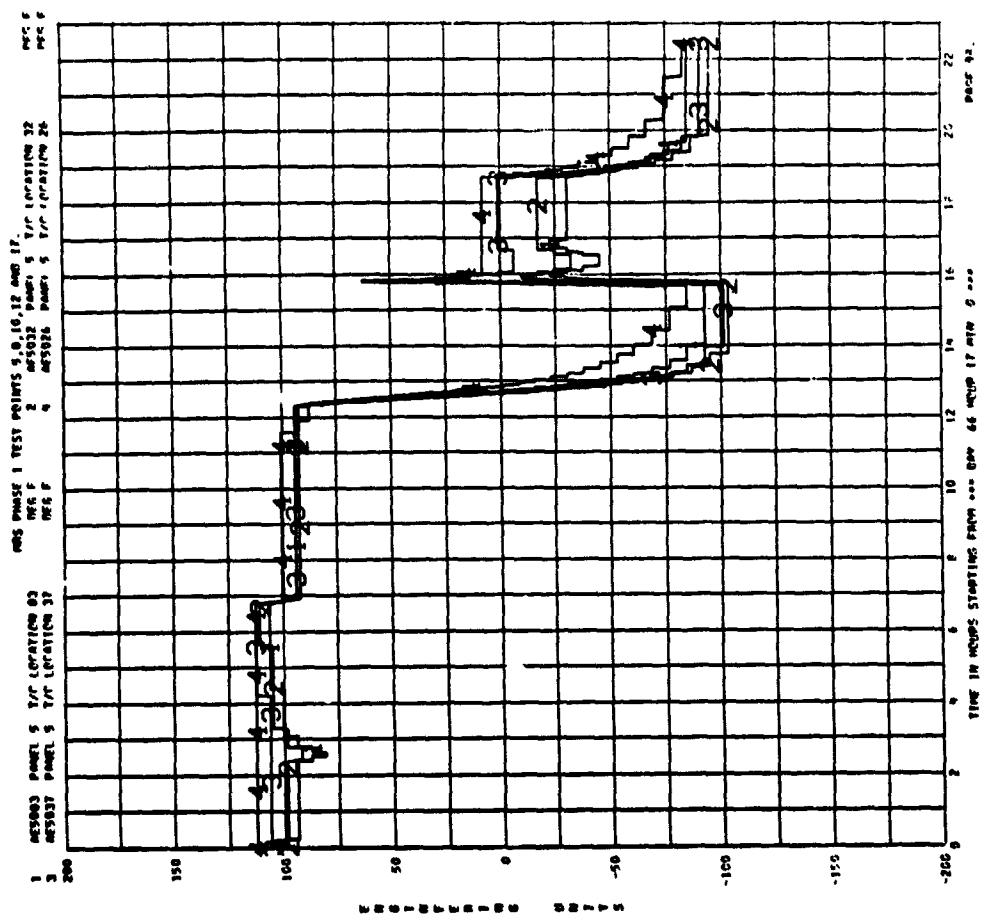


1. MES009 PANEL 5 T/P LOCATION 09
 2. MES020 PANEL 5 T/P LOCATION 20
 3. MES030 PANEL 5 T/P LOCATION 30
 4. MES040 PANEL 5 T/P LOCATION 40
 5. MES050 PANEL 5 T/P LOCATION 50
 6. MES060 PANEL 5 T/P LOCATION 60
 7. MES070 PANEL 5 T/P LOCATION 70
 8. MES080 PANEL 5 T/P LOCATION 80
 9. MES090 PANEL 5 T/P LOCATION 90
 10. MES100 PANEL 5 T/P LOCATION 100
 11. MES110 PANEL 5 T/P LOCATION 110
 12. MES120 PANEL 5 T/P LOCATION 120
 13. MES130 PANEL 5 T/P LOCATION 130
 14. MES140 PANEL 5 T/P LOCATION 140
 15. MES150 PANEL 5 T/P LOCATION 150
 16. MES160 PANEL 5 T/P LOCATION 160
 17. MES170 PANEL 5 T/P LOCATION 170
 18. MES180 PANEL 5 T/P LOCATION 180
 19. MES190 PANEL 5 T/P LOCATION 190
 20. MES200 PANEL 5 T/P LOCATION 200

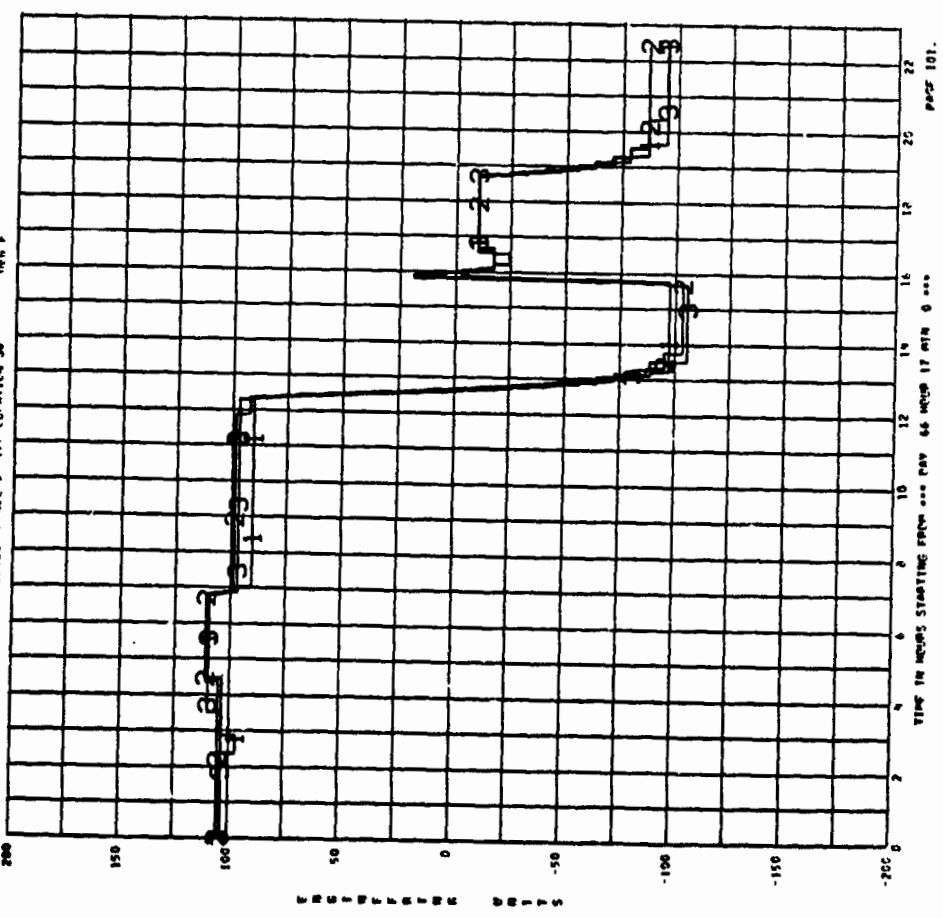


1. MES012 PANEL 5 T/P LOCATION 12
 2. MES016 PANEL 5 T/P LOCATION 16
 3. MES020 PANEL 5 T/P LOCATION 20
 4. MES024 PANEL 5 T/P LOCATION 24
 5. MES028 PANEL 5 T/P LOCATION 28
 6. MES032 PANEL 5 T/P LOCATION 32
 7. MES036 PANEL 5 T/P LOCATION 36
 8. MES040 PANEL 5 T/P LOCATION 40
 9. MES044 PANEL 5 T/P LOCATION 44
 10. MES048 PANEL 5 T/P LOCATION 48
 11. MES052 PANEL 5 T/P LOCATION 52
 12. MES056 PANEL 5 T/P LOCATION 56
 13. MES060 PANEL 5 T/P LOCATION 60
 14. MES064 PANEL 5 T/P LOCATION 64
 15. MES068 PANEL 5 T/P LOCATION 68
 16. MES072 PANEL 5 T/P LOCATION 72
 17. MES076 PANEL 5 T/P LOCATION 76
 18. MES080 PANEL 5 T/P LOCATION 80
 19. MES084 PANEL 5 T/P LOCATION 84
 20. MES088 PANEL 5 T/P LOCATION 88

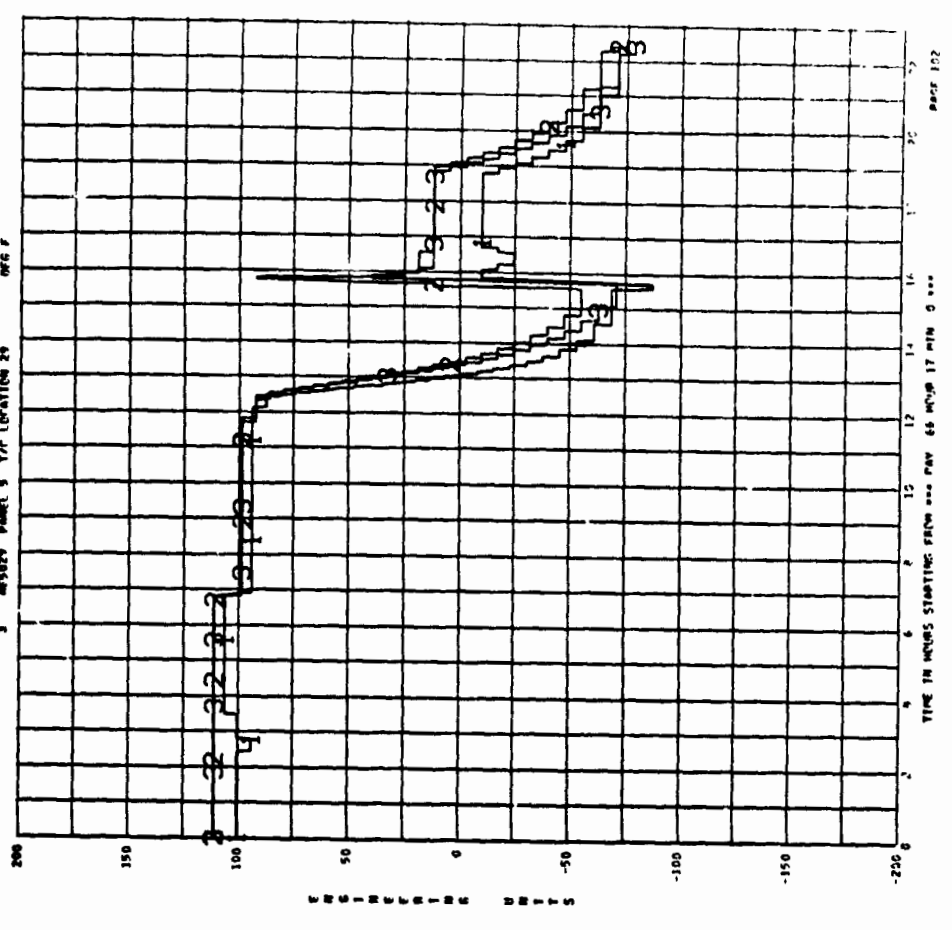




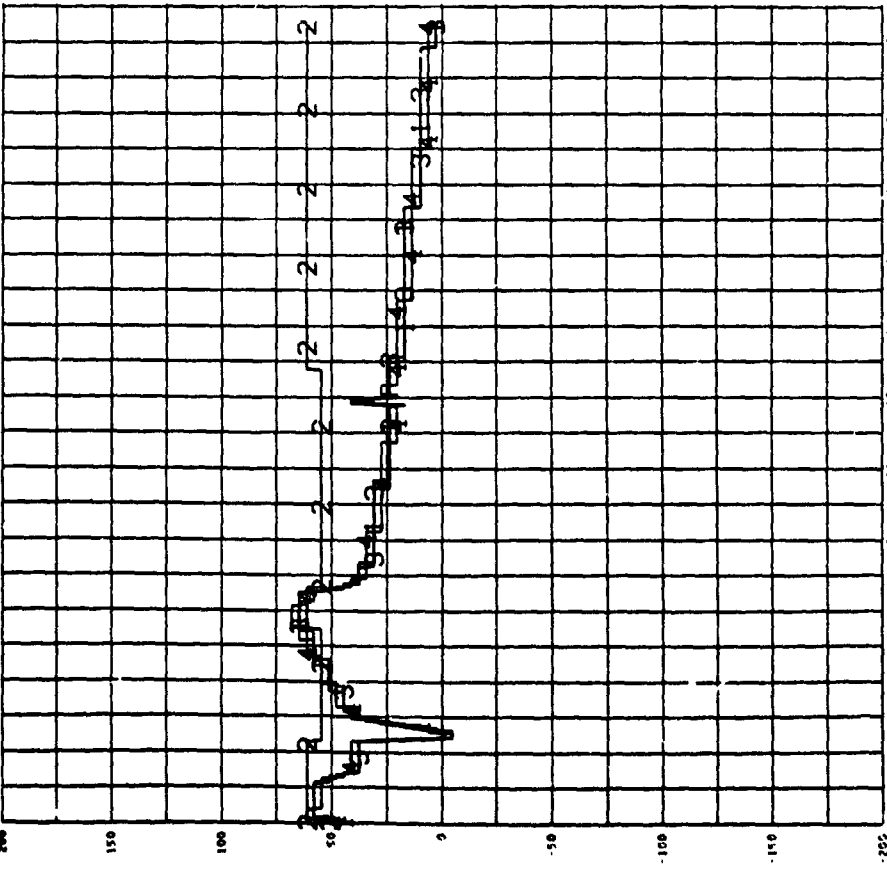
1 MS5134 PANEL 5 T/C LOCATION 31 MS PHASE 1 TEST POINTS 5, 6, 10, 12 AND 17. MS F
 2 MS5135 PANEL 5 T/C LOCATION 35 MS F
 3 MS5136 PANEL 5 T/C LOCATION 36 MS F



1 MS5111 PANEL 5 T/C LOCATION 31 MS PHASE 1 TEST POINTS 5, 6, 10, 12 AND 17. MS F
 2 MS5112 PANEL 5 T/C LOCATION 32 MS F
 3 MS5113 PANEL 5 T/C LOCATION 33 MS F

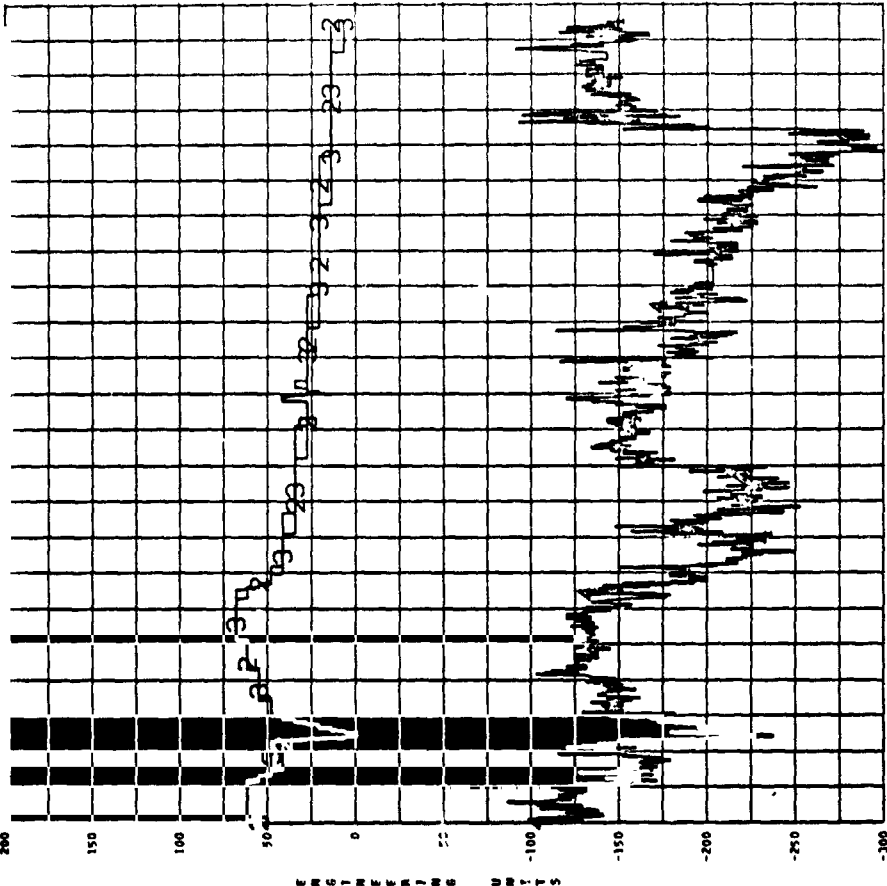


1. AF6003 PANEL 6 T/C LOCATION 01
 2. AF6003 PANEL 6 T/C LOCATION 03
 3. AF6003 PANEL 6 T/C LOCATION 02
 4. AF6004 PANEL 6 T/C LOCATION 04



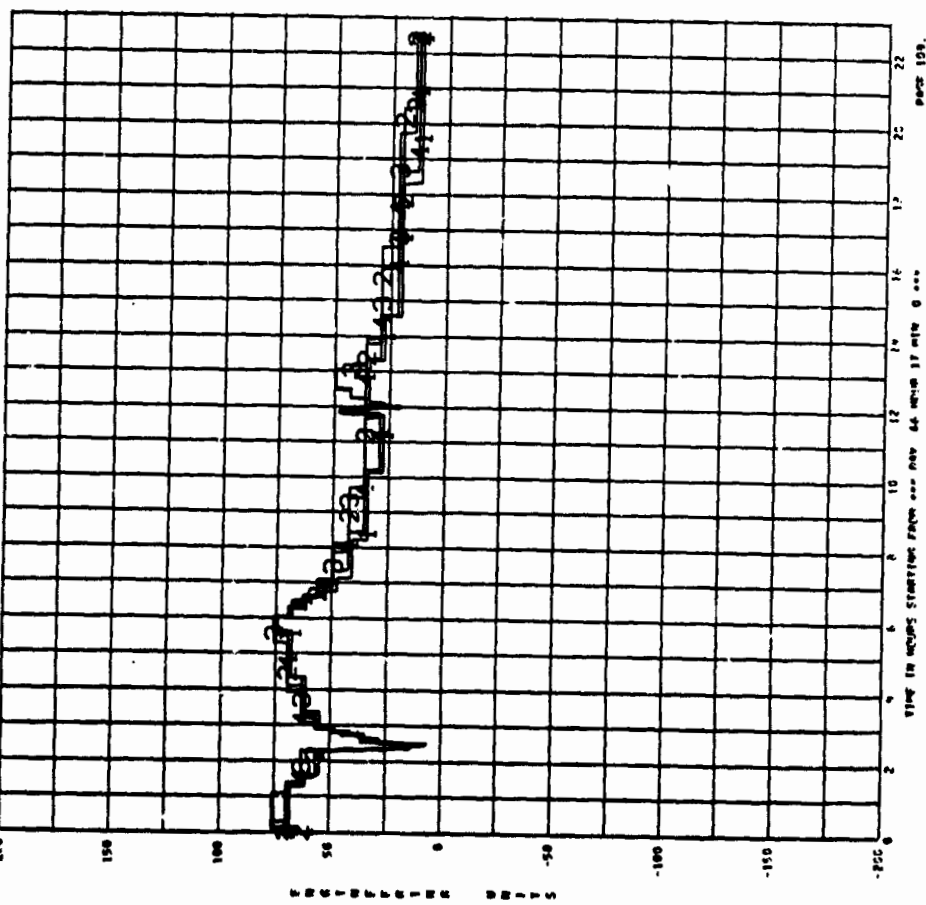
TIME IN HOURS STARTING FROM 0000 MAY 66 HOUR 17 MIN 0 SEC
 PAGE 102

1. AF6005 PANEL 6 T/C LOCATION 05
 2. AF6005 PANEL 6 T/C LOCATION 07
 3. AF6005 PANEL 6 T/C LOCATION 06
 4. AF6006 PANEL 6 T/C LOCATION 08



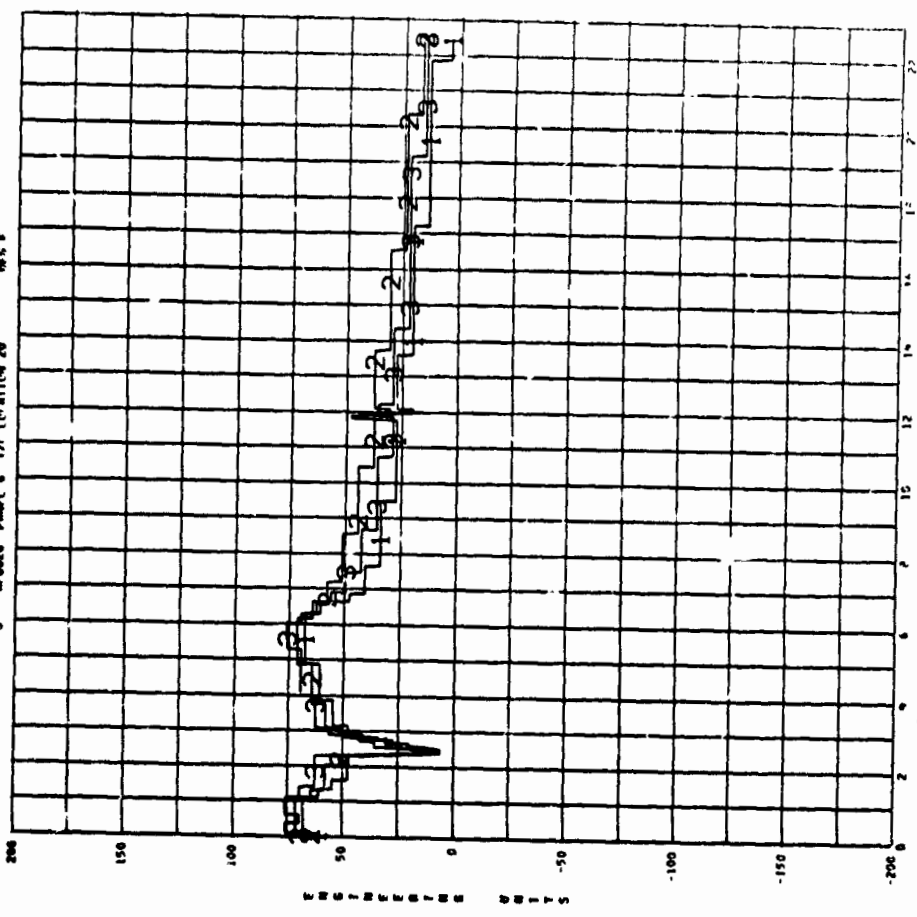
TIME IN HOURS STARTING FROM 0000 MAY 66 HOUR 17 MIN 0 SEC
 PAGE 104

1. AF4812 PANEL 6 T/C LOCATION 12
 2. AF4816 PANEL 6 T/C LOCATION 16
 RMS PHASE 2 TEST POINTS 5, 9, 10, 12 AND 17.
 DEG F 2 AF4815 PANEL 6 T/C LOCATION 15
 DEG F 4 AF4817 PANEL 6 T/C LOCATION 17
 DEG F

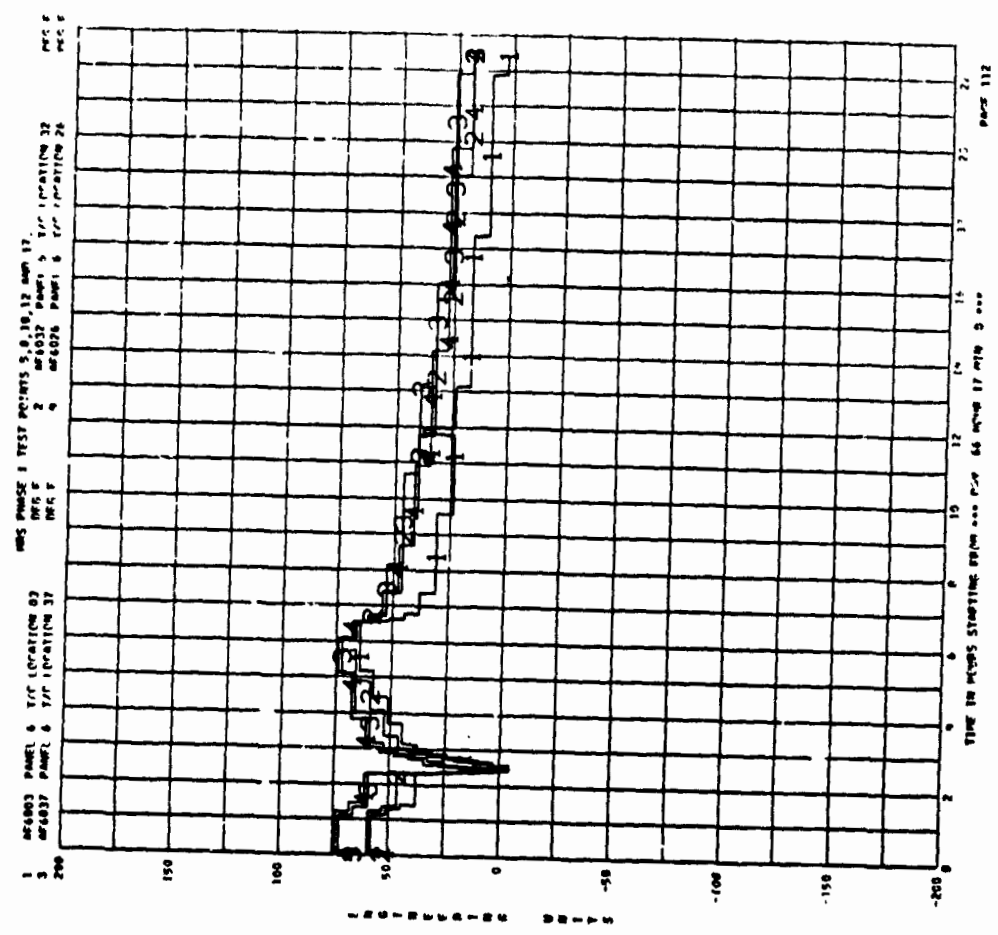
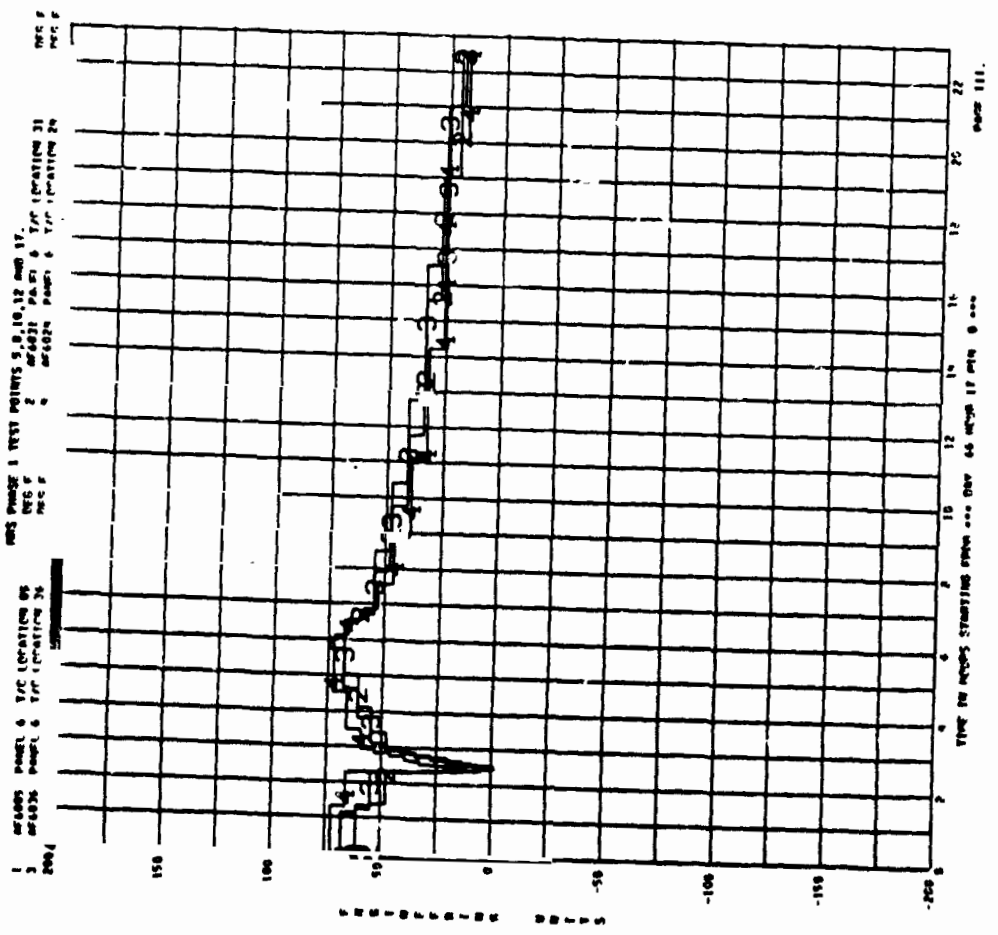


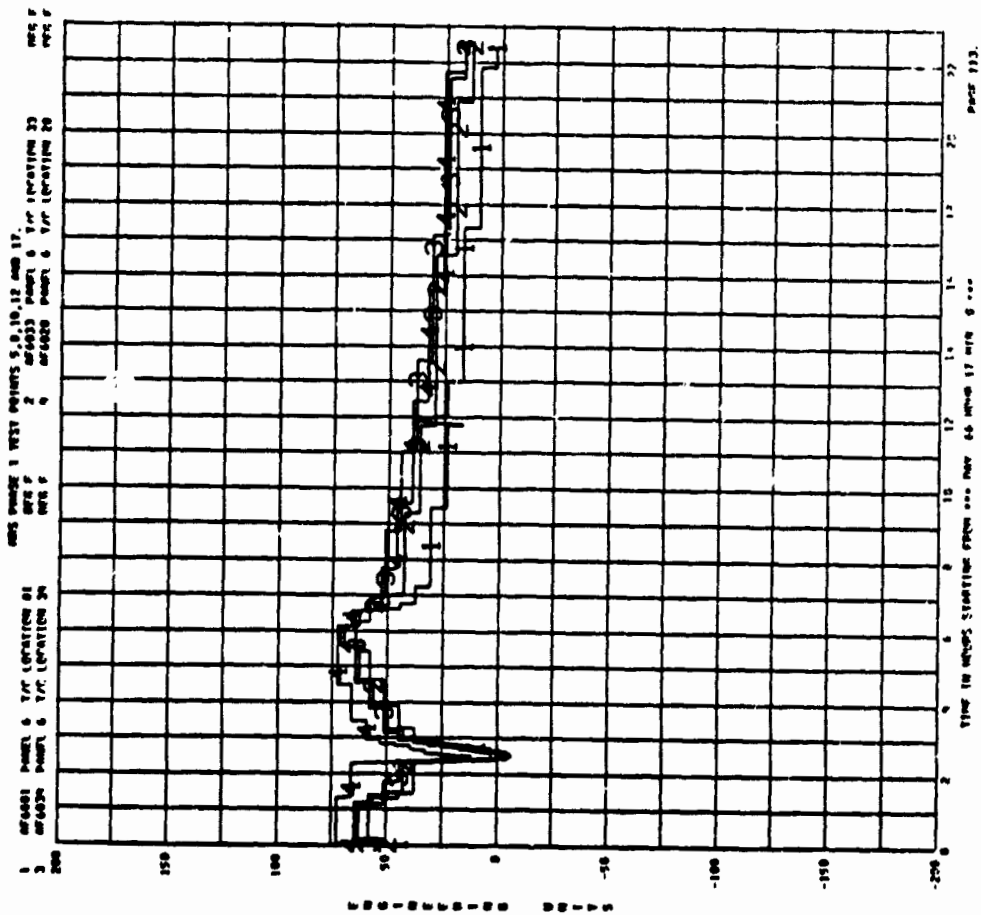
TIME IN HOURS STARTING FROM *** MAY 64 HOUR 17 MIN 0 ***

1. AF4809 PANEL 6 T/C LOCATION 09
 2. AF4820 PANEL 6 T/C LOCATION 20
 RMS PHASE 1 TEST POINTS 5, 9, 10, 12 AND 17.
 DEG F 2 AF4820 PANEL 6 T/C LOCATION 20
 DEG F

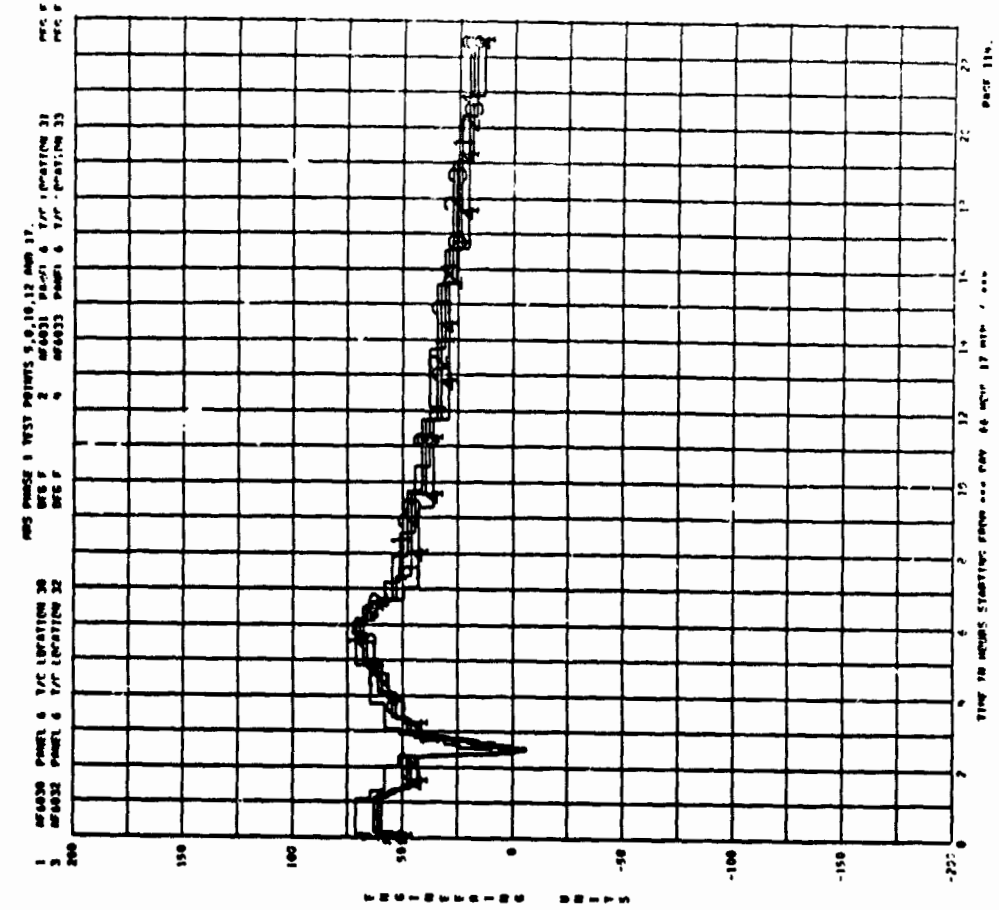


TIME IN HOURS STARTING FROM *** MAY 64 HOUR 17 MIN 6 ***



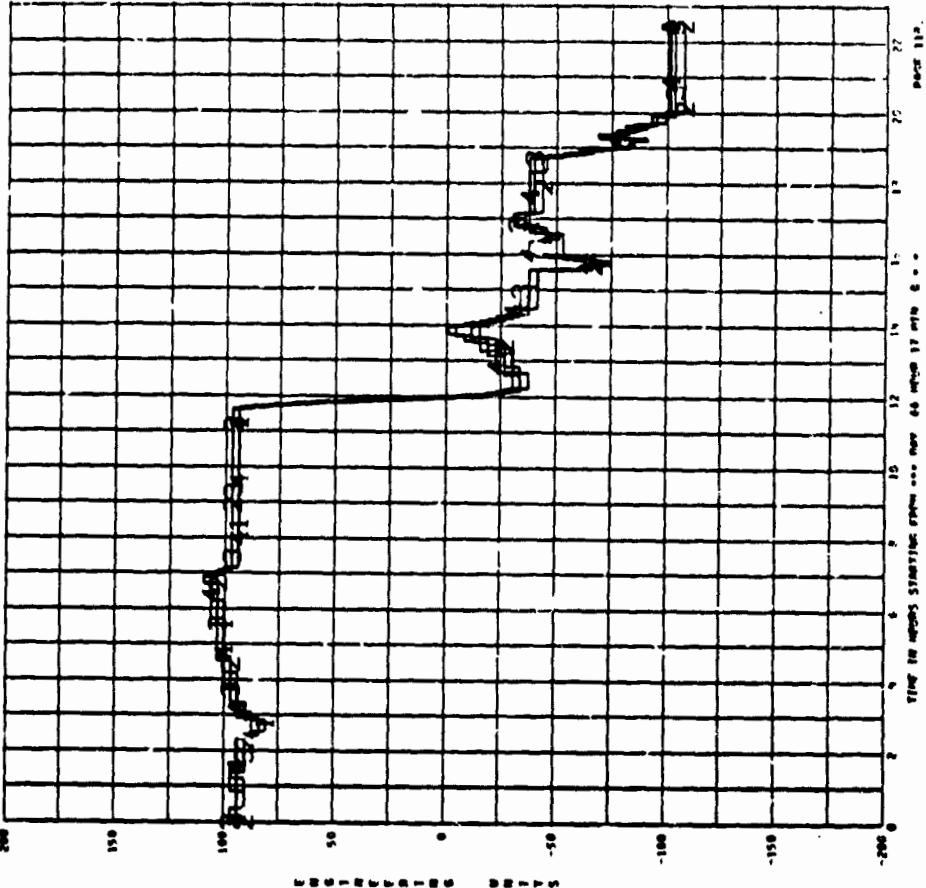


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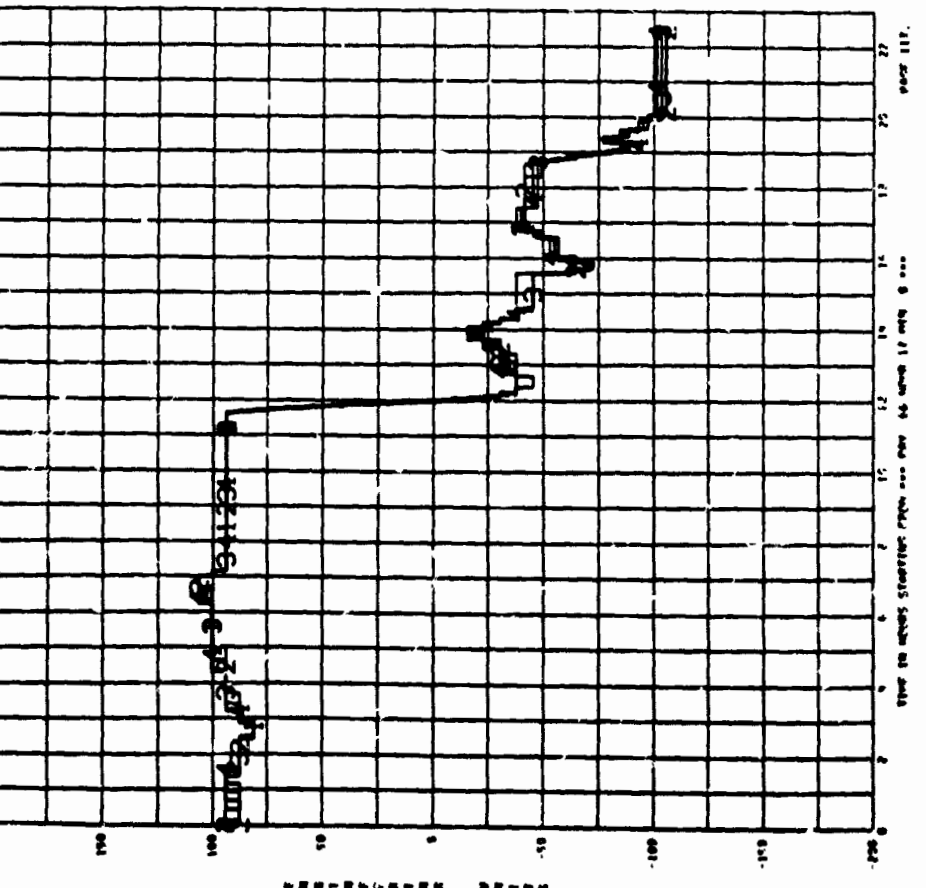
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1. ACT005 PANEL 7 TAP LOCATION 05
 2. ACT007 PANEL 7 TAP LOCATION 07
 3. ACT009 PANEL 7 TAP LOCATION 09
 4. ACT011 PANEL 7 TAP LOCATION 11
 5. ACT013 PANEL 7 TAP LOCATION 13
 6. ACT015 PANEL 7 TAP LOCATION 15
 7. ACT017 PANEL 7 TAP LOCATION 17
 8. ACT019 PANEL 7 TAP LOCATION 19
 9. ACT021 PANEL 7 TAP LOCATION 21
 10. ACT023 PANEL 7 TAP LOCATION 23



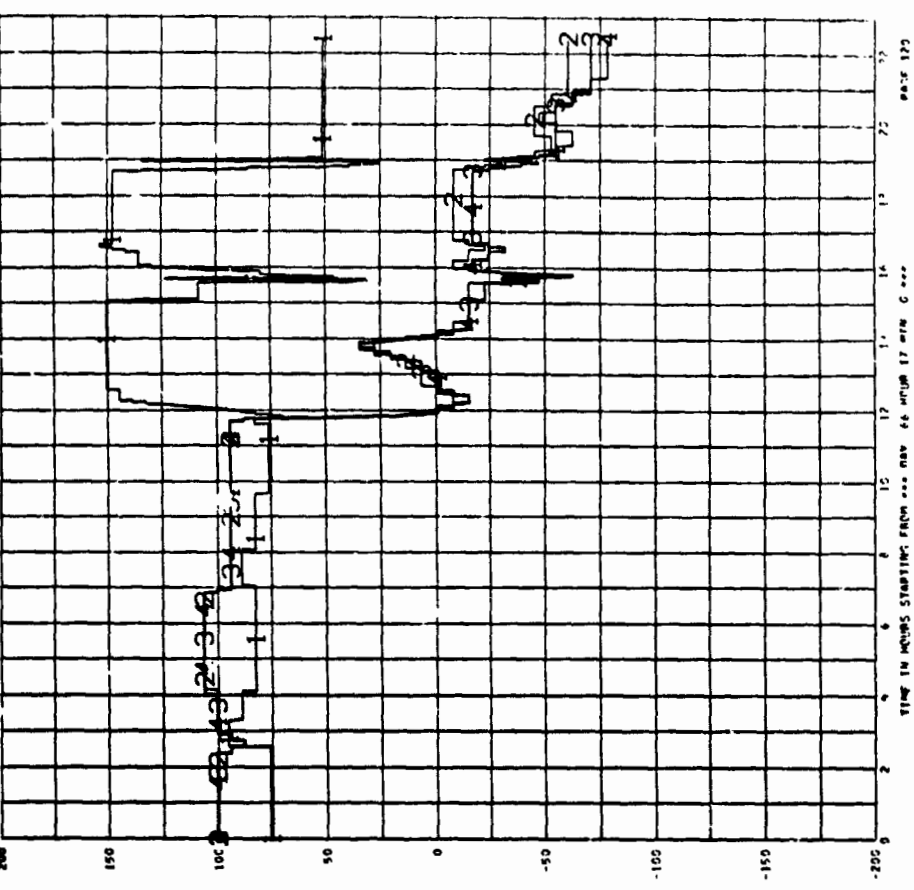
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1. ACT001 PANEL 7 TAP LOCATION 01
 2. ACT003 PANEL 7 TAP LOCATION 03
 3. ACT005 PANEL 7 TAP LOCATION 05
 4. ACT007 PANEL 7 TAP LOCATION 07
 5. ACT009 PANEL 7 TAP LOCATION 09
 6. ACT011 PANEL 7 TAP LOCATION 11
 7. ACT013 PANEL 7 TAP LOCATION 13
 8. ACT015 PANEL 7 TAP LOCATION 15
 9. ACT017 PANEL 7 TAP LOCATION 17
 10. ACT019 PANEL 7 TAP LOCATION 19
 11. ACT021 PANEL 7 TAP LOCATION 21
 12. ACT023 PANEL 7 TAP LOCATION 23

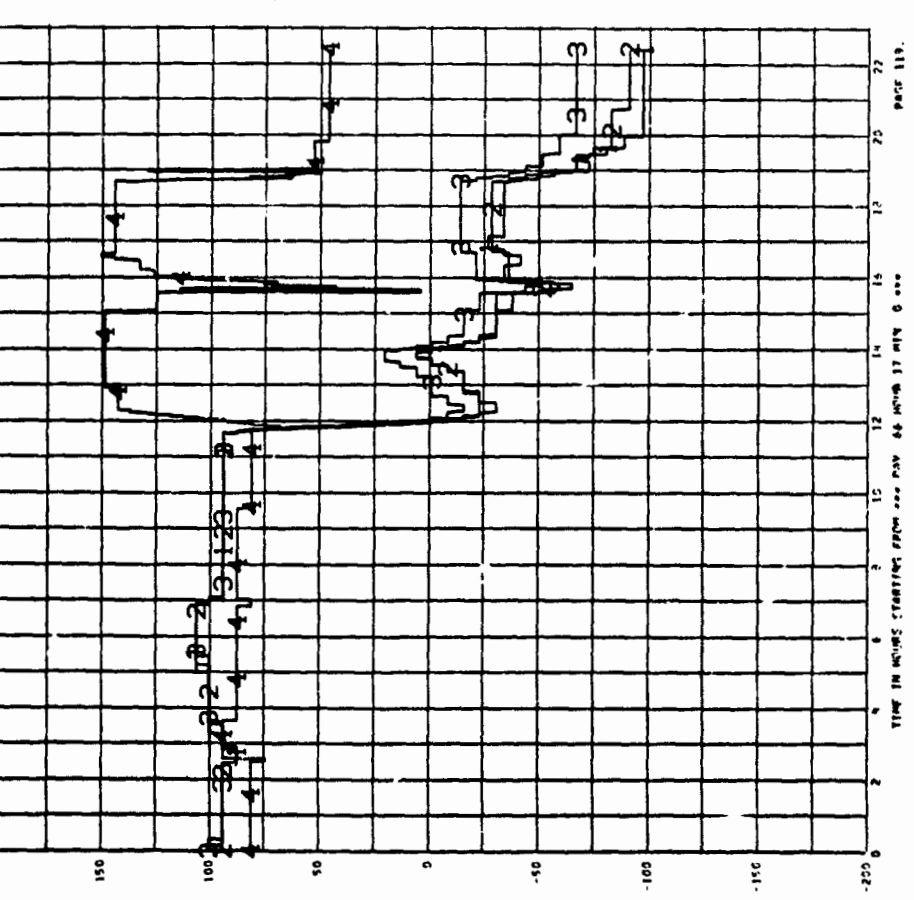


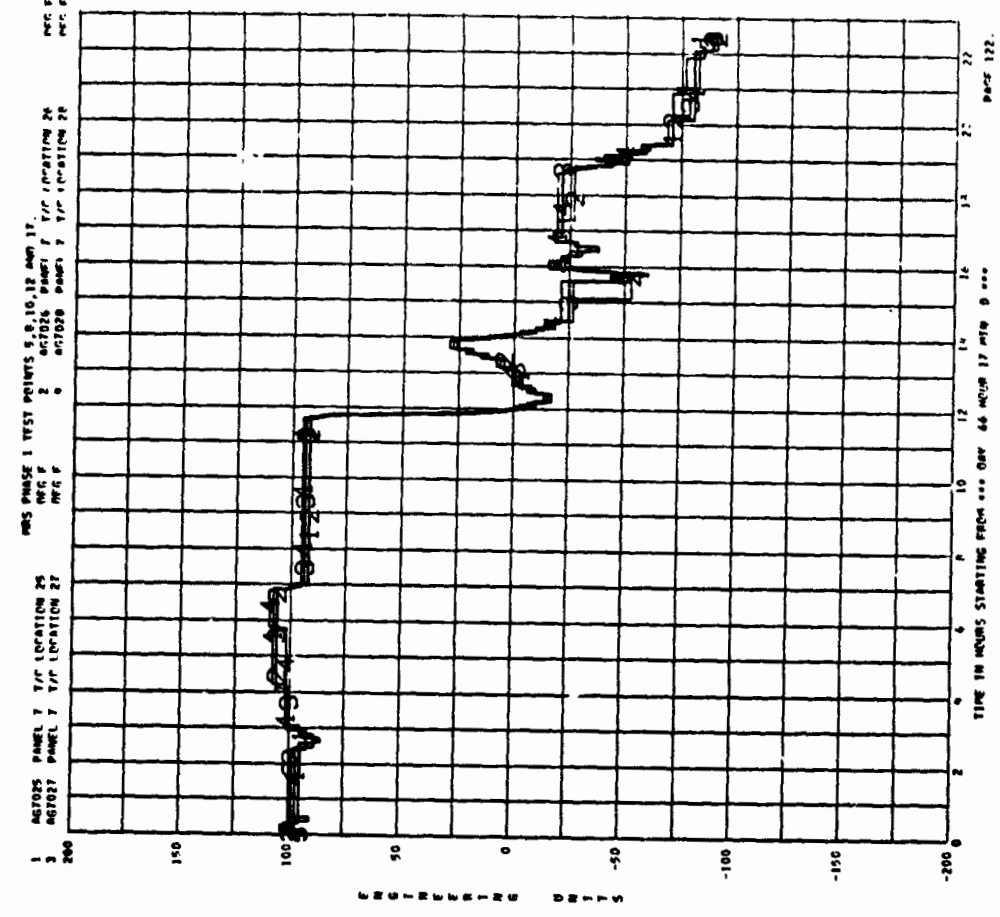
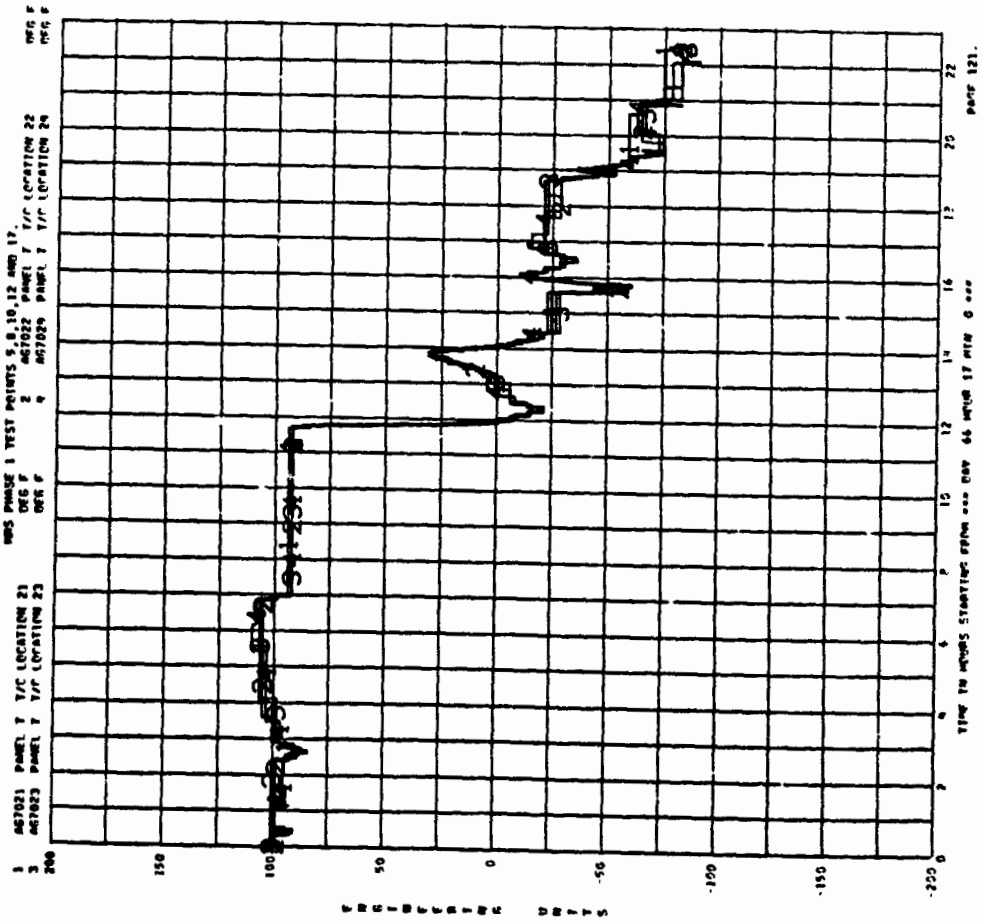
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1. AST010 PANEL 7 T/P LOCATION 19
 2. AST010 PANEL 7 T/P LOCATION 19
 3. AST010 PANEL 7 T/P LOCATION 19
 4. AST010 PANEL 7 T/P LOCATION 19
 5. AST010 PANEL 7 T/P LOCATION 19
 6. AST010 PANEL 7 T/P LOCATION 19
 7. AST010 PANEL 7 T/P LOCATION 19
 8. AST010 PANEL 7 T/P LOCATION 19
 9. AST010 PANEL 7 T/P LOCATION 19
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 11. AST010 PANEL 7 T/P LOCATION 19
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 16. AST010 PANEL 7 T/P LOCATION 19
 17. AST010 PANEL 7 T/P LOCATION 19
 18. AST010 PANEL 7 T/P LOCATION 19
 19. AST010 PANEL 7 T/P LOCATION 19
 20. AST010 PANEL 7 T/P LOCATION 19

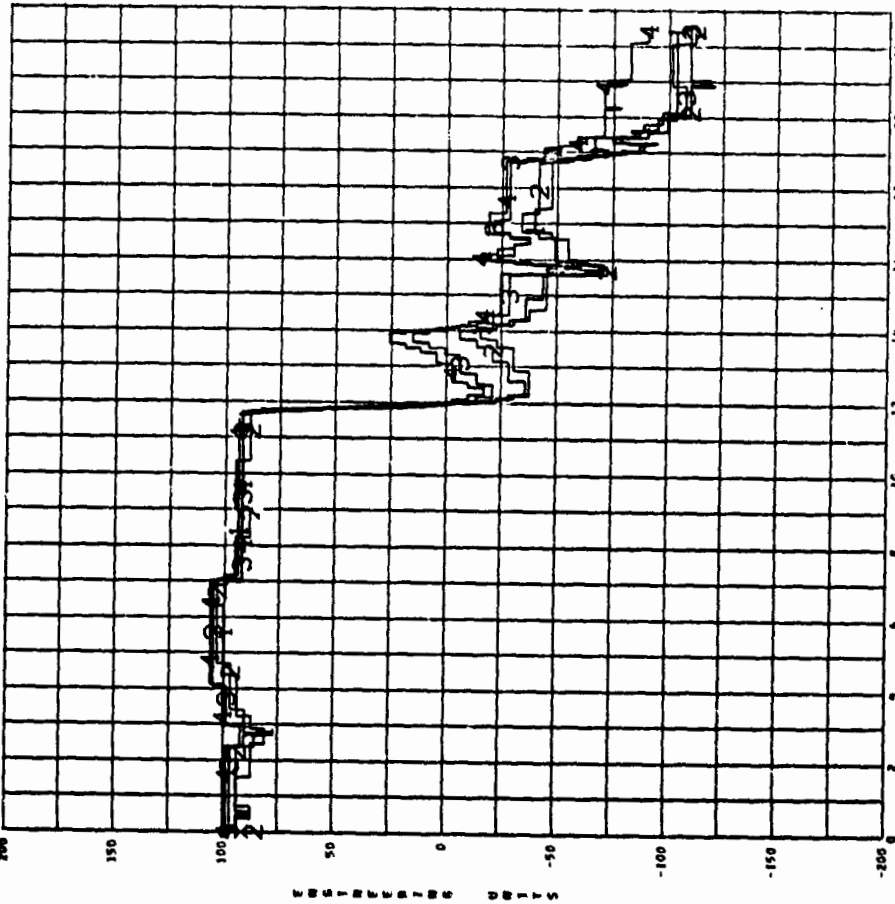


1. AST010 PANEL 7 T/P LOCATION 19
 2. AST010 PANEL 7 T/P LOCATION 19
 3. AST010 PANEL 7 T/P LOCATION 19
 4. AST010 PANEL 7 T/P LOCATION 19
 5. AST010 PANEL 7 T/P LOCATION 19
 6. AST010 PANEL 7 T/P LOCATION 19
 7. AST010 PANEL 7 T/P LOCATION 19
 8. AST010 PANEL 7 T/P LOCATION 19
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 10. AST010 PANEL 7 T/P LOCATION 19
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 16. AST010 PANEL 7 T/P LOCATION 19
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 20. AST010 PANEL 7 T/P LOCATION 19



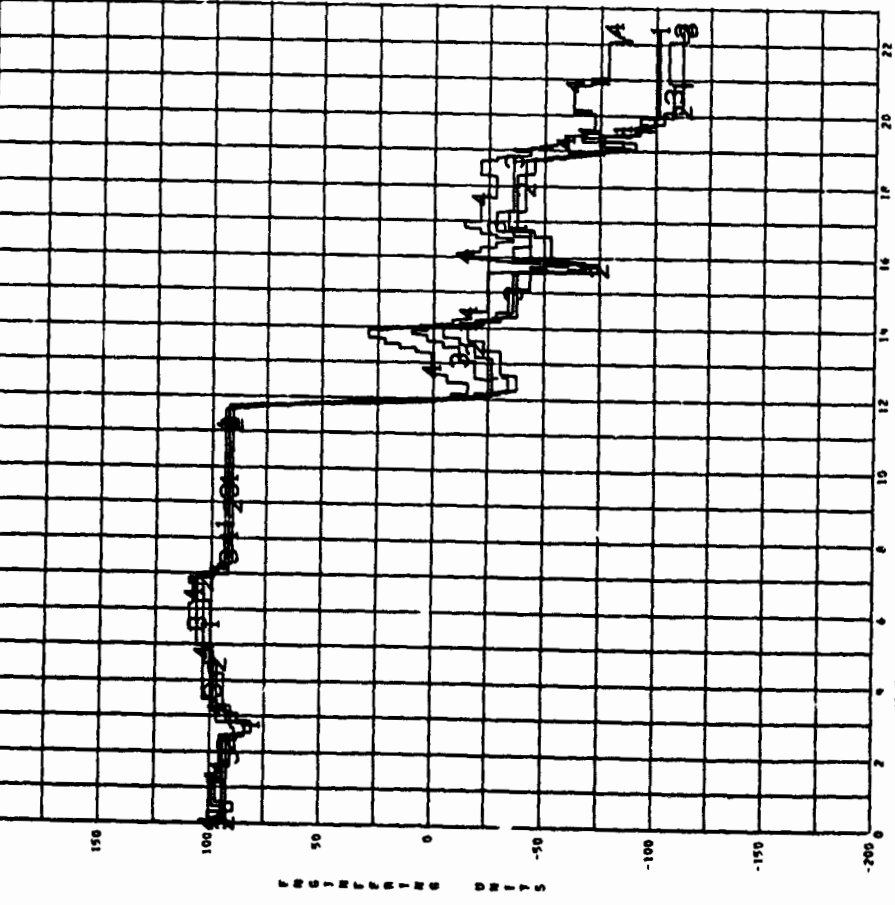


1 AC7003 PANEL 7 T/C LOCATION 03 NEG F
 2 AC7032 PANEL 7 T/C LOCATION 32 NEG F
 3 AC7037 PANEL 7 T/C LOCATION 37 NEG F
 WRS PHASE 1 TEST POINTS 5, 8, 10, 12 AND 17
 NEG F
 NEG F
 NEG F

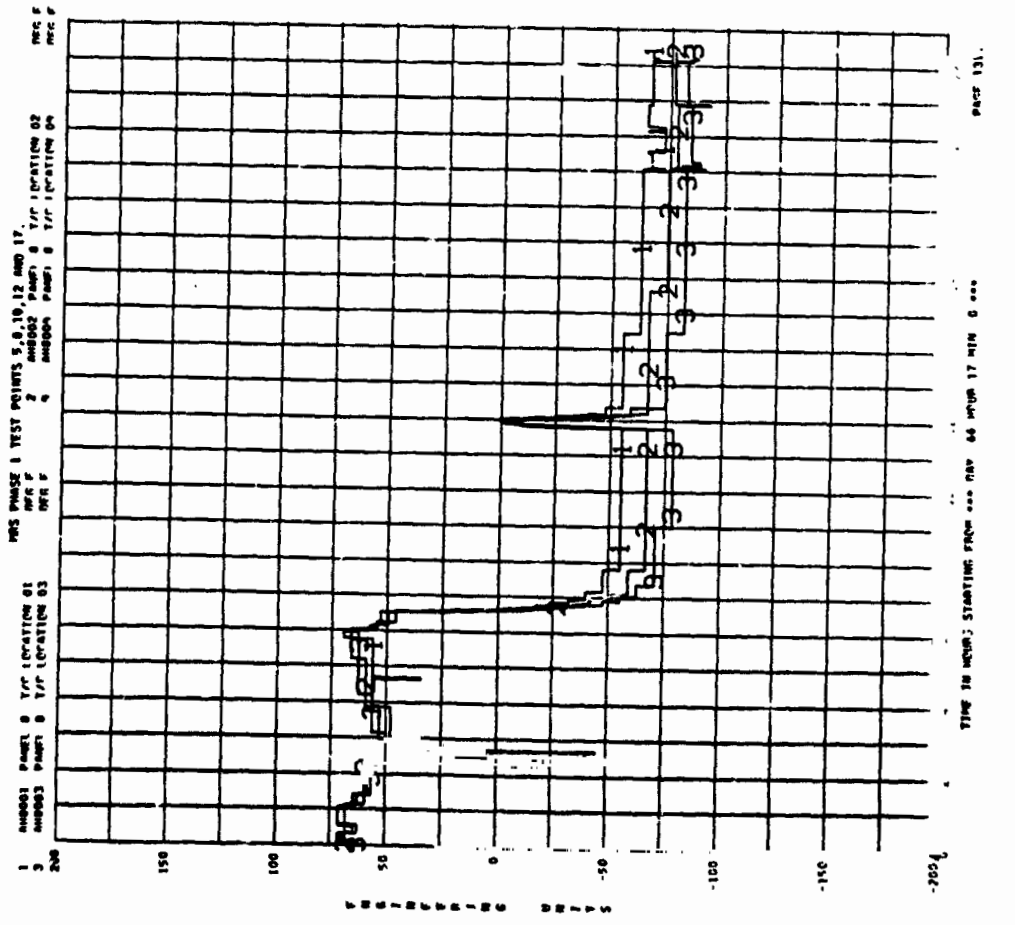
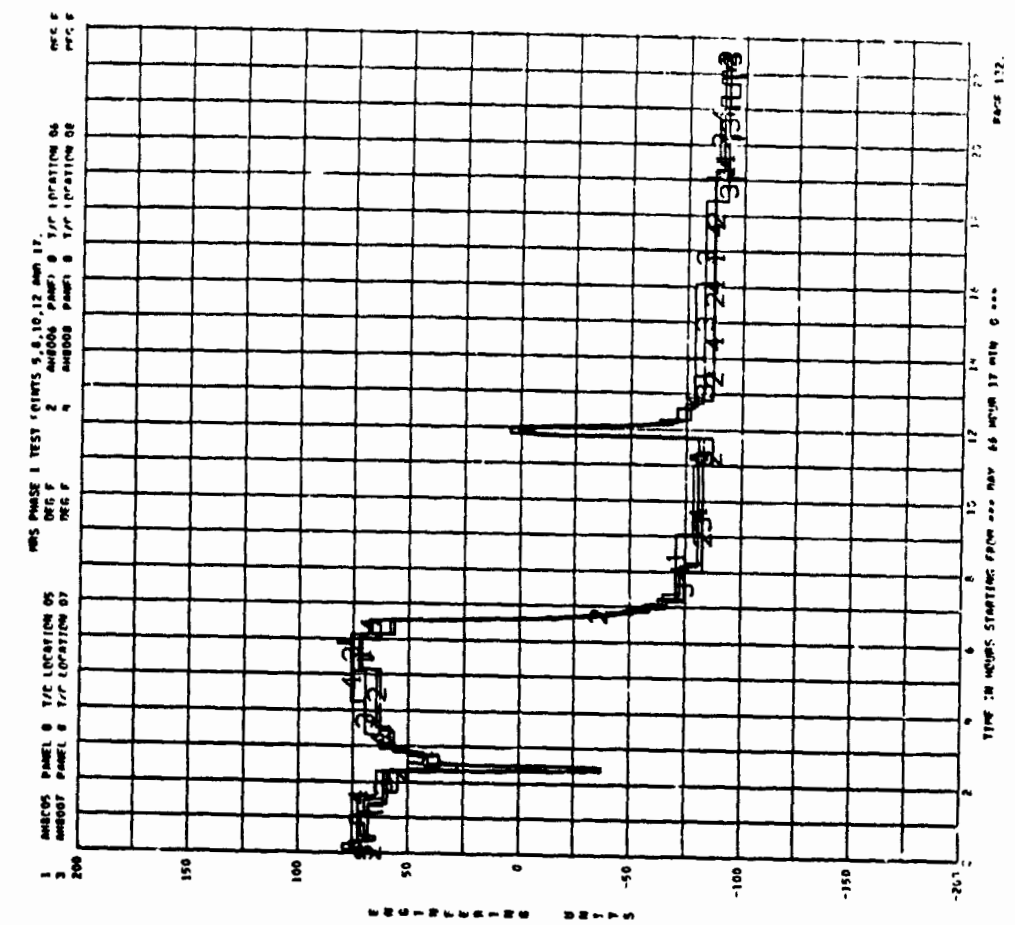


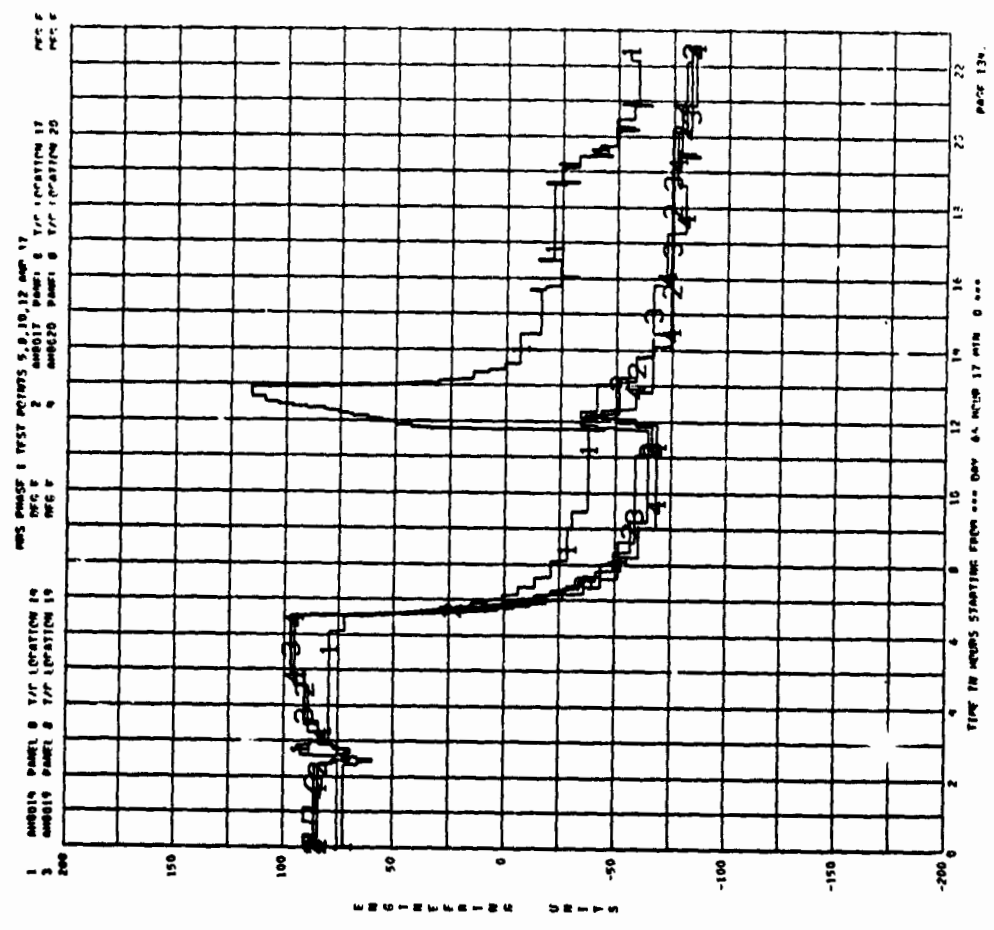
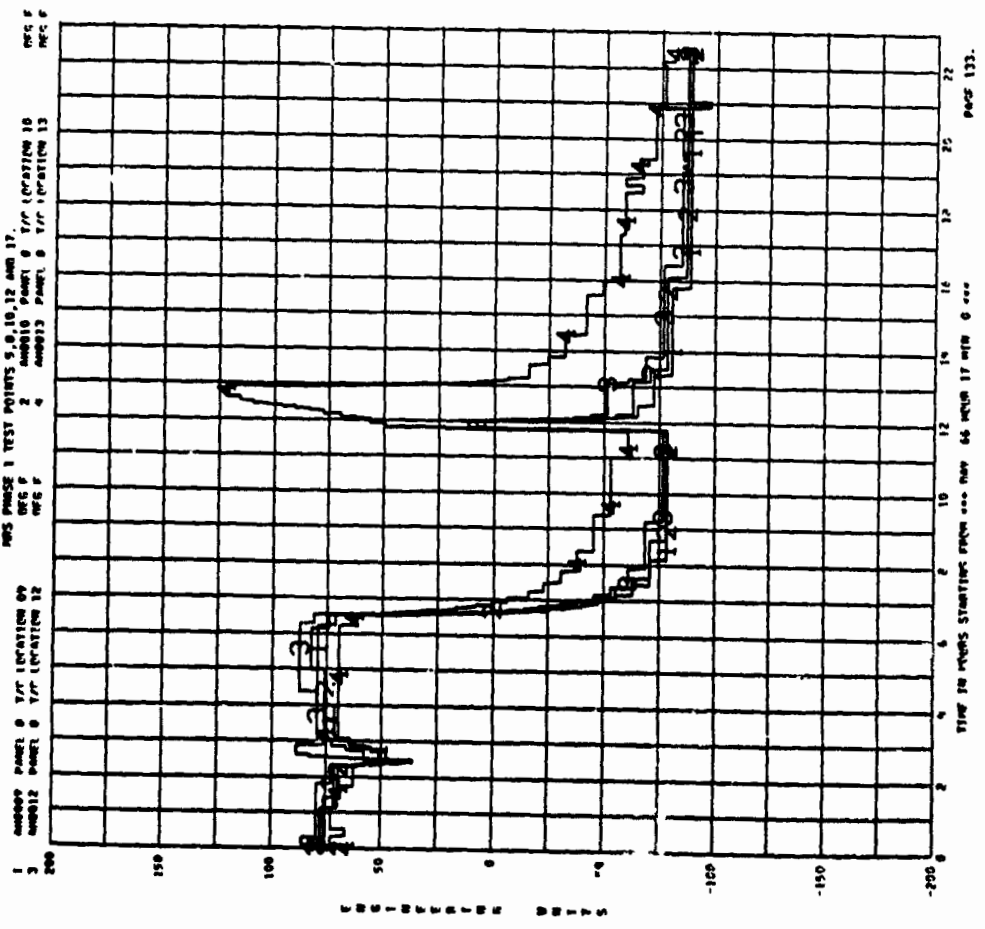
TIME IN HOURS STARTING FROM 0000 MAY 66 HOUR 17 MIN 0 SEC PAGE 124.

1 AC7005 PANEL 7 T/C LOCATION 05 NEG F
 2 AC7033 PANEL 7 T/C LOCATION 31 NEG F
 3 AC7026 PANEL 7 T/C LOCATION 26 NEG F
 WRS PHASE 1 TEST POINTS 5, 8, 10, 12 AND 17
 NEG F
 NEG F
 NEG F

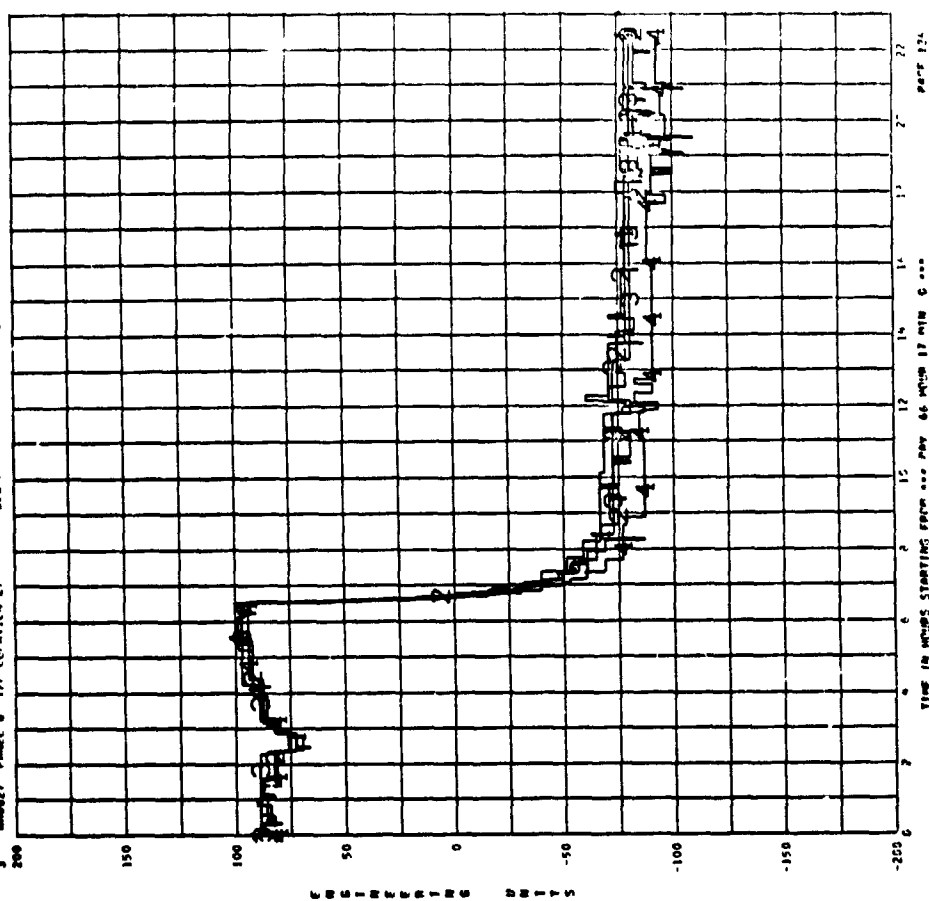


TIME IN HOURS STARTING FROM 0000 MAY 66 HOUR 17 MIN 0 SEC PAGE 125.



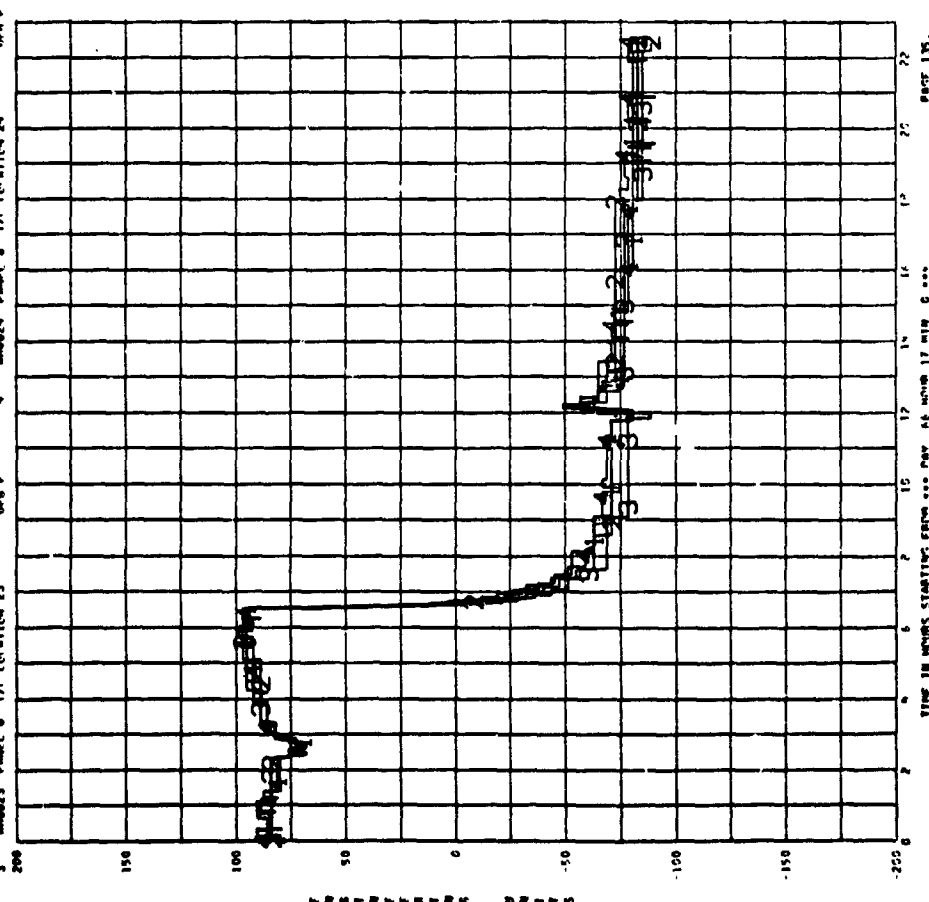


PHASE 1 TEST POINTS 5, 8, 10, 12 AND 17.
 DEG F DEG F
 1 00025 PANEL 8 T/F LOCATION 25
 2 00026 PANEL 8 T/F LOCATION 26
 3 00027 PANEL 8 T/F LOCATION 27
 4 00028 PANEL 8 T/F LOCATION 28



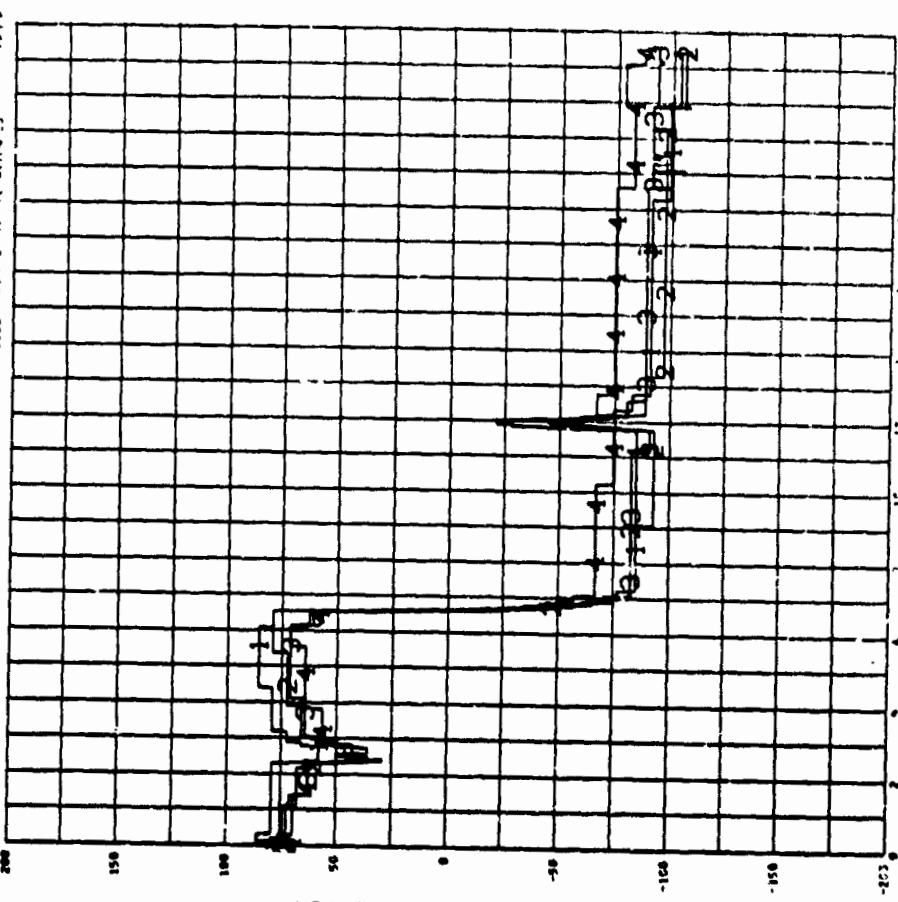
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PHASE 1 TEST POINTS 5, 8, 10, 12 AND 17.
 DEG F DEG F
 1 00021 PANEL 8 T/F LOCATION 21
 2 00022 PANEL 8 T/F LOCATION 22
 3 00023 PANEL 8 T/F LOCATION 23
 4 00024 PANEL 8 T/F LOCATION 24



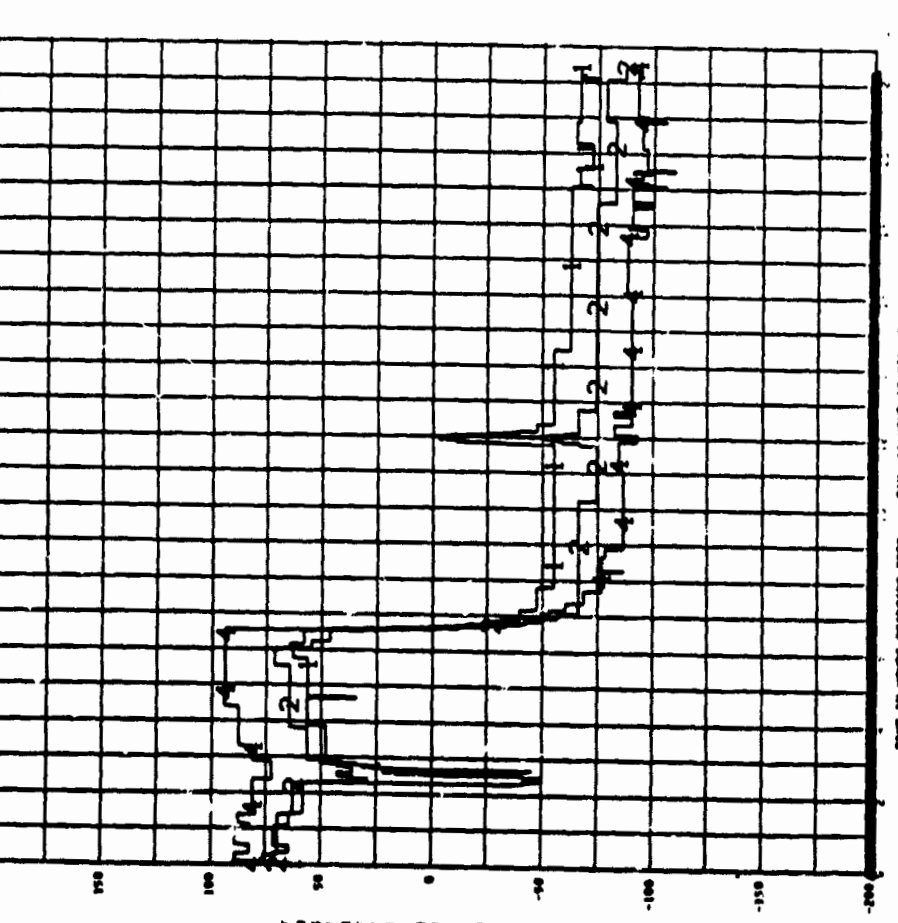
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1 AMB330 PANEL 0 T/C LOCATION 30
 2 AMB331 PANEL 0 T/C LOCATION 31
 3 AMB332 PANEL 0 T/C LOCATION 32
 4 AMB333 PANEL 0 T/C LOCATION 33
 5 AMB334 PANEL 0 T/C LOCATION 34



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1 AMB330 PANEL 0 T/C LOCATION 30
 2 AMB331 PANEL 0 T/C LOCATION 31
 3 AMB332 PANEL 0 T/C LOCATION 32
 4 AMB333 PANEL 0 T/C LOCATION 33
 5 AMB334 PANEL 0 T/C LOCATION 34



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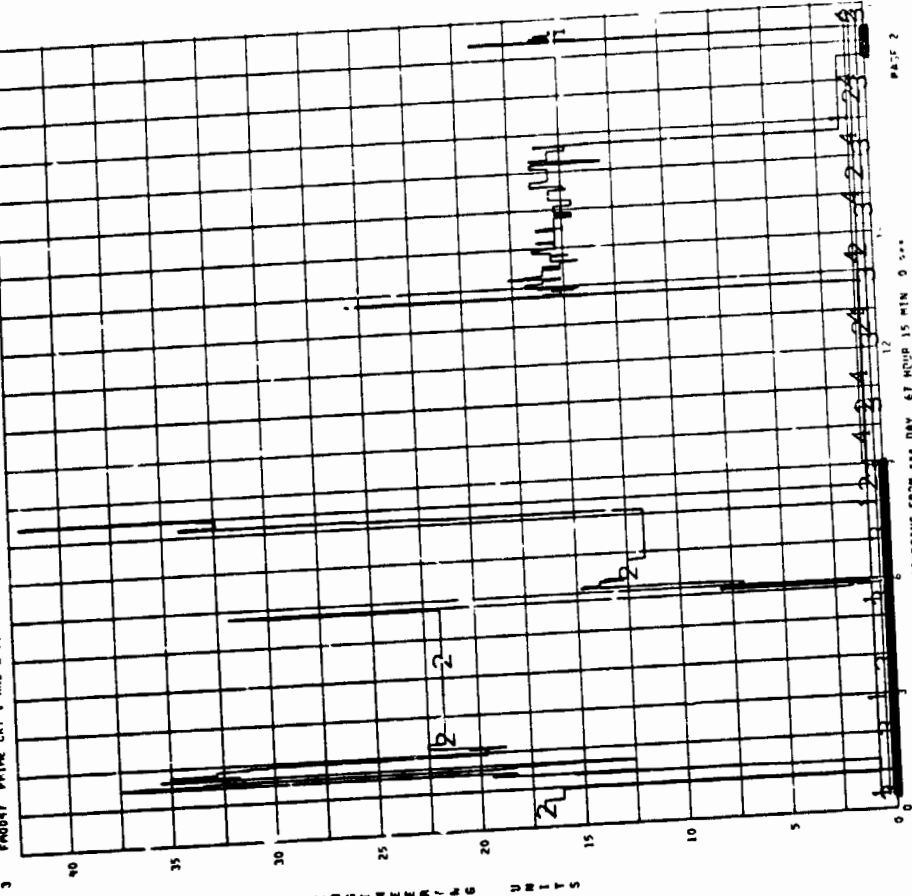
TEST GROUP C

67:15:25 - 68:11:40

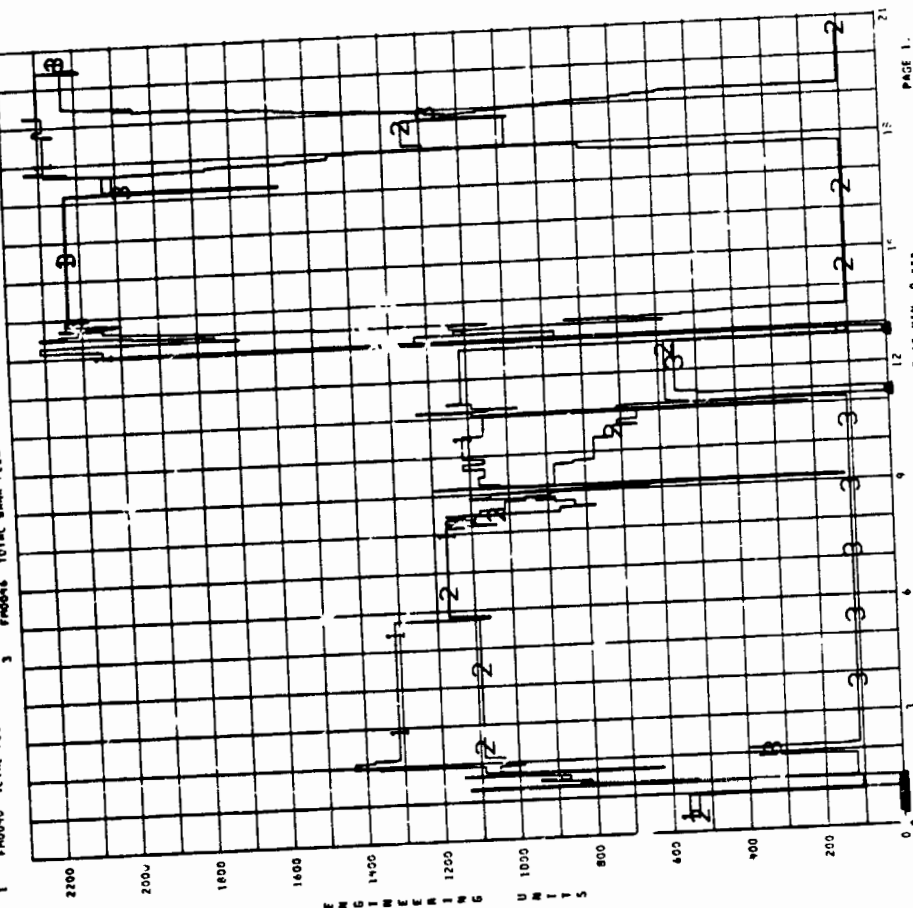
INCLUDES TEST POINTS

17A
18
19

1 FROD01 TOTAL PRIME FLOW LOW RANGE LBPH
 2 FROD02 TOTAL PRIME FLOW LOW RANGE LBPH
 3 FROD03 PRIME CKT 1 AND 2 LOW RANGE LBPH
 4 FROD04 TOTAL BANK FLOW LOW RANGE LBPH
 5 FROD05 PRIME CKT 1 AND 4 LOW RANGE LBPH

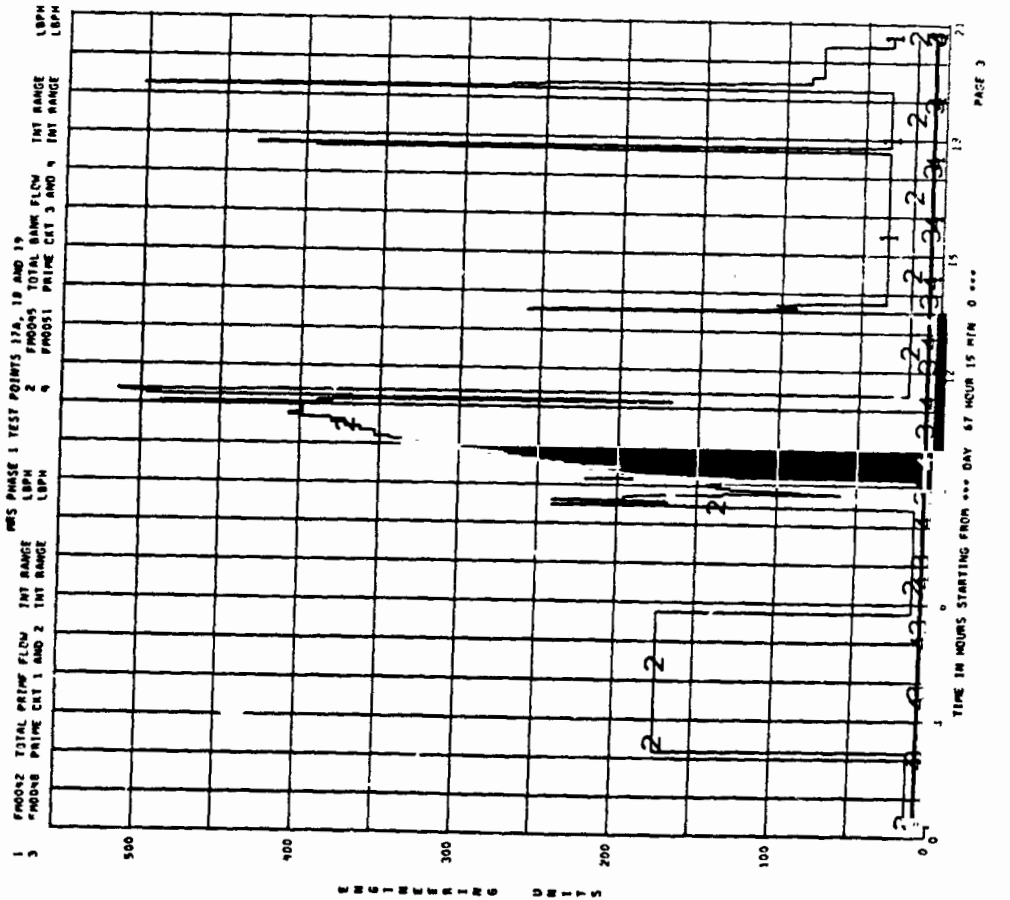
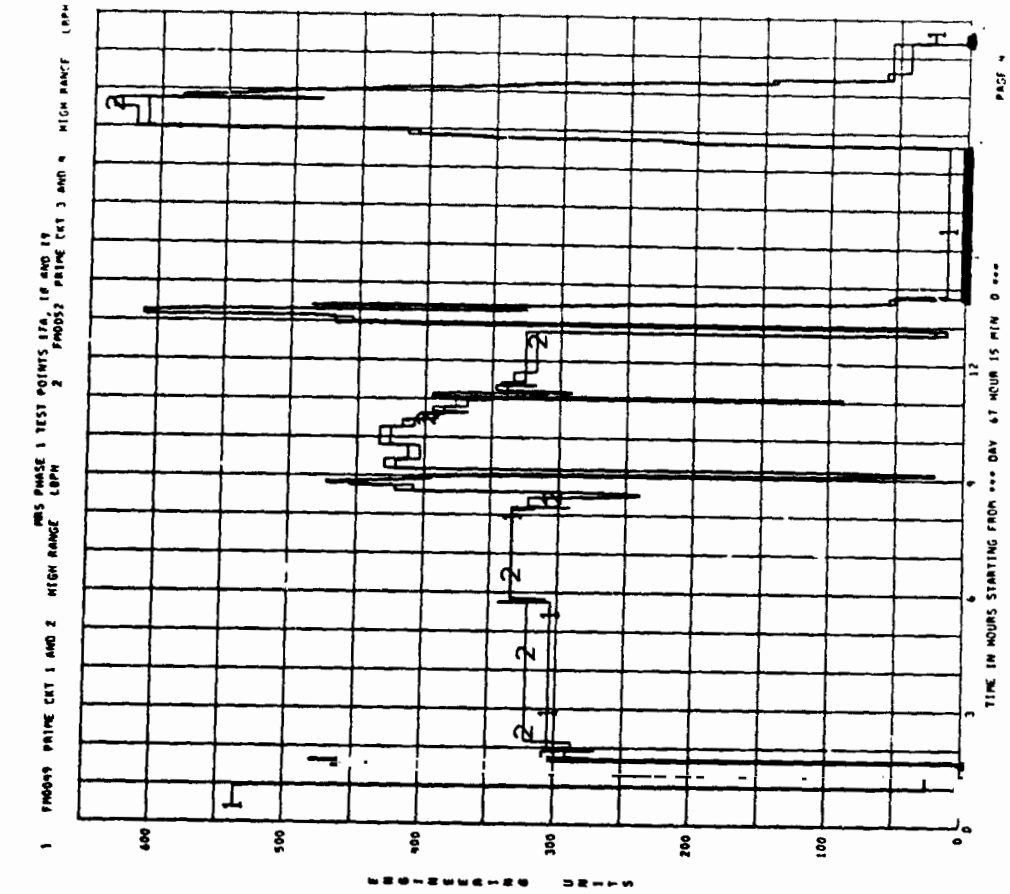


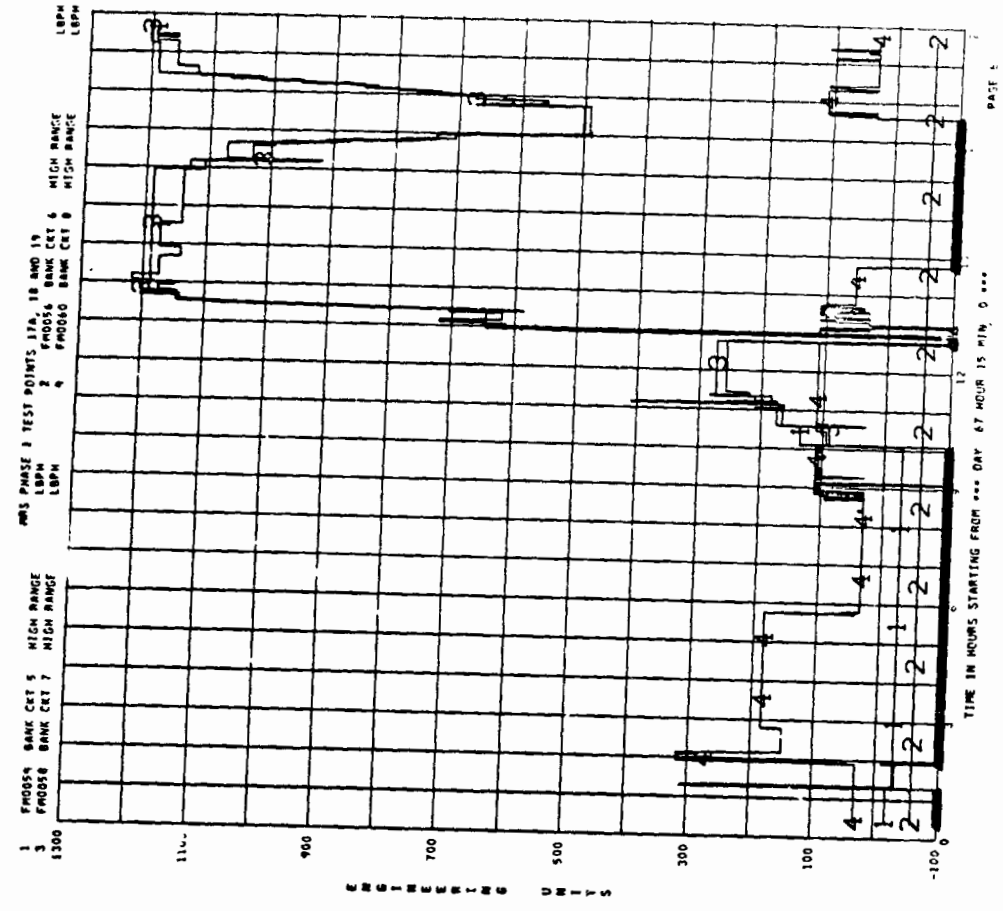
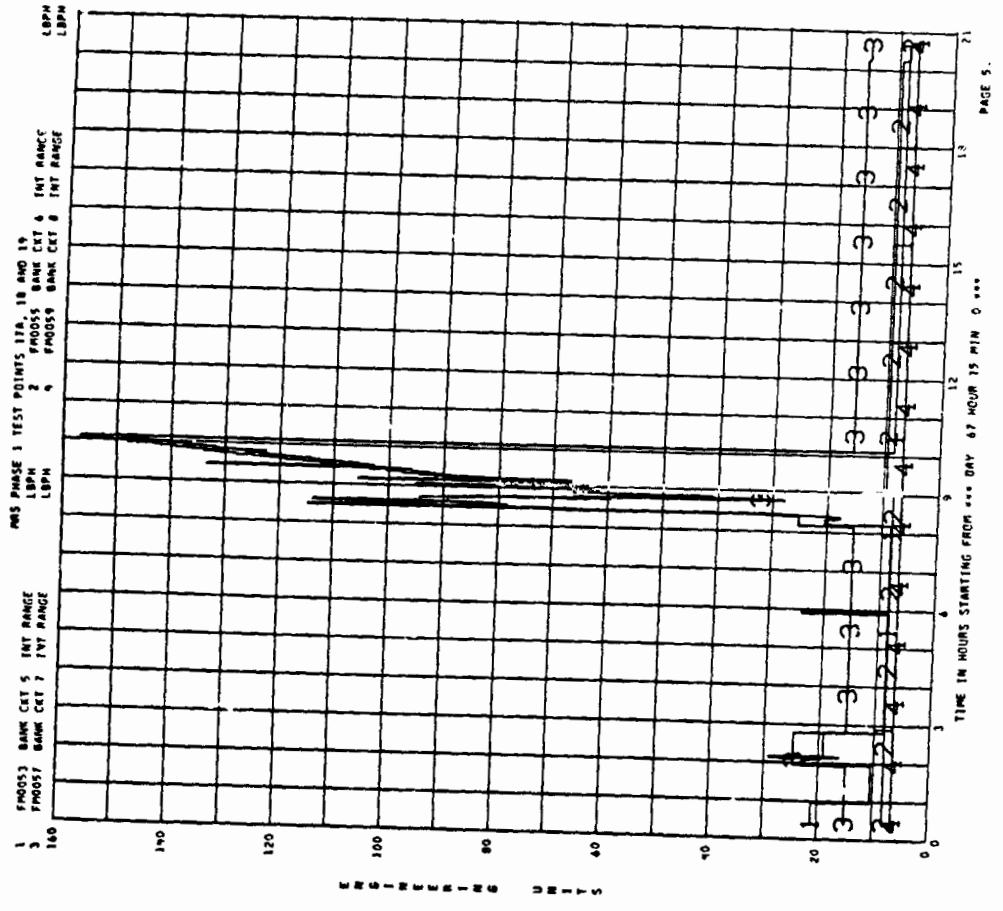
1 FROD00 TOTAL FLOW LBPH
 2 FROD01 TOTAL PRIME FLOW HIGH RANGE LBPH
 3 FROD02 TOTAL BANK FLOW HIGH RANGE LBPH
 4 FROD03 TOTAL PRIME FLOW HIGH RANGE LBPH
 5 FROD04 TOTAL BANK FLOW HIGH RANGE LBPH

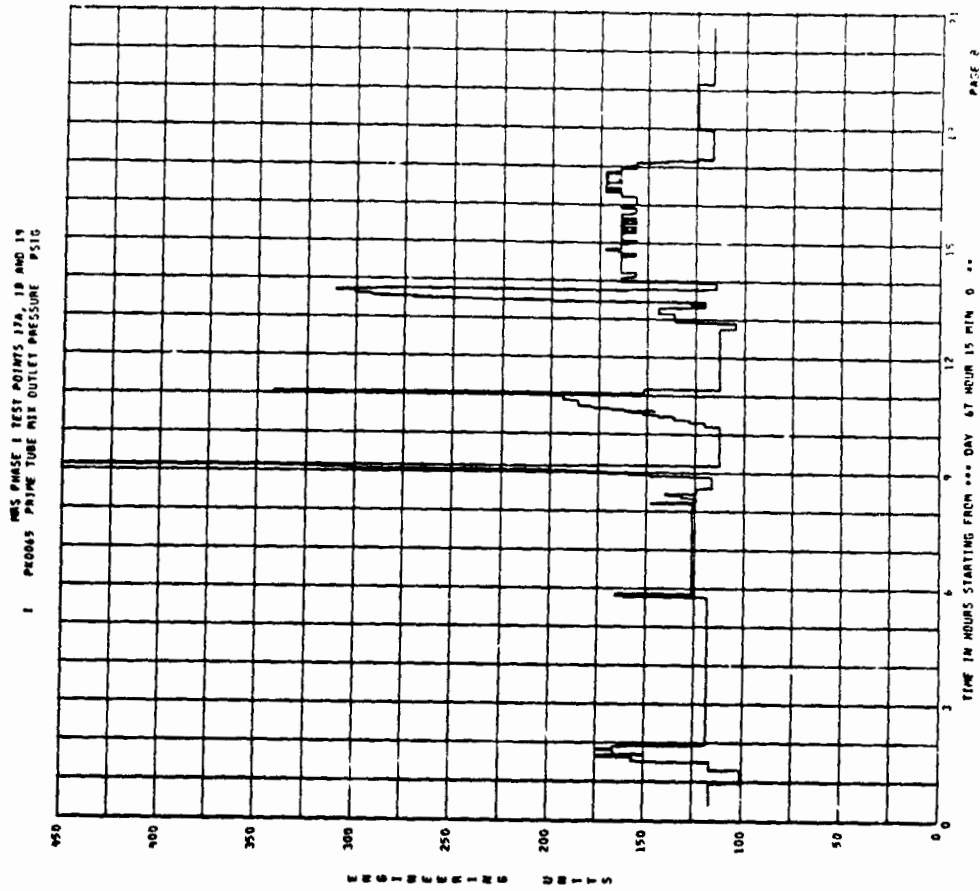
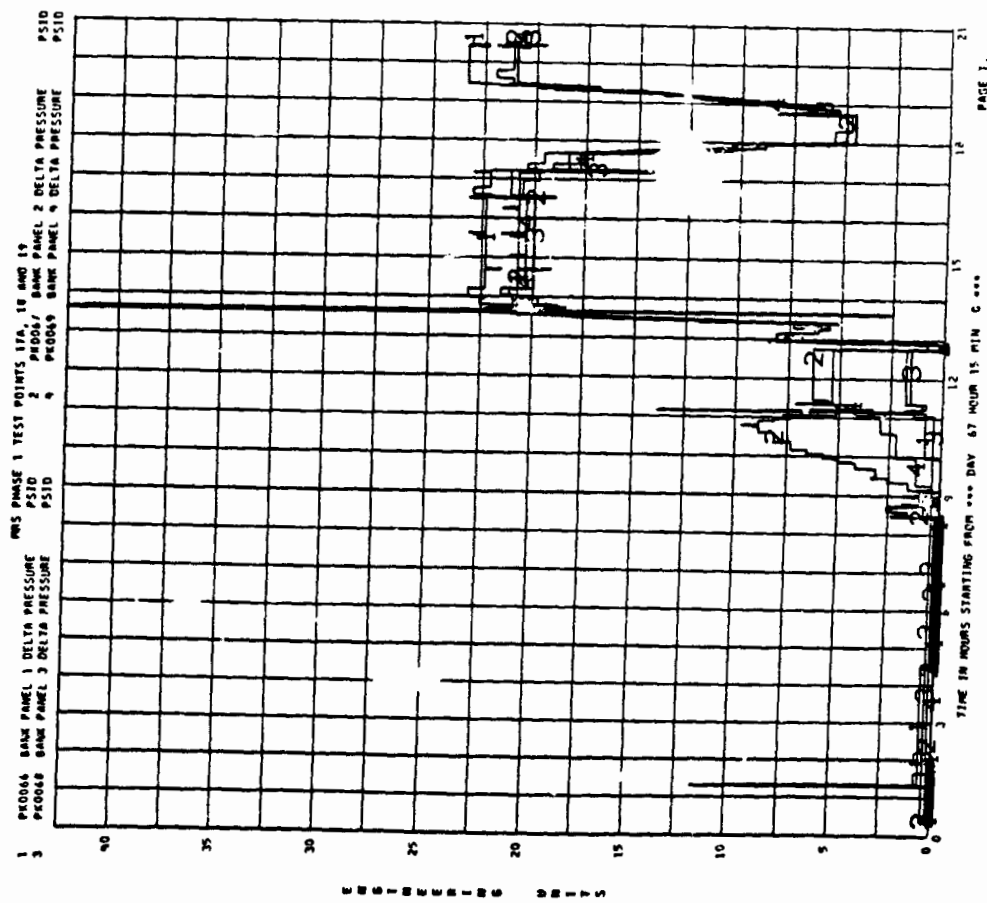


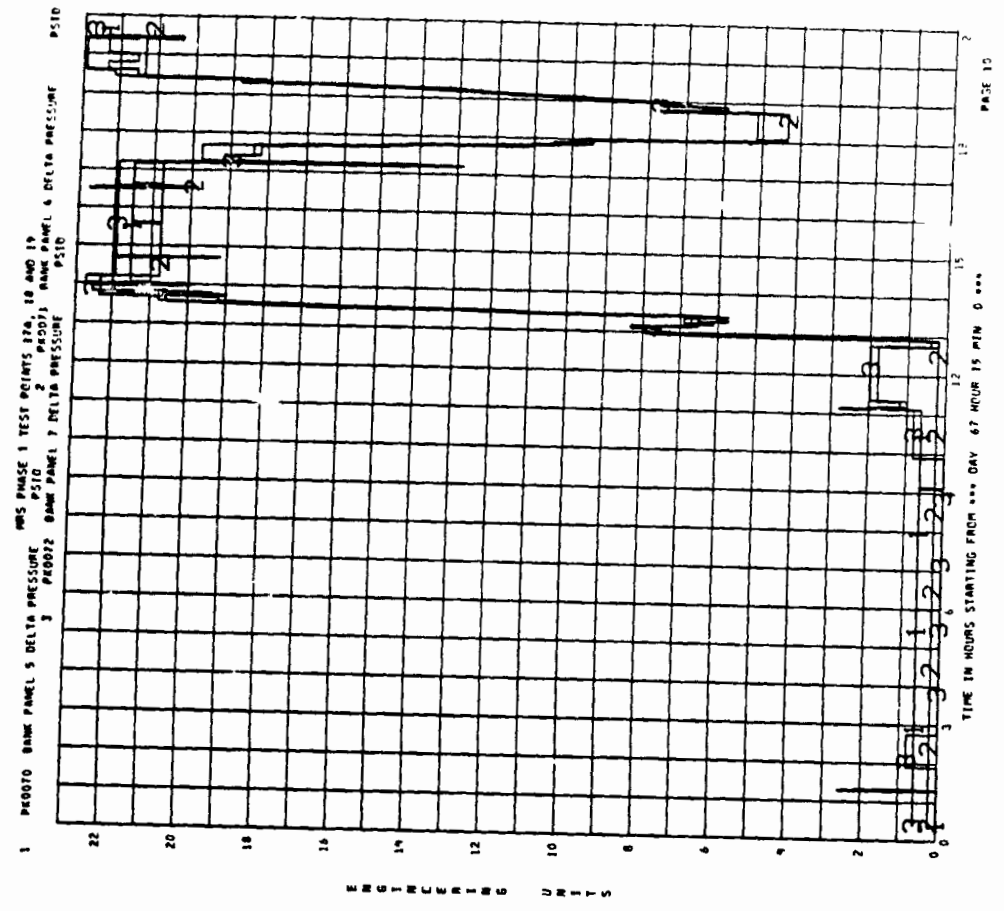
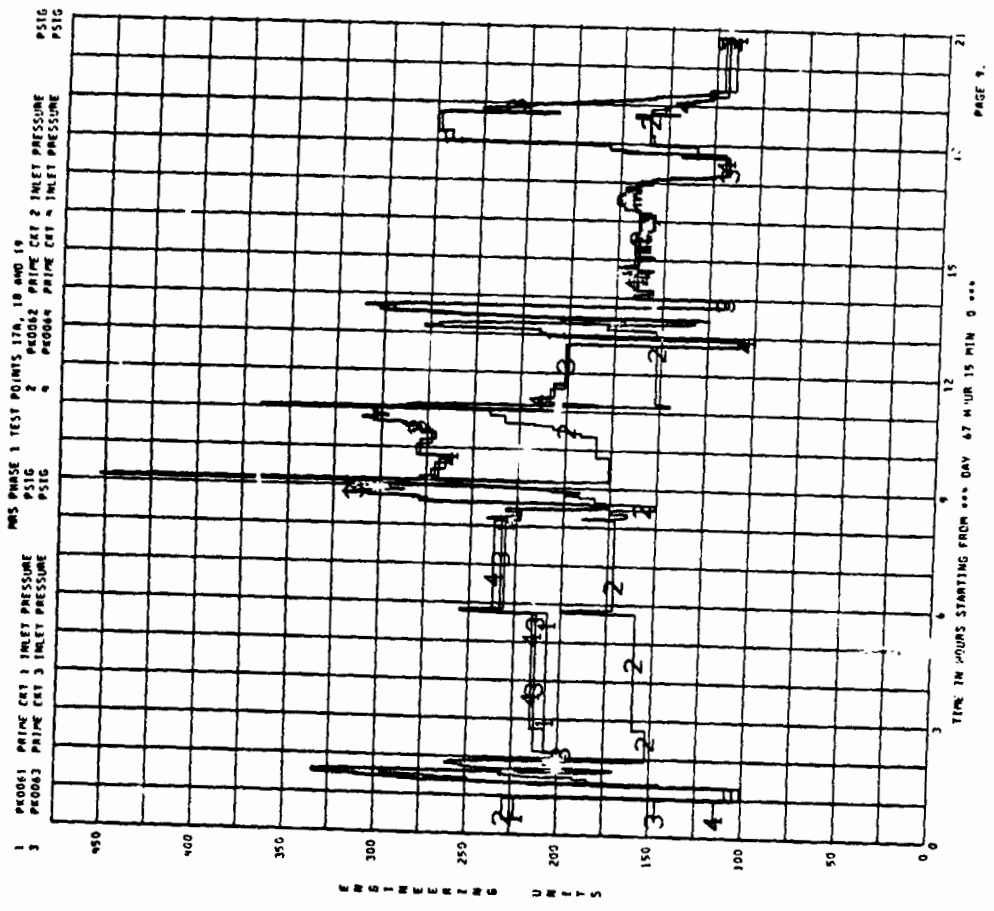
ENGINEERING UNITS

ENGINEERING UNITS

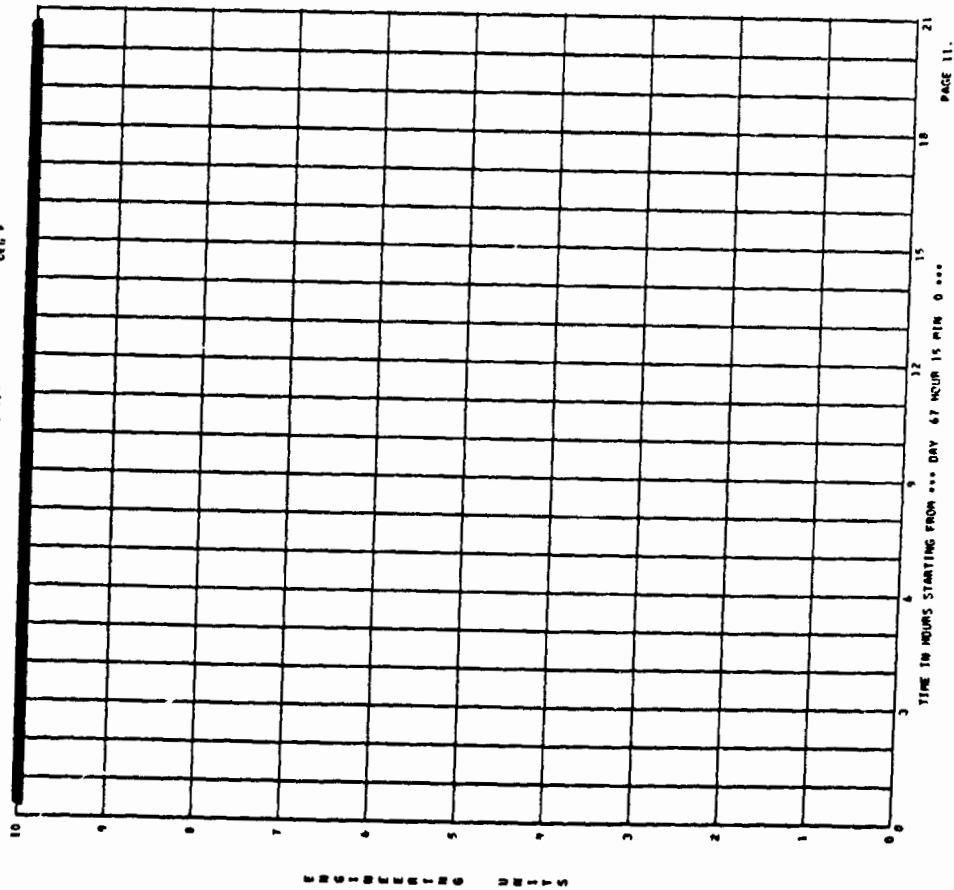






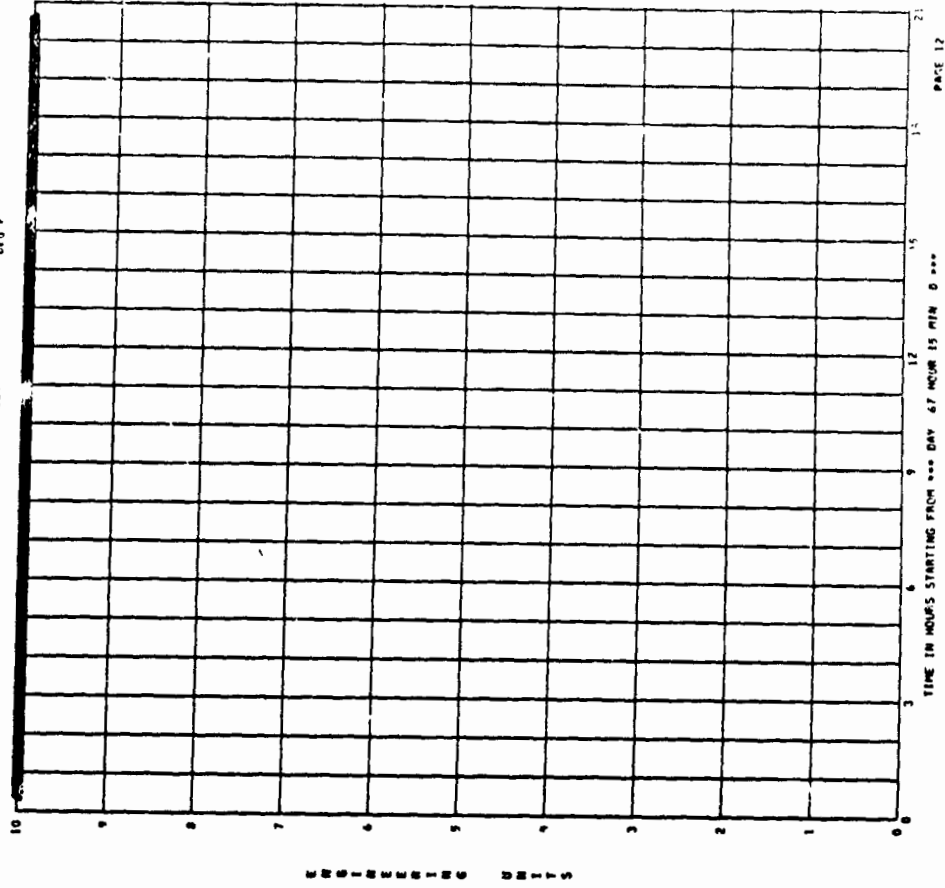


1 RMS PHASE 1 TEST POINTS 17A, 18 AND 19
A10002 BANK SYSTEM INLET DEG F



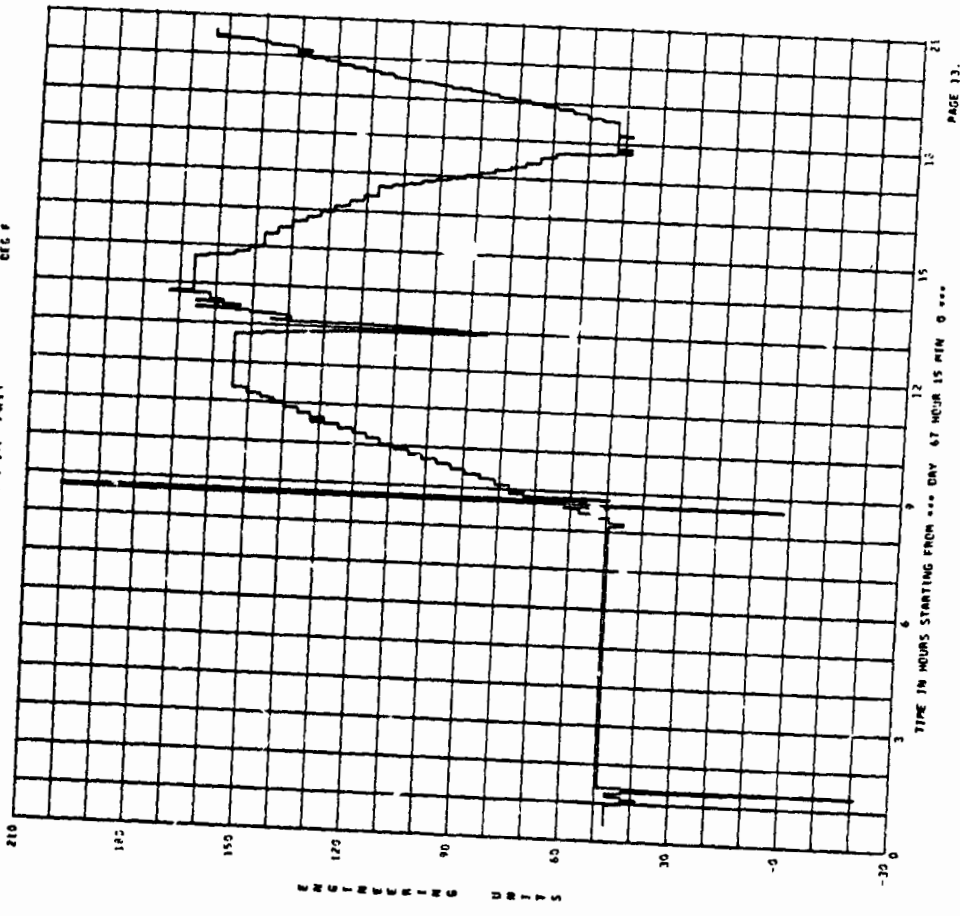
PAGE 11.

1 RMS PHASE 1 TEST POINTS 17A, 18 AND 19
A10002 BANK SYSTEM INLET DEG F

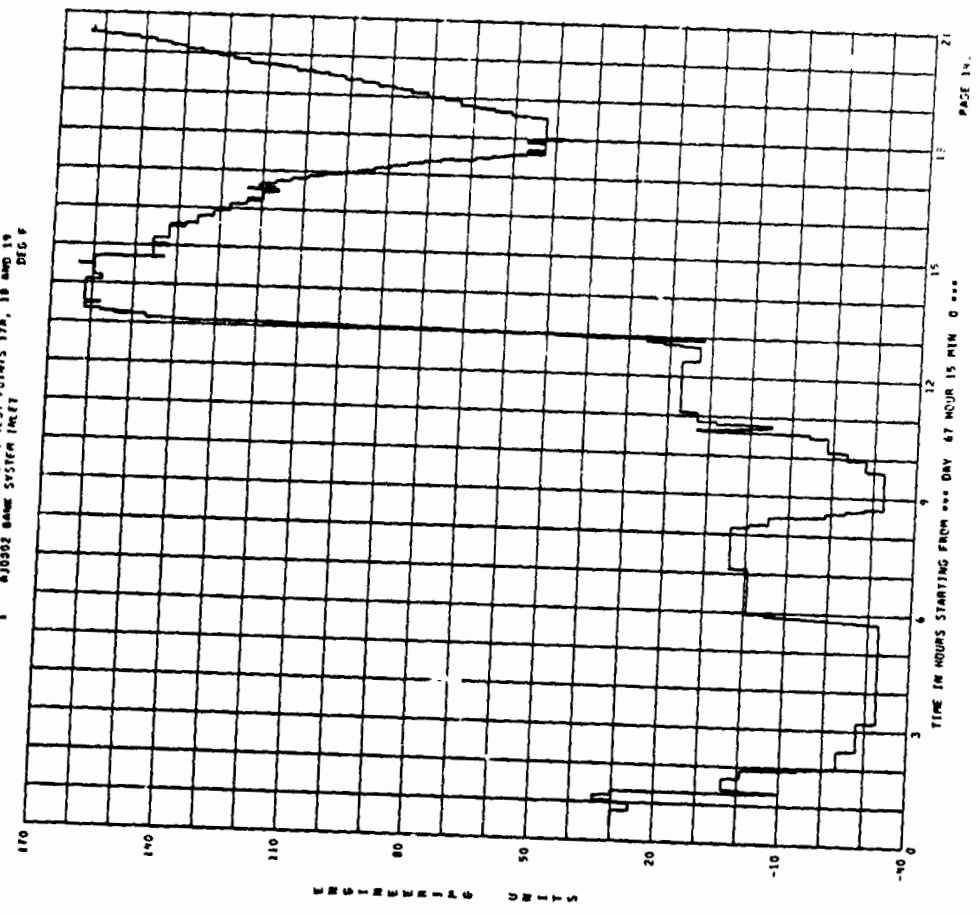


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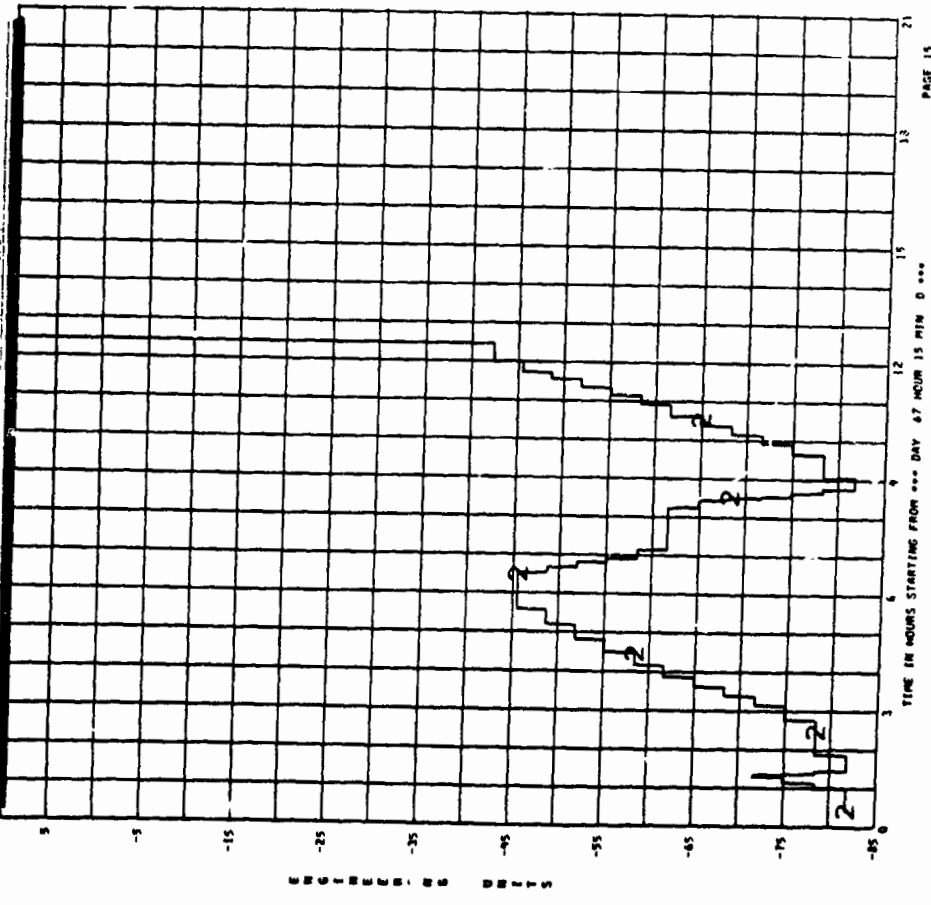
1 A10302 BANK SYSTEM INLET
WRS PHASE 3 TEST POINTS 310, 10 AND 19
DEC 6



1 A10302 BANK SYSTEM INLET
WRS PHASE 1 TEST POINTS 17A, 10 AND 19
DEC 6

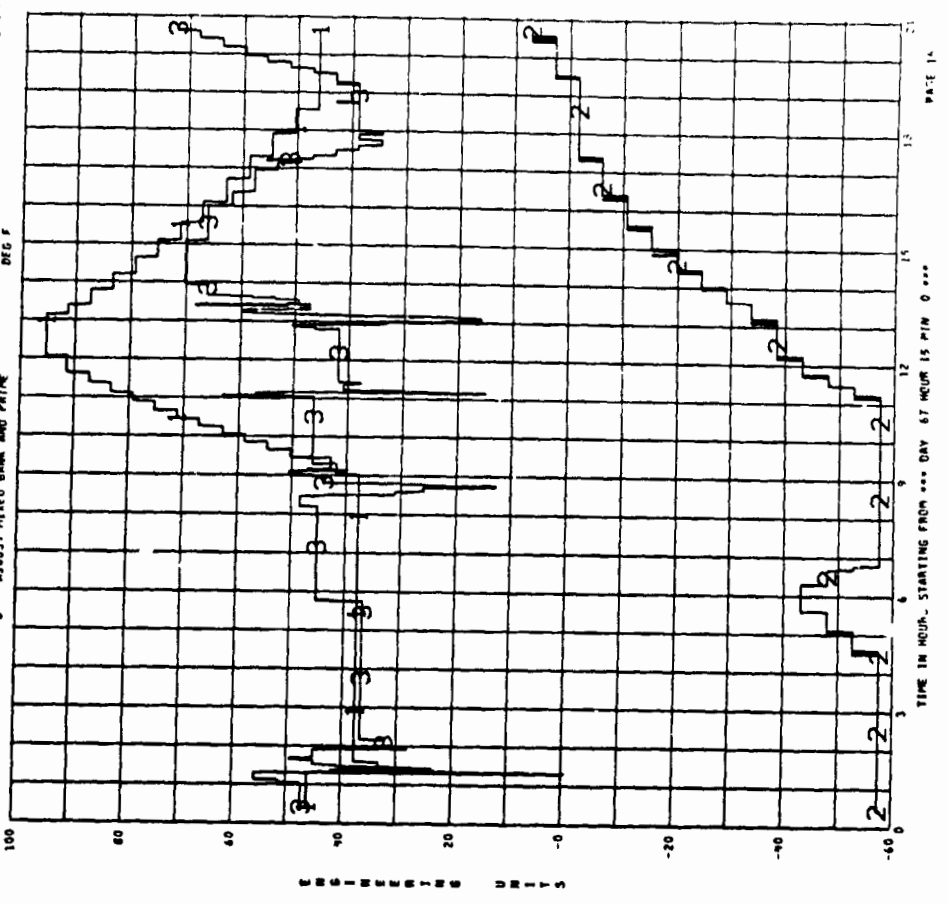


1 A10019 PRIME TUBES OUTLET MIX IN CM DEG F
 2 A10034 BANK TUBES OUTLET MIX IN CM DEG F
 3 A10039 MIXED BANK AND PRIME DEG F

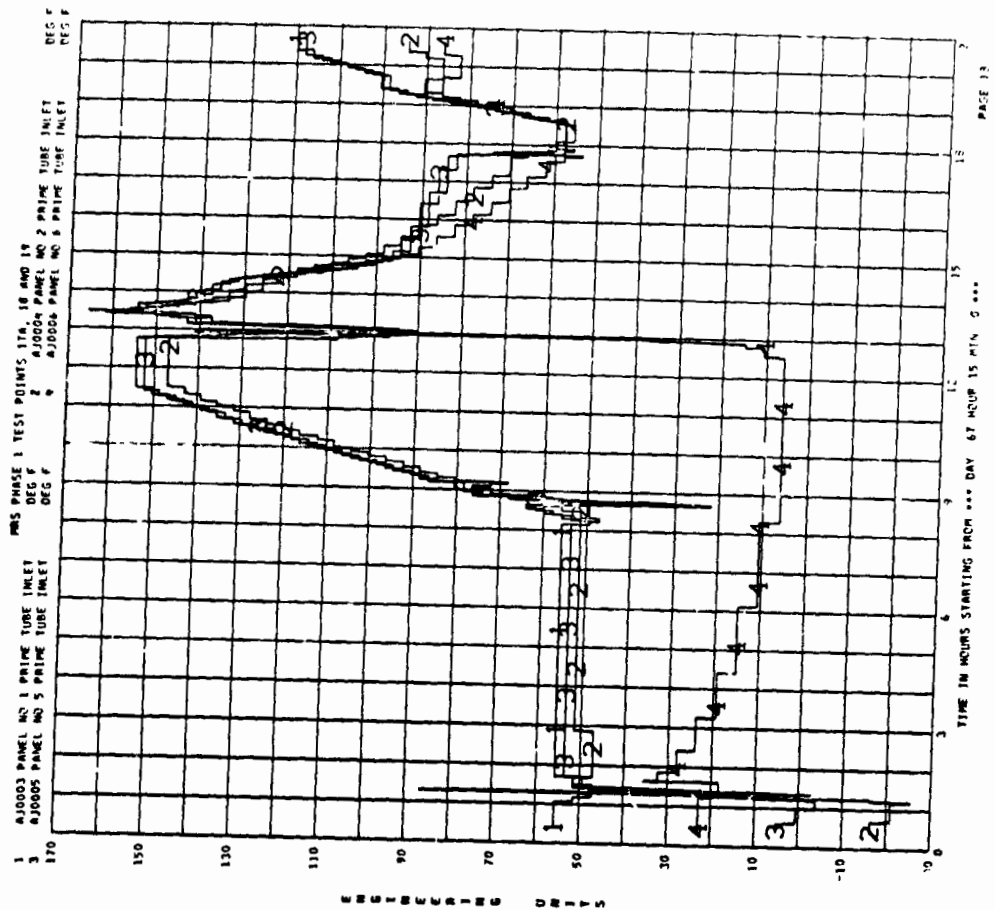
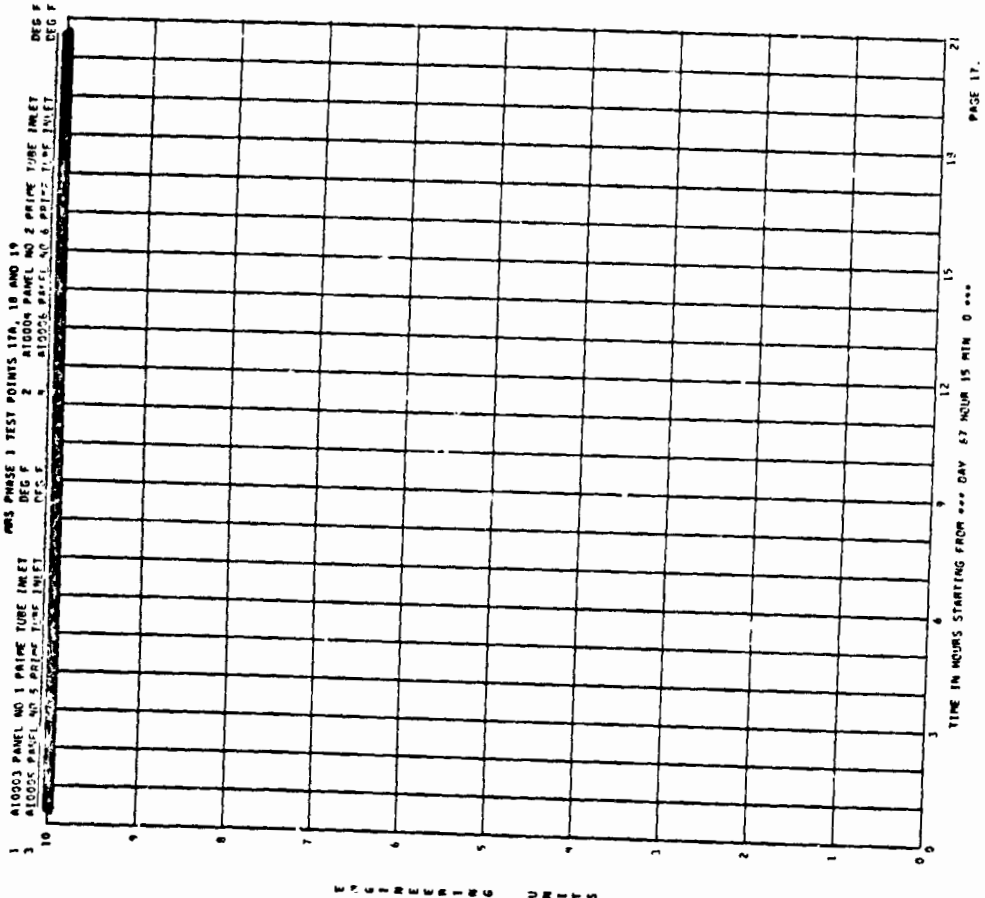


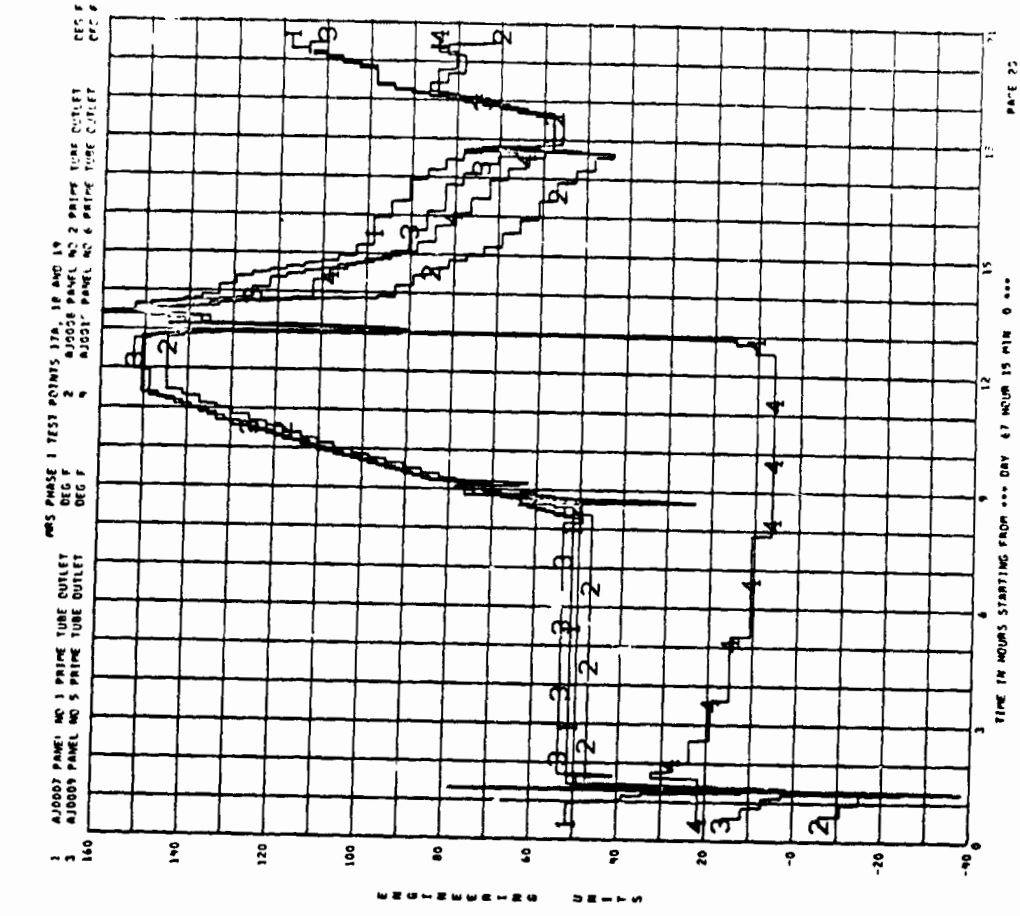
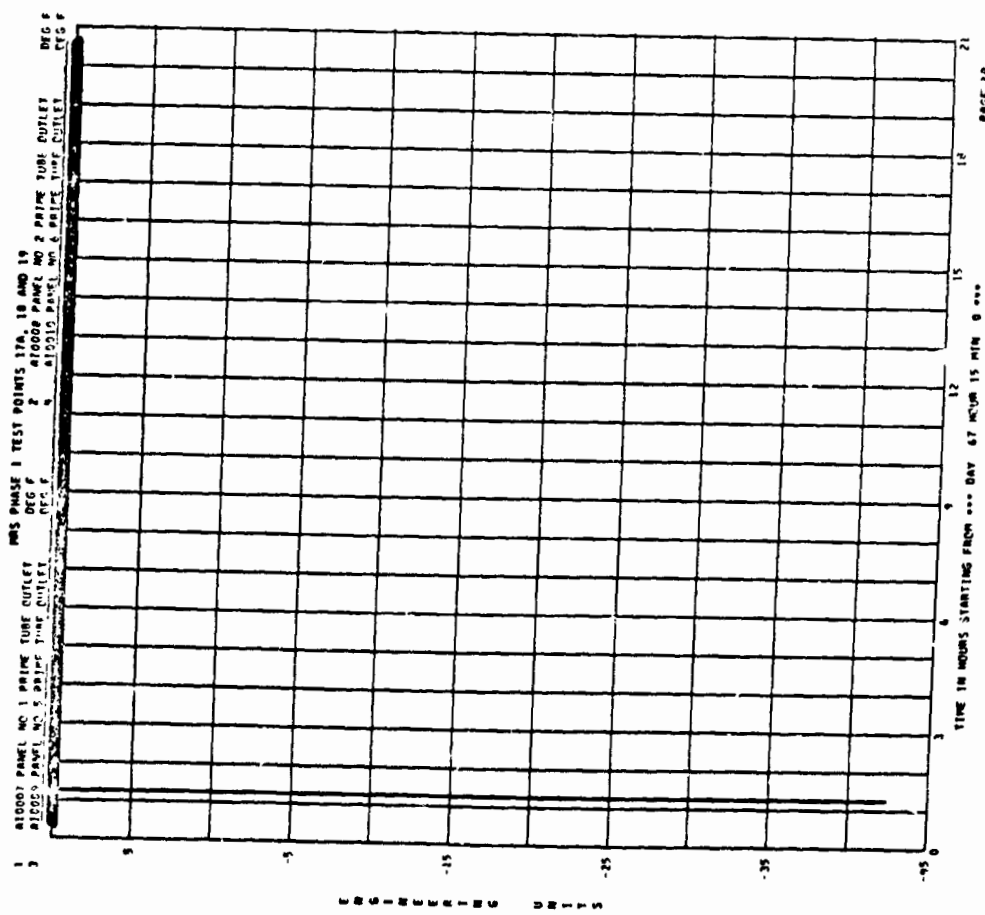
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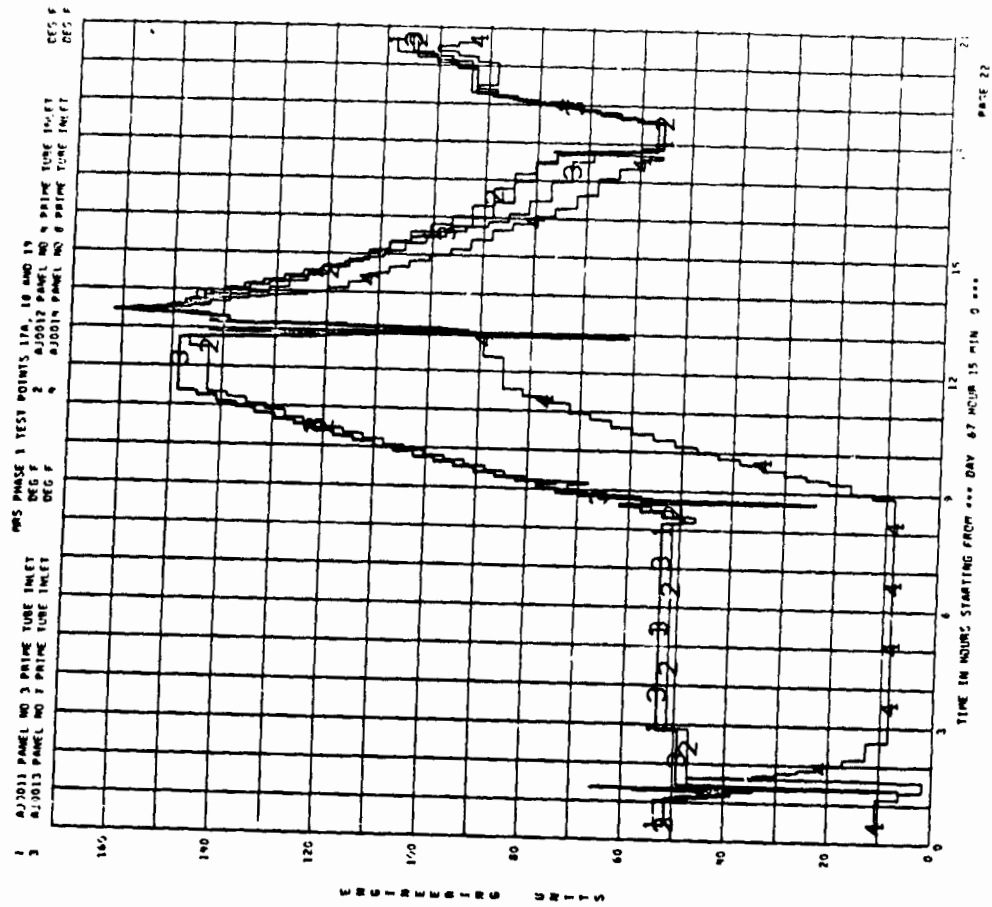
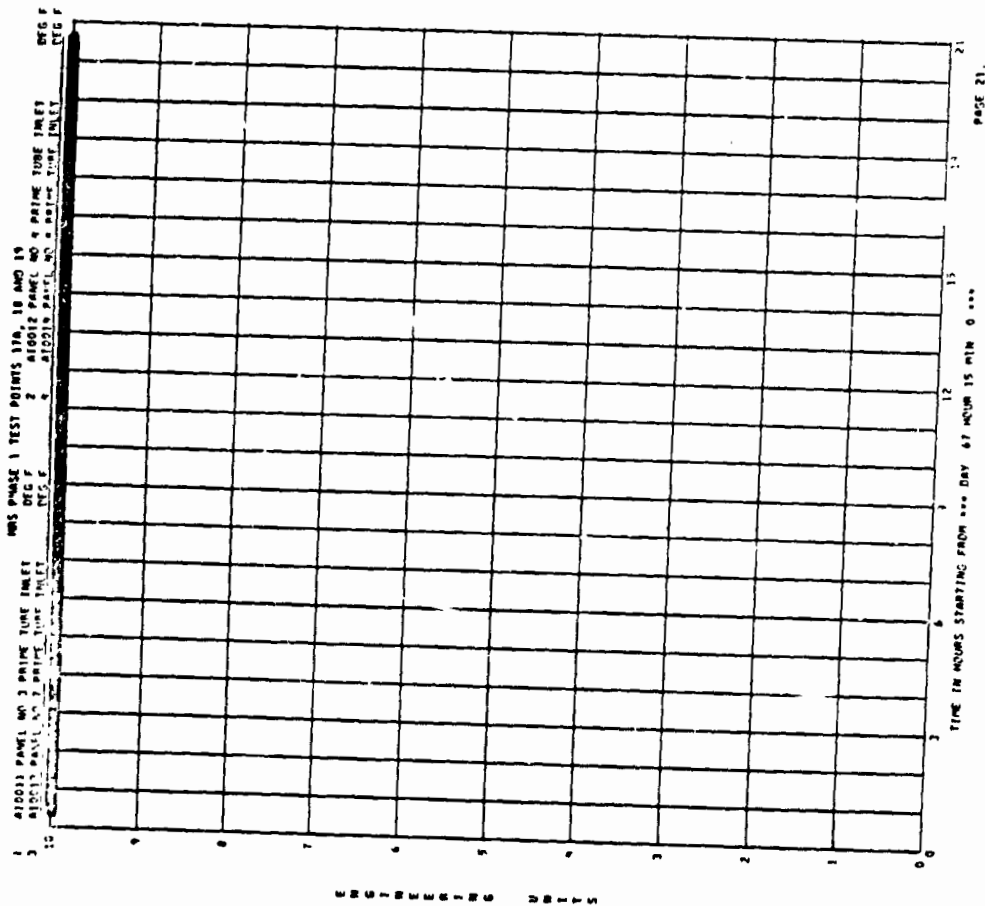
1 A10019 PRIME TUBES OUTLET MIX IN CM DEG F
 2 A10034 BANK TUBES OUTLET MIX IN CM DEG F
 3 A10039 MIXED BANK AND PRIME DEG F

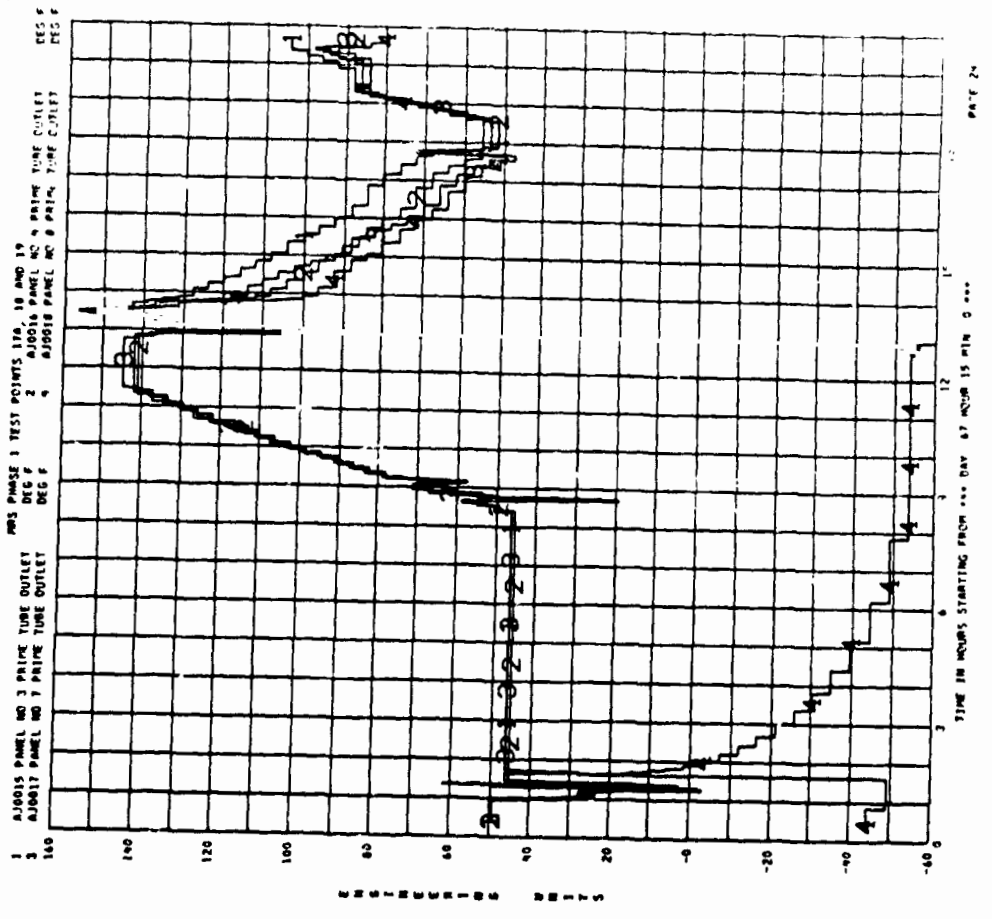
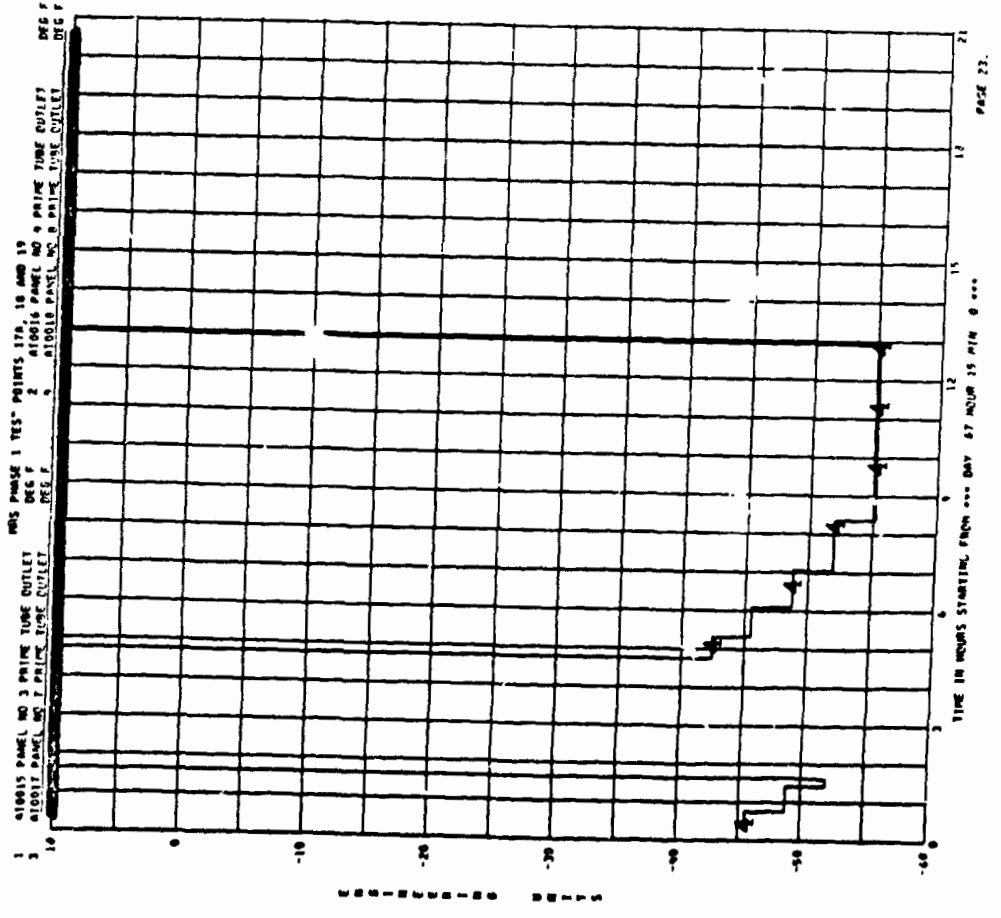


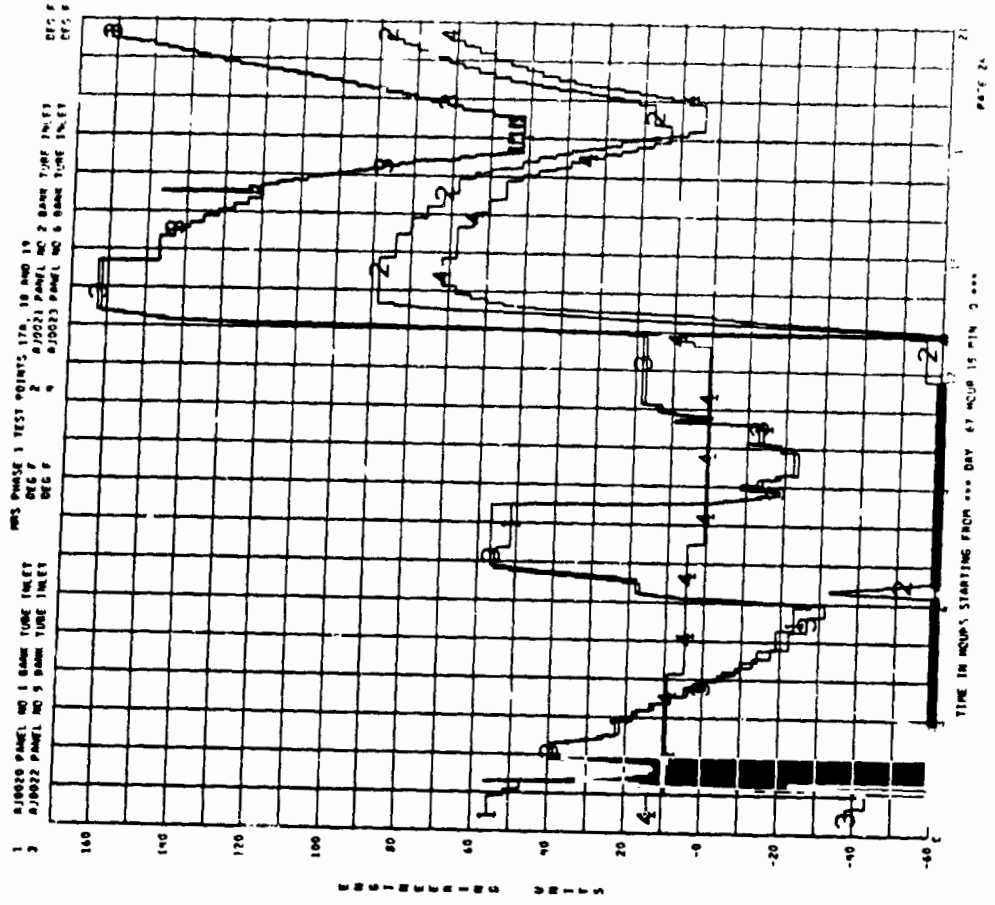
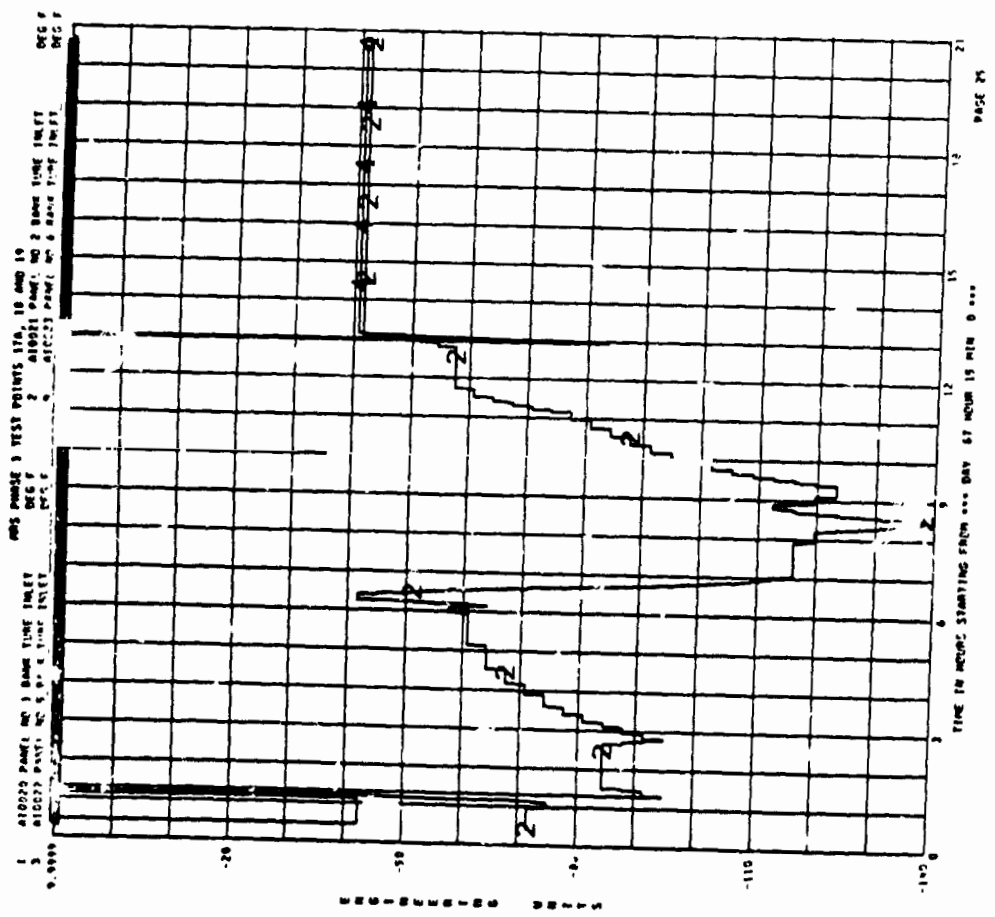
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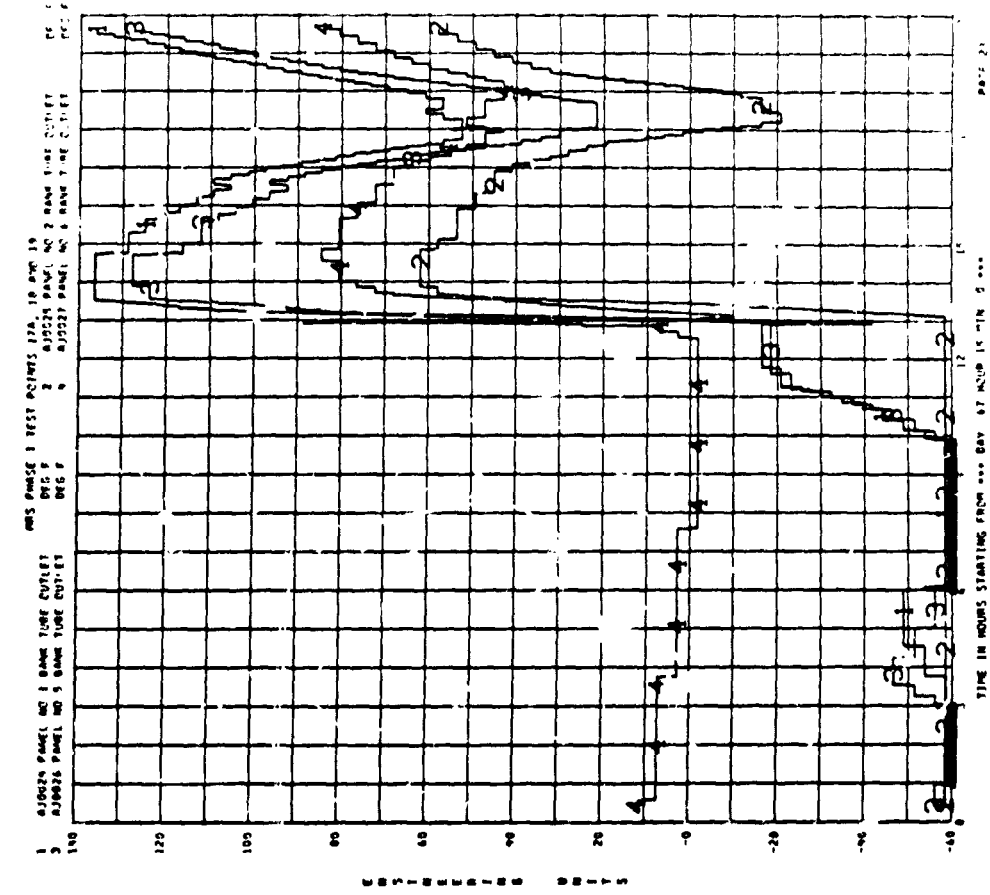
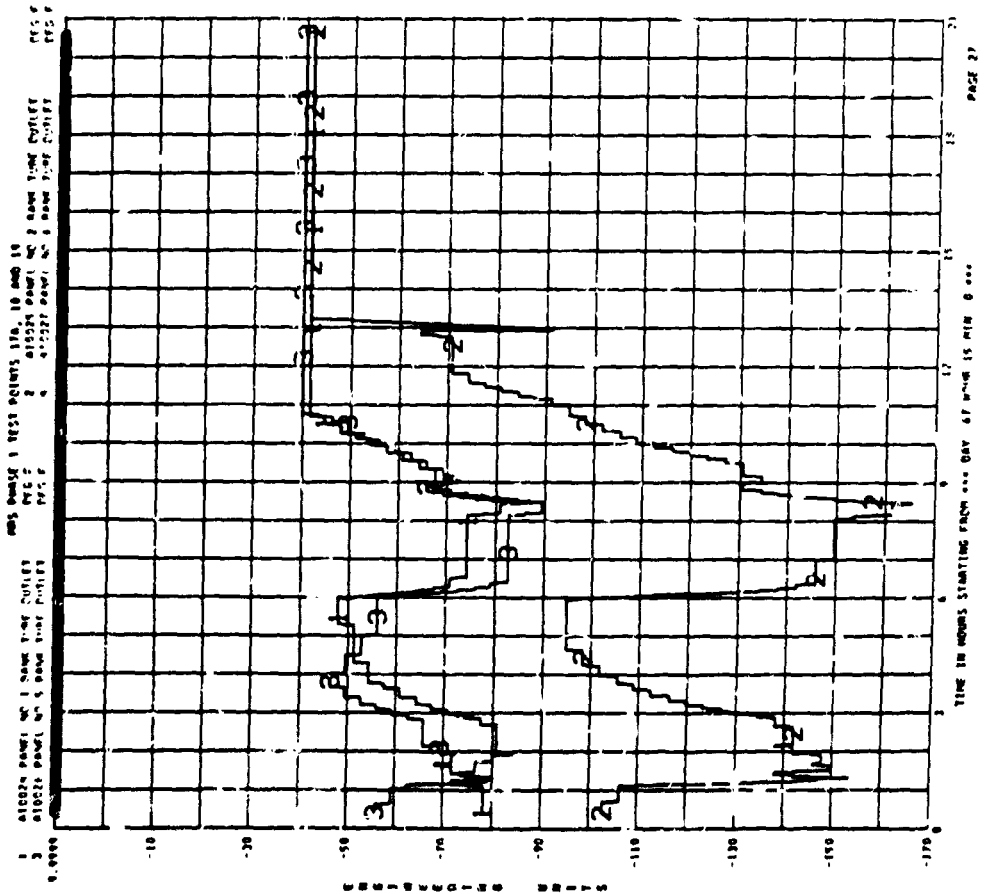


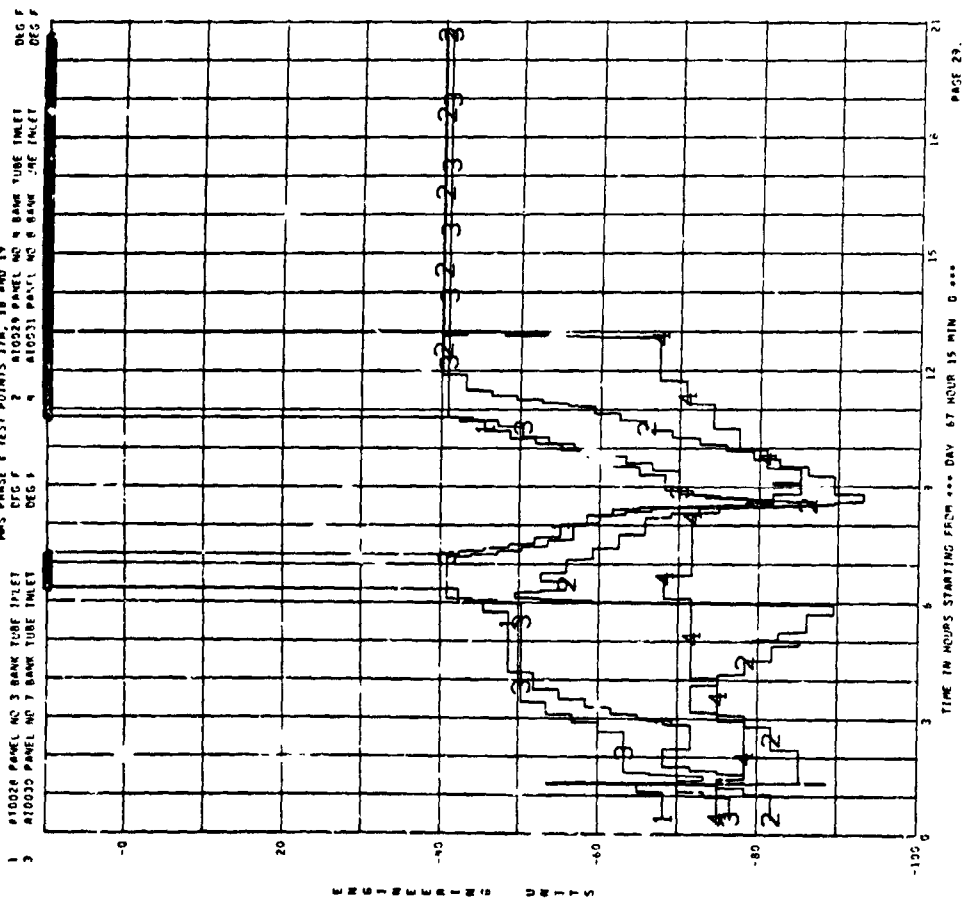
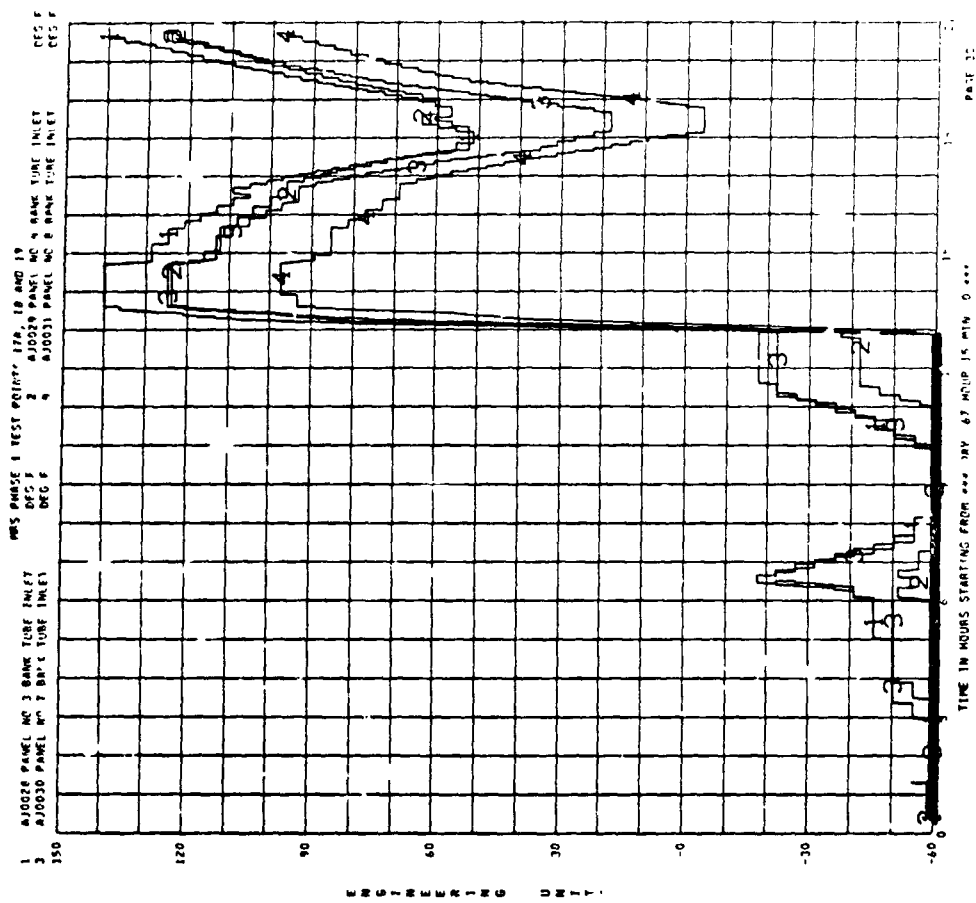


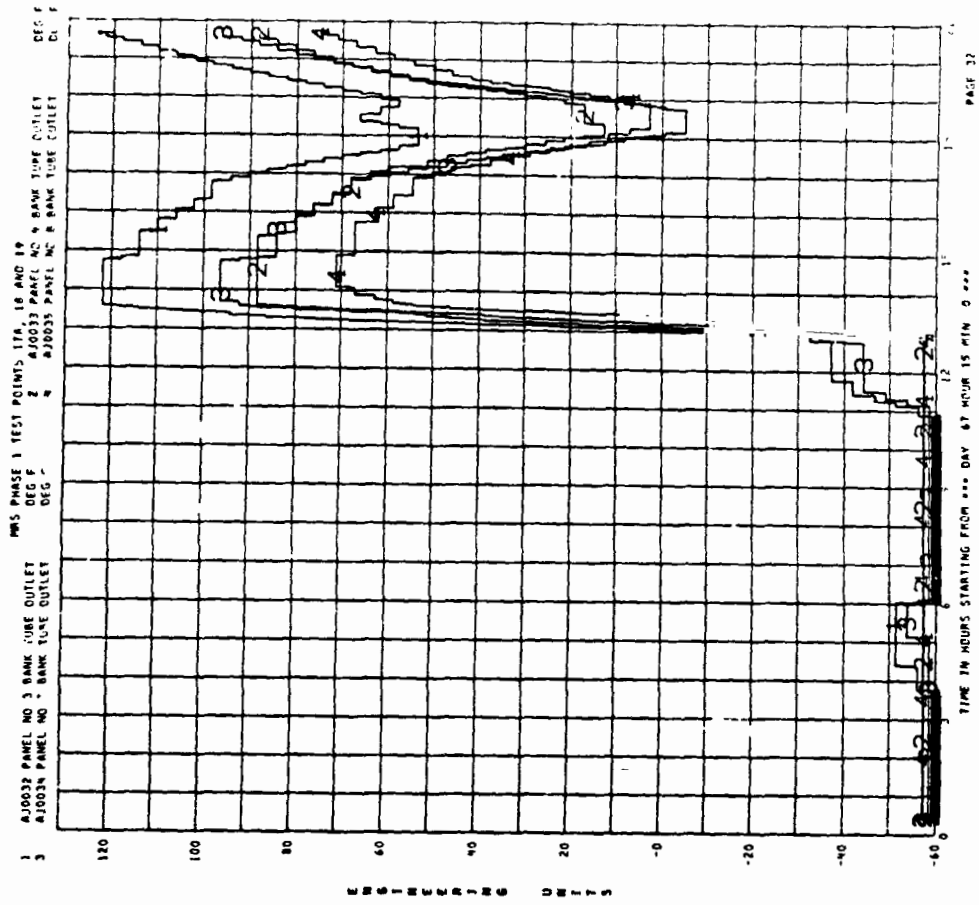
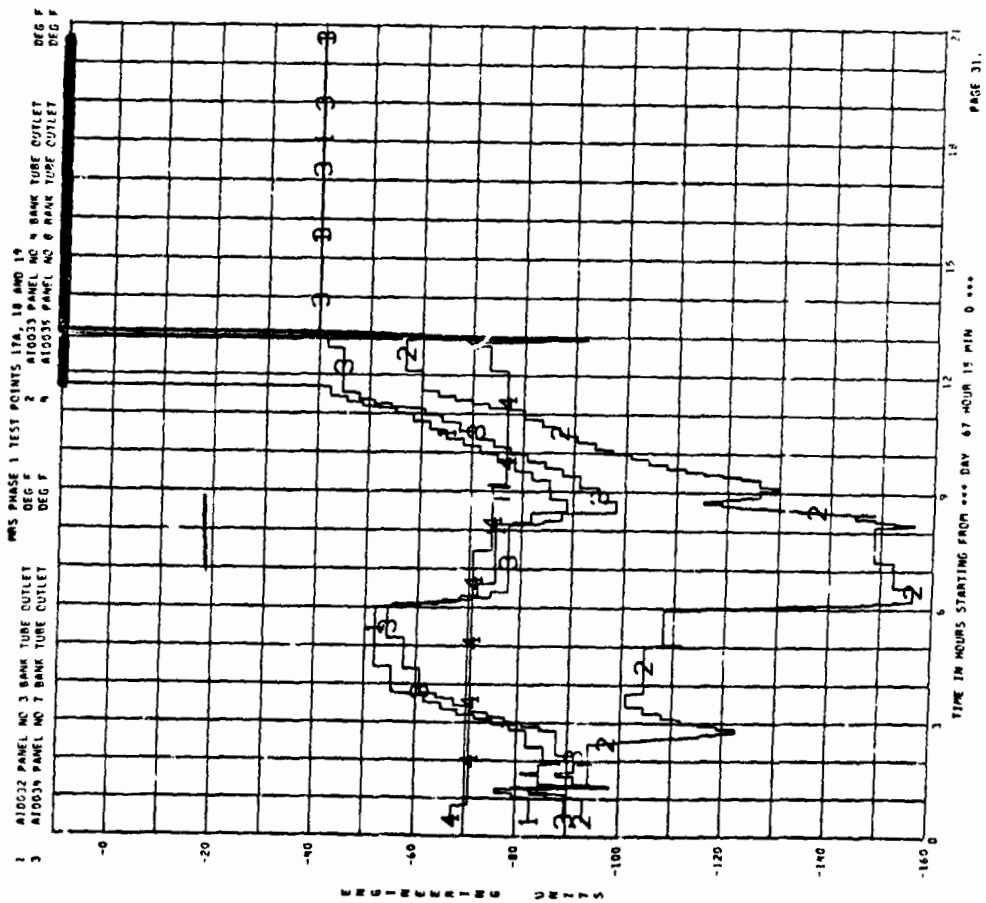


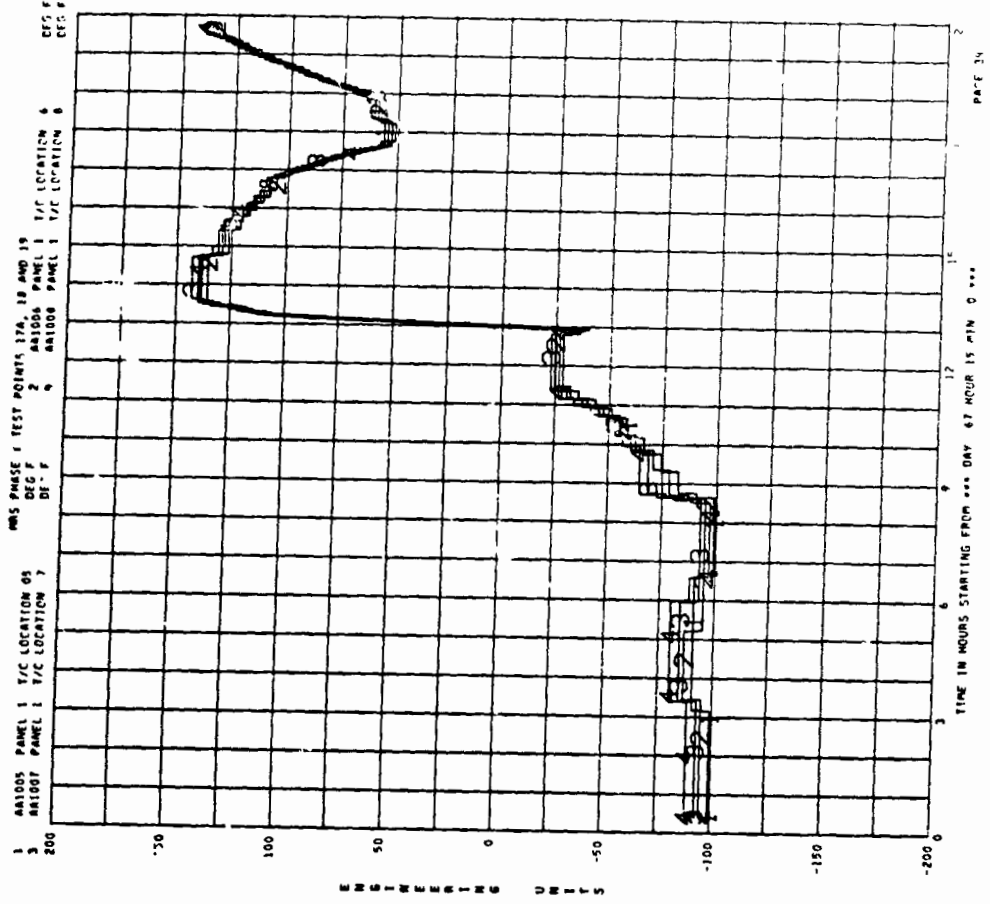
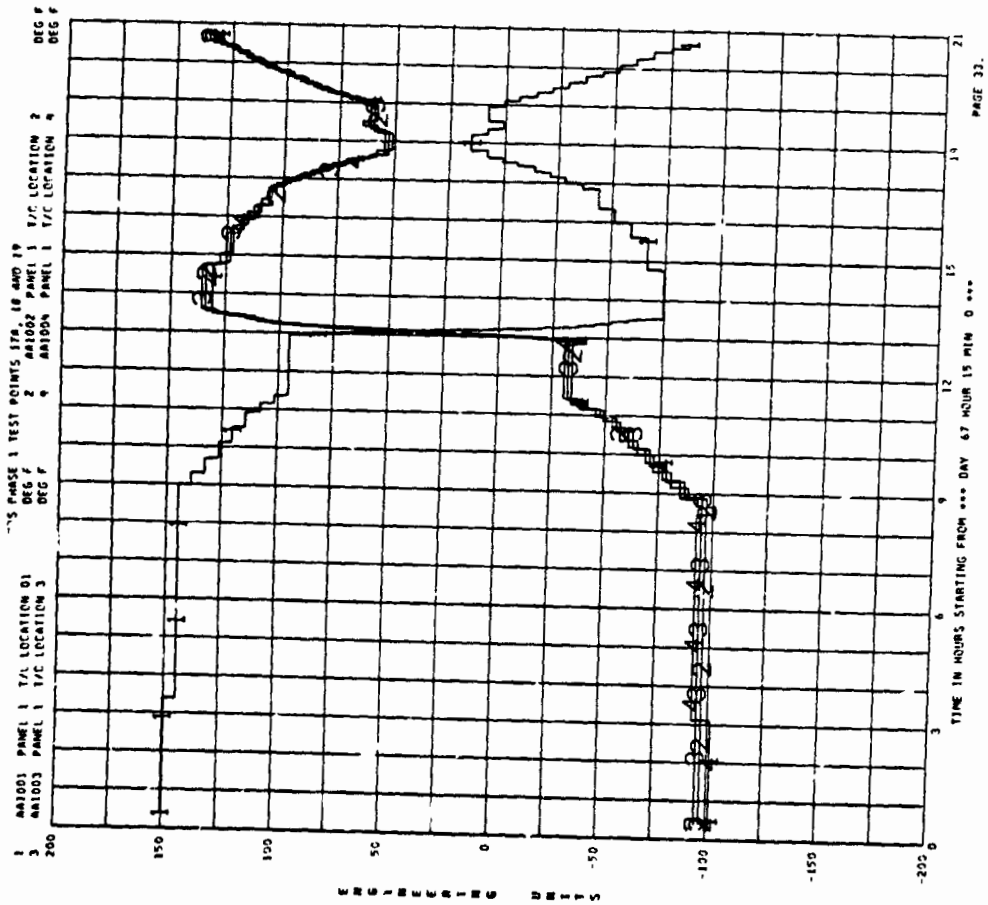


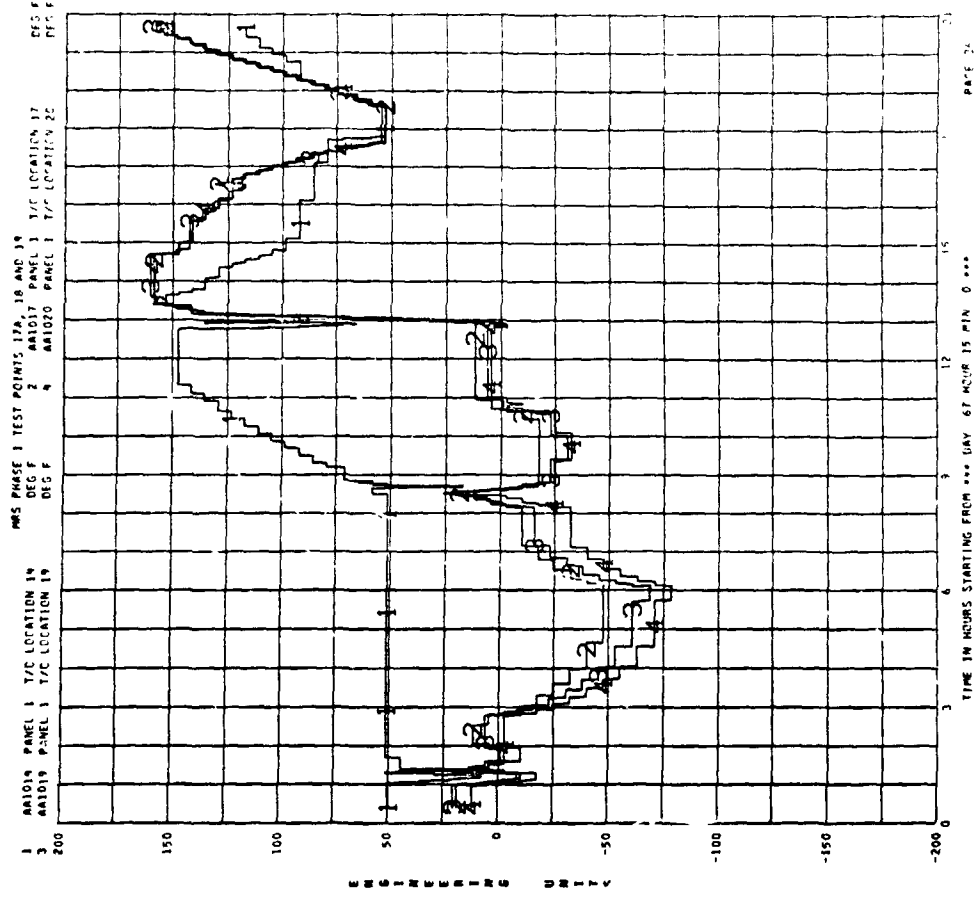
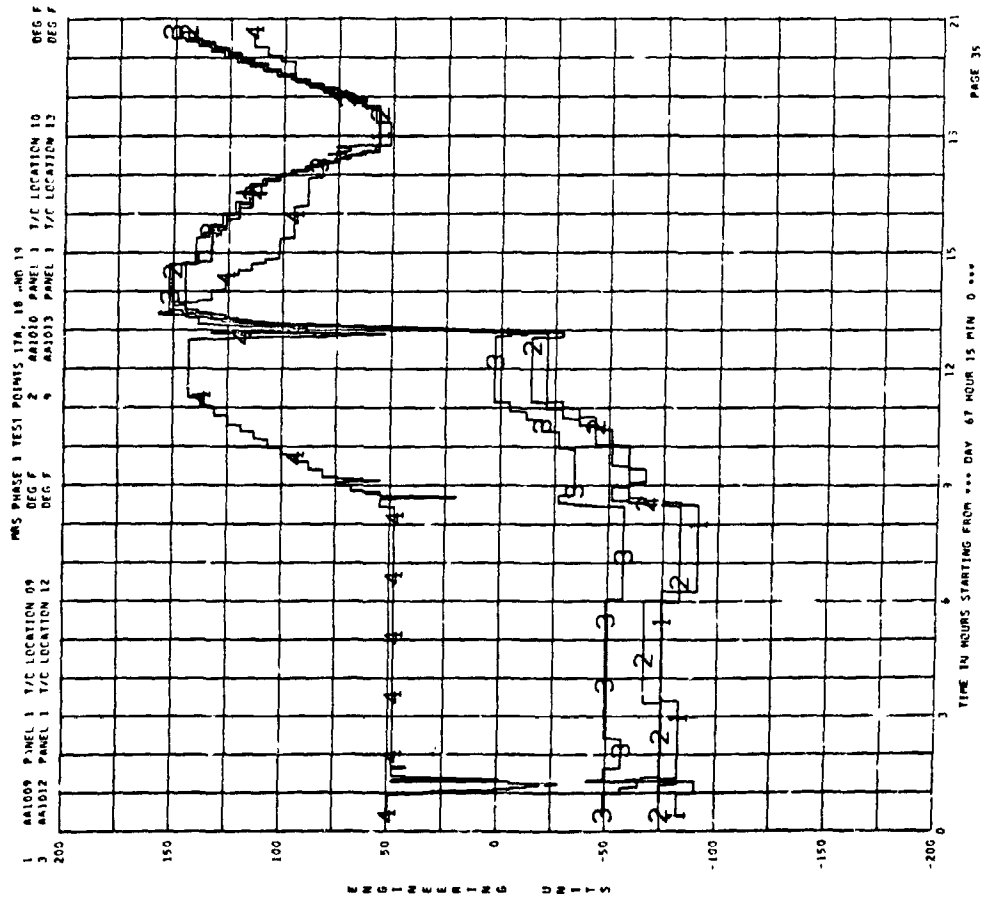


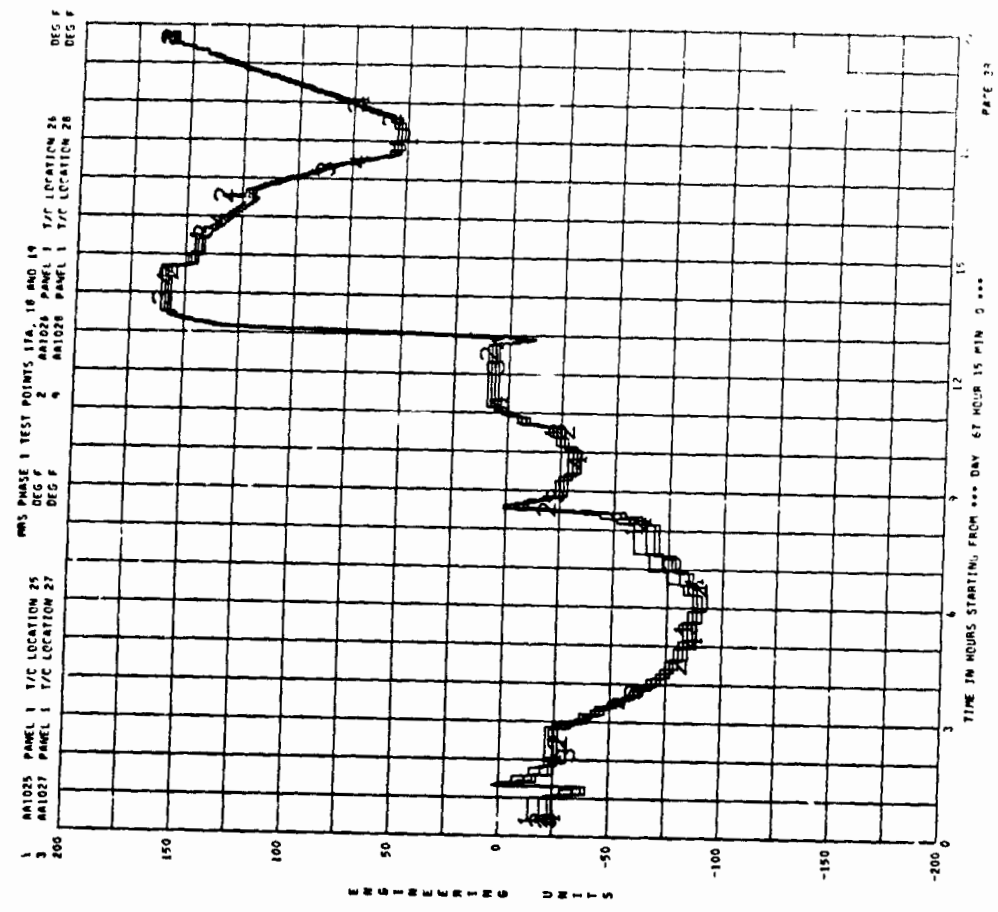
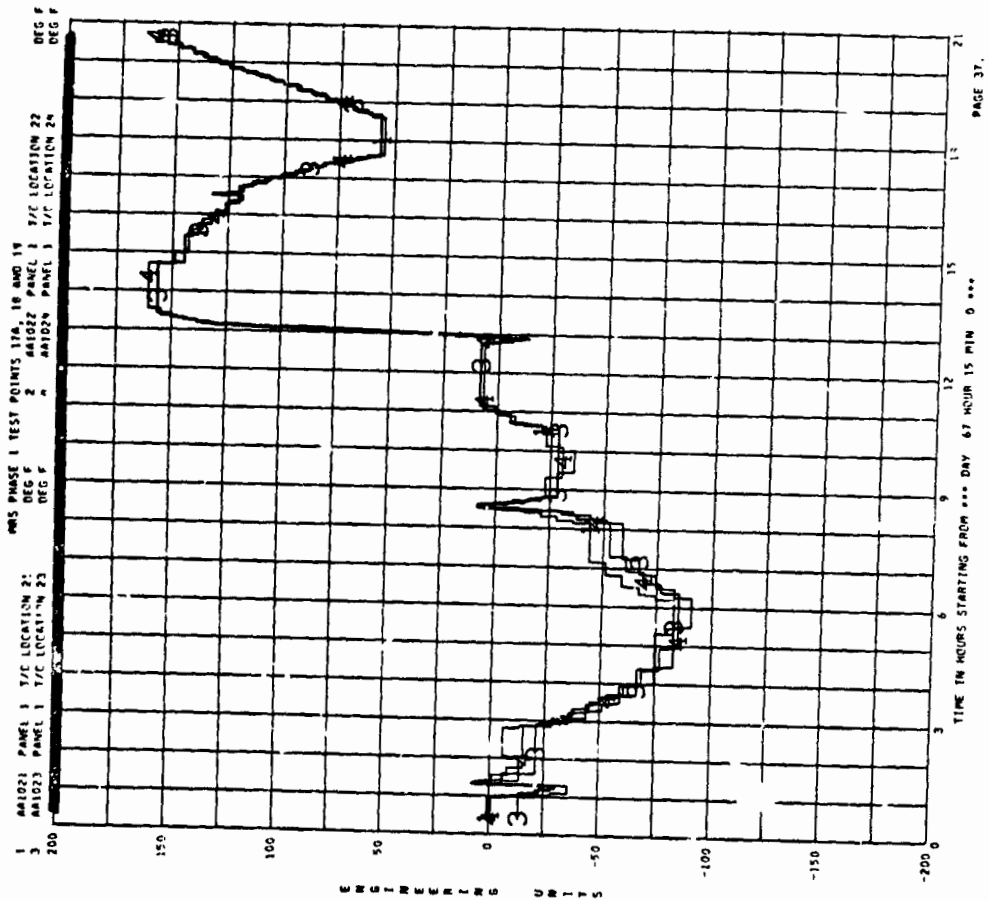


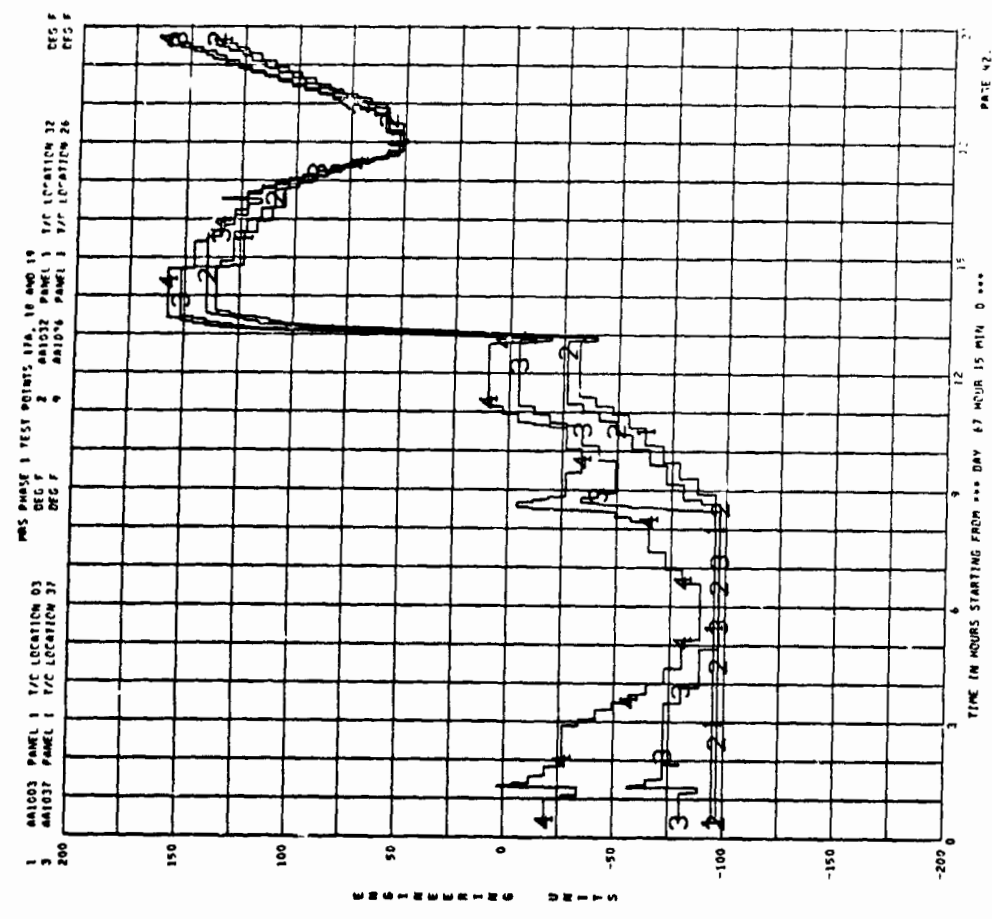
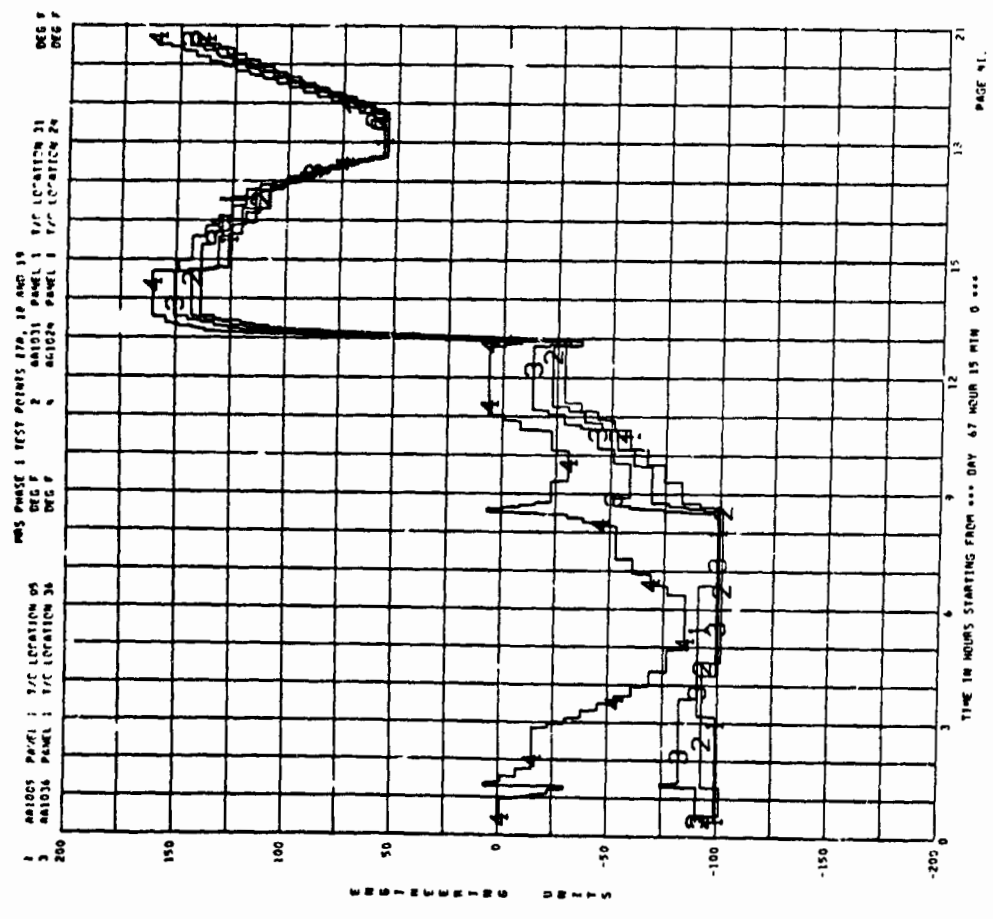


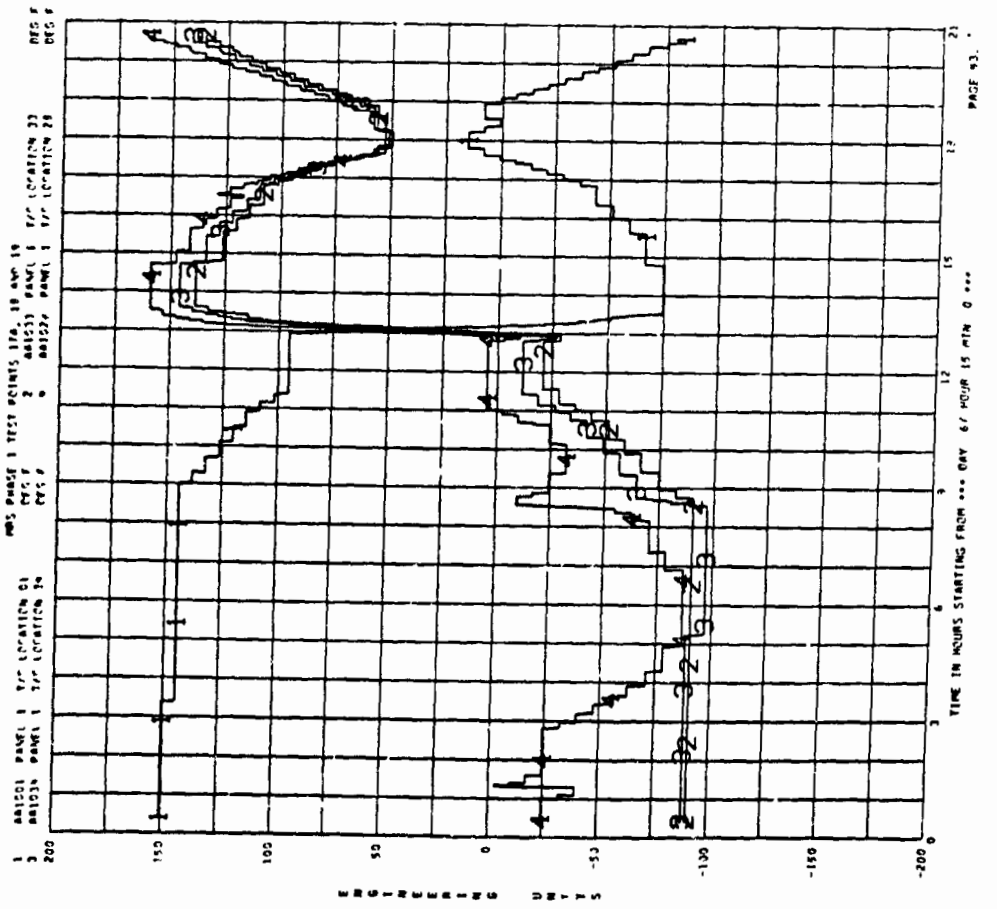
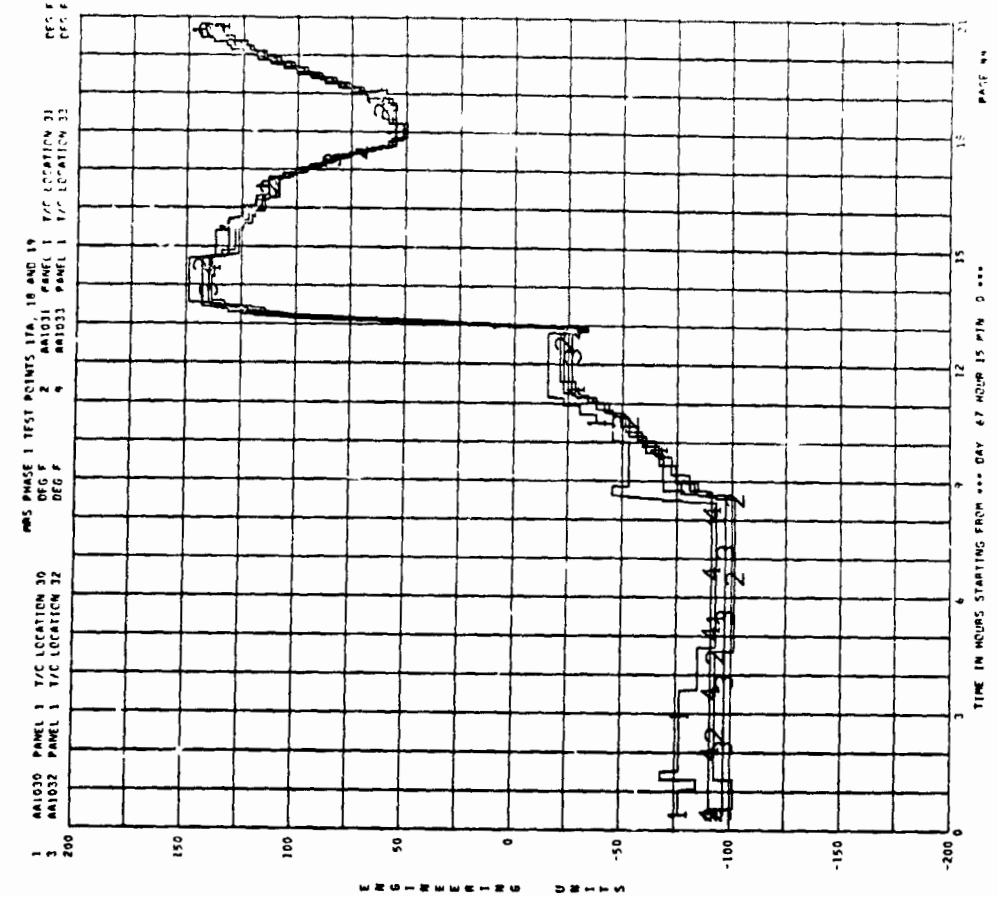


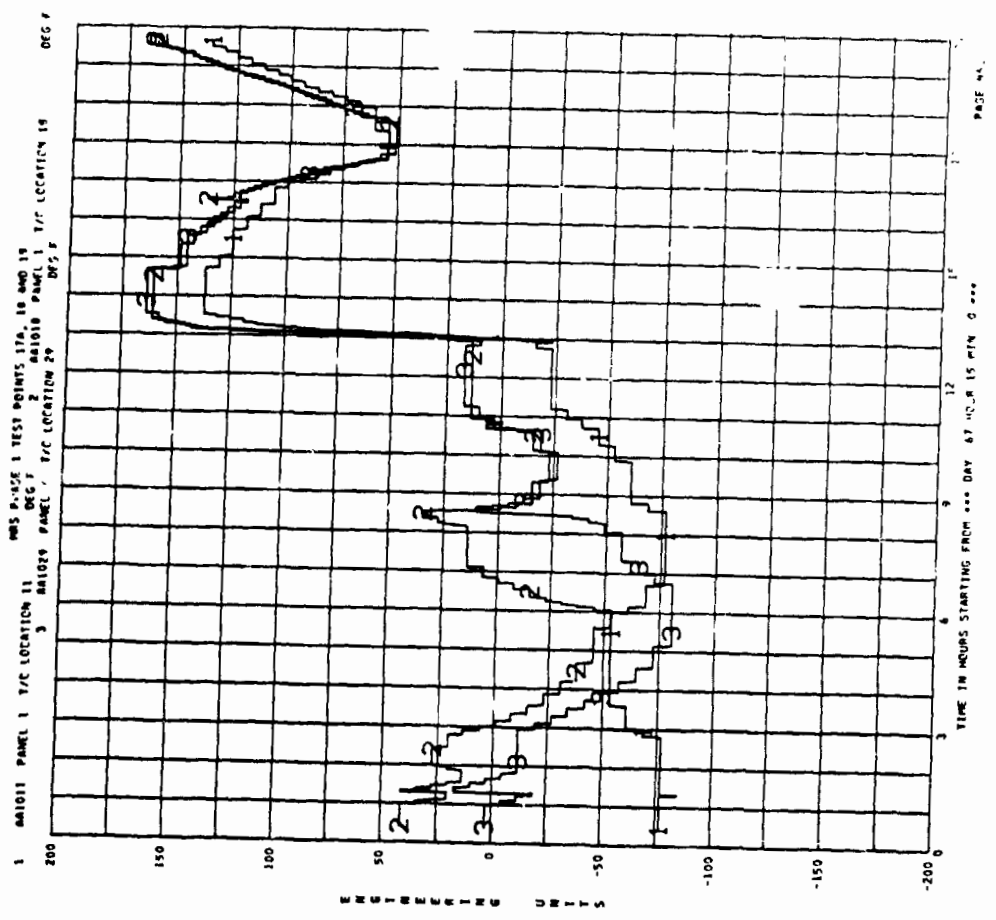
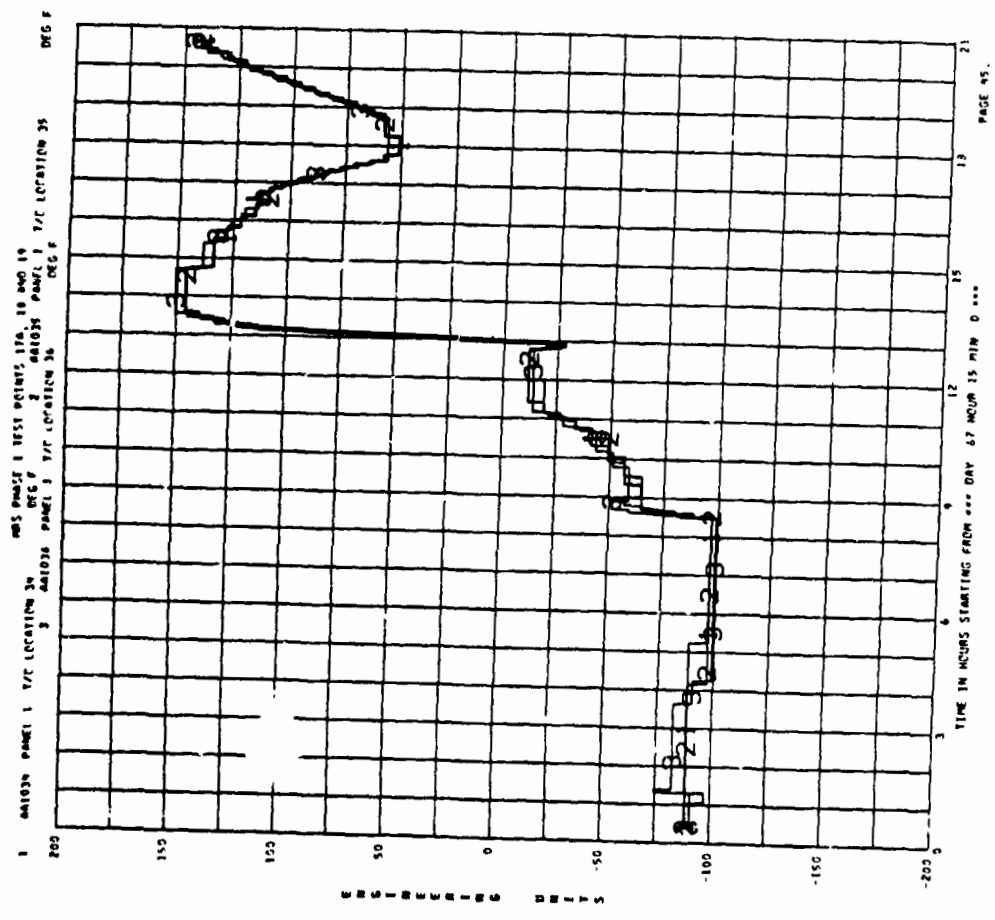


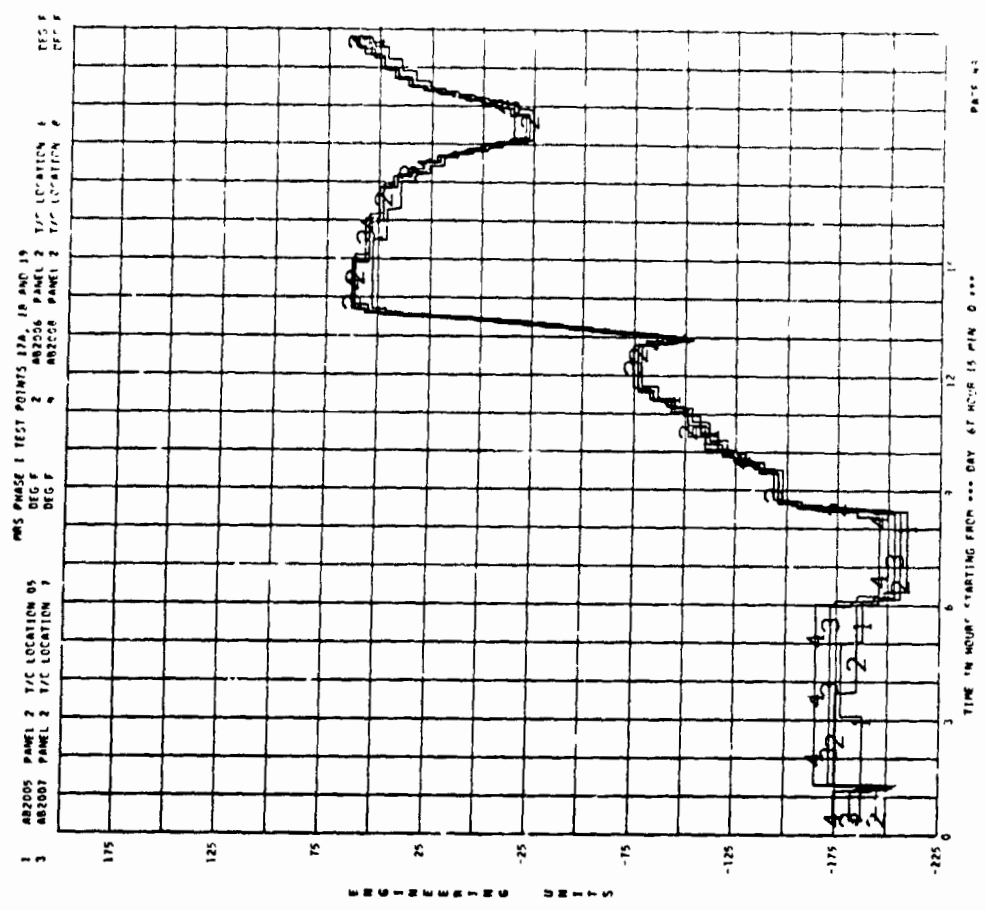
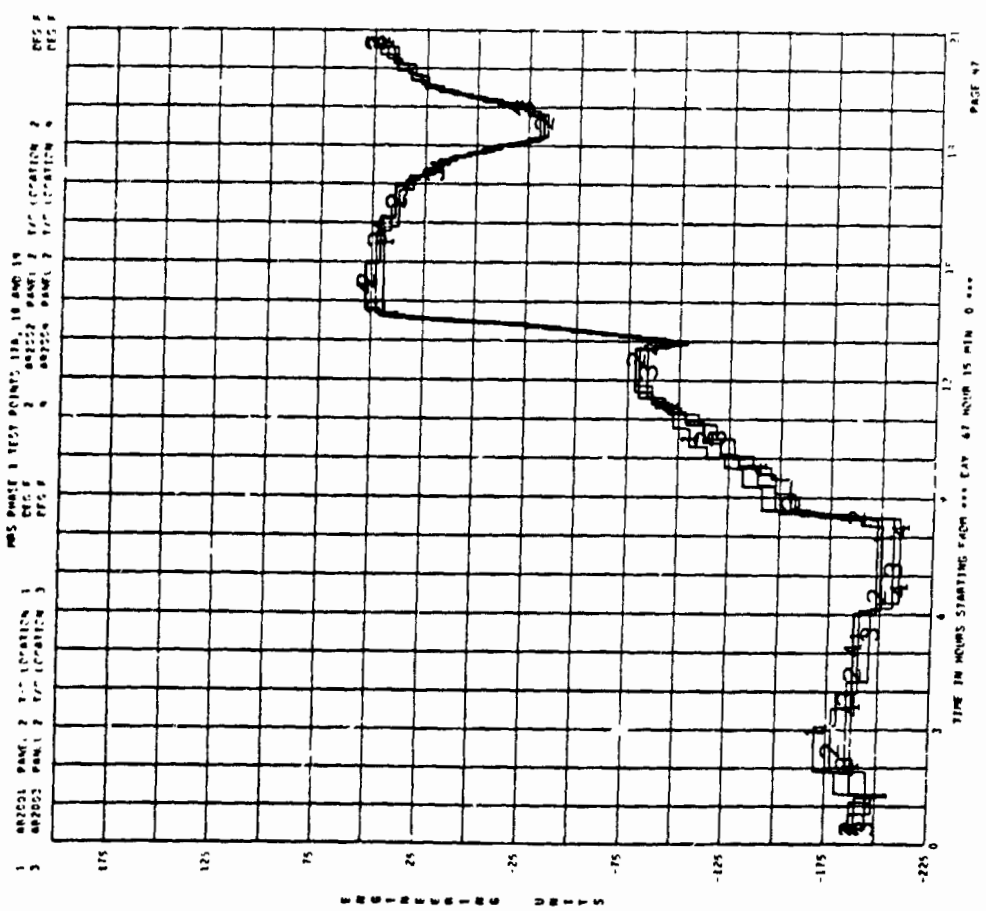


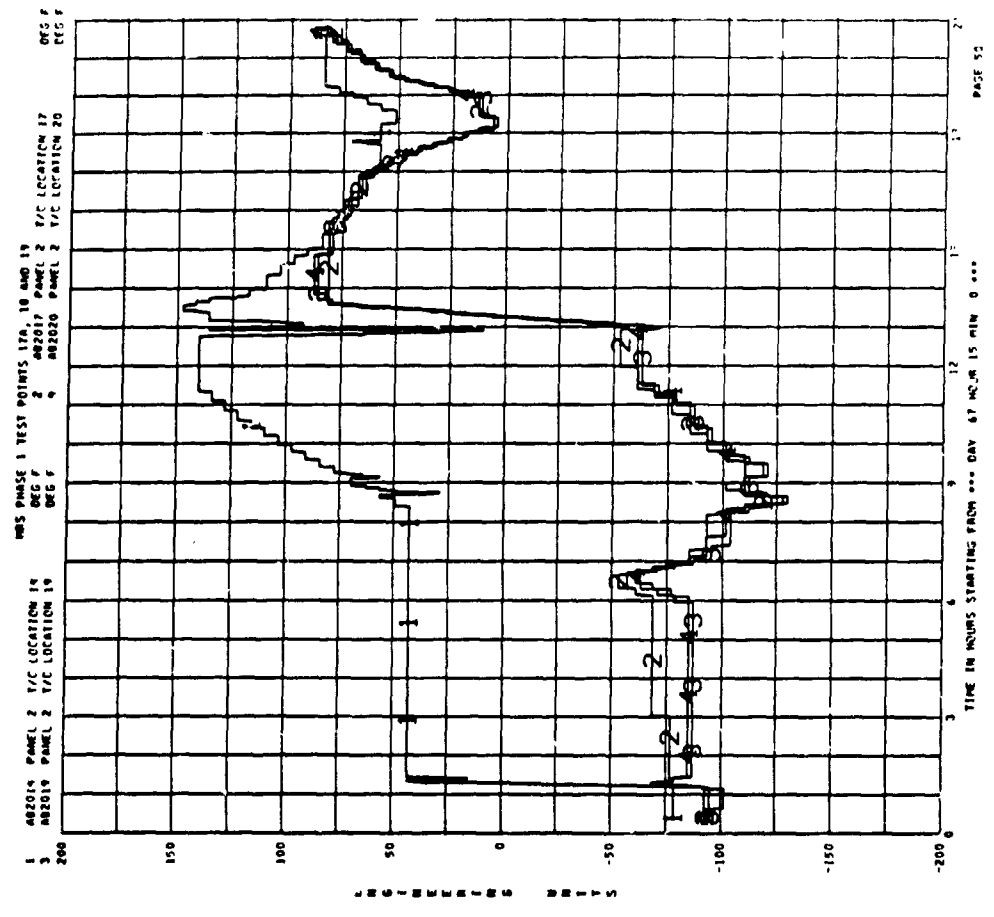
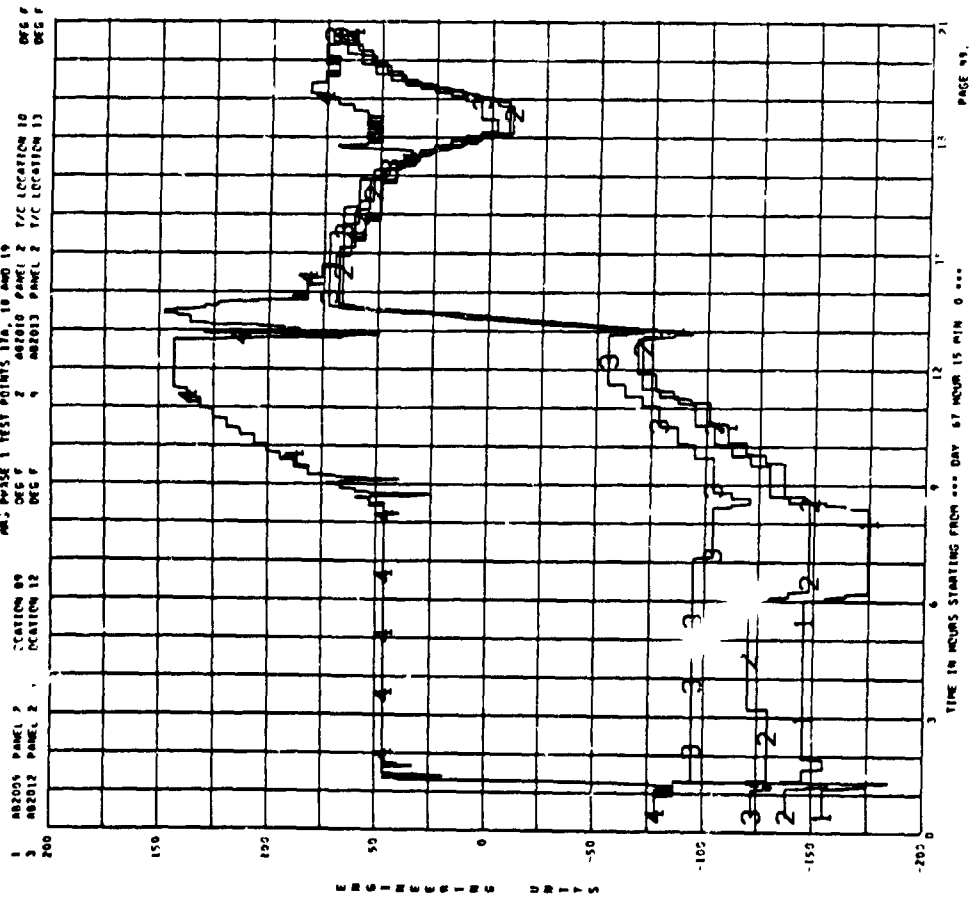


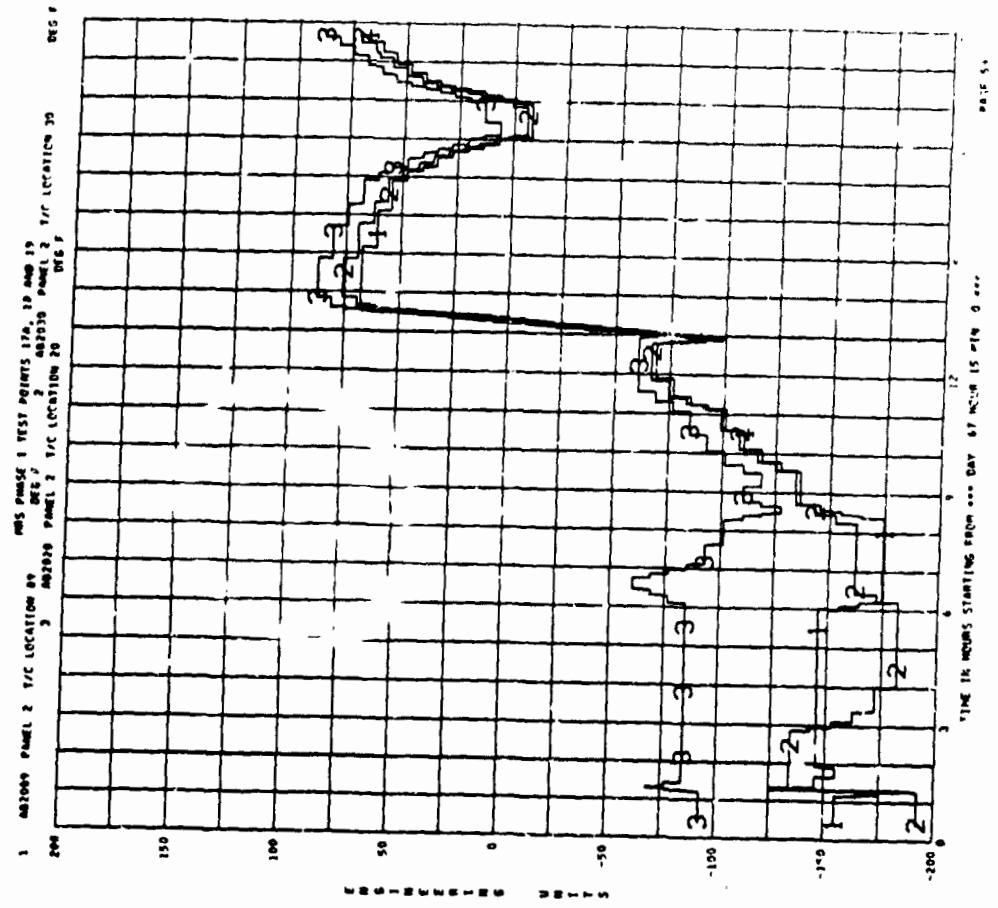
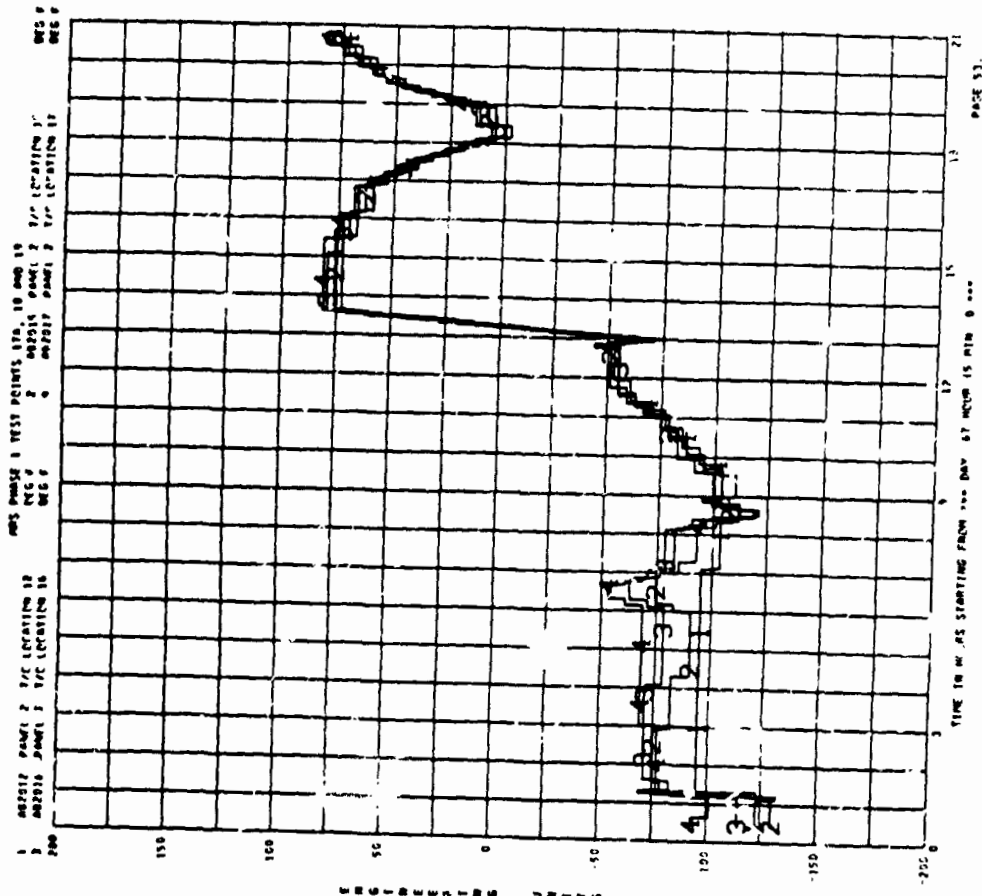


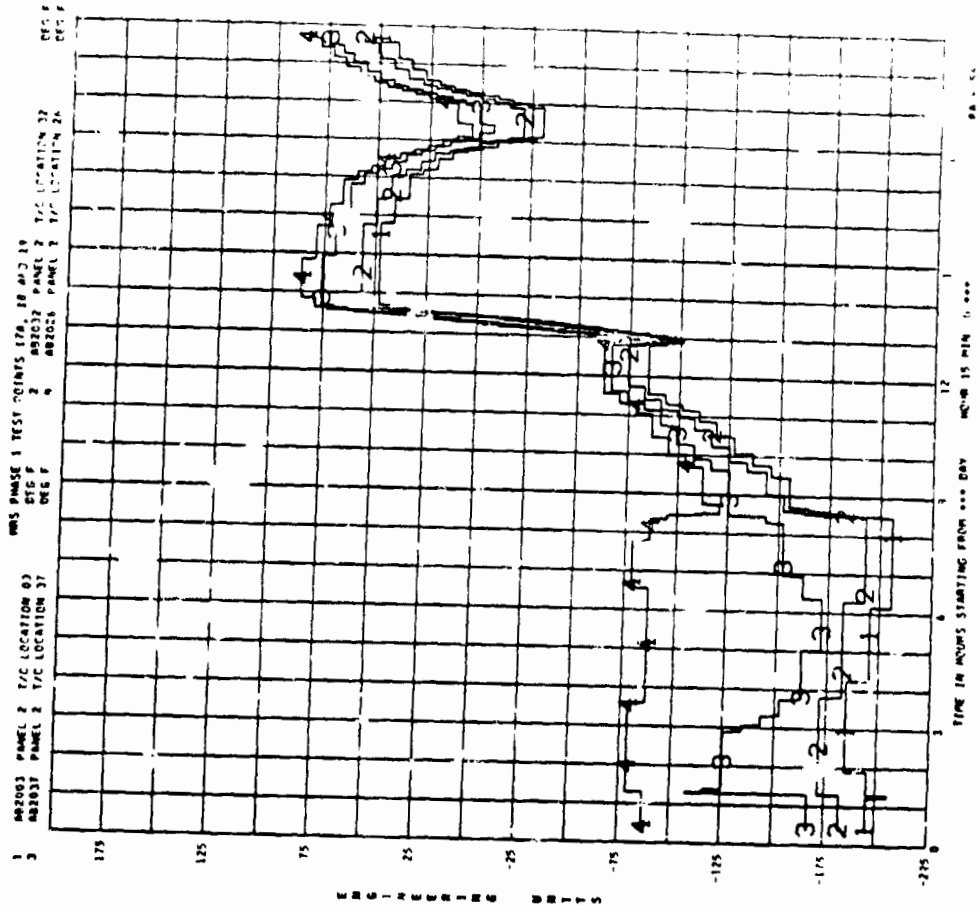
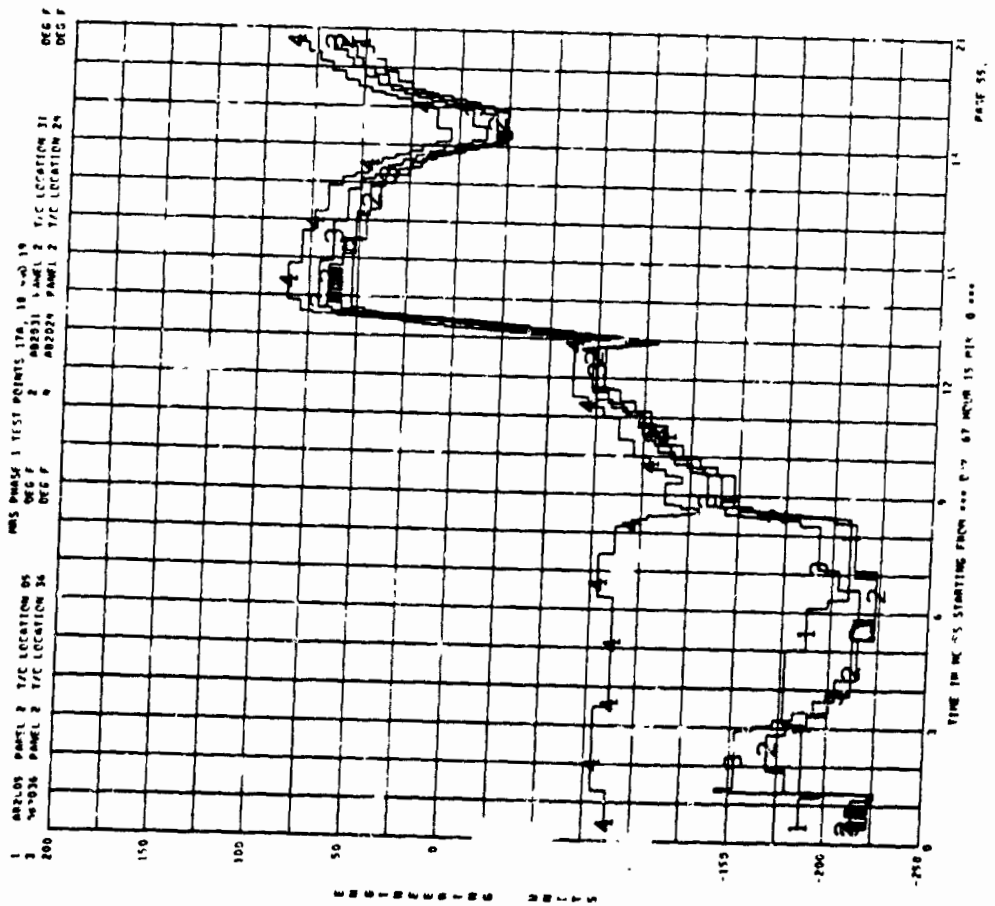


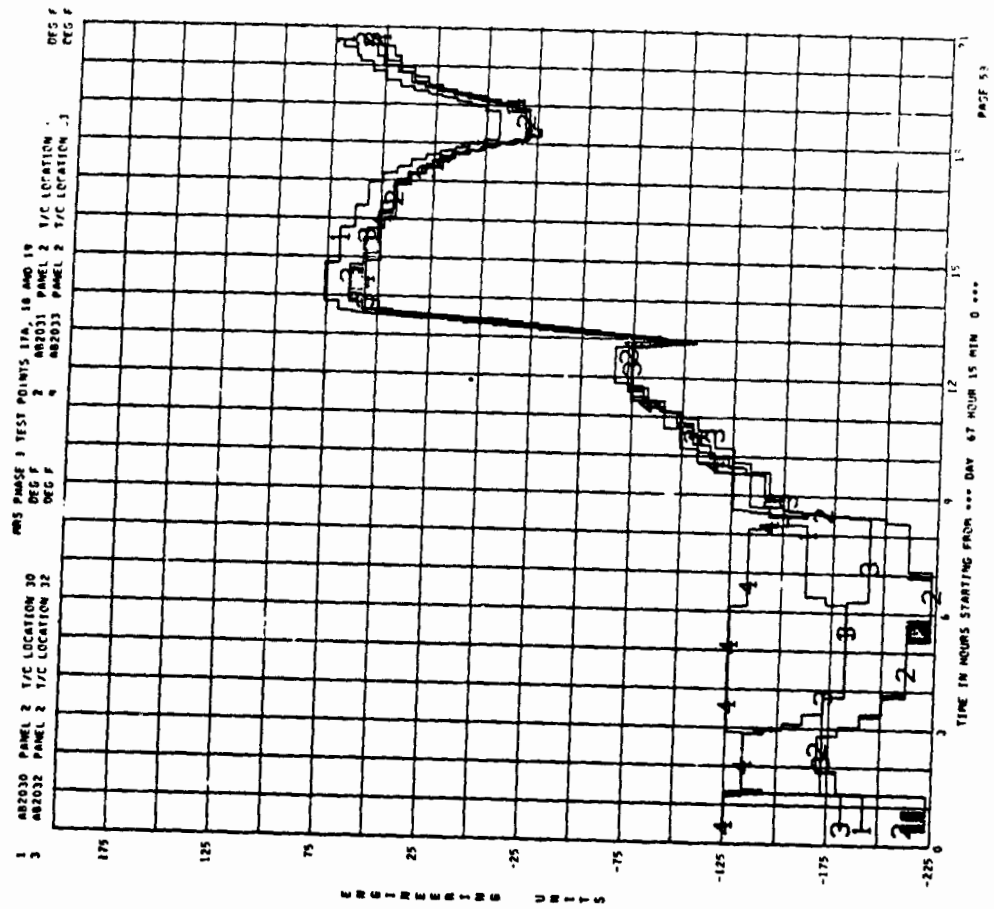
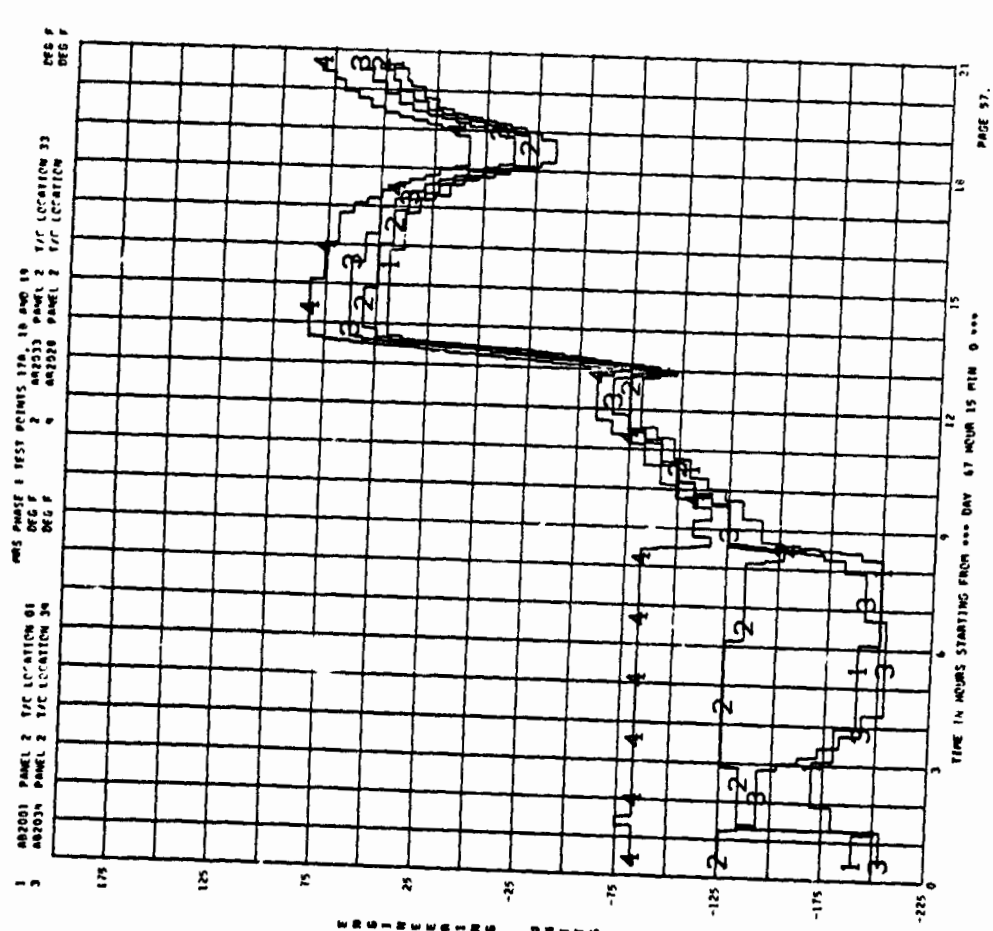


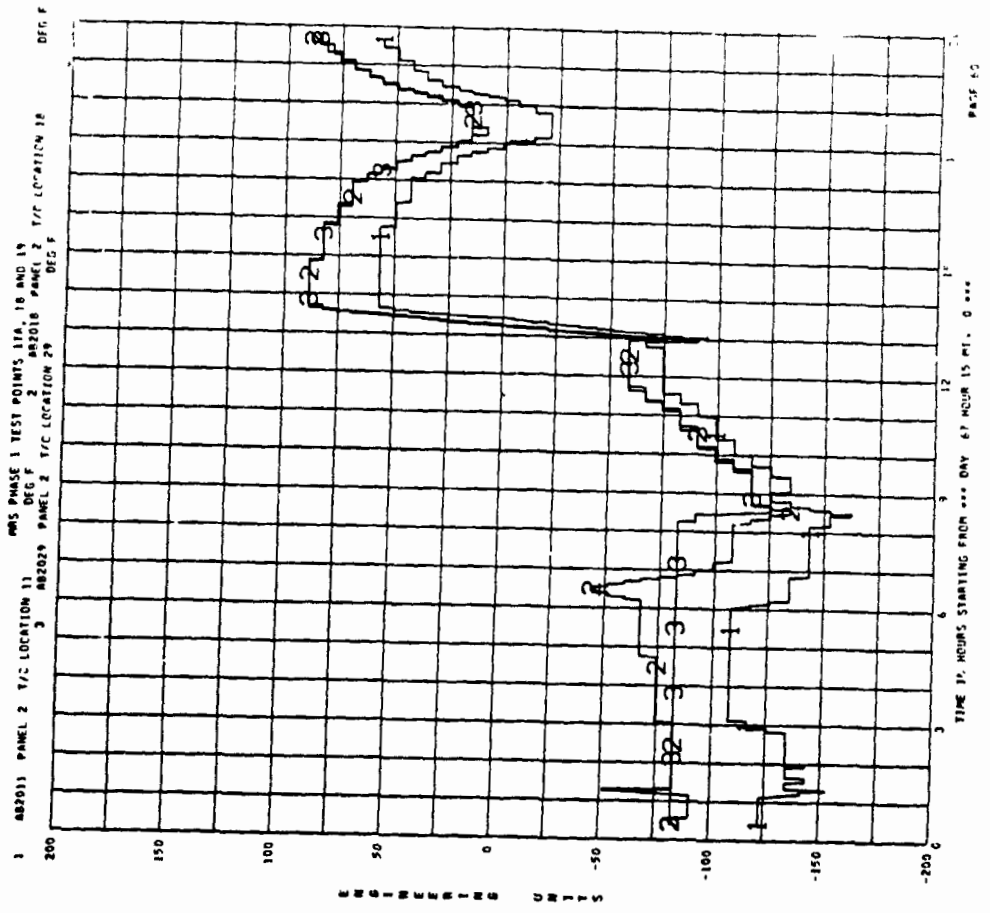
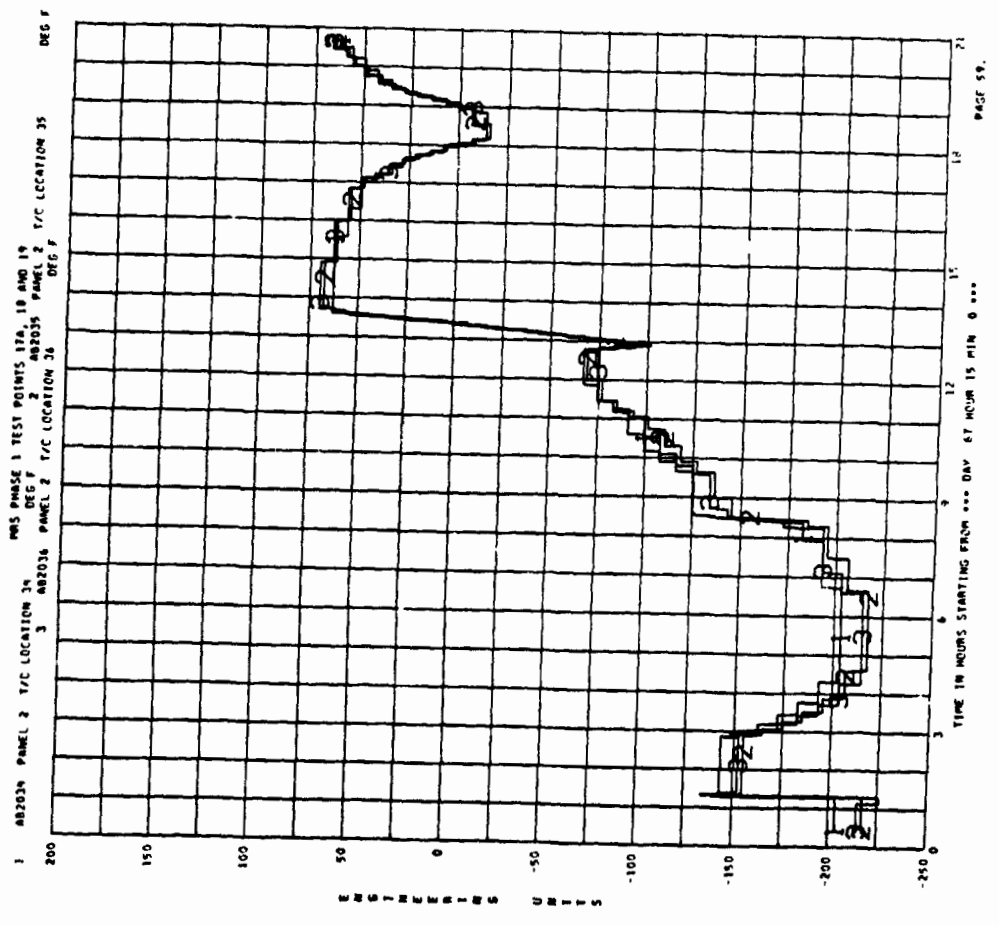


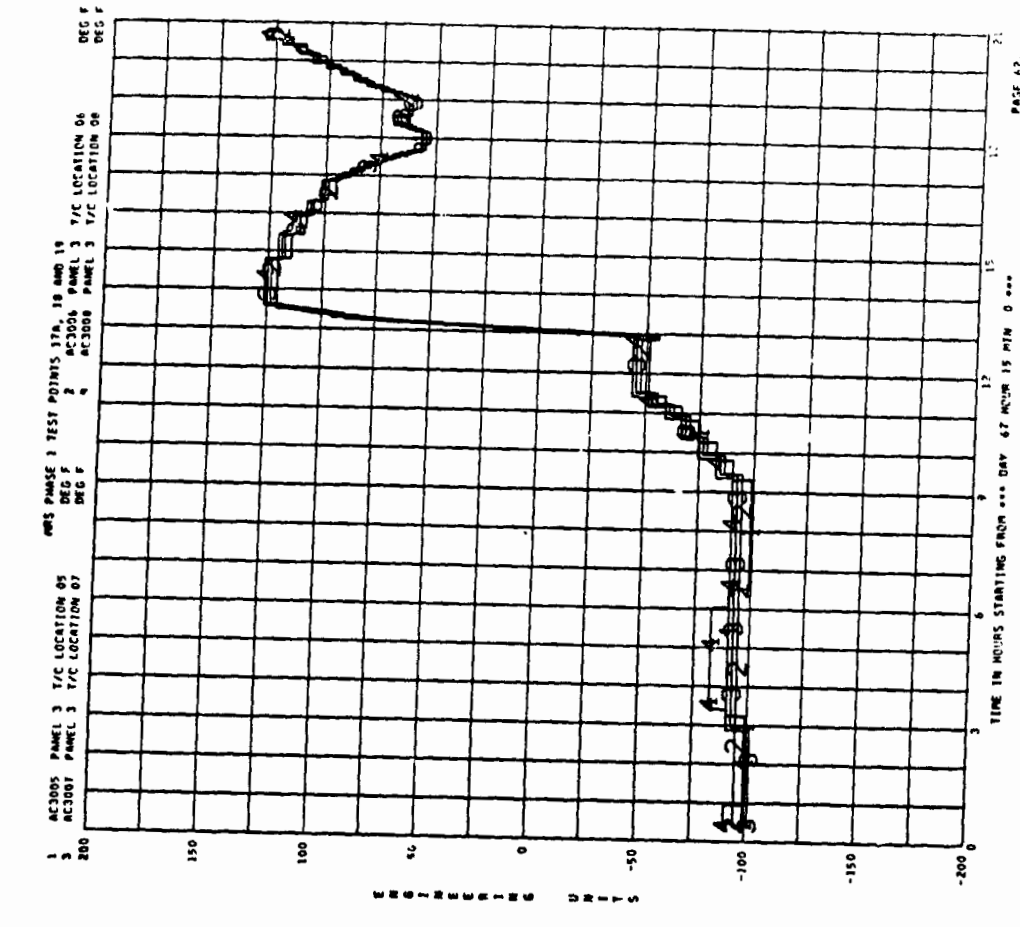
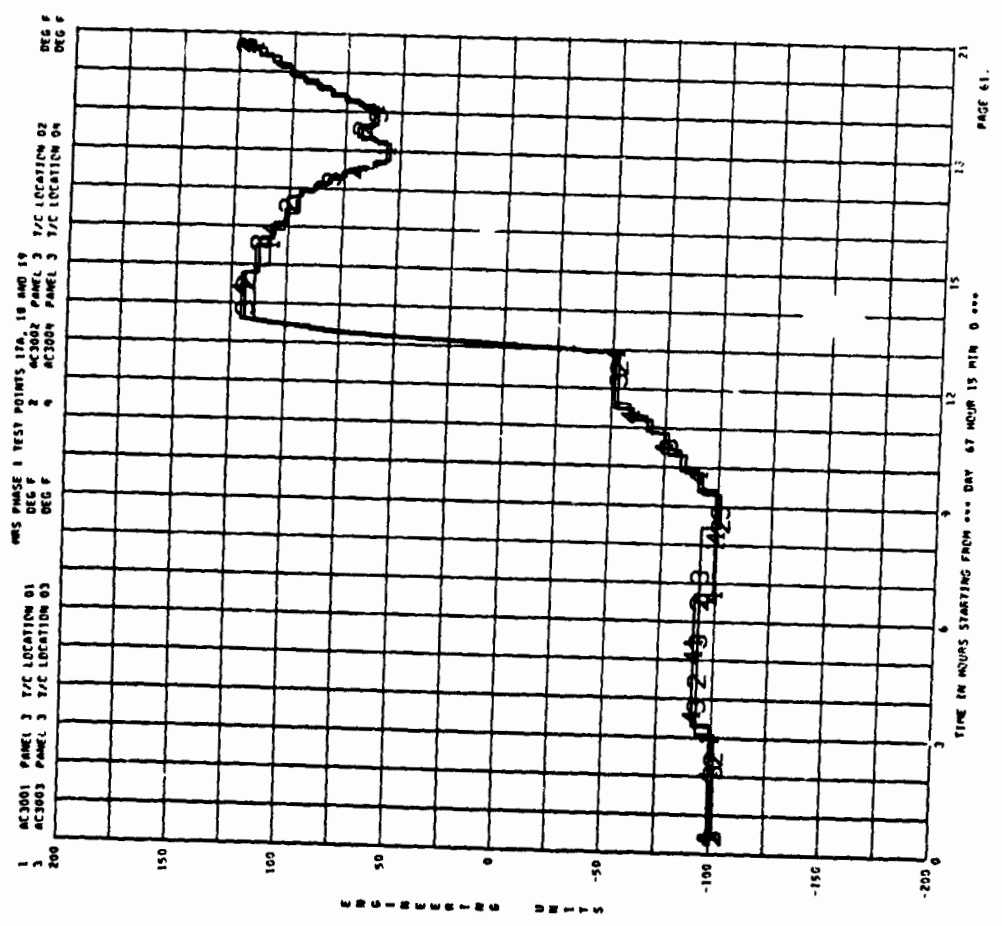


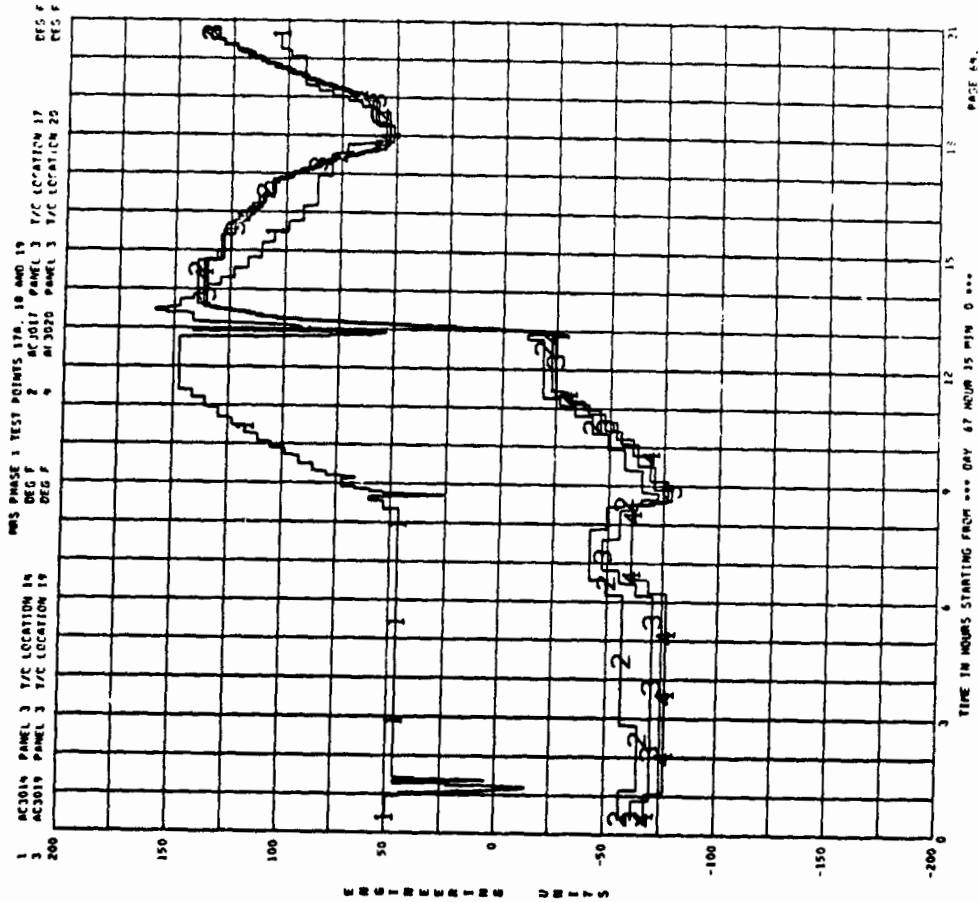
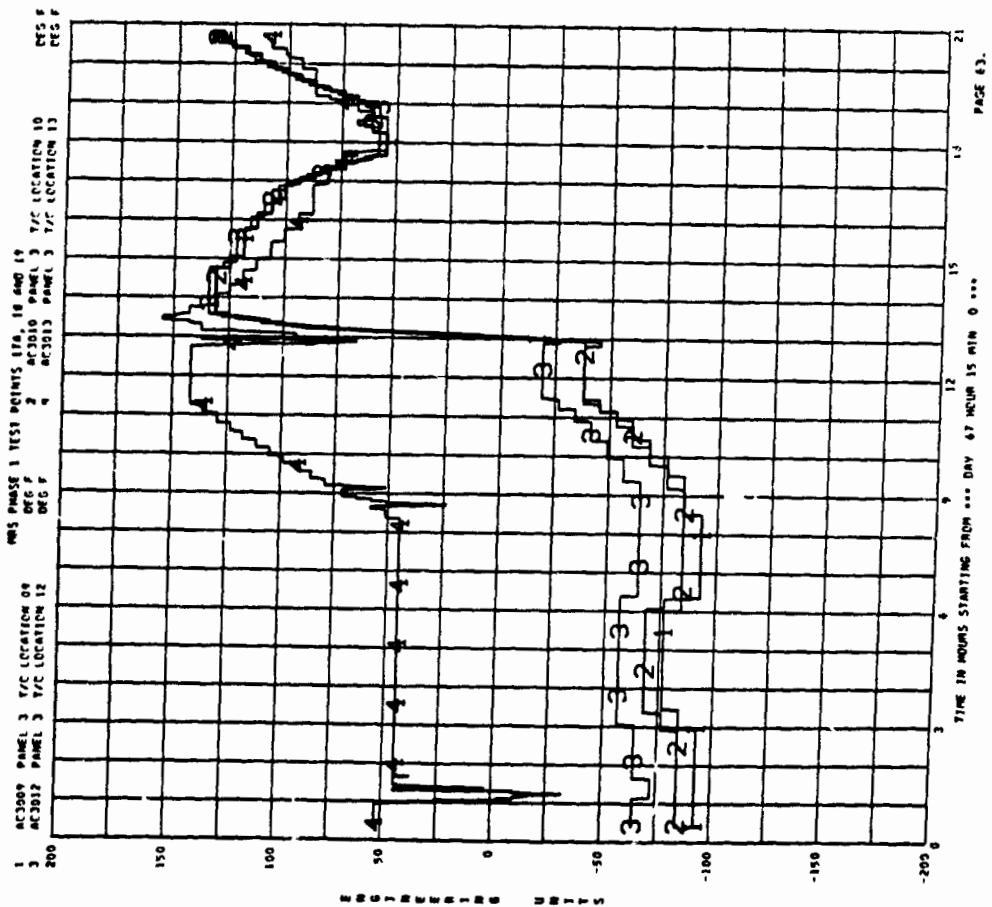


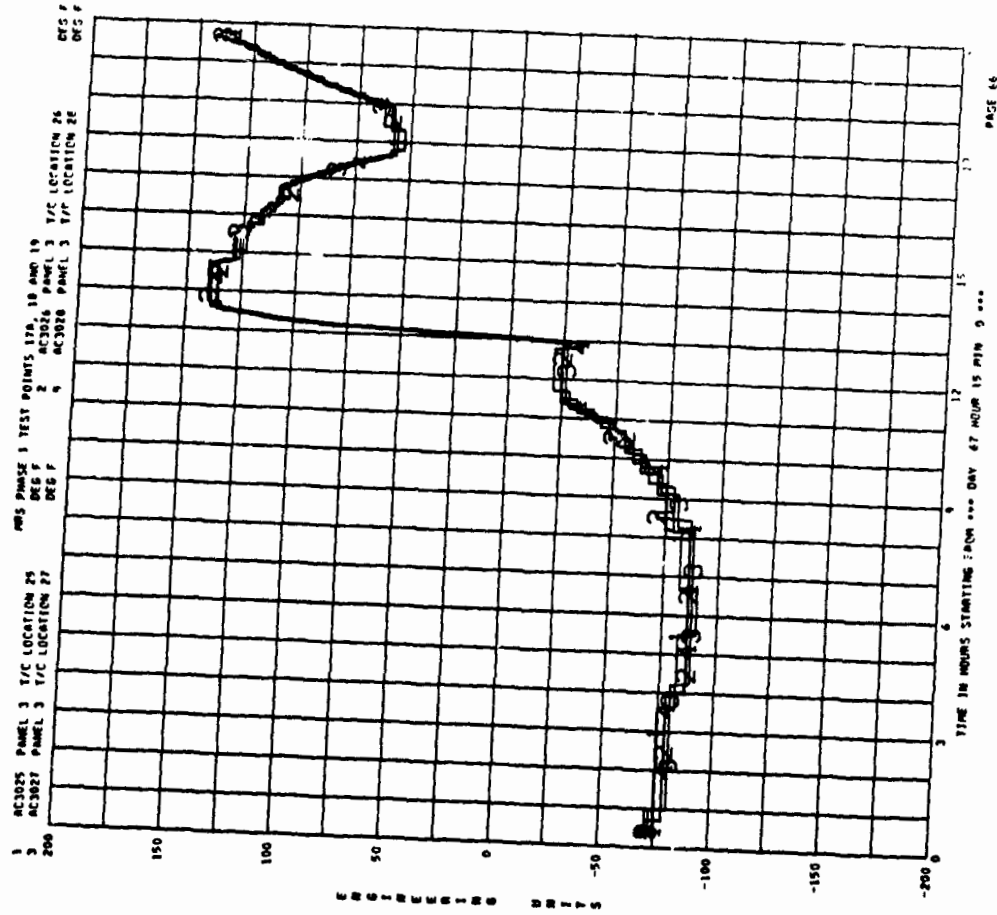
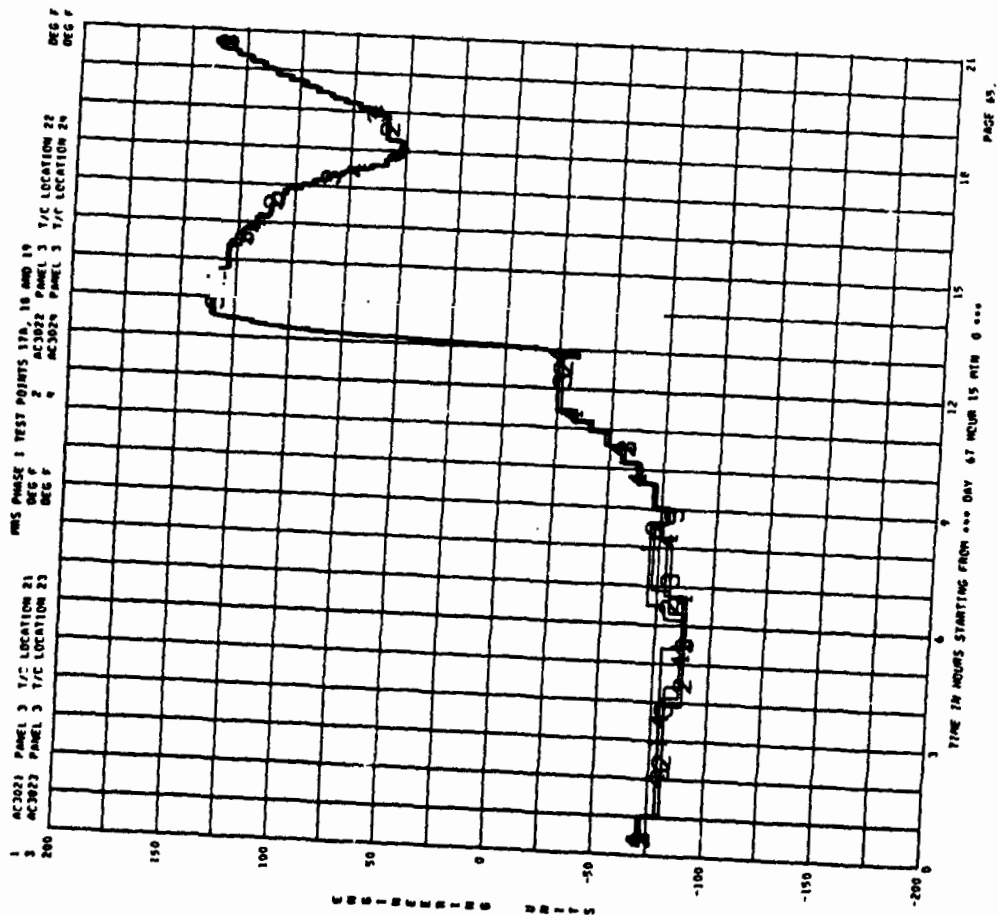




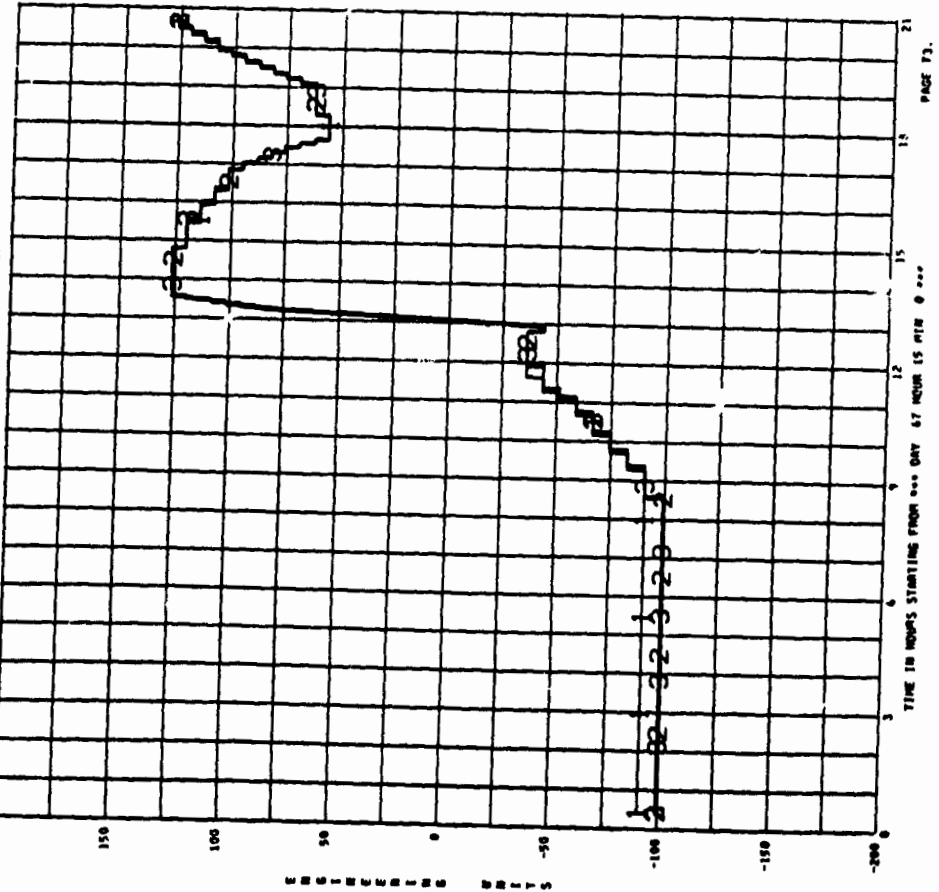




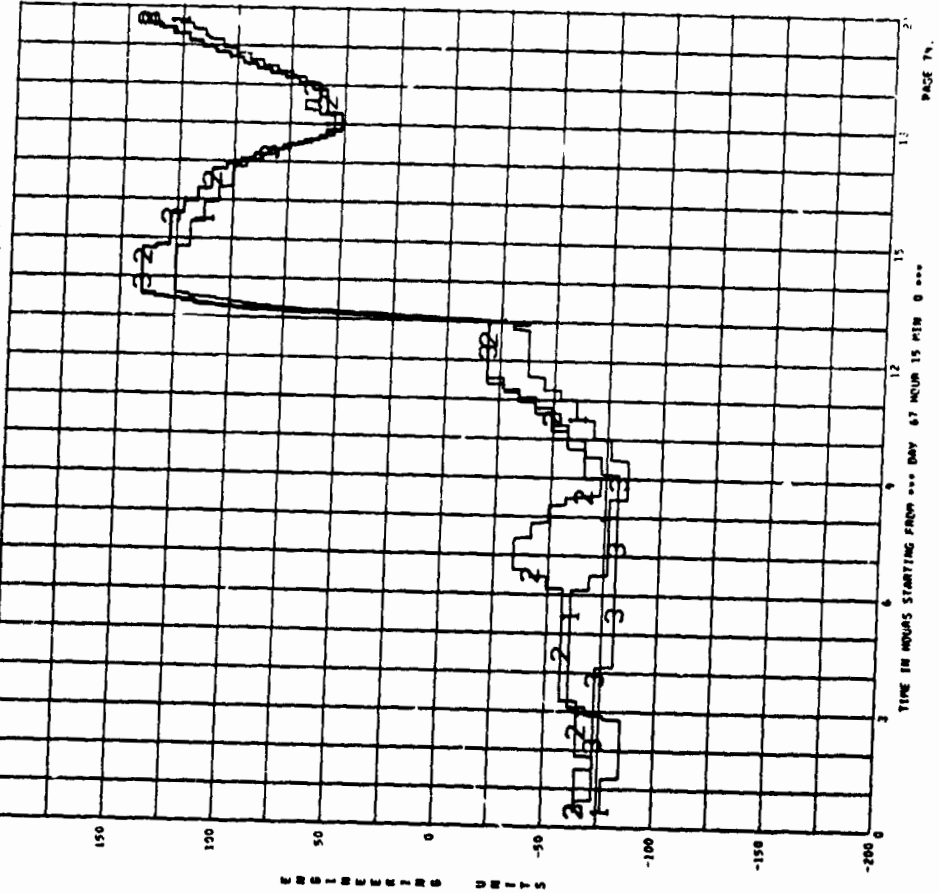


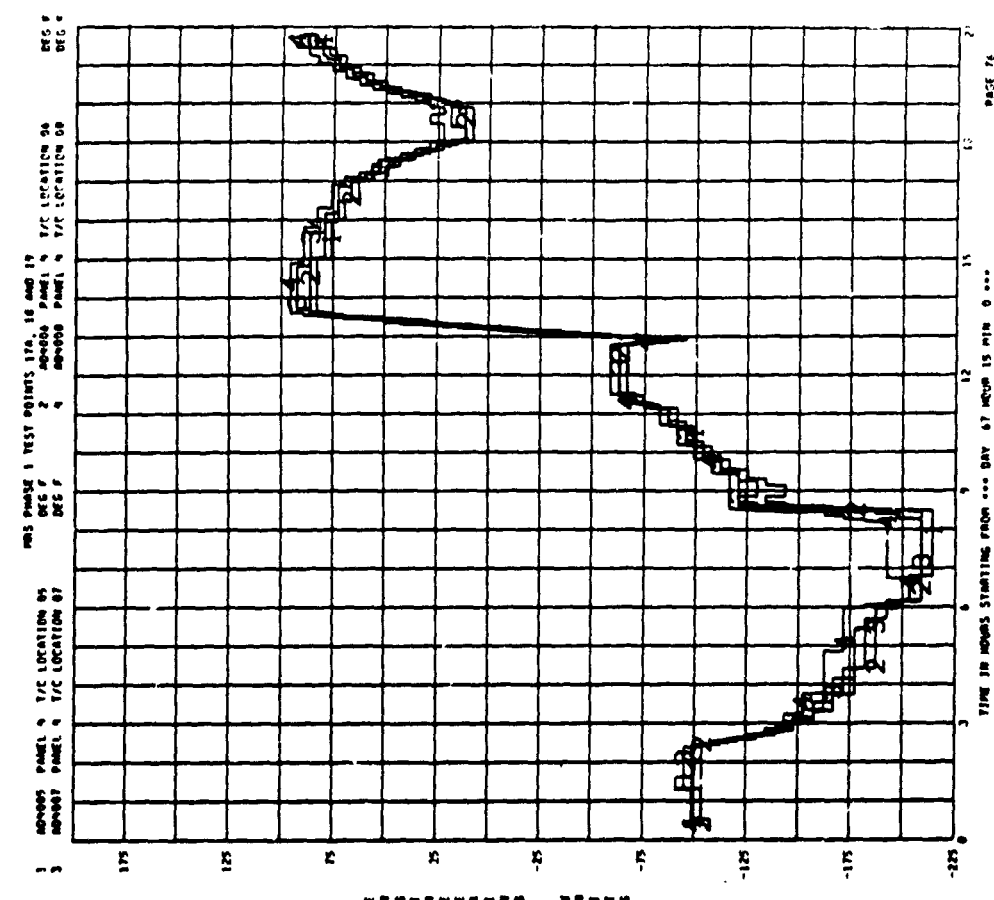
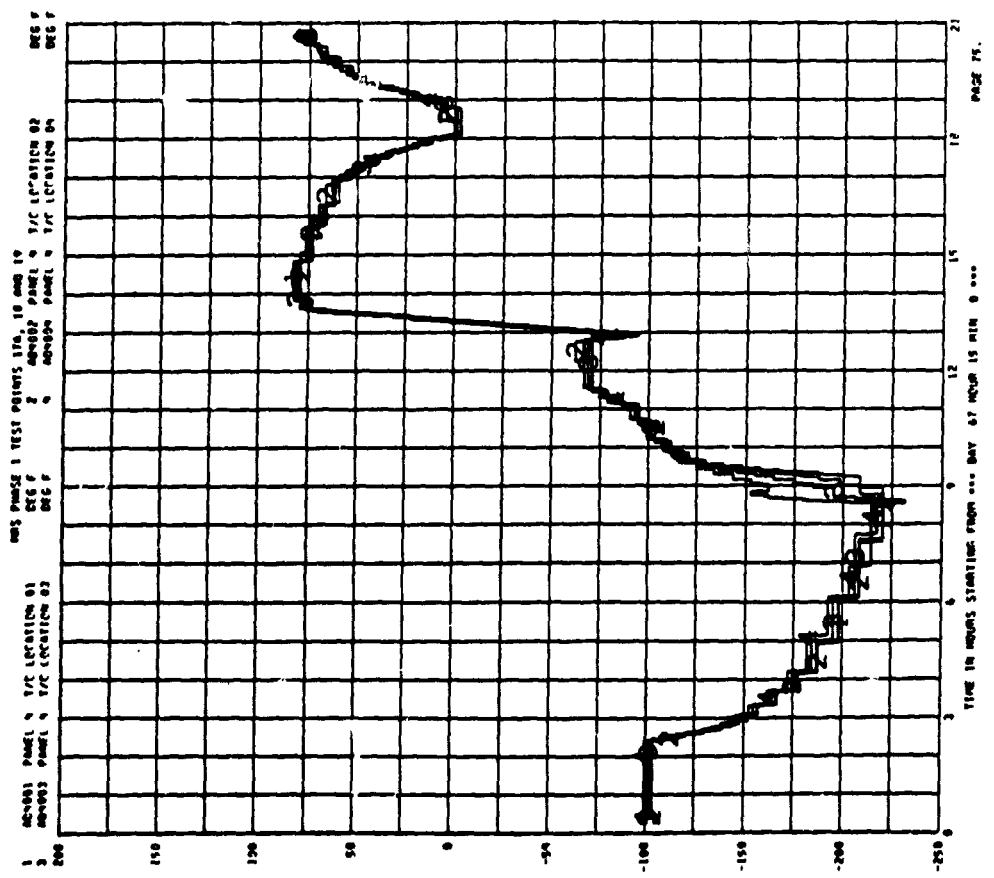


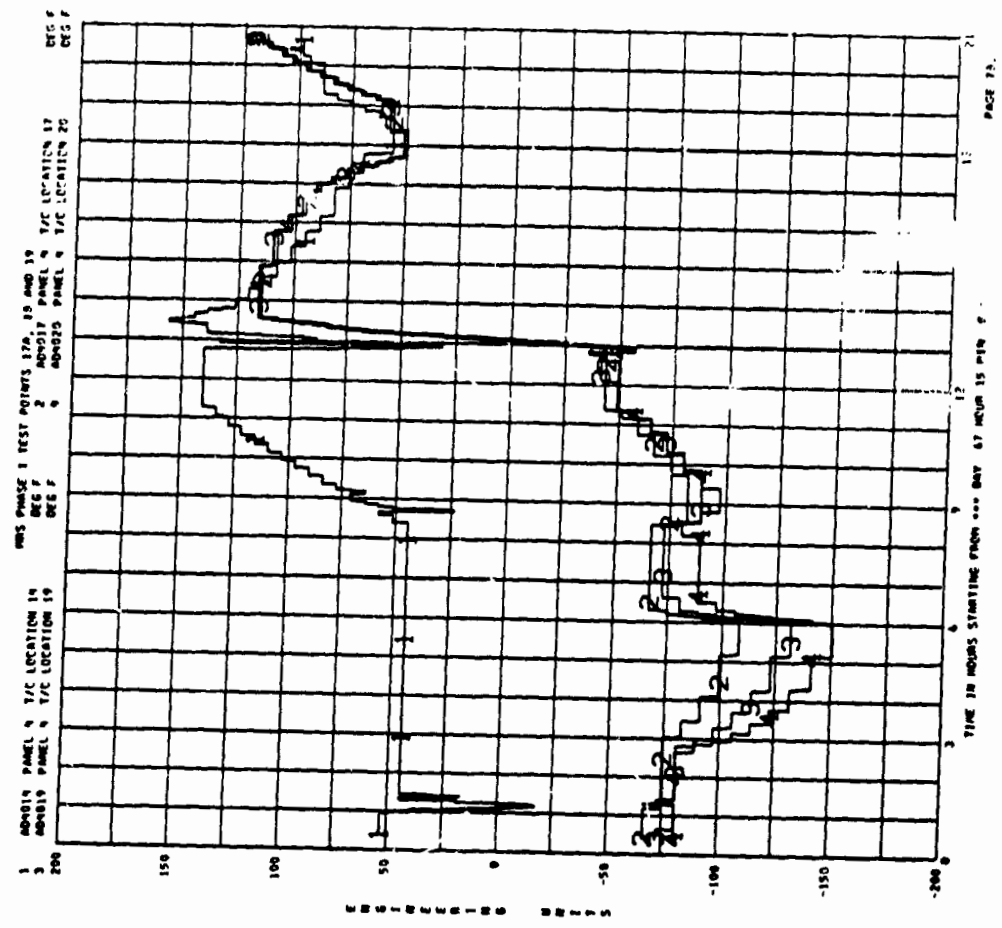
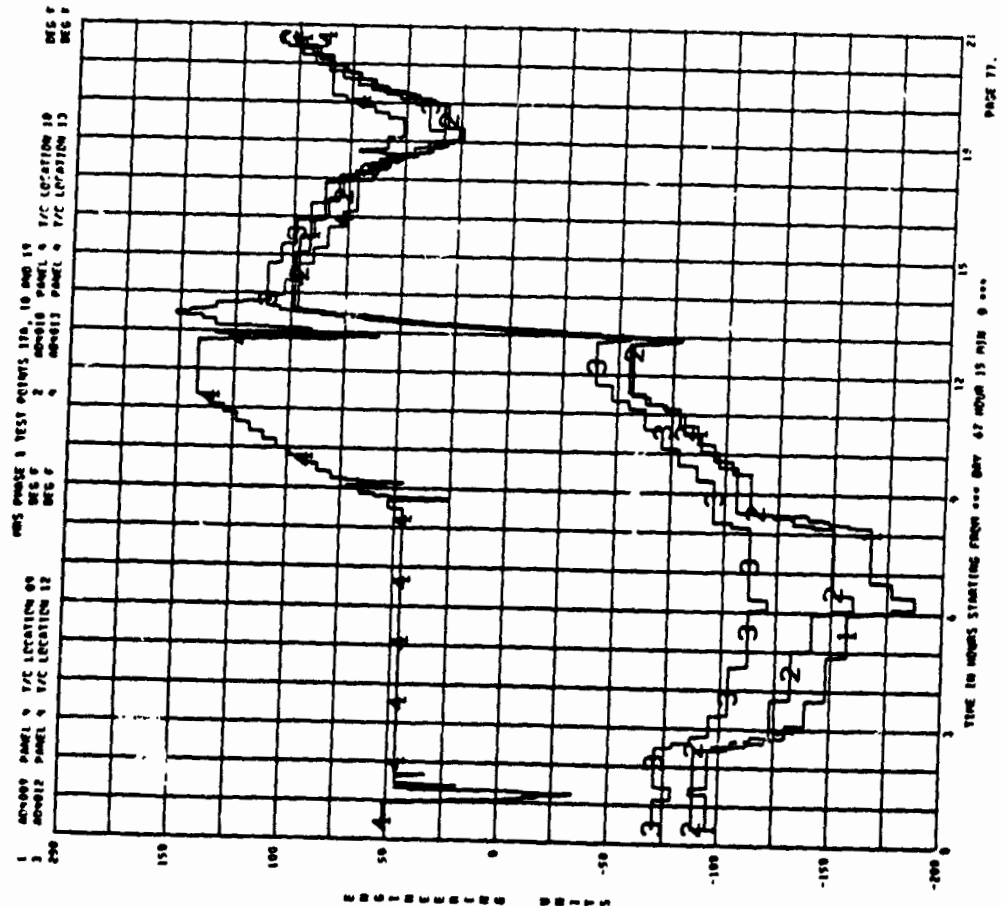
1 AC3034 PANEL 3 T/C LOCATION 24 DEG F
 2 AC3035 PANEL 3 T/C LOCATION 24 DEG F
 3 AC3036 PANEL 3 T/C LOCATION 24 DEG F
 4 AC3037 PANEL 3 T/C LOCATION 24 DEG F

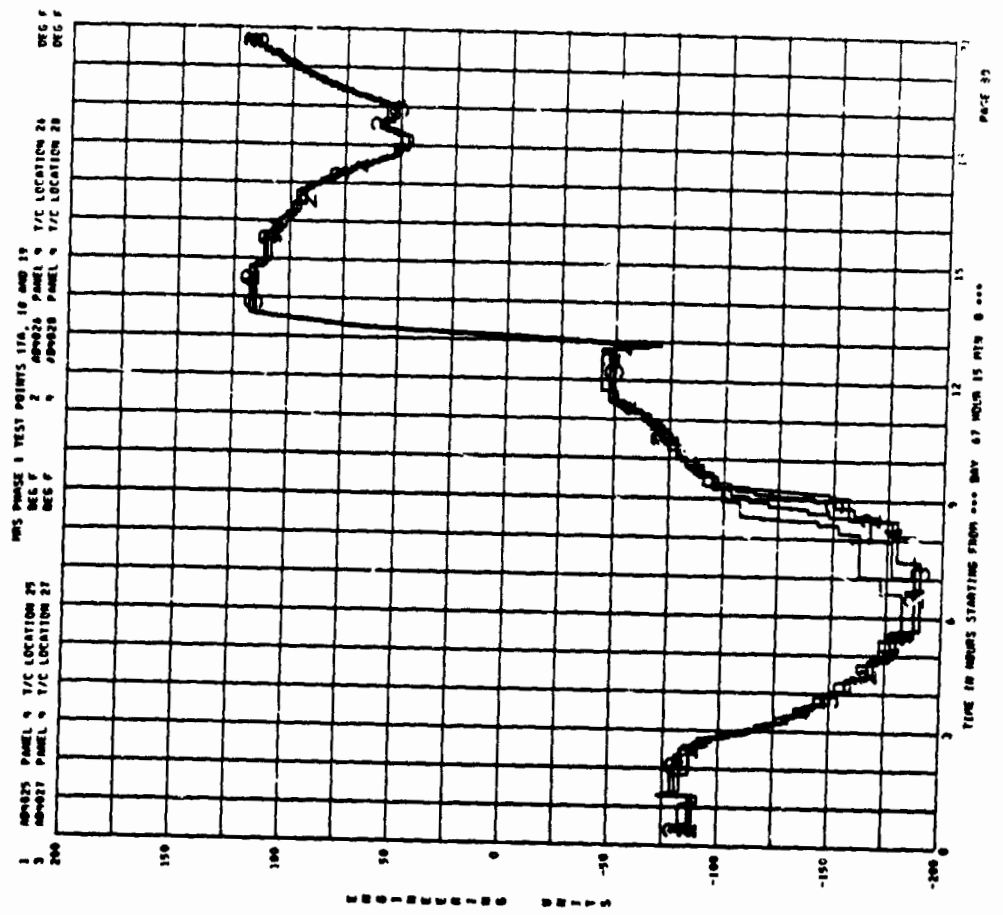
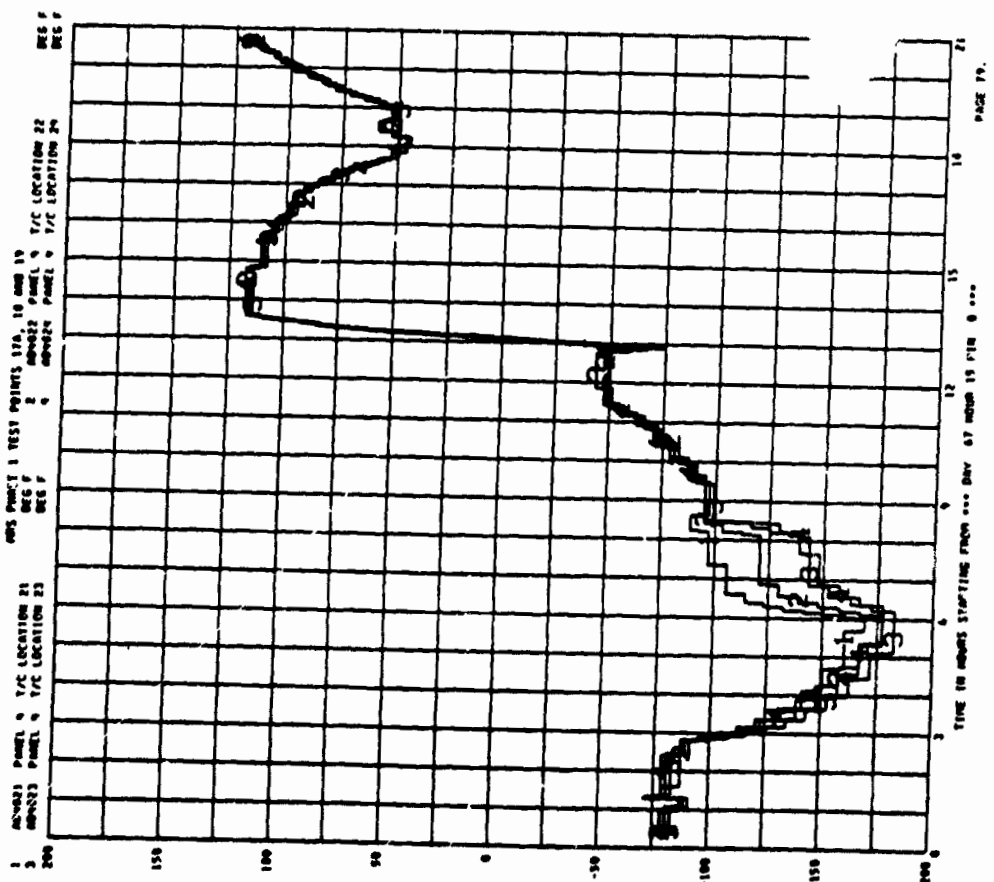


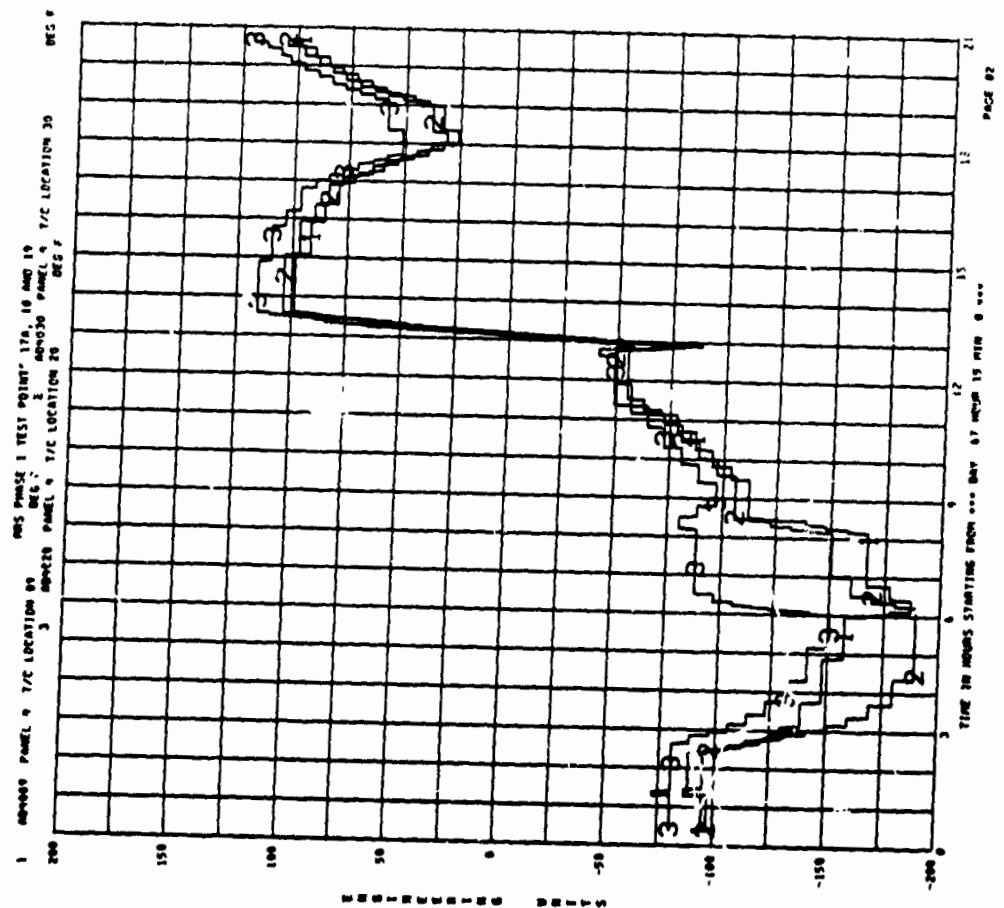
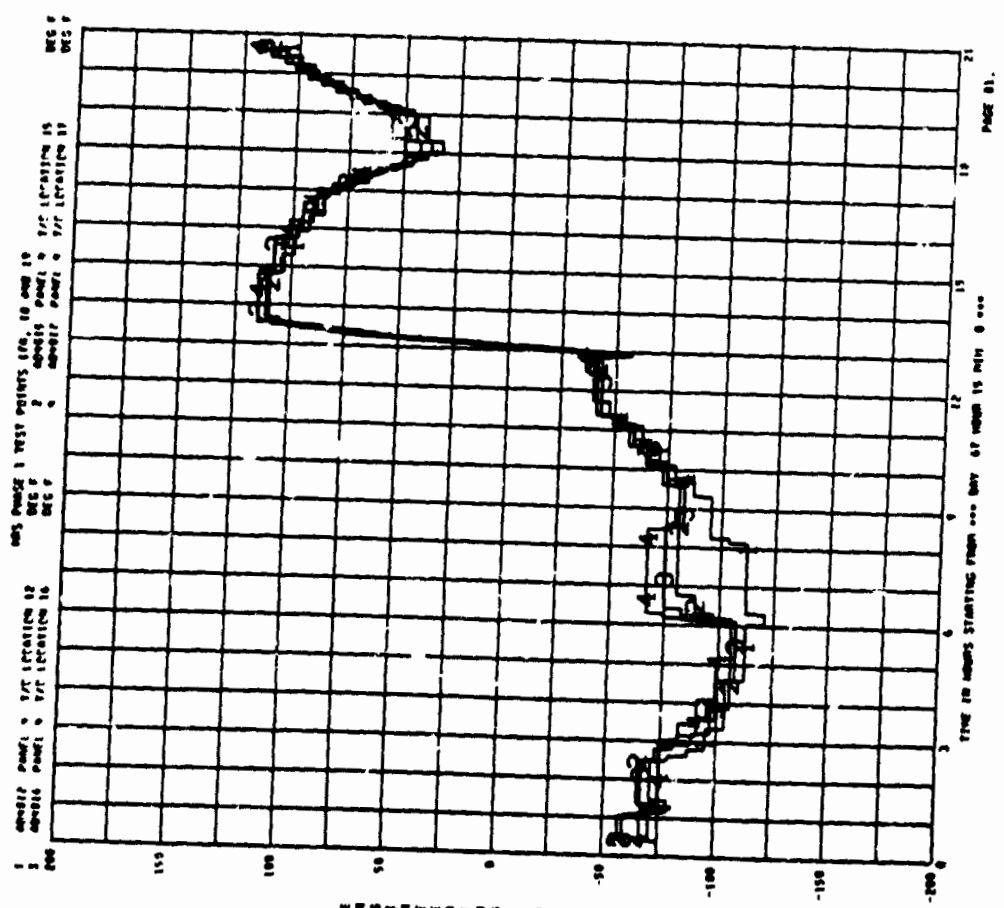
1 AC3011 PANEL 3 T/C LOCATION 11 DEG F
 2 AC3012 PANEL 3 T/C LOCATION 11 DEG F
 3 AC3013 PANEL 3 T/C LOCATION 11 DEG F
 4 AC3014 PANEL 3 T/C LOCATION 11 DEG F
 5 AC3015 PANEL 3 T/C LOCATION 11 DEG F
 6 AC3016 PANEL 3 T/C LOCATION 11 DEG F
 7 AC3017 PANEL 3 T/C LOCATION 11 DEG F
 8 AC3018 PANEL 3 T/C LOCATION 11 DEG F
 9 AC3019 PANEL 3 T/C LOCATION 11 DEG F
 10 AC3020 PANEL 3 T/C LOCATION 11 DEG F
 11 AC3021 PANEL 3 T/C LOCATION 11 DEG F
 12 AC3022 PANEL 3 T/C LOCATION 11 DEG F
 13 AC3023 PANEL 3 T/C LOCATION 11 DEG F
 14 AC3024 PANEL 3 T/C LOCATION 11 DEG F
 15 AC3025 PANEL 3 T/C LOCATION 11 DEG F
 16 AC3026 PANEL 3 T/C LOCATION 11 DEG F
 17 AC3027 PANEL 3 T/C LOCATION 11 DEG F
 18 AC3028 PANEL 3 T/C LOCATION 11 DEG F
 19 AC3029 PANEL 3 T/C LOCATION 11 DEG F
 20 AC3030 PANEL 3 T/C LOCATION 11 DEG F
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 23 AC3033 PANEL 3 T/C LOCATION 11 DEG F

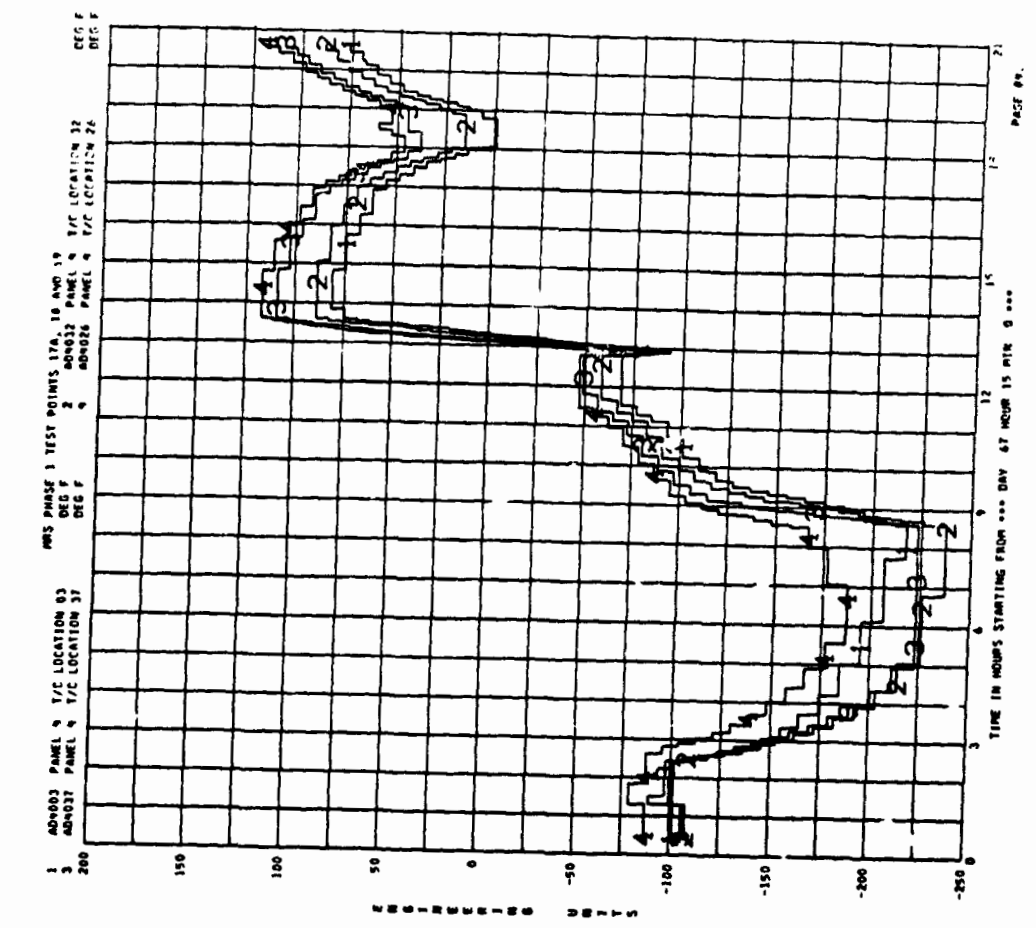
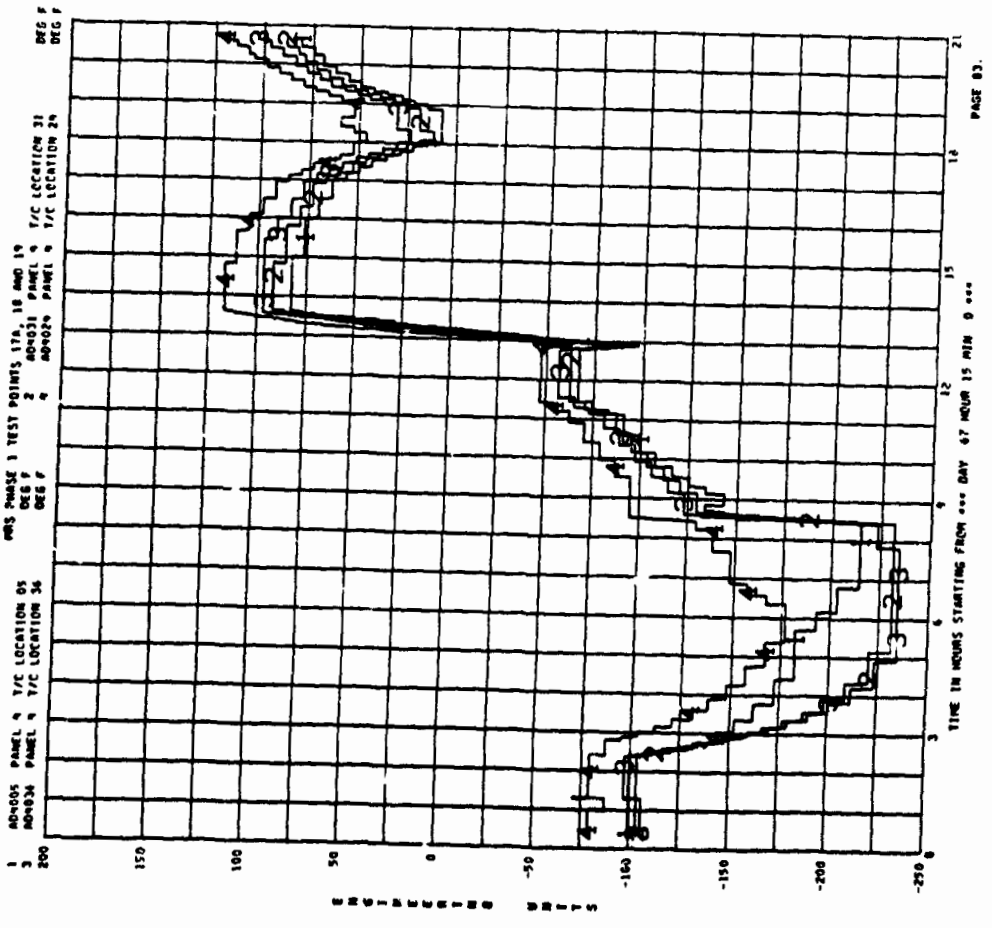


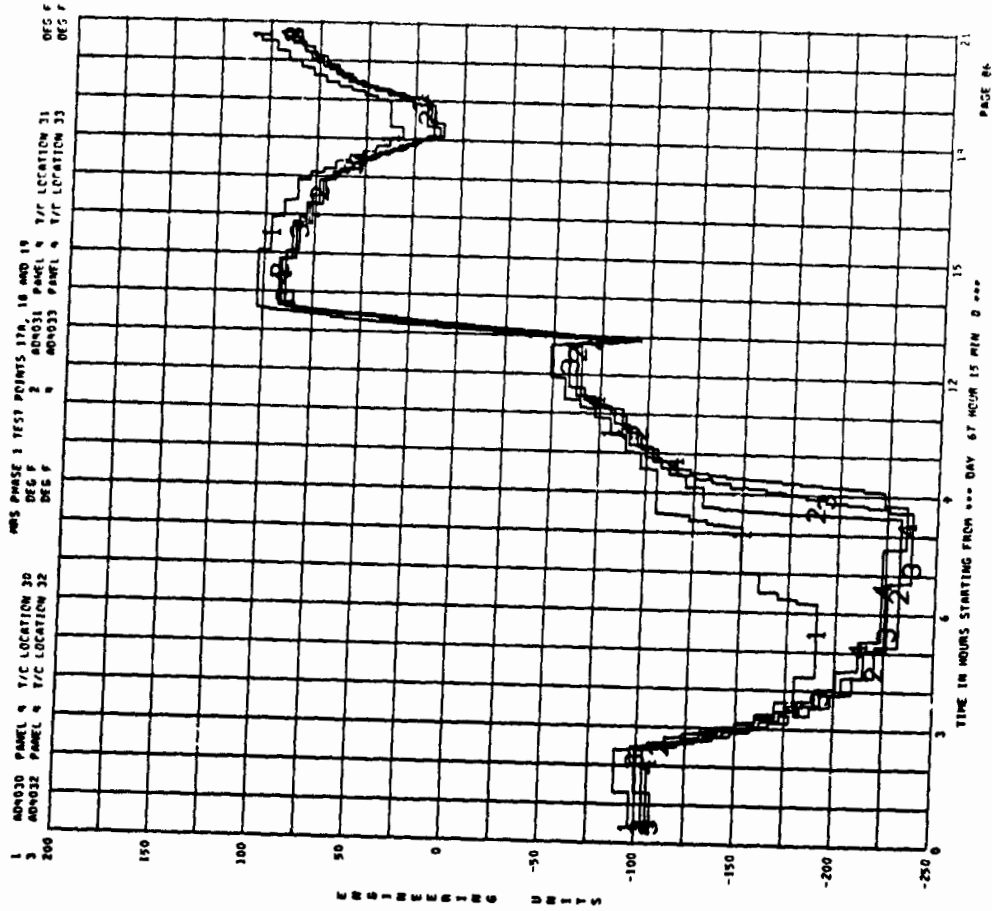
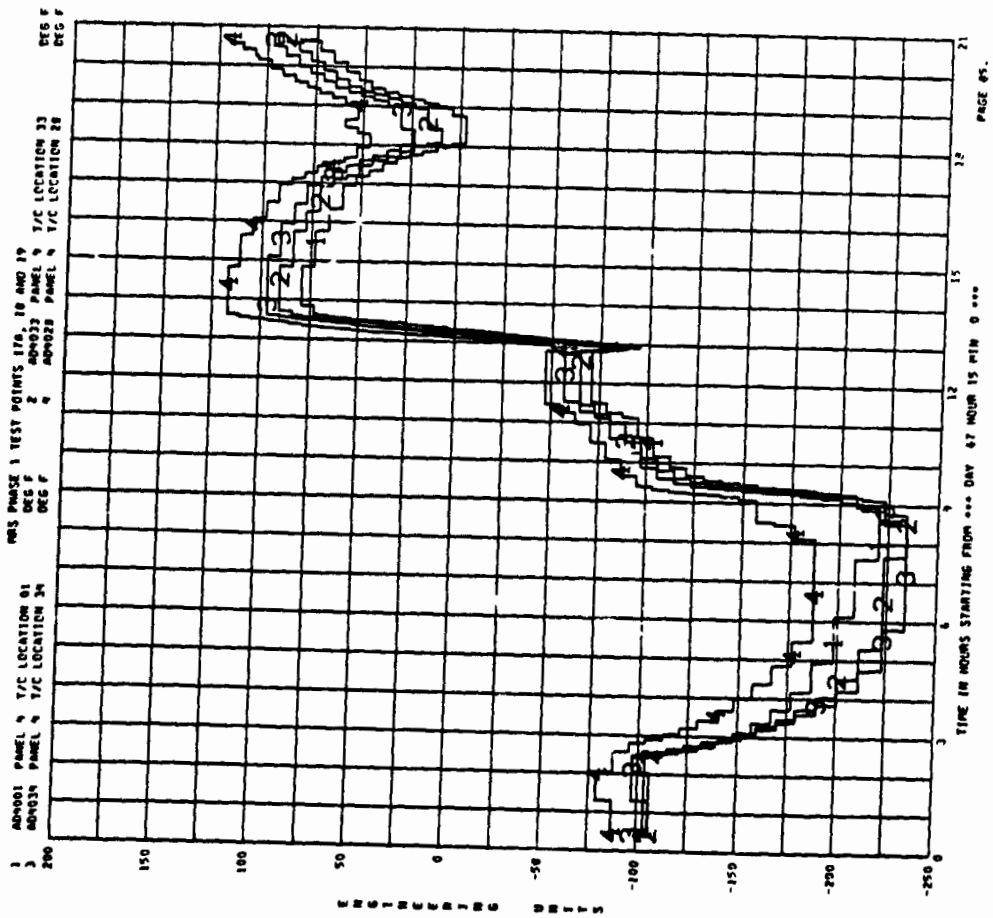




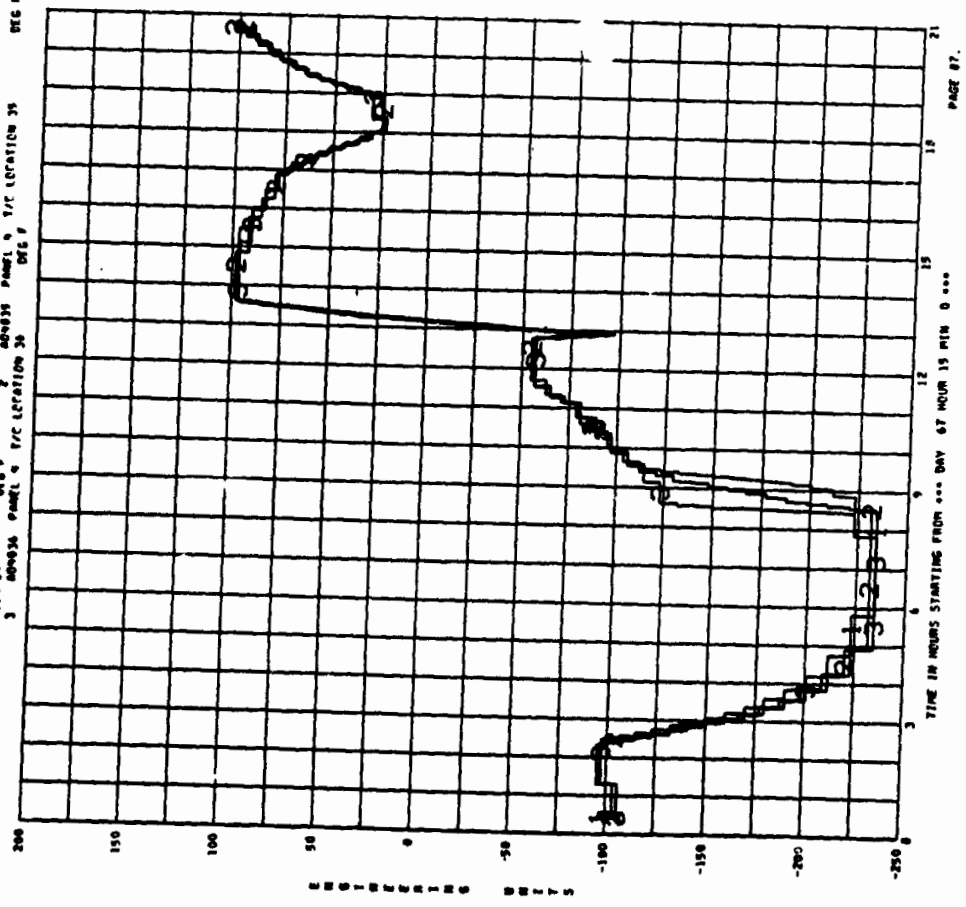




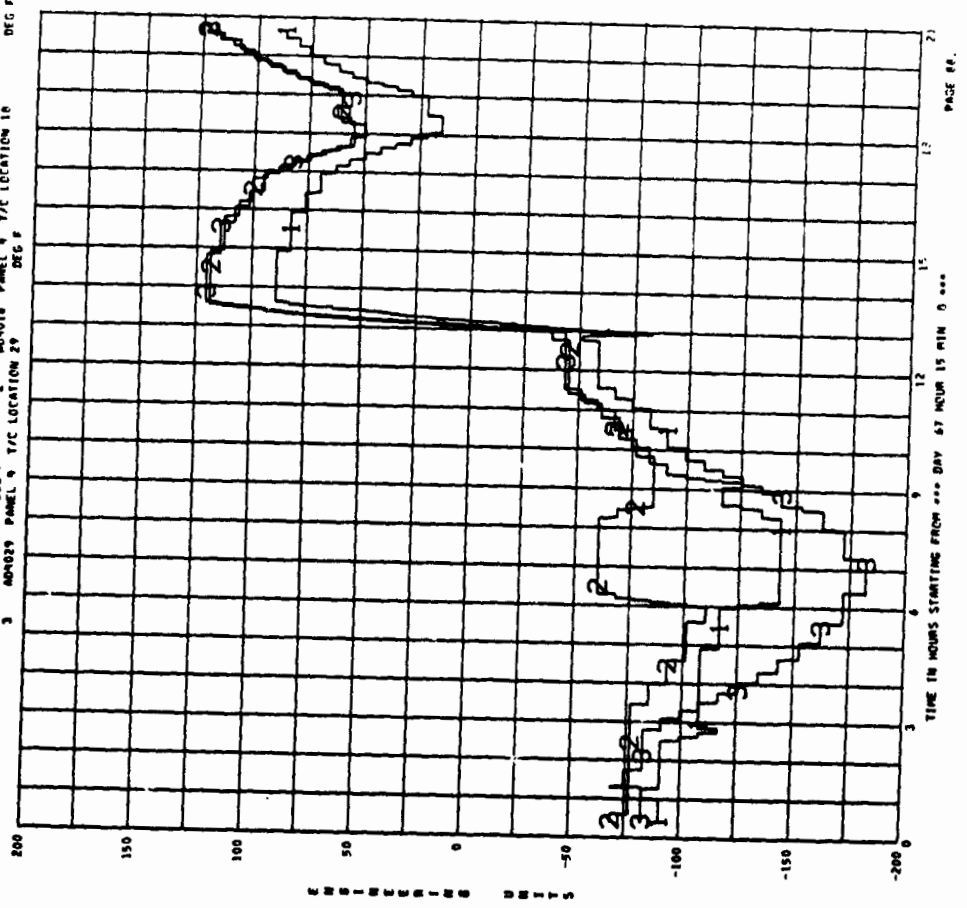


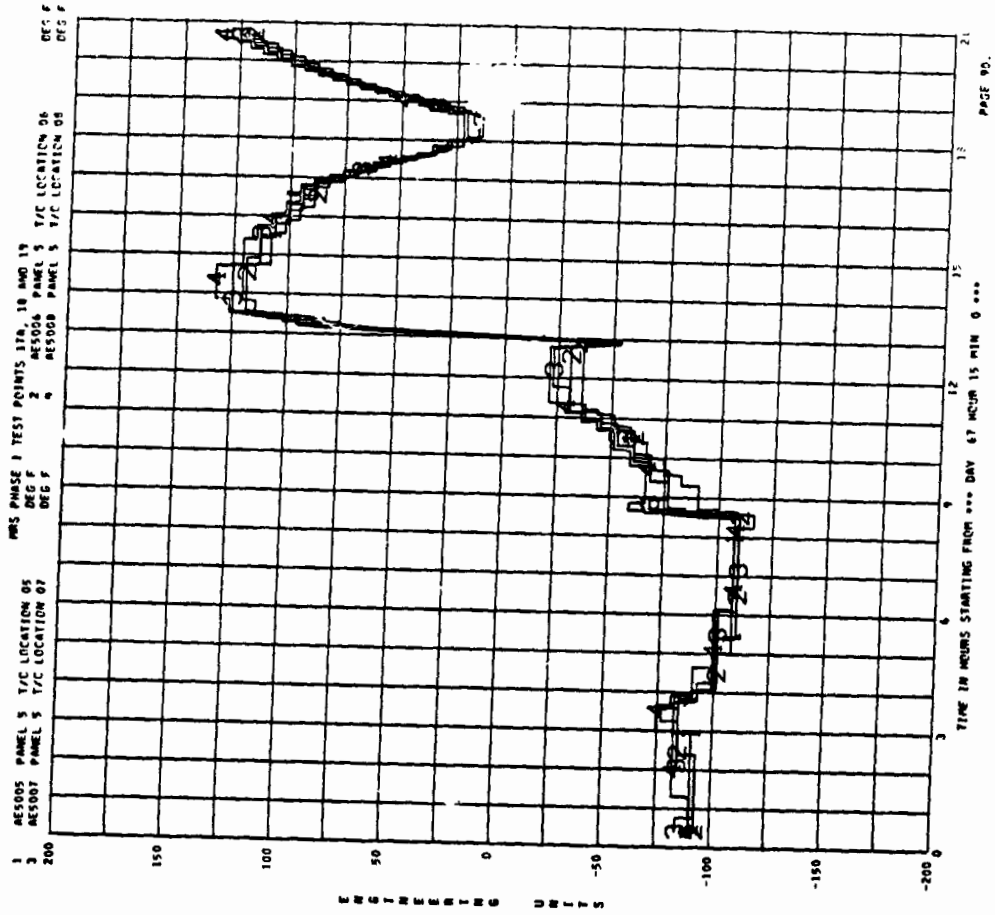
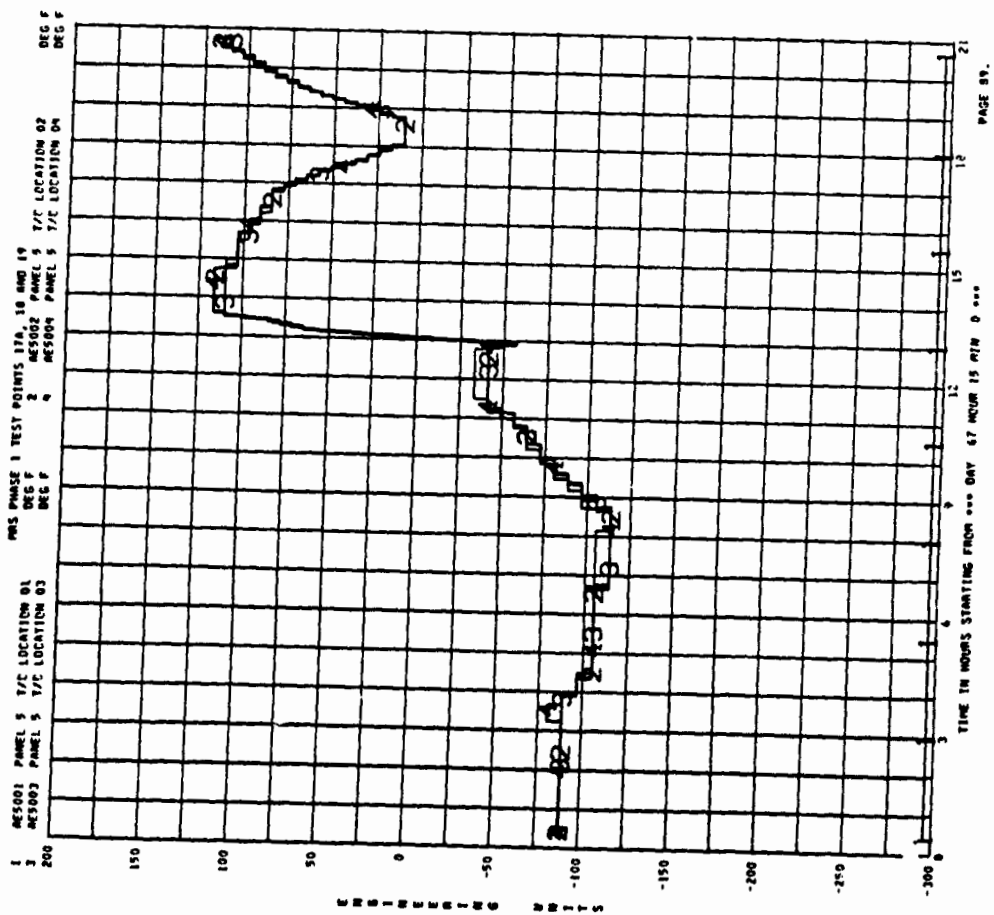


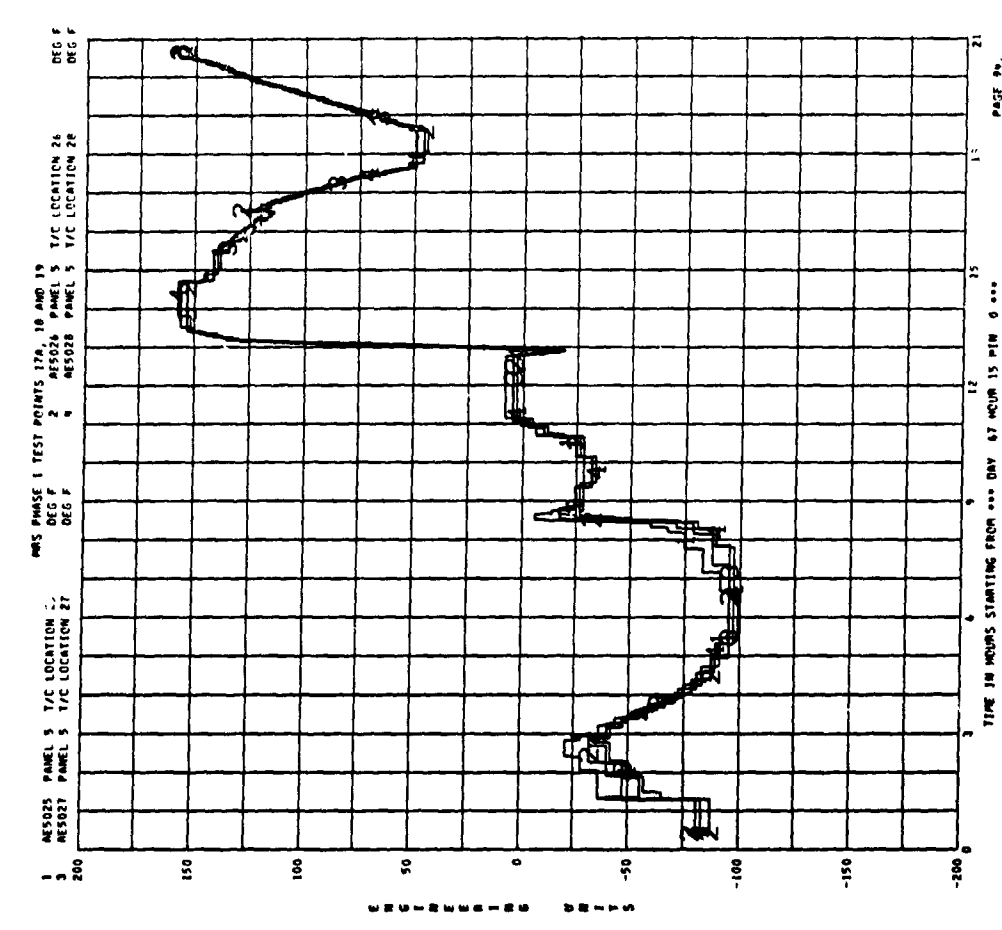
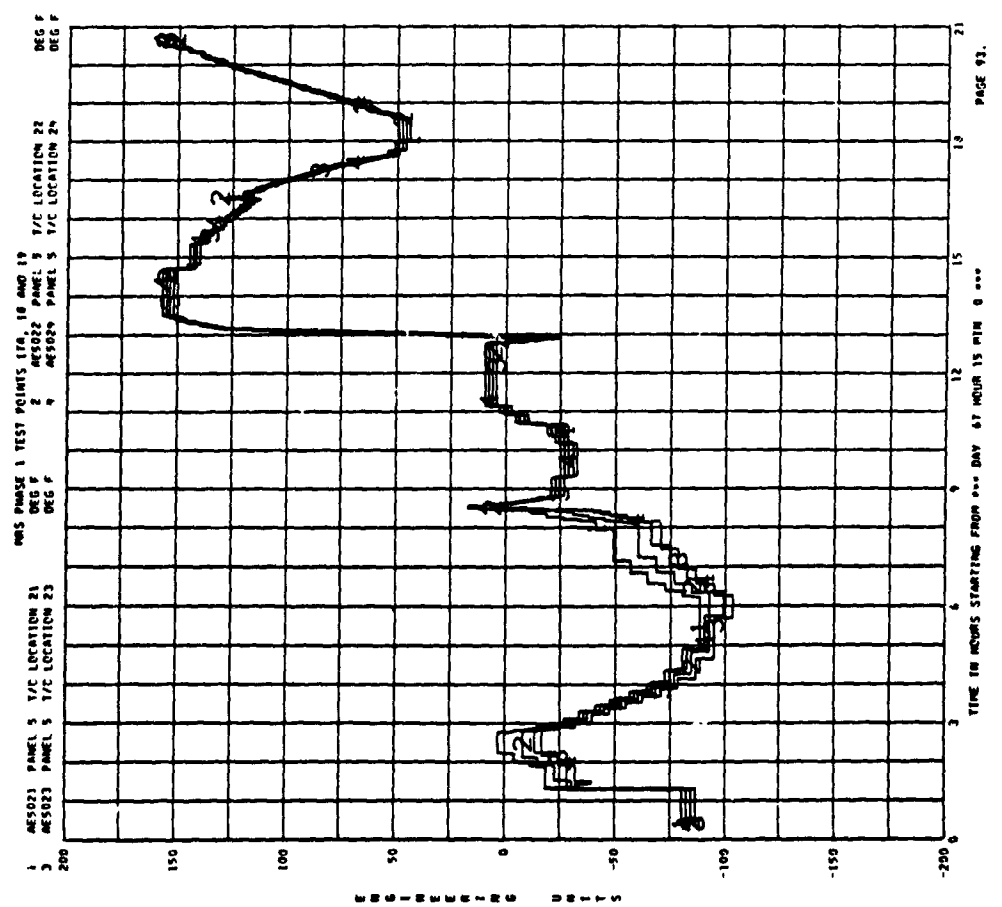
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 2 404034 PANEL 4 T/C LOCATION 30
 3 404034 PANEL 4 T/C LOCATION 30
 DEG F



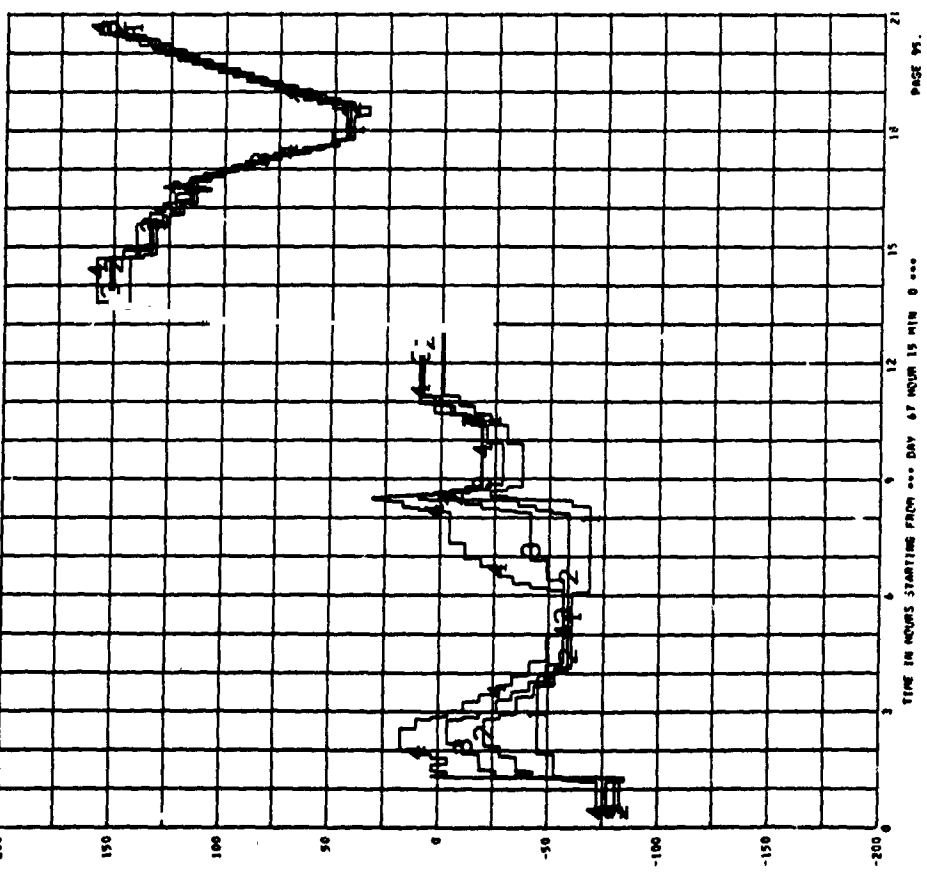
1 404011 PANEL 4 T/C LOCATION 11
 2 404011 PANEL 4 T/C LOCATION 11
 3 404011 PANEL 4 T/C LOCATION 11
 DEG F



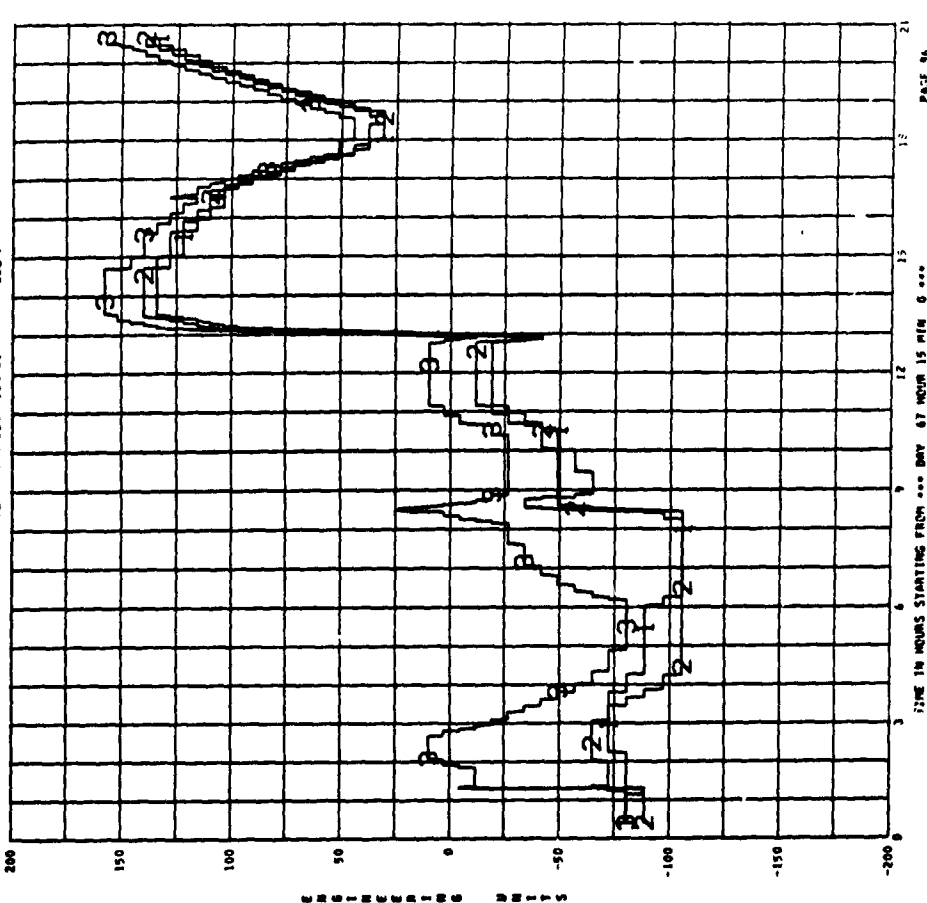


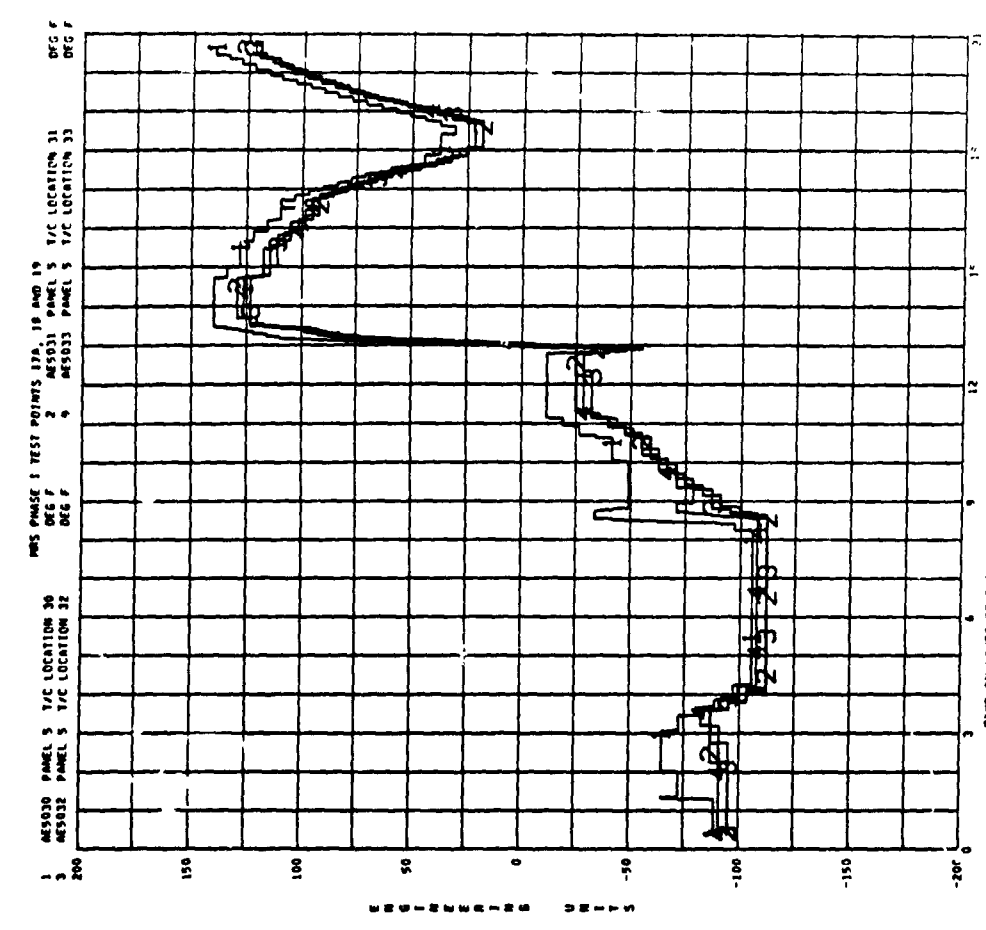
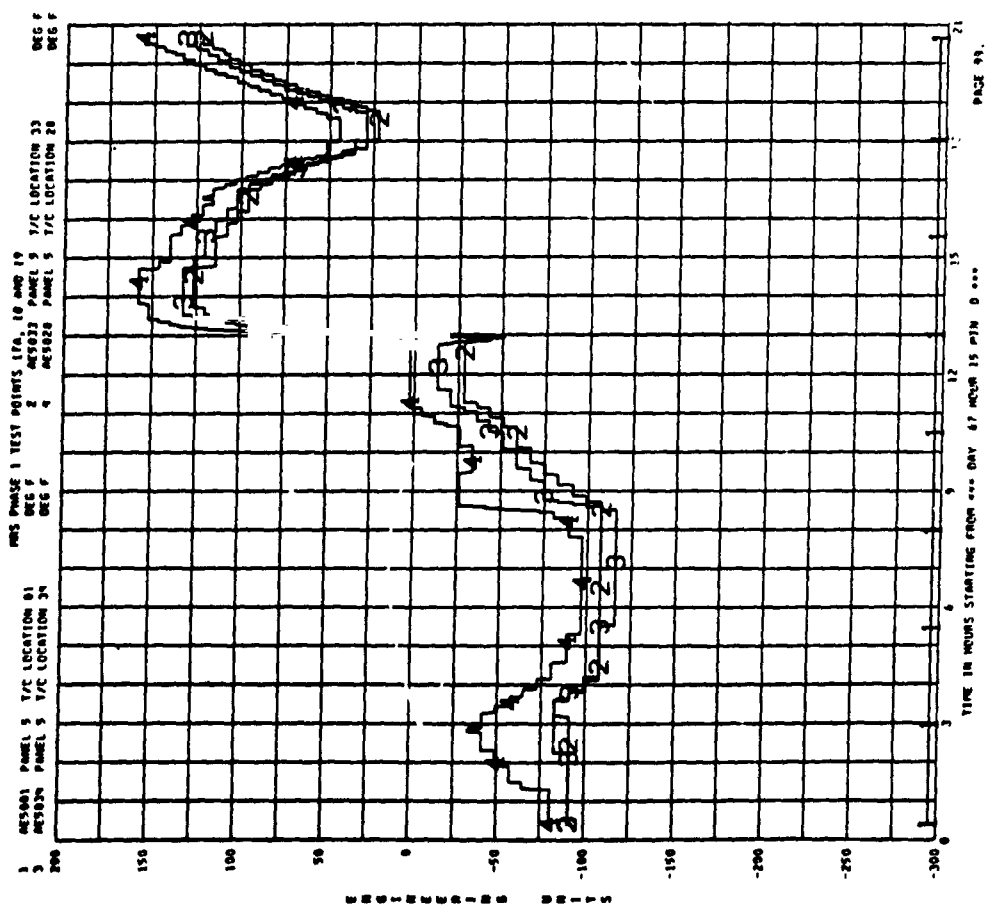


1 MES012 PANEL 5 T/C LOCATION 12
 2 MES016 PANEL 5 T/C LOCATION 16
 3 MES017 PANEL 5 T/C LOCATION 17
 4 MES015 PANEL 5 T/C LOCATION 15
 5 MES018 PANEL 5 T/C LOCATION 18
 6 MES019 PANEL 5 T/C LOCATION 19
 7 DEG F
 8 DEG F
 9 DEG F

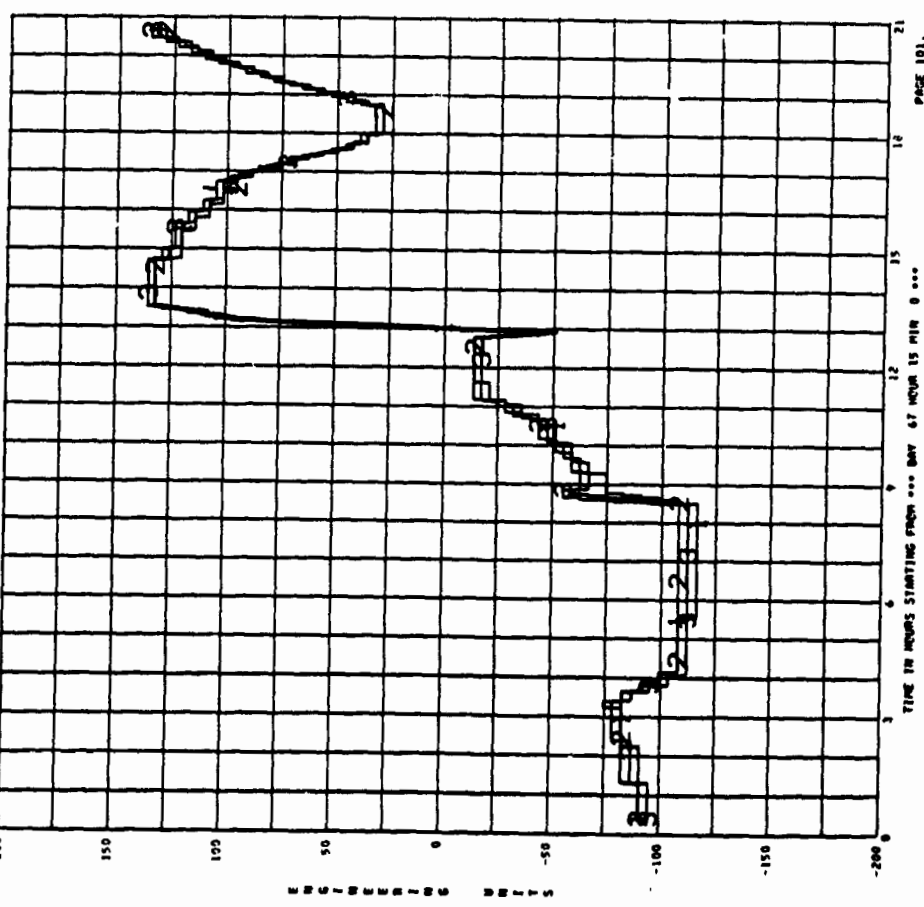


1 MES009 PANEL 5 T/C LOCATION 09
 2 MES020 PANEL 5 T/C LOCATION 20
 3 MES020 PANEL 5 T/C LOCATION 20
 4 MES020 PANEL 5 T/C LOCATION 20
 5 MES020 PANEL 5 T/C LOCATION 20
 6 MES020 PANEL 5 T/C LOCATION 20
 7 DEG F
 8 DEG F
 9 DEG F

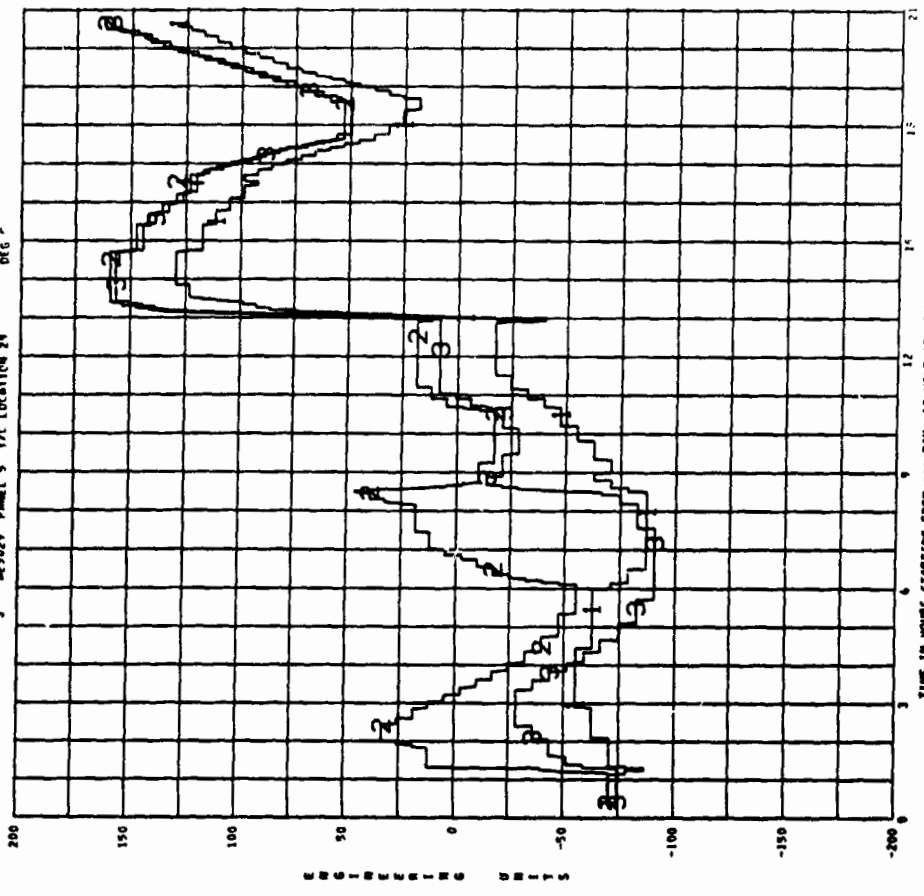


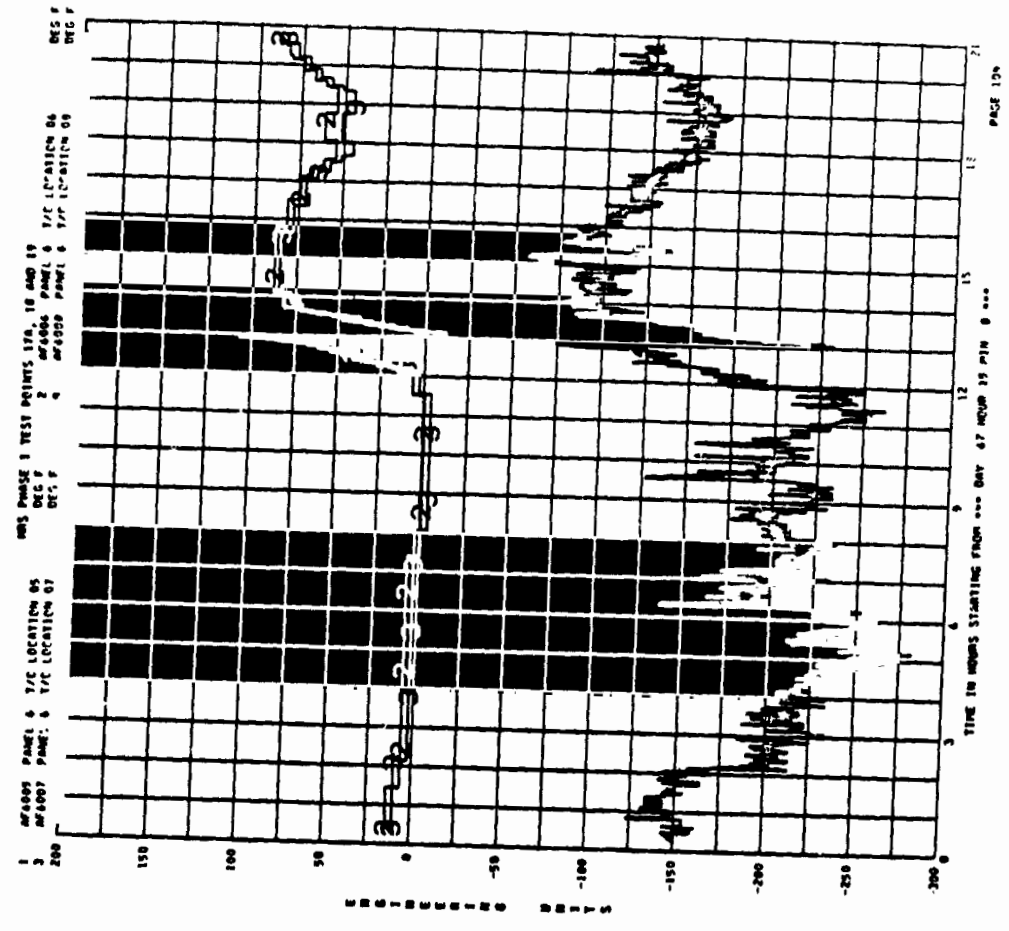
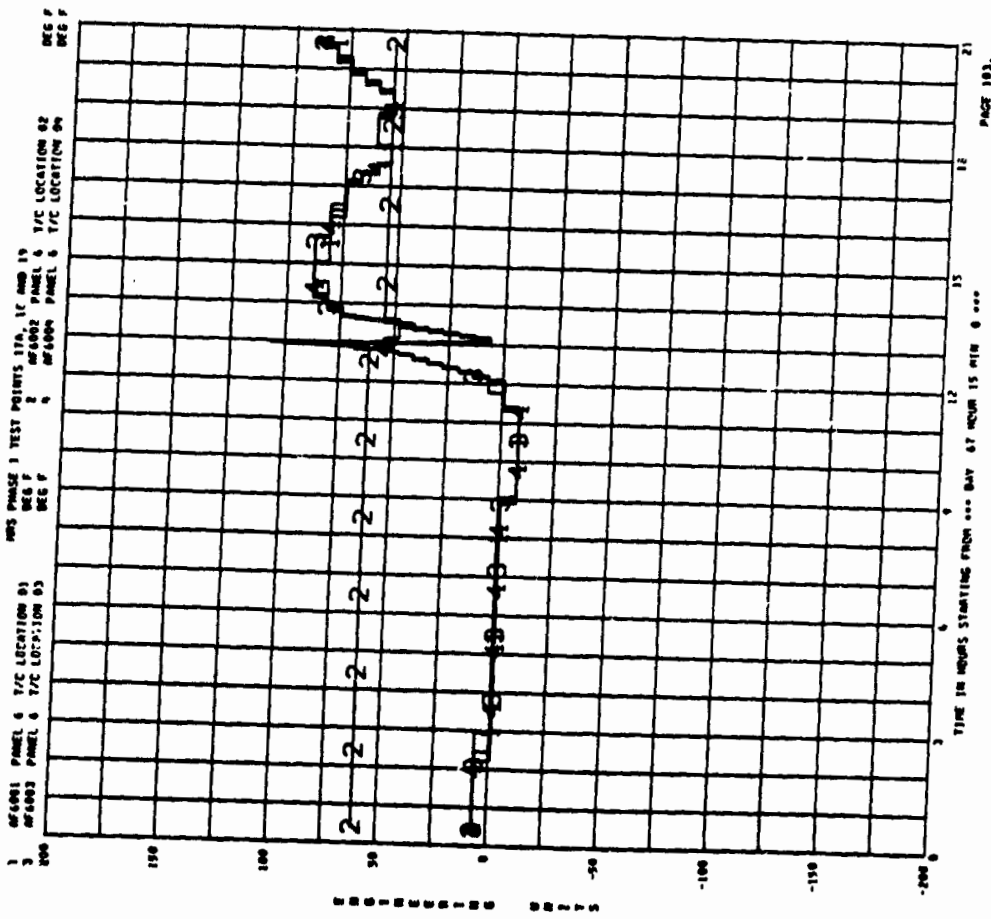


1 MES03N PANEL 5 T/C LOCATION 2N
 2 MES03N PANEL 5 T/C LOCATION 3N
 3 MES03N PANEL 5 T/C LOCATION 3N
 4 MES03N PANEL 5 T/C LOCATION 3N
 5 MES03N PANEL 5 T/C LOCATION 3N
 6 MES03N PANEL 5 T/C LOCATION 3N
 7 MES03N PANEL 5 T/C LOCATION 3N
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 9 MES03N PANEL 5 T/C LOCATION 3N
 10 MES03N PANEL 5 T/C LOCATION 3N
 11 MES03N PANEL 5 T/C LOCATION 3N
 12 MES03N PANEL 5 T/C LOCATION 3N
 13 MES03N PANEL 5 T/C LOCATION 3N
 14 MES03N PANEL 5 T/C LOCATION 3N
 15 MES03N PANEL 5 T/C LOCATION 3N
 16 MES03N PANEL 5 T/C LOCATION 3N
 17 MES03N PANEL 5 T/C LOCATION 3N
 18 MES03N PANEL 5 T/C LOCATION 3N
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 21 MES03N PANEL 5 T/C LOCATION 3N



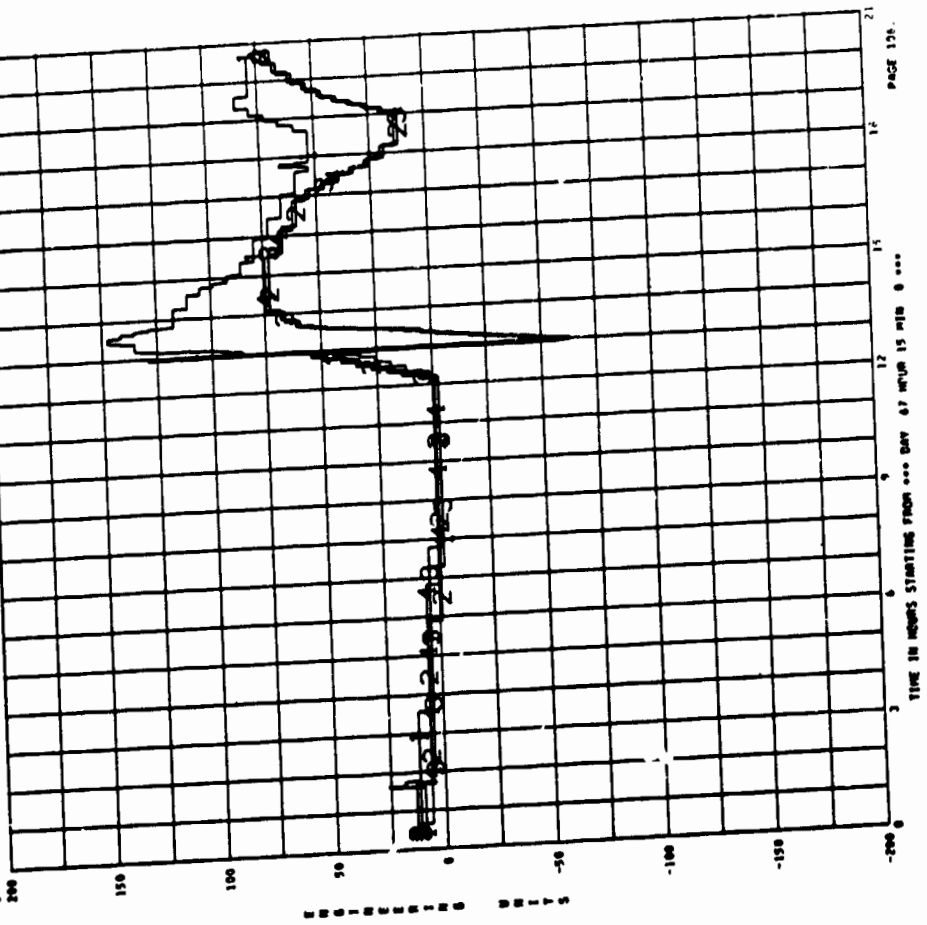
1 MES011 PANEL 5 T/C LOCATION 11
 2 MES011 PANEL 5 T/C LOCATION 11
 3 MES011 PANEL 5 T/C LOCATION 11
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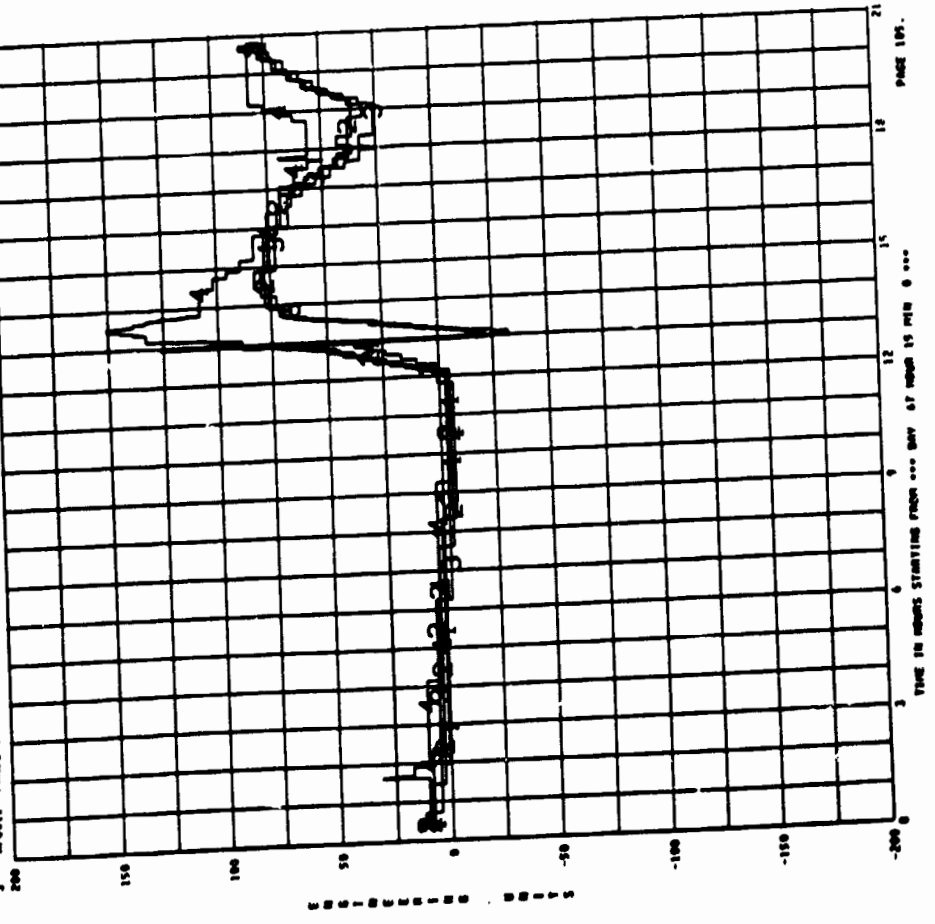
WMS PHASE I TEST POINTS 17A, 19 AND 19
 DEC F 1967 PANEL 6 T/C LOCATION 17
 DEC F 1967 PANEL 6 T/C LOCATION 25
 DEC F 1967 PANEL 6 T/C LOCATION 25

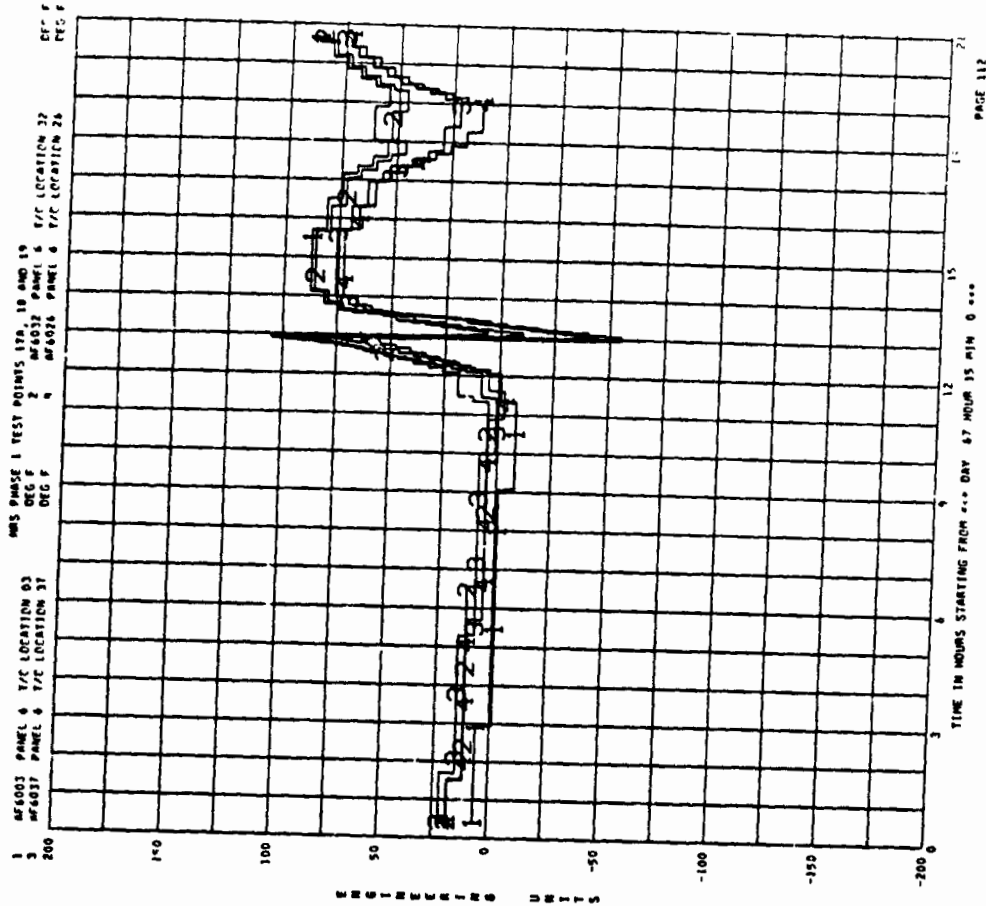
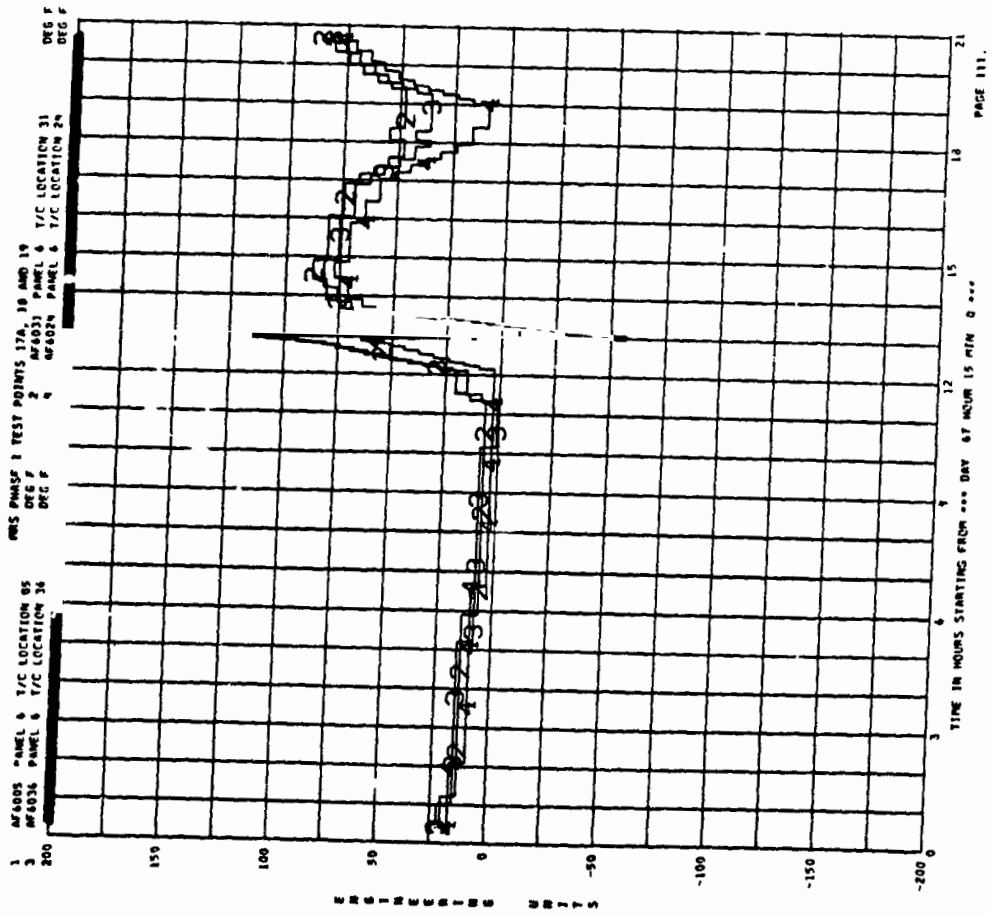
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 2. WMS010 PANEL 6 T/C LOCATION 19
 3. WMS010 PANEL 6 T/C LOCATION 19

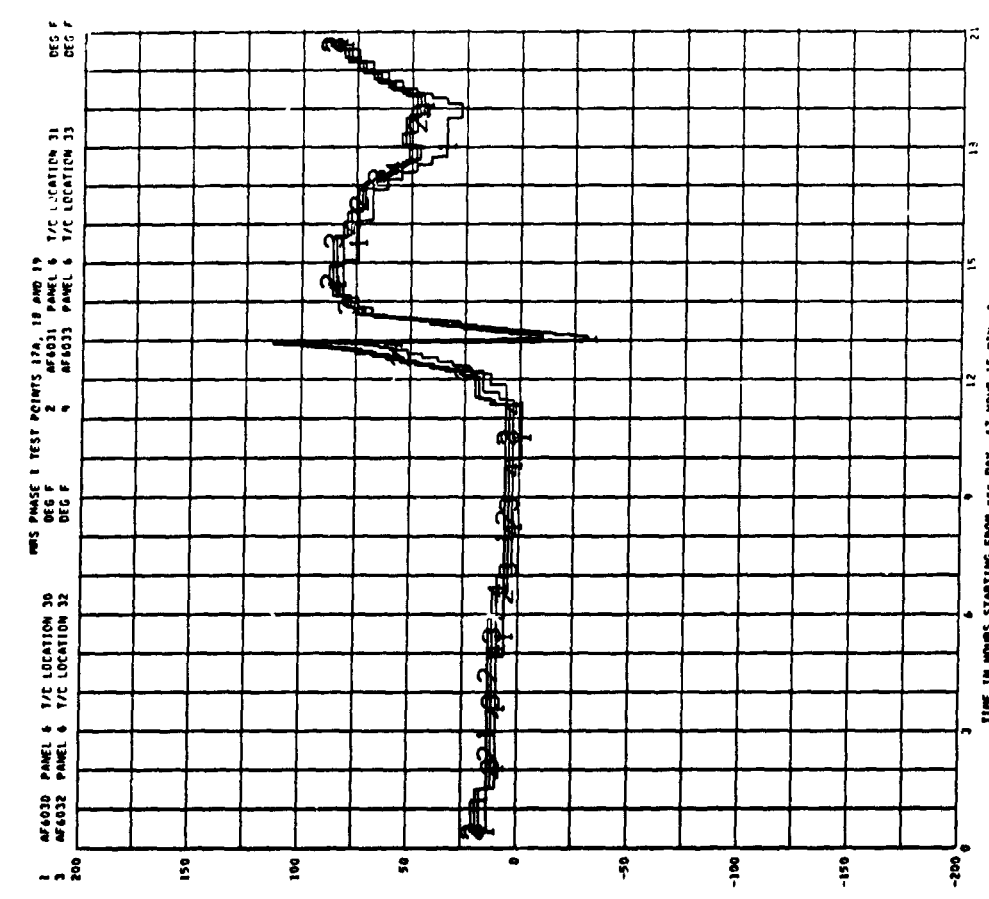
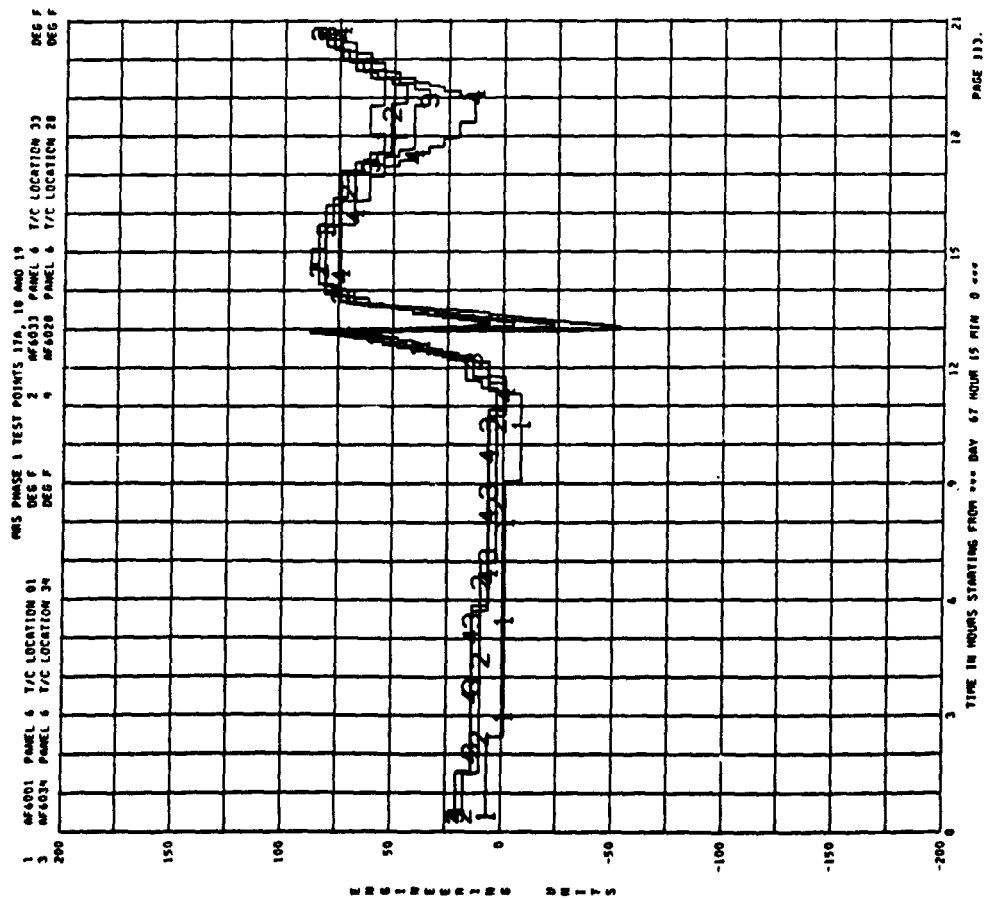


WMS PHASE I TEST POINTS 17A, 19 AND 19
 DEC F 1967 PANEL 6 T/C LOCATION 19
 DEC F 1967 PANEL 6 T/C LOCATION 13
 DEC F 1967 PANEL 6 T/C LOCATION 13

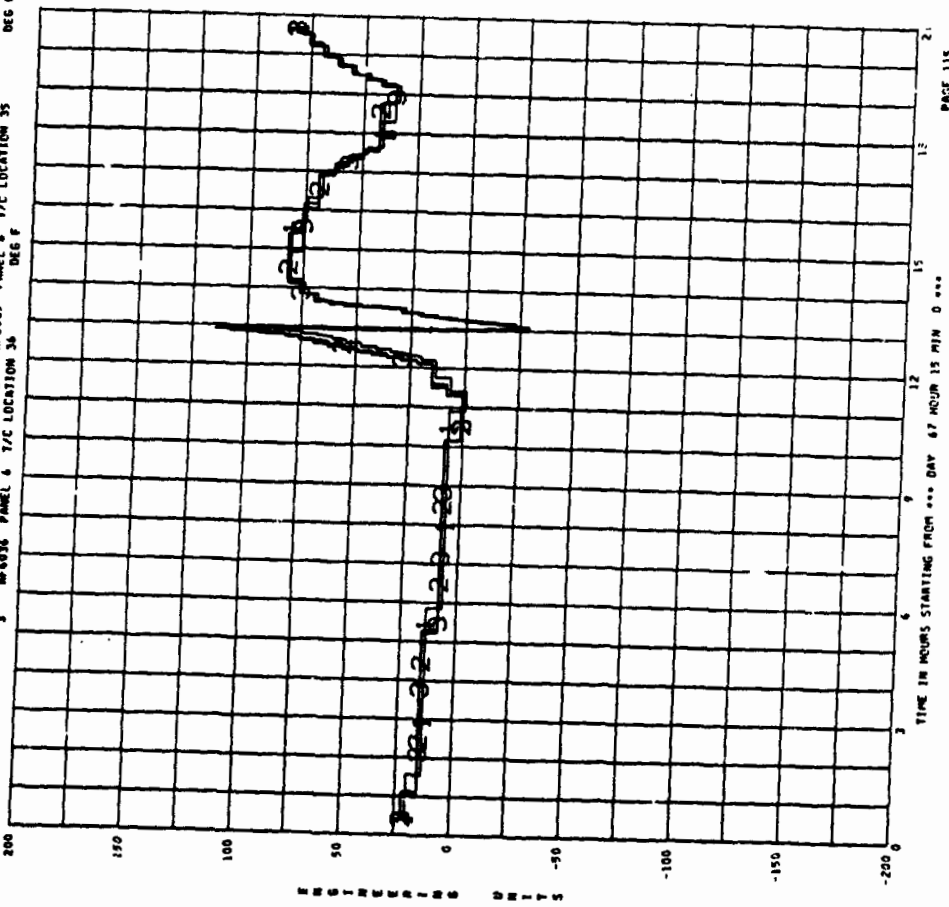
1. WMS010 PANEL 6 T/C LOCATION 09
 2. WMS010 PANEL 6 T/C LOCATION 12
 3. WMS010 PANEL 6 T/C LOCATION 12



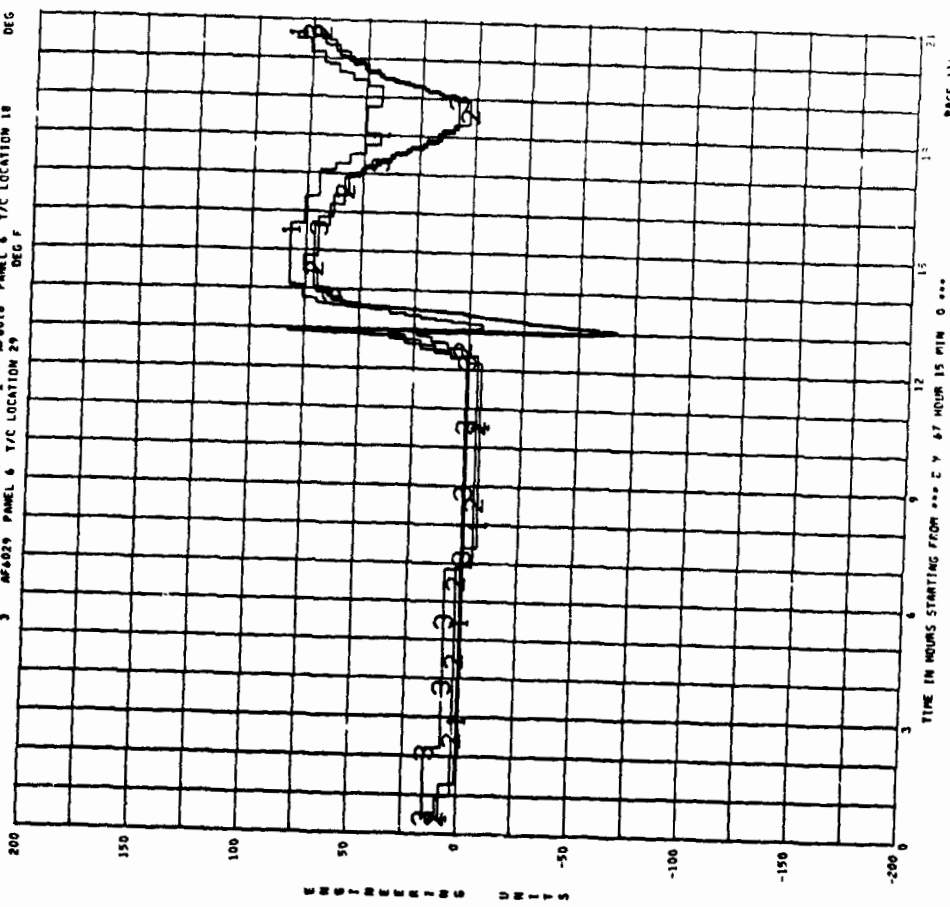


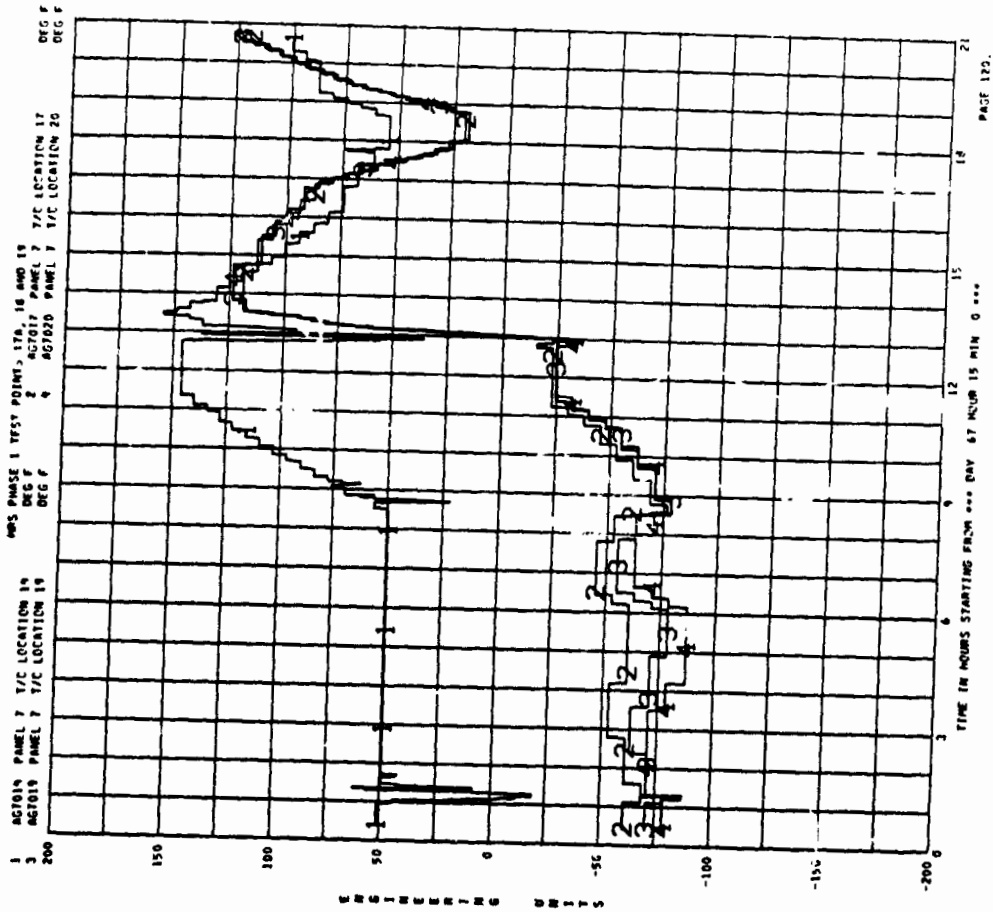
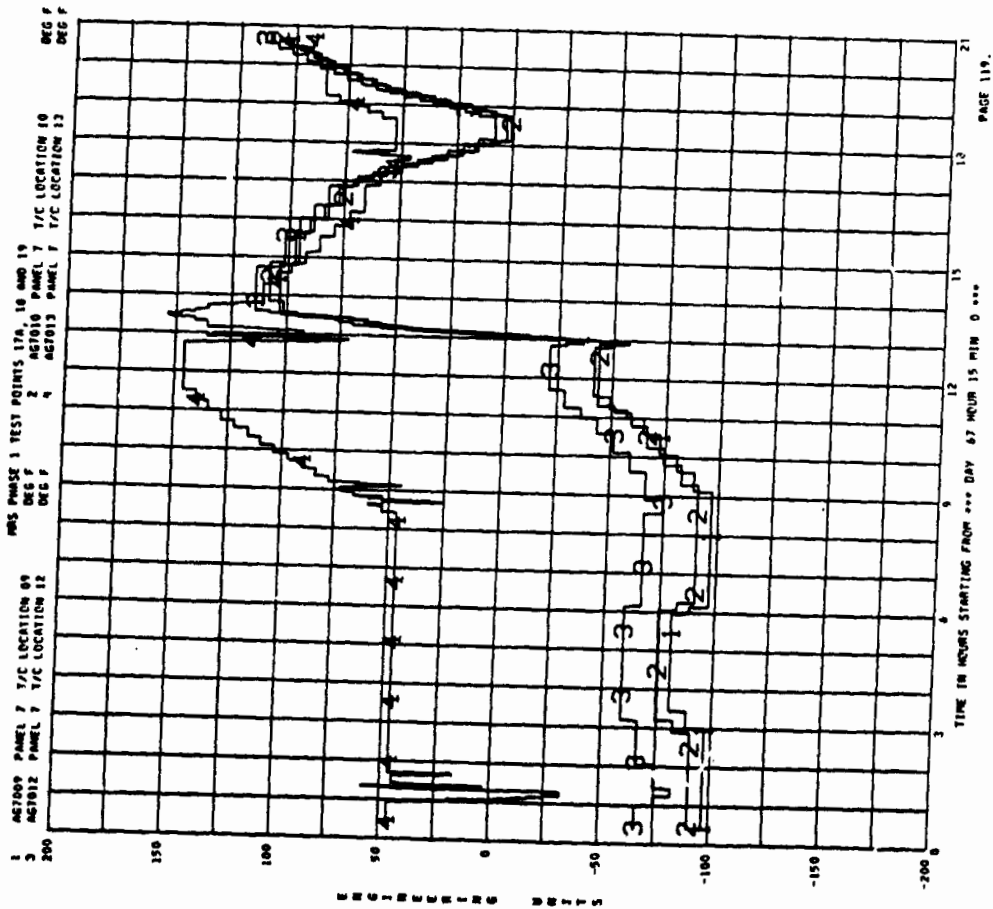


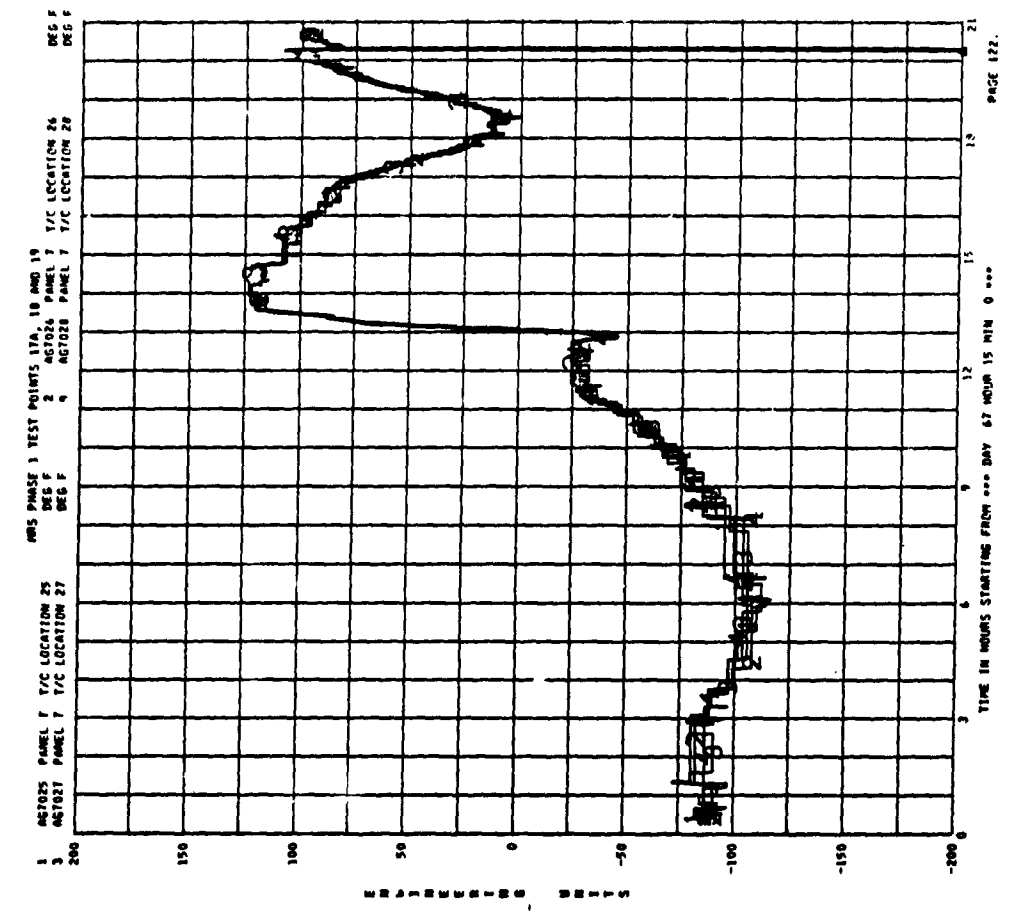
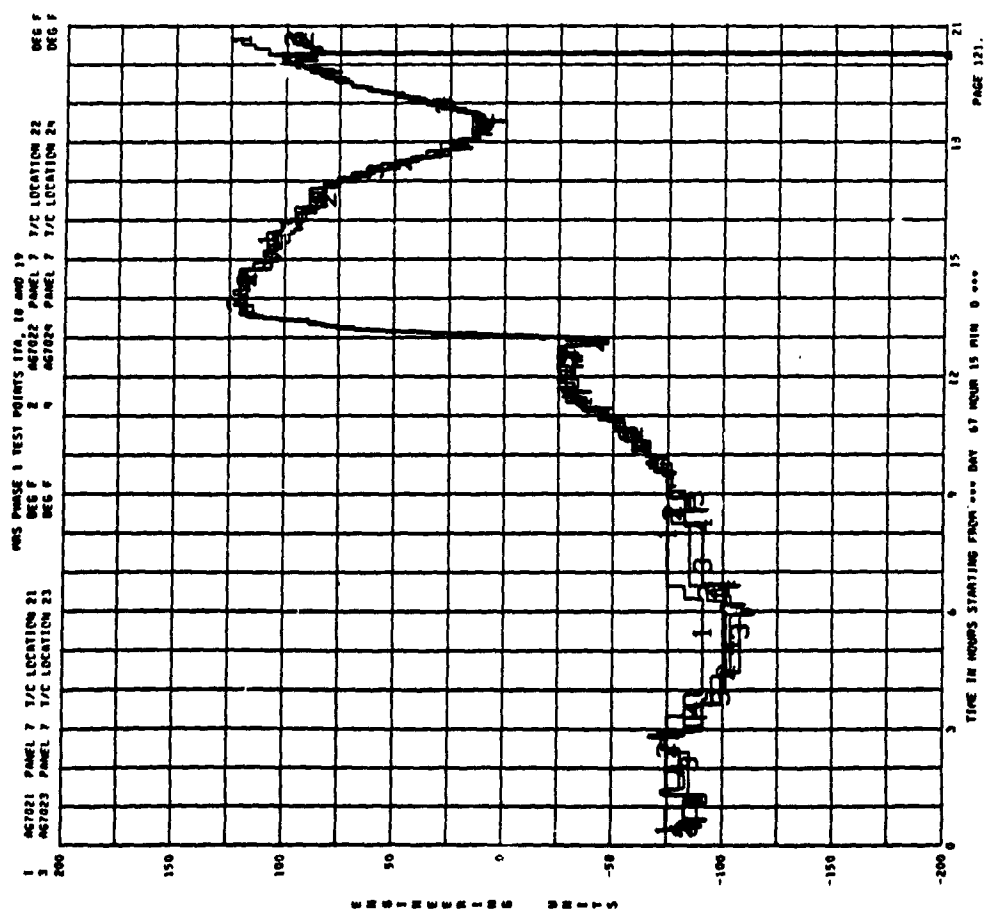
1 AF6024 PANEL 6 T/C LOCATION 34
 2 AF6035 PANEL 6 T/C LOCATION 35
 3 AF6036 PANEL 6 T/C LOCATION 36
 DEG F

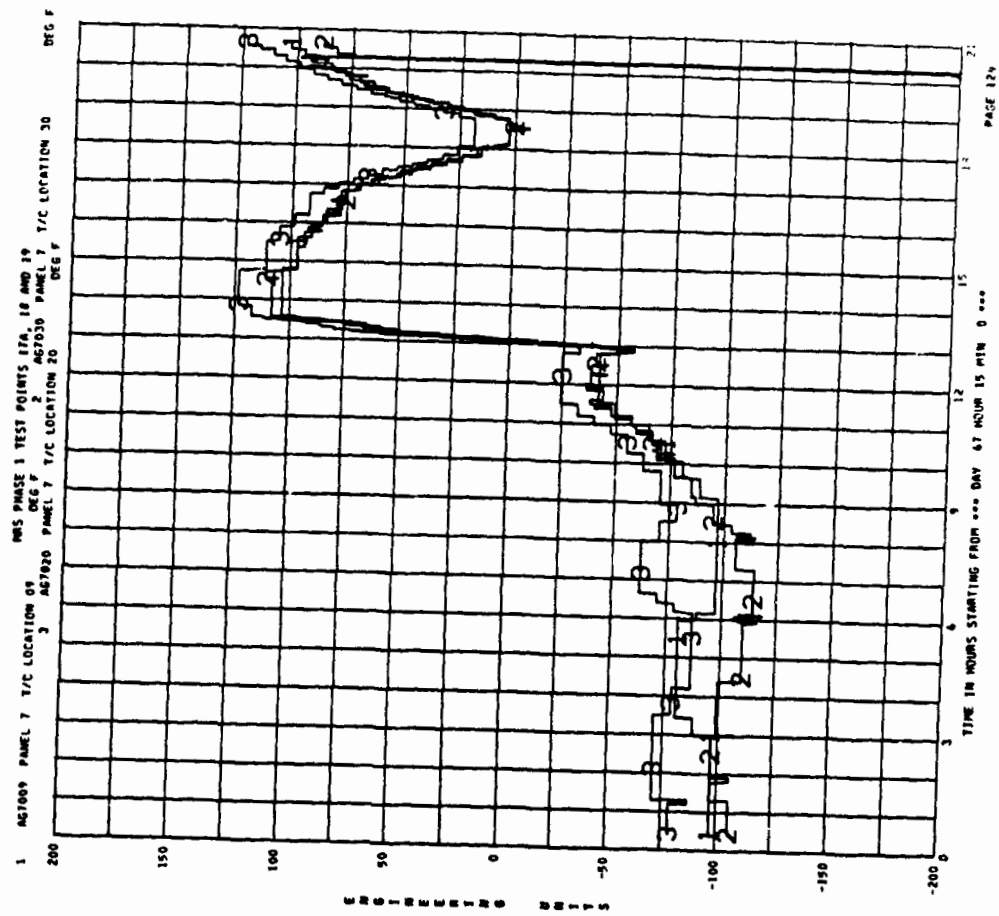
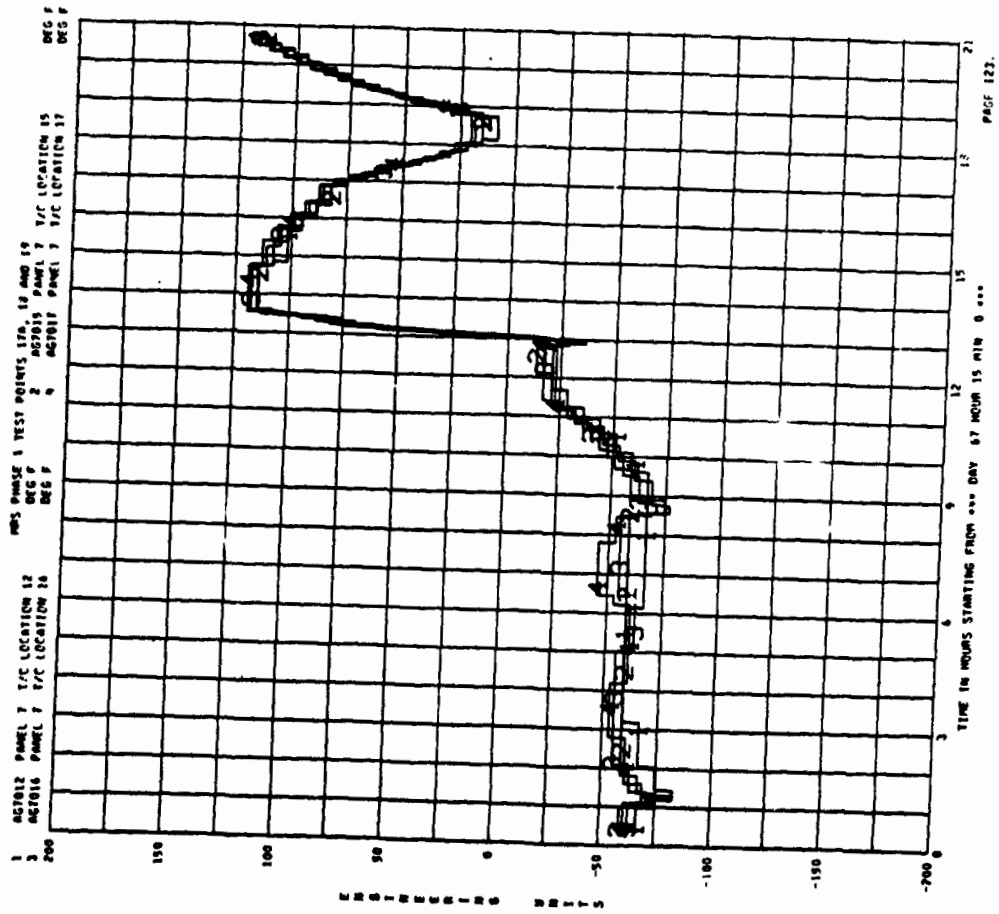


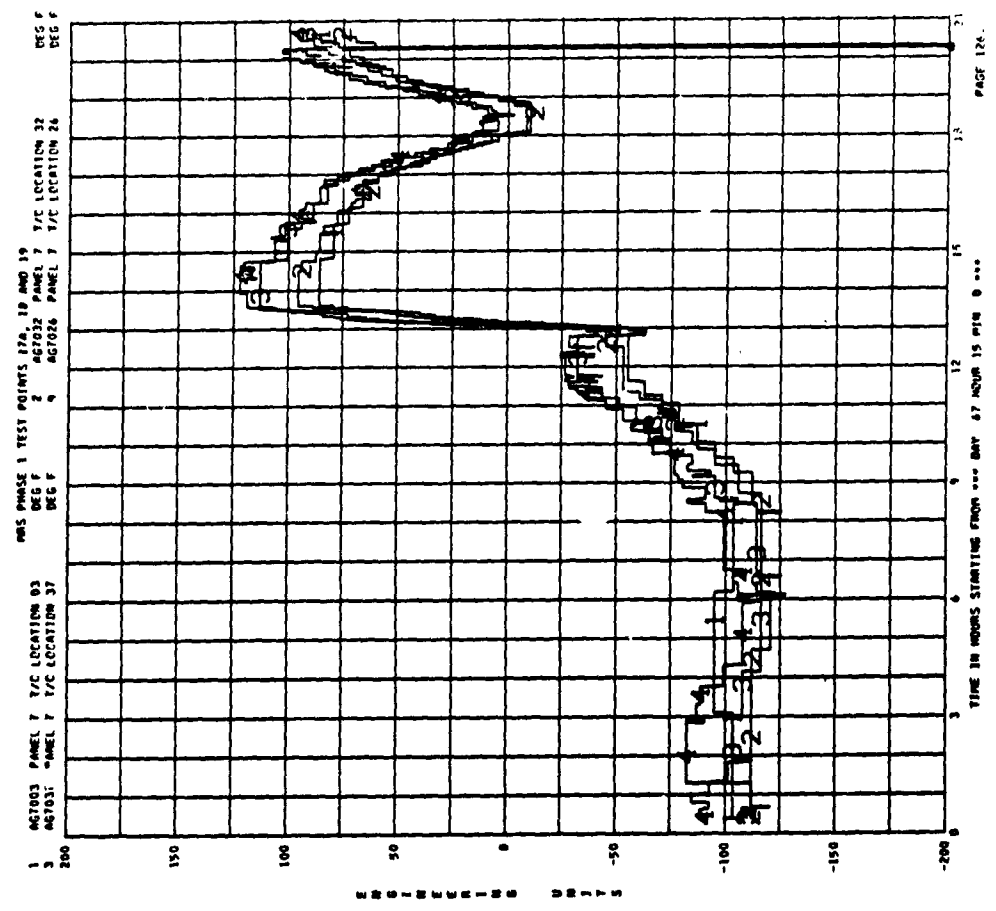
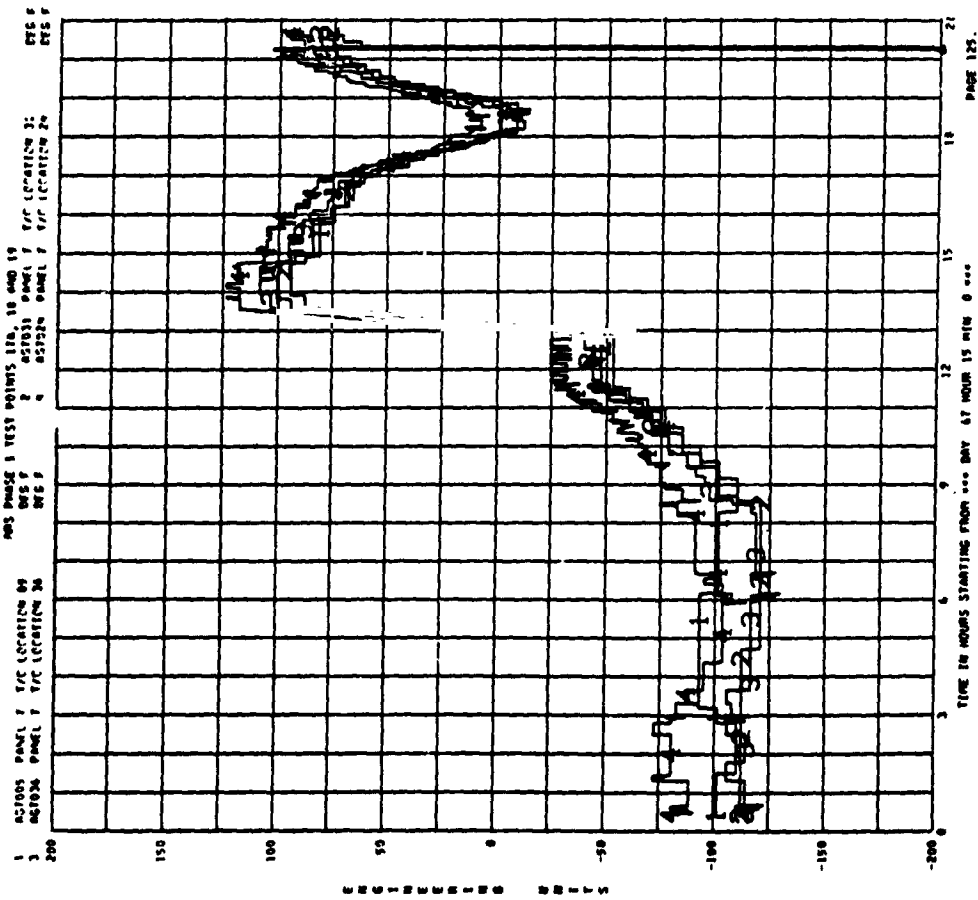
1 AF6011 PANEL 6 T/C LOCATION 11
 2 AF6018 PANEL 6 T/C LOCATION 18
 3 AF6029 PANEL 6 T/C LOCATION 29
 DEG F

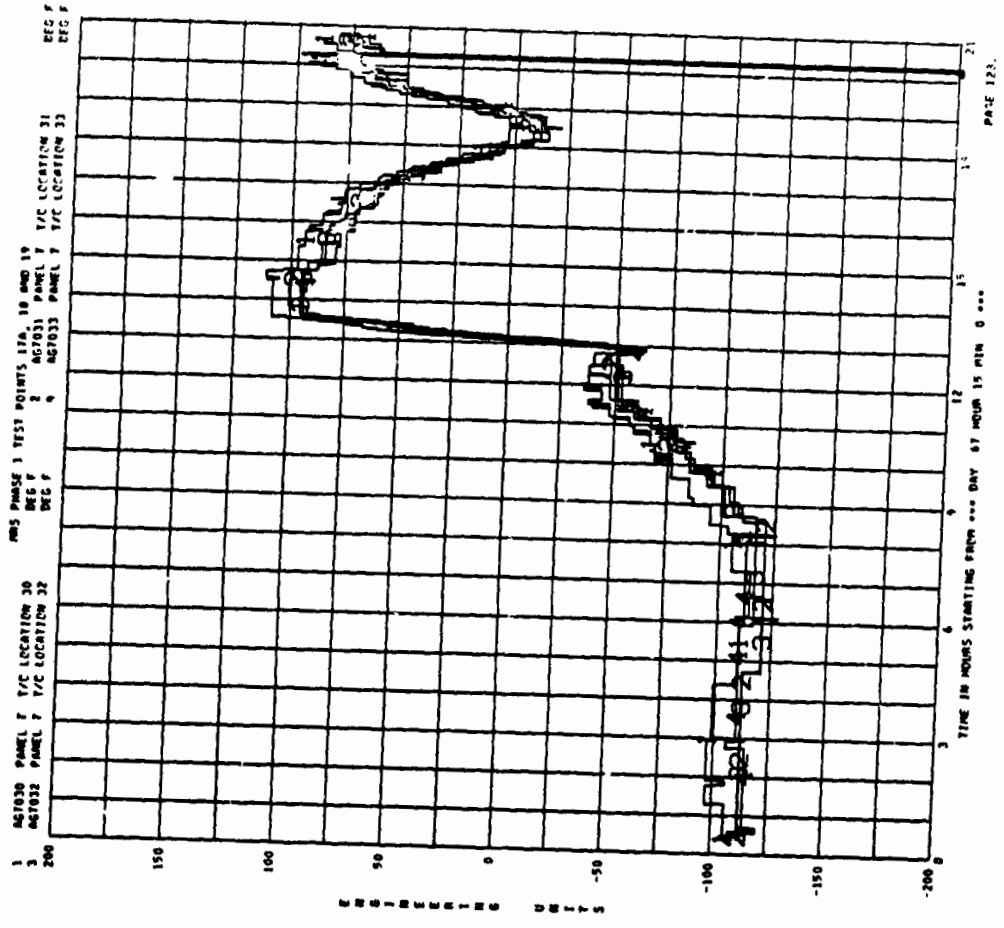
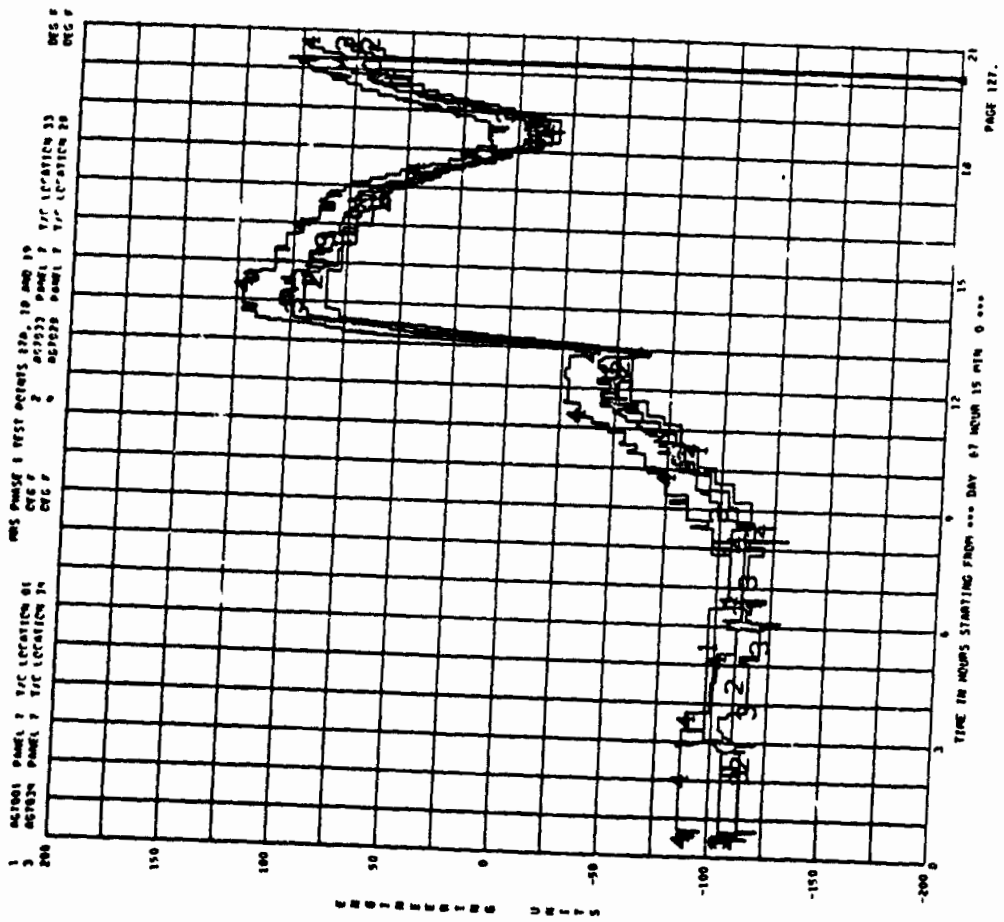


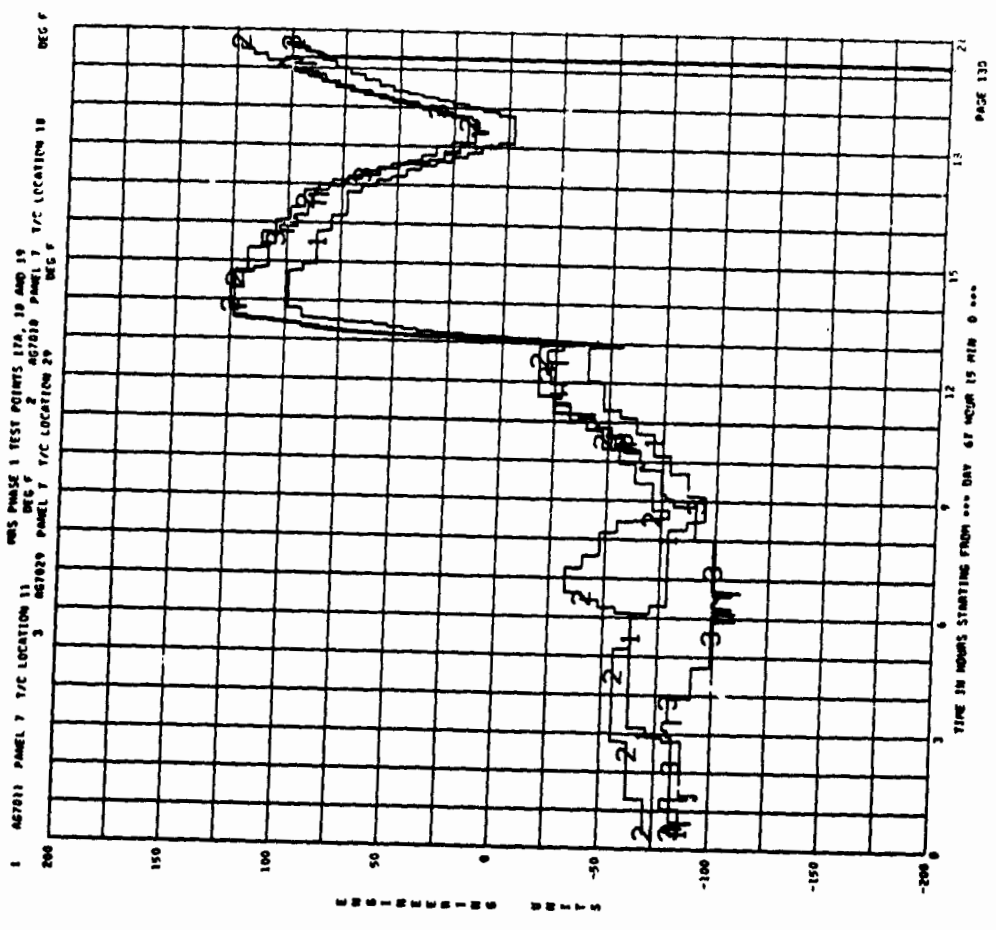
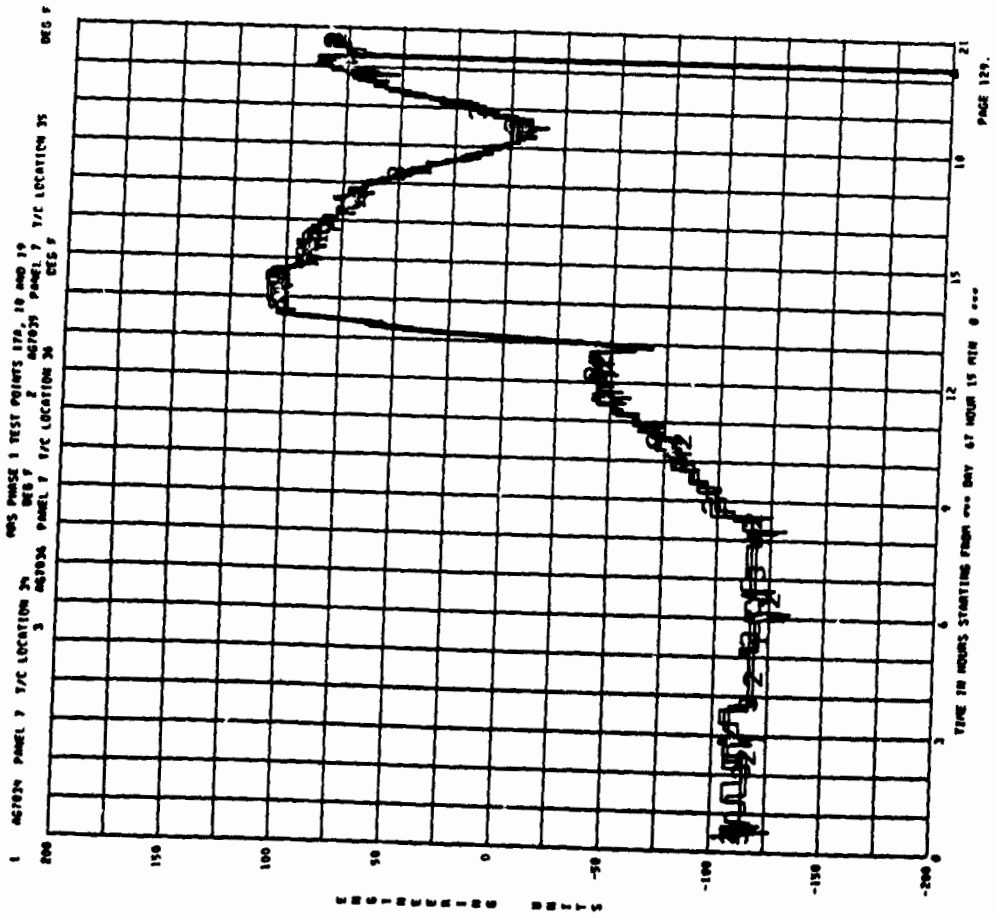


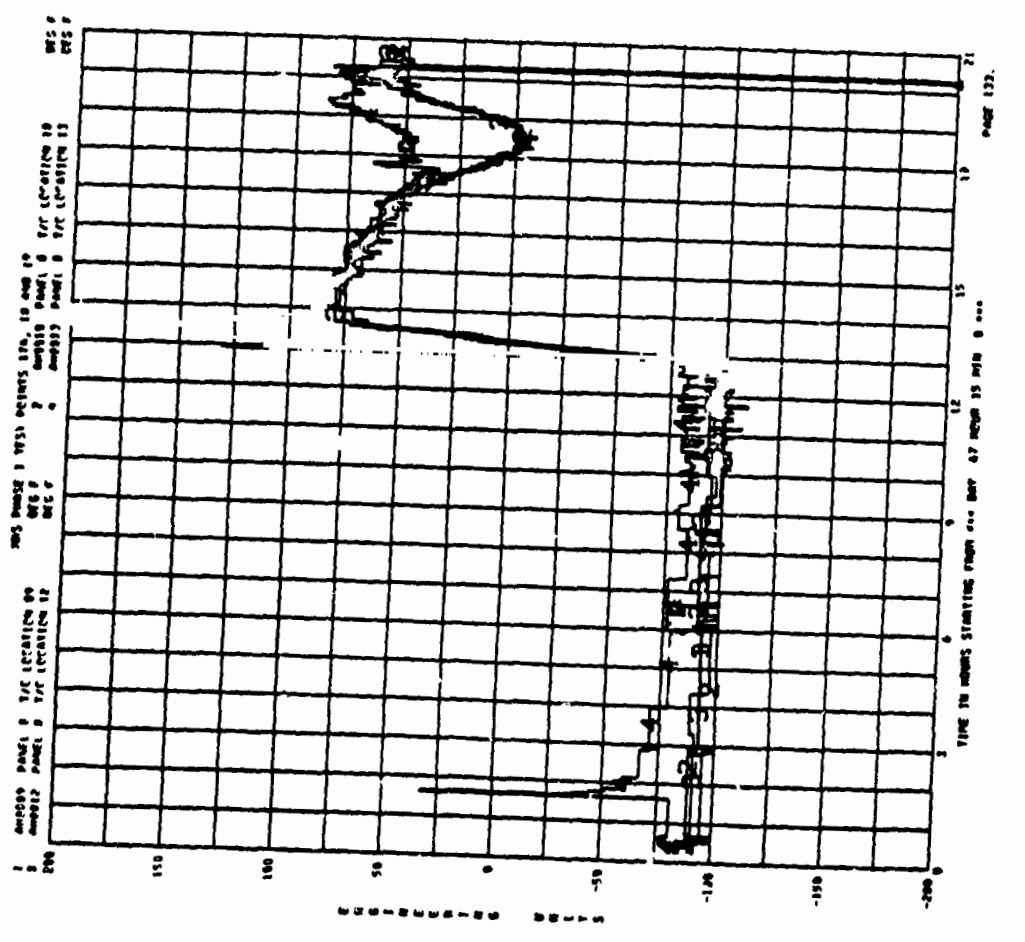
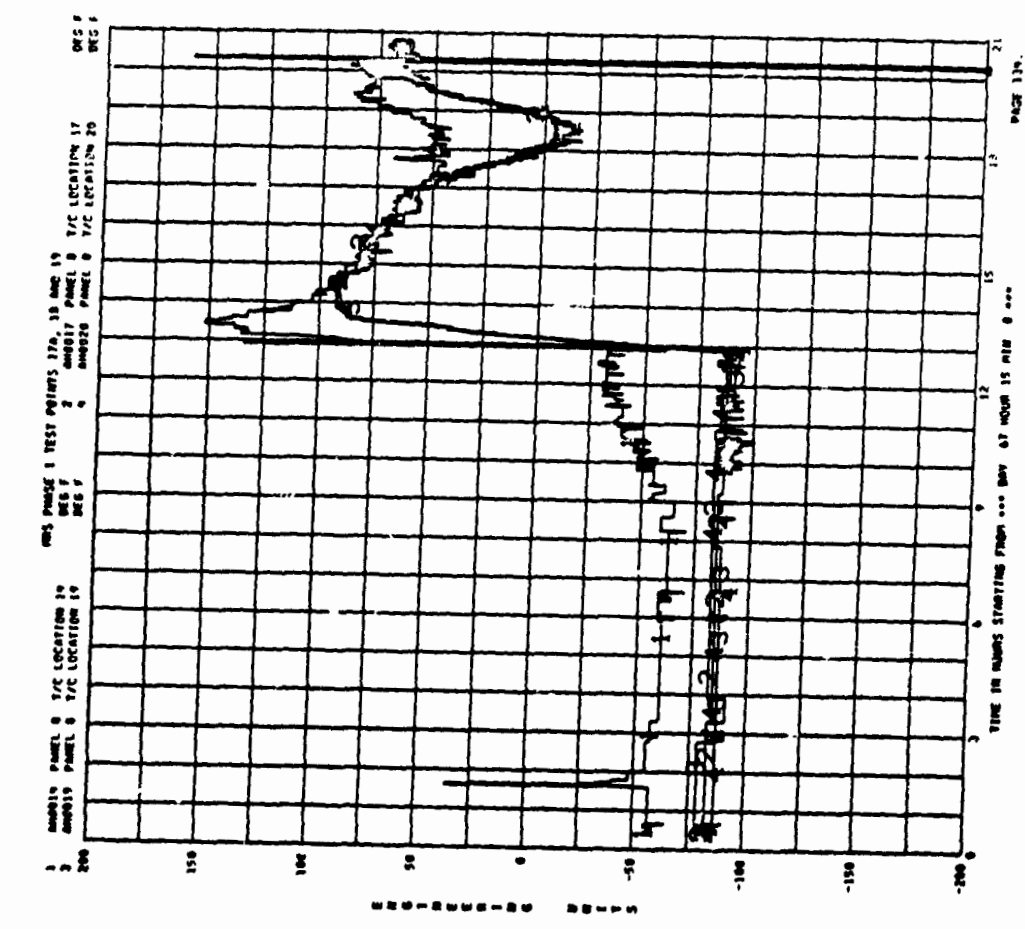


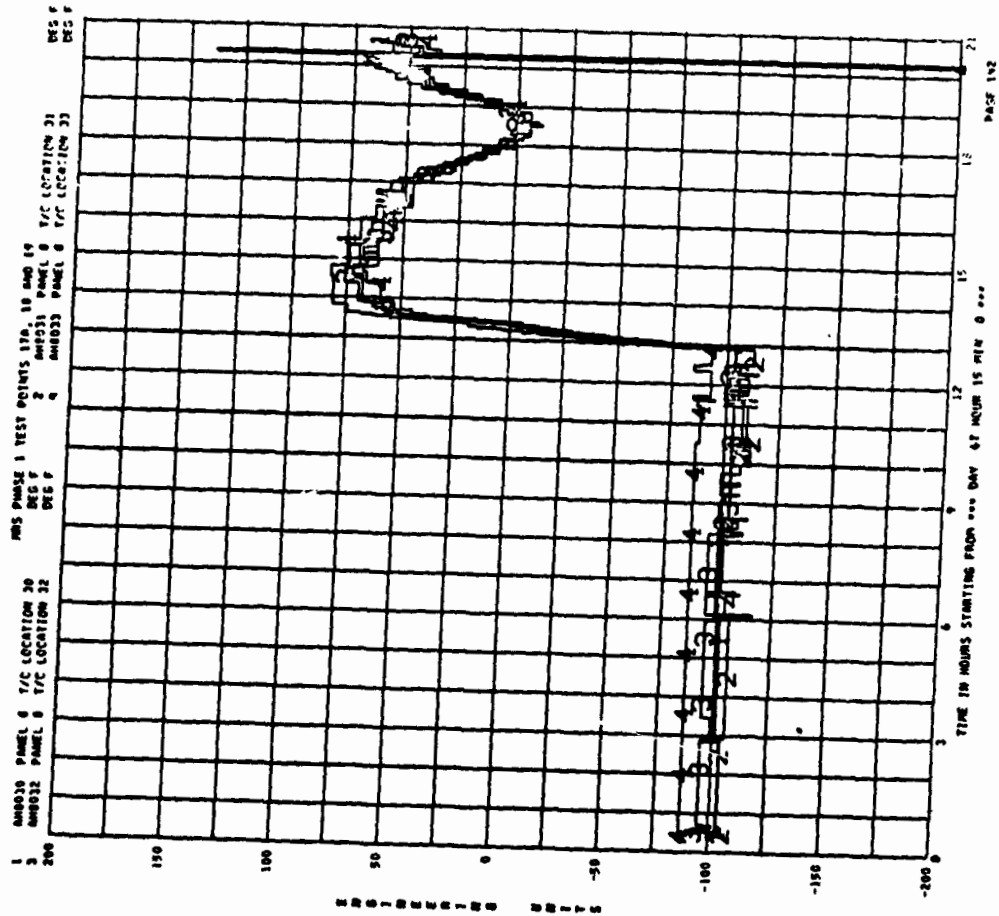
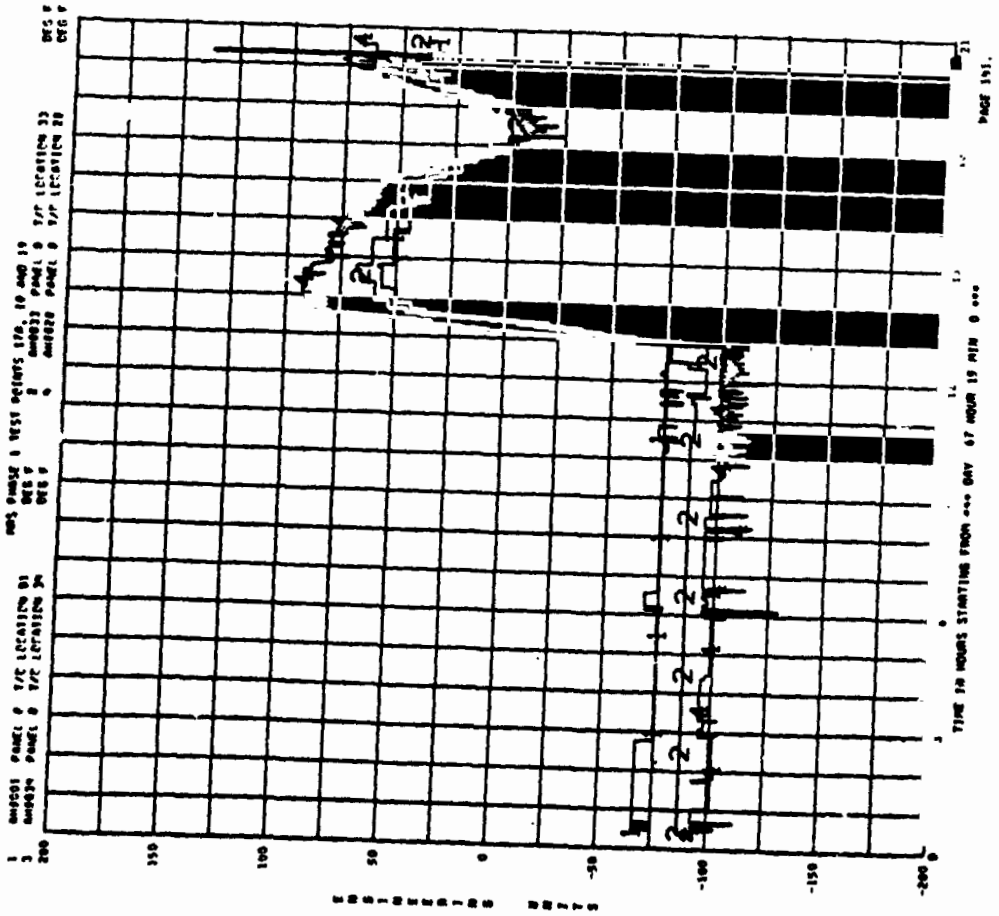






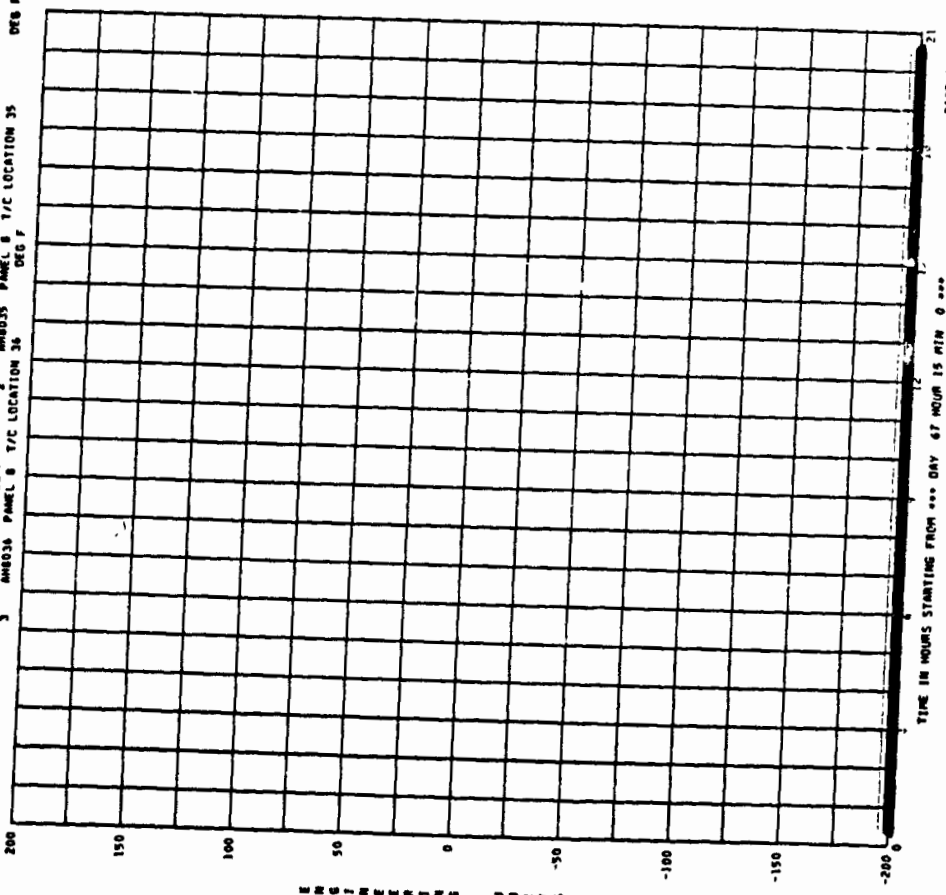






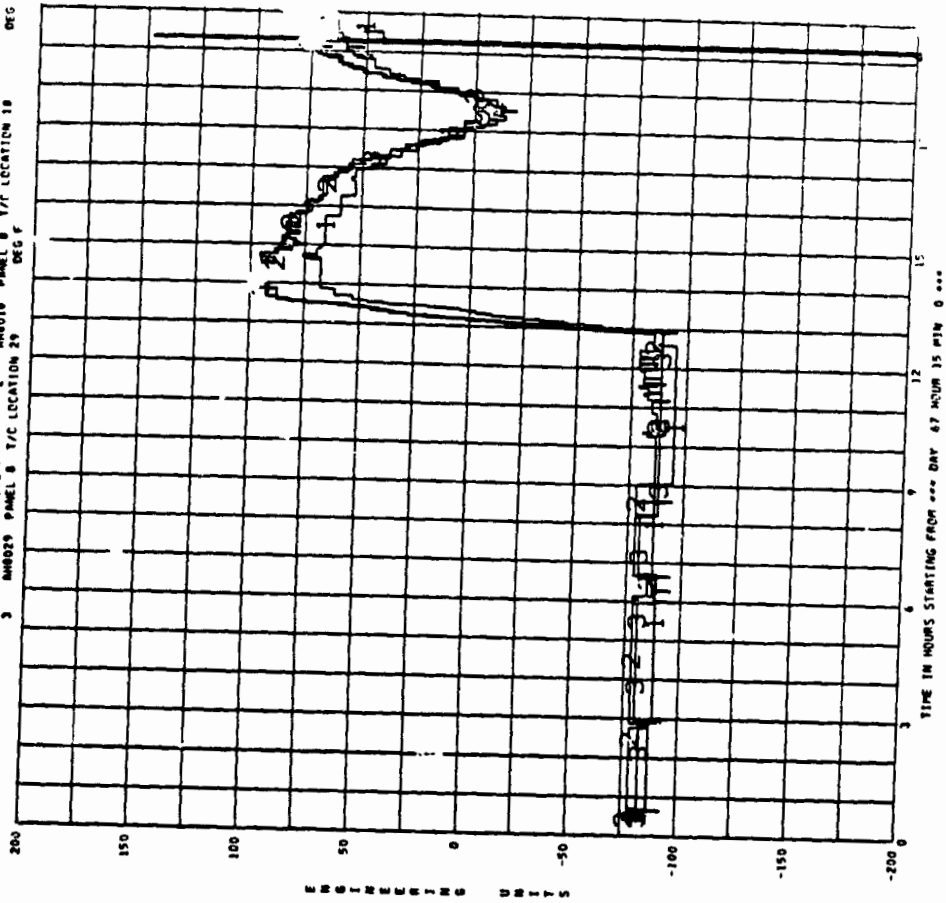
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1 AMB034 PANEL 8 T/C LOCATION 24
 2 AMB035 PANEL 8 T/C LOCATION 35
 3 AMB036 PANEL 8 T/C LOCATION 36



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1 AMB011 PANEL 8 T/C LOCATION 11
 2 AMB010 PANEL 8 T/C LOCATION 18
 3 AMB029 PANEL 8 T/C LOCATION 29



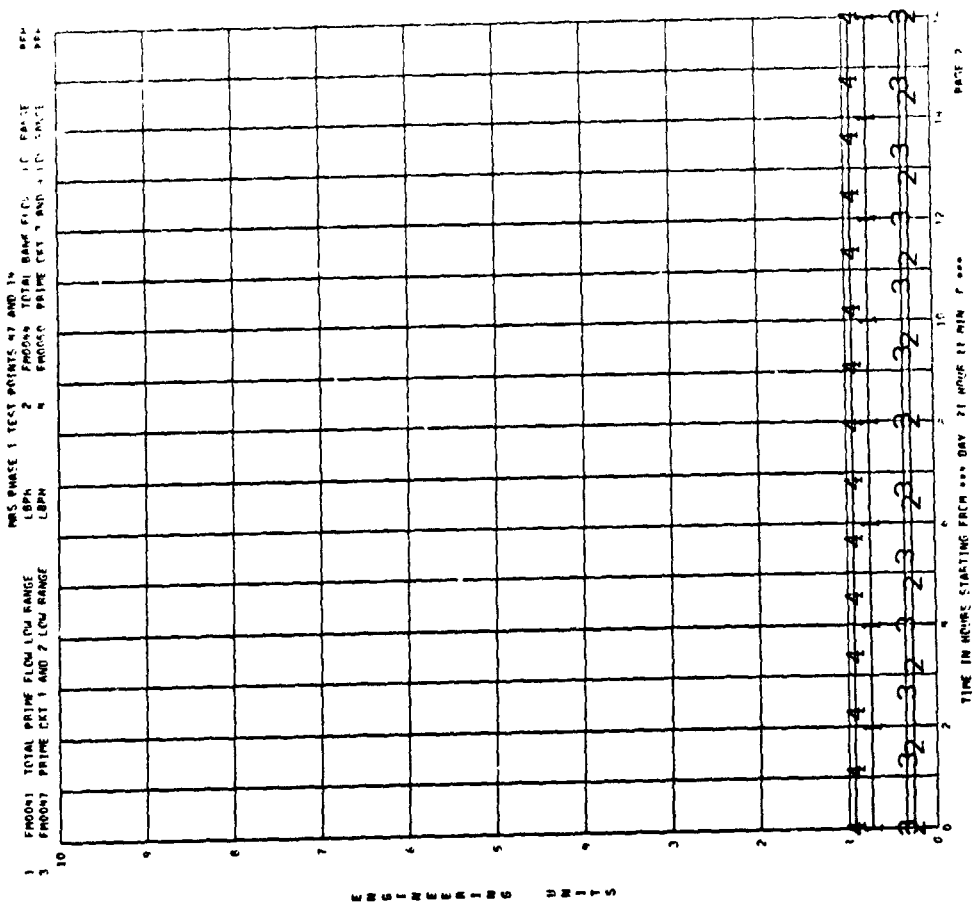
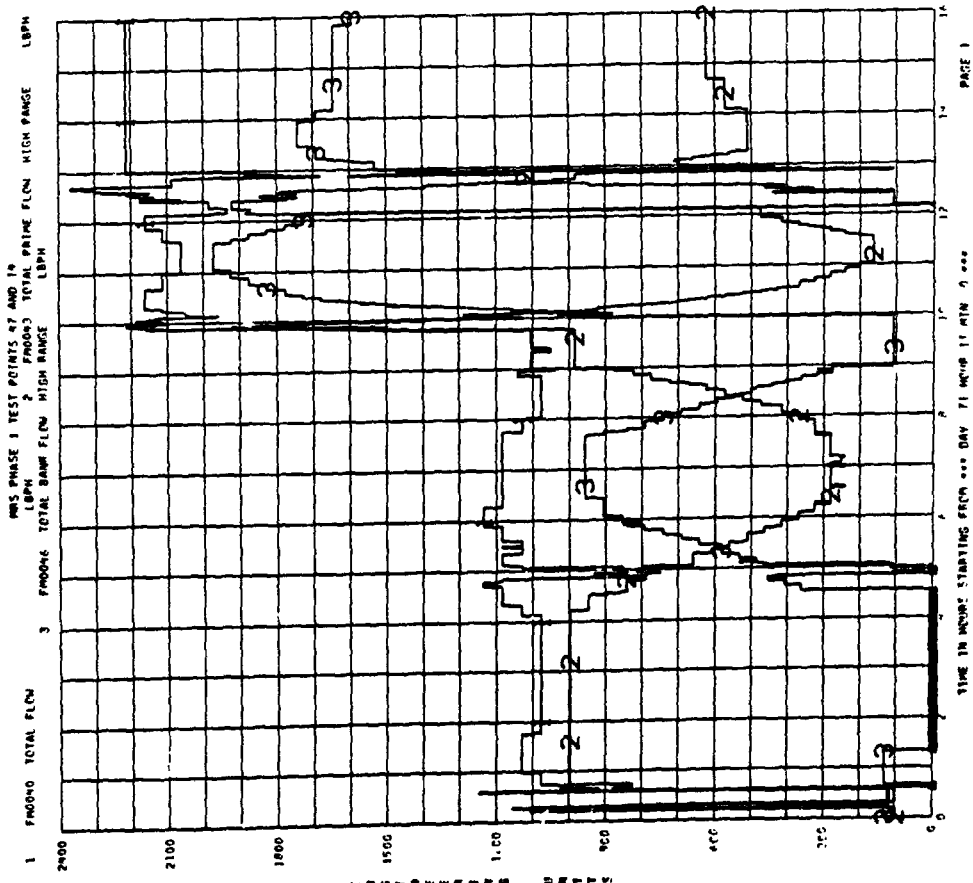
TEMPERATURE IN DEGREES F

TEST GROUP D

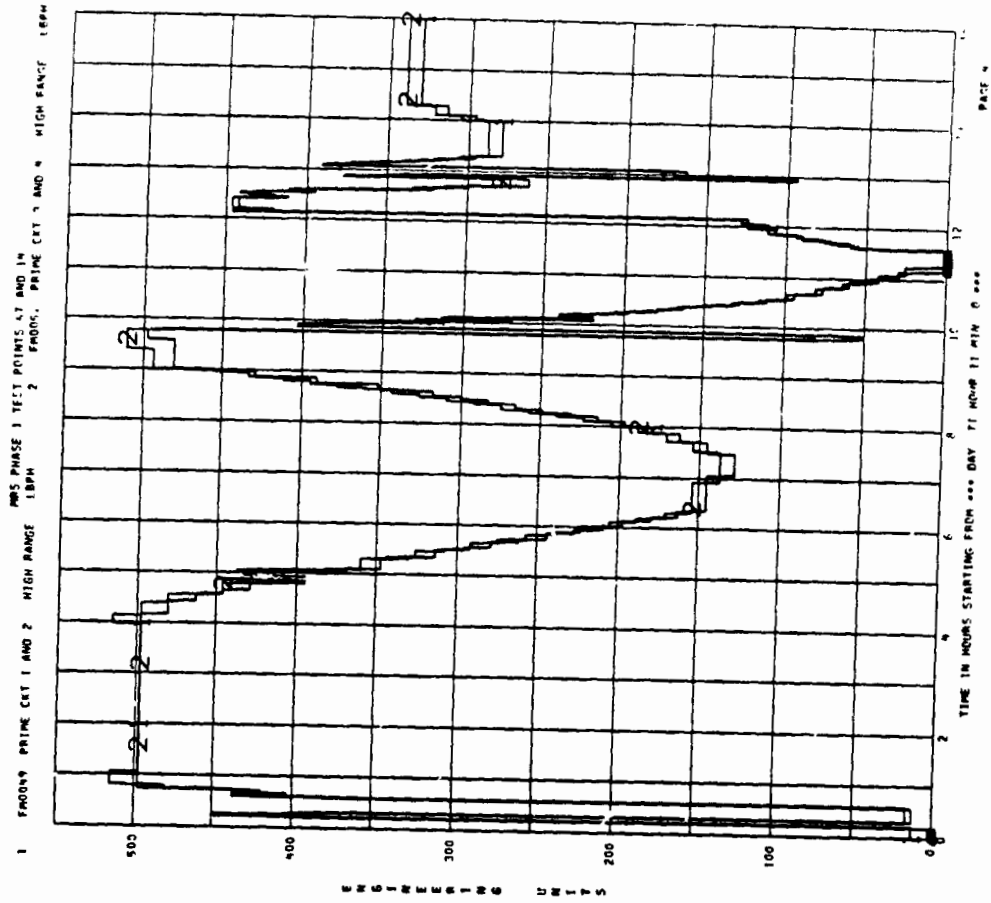
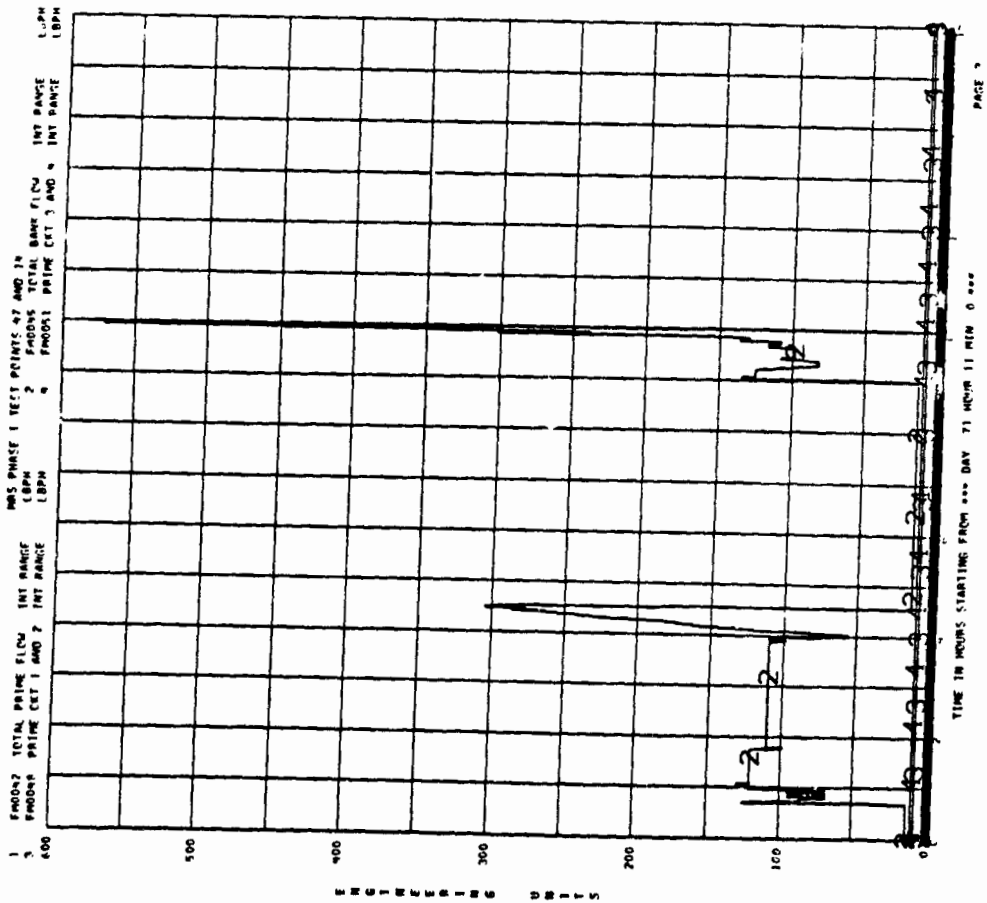
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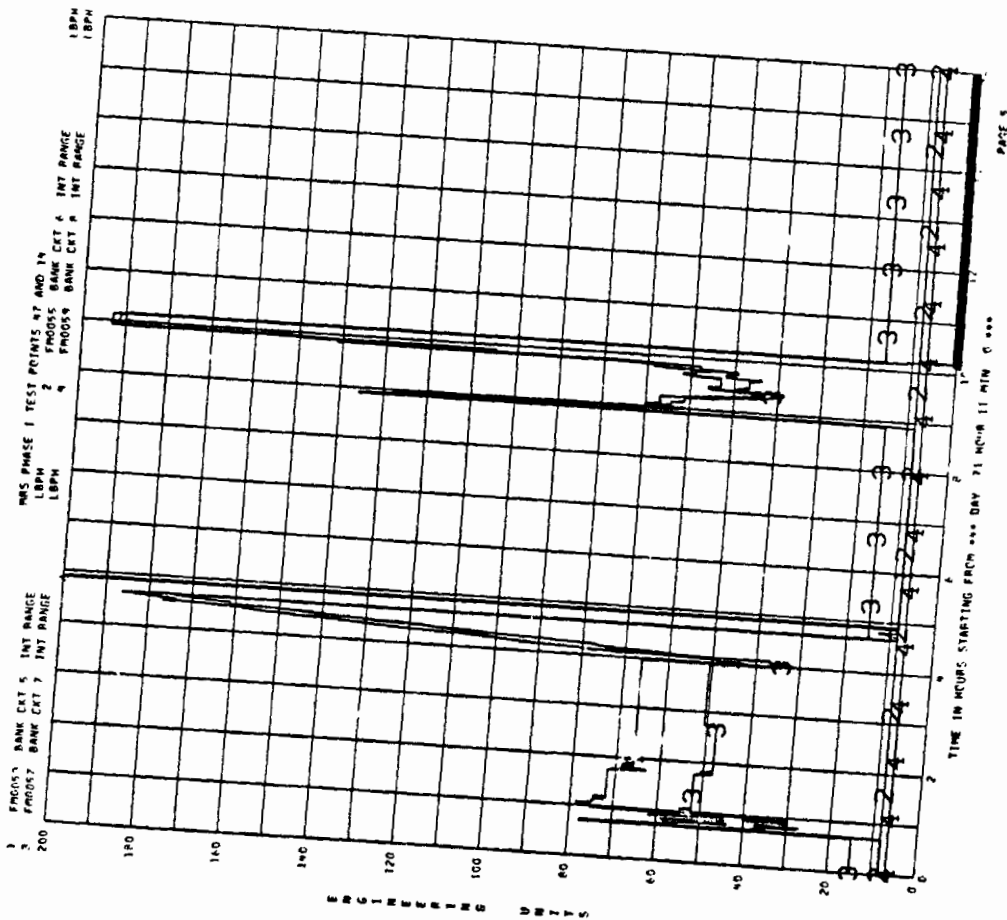
INCLUDES TEST POINTS

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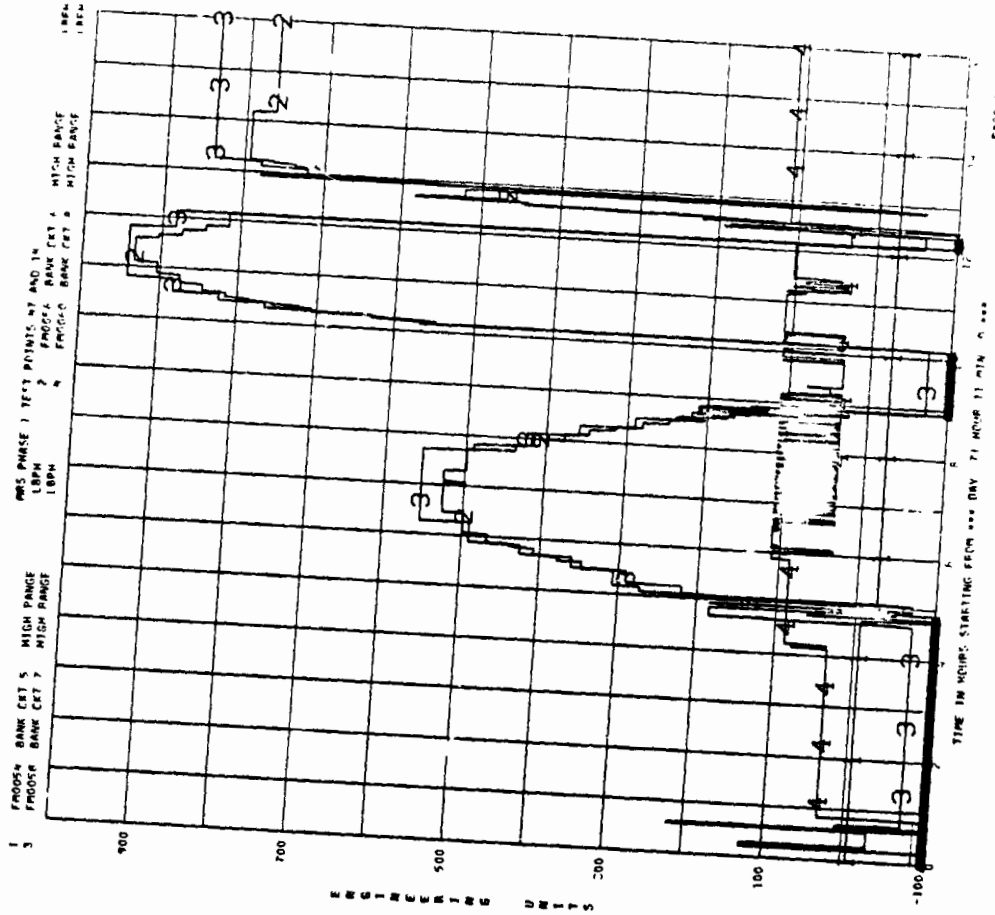


ENGINEERING UNITS

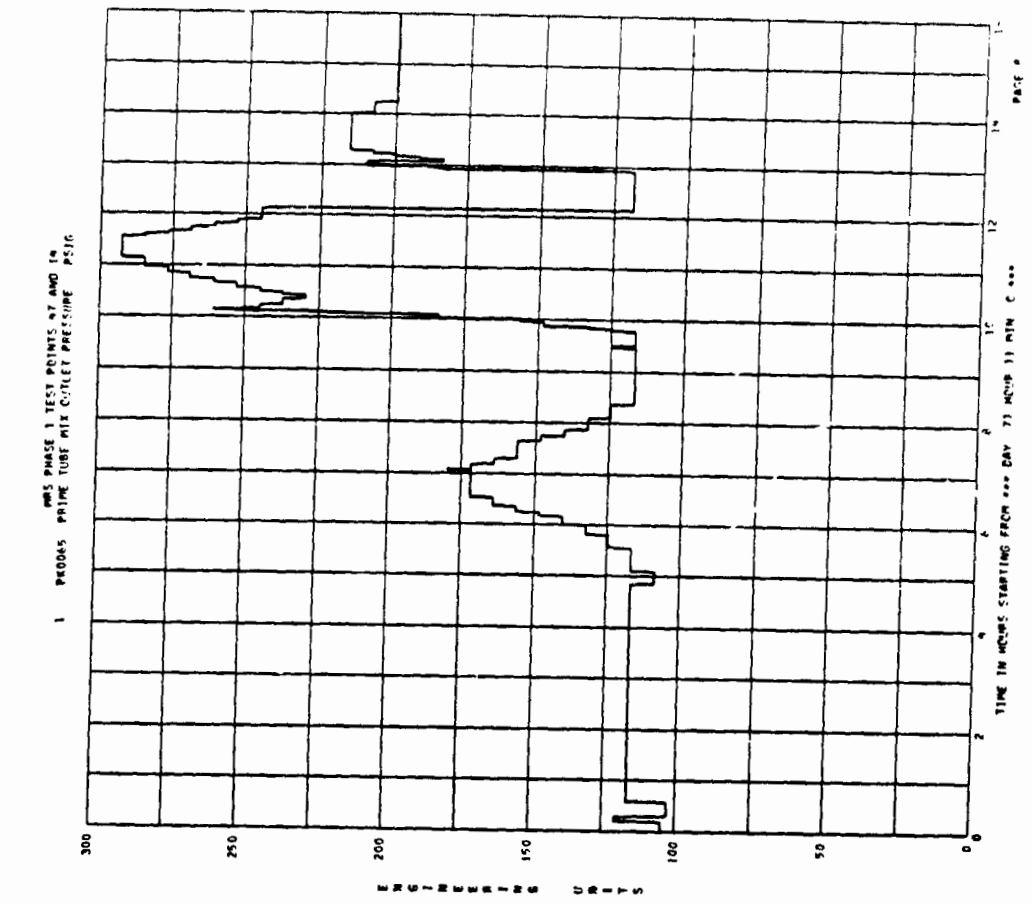
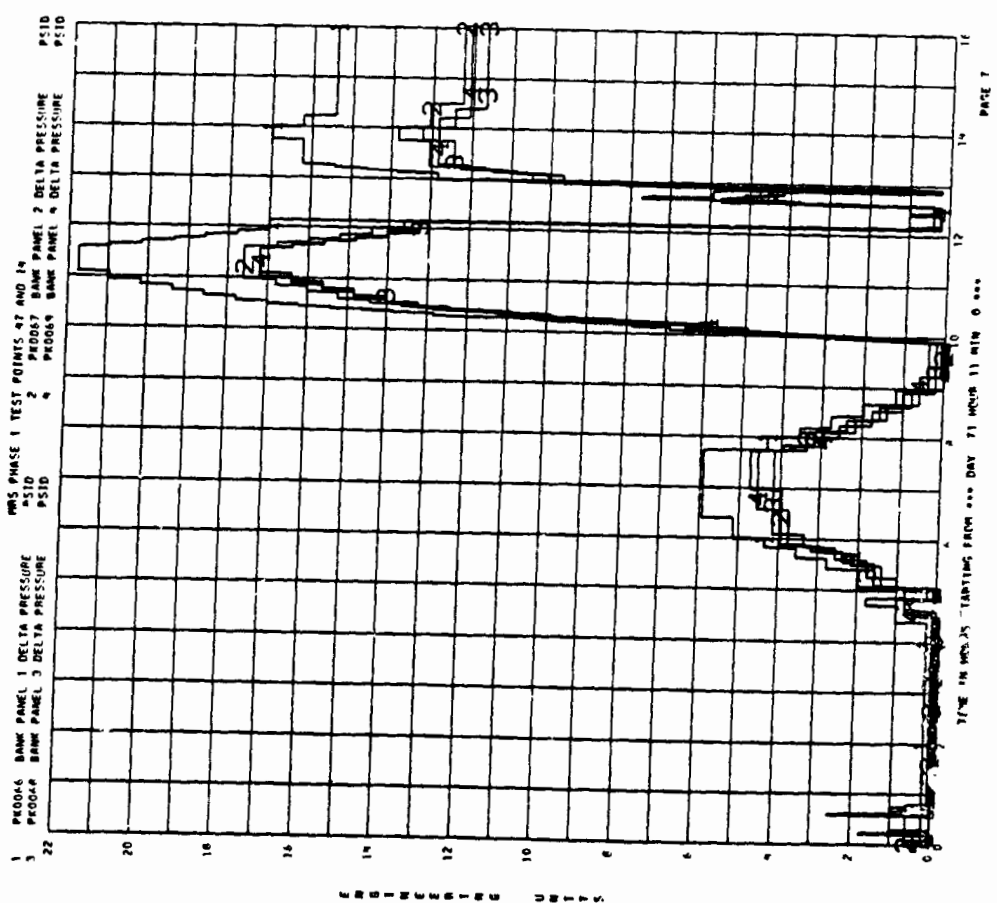


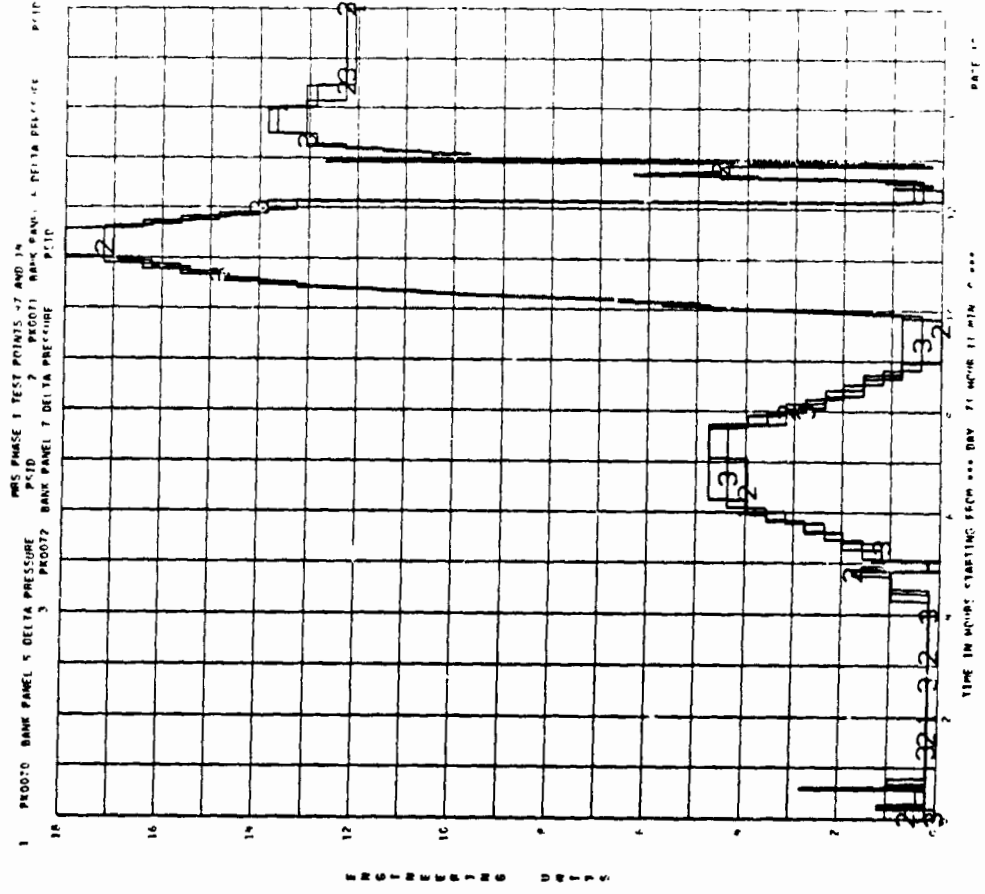
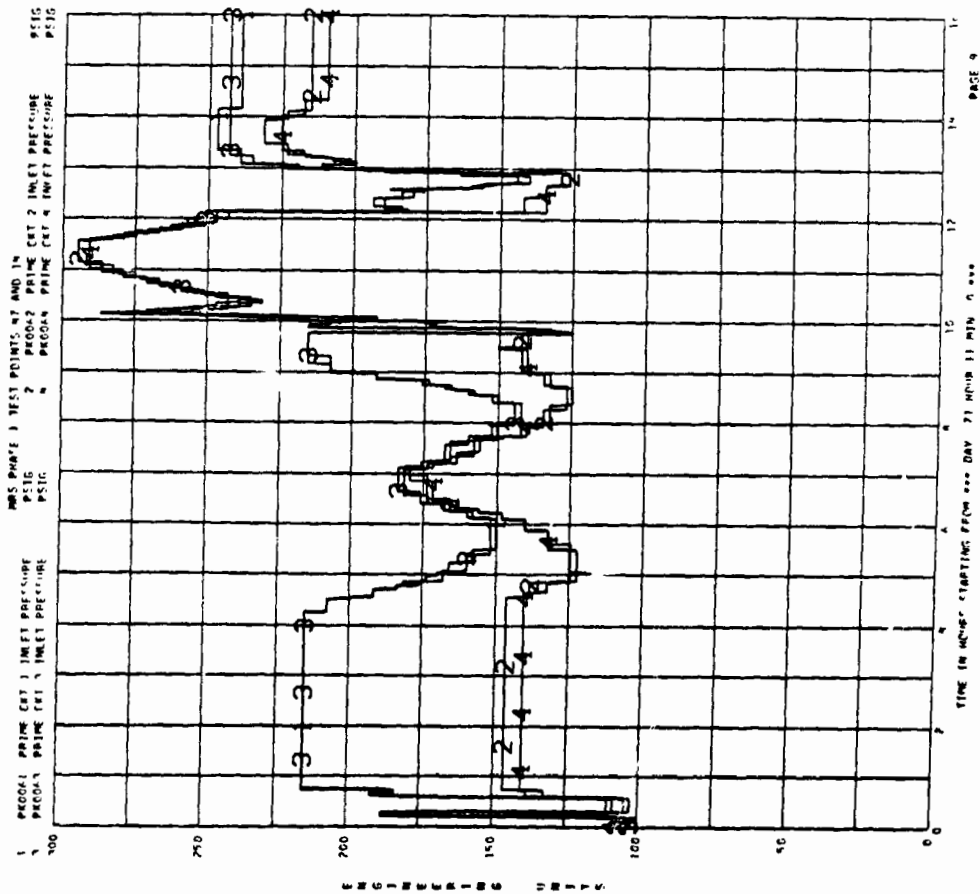


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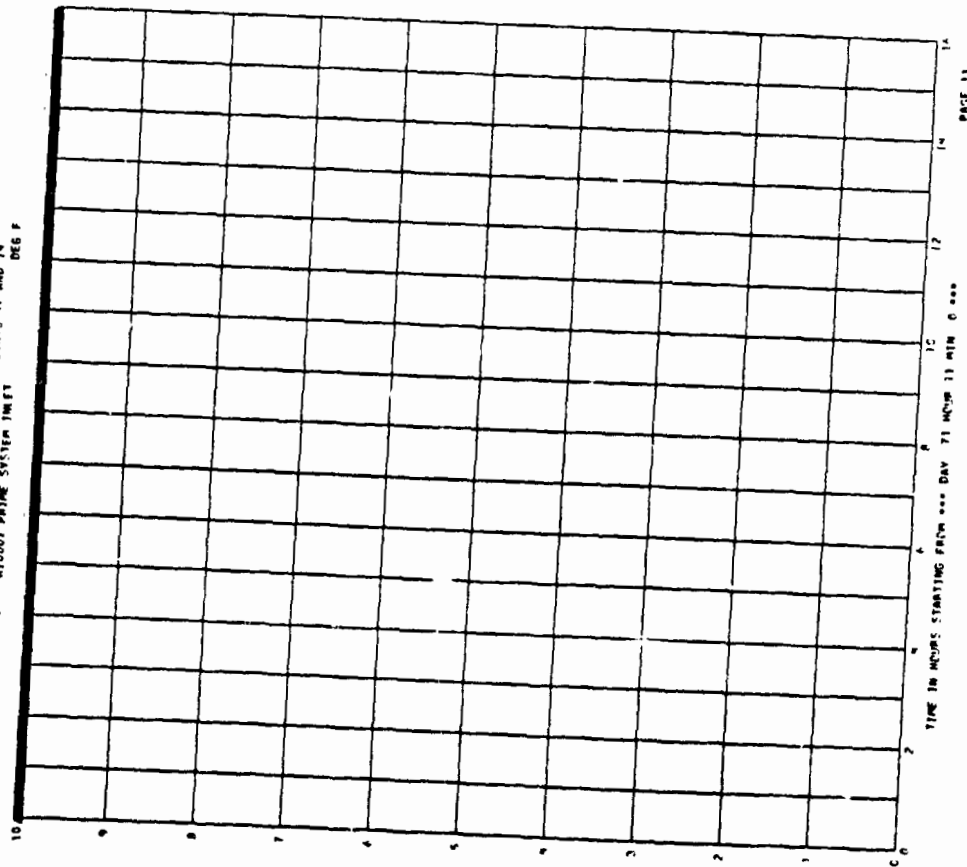


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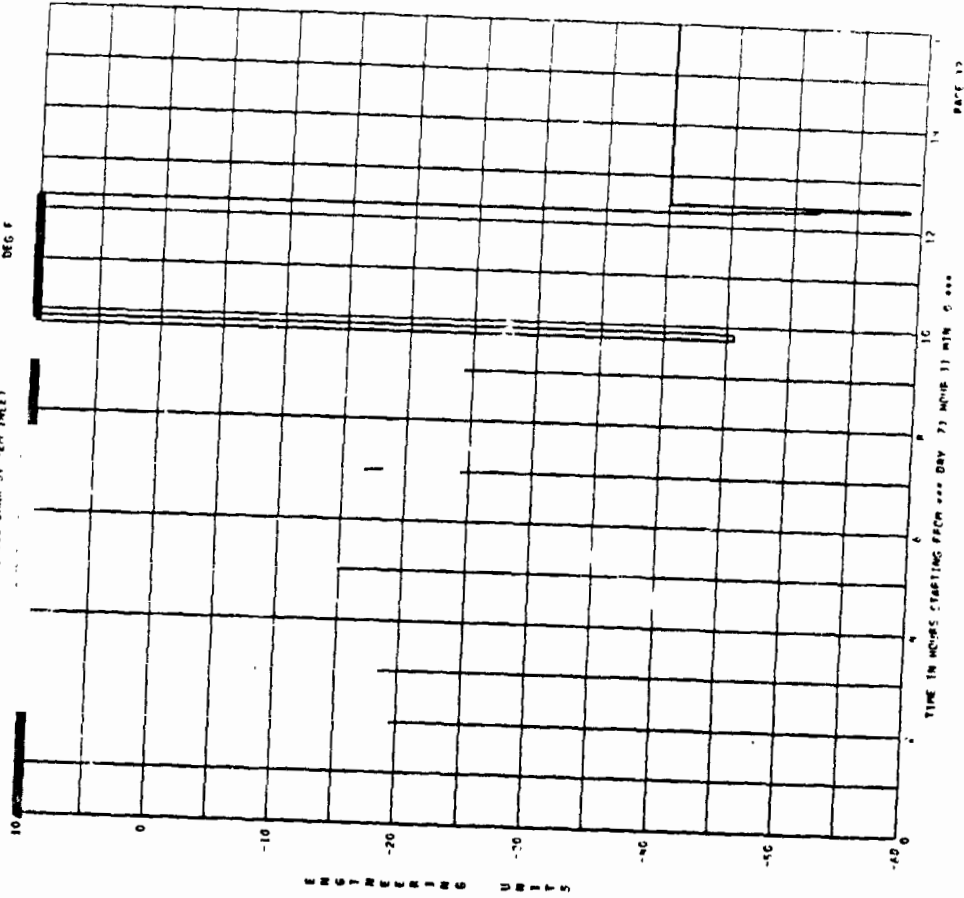




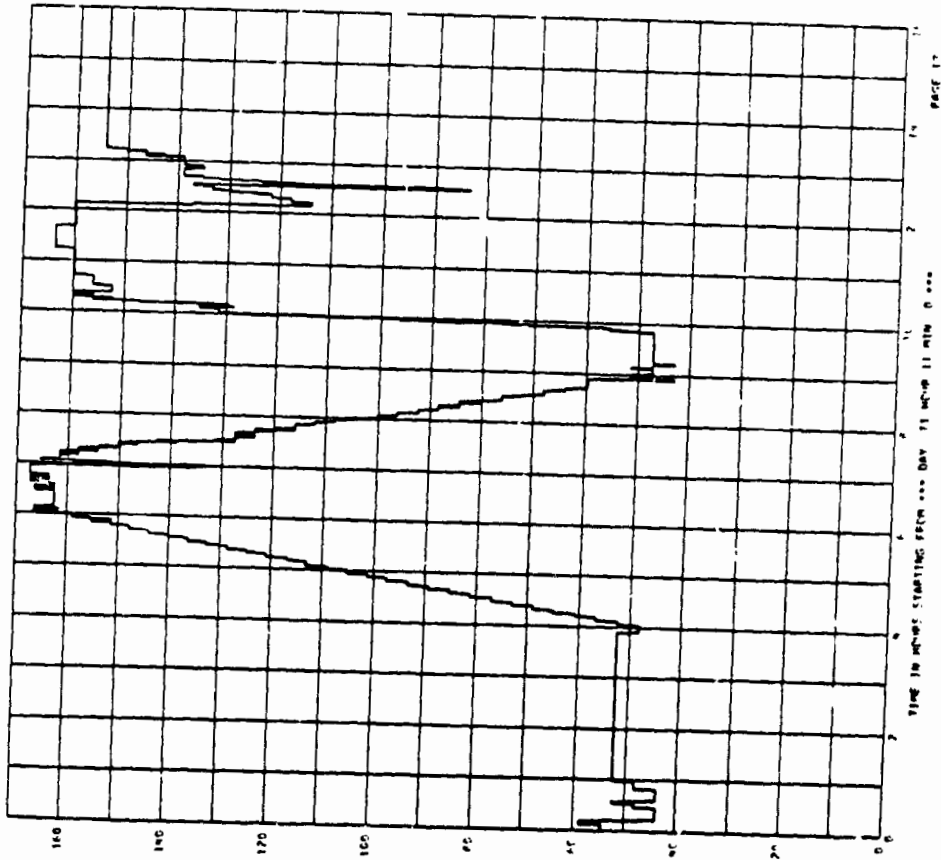
1 410003 PRIME SYSTEM INLET
WMS PHASE I TEST POINTS #7 AND 14
DEG F



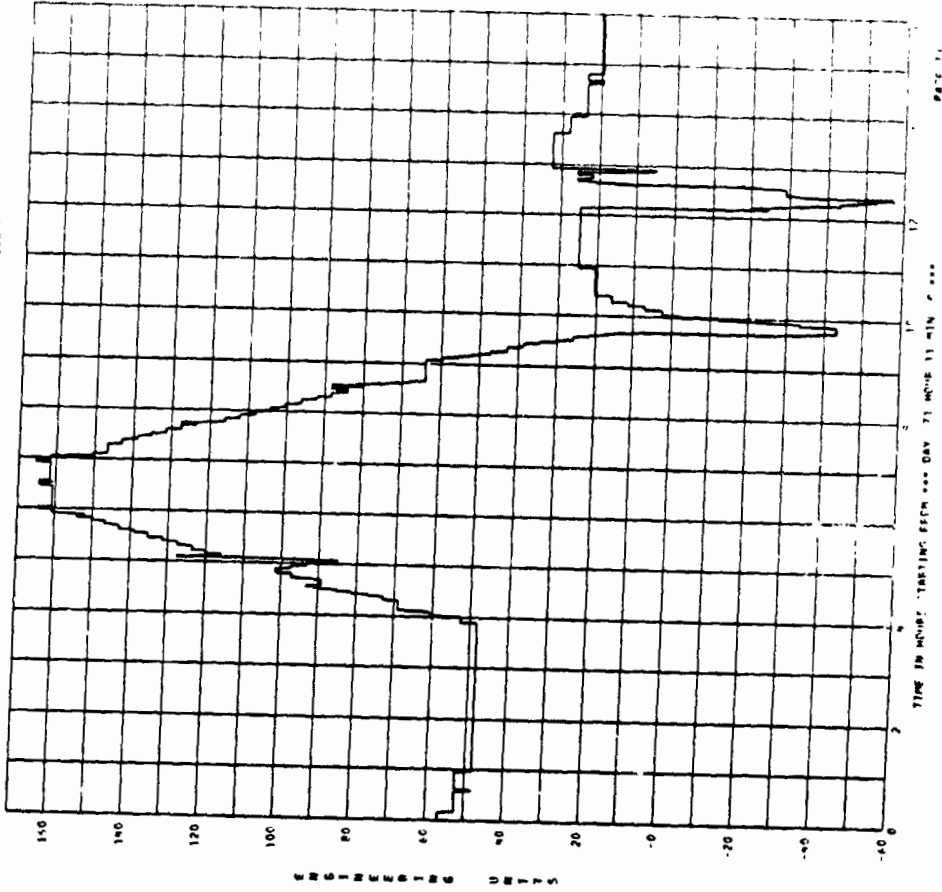
1 410002 BANK SYSTEM INLET
WMS PHASE I TEST POINTS #7 AND 14
DEG F



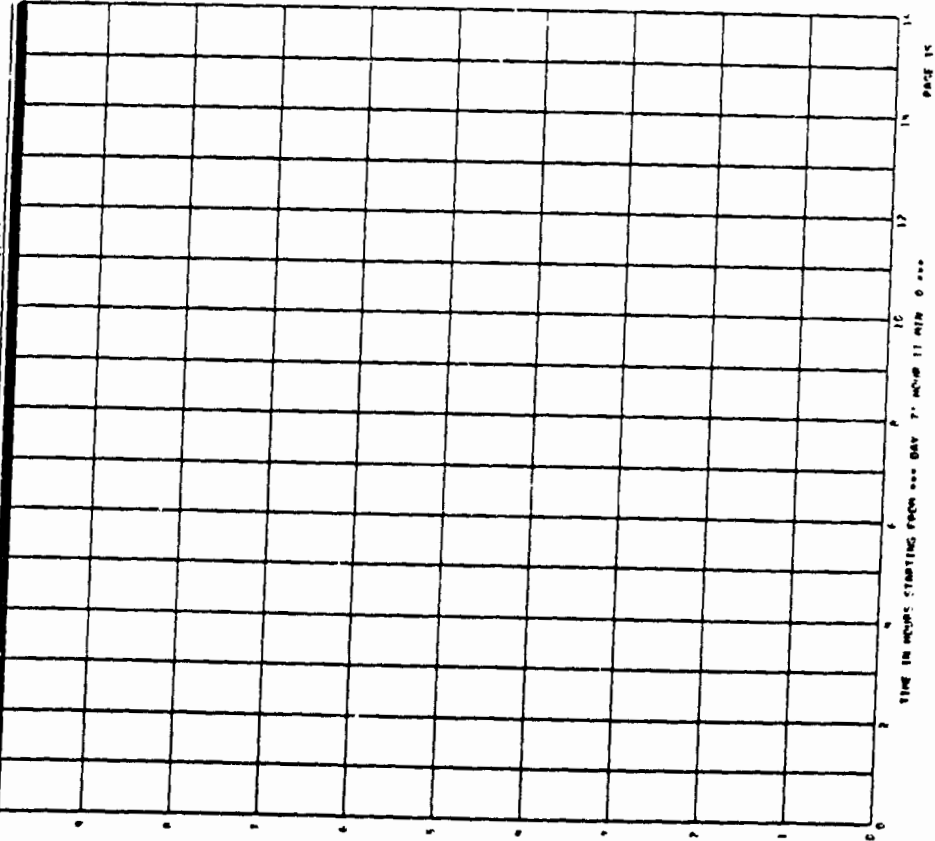
1 A10001 PRIME SYSTEM INLET DEG F



1 A10002 BANK SYSTEM INLET DEG F

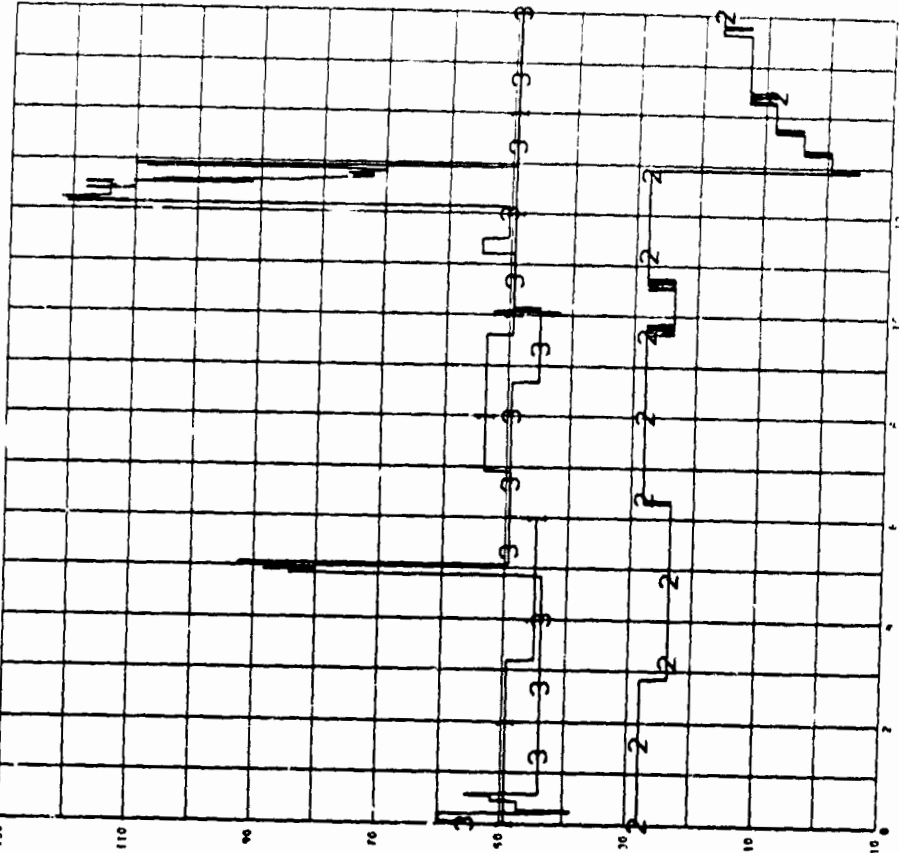


1 A10019 PRIME TIMES OUTLET MIX IN CH DEG F
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 3 A10019 PRIME TIMES OUTLET MIX IN CH DEG F



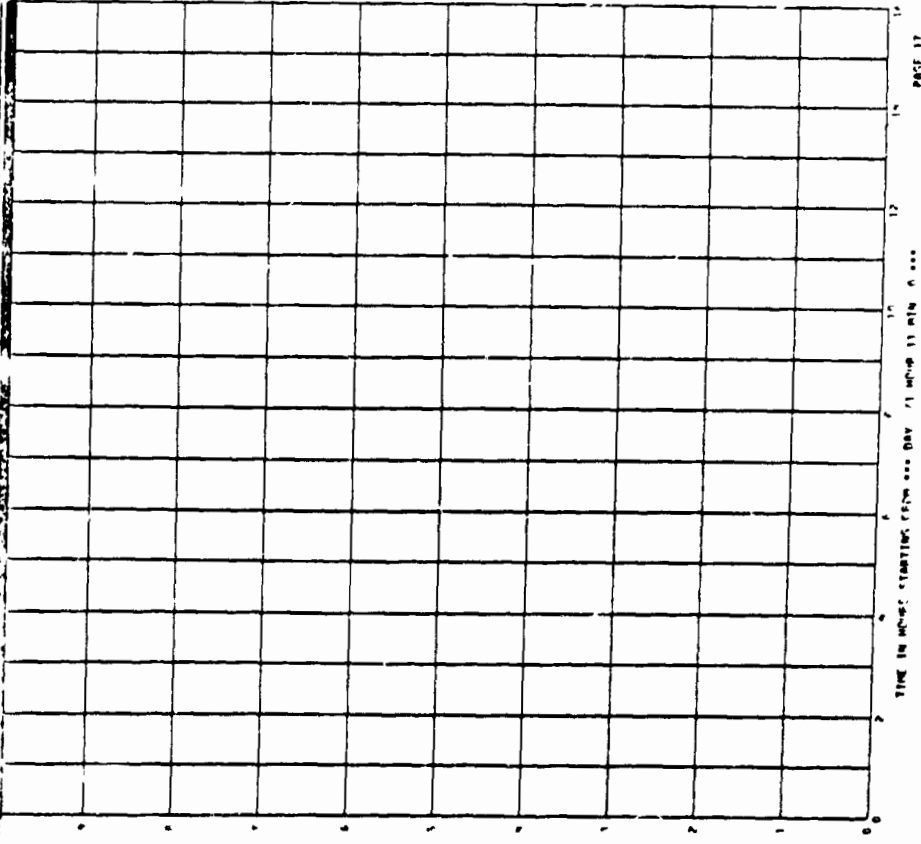
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1 A10019 PRIME TIMES OUTLET MIX IN CH DEG F
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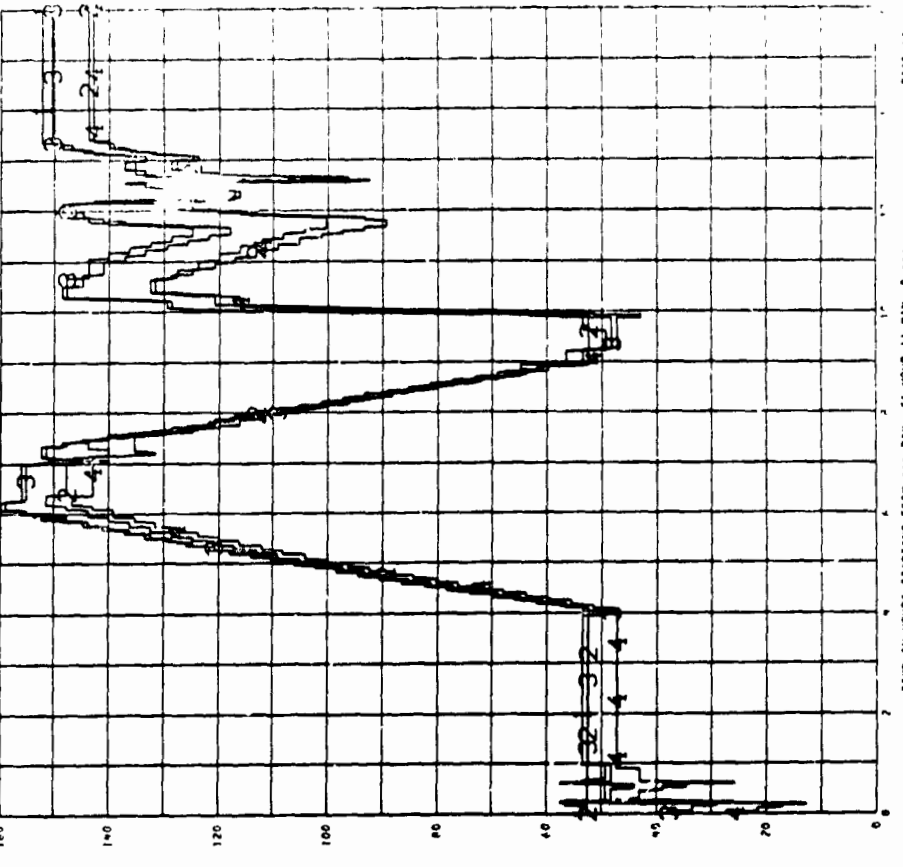


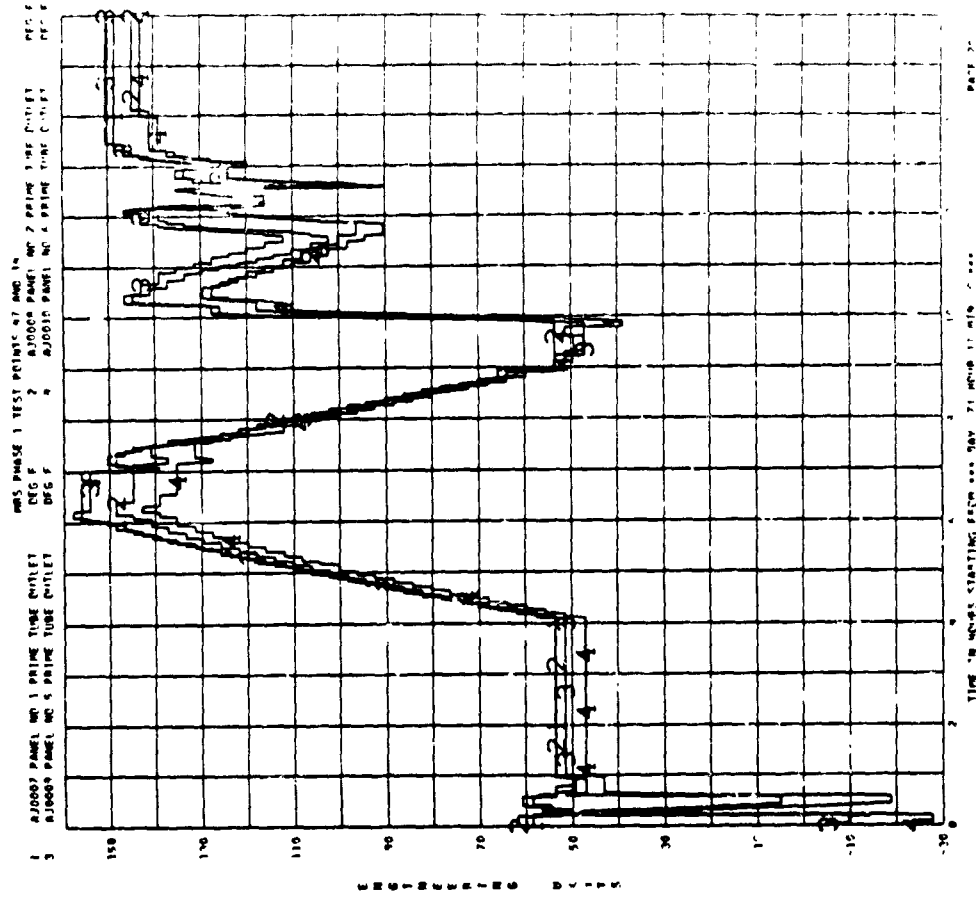
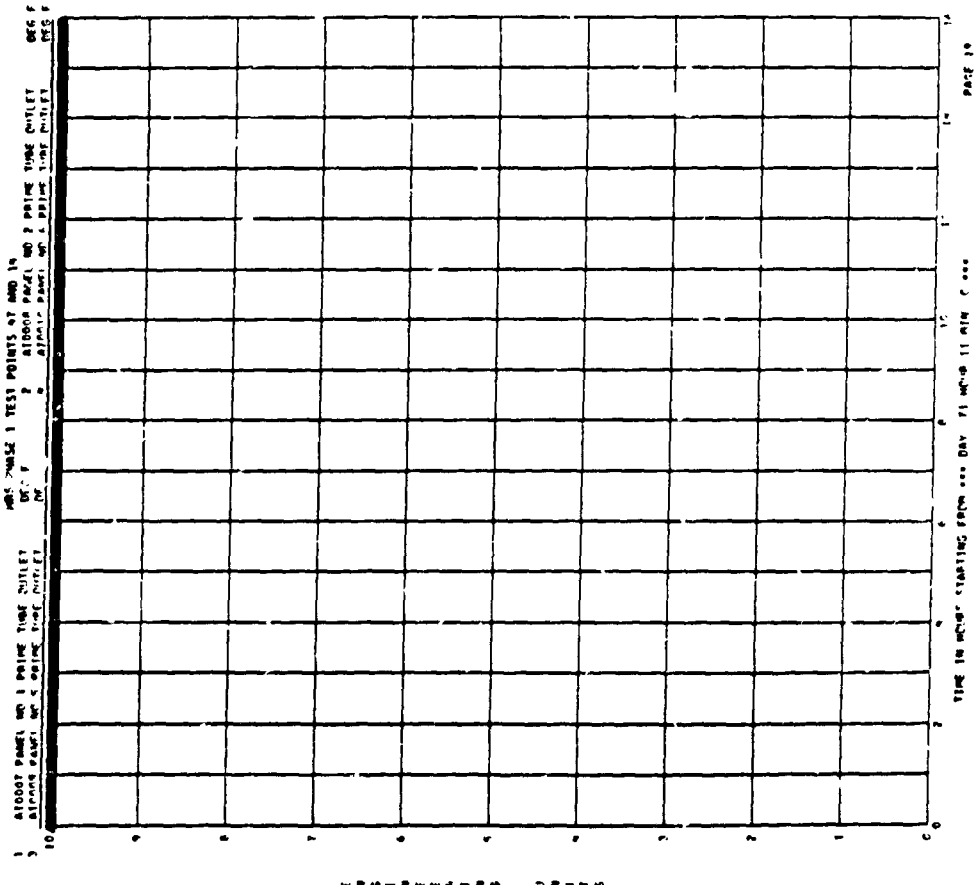
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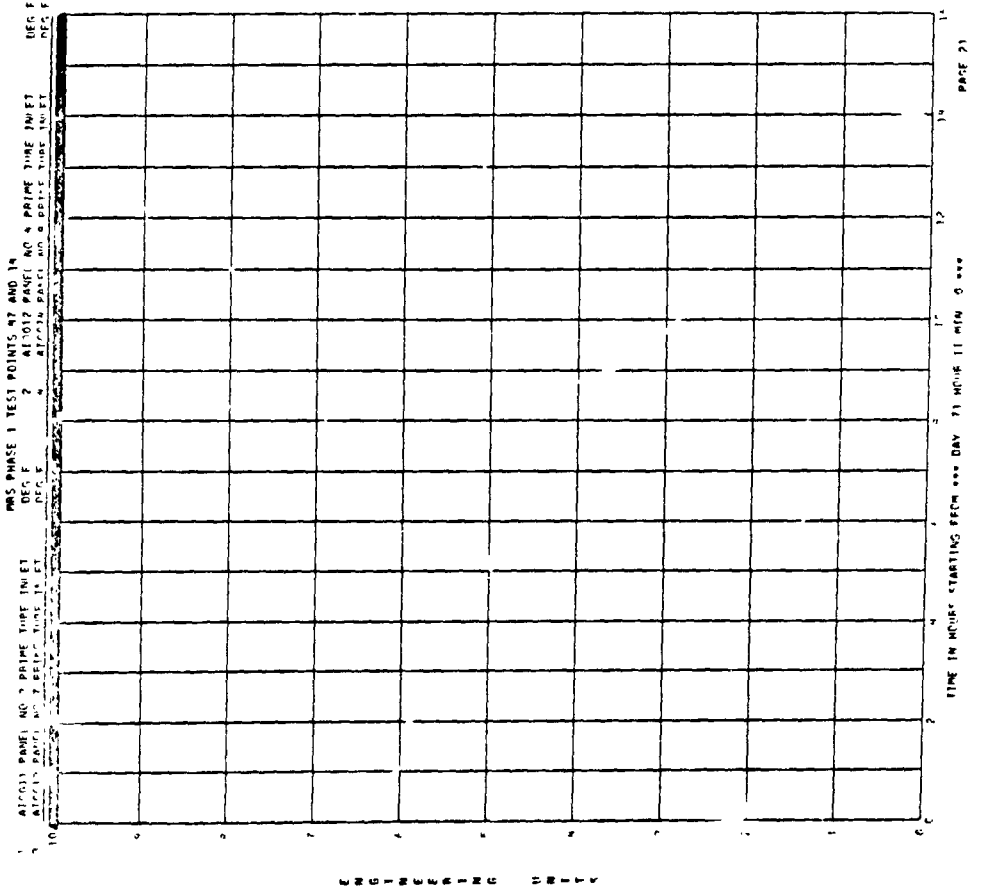
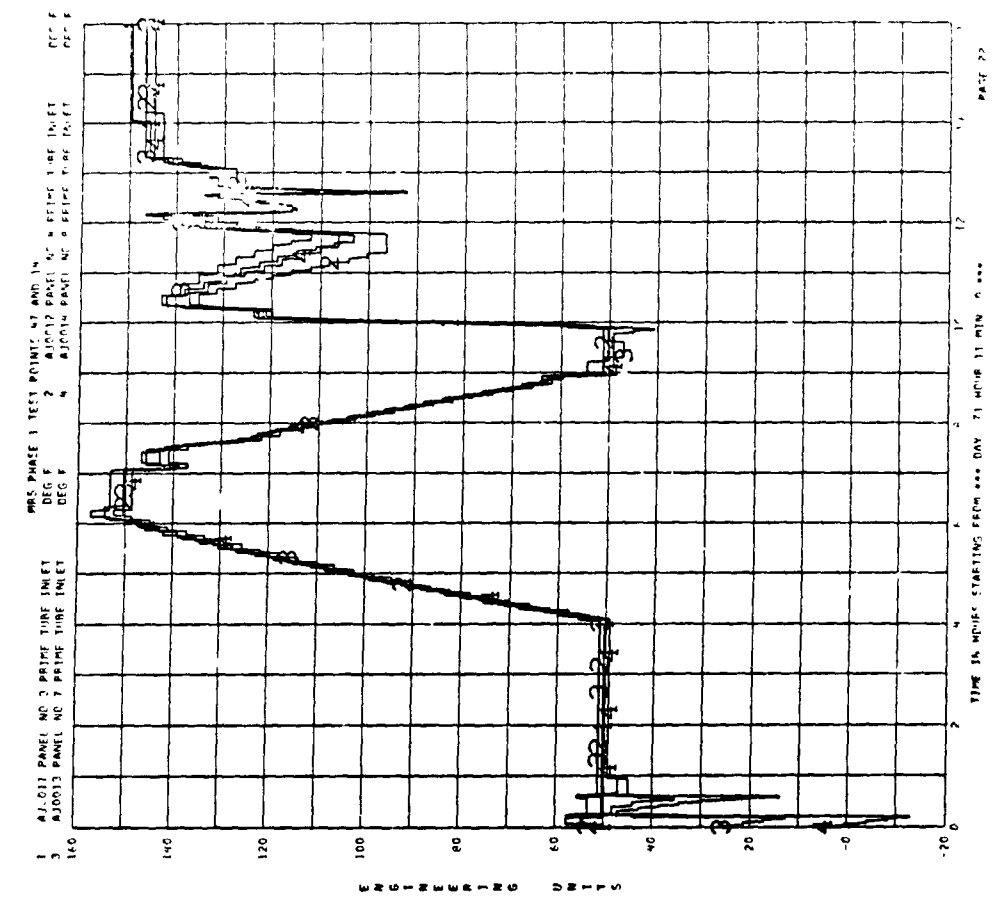
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 2. A10003 PANEL NO. 2 PRIME TIME INLET
 3. A10003 PANEL NO. 3 PRIME TIME INLET
 4. A10003 PANEL NO. 4 PRIME TIME INLET
 5. A10003 PANEL NO. 5 PRIME TIME INLET

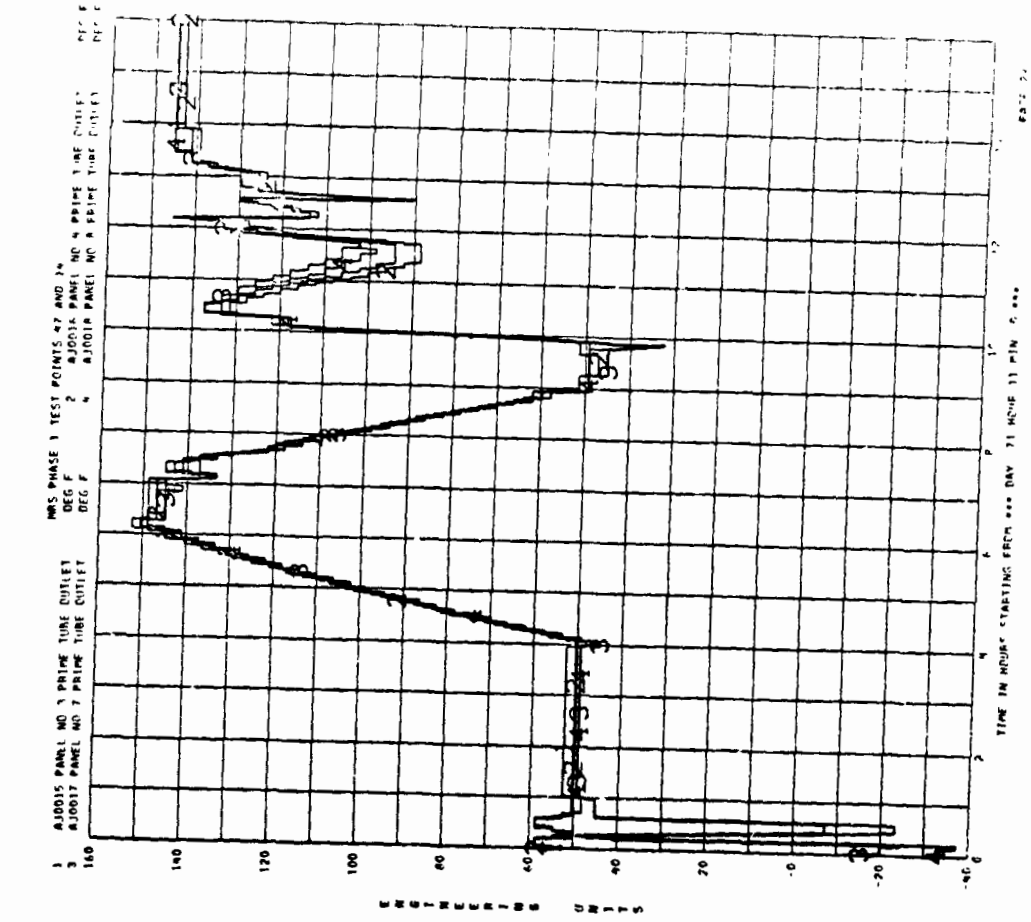
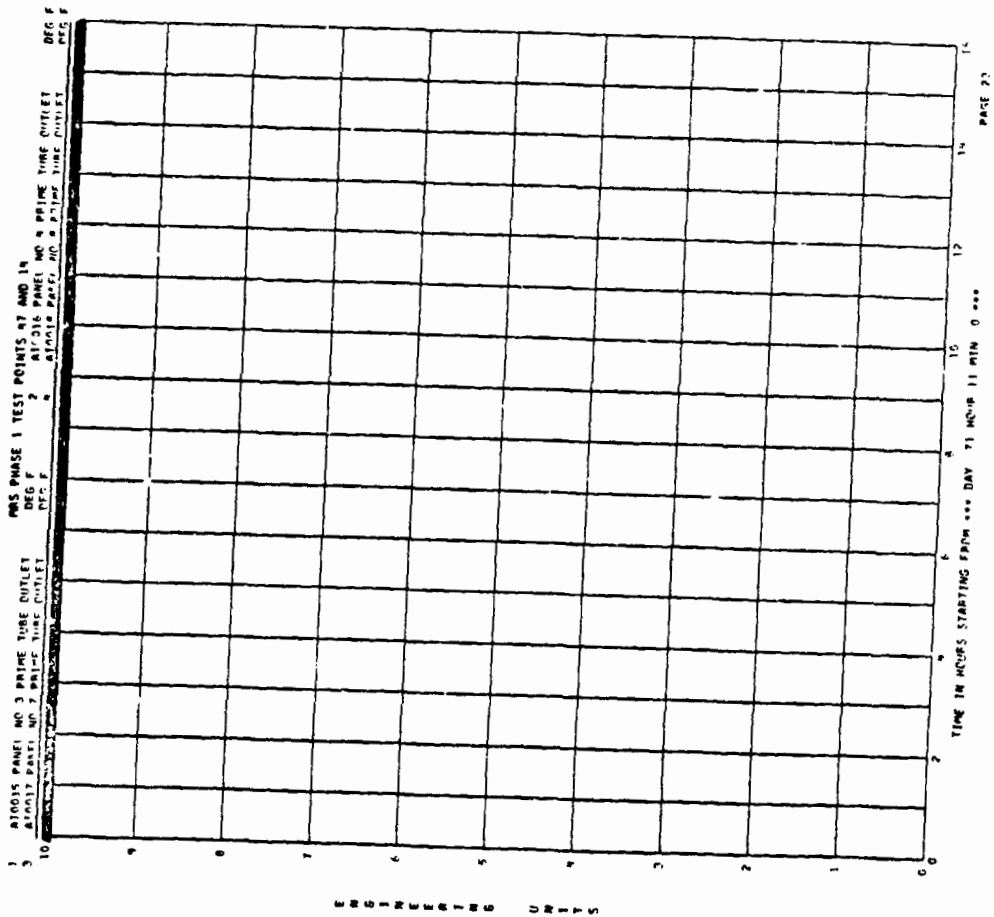


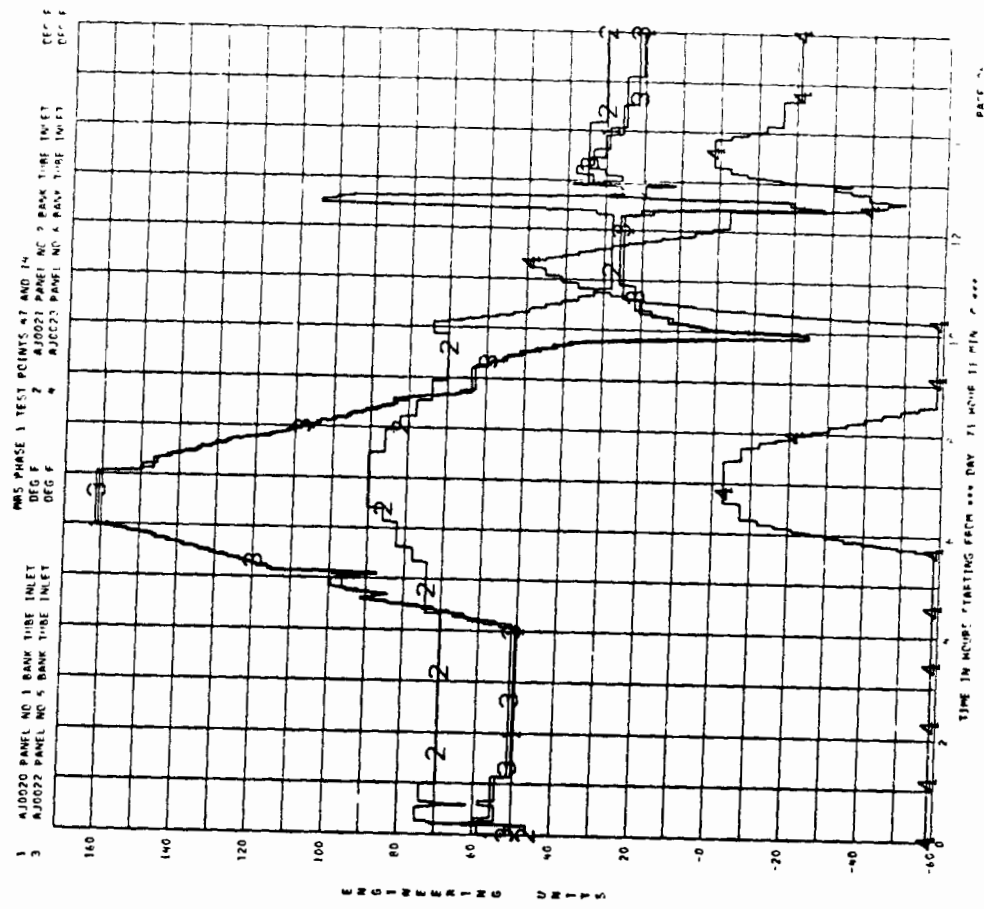
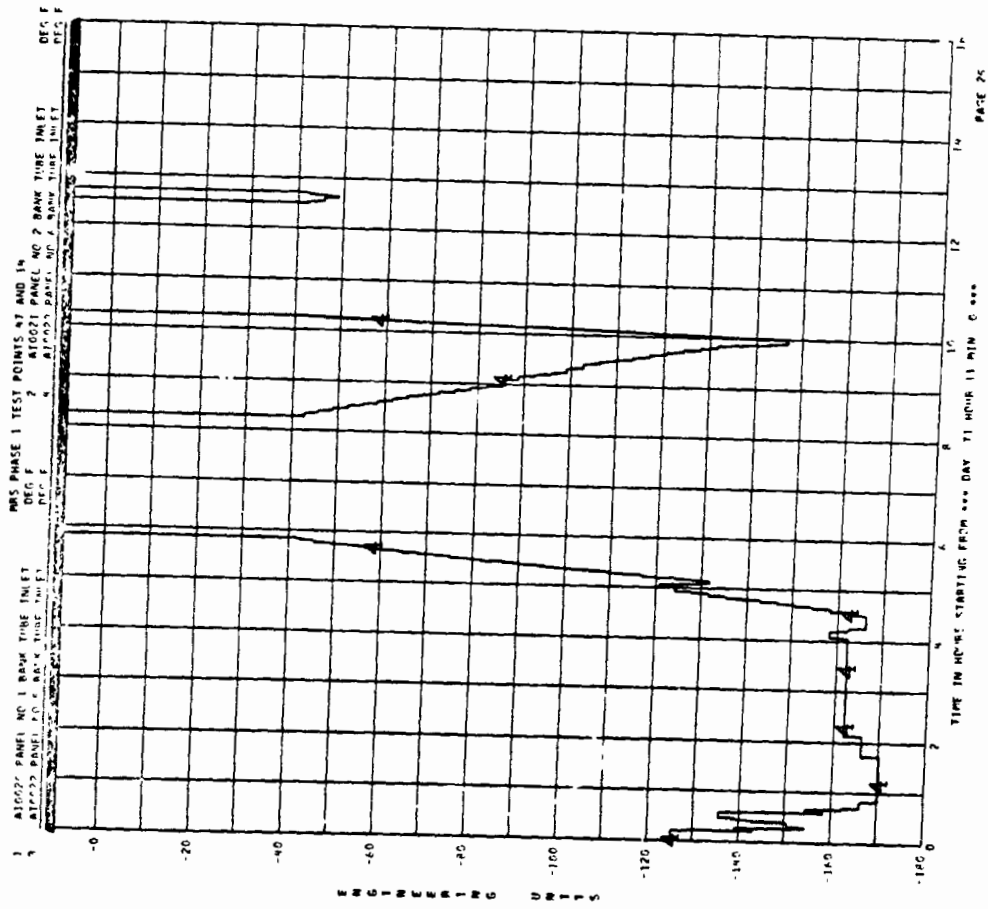
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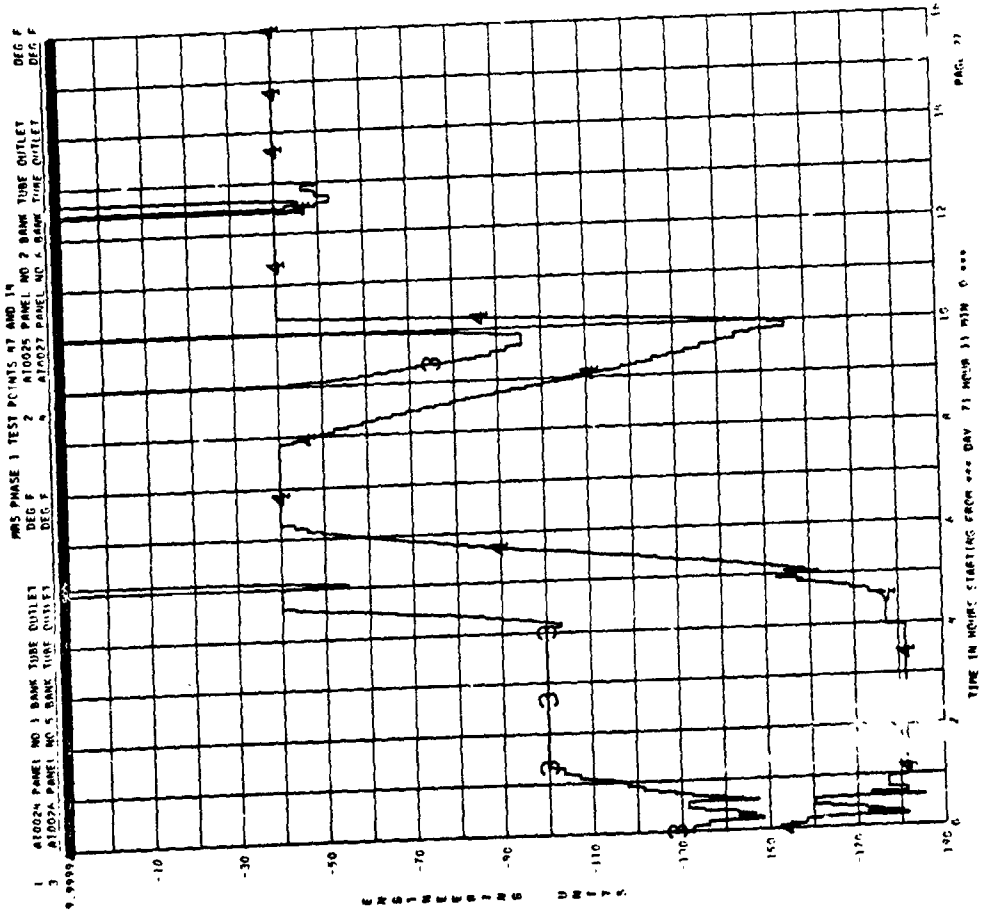
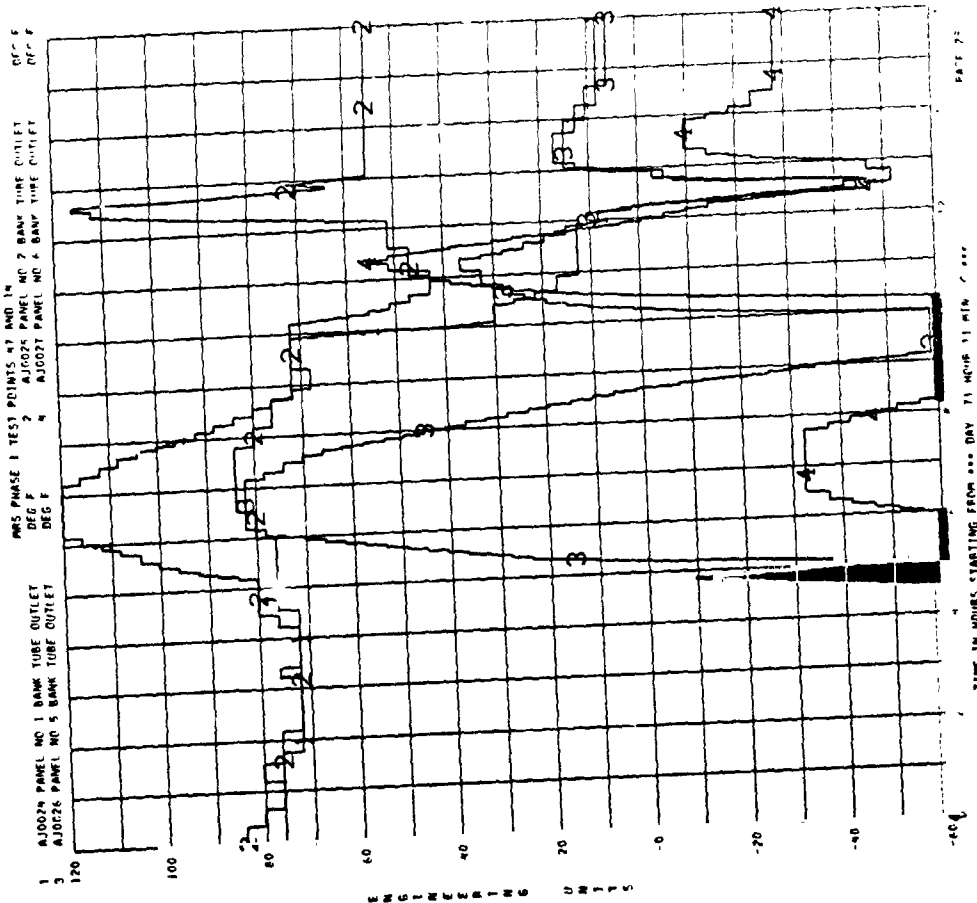


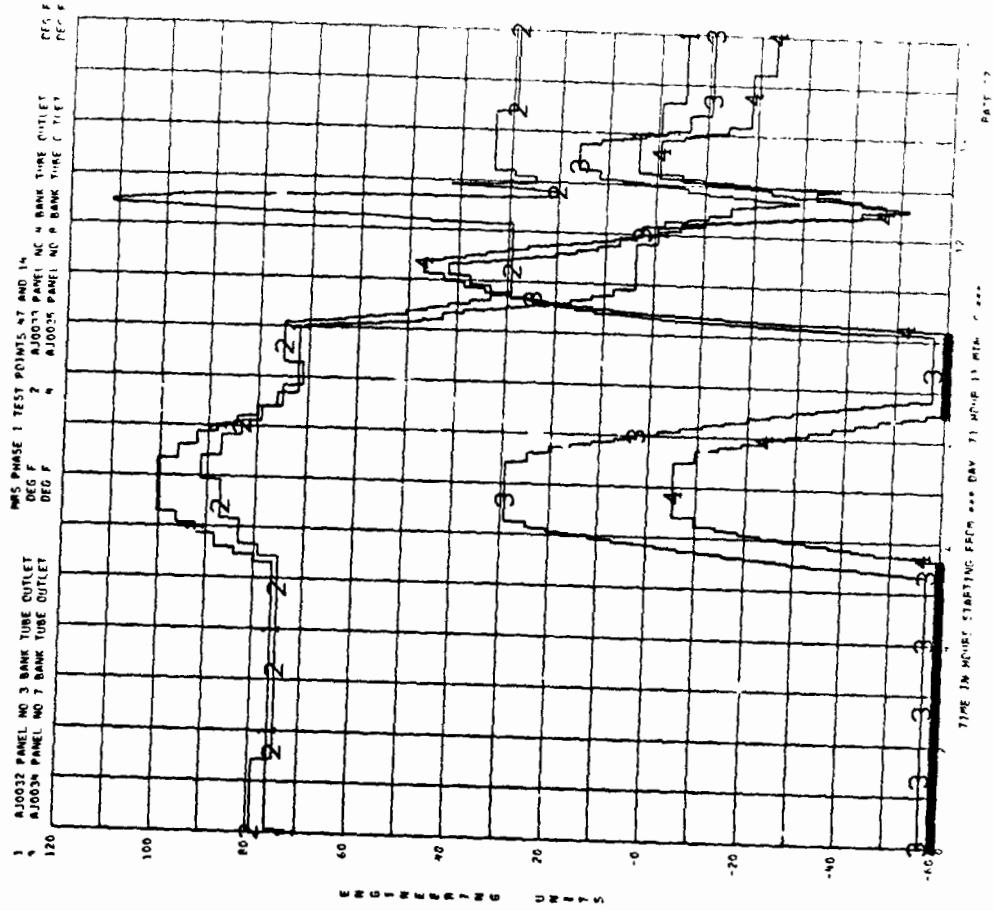
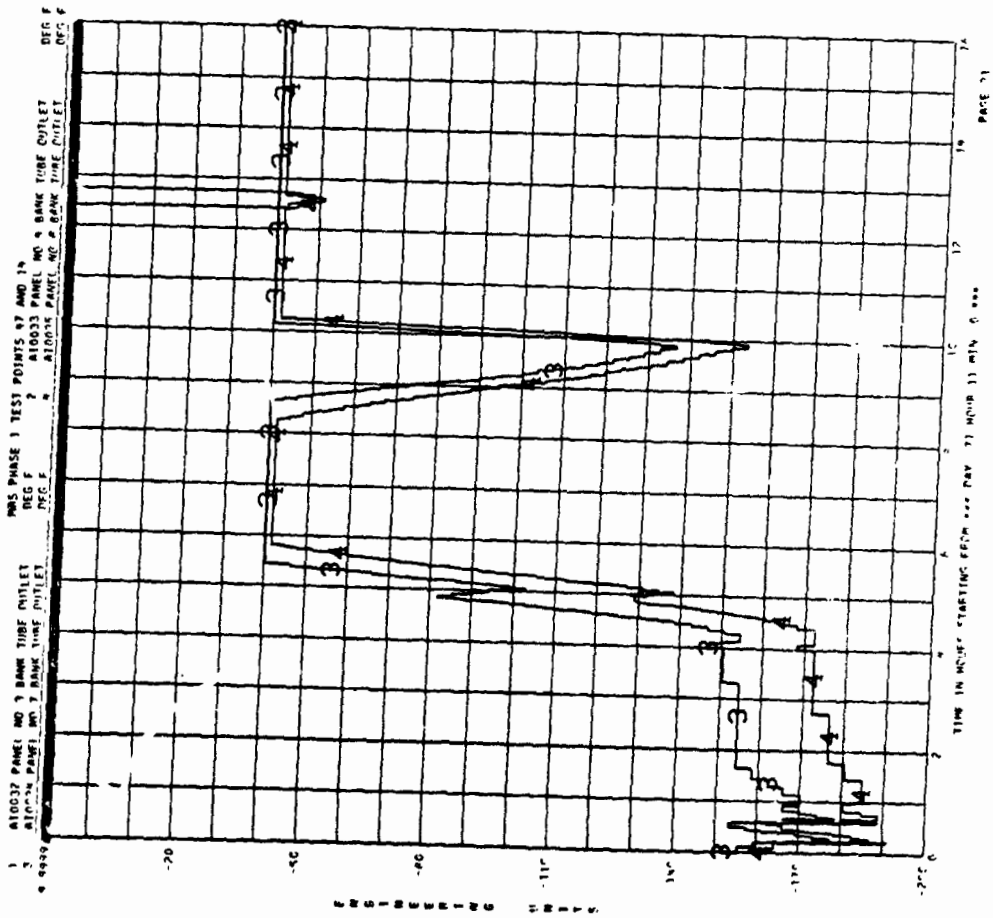


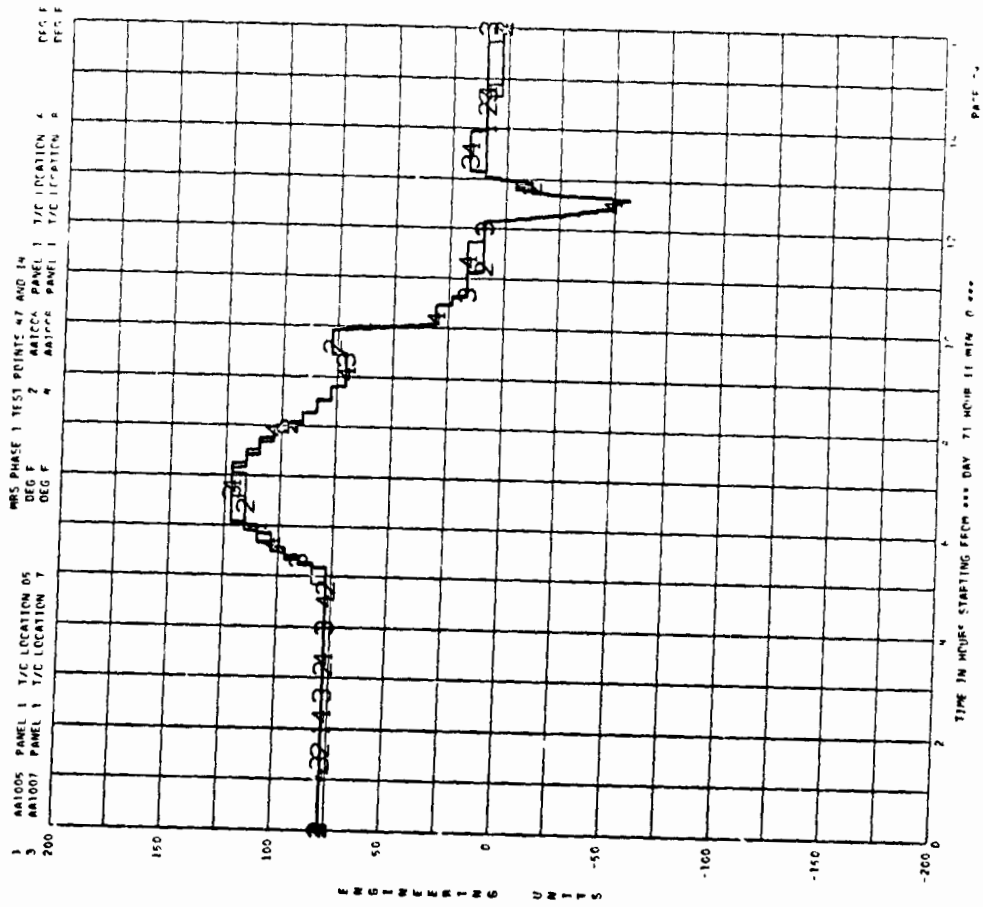
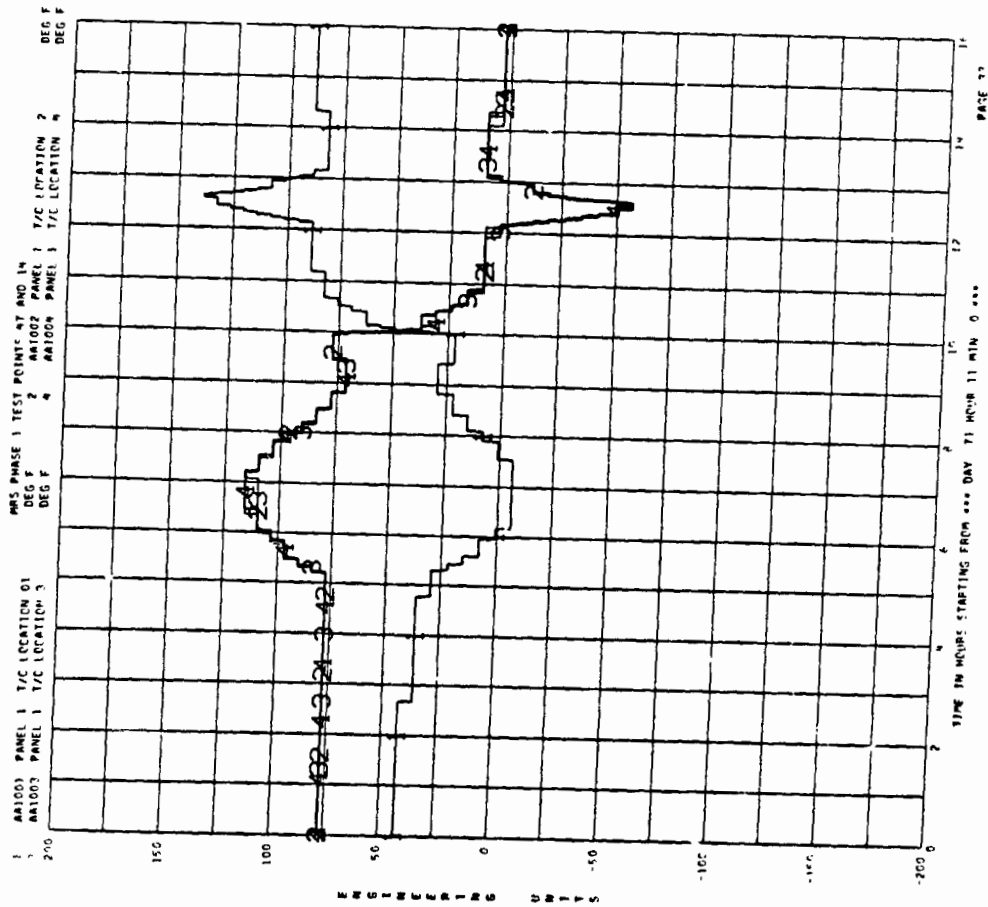


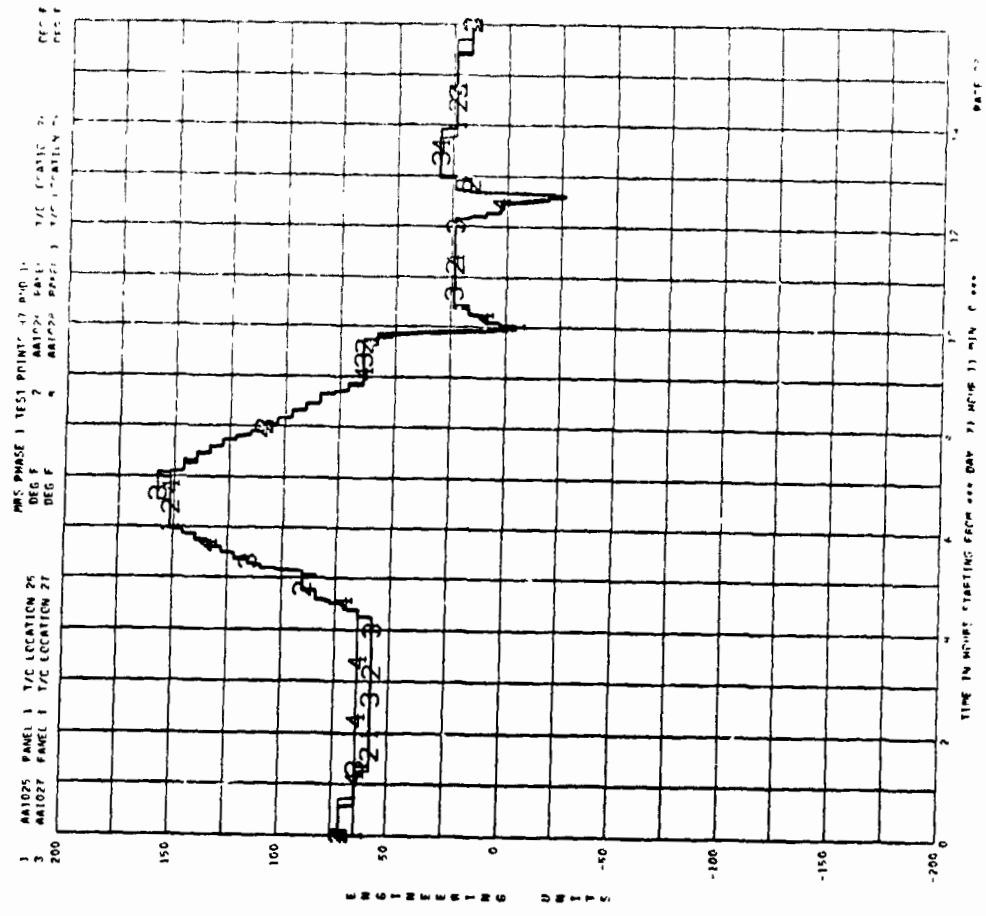
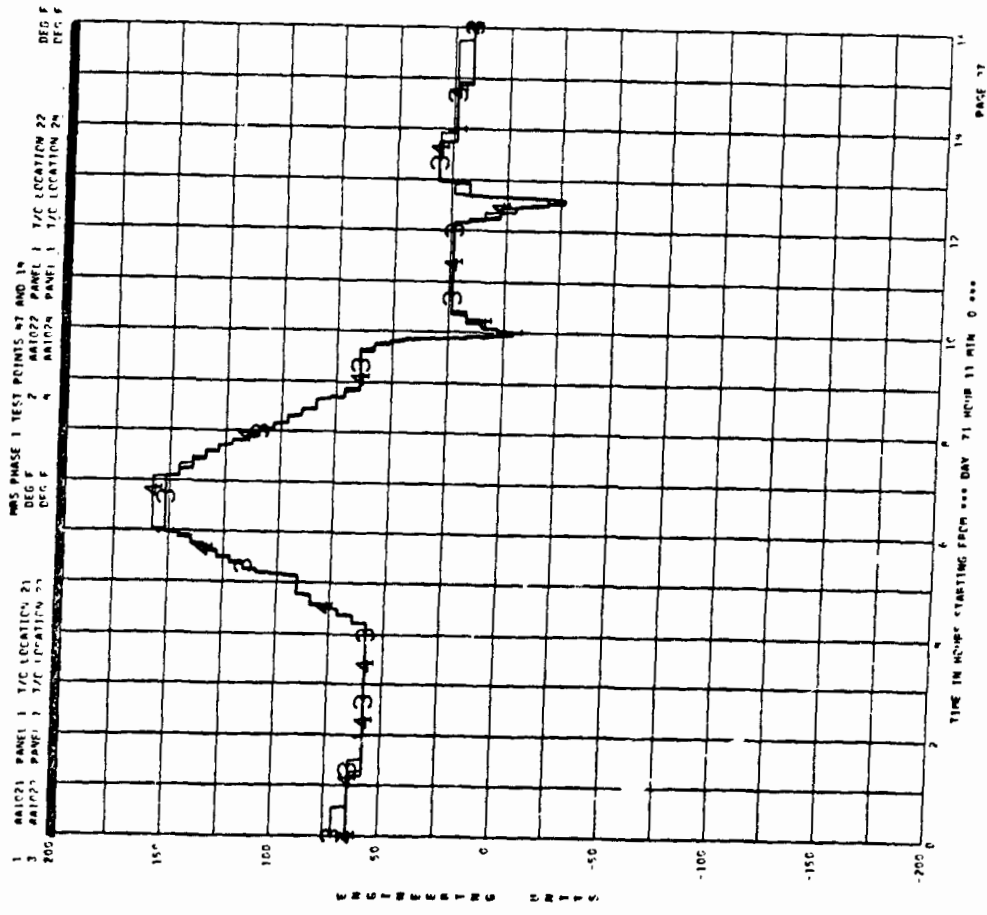


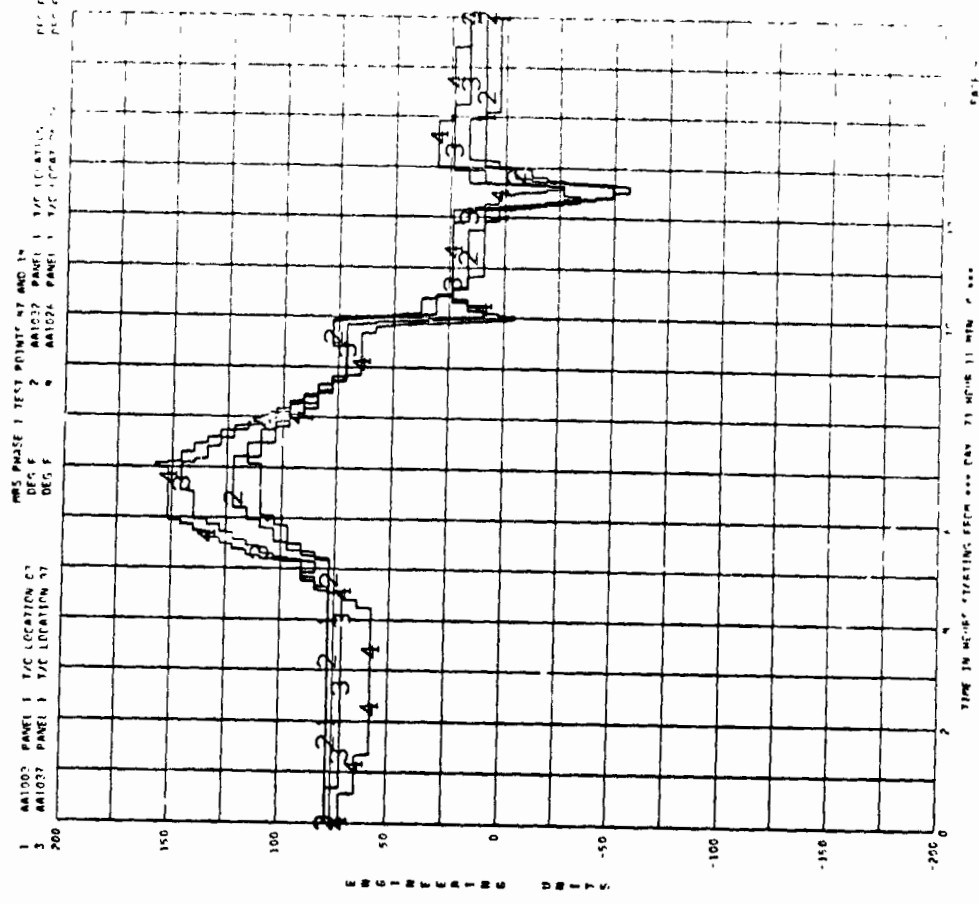
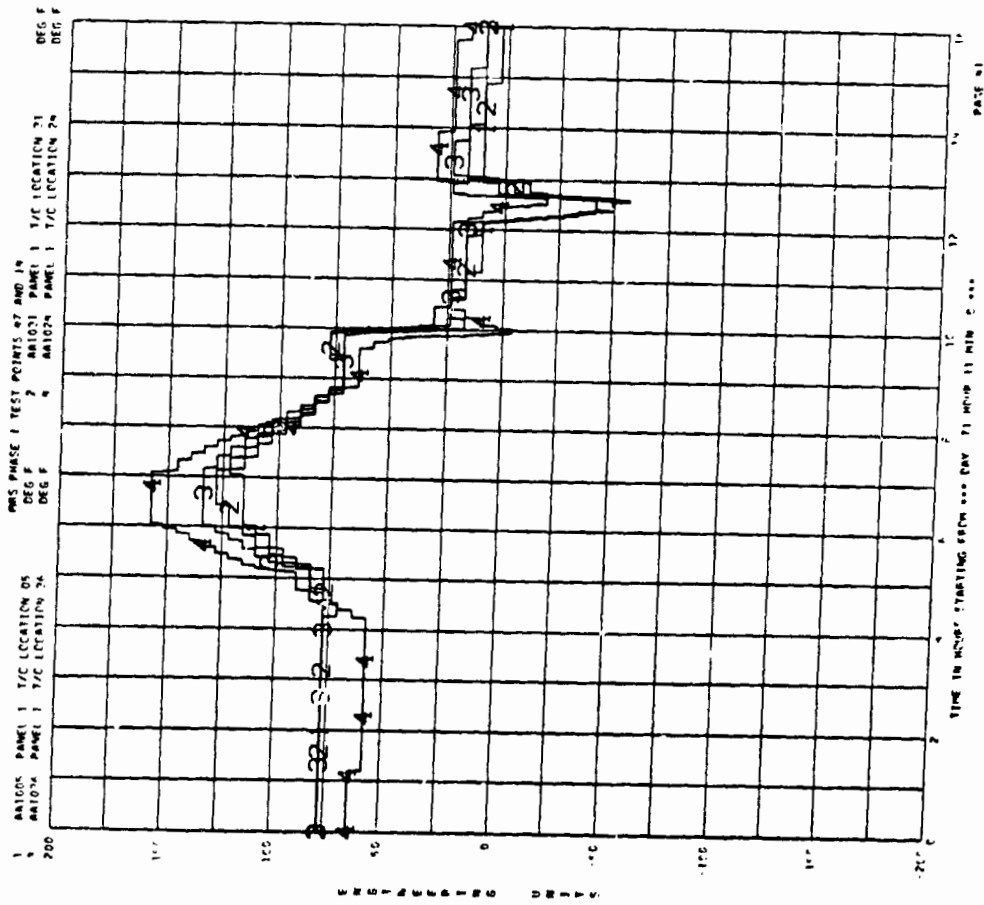


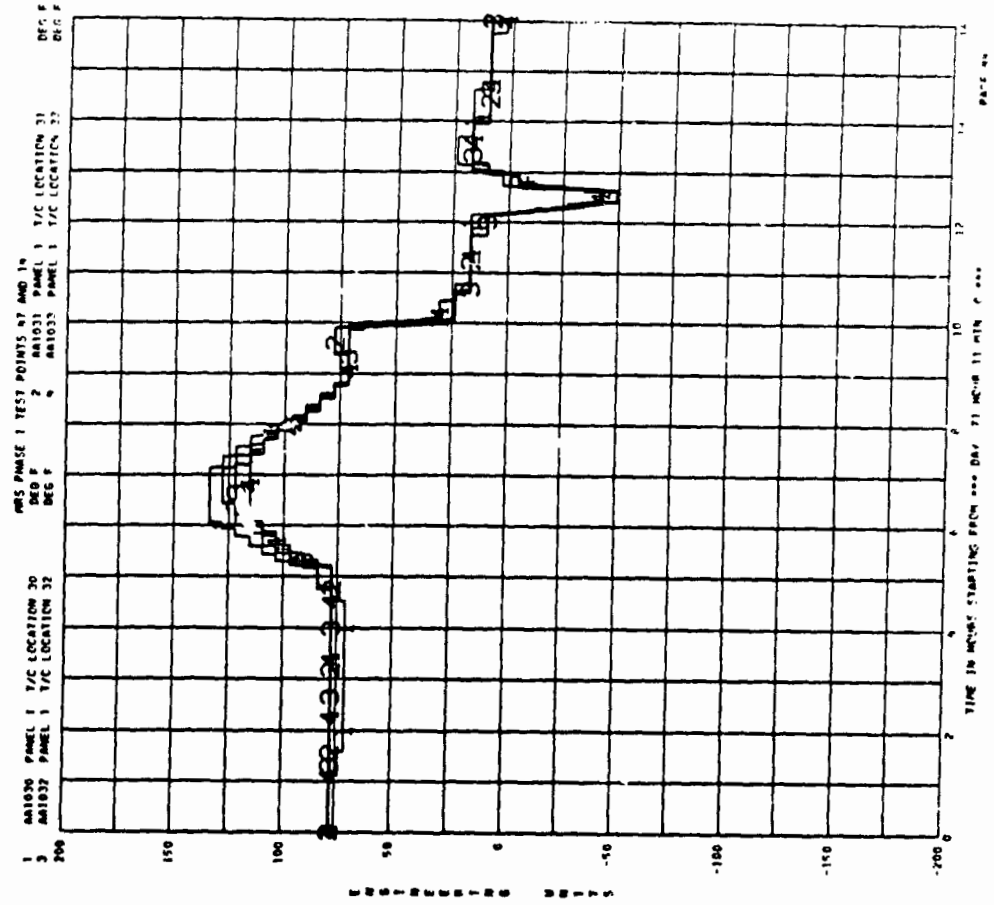
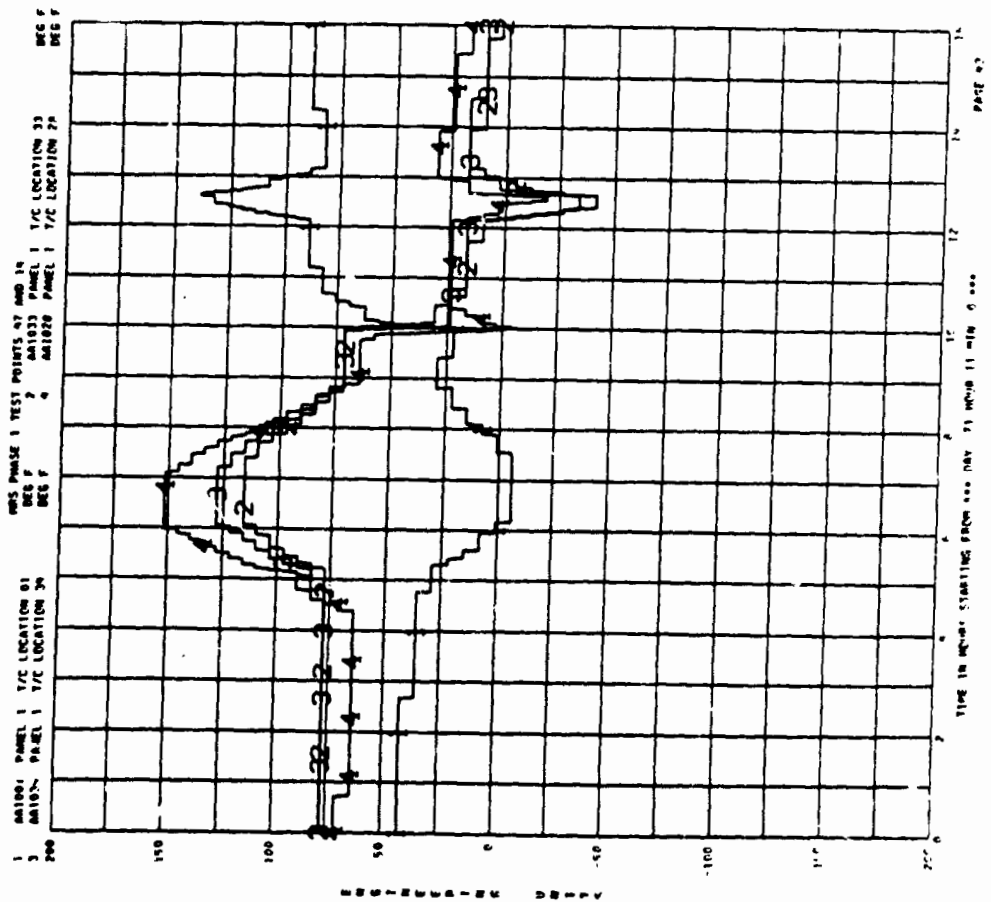


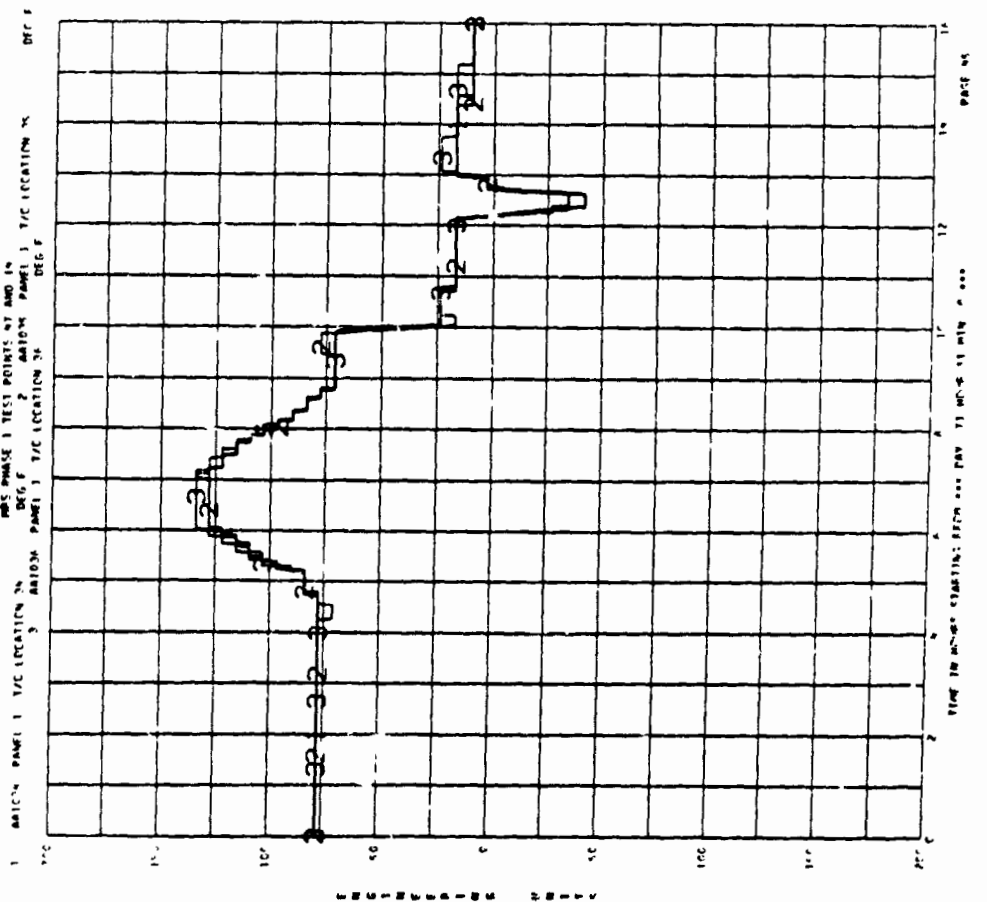
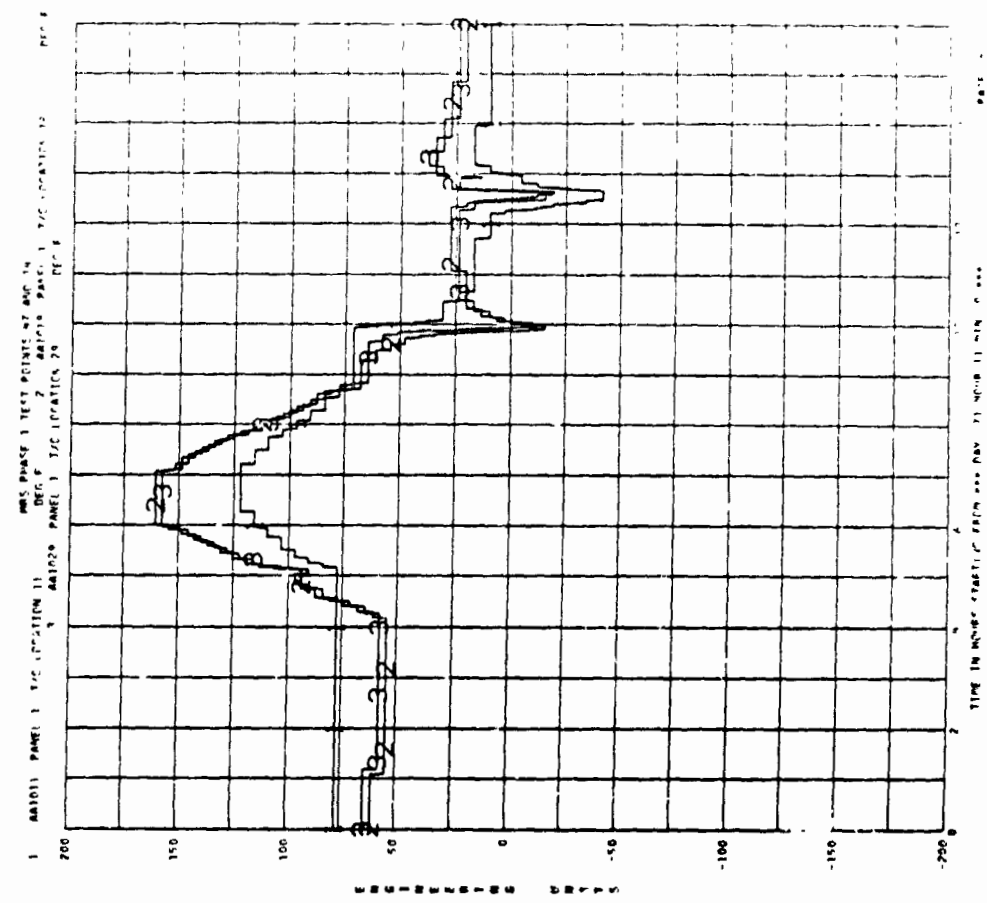


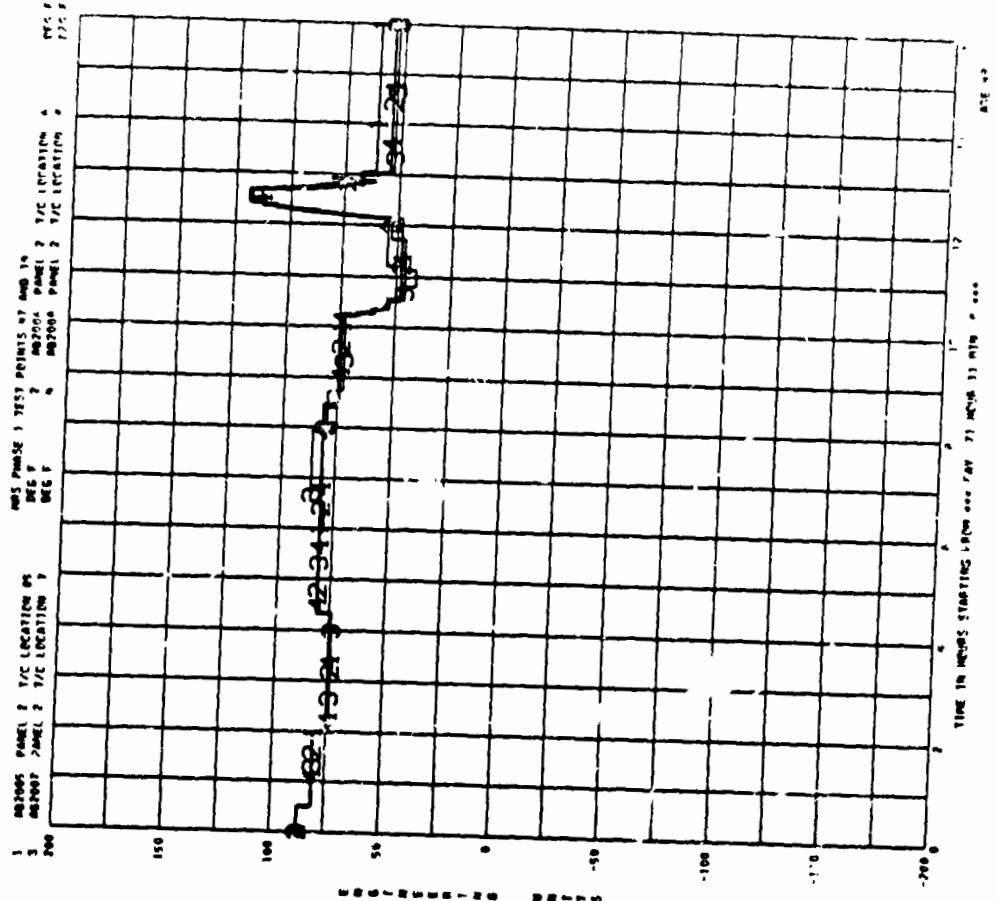
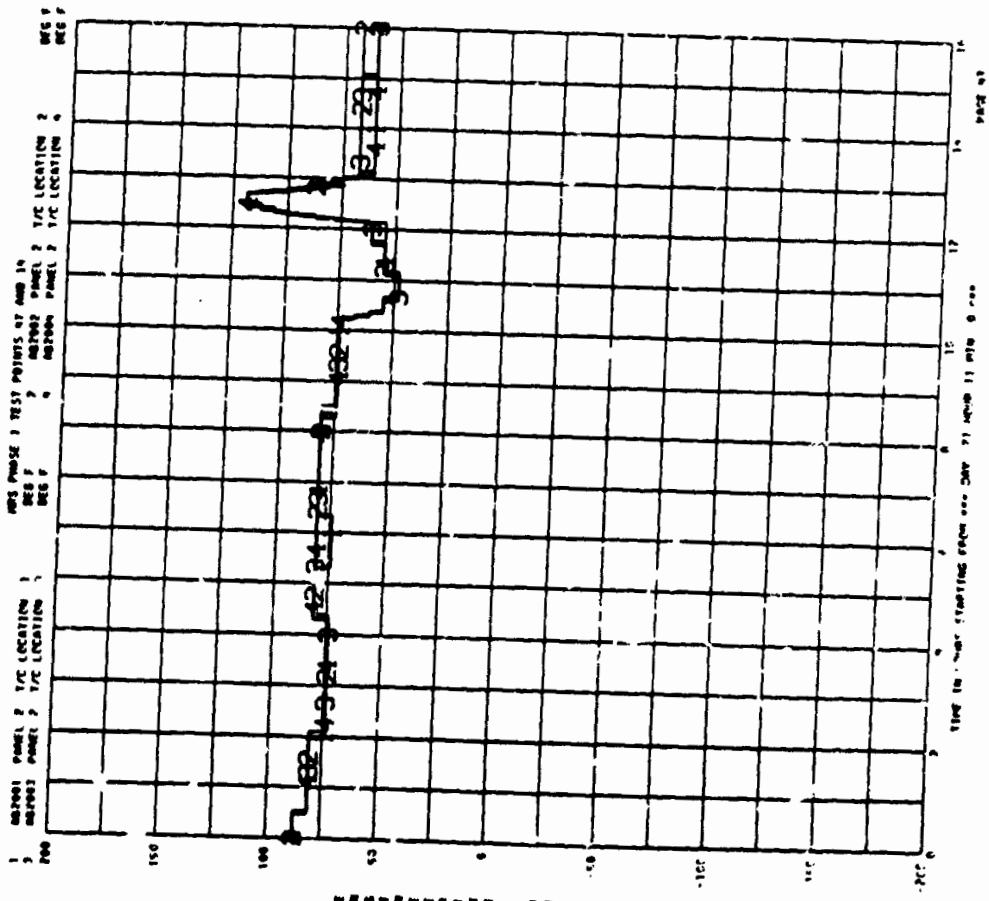


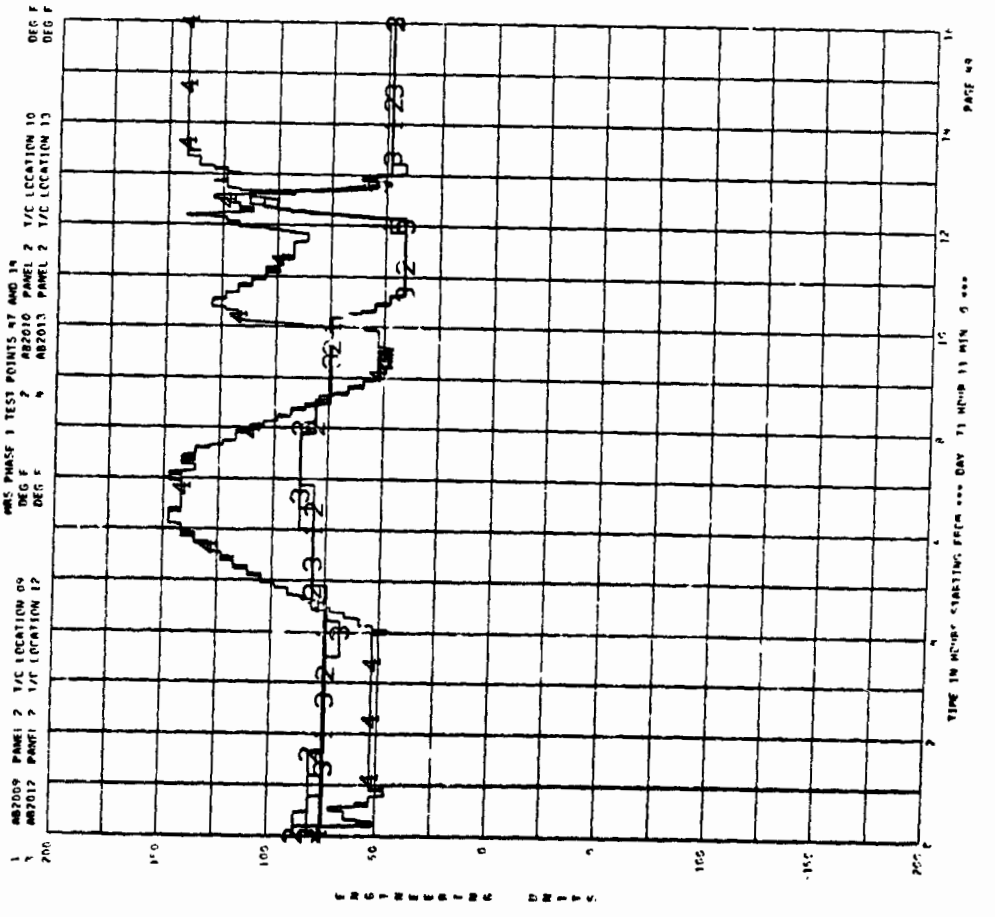
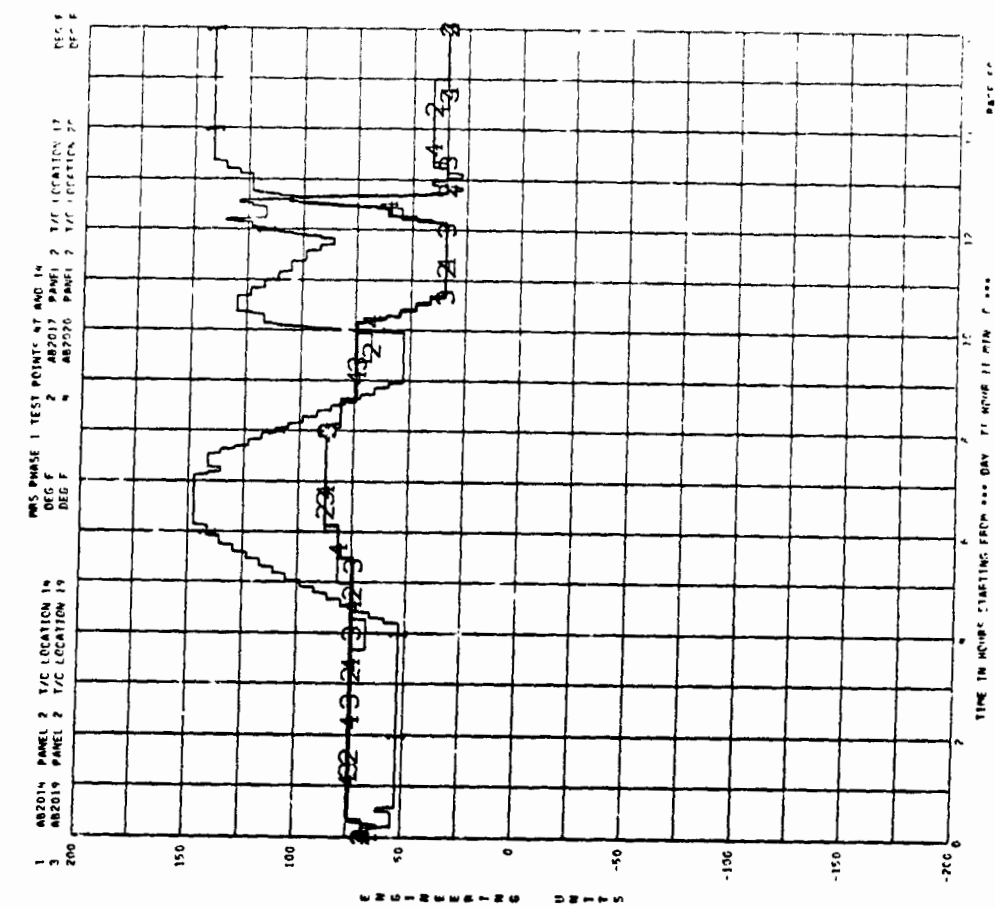


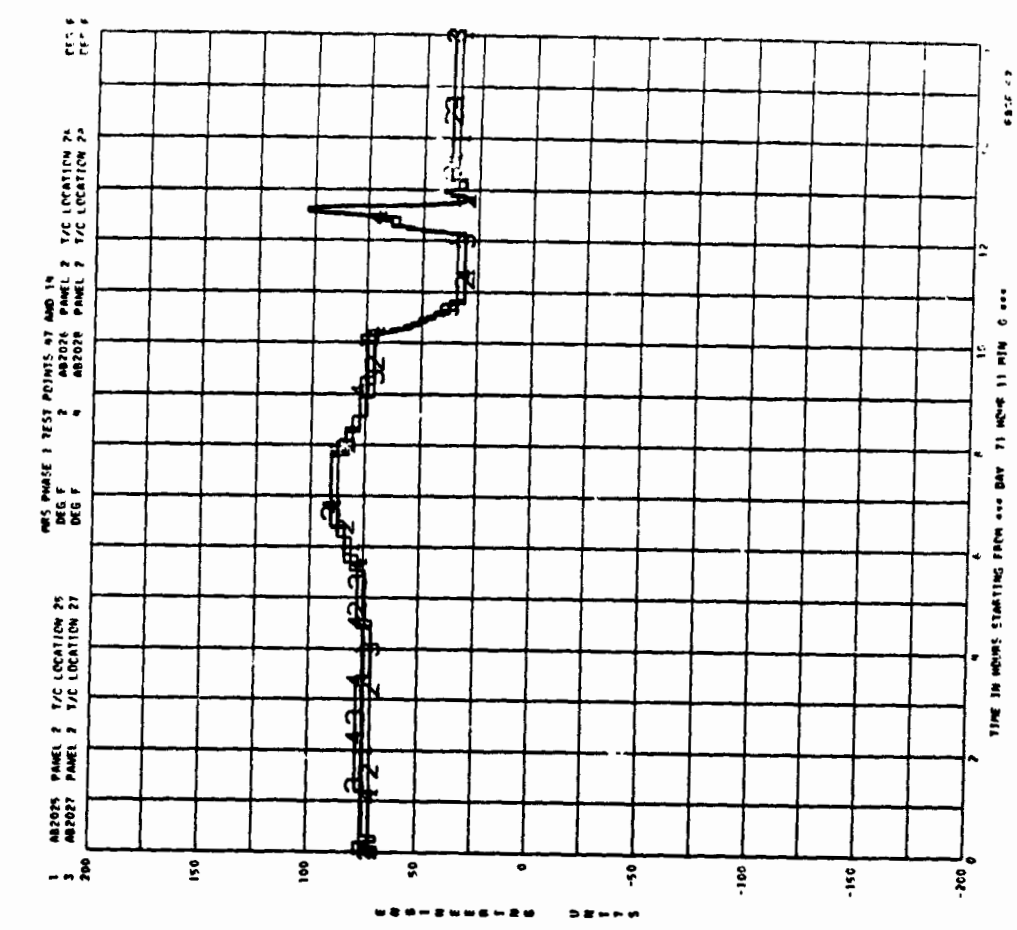
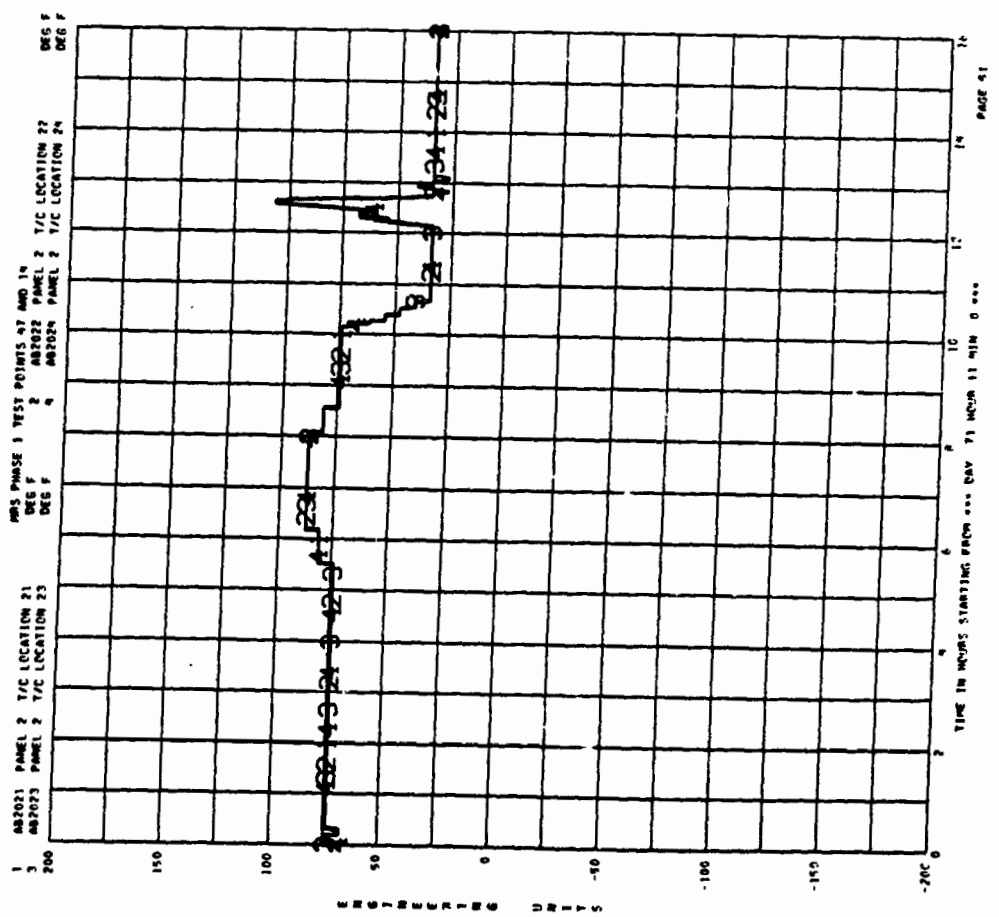


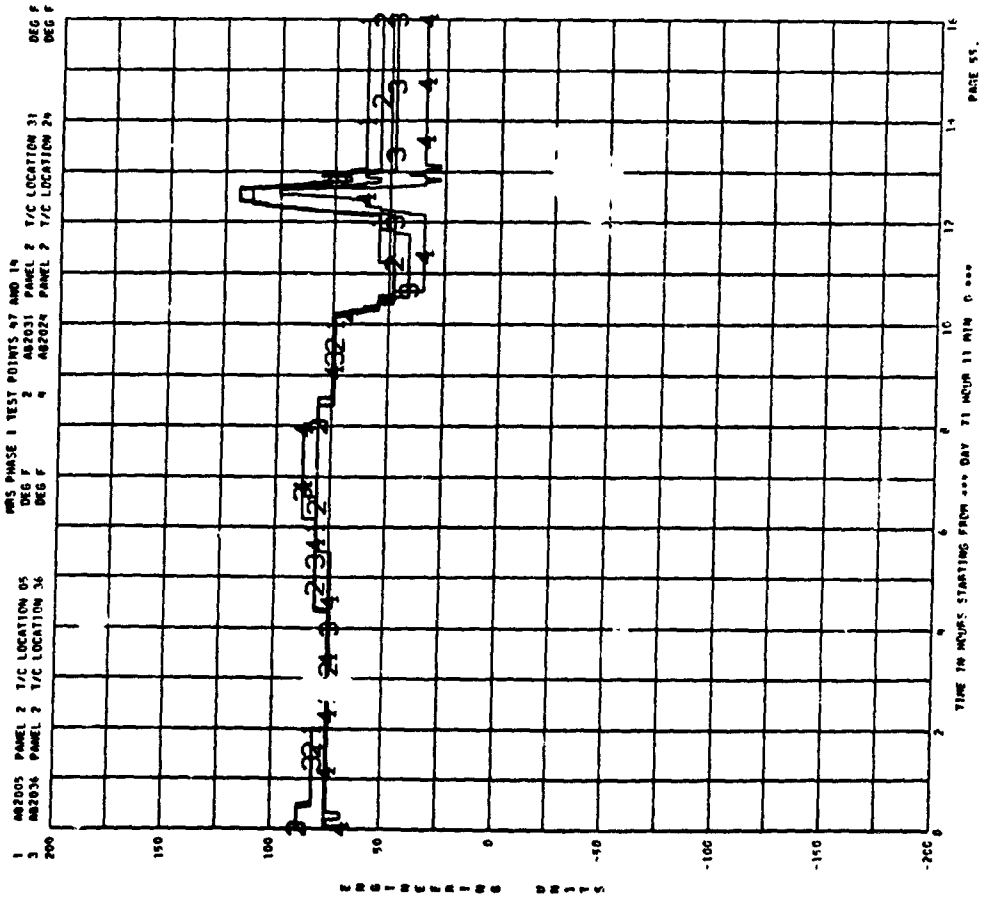
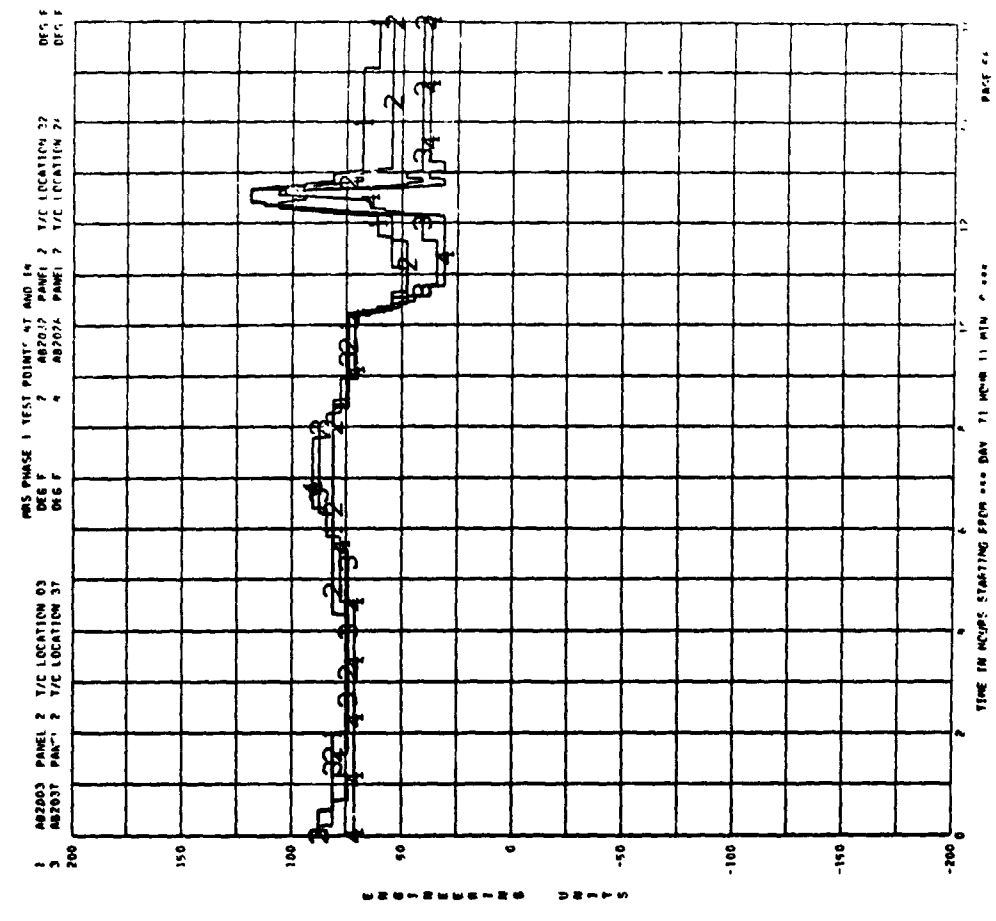


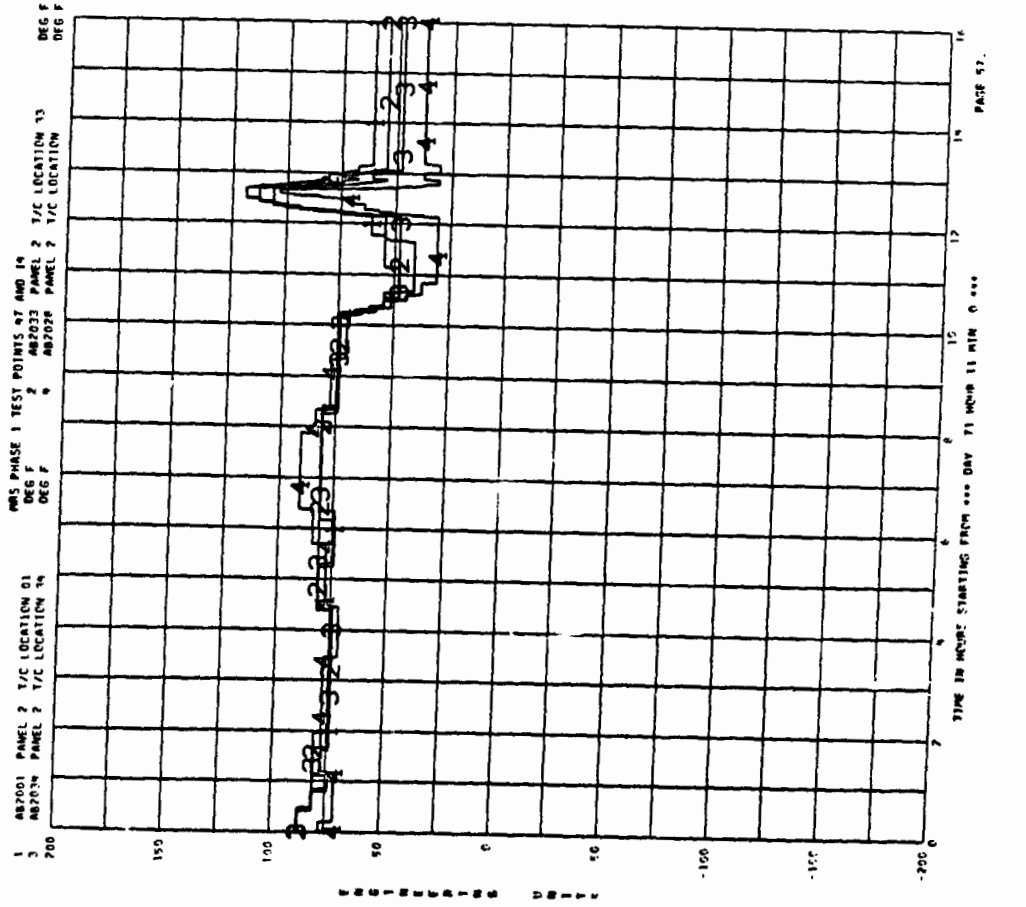
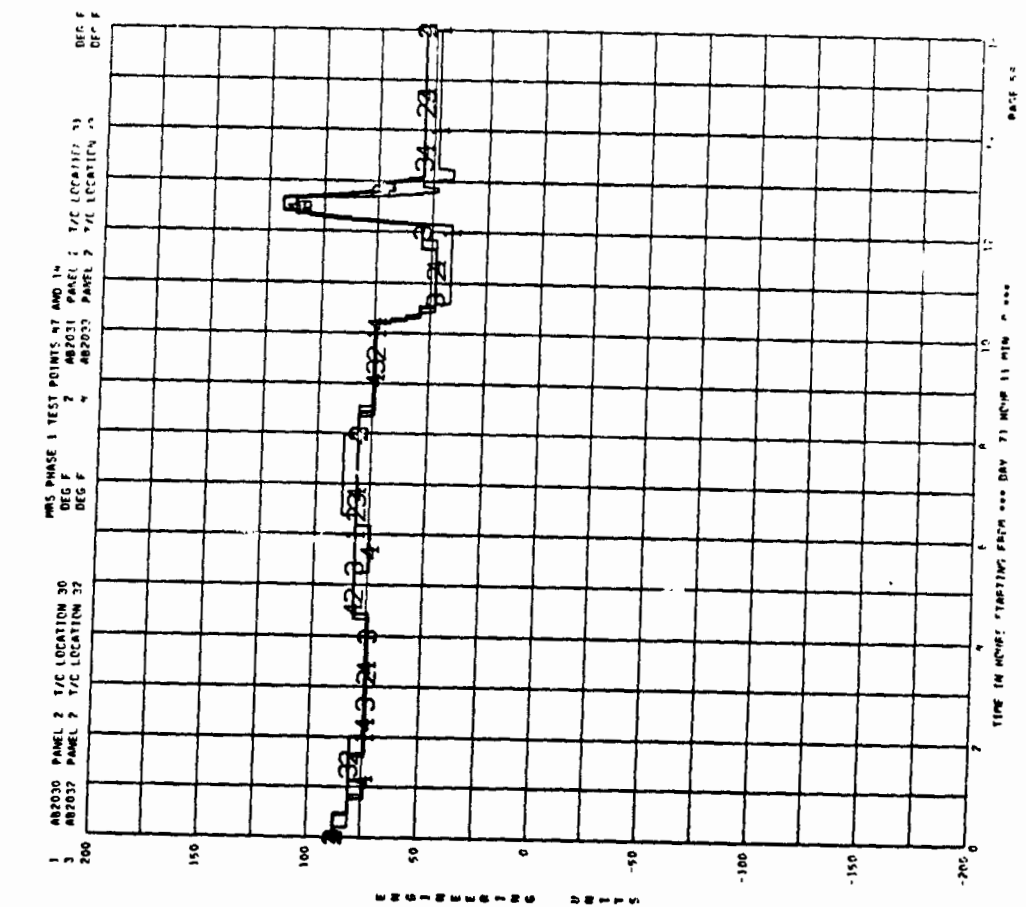


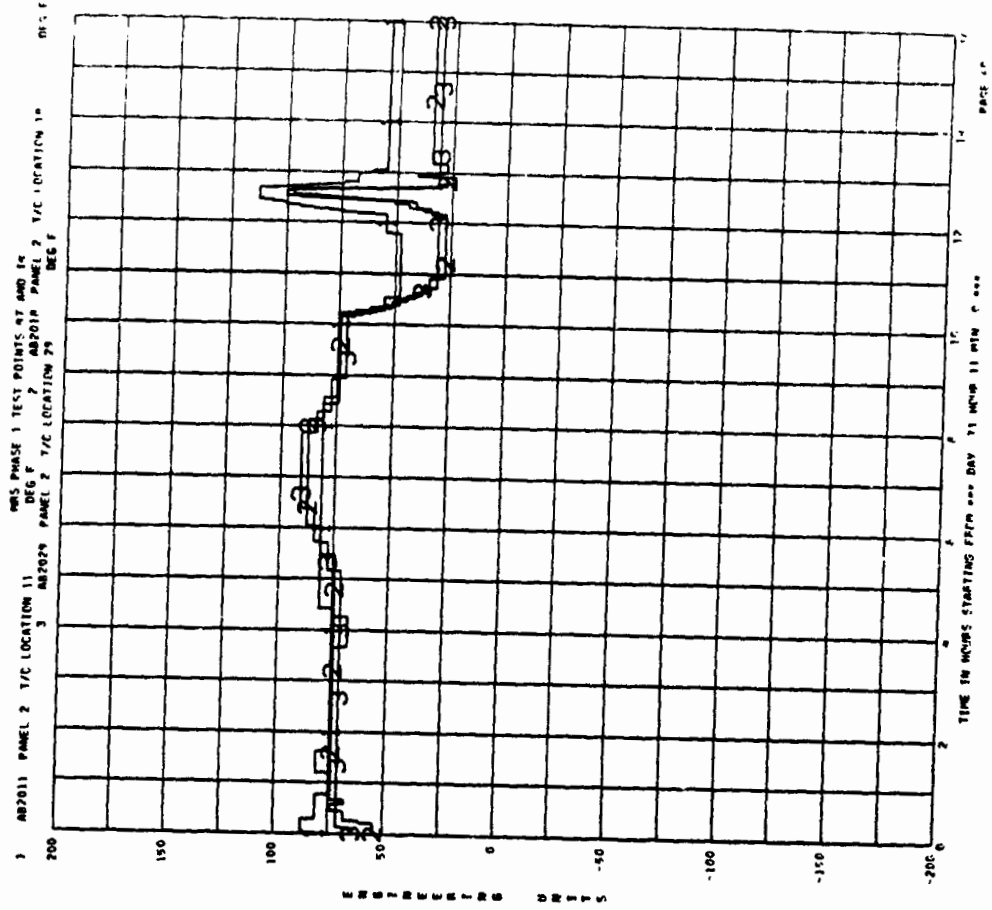
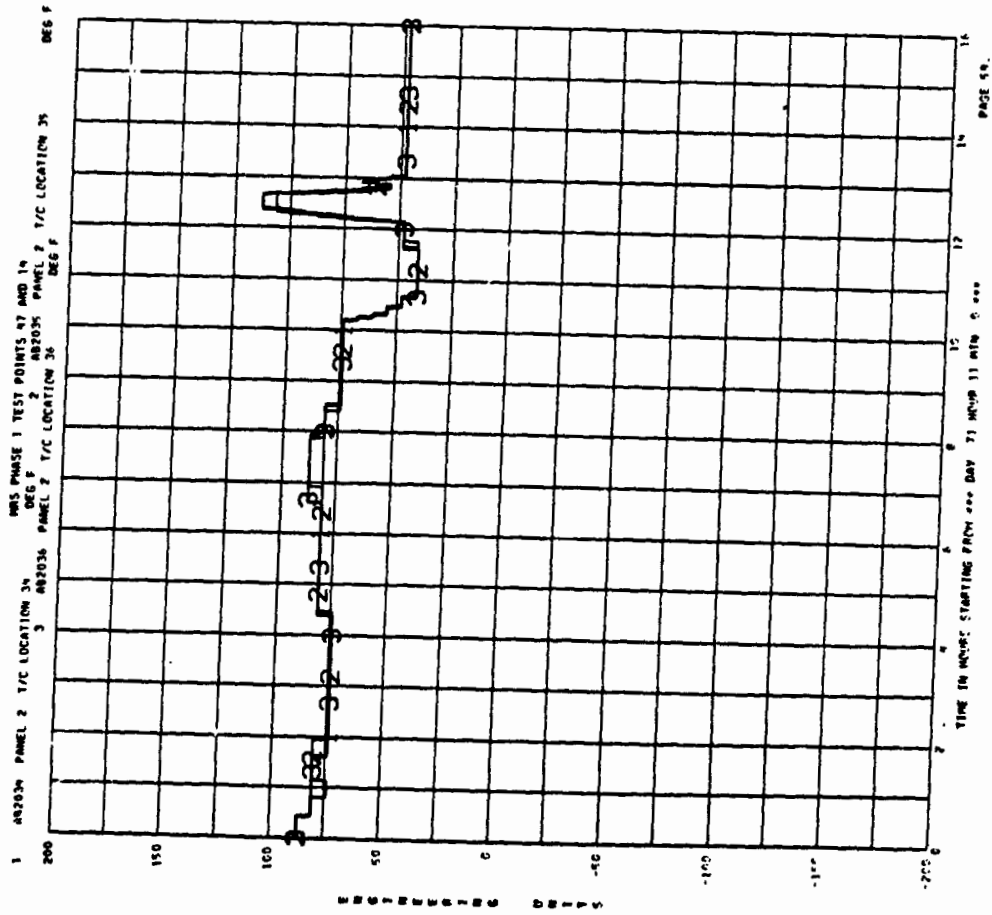


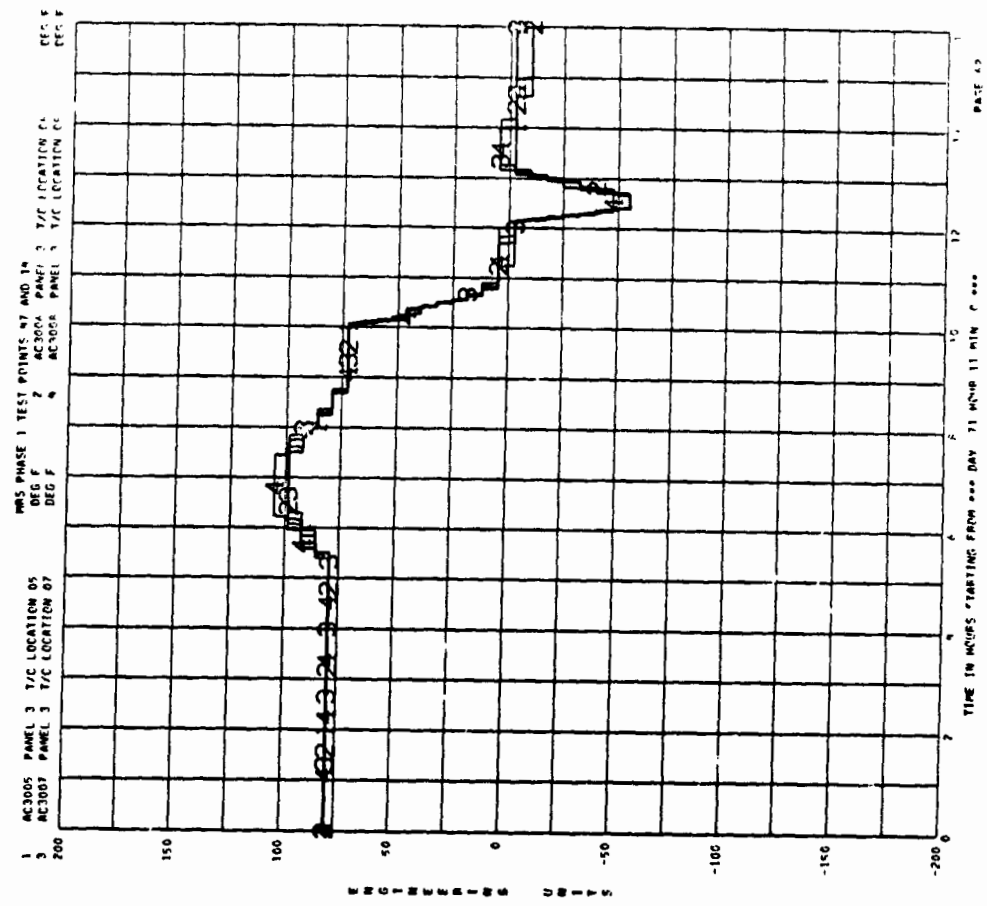
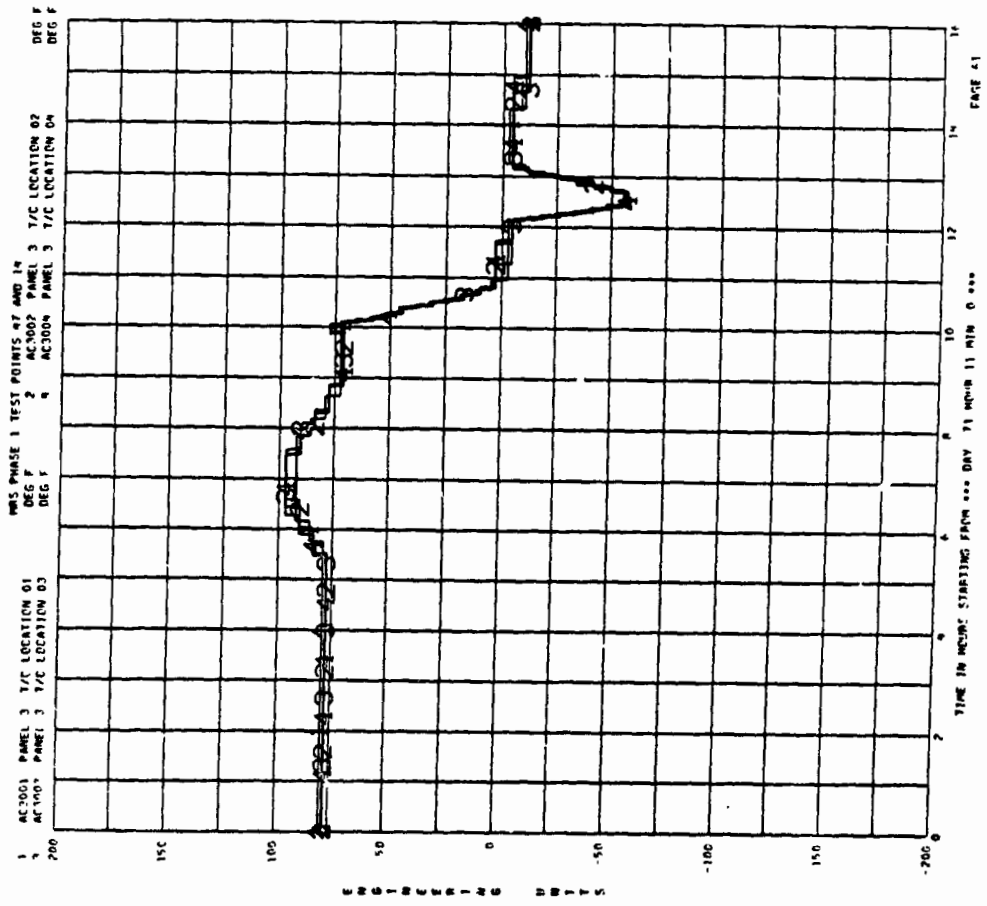


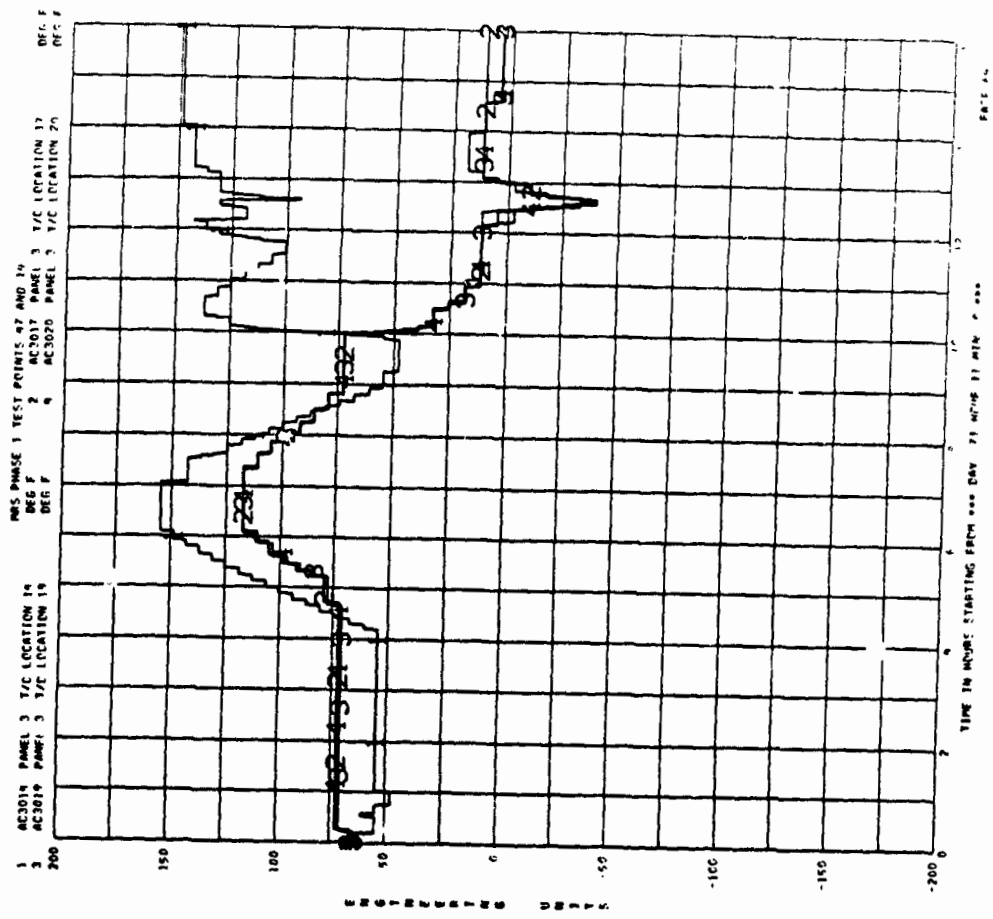
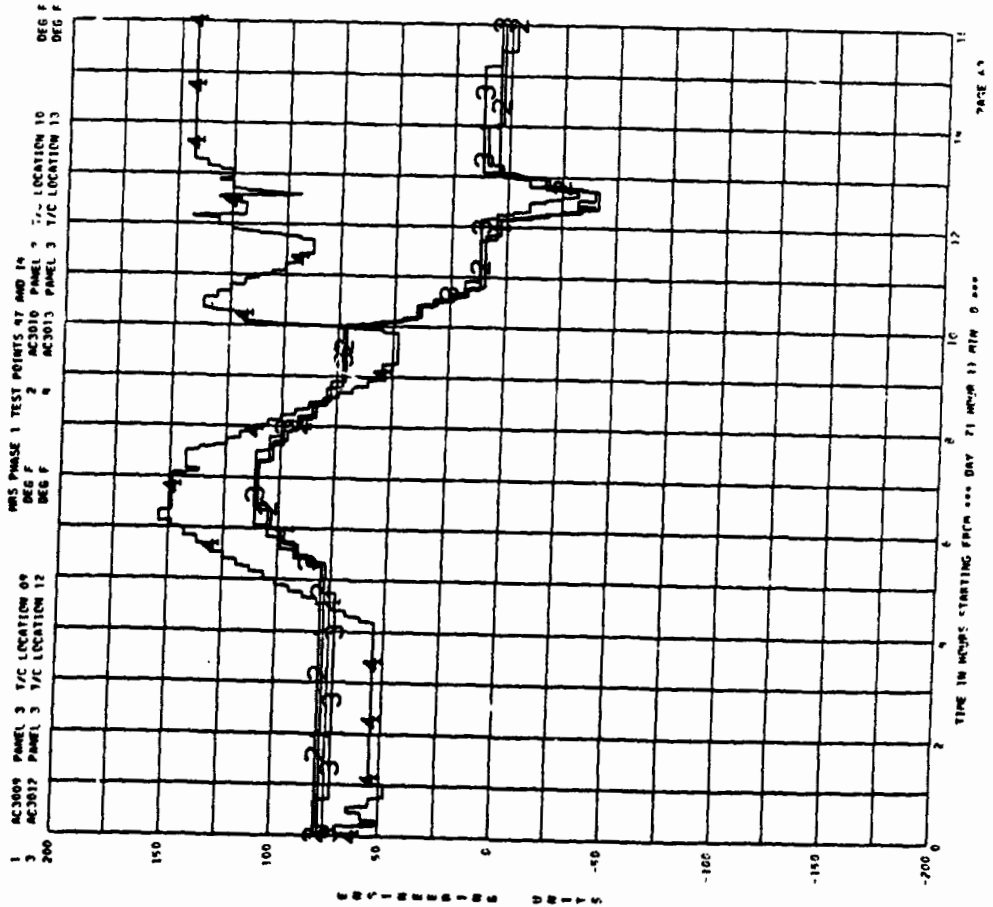


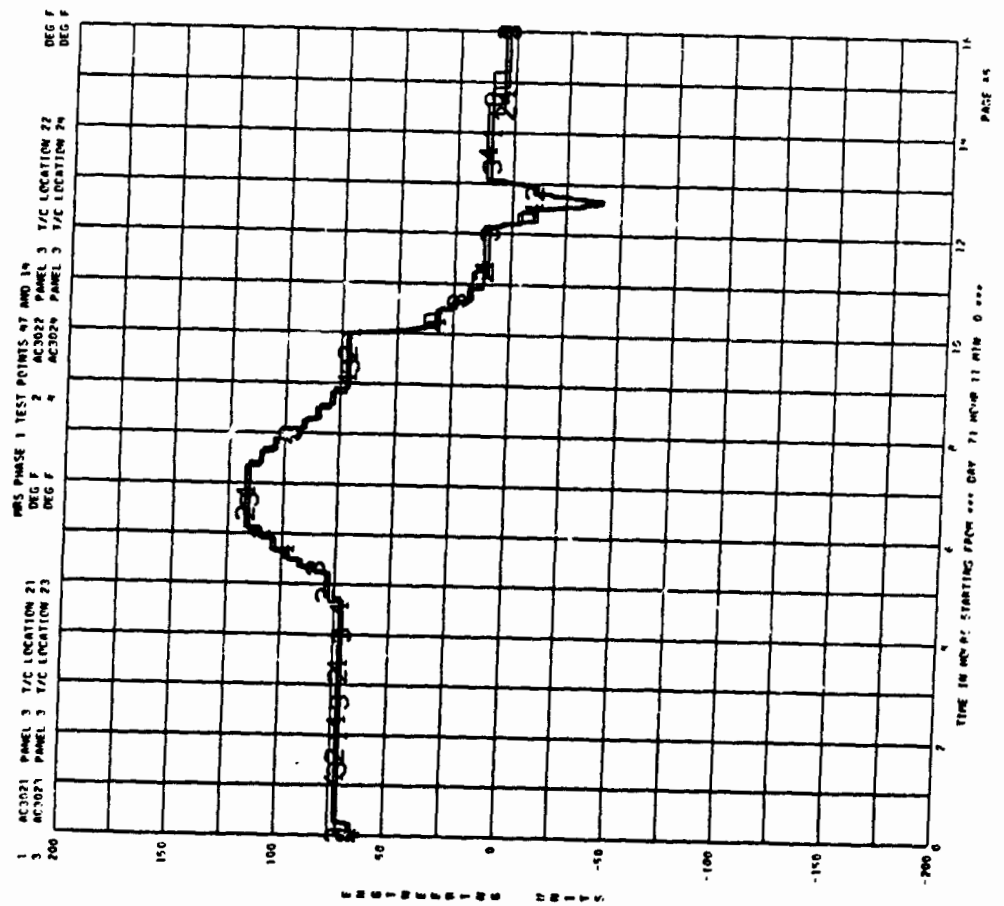
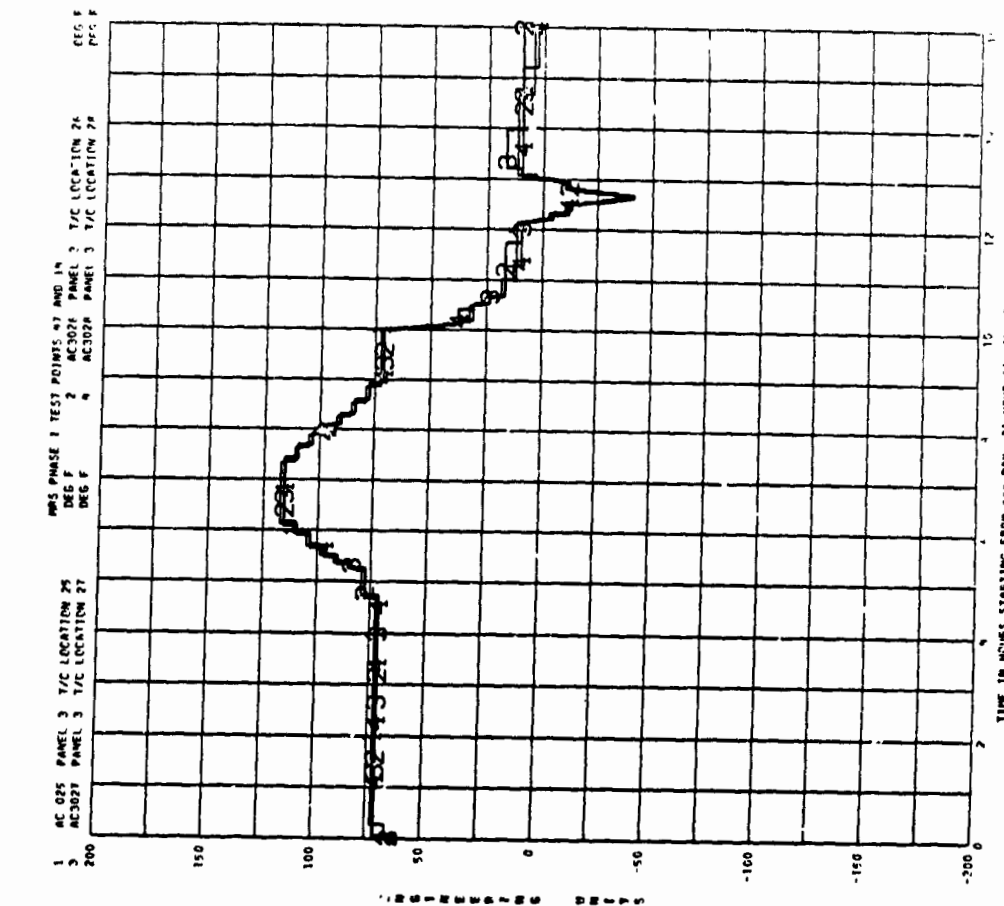


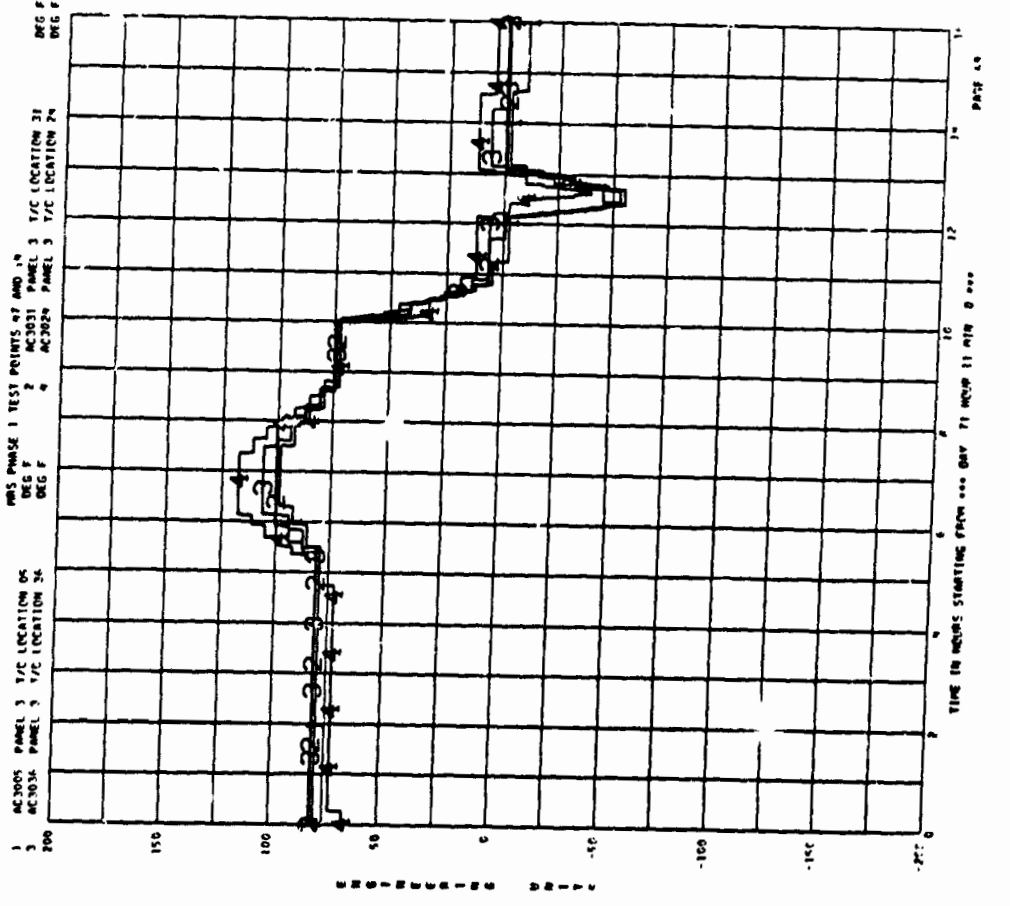
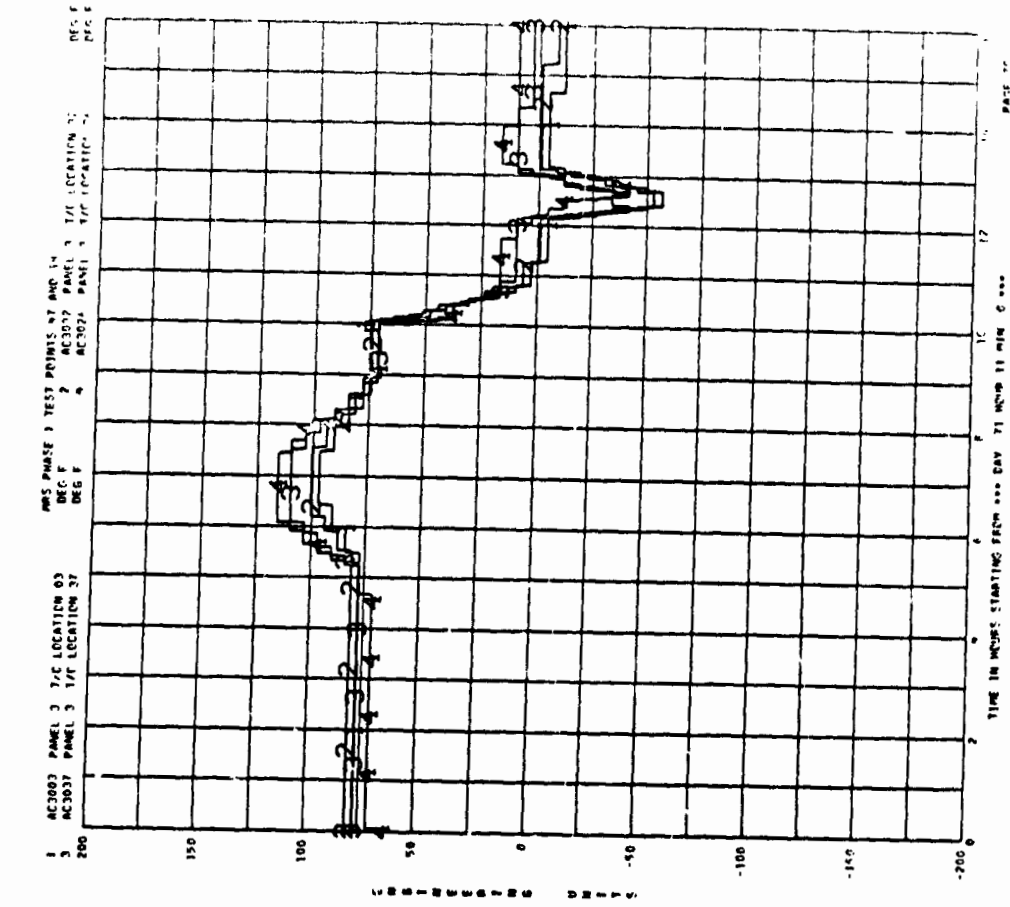


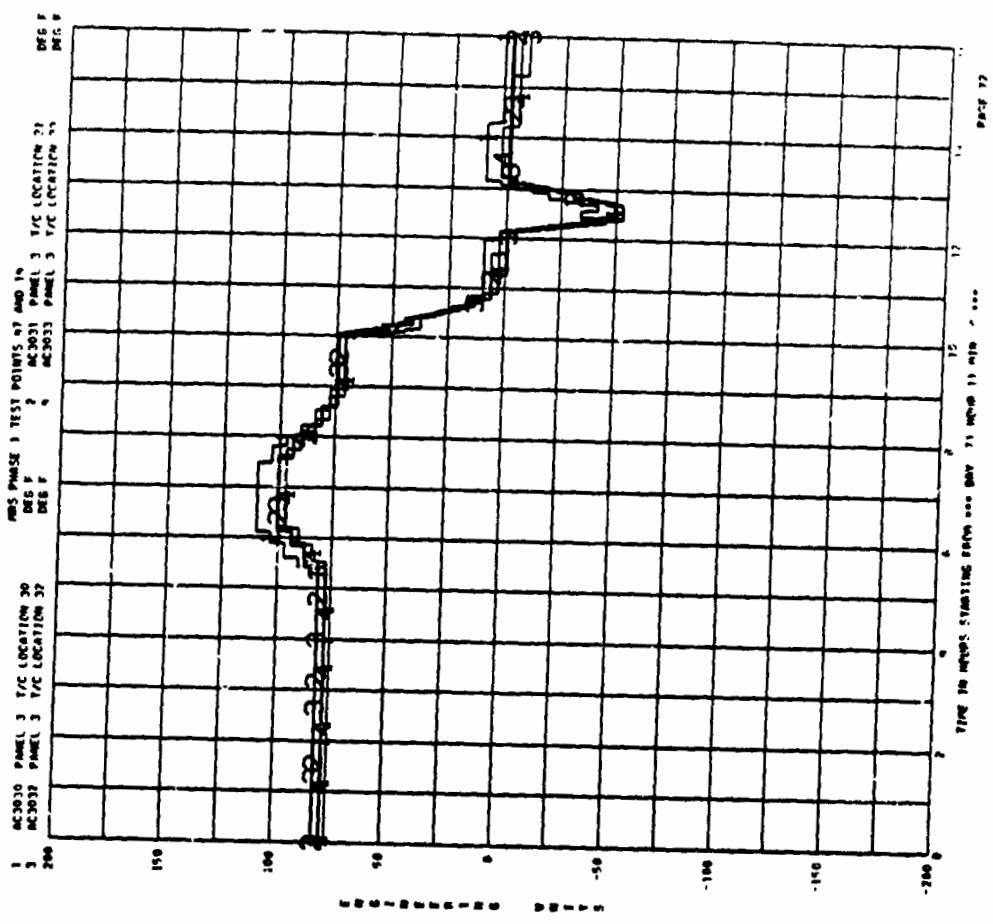
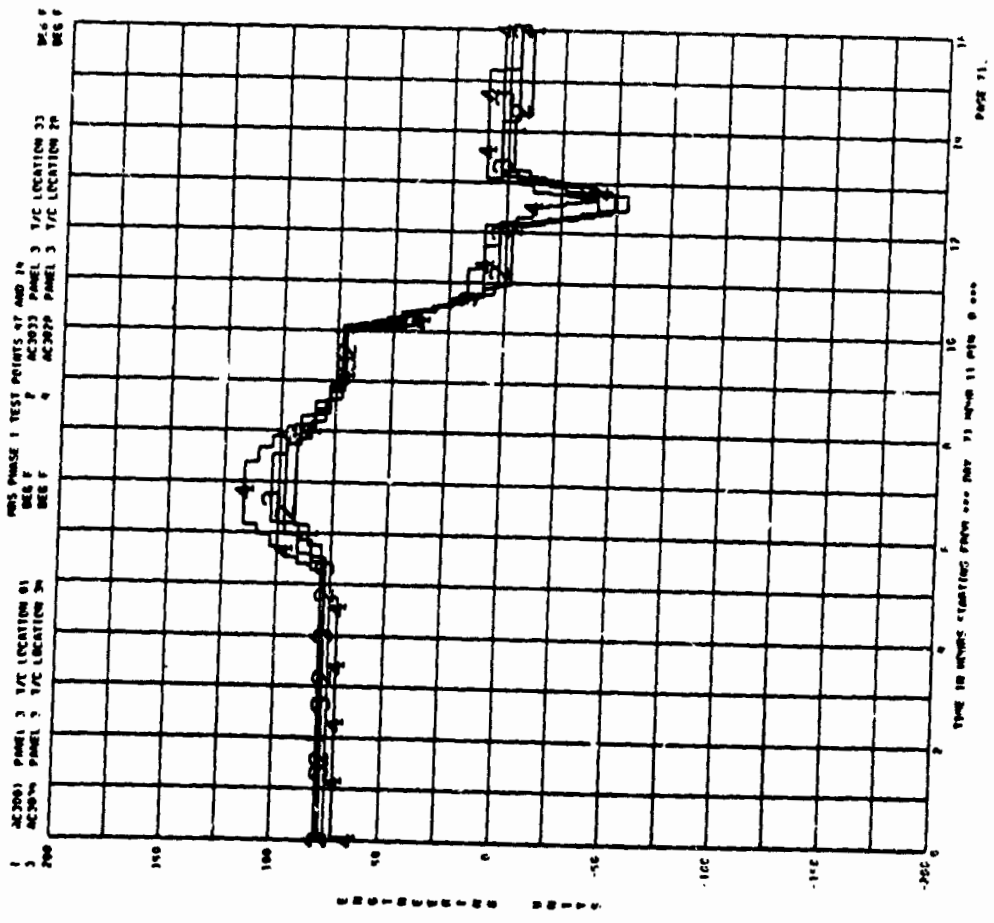




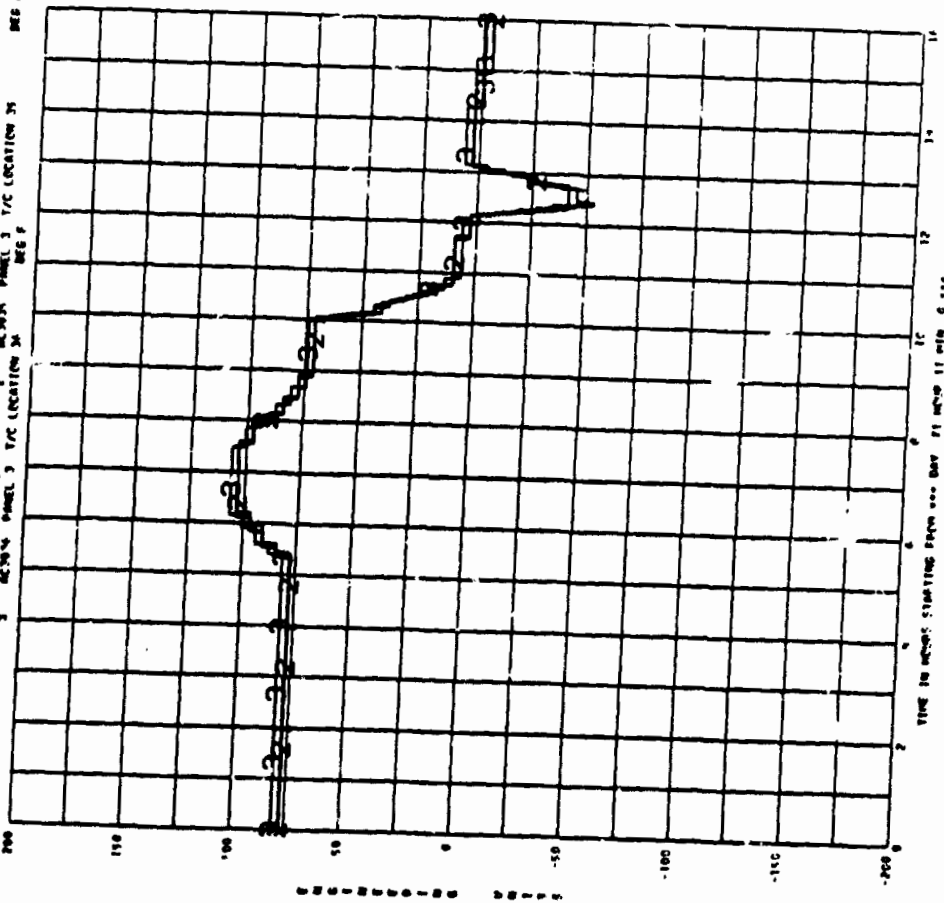






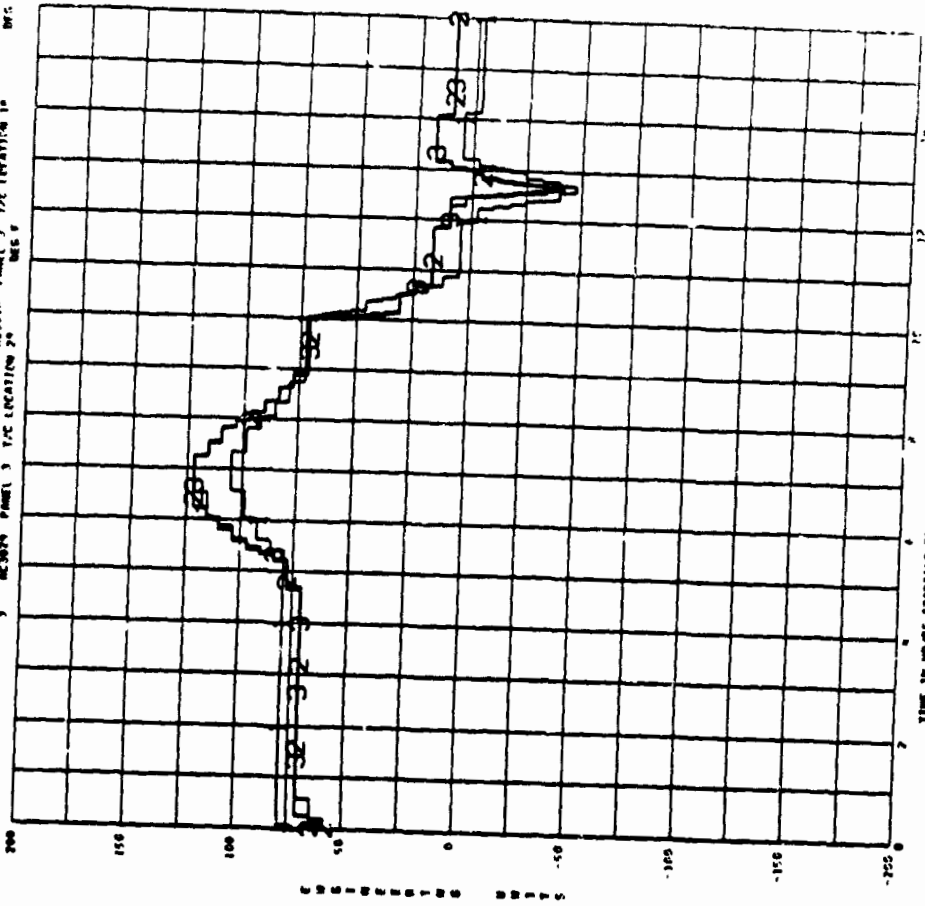


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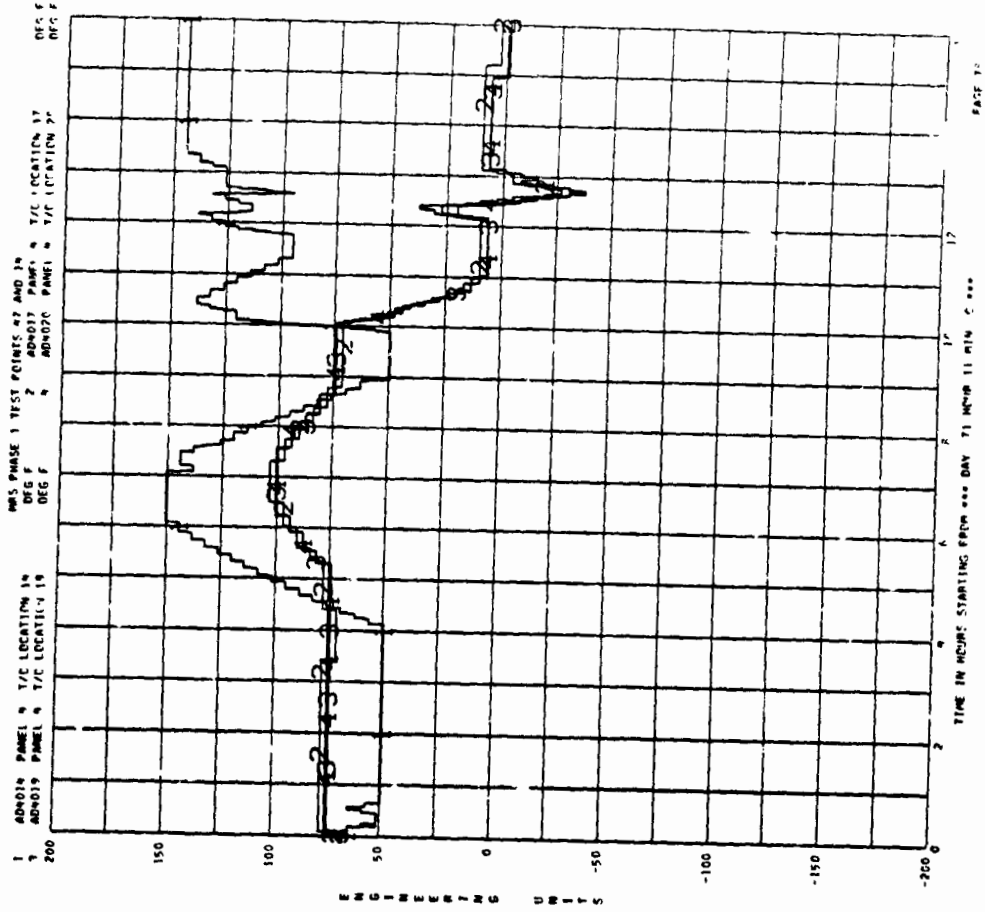
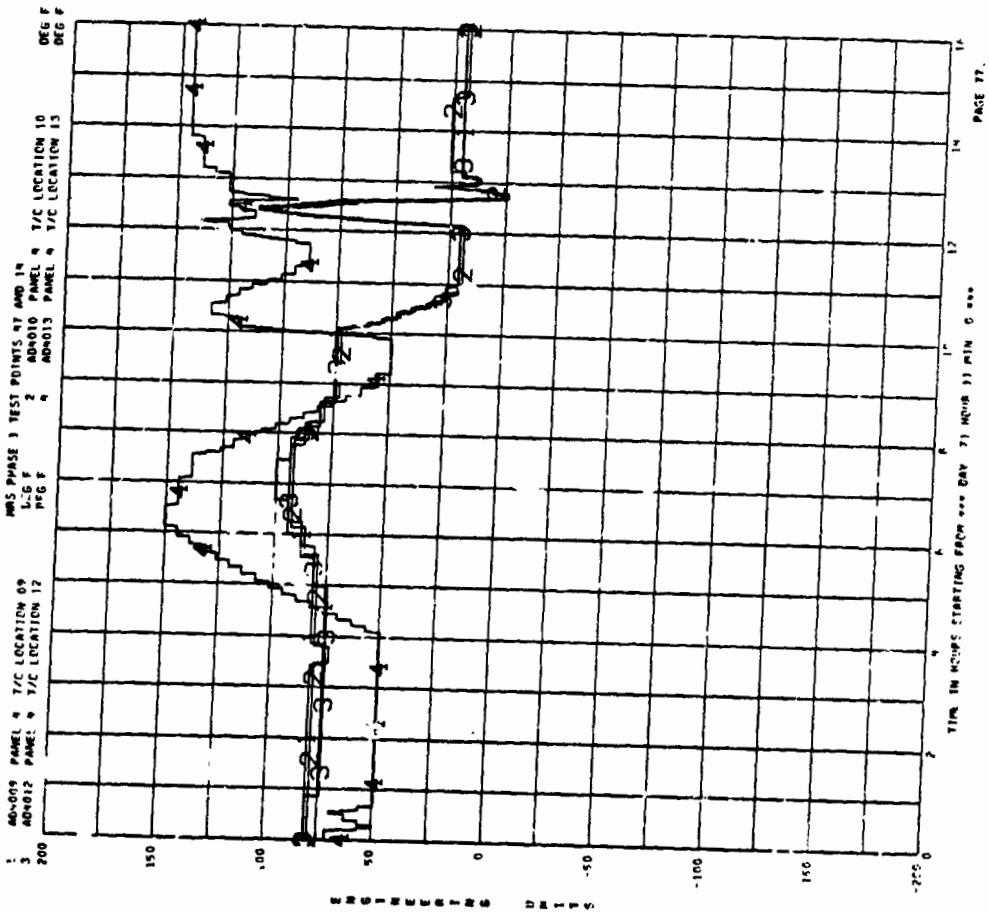


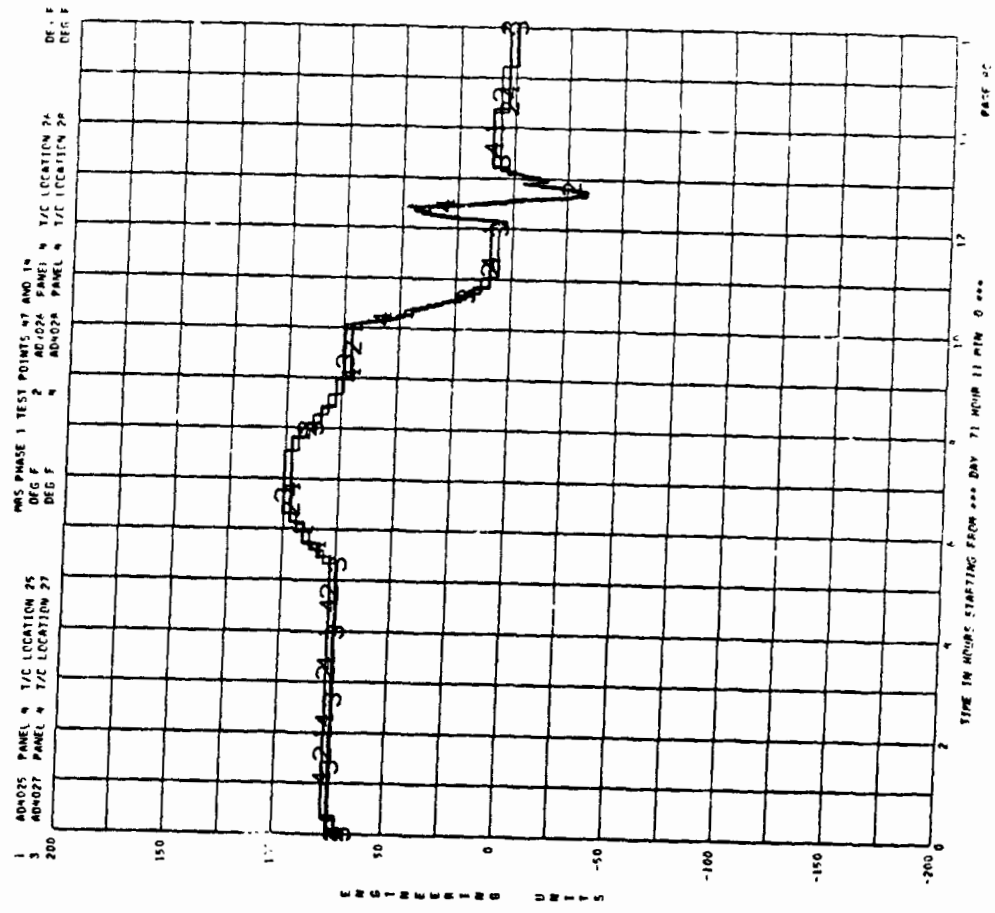
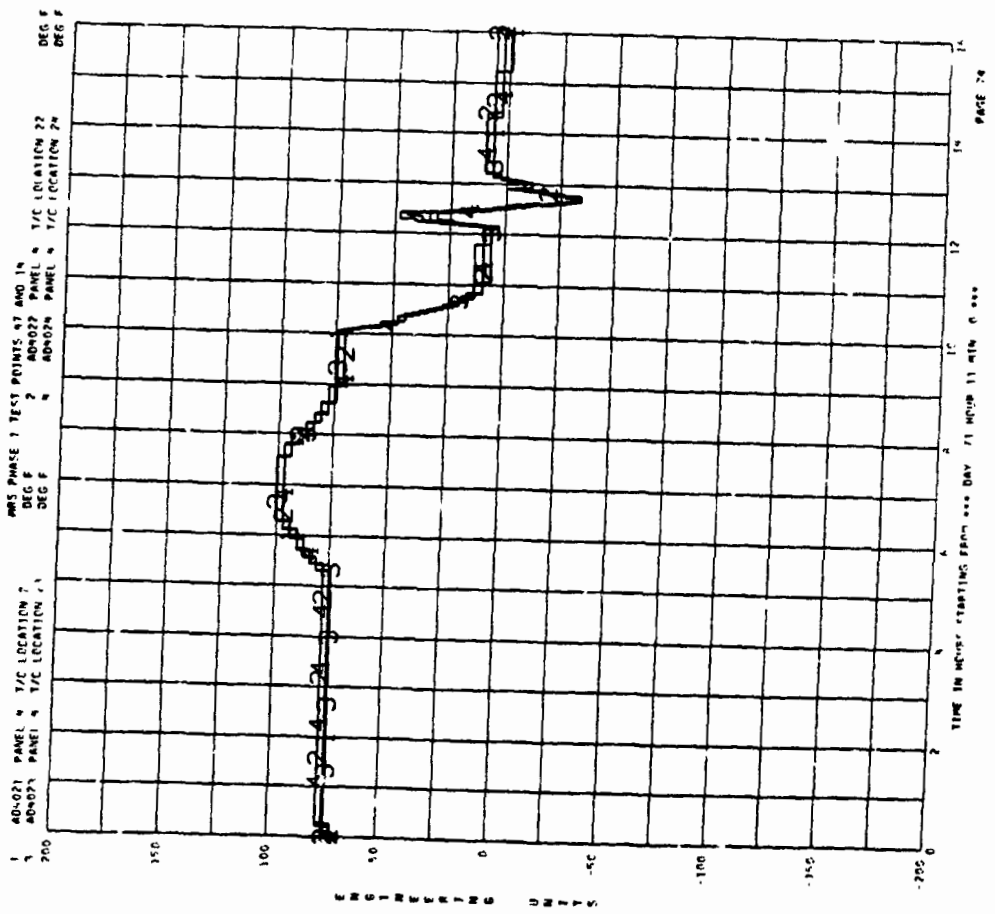
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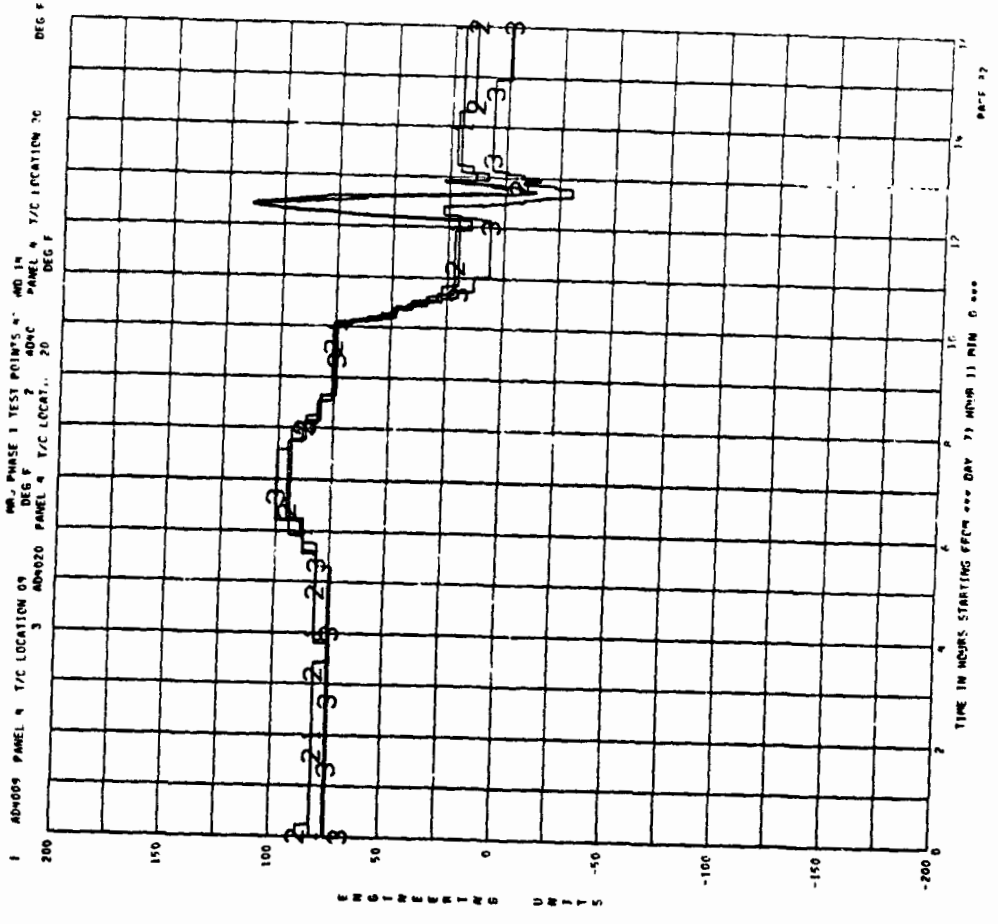
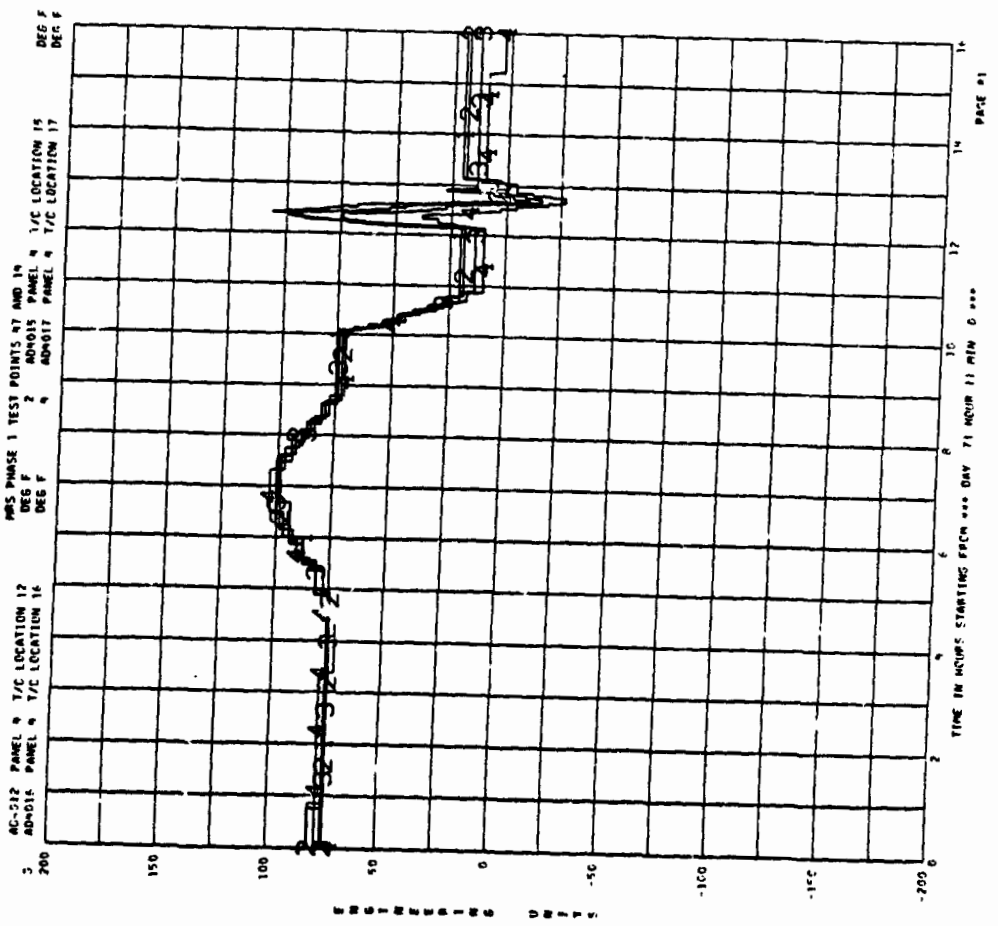
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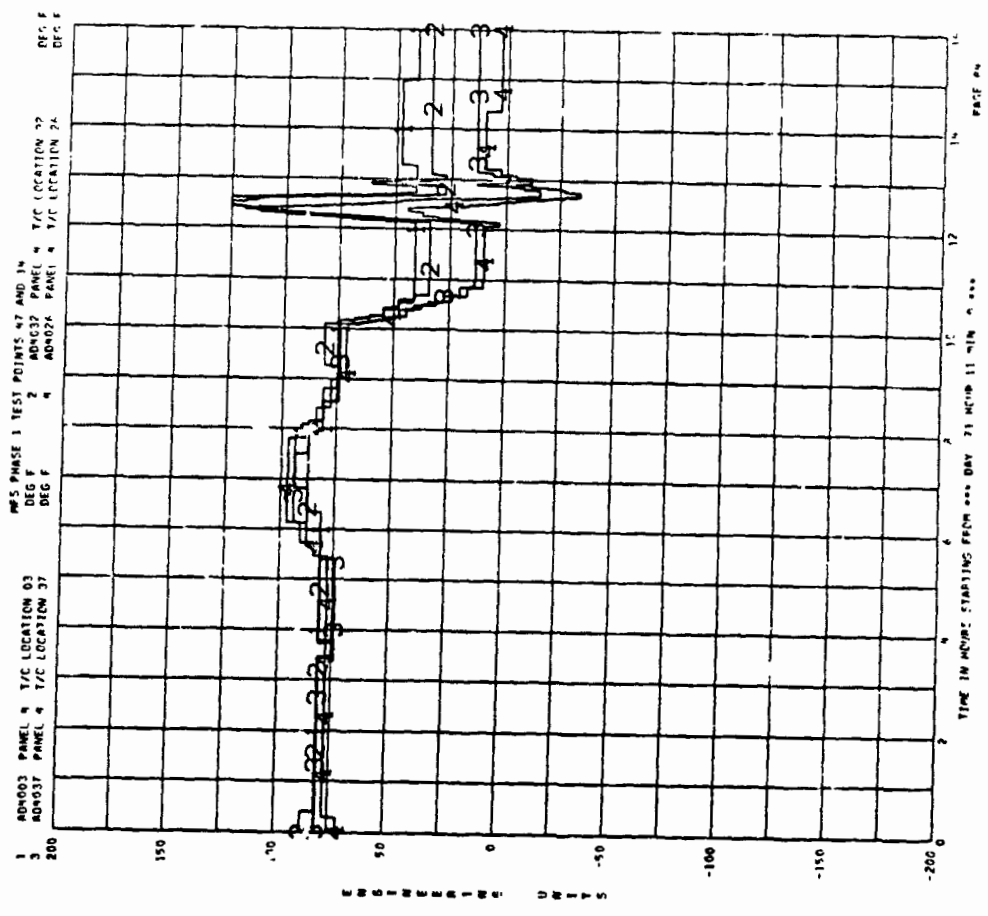
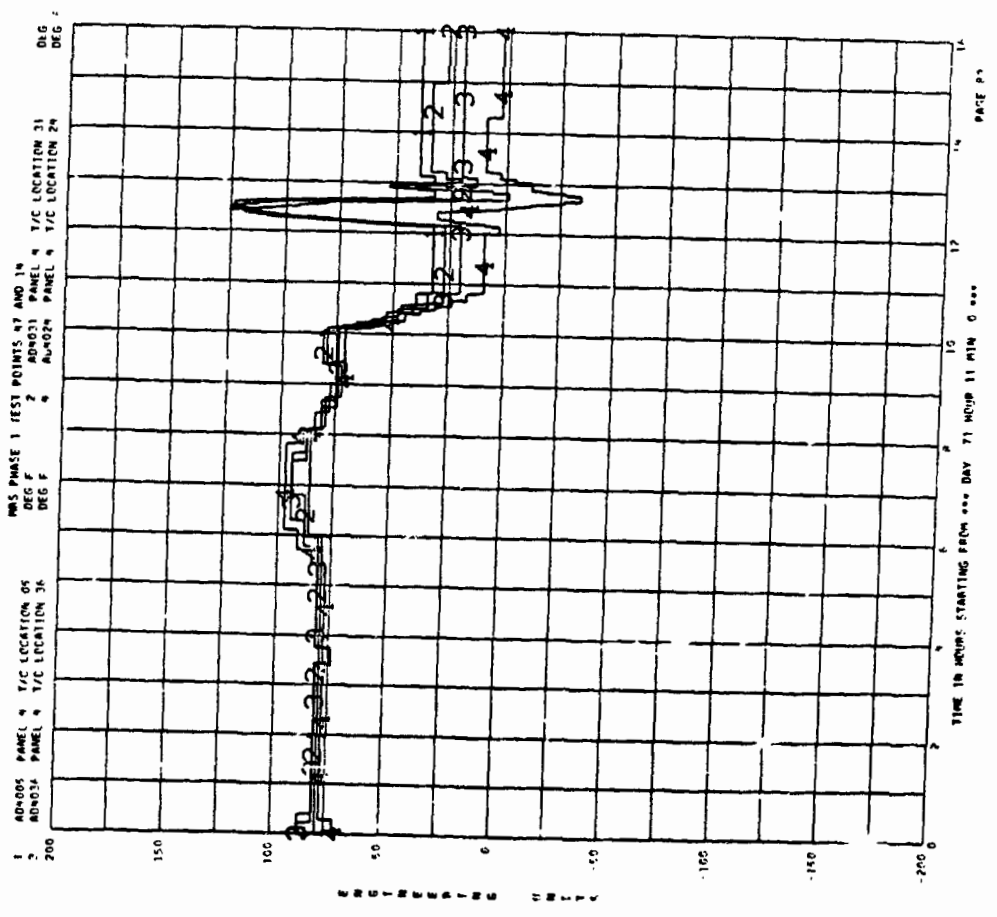


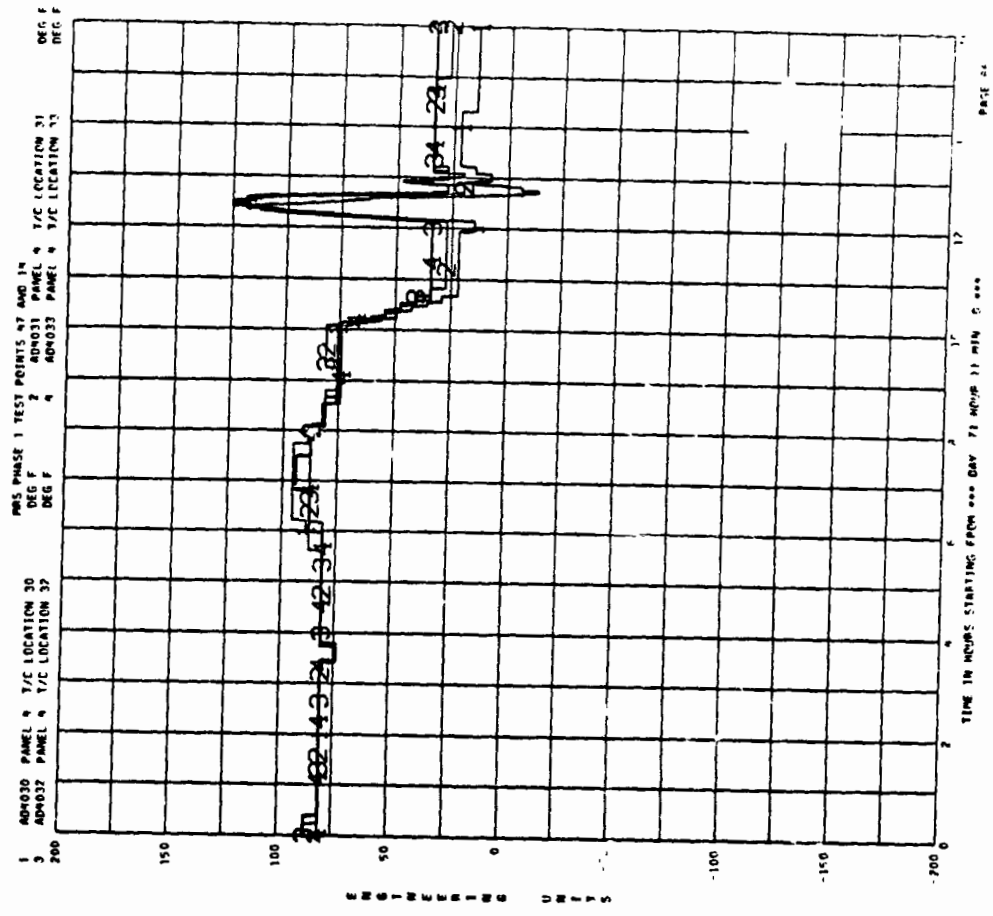
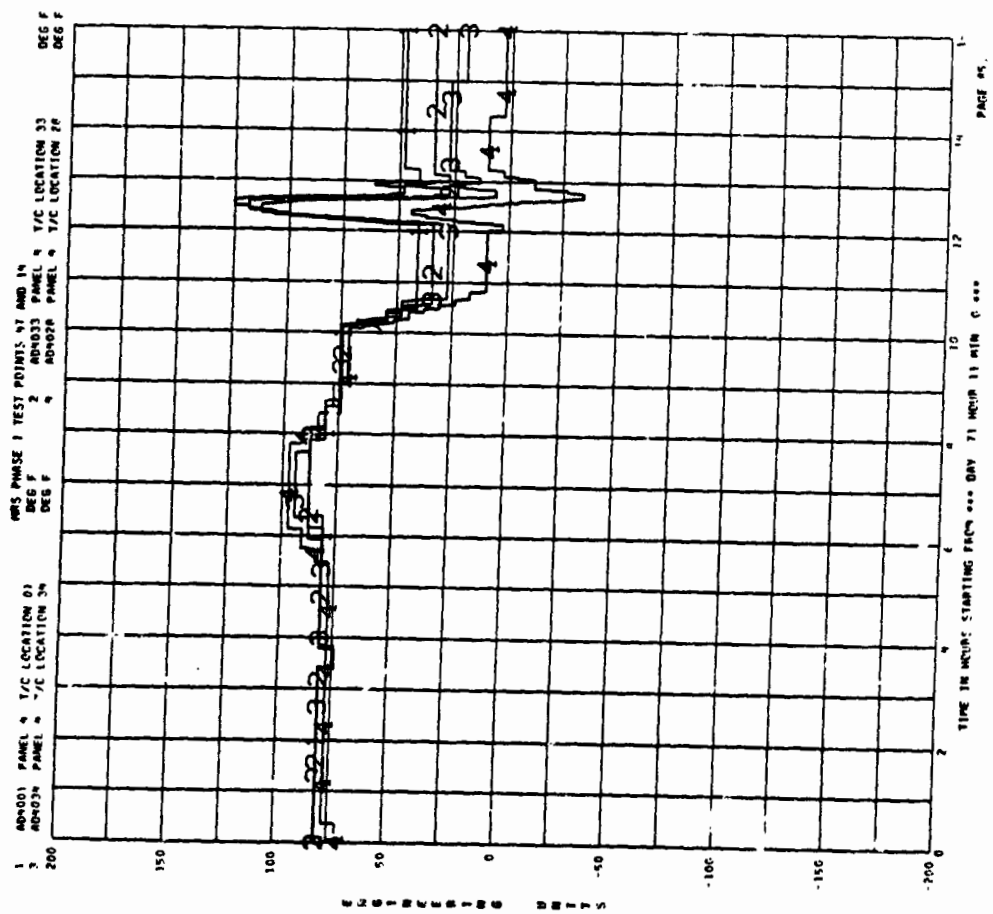
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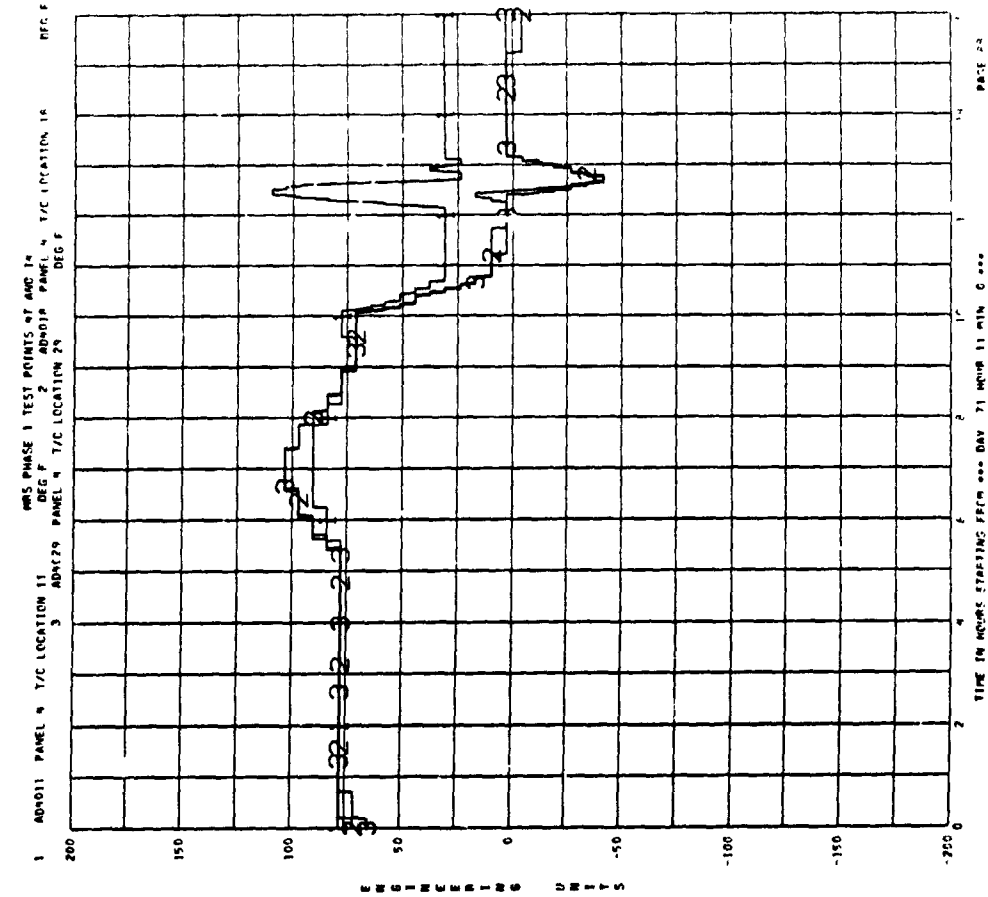
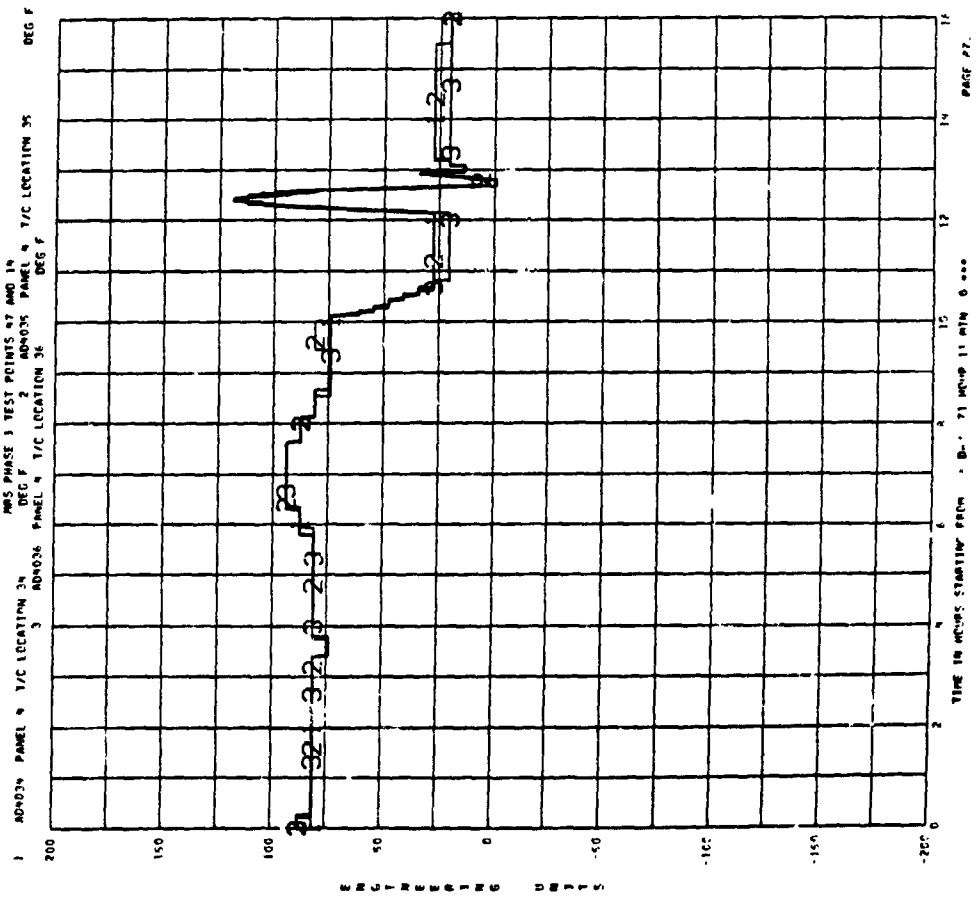


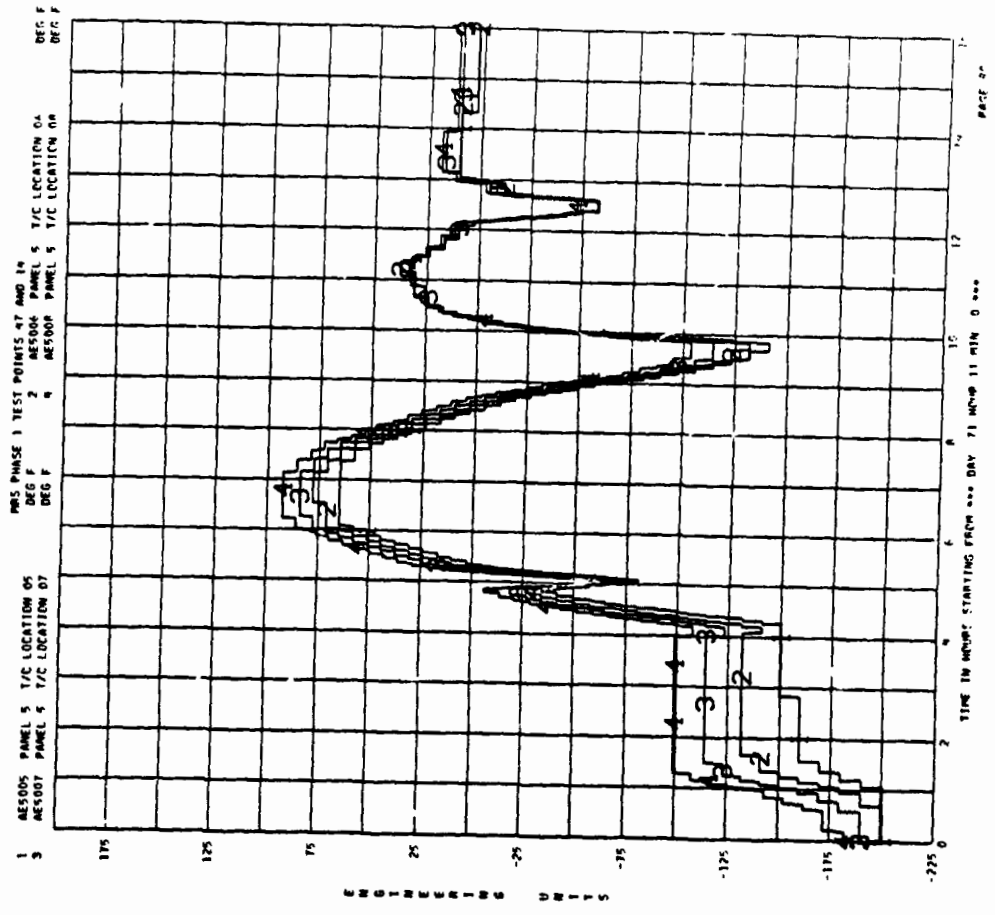
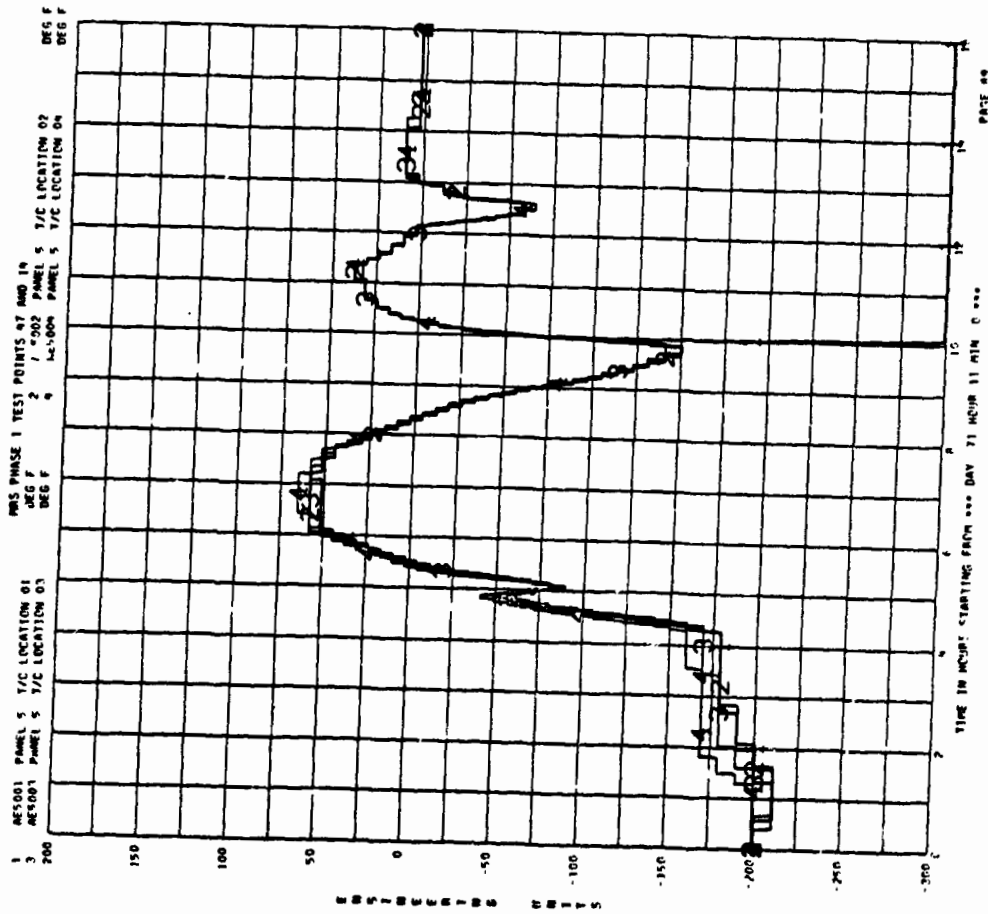


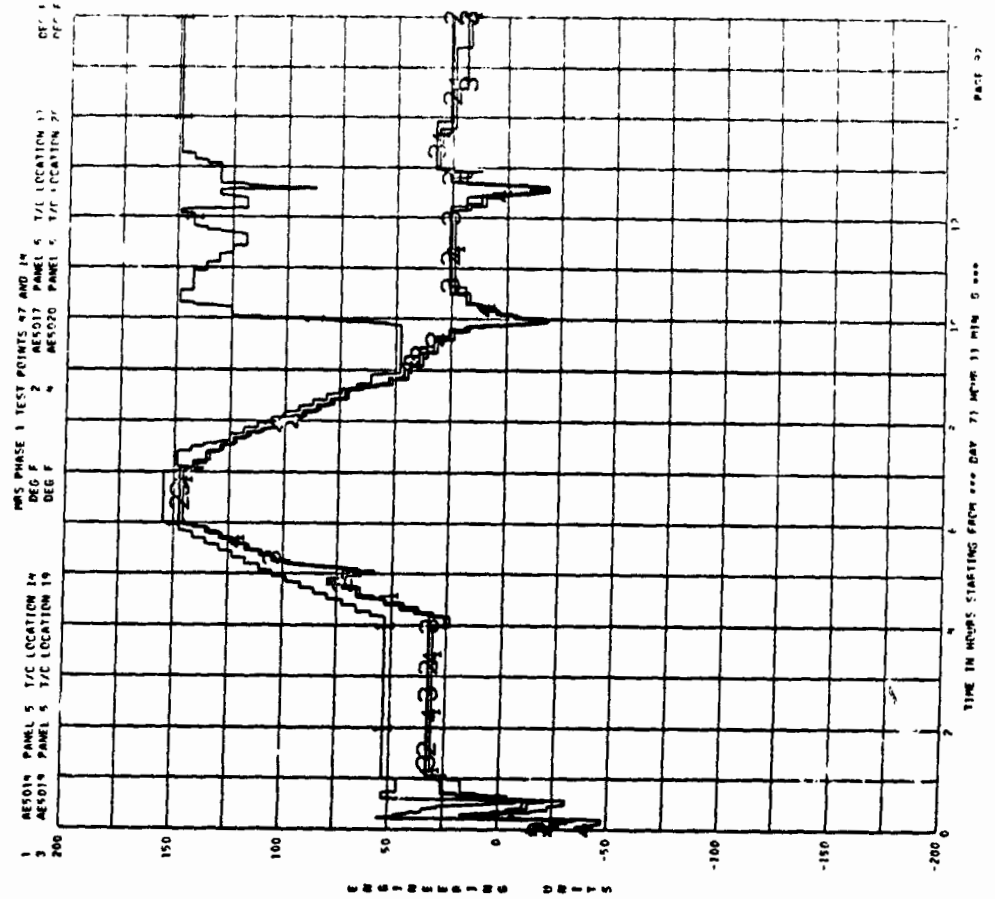
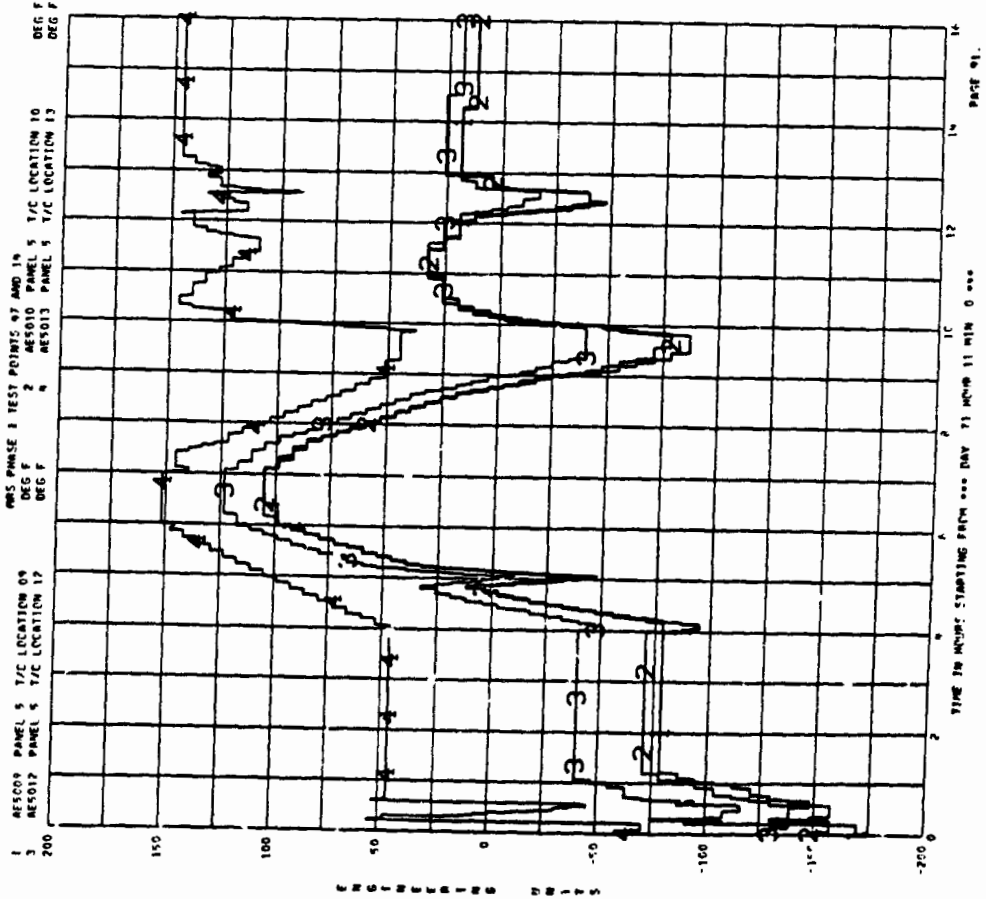


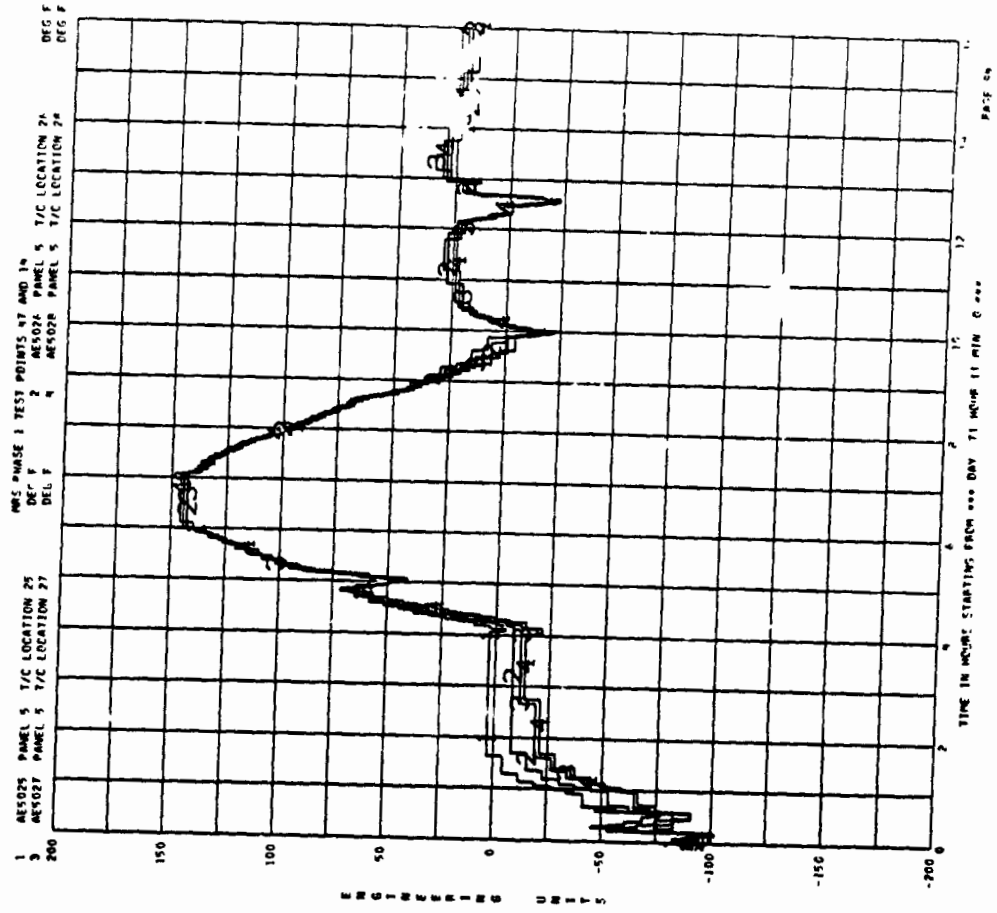
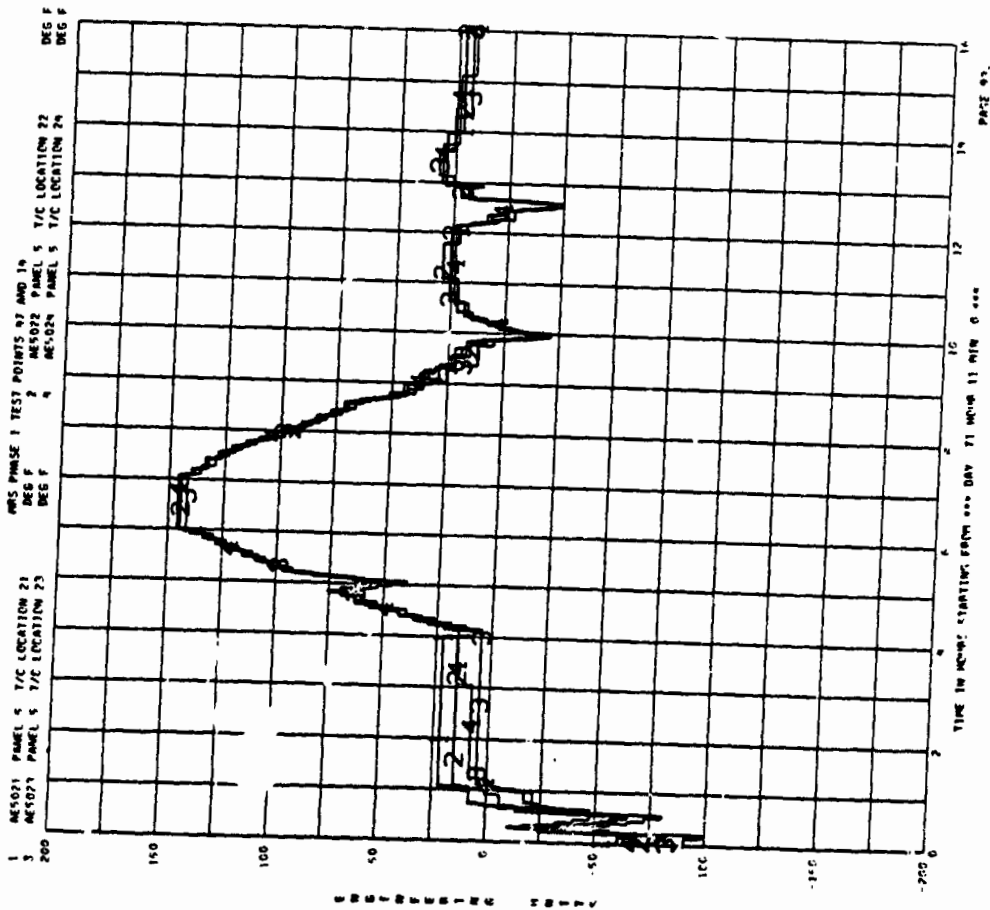




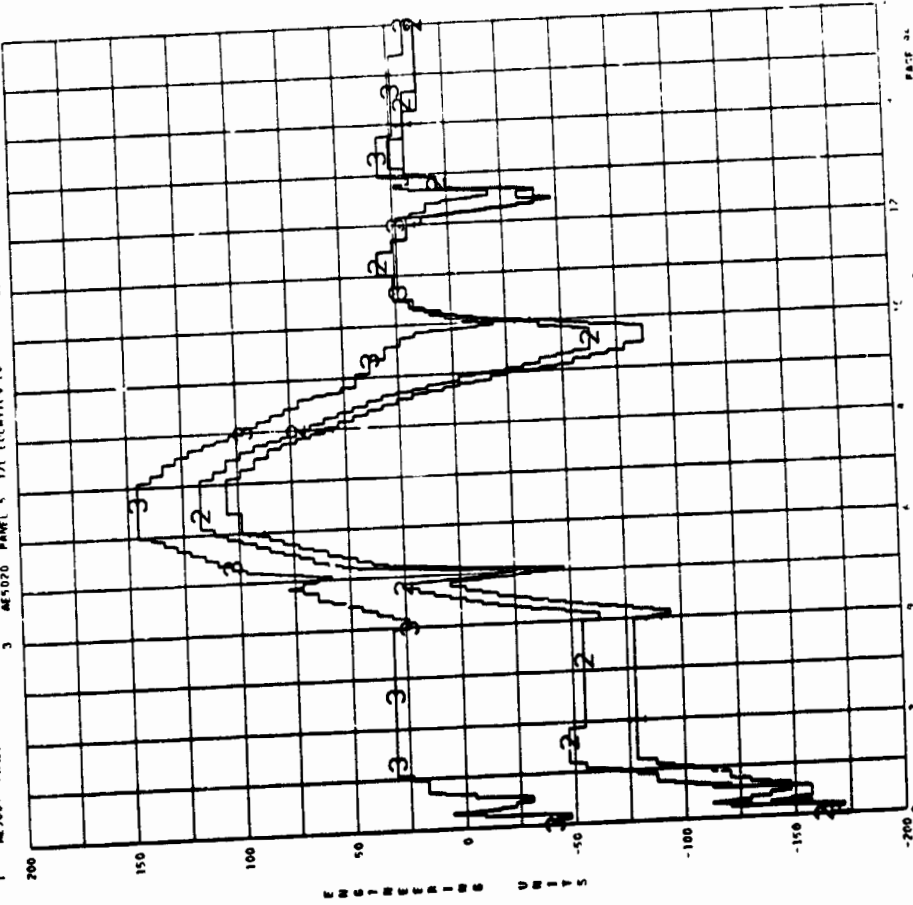






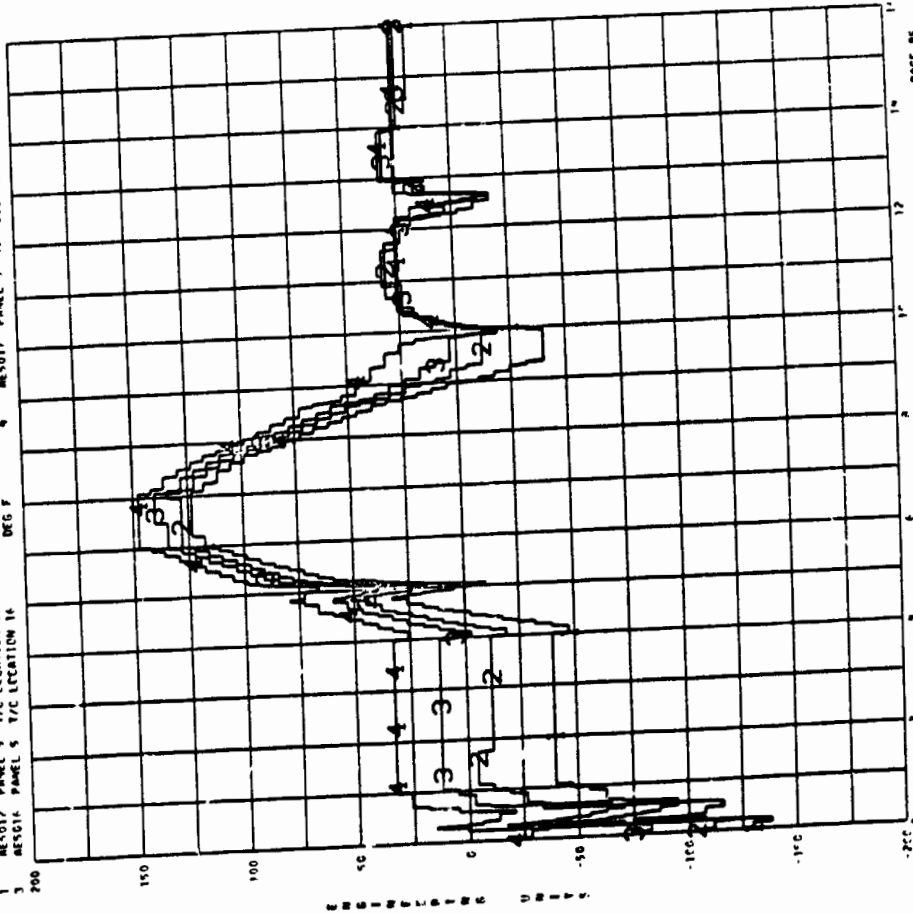


RMS PHASE 1 TEST POINTS AT AND IN
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 2 MES020 PANEL 5 T/C LOCATION 20 DEG F
 3 MES020 PANEL 5 T/C LOCATION 20 DEG F

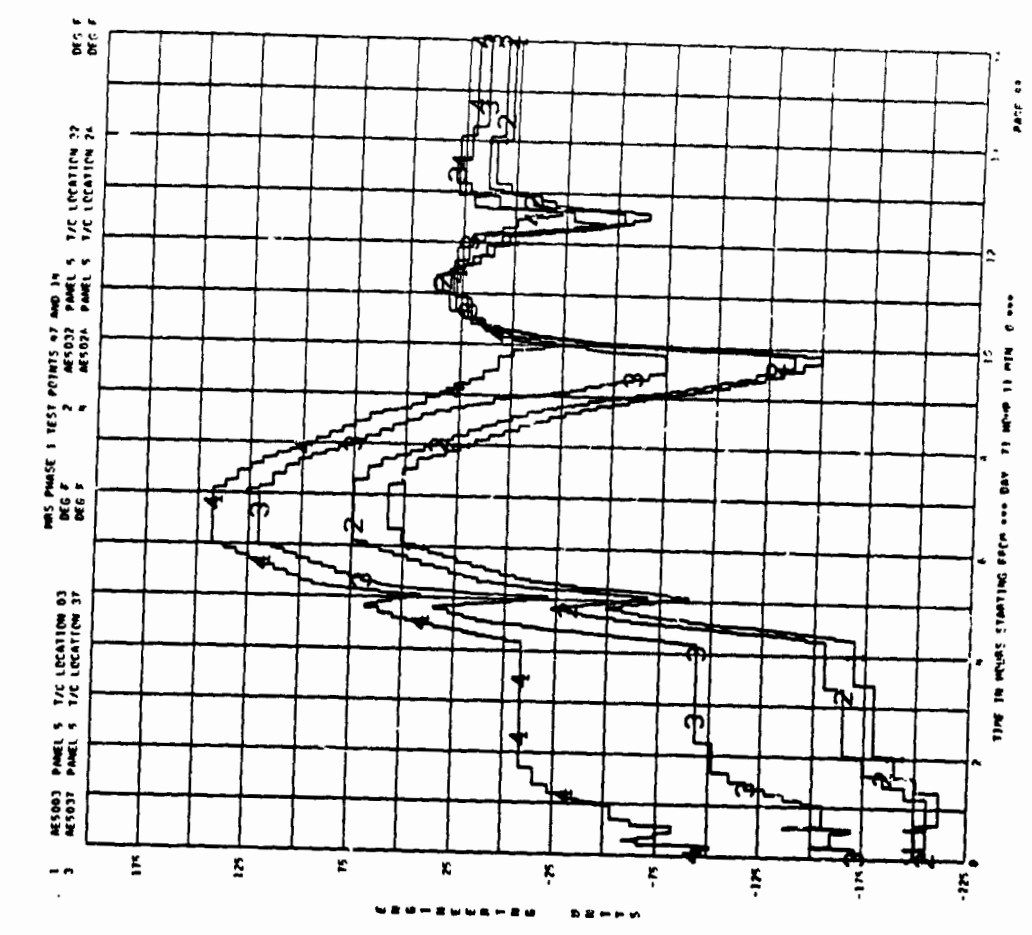
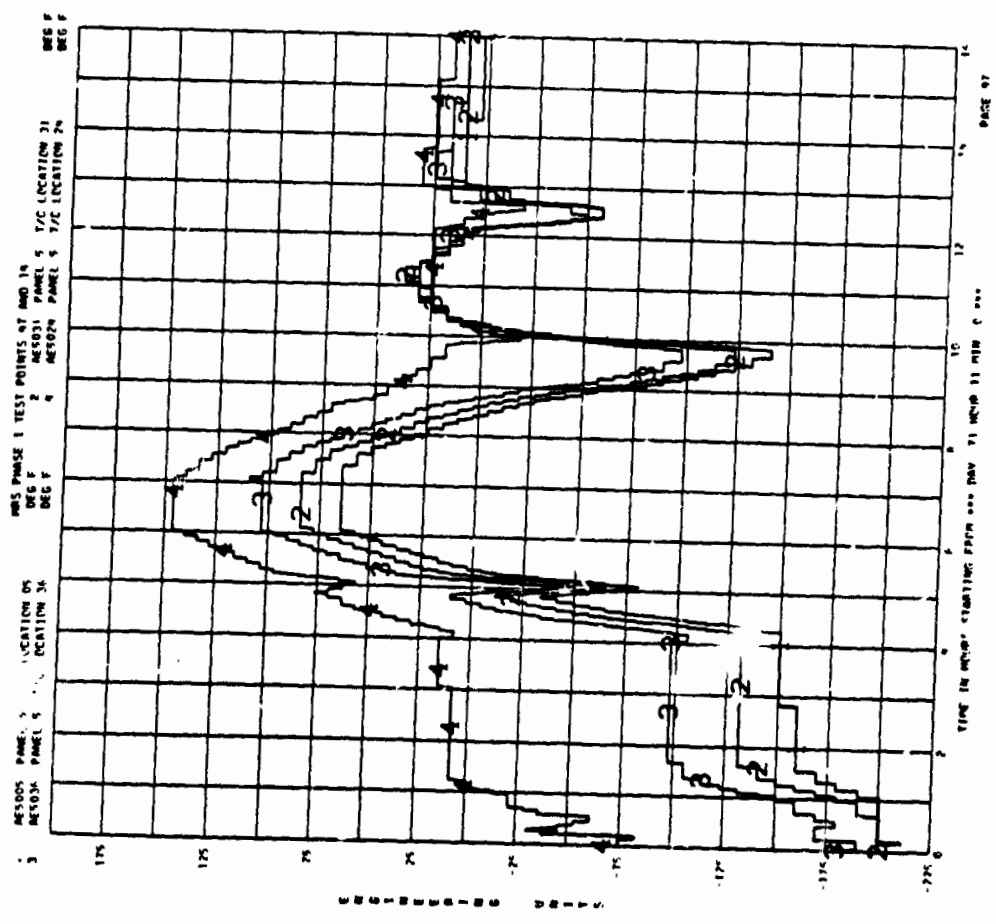


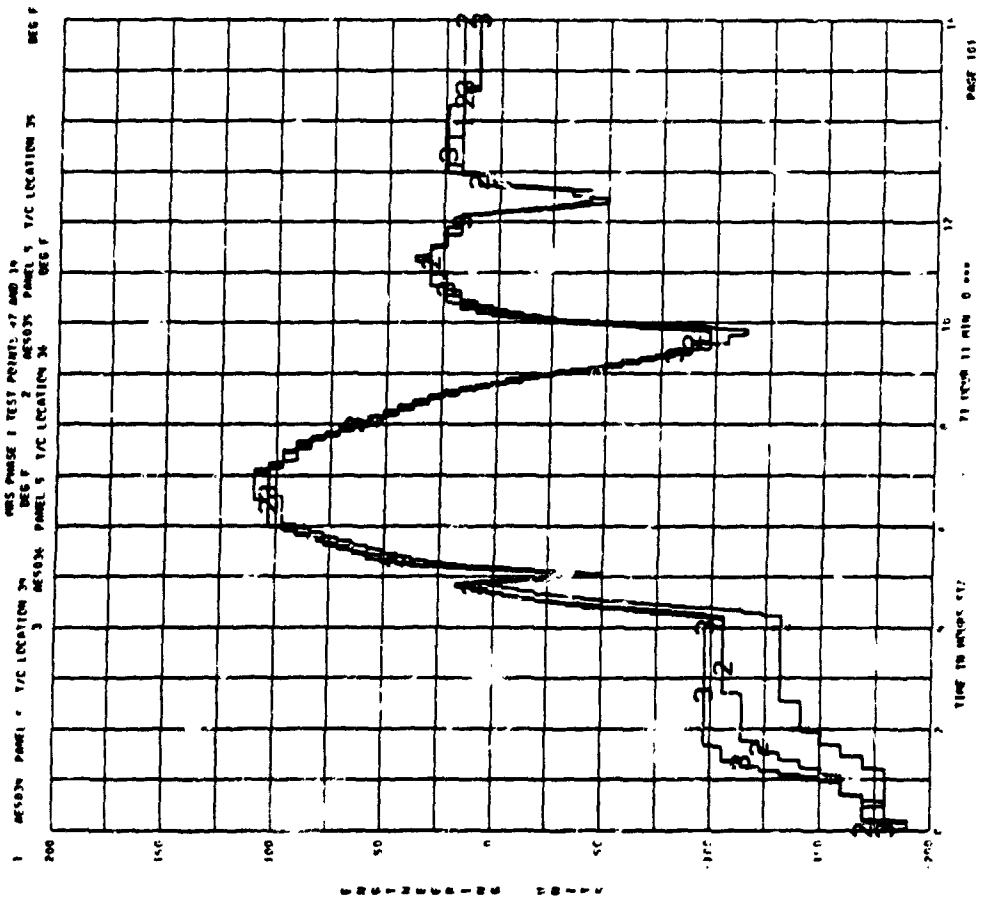
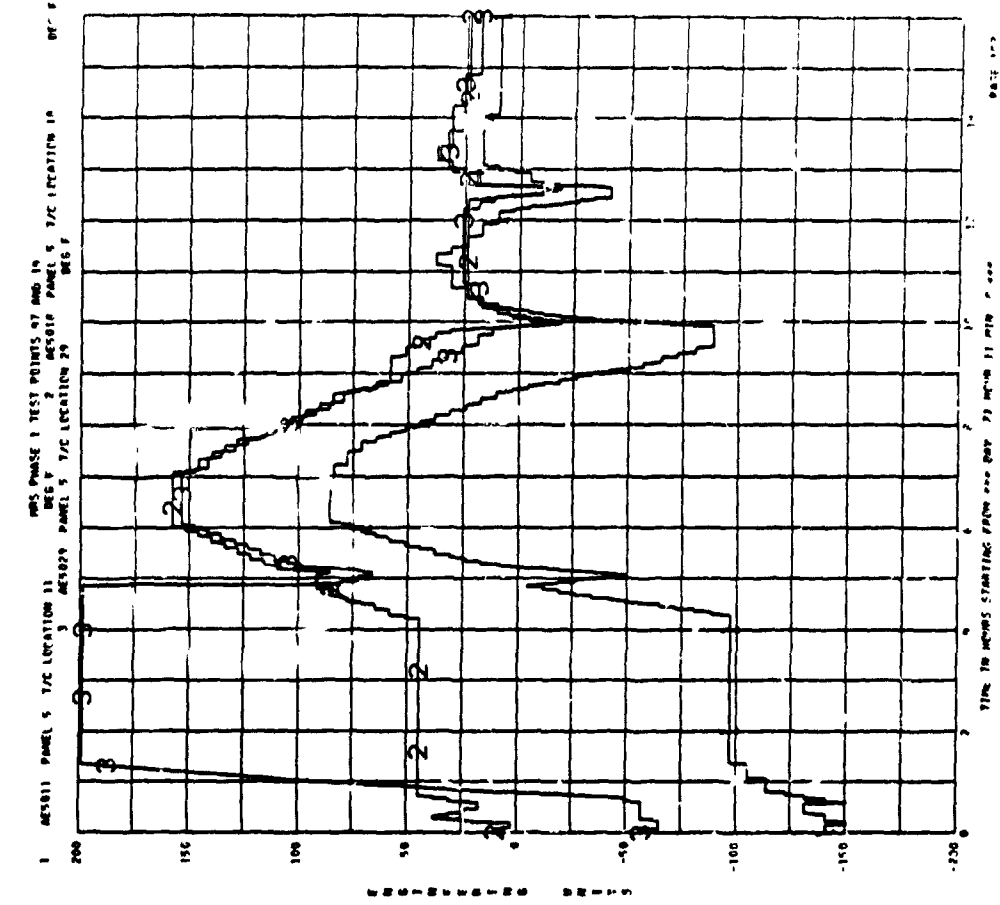
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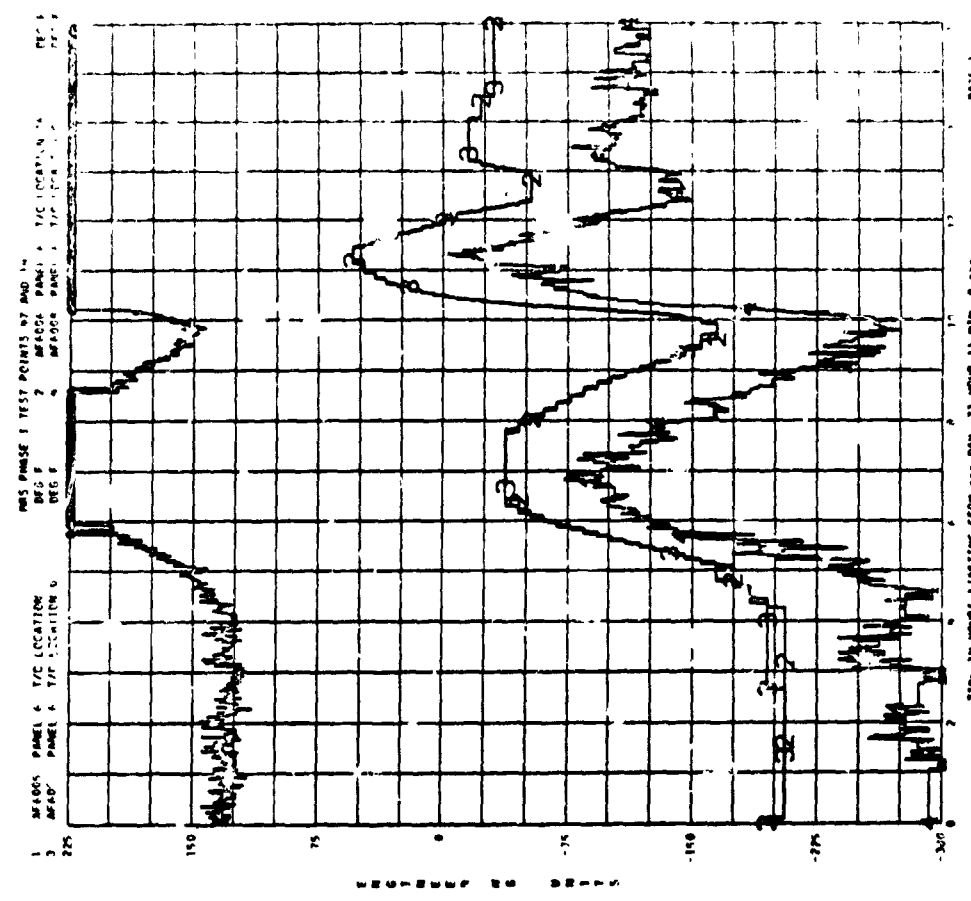
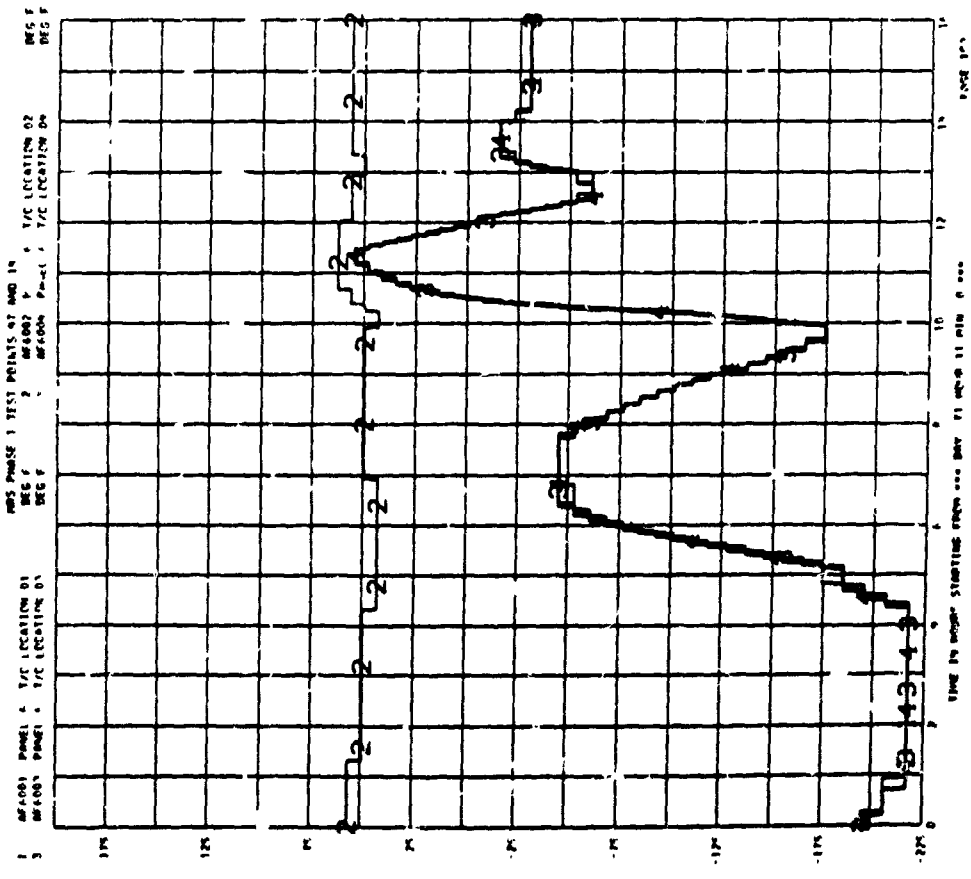
RMS PHASE 1 TEST POINTS AT AND IN
 DEG F 1 MES017 PANEL 5 T/C LOCATION 12 DEG F
 2 MES015 PANEL 5 T/C LOCATION 15 DEG F
 3 MES017 PANEL 5 T/C LOCATION 17 DEG F



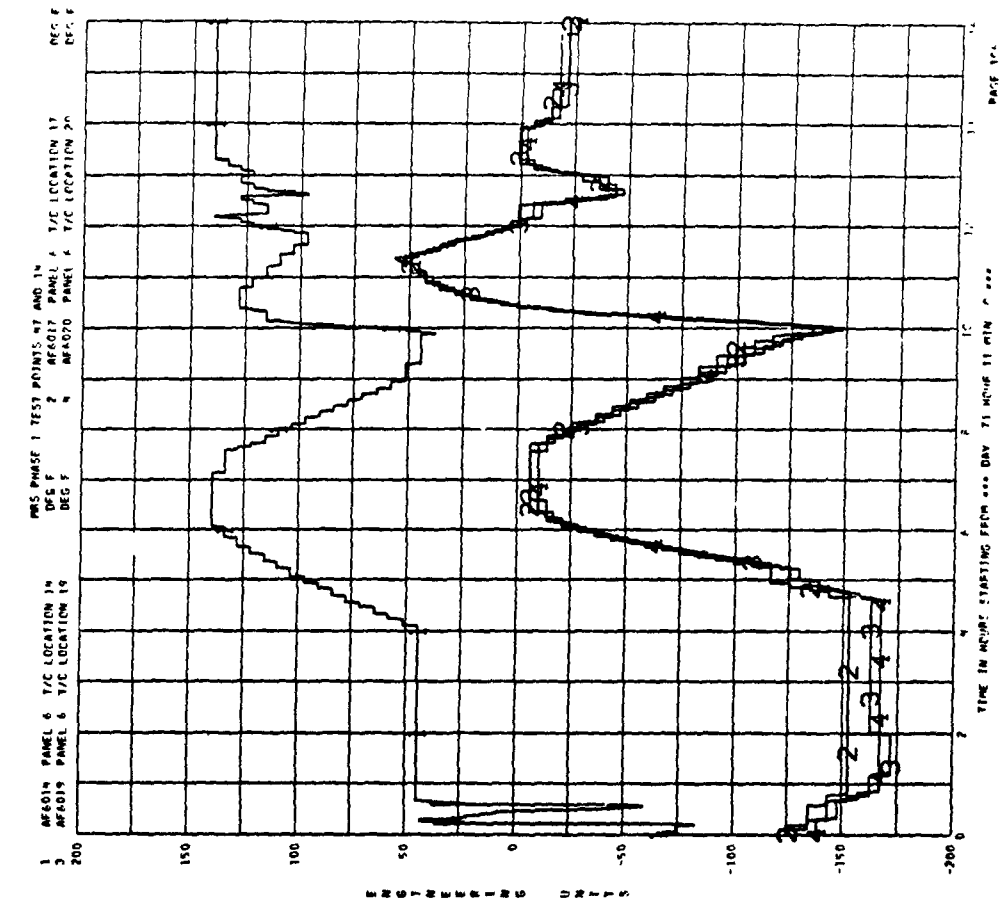
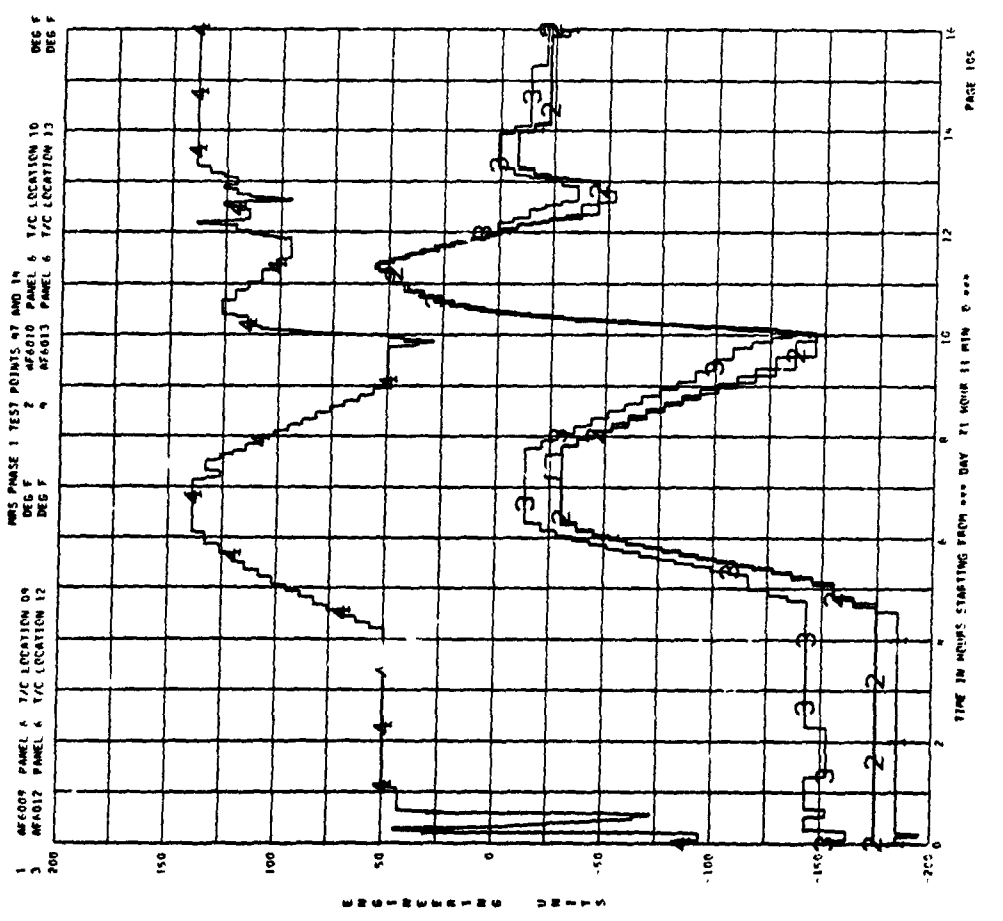
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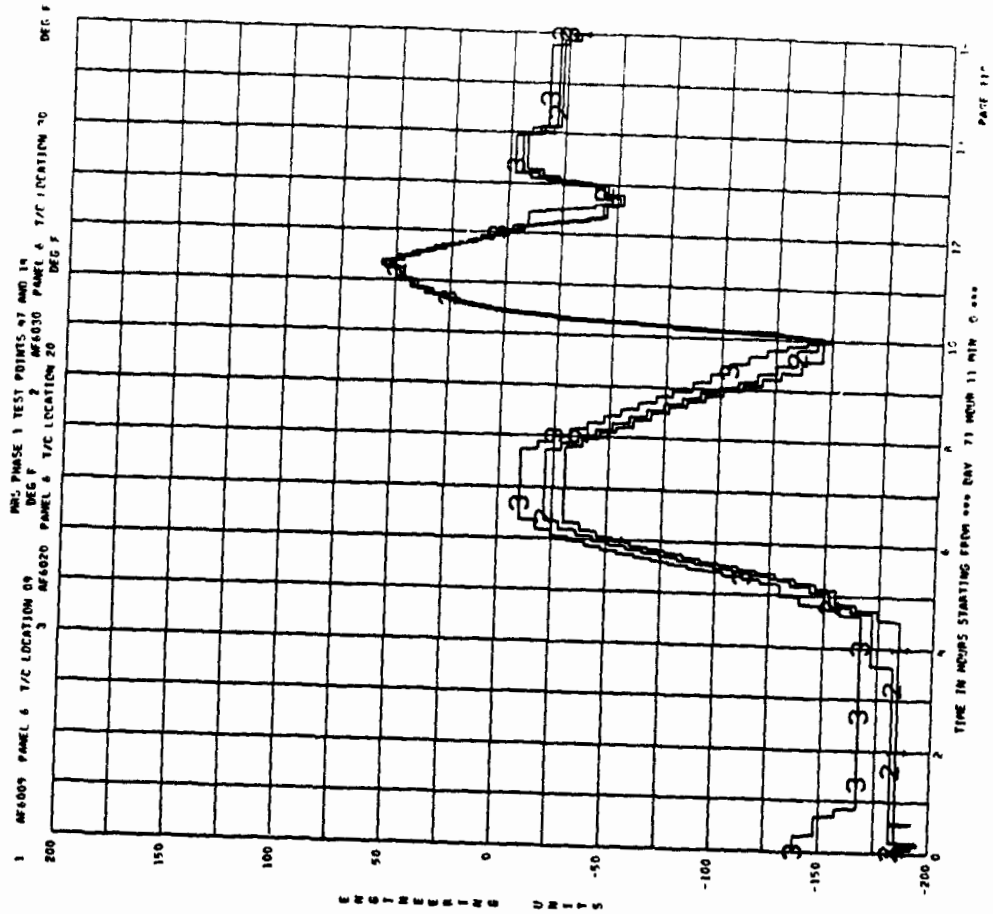
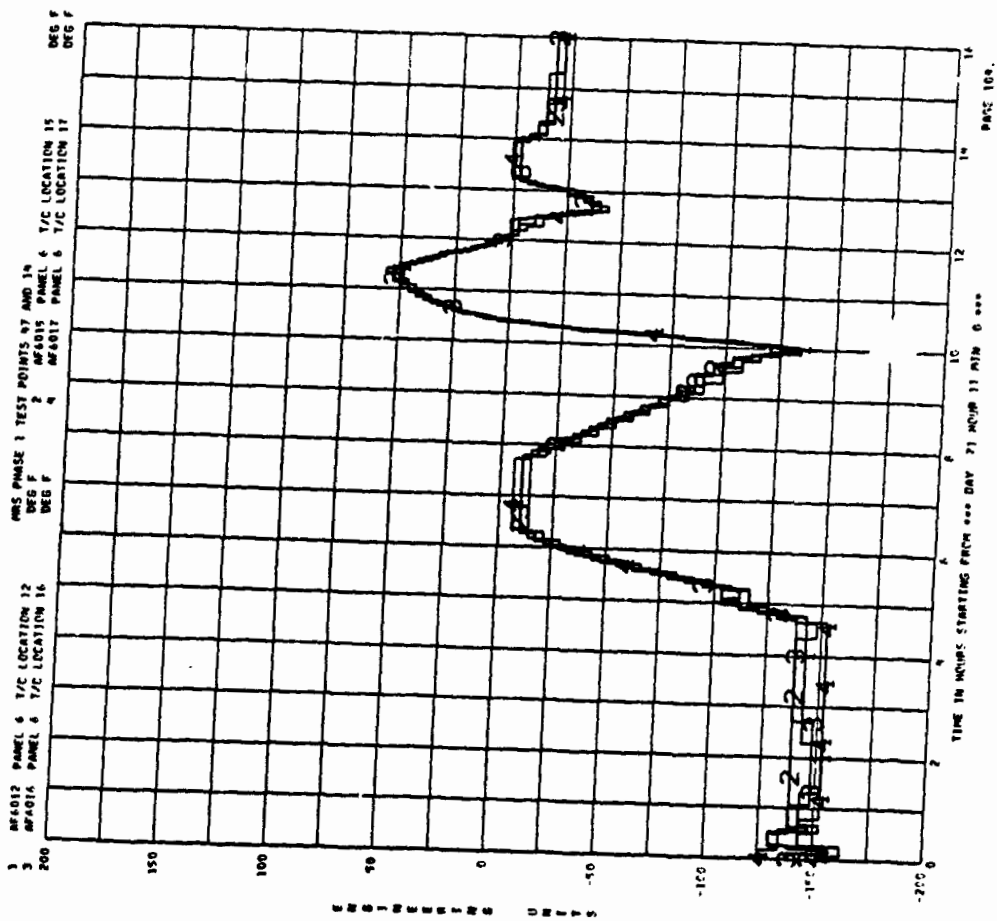


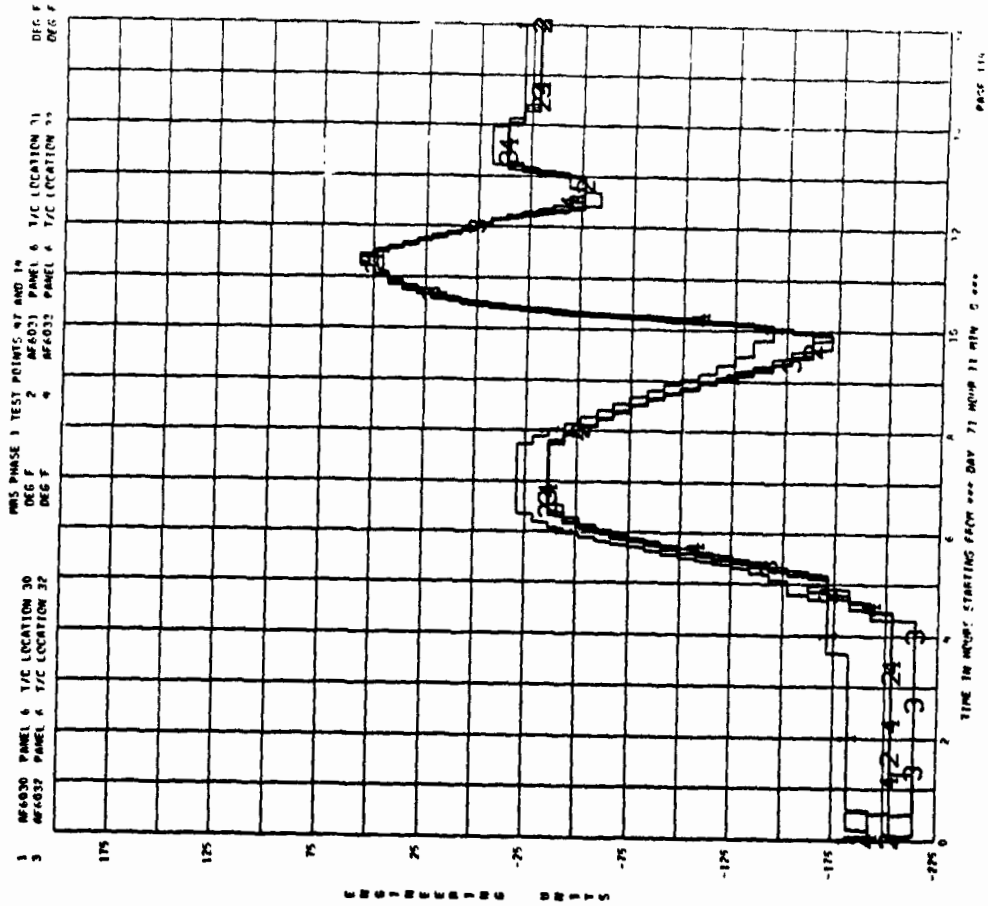
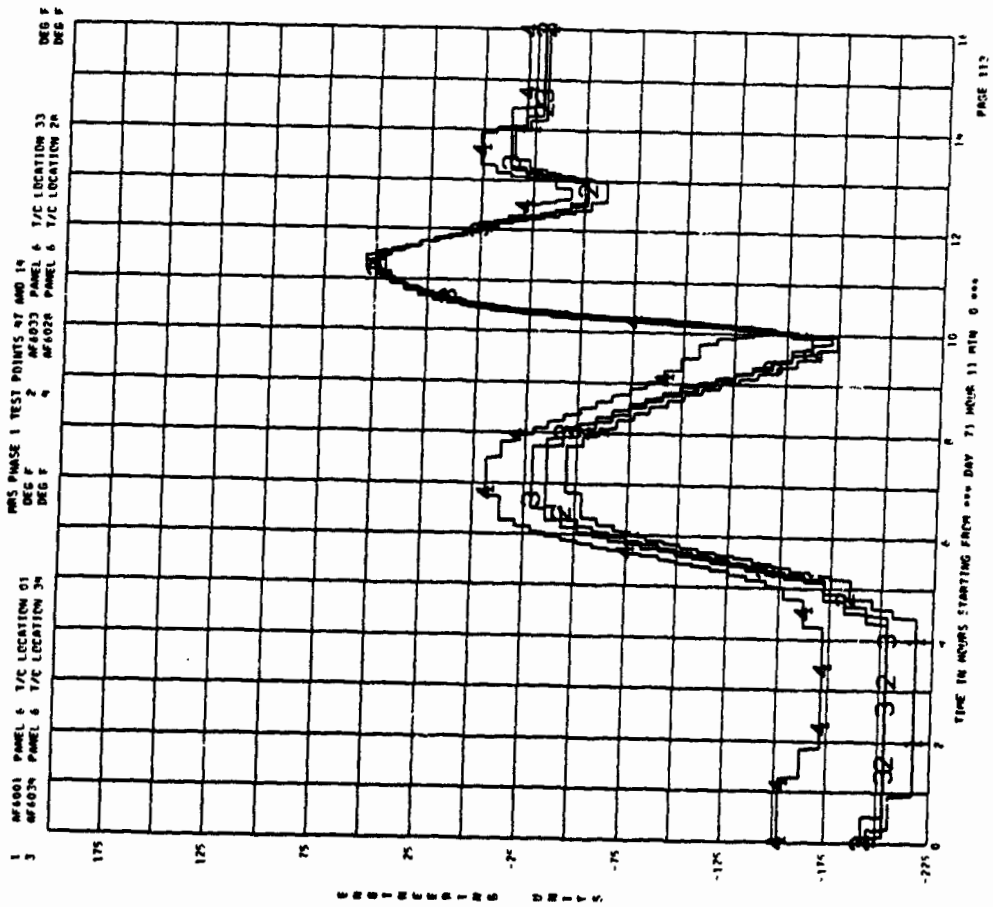


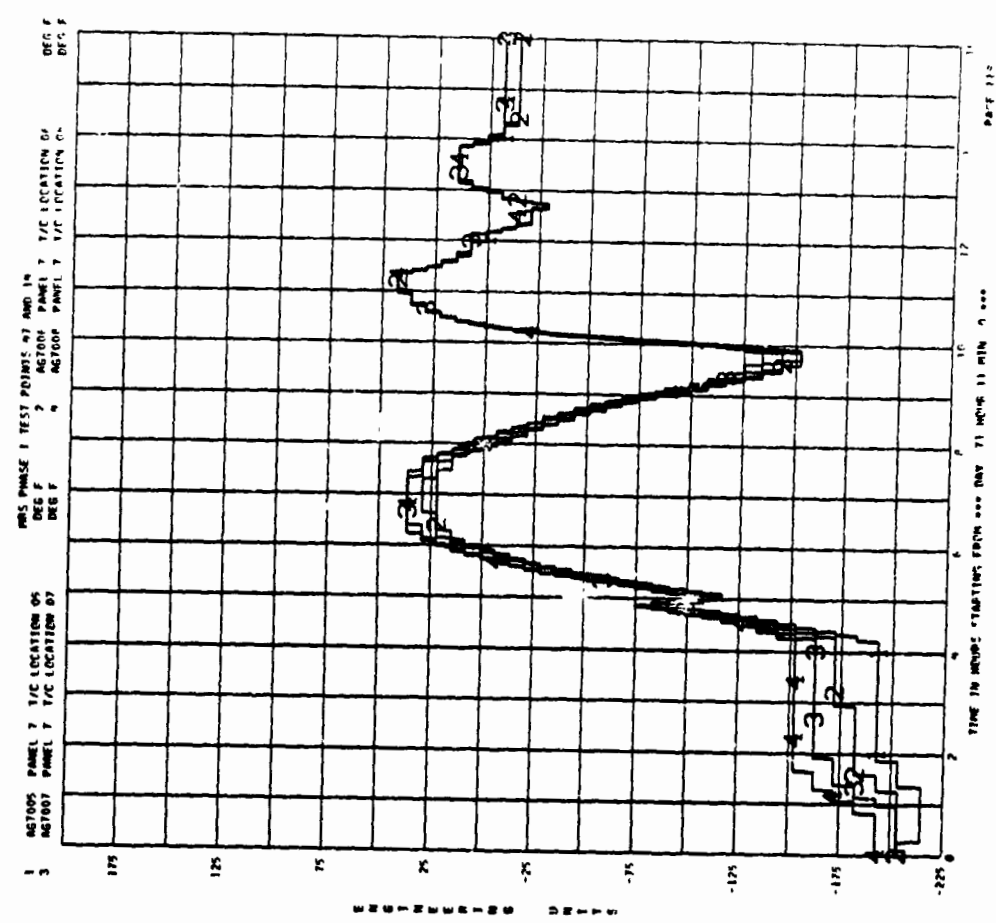
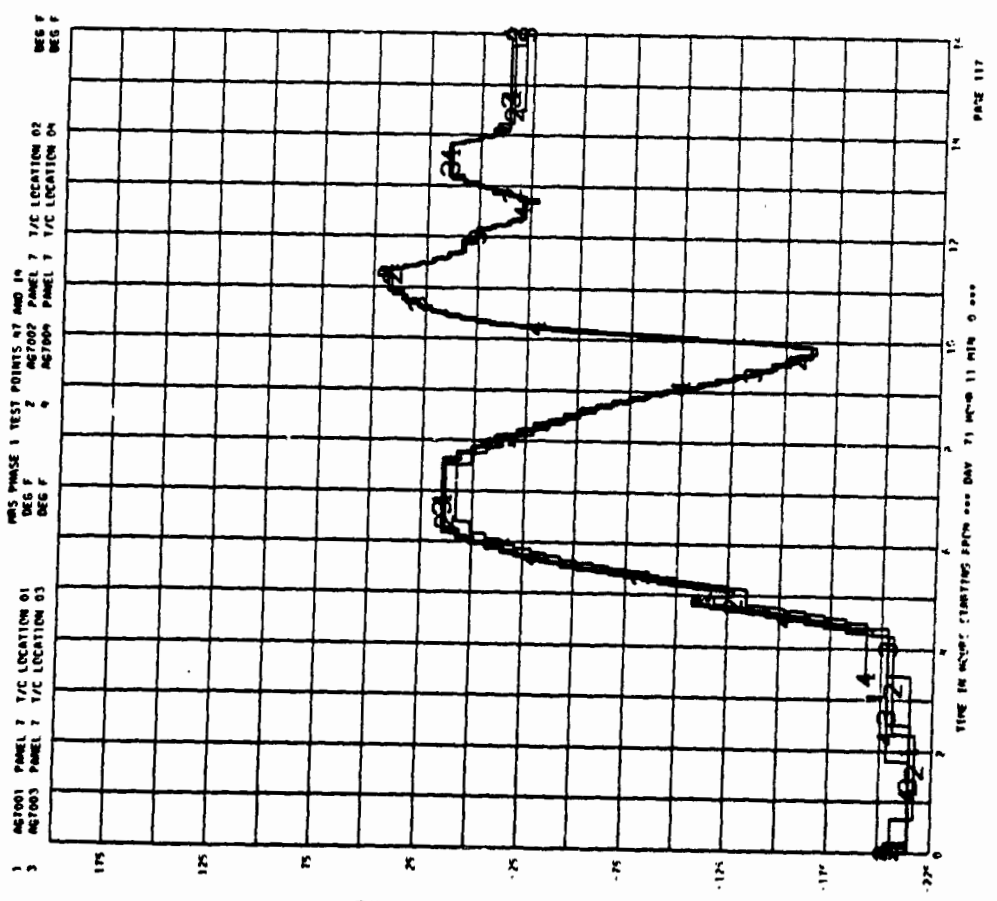


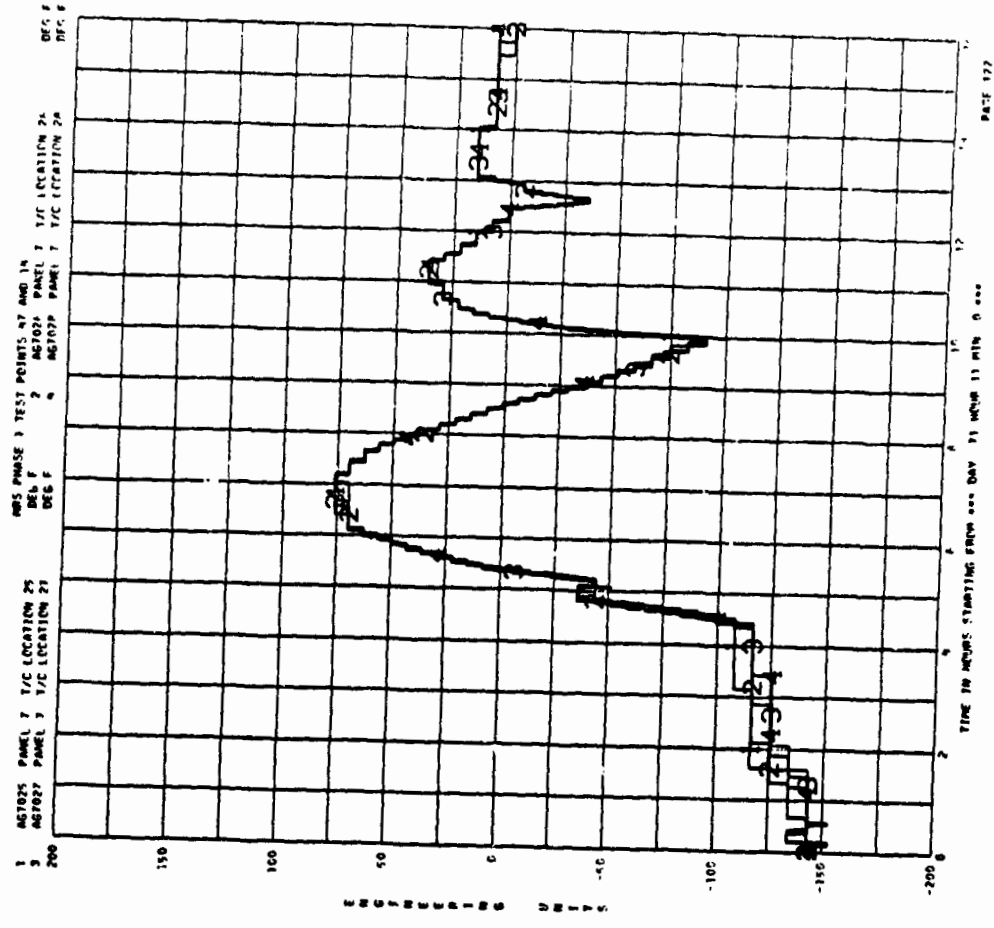
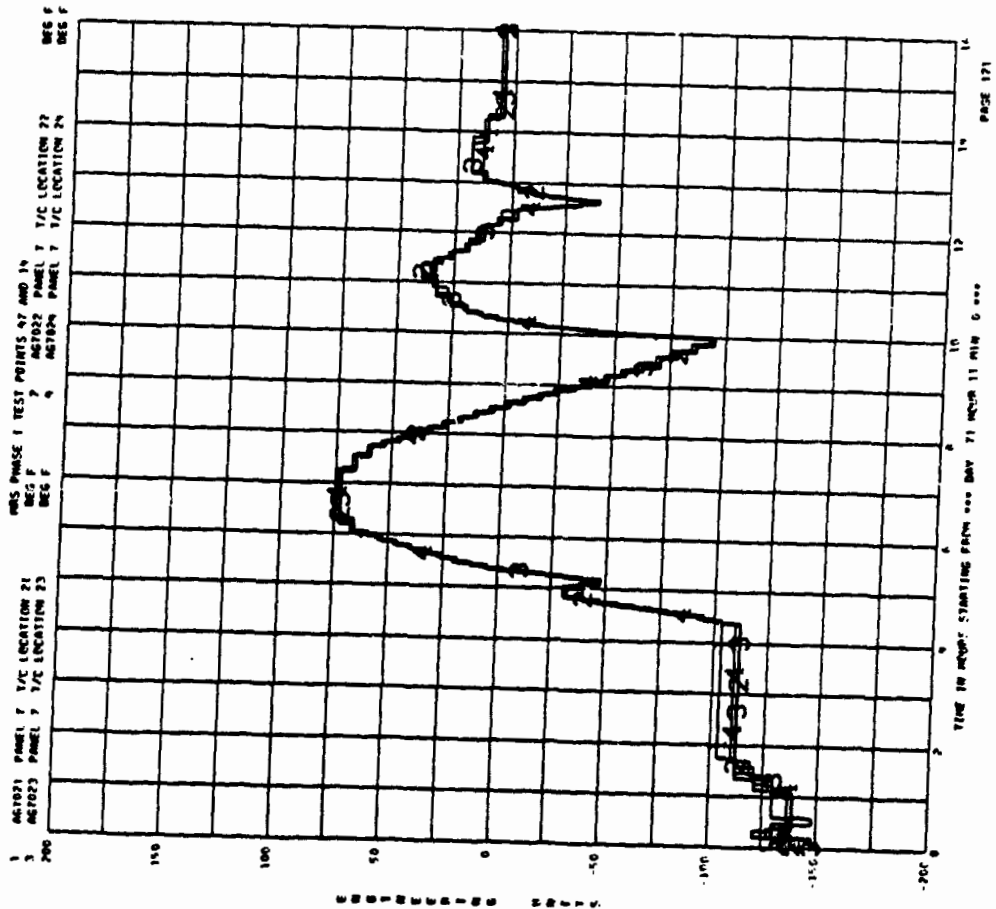
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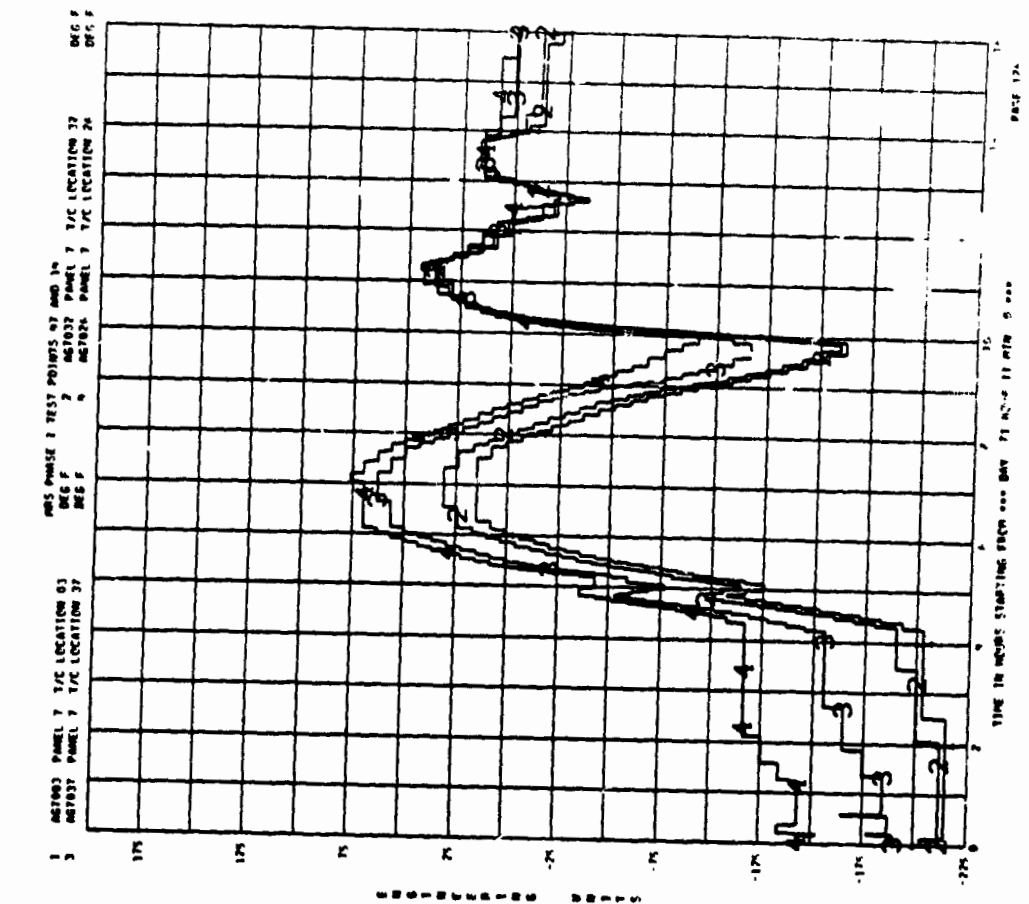
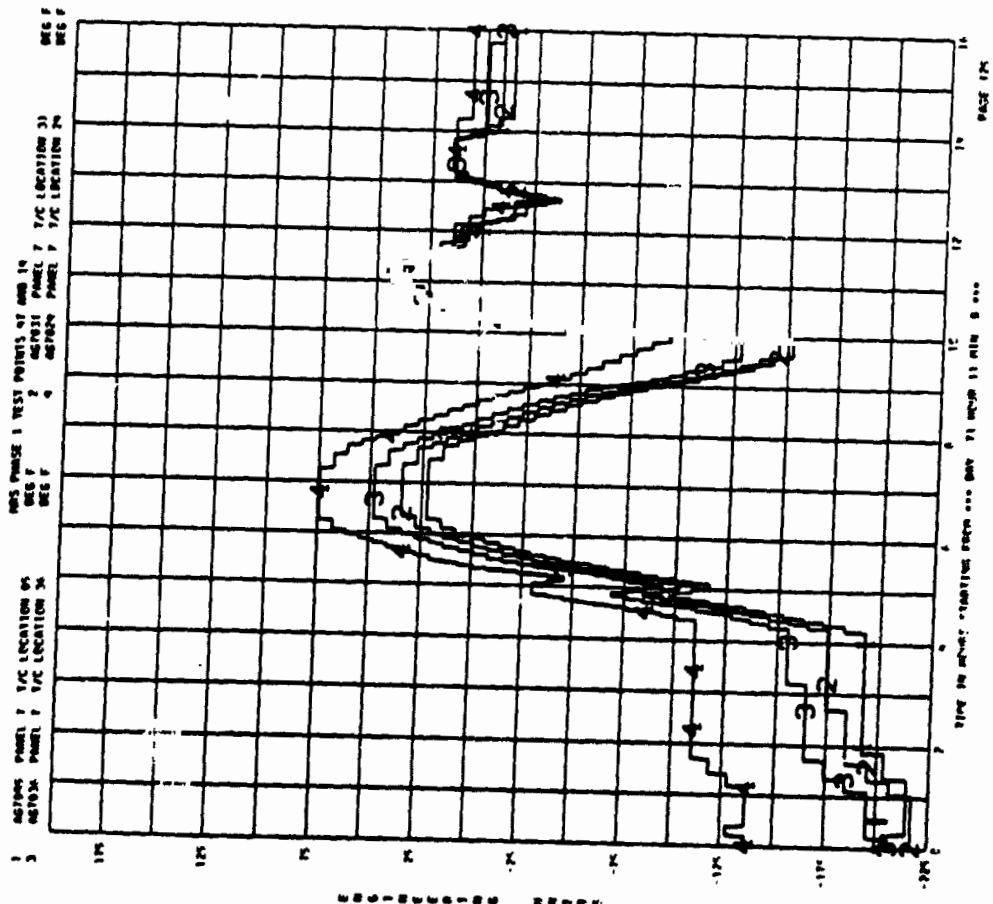


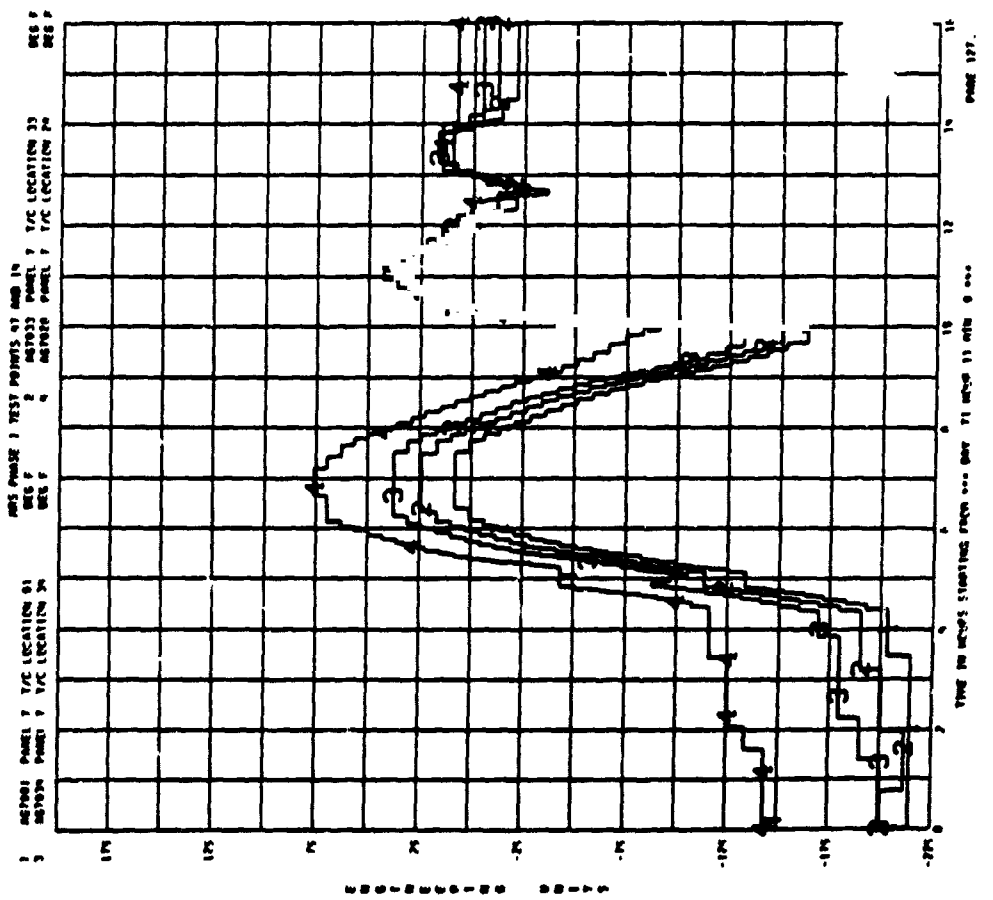
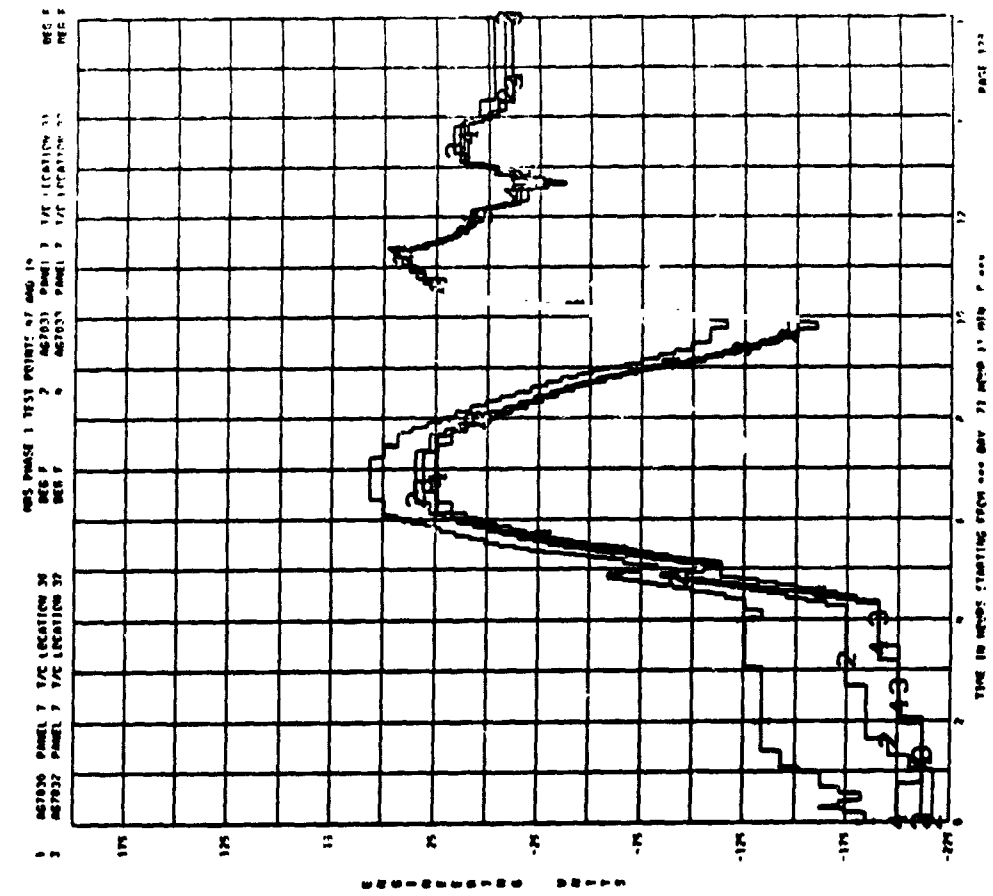


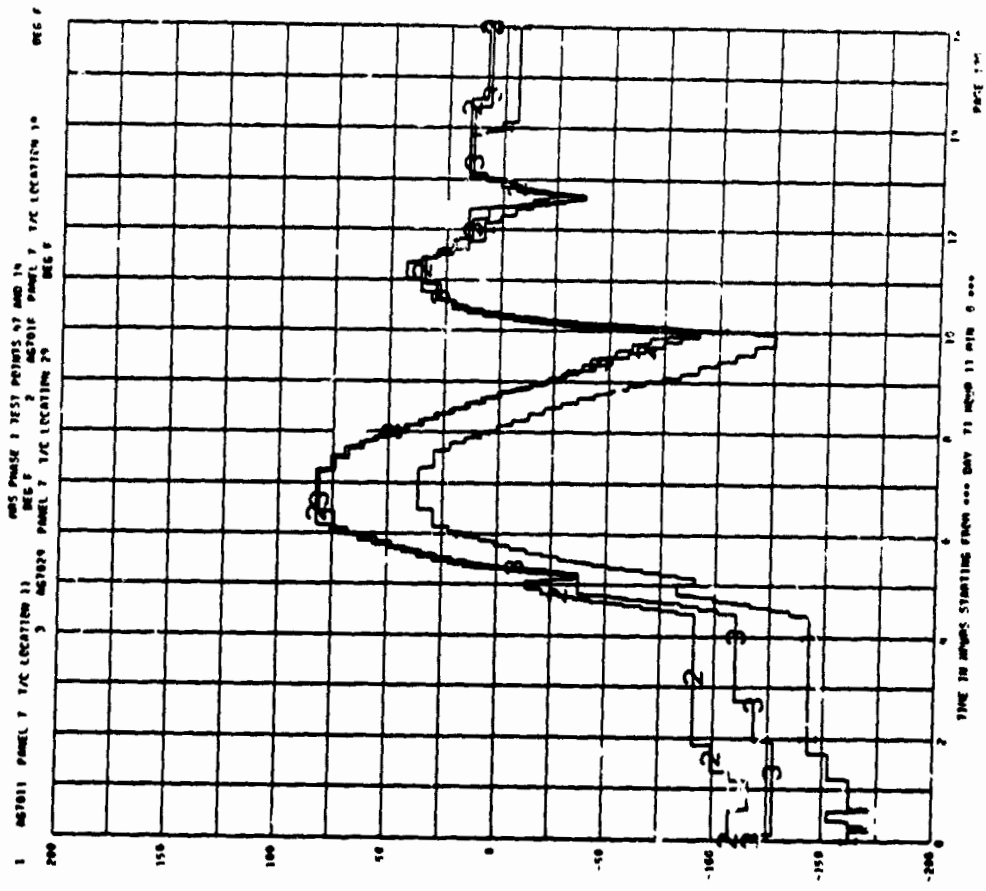
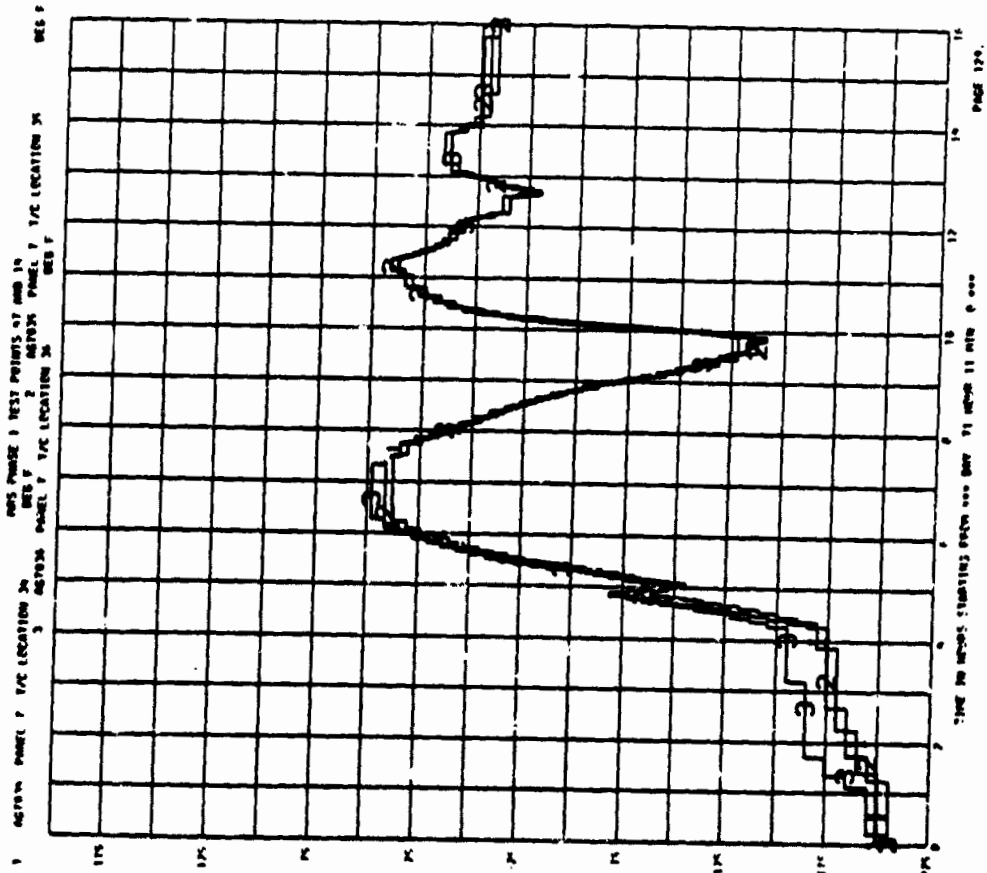


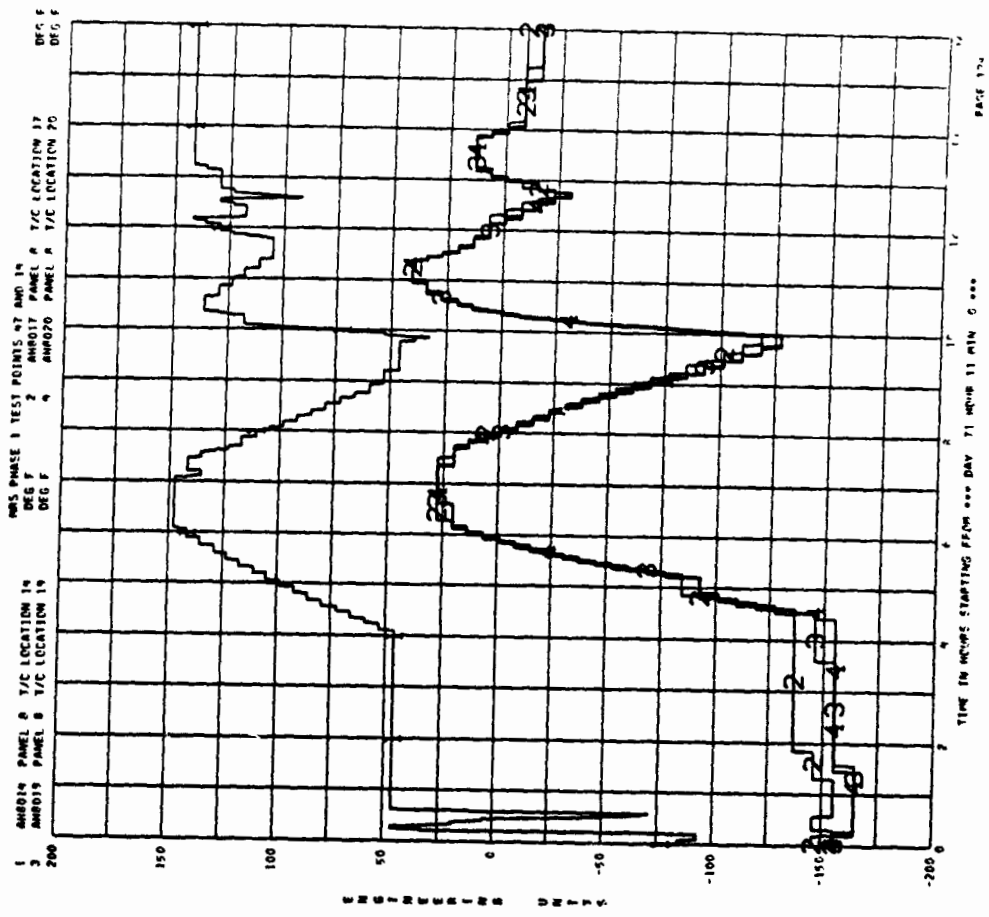
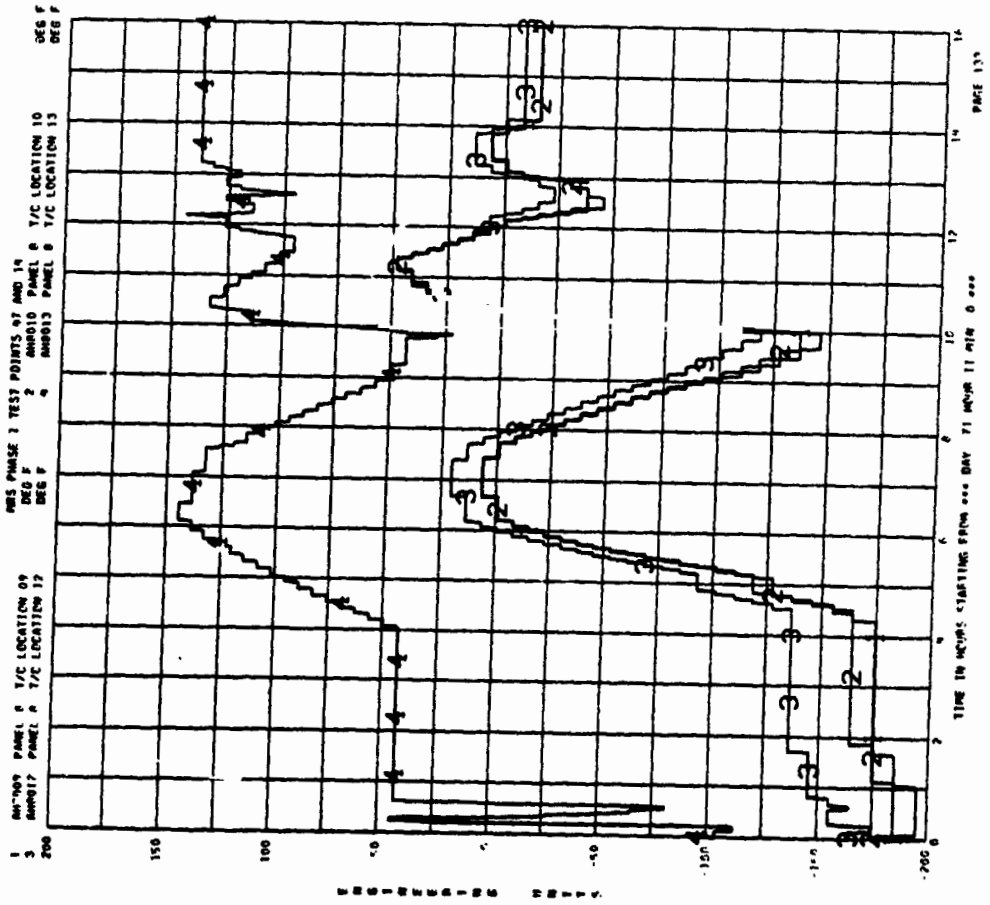


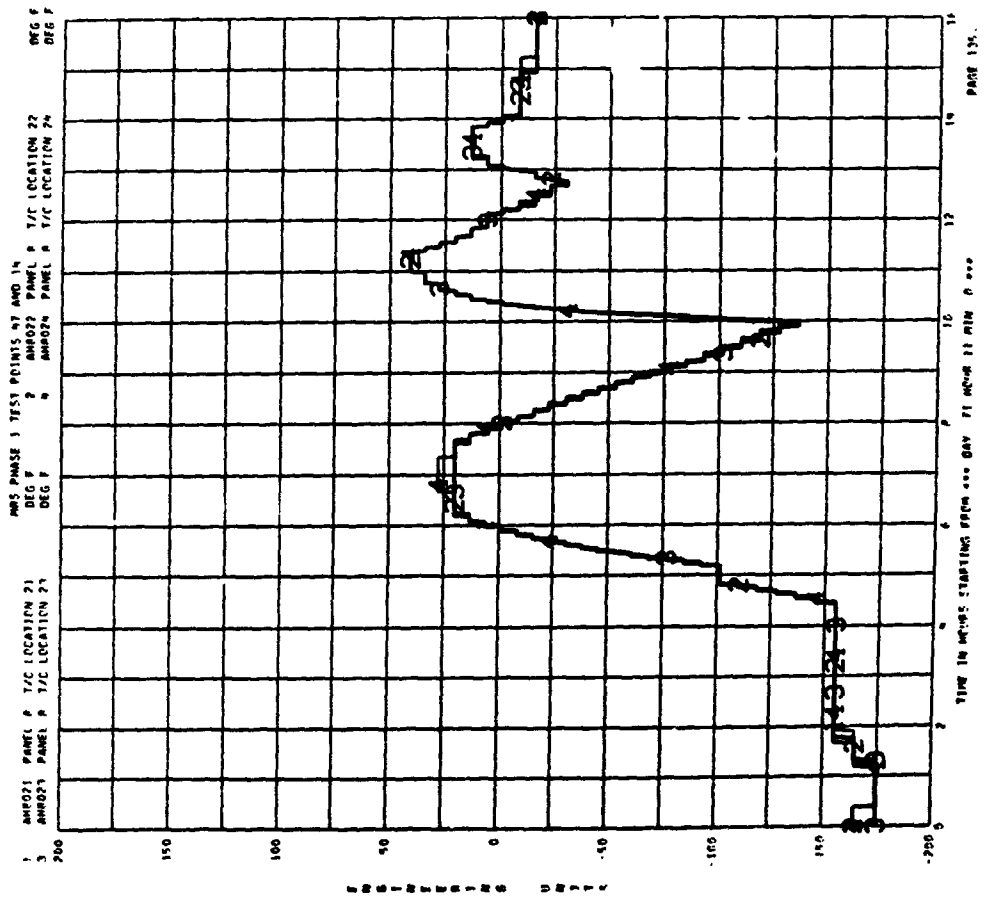
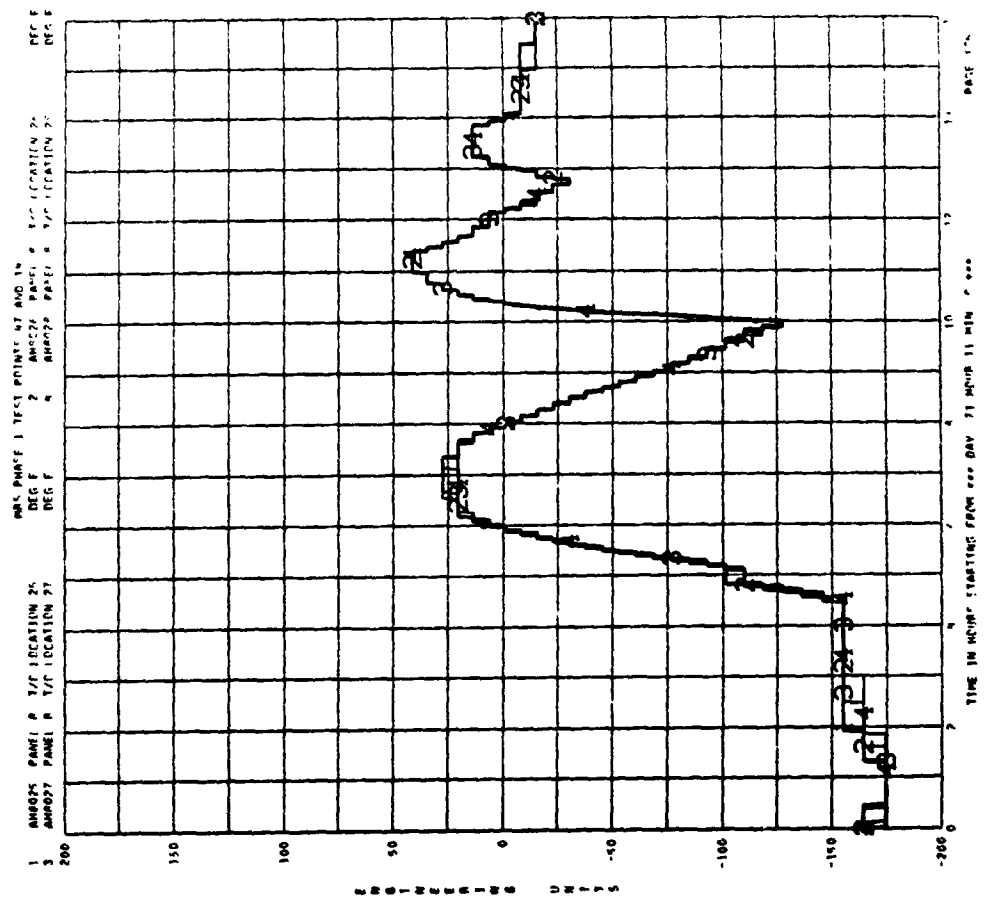


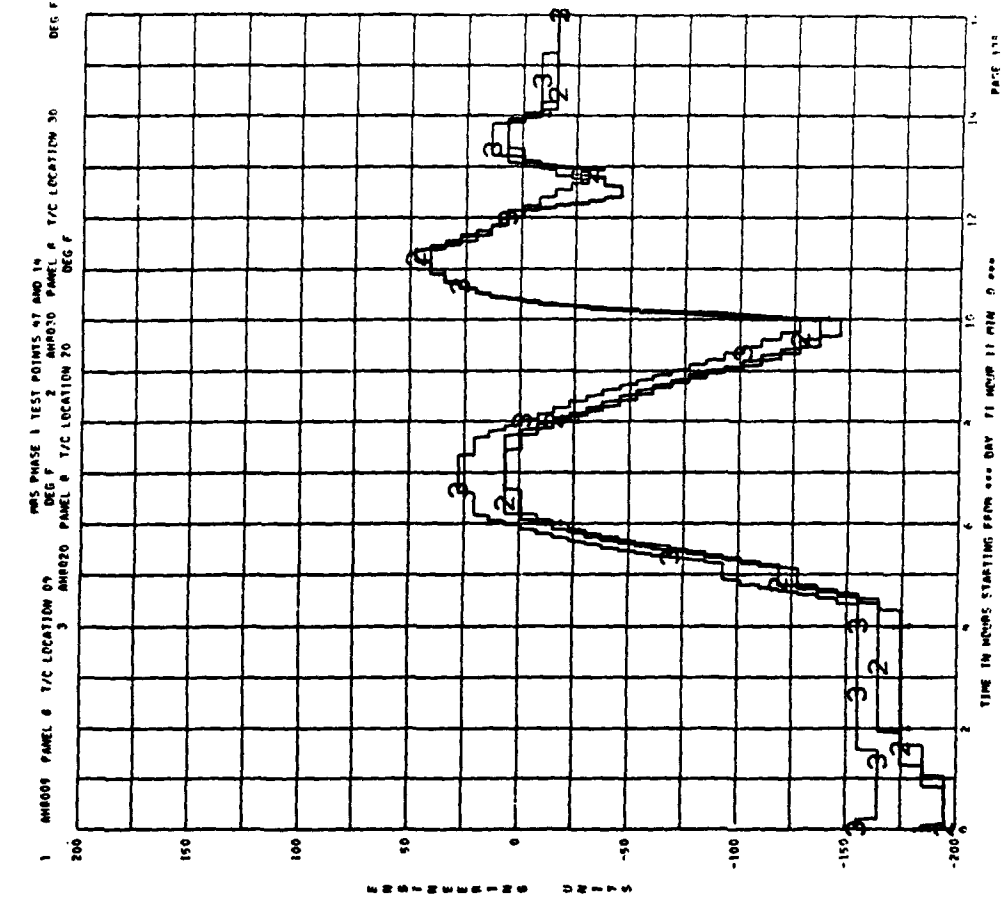
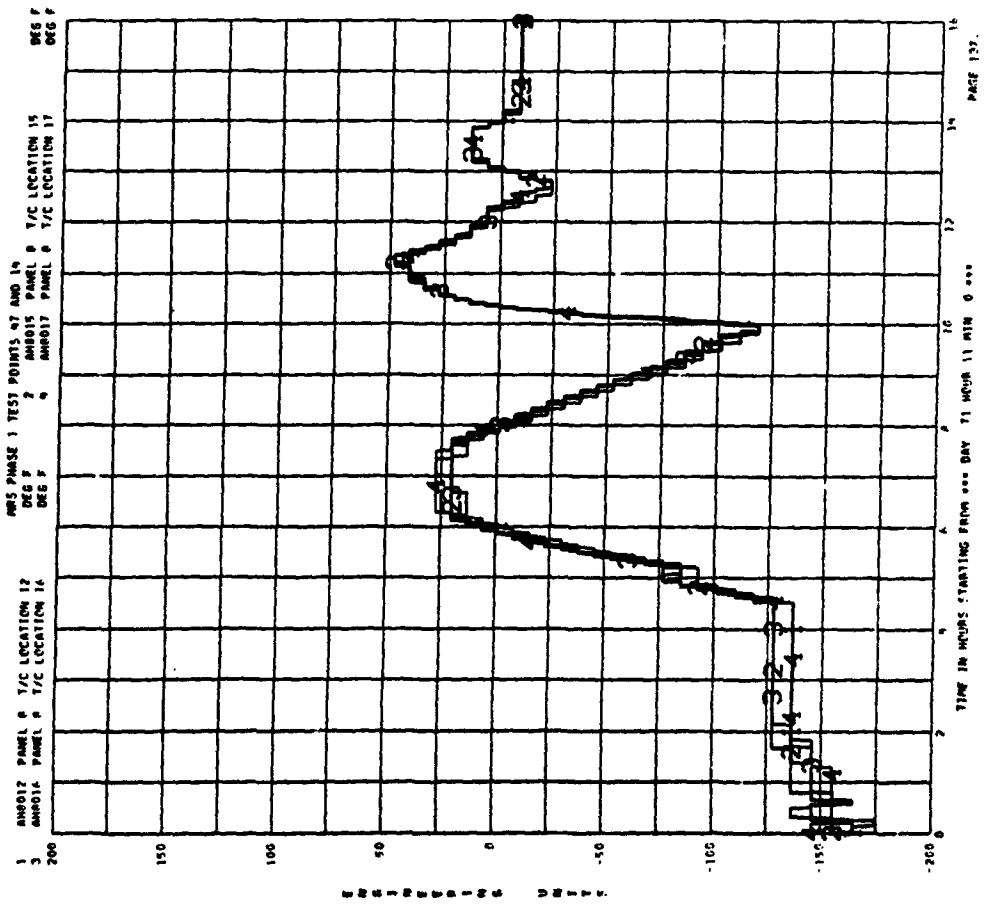


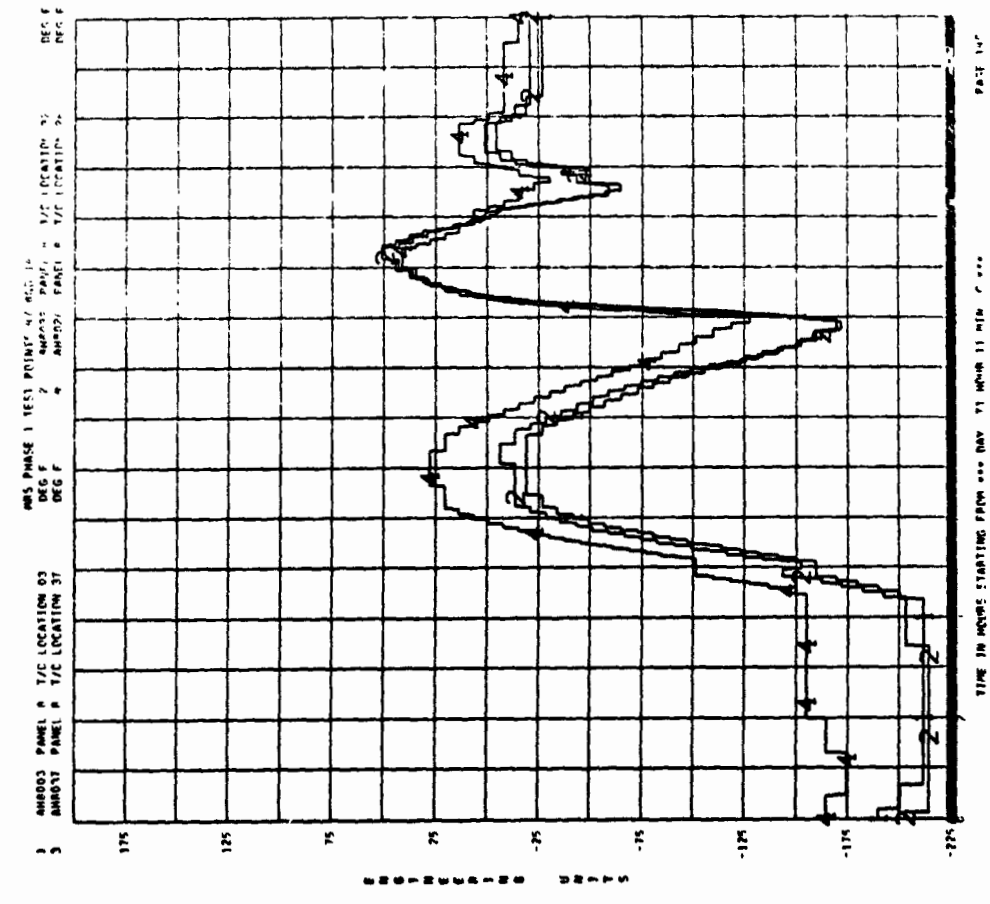
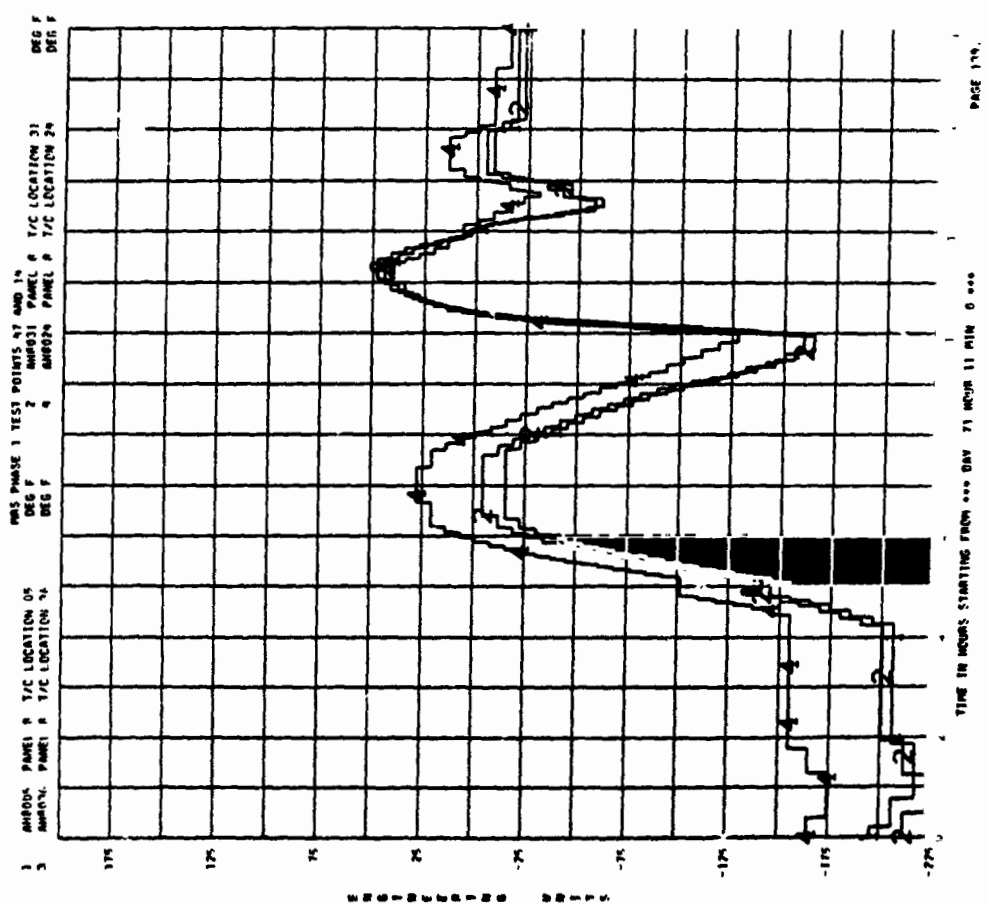


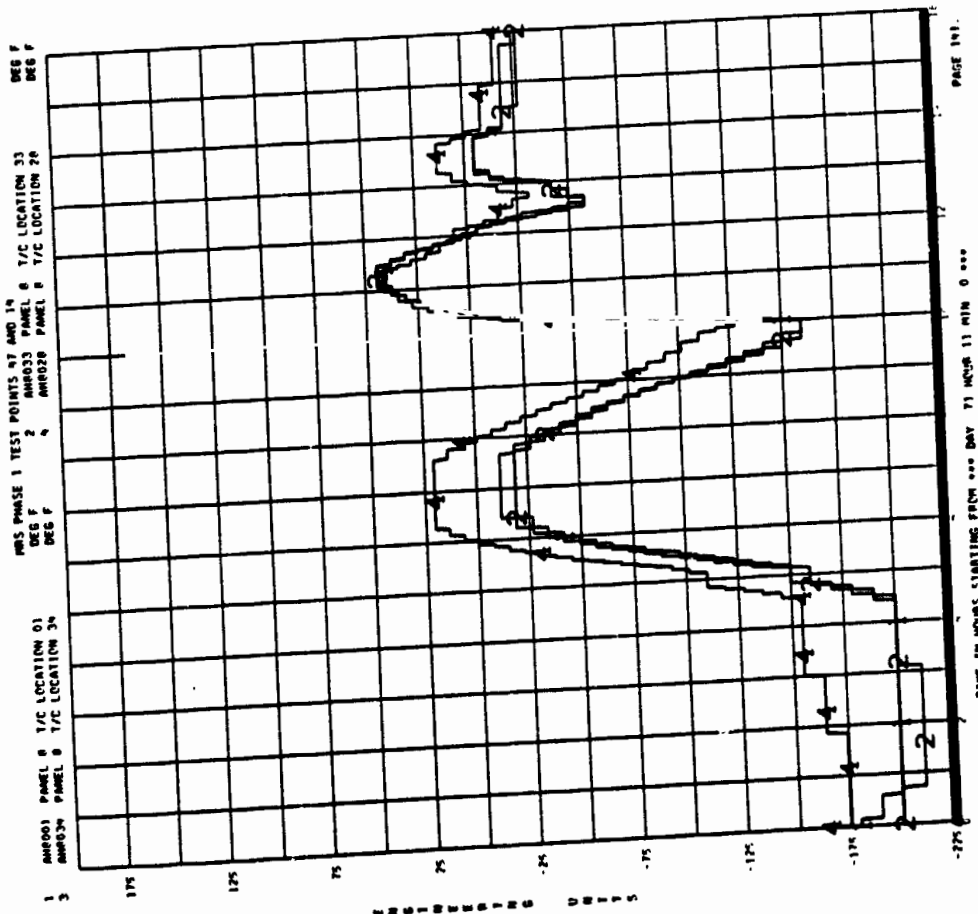
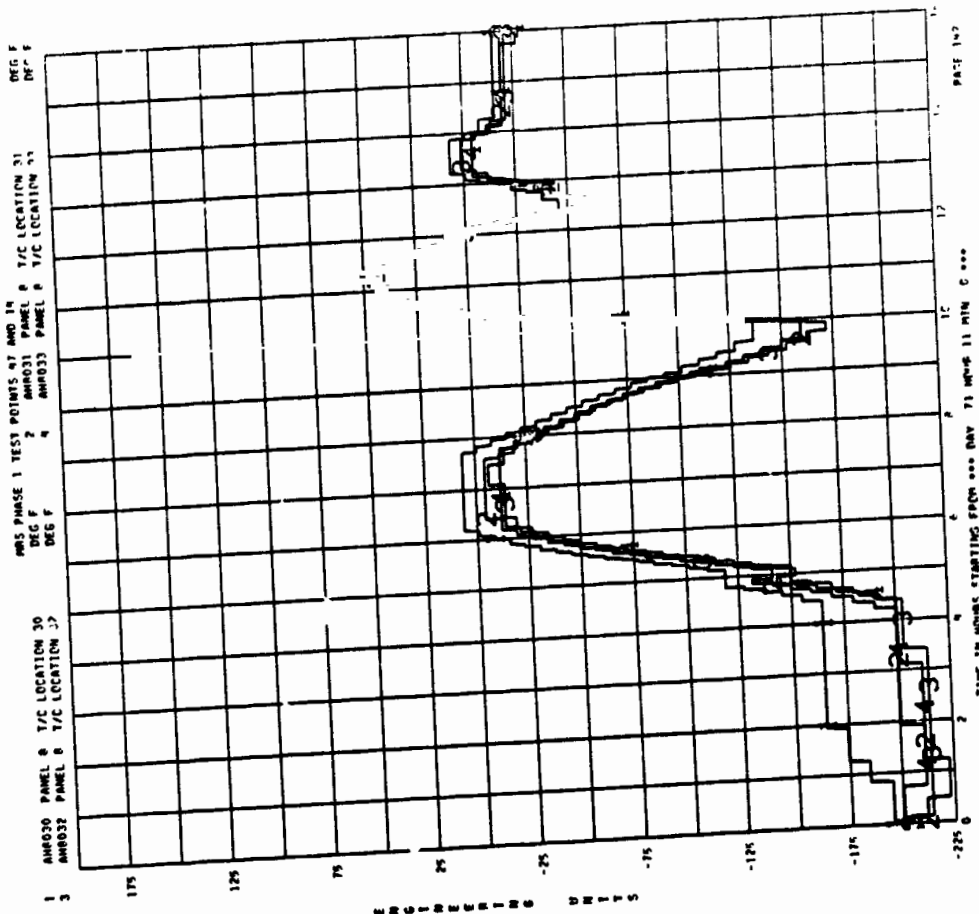


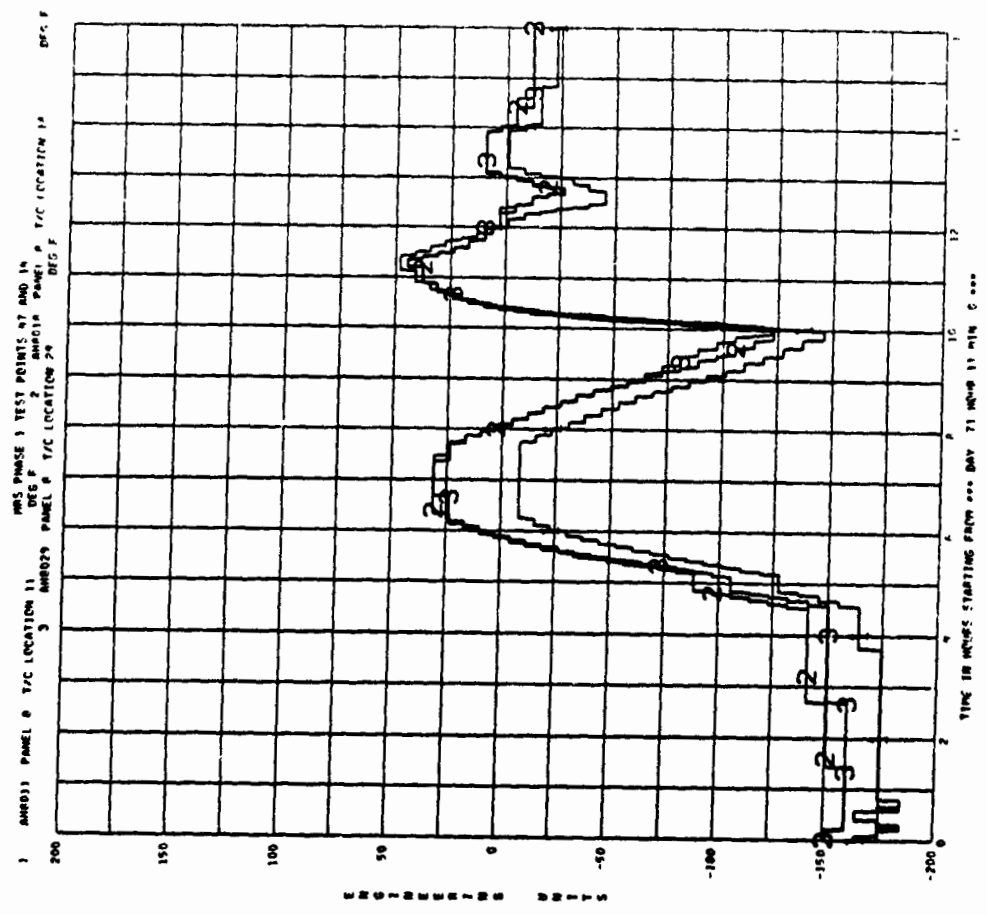
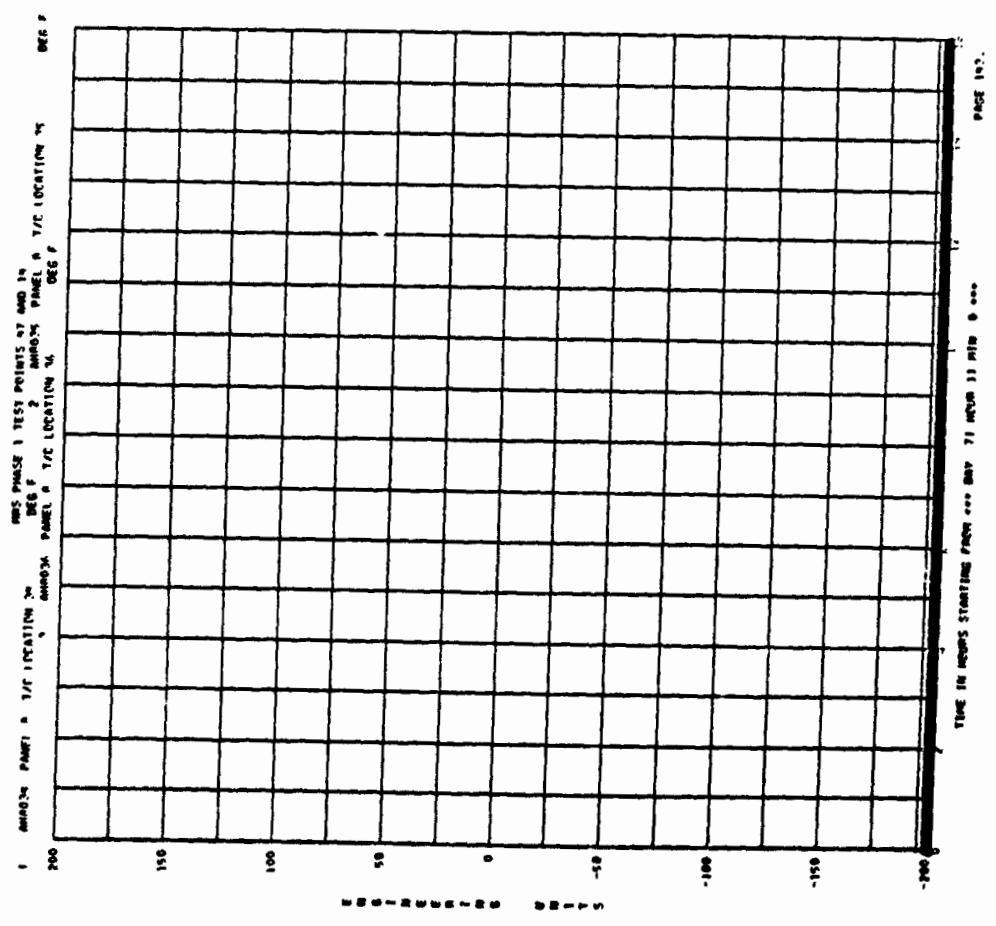










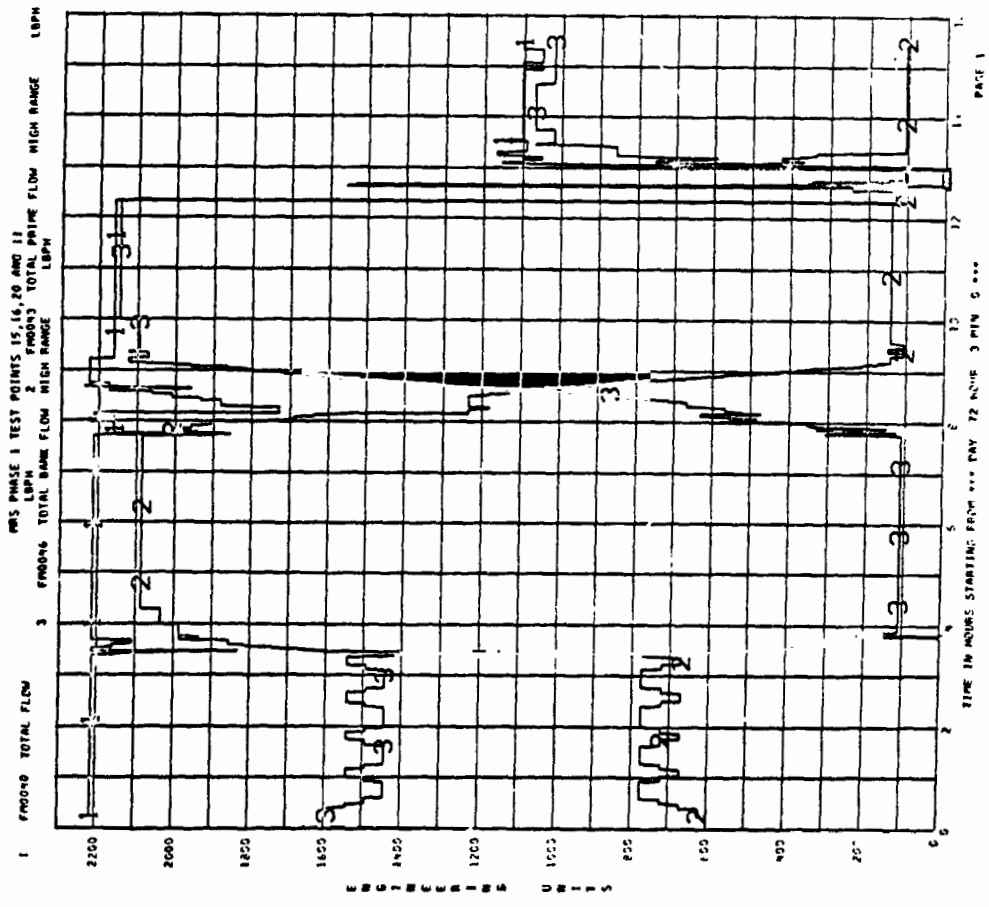
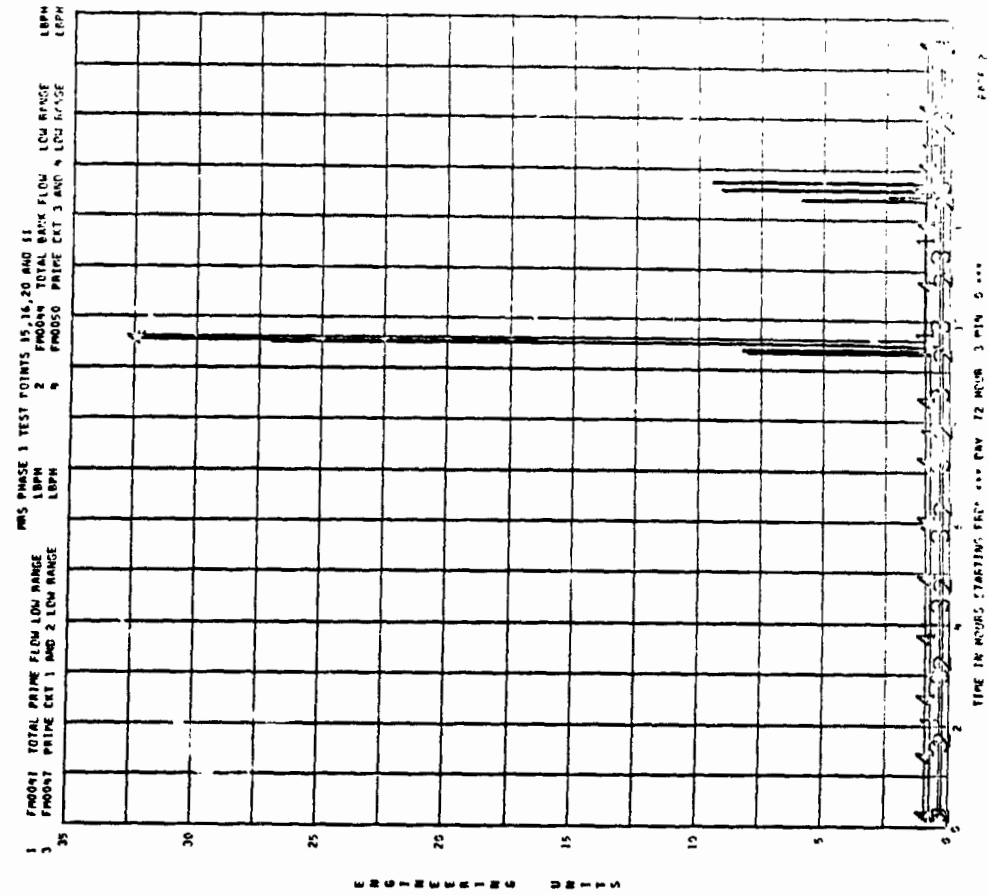


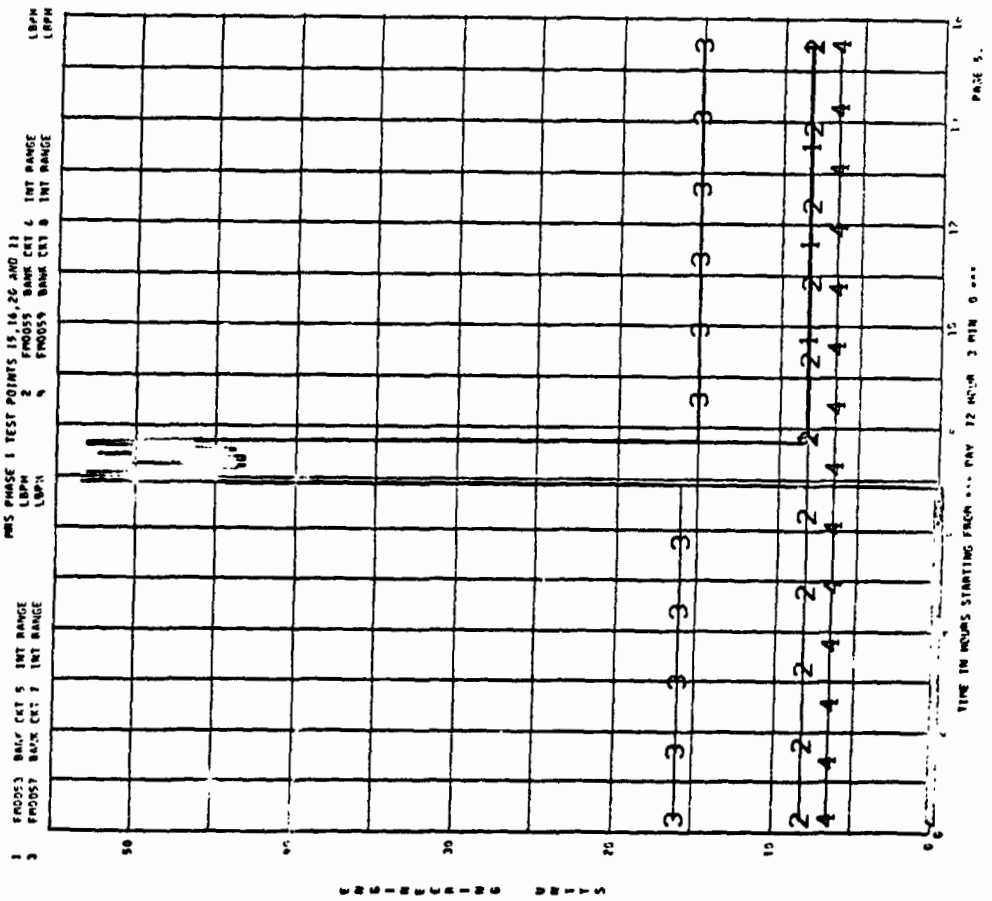
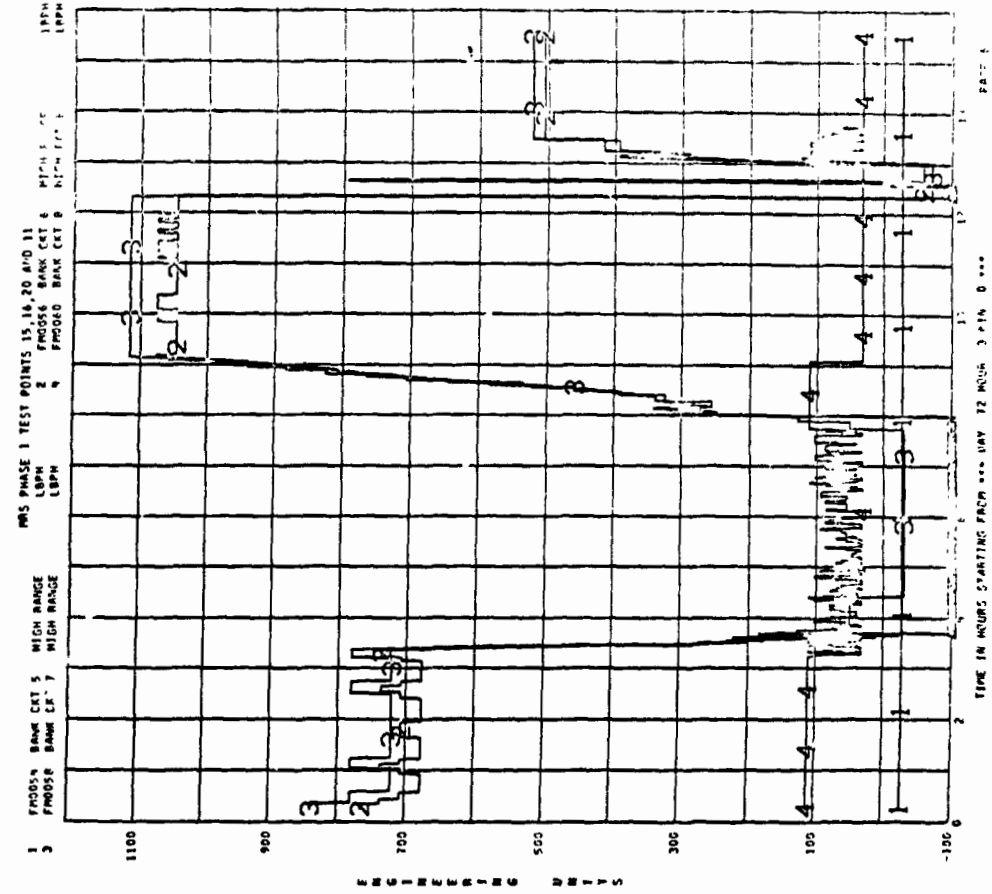
TEST GROUP E

72:03:15 - 72:18:30

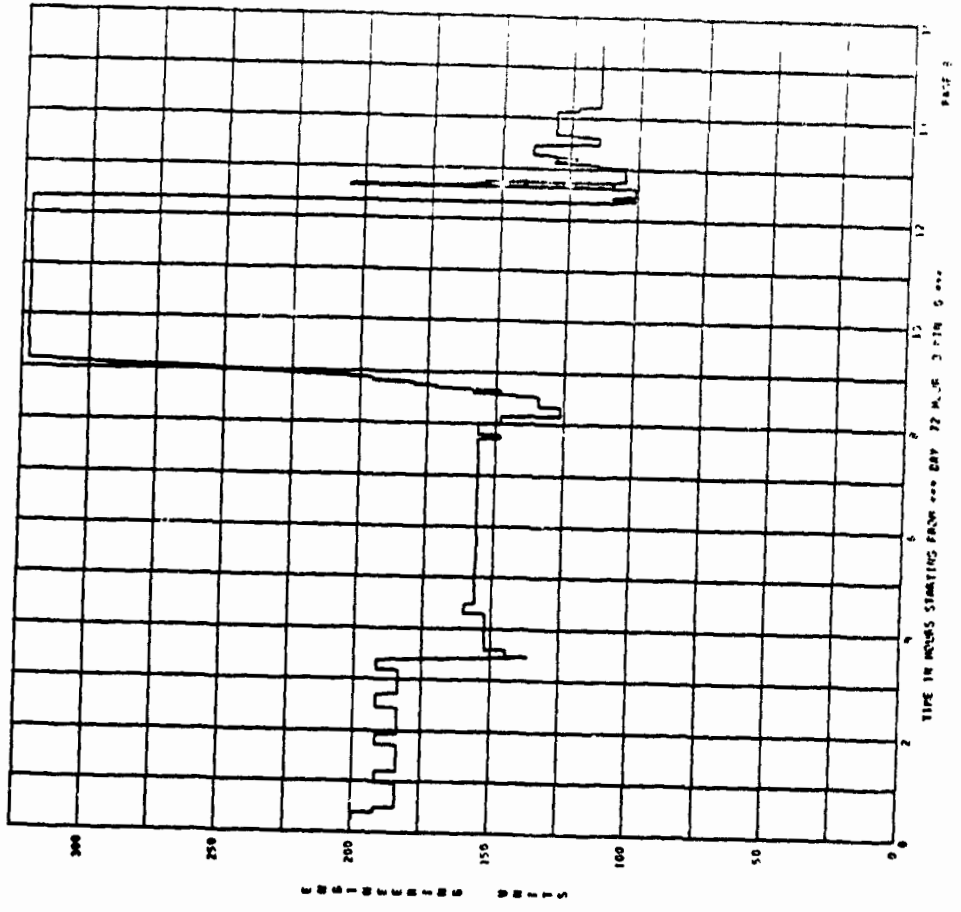
INCLUDES TEST POINTS

15(14A)
16
20
11

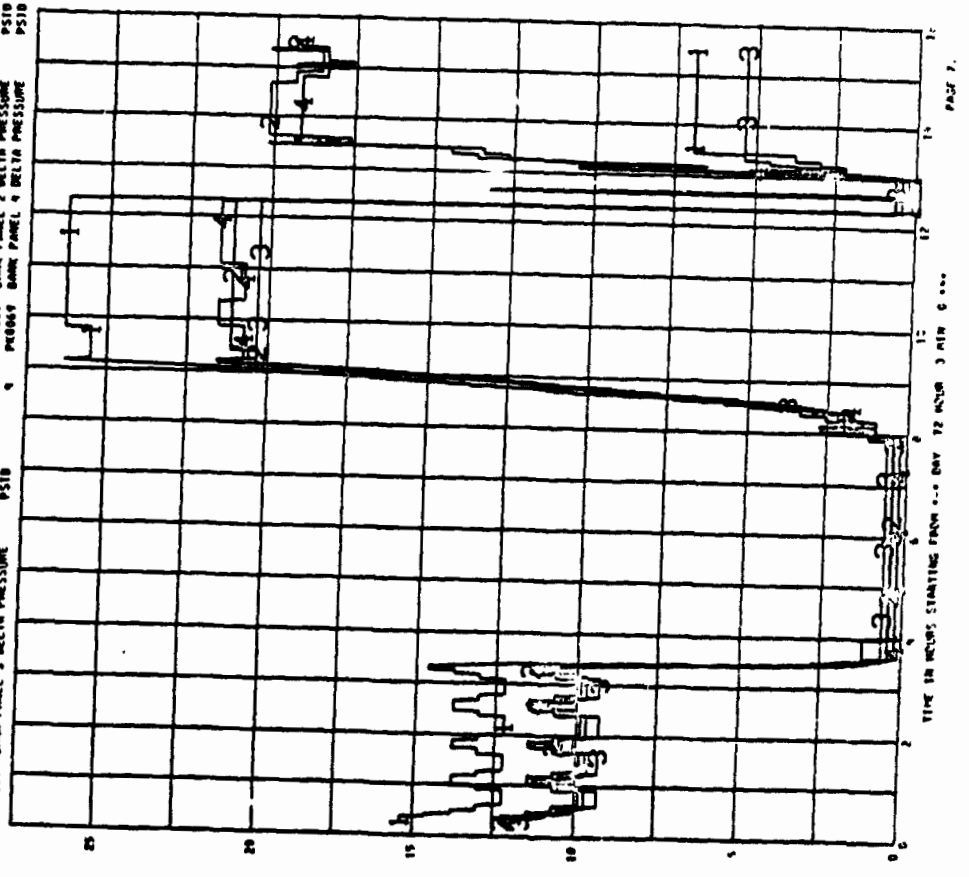


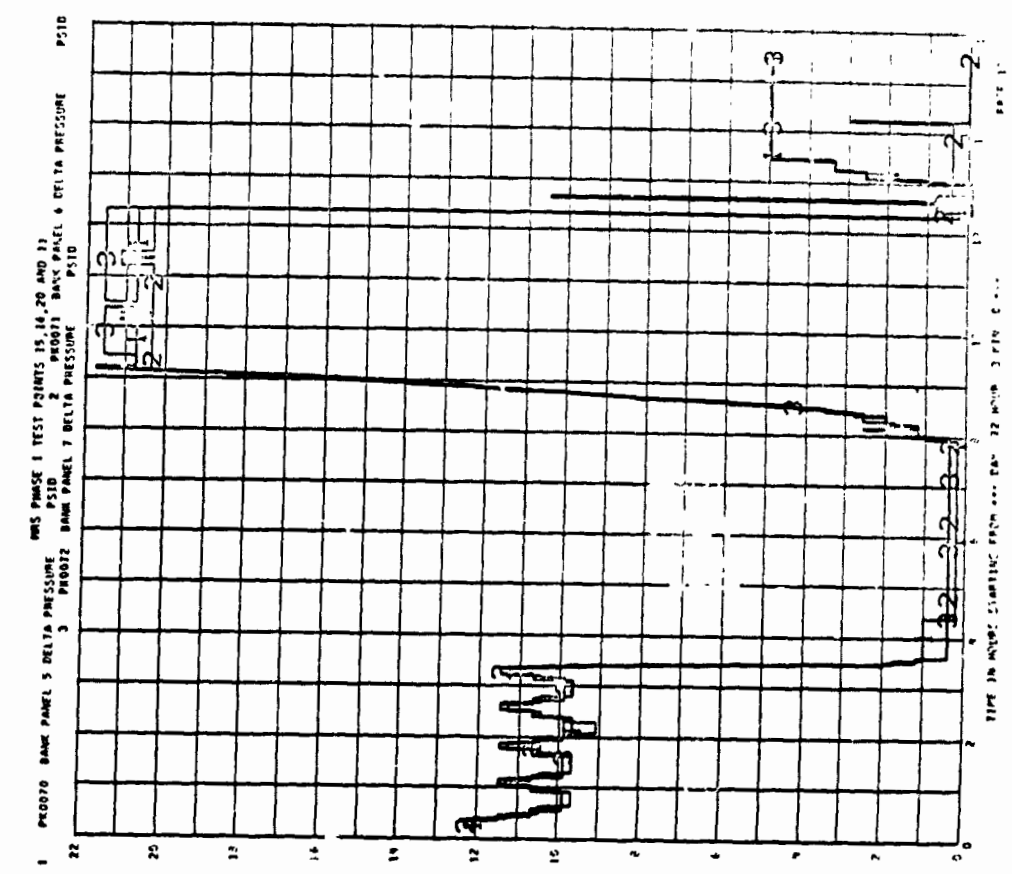
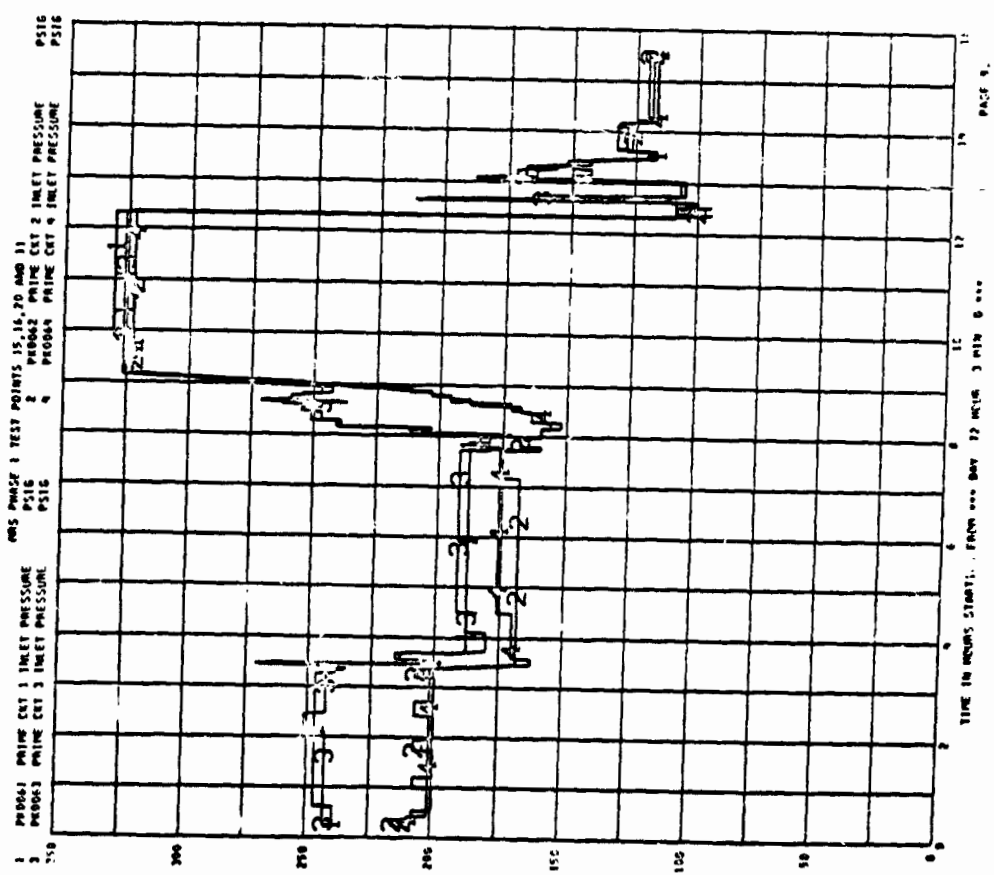


1 PMS PHASE 3 TEST POINTS 15, 16, 20 AND 11
 PMS PRIME TIME MIE OUTLET PRESSURE PSIG

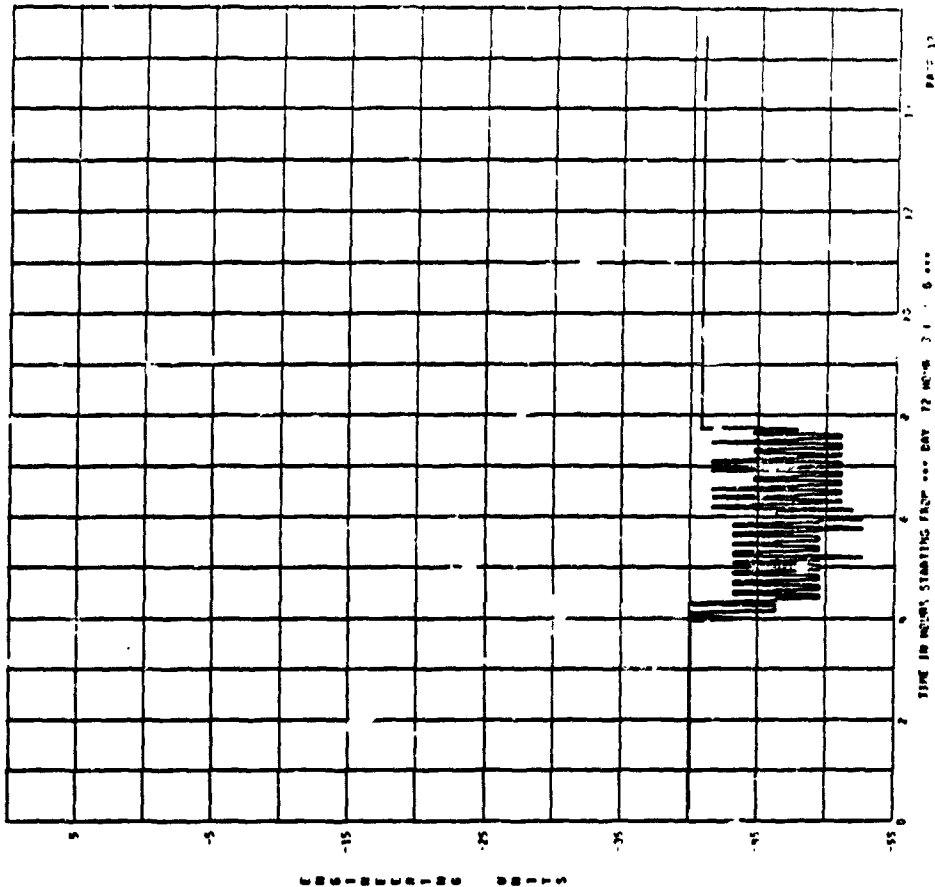


1 PMS PHASE 3 TEST POINTS 15, 16, 20 AND 11
 PMS PRIME TIME MIE OUTLET PRESSURE PSIG



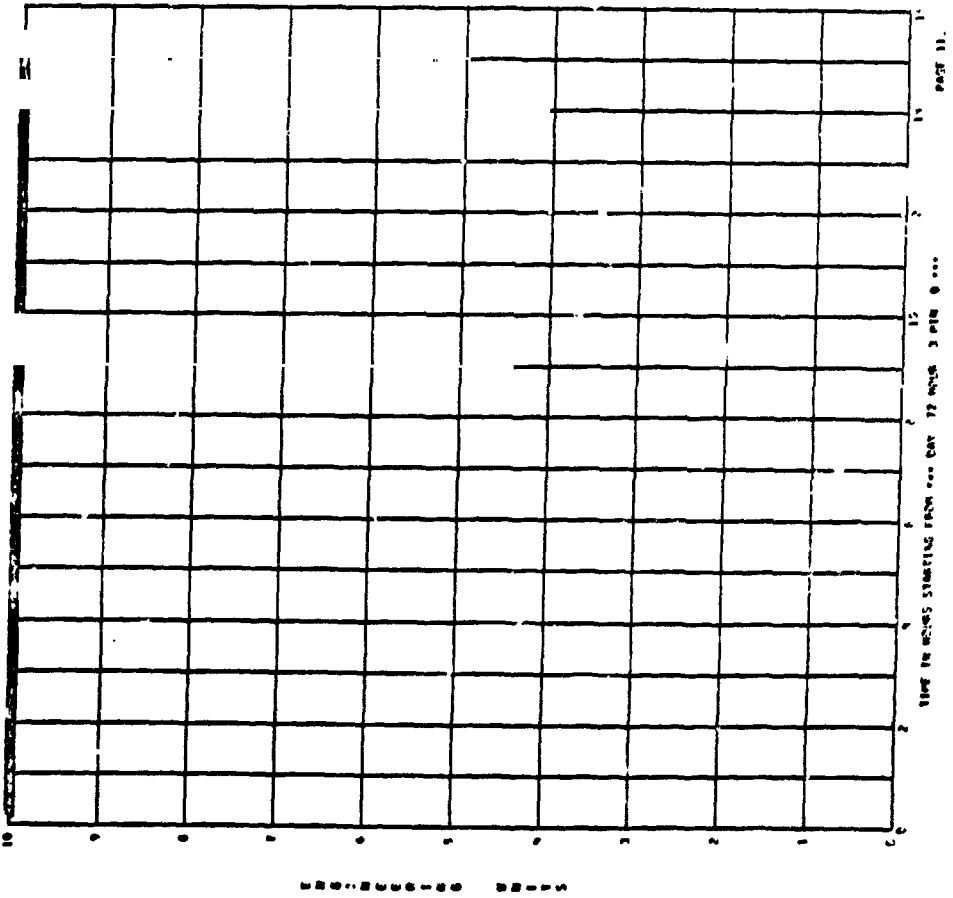


MS PHASE 1 TEST POINTS 15, 16, 20 AND 11
07000Z BARR SYSTEM INLET
066 F



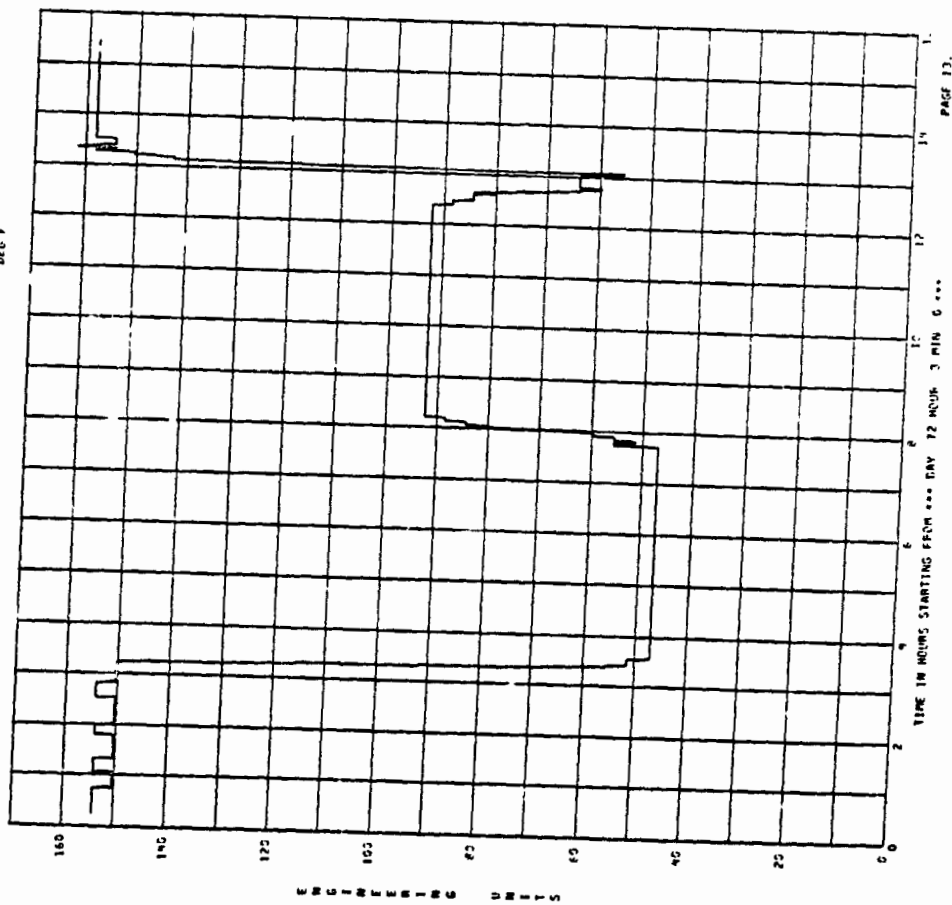
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MS PHASE 1 TEST POINTS 15, 16, 20 AND 11
010001 PRIME SYSTEM INLET
066 F

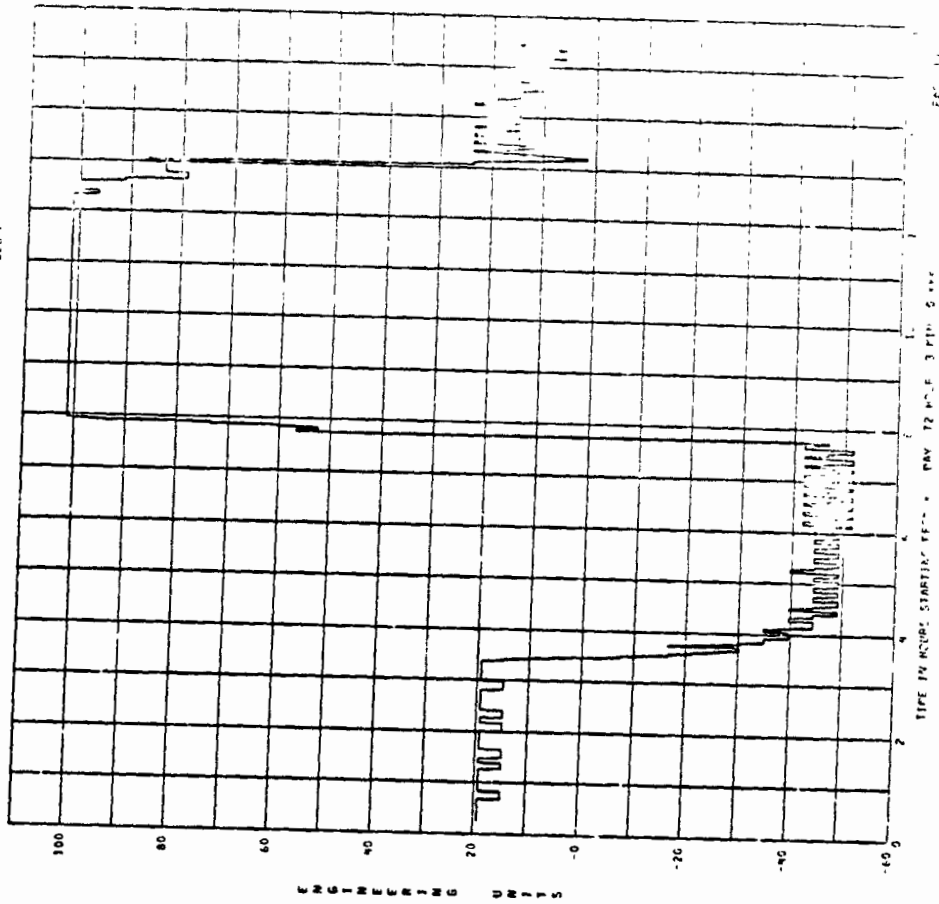


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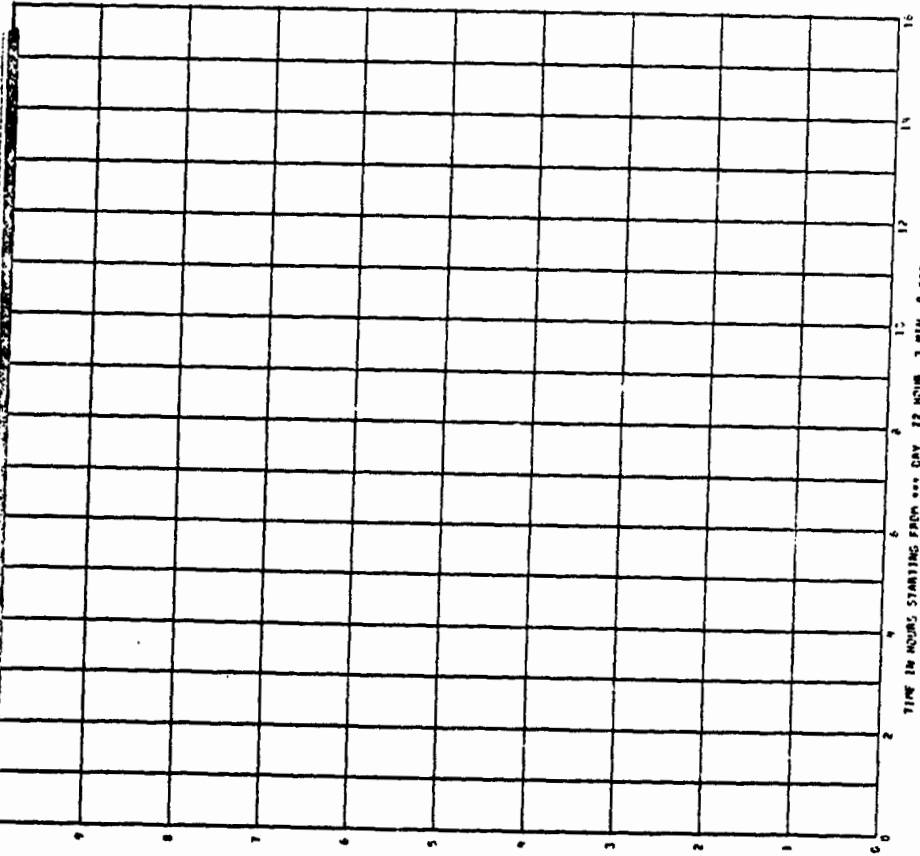
1 A10001 PINE SYSTEM INLET
 RMS PHASE 1 TEST POINTS 15, 16, 20 AND 21
 DEG F



1 A10002 BANK SYSTEM INLET
 RMS PHASE 1 TEST POINTS 15, 16, 20 AND 21
 DEG F

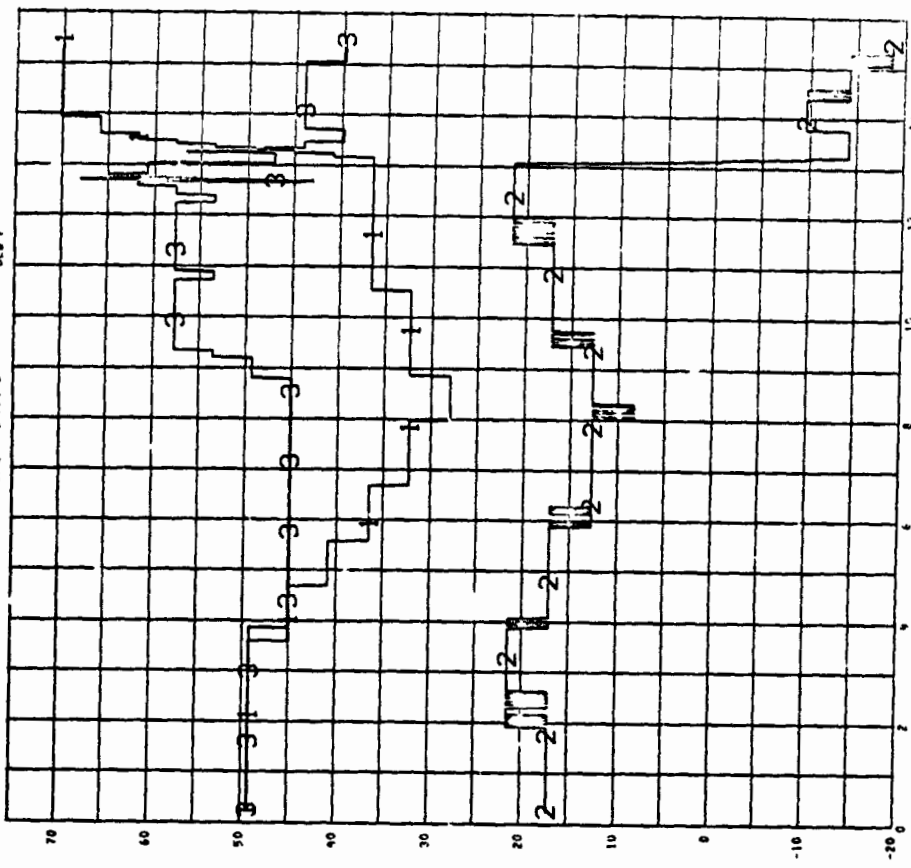


1 A10019 PRIME TUBES OUTLET MIX IN CH
 2 A10028 BANK TUBES OUTLET MIX IN CH
 3 A10039 MIXED BANK AND PRIME

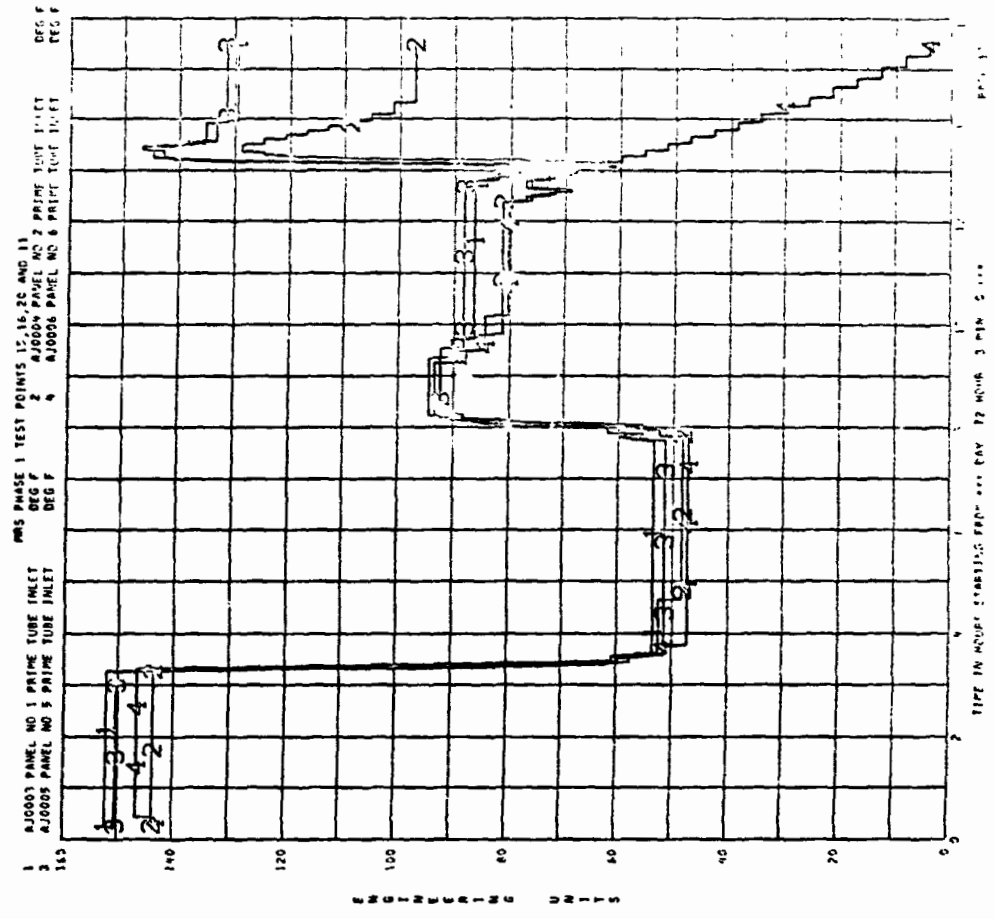
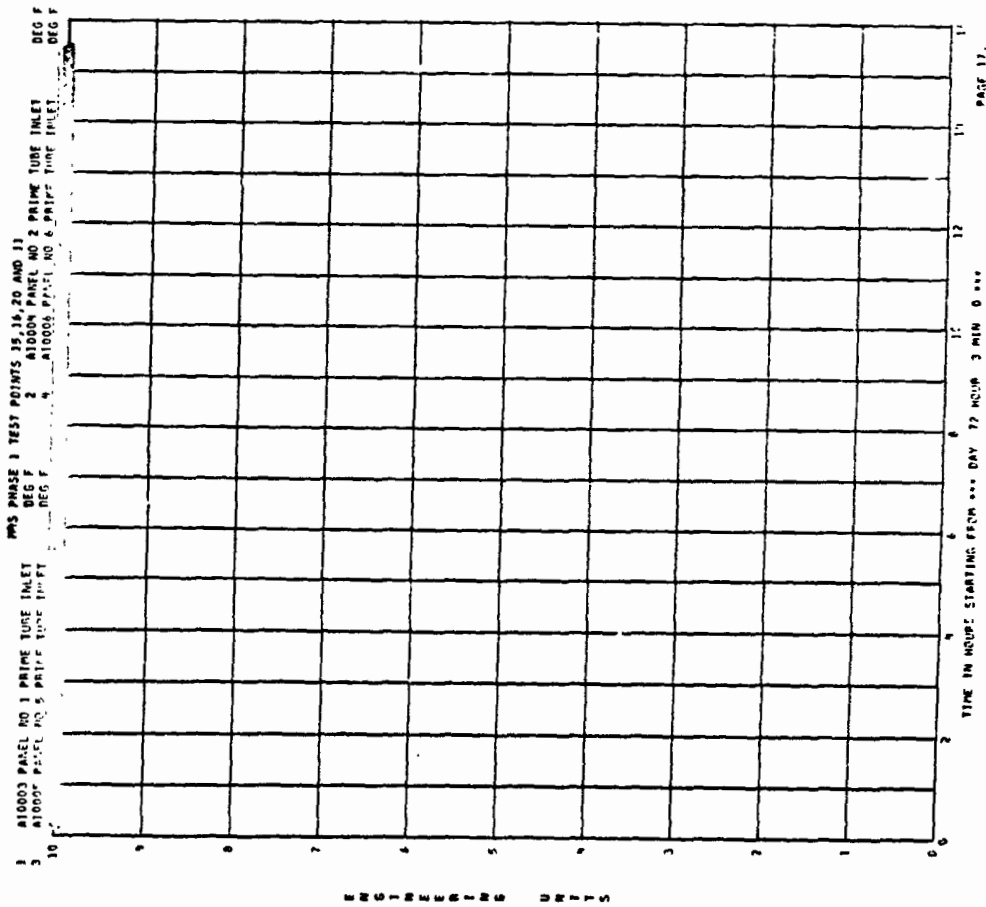


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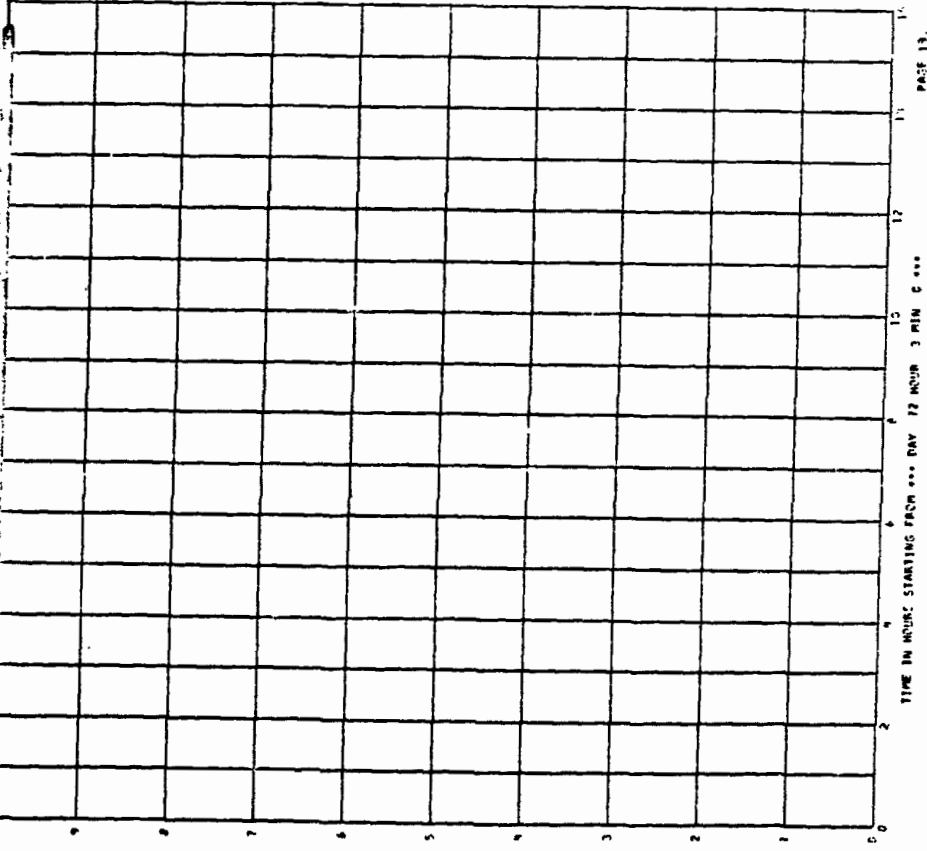
1 A10019 PRIME TUBES OUTLET MIX IN CH
 2 A10028 BANK TUBES OUTLET MIX IN CH
 3 A10039 MIXED BANK AND PRIME



PAGE 15.

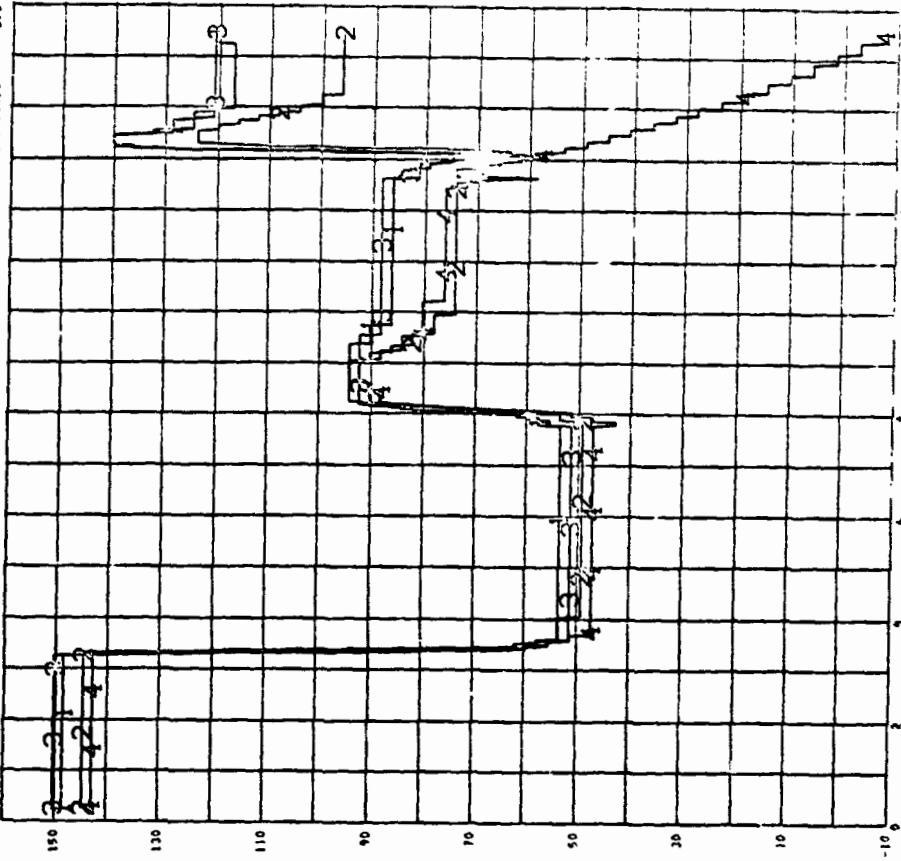


1 A10007 PANEL NO 1 PRIME TUBE OUTLET DEG F
 2 A10008 PANEL NO 2 PRIME TUBE OUTLET DEG F
 3 A10009 PANEL NO 5 PRIME TUBE OUTLET DEG F
 4 A10010 PANEL NO 6 PRIME TUBE OUTLET DEG F



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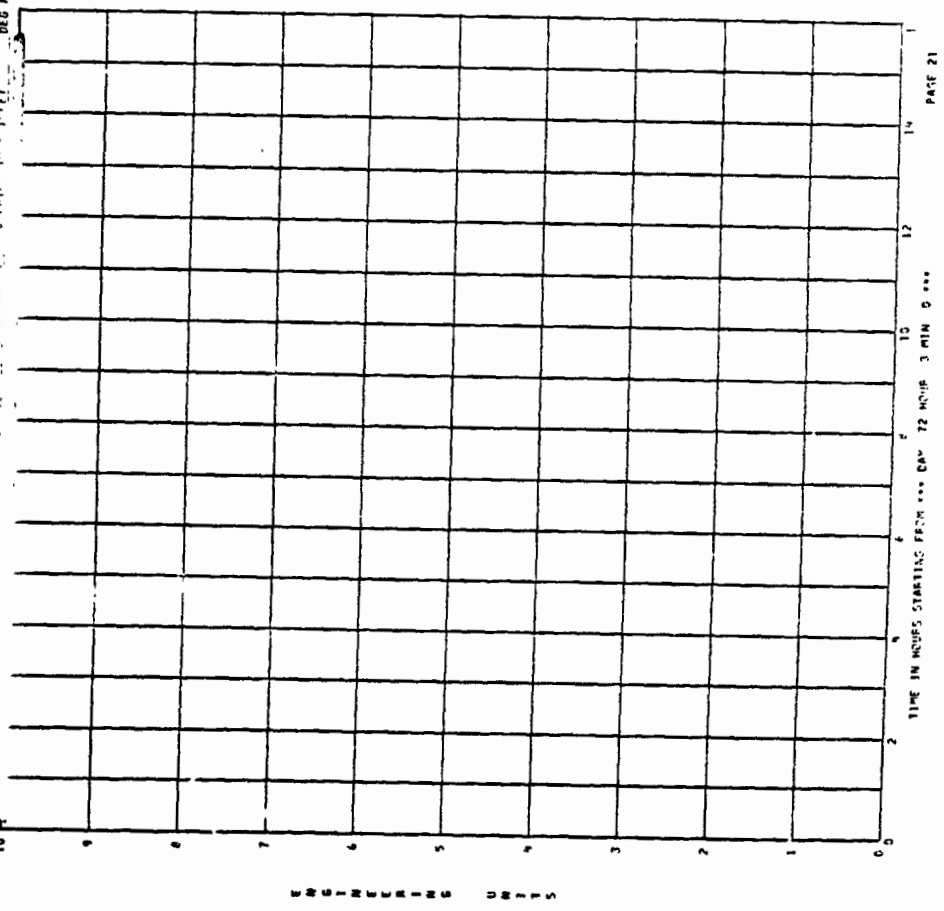
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 2 A10008 PANEL NO 2 PRIME TUBE OUTLET DEG F
 3 A10009 PANEL NO 5 PRIME TUBE OUTLET DEG F
 4 A10010 PANEL NO 6 PRIME TUBE OUTLET DEG F



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1 A0011 PANEL NO 3 PRIME TUBE INLET DEG F
 2 A0012 PANEL NO 4 PRIME TUBE INLET DEG F
 3 A0013 PANEL NO 5 PRIME TUBE INLET DEG F
 4 A0014 PANEL NO 6 PRIME TUBE INLET DEG F
 5 A0015 PANEL NO 7 PRIME TUBE INLET DEG F
 6 A0016 PANEL NO 8 PRIME TUBE INLET DEG F
 7 A0017 PANEL NO 9 PRIME TUBE INLET DEG F
 8 A0018 PANEL NO 10 PRIME TUBE INLET DEG F
 9 A0019 PANEL NO 11 PRIME TUBE INLET DEG F
 10 A0020 PANEL NO 12 PRIME TUBE INLET DEG F

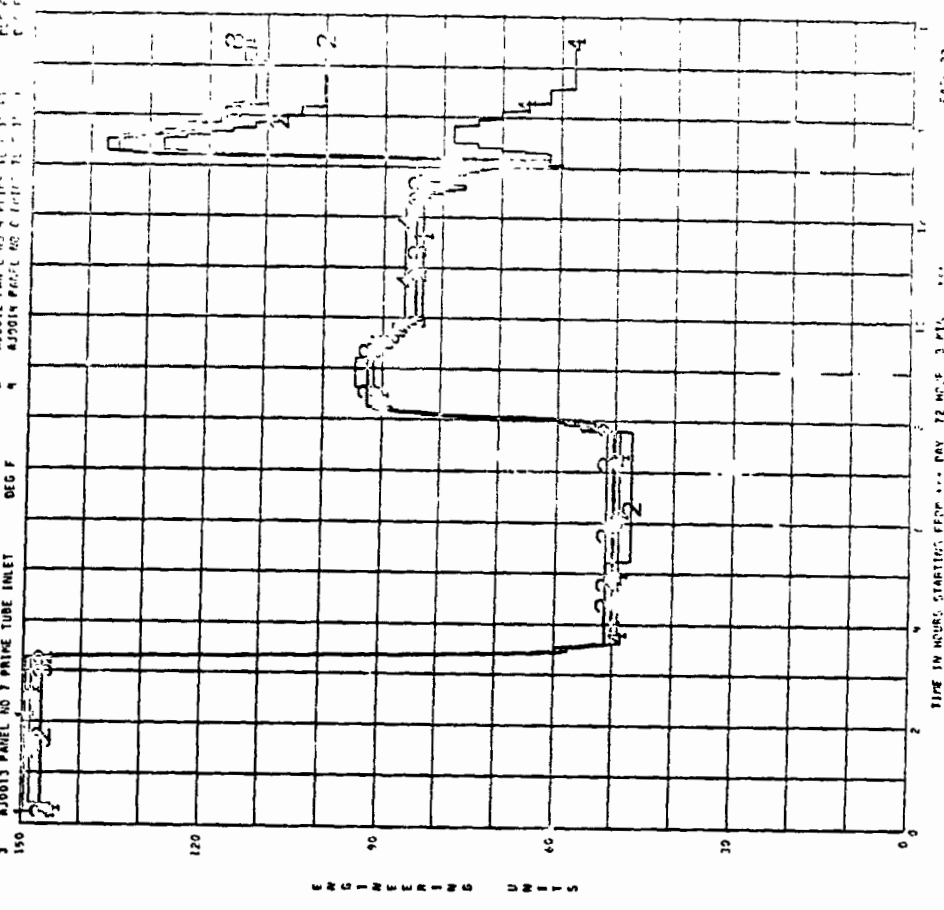
RMS PHASE I TEST POINTS 15, 16, 20 AND 11
 DEG F
 DEG F
 DEG F



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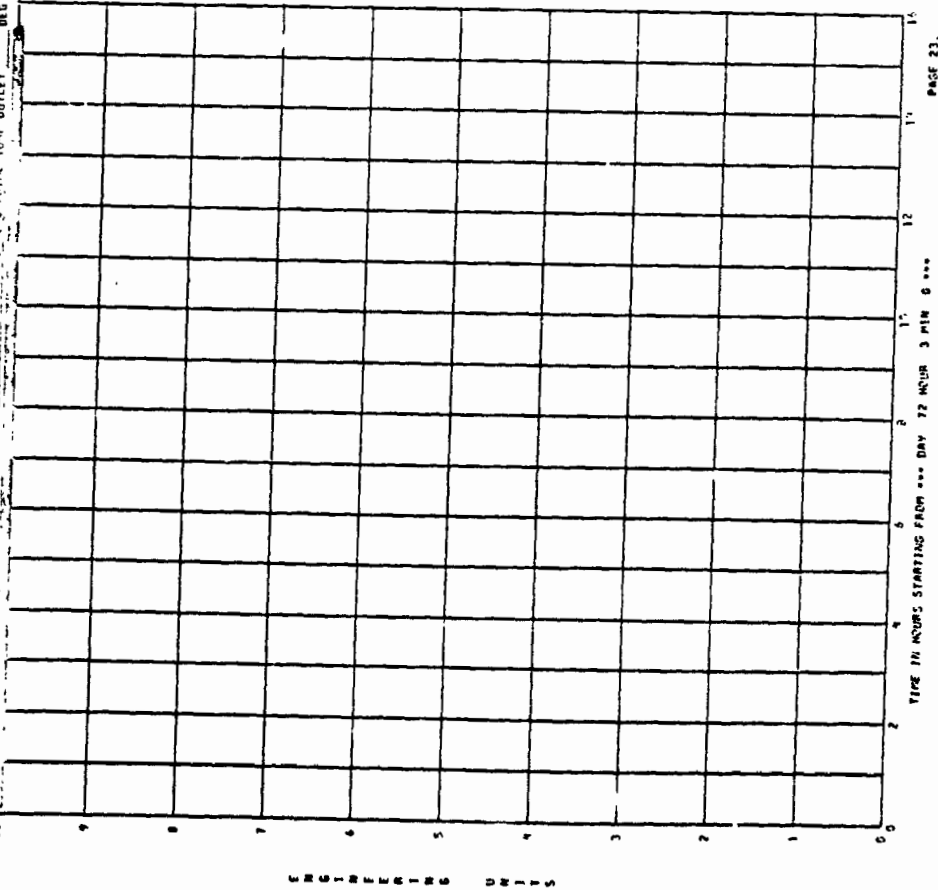
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 2 A0012 PANEL NO 4 PRIME TUBE INLET DEG F
 3 A0013 PANEL NO 5 PRIME TUBE INLET DEG F
 4 A0014 PANEL NO 6 PRIME TUBE INLET DEG F
 5 A0015 PANEL NO 7 PRIME TUBE INLET DEG F
 6 A0016 PANEL NO 8 PRIME TUBE INLET DEG F
 7 A0017 PANEL NO 9 PRIME TUBE INLET DEG F
 8 A0018 PANEL NO 10 PRIME TUBE INLET DEG F
 9 A0019 PANEL NO 11 PRIME TUBE INLET DEG F
 10 A0020 PANEL NO 12 PRIME TUBE INLET DEG F

RMS PHASE I TEST POINTS 15, 16, 20 AND 11
 DEG F
 DEG F
 DEG F

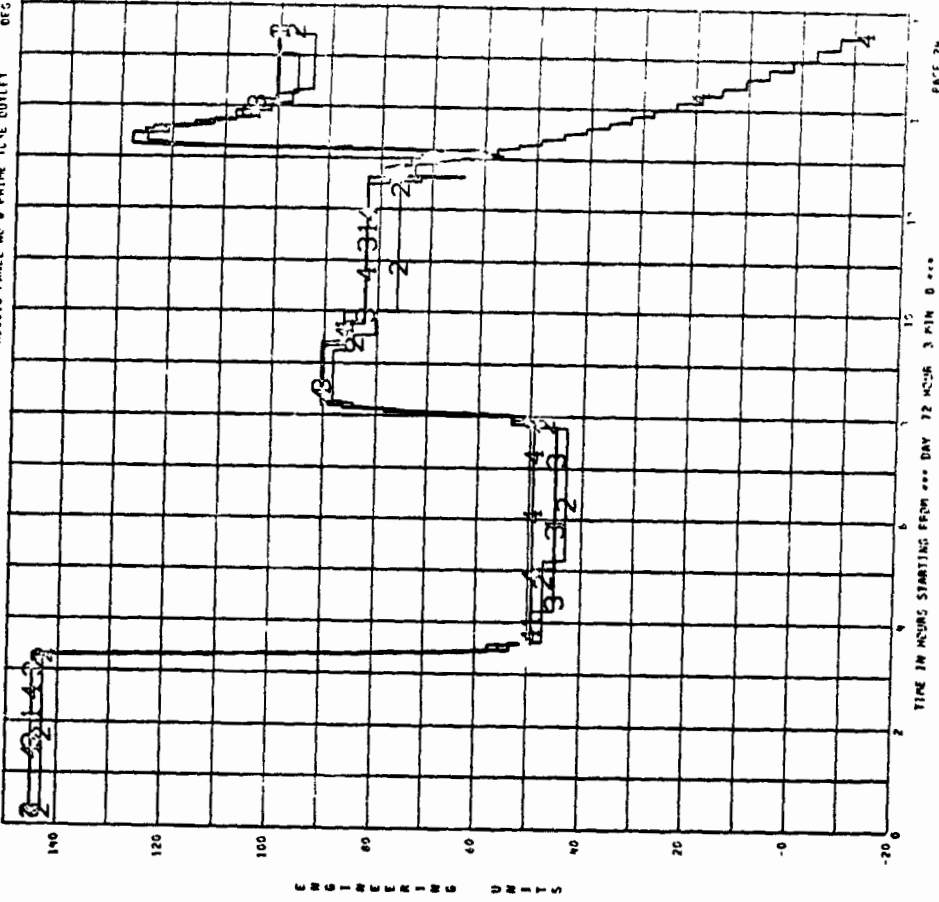


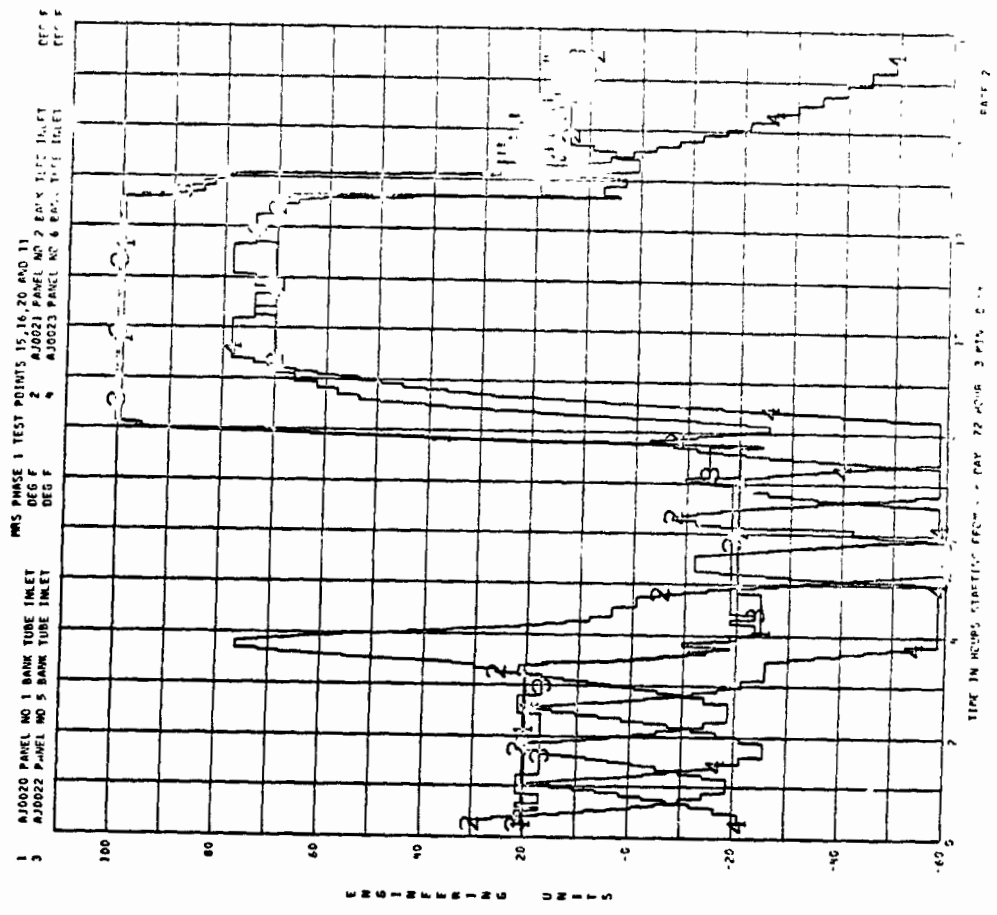
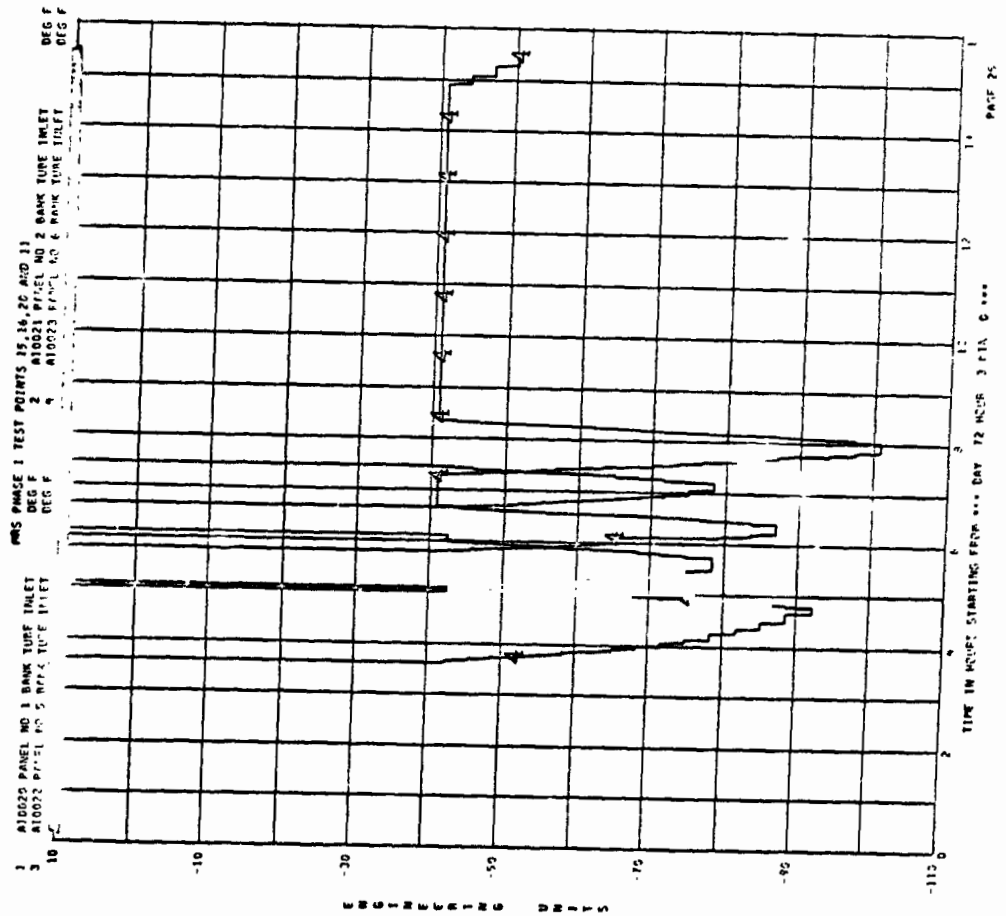
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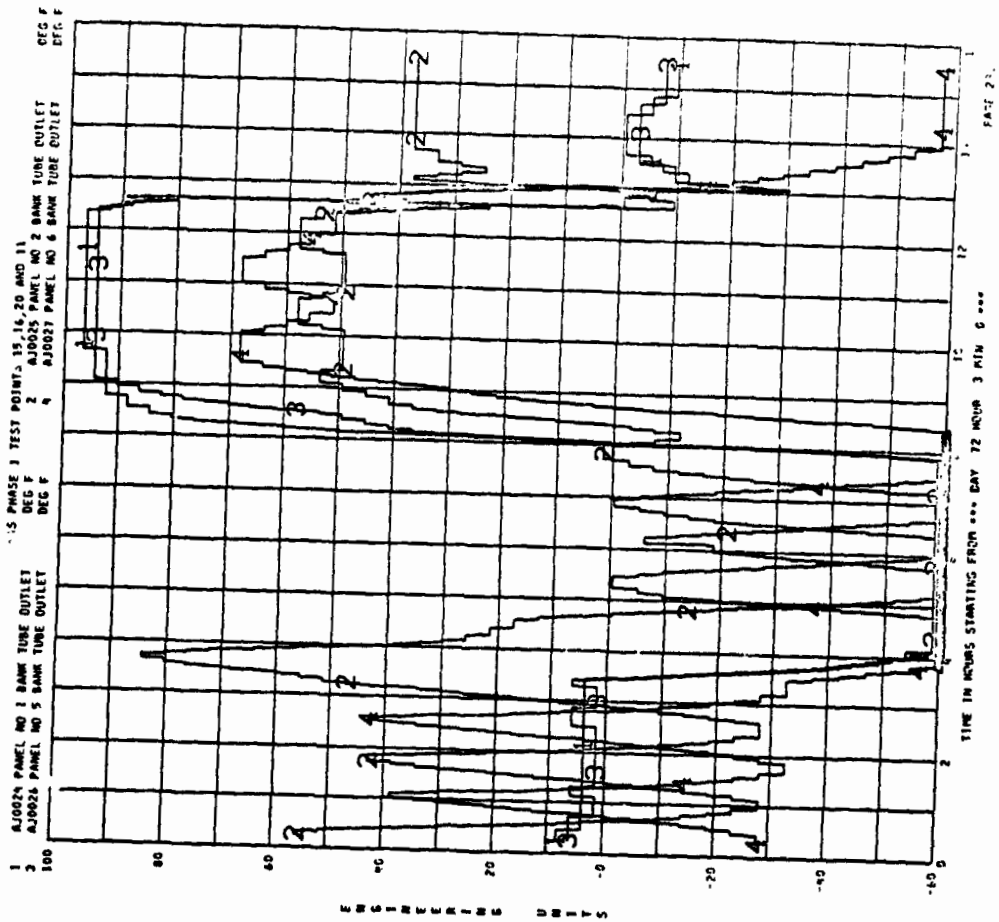
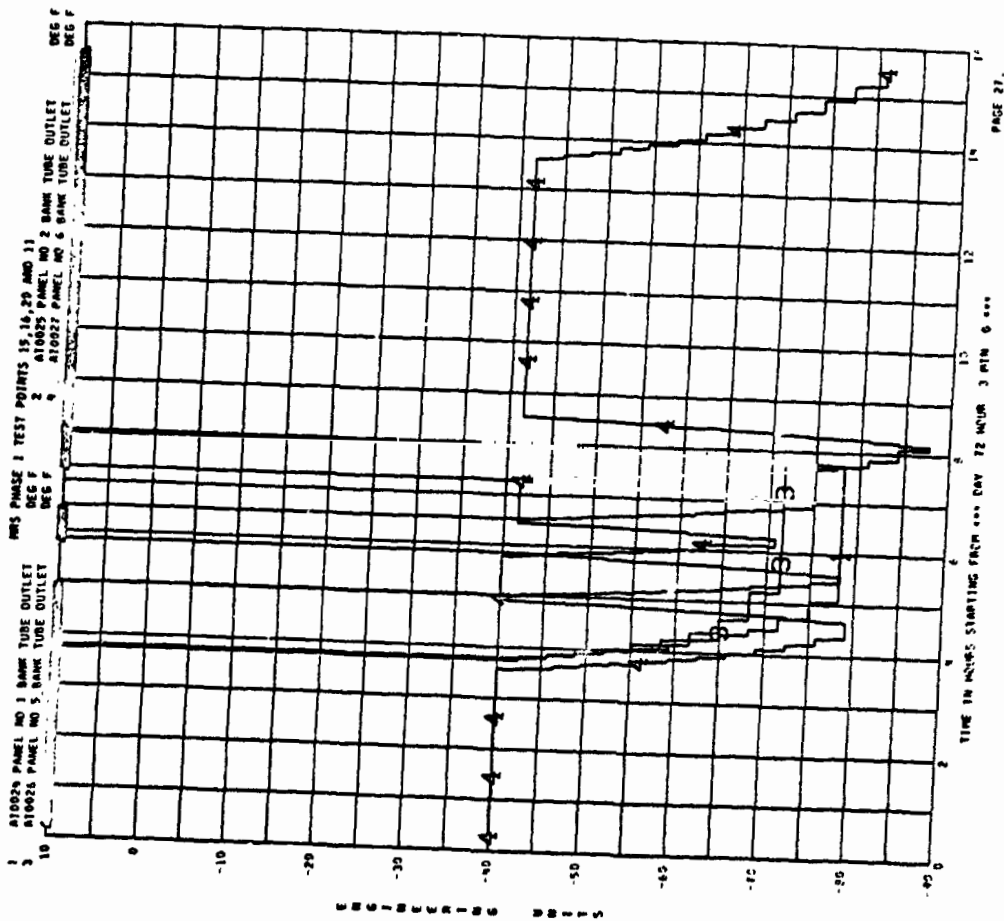
1 A10015 PANEL NO 3 PRIME TUBE OUTLET DEG F
 2 A10016 PANEL NO 4 PRIME TUBE OUTLET DEG F
 3 A10017 PANEL NO 7 PRIME TUBE OUTLET DEG F
 4 A10018 PANEL NO 9 PRIME TUBE OUTLET DEG F
 5 A10019 PANEL NO 8 PRIME TUBE OUTLET DEG F

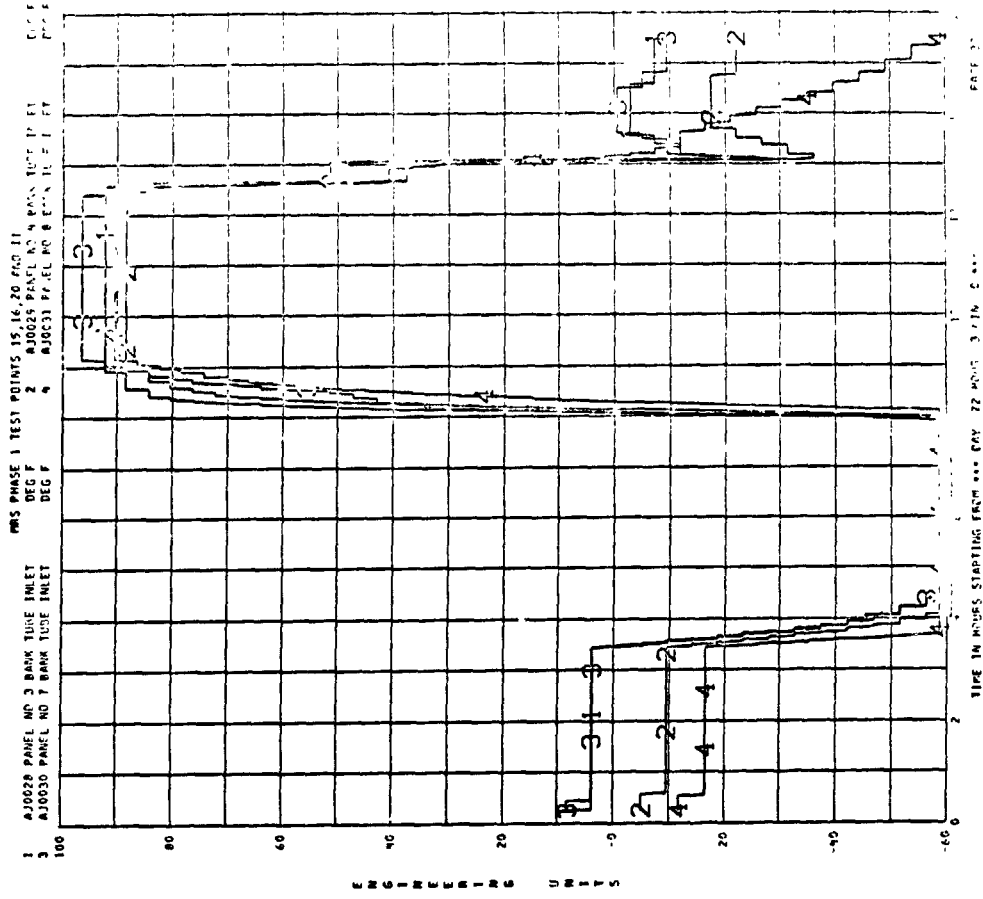
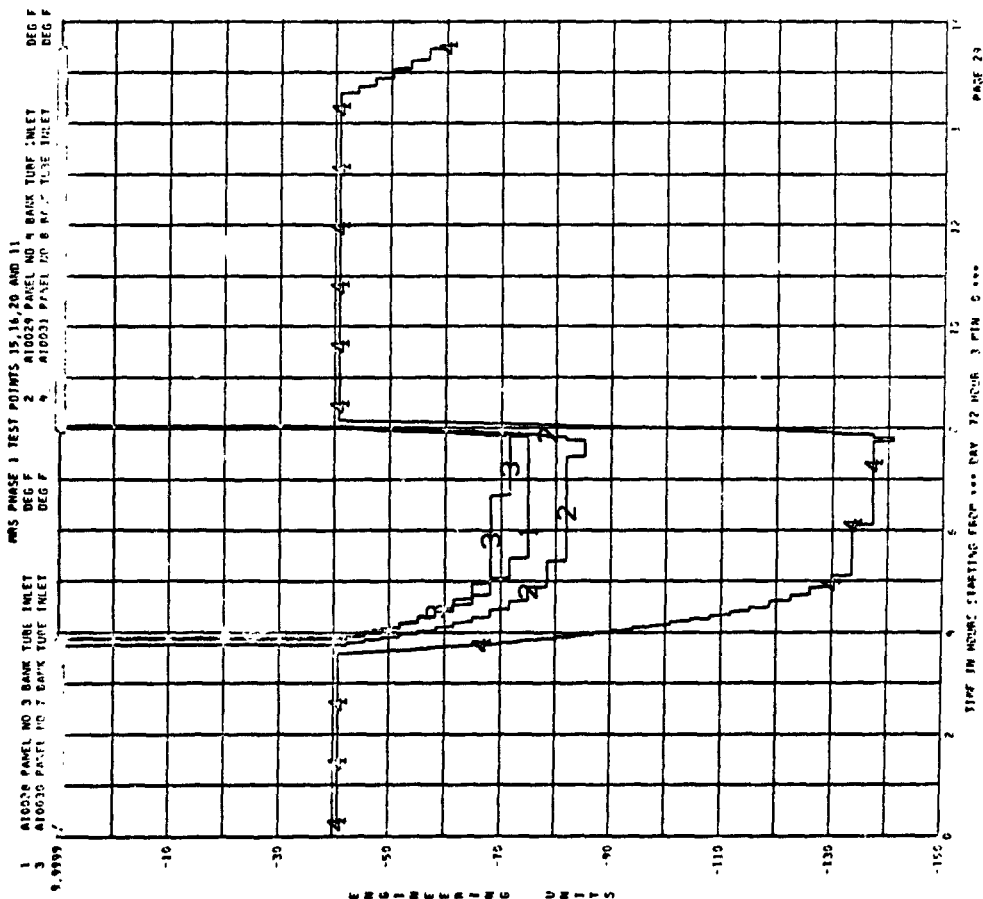


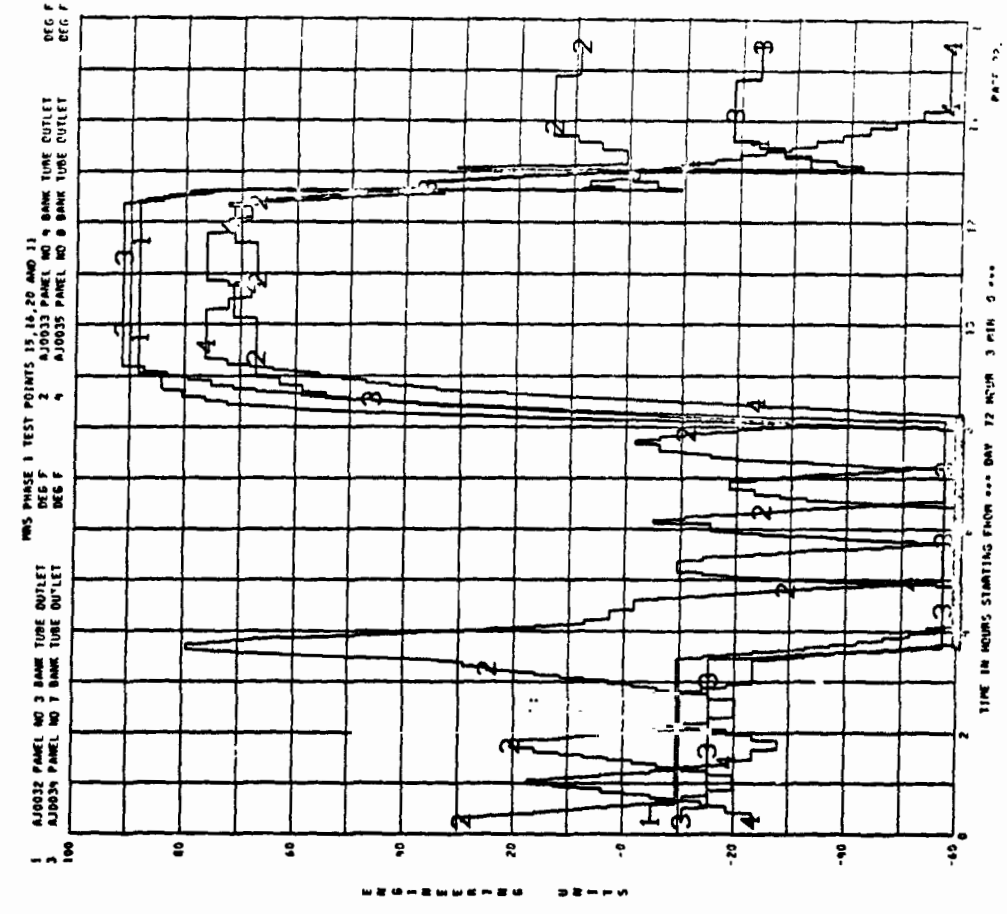
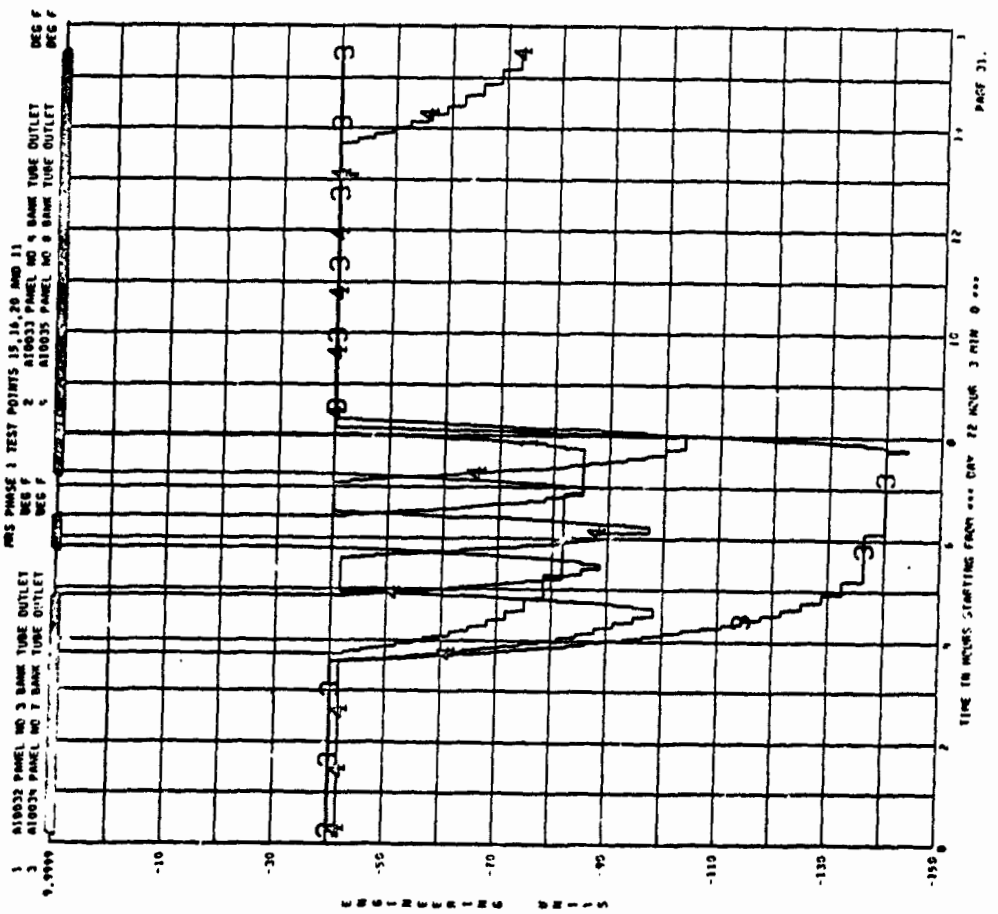
1 A10015 PANEL NO 3 PRIME TUBE OUTLET DEG F
 2 A10016 PANEL NO 4 PRIME TUBE OUTLET DEG F
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 5 A10019 PANEL NO 9 PRIME TUBE OUTLET DEG F

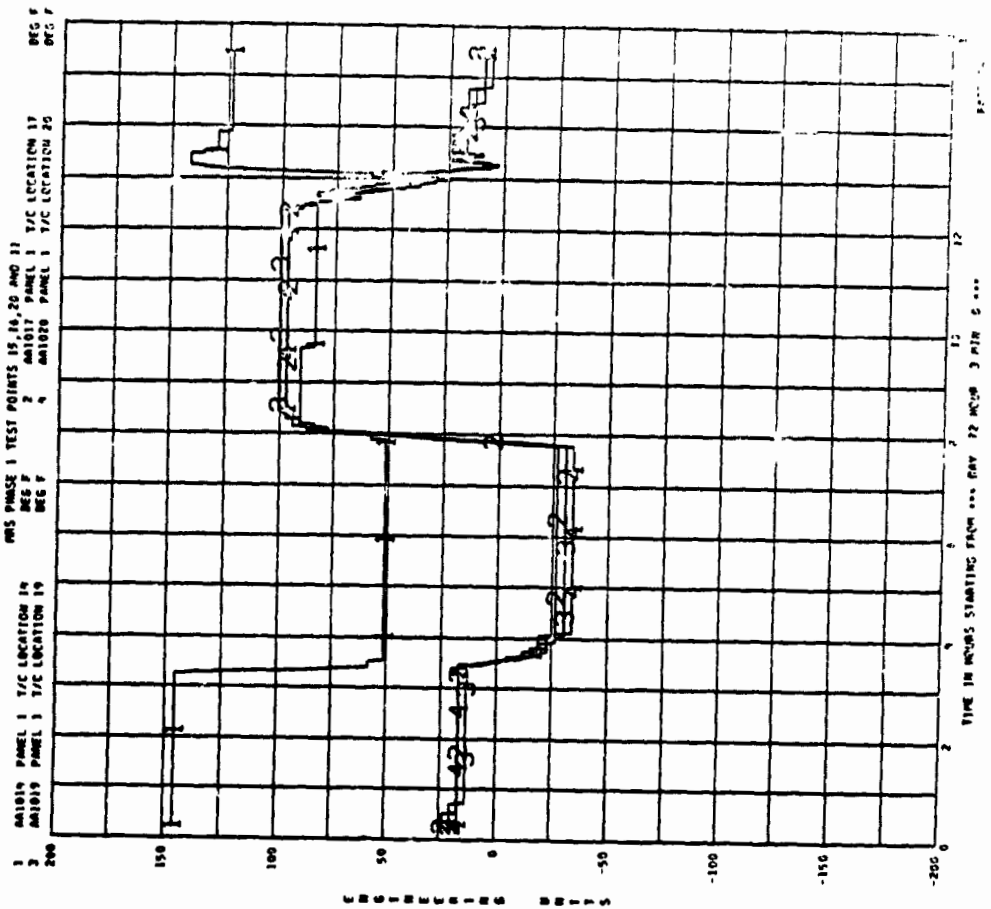
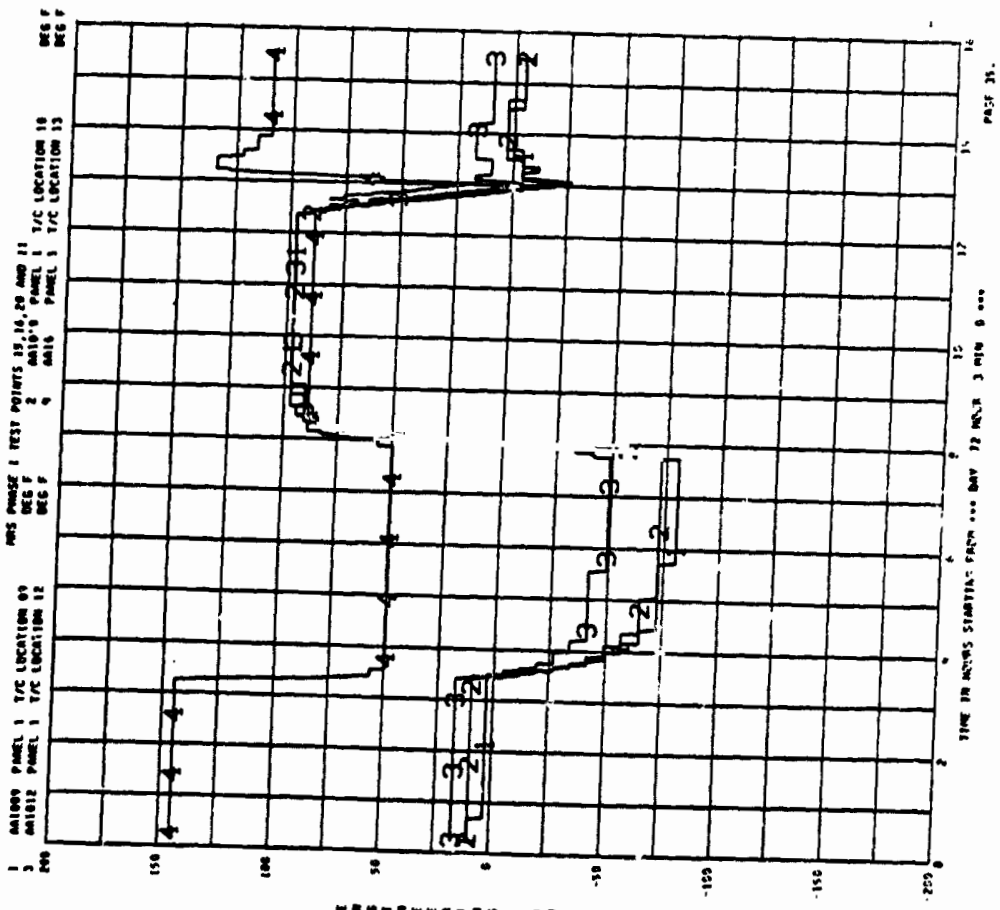


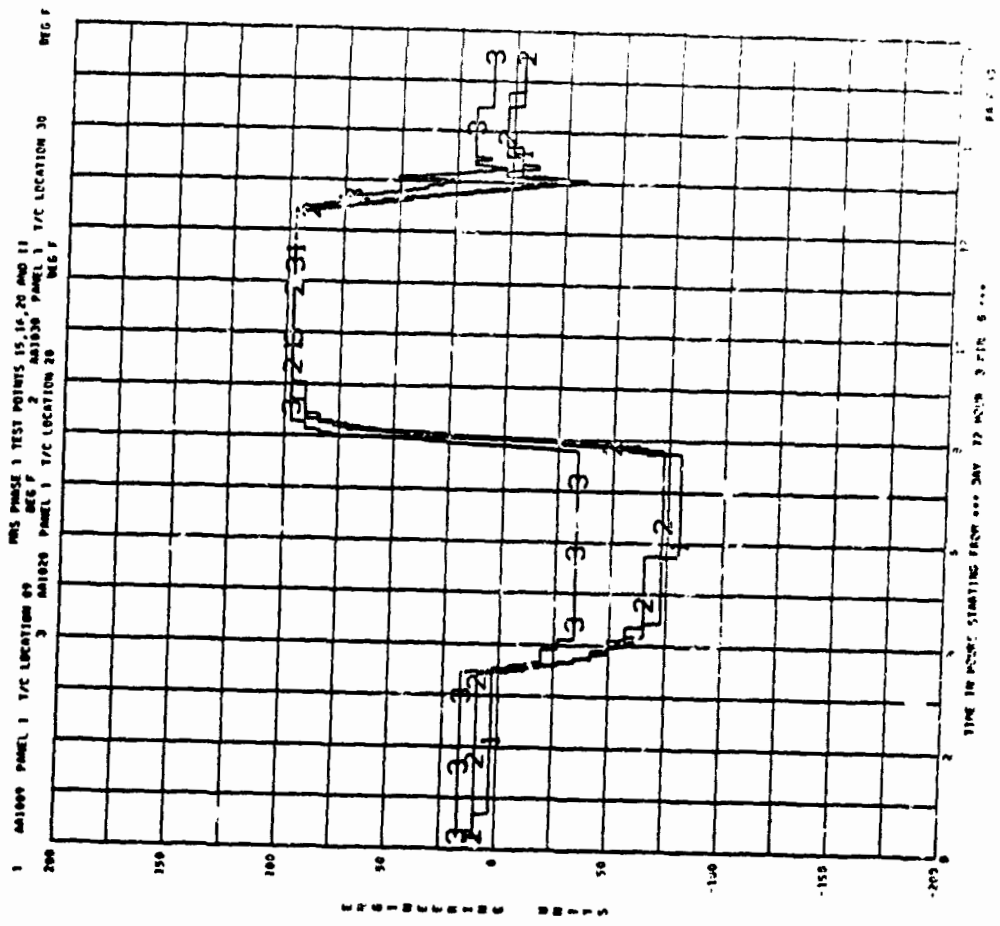
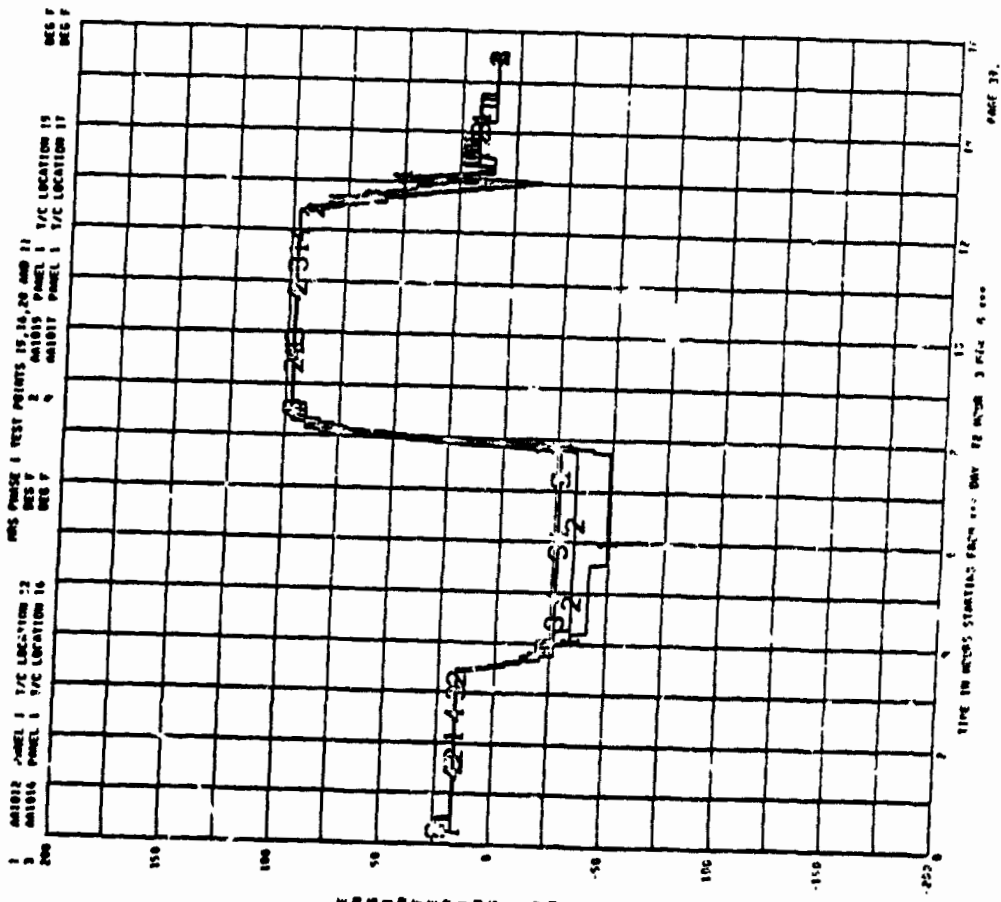


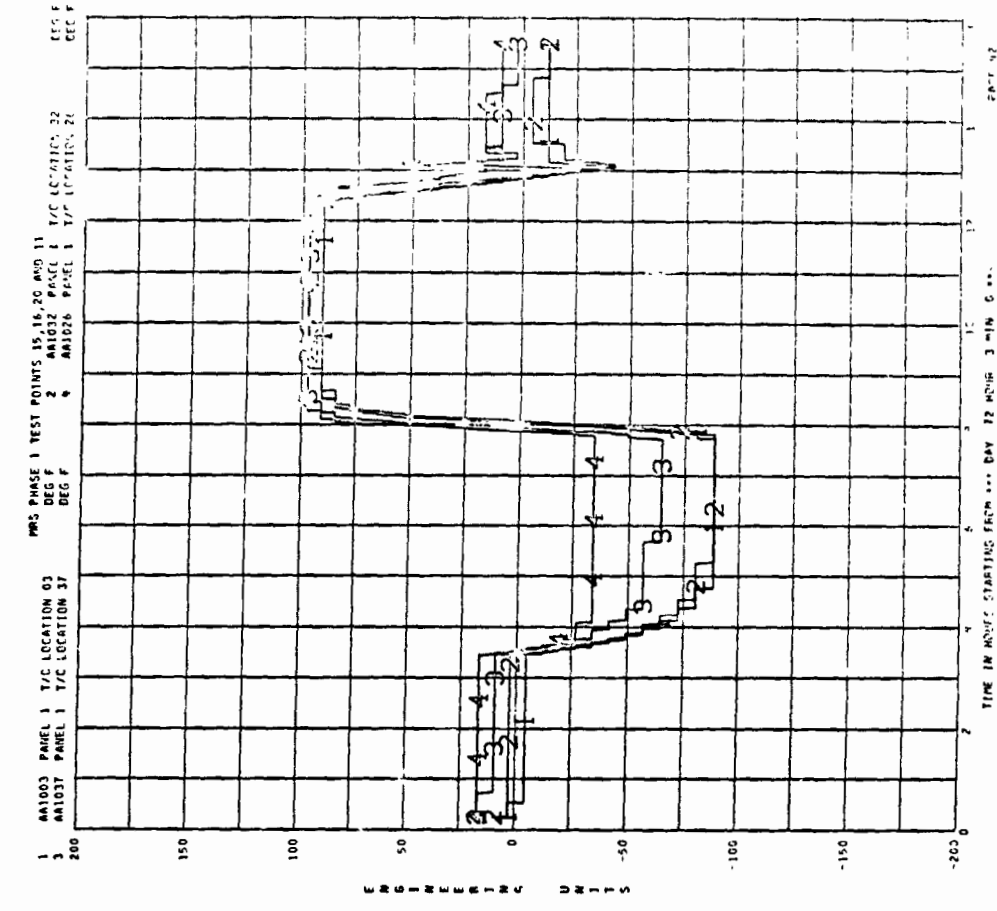
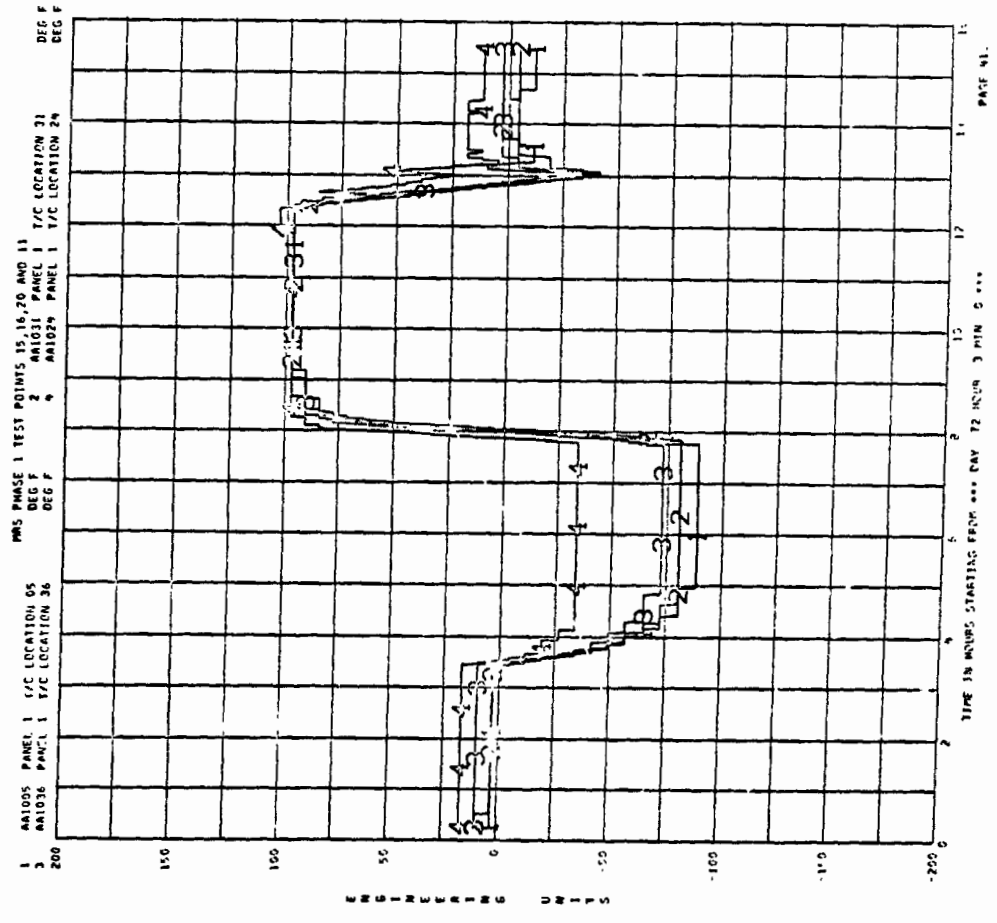


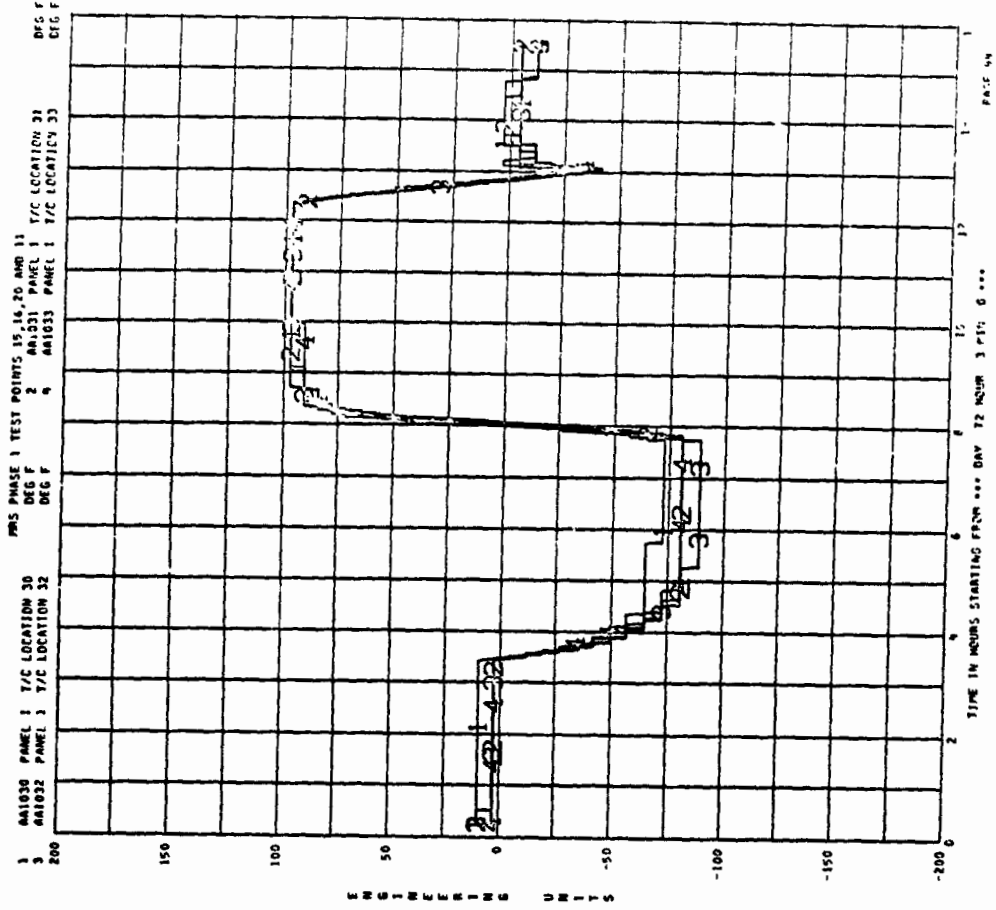
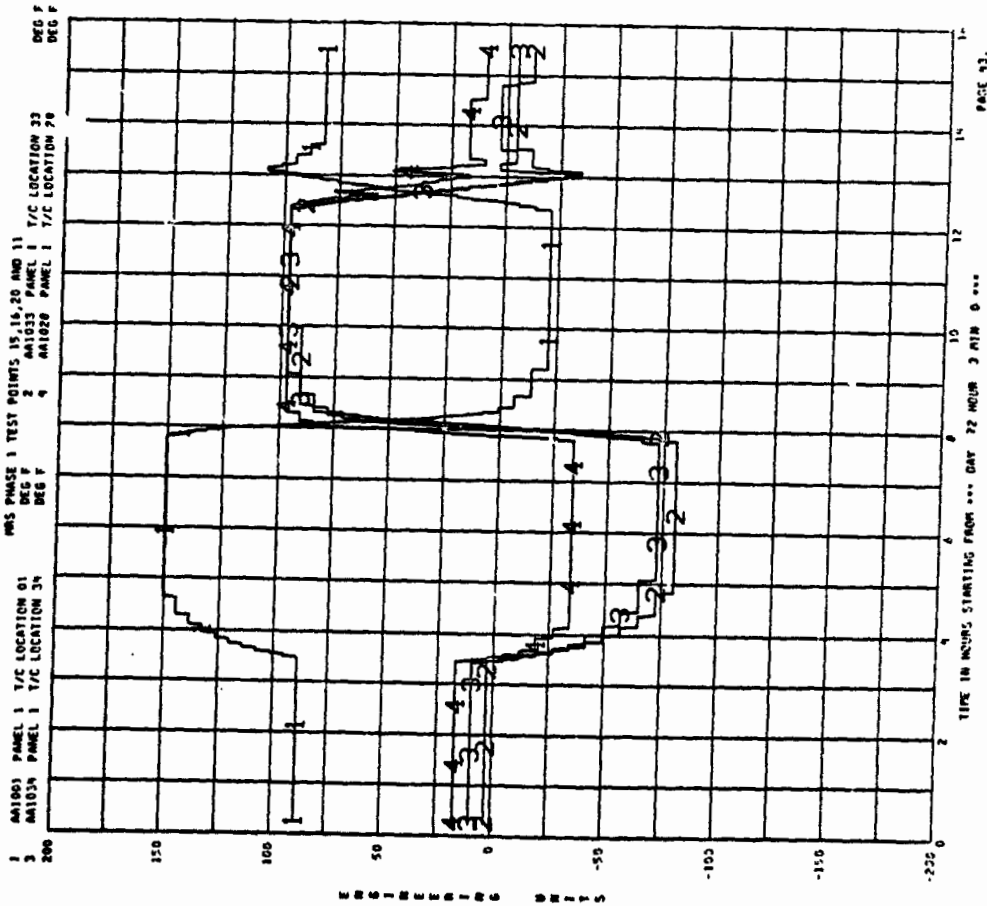


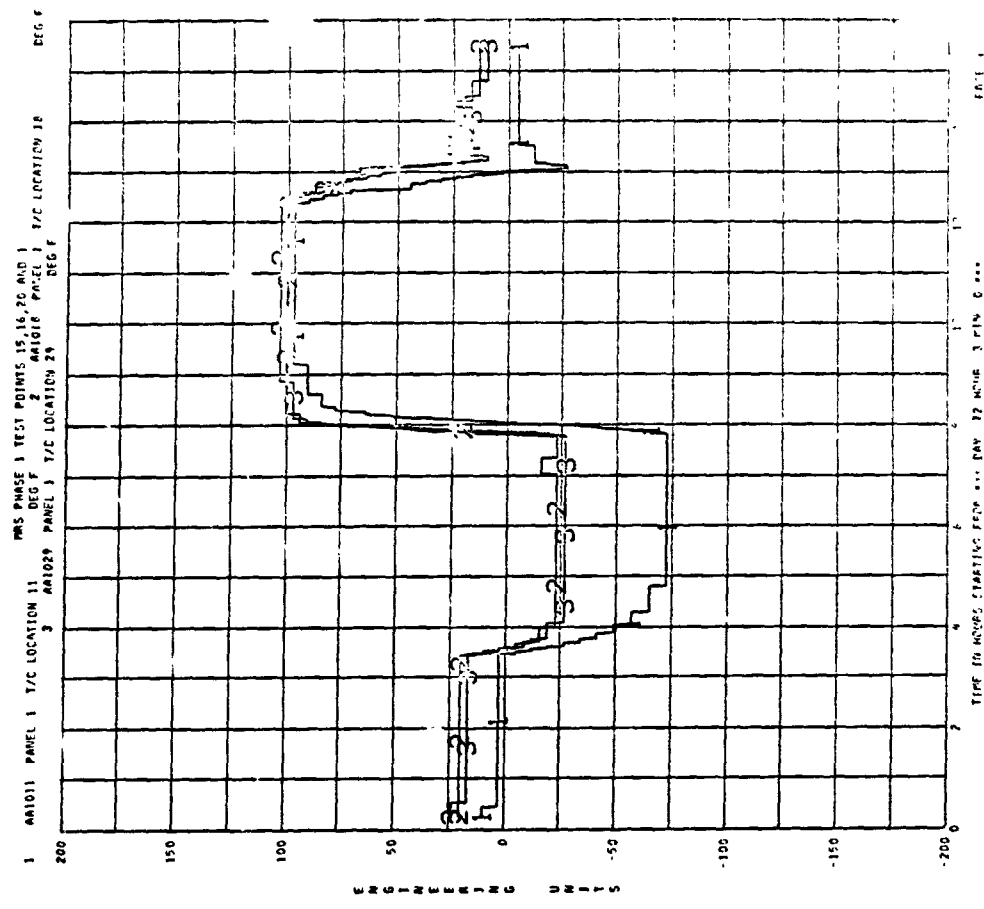
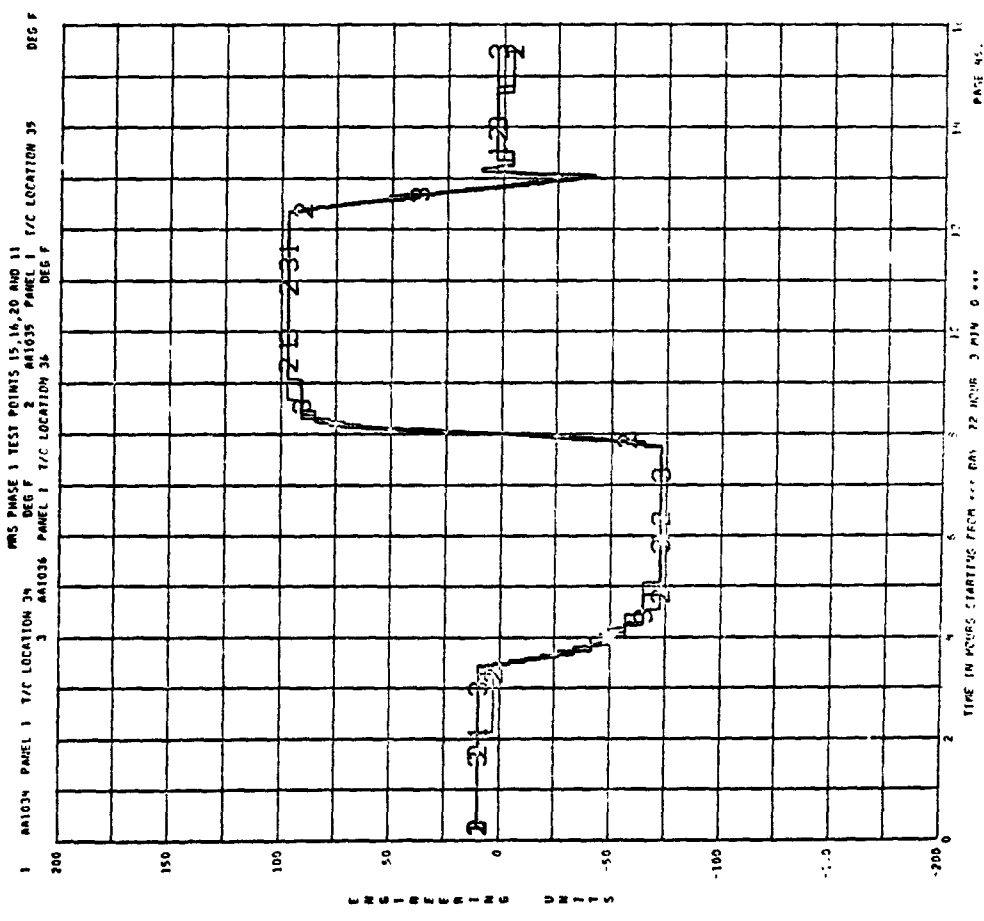


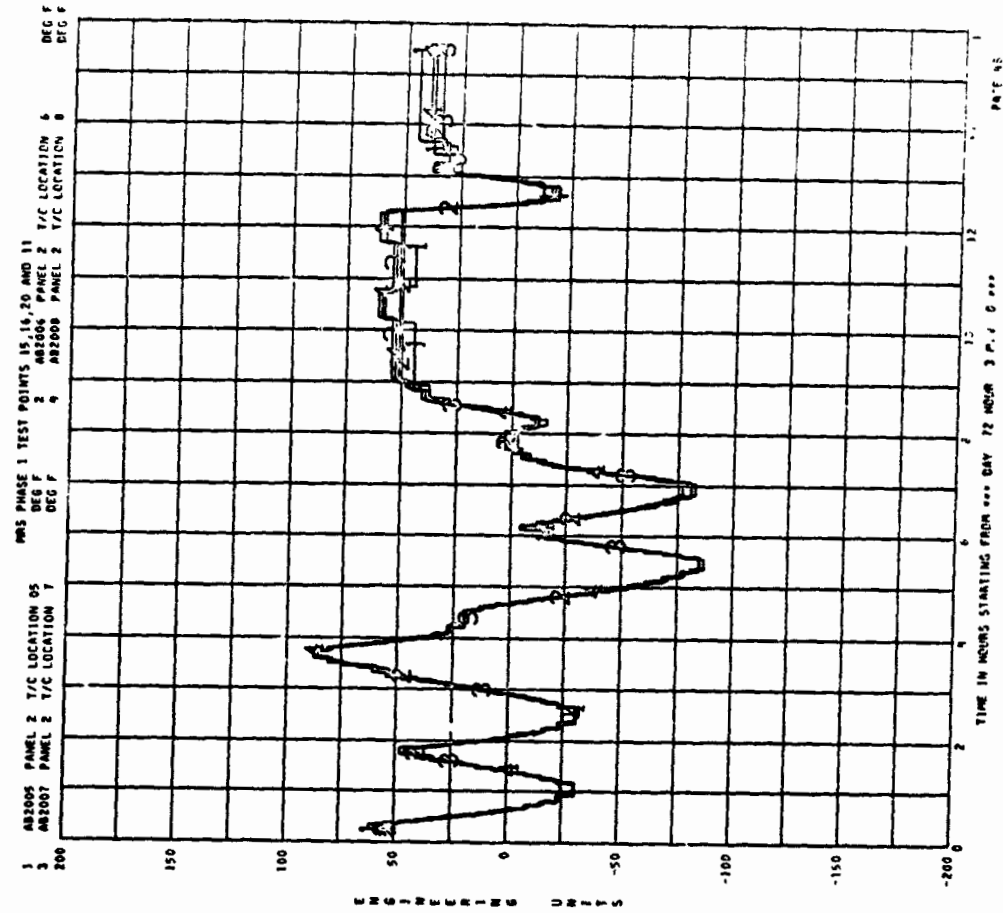
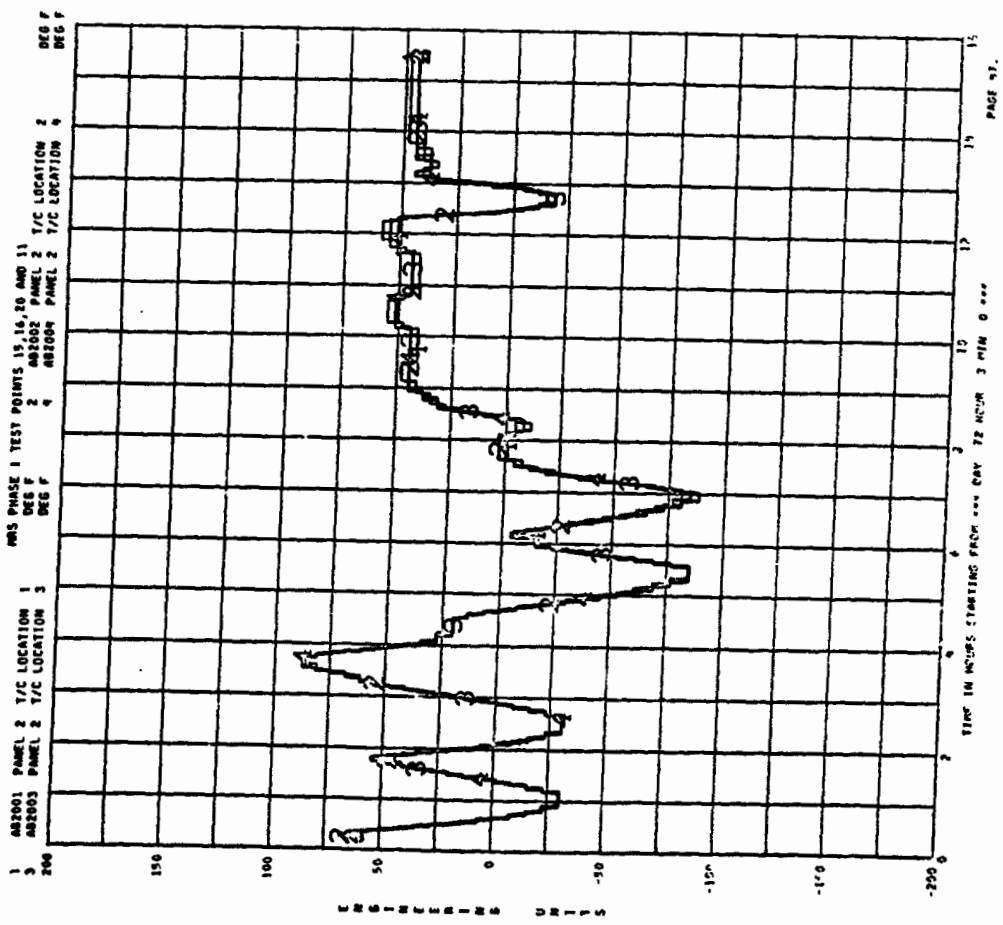


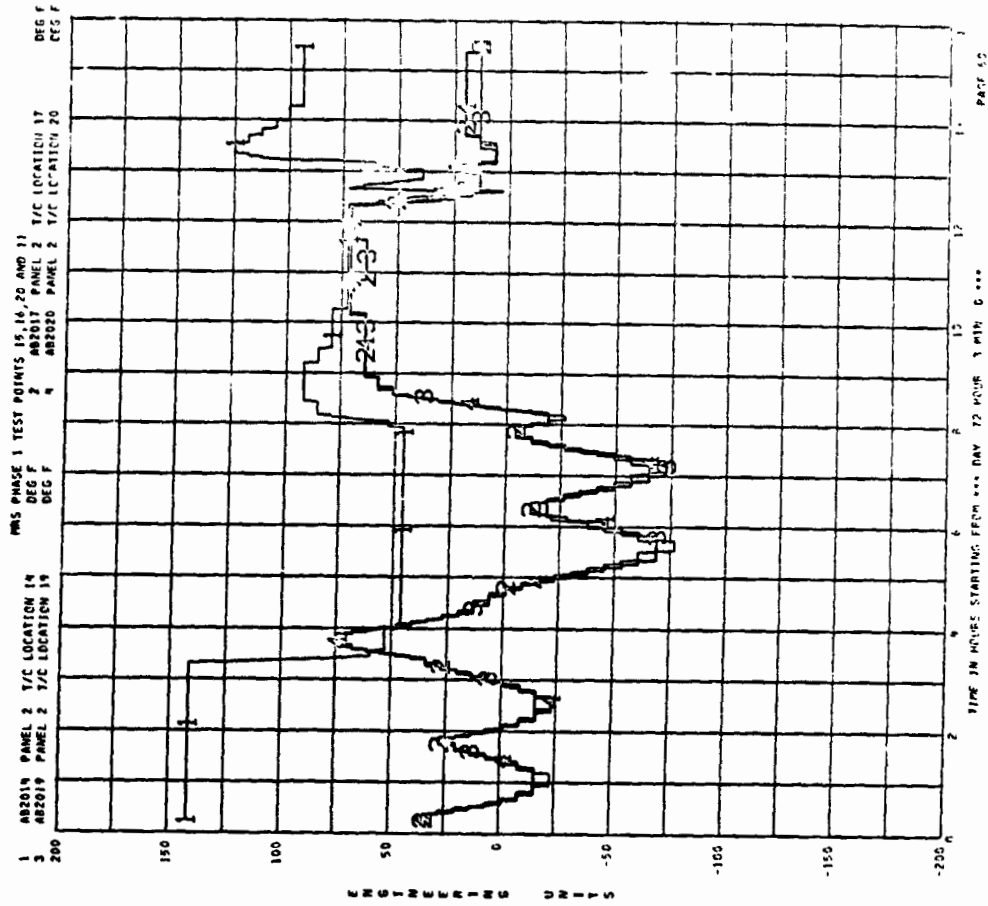
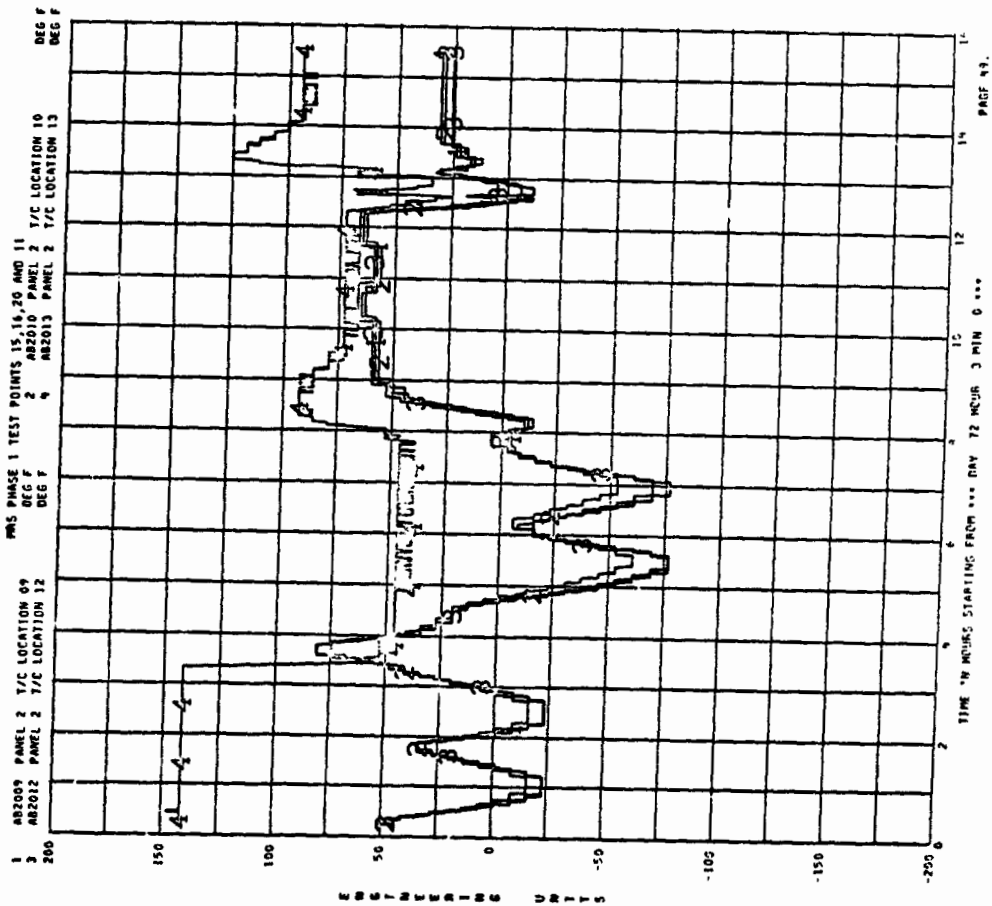


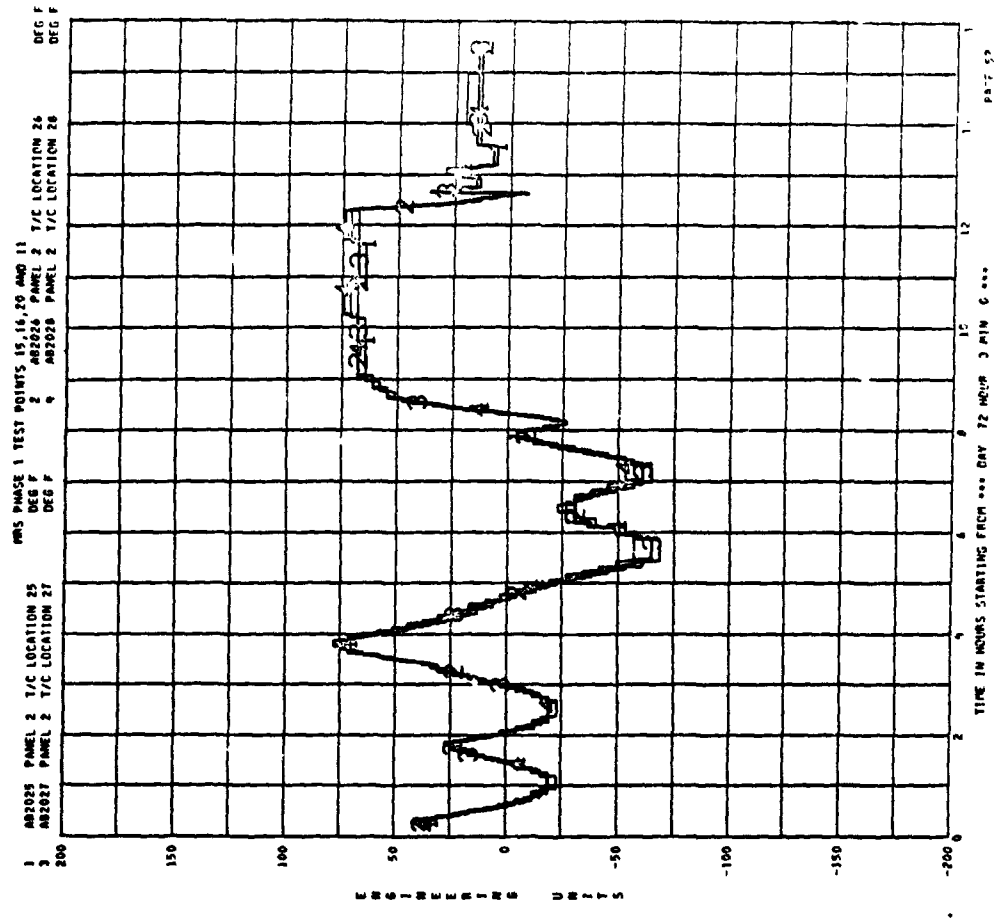
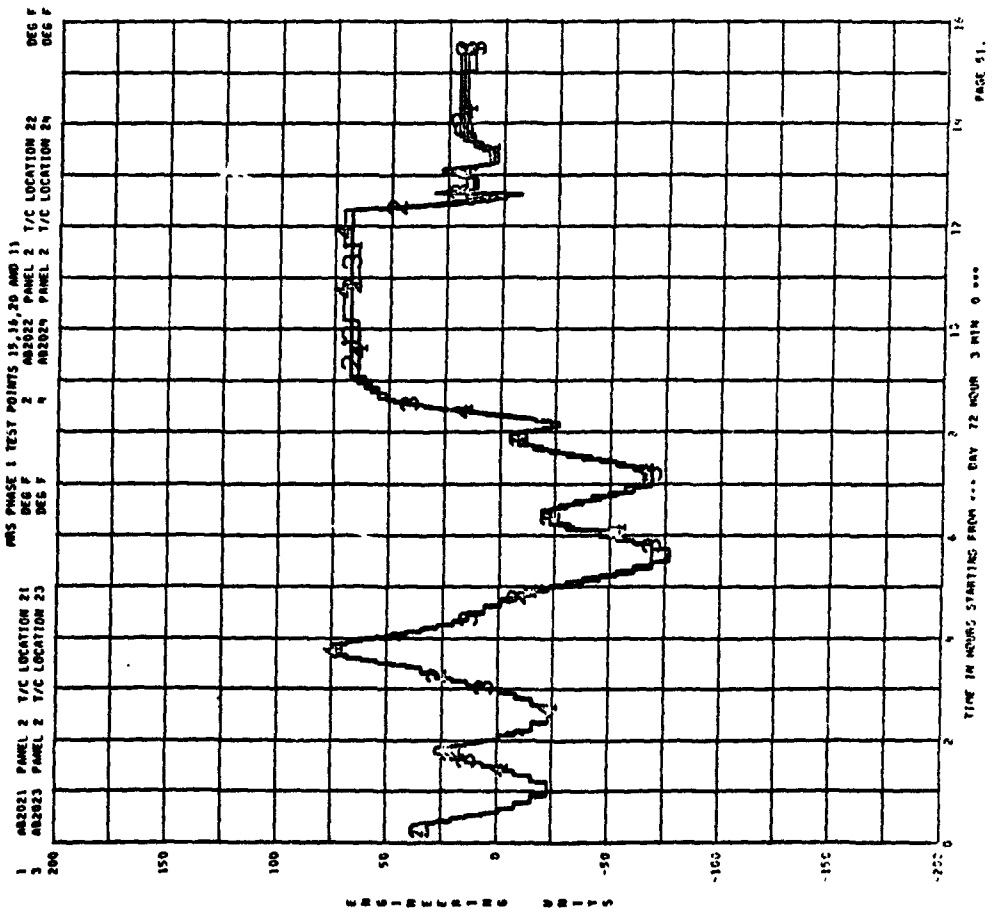


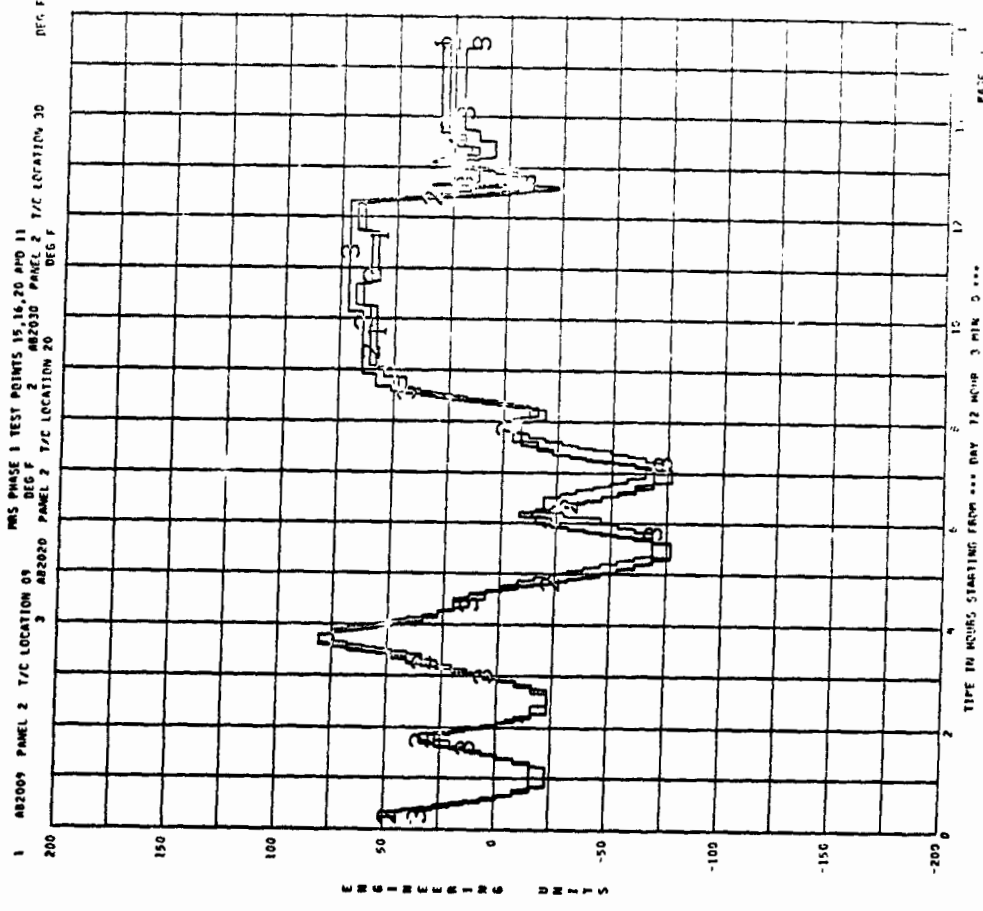
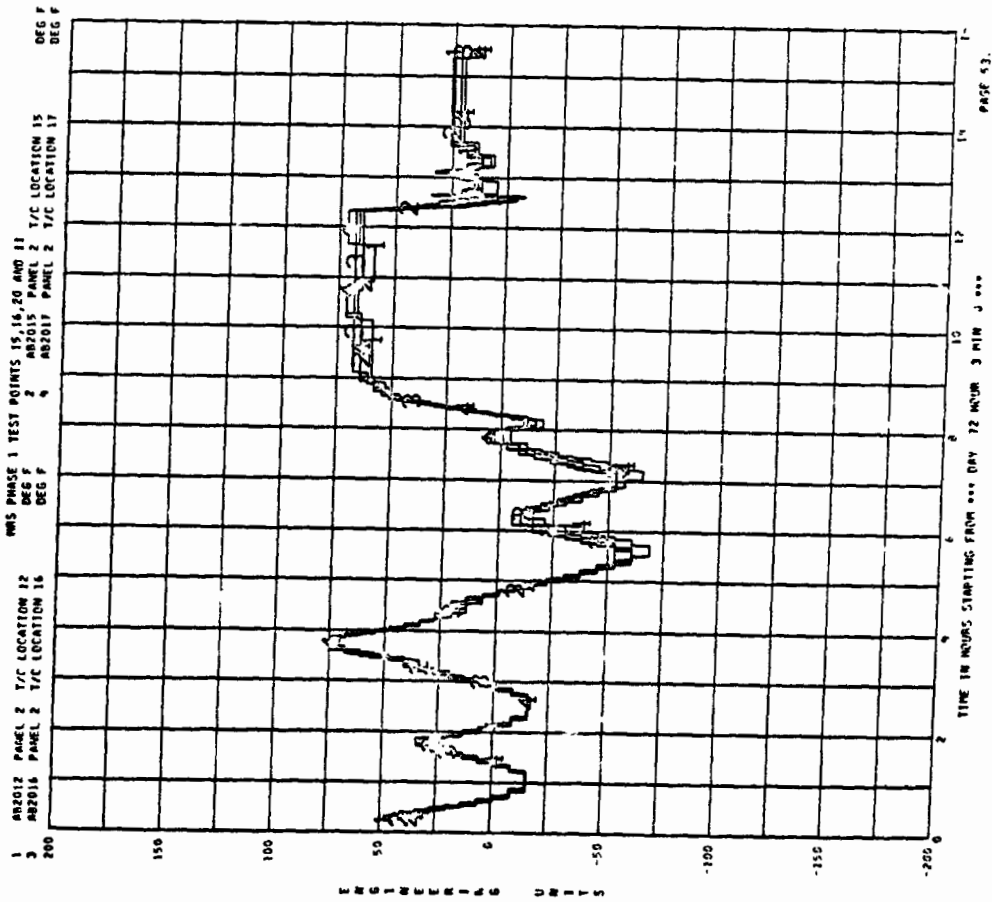


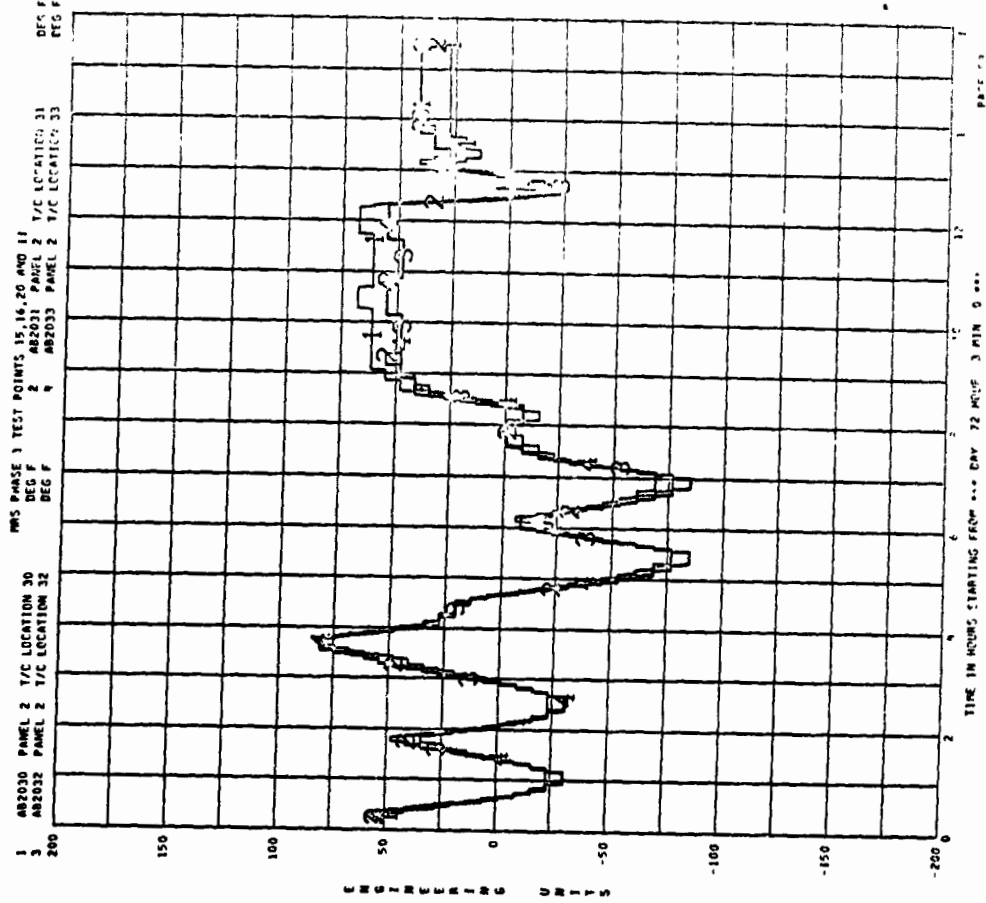
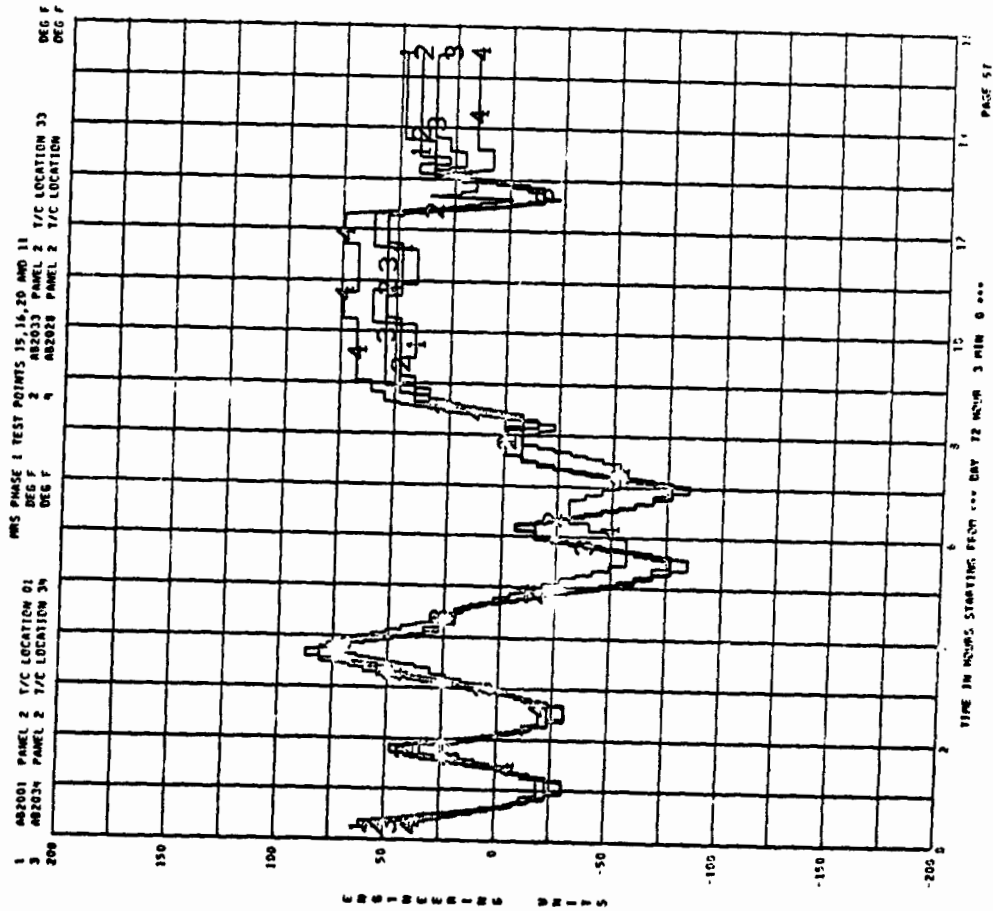


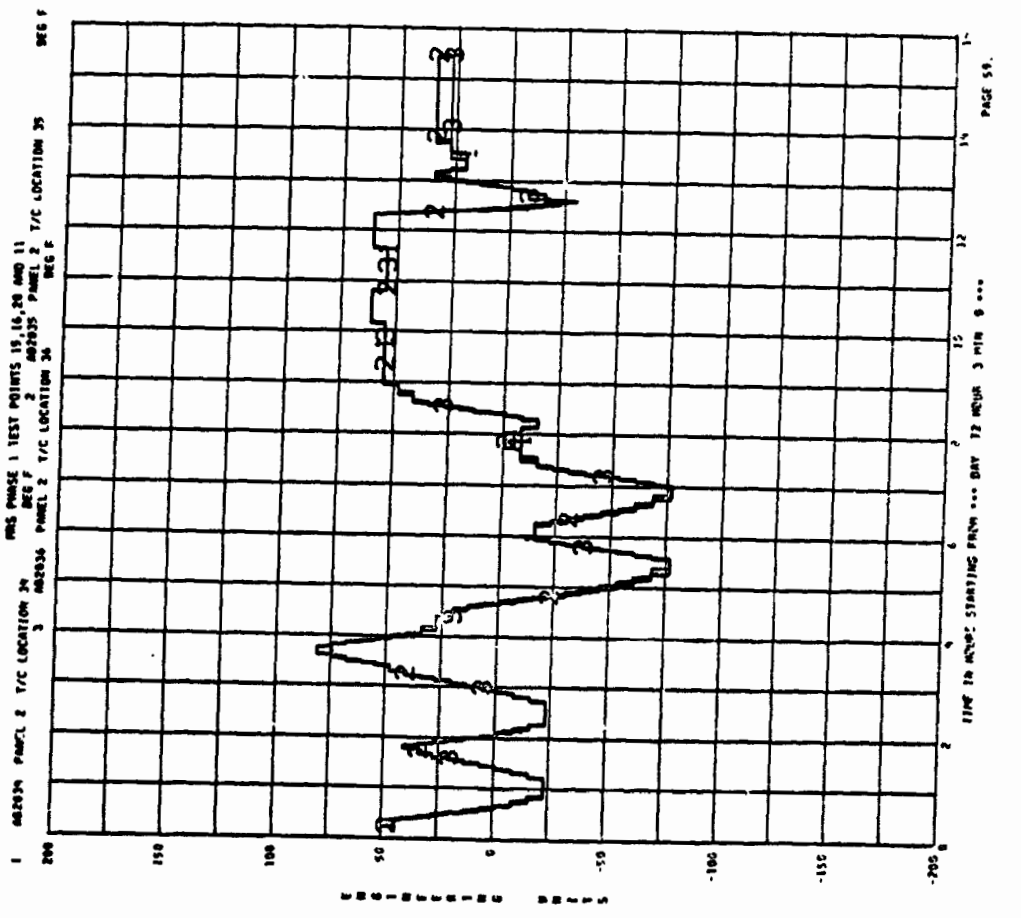
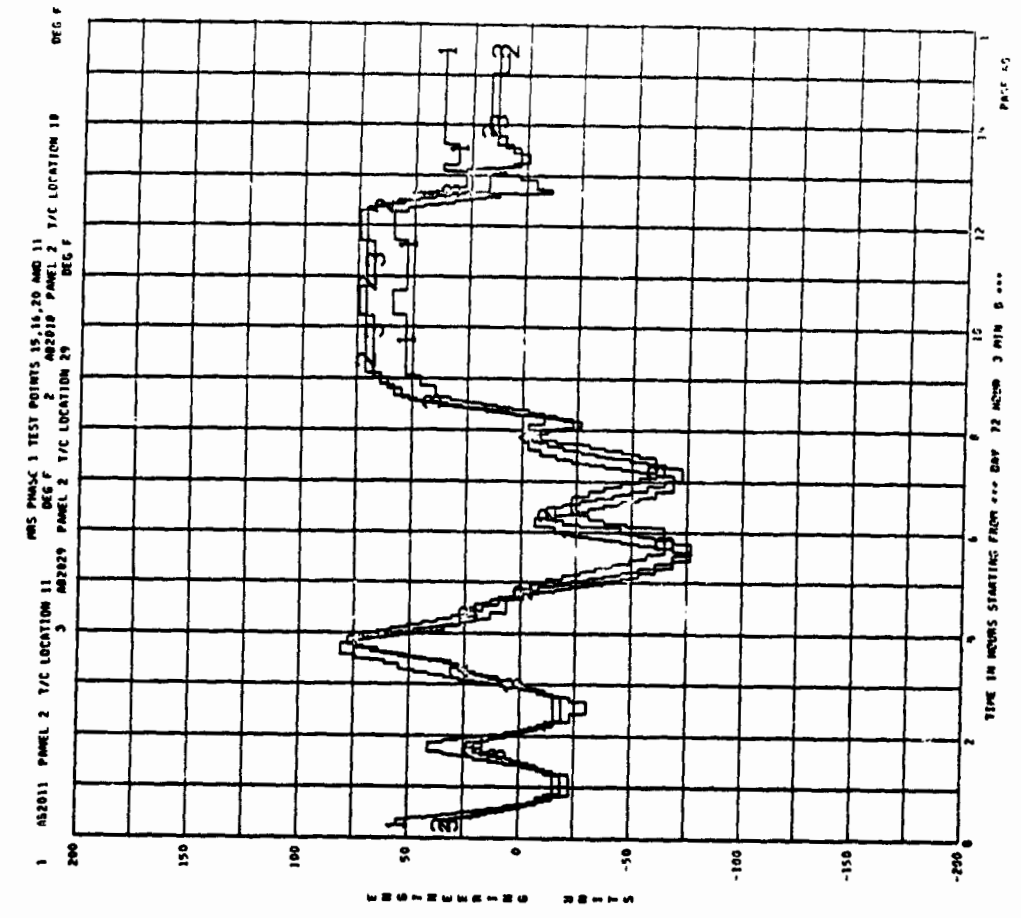


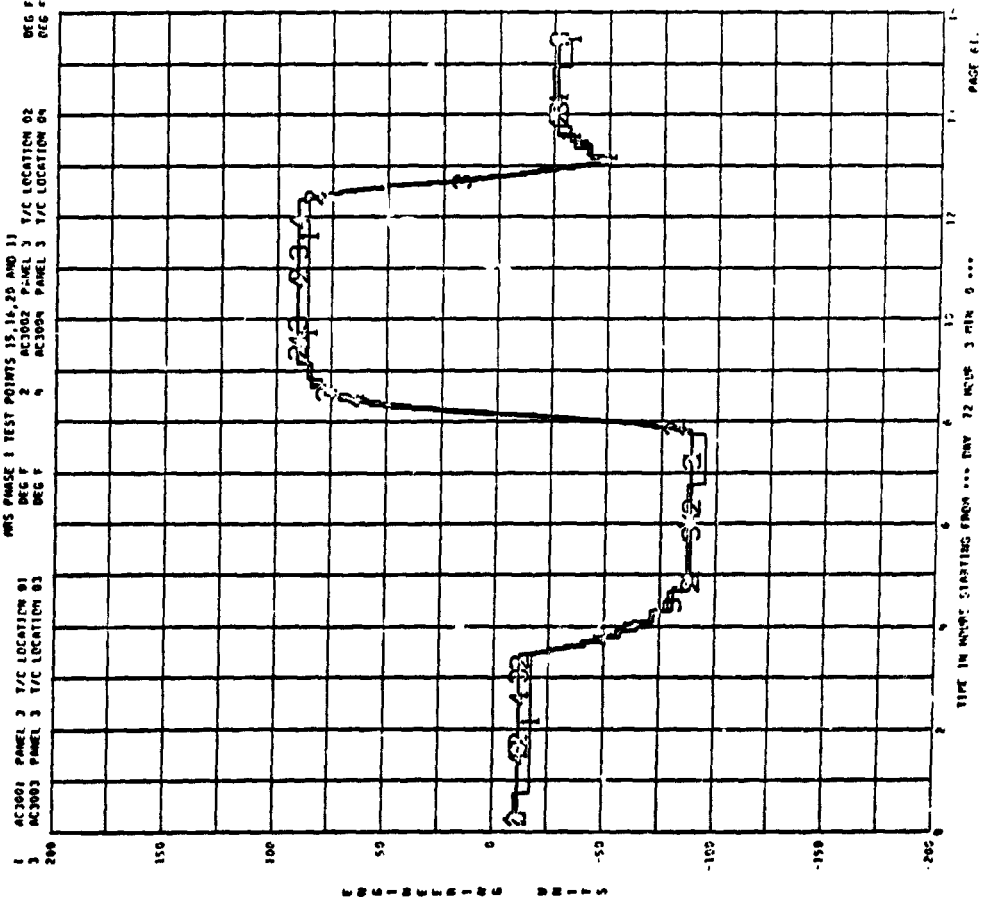
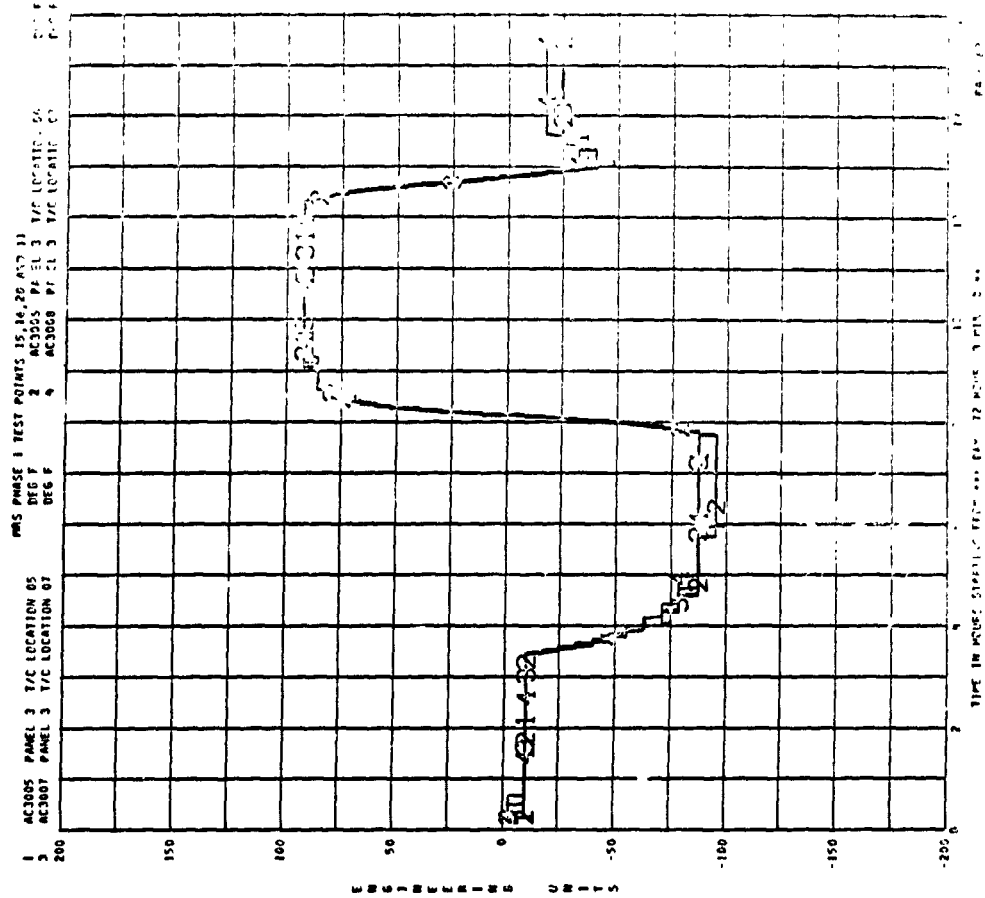


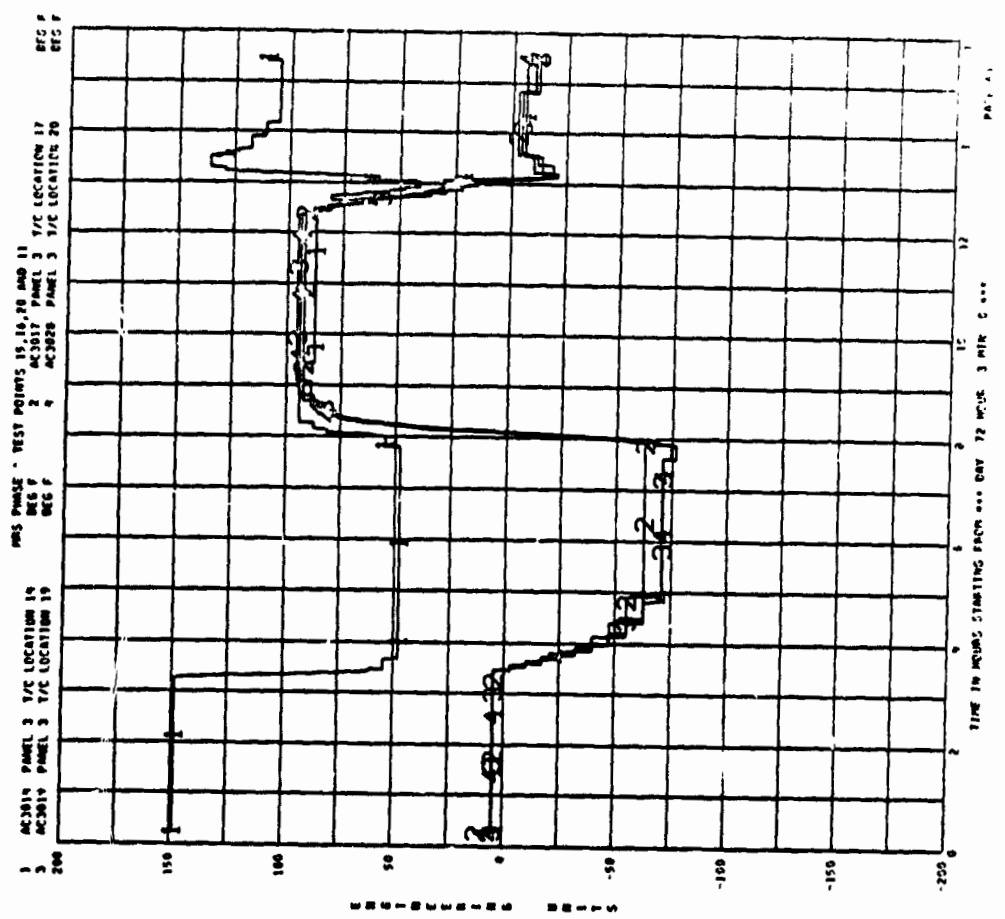
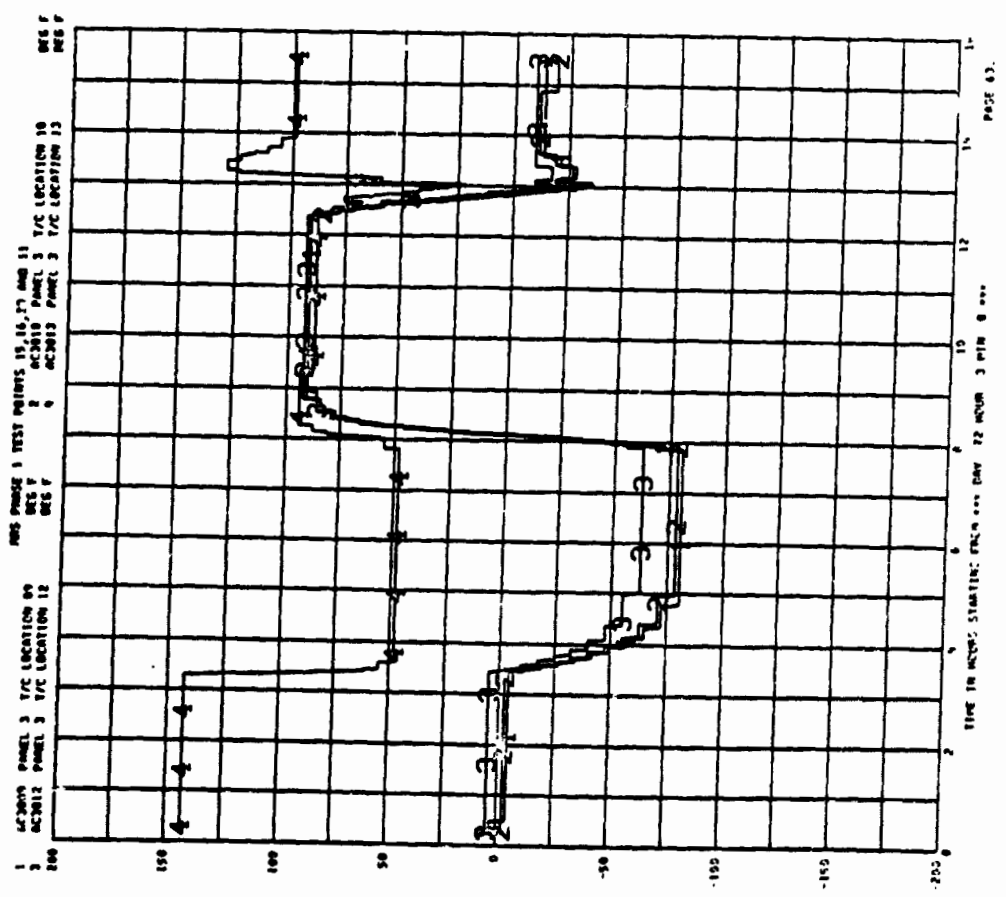


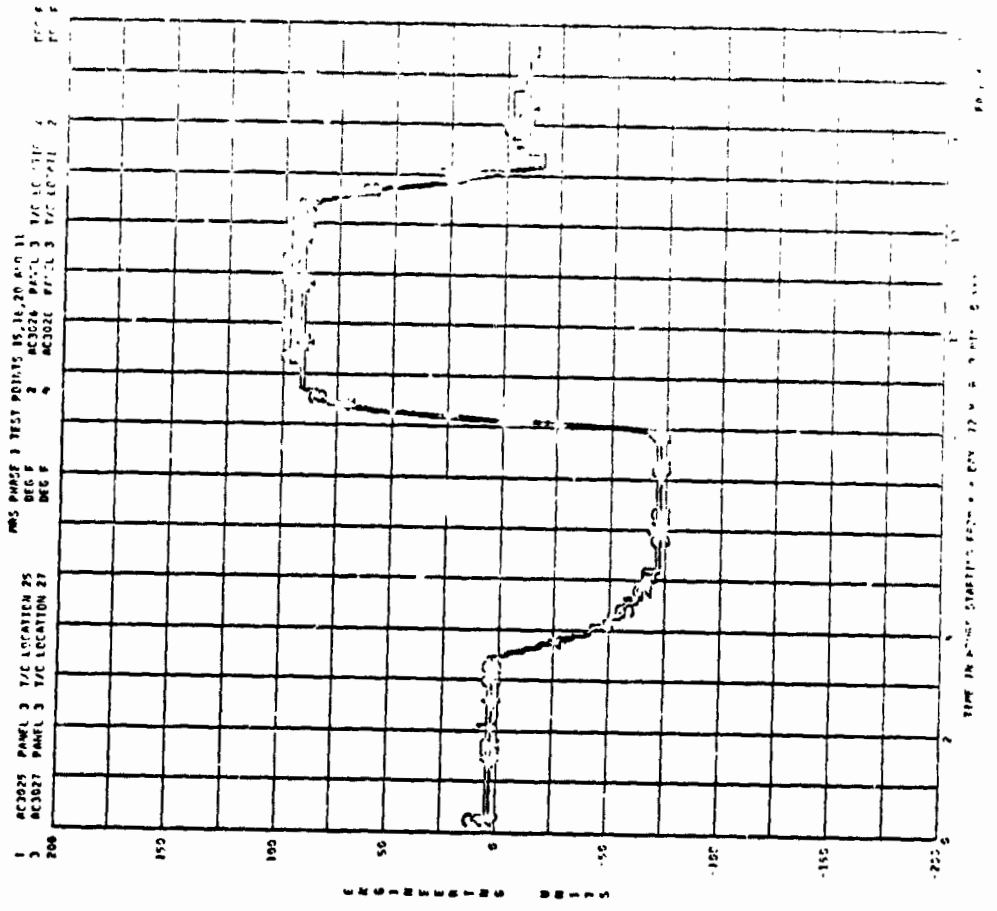
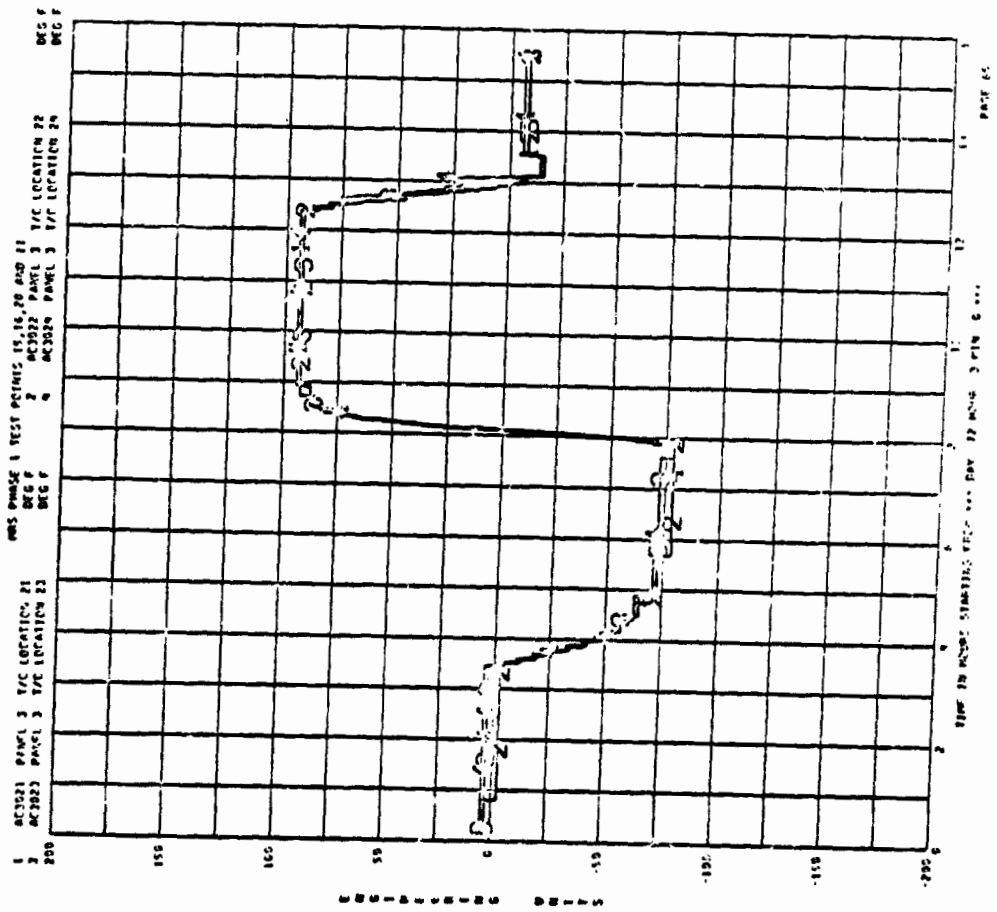


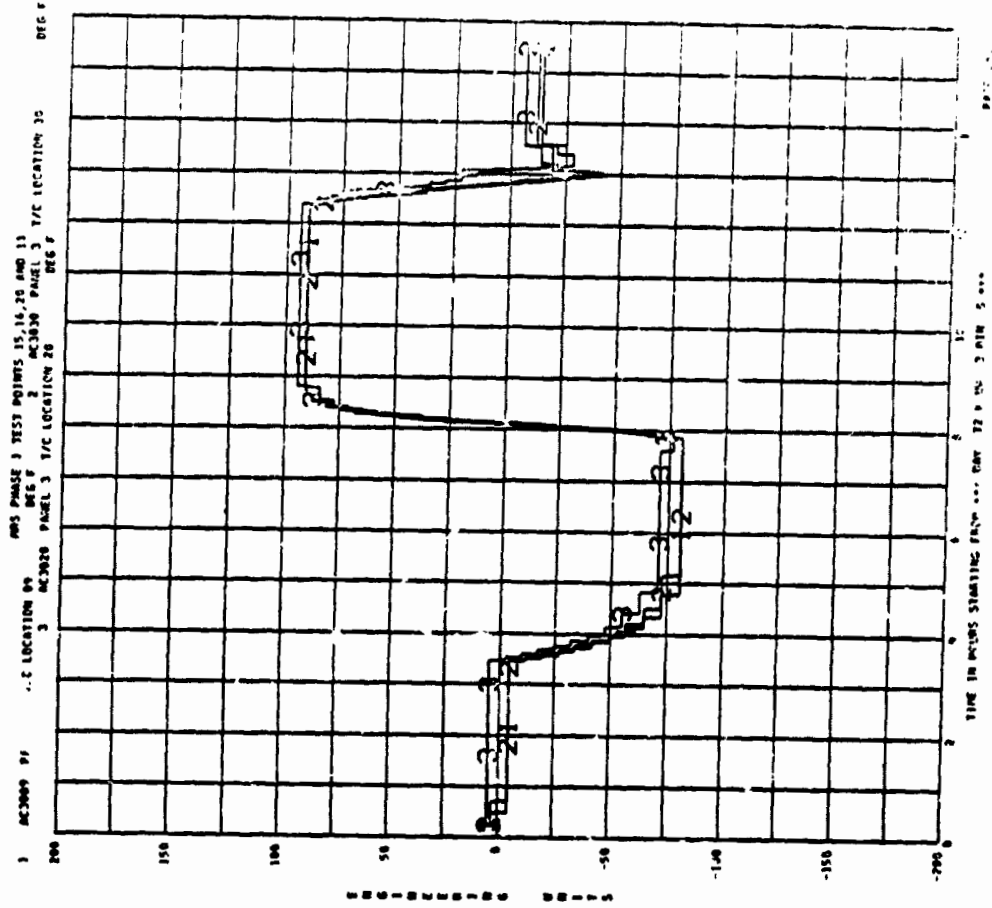
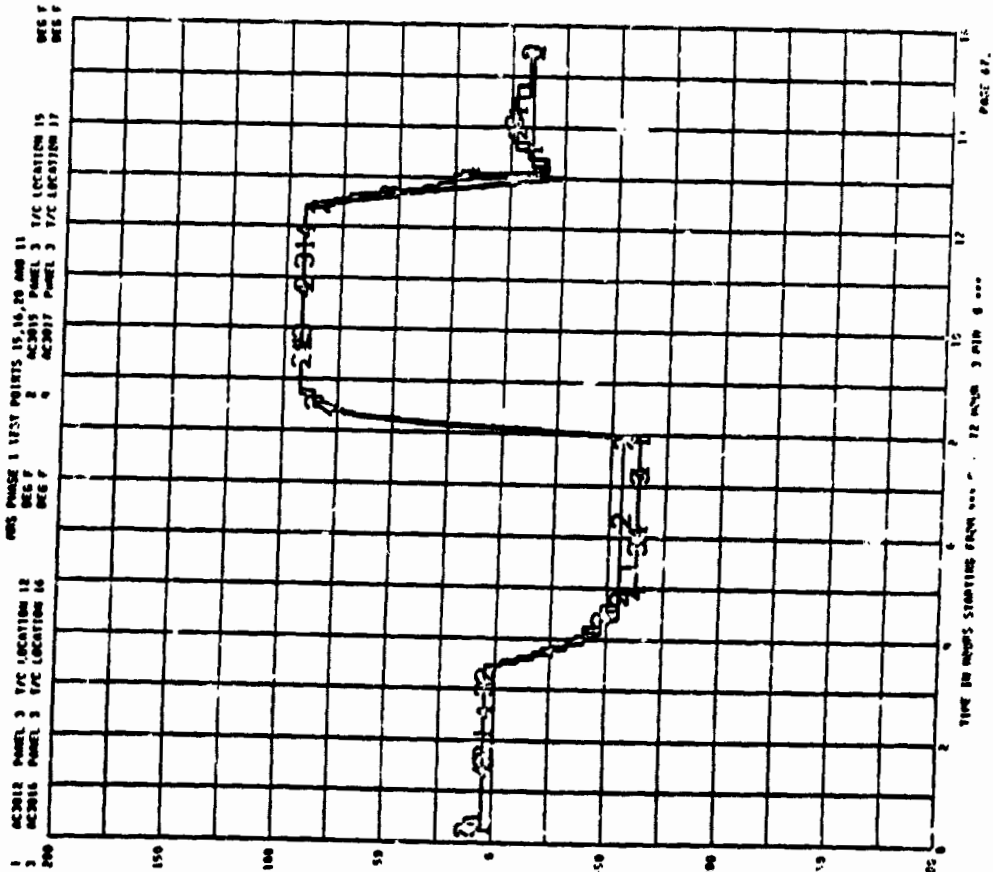


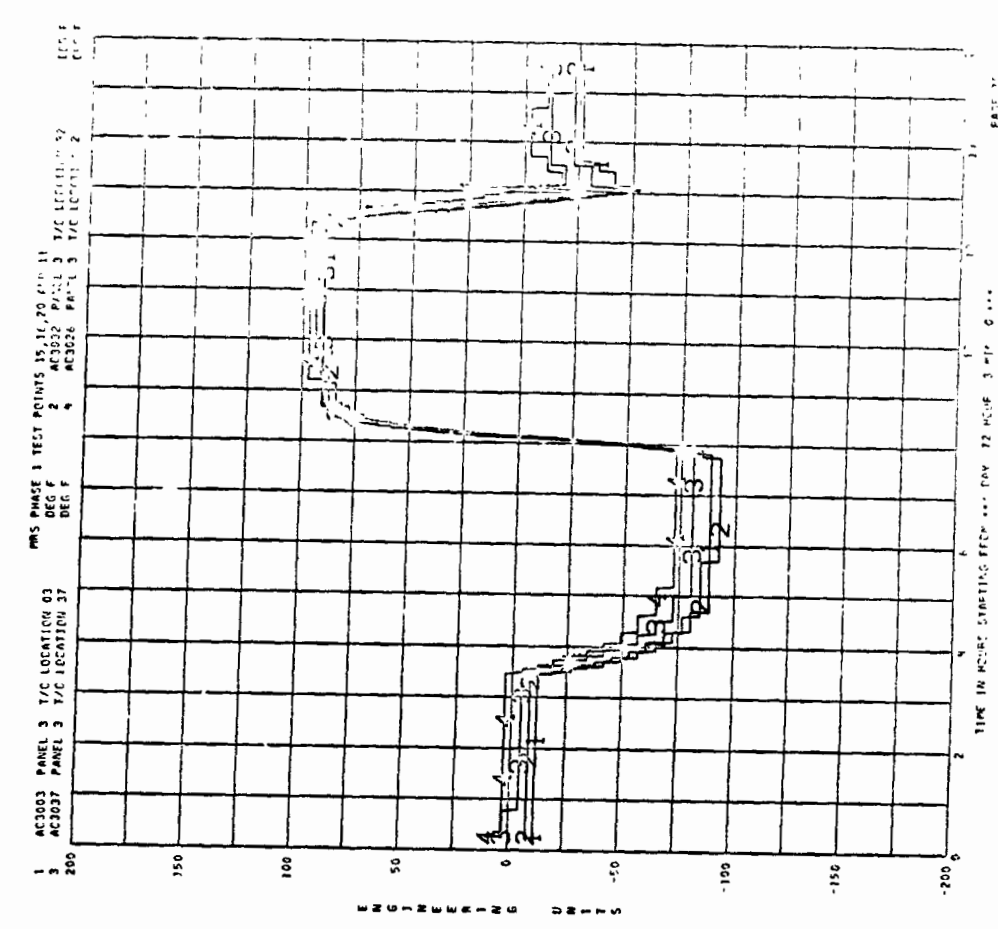
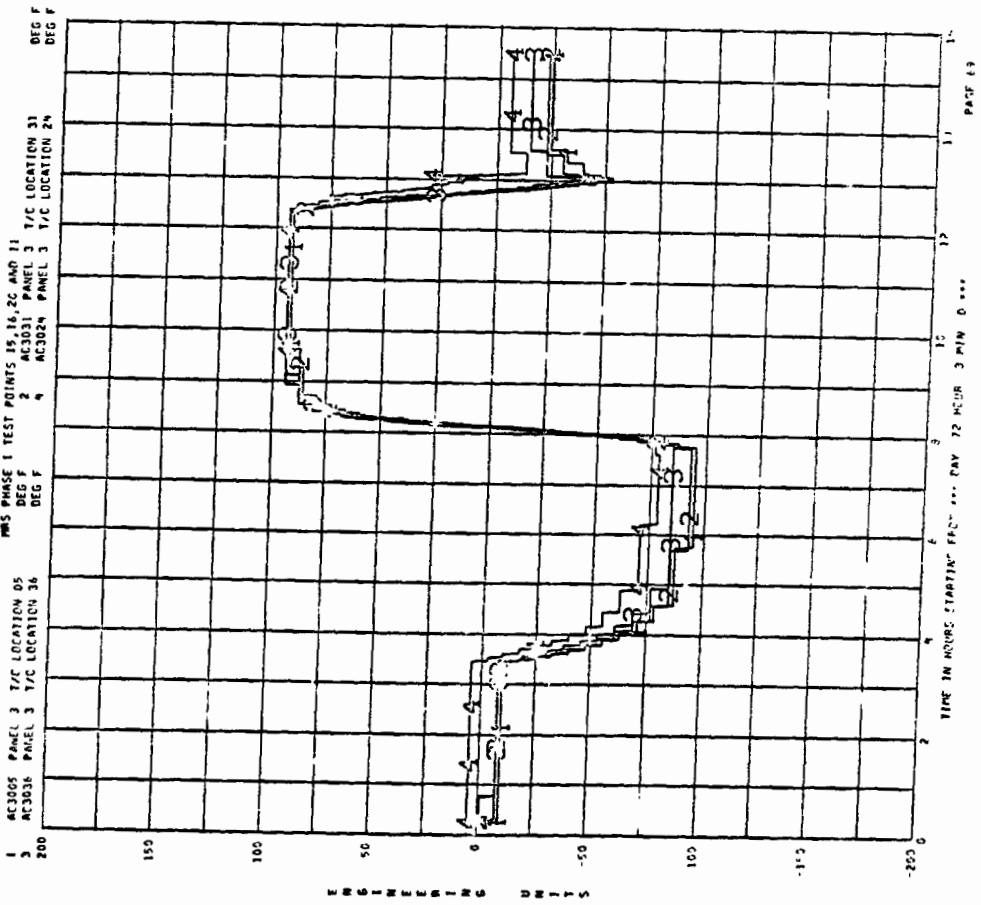


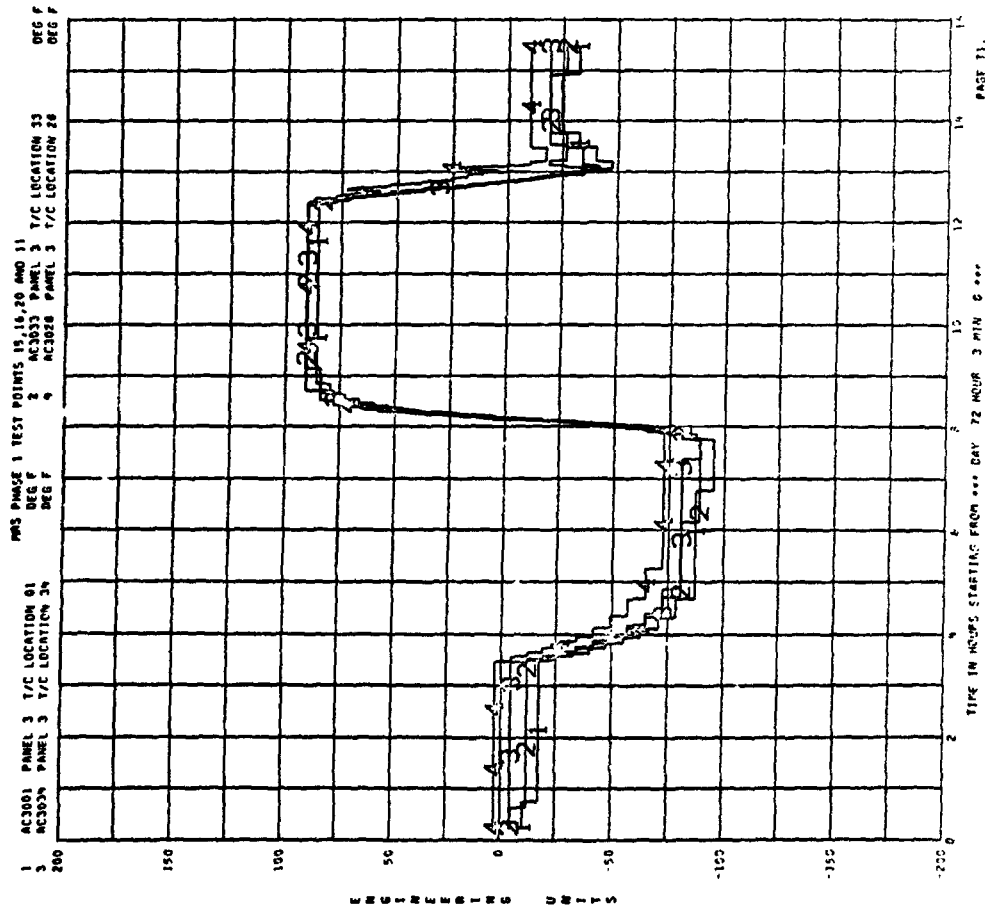
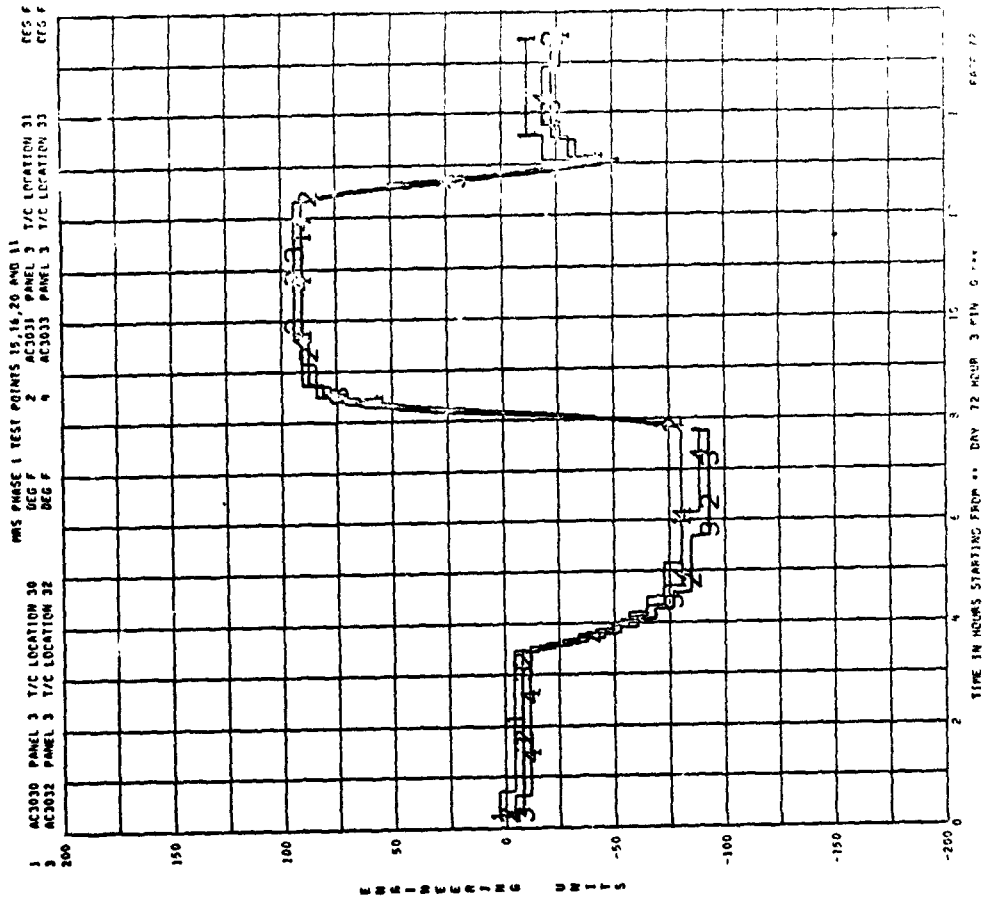


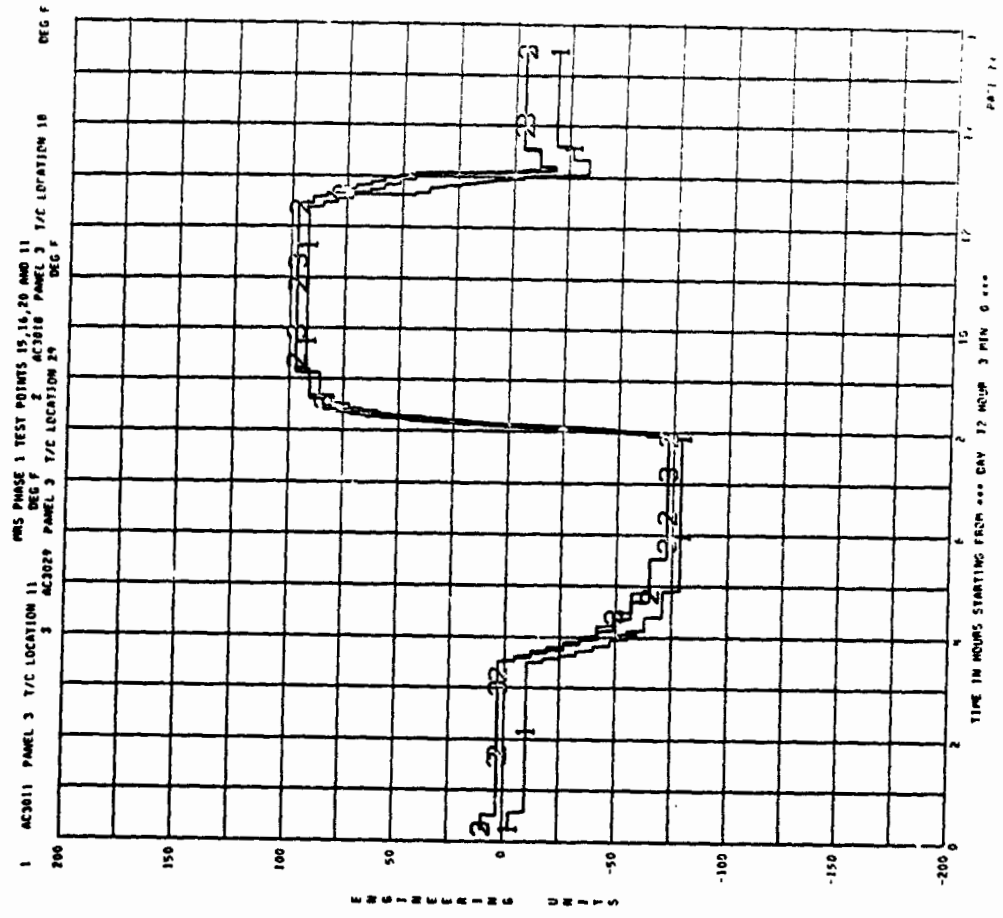
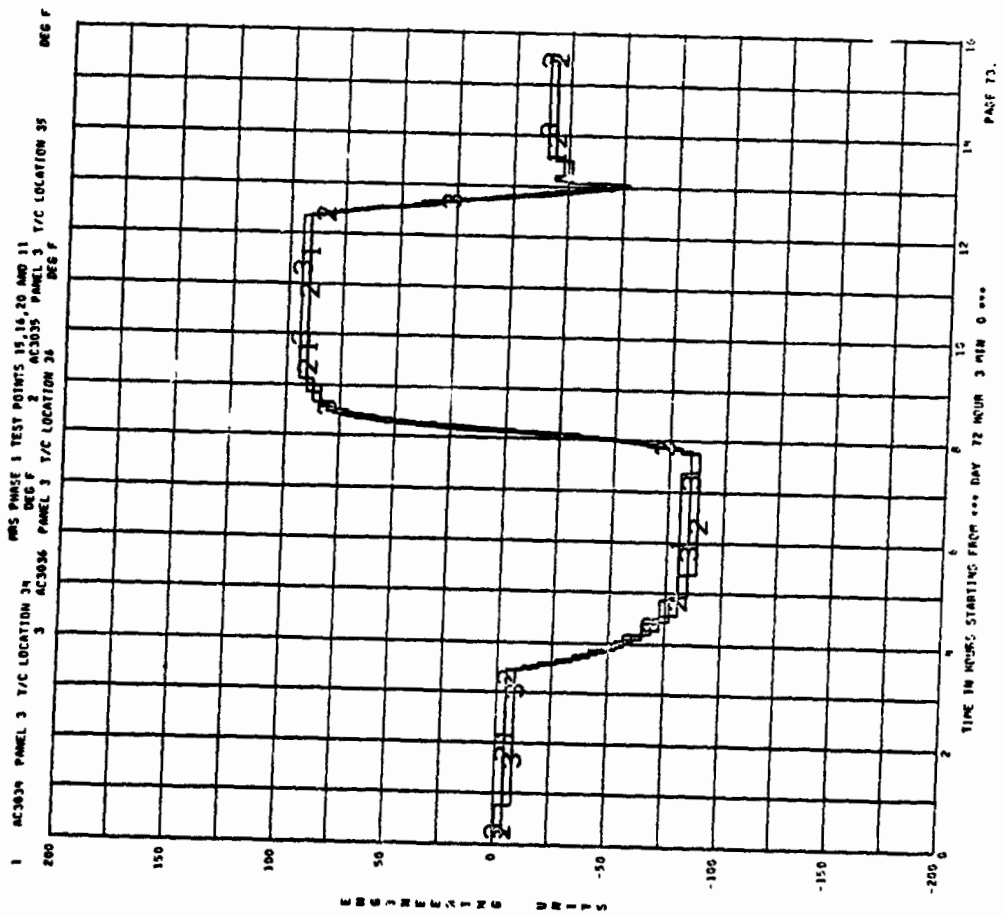


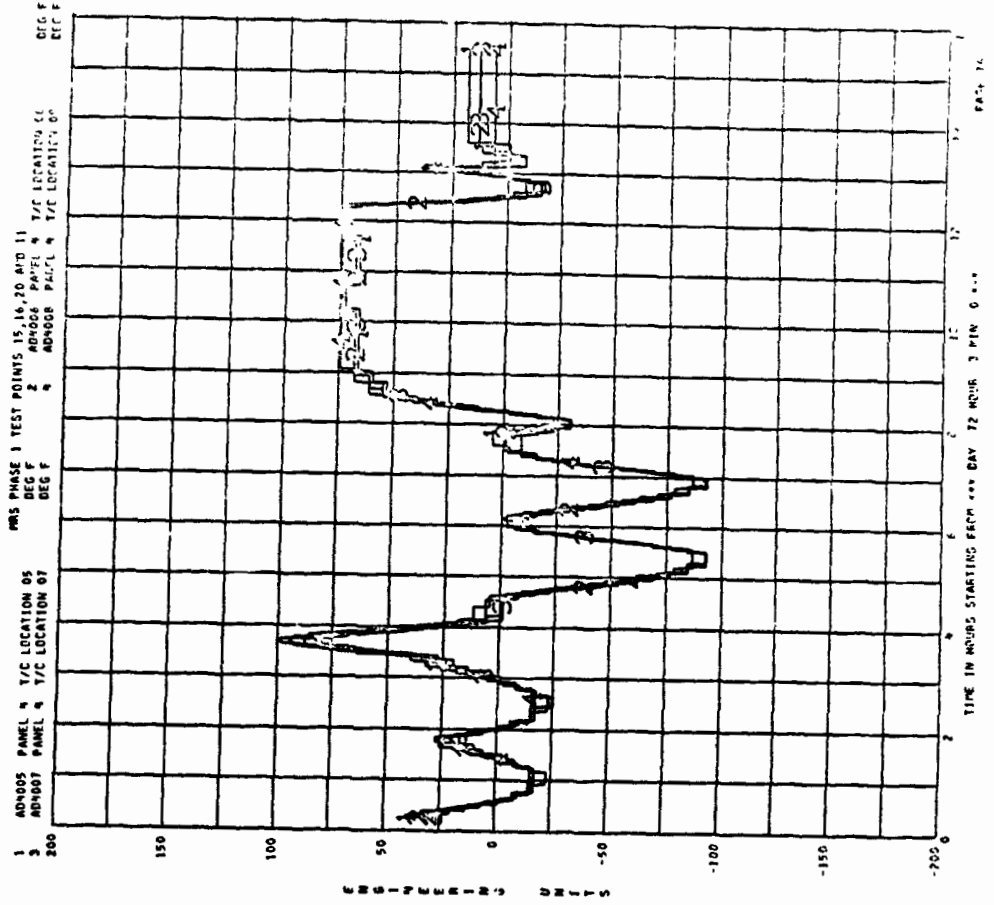
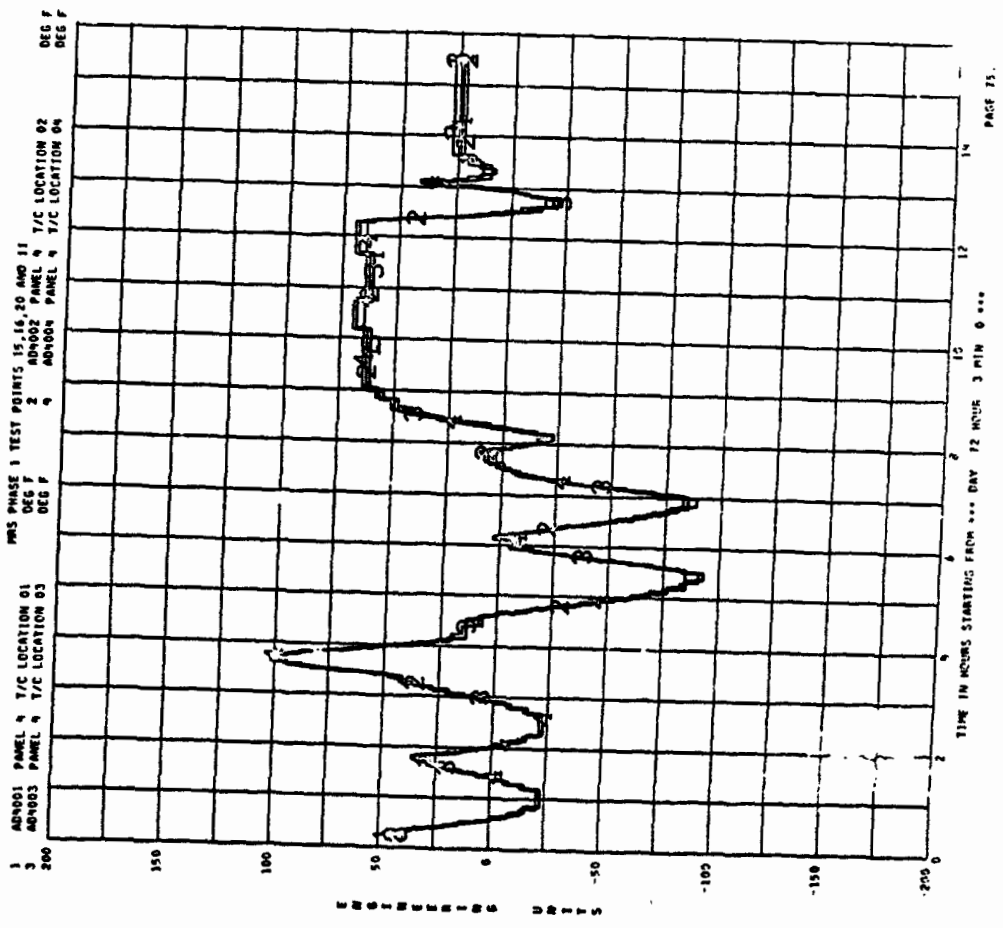


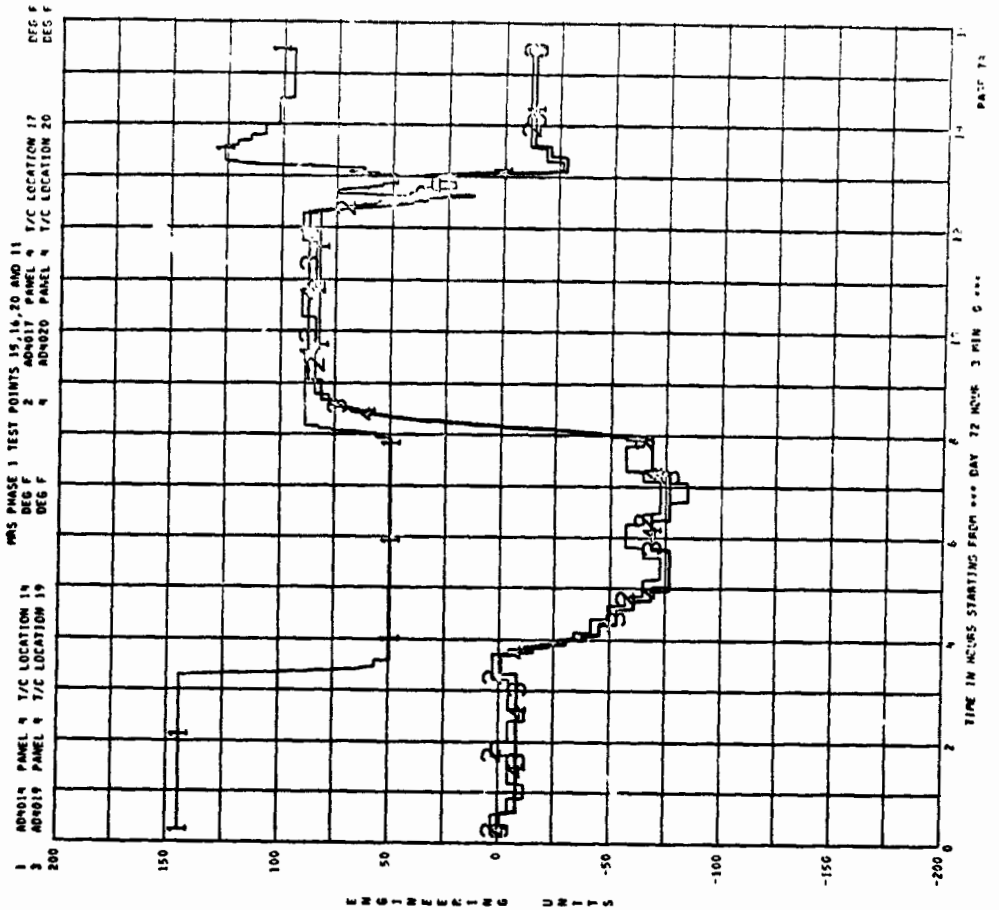
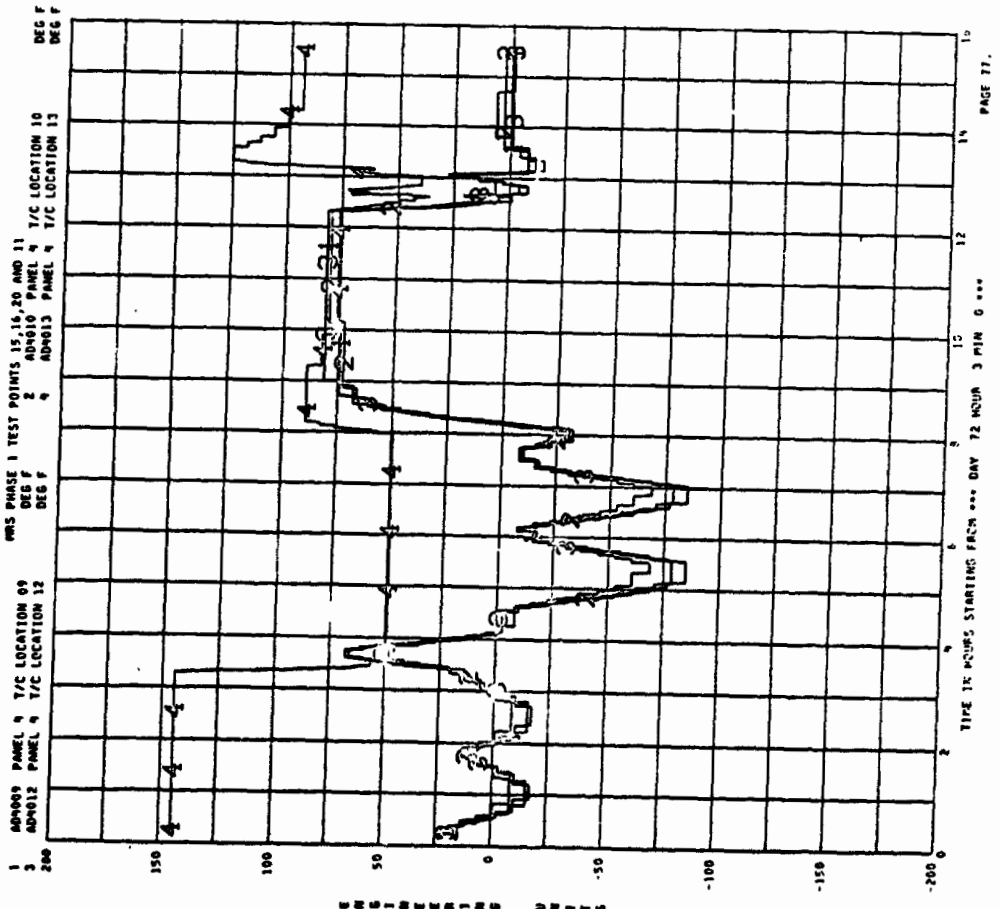


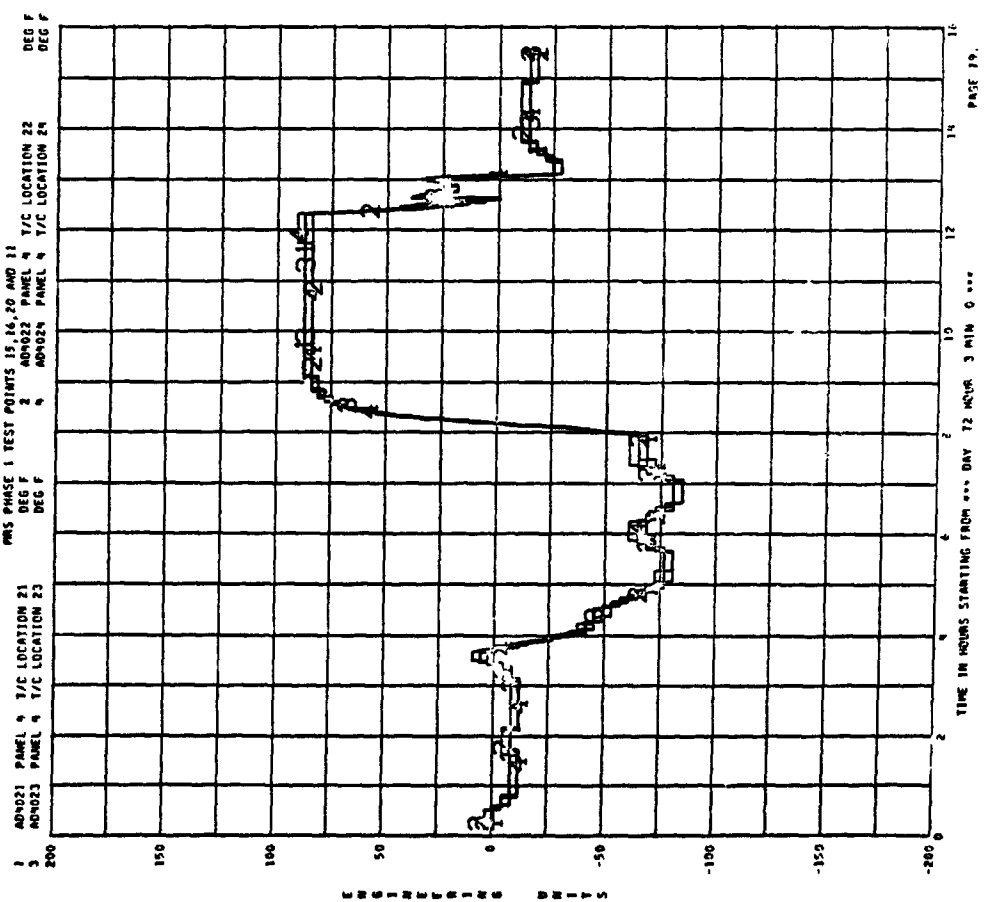
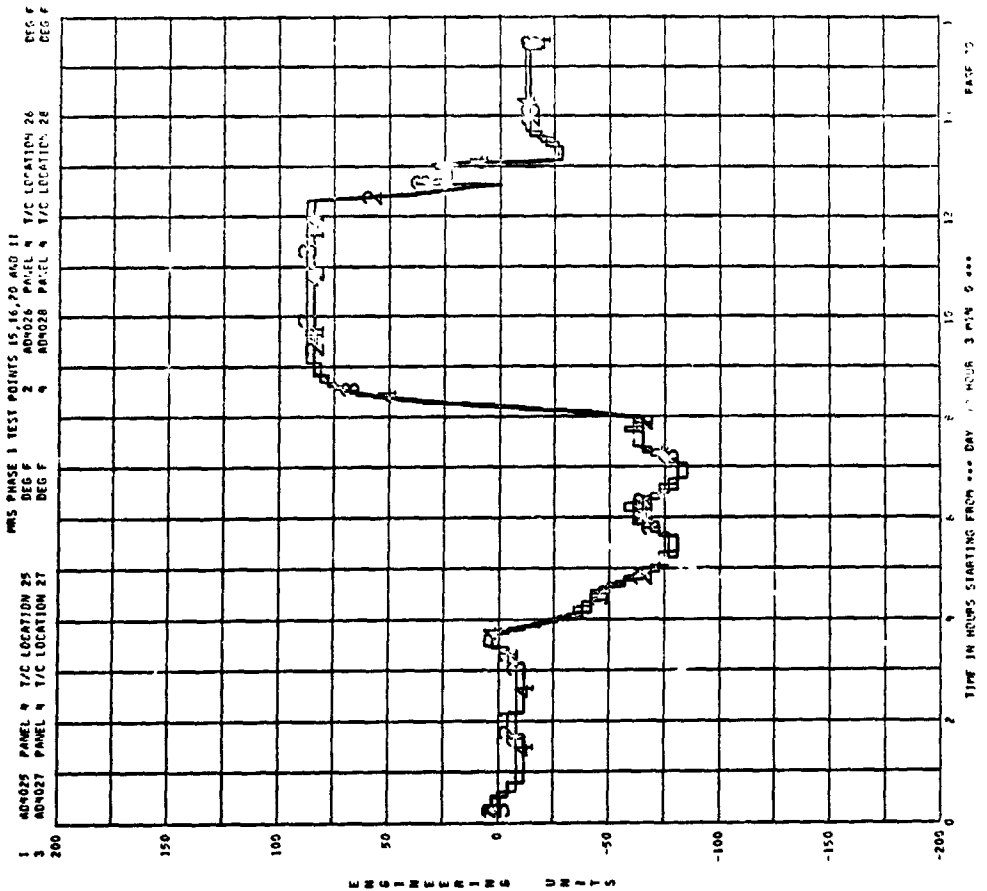


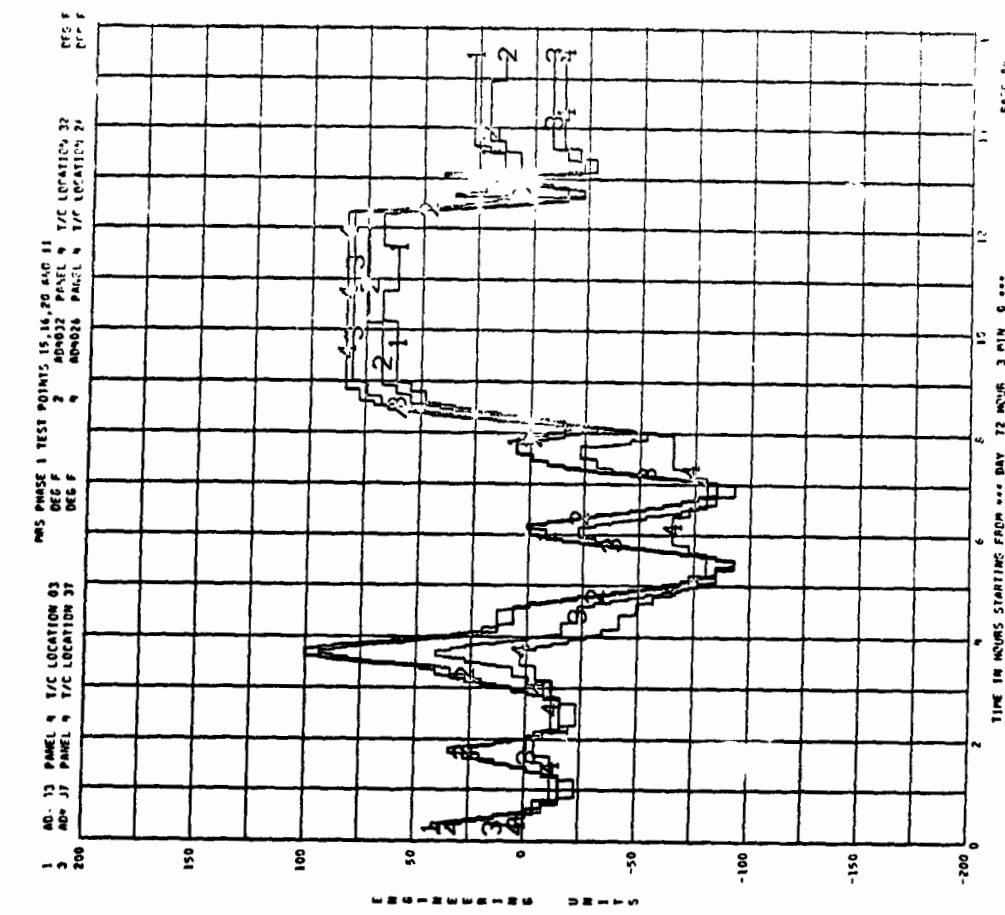
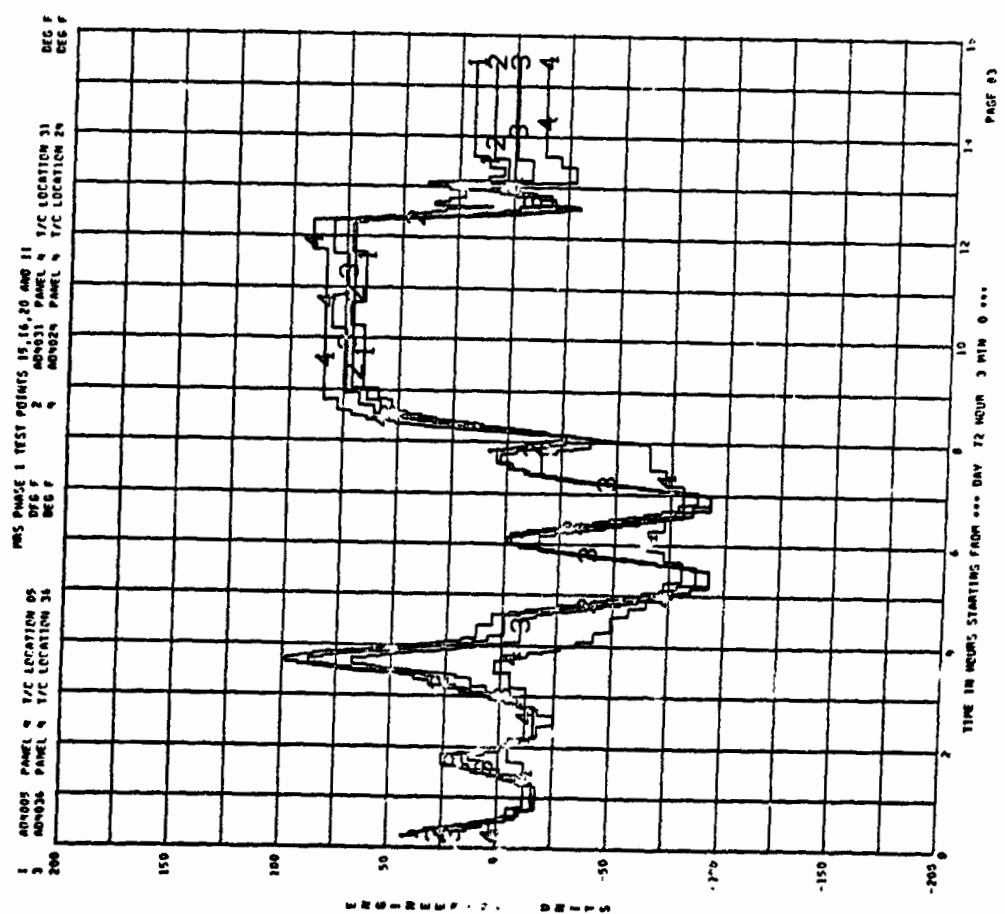


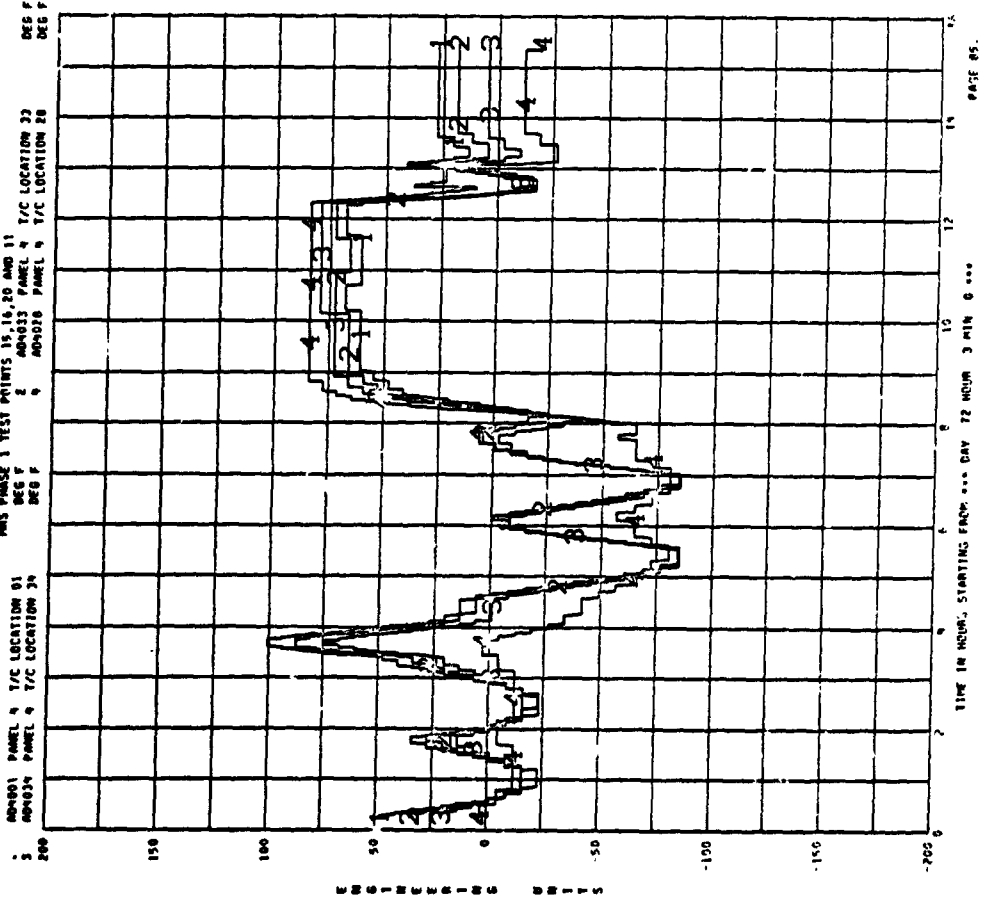
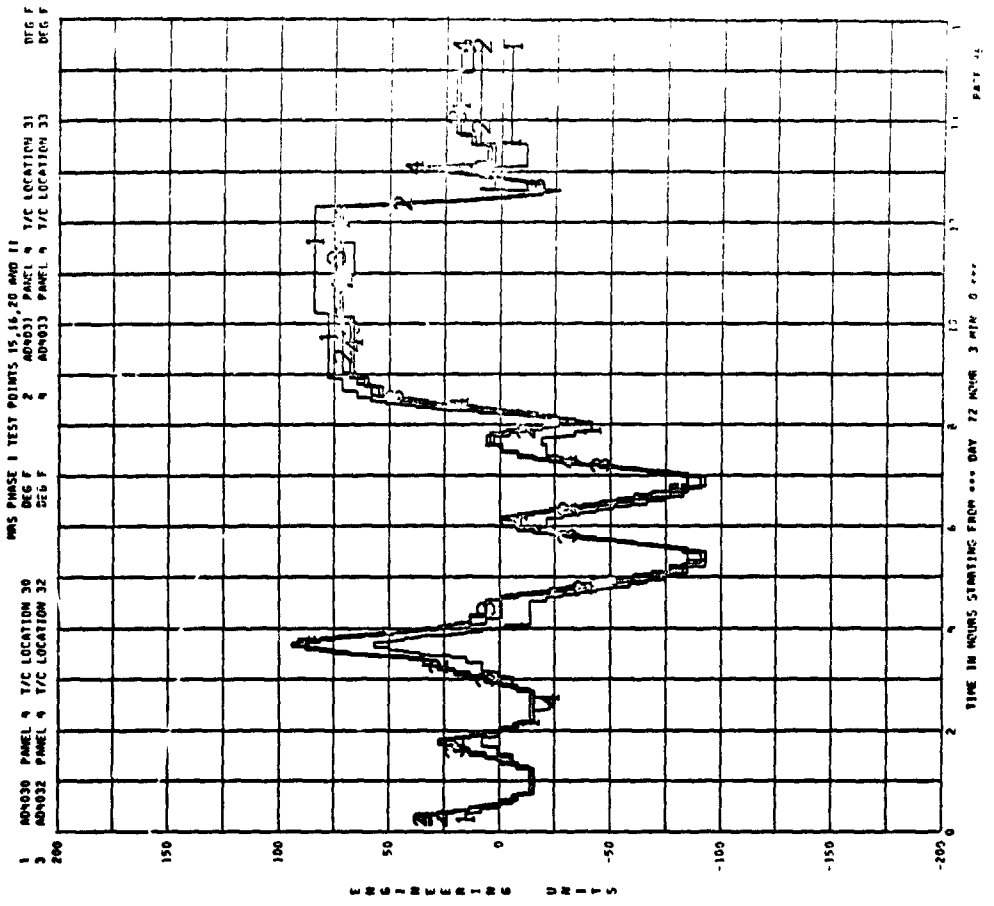


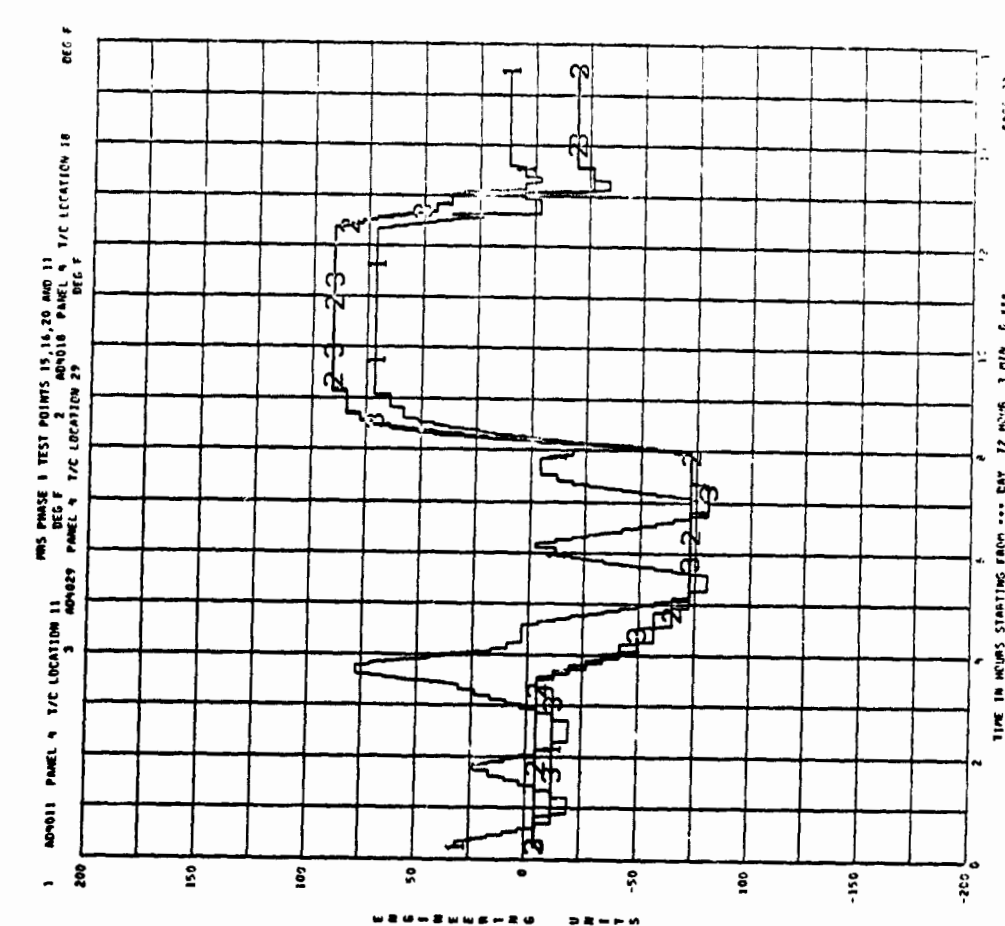
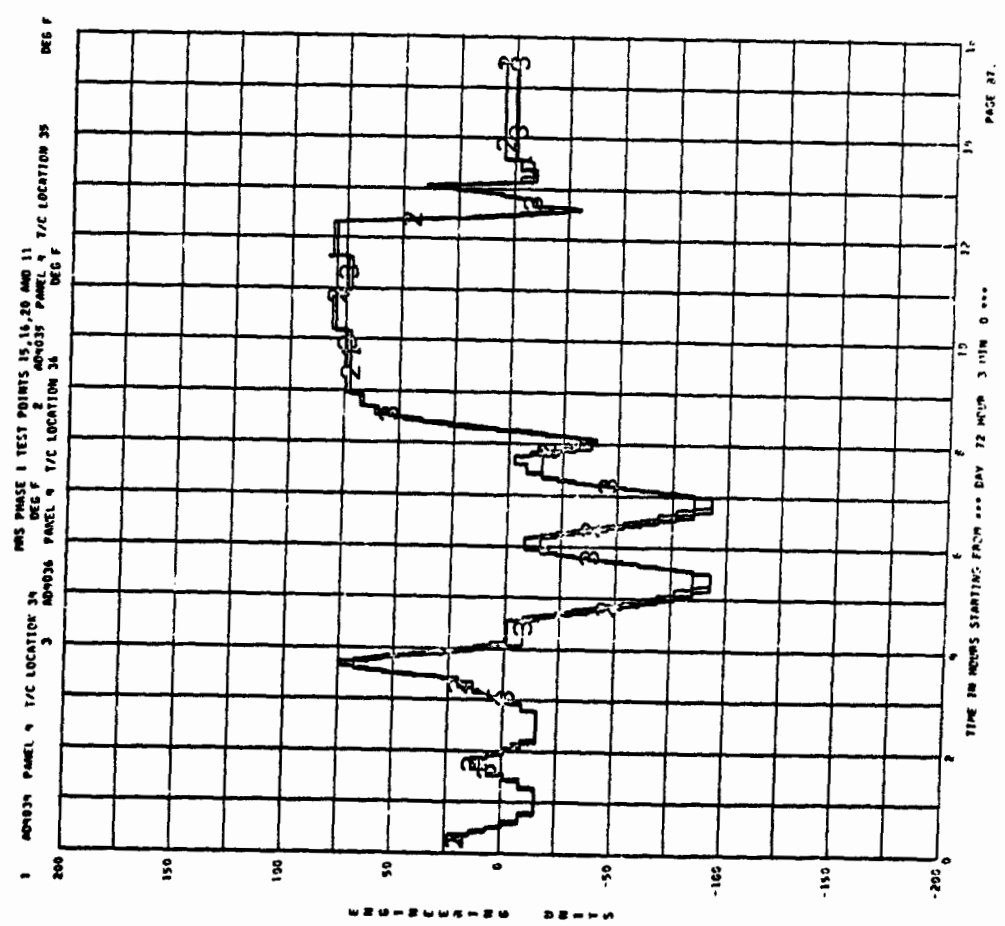


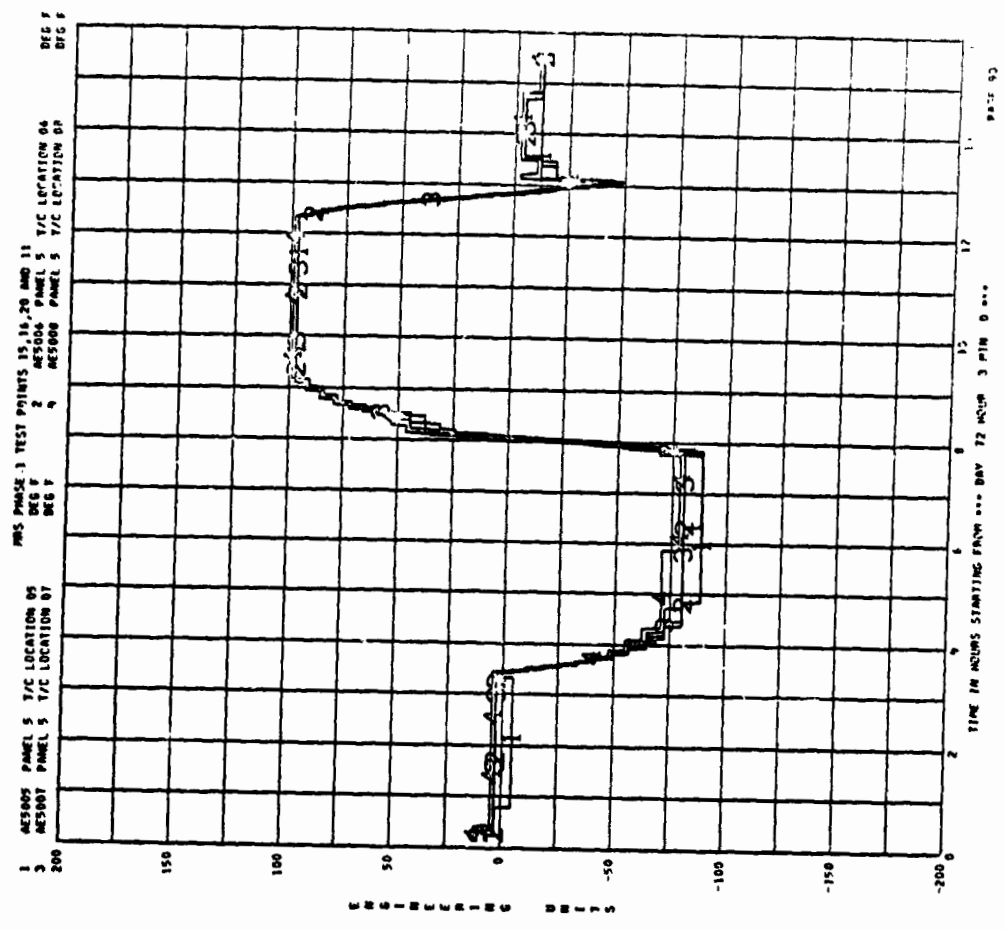
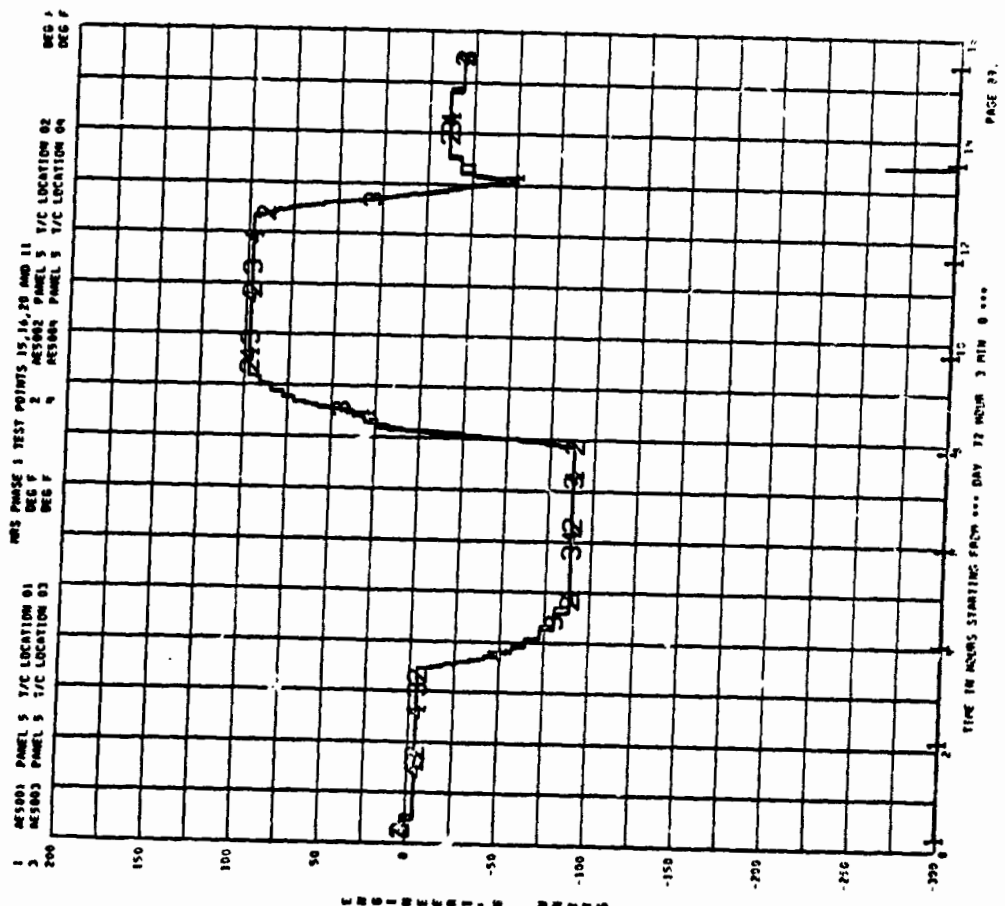


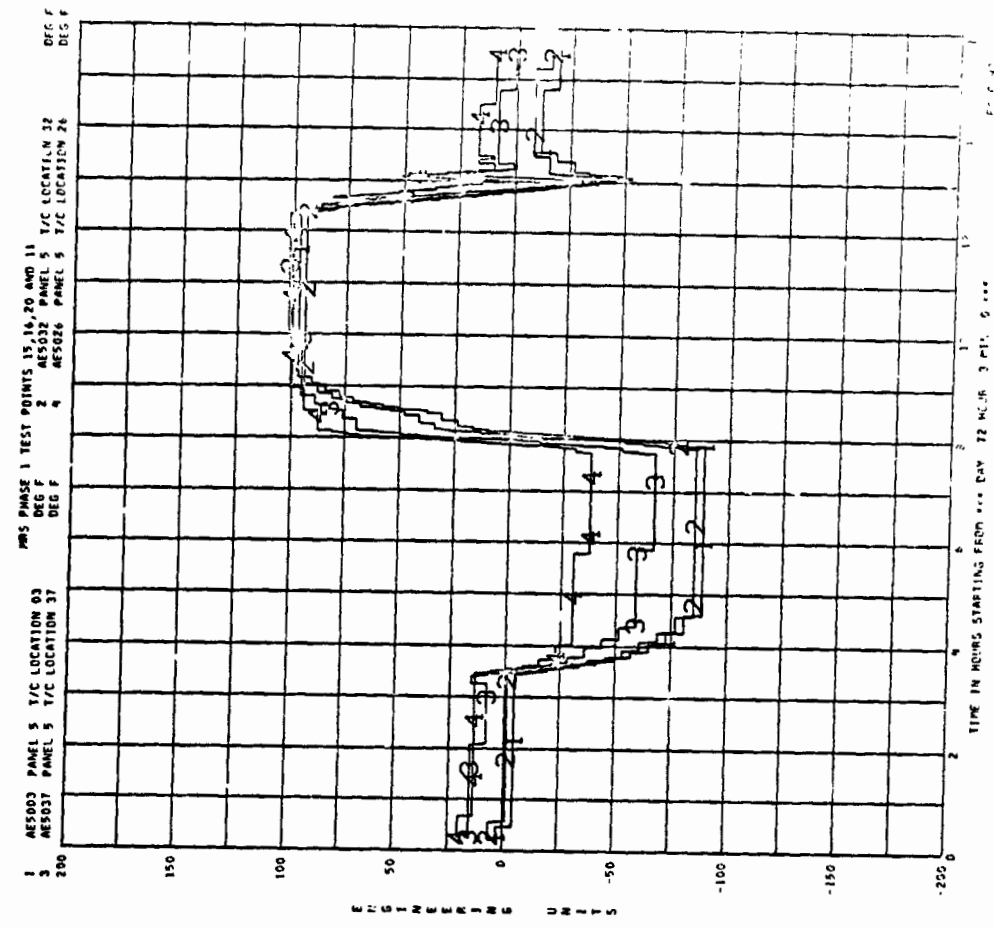
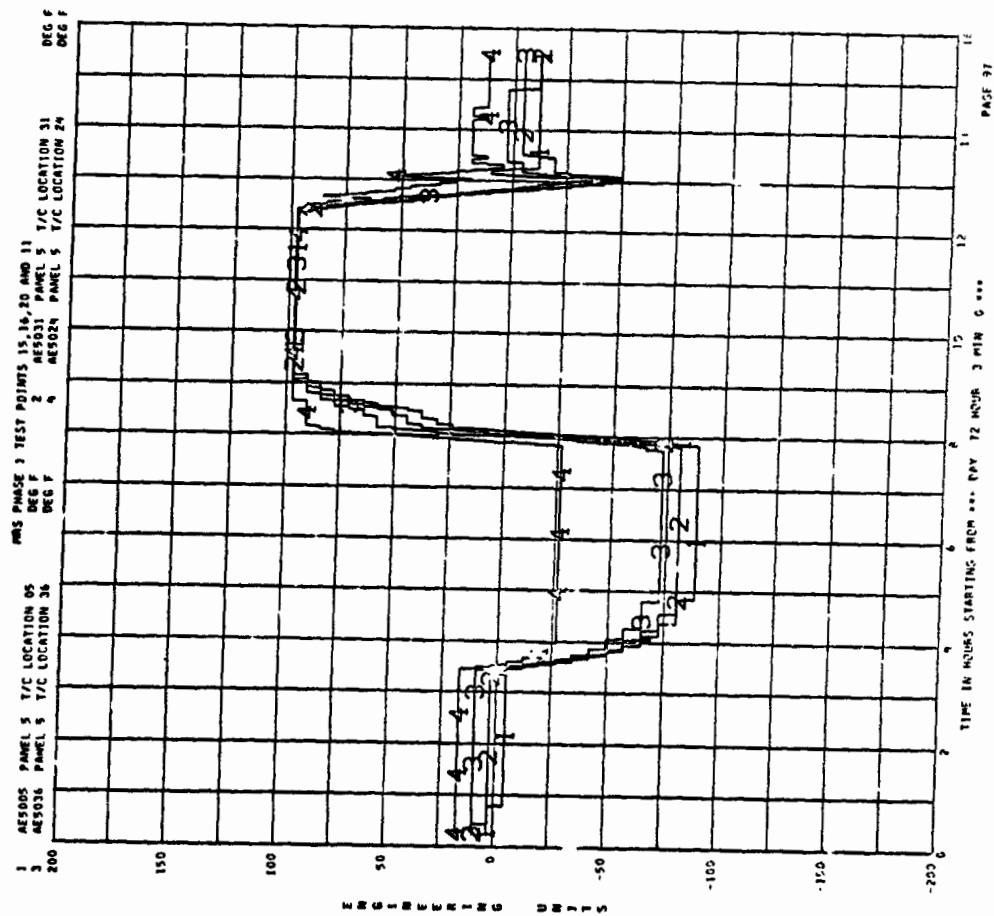


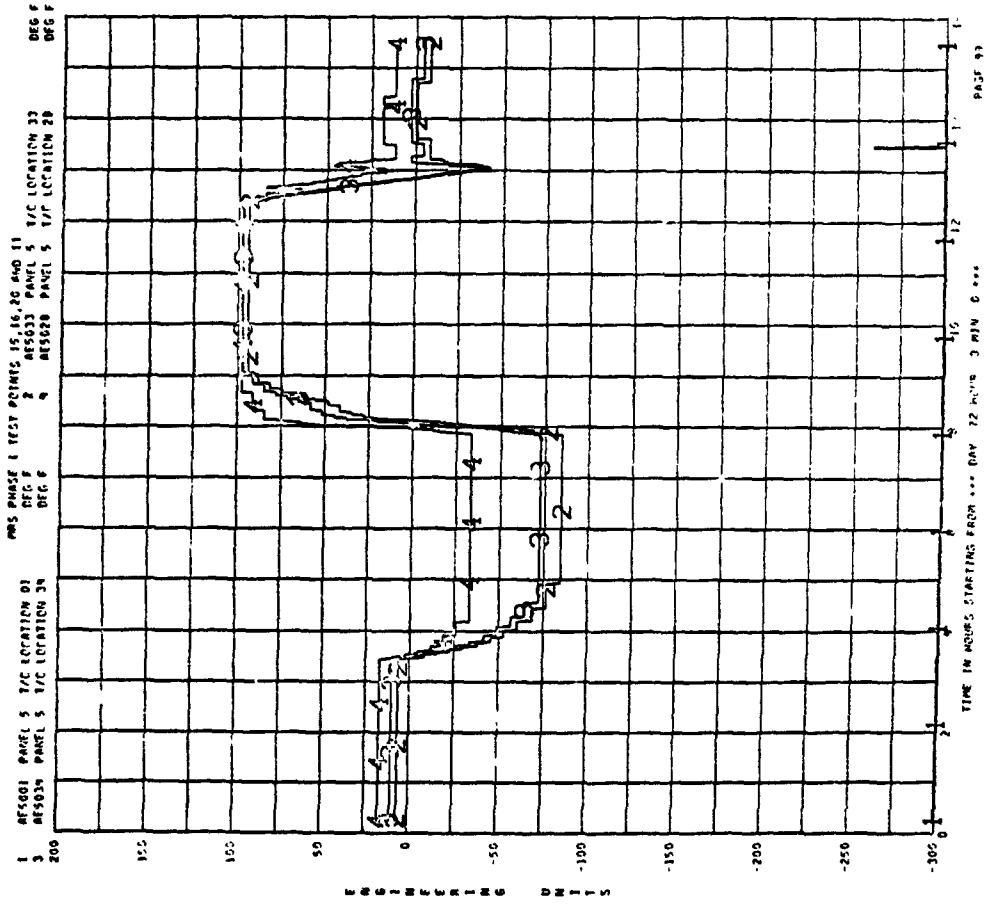
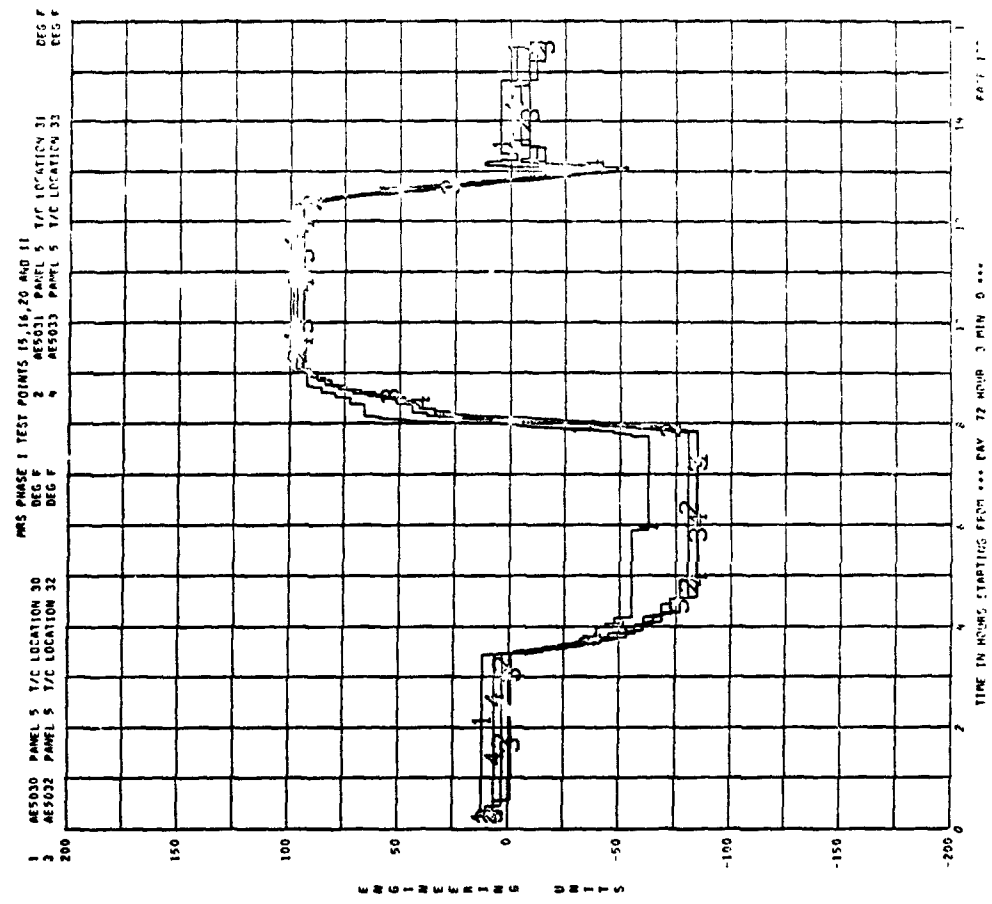




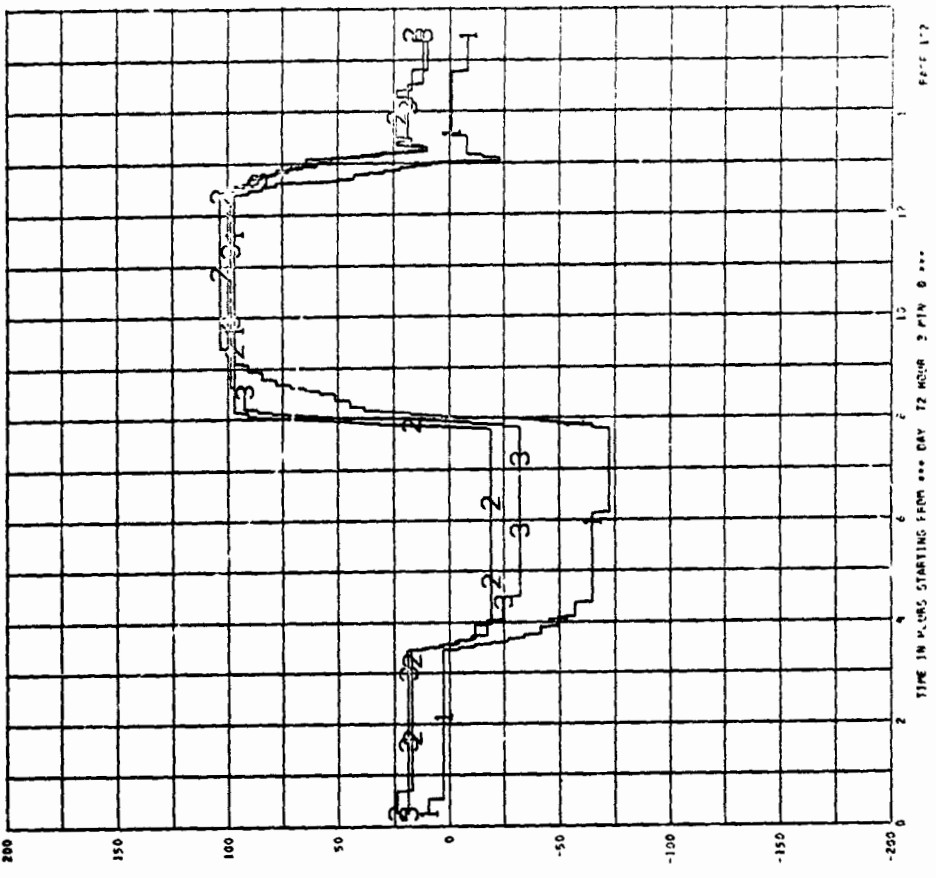




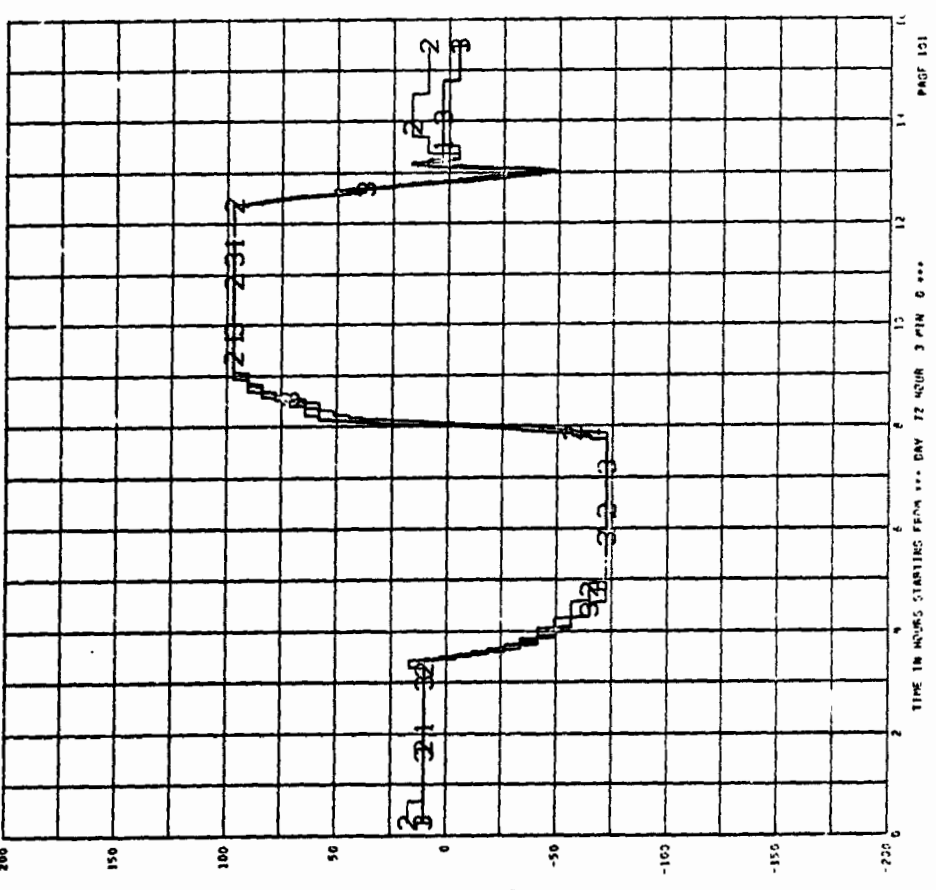




1 MES011 PANEL 5 T/C LOCATION 11
 2 MES018 PANEL 5 T/C LOCATION 10
 3 MES029 PANEL 5 T/C LOCATION 29

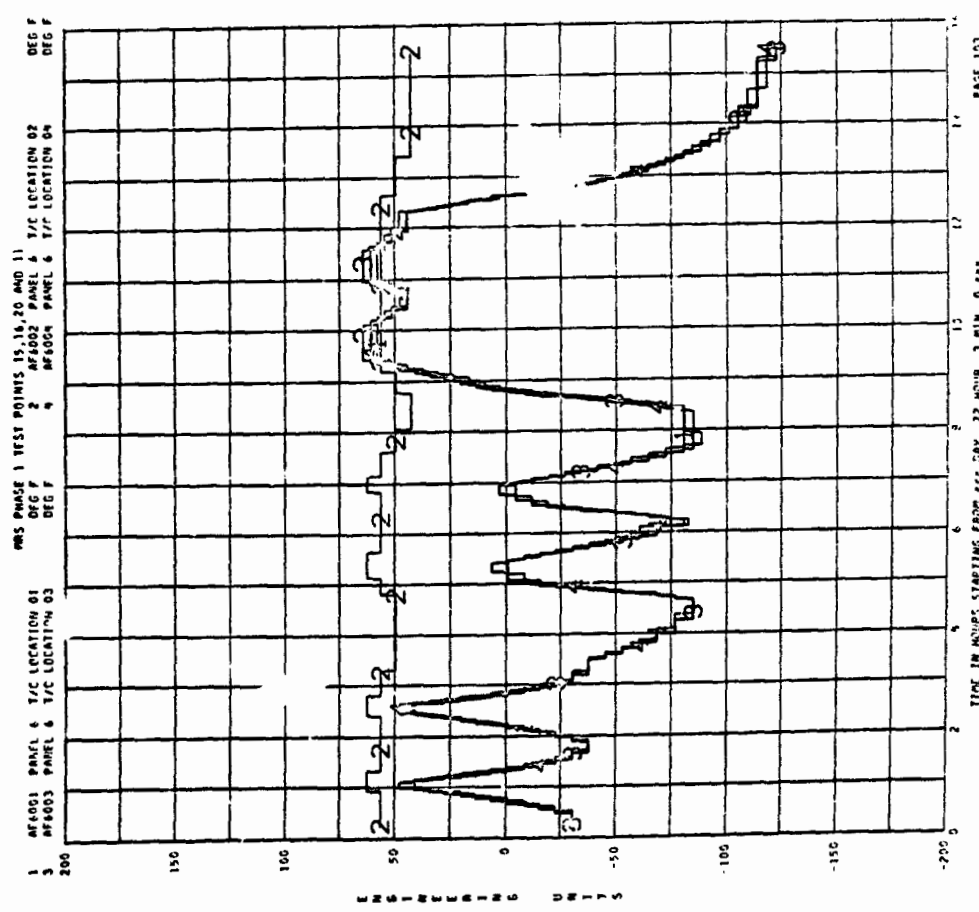
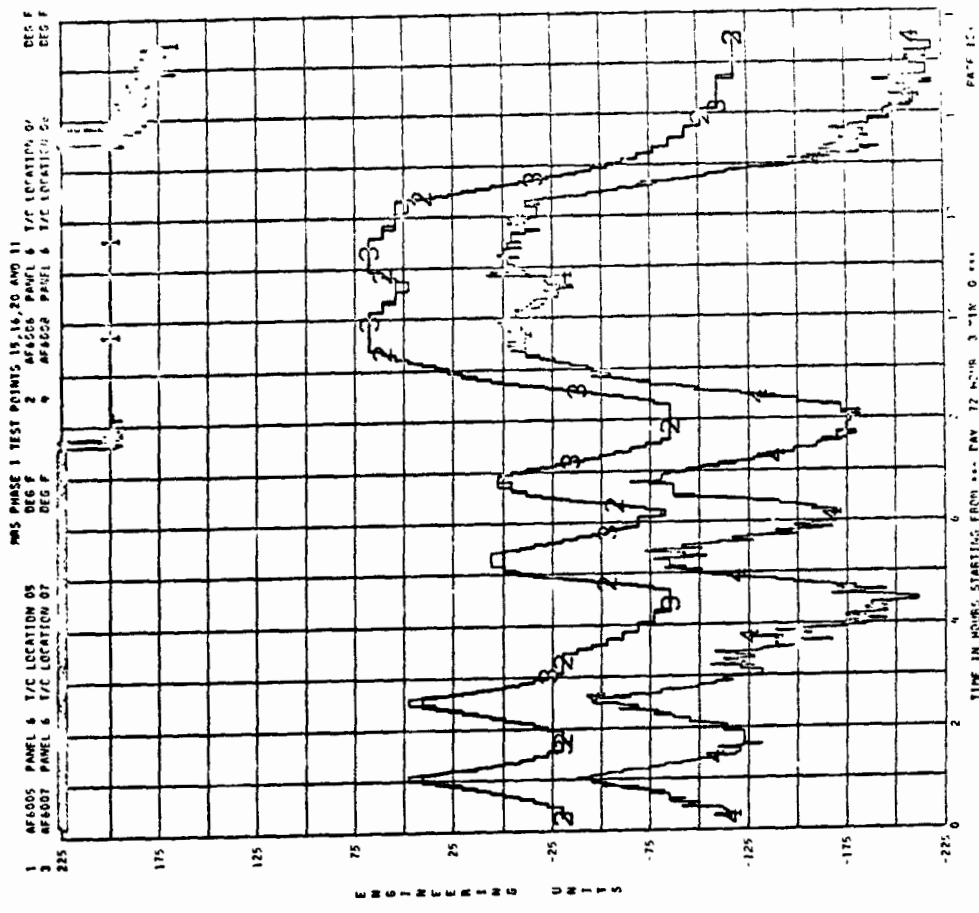


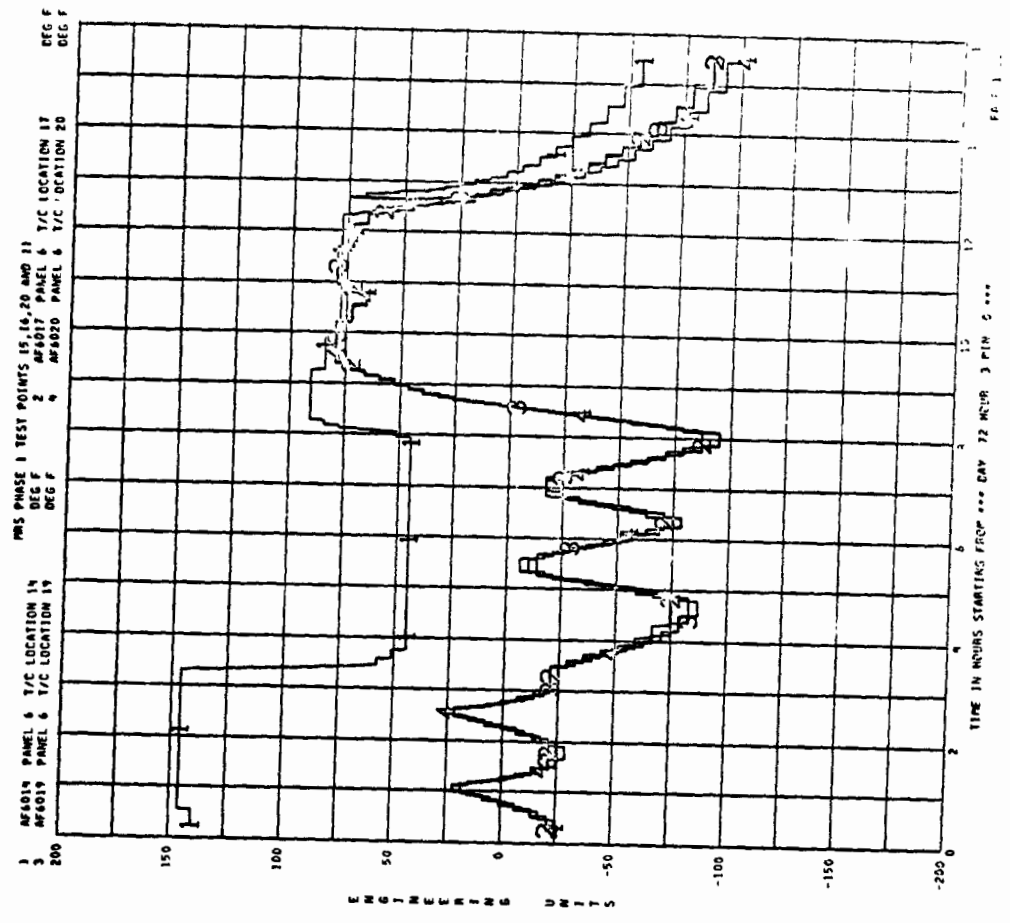
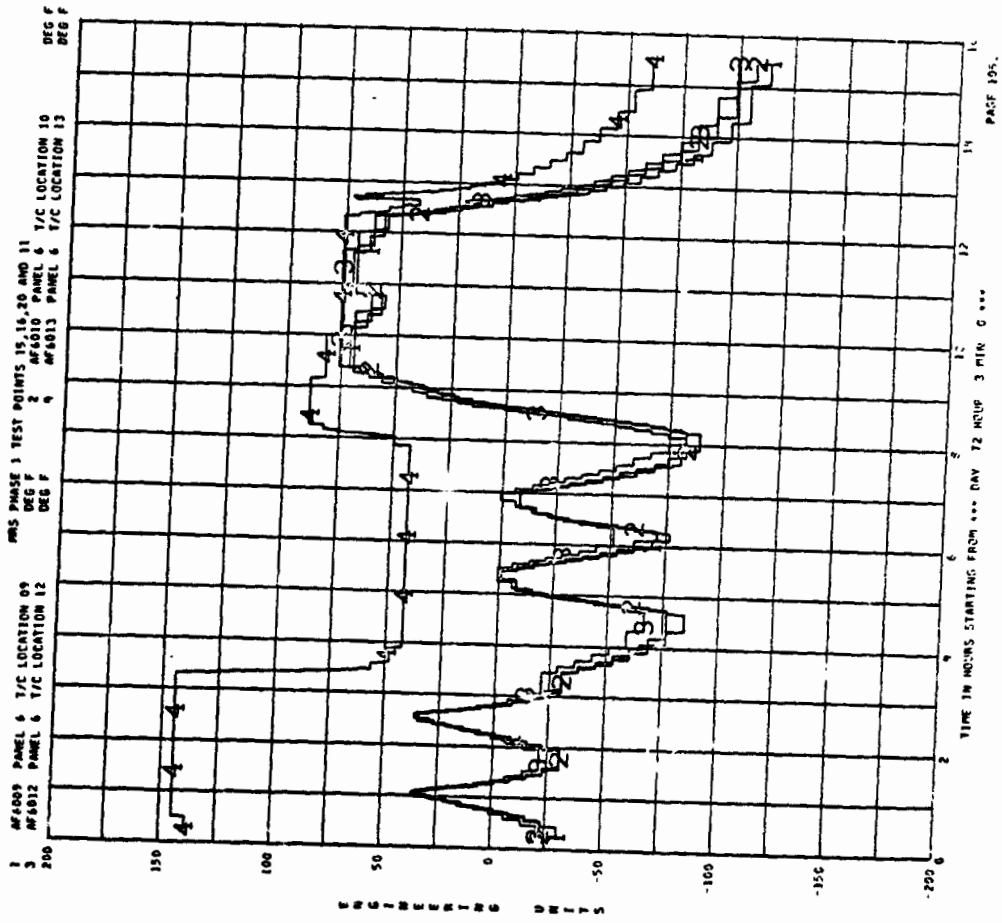
1 MES028 PANEL 5 T/C LOCATION 28
 2 MES035 PANEL 5 T/C LOCATION 35
 3 MES026 PANEL 5 T/C LOCATION 26

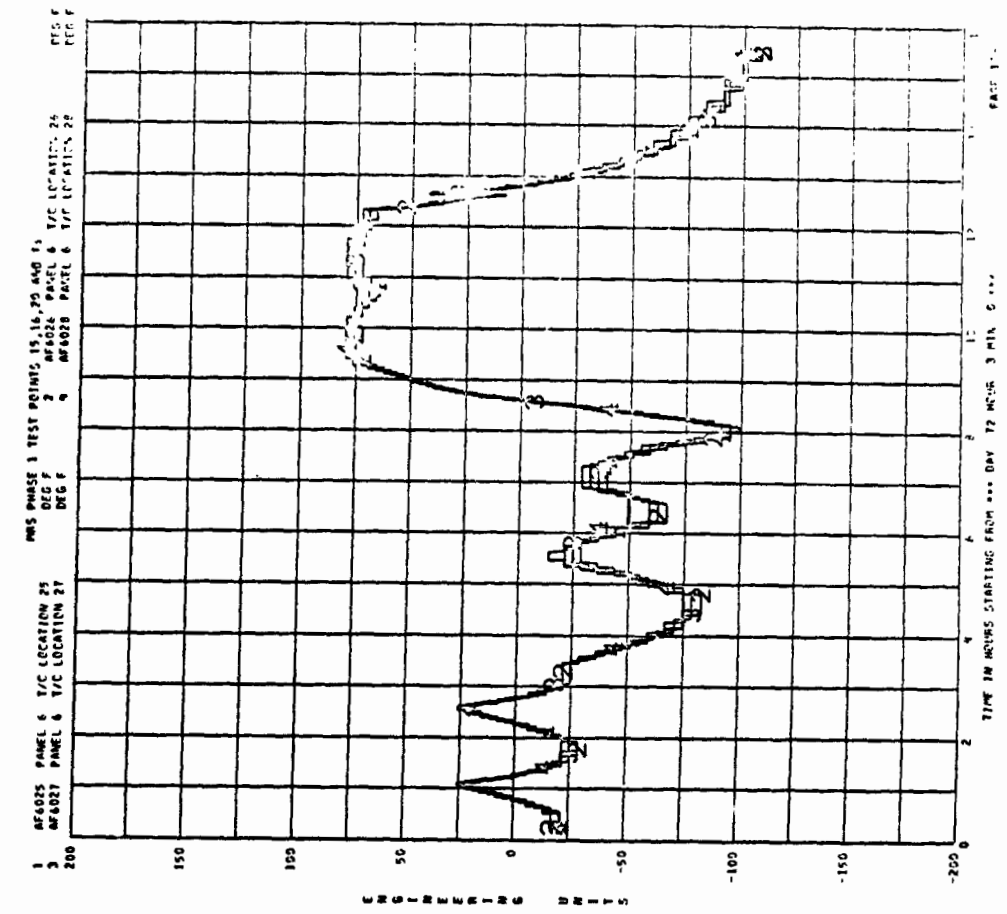
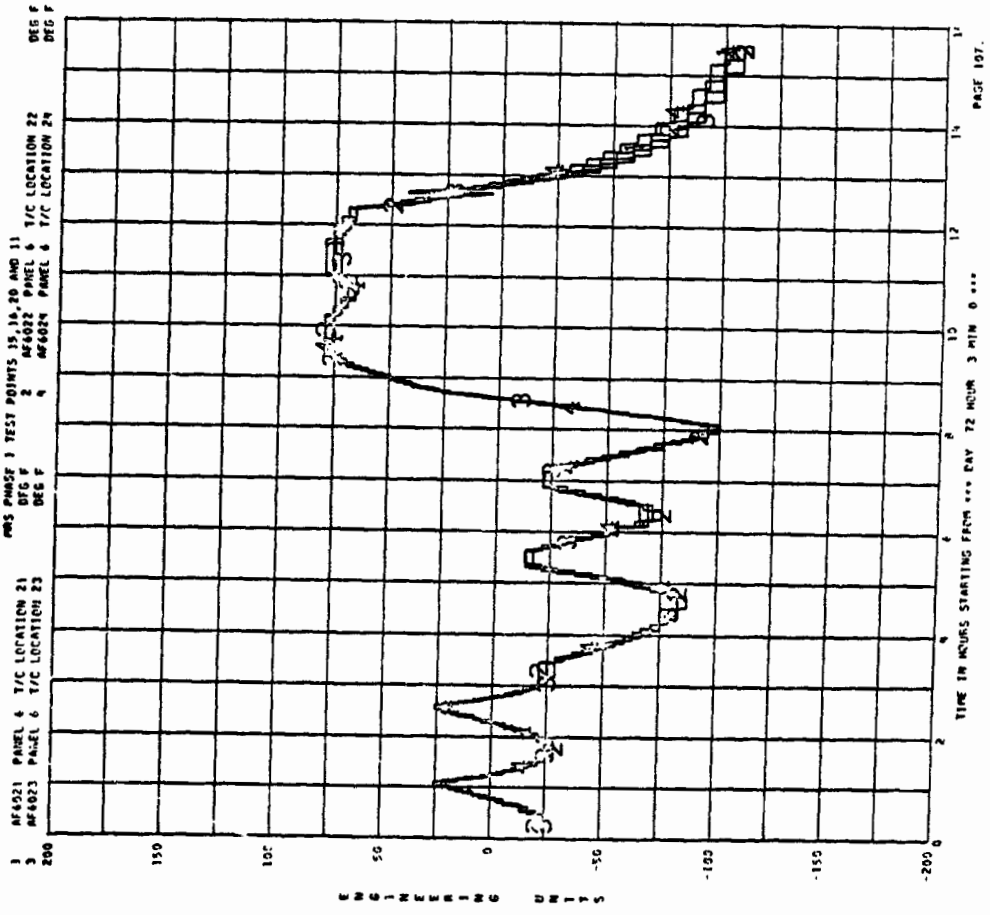


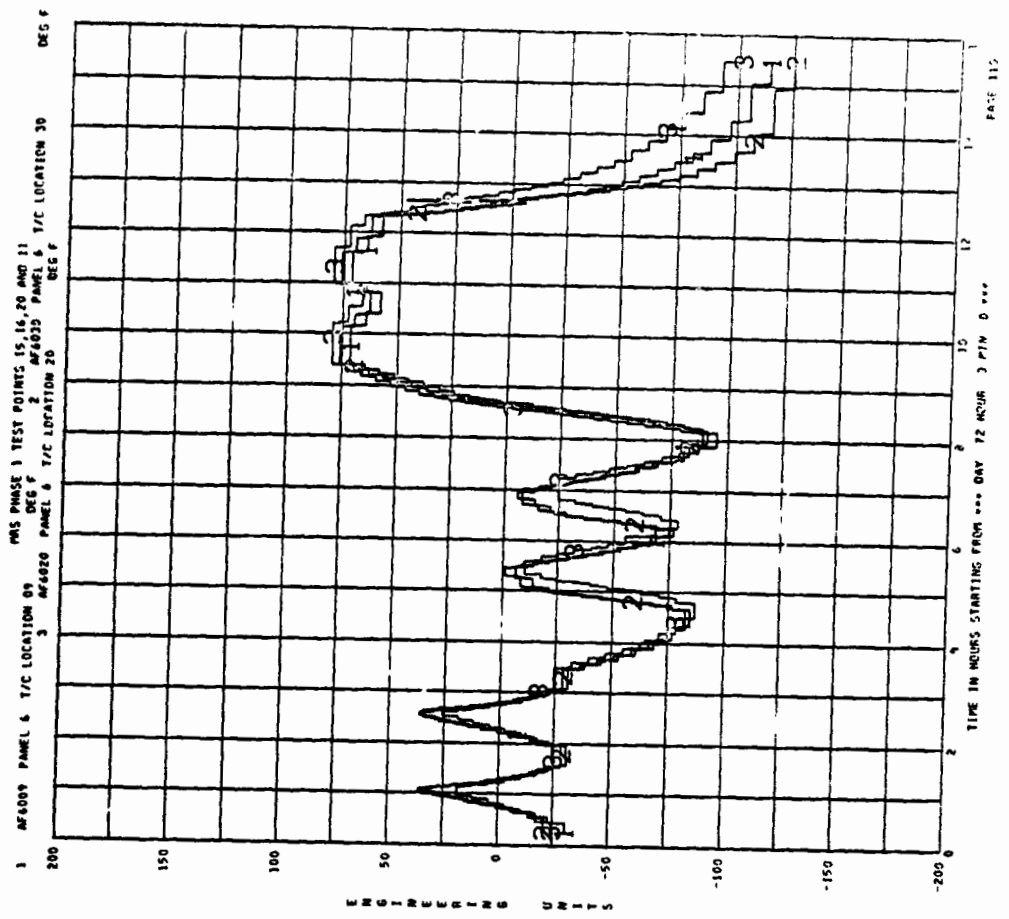
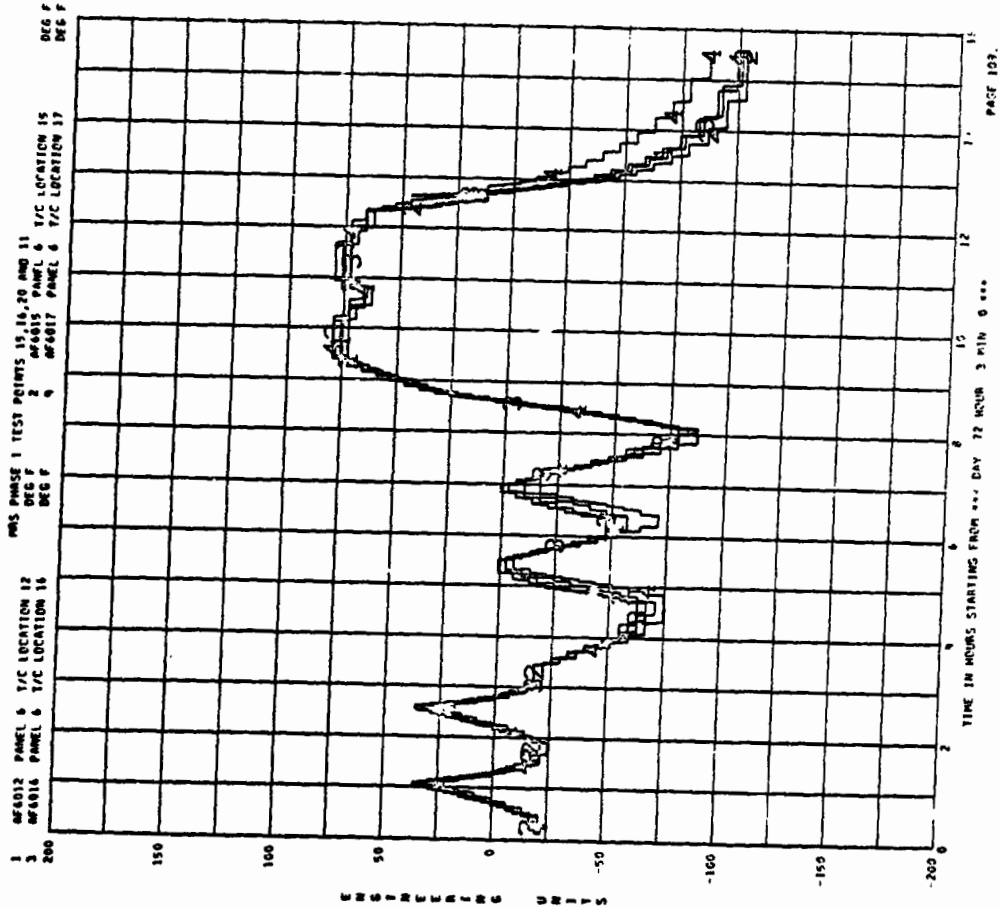
ENGINEERING UNIT 5

ENGINEERING UNIT 5



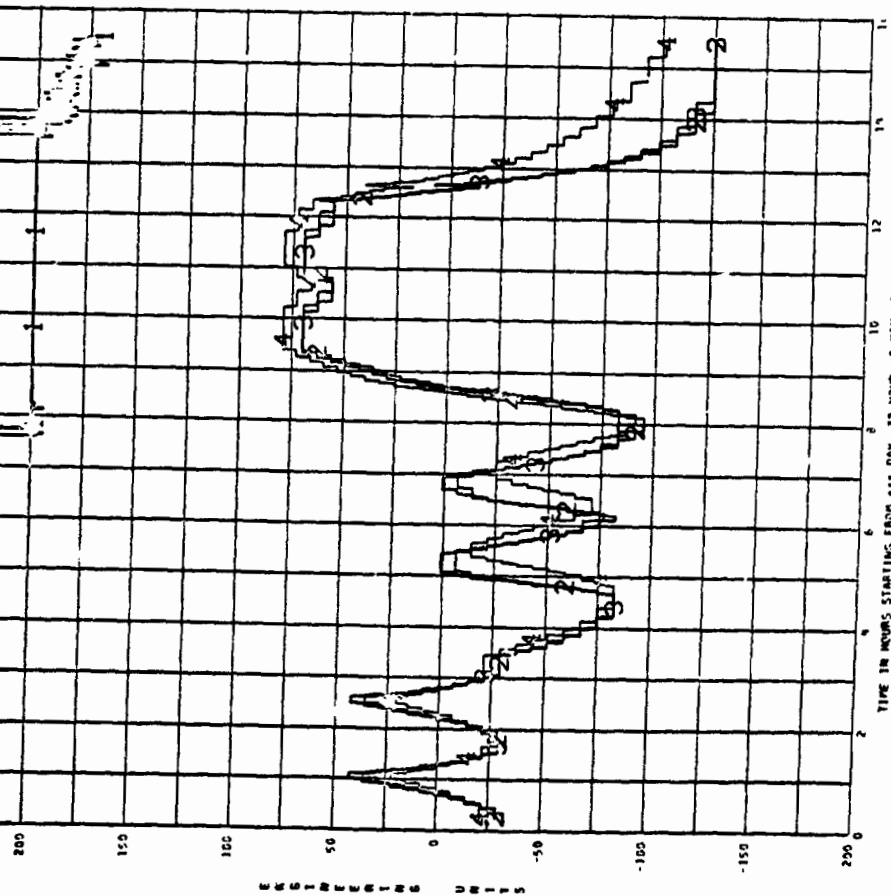
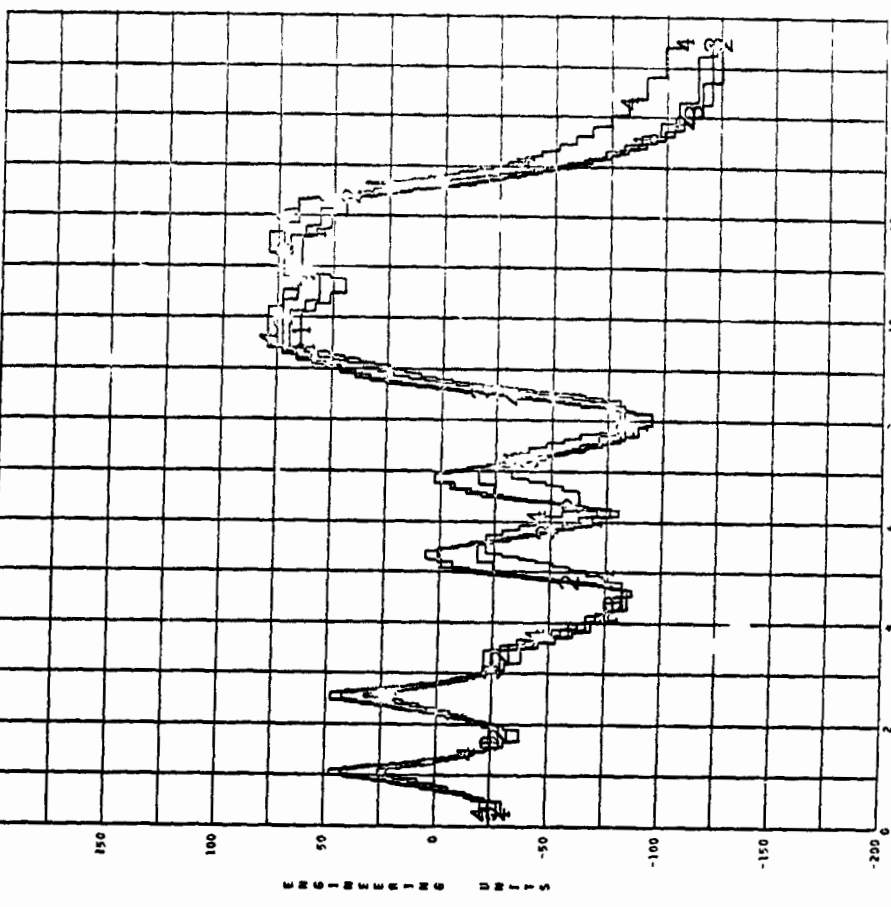


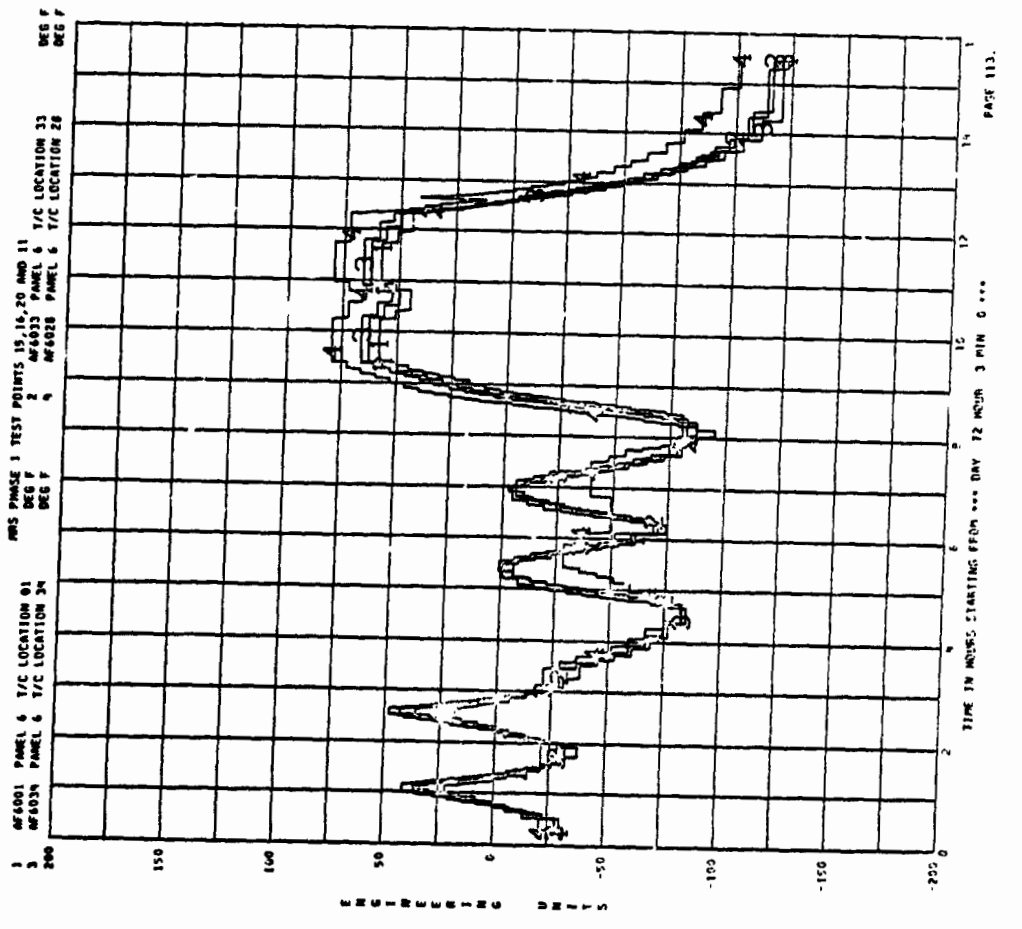
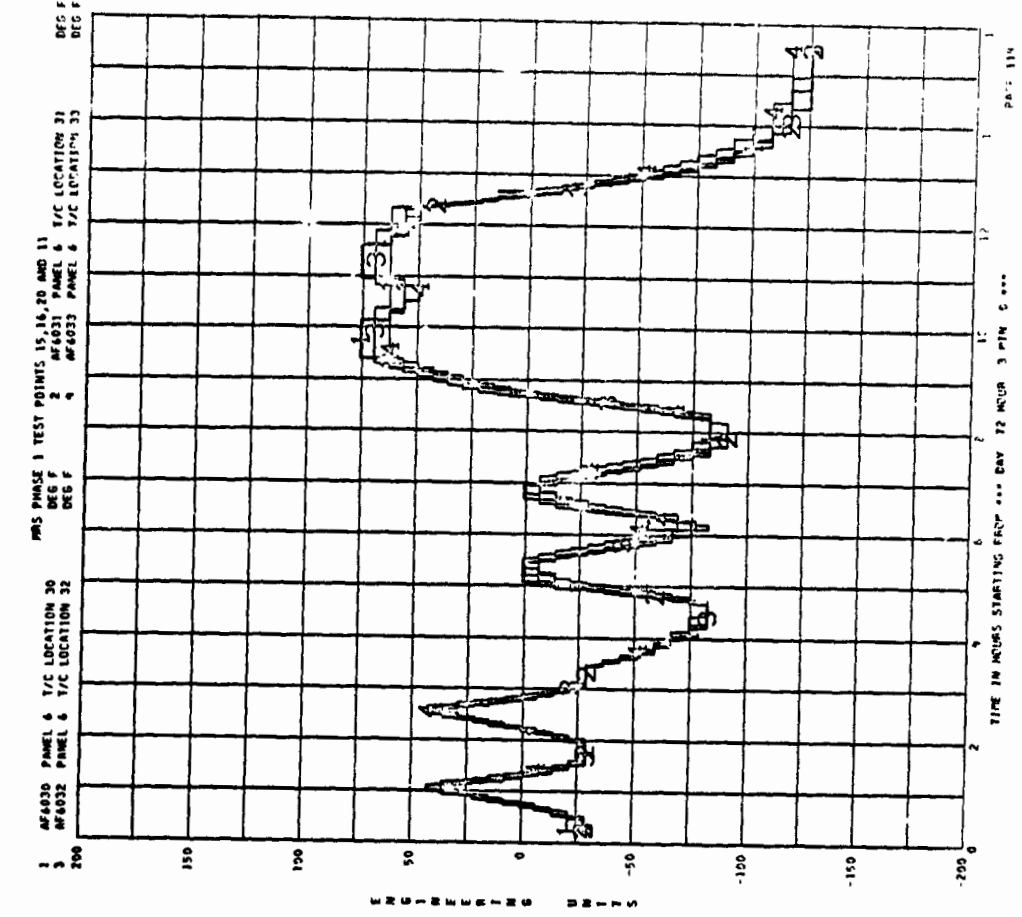




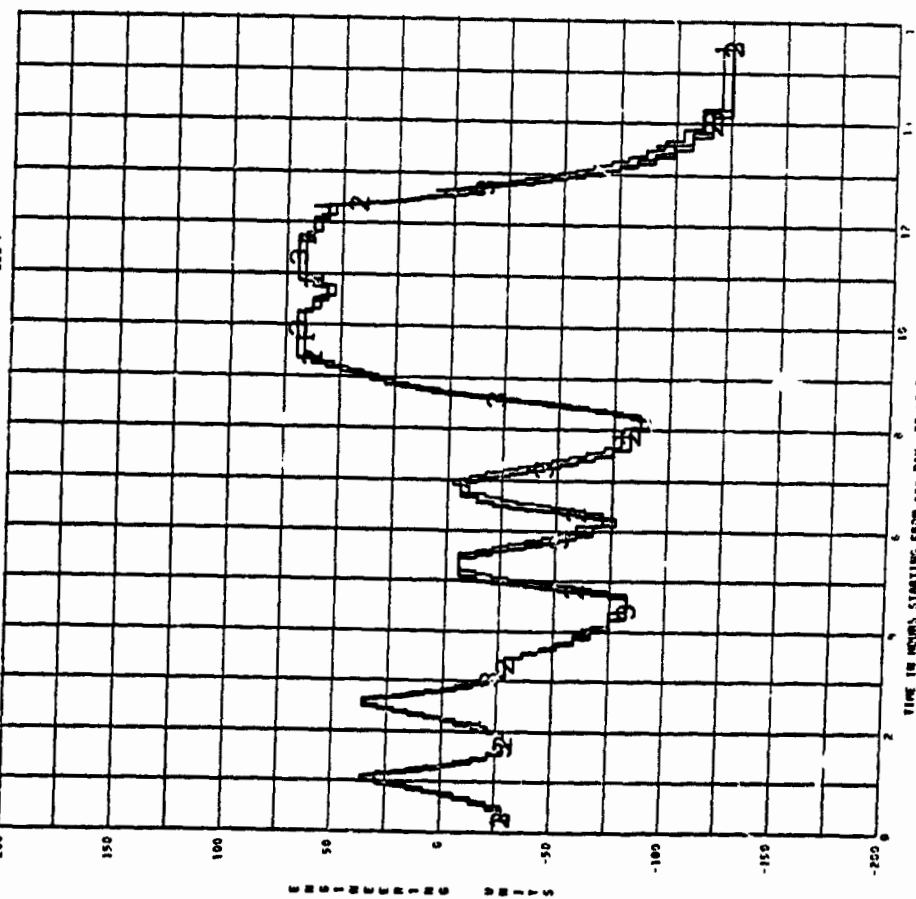
1 AF4003 PANEL 6 T/C LOCATION 0° DEG F
 2 AF4002 PANEL 6 T/C LOCATION 32 DEG F
 3 AF4007 PANEL 6 T/C LOCATION 21 DEG F

RMS PHASE 1 TEST POINTS 15, 16, 20 AND 11
 1 AF4005 PANEL 6 T/C LOCATION 05 DEG F
 2 AF4001 PANEL 6 T/C LOCATION 31 DEG F
 3 AF4026 PANEL 6 T/C LOCATION 24 DEG F



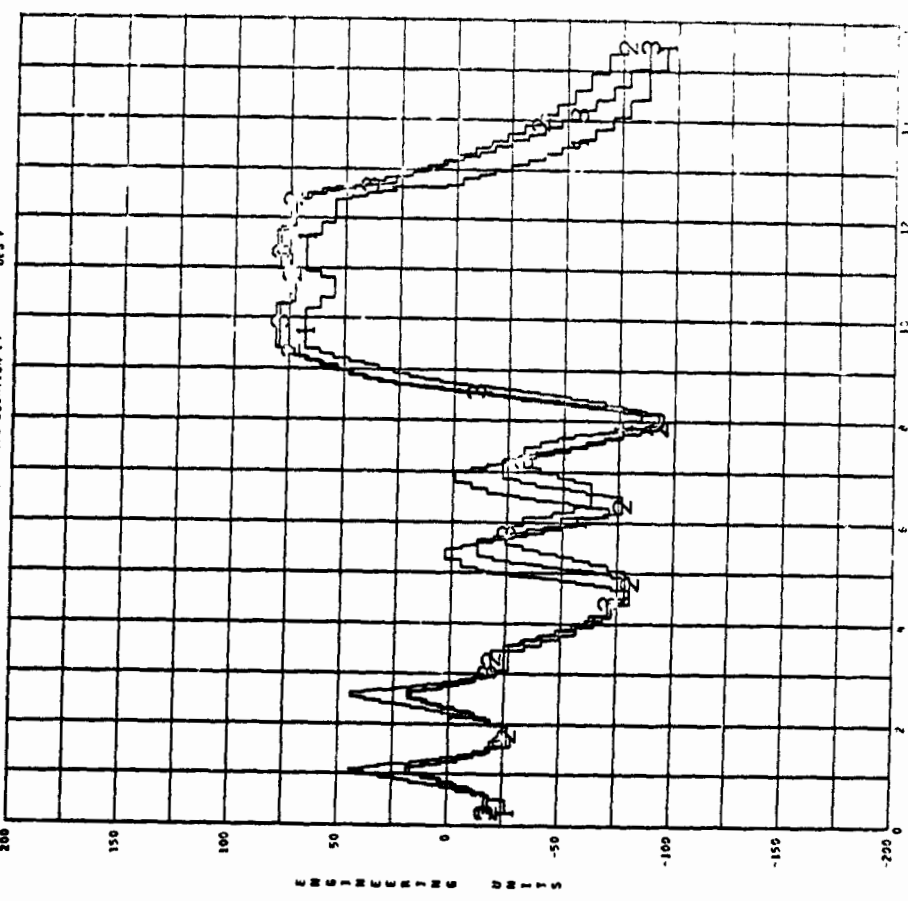


1 AF6034 PANEL 4 T/C LOCATION 29
 2 AF6035 PANEL 6 T/C LOCATION 35
 3 AF6036 PANEL 6 T/C LOCATION 36
 DES F
 DES F

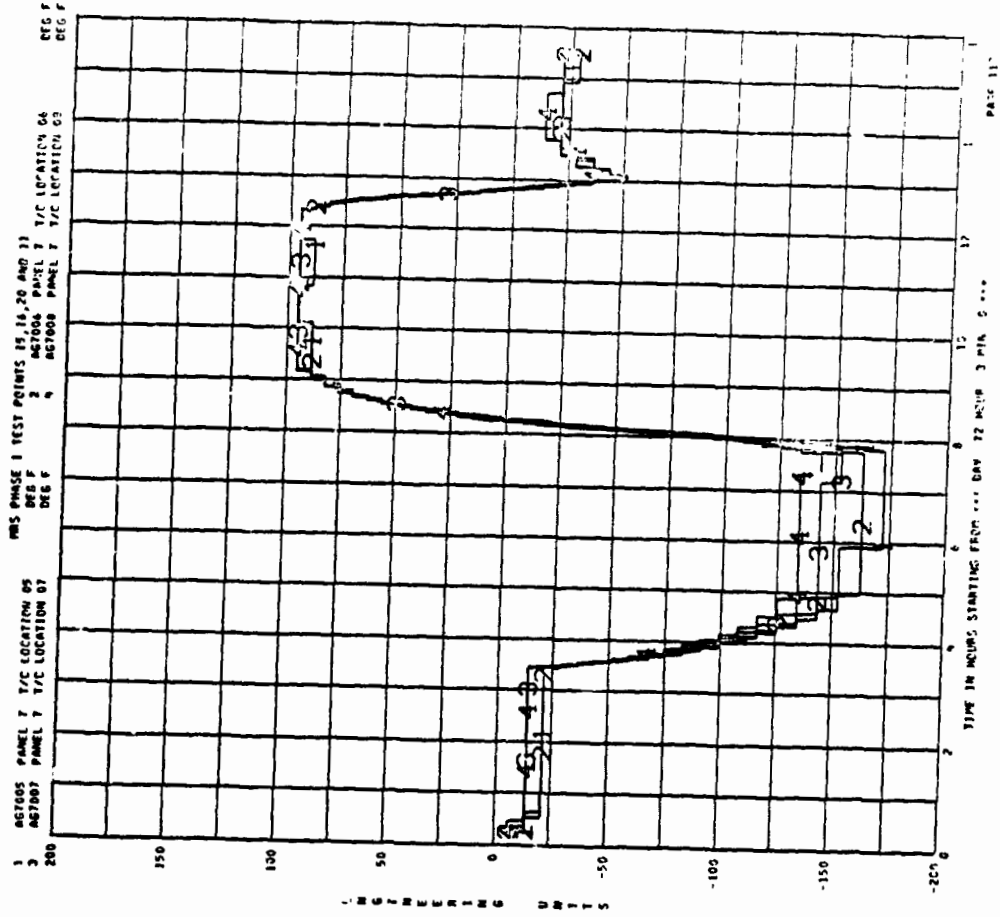
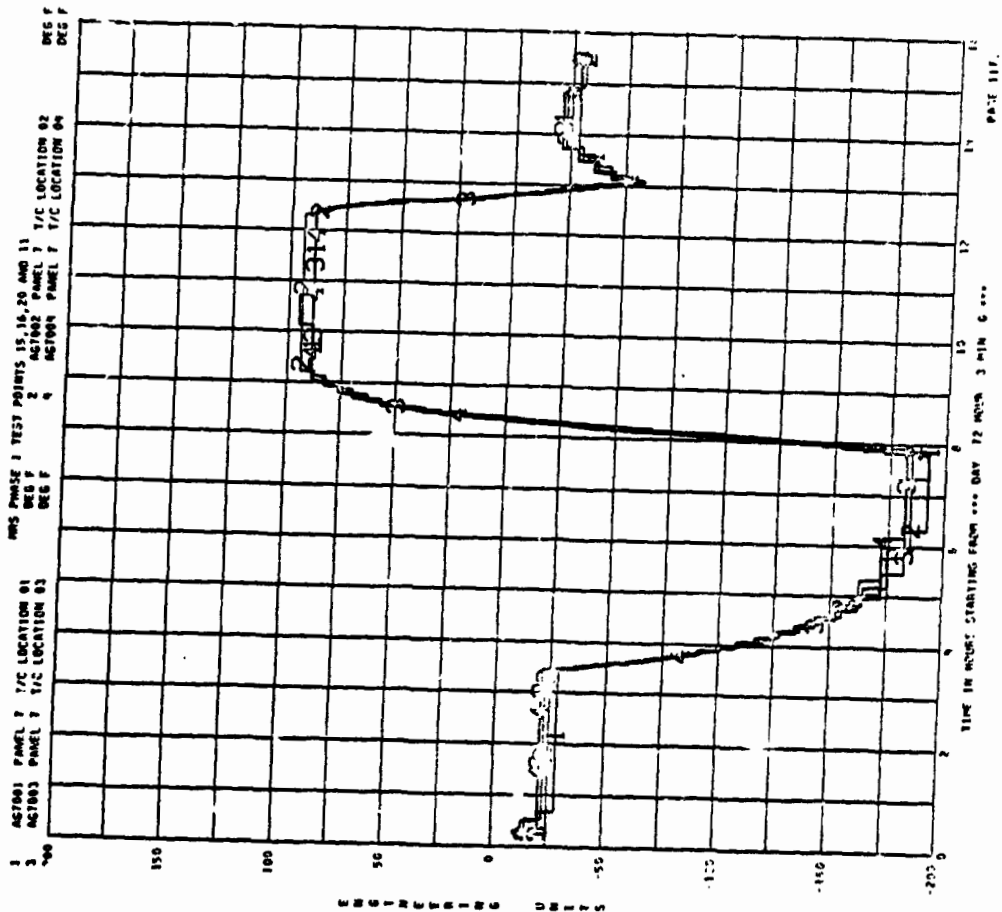


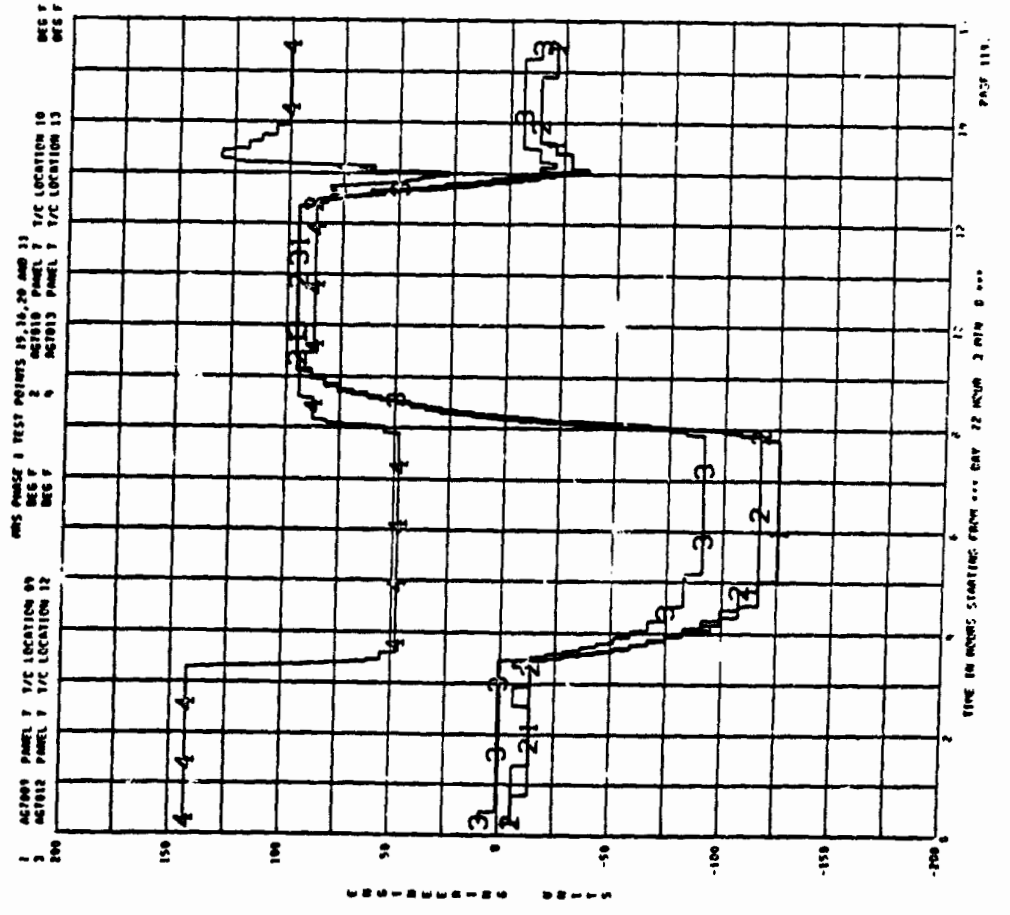
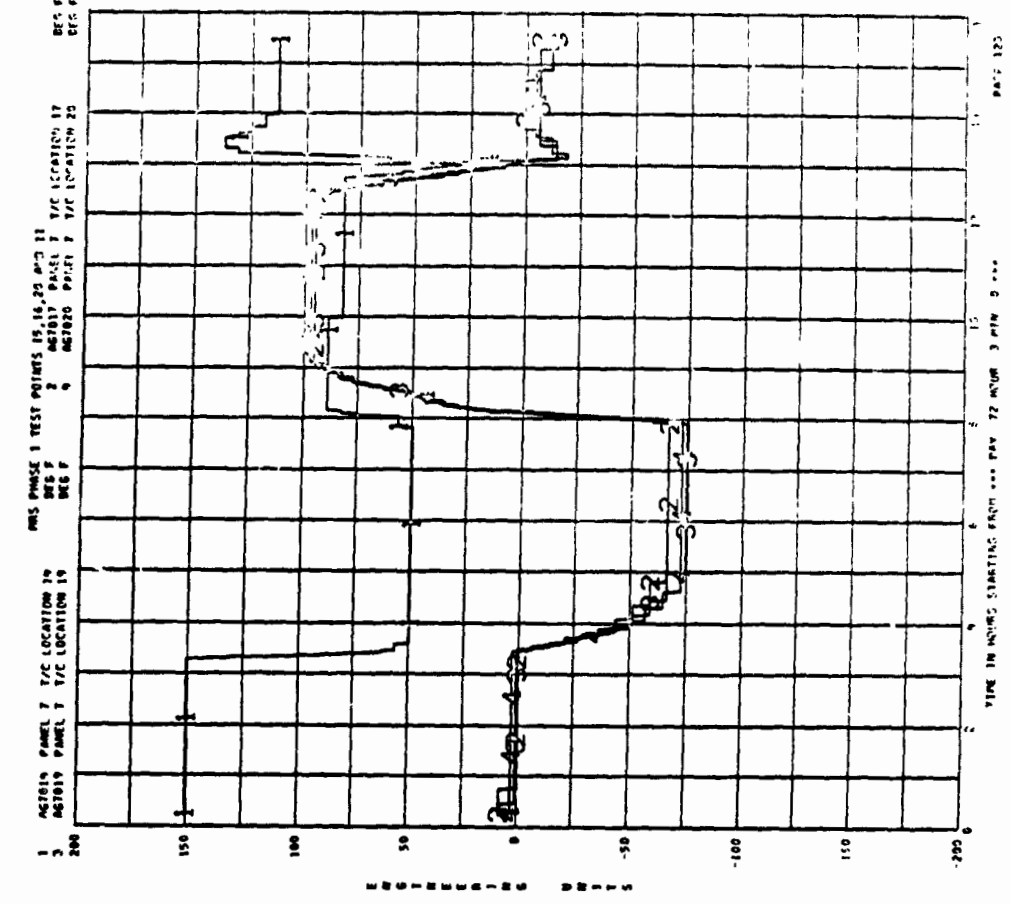
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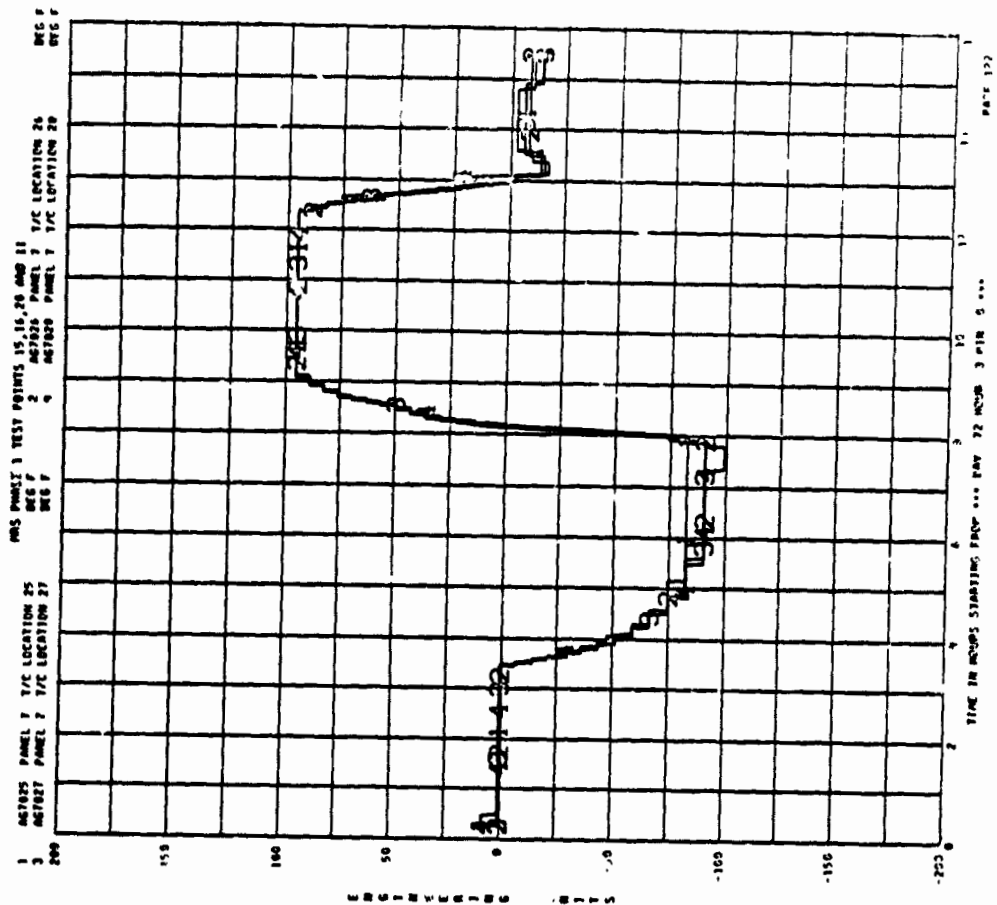
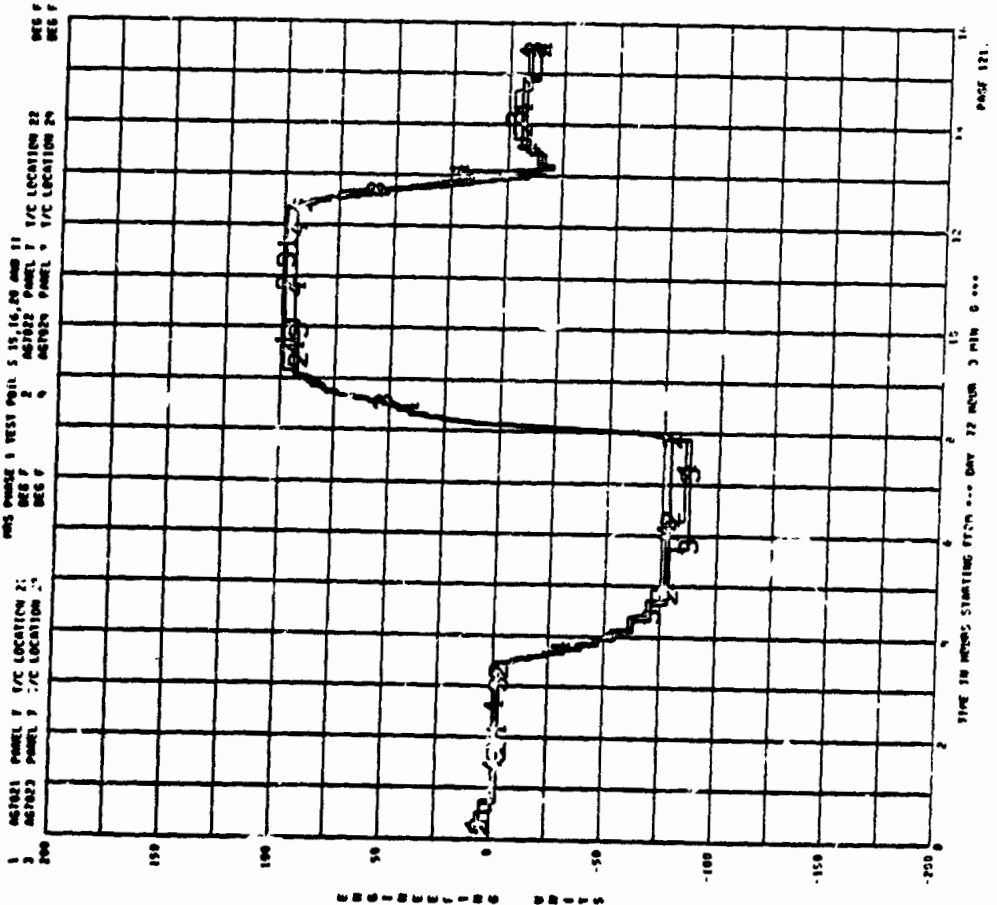
1 AF6011 PANEL 6 T/C LOCATION 11
 2 AF6012 PANEL 6 T/C LOCATION 18
 3 AF6013 PANEL 6 T/C LOCATION 29
 DES F
 DES F

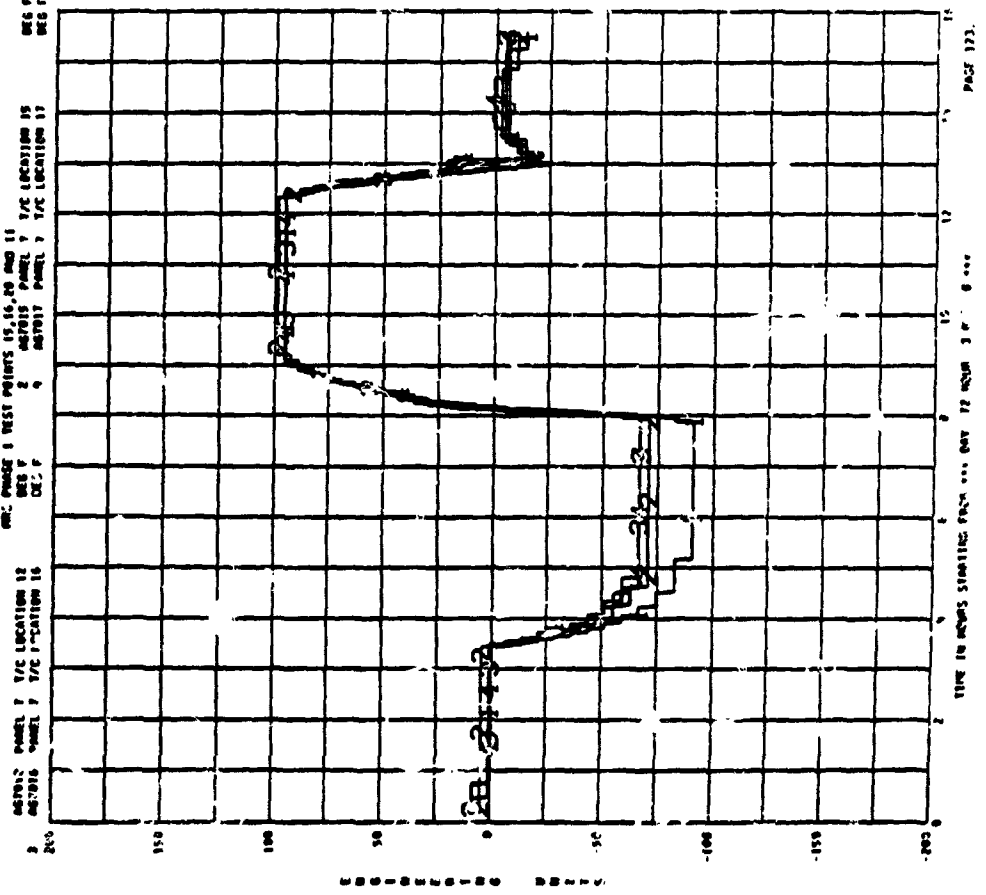
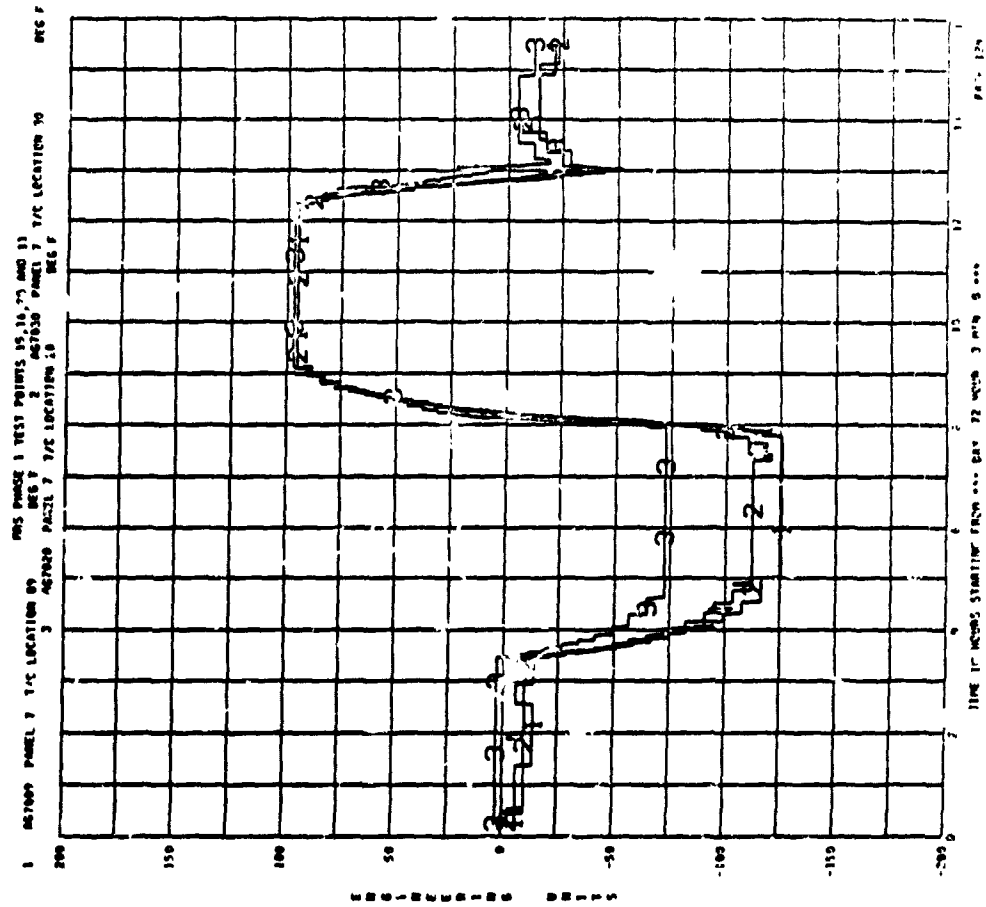


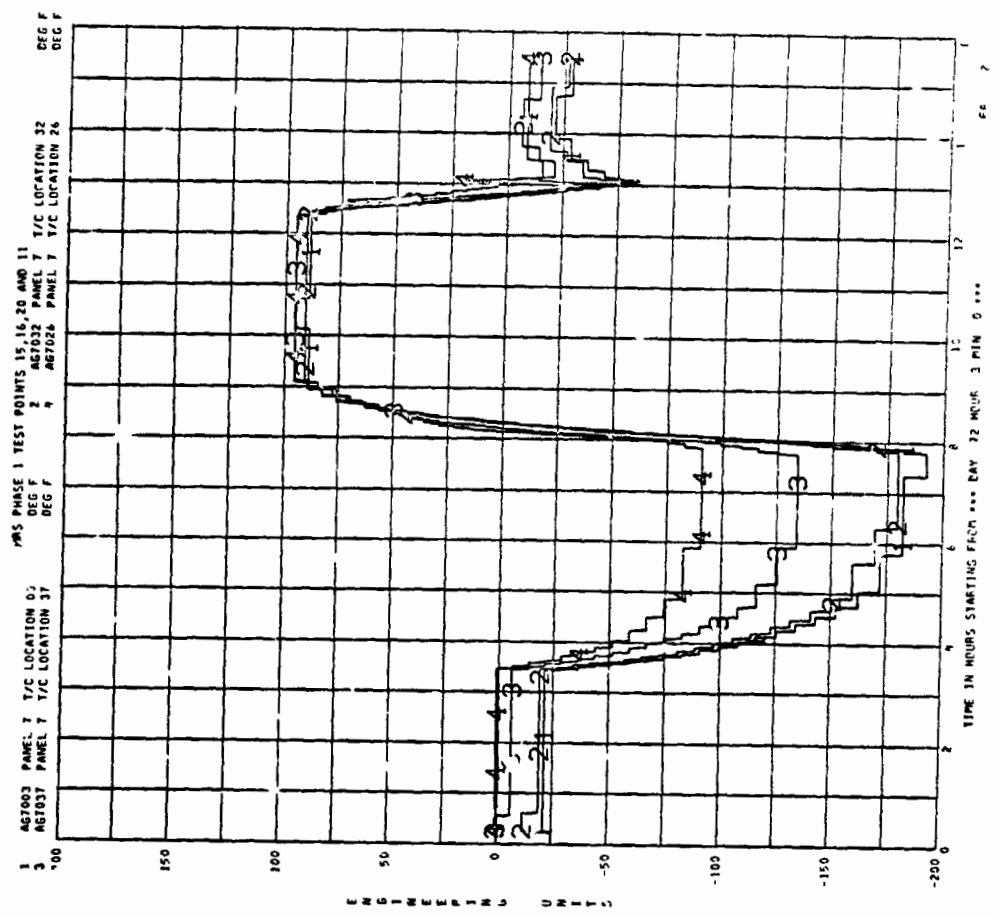
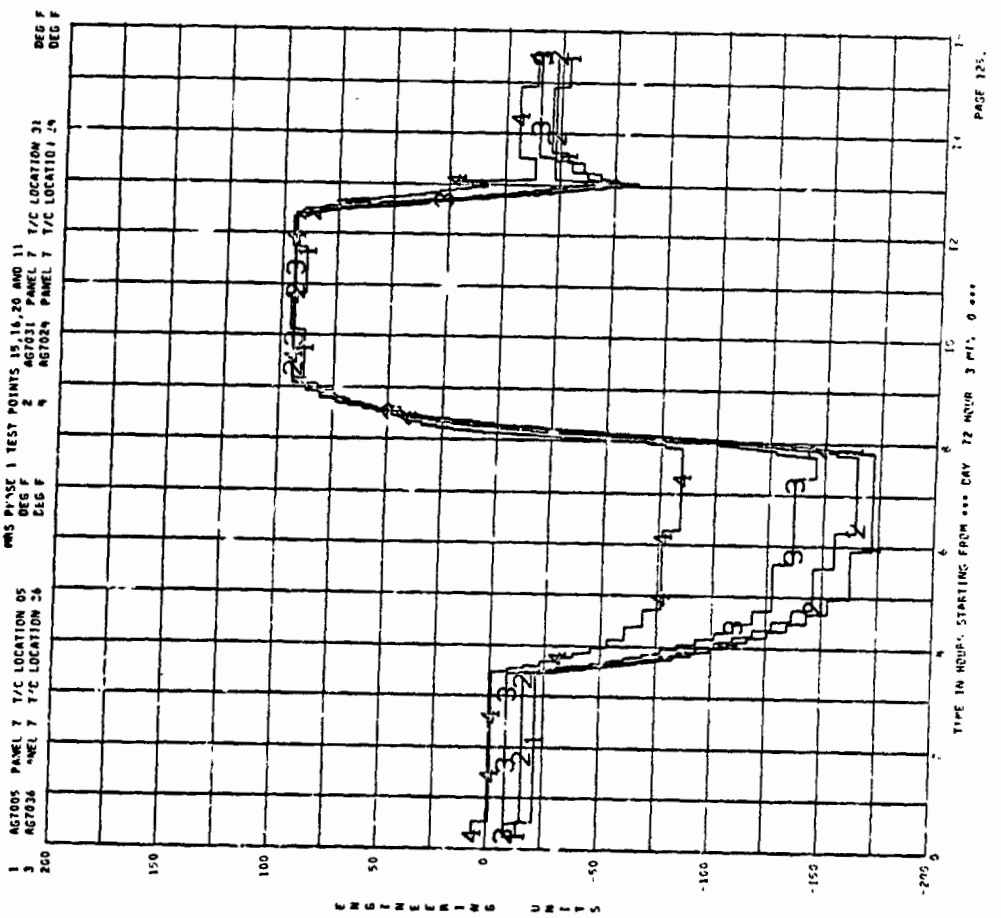
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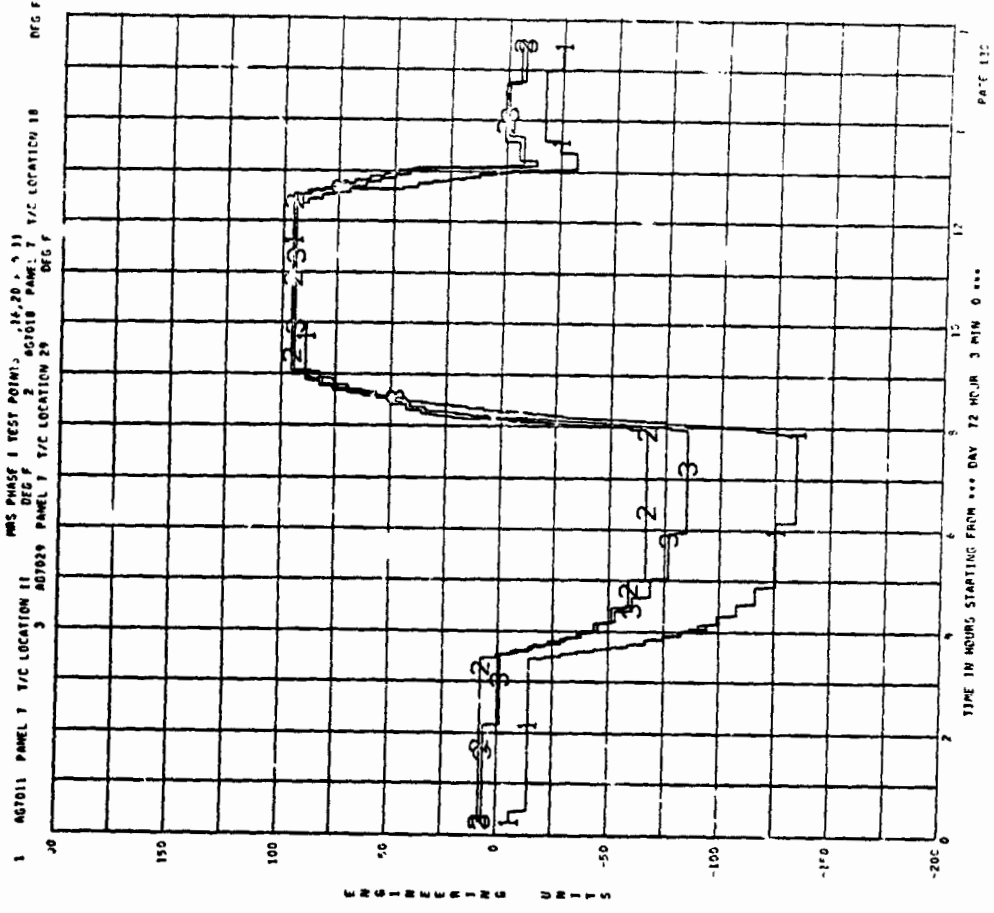
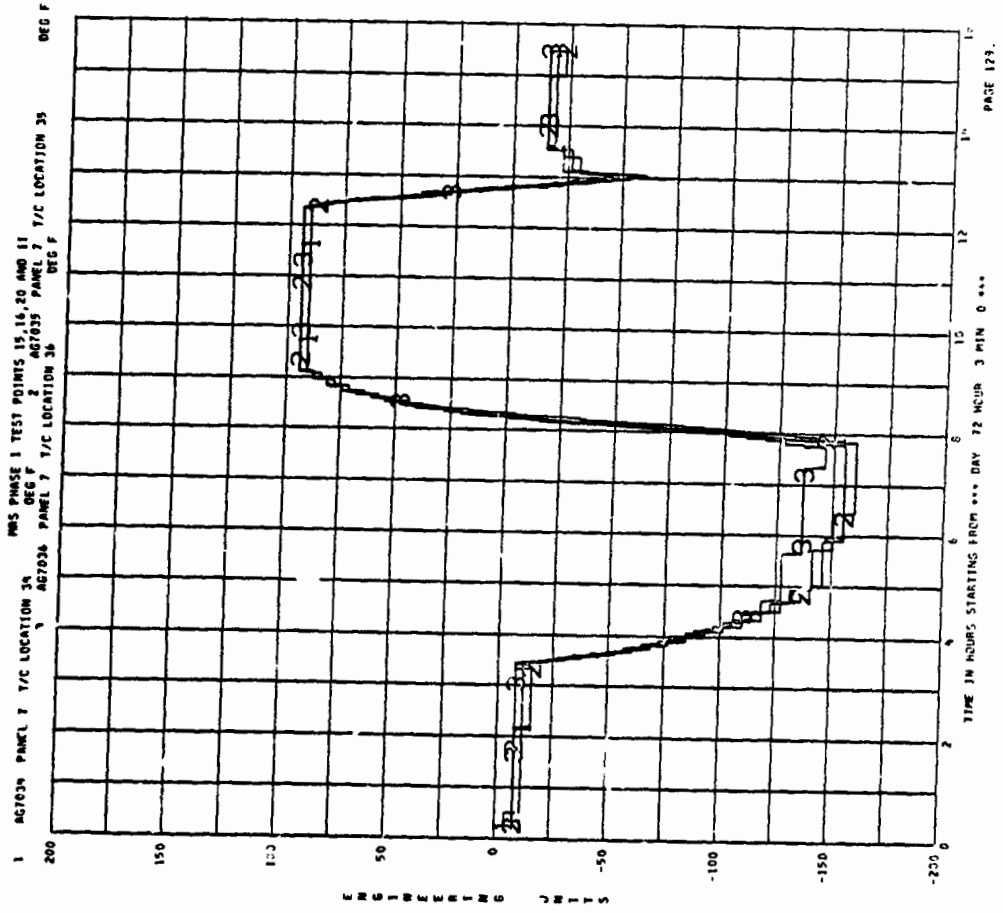


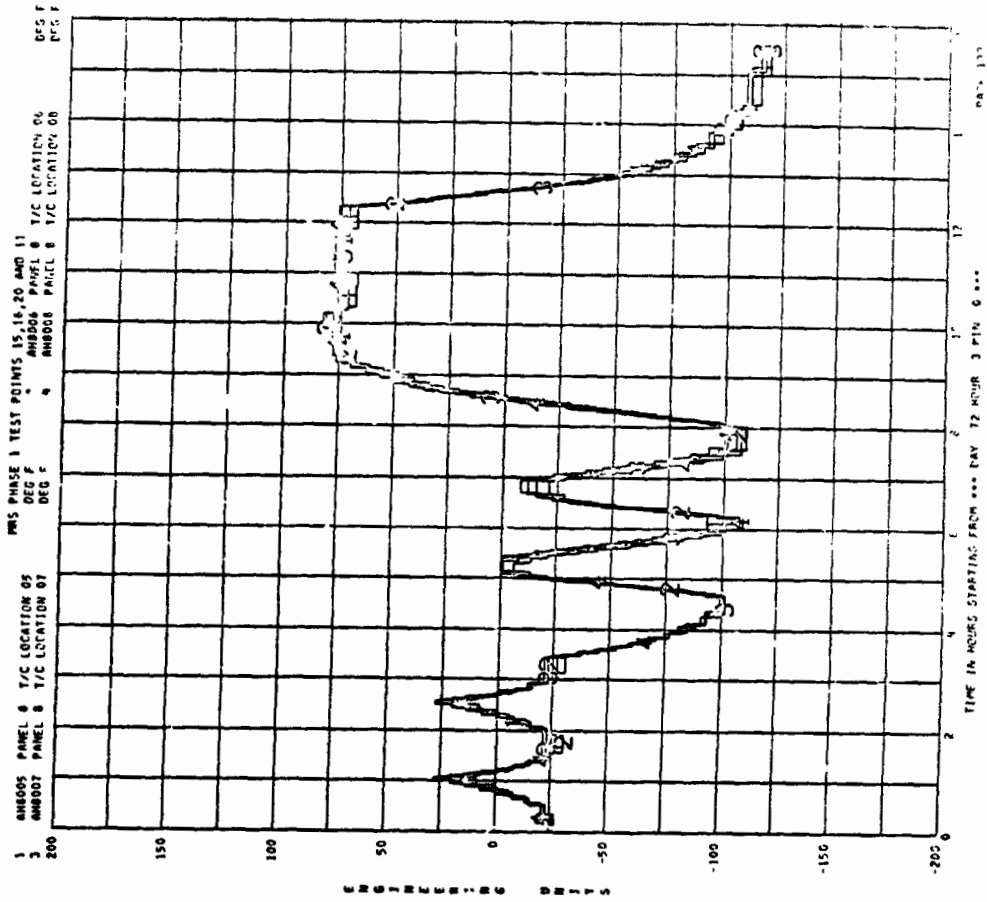
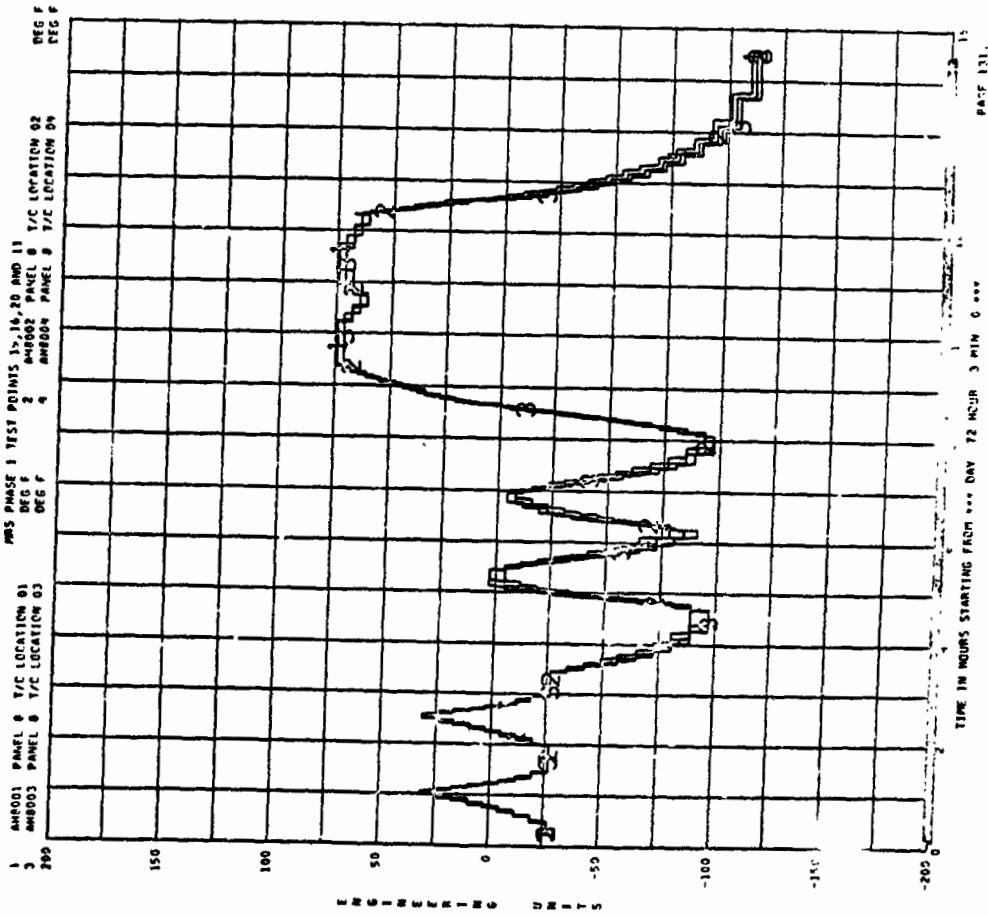


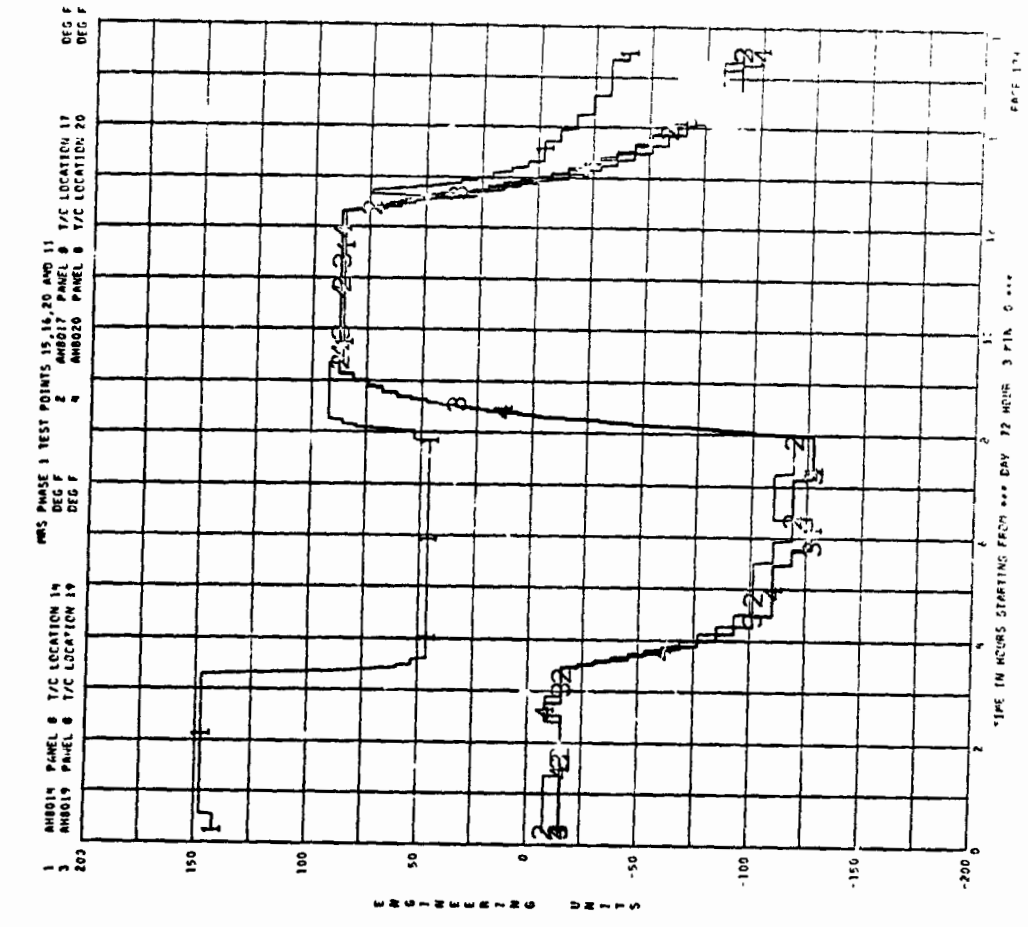
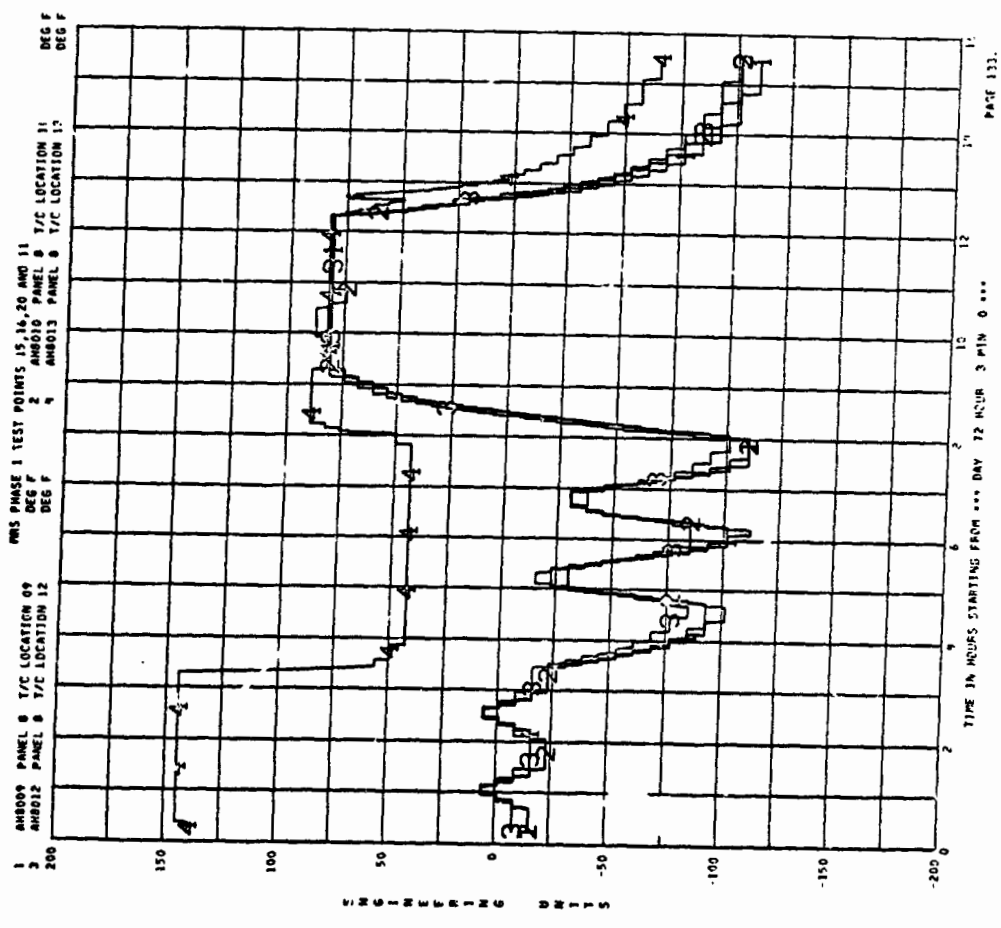


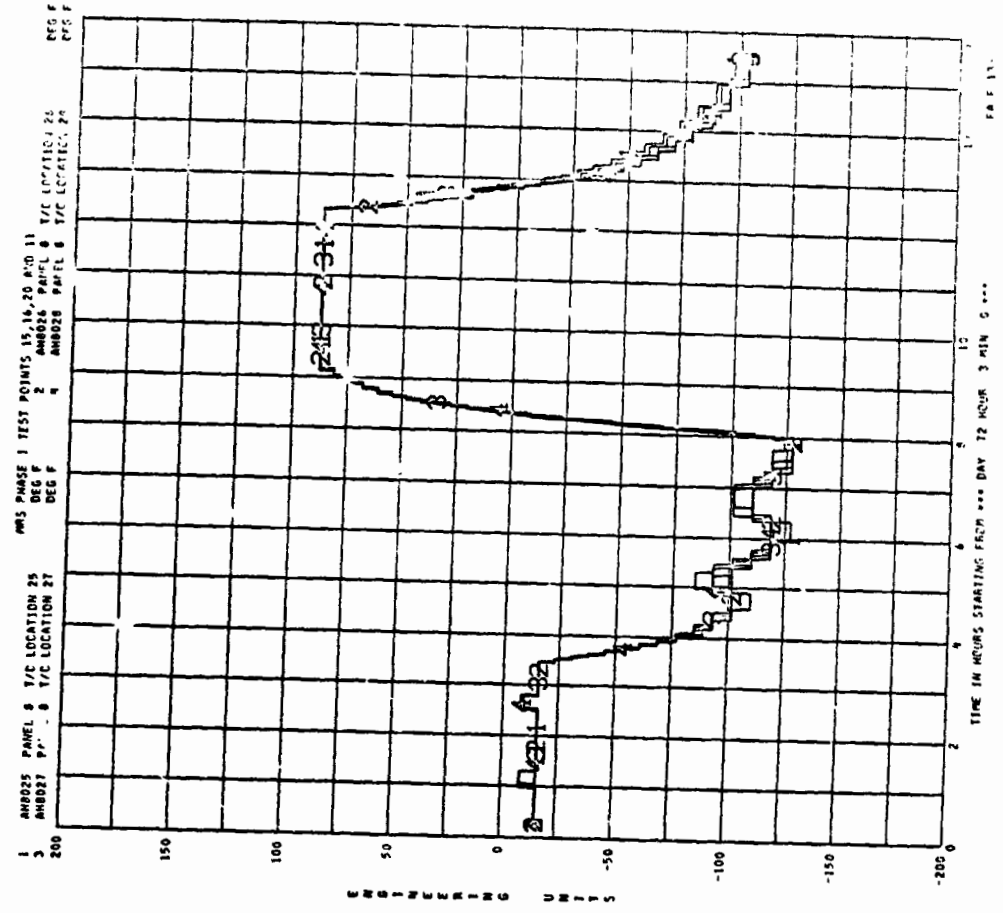
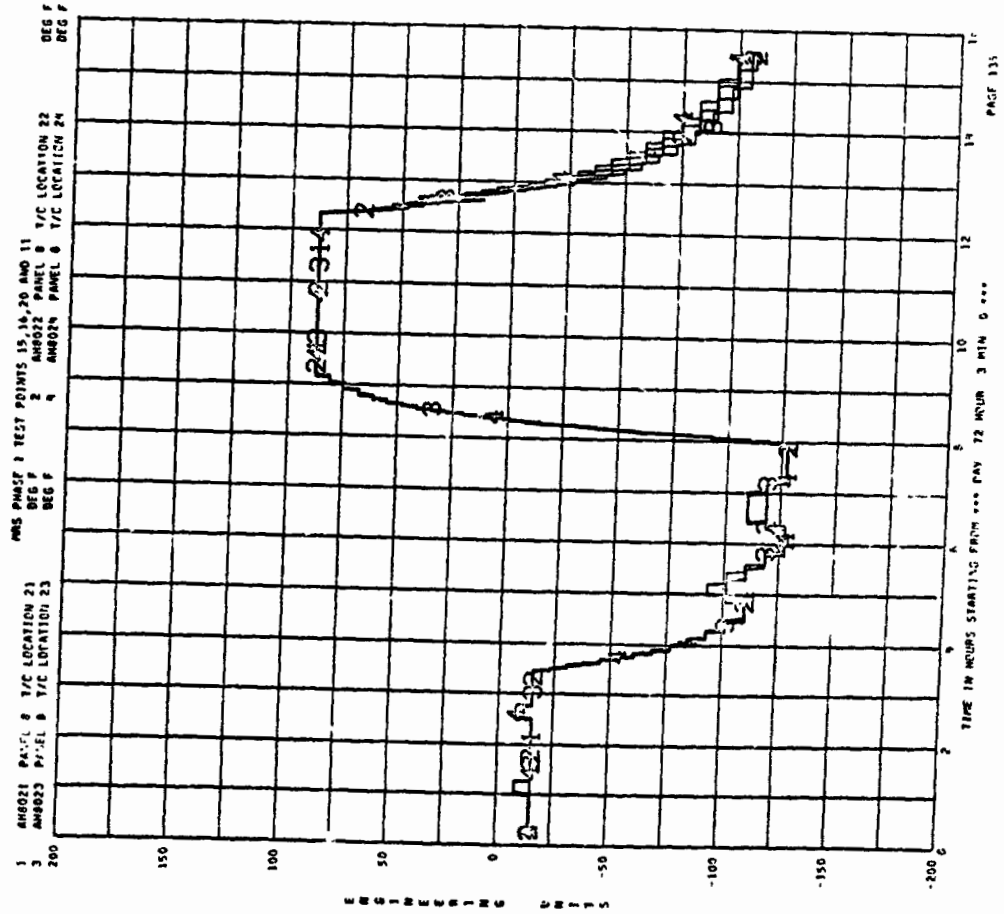


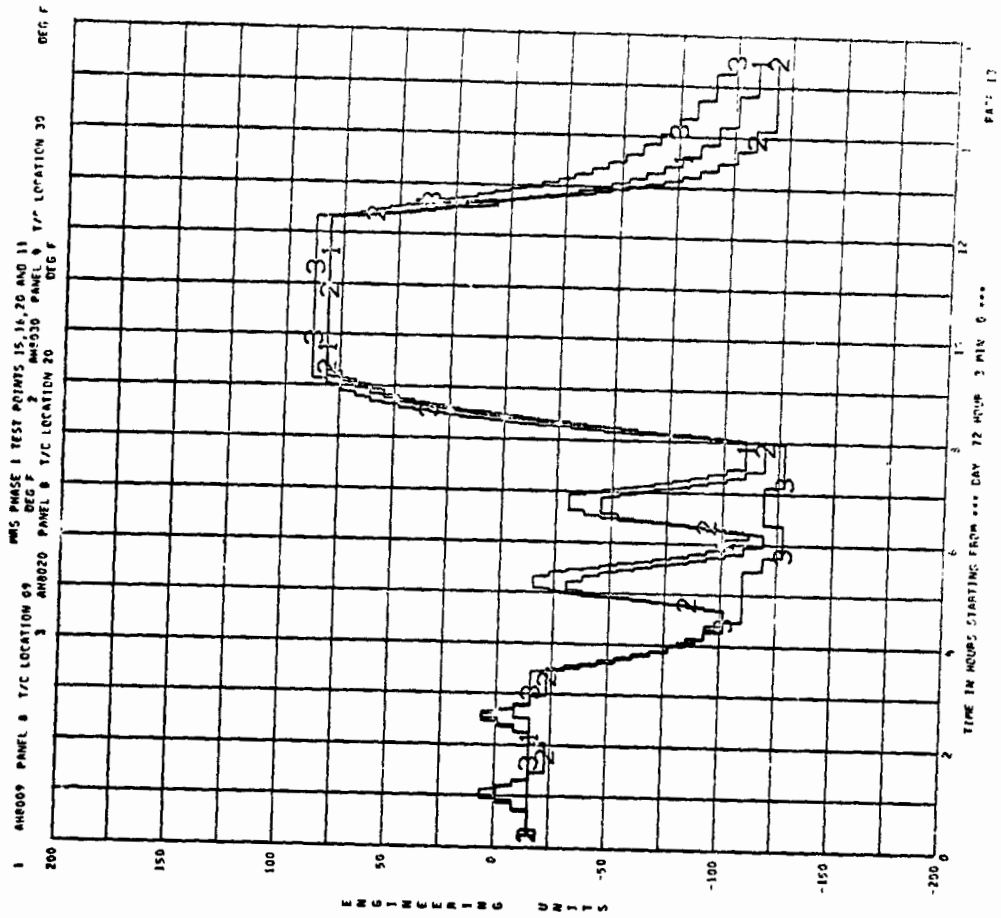
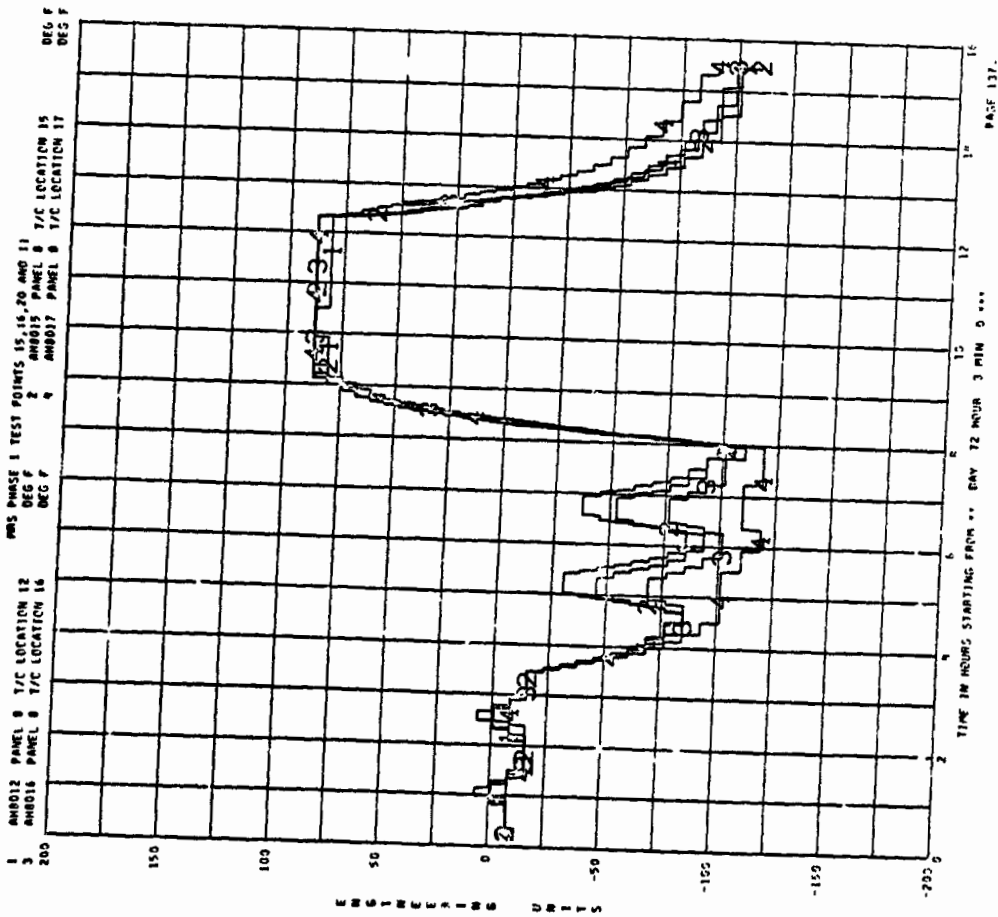


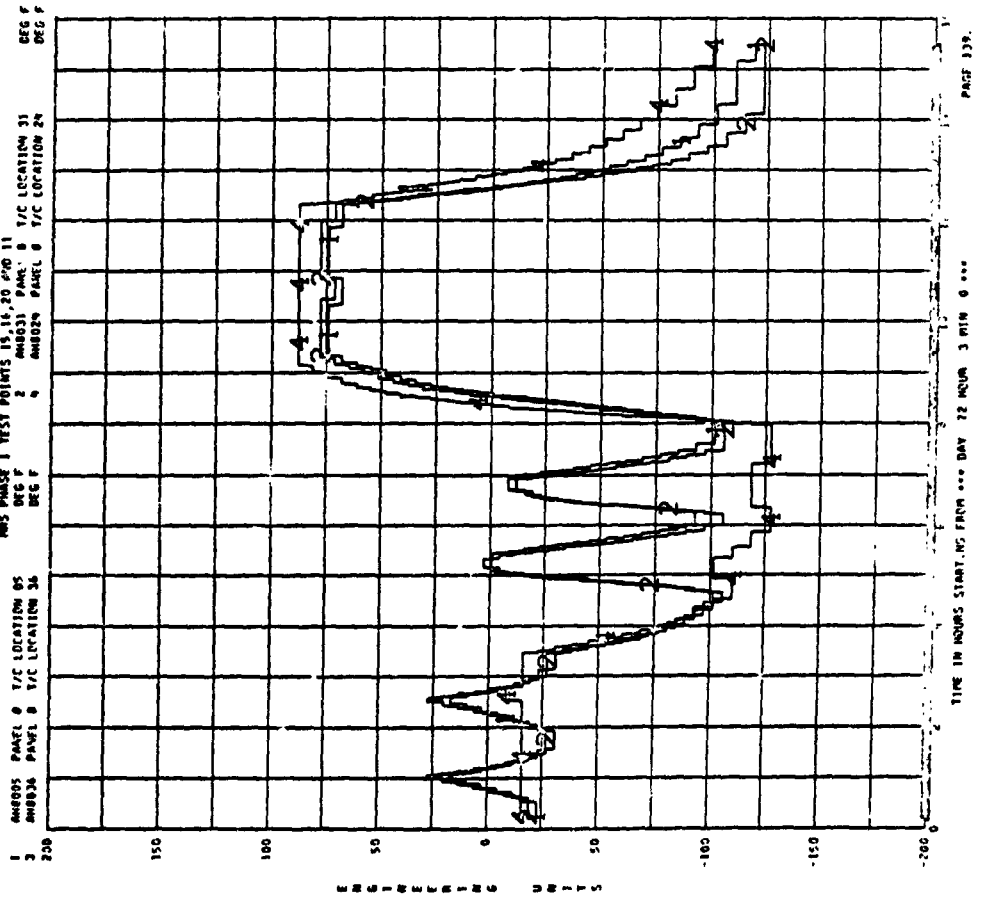
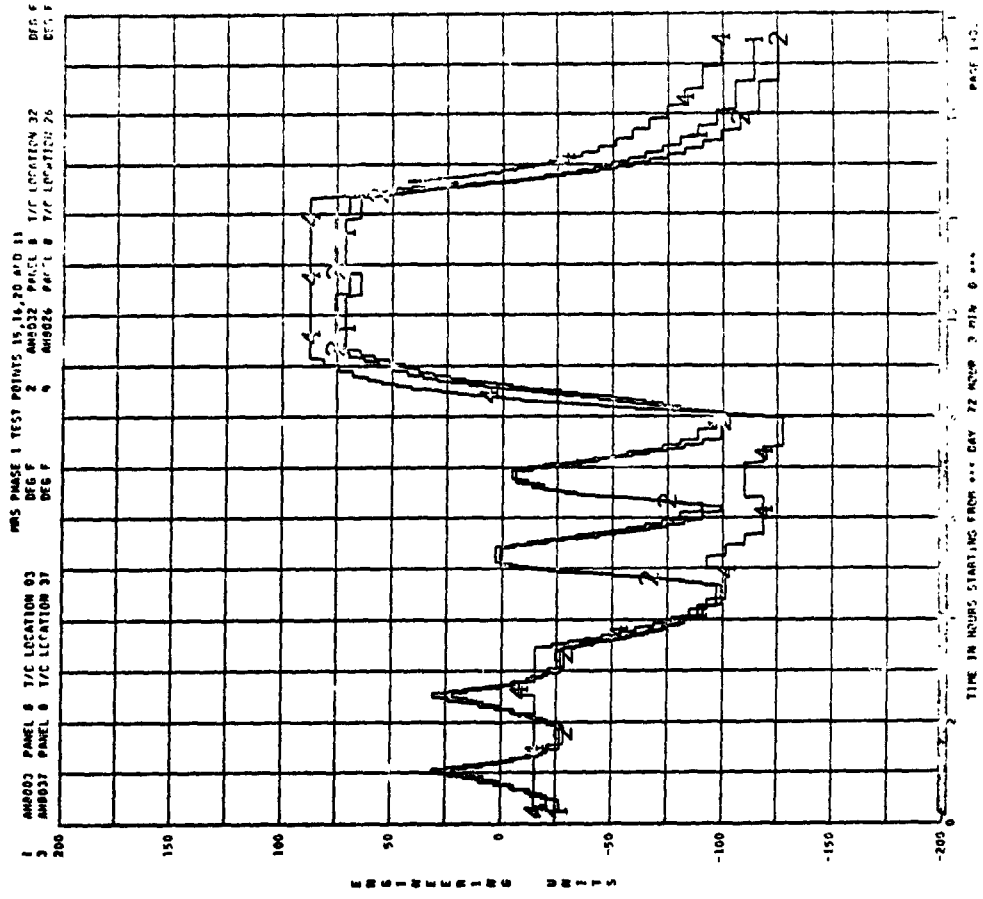


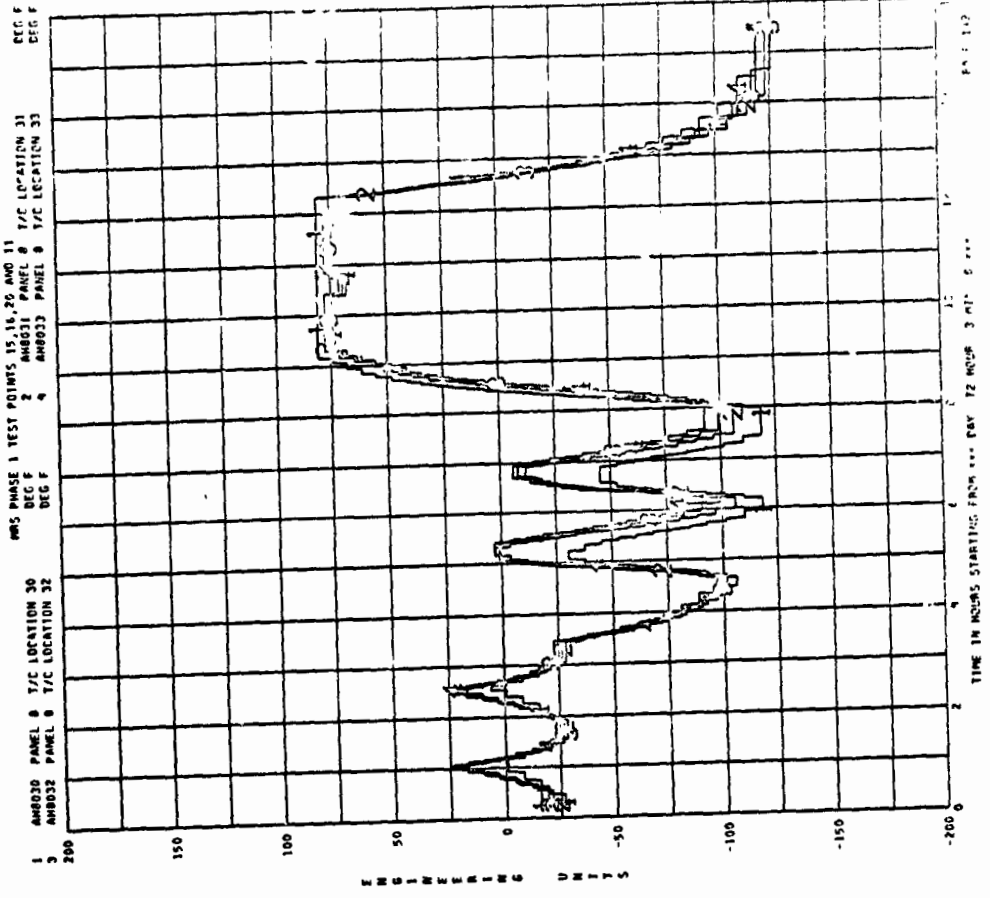




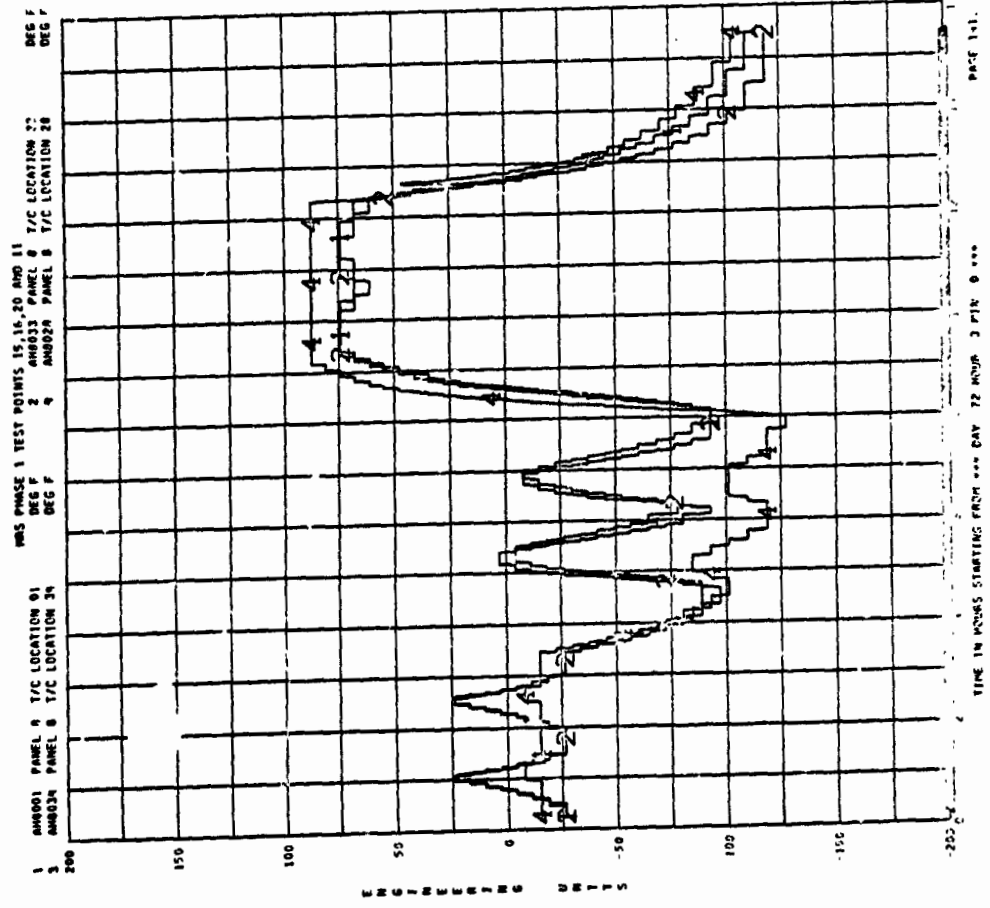




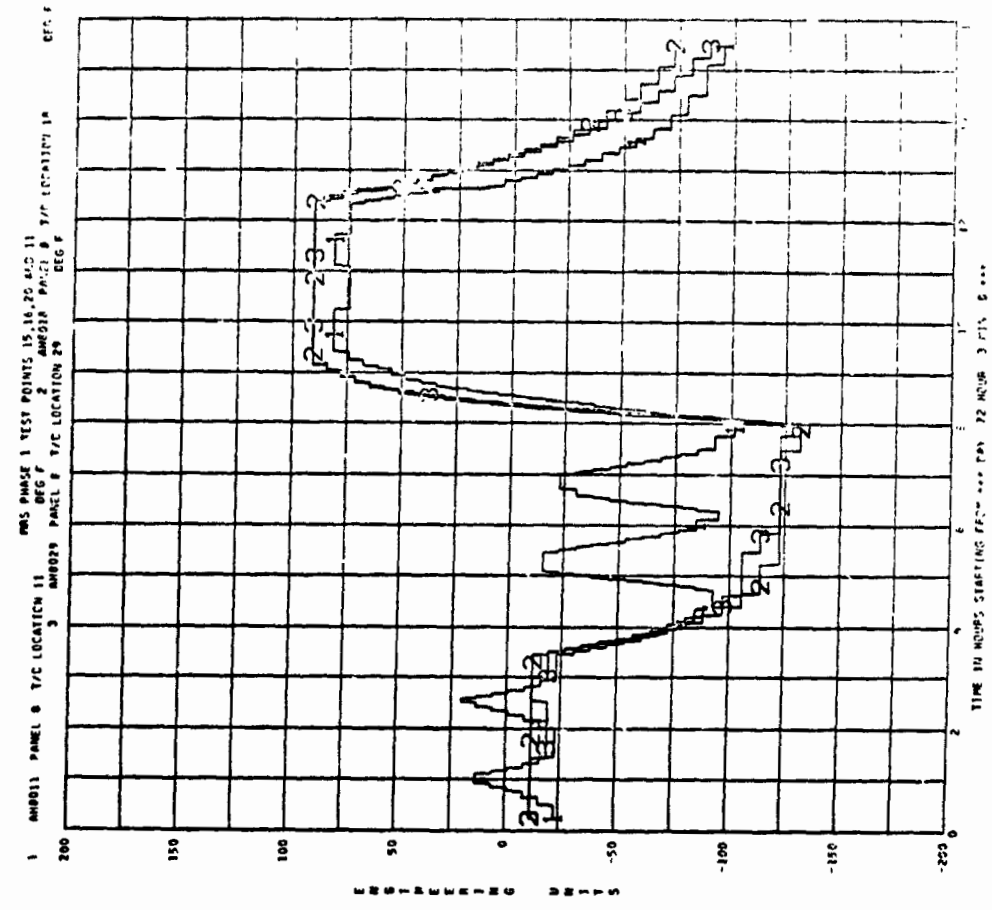
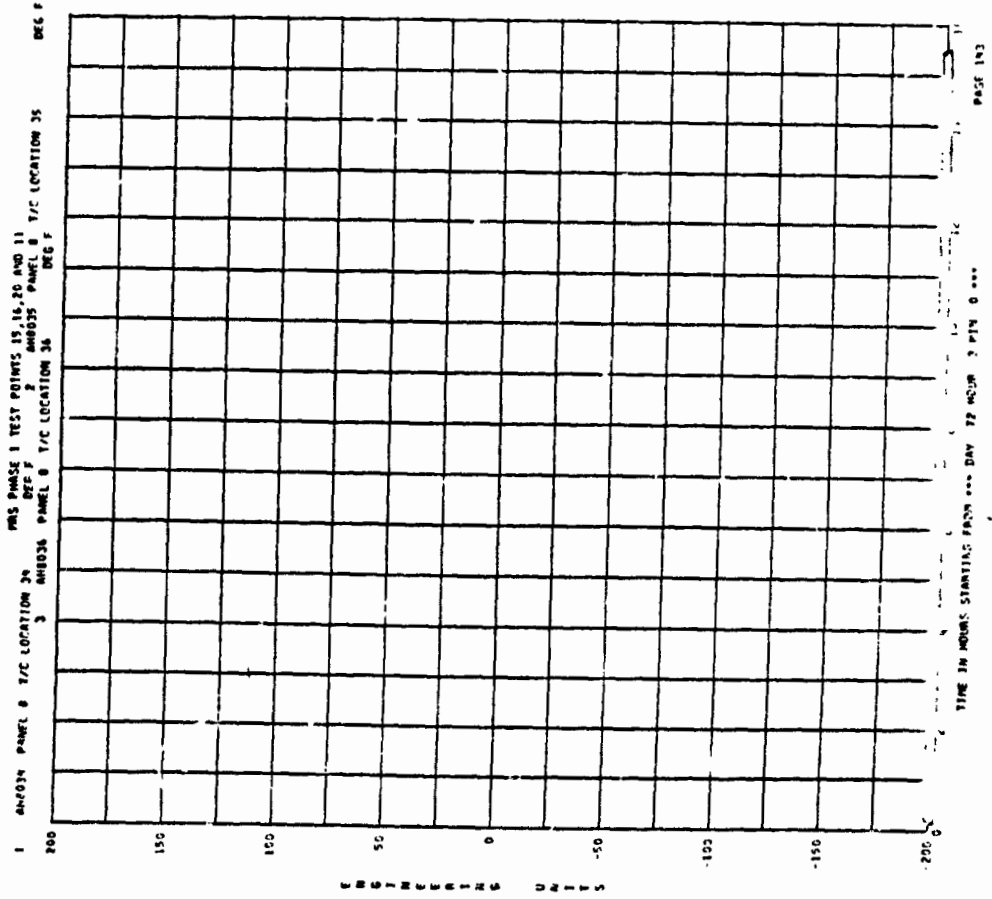




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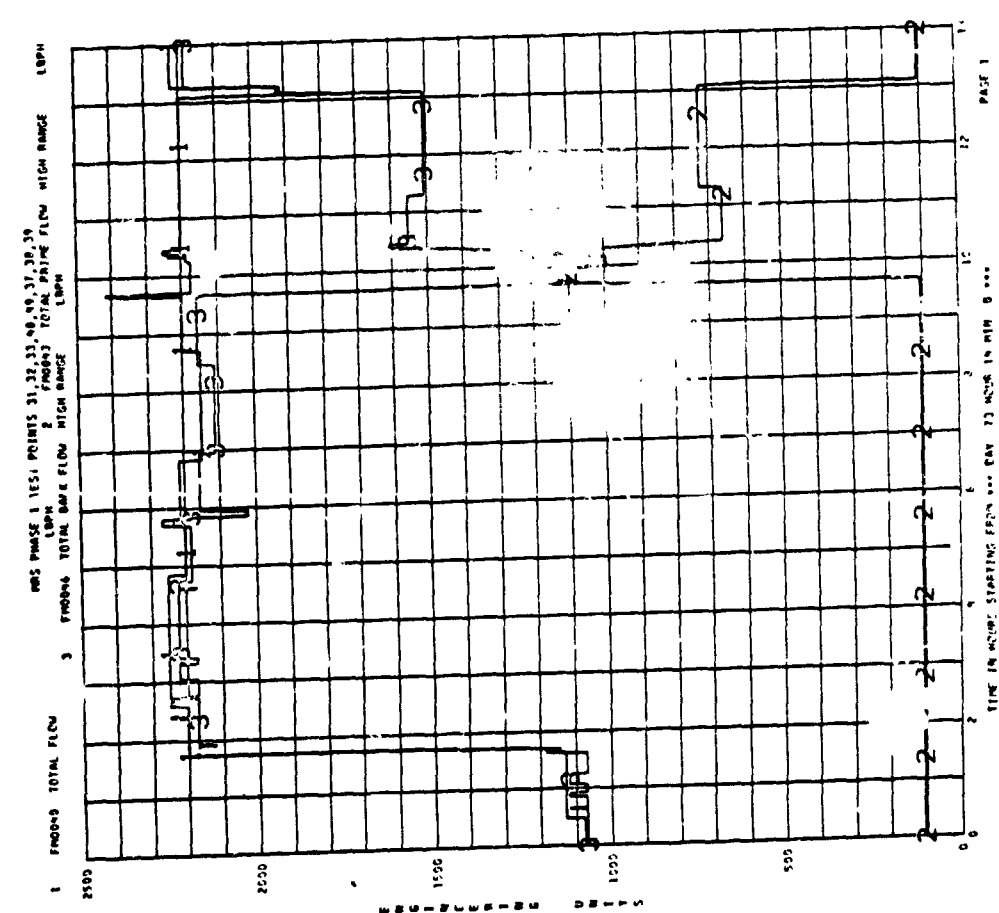
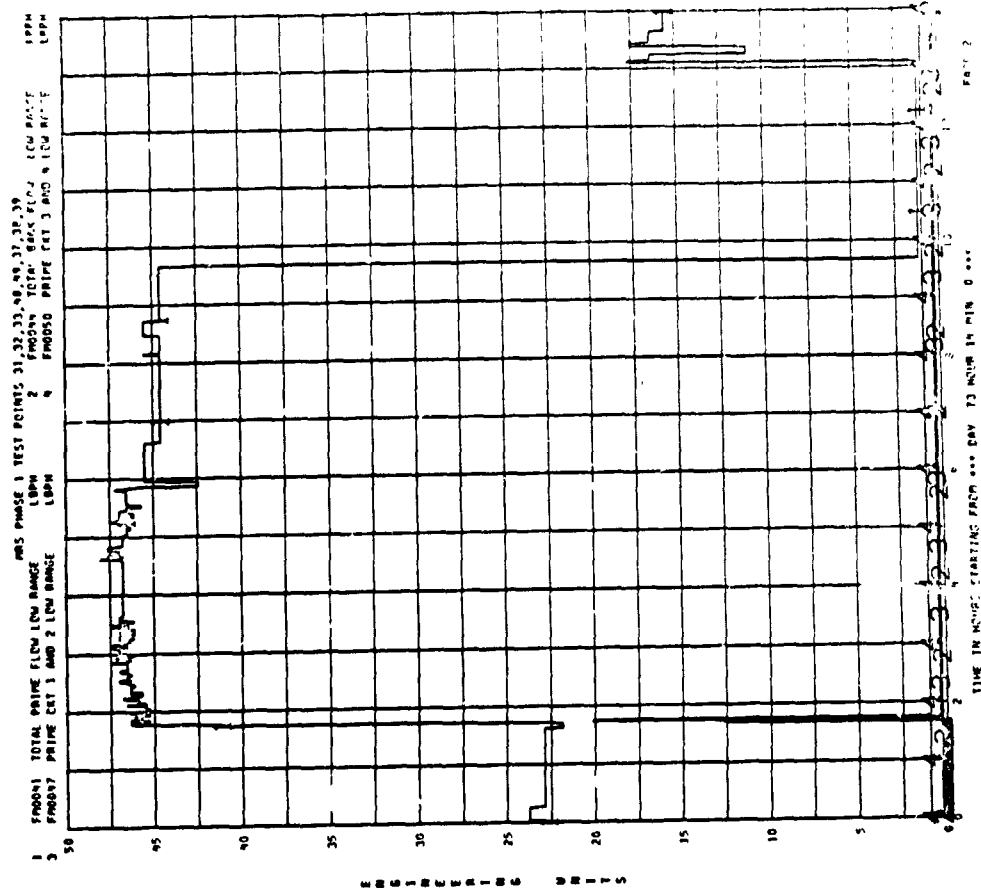


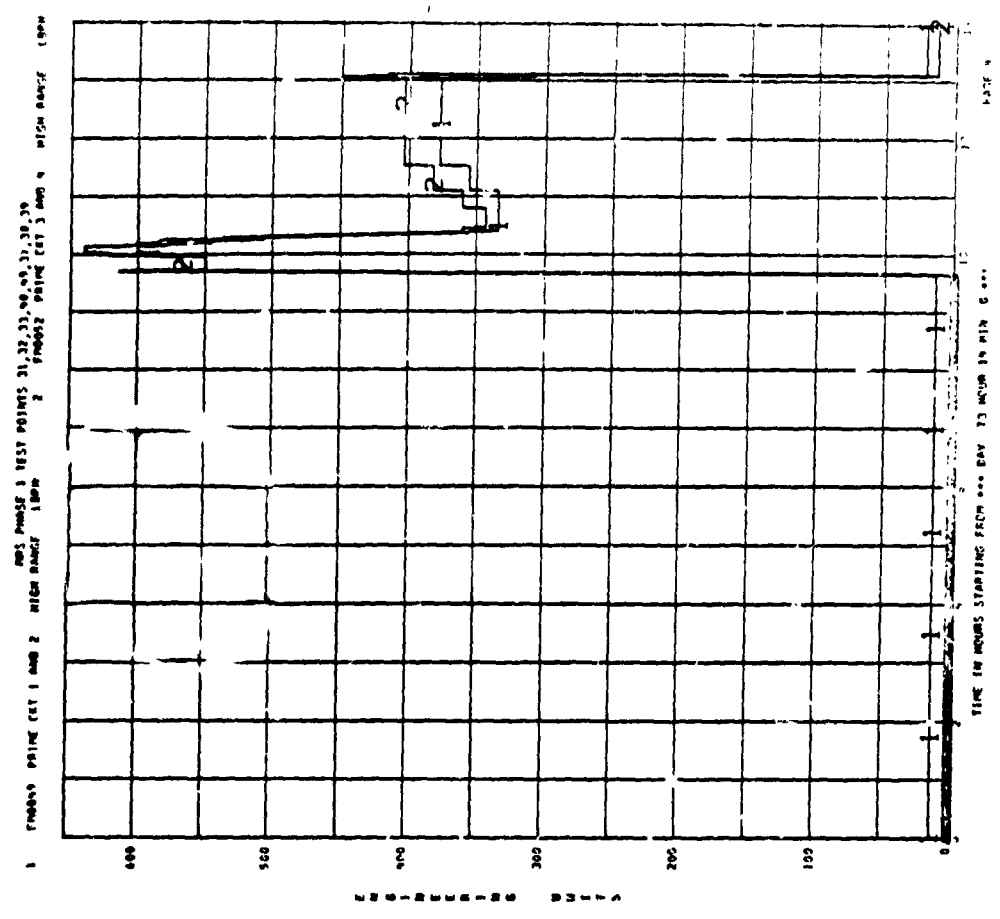
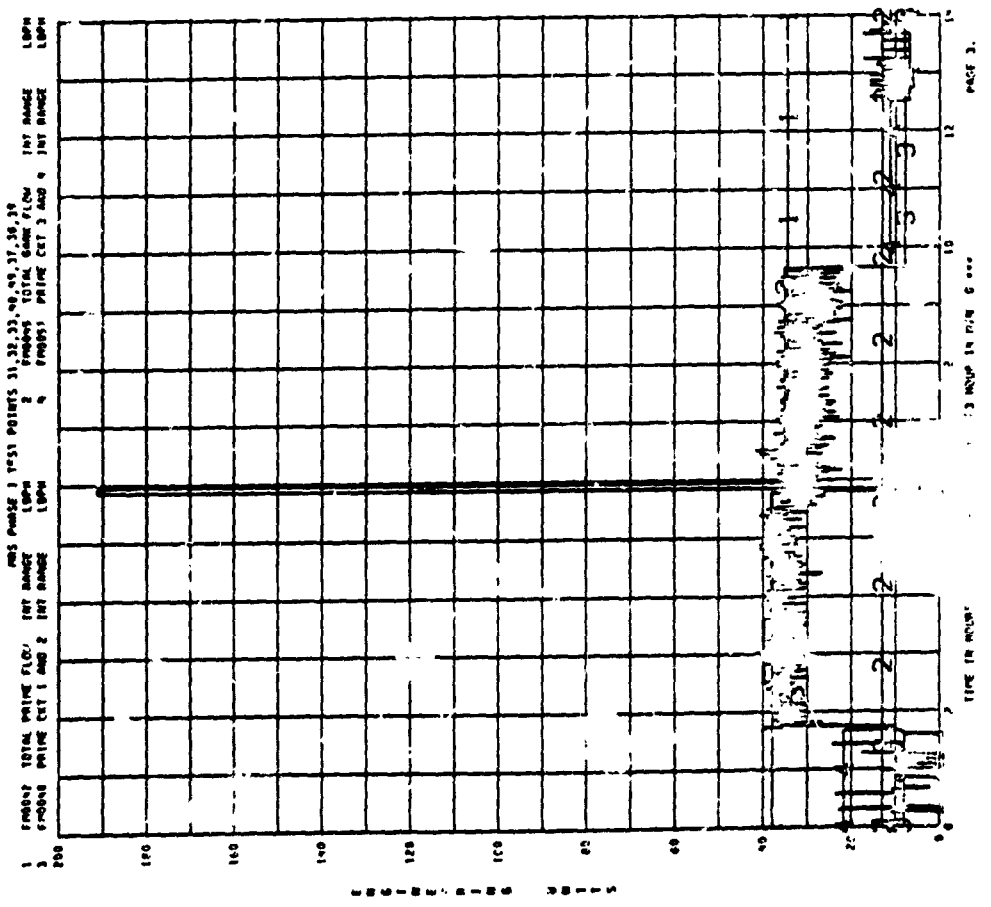
TEST GROUP F

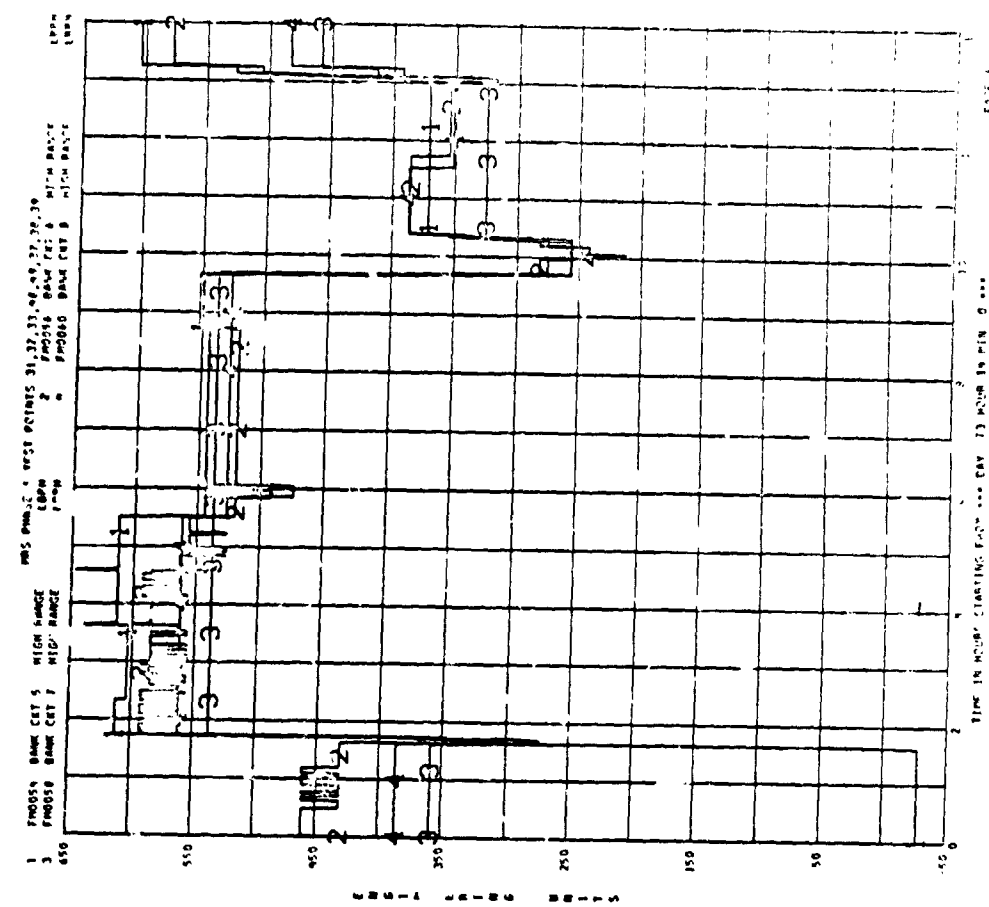
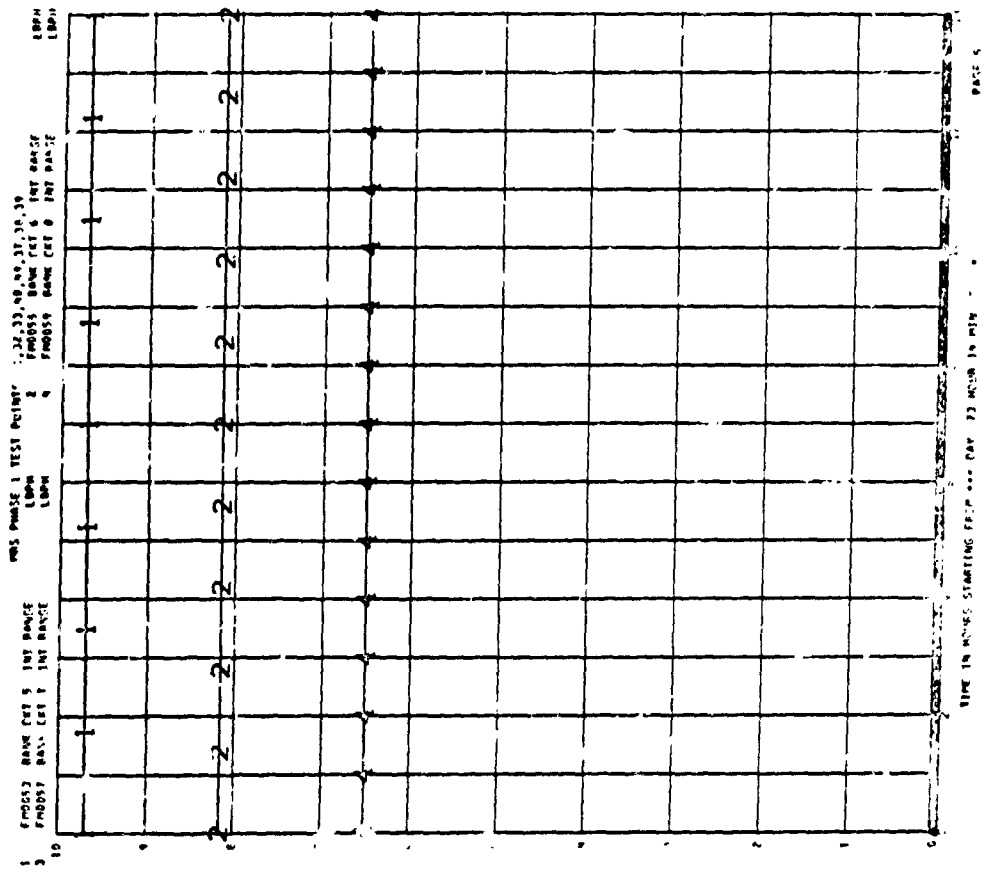
73:14:00 - 74:04:00

INCLUDES TEST POINTS

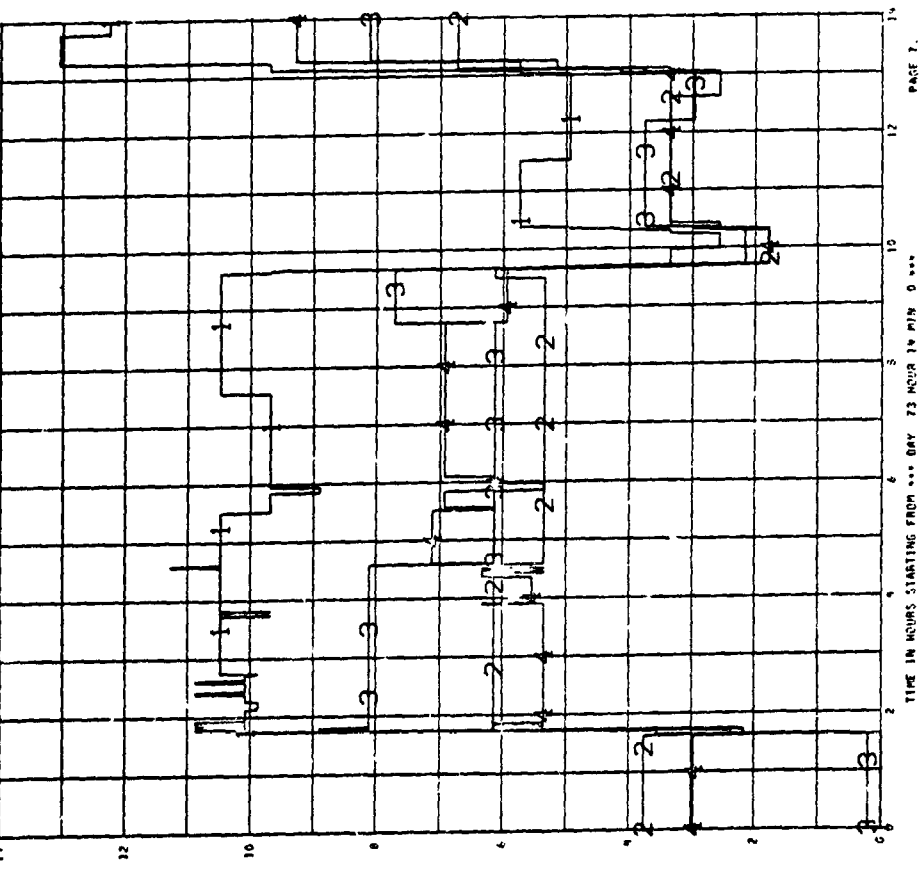
31
32
33
48
49
37
38
39







1 PRODA6 BANK PANEL 1 DELTA PRESSURE PSID
 2 PRODA7 BANK PANEL 2 DELTA PRESSURE PSID
 3 PRODA8 BANK PANEL 3 DELTA PRESSURE PSID
 4 PRODA9 BANK PANEL 4 DELTA PRESSURE PSID
 5 PRODA4 BANK PANEL 1 TEST POINTS 31, 32, 33, 48, 49, 37, 36, 39
 6 PRODA5 BANK PANEL 2 TEST POINTS 31, 32, 33, 48, 49, 37, 36, 39

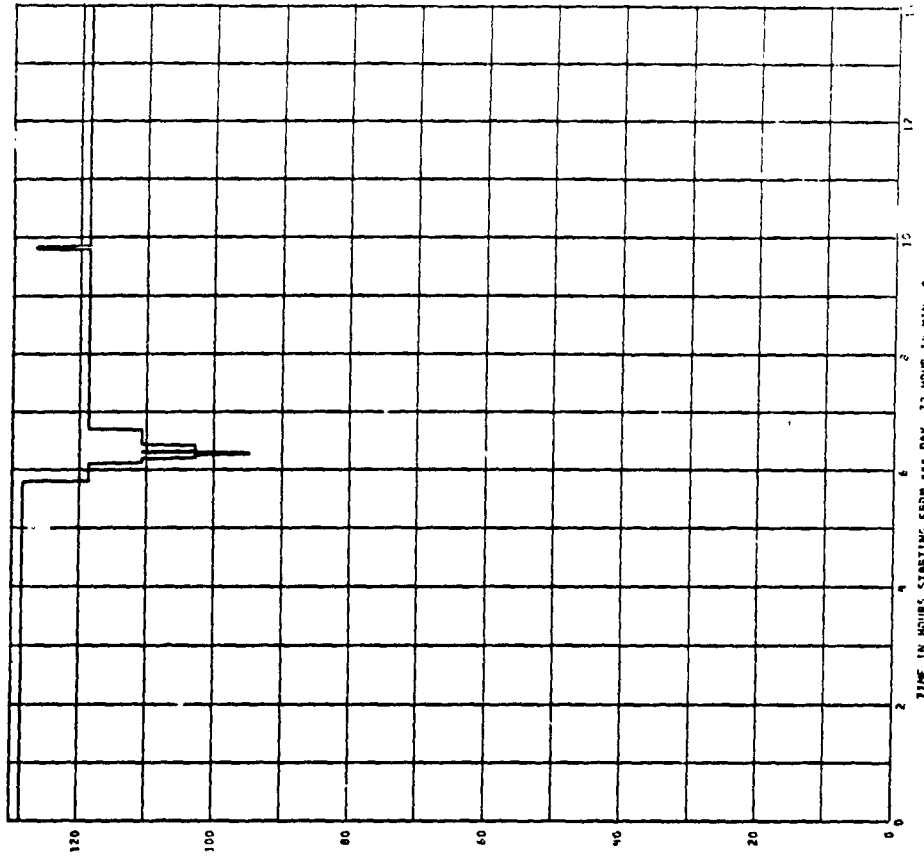


ENGINEERING UNITS

TIME IN HOURS STARTING FROM *** DAY 73 HOUR 14 MIN 0 ***

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1 PRODA6 BANK PANEL 1 TEST POINTS 31, 32, 33, 48, 49, 37, 36, 39
 2 PRODA7 BANK PANEL 2 TEST POINTS 31, 32, 33, 48, 49, 37, 36, 39
 3 PRODA8 BANK PANEL 3 TEST POINTS 31, 32, 33, 48, 49, 37, 36, 39
 4 PRODA9 BANK PANEL 4 TEST POINTS 31, 32, 33, 48, 49, 37, 36, 39

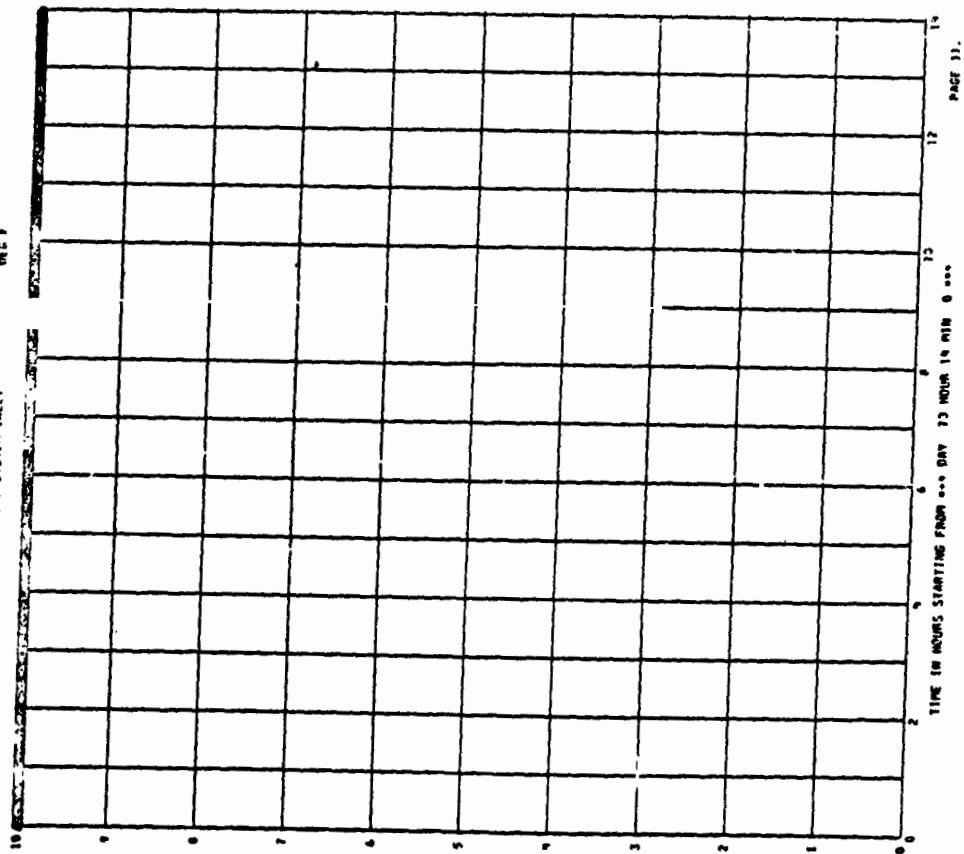


ENGINEERING UNITS

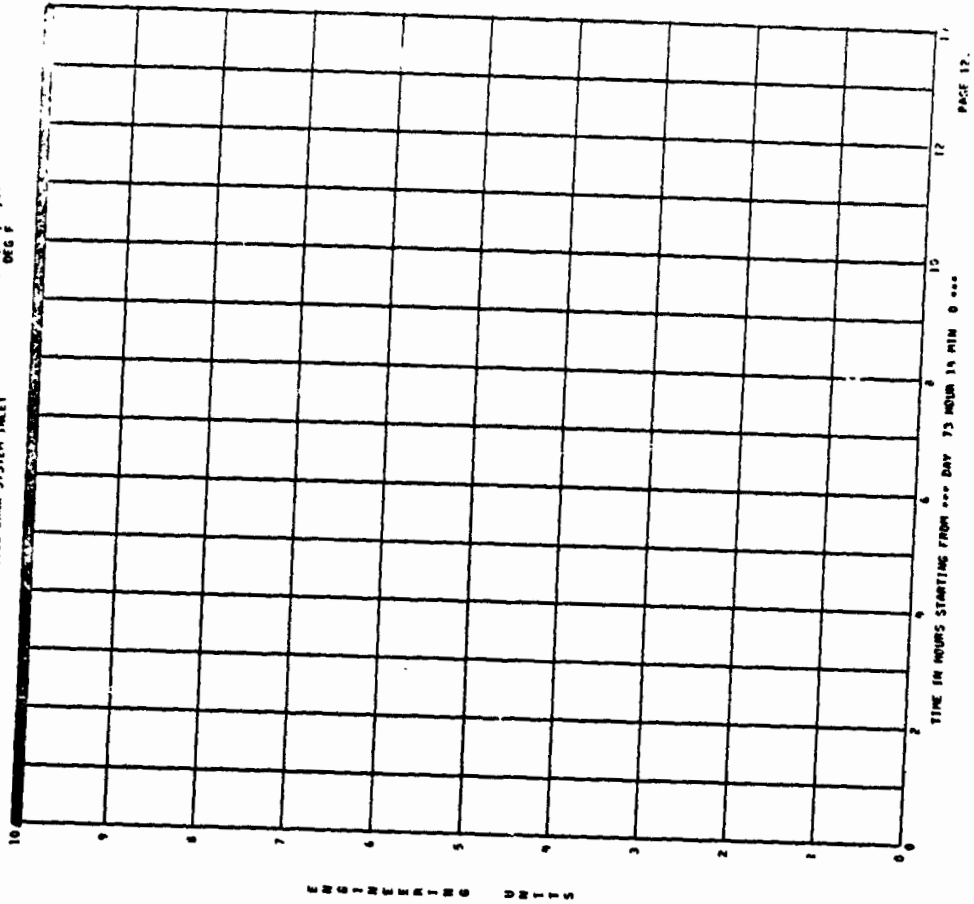
TIME IN HOURS STARTING FROM *** DAY 73 HOUR 14 MIN 0 ***

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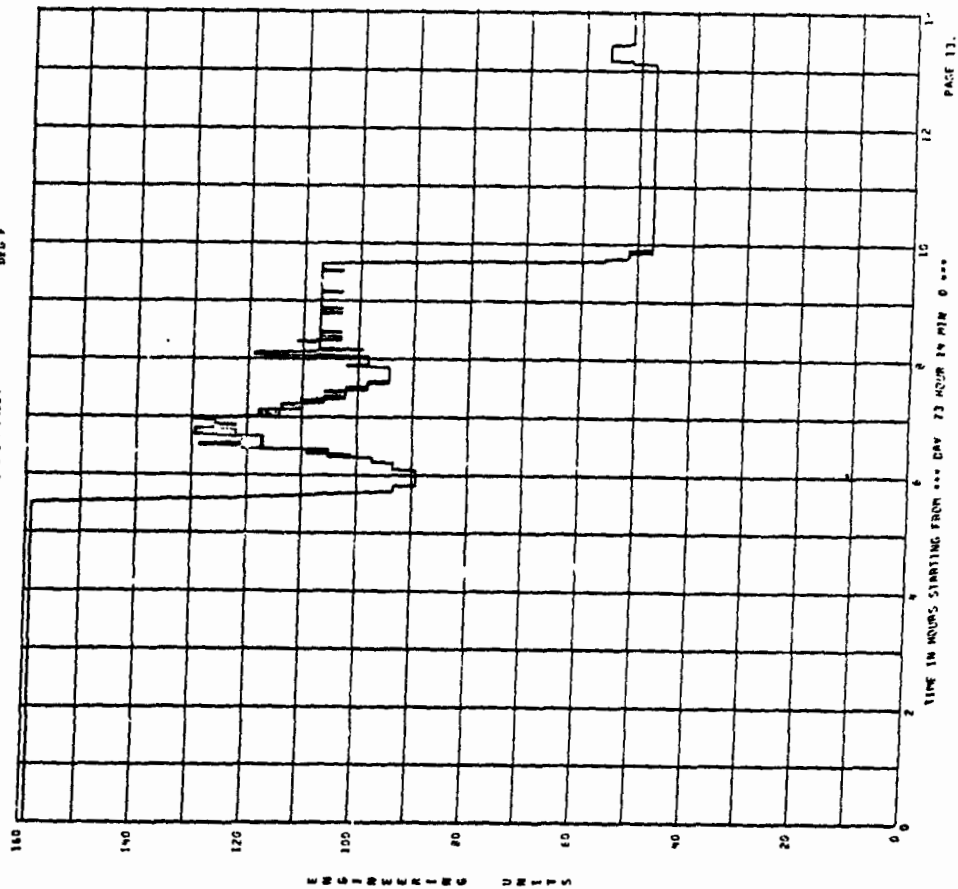
1 RMS PHASE 1 TEST POINTS 31,32,33,40,49,37,36,39
A10001 PRIME SYSTEM INLET DEG F



1 RMS PHASE 1 TEST POINTS 31,32,33,40,49,37,36,39
A10002 BANK SYSTEM INLET DEG F

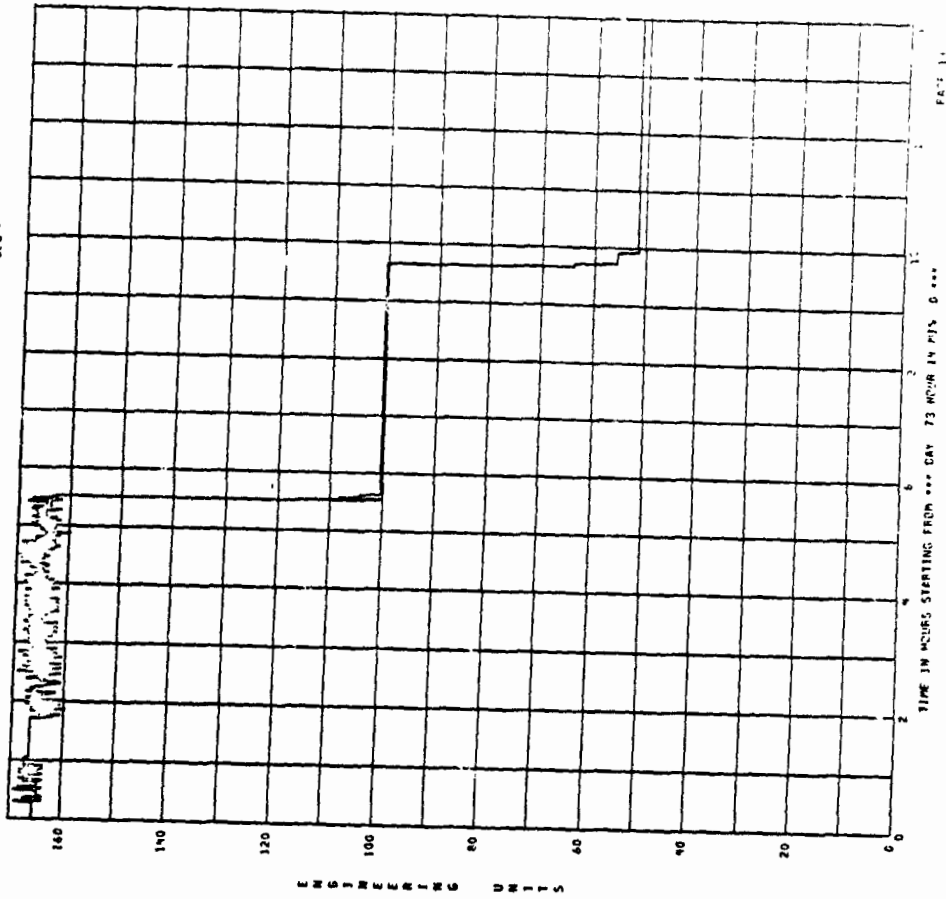


1 RMS PHASE 1 TEST POINTS 21, 22, 23, 49, 49, 49, 37, 38, 39
 A10001 PRIME SYSTEM INLET
 DEG F



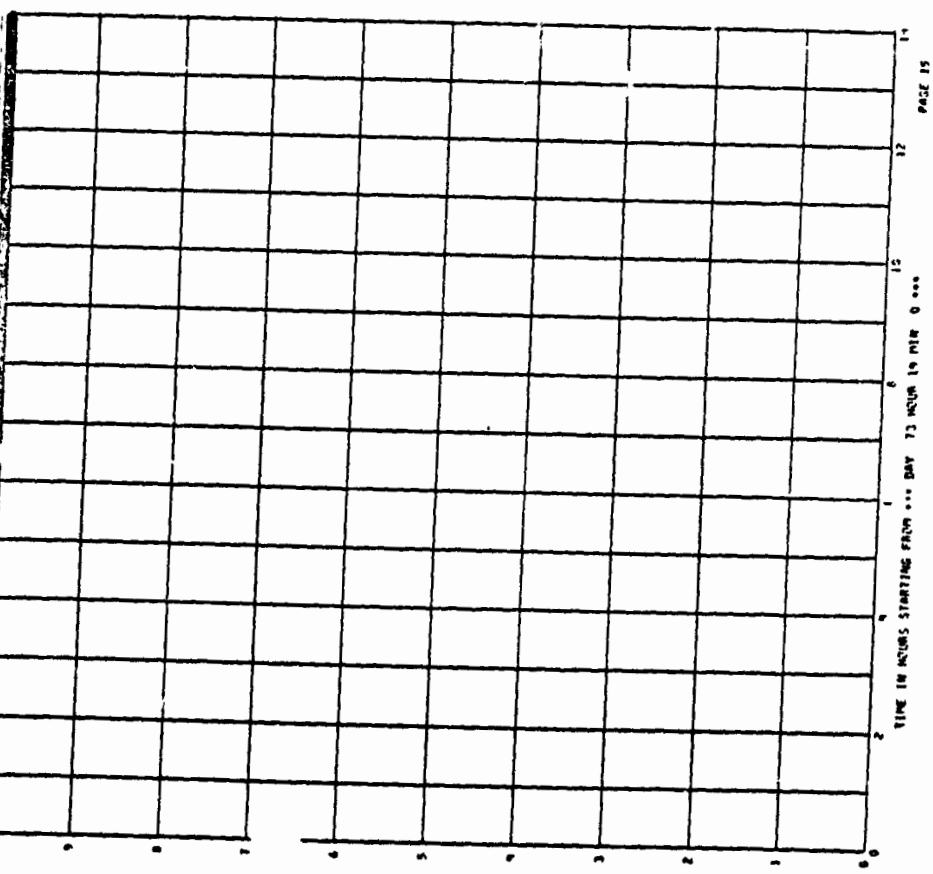
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3 RMS PHASE 1 TEST POINTS 31, 32, 33, 46, 49, 37, 38, 39
 A10002 BANK SYSTEM INLET
 DEG F



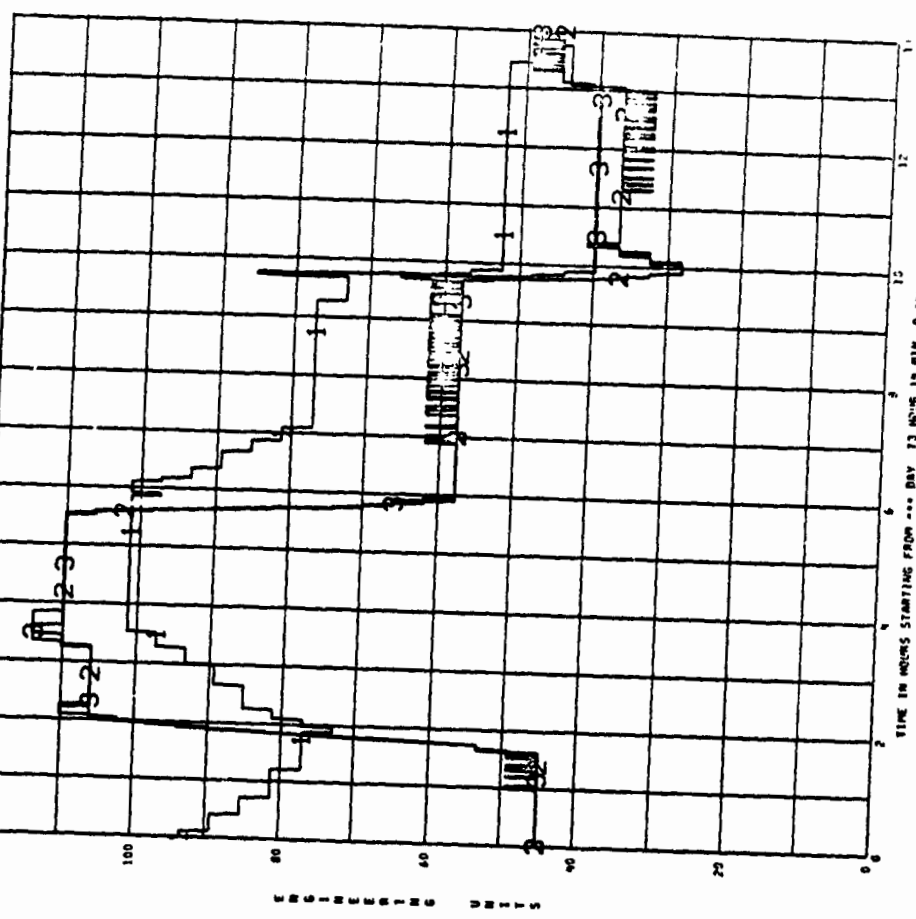
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1 A10019 PRIME TUBES OUTLET MIX IN CH DEG F
 2 A10030 BANK TUBES OUTLET MIX IN CH DEG F
 3 A10039 MIXED BANK AND PRIME DEG F



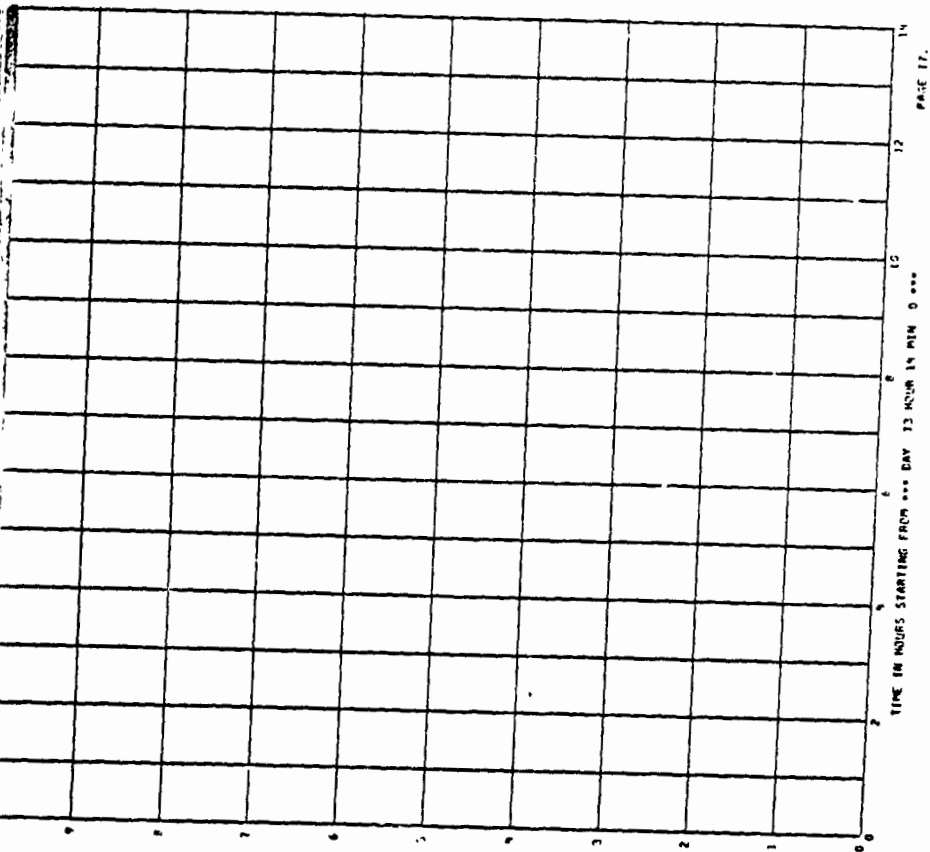
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1 A10019 PRIME TUBES OUTLET MIX IN CH DEG F
 2 A10030 BANK TUBES OUTLET MIX IN CH DEG F
 3 A10039 MIXED BANK AND PRIME DEG F



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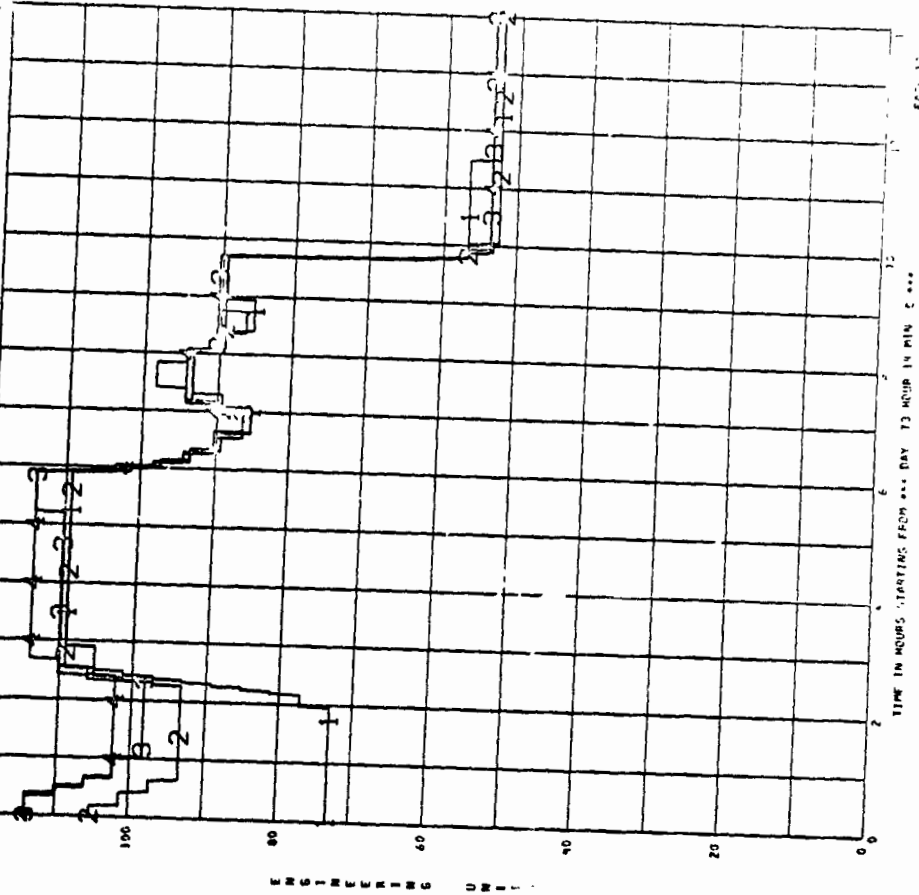
1 A10003 PANEL NO 1 PRIME TUBE INLET DEG F
 3 A10005 PANEL NO 5 PRIME TUBE INLET DEG F
 10 A10006 PANEL NO 6 PRIME TUBE INLET DEG F
 RMS PHASE 1 TEST POINTS 31, 32, 33, 48, 49, 37, 39, 39
 2 A10004 PANEL NO 2 PRIME TUBE INLET DEG F
 4 A10006 PANEL NO 6 PRIME TUBE INLET DEG F



TEMPERATURE IN DEGREES

PAGE 17.

1 A10003 PANEL NO 3 PRIME TUBE INLET DEG F
 3 A10005 PANEL NO 5 PRIME TUBE INLET DEG F
 120 A10006 PANEL NO 6 PRIME TUBE INLET DEG F
 RMS PHASE 1 TEST POINTS 31, 32, 33, 48, 49, 37, 39, 39
 2 A10004 PANEL NO 2 PRIME TUBE INLET DEG F
 4 A10006 PANEL NO 6 PRIME TUBE INLET DEG F

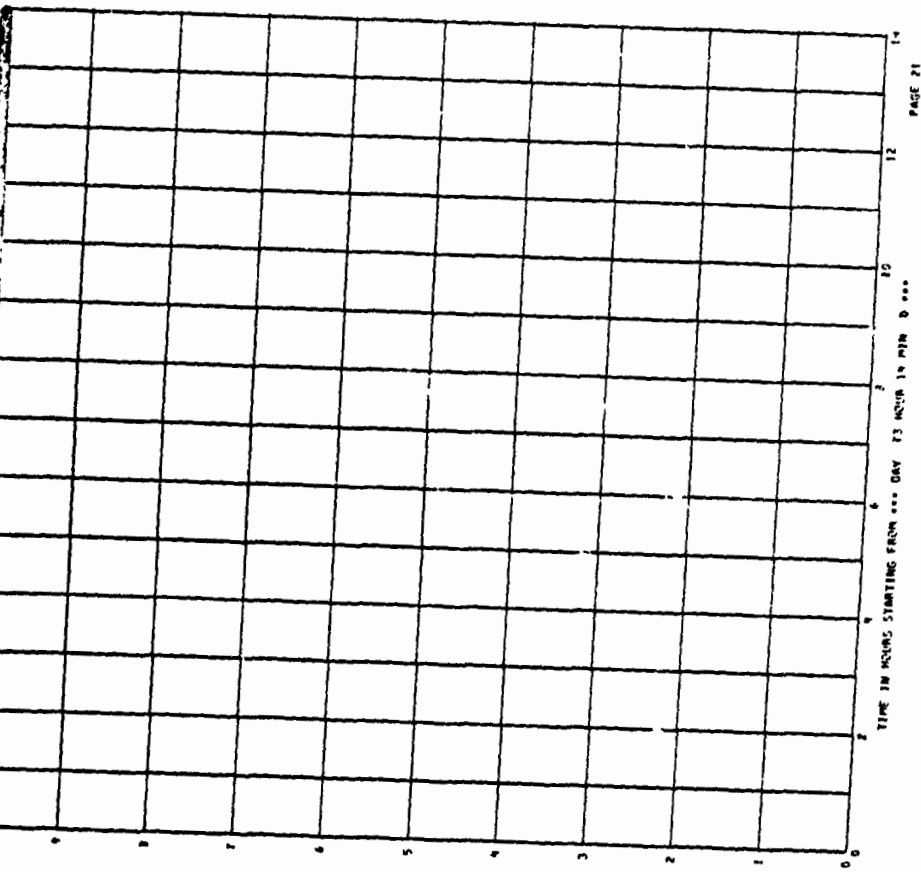


TEMPERATURE IN DEGREES

TIME IN HOURS STARTING FROM ... DAY 13 HOUR IN MIN 0 ...

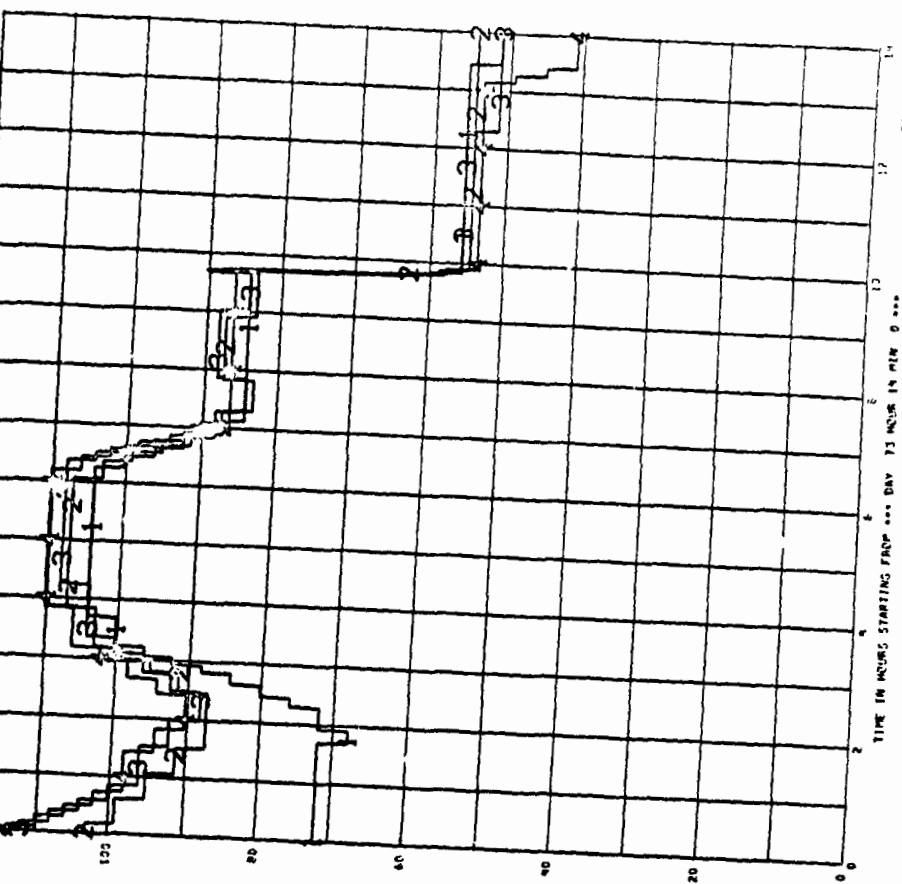
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1 810011 PANEL NO 3 PRIME TUBE INLET DEG F
 2 810012 PANEL NO 4 PRIME TUBE INLET DEG F
 3 810013 PANEL NO 5 PRIME TUBE INLET DEG F
 4 810014 PANEL NO 6 PRIME TUBE INLET DEG F
 5 810015 PANEL NO 7 PRIME TUBE INLET DEG F
 6 810016 PANEL NO 8 PRIME TUBE INLET DEG F
 7 810017 PANEL NO 9 PRIME TUBE INLET DEG F
 8 810018 PANEL NO 10 PRIME TUBE INLET DEG F
 9 810019 PANEL NO 11 PRIME TUBE INLET DEG F
 10 810020 PANEL NO 12 PRIME TUBE INLET DEG F



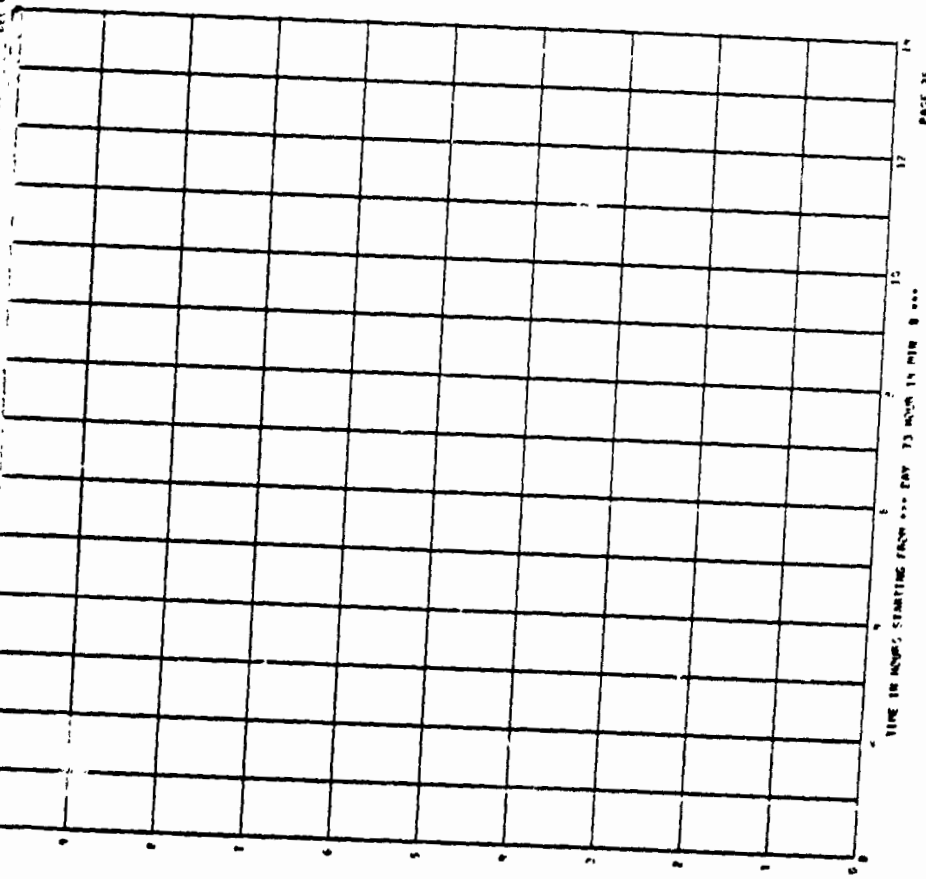
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 2 810012 PANEL NO 4 PRIME TUBE INLET DEG F
 3 810013 PANEL NO 5 PRIME TUBE INLET DEG F
 4 810014 PANEL NO 6 PRIME TUBE INLET DEG F
 5 810015 PANEL NO 7 PRIME TUBE INLET DEG F
 6 810016 PANEL NO 8 PRIME TUBE INLET DEG F
 7 810017 PANEL NO 9 PRIME TUBE INLET DEG F
 8 810018 PANEL NO 10 PRIME TUBE INLET DEG F
 9 810019 PANEL NO 11 PRIME TUBE INLET DEG F
 10 810020 PANEL NO 12 PRIME TUBE INLET DEG F



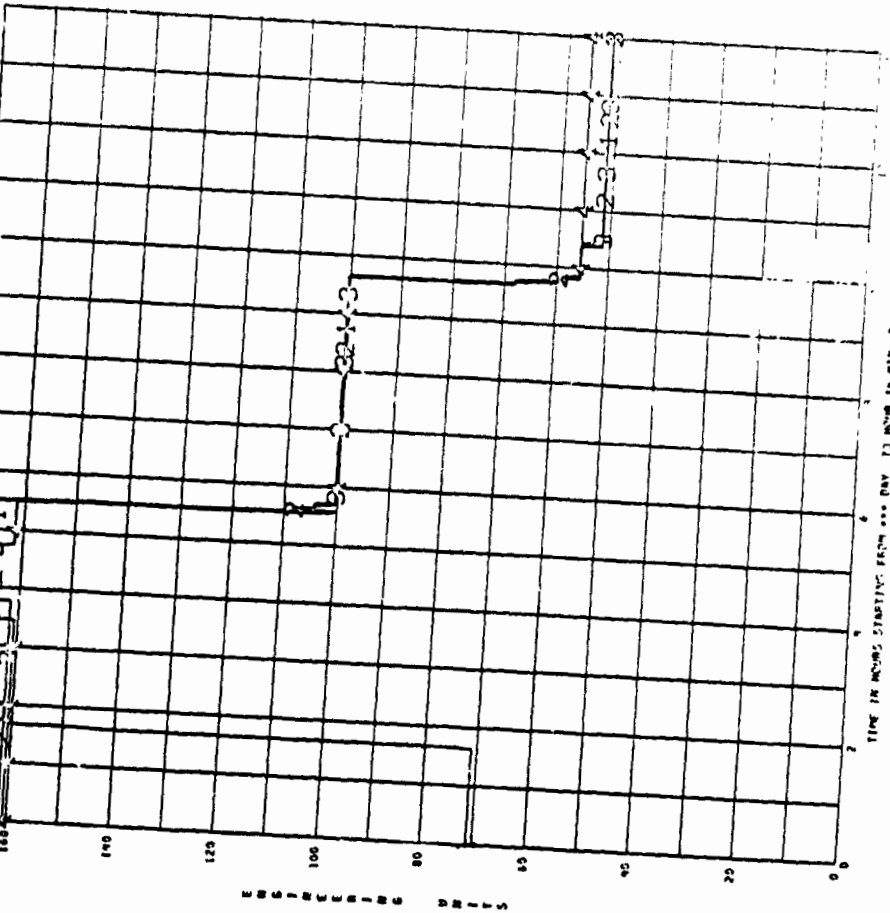
UNRECORDED DATA

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 2 AJ0021 PANEL NO 2 BANK TUBE INLET DEG F
 3 AJ0022 PANEL NO 3 BANK TUBE INLET DEG F
 4 AJ0023 PANEL NO 4 BANK TUBE INLET DEG F



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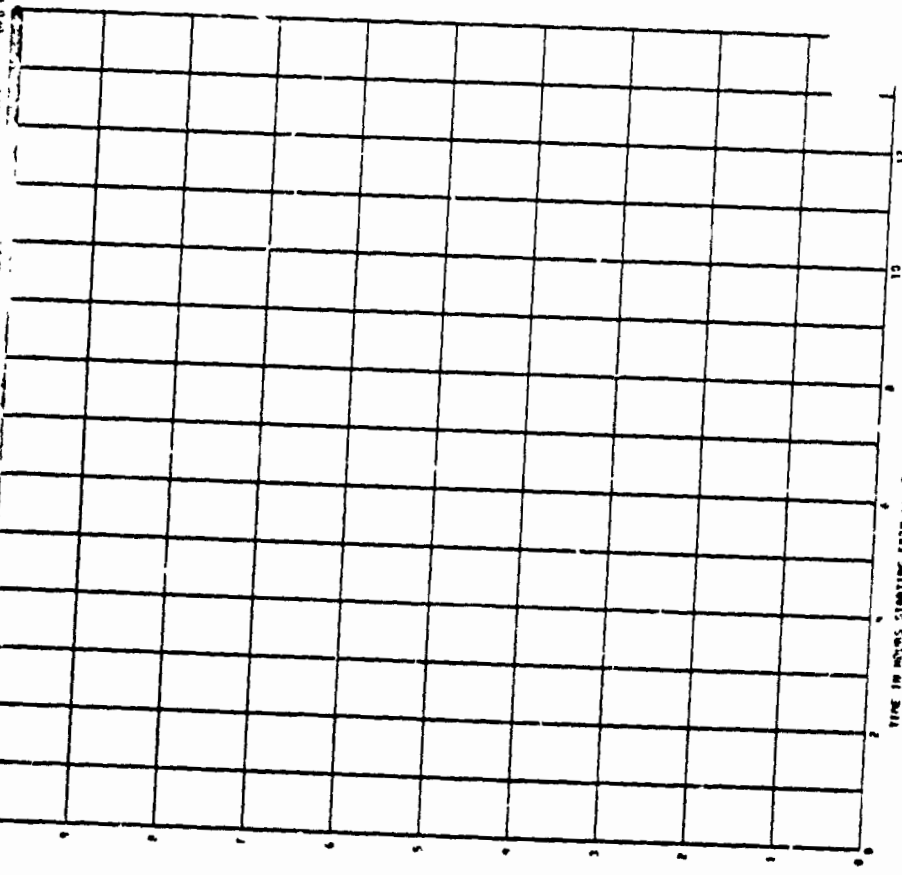
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 2 AJ0021 PANEL NO 2 BANK TUBE INLET DEG F
 3 AJ0022 PANEL NO 3 BANK TUBE INLET DEG F
 4 AJ0023 PANEL NO 4 BANK TUBE INLET DEG F



TIME IN HOURS STARTING FROM ... DAY TO HOUR IN MIN C

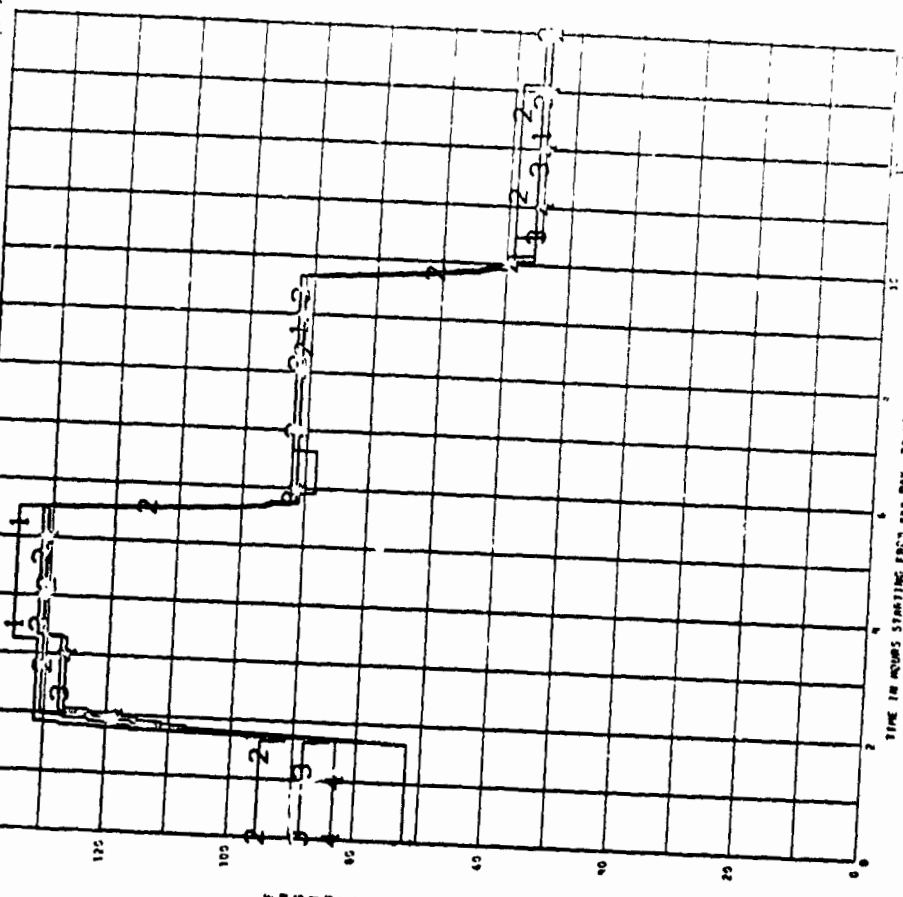
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1. A18024 PANEL NO 1 BANK TIME OUTLET
 REC P
 2. A18024 PANEL NO 2 BANK TIME OUTLET
 REC P
 3. A18024 PANEL NO 3 BANK TIME OUTLET
 REC P
 4. A18024 PANEL NO 4 BANK TIME OUTLET
 REC P
 5. A18024 PANEL NO 5 BANK TIME OUTLET
 REC P
 6. A18024 PANEL NO 6 BANK TIME OUTLET
 REC P
 7. A18024 PANEL NO 7 BANK TIME OUTLET
 REC P
 8. A18024 PANEL NO 8 BANK TIME OUTLET
 REC P
 9. A18024 PANEL NO 9 BANK TIME OUTLET
 REC P
 10. A18024 PANEL NO 10 BANK TIME OUTLET
 REC P



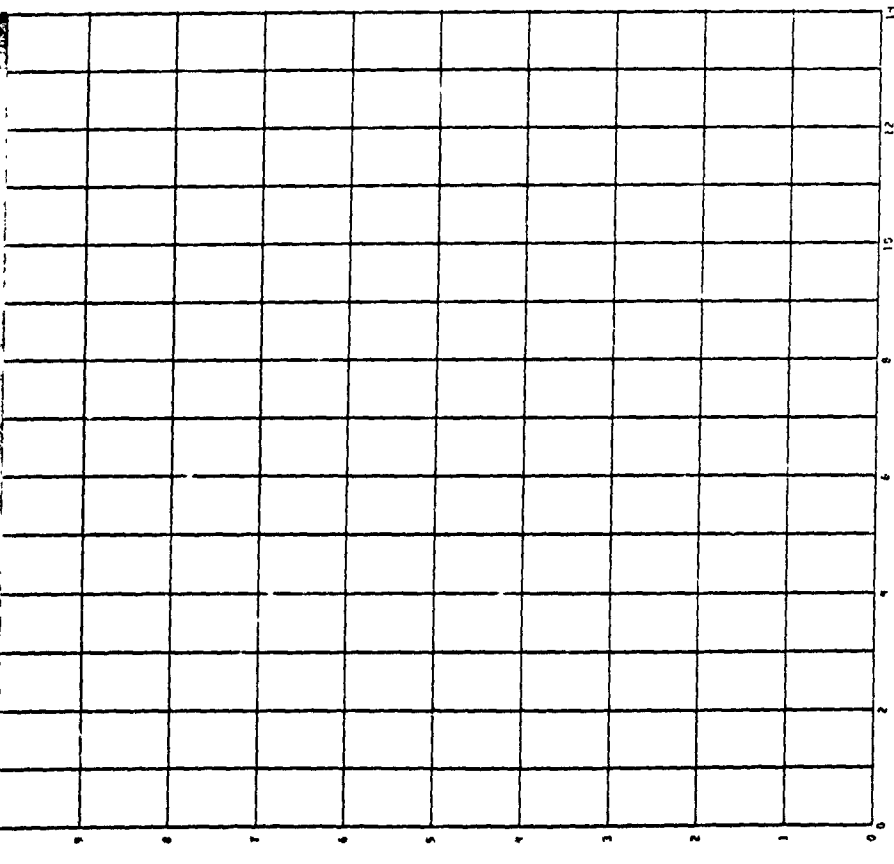
PAGE 27.

1. A18024 PANEL NO 1 BANK TIME OUTLET
 REC P
 2. A18024 PANEL NO 2 BANK TIME OUTLET
 REC P
 3. A18024 PANEL NO 3 BANK TIME OUTLET
 REC P
 4. A18024 PANEL NO 4 BANK TIME OUTLET
 REC P
 5. A18024 PANEL NO 5 BANK TIME OUTLET
 REC P
 6. A18024 PANEL NO 6 BANK TIME OUTLET
 REC P
 7. A18024 PANEL NO 7 BANK TIME OUTLET
 REC P
 8. A18024 PANEL NO 8 BANK TIME OUTLET
 REC P
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 REC P
 10. A18024 PANEL NO 10 BANK TIME OUTLET
 REC P



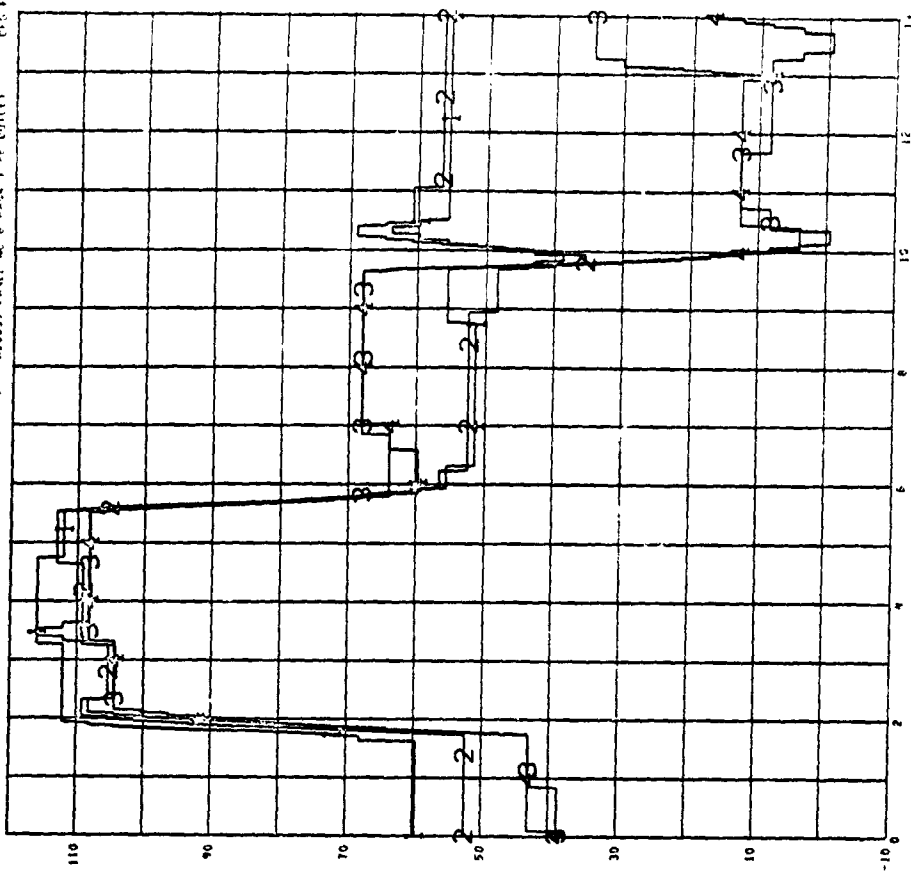
PAGE 28.

1 A10032 PANEL NO 3 BANK TURF OUTLET DEG F
 2 A10033 PANEL NO 7 BANK TURF OUTLET DEG F
 3 A10034 PANEL NO 8 BANK TURF OUTLET DEG F
 4 A10035 PANEL NO 9 BANK TURF OUTLET DEG F

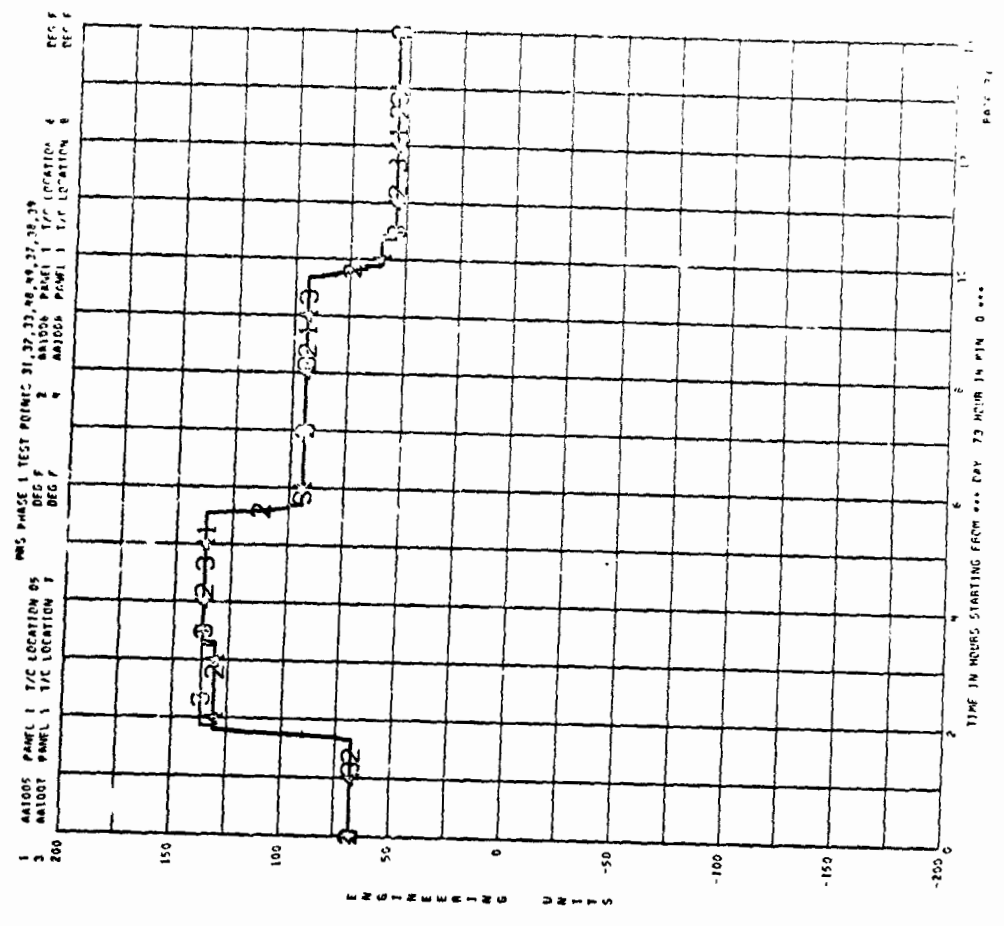
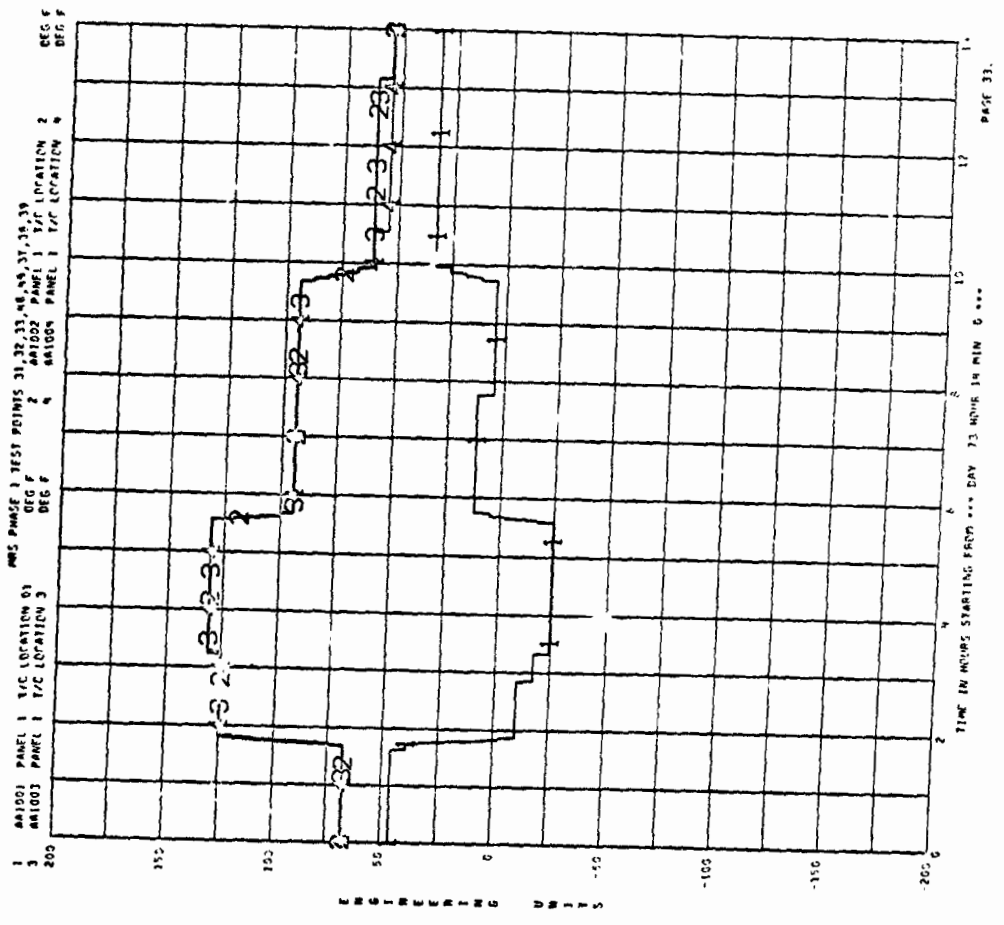


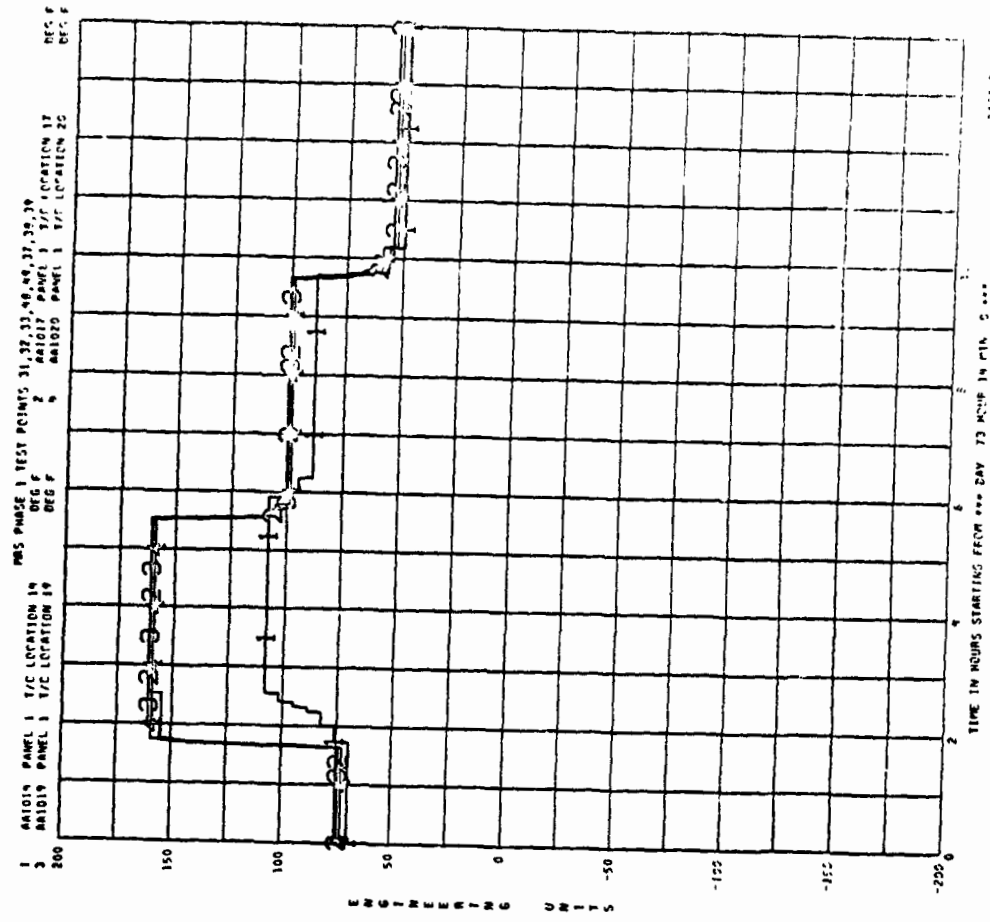
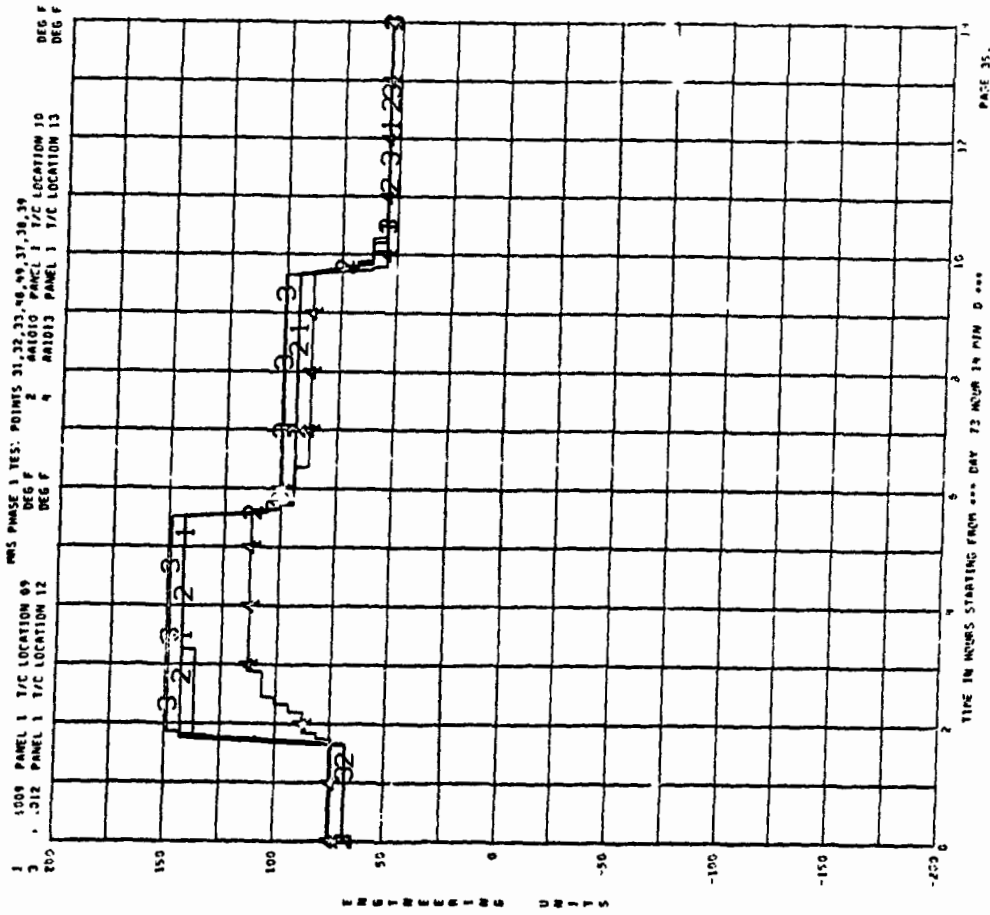
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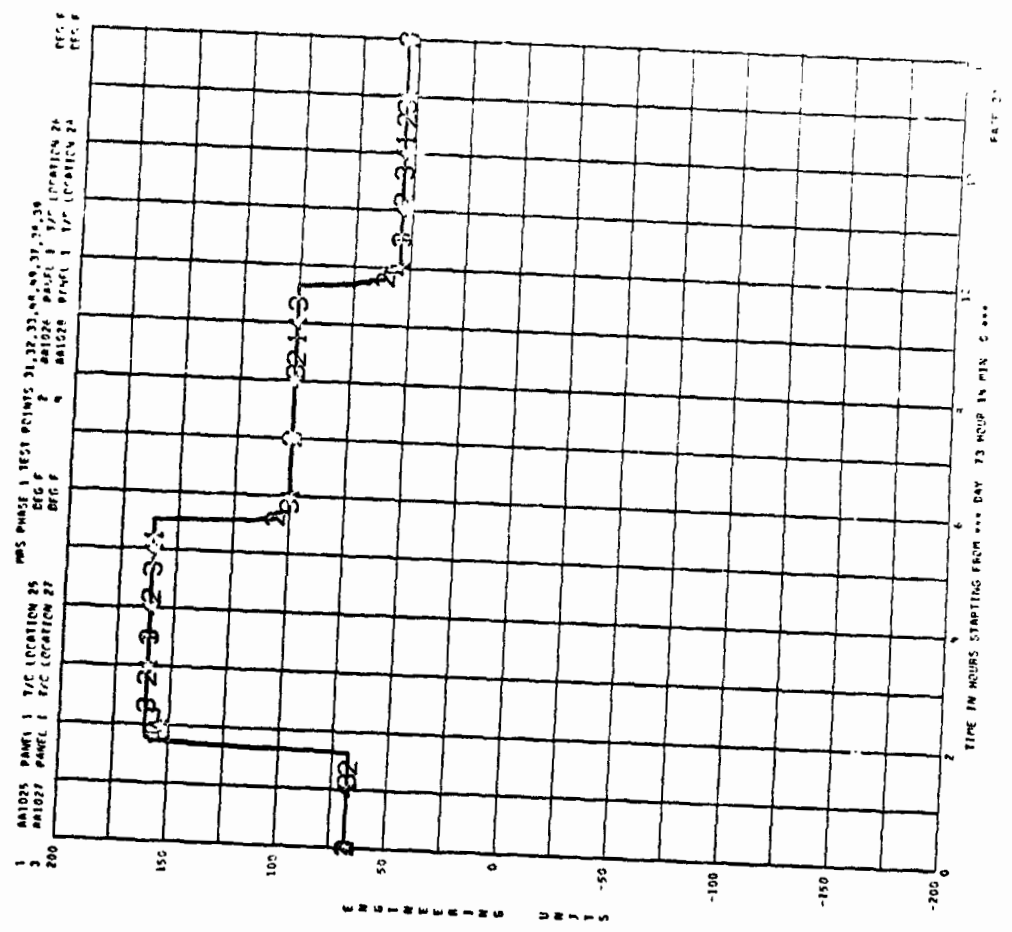
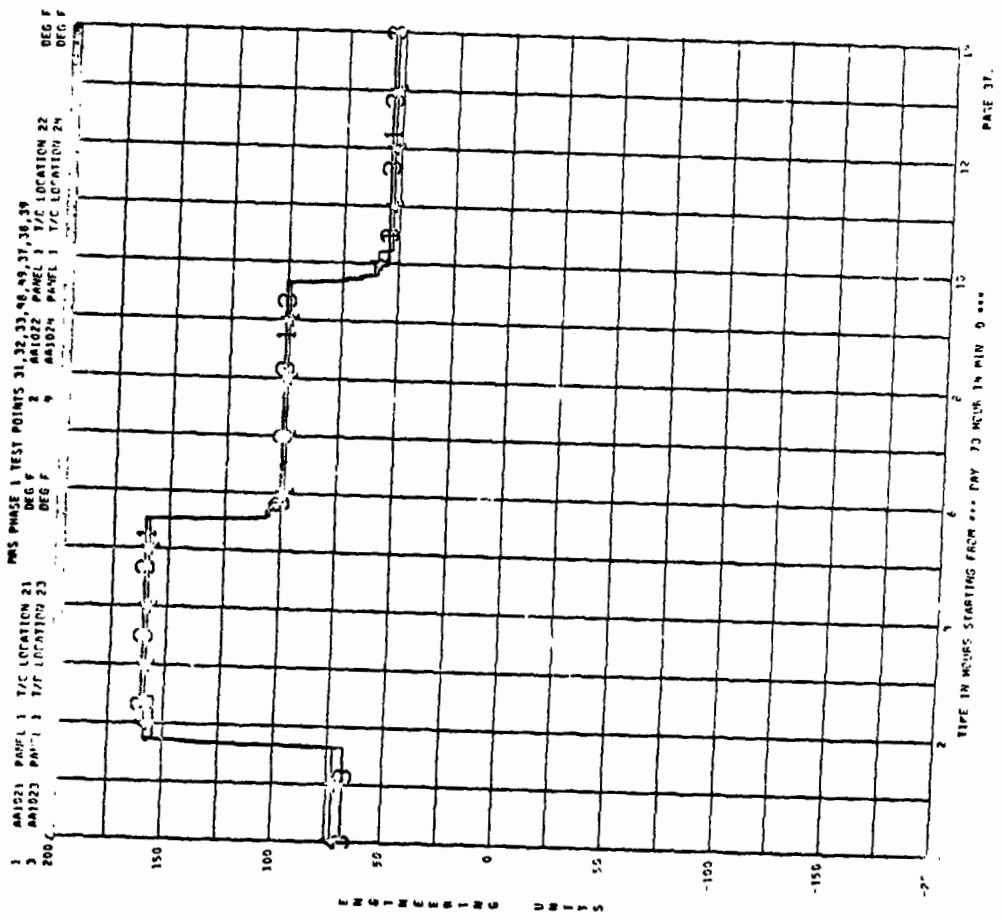
1 A10032 PANEL NO 3 BANK TURF OUTLET DEG F
 2 A10033 PANEL NO 7 BANK TURF OUTLET DEG F
 3 A10034 PANEL NO 8 BANK TURF OUTLET DEG F
 4 A10035 PANEL NO 9 BANK TURF OUTLET DEG F

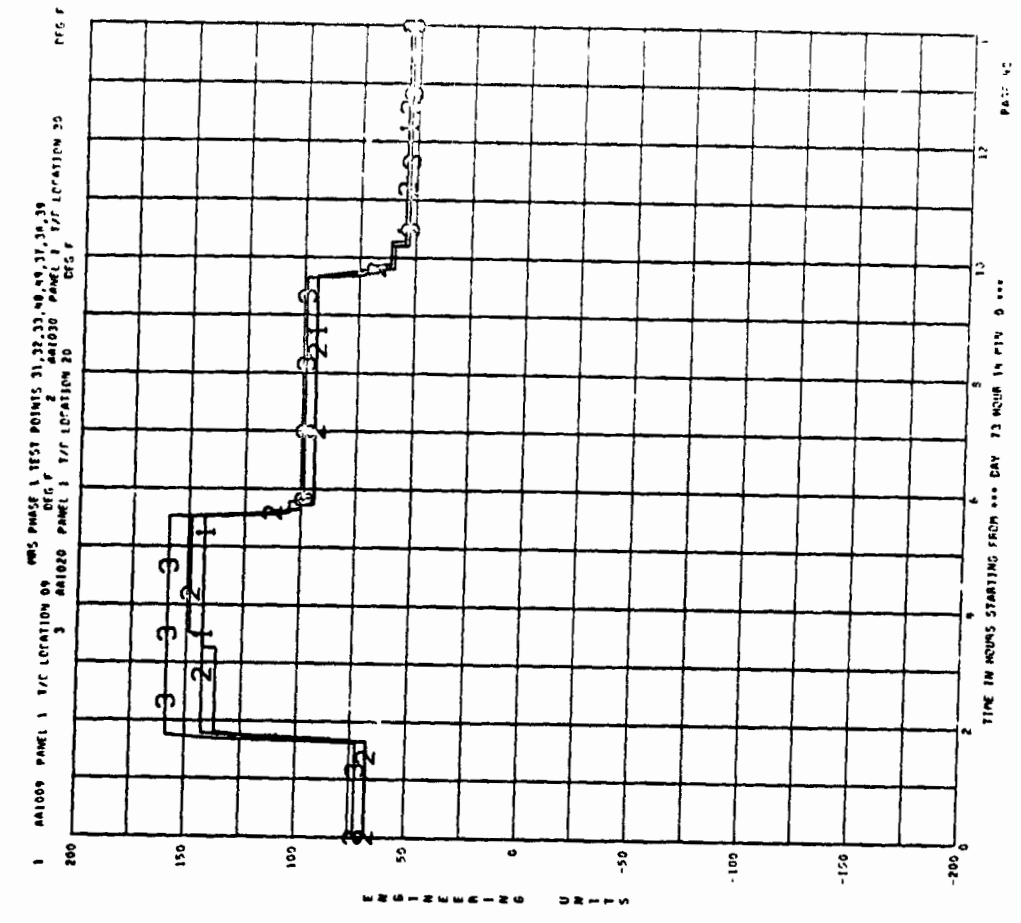
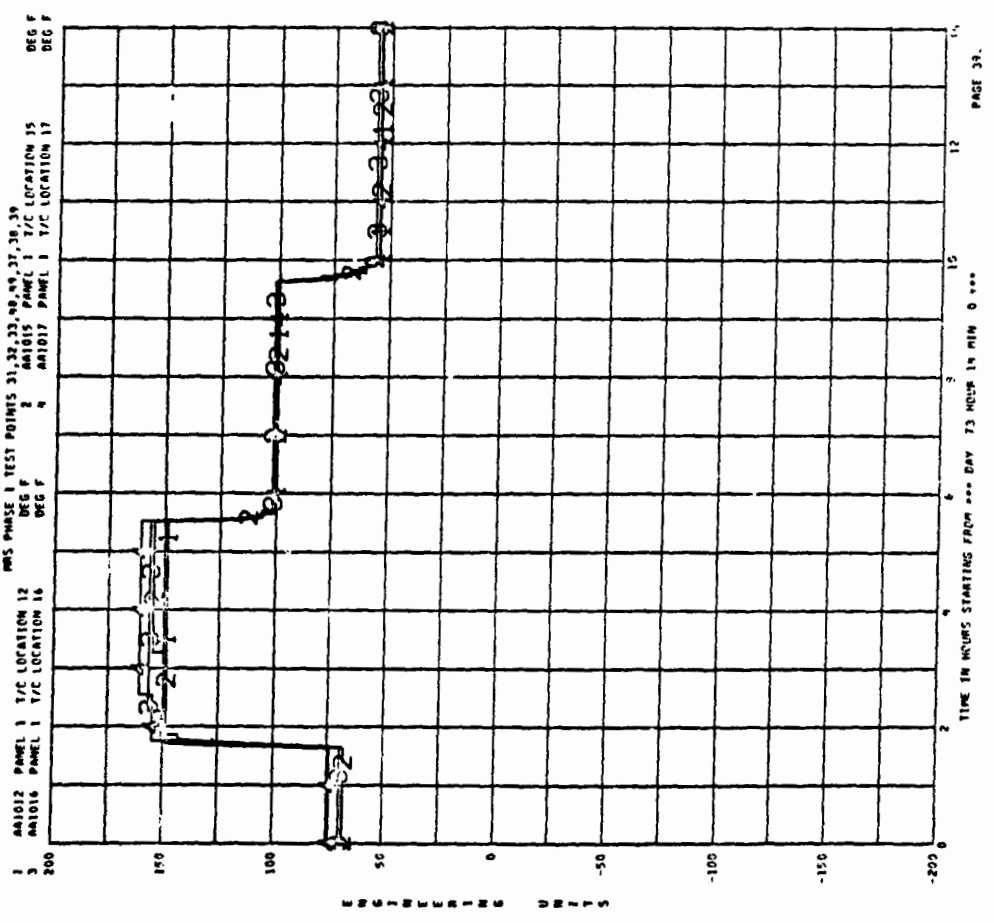


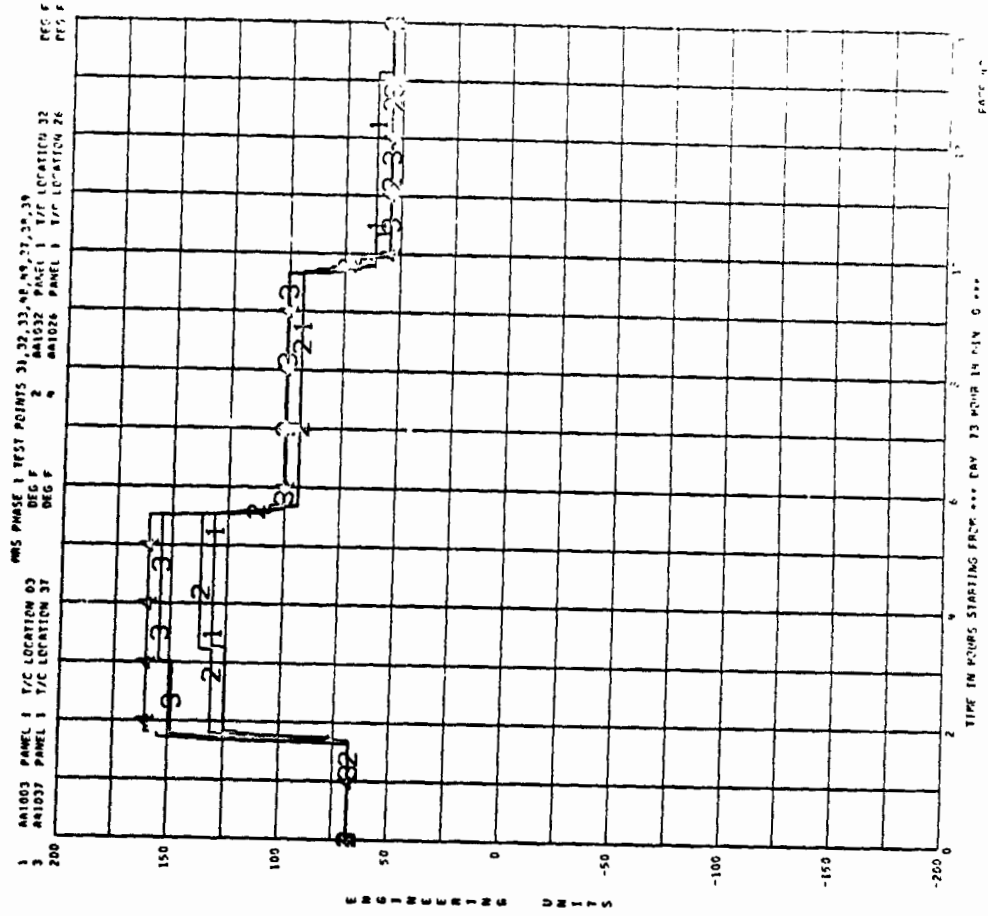
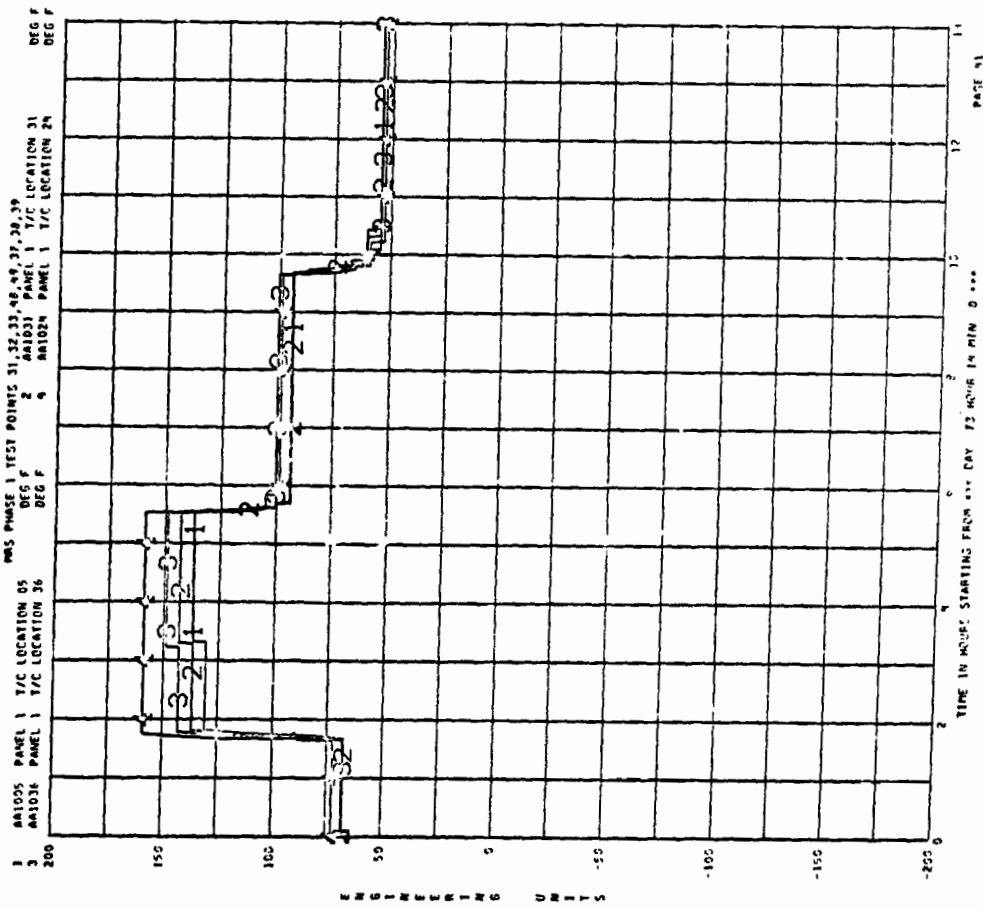
ENGINEERING UNITS



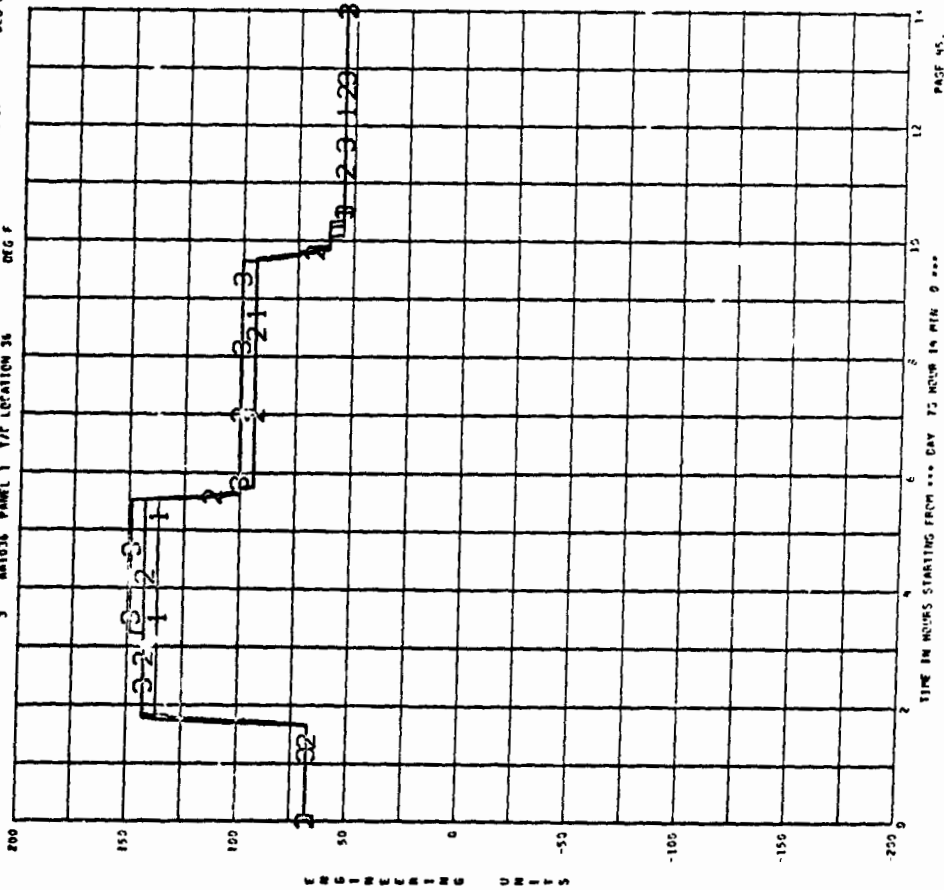




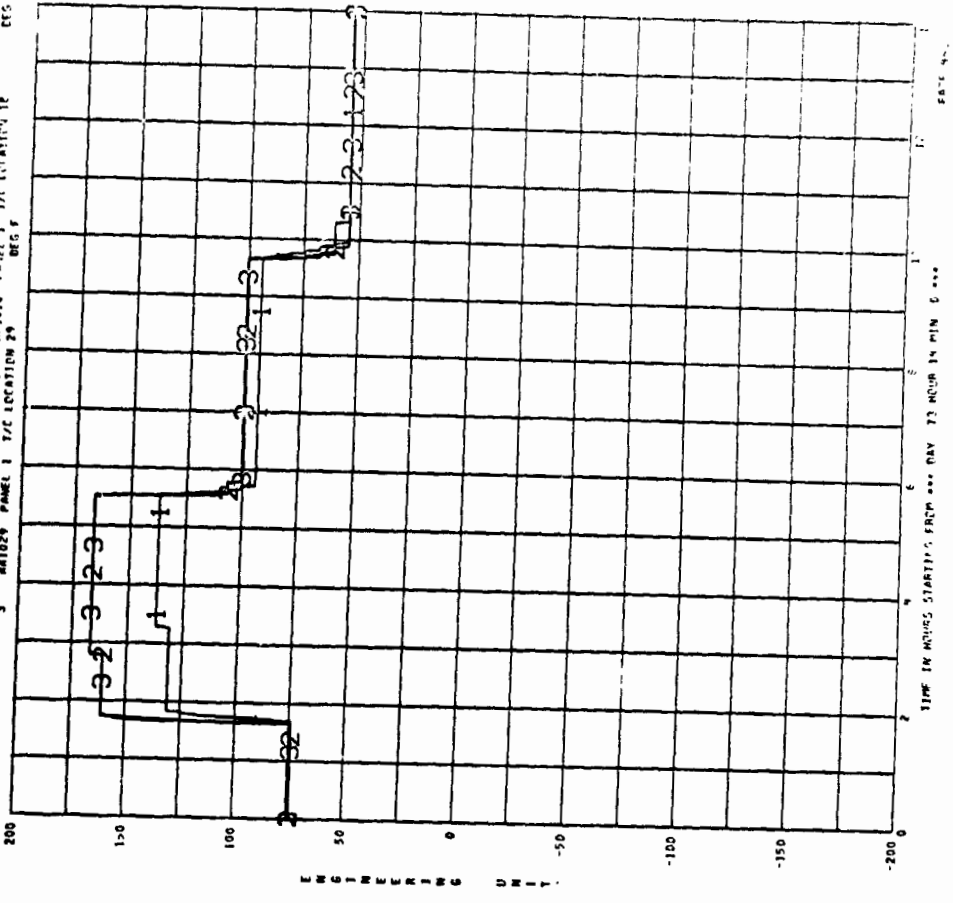




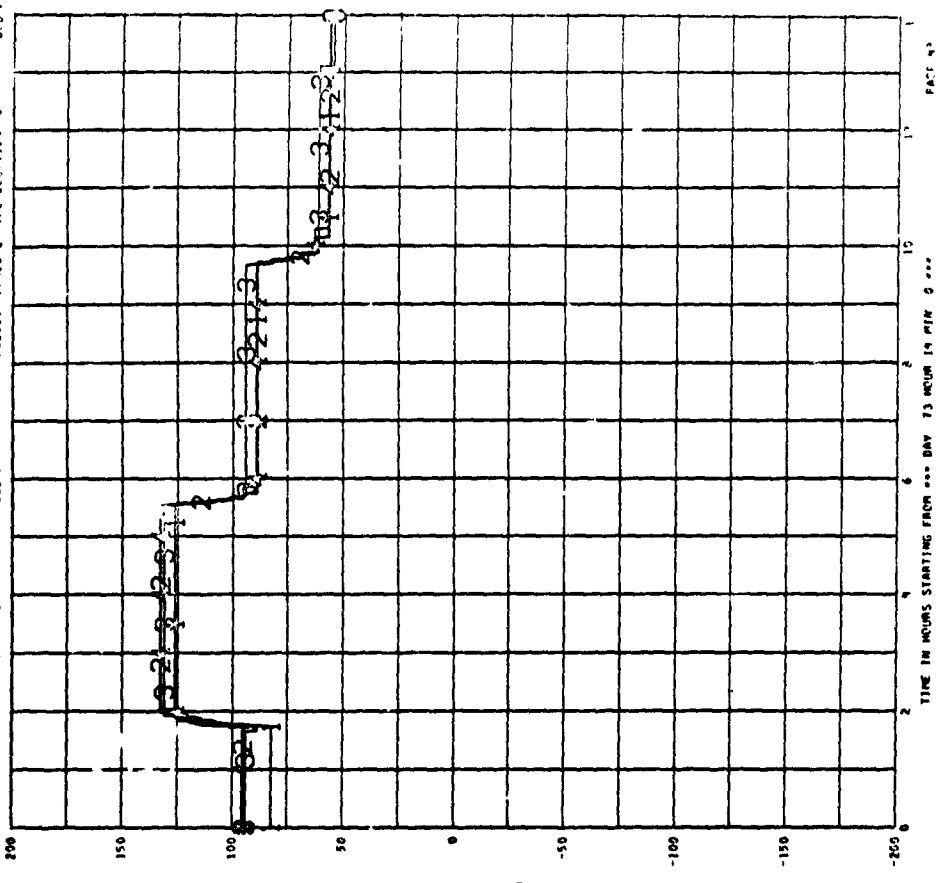
1 MA103N PANEL 1 T/C LOCATION 34 RMS PHASE 1 TEST POINTS 31,32,33,40,49,51,50,59 DEG F
 2 MA103S PANEL 1 T/C LOCATION 35 DEG F
 3 MA103A PANEL 1 T/C LOCATION 36 DEG F



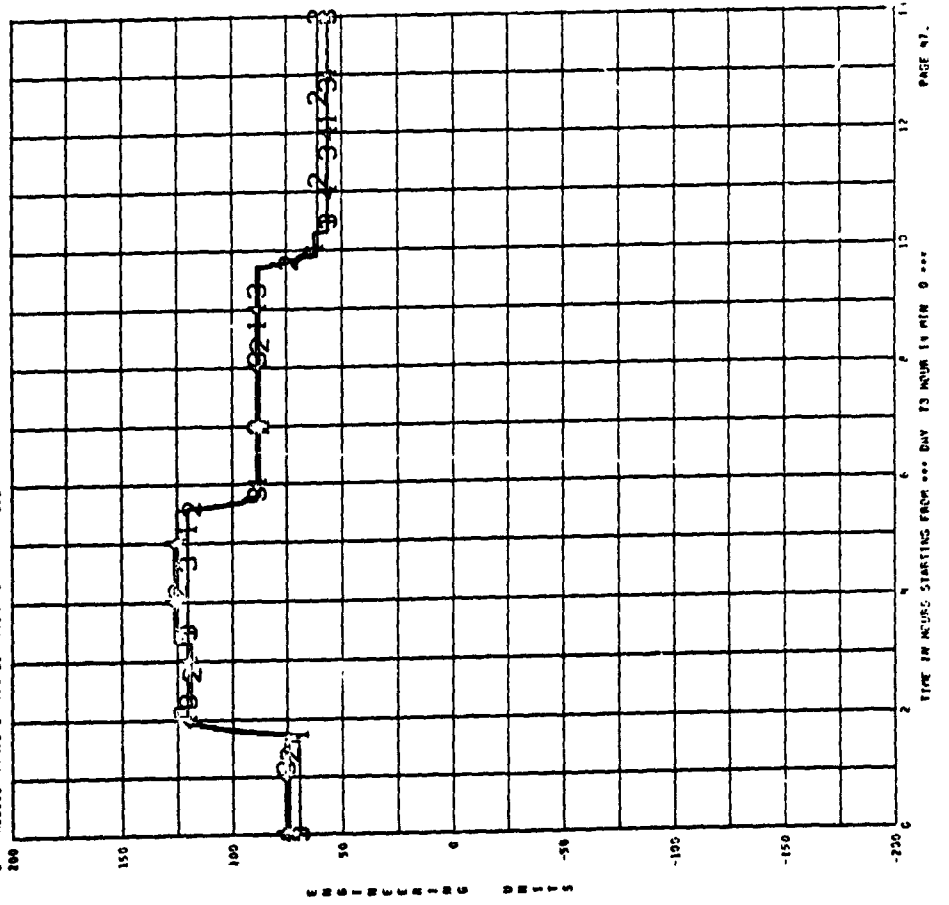
1 MA101 PANEL 1 T/C LOCATION 11 RMS PHASE 1 TEST POINTS 31,32,33,40,49,51,50,59 DEG F
 2 MA102S PANEL 1 T/C LOCATION 24 DEG F
 3 MA102N PANEL 1 T/C LOCATION 25 DEG F

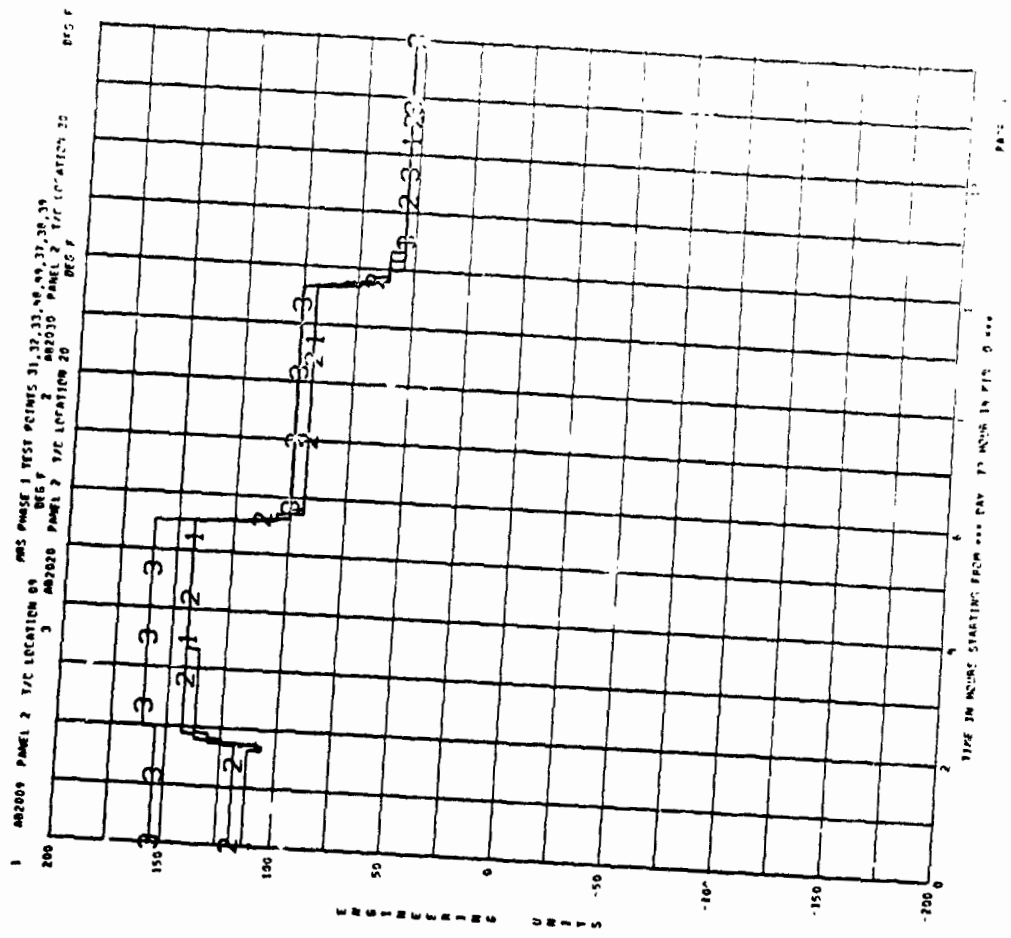
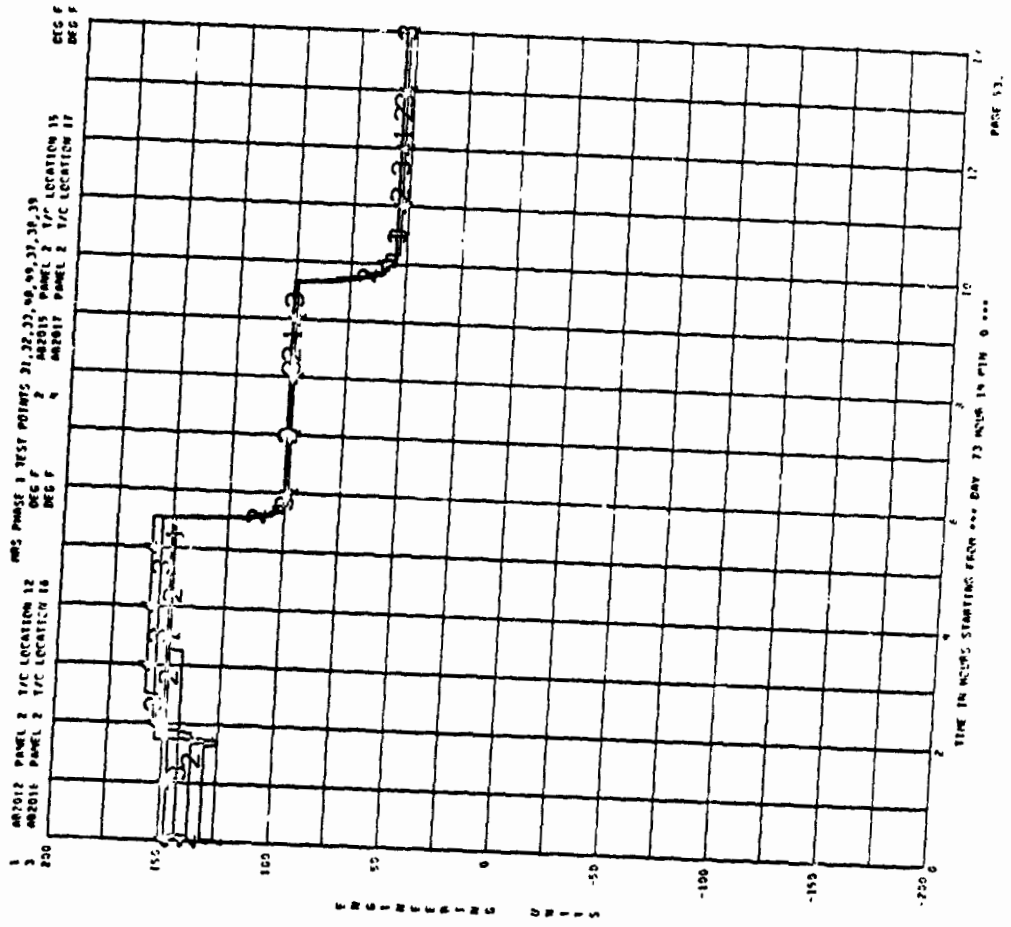


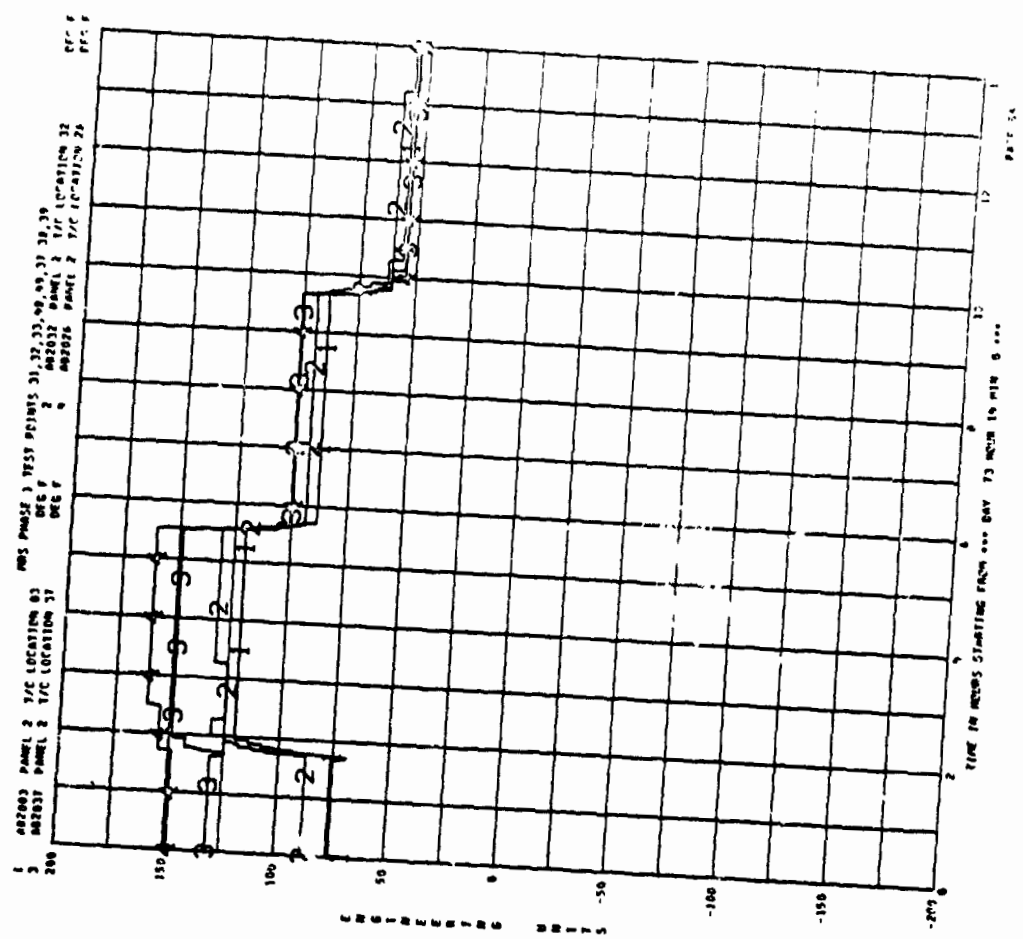
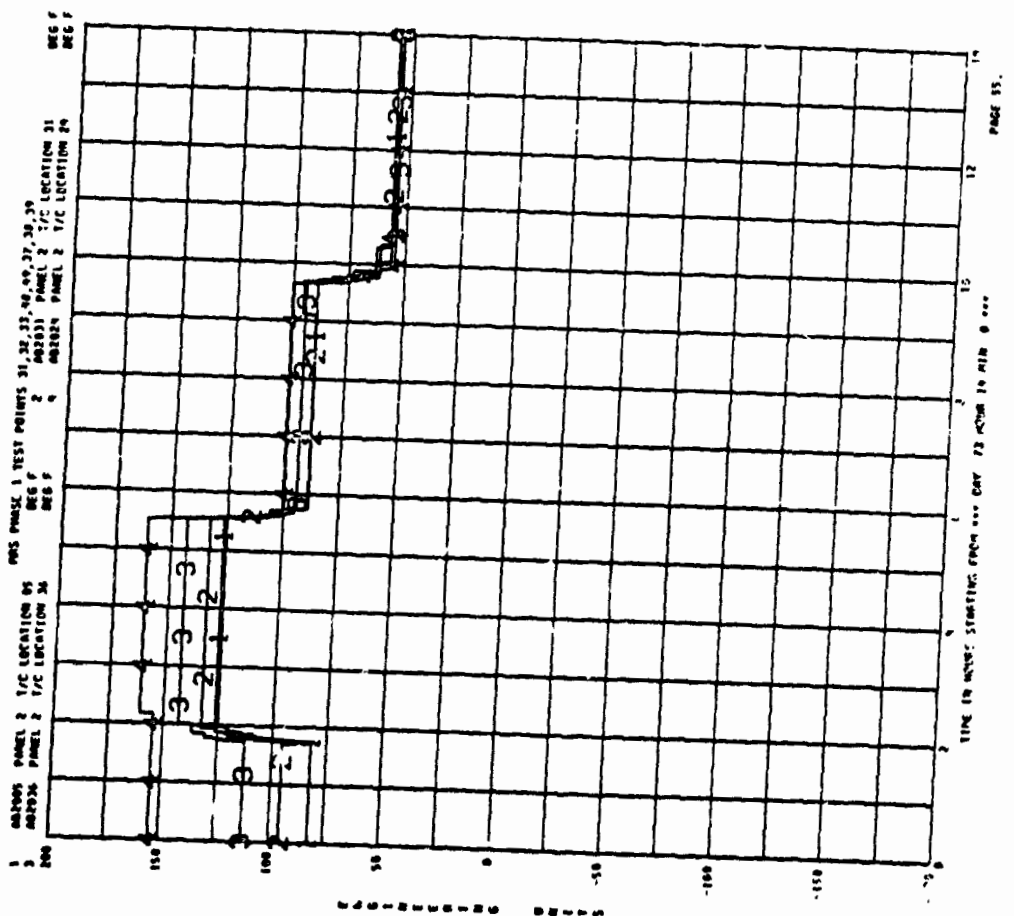
RMS PHASE 1 TEST POINTS 31, 32, 33, 48, 49, 37, 38, 39
 1 AR2005 PANEL 2 T/C LOCATION 05 DEG F
 2 AR2006 PANEL 2 T/C LOCATION 6 DEG F
 3 AR2007 PANEL 2 T/C LOCATION 7 DEG F

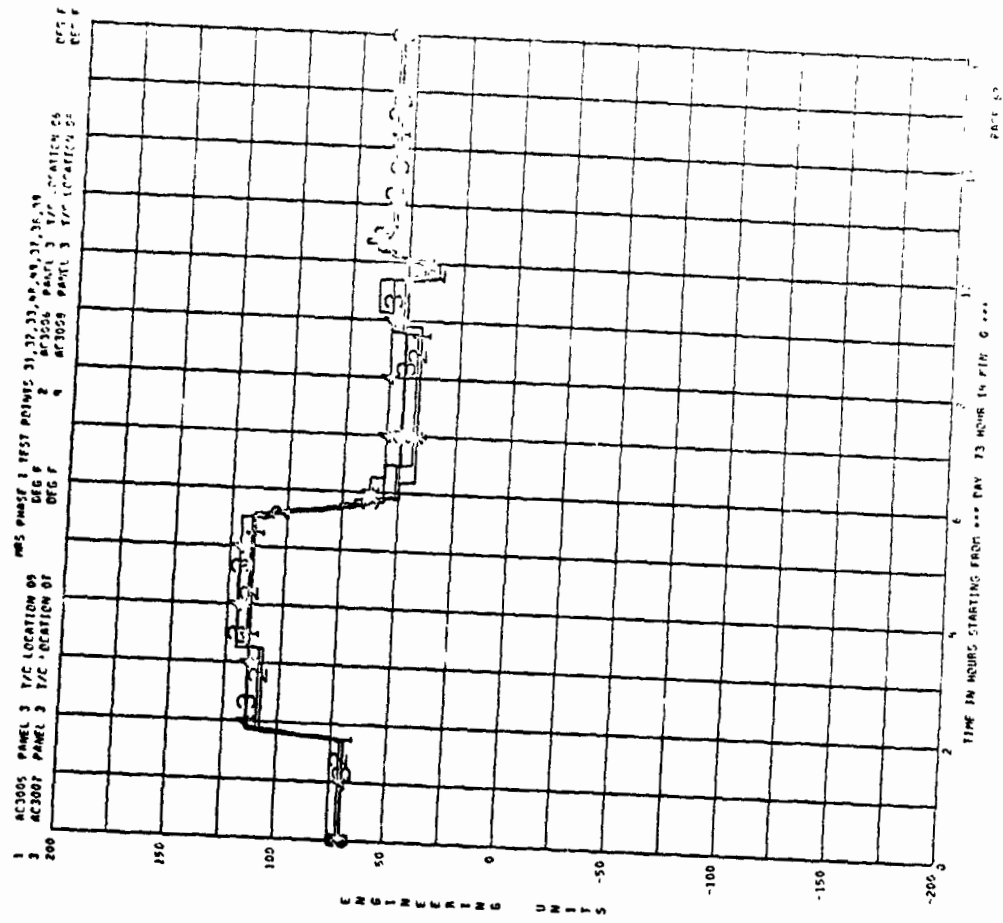
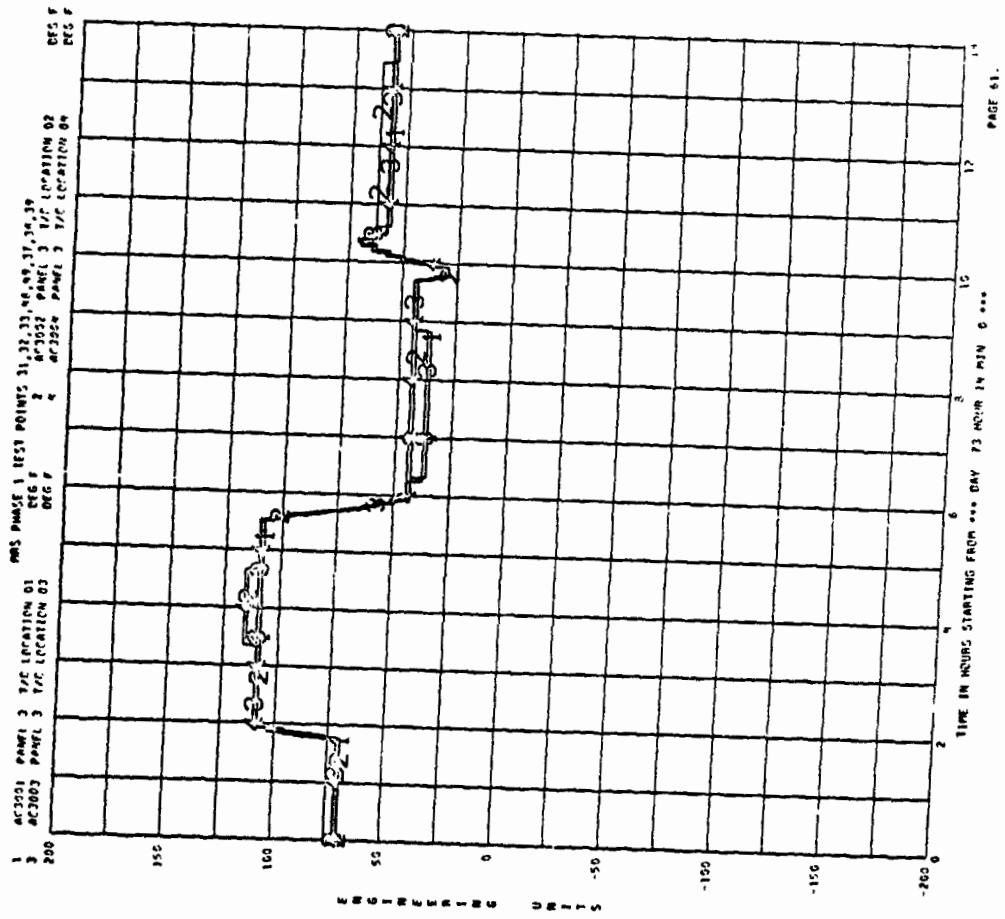


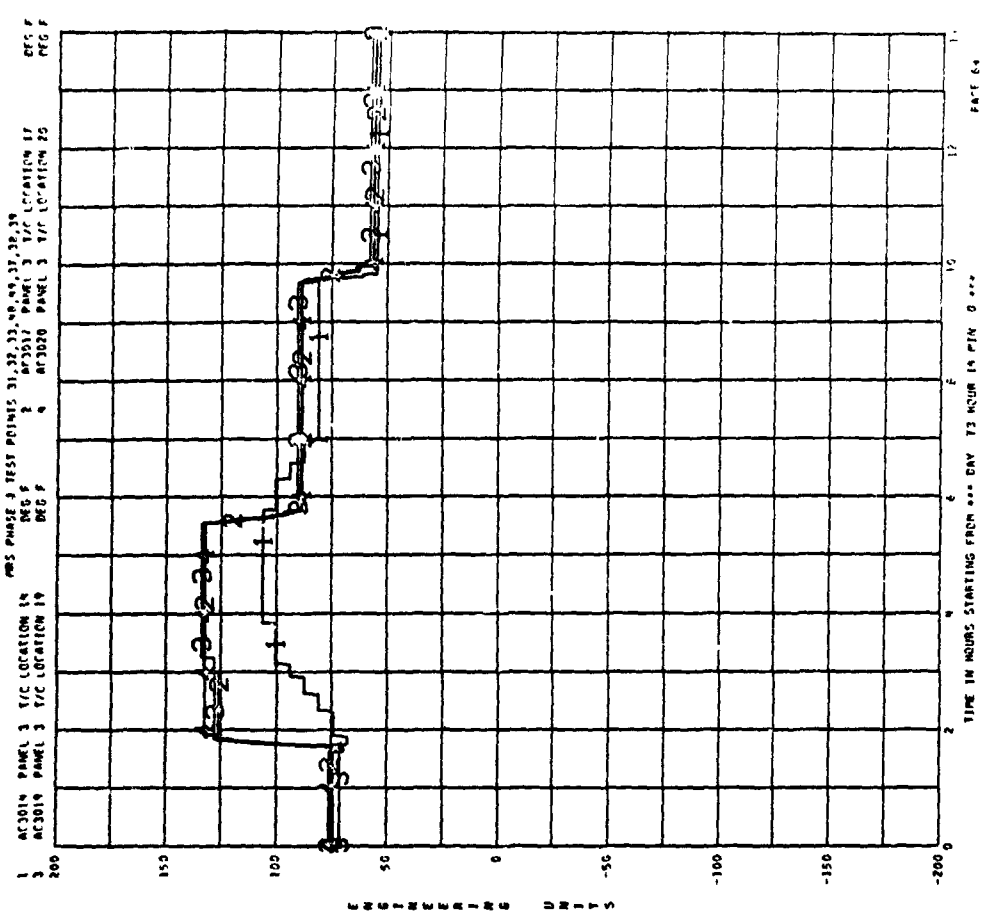
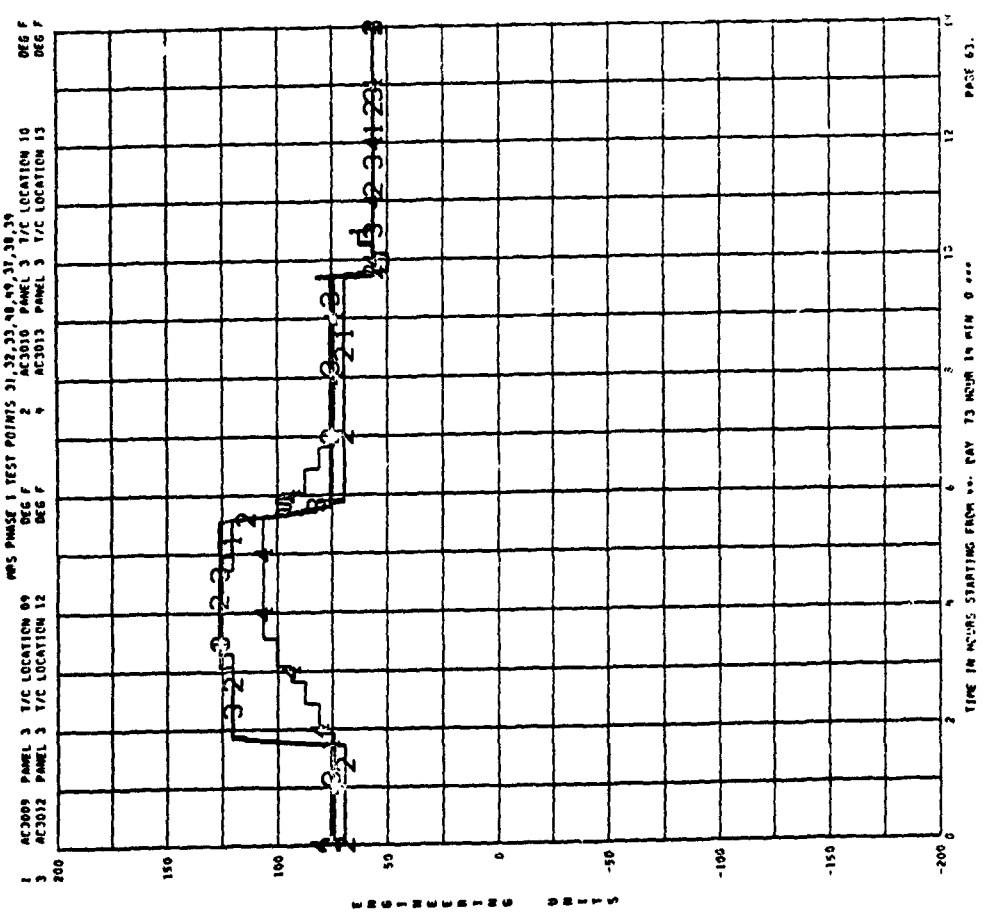
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 1 AR2001 PANEL 2 T/C LOCATION 1 DEG F
 2 AR2002 PANEL 2 T/C LOCATION 2 DEG F
 3 AR2003 PANEL 2 T/C LOCATION 3 DEG F
 4 AR2004 PANEL 2 T/C LOCATION 4 DEG F

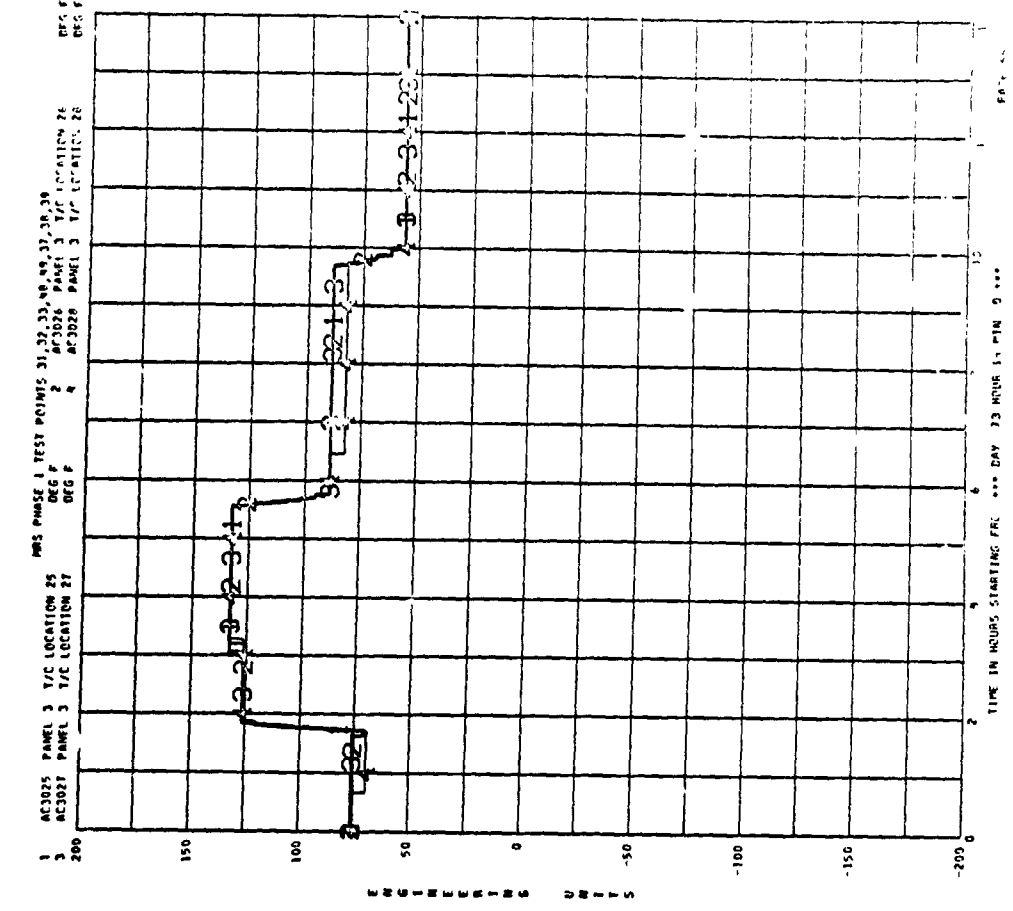
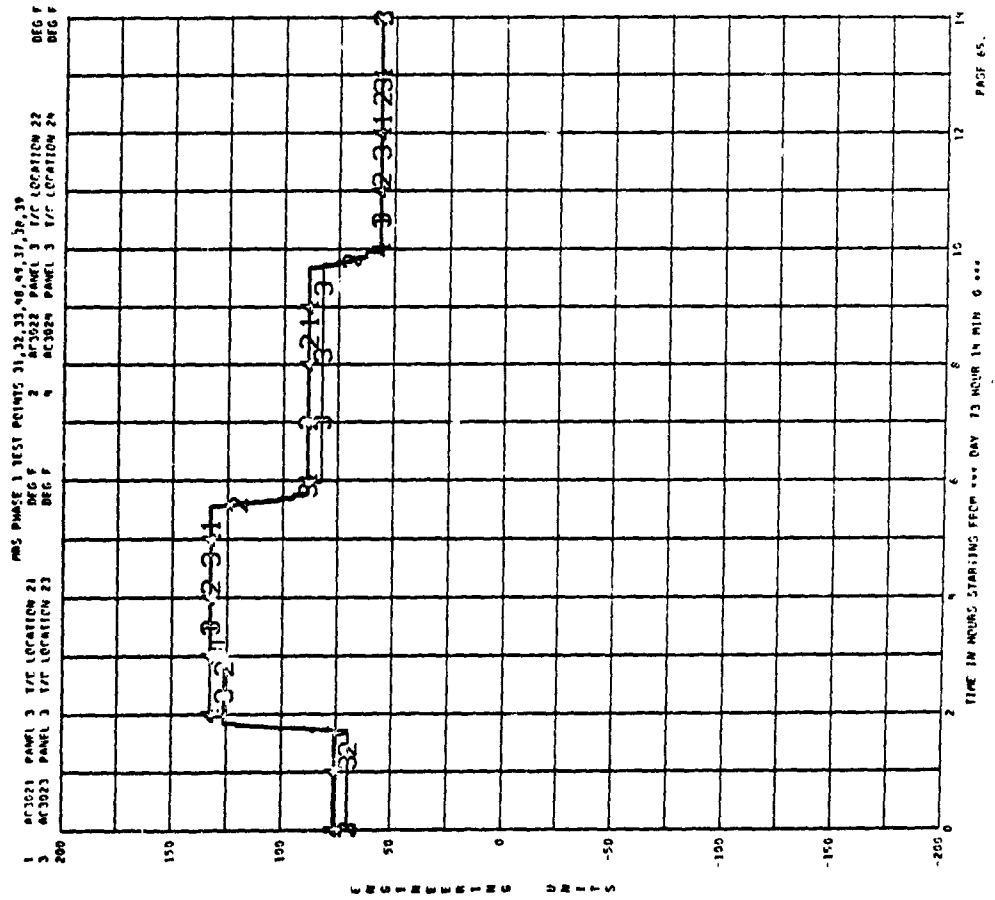


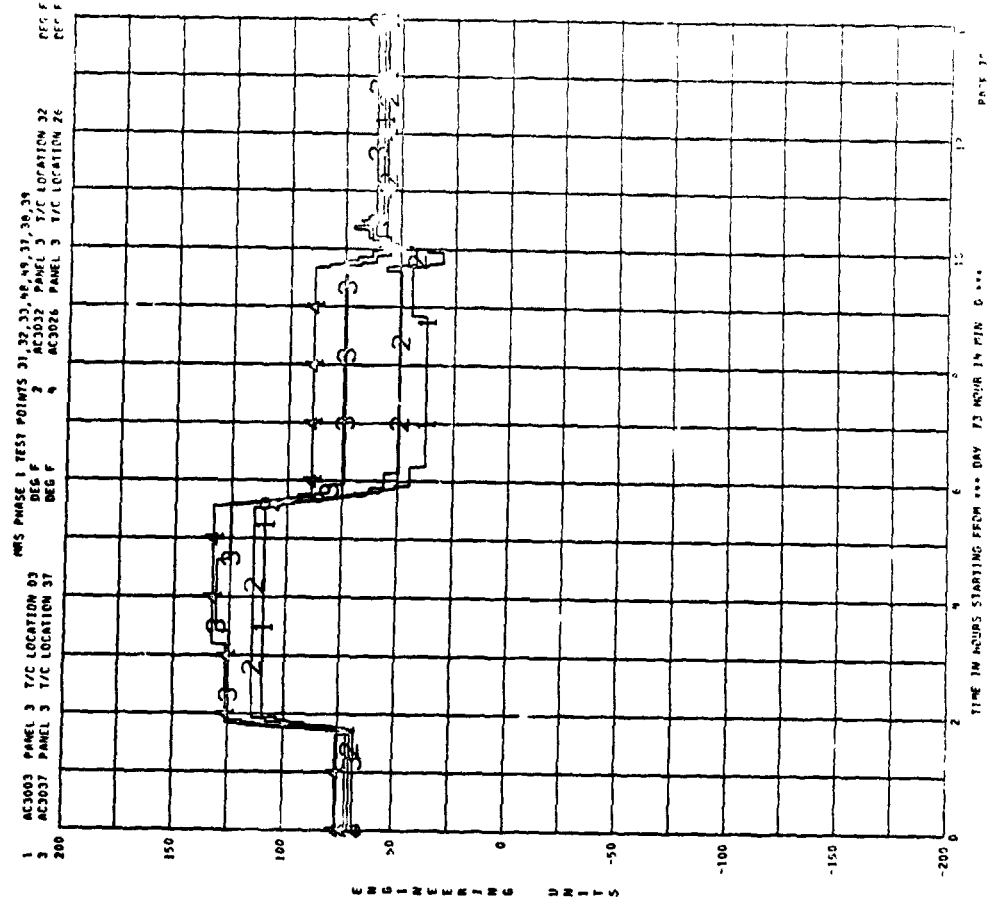
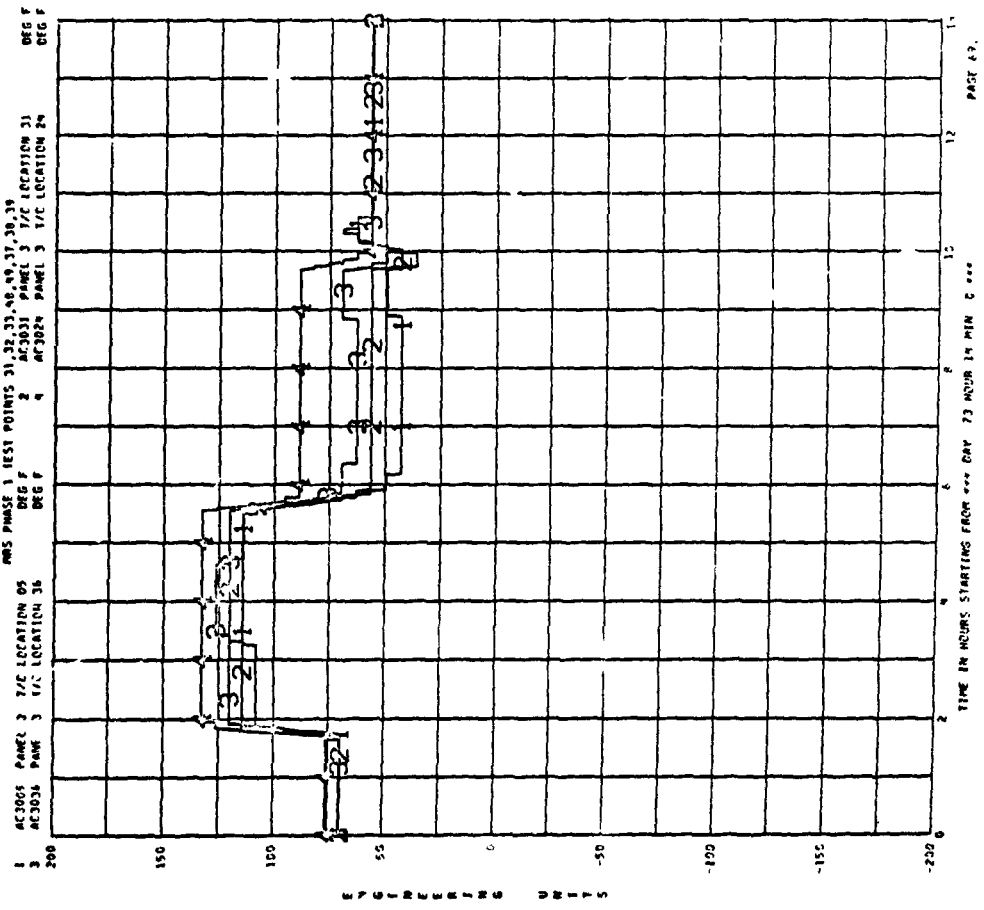




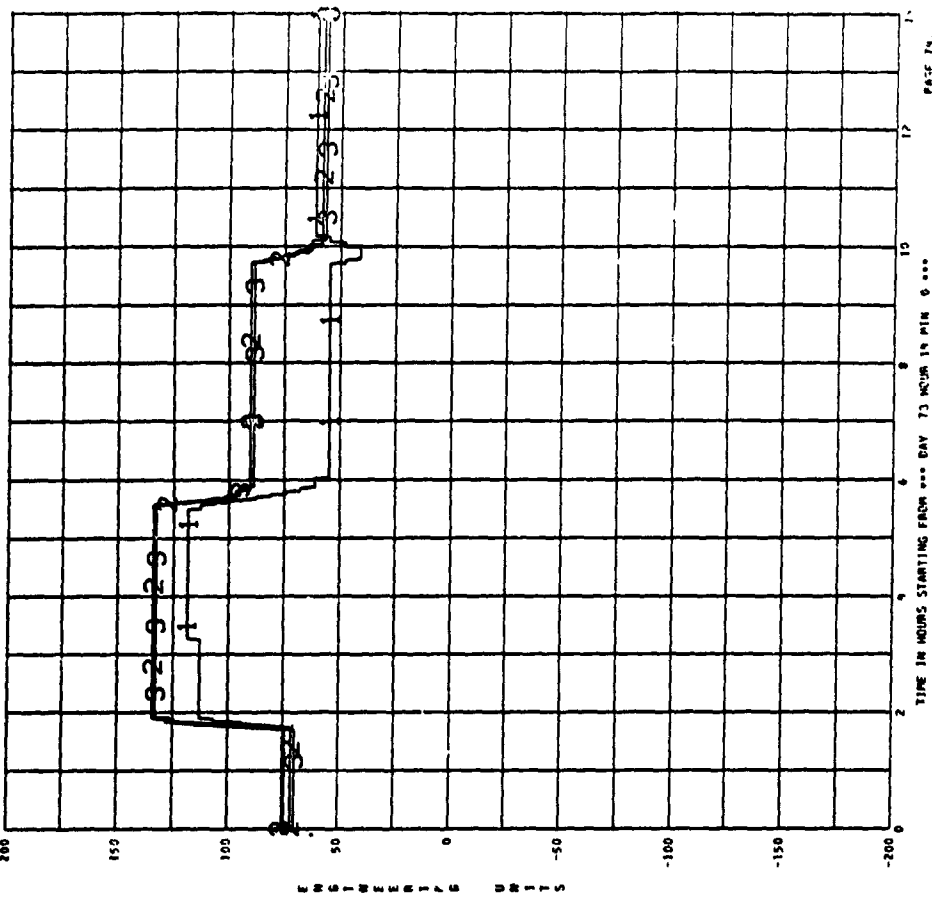




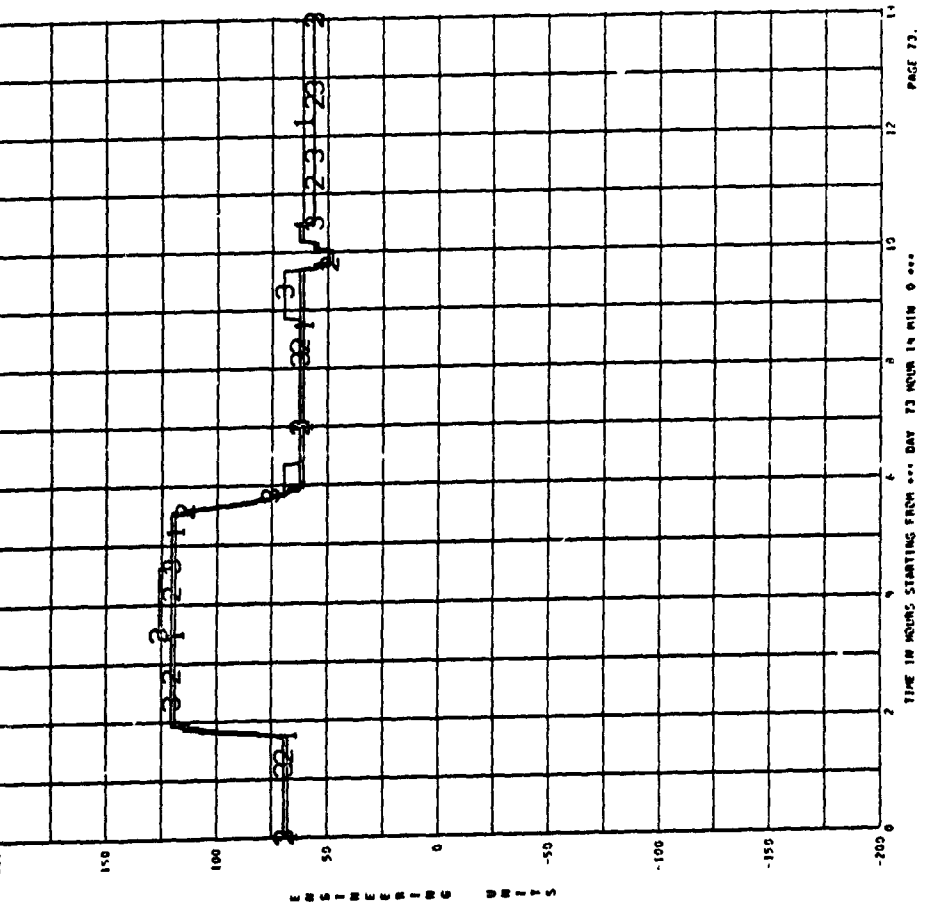


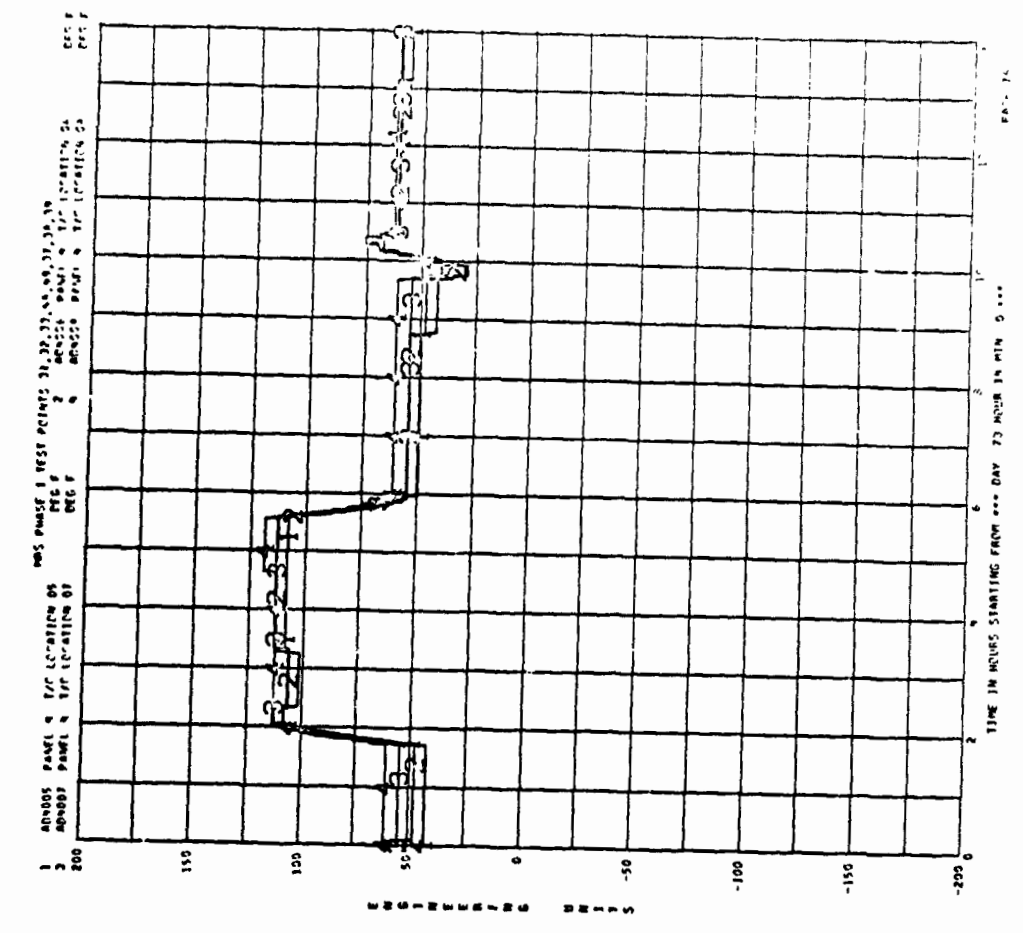
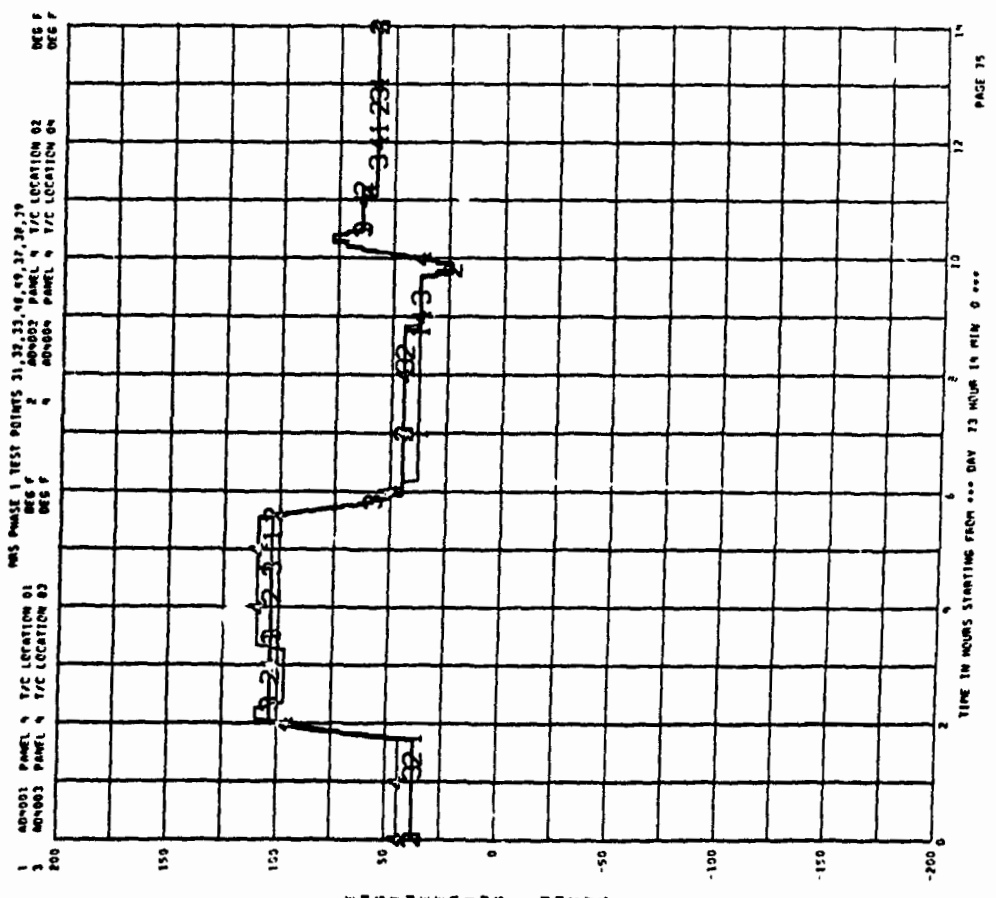


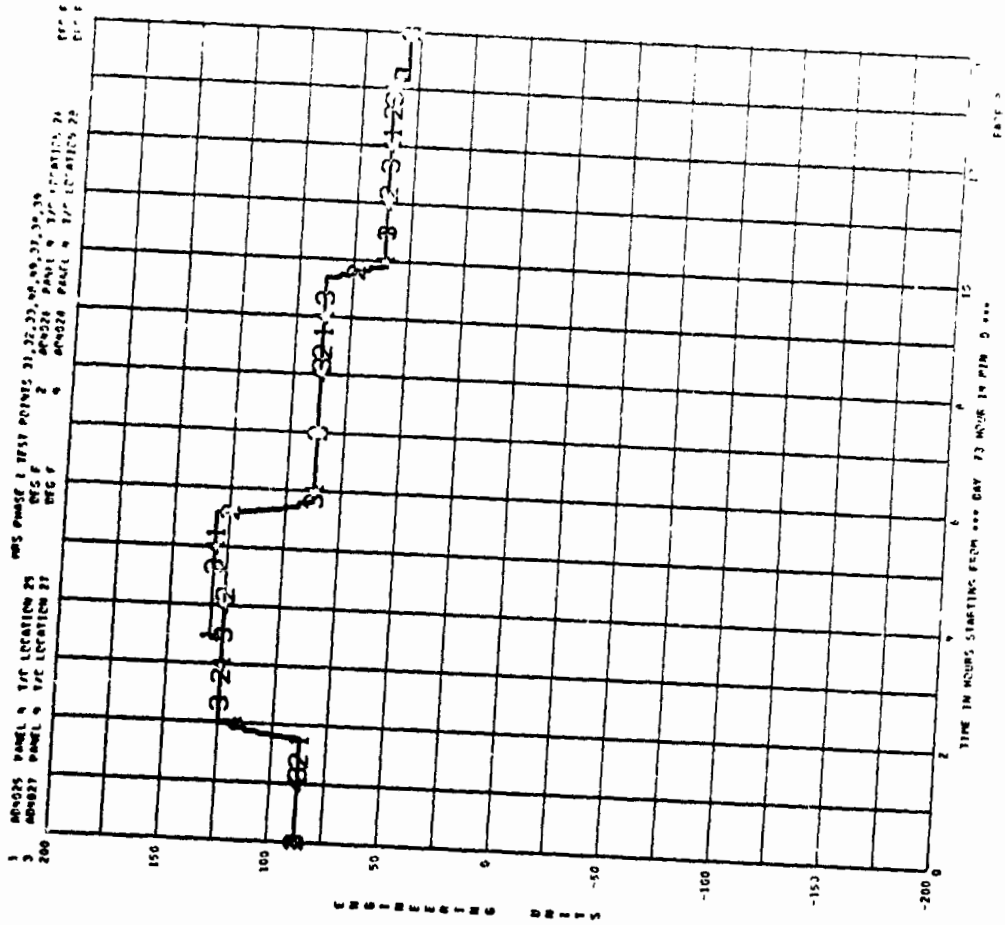
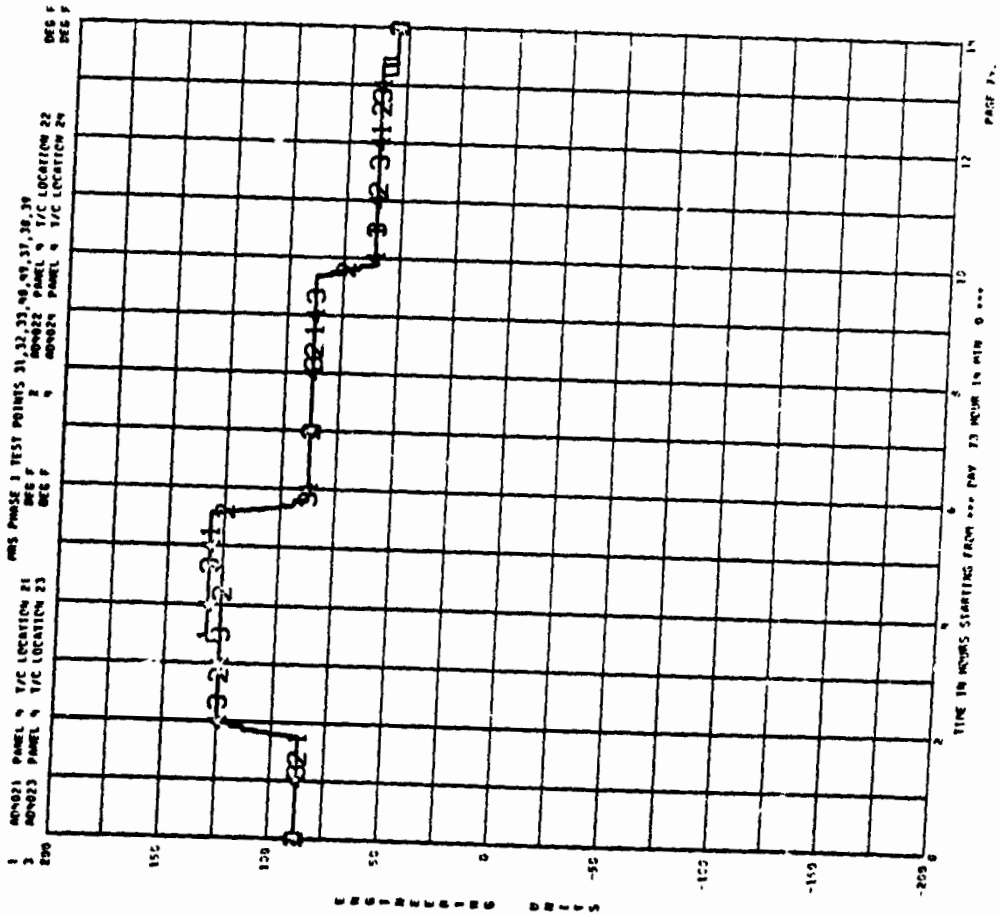
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 2 AC3012 PANEL 3 T/C LOCATION 18 DEB F
 3 AC3013 PANEL 3 T/C LOCATION 29 DEB F



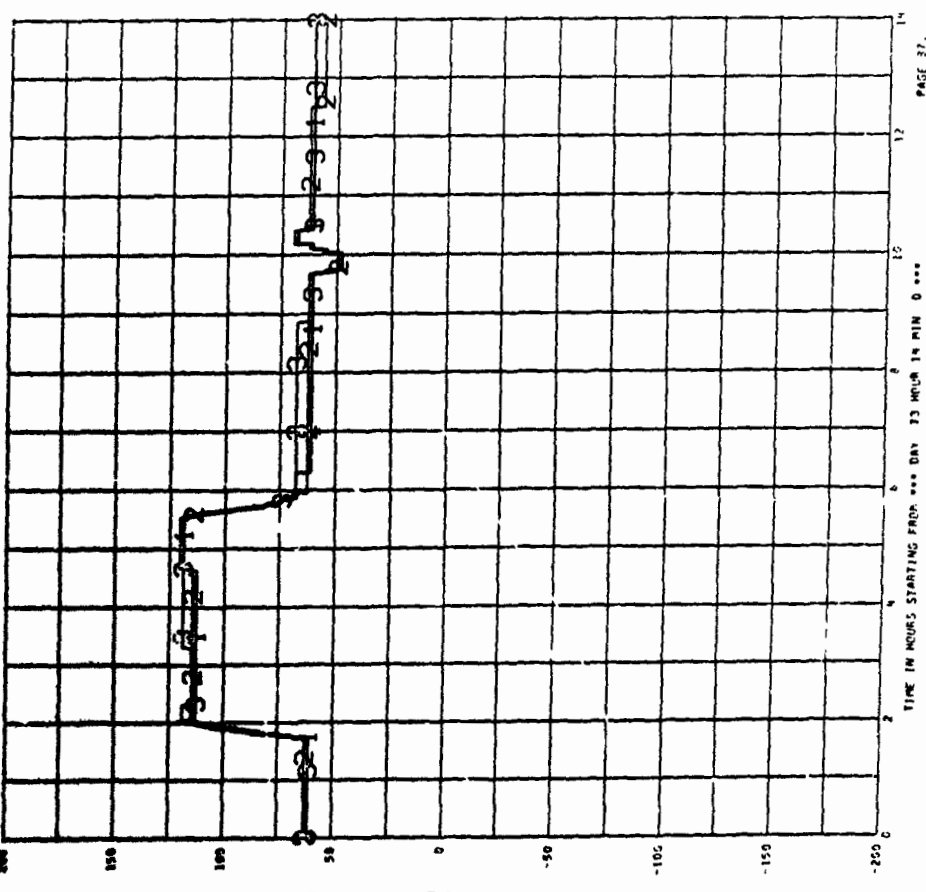
1 AC3024 PANEL 3 T/C LOCATION 34 DEB F
 2 AC3025 PANEL 3 T/C LOCATION 35 DEB F
 3 AC3026 PANEL 3 T/C LOCATION 36 DEB F



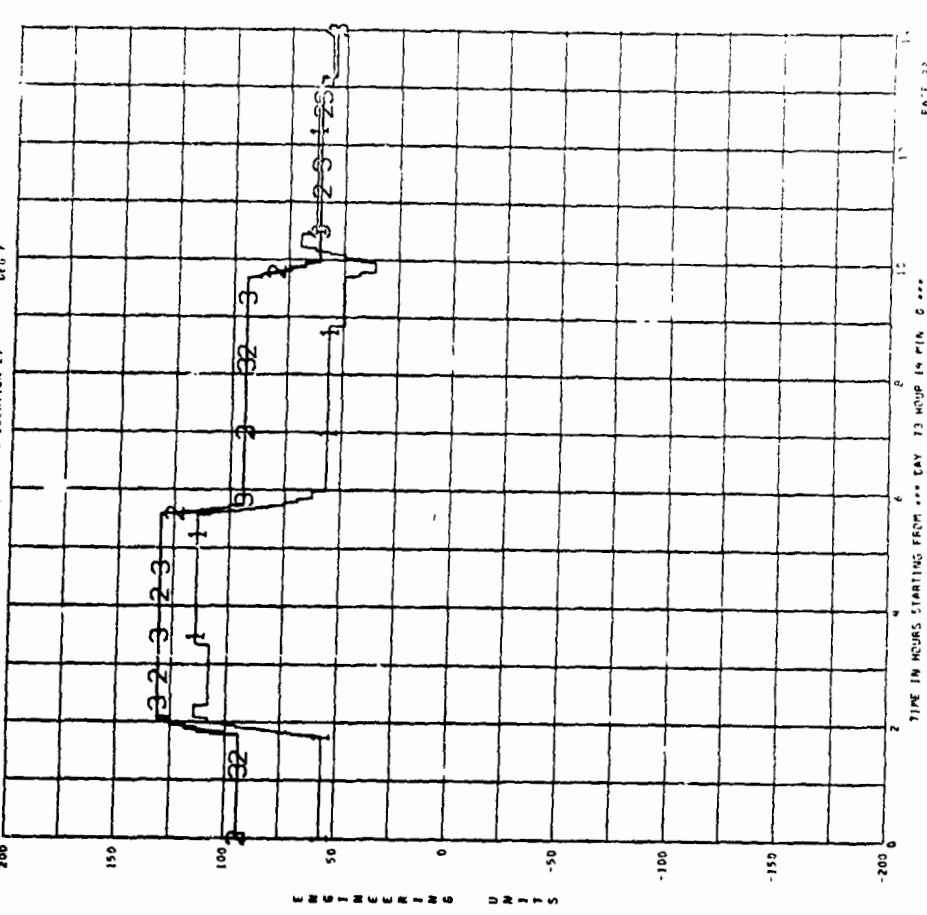


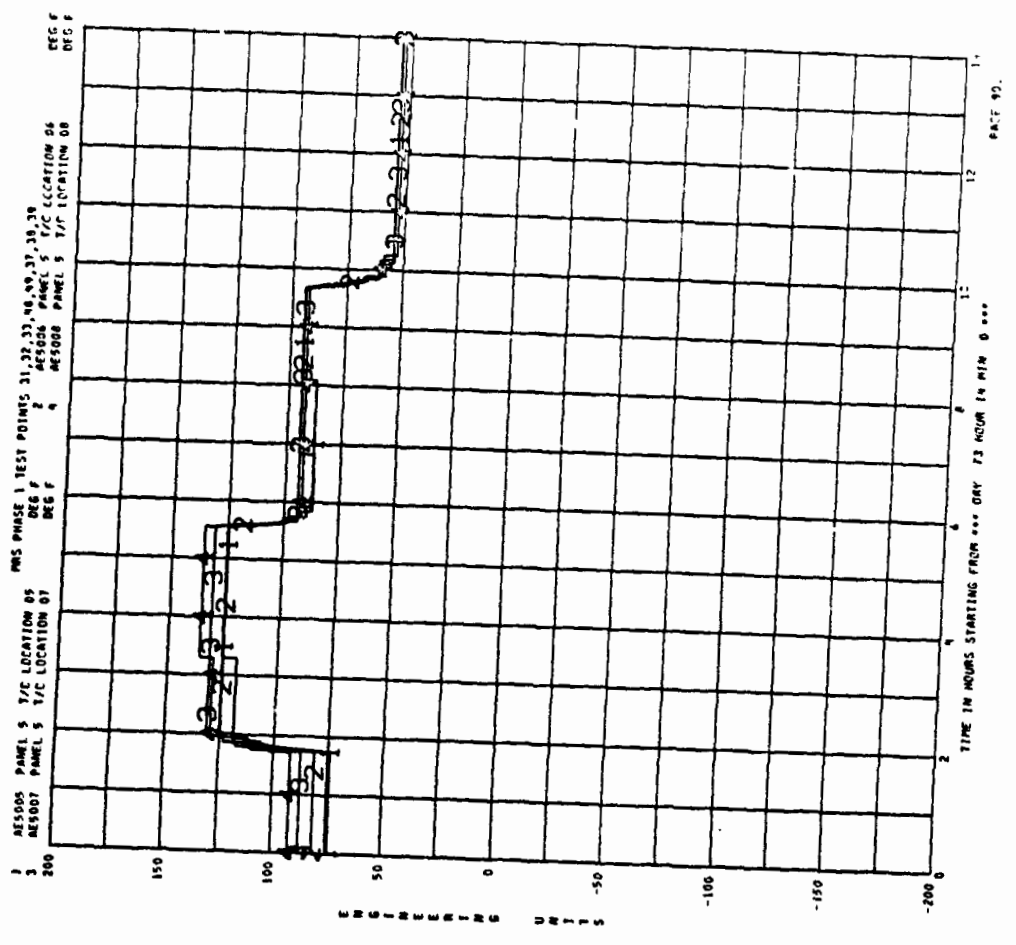
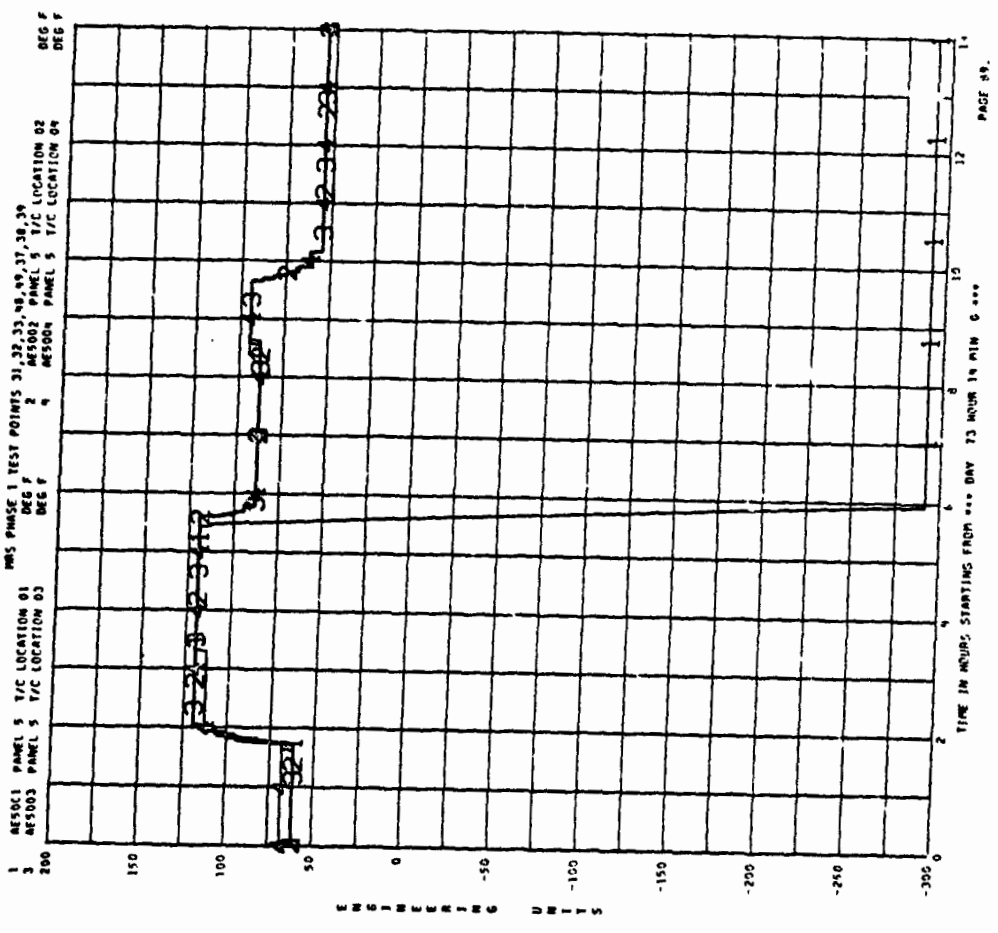


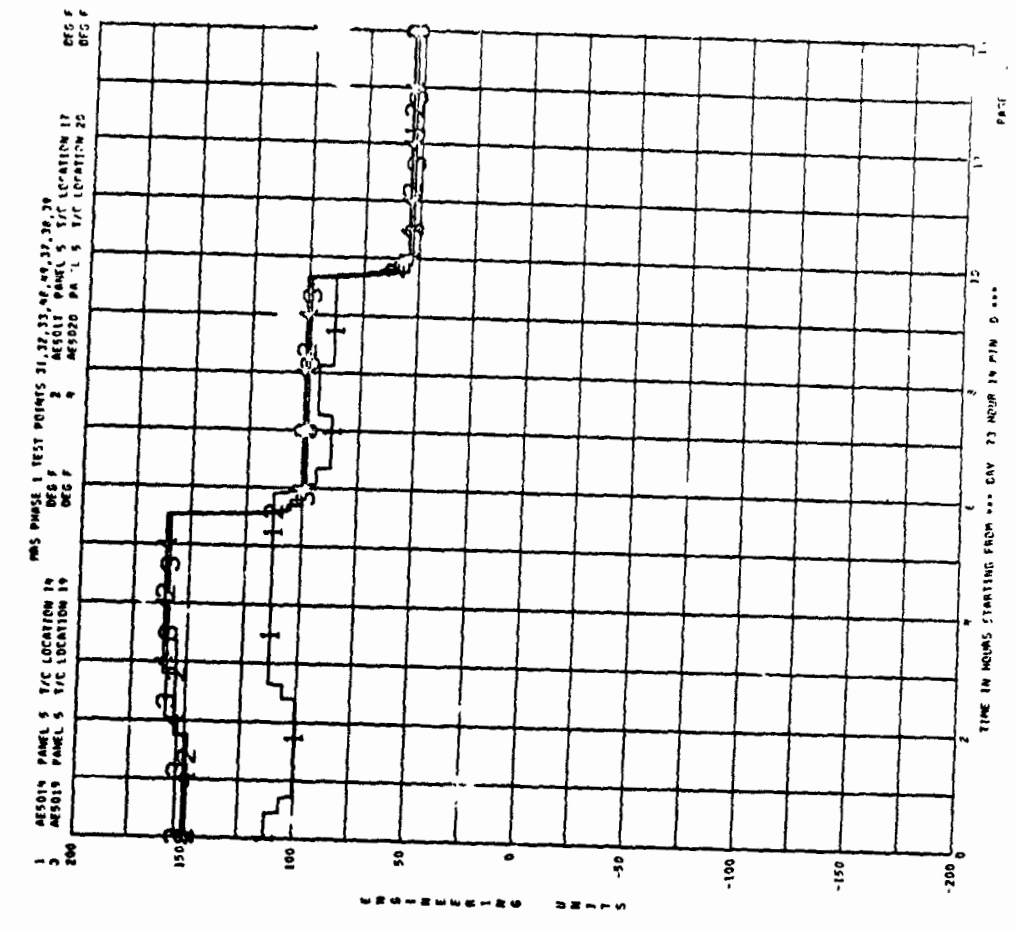
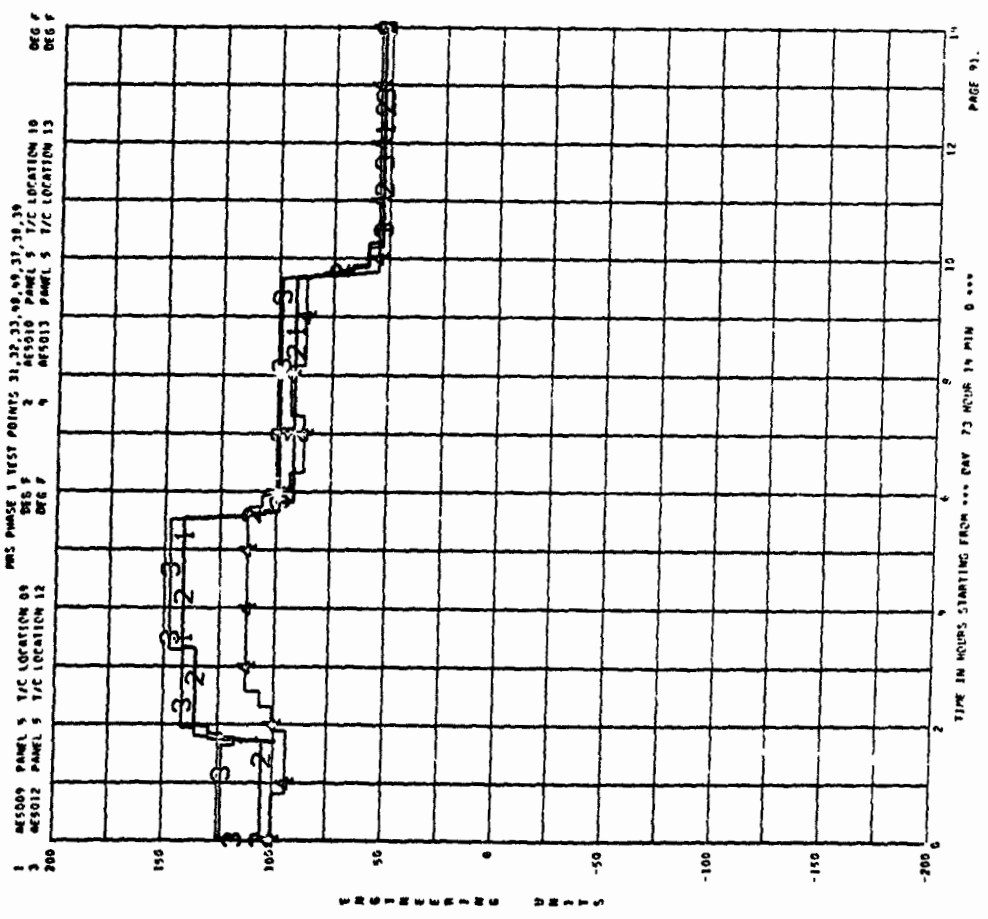
1 AD9029 PANEL 4 T/C LOCATION 29
 2 AD9029 PANEL 4 T/C LOCATION 29
 3 AD9029 PANEL 4 T/C LOCATION 29
 4 AD9029 PANEL 4 T/C LOCATION 29
 5 AD9029 PANEL 4 T/C LOCATION 29
 6 AD9029 PANEL 4 T/C LOCATION 29
 7 AD9029 PANEL 4 T/C LOCATION 29
 8 AD9029 PANEL 4 T/C LOCATION 29
 9 AD9029 PANEL 4 T/C LOCATION 29
 10 AD9029 PANEL 4 T/C LOCATION 29
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 14 AD9029 PANEL 4 T/C LOCATION 29

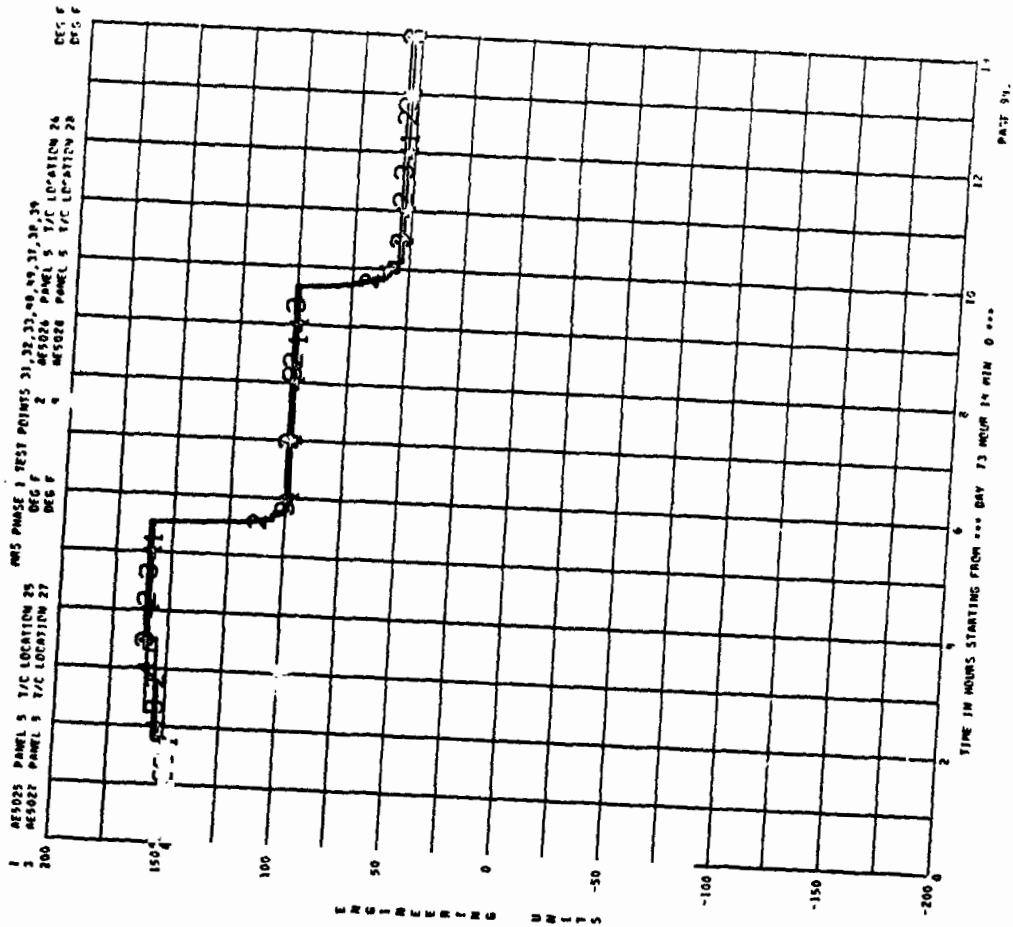
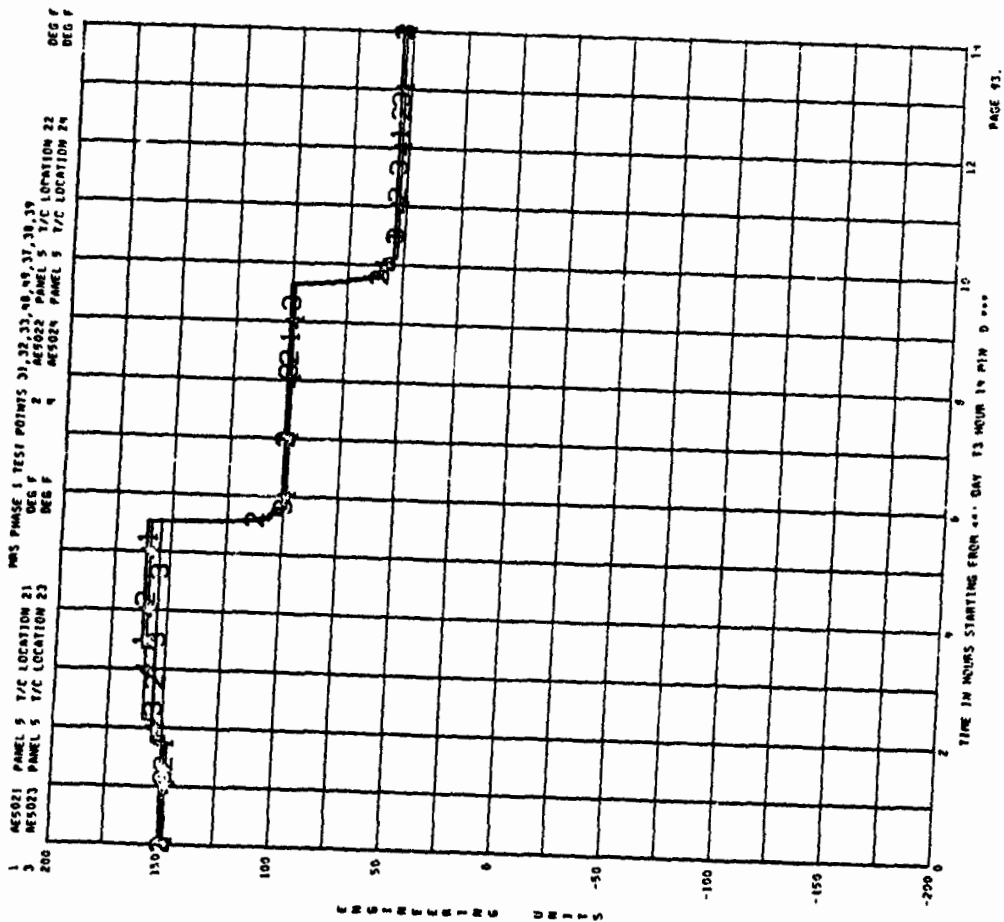


1 AD9011 PANEL 4 T/C LOCATION 11
 2 AD9011 PANEL 4 T/C LOCATION 11
 3 AD9011 PANEL 4 T/C LOCATION 11
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 6 AD9011 PANEL 4 T/C LOCATION 11
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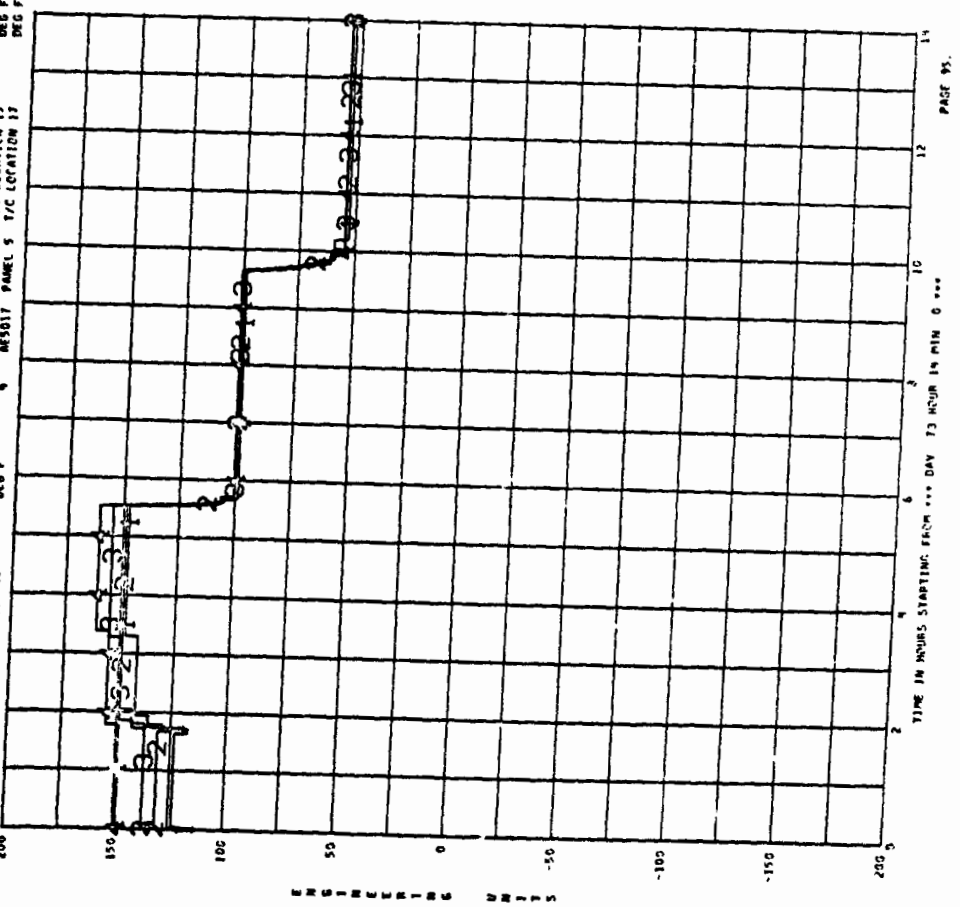






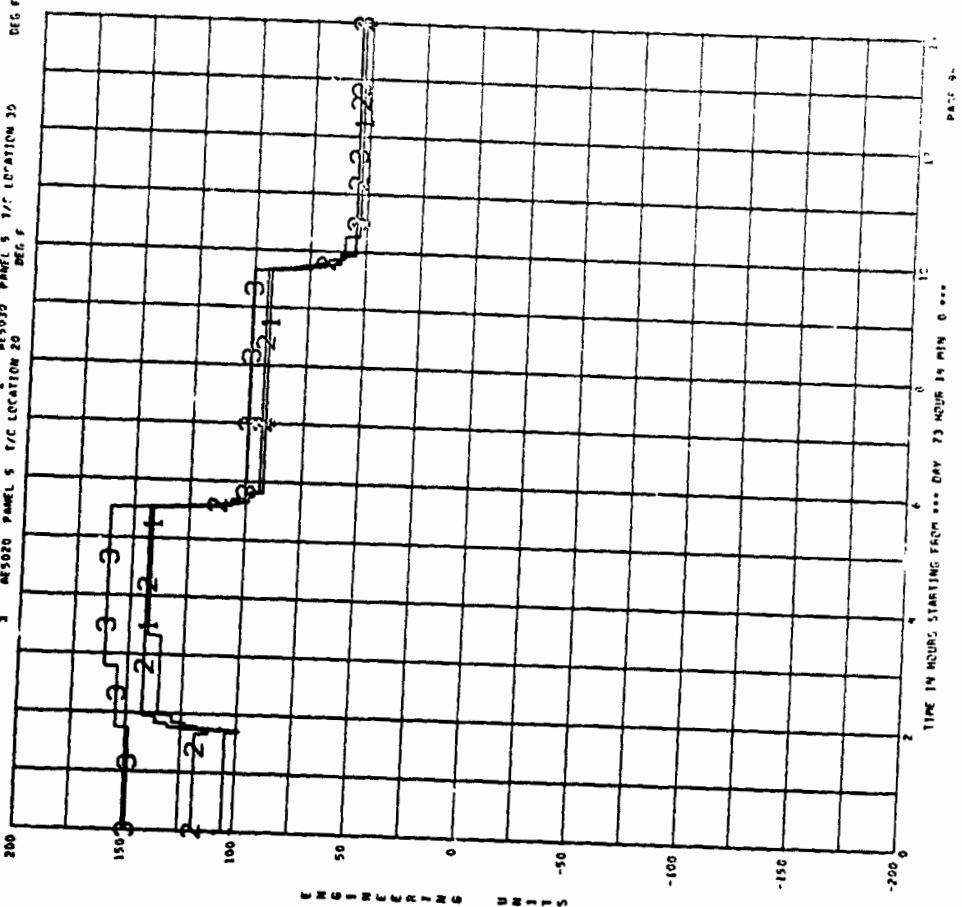


1 MES012 PANEL 5 T/C LOCATION 12 DEG F
 2 MES016 PANEL 5 T/C LOCATION 16 DEG F
 3 MES018 PANEL 5 T/C LOCATION 18 DEG F
 4 MES017 PANEL 5 T/C LOCATION 17 DEG F
 5 MES019 PANEL 5 T/C LOCATION 19 DEG F
 6 MES020 PANEL 5 T/C LOCATION 20 DEG F
 7 MES021 PANEL 5 T/C LOCATION 21 DEG F
 8 MES022 PANEL 5 T/C LOCATION 22 DEG F
 9 MES023 PANEL 5 T/C LOCATION 23 DEG F
 10 MES024 PANEL 5 T/C LOCATION 24 DEG F
 11 MES025 PANEL 5 T/C LOCATION 25 DEG F
 12 MES026 PANEL 5 T/C LOCATION 26 DEG F
 13 MES027 PANEL 5 T/C LOCATION 27 DEG F
 14 MES028 PANEL 5 T/C LOCATION 28 DEG F
 15 MES029 PANEL 5 T/C LOCATION 29 DEG F
 16 MES030 PANEL 5 T/C LOCATION 30 DEG F
 17 MES031 PANEL 5 T/C LOCATION 31 DEG F
 18 MES032 PANEL 5 T/C LOCATION 32 DEG F
 19 MES033 PANEL 5 T/C LOCATION 33 DEG F
 20 MES034 PANEL 5 T/C LOCATION 34 DEG F
 21 MES035 PANEL 5 T/C LOCATION 35 DEG F

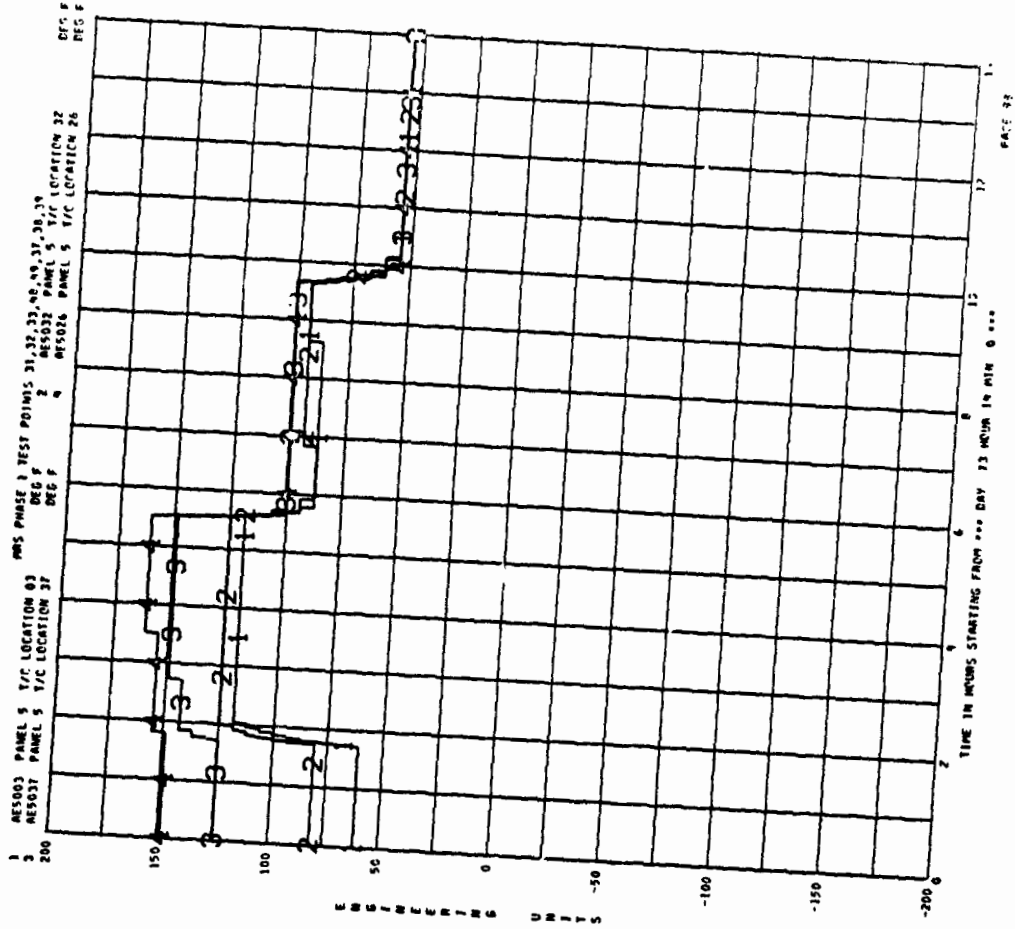
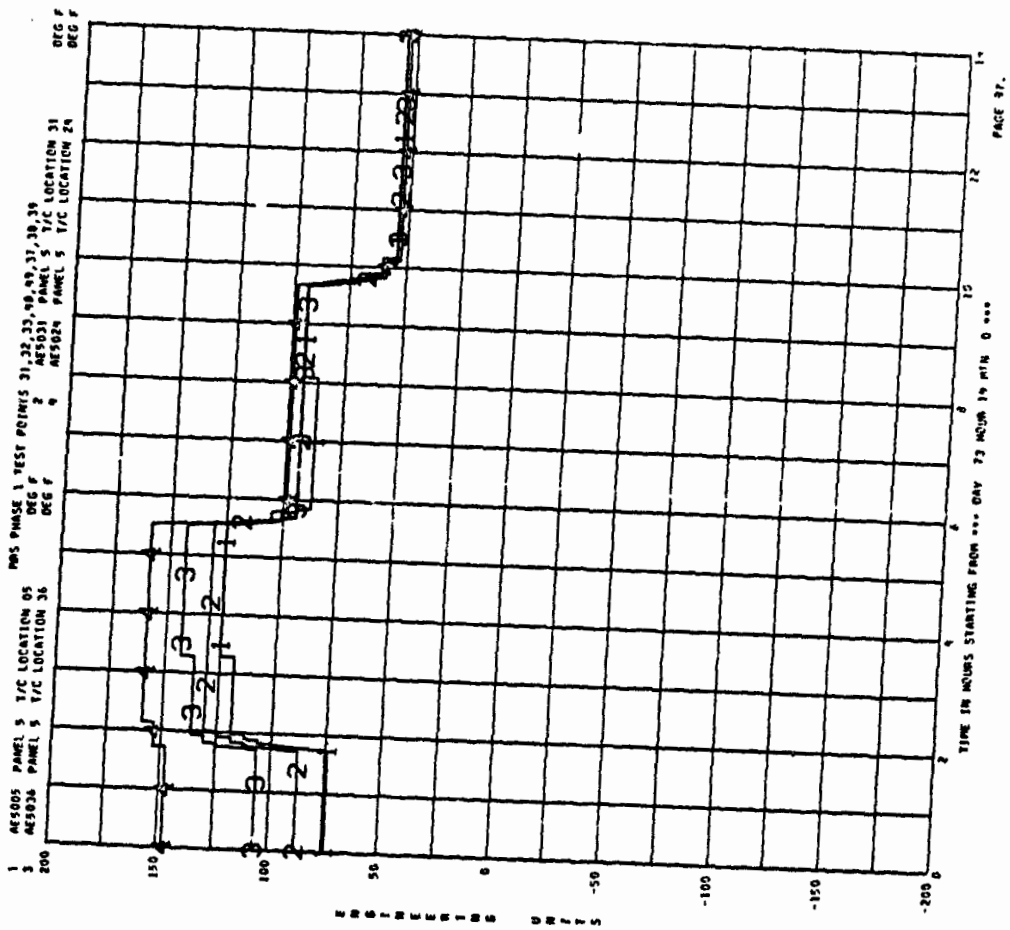


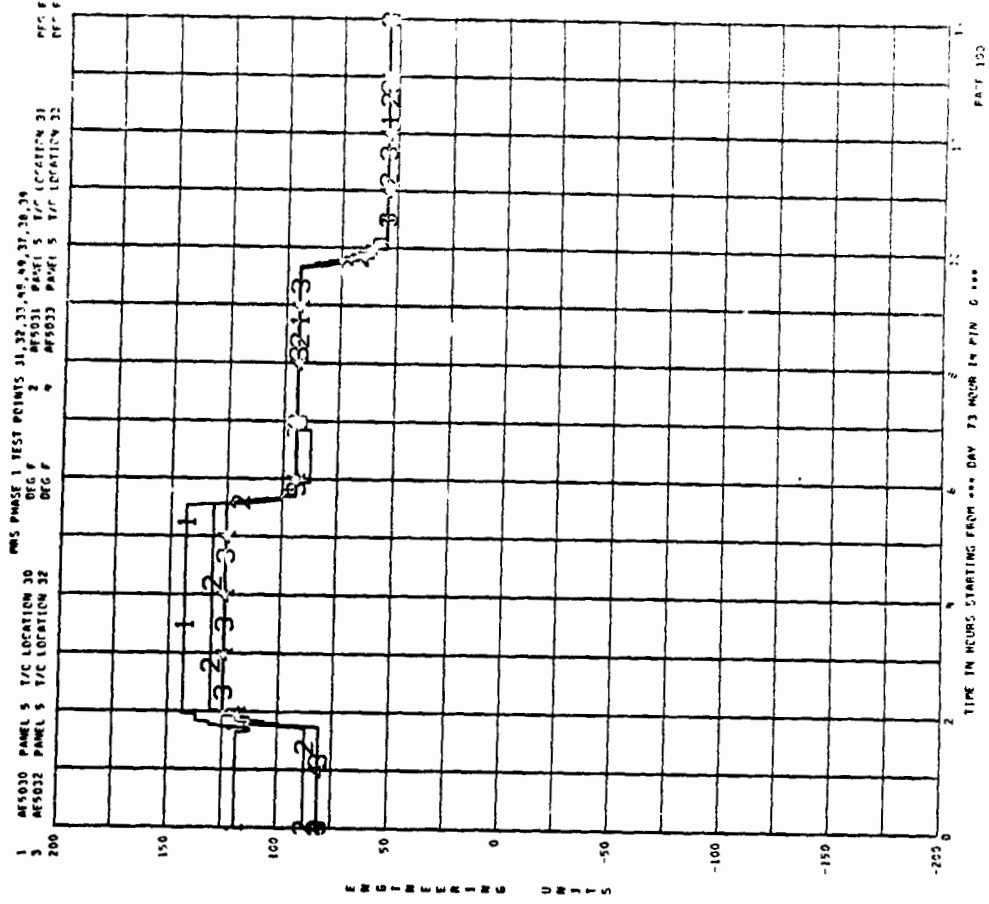
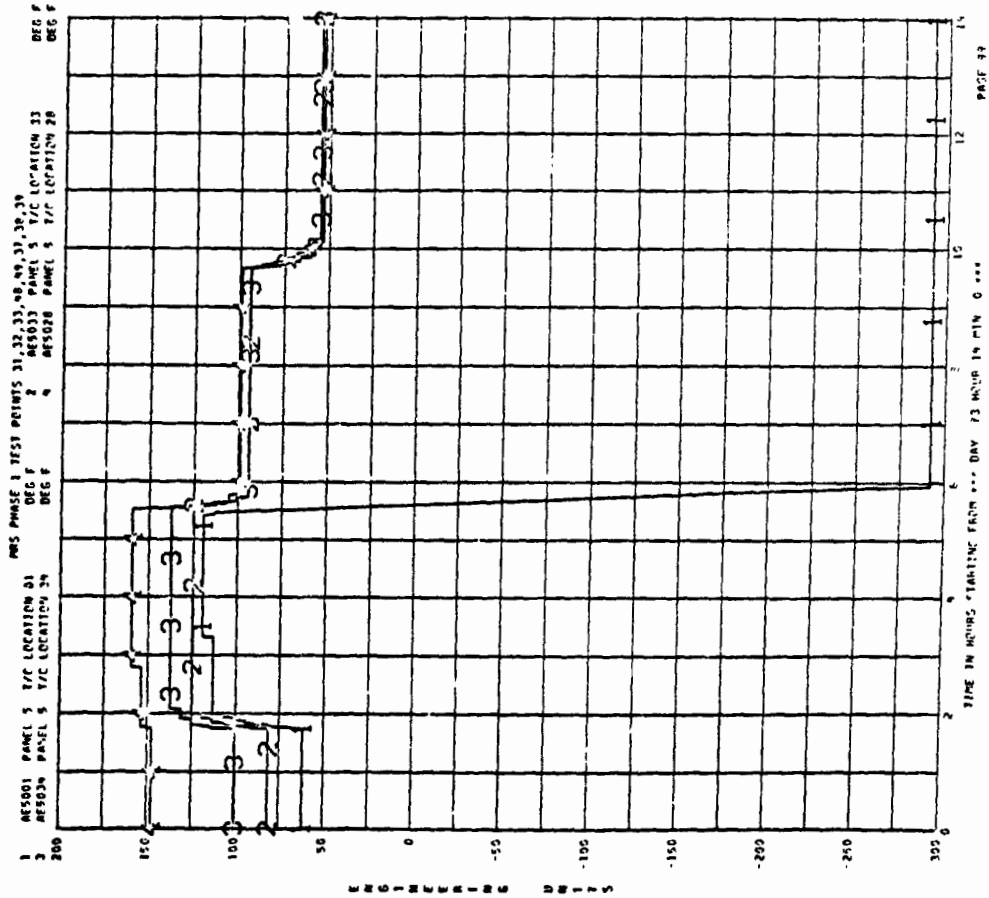
PAGE 95.

1 MES009 PANEL 5 T/C LOCATION 09 DEG F
 2 MES010 PANEL 5 T/C LOCATION 10 DEG F
 3 MES011 PANEL 5 T/C LOCATION 11 DEG F
 4 MES012 PANEL 5 T/C LOCATION 12 DEG F
 5 MES013 PANEL 5 T/C LOCATION 13 DEG F
 6 MES014 PANEL 5 T/C LOCATION 14 DEG F
 7 MES015 PANEL 5 T/C LOCATION 15 DEG F
 8 MES016 PANEL 5 T/C LOCATION 16 DEG F
 9 MES017 PANEL 5 T/C LOCATION 17 DEG F
 10 MES018 PANEL 5 T/C LOCATION 18 DEG F
 11 MES019 PANEL 5 T/C LOCATION 19 DEG F
 12 MES020 PANEL 5 T/C LOCATION 20 DEG F
 13 MES021 PANEL 5 T/C LOCATION 21 DEG F
 14 MES022 PANEL 5 T/C LOCATION 22 DEG F
 15 MES023 PANEL 5 T/C LOCATION 23 DEG F
 16 MES024 PANEL 5 T/C LOCATION 24 DEG F
 17 MES025 PANEL 5 T/C LOCATION 25 DEG F
 18 MES026 PANEL 5 T/C LOCATION 26 DEG F
 19 MES027 PANEL 5 T/C LOCATION 27 DEG F
 20 MES028 PANEL 5 T/C LOCATION 28 DEG F
 21 MES029 PANEL 5 T/C LOCATION 29 DEG F
 22 MES030 PANEL 5 T/C LOCATION 30 DEG F
 23 MES031 PANEL 5 T/C LOCATION 31 DEG F
 24 MES032 PANEL 5 T/C LOCATION 32 DEG F
 25 MES033 PANEL 5 T/C LOCATION 33 DEG F
 26 MES034 PANEL 5 T/C LOCATION 34 DEG F
 27 MES035 PANEL 5 T/C LOCATION 35 DEG F

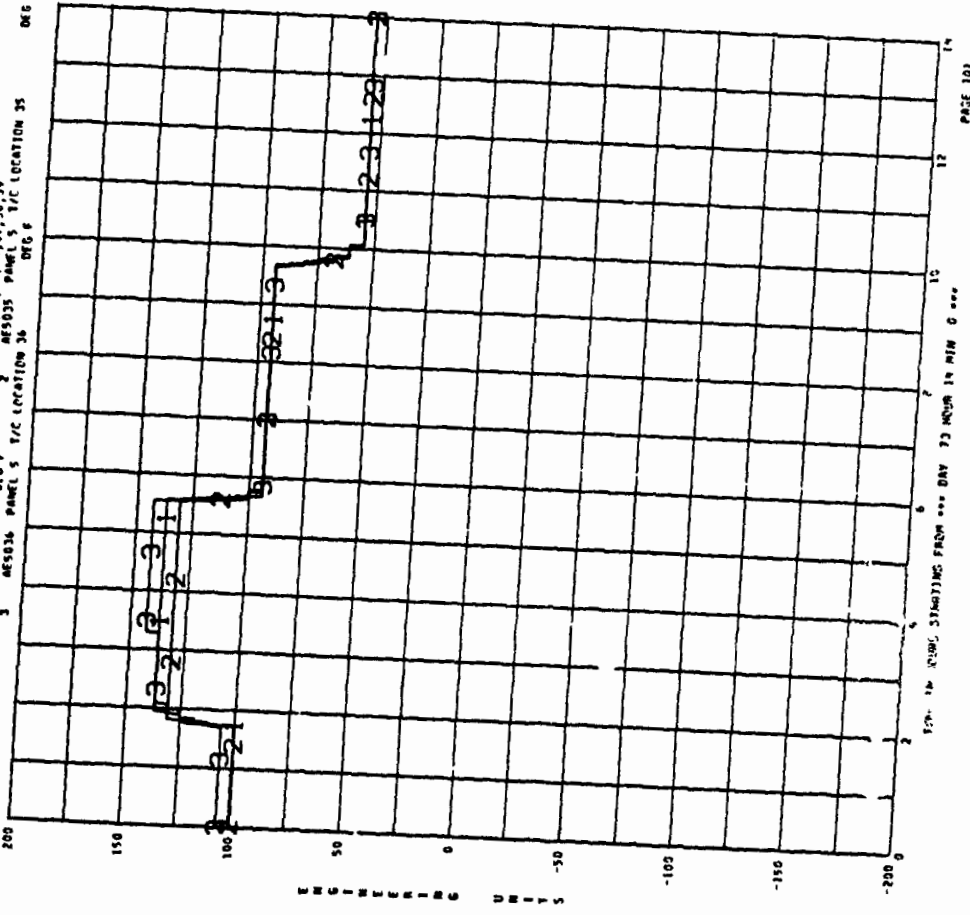


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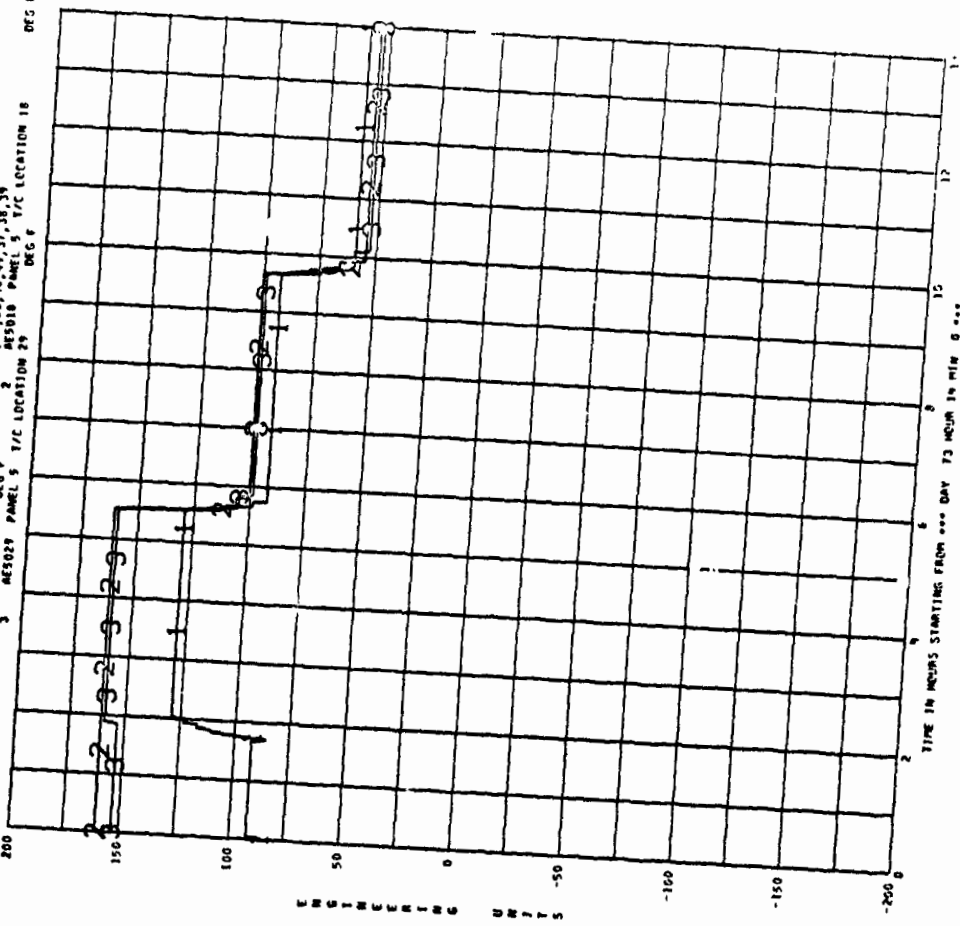


1 RES034 PANEL 5 T/C LOCATION 34
 200 3
 PMS PHASE 1 TEST POINTS 31, 32, 33, 34, 35, 36, 37, 38, 39
 DEG F 2 RES035 PANEL 5 T/C LOCATION 35
 DEG F 3
 RES036 PANEL 5 T/C LOCATION 36
 DEG F

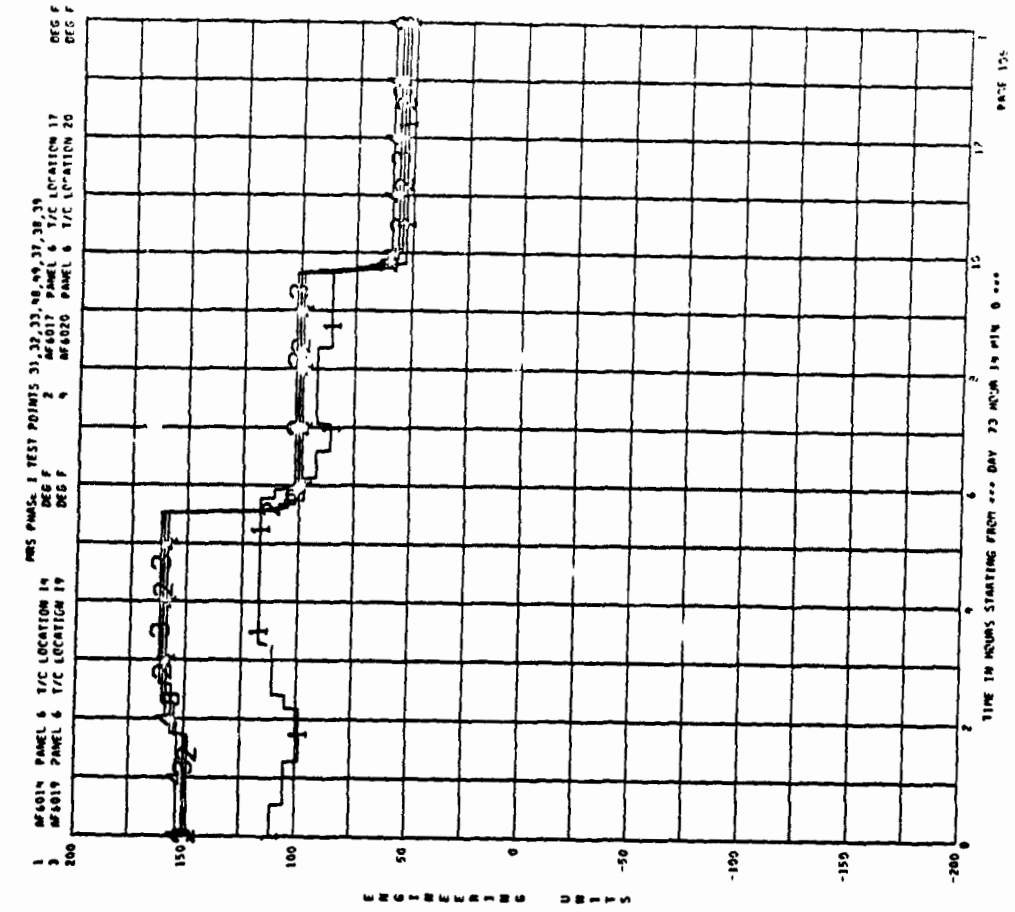
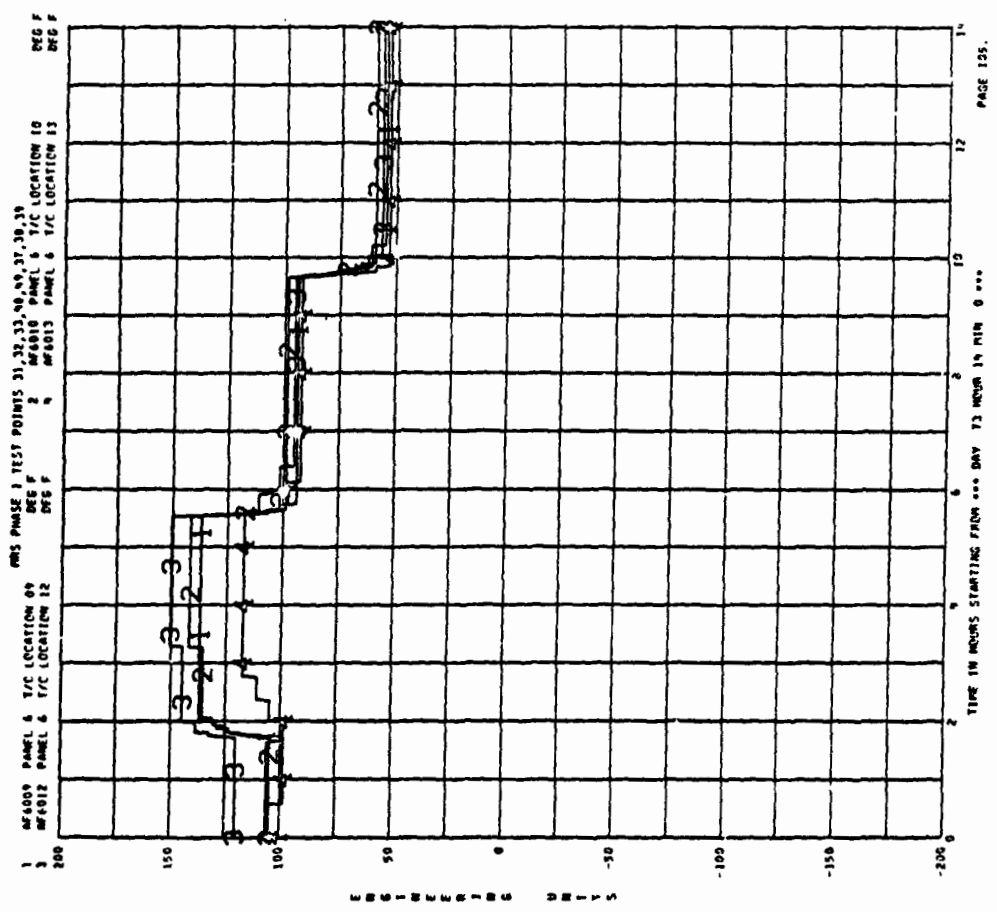


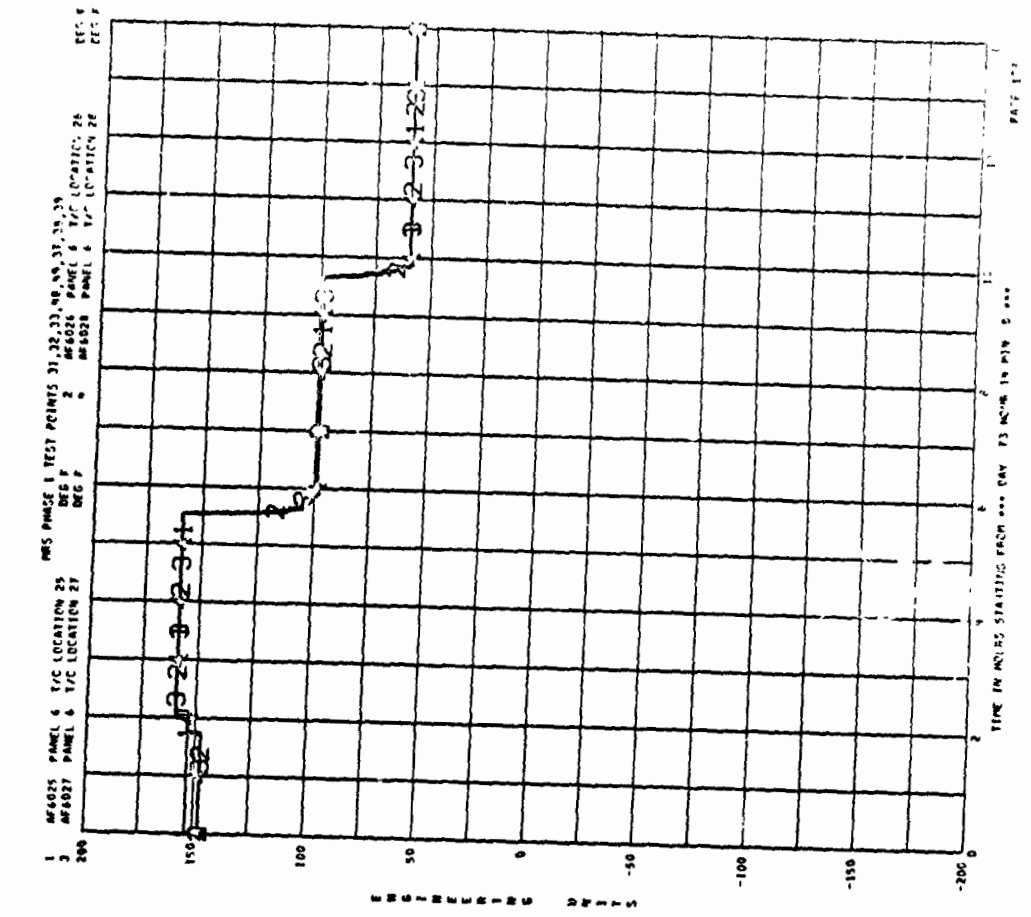
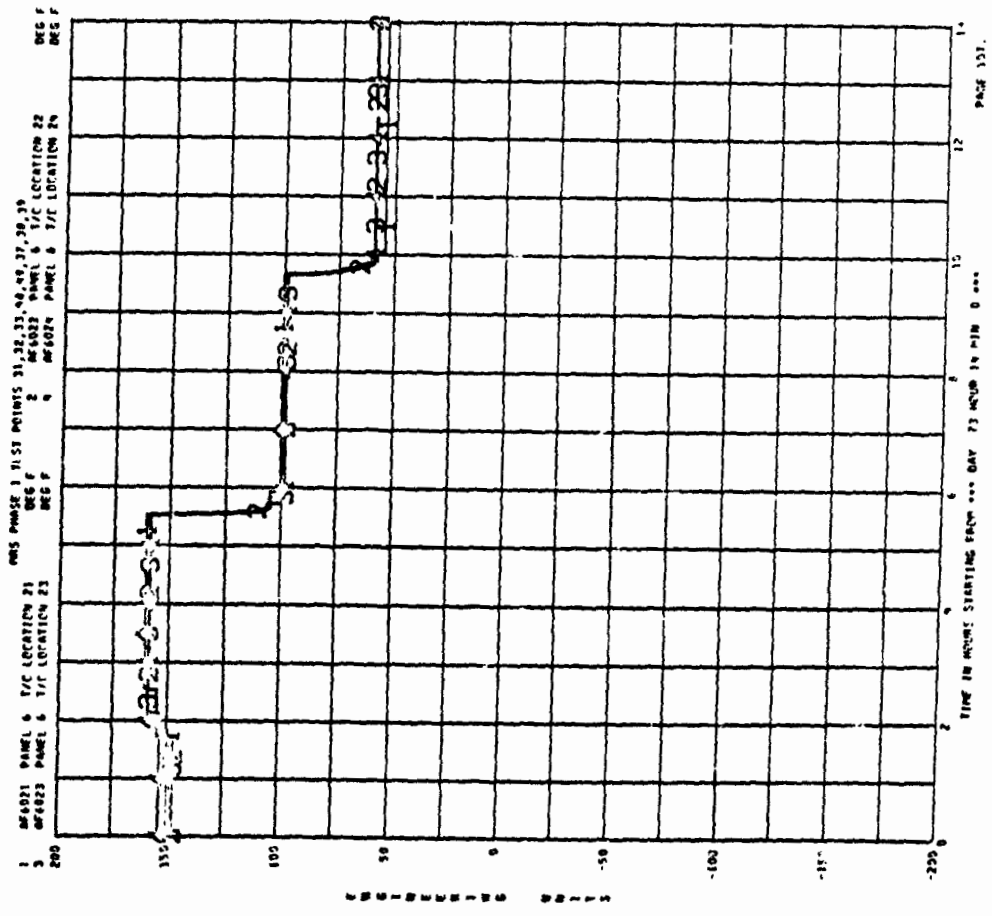
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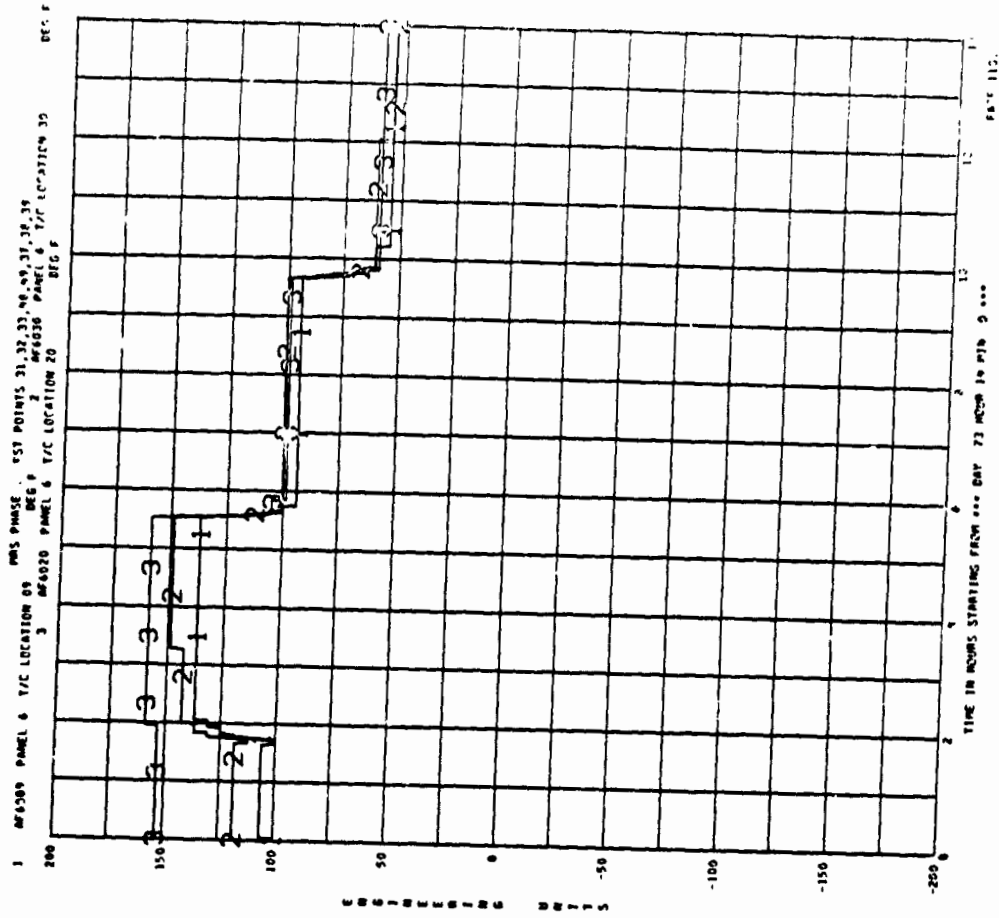
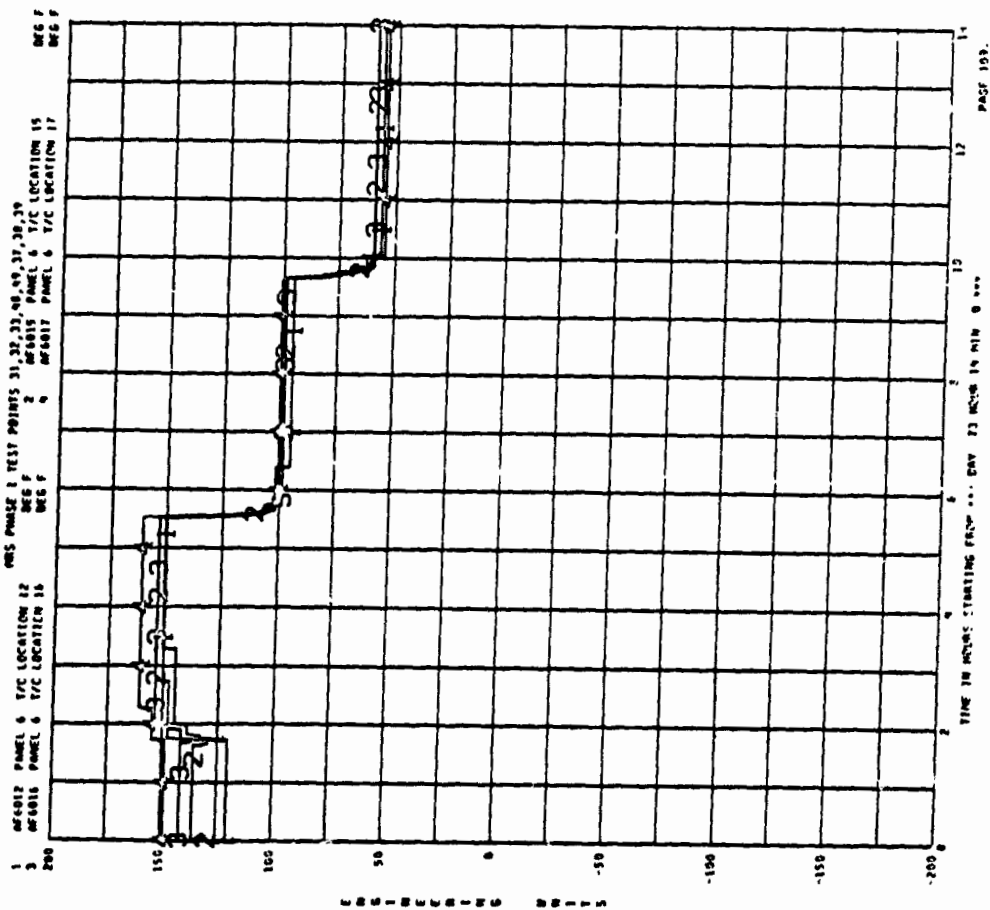
1 RES011 PANEL 5 T/C LOCATION 11
 200 3
 PMS PHASE 1 TEST POINTS 31, 32, 33, 34, 35, 36, 37, 38, 39
 DEG F 2 RES018 PANEL 5 T/C LOCATION 18
 DEG F 3
 RES029 PANEL 5 T/C LOCATION 29
 DEG F

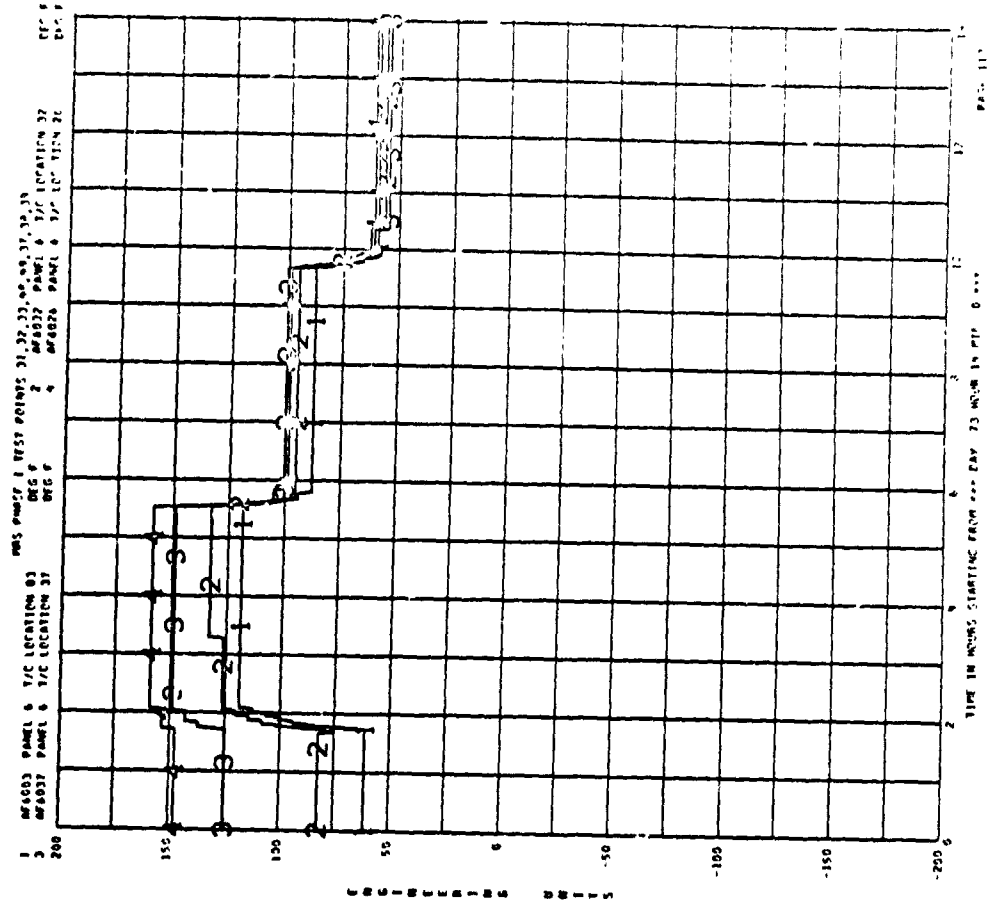
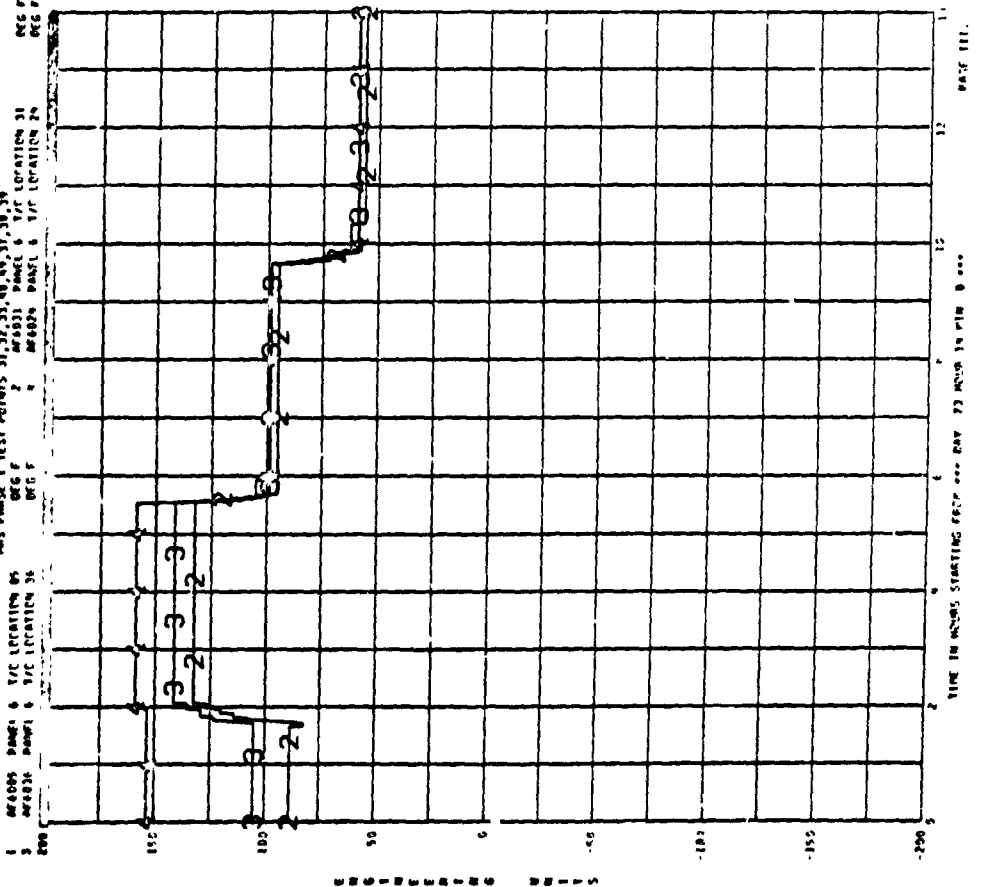


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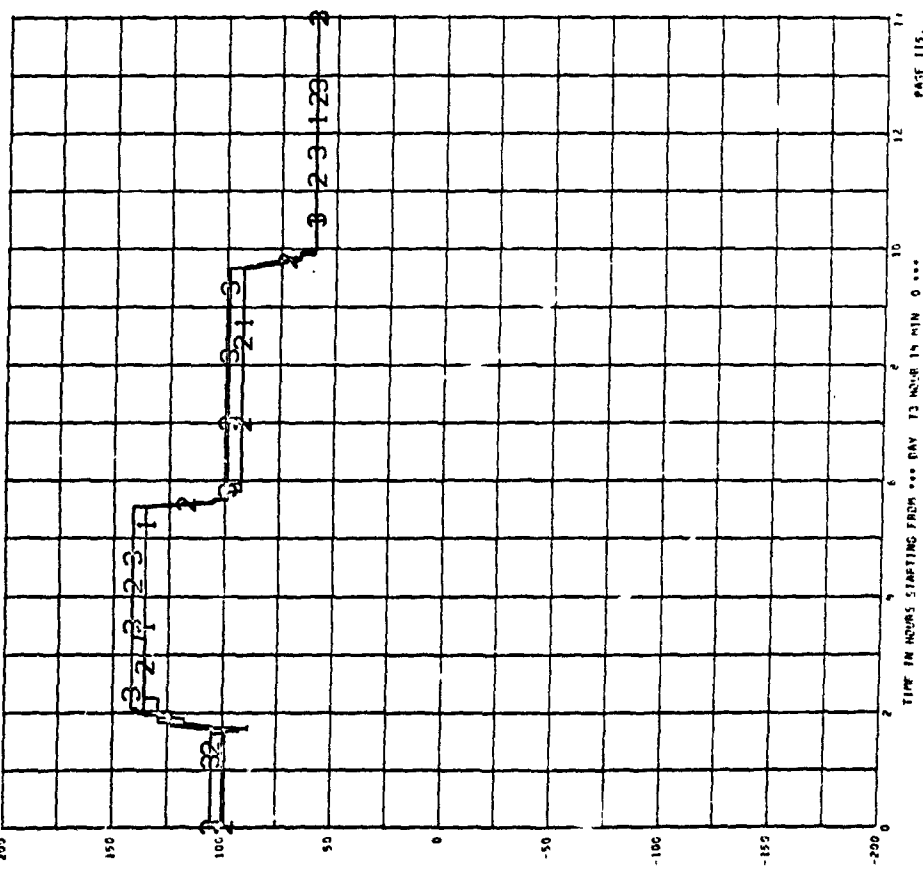






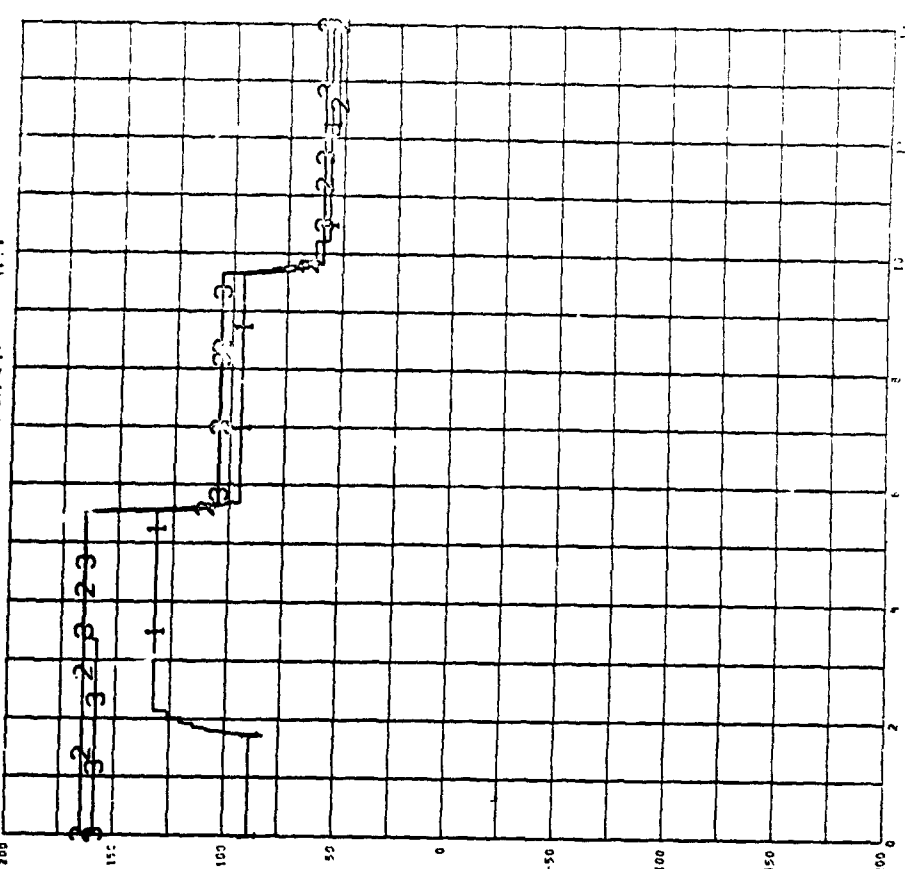


1 MASON PANEL 6 1/2 LOCATION 34
 2 MASON PANEL 6 1/2 LOCATION 35
 3 MASON PANEL 6 1/2 LOCATION 36



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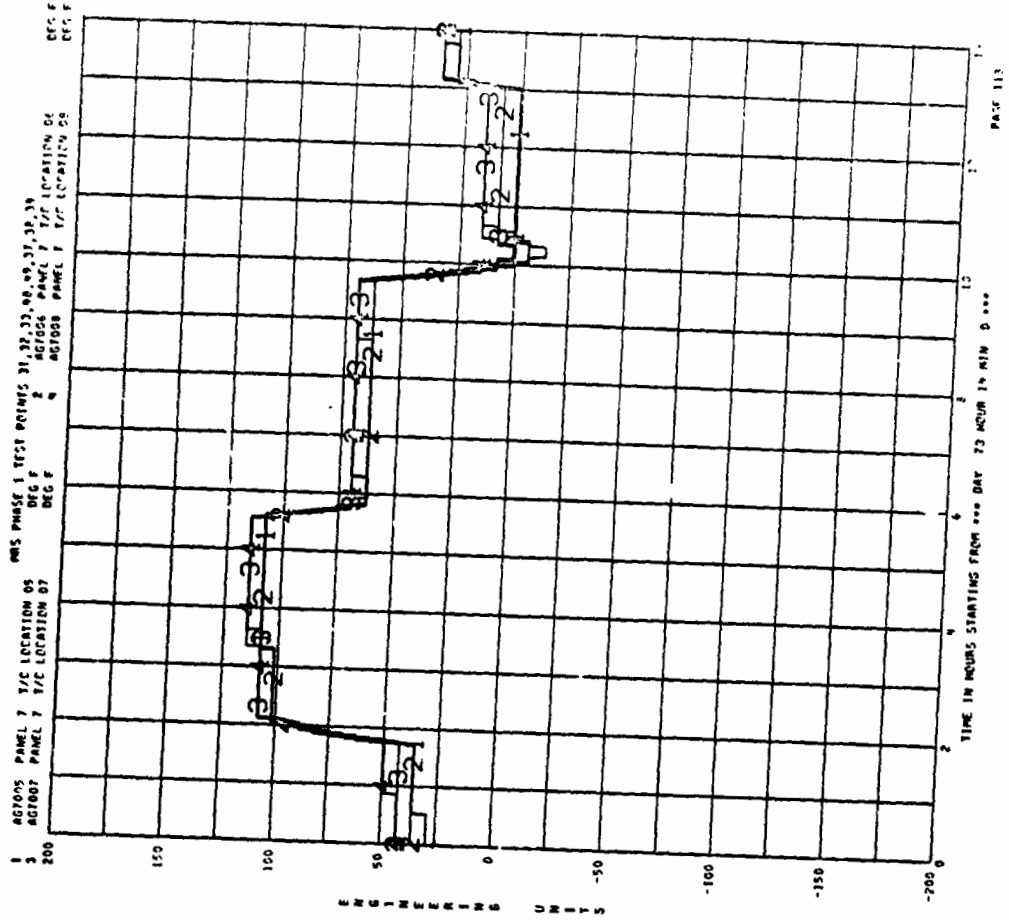
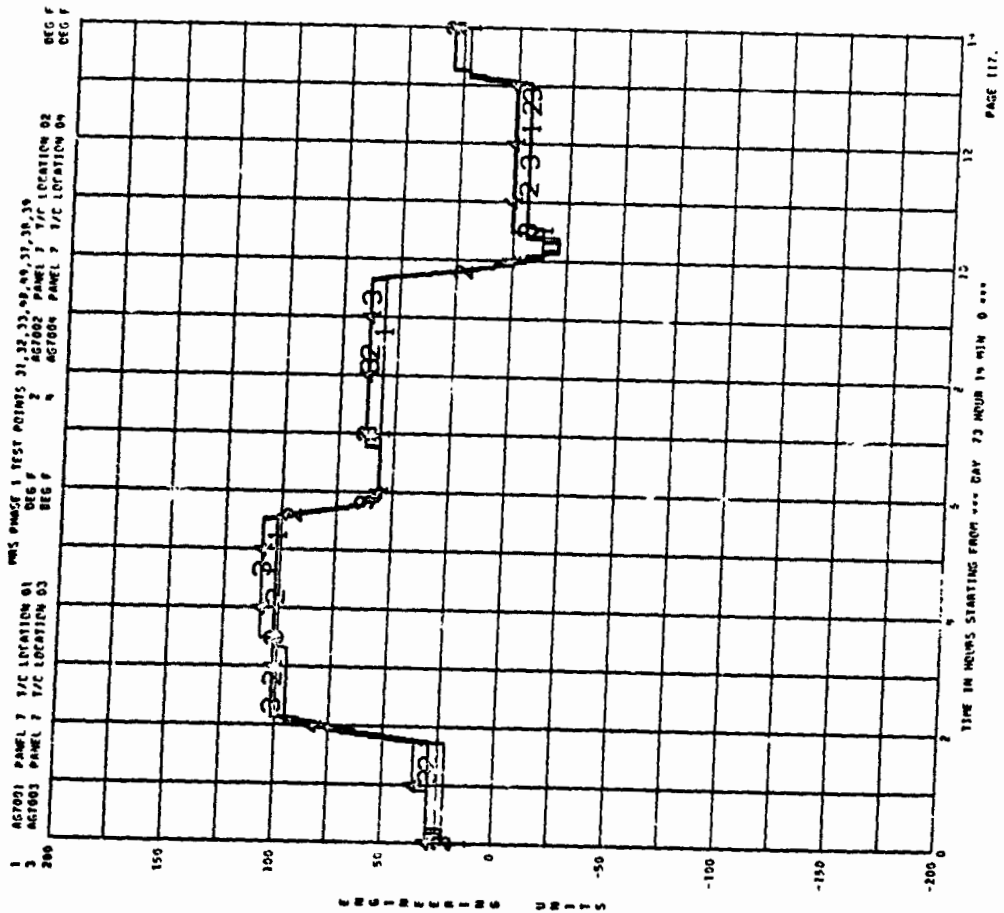
1 MASON PANEL 6 1/2 LOCATION 31
 2 MASON PANEL 6 1/2 LOCATION 32
 3 MASON PANEL 6 1/2 LOCATION 33

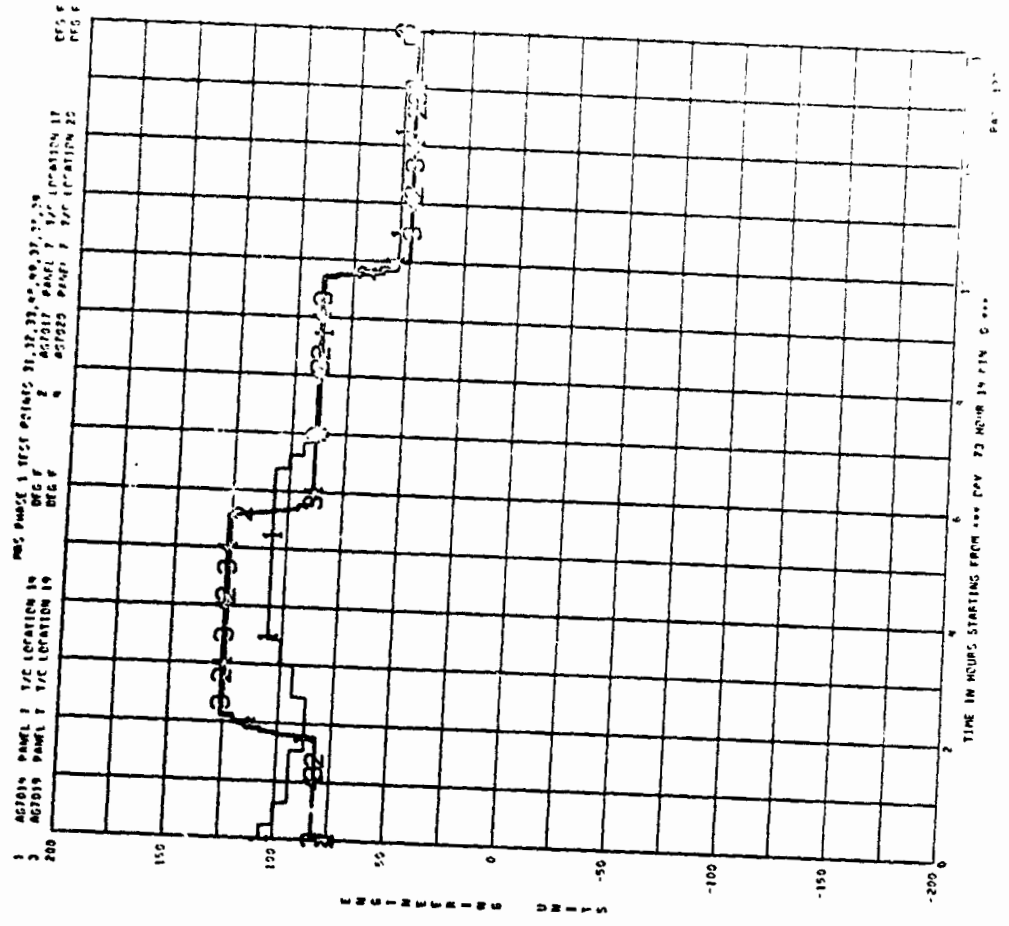
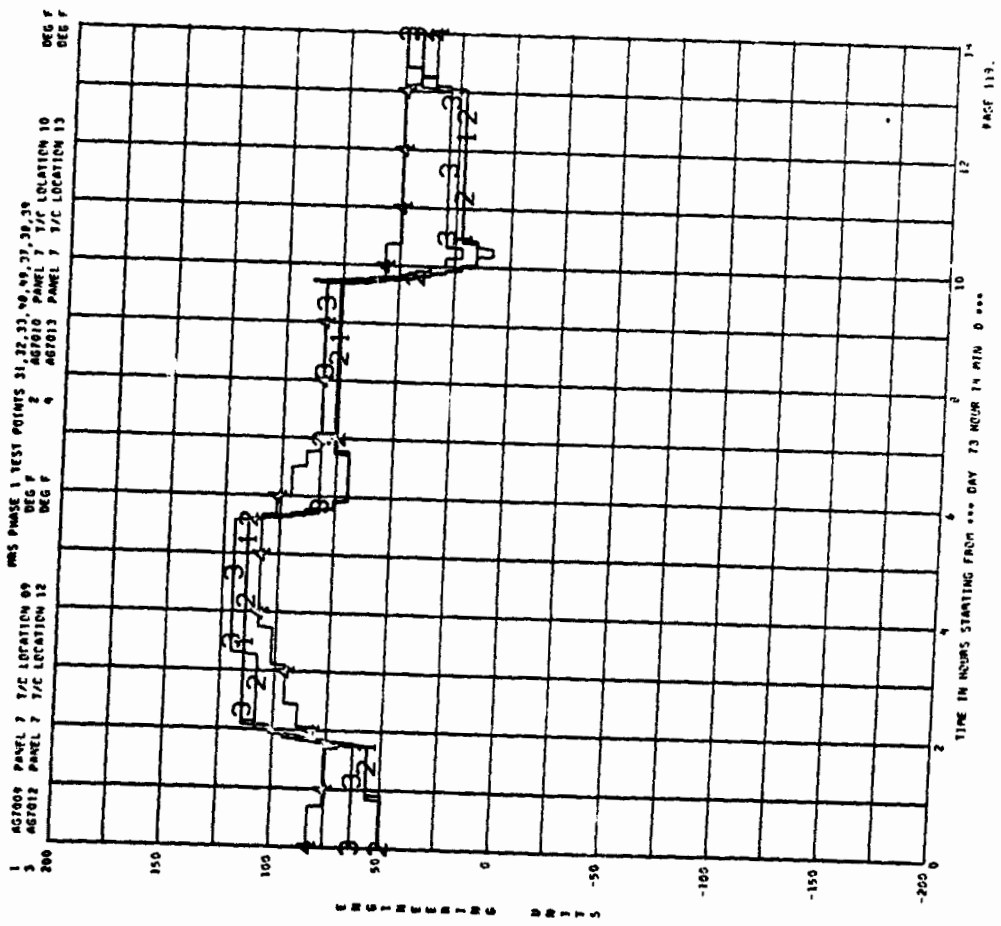


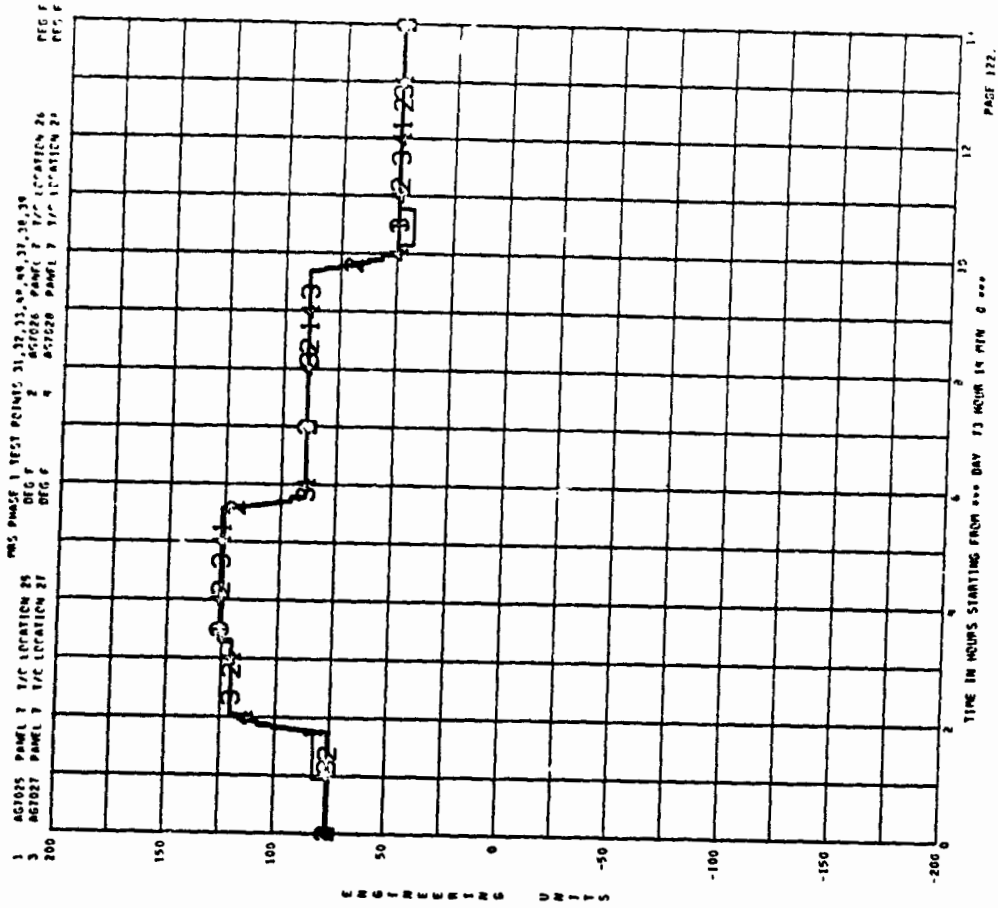
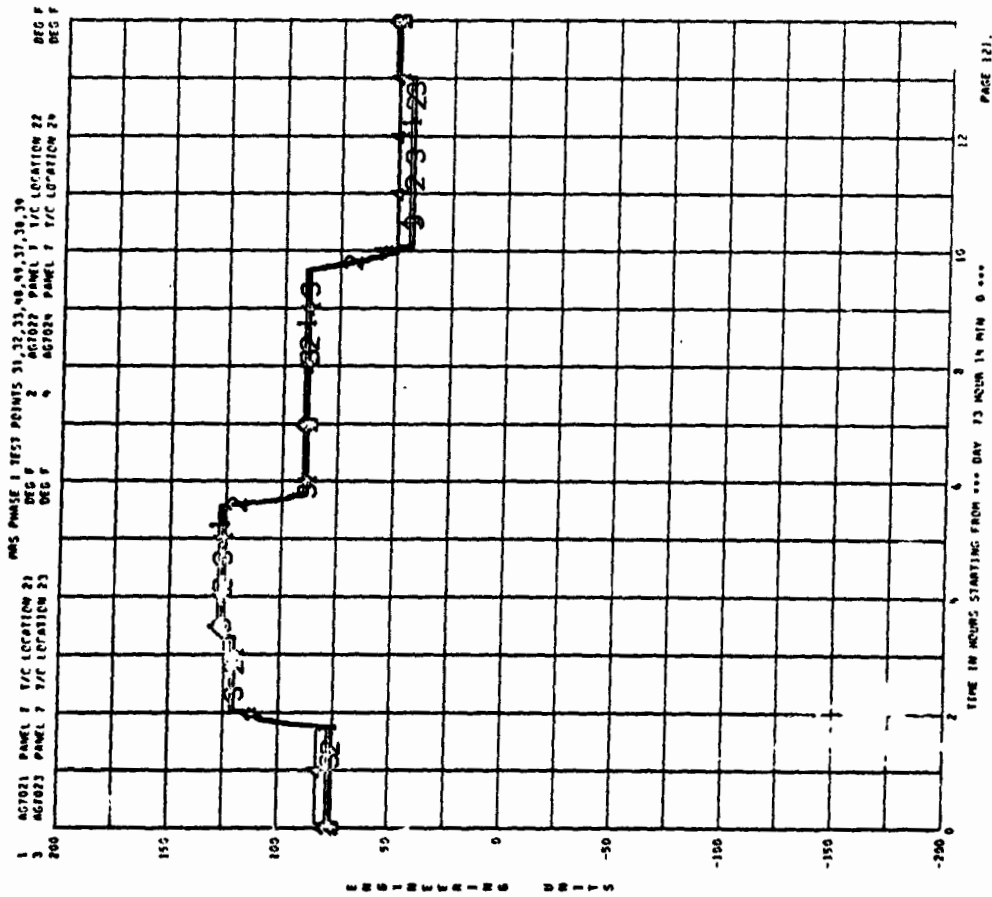
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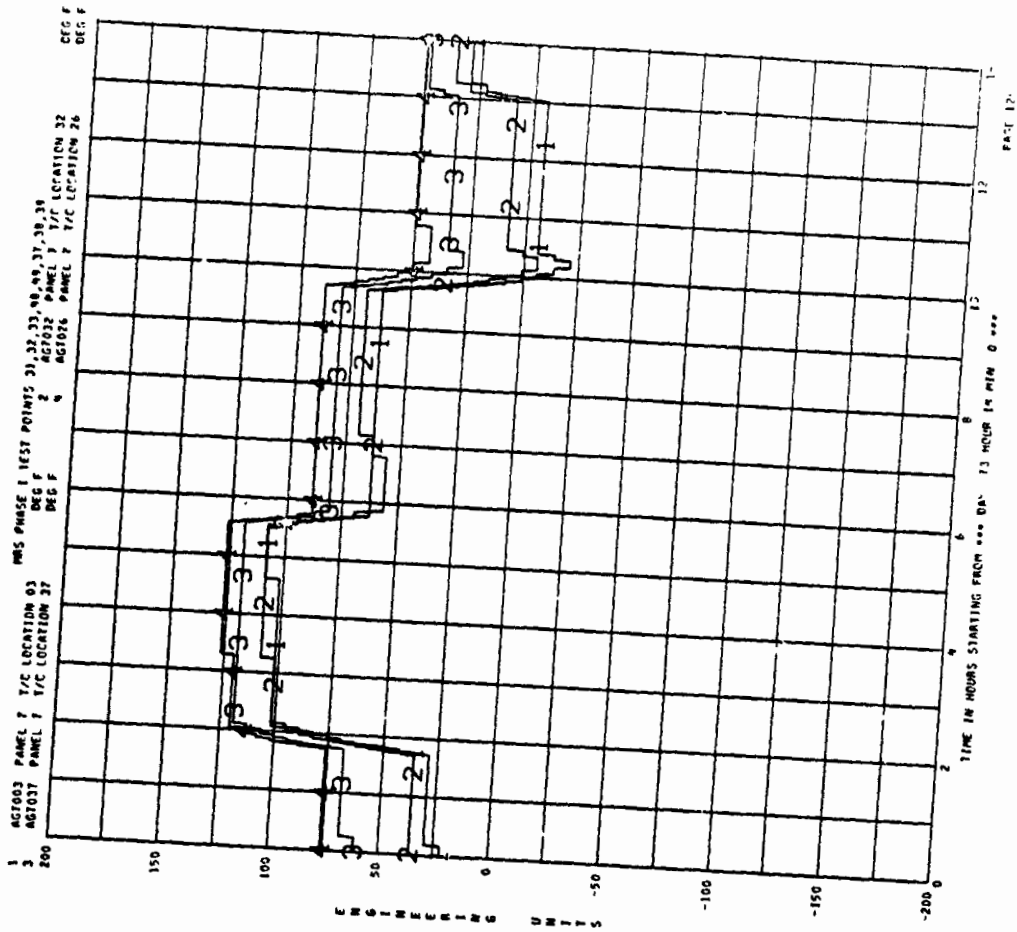
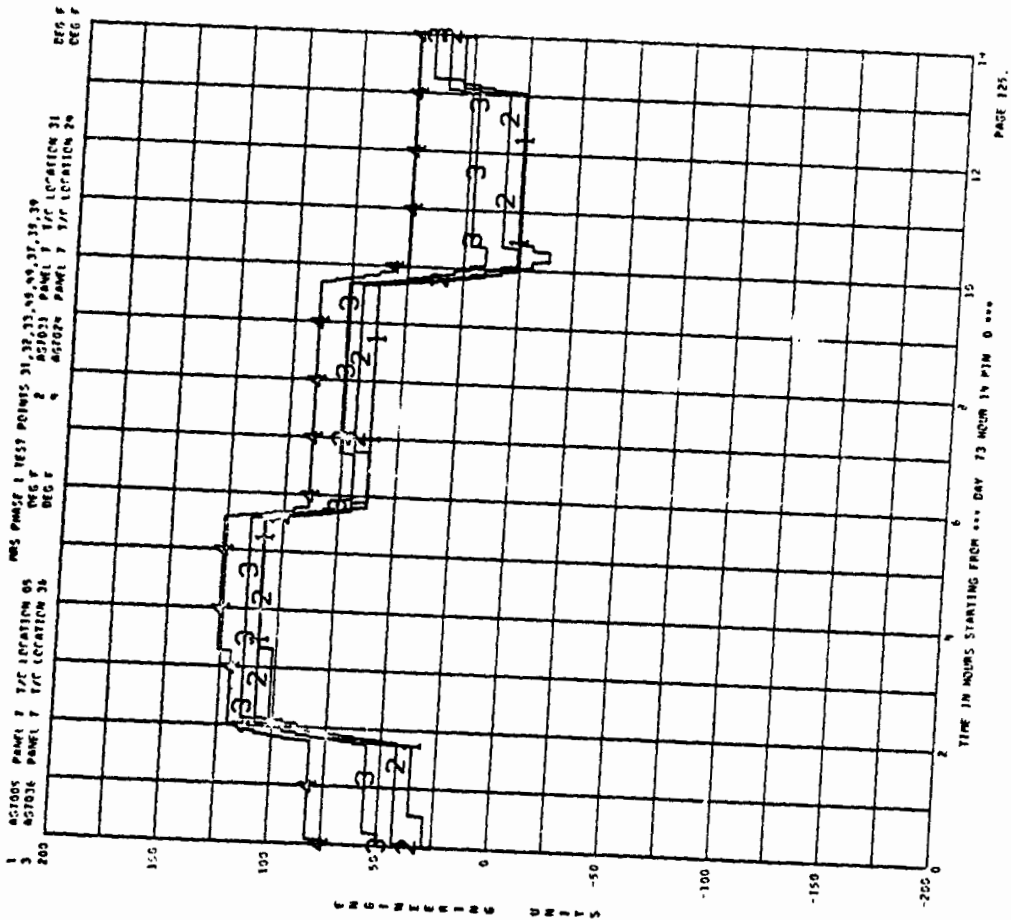
ENGINEERING UNITS

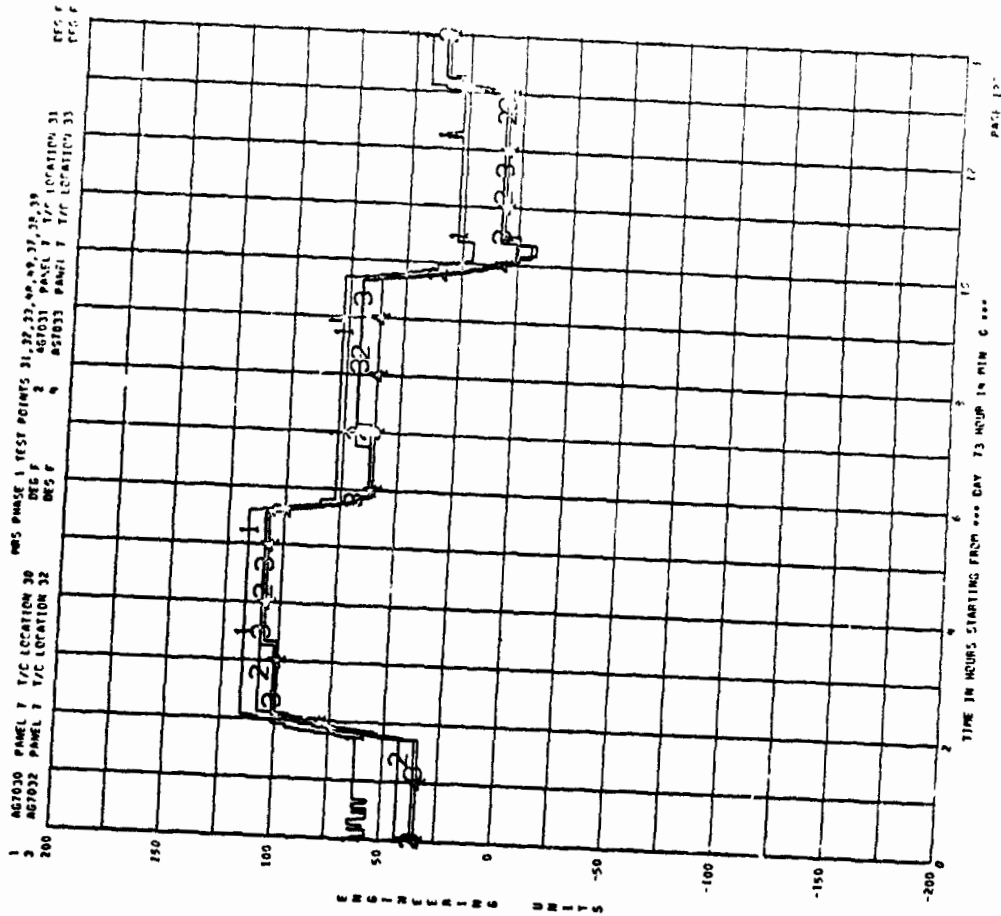
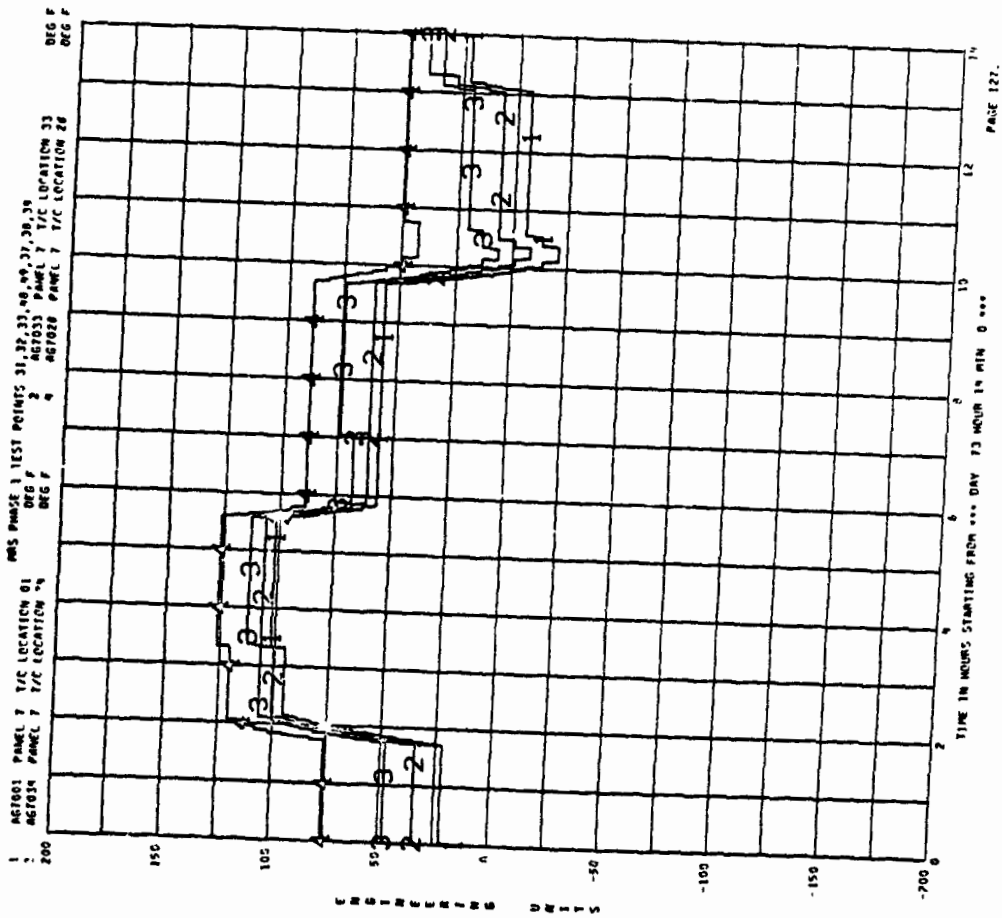
ENGINEERING UNITS



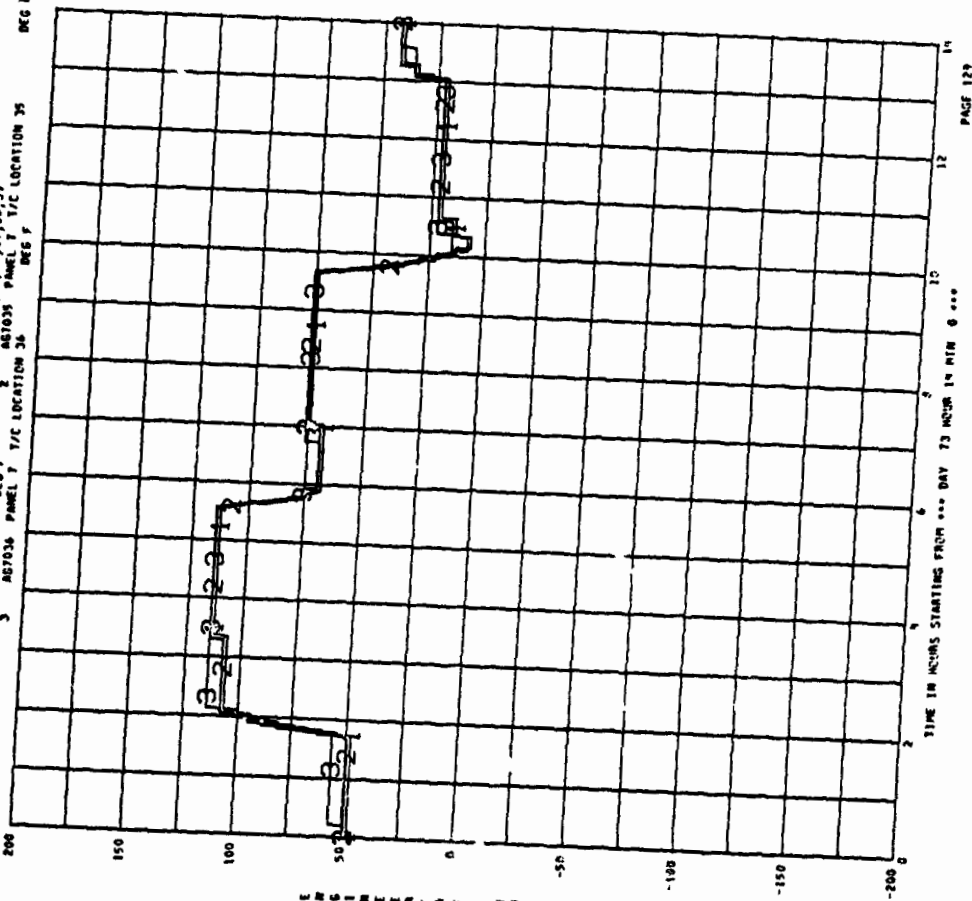






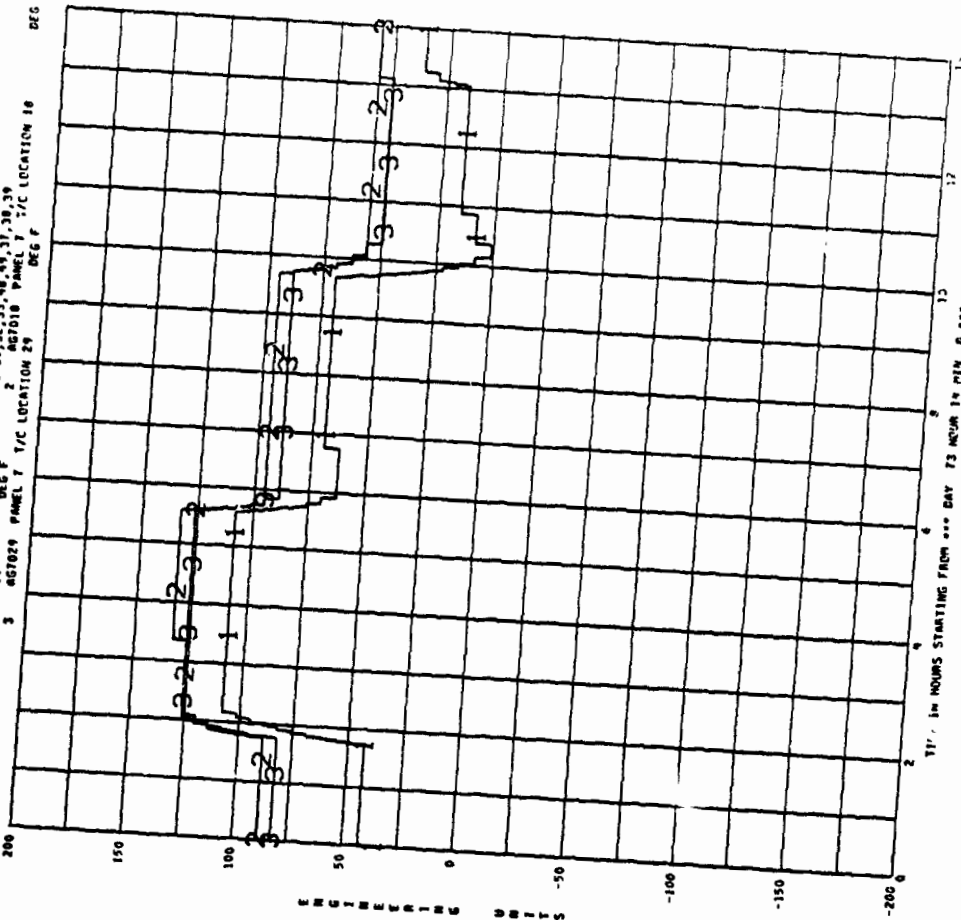


1 AG7034 PANEL 7 T/C LOCATION 34 RMS PHASE 1 TEST POINTS 31,32,33,49,59,57,38,39 DEG F
 2 AG7035 PANEL 7 T/C LOCATION 35 DEG F
 3 AG7036 PANEL 7 T/C LOCATION 36 DEG F

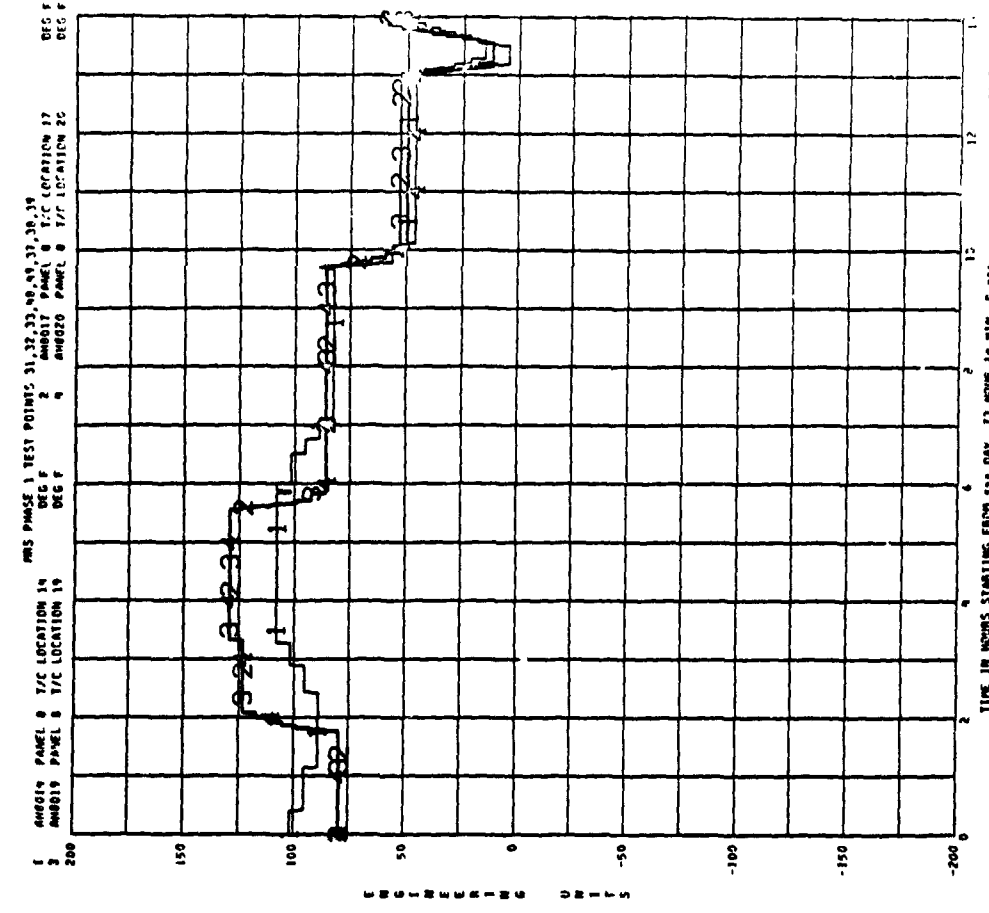
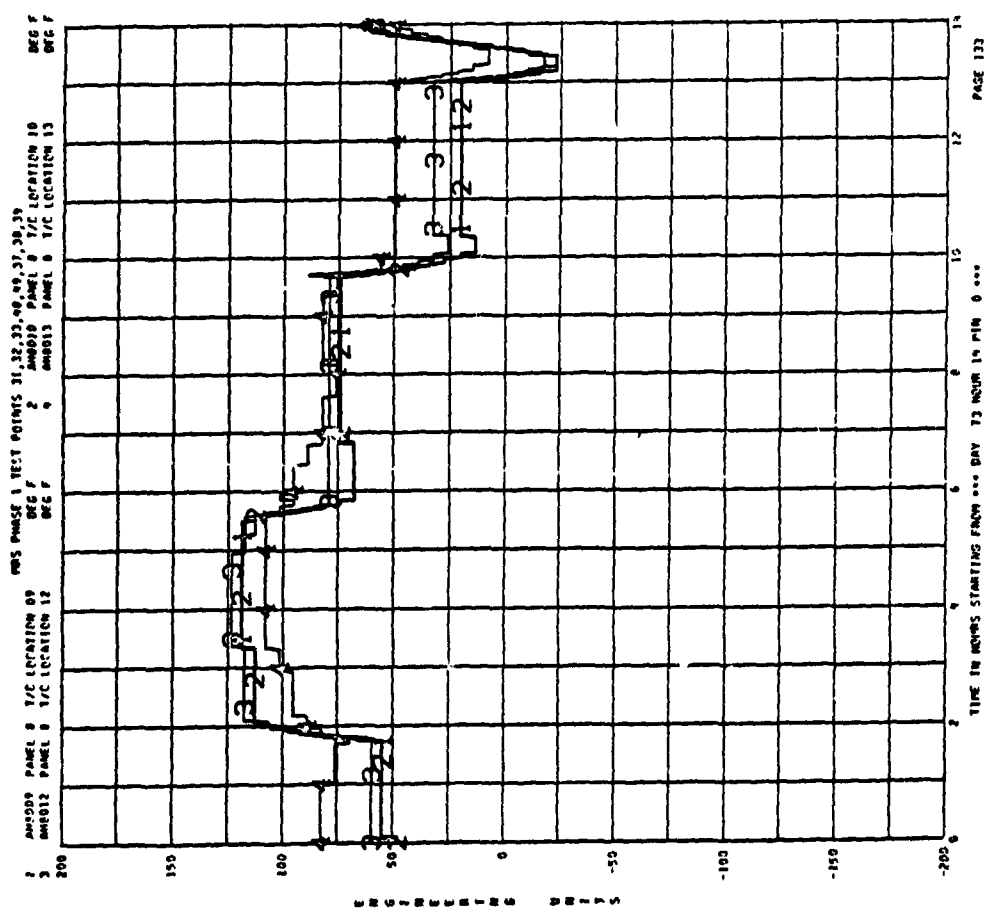


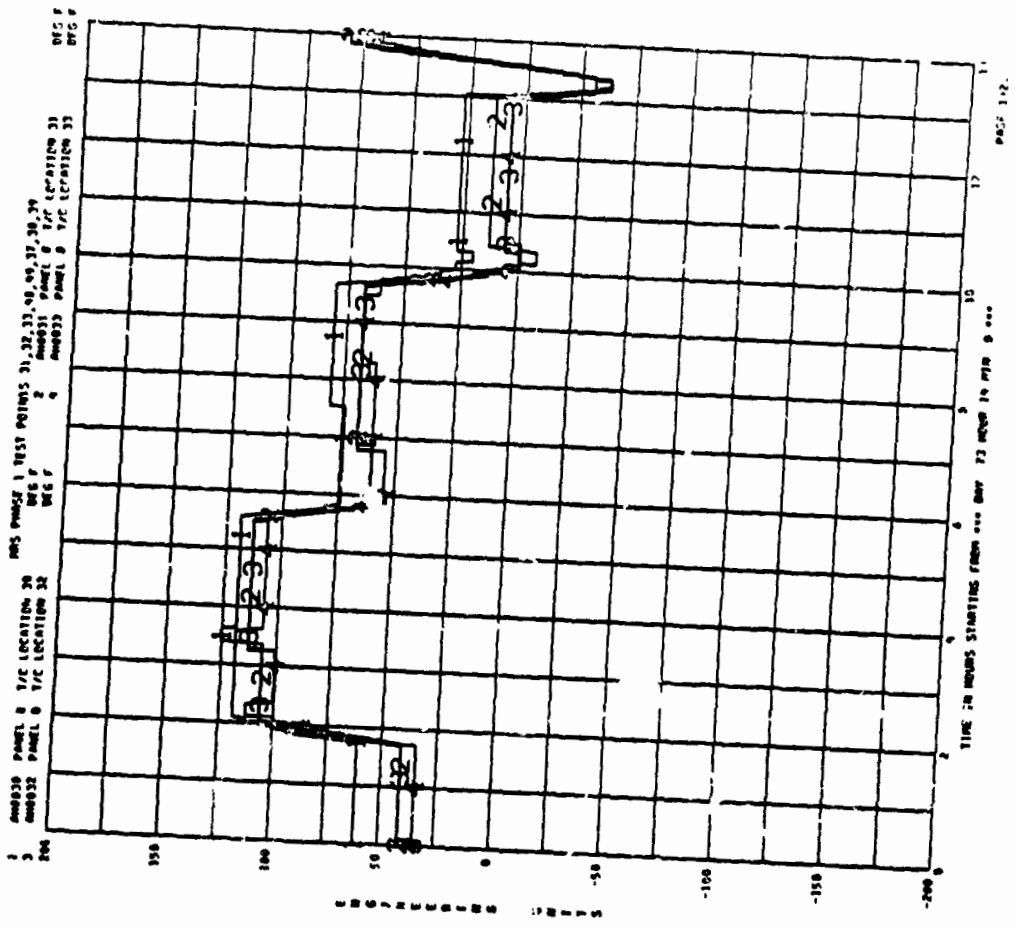
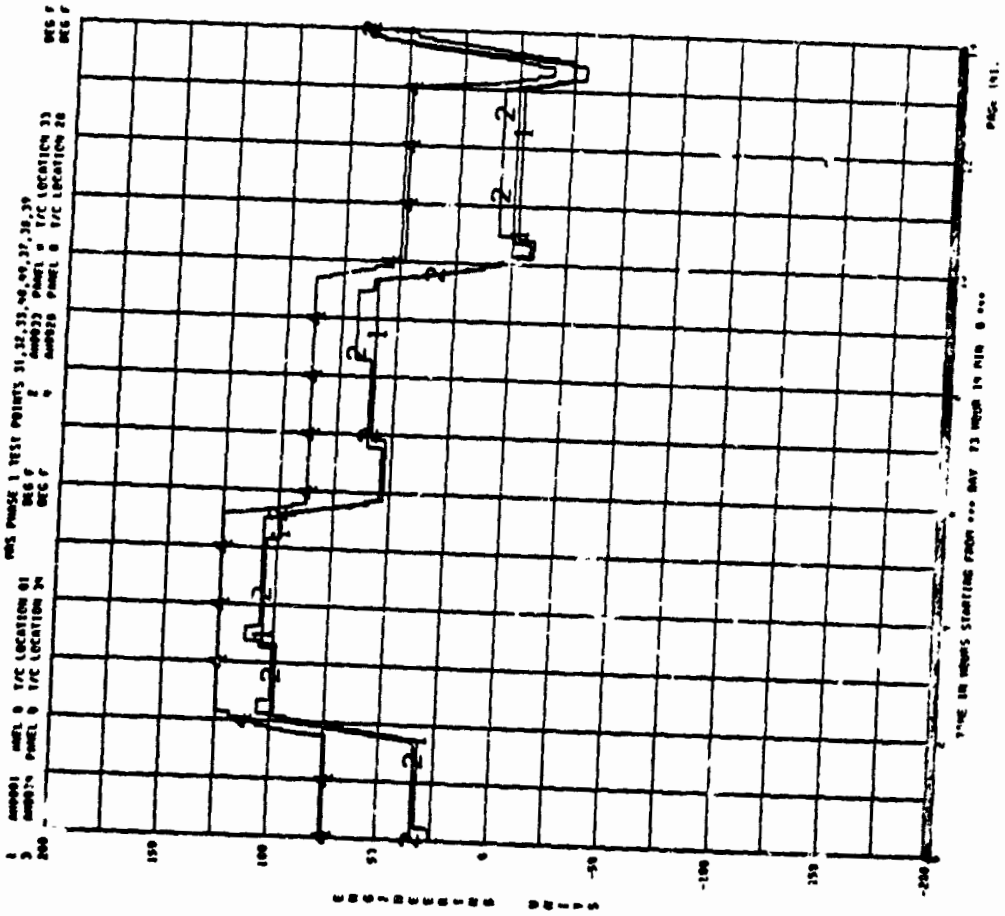
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1 AG7011 PANEL 7 T/C LOCATION 11 RMS PHASE 1 TEST POINTS 31,32,33,49,59,57,38,39 DEG F
 2 AG7018 PANEL 7 T/C LOCATION 18 DEG F
 3 AG7029 PANEL 7 T/C LOCATION 29 DEG F

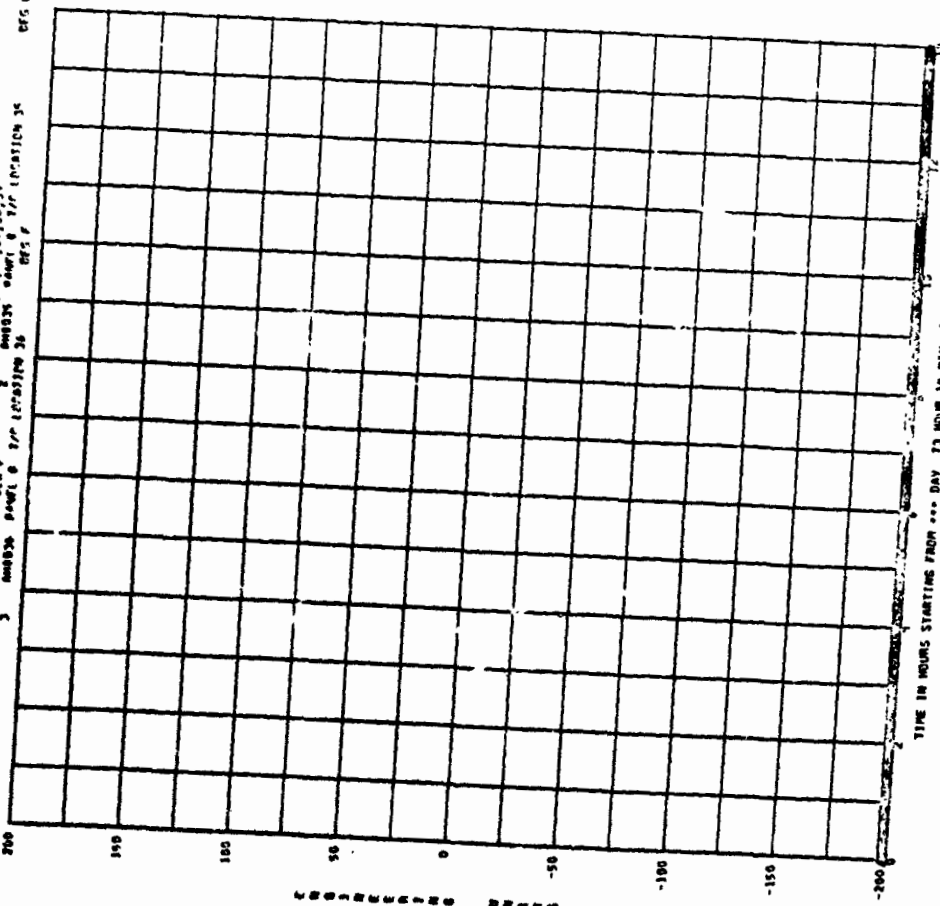


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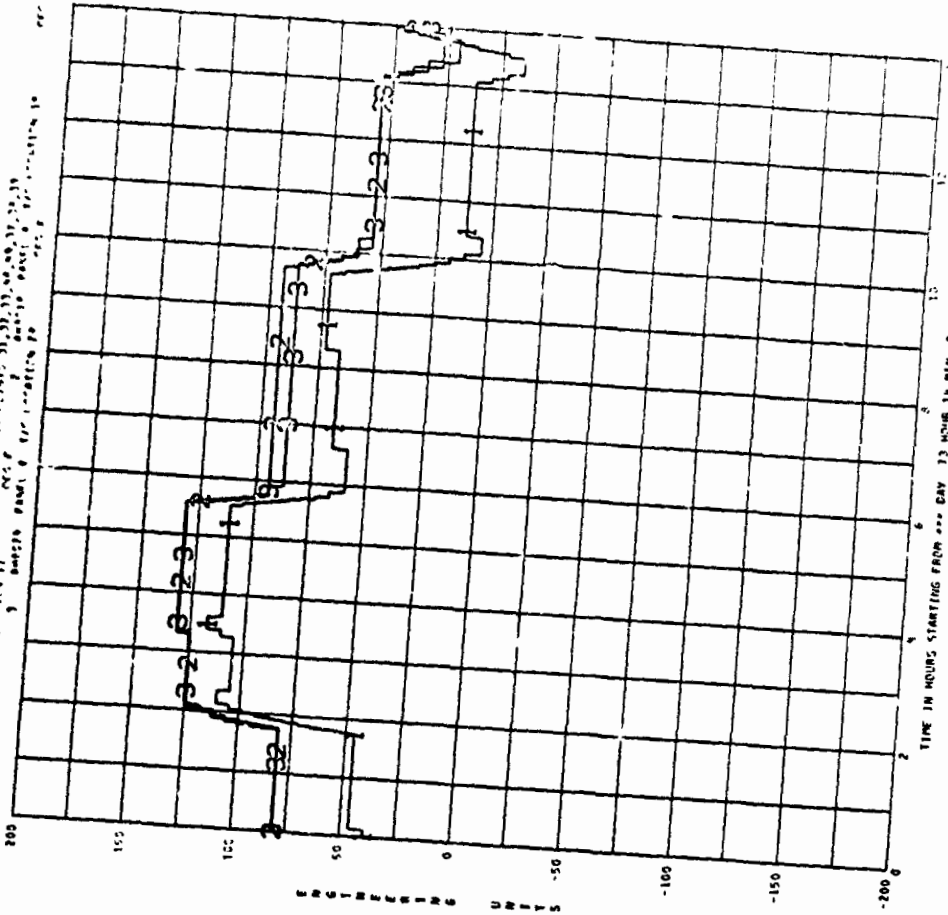


1 AMPS11 PANEL 0 TPC LOCATION 34
 200 150 100 50 0 -50 -100 -150 -200
 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 TIME IN HOURS STARTING FROM *** DAY 73 HOUR IN MIN 0 ***



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1 AMPS11 PANEL 0 TPC LOCATION 31
 200 150 100 50 0 -50 -100 -150 -200
 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 TIME IN HOURS STARTING FROM *** DAY 73 HOUR IN MIN 0 ***



CROSS-SECTIONAL UNITS

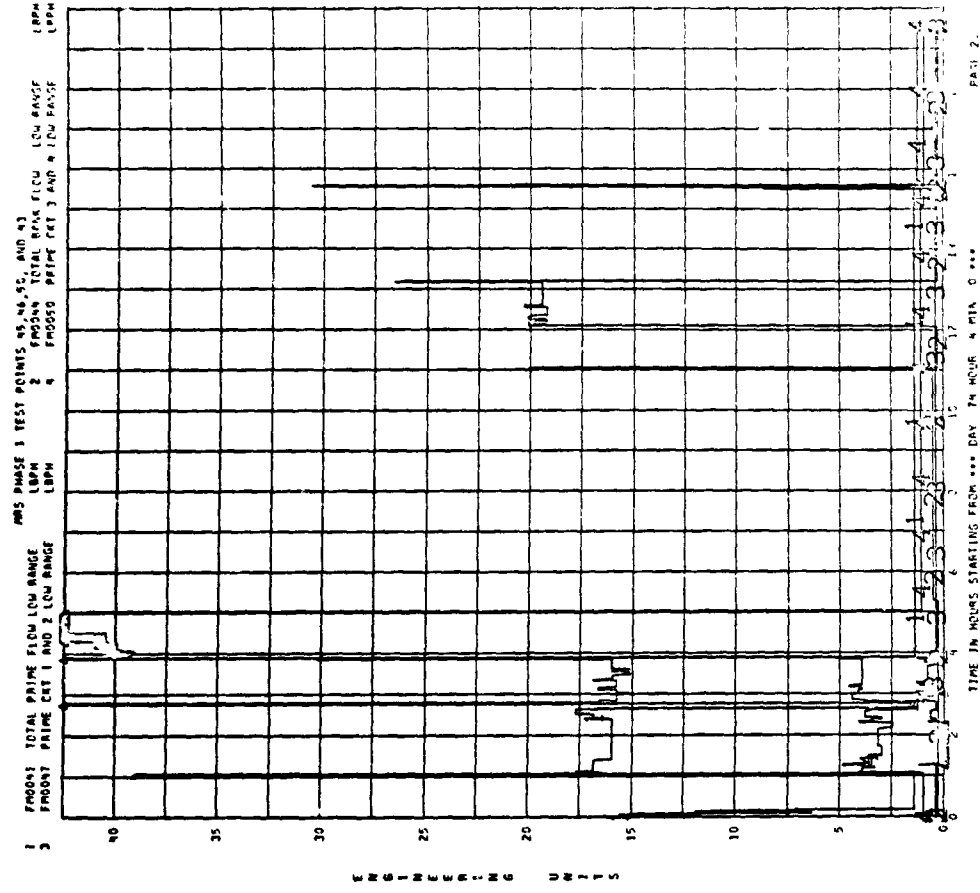
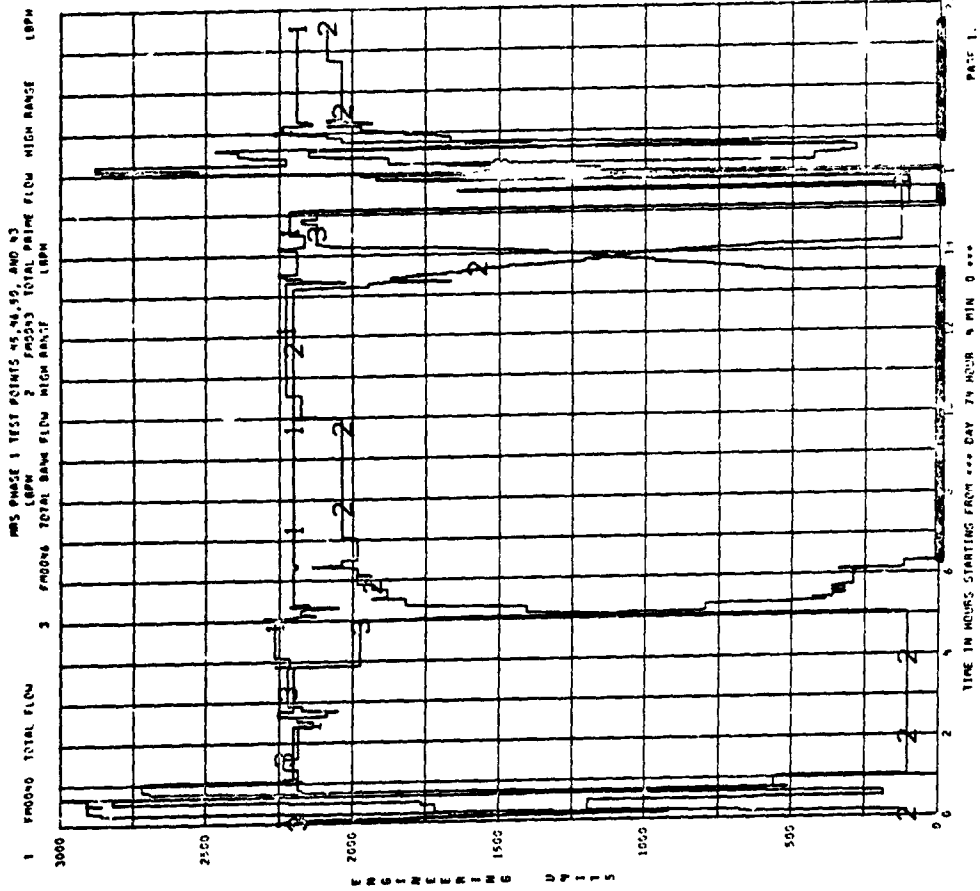
TIME IN HOURS STARTING FROM *** DAY 73 HOUR IN MIN 0 ***

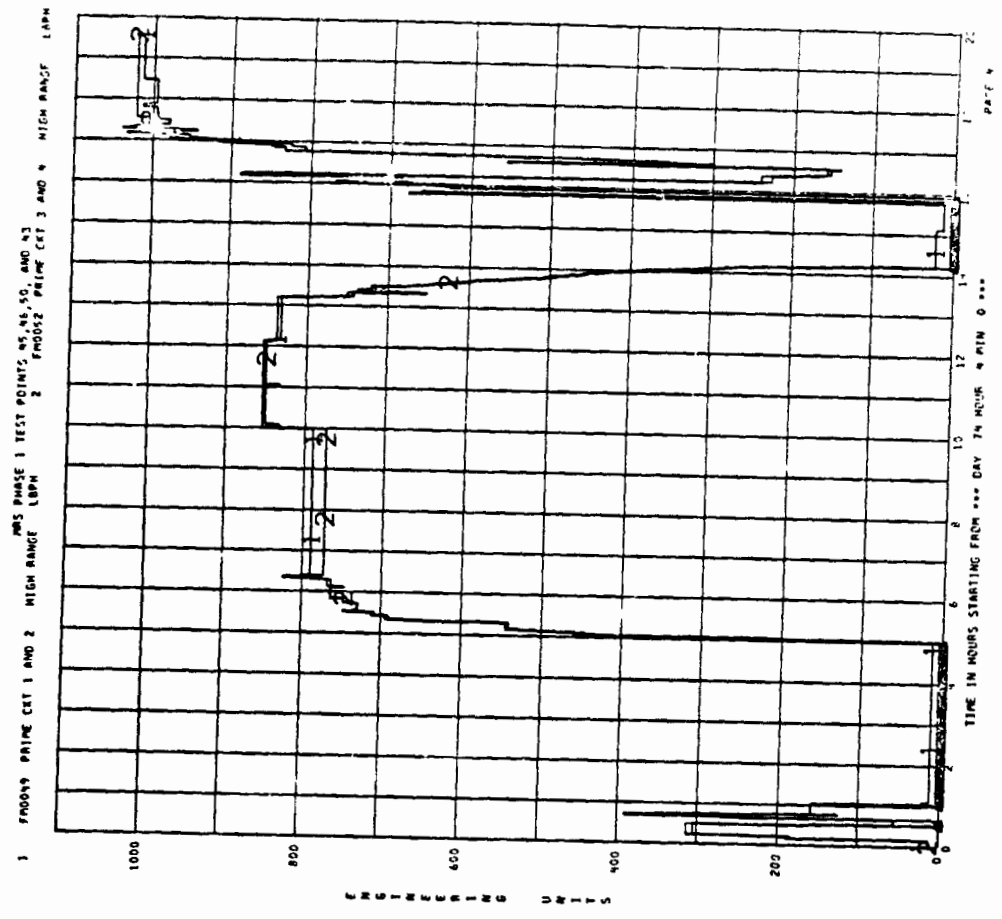
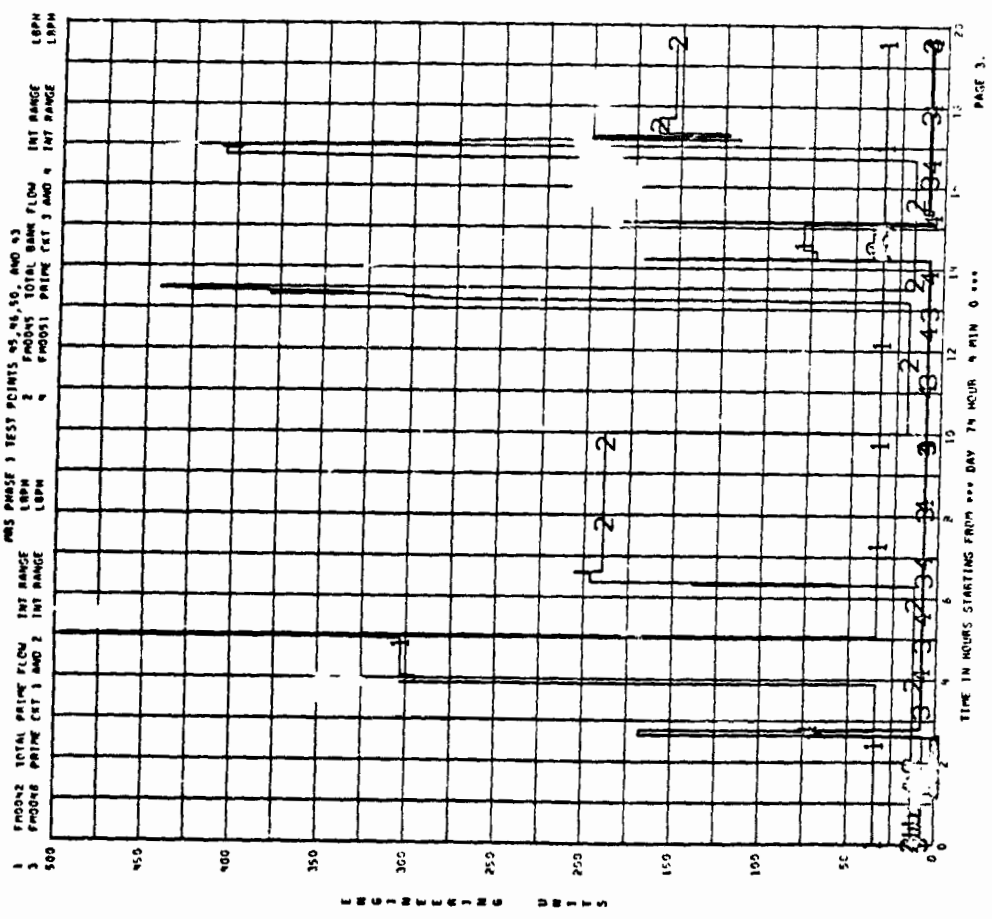
TEST GROUP G

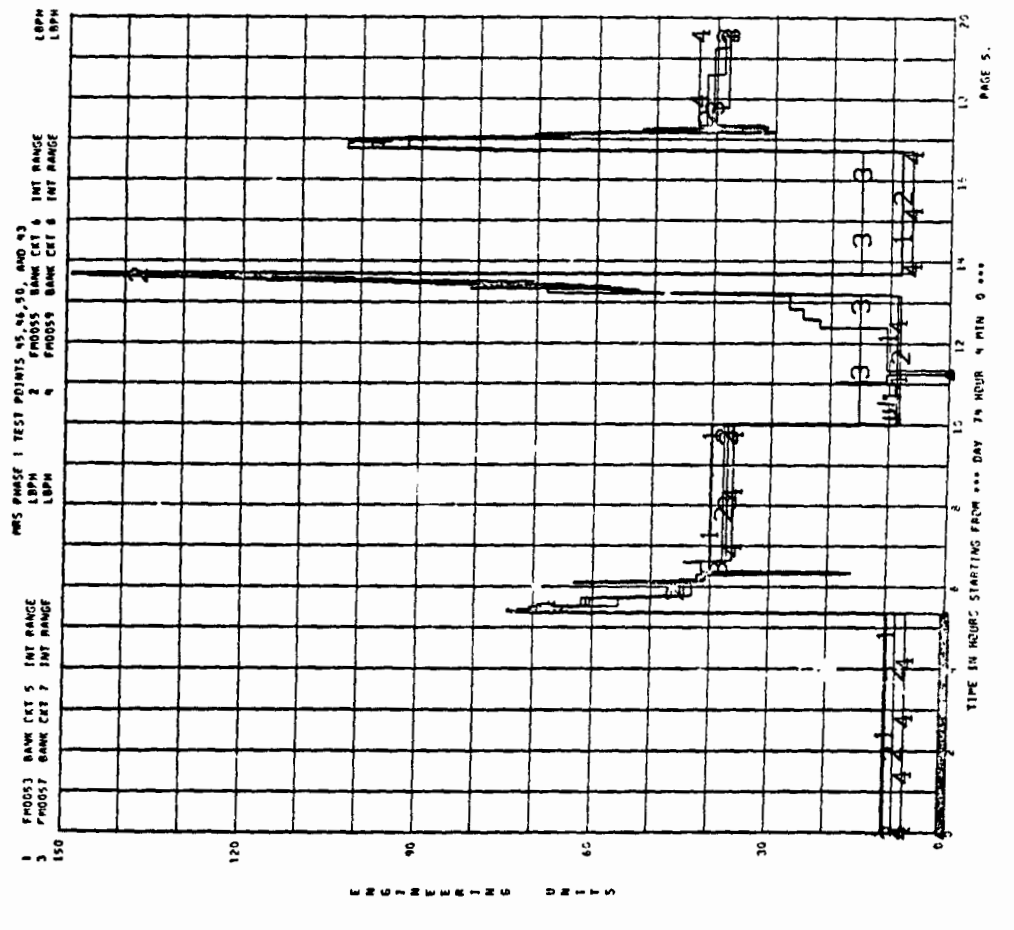
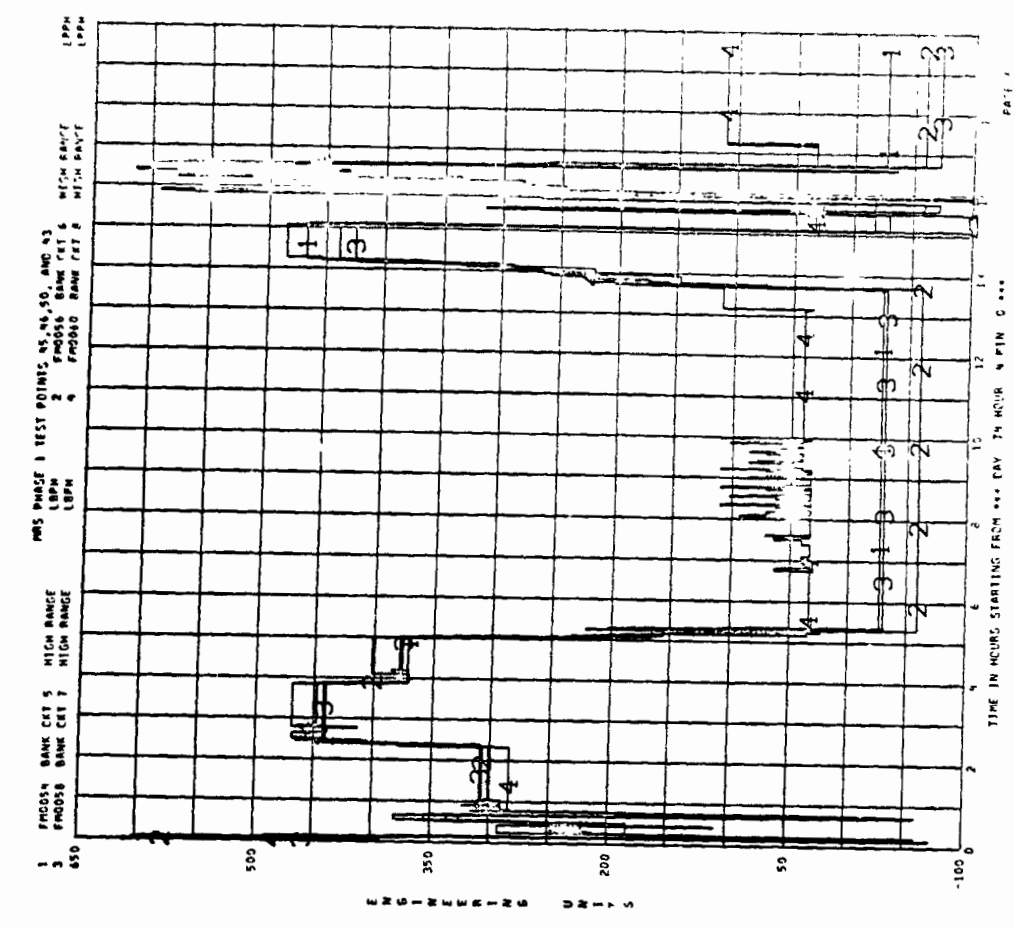
74:04:00 - 74:23:35

INCLUDES TEST POINTS

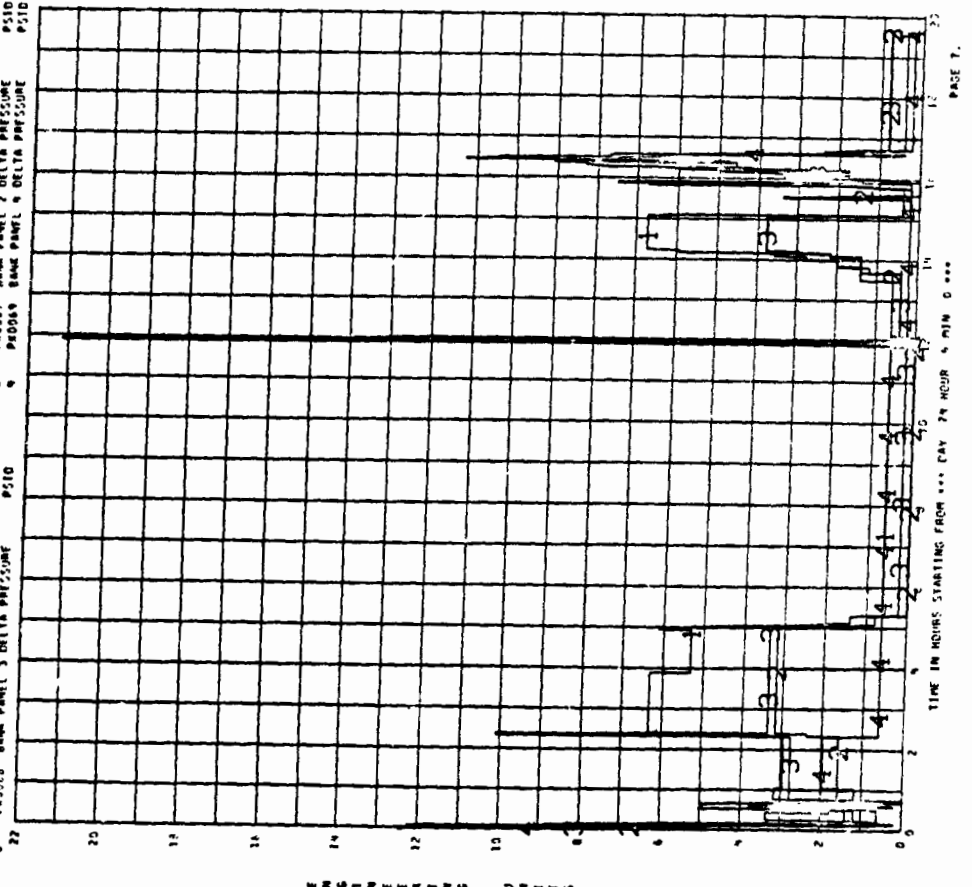
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46
50
43



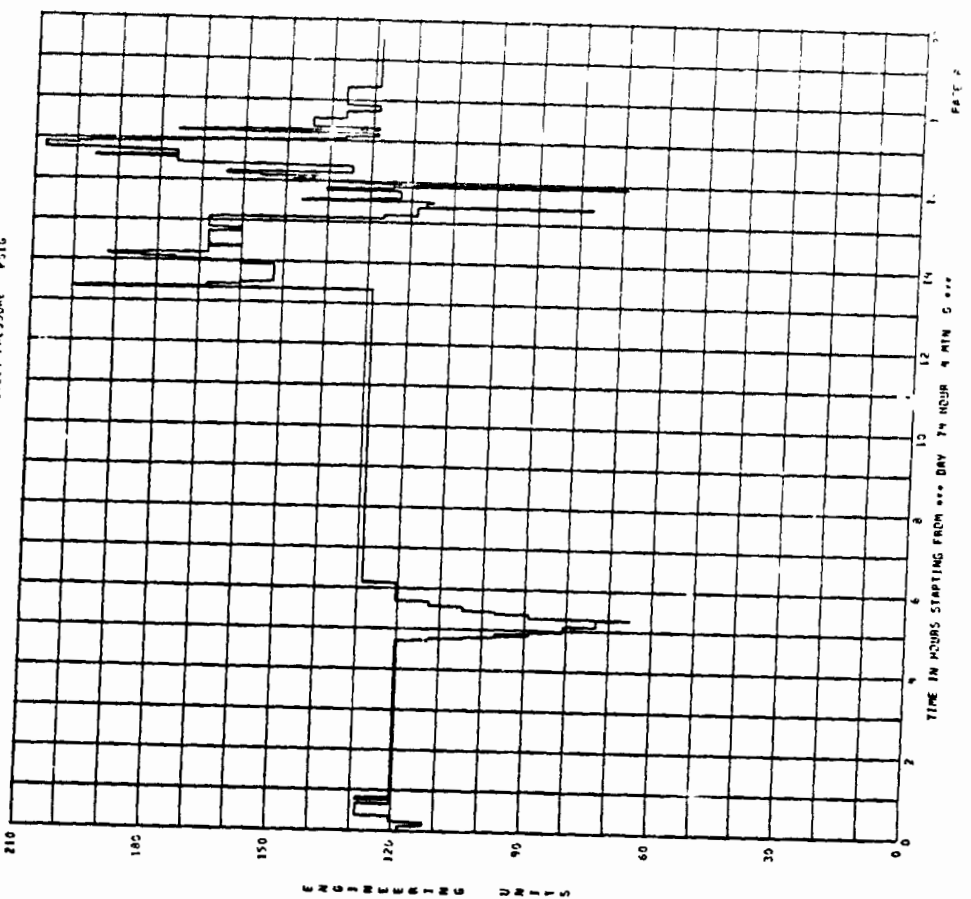




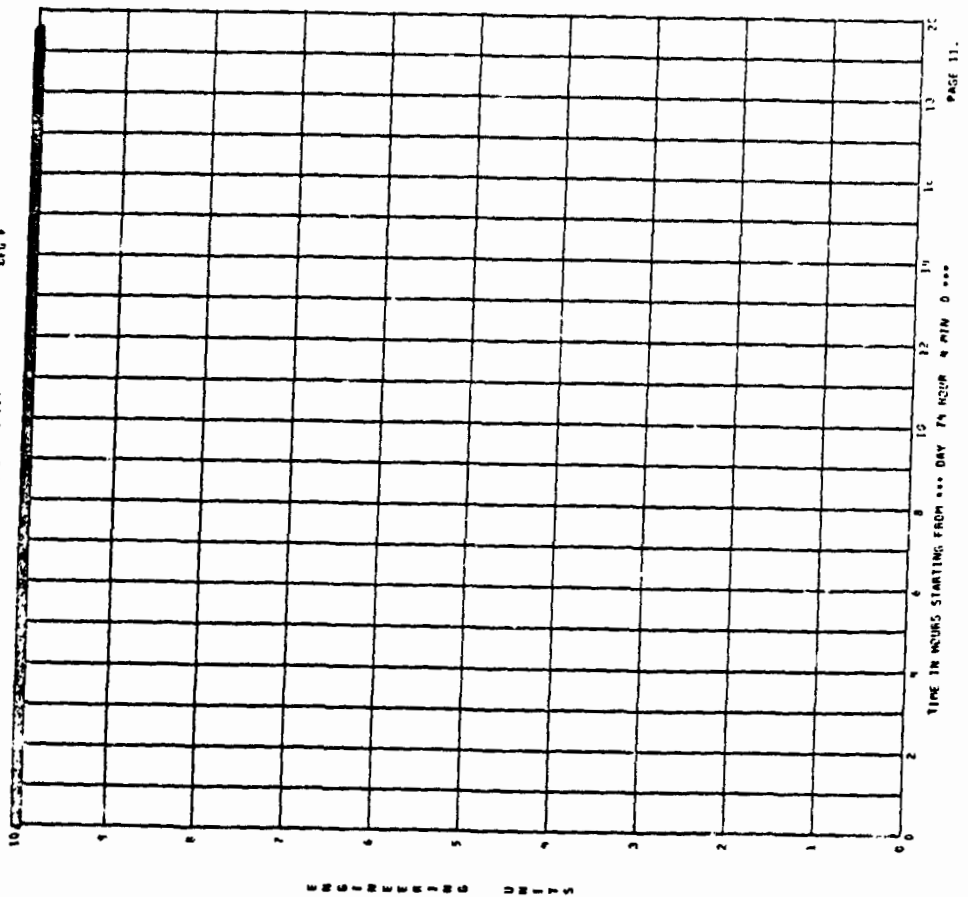
1 PREDON BANK PANEL 1 DELTA PRESSURE PSID
 2 PREDON BANK PANEL 2 DELTA PRESSURE PSID
 3 PREDON BANK PANEL 3 DELTA PRESSURE PSID
 4 PREDON BANK PANEL 4 DELTA PRESSURE PSID
 5 PREDON BANK PANEL 5 DELTA PRESSURE PSID
 6 PREDON BANK PANEL 6 DELTA PRESSURE PSID
 7 PREDON BANK PANEL 7 DELTA PRESSURE PSID
 8 PREDON BANK PANEL 8 DELTA PRESSURE PSID
 9 PREDON BANK PANEL 9 DELTA PRESSURE PSID
 10 PREDON BANK PANEL 10 DELTA PRESSURE PSID
 11 PREDON BANK PANEL 11 DELTA PRESSURE PSID
 12 PREDON BANK PANEL 12 DELTA PRESSURE PSID
 13 PREDON BANK PANEL 13 DELTA PRESSURE PSID
 14 PREDON BANK PANEL 14 DELTA PRESSURE PSID
 15 PREDON BANK PANEL 15 DELTA PRESSURE PSID
 16 PREDON BANK PANEL 16 DELTA PRESSURE PSID
 17 PREDON BANK PANEL 17 DELTA PRESSURE PSID
 18 PREDON BANK PANEL 18 DELTA PRESSURE PSID
 19 PREDON BANK PANEL 19 DELTA PRESSURE PSID
 20 PREDON BANK PANEL 20 DELTA PRESSURE PSID
 21 PREDON BANK PANEL 21 DELTA PRESSURE PSID
 22 PREDON BANK PANEL 22 DELTA PRESSURE PSID



1 PREDON PRIME TUBE MIX OUTLET PRESSURE PSIG
 2 PREDON PRIME TUBE MIX OUTLET PRESSURE PSIG
 3 PREDON PRIME TUBE MIX OUTLET PRESSURE PSIG
 4 PREDON PRIME TUBE MIX OUTLET PRESSURE PSIG
 5 PREDON PRIME TUBE MIX OUTLET PRESSURE PSIG
 6 PREDON PRIME TUBE MIX OUTLET PRESSURE PSIG
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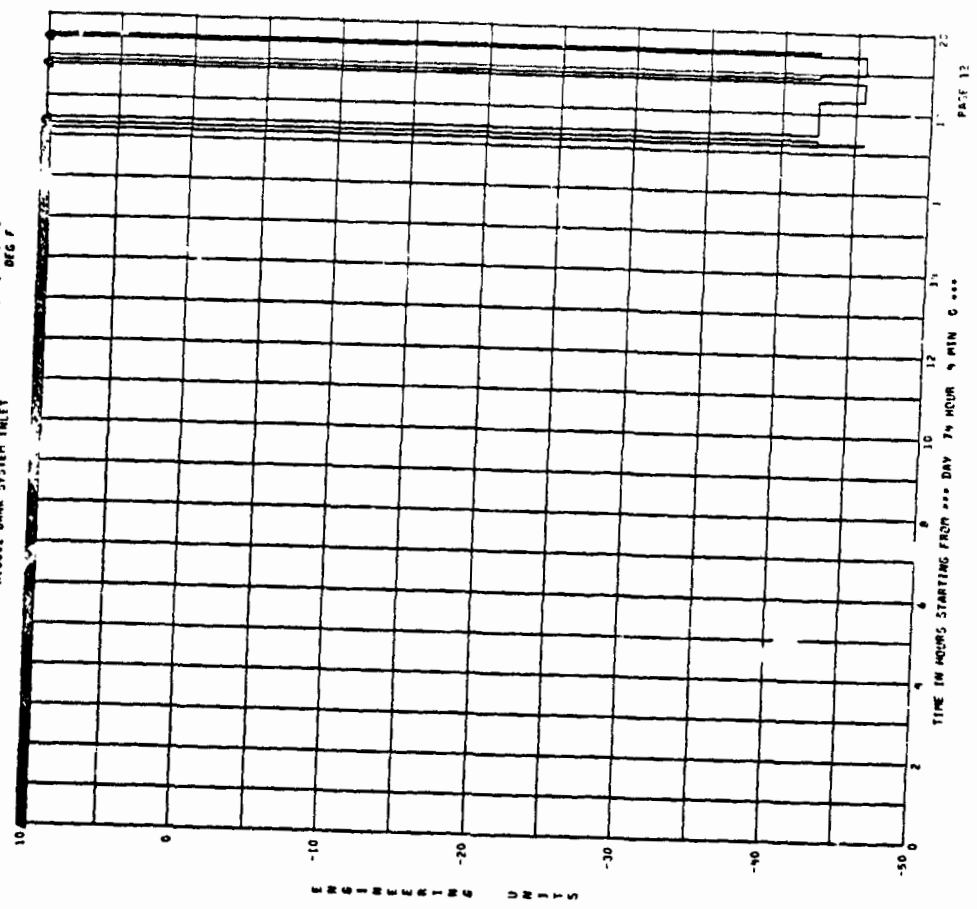


MBS PHASE I TEST POINTS 45, 46, 50, AND 53
1 A10001 MAIN SYSTEM INLET DEG P



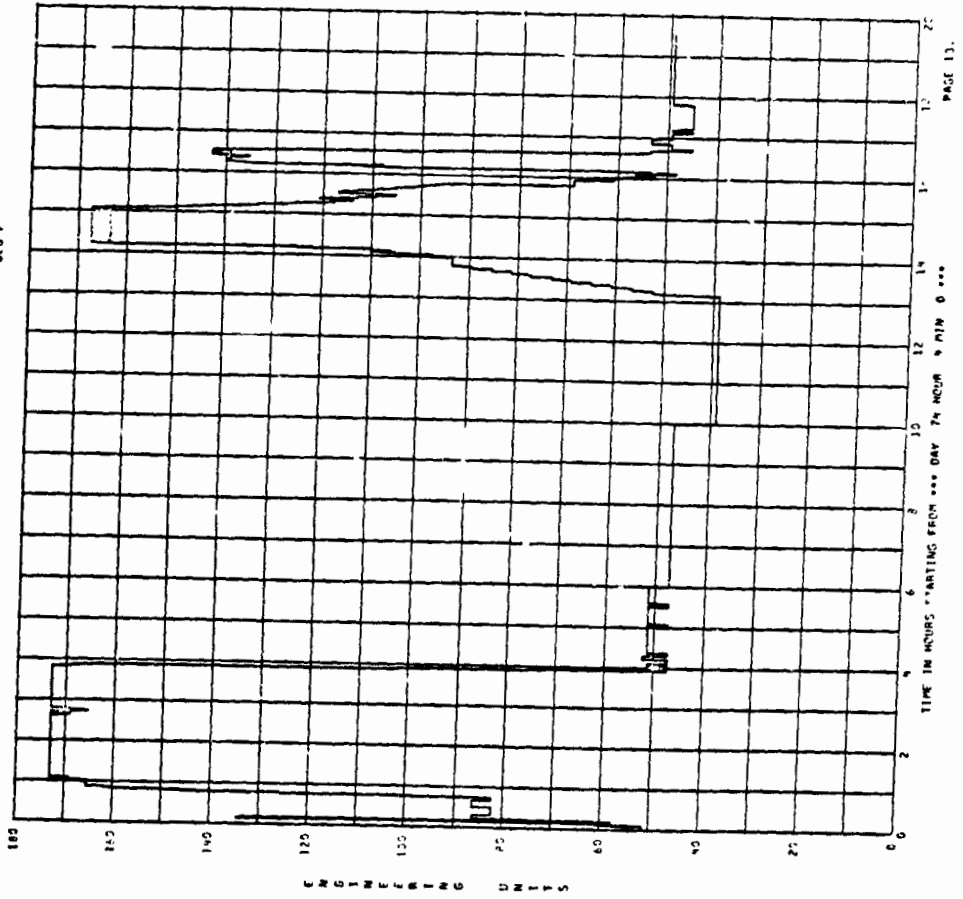
PAGE 11.

MBS PHASE I TEST POINTS 45, 46, 50, AND 53
1 A10002 BANK SYSTEM INLET DEG F

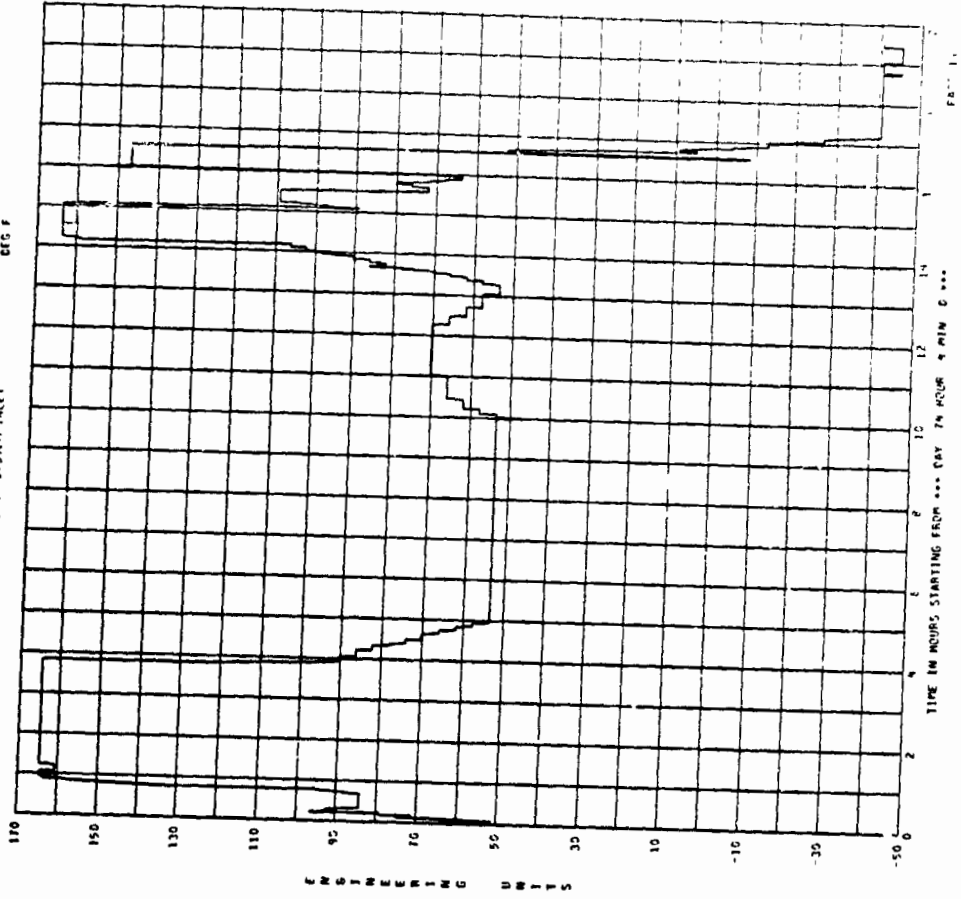


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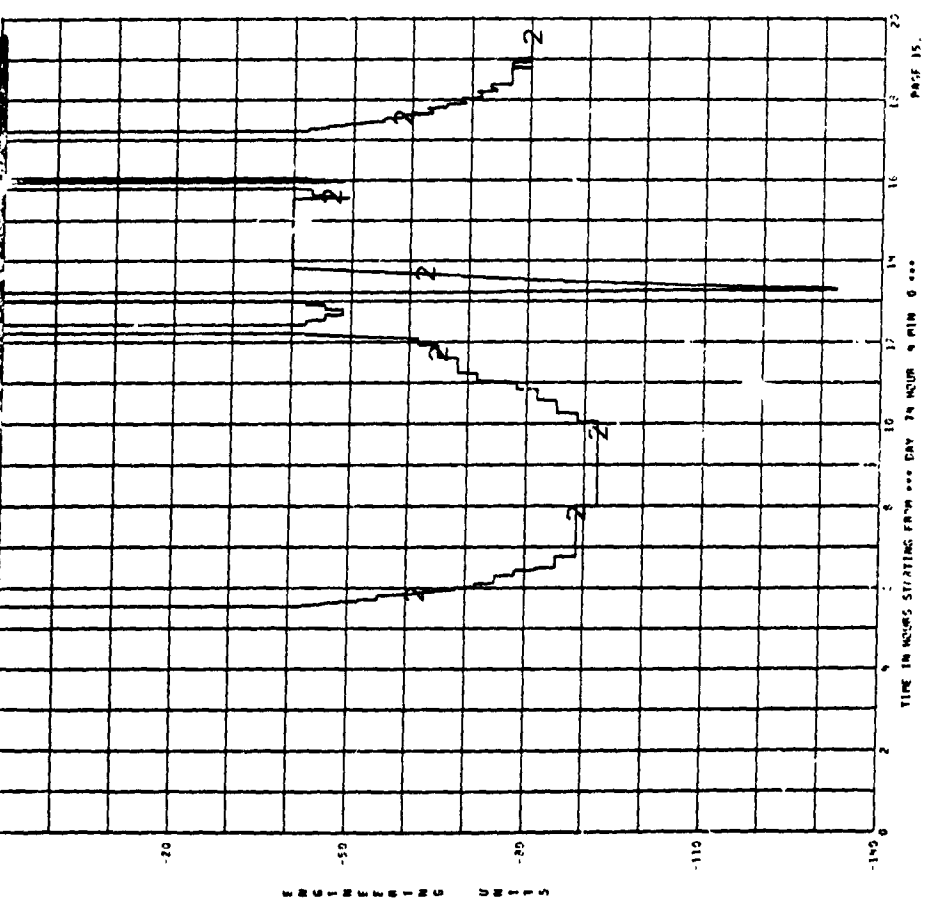
1 A30501 PRIME SYSTEM INLET
 WRS PHASE 1 TEST POINTS 45, 46, 50, AND 43
 DEG F



1 A30602 BANK SYSTEM INLET
 WRS PHASE 1 TEST POINTS 45, 46, 50, AND 43
 DEG F

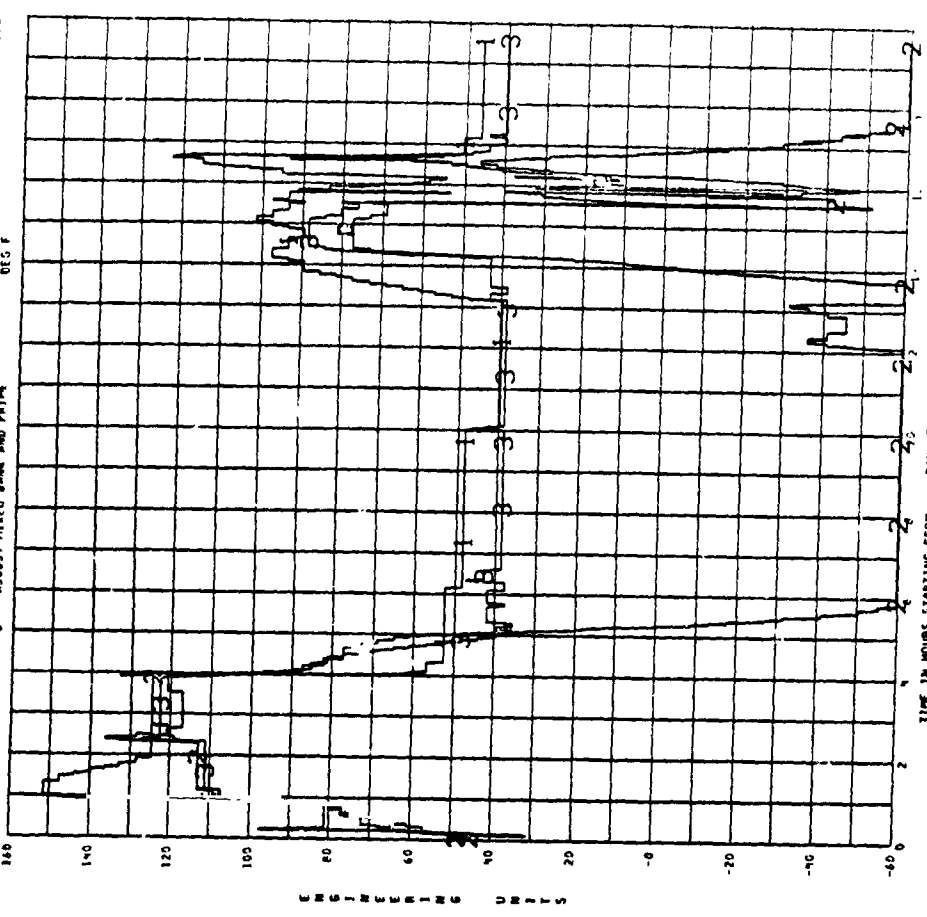


1 A1001A PRIME TUBES OUTLET MIX IN CH DEG F
 2 A1001A BANK TUBES OUTLET MIX IN CH DEG F
 3 A1001A MIXED BANK AND PRIME DEG F



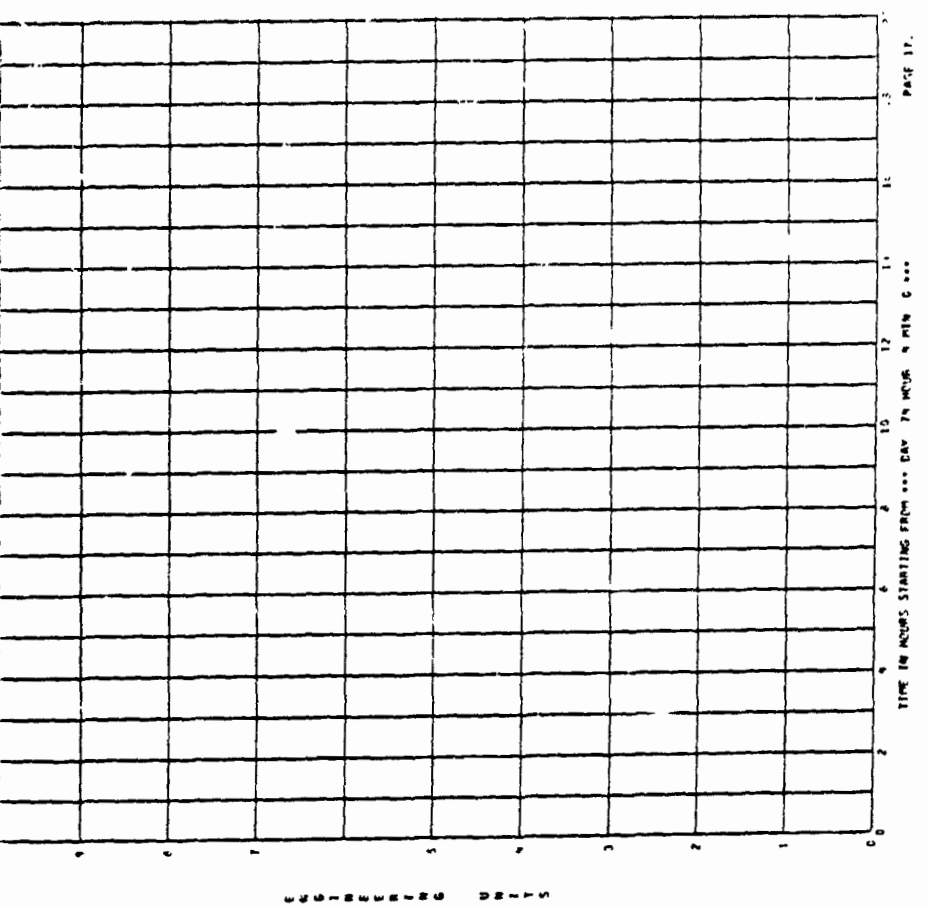
TIME IN HOURS STARTING FROM ... DAY 24 HOUR 4 MIN 0 ...

1 A1001A PRIME TUBES OUTLET MIX IN CH DEG F
 2 A1001A BANK TUBES OUTLET MIX IN CH DEG F
 3 A1001A MIXED BANK AND PRIME DEG F



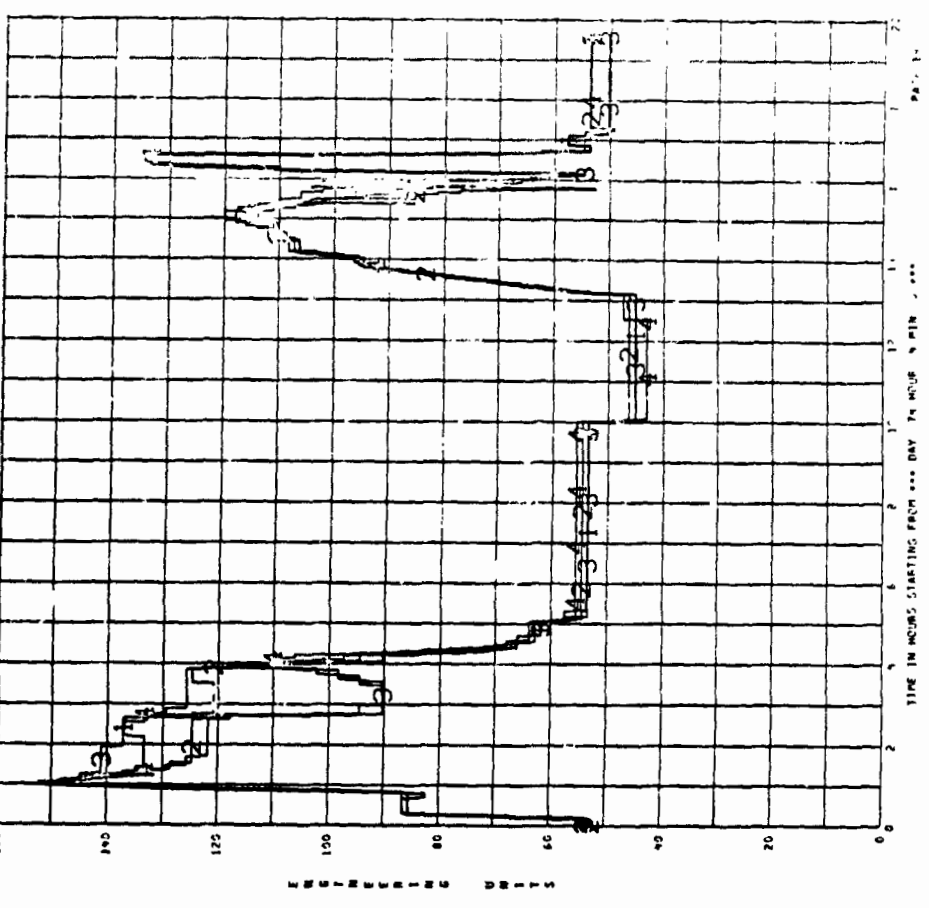
TIME IN HOURS STARTING FROM ... DAY 24 HOUR 4 MIN 0 ...

1 A1003 PANEL NO. 1 PRIME TUBE INLET DEG F
 2 A1003 PANEL NO. 5 PRIME TUBE INLET DEG F
 3 A1003 PANEL NO. 2 PRIME TUBE INLET DEG F
 4 A1003 PANEL NO. 6 PRIME TUBE INLET DEG F
 5 A1003 PANEL NO. 4 PRIME TUBE INLET DEG F

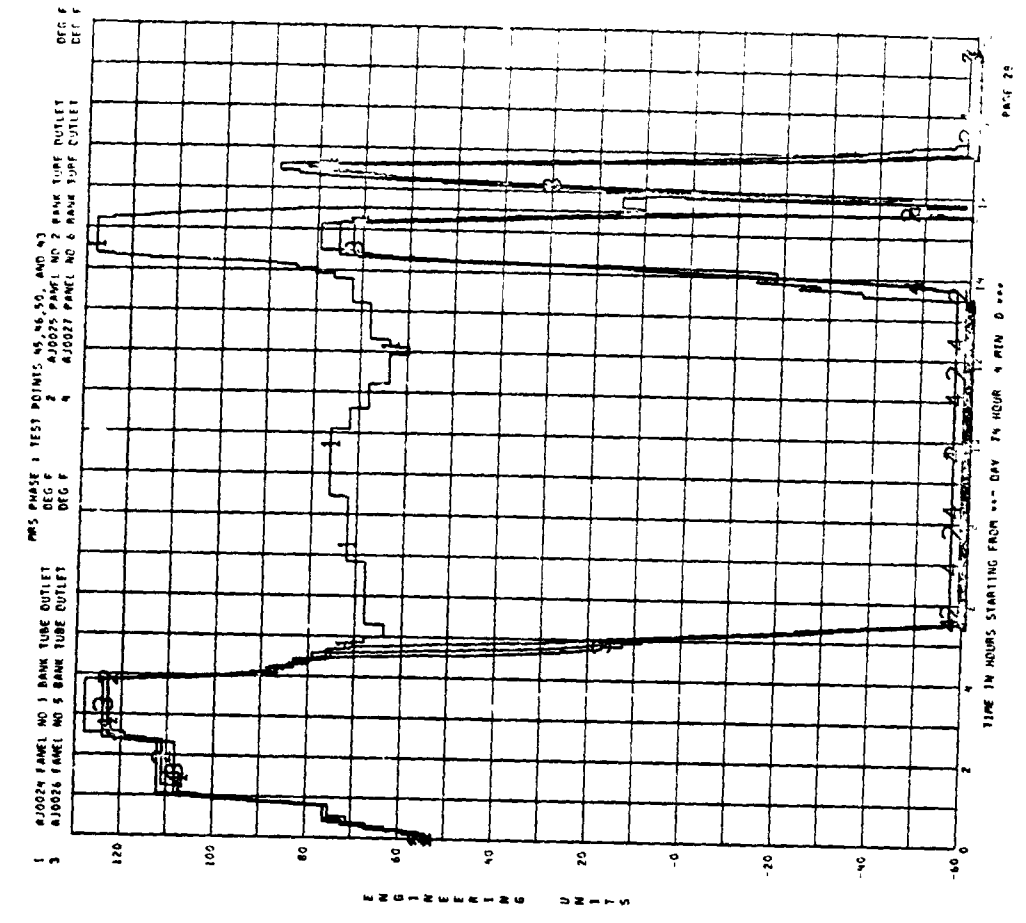
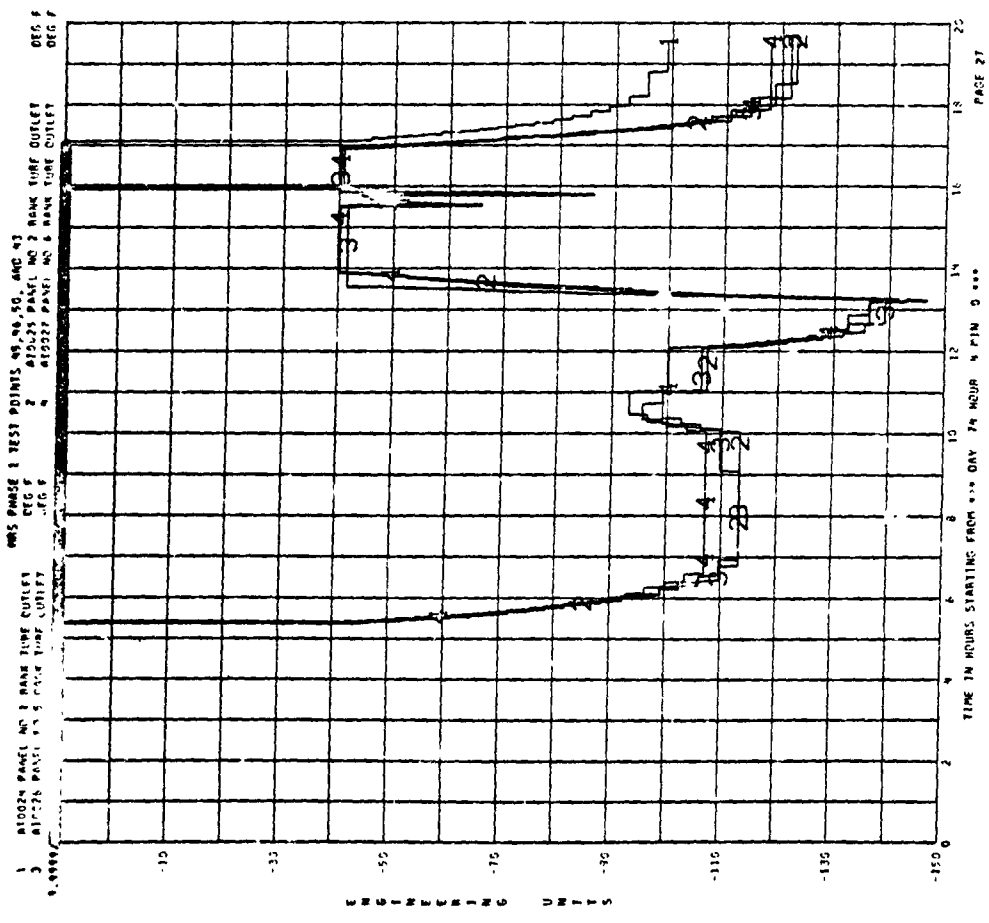


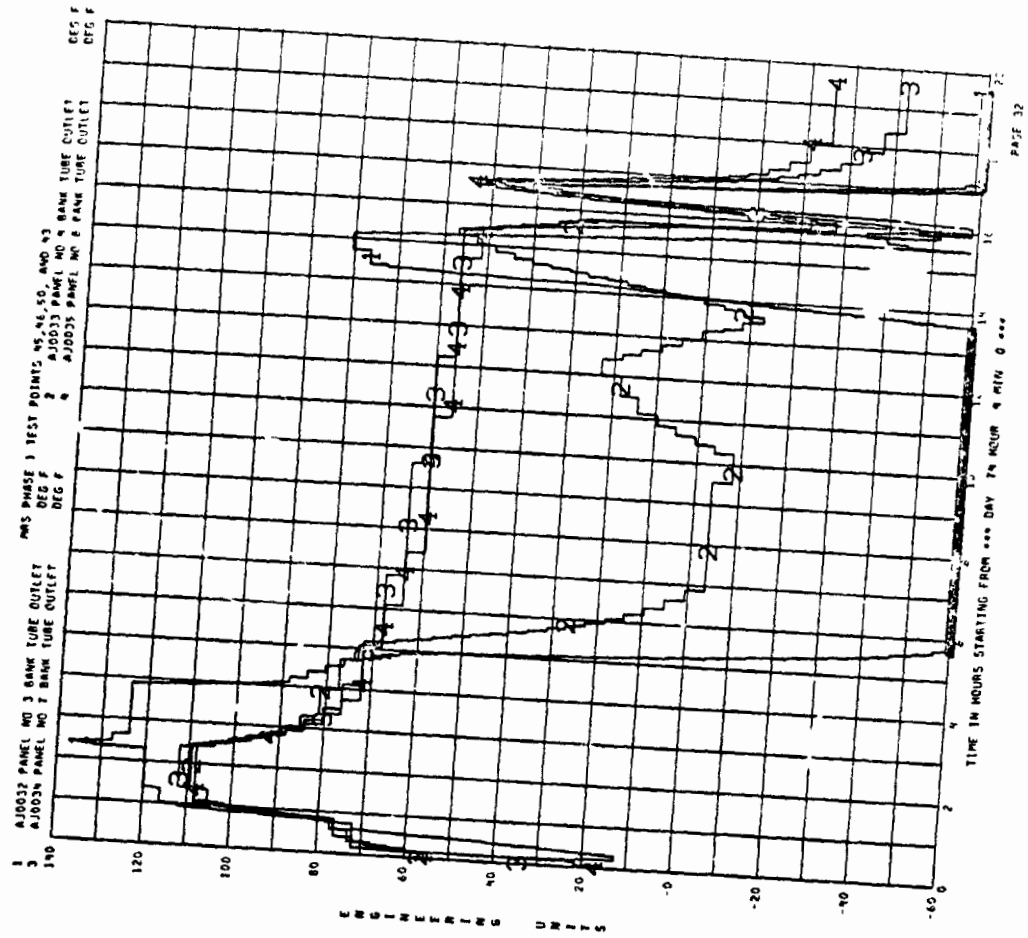
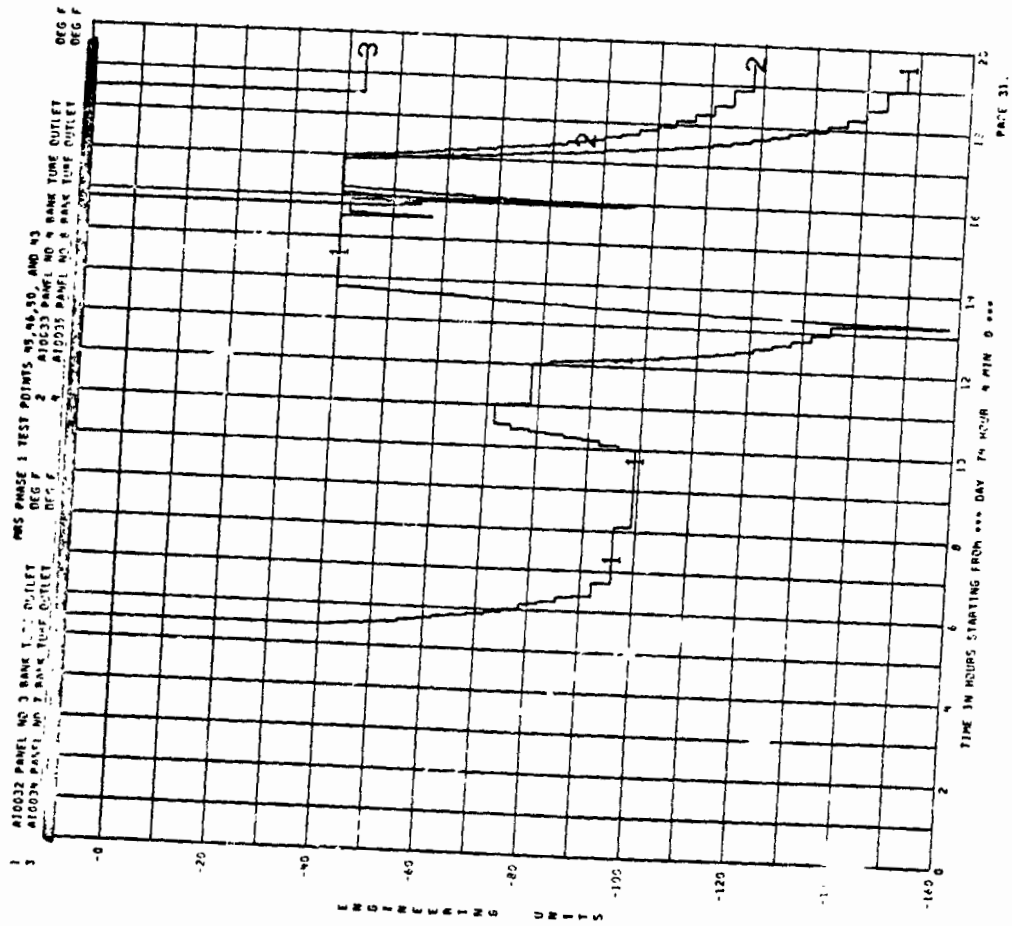
TIME IN HOURS STARTING FROM ... DAY 74 HOUR 6 MIN 0 ...
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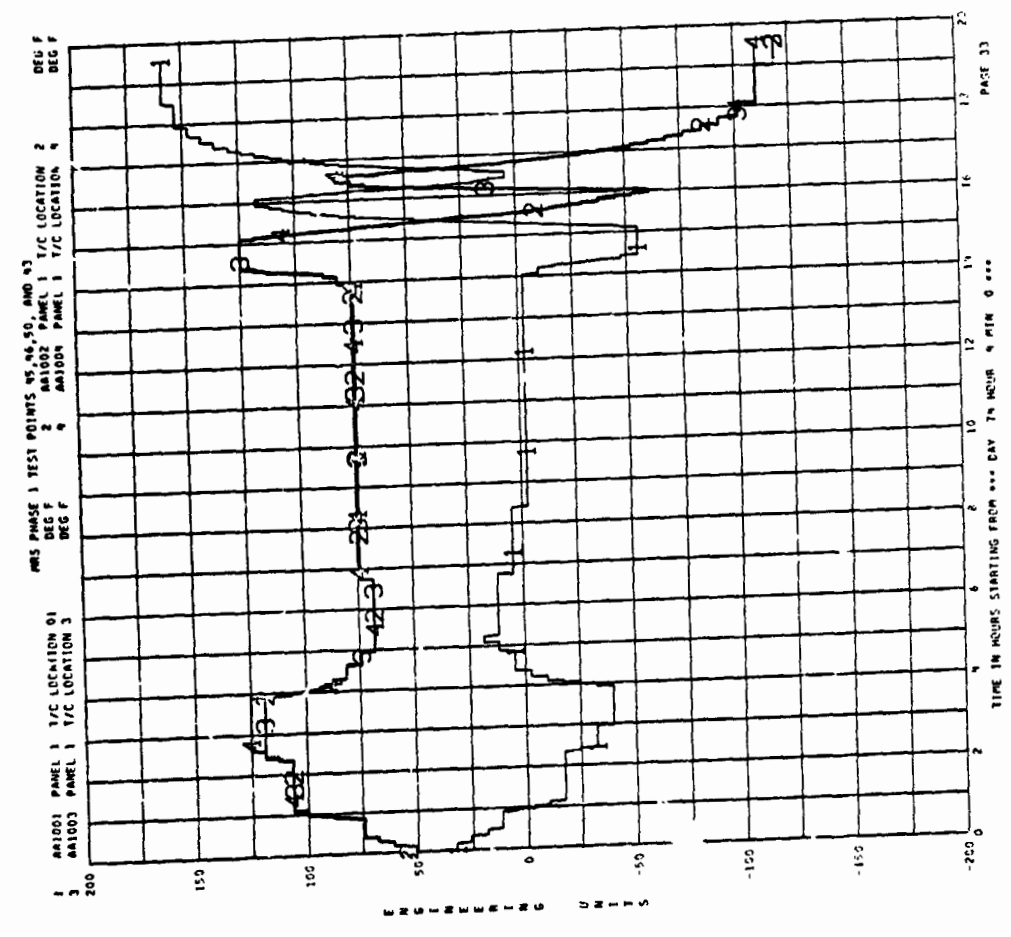
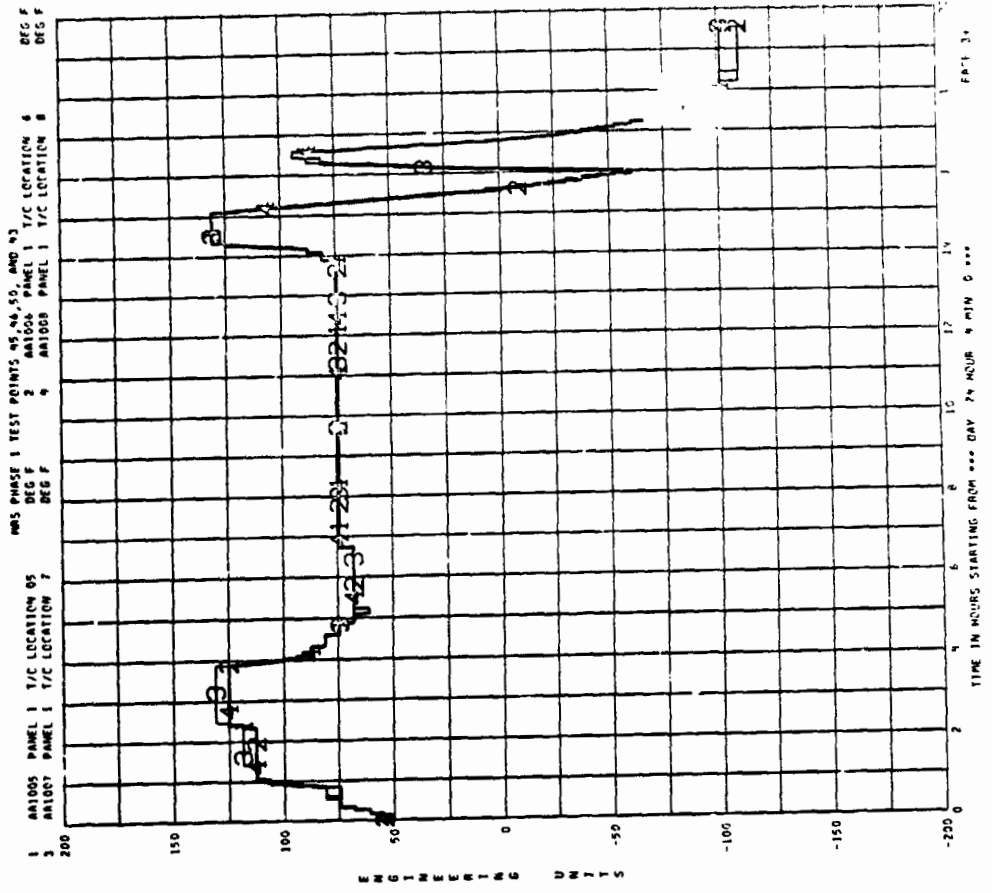
1 A1003 PANEL NO. 1 PRIME TUBE INLET DEG F
 2 A1003 PANEL NO. 5 PRIME TUBE INLET DEG F
 3 A1003 PANEL NO. 2 PRIME TUBE INLET DEG F
 4 A1003 PANEL NO. 6 PRIME TUBE INLET DEG F
 5 A1003 PANEL NO. 4 PRIME TUBE INLET DEG F

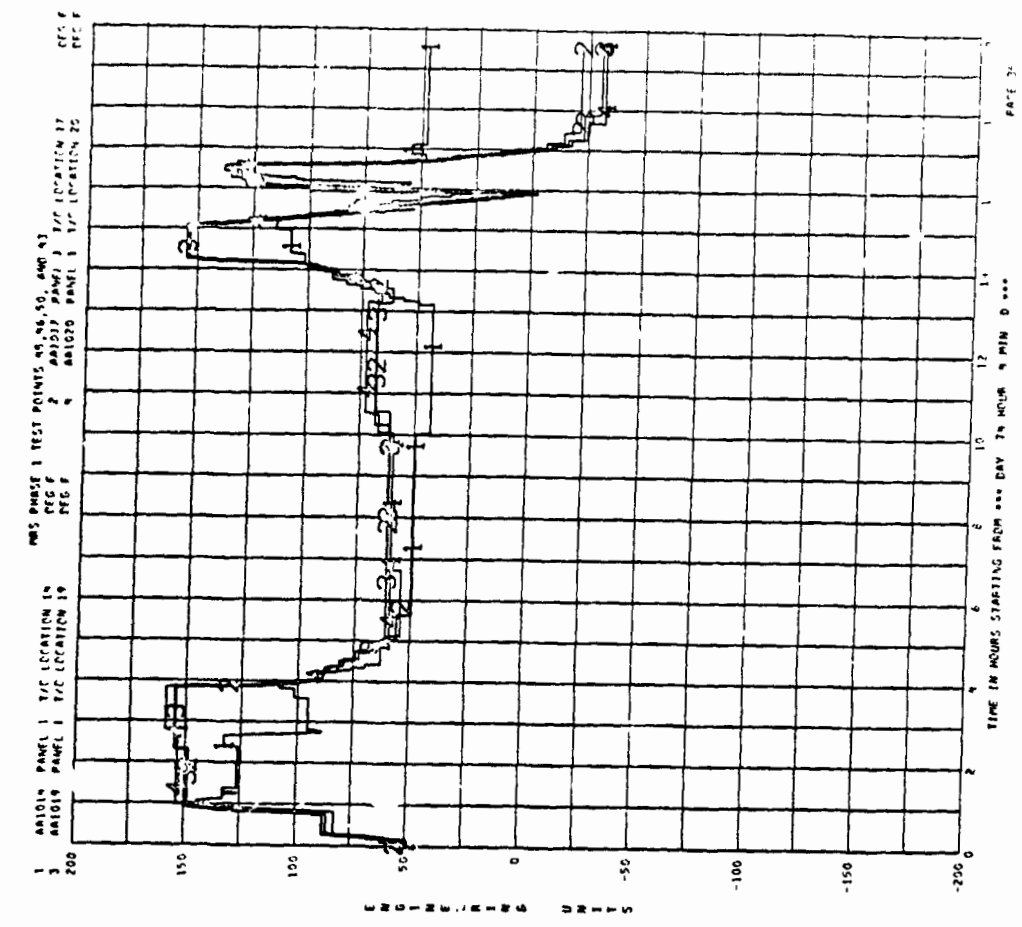
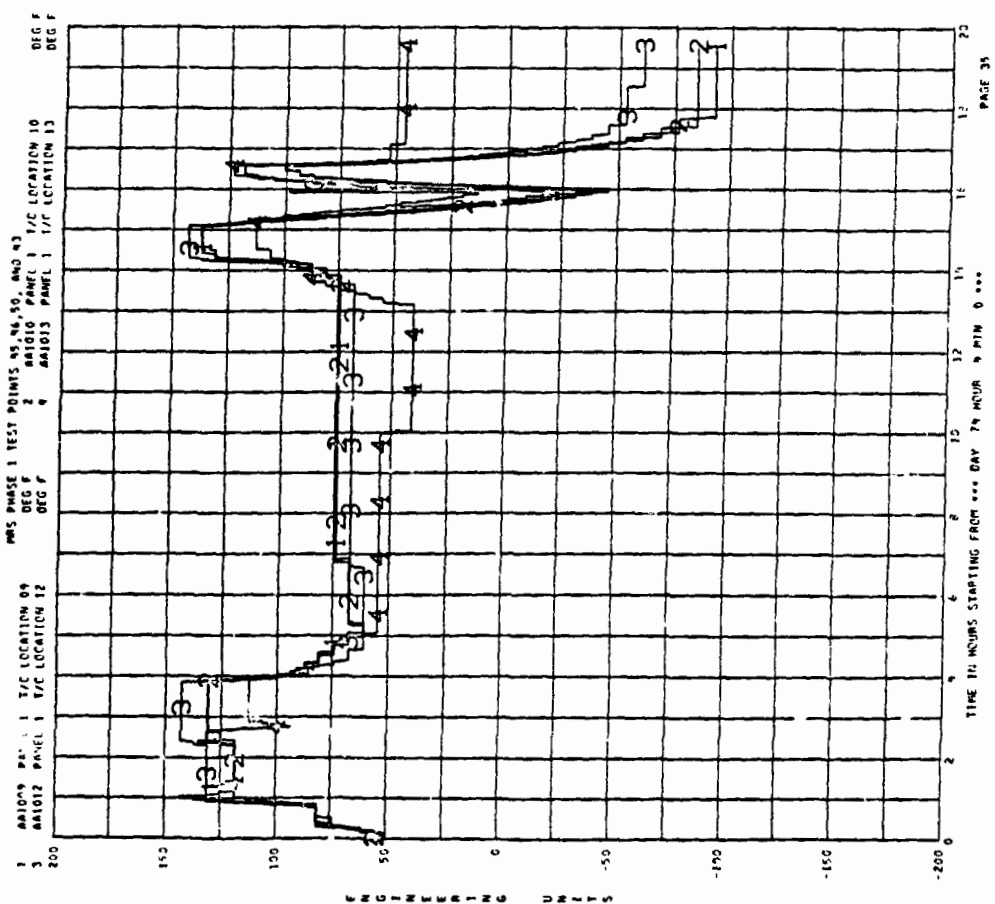


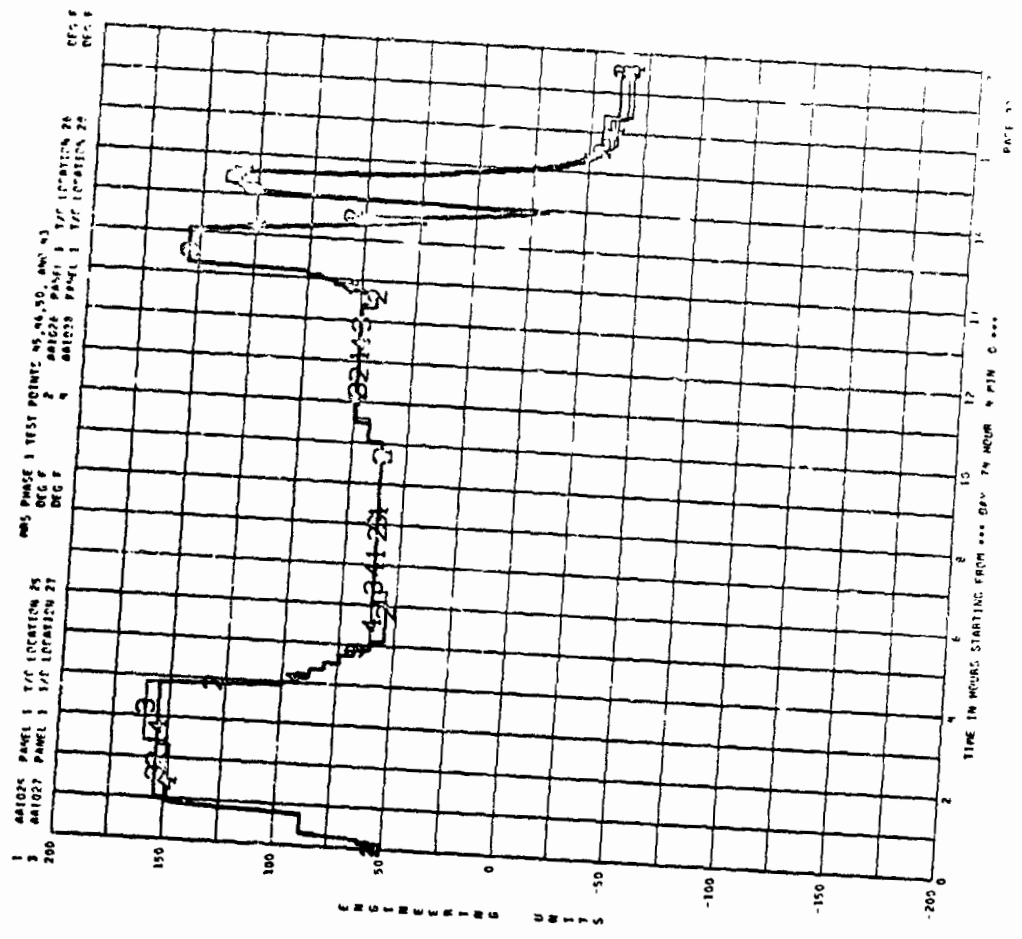
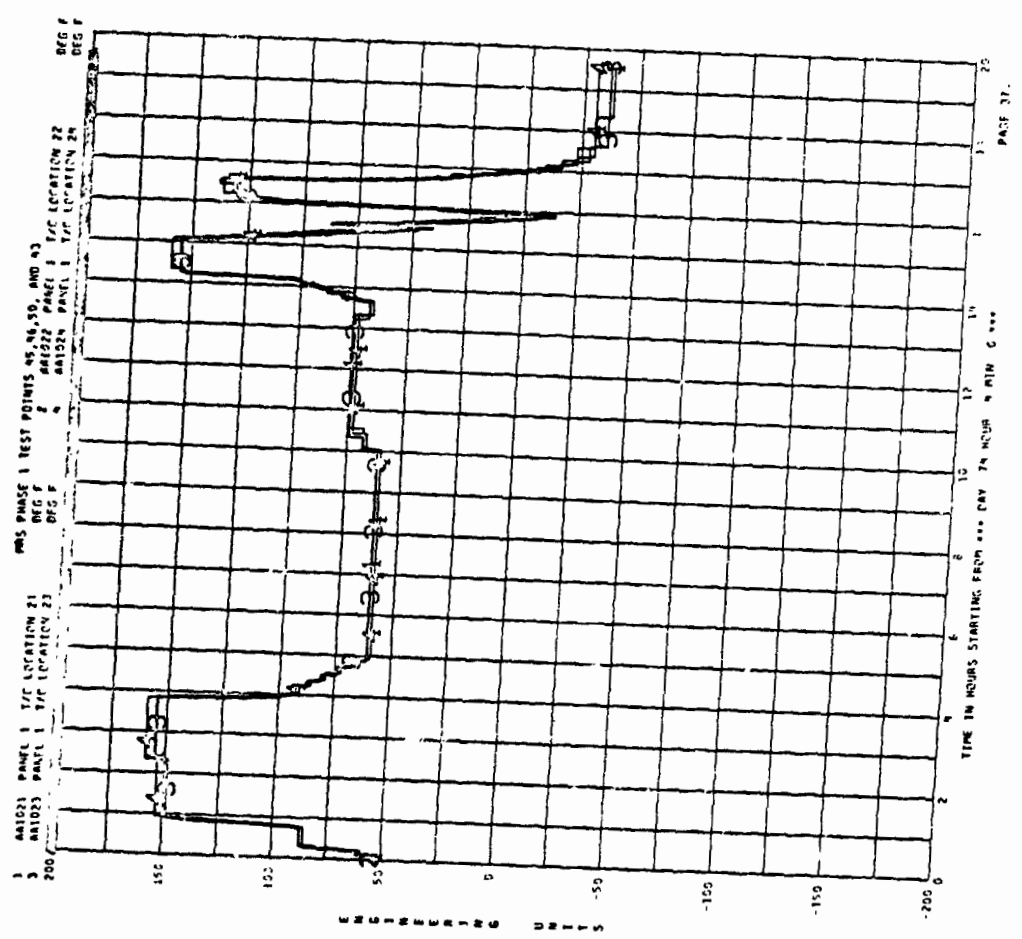
TIME IN HOURS STARTING FROM ... DAY 74 HOUR 9 MIN 0 ...
 PAGE 17



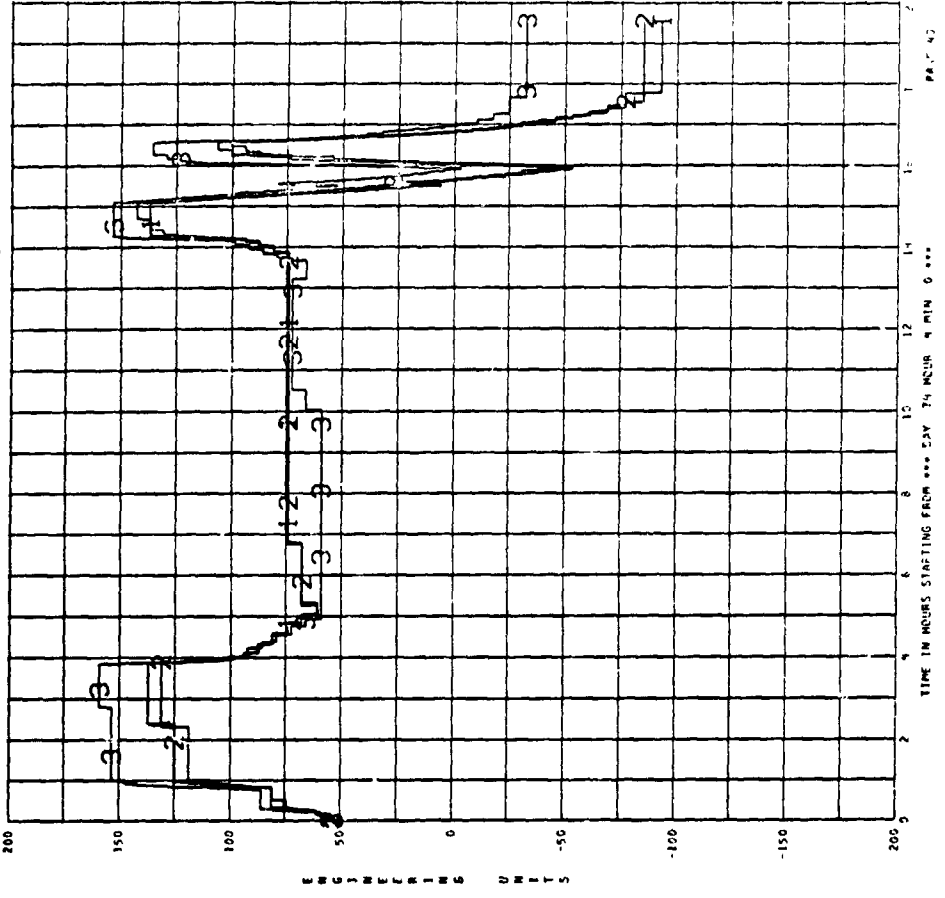




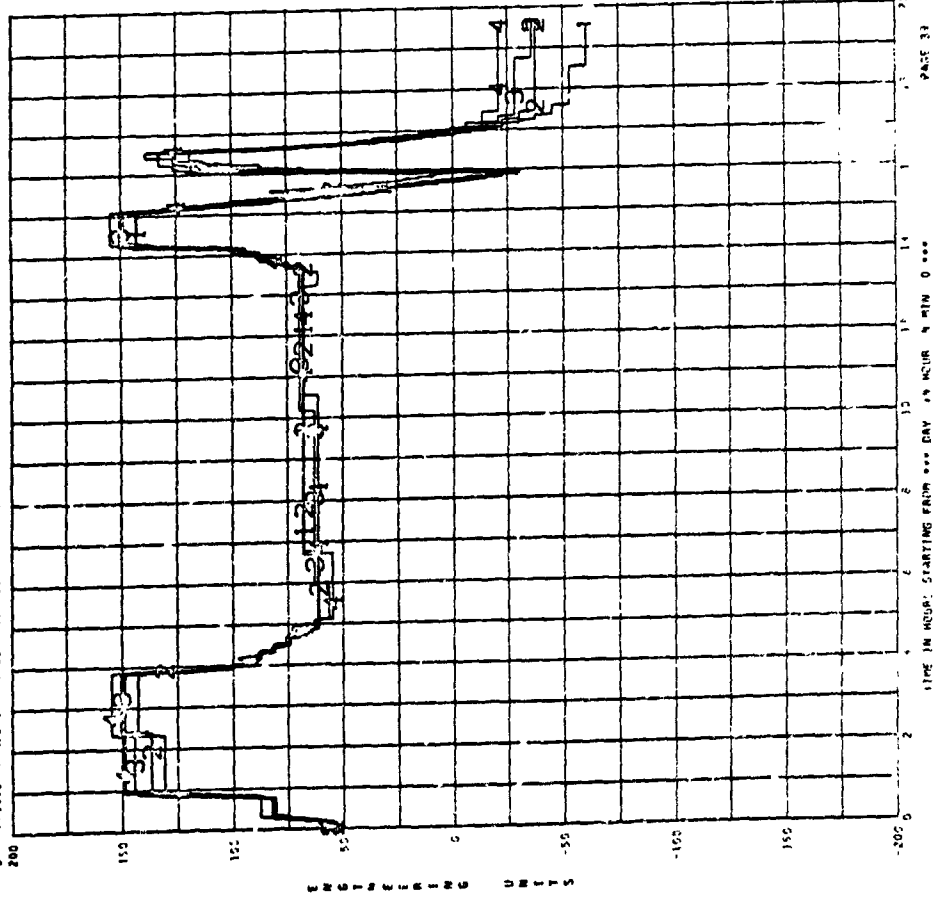




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 3 ARI020 PANEL 1 T/C LOCATION 20



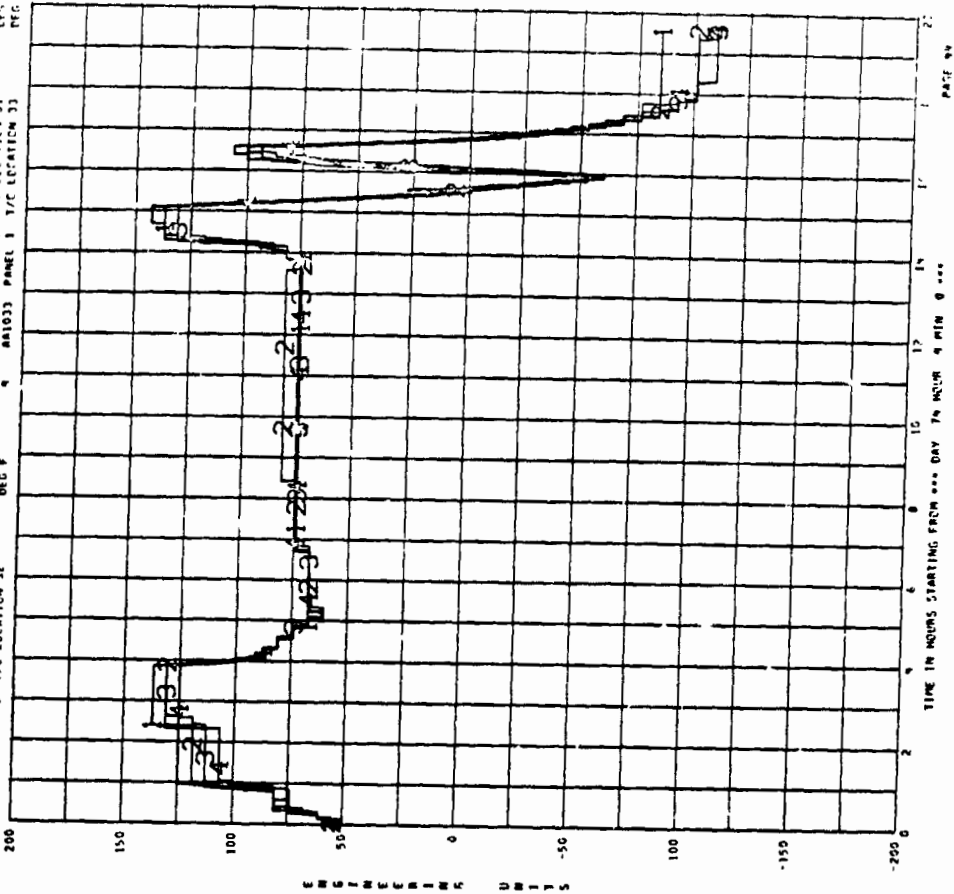
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 3 ARI016 PANEL 1 T/C LOCATION 16



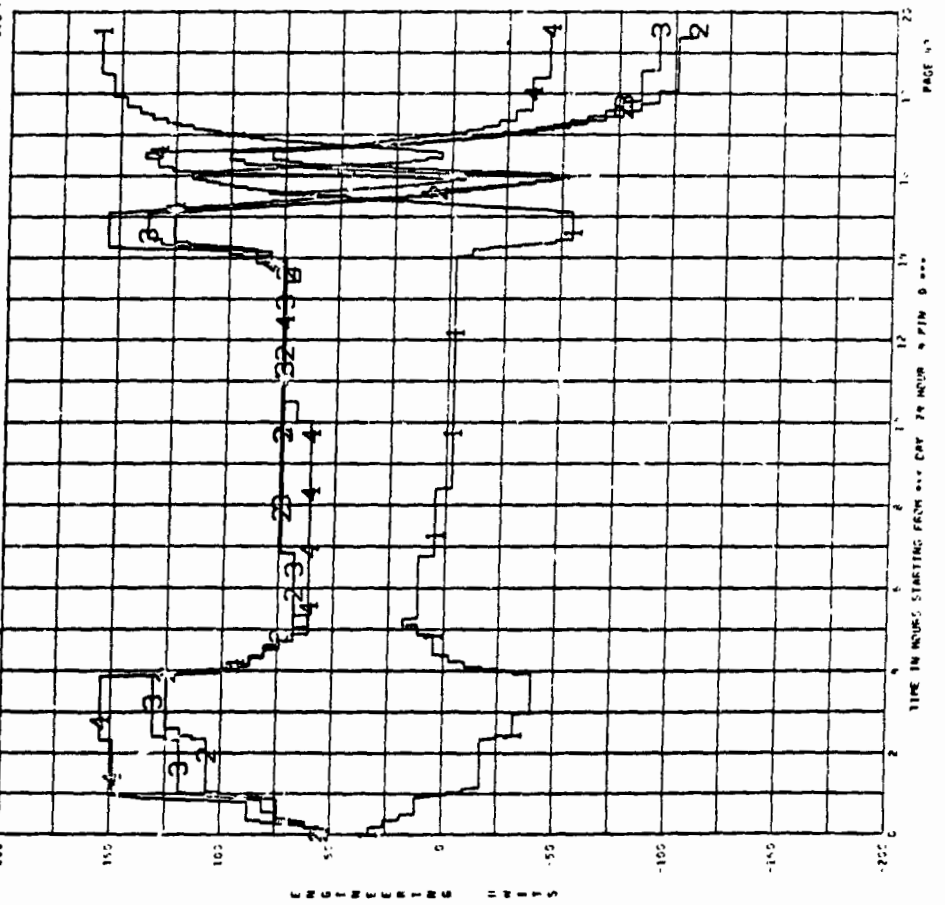
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 3 ARI026 PANEL 1 T/C LOCATION 26



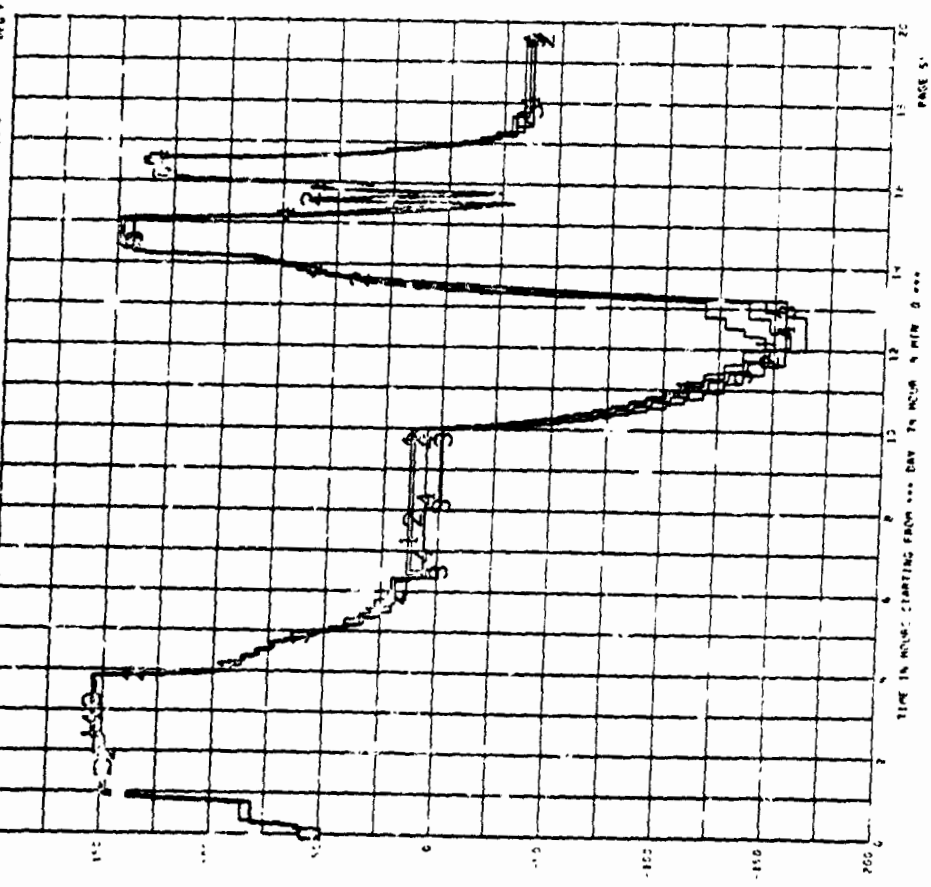
1 AR1030 PANEL 1 T/C LOCATION 30
 2 AR1032 PANEL 1 T/C LOCATION 32
 3 AR1031 PANEL 1 T/C LOCATION 31
 4 AR1033 PANEL 1 T/C LOCATION 33
 PMS PHASE 1 TEST POINTS NS 46, 50, AND 43
 DEC F
 DEC F
 DEC F
 DEC F



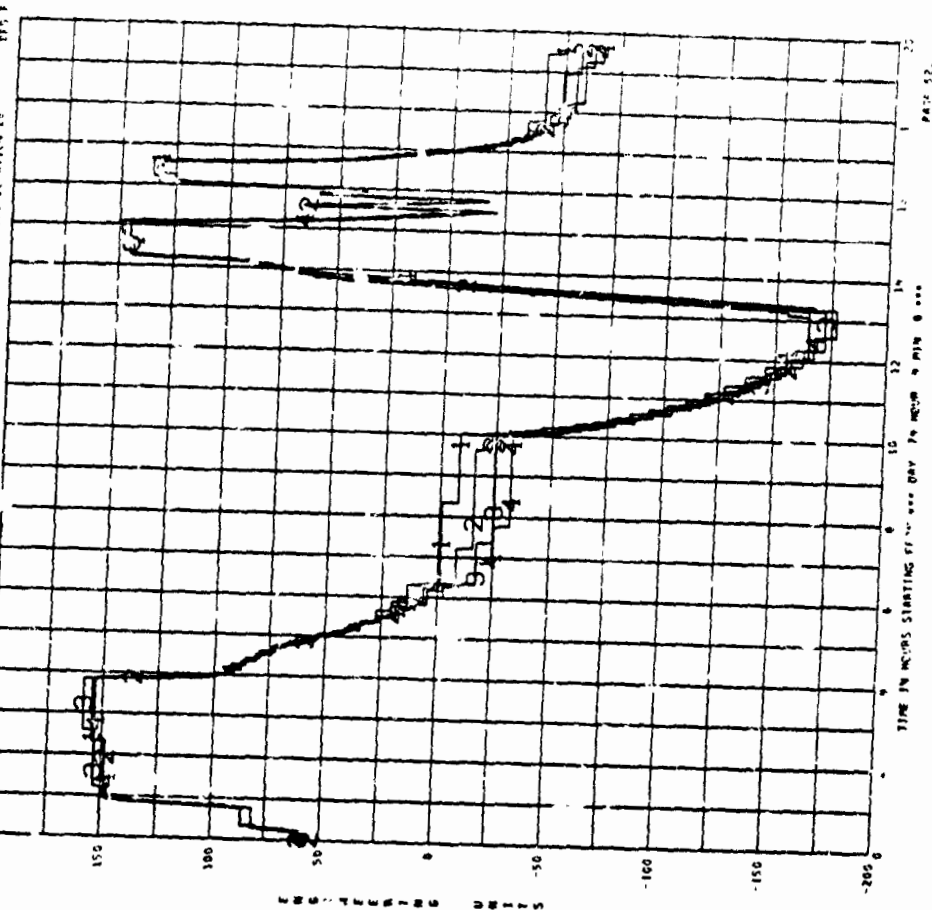
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 2 AR1028 PANEL 1 T/C LOCATION 28
 3 AR1029 PANEL 1 T/C LOCATION 29
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 DEC F
 DEC F
 DEC F
 DEC F

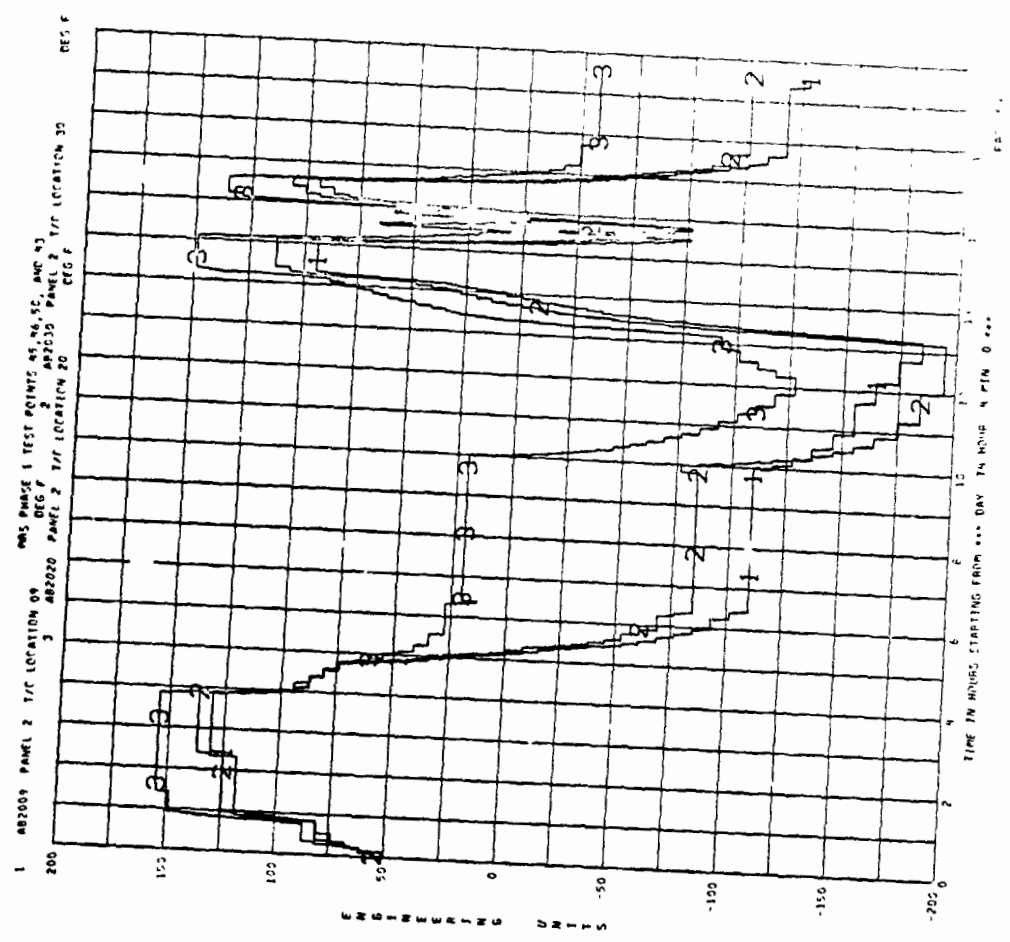
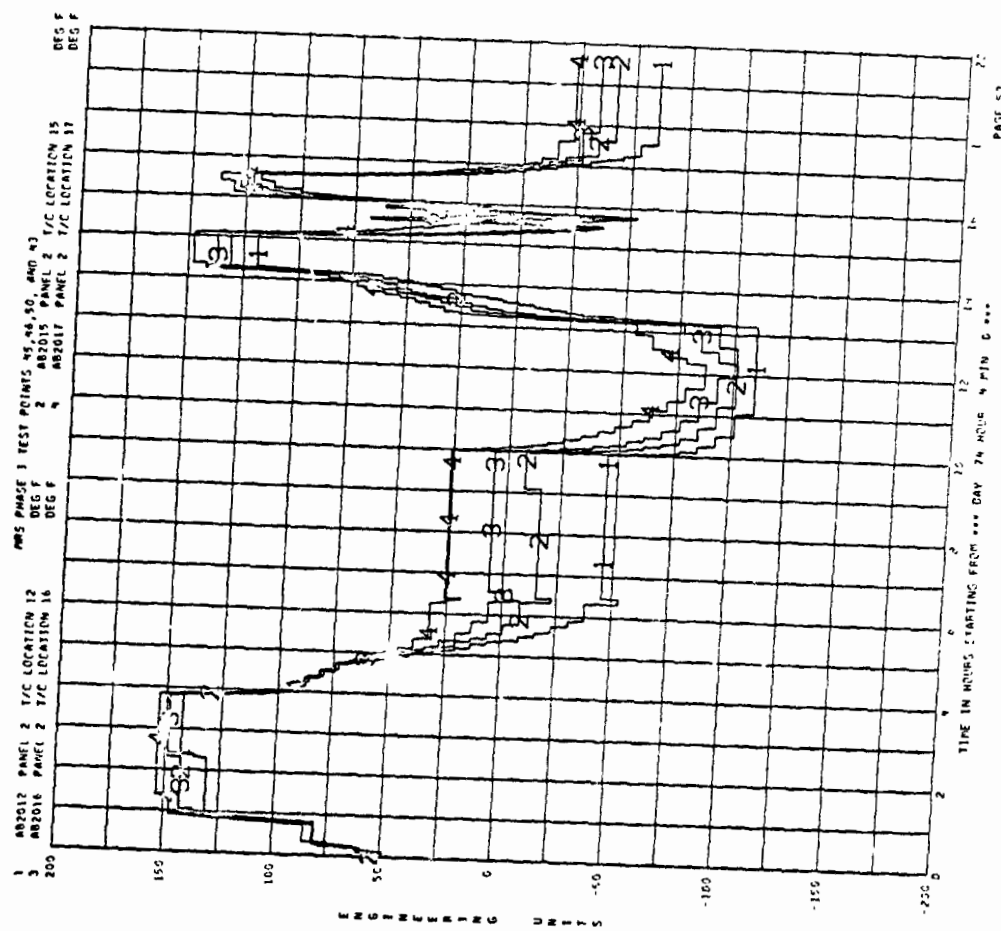


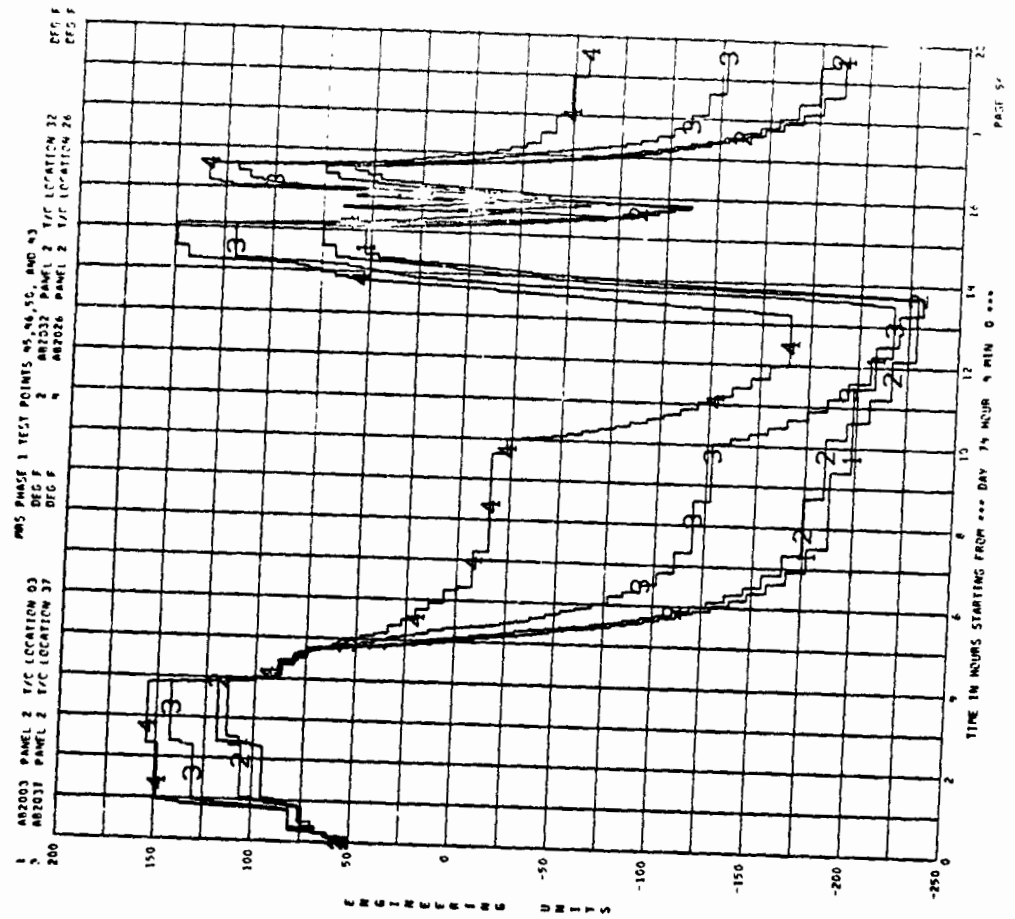
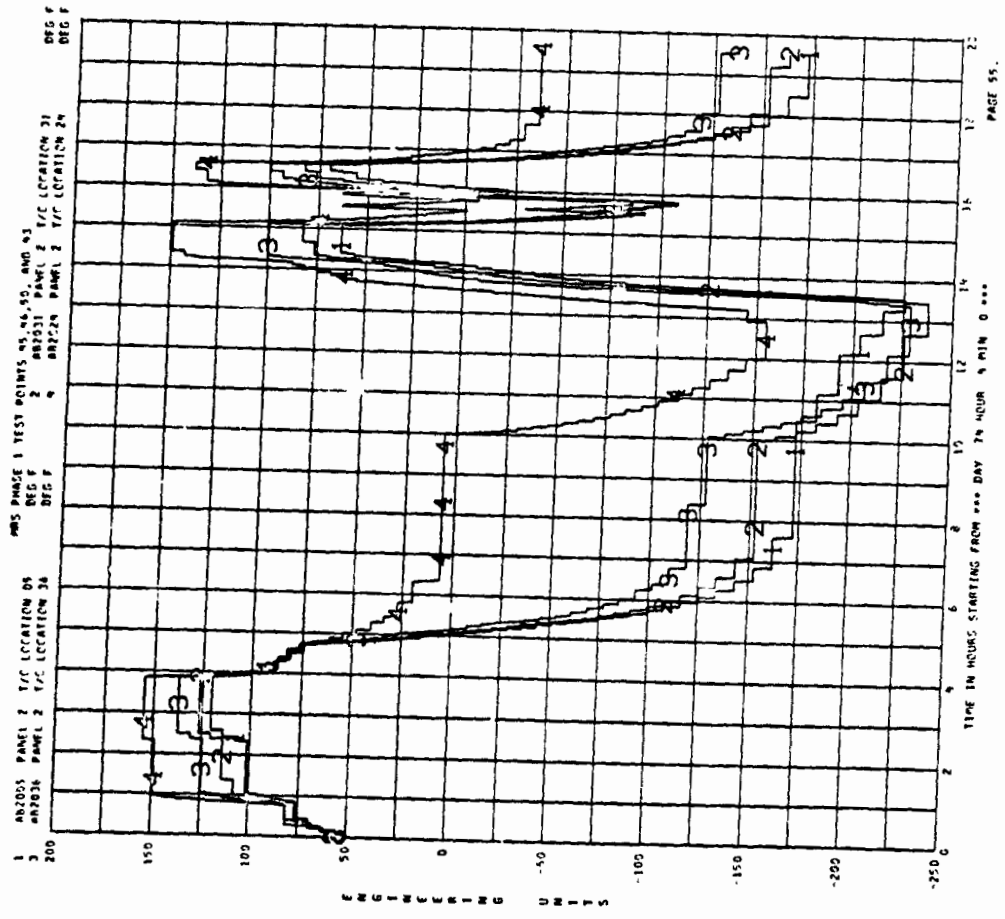
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 3. 00223 PANEL 2 T/C LOCATION 23
 4. 00224 PANEL 2 T/C LOCATION 24
 5. 00225 PANEL 2 T/C LOCATION 25
 6. 00226 PANEL 2 T/C LOCATION 26
 7. 00227 PANEL 2 T/C LOCATION 27
 8. 00228 PANEL 2 T/C LOCATION 28
 9. 00229 PANEL 2 T/C LOCATION 29
 10. 00230 PANEL 2 T/C LOCATION 30

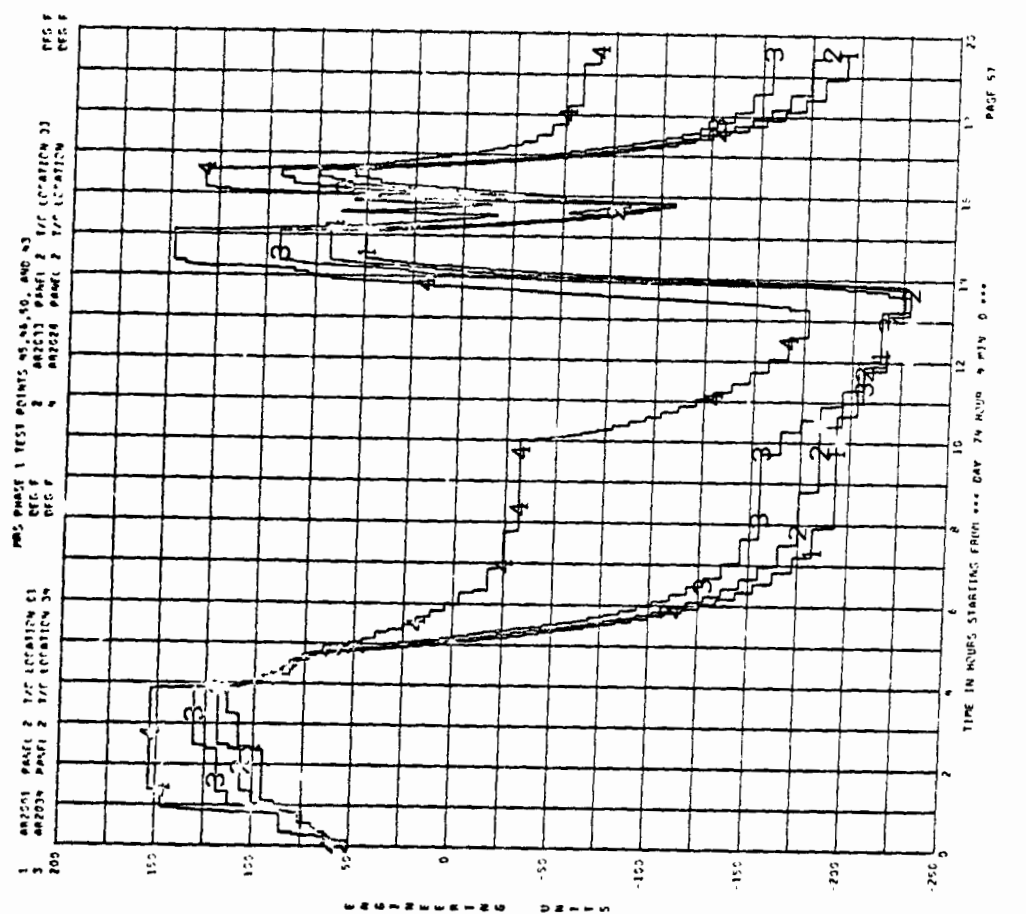
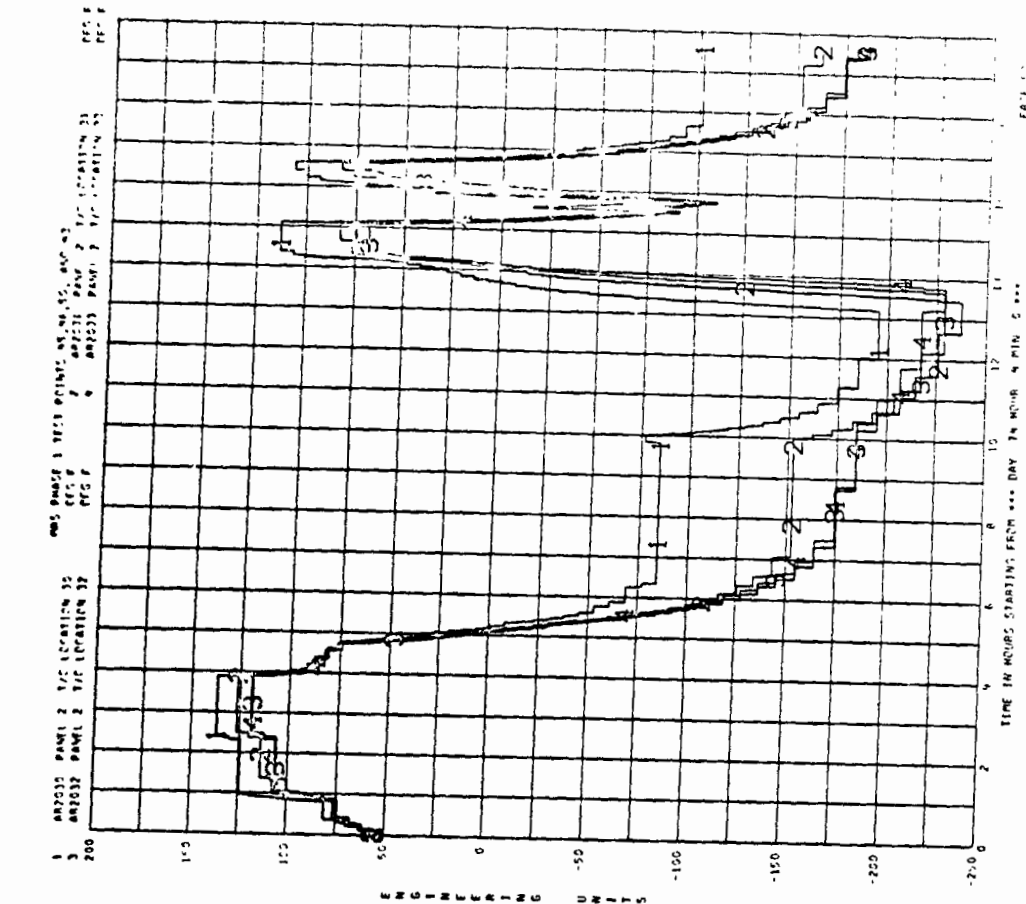


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 2. 00206 PANEL 2 T/C LOCATION 26
 3. 00207 PANEL 2 T/C LOCATION 27
 4. 00208 PANEL 2 T/C LOCATION 28
 5. 00209 PANEL 2 T/C LOCATION 29
 6. 00210 PANEL 2 T/C LOCATION 30

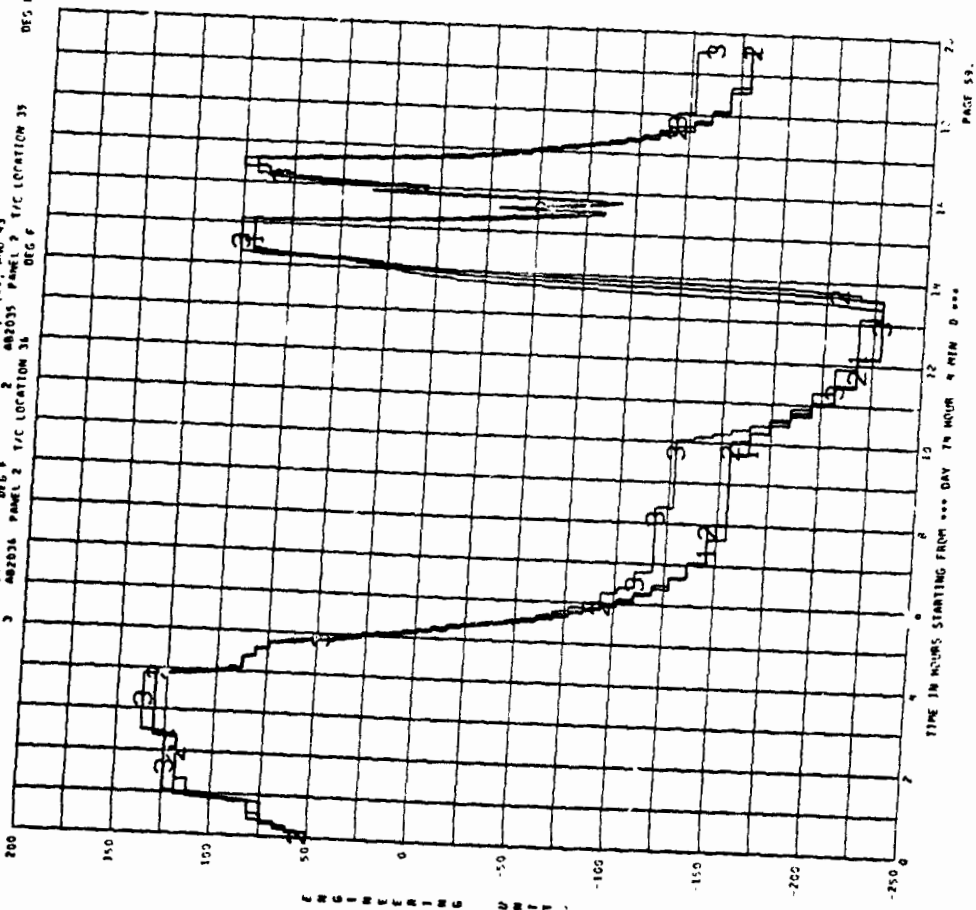




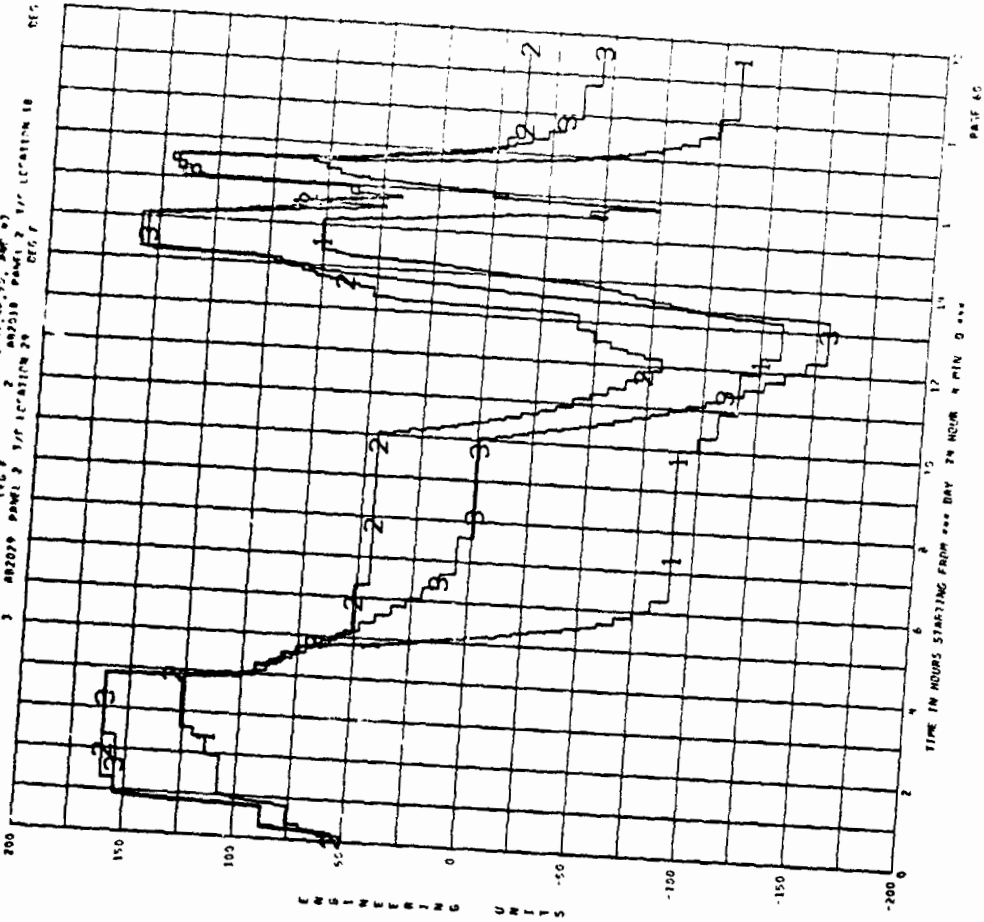


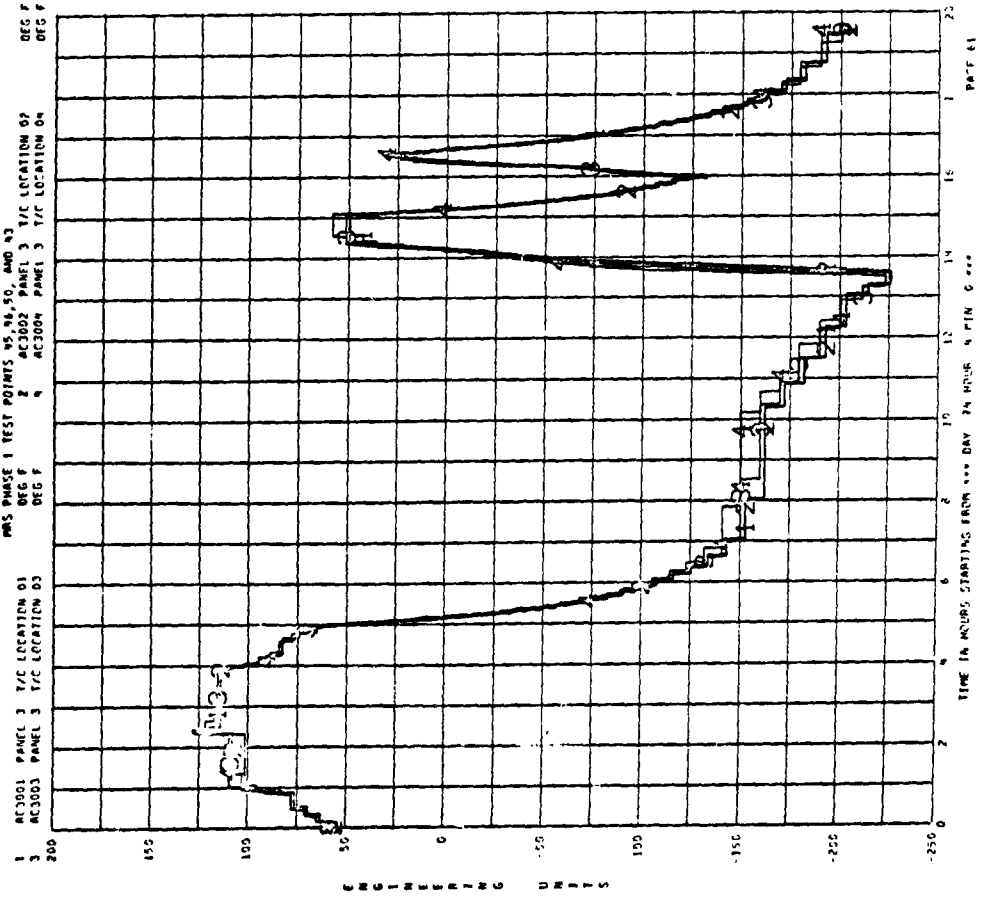
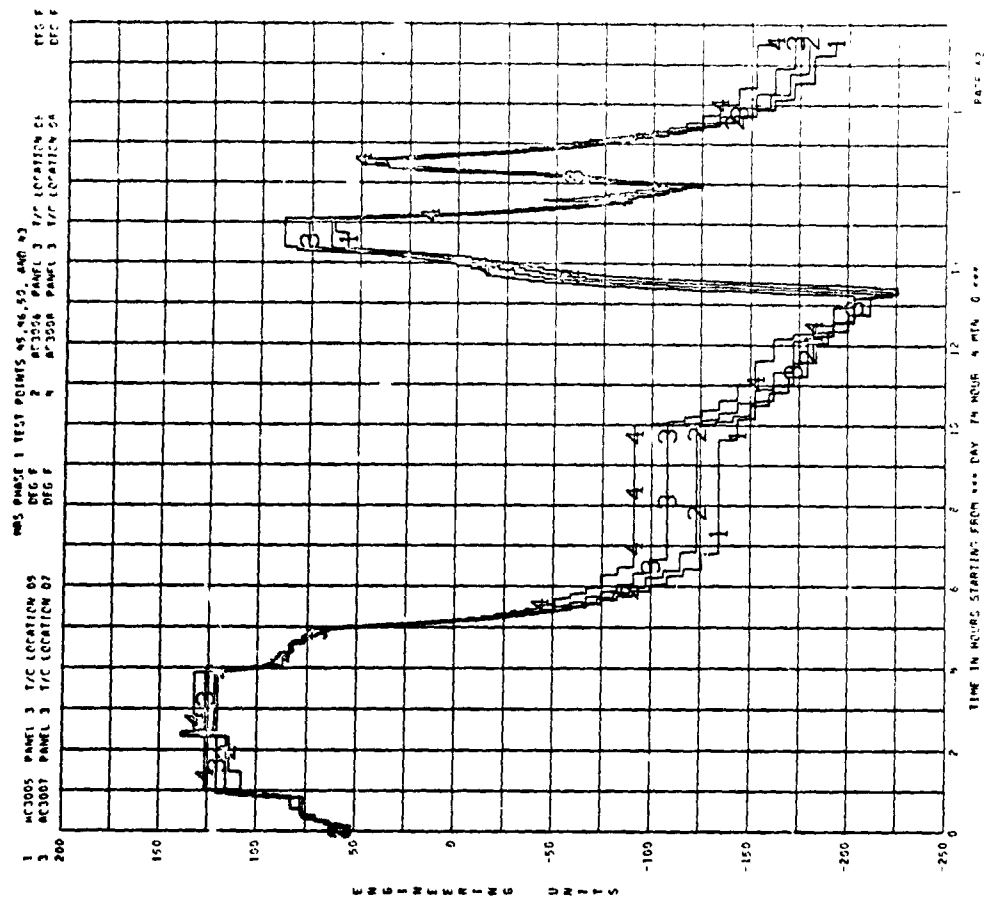


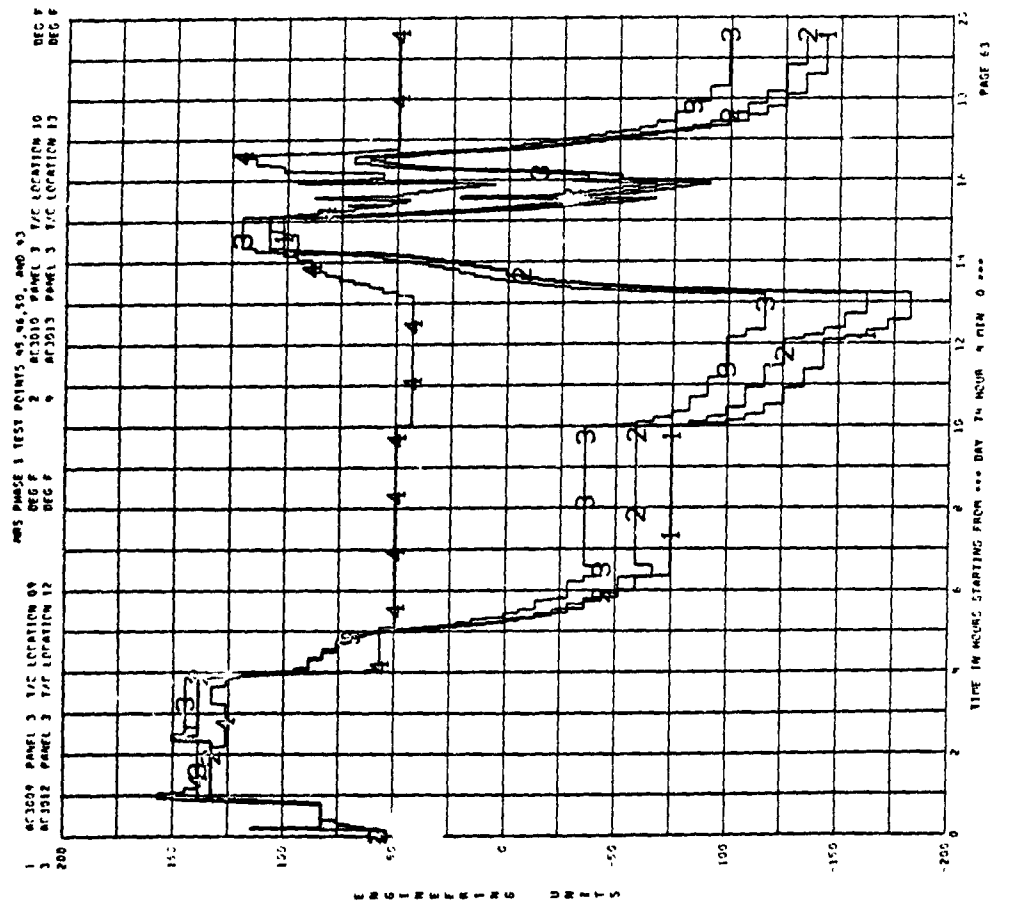
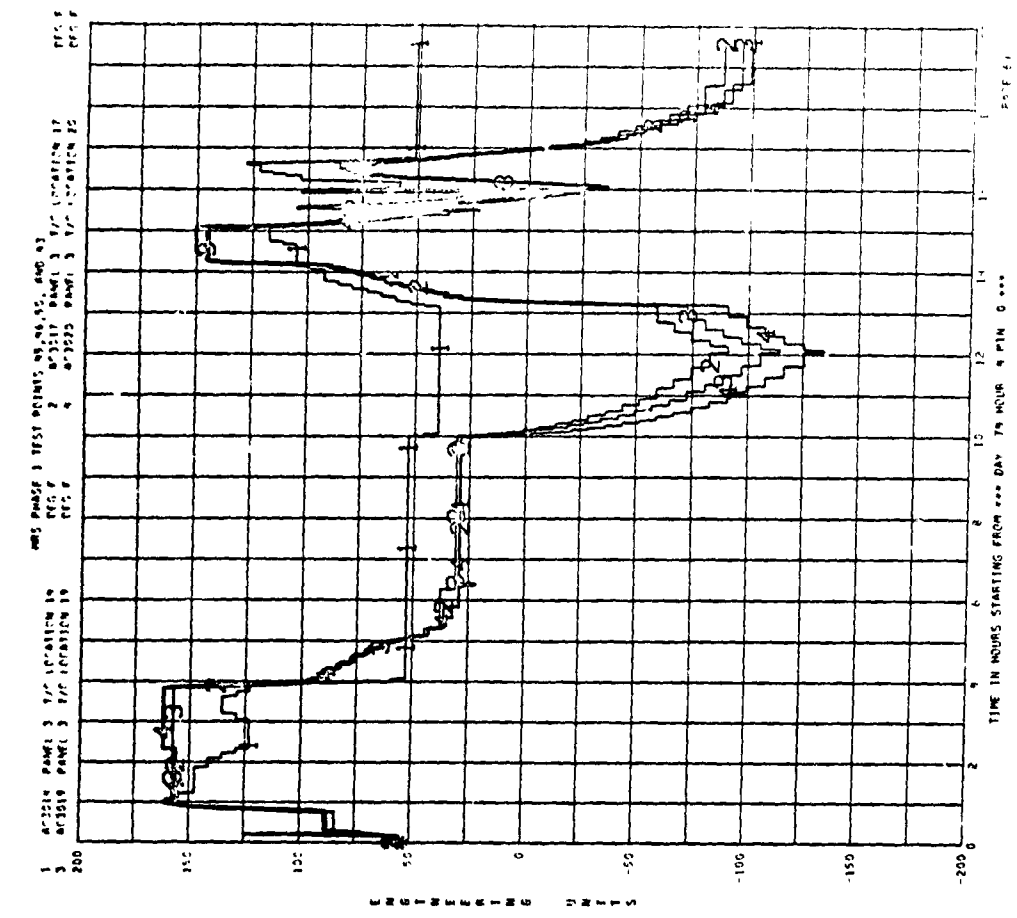
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 3 AB2036 PANEL 2 T/C LOCATION 36
 DEG F

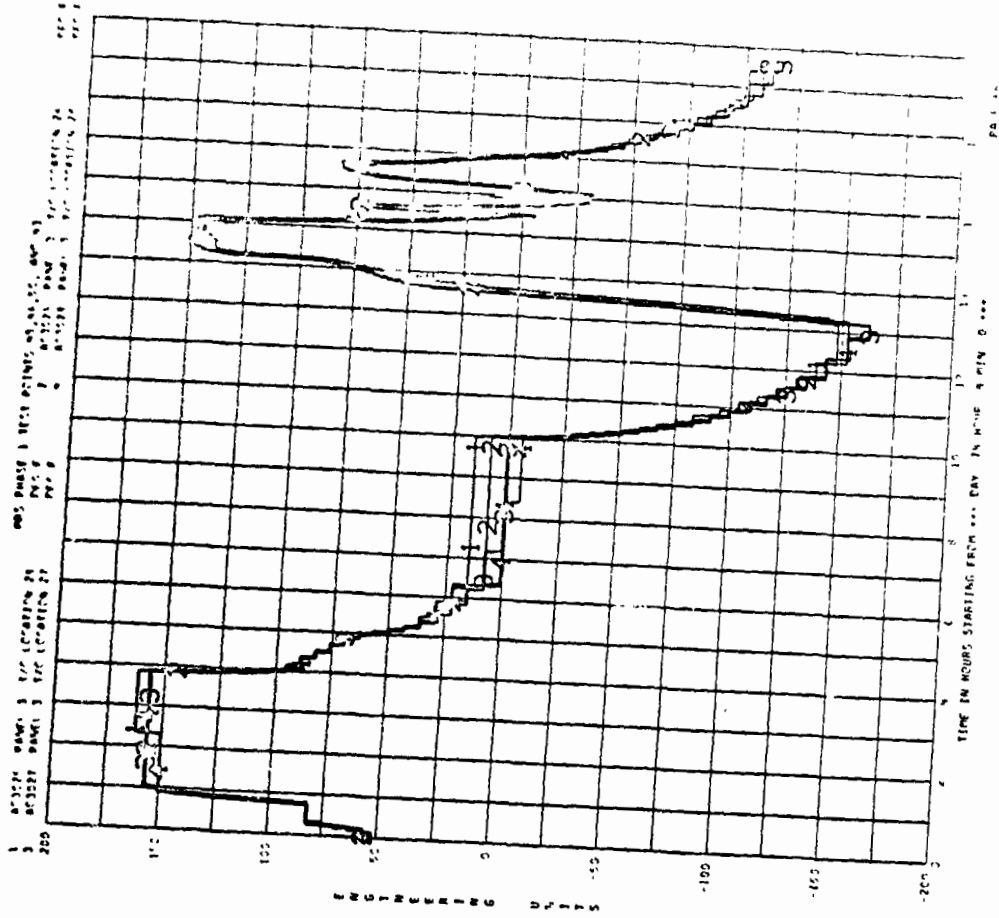
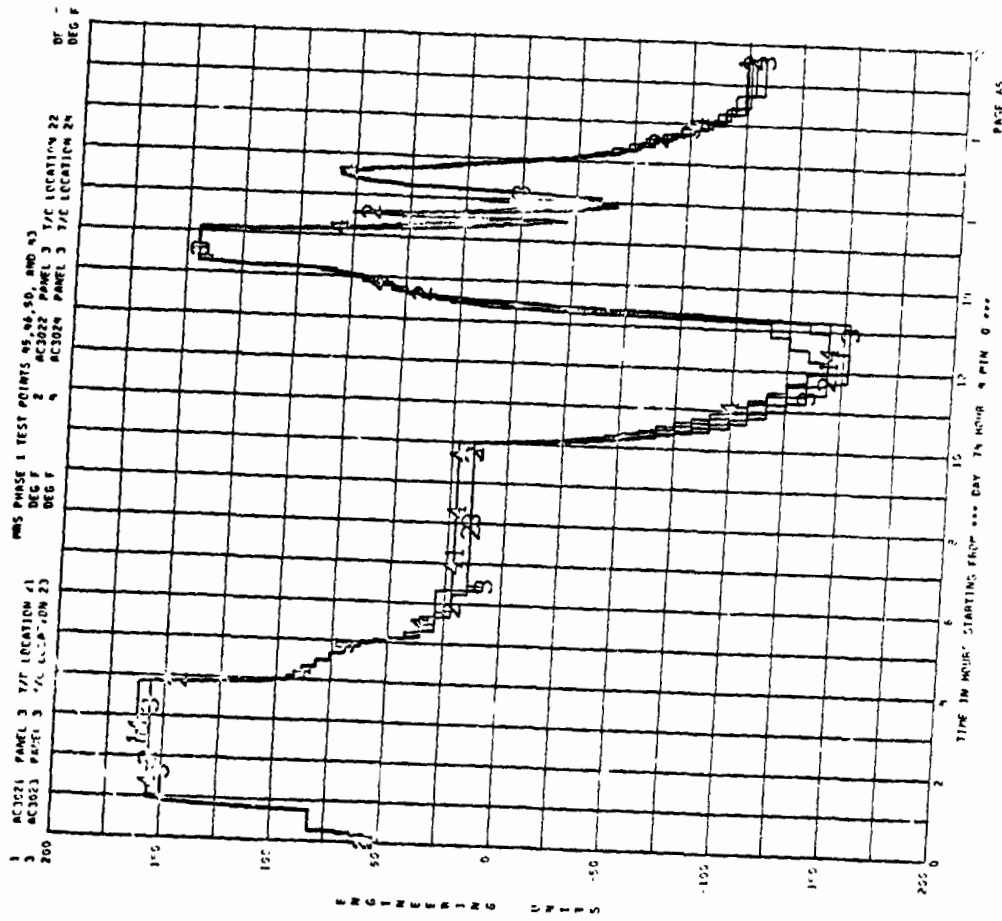


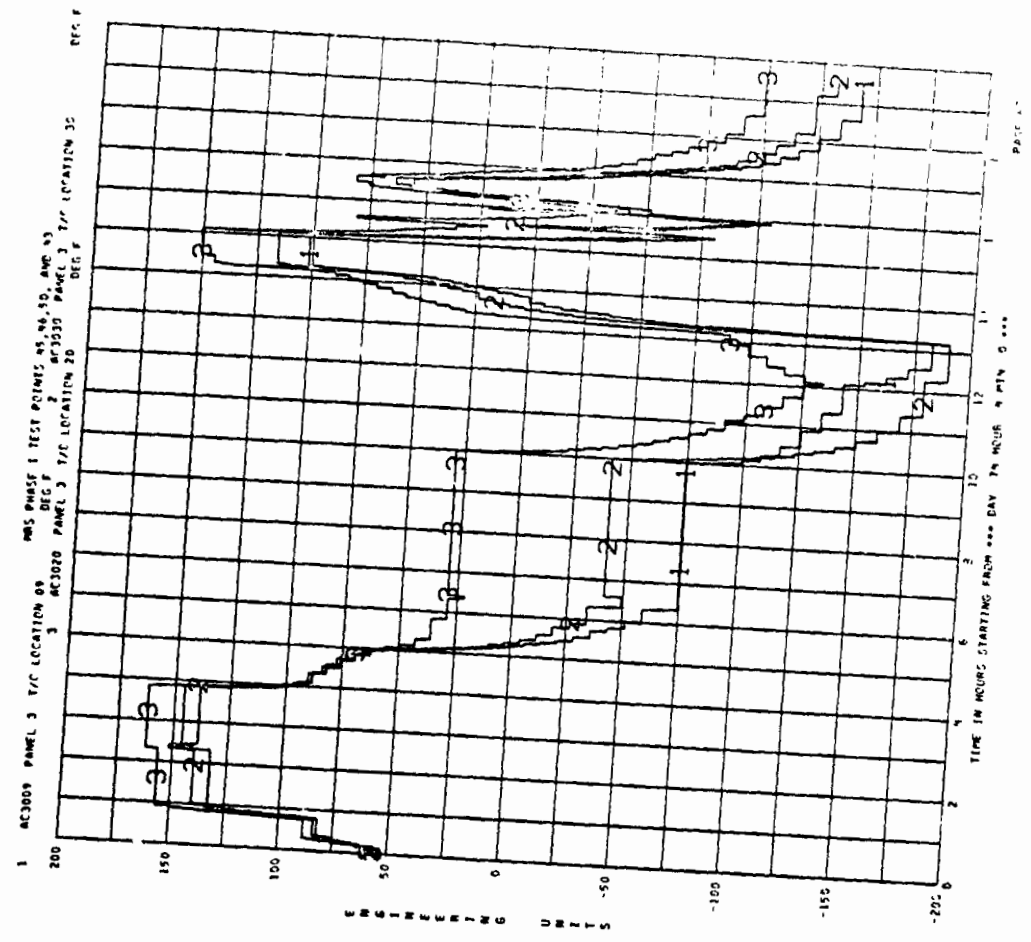
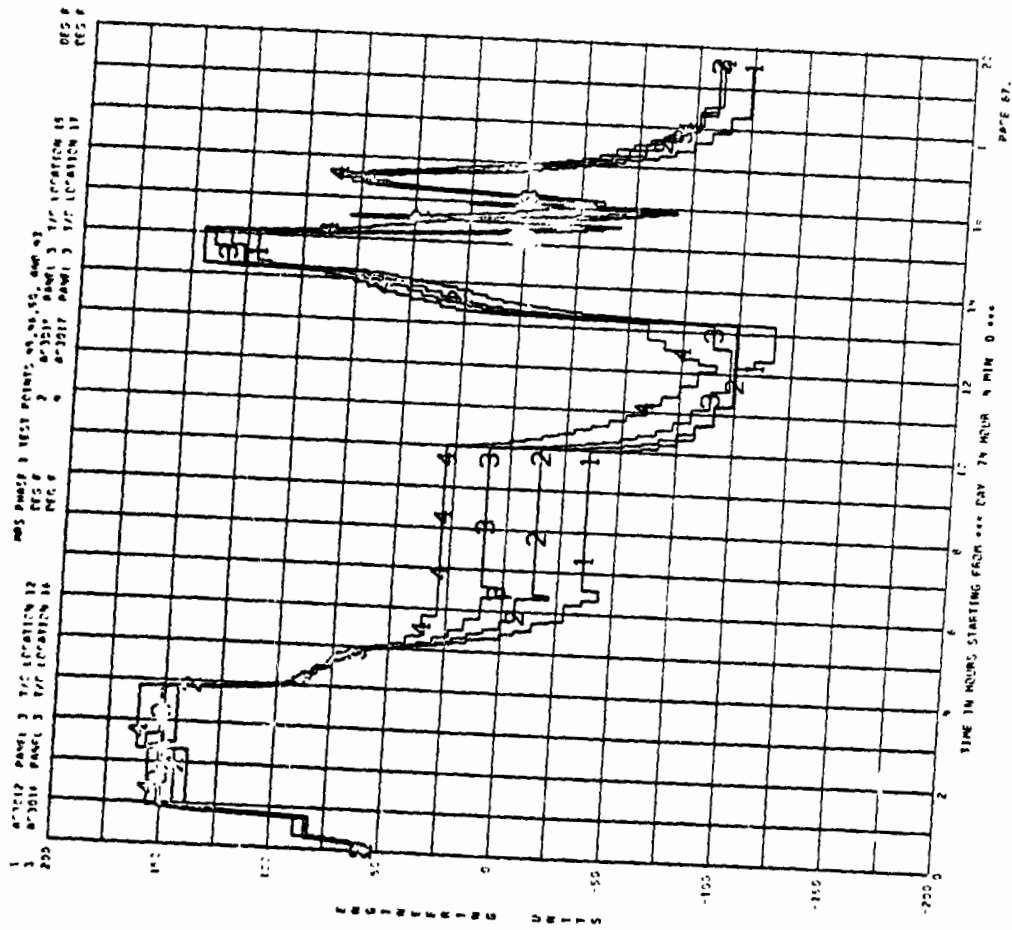
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 DEG F

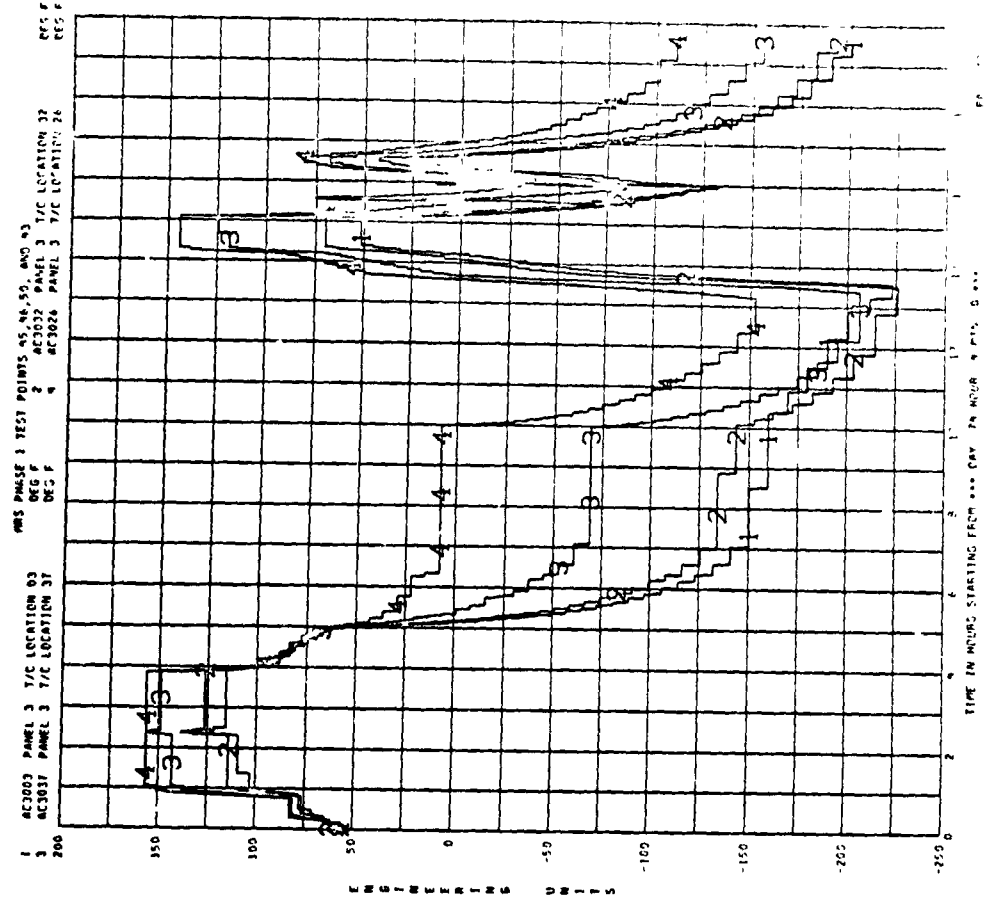
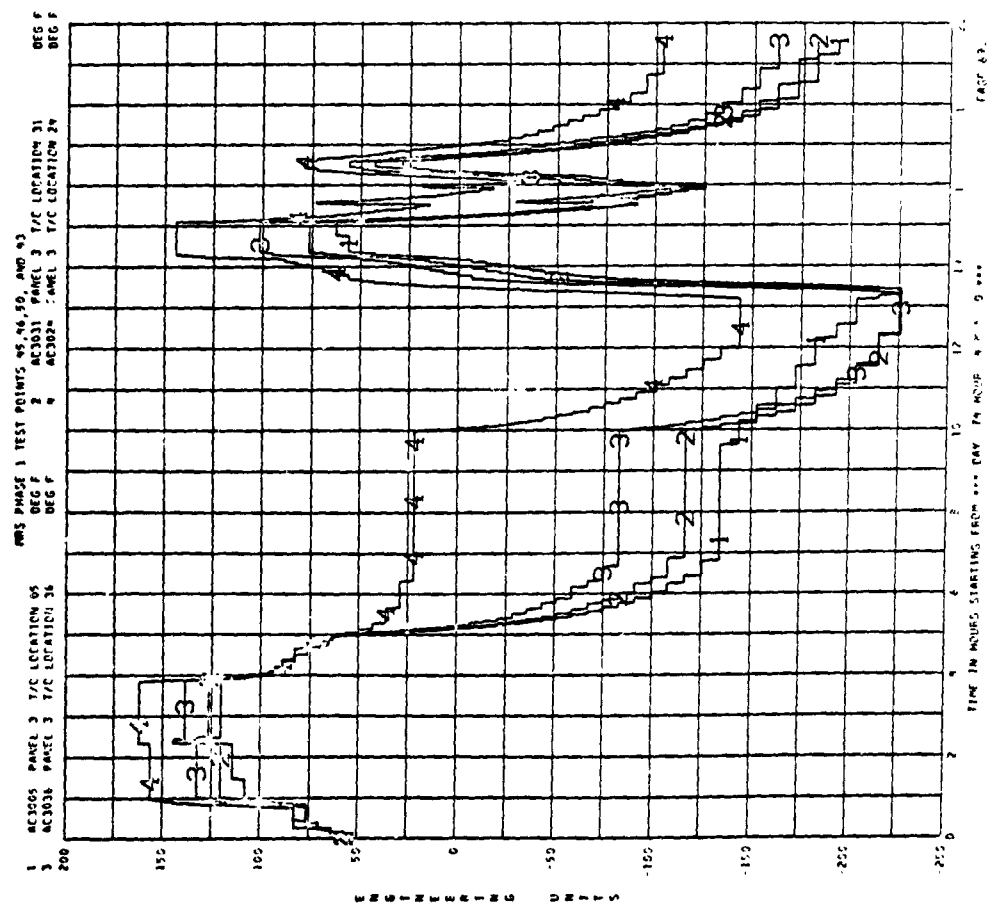


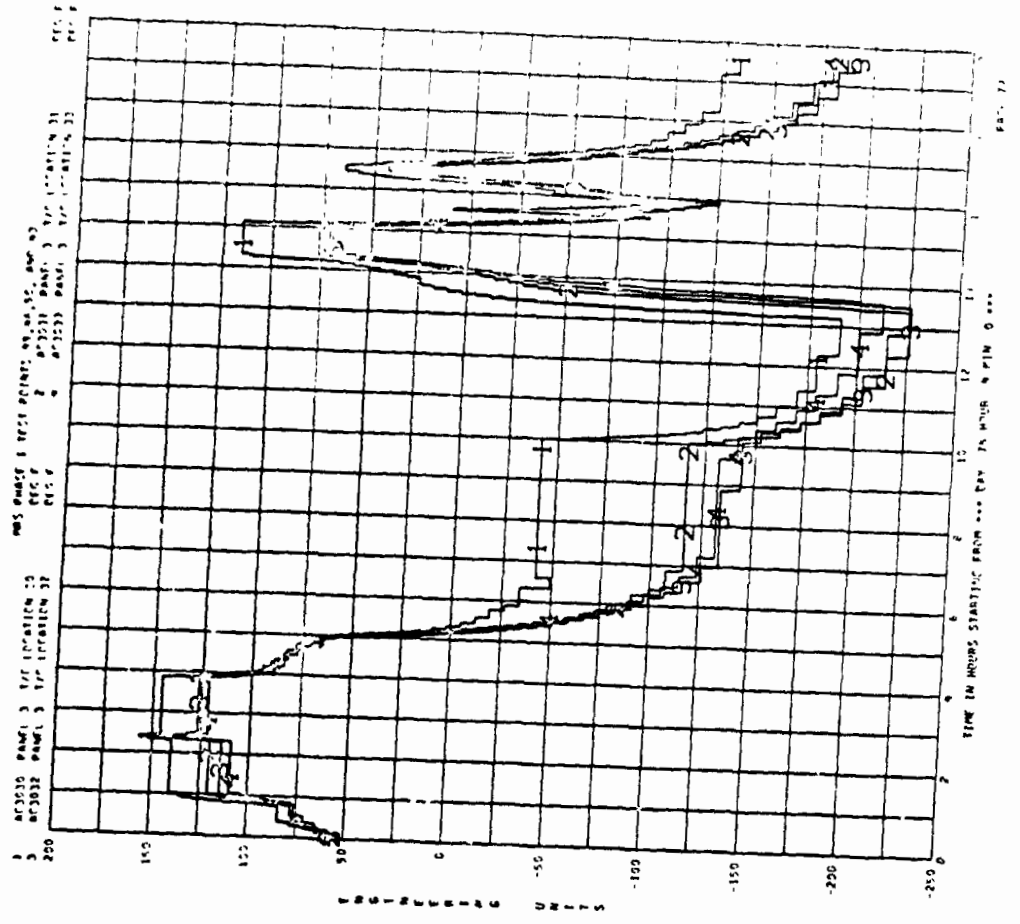
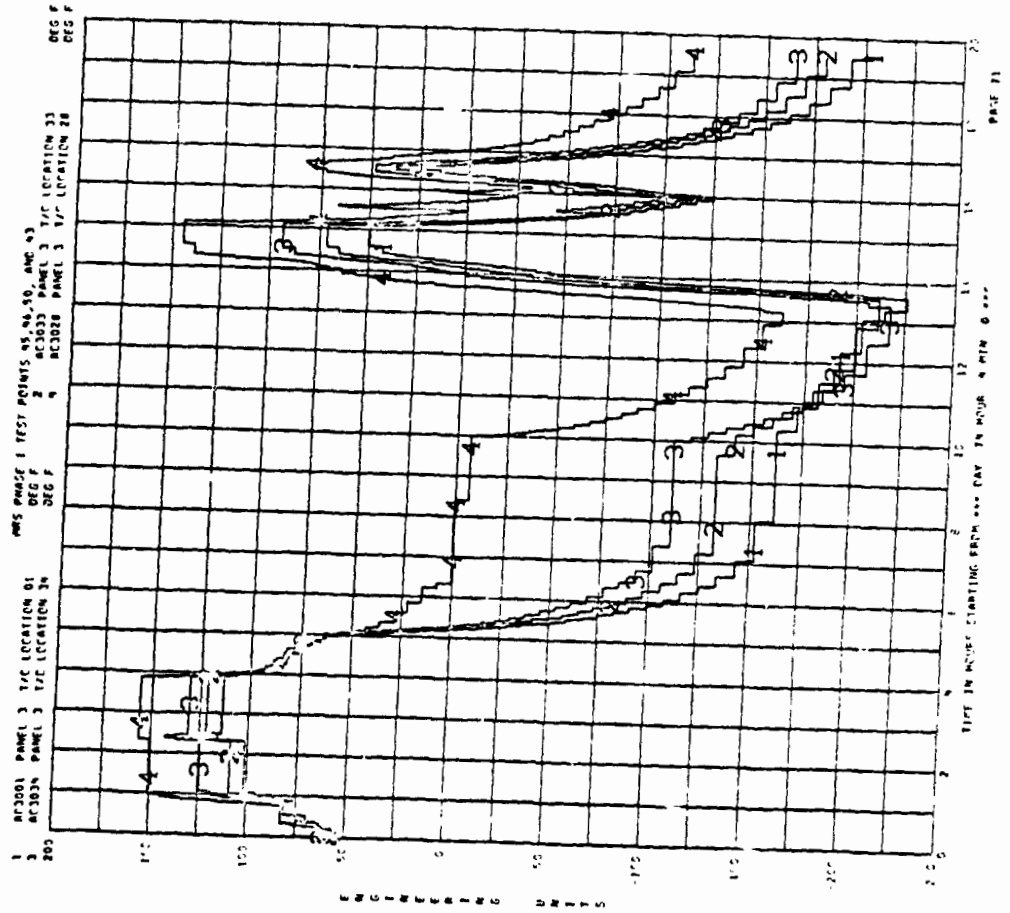




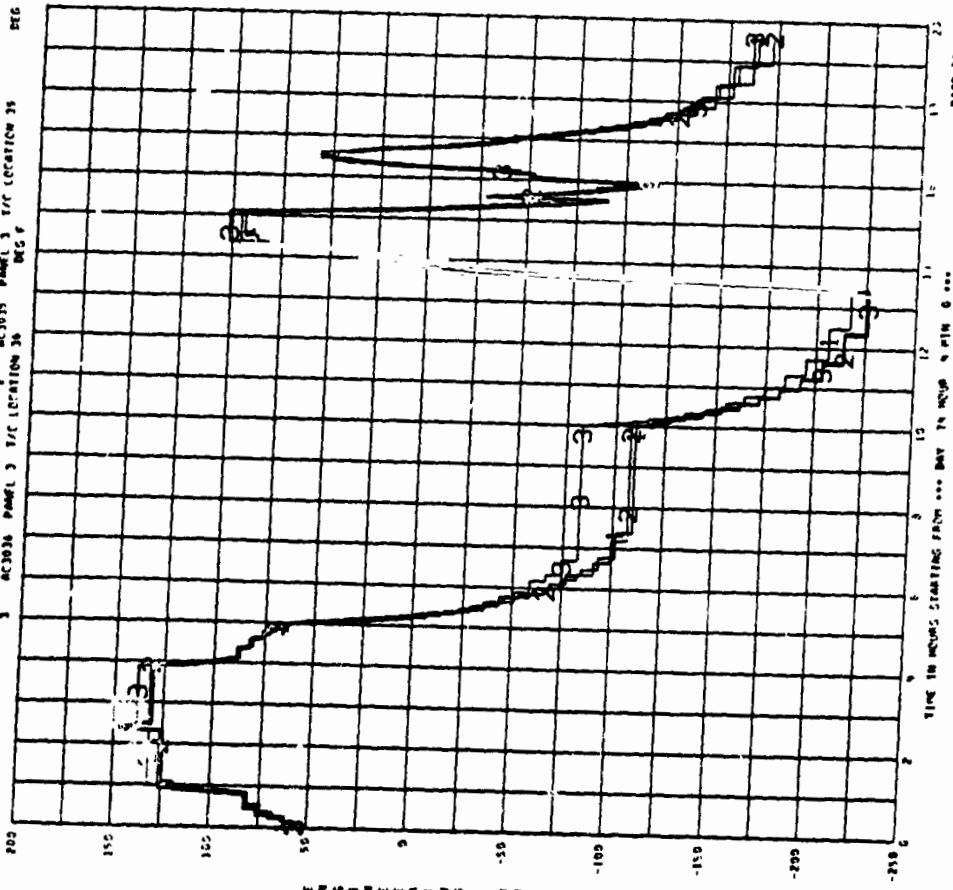




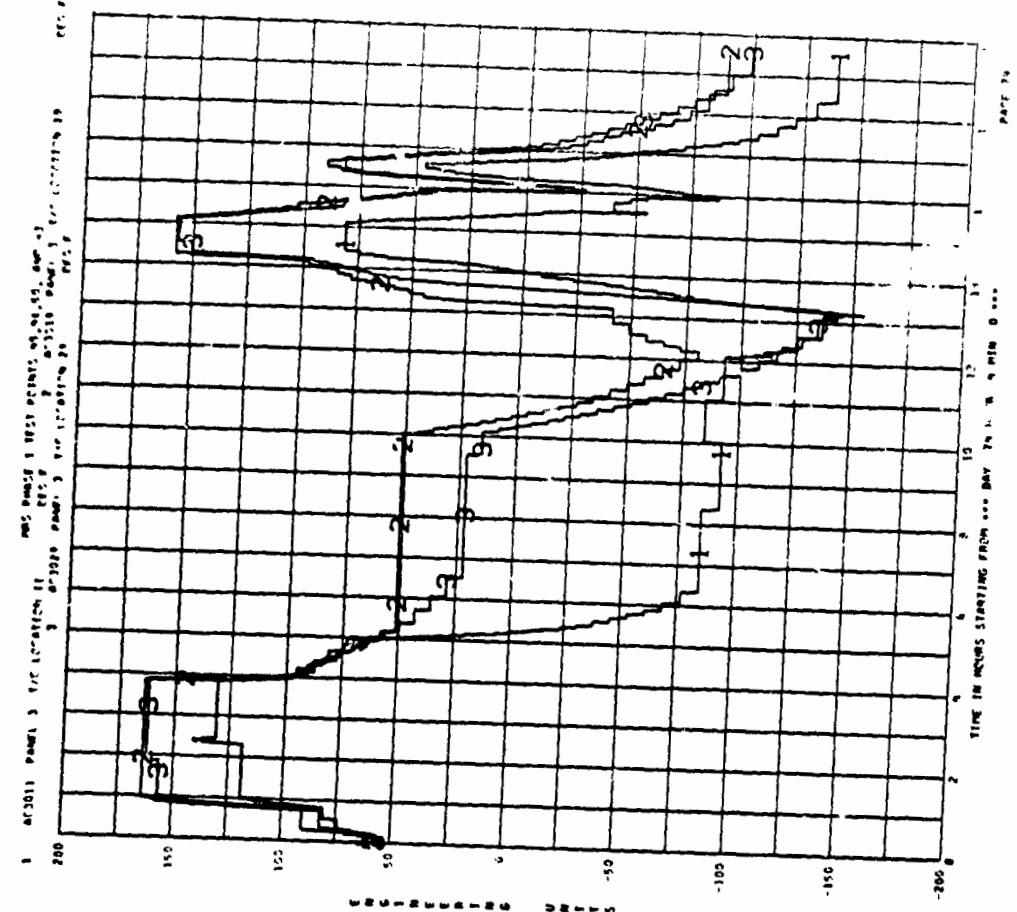




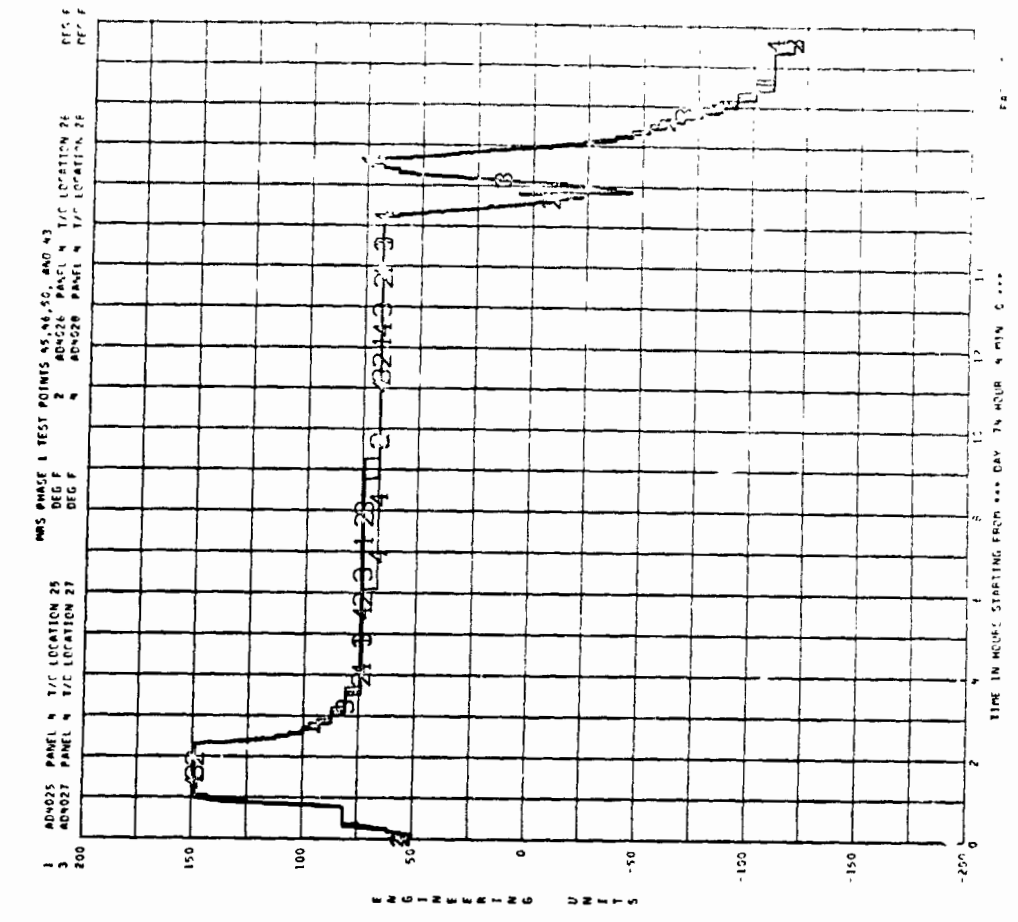
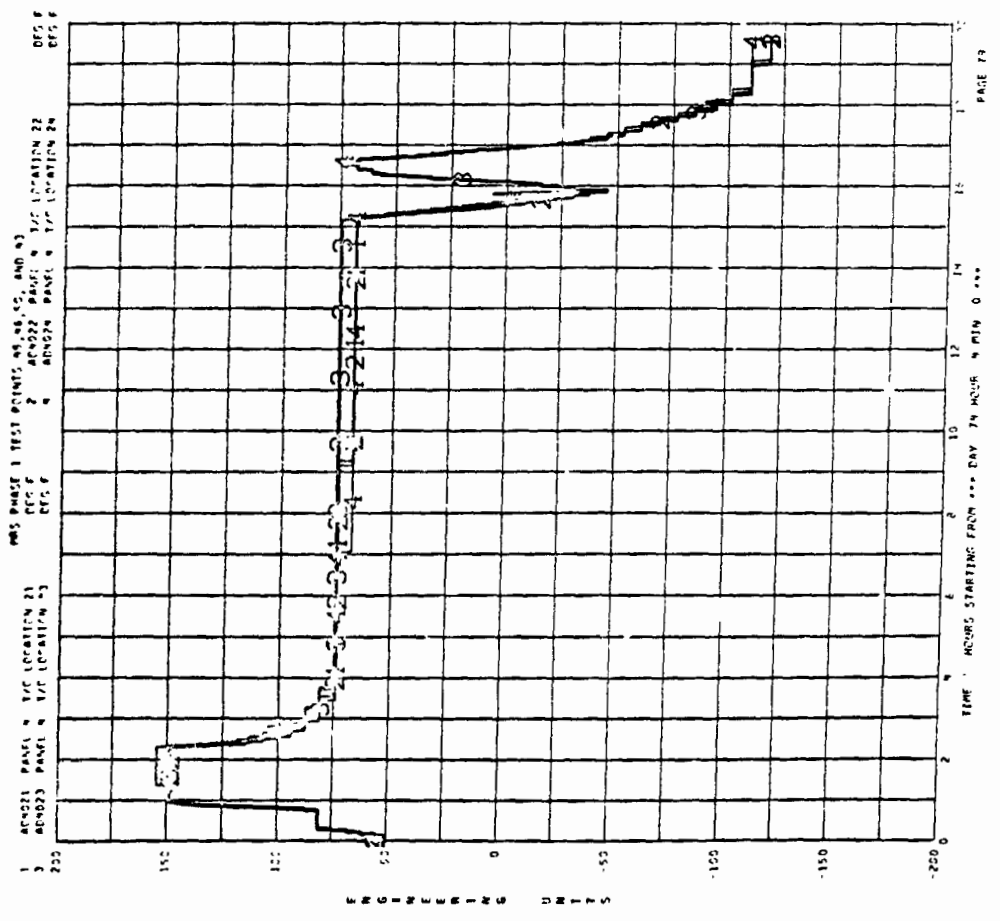
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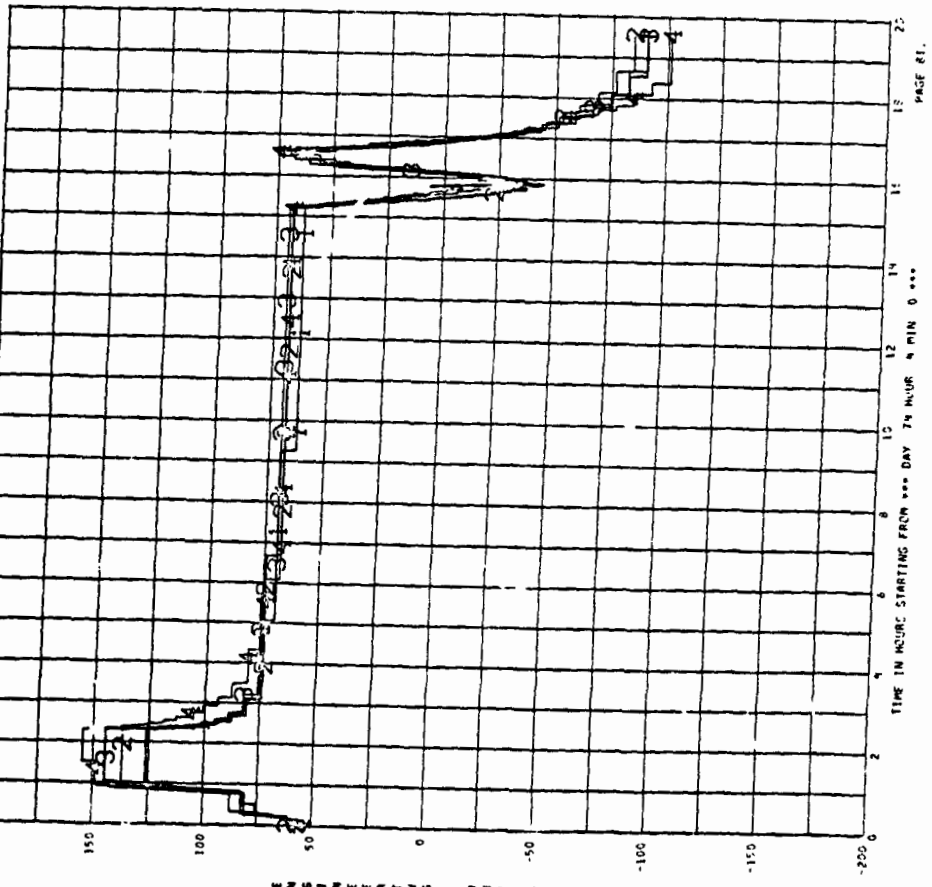
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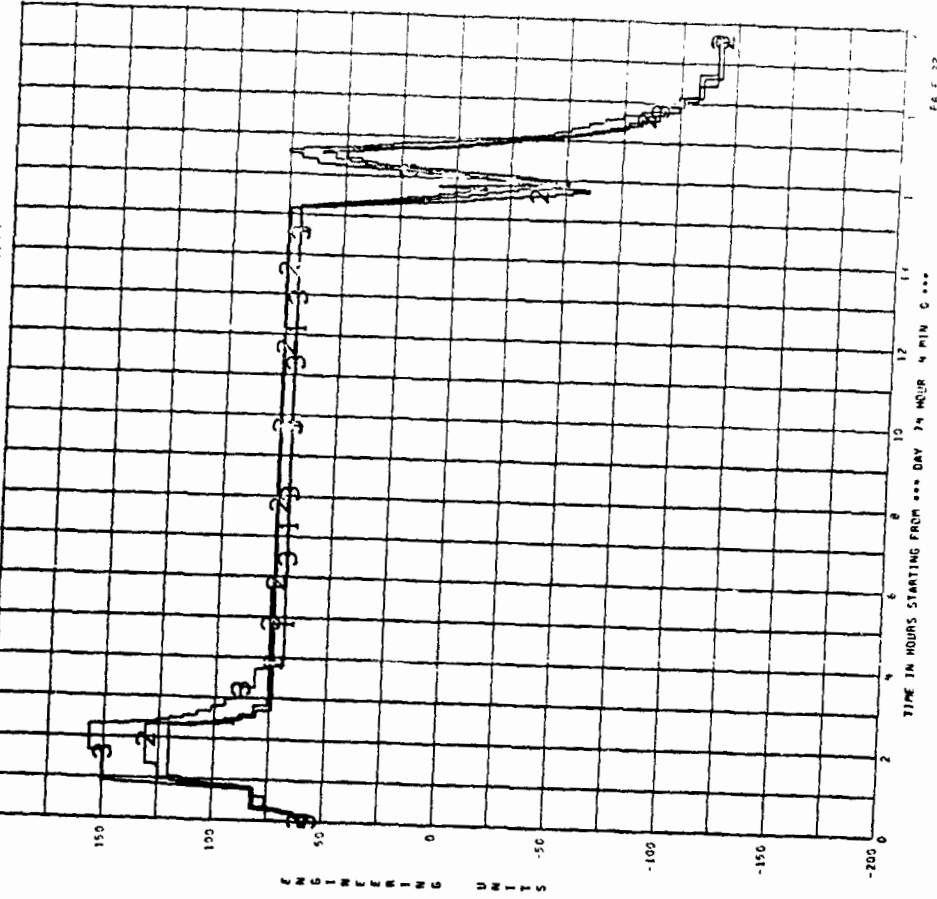
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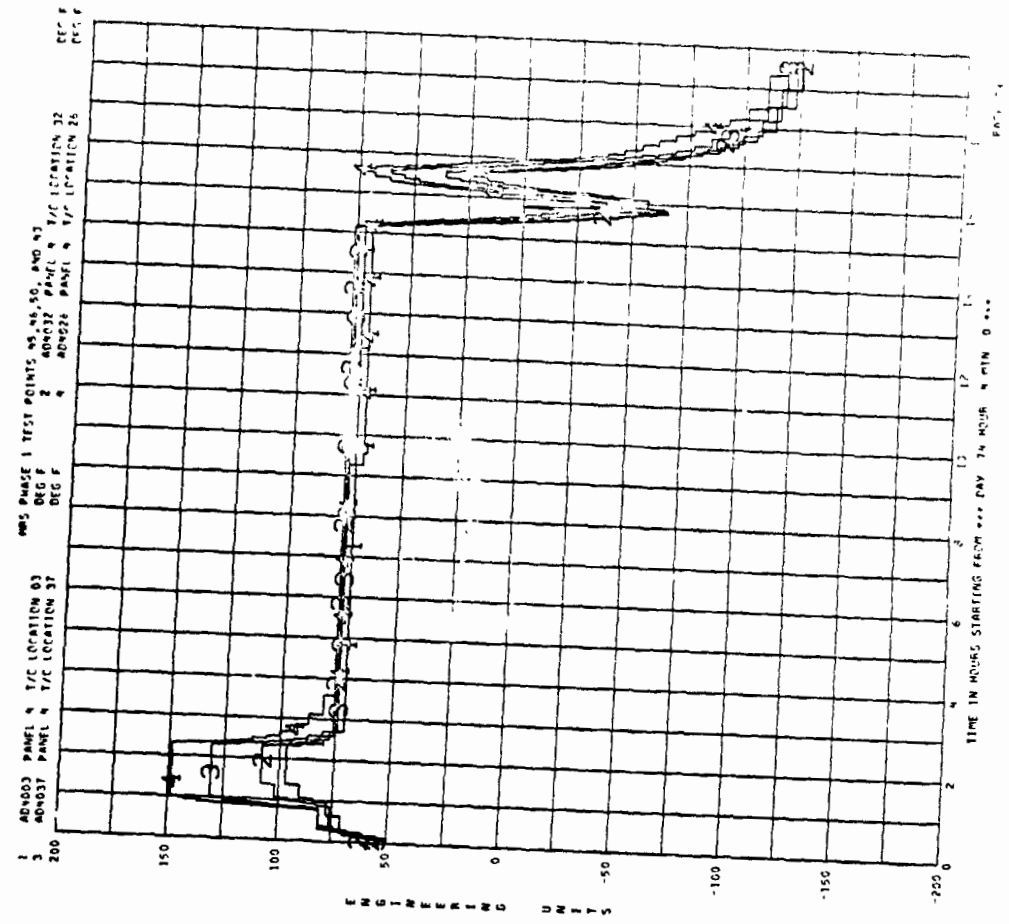
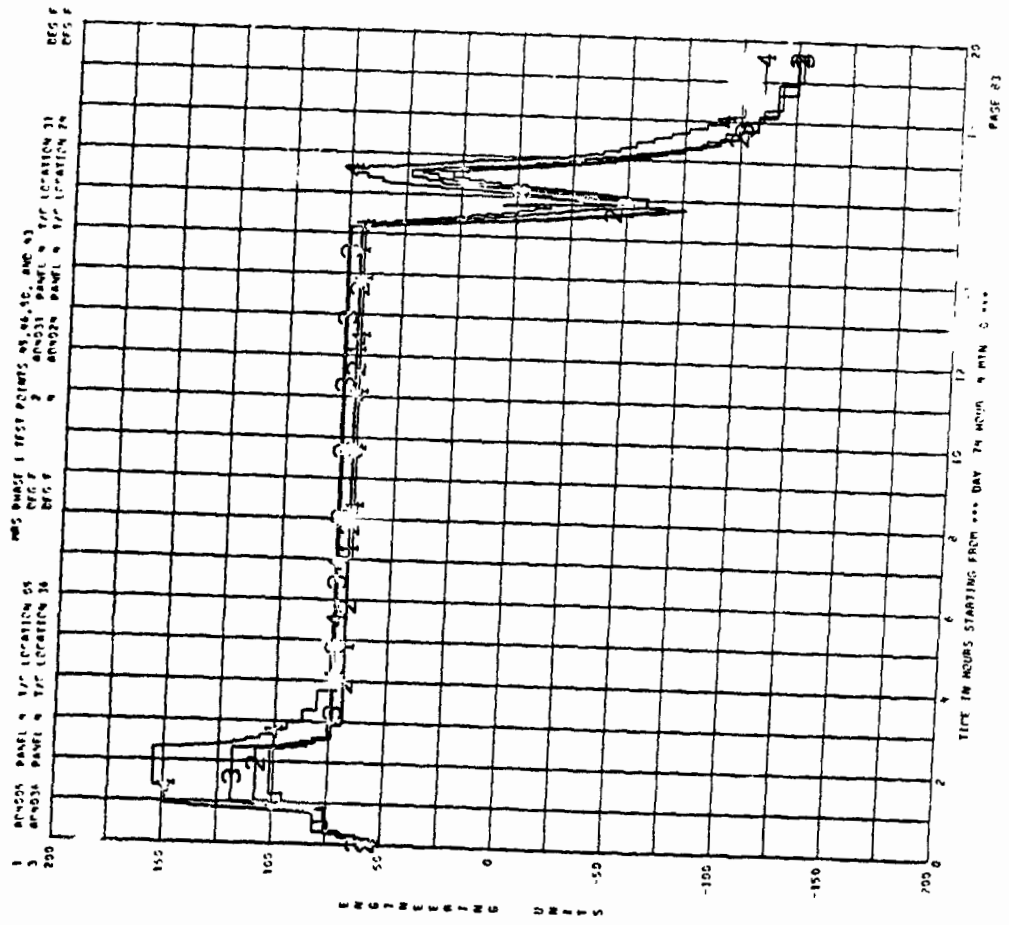


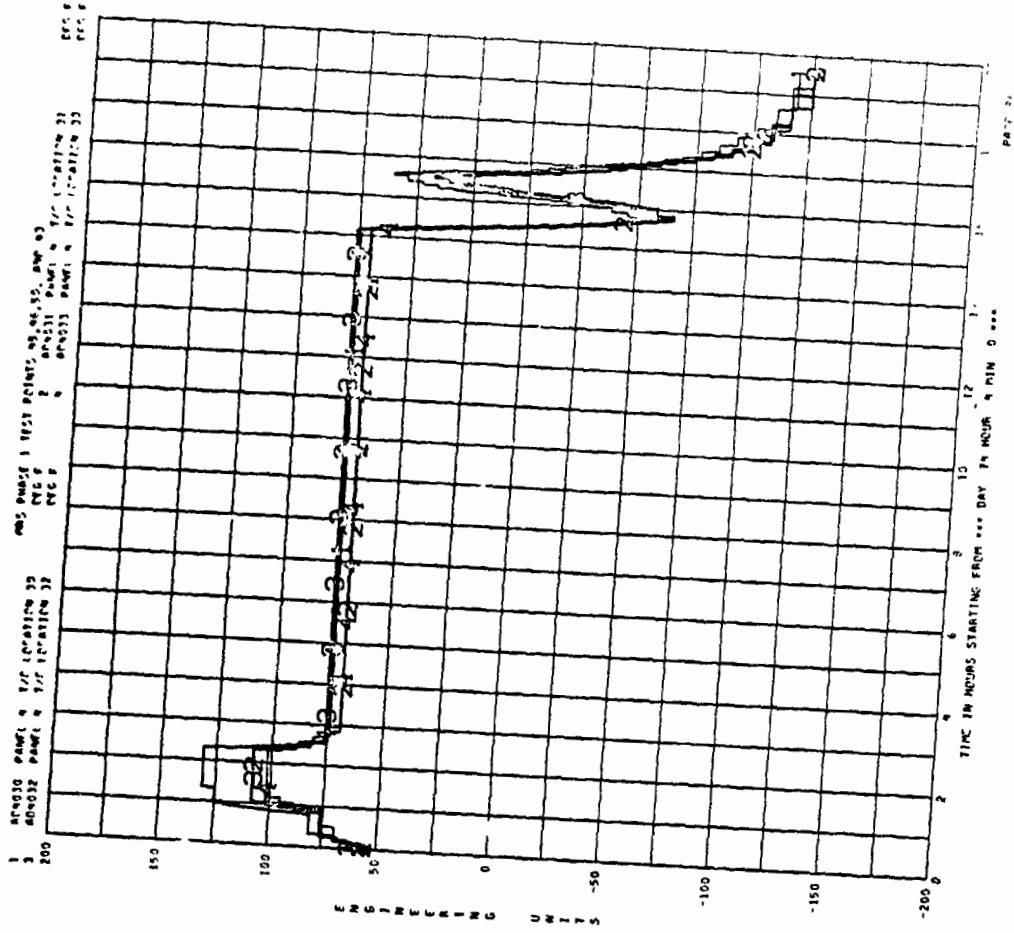
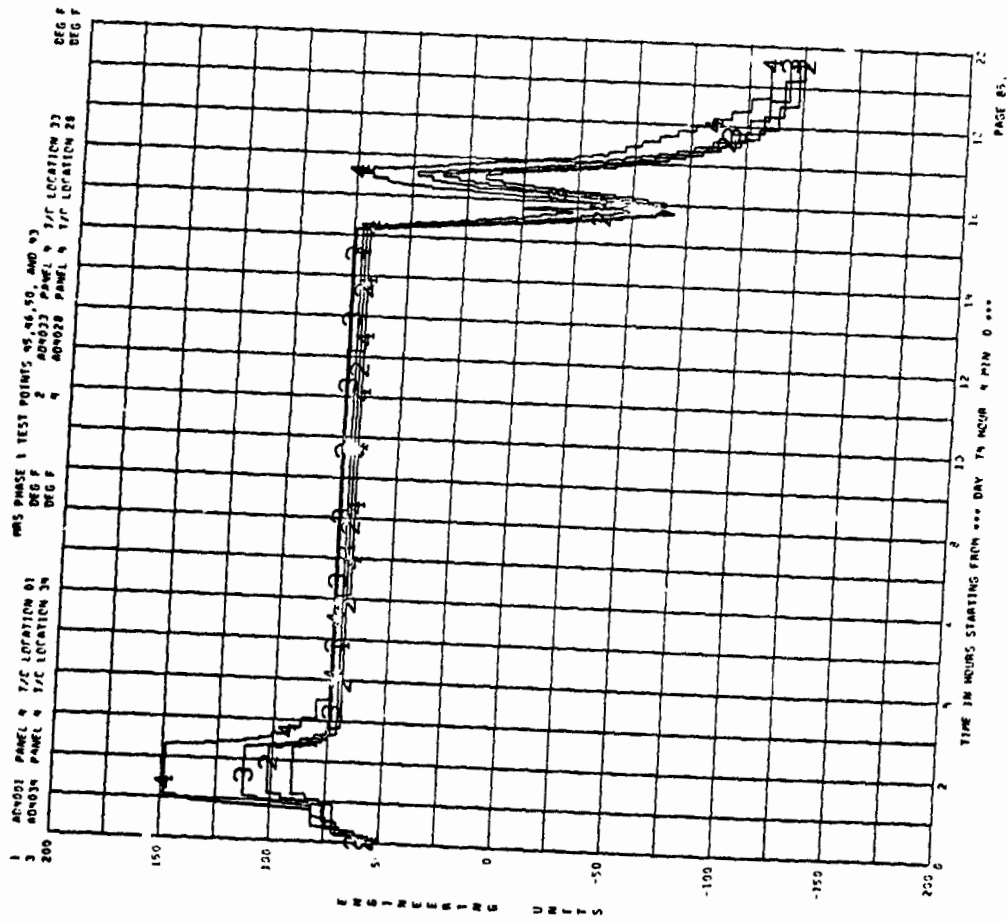
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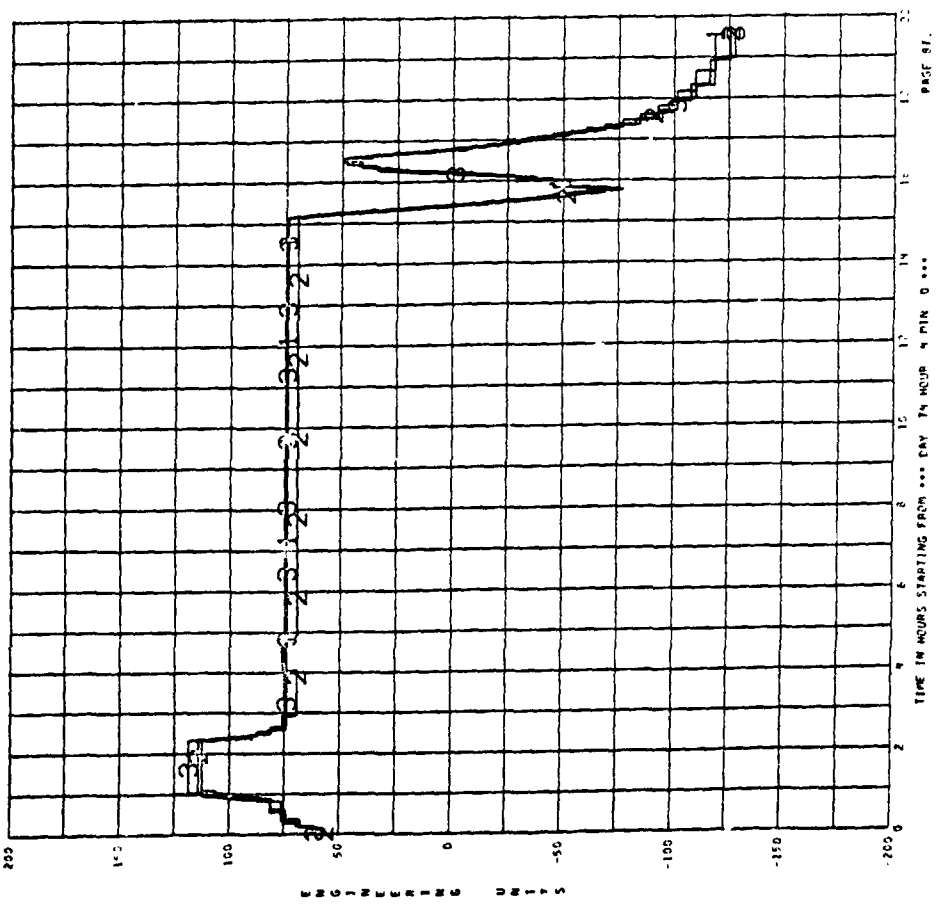
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 73 ADND73 PANEL N T/C LOCATION 73
 74 ADND74 PANEL N T/C LOCATION 74
 75 ADND75 PANEL N T/C LOCATION 75
 76 ADND76 PANEL N T/C LOCATION 76
 77 ADND77 PANEL N T/C LOCATION 77
 78 ADND78 PANEL N T/C LOCATION 78
 79 ADND79 PANEL N T/C LOCATION 79
 80 ADND80 PANEL N T/C LOCATION 80
 81 ADND81 PANEL N T/C LOCATION 81
 82 ADND82 PANEL N T/C LOCATION 82
 83 ADND83 PANEL N T/C LOCATION 83
 84 ADND84 PANEL N T/C LOCATION 84
 85 ADND85 PANEL N T/C LOCATION 85
 86 ADND86 PANEL N T/C LOCATION 86
 87 ADND87 PANEL N T/C LOCATION 87
 88 ADND88 PANEL N T/C LOCATION 88
 89 ADND89 PANEL N T/C LOCATION 89
 90 ADND90 PANEL N T/C LOCATION 90
 91 ADND91 PANEL N T/C LOCATION 91
 92 ADND92 PANEL N T/C LOCATION 92
 93 ADND93 PANEL N T/C LOCATION 93
 94 ADND94 PANEL N T/C LOCATION 94
 95 ADND95 PANEL N T/C LOCATION 95
 96 ADND96 PANEL N T/C LOCATION 96
 97 ADND97 PANEL N T/C LOCATION 97
 98 ADND98 PANEL N T/C LOCATION 98
 99 ADND99 PANEL N T/C LOCATION 99
 100 ADND100 PANEL N T/C LOCATION 100





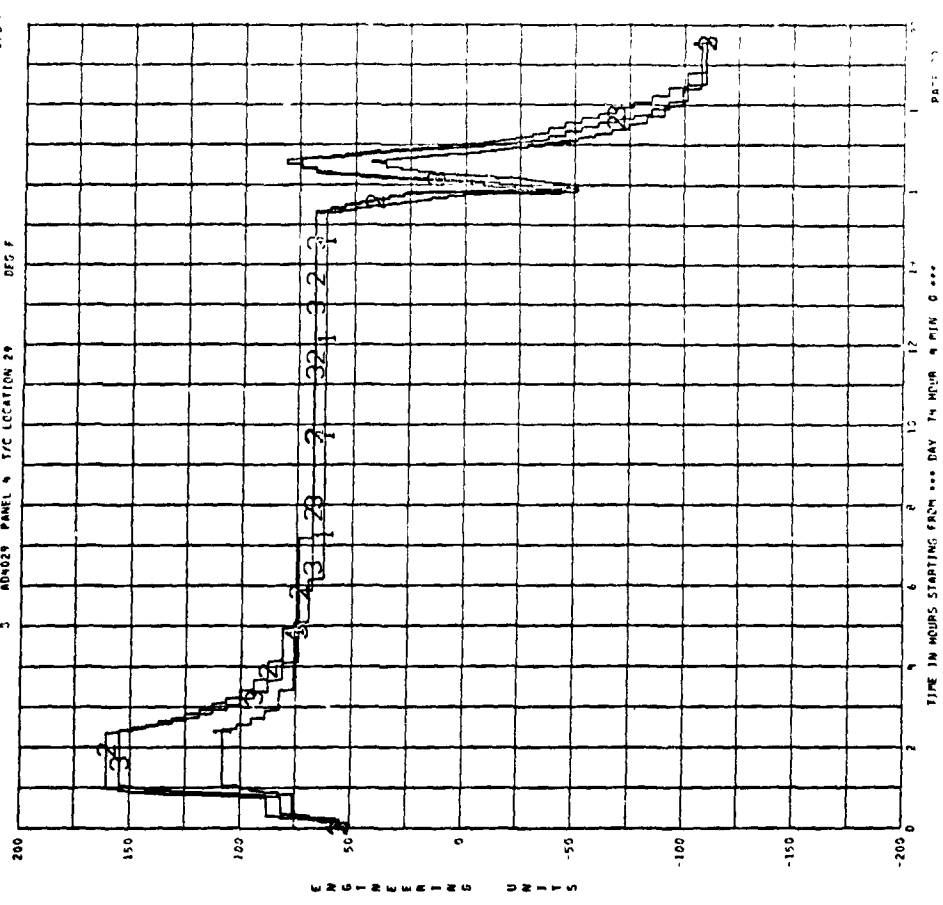


1 AD0331 PANEL 4 T/C LOCATION 34 RMS PHASE 1 TEST POINTS 45, 46, 50, AND 43 DEG F
 2 AD0335 PANEL 4 T/C LOCATION 35 DEG F
 3 AD0336 PANEL 4 T/C LOCATION 36 DEG F

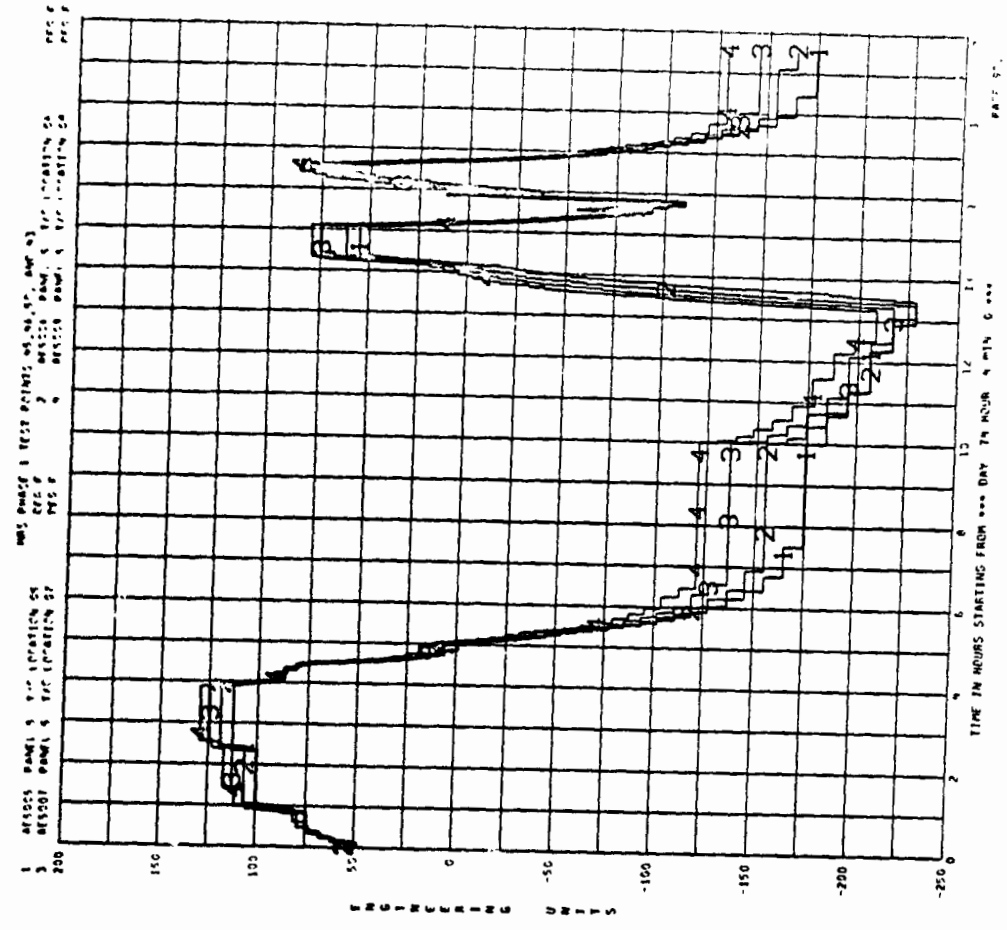
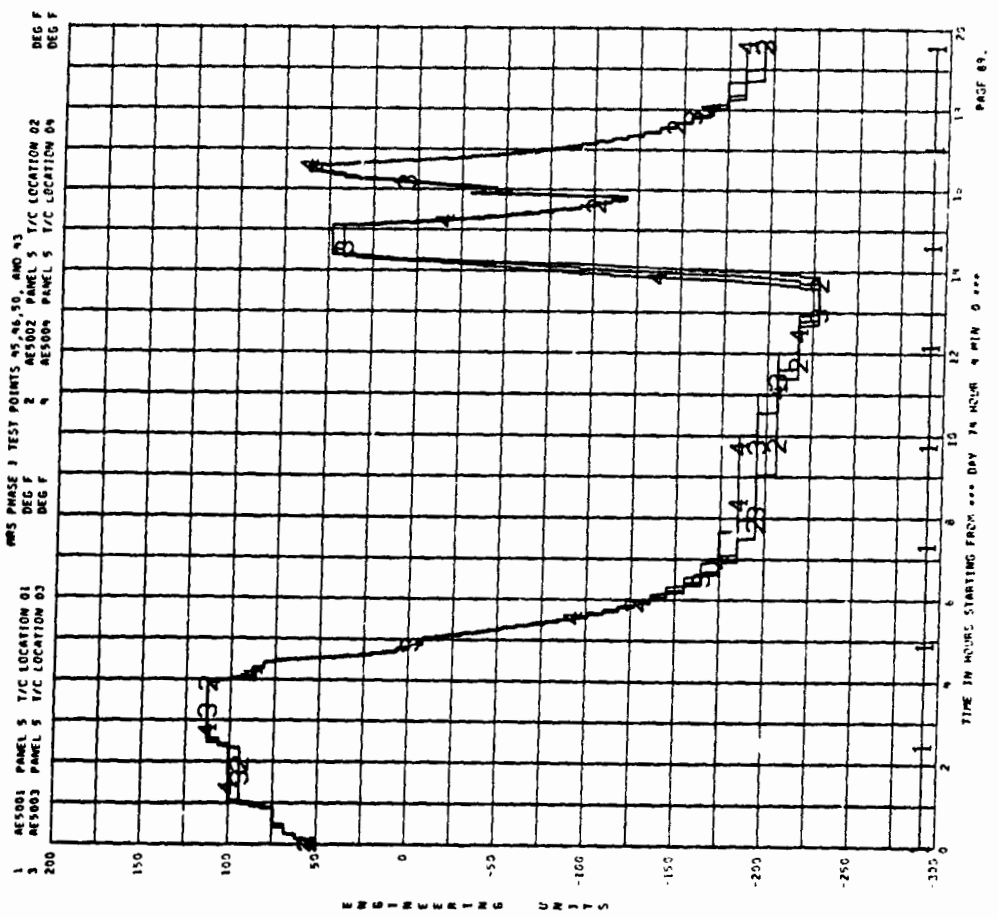


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1 AD0311 PANEL 4 T/C LOCATION 11 RMS PHASE 1 TEST POINTS 45, 46, 50, AND 43 DEG F
 2 AD0312 PANEL 4 T/C LOCATION 12 DEG F
 3 AD0329 PANEL 4 T/C LOCATION 29 DEG F

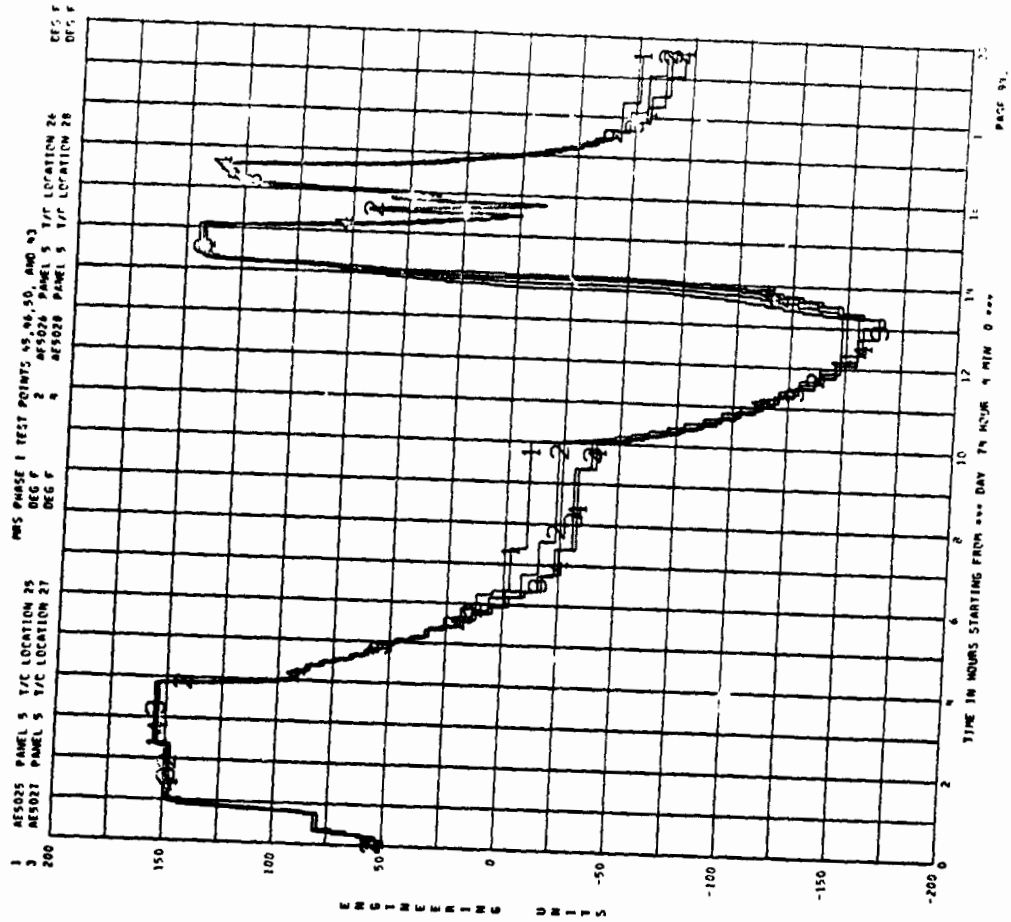
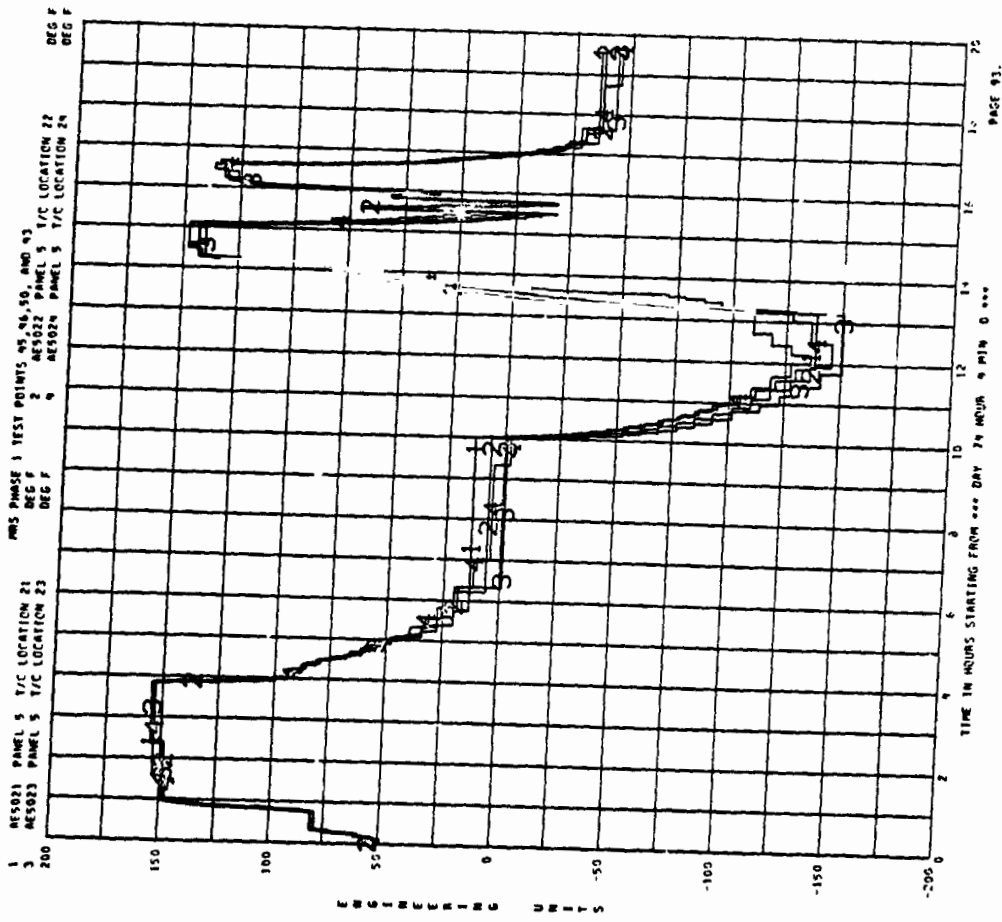


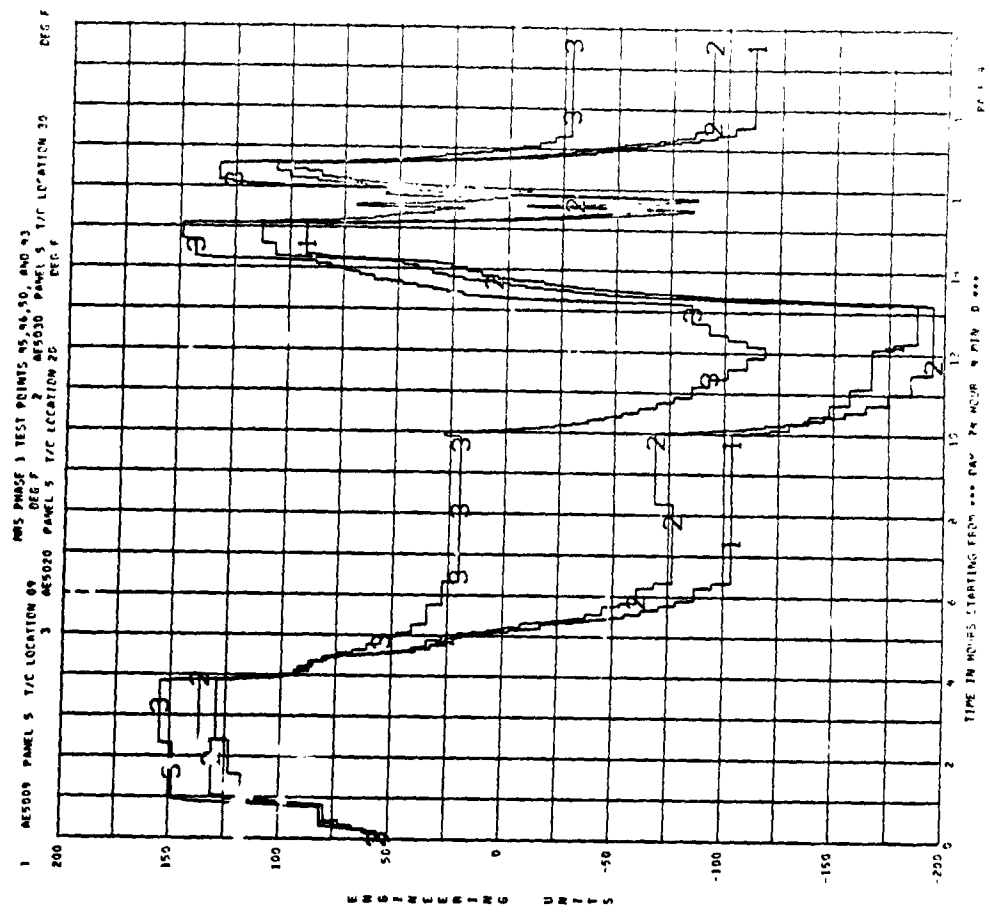
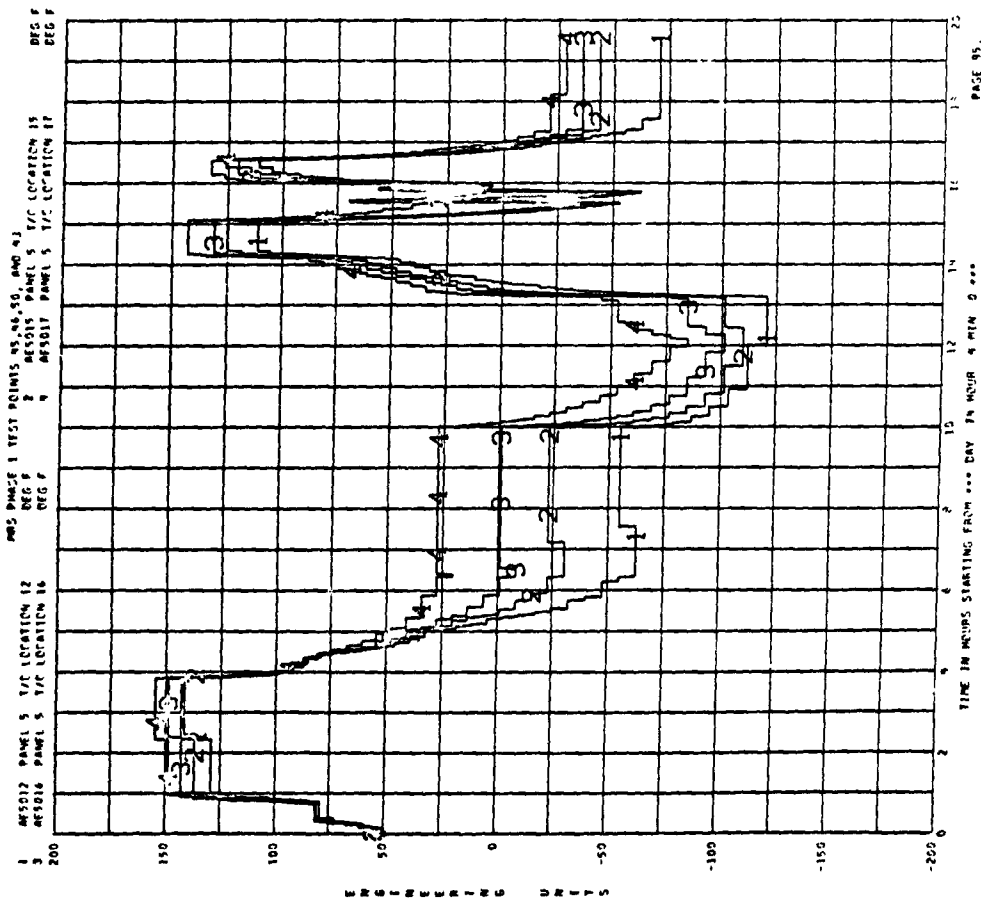
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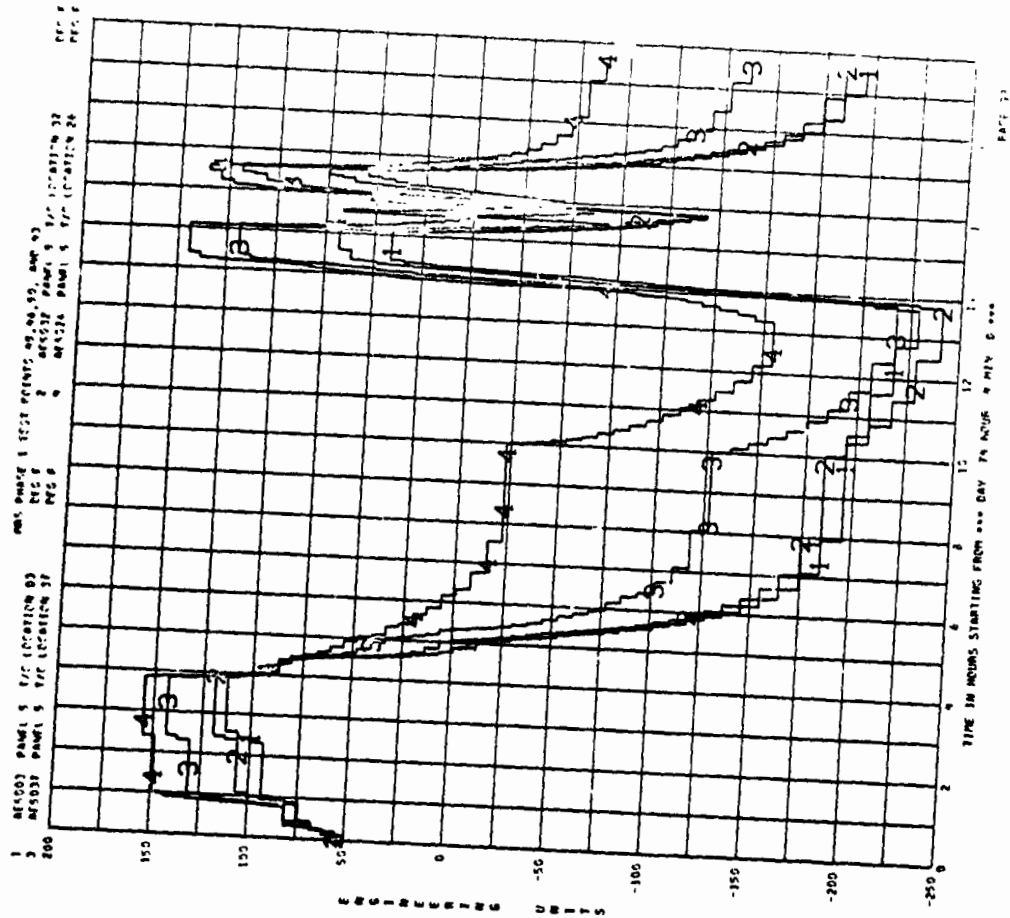
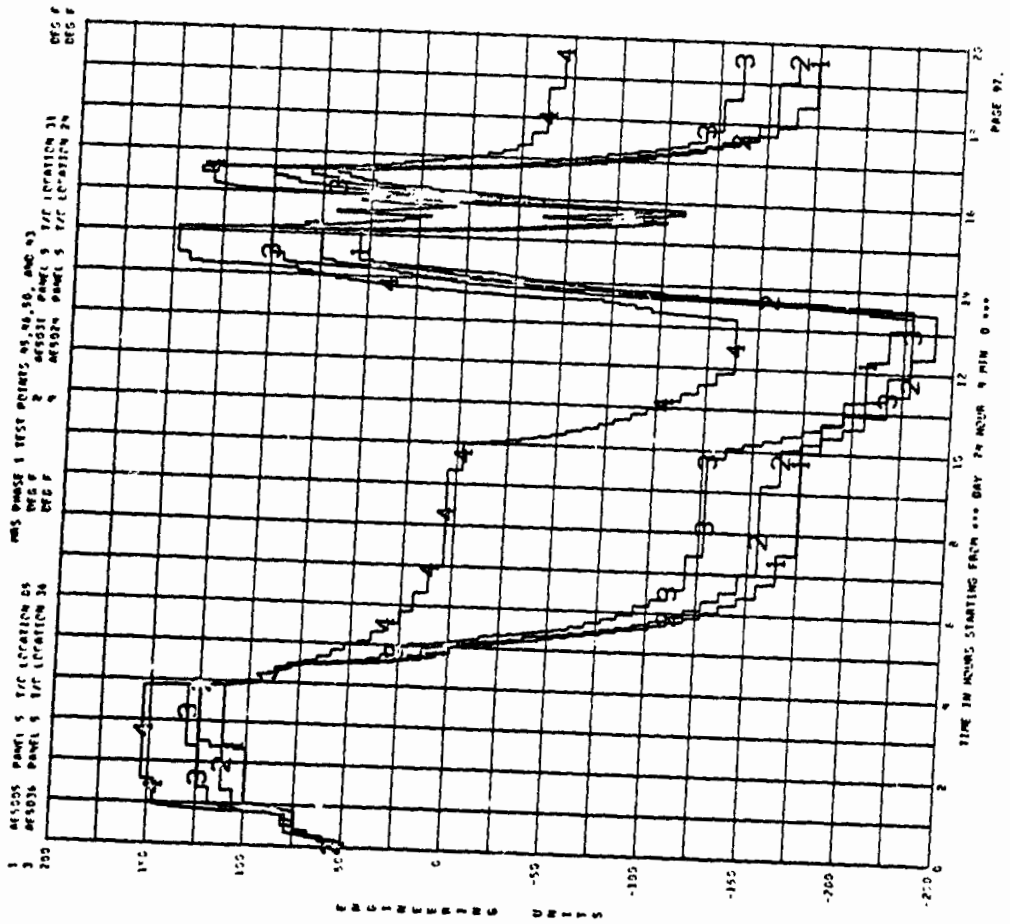


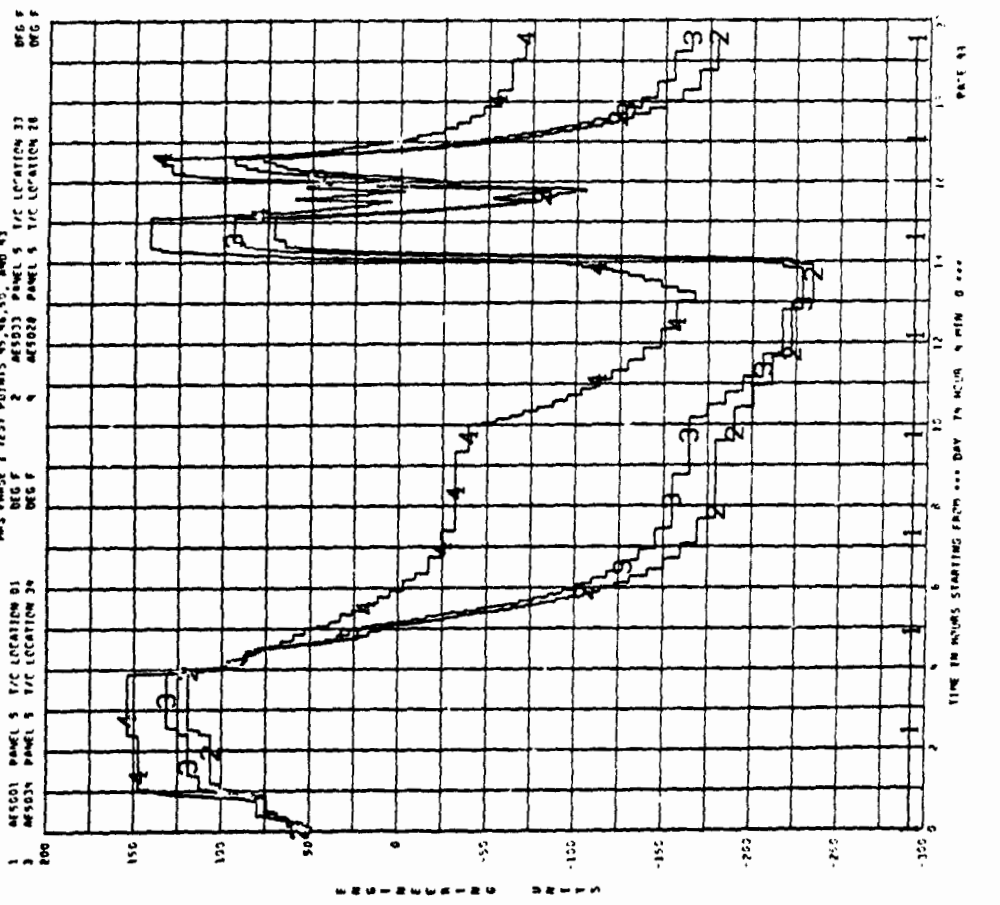
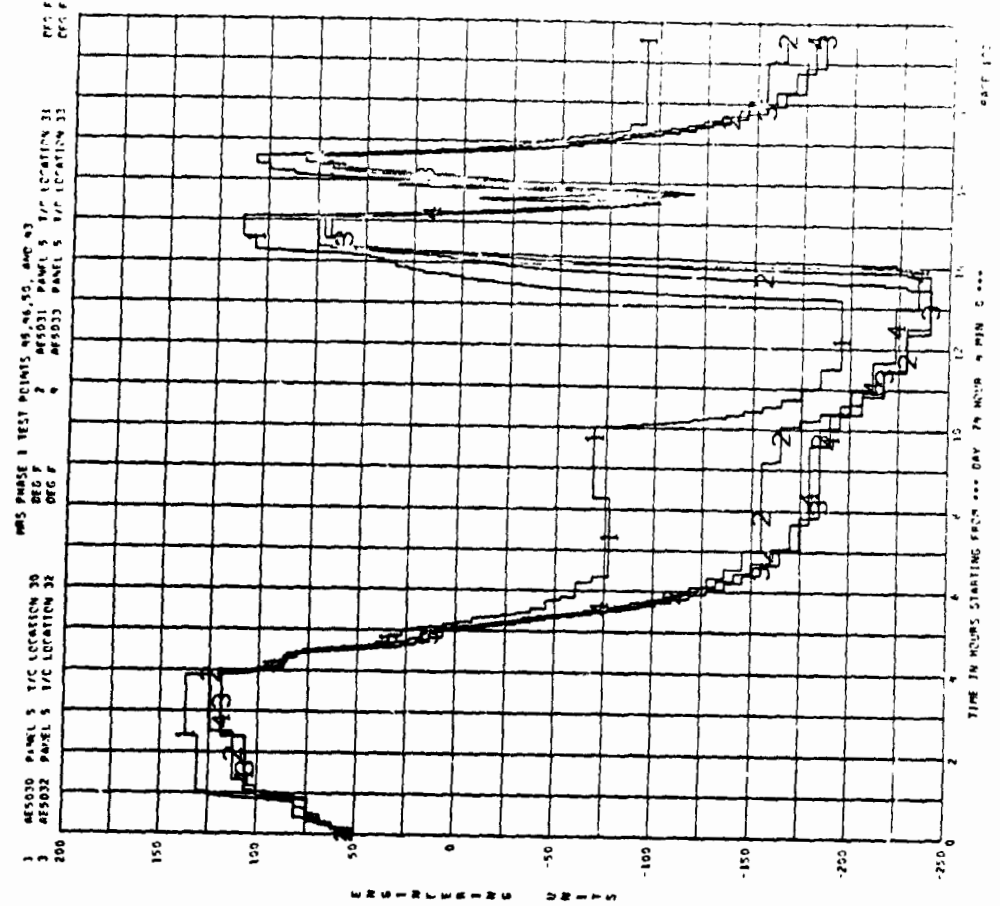
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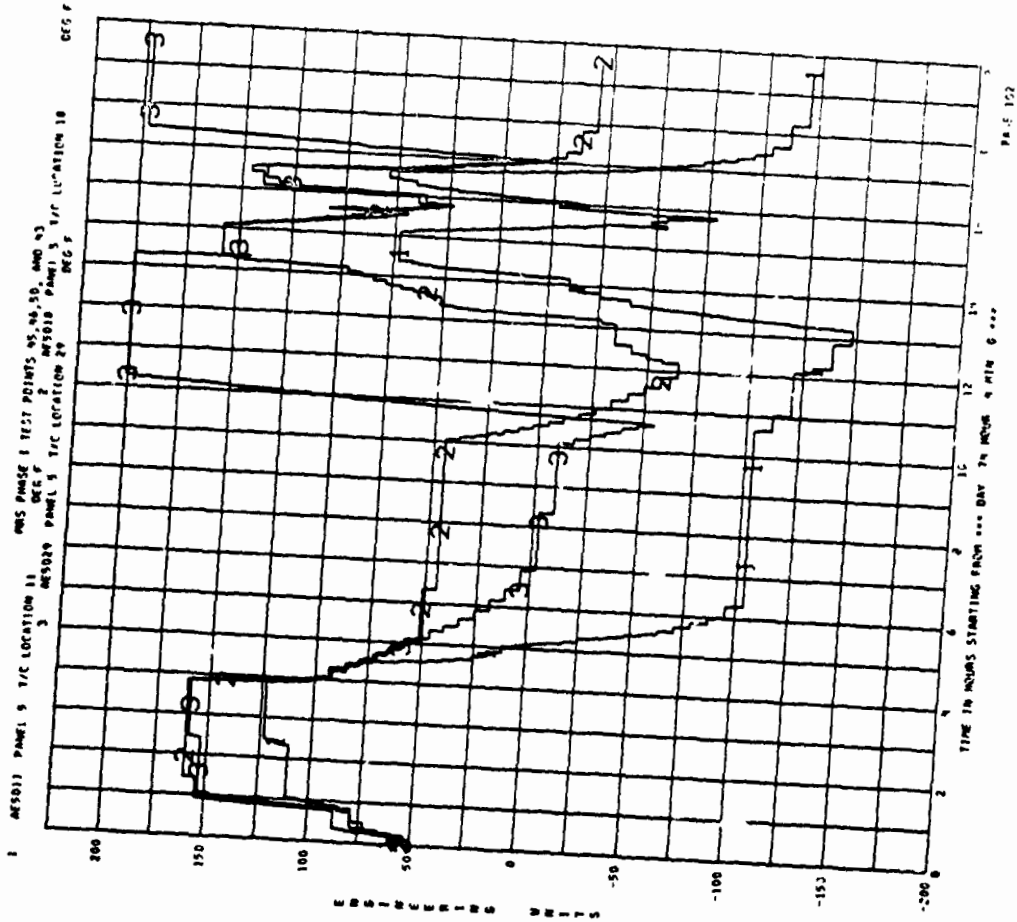
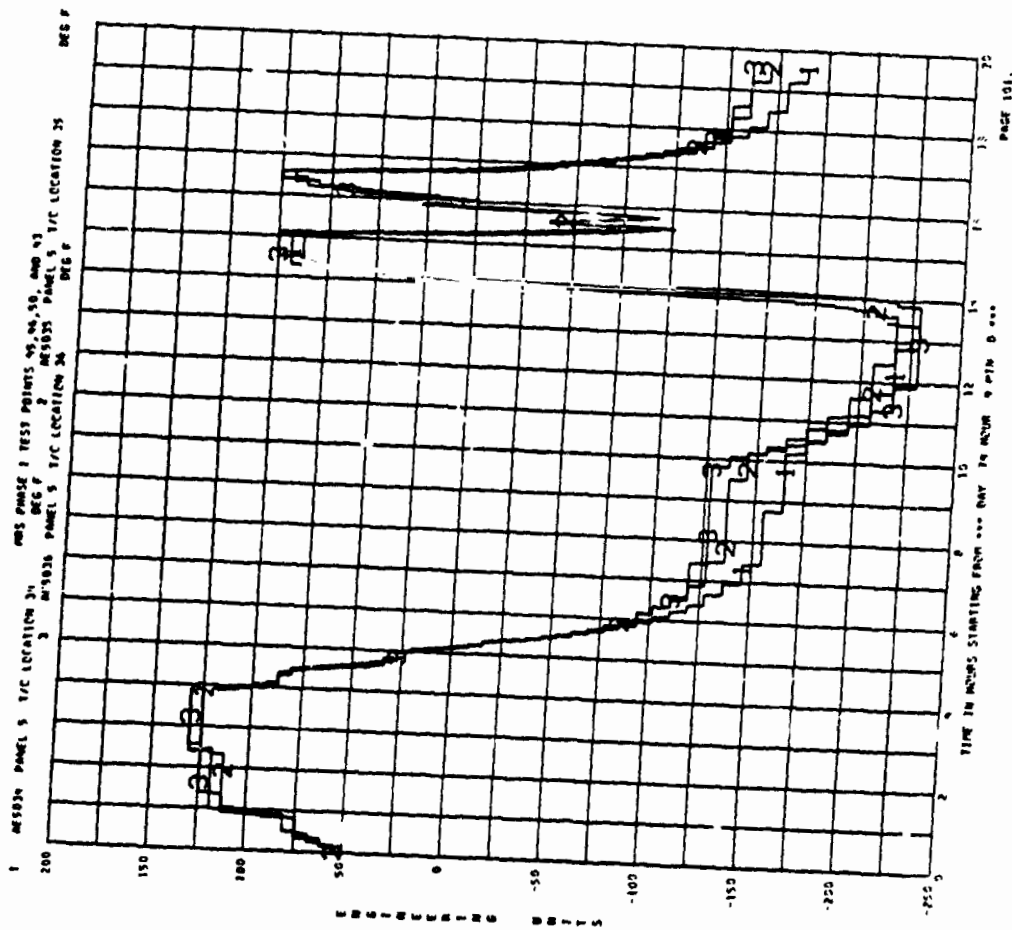
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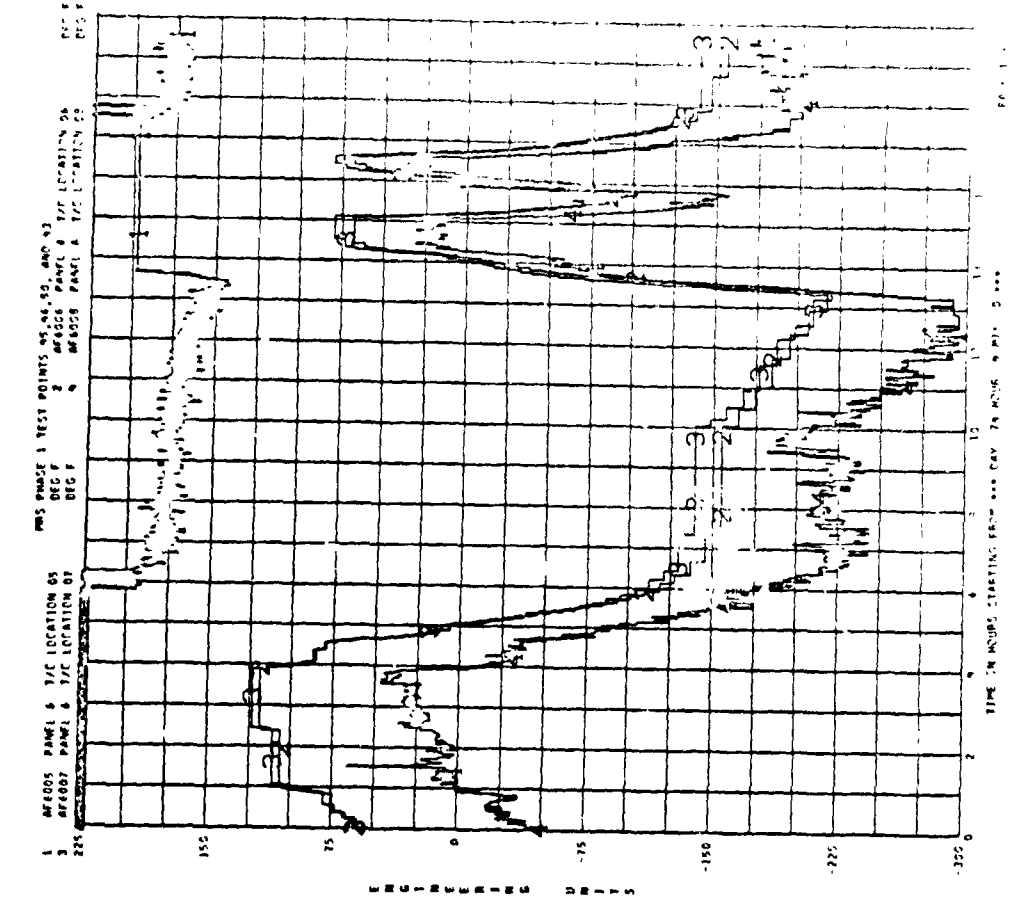
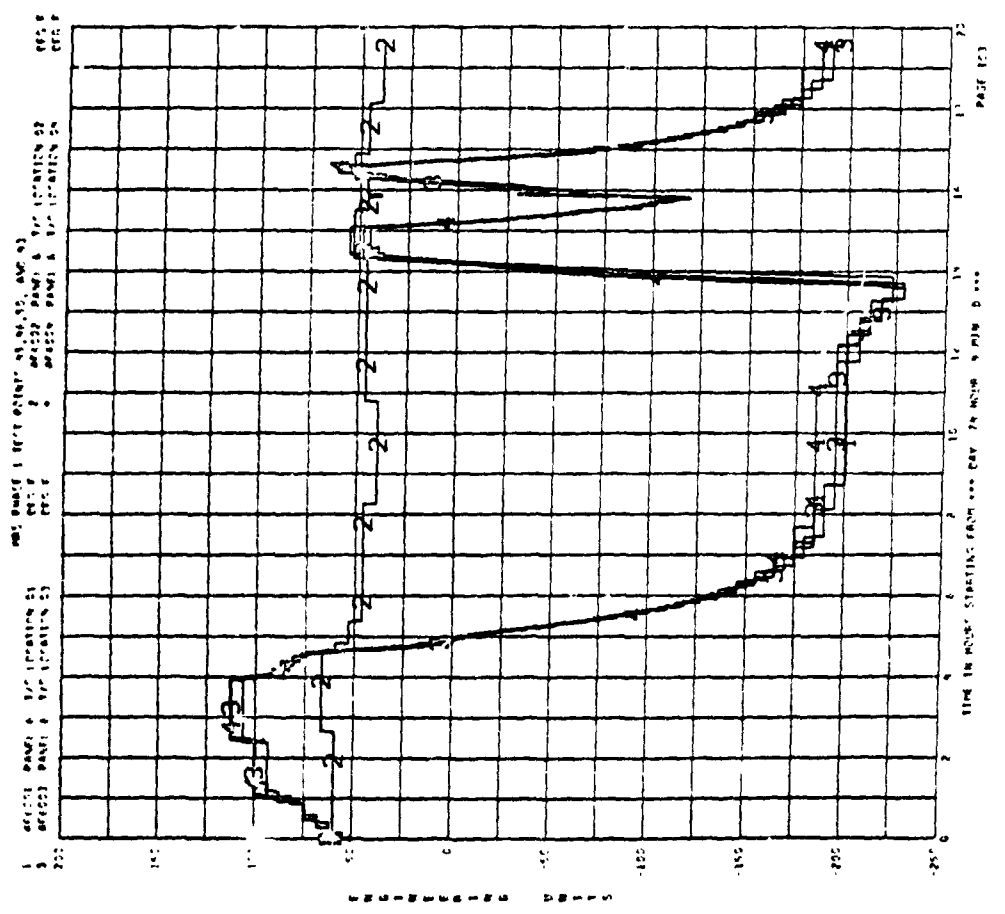


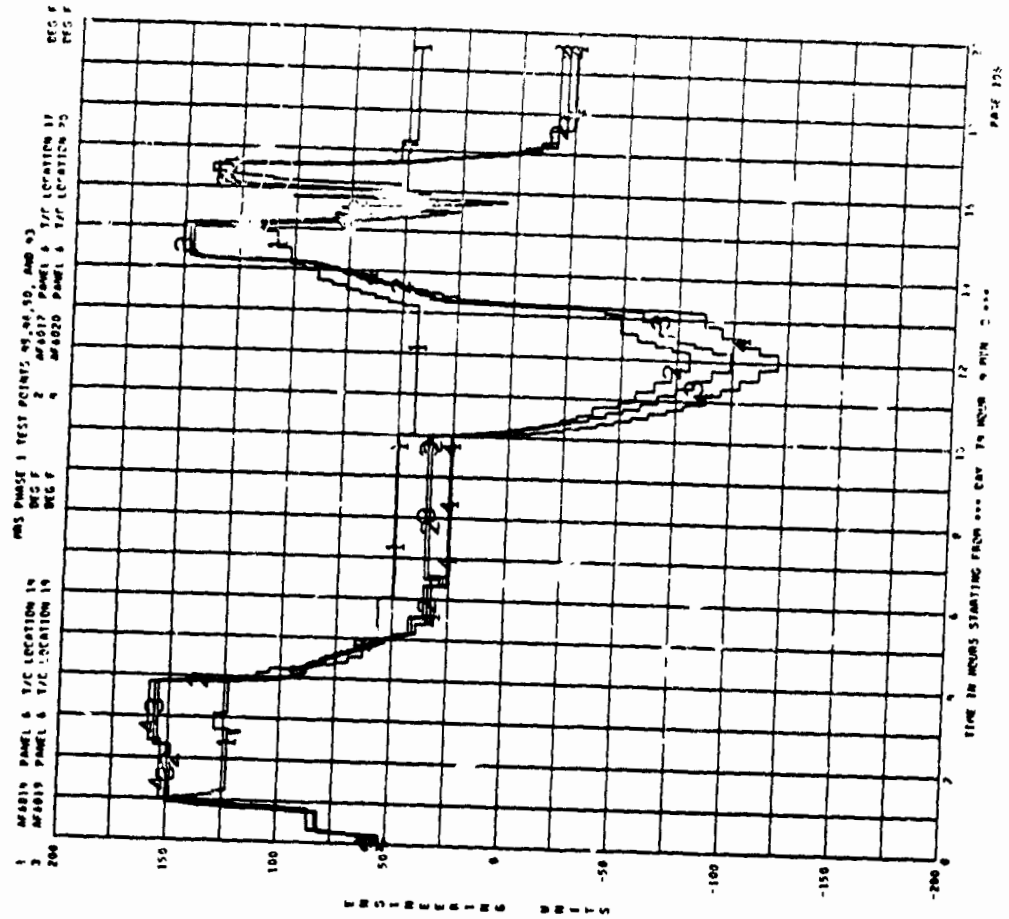
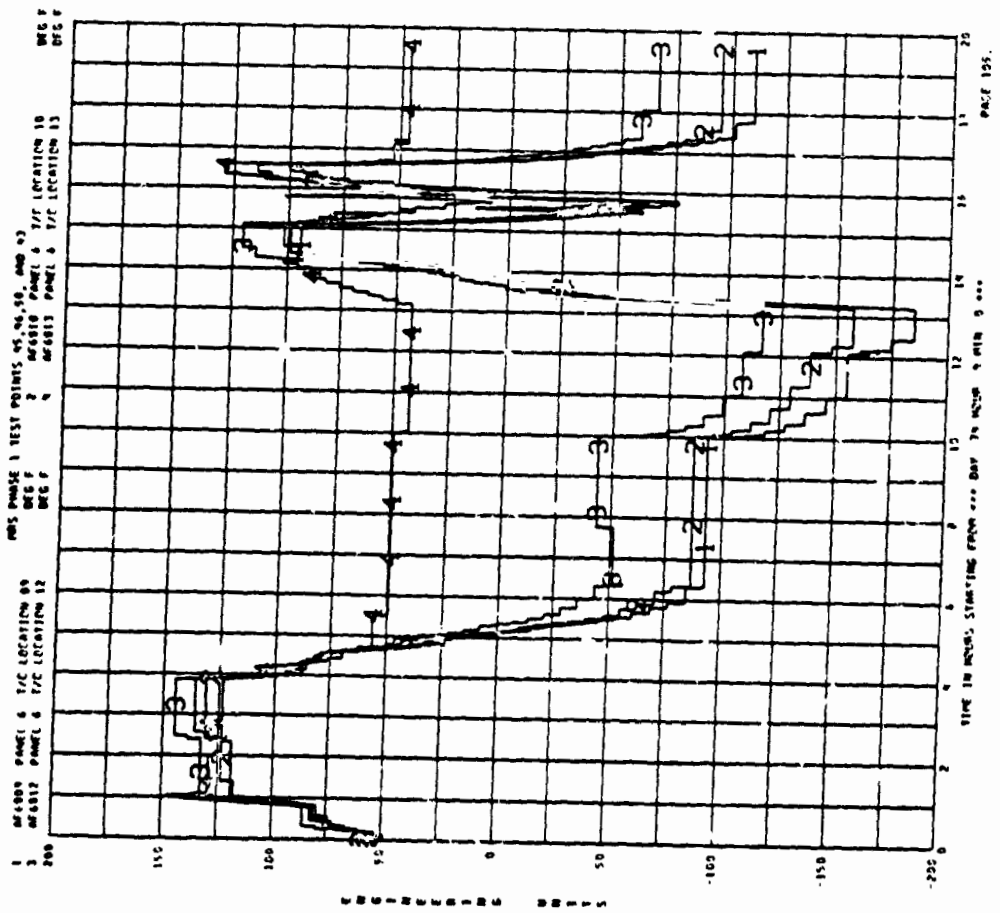


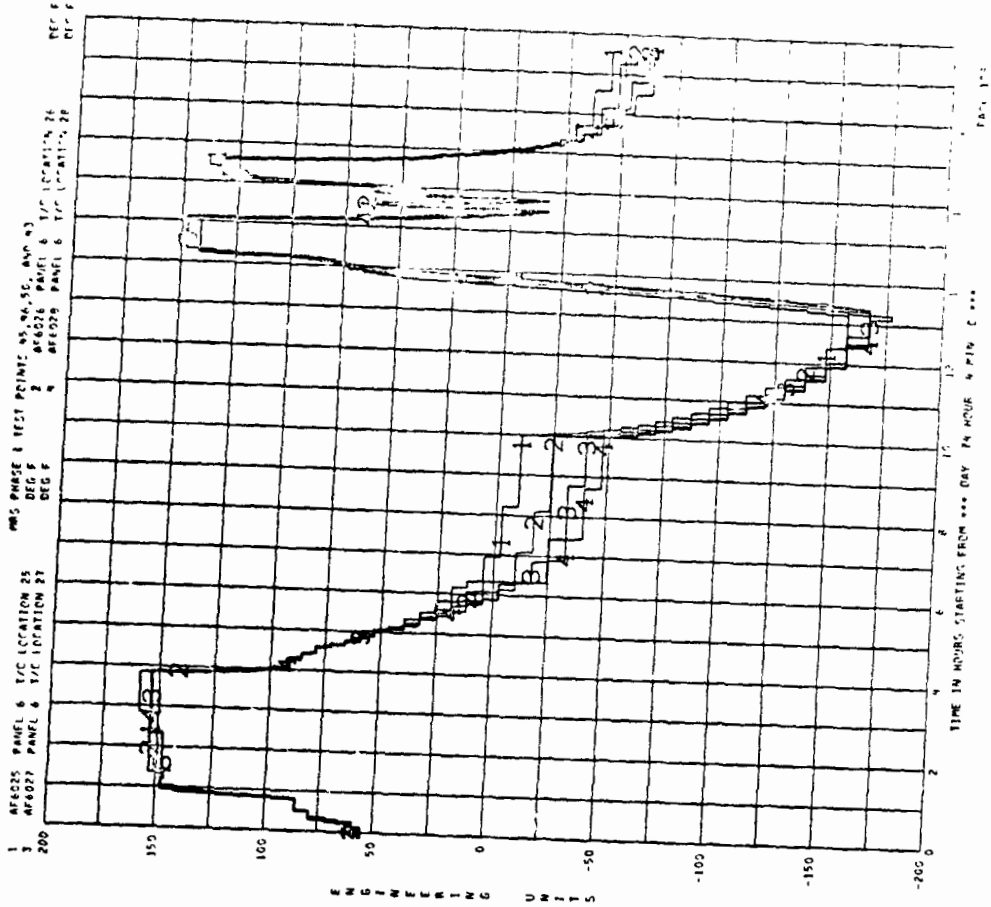
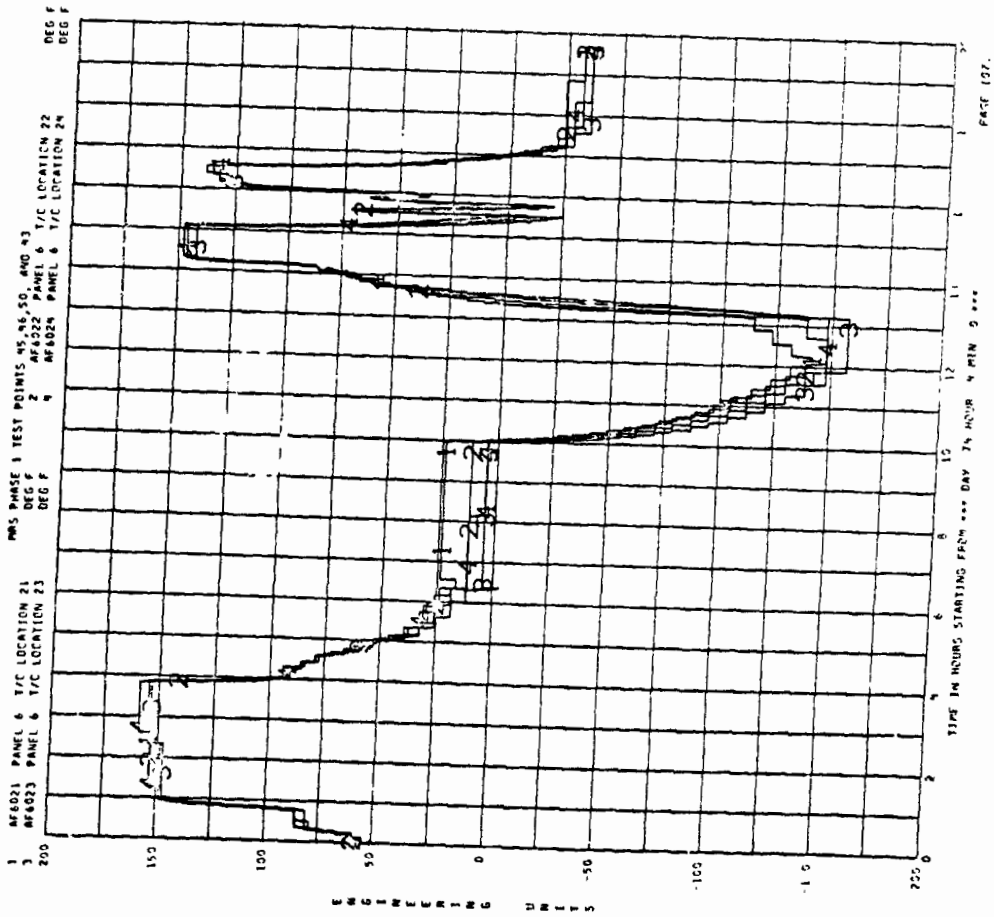




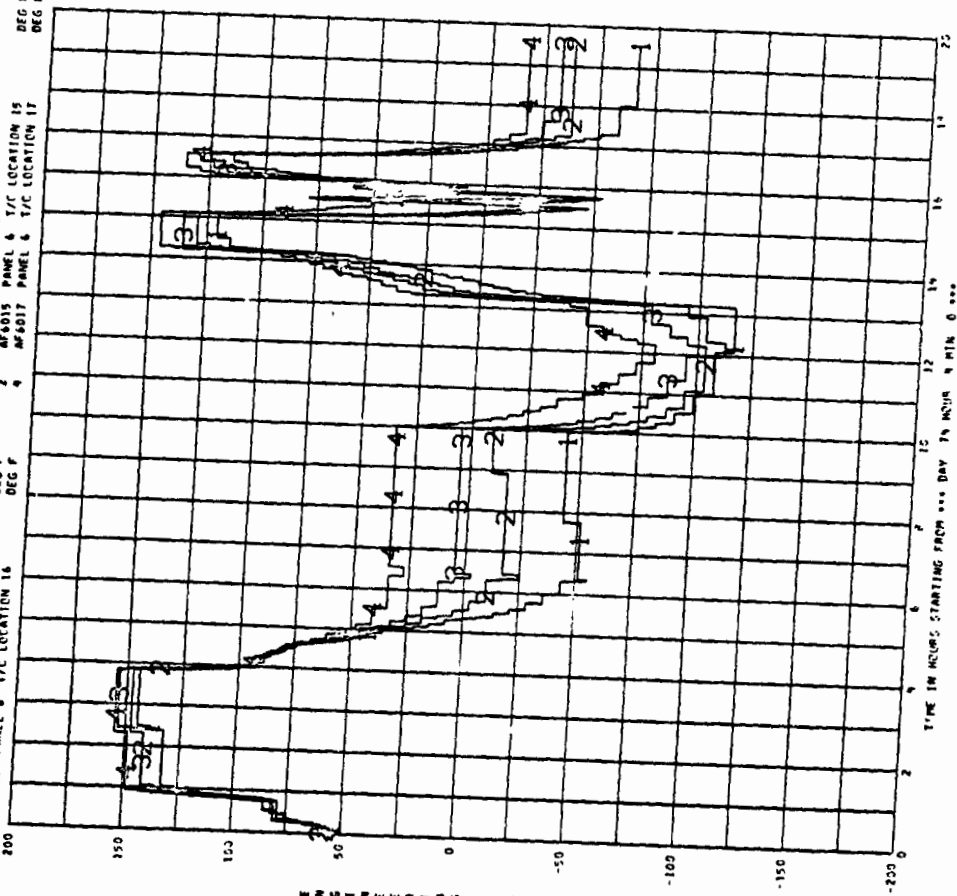




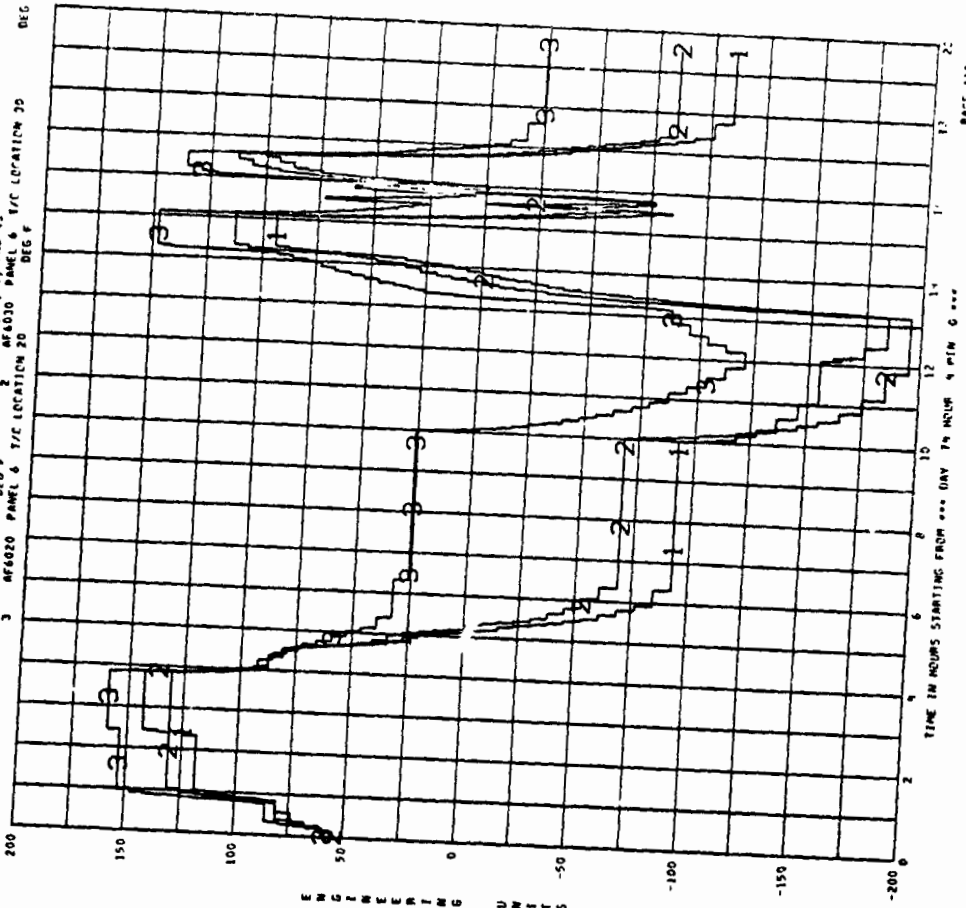


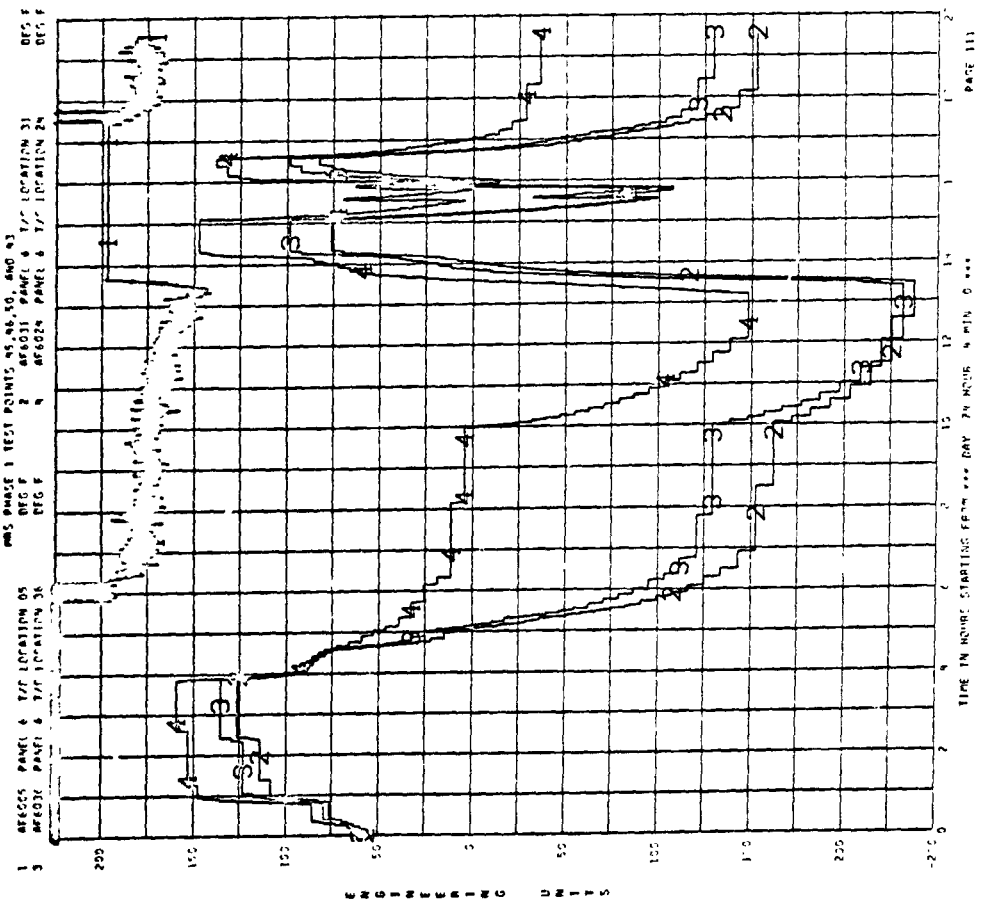
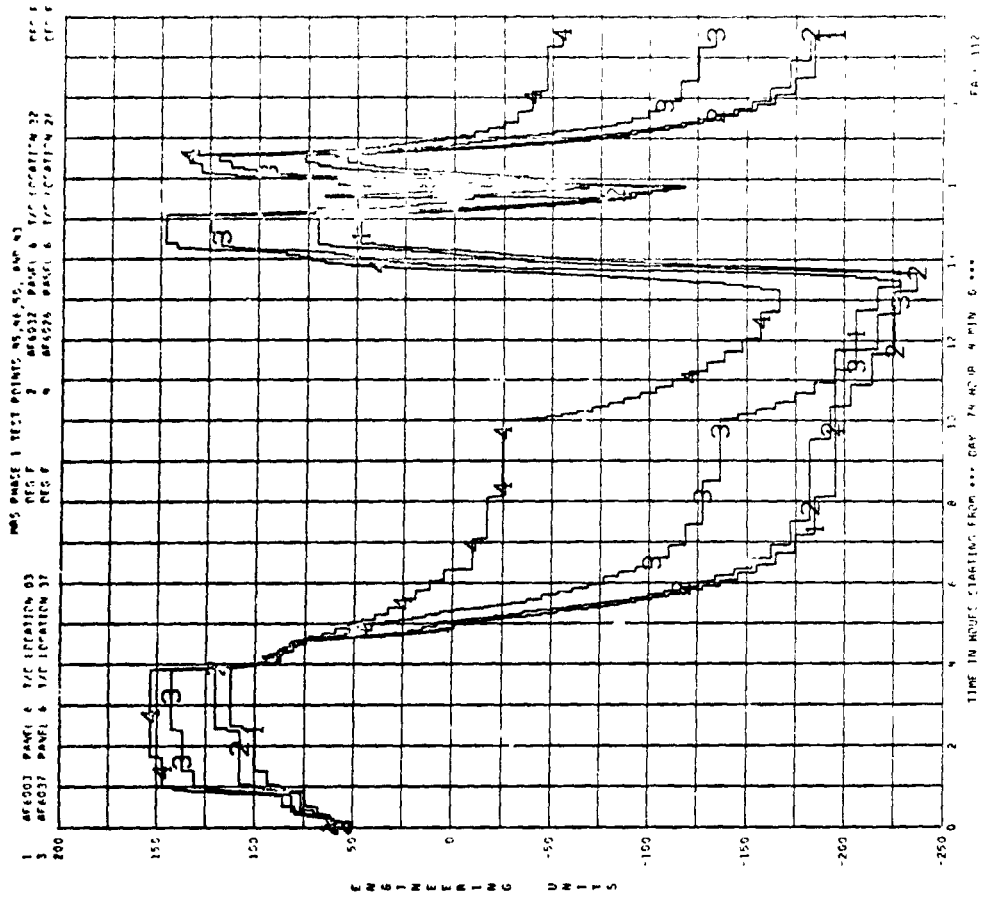


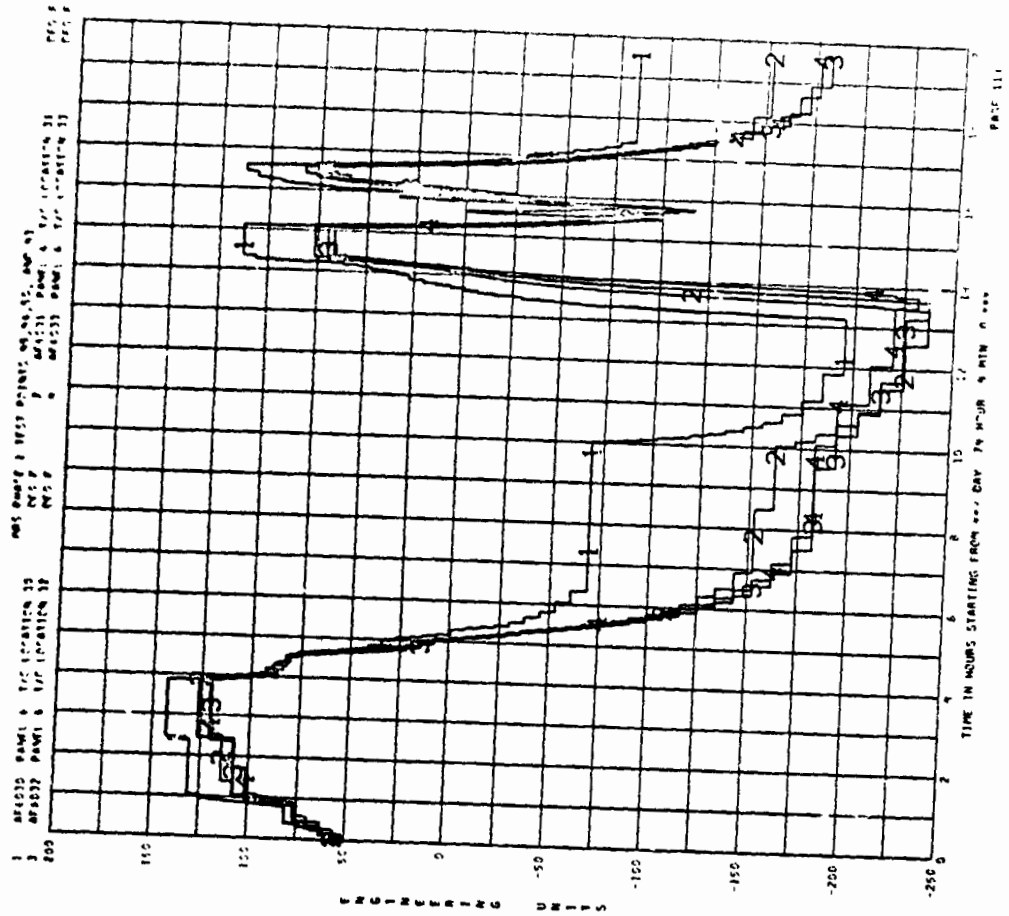
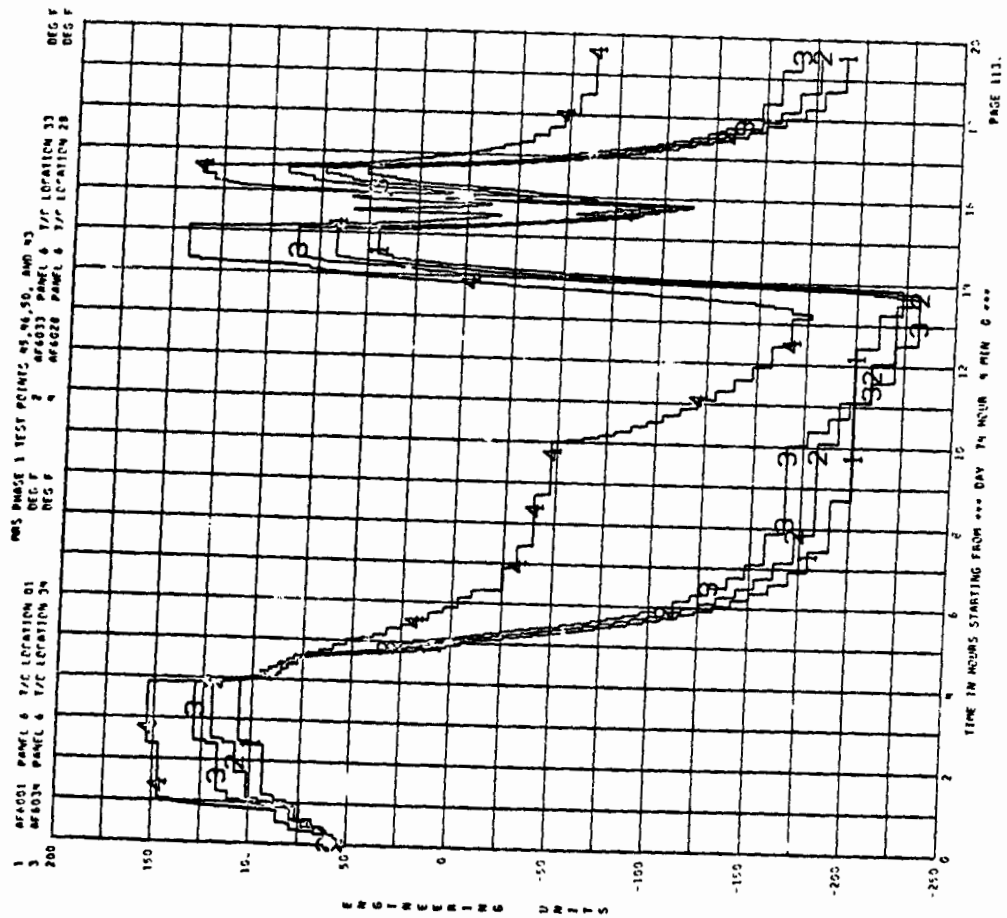
1 AF6012 PANEL 6 T/C LOCATION 12 DEG F
 3 AF6016 PANEL 6 T/C LOCATION 16 DEG F
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 MMS PHASE 3 TEST POINTS 45, 46, 50, AND 43
 2 AF6015 PANEL 6 T/C LOCATION 15 DEG F
 4 AF6017 PANEL 6 T/C LOCATION 17 DEG F



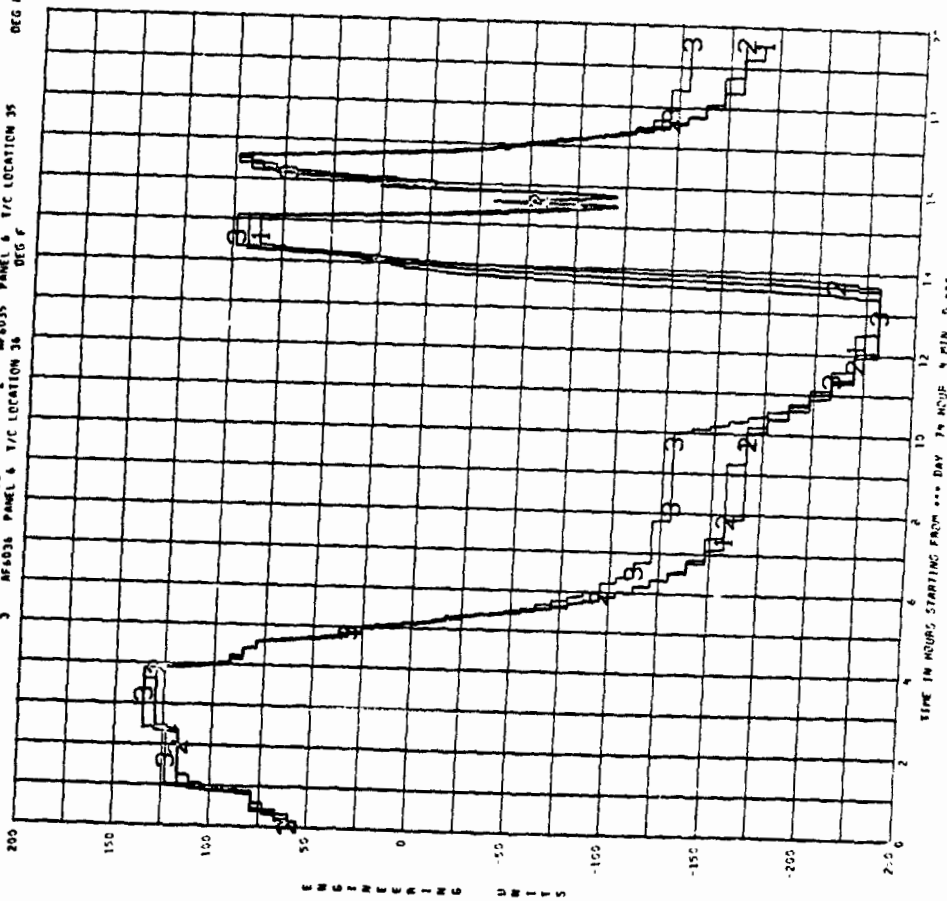
1 AF6009 PANEL 6 T/C LOCATION 09 DEG F
 3 AF6020 PANEL 6 T/C LOCATION 20 DEG F
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 MMS PHASE 3 TEST POINTS 45, 46, 50, AND 43
 2 AF6020 PANEL 6 T/C LOCATION 20 DEG F
 2 AF6020 PANEL 6 T/C LOCATION 20 DEG F





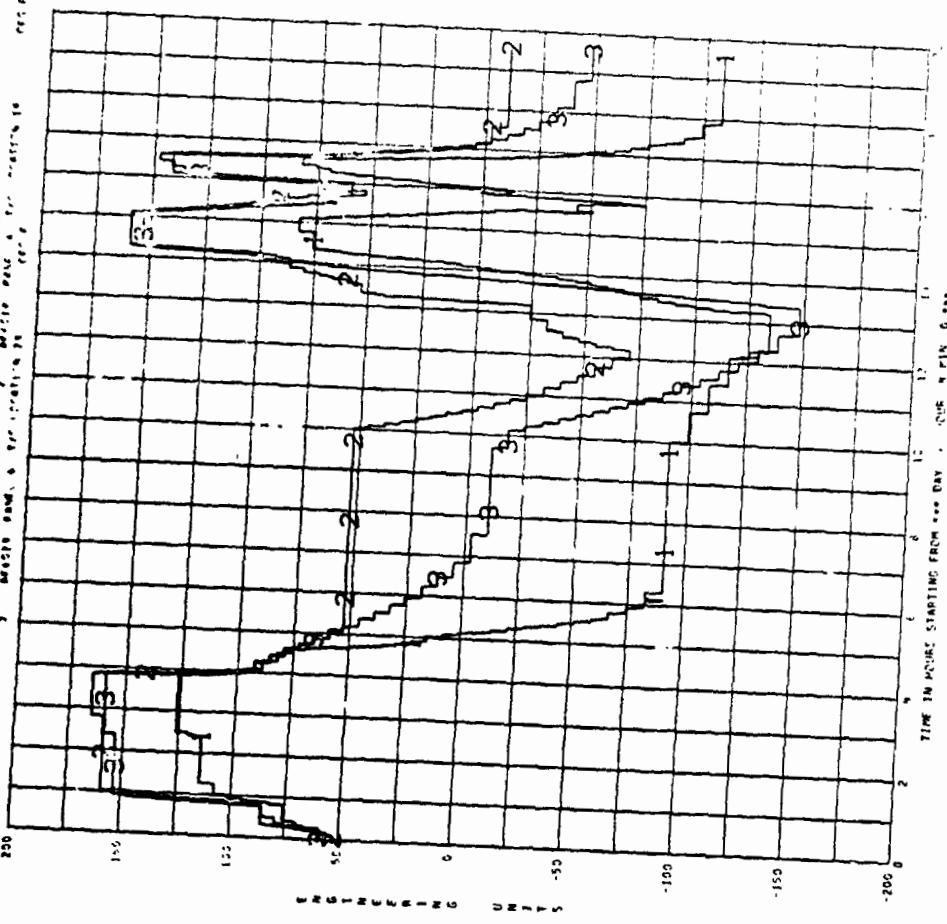


1 AF603N PANEL 6 T/C LOCATION 34 RMS PHASE 1 TEST POINTS NS, NS, 50, AND NS DEG F
 2 AF603S PANEL 6 T/C LOCATION 35 DEG F
 3 AF603B PANEL 6 T/C LOCATION 36 DEG F

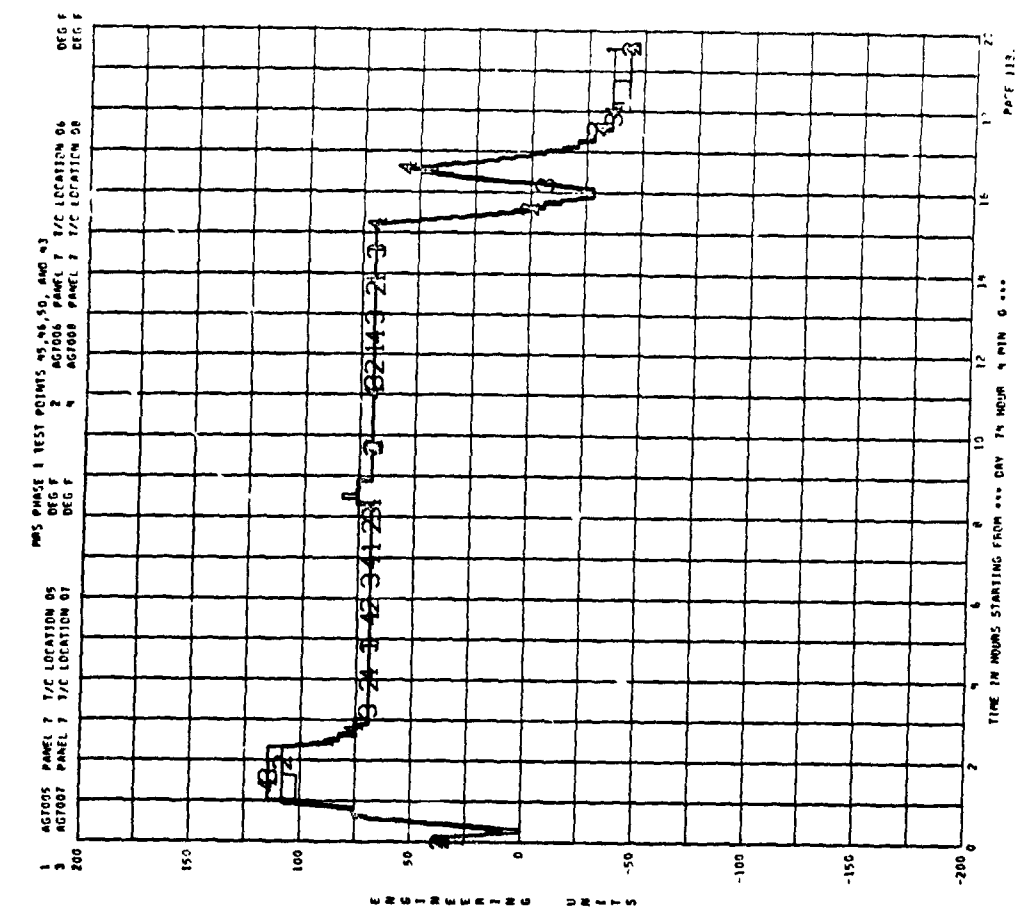
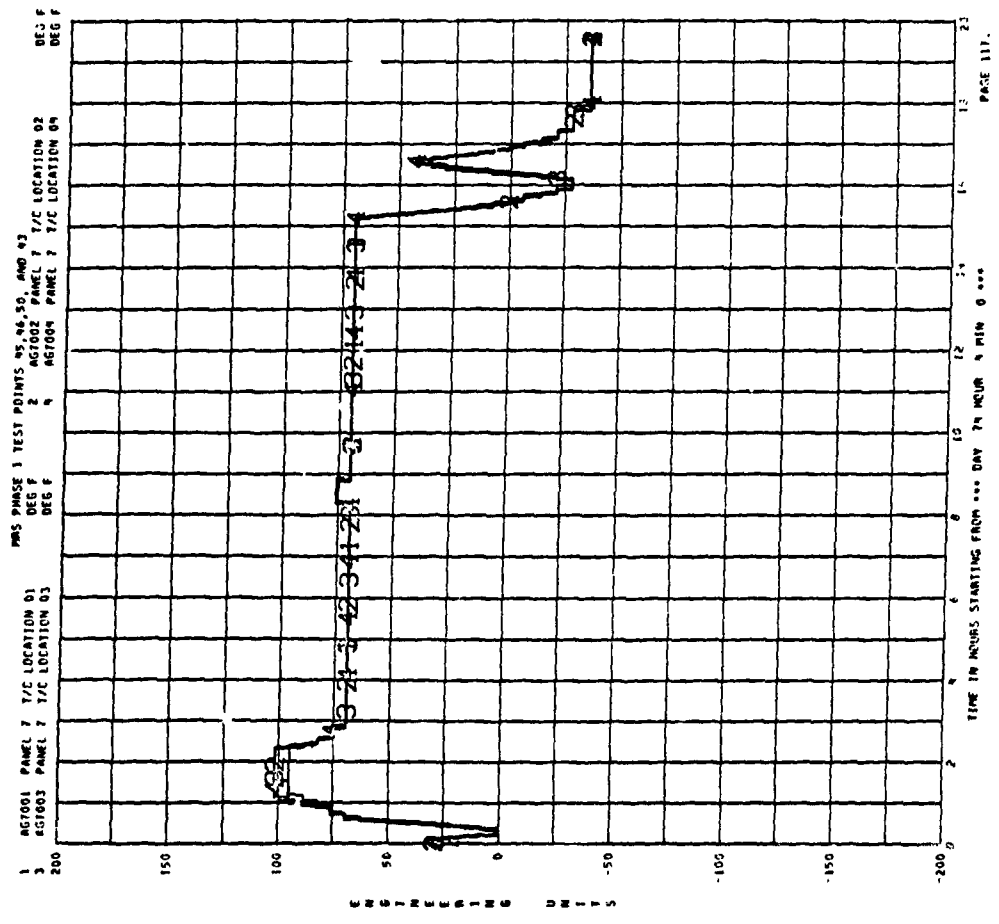


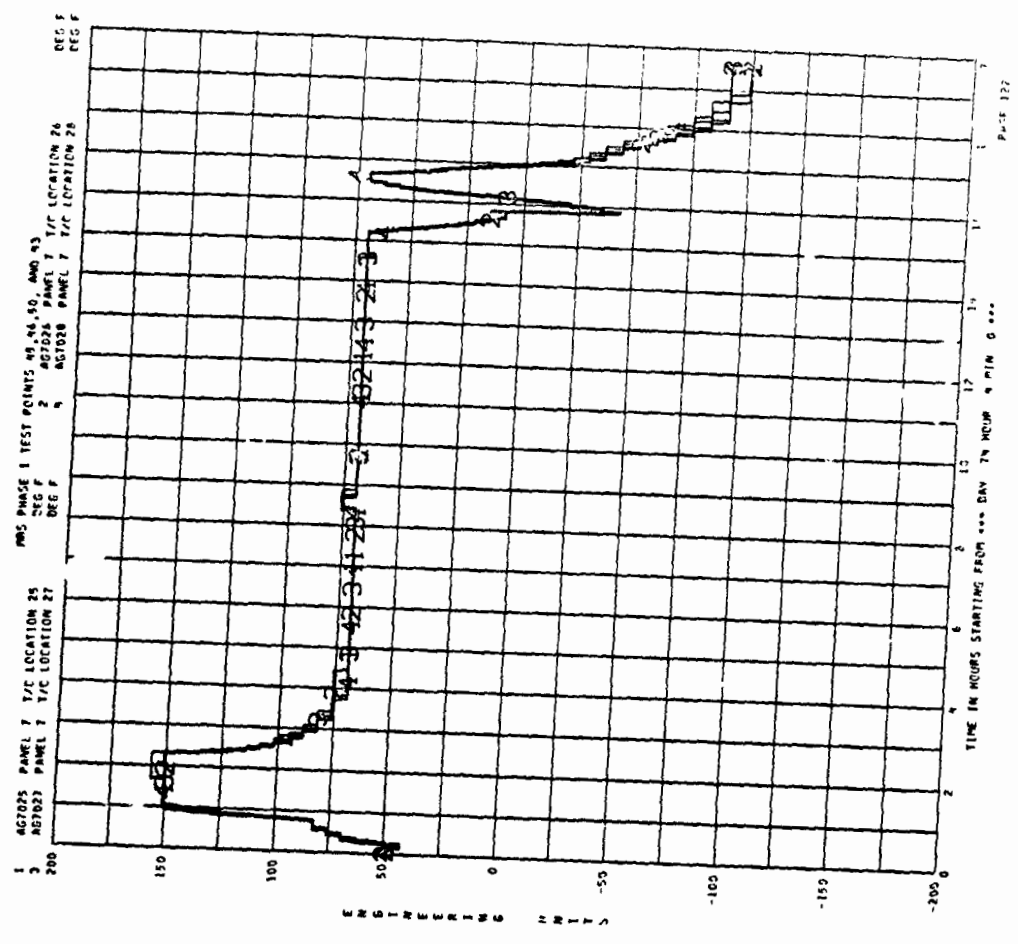
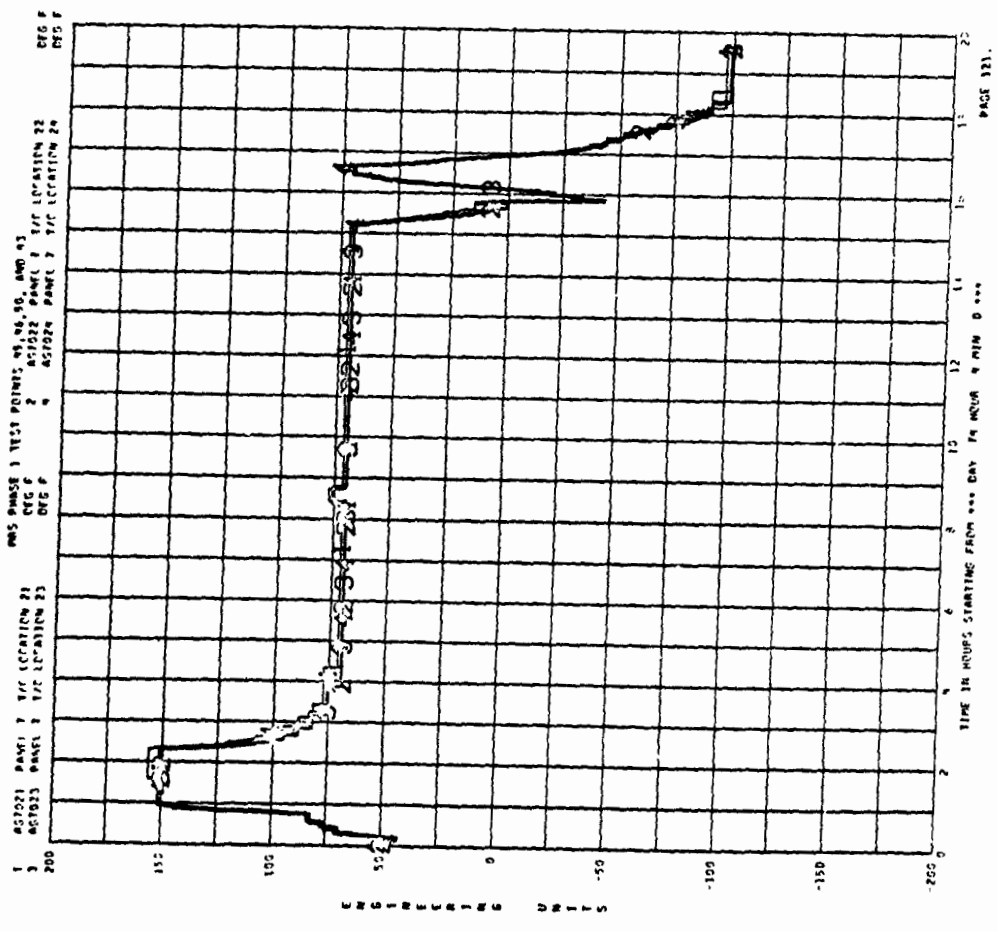
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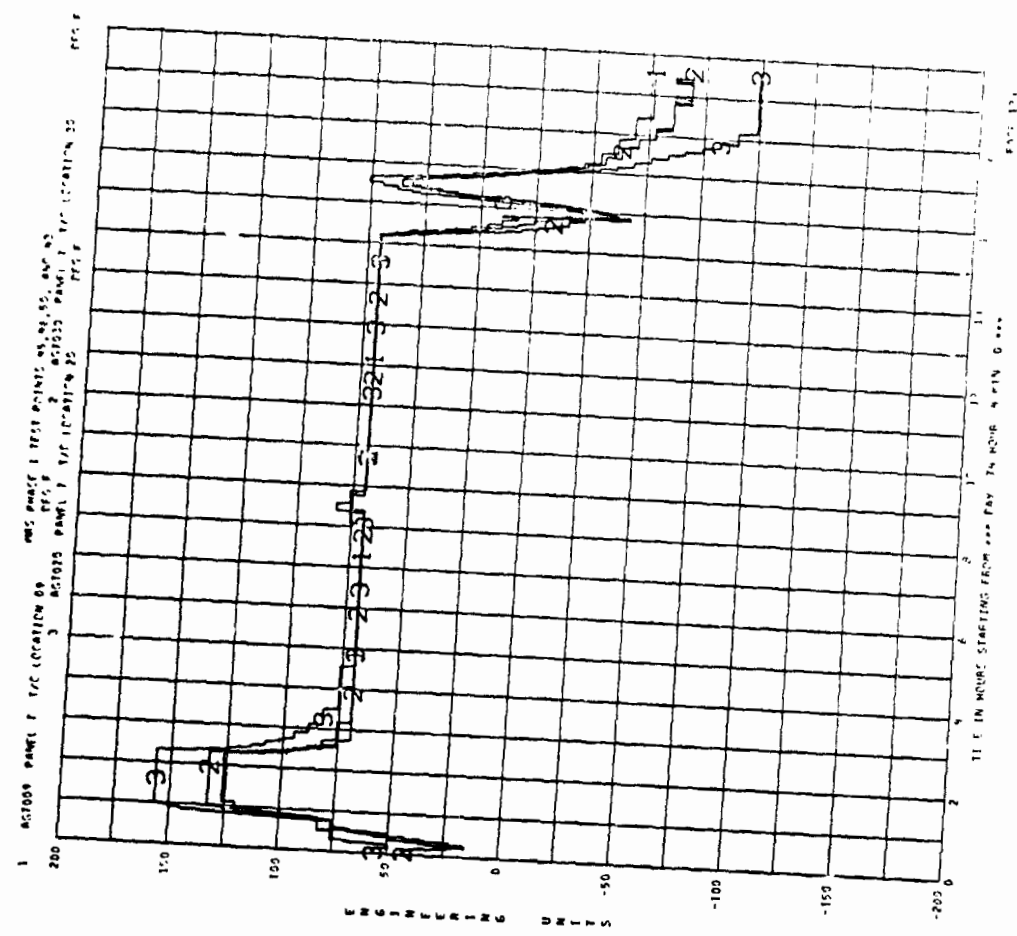
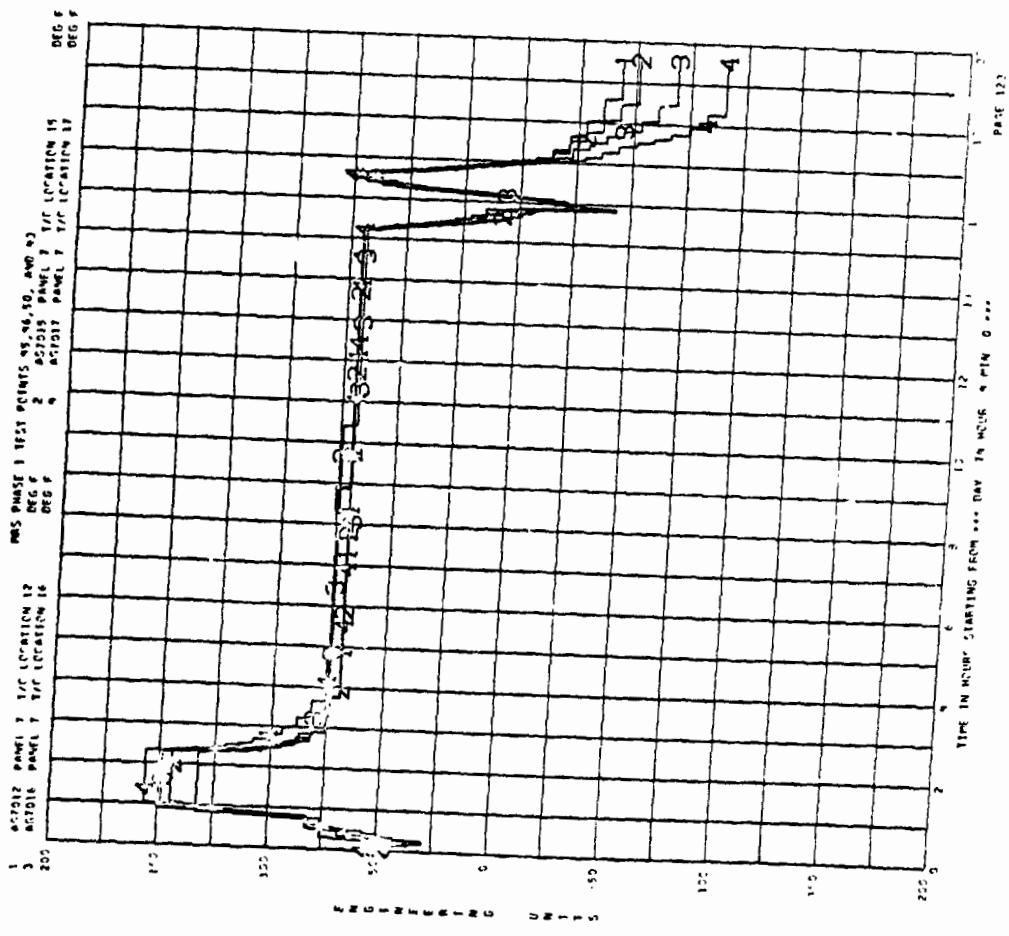
1 AF603B PANEL 6 T/C LOCATION 31 RMS PHASE 1 TEST POINTS NS, NS, 50, AND NS DEG F
 2 AF603S PANEL 6 T/C LOCATION 35 DEG F
 3 AF603B PANEL 6 T/C LOCATION 36 DEG F



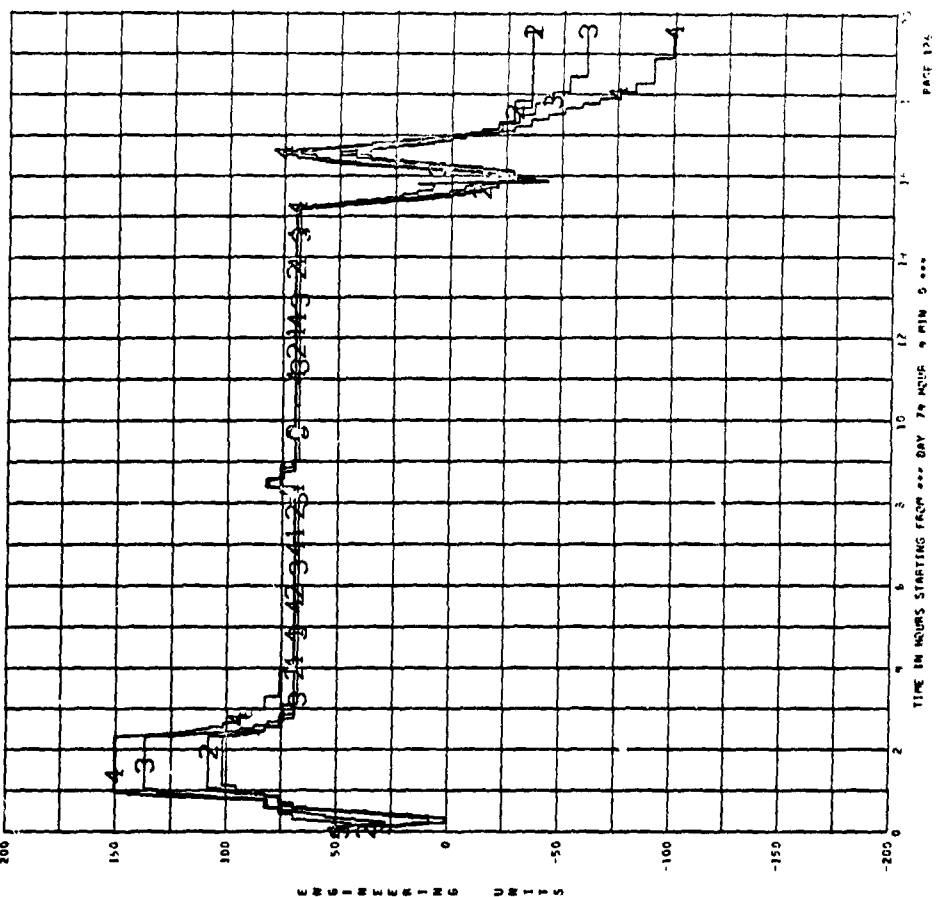
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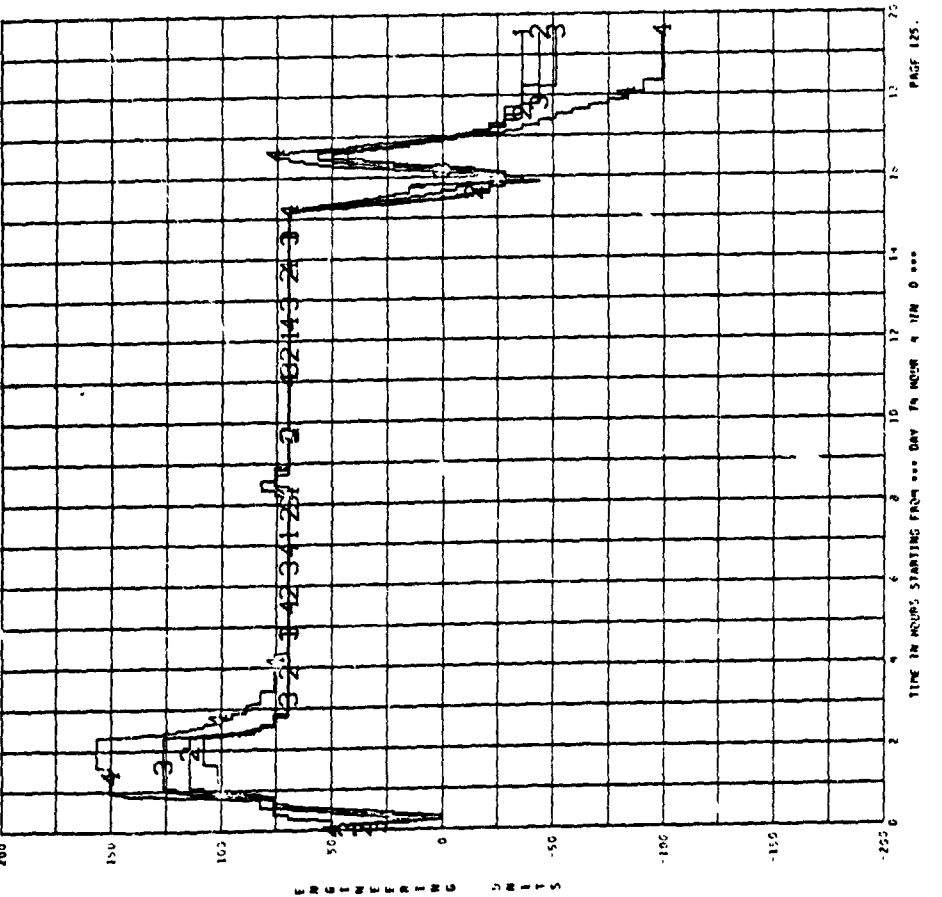




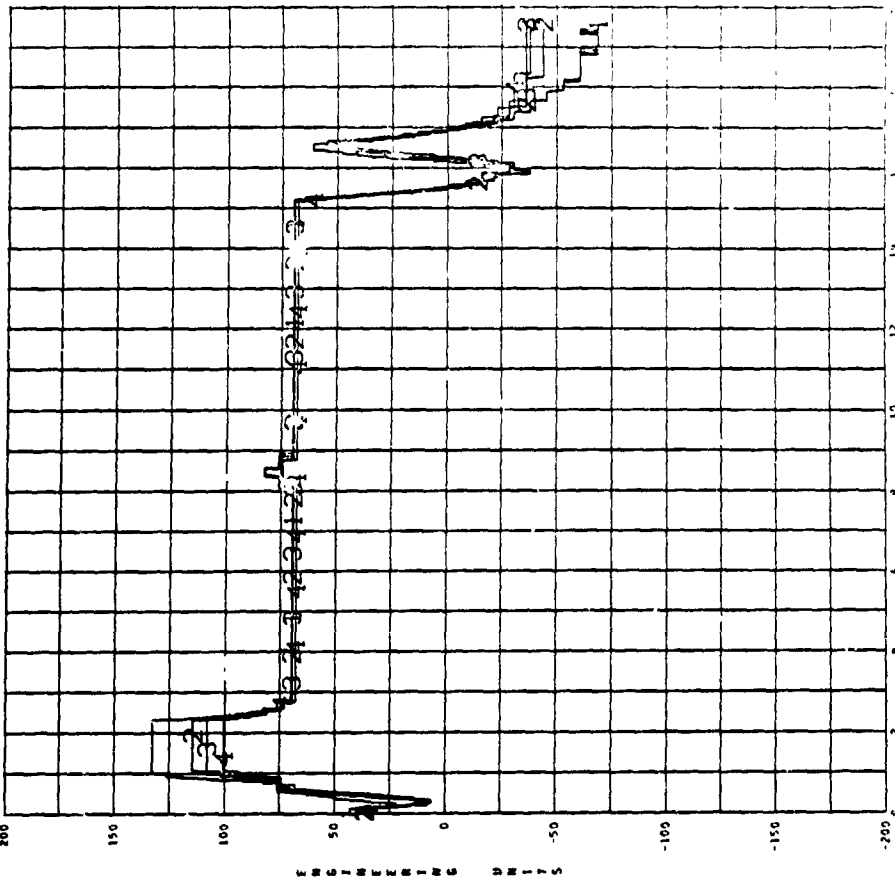
PMS PHASE I TEST POINTS 45, 46, 50, AND 93
 DEG F
 1 AG7003 PANEL 7 T/C LOCATION 03
 2 AG7032 PANEL 7 T/C LOCATION 32
 3 AG7037 PANEL 7 T/C LOCATION 26
 4 AG7028 PANEL 7 T/C LOCATION 26
 DEG F
 DEG F



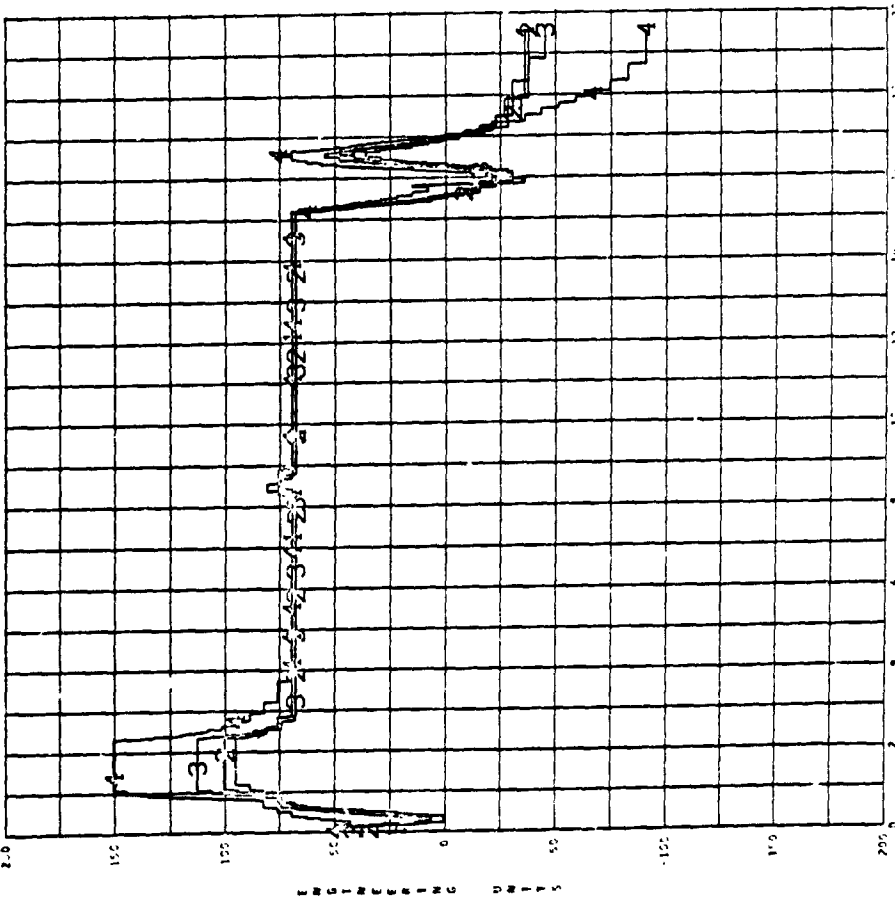
PMS PHASE I TEST POINTS 45, 46, 50, AND 93
 DEG F
 1 AG7005 PANEL 7 T/C LOCATION 03
 2 AG7031 PANEL 7 T/C LOCATION 31
 3 AG7036 PANEL 7 T/C LOCATION 34
 4 AG7024 PANEL 7 T/C LOCATION 29
 DEG F
 DEG F



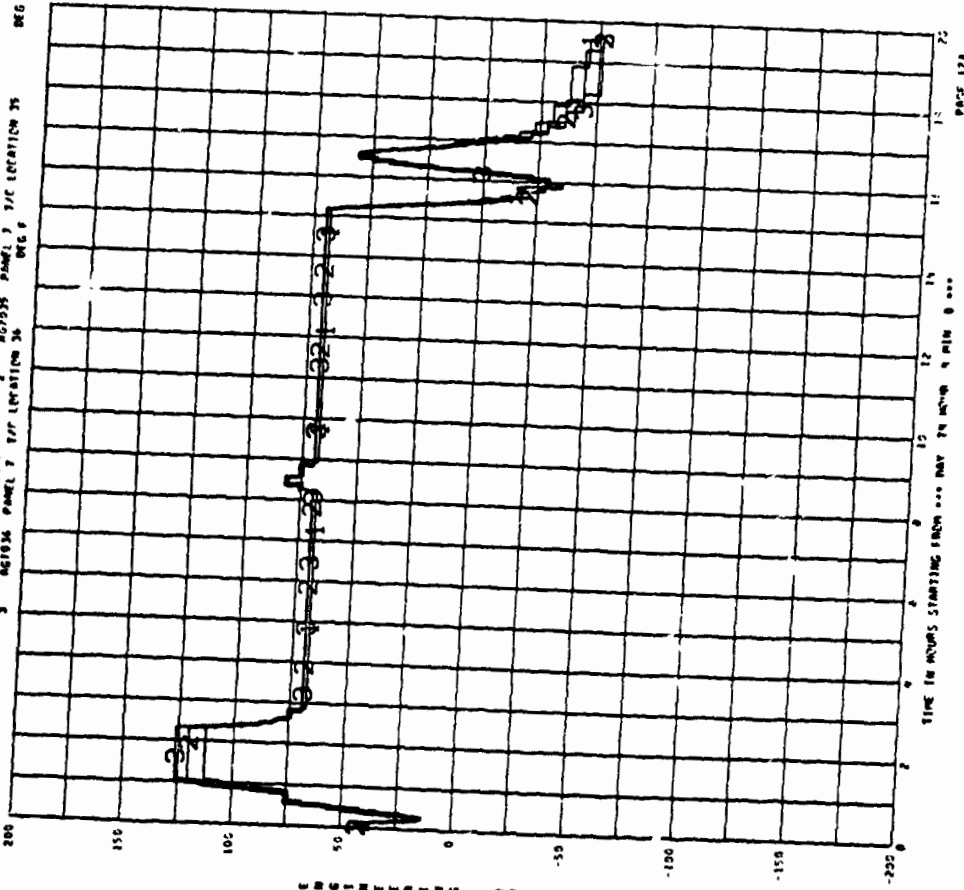
1 AG7030 PANEL 7 T/C LOCATION 30
 2 AG7031 PANEL 7 T/C LOCATION 31
 3 AG7032 PANEL 7 T/C LOCATION 32
 4 AG7033 PANEL 7 T/C LOCATION 33
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1 AG7001 PANEL 7 T/C LOCATION 01
 2 AG7002 PANEL 7 T/C LOCATION 02
 3 AG7003 PANEL 7 T/C LOCATION 03
 4 AG7004 PANEL 7 T/C LOCATION 04
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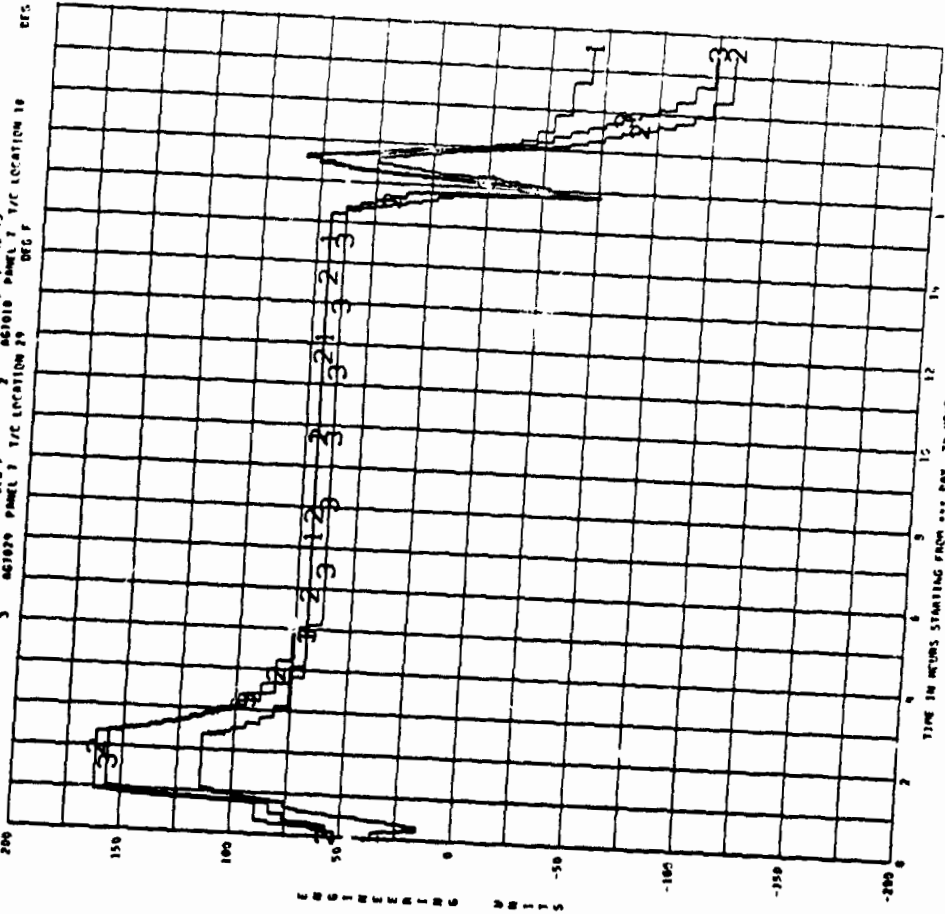


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 9 AC7034 PANEL 7 T/C LOCATION 38
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 16 AC7034 PANEL 7 T/C LOCATION 52
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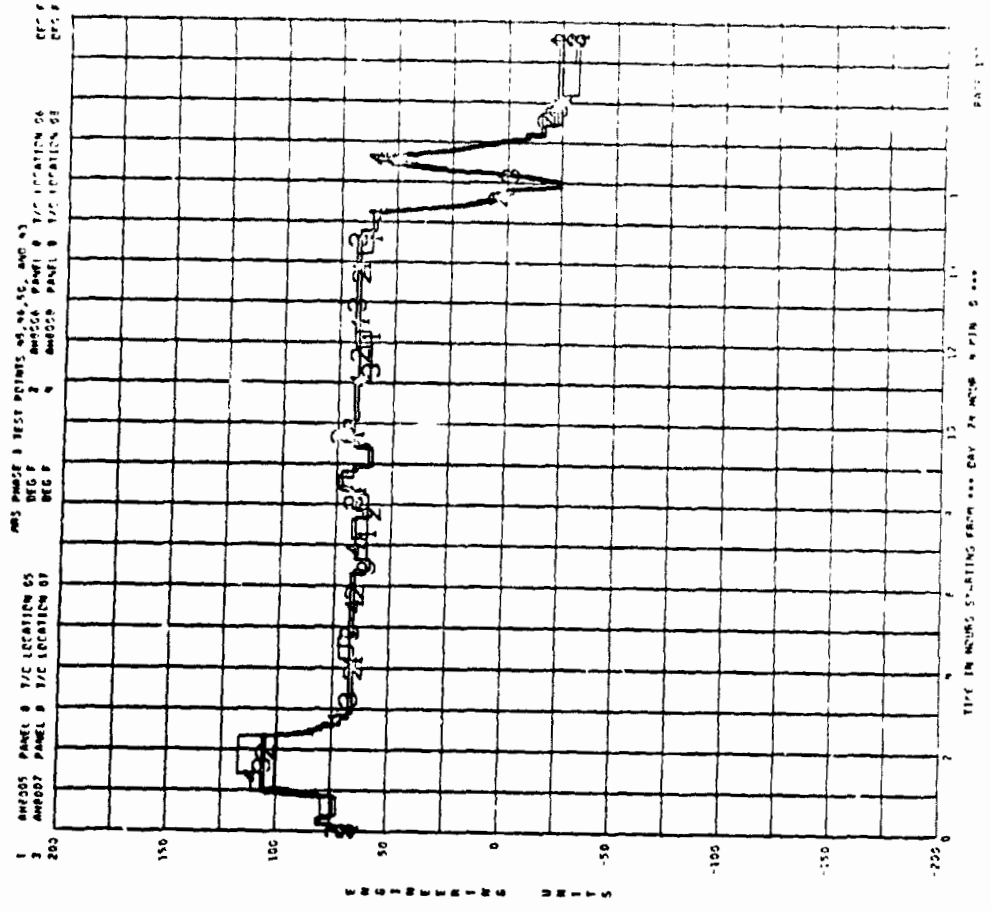
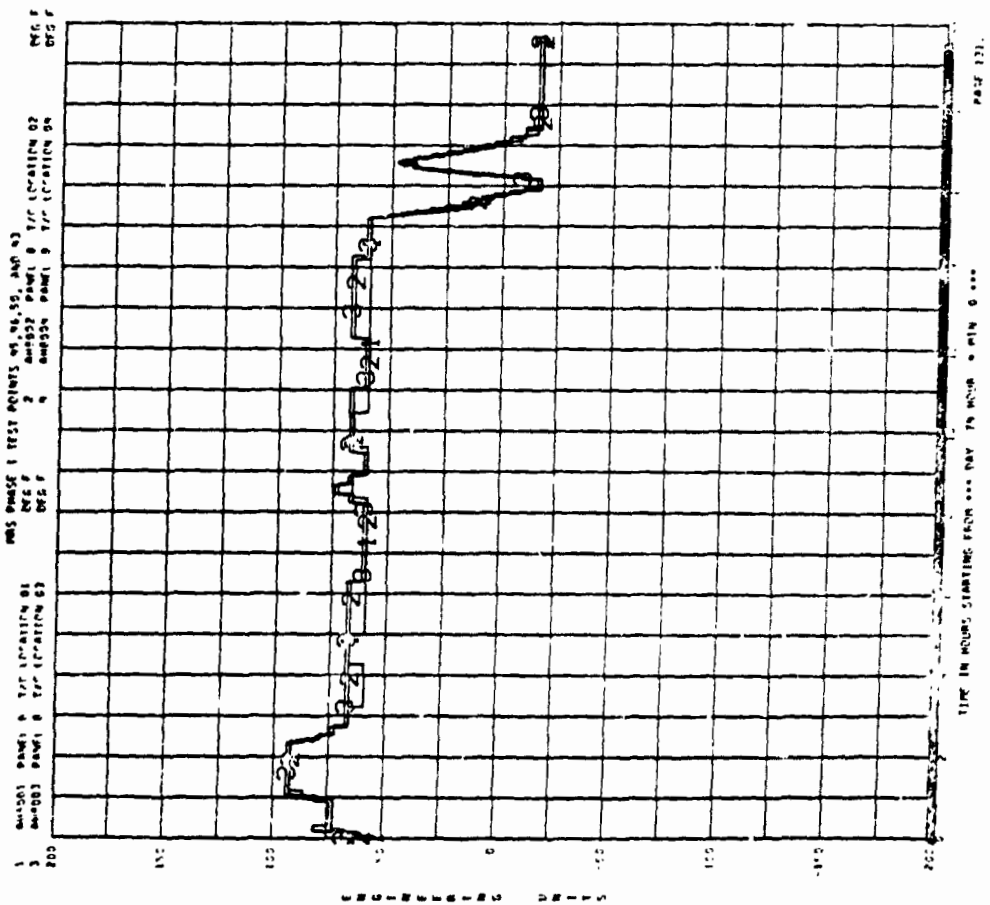


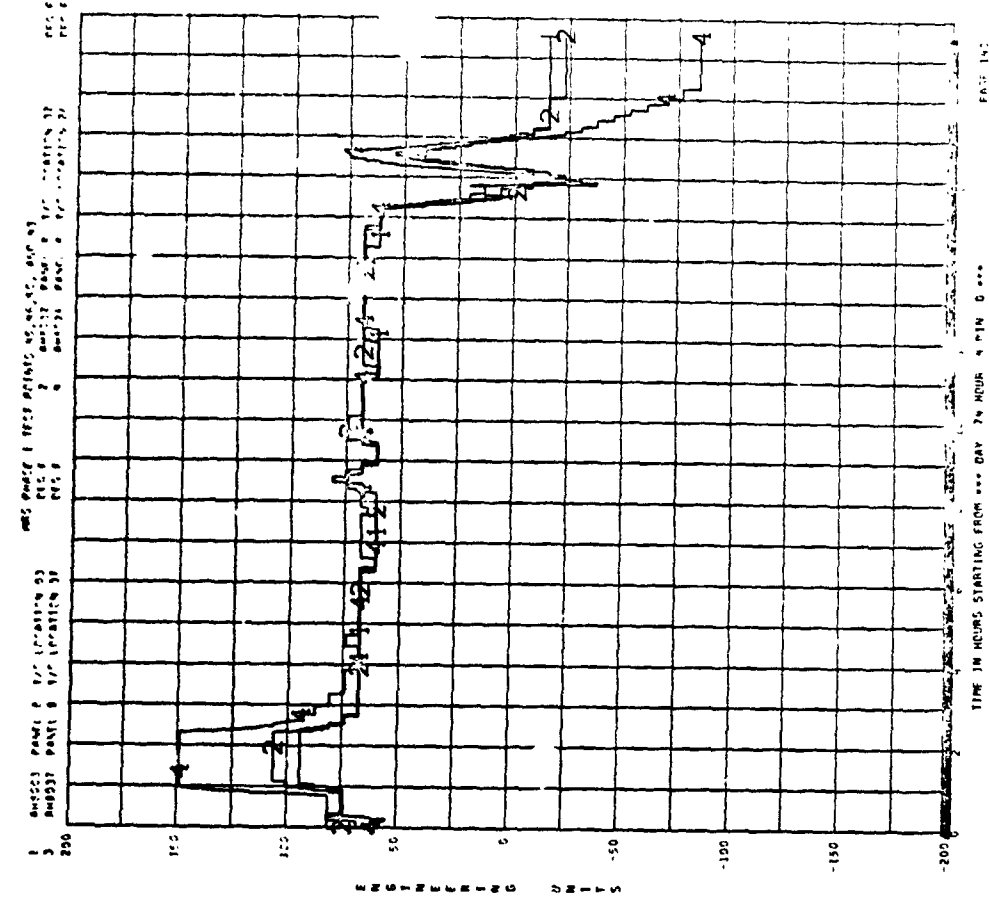
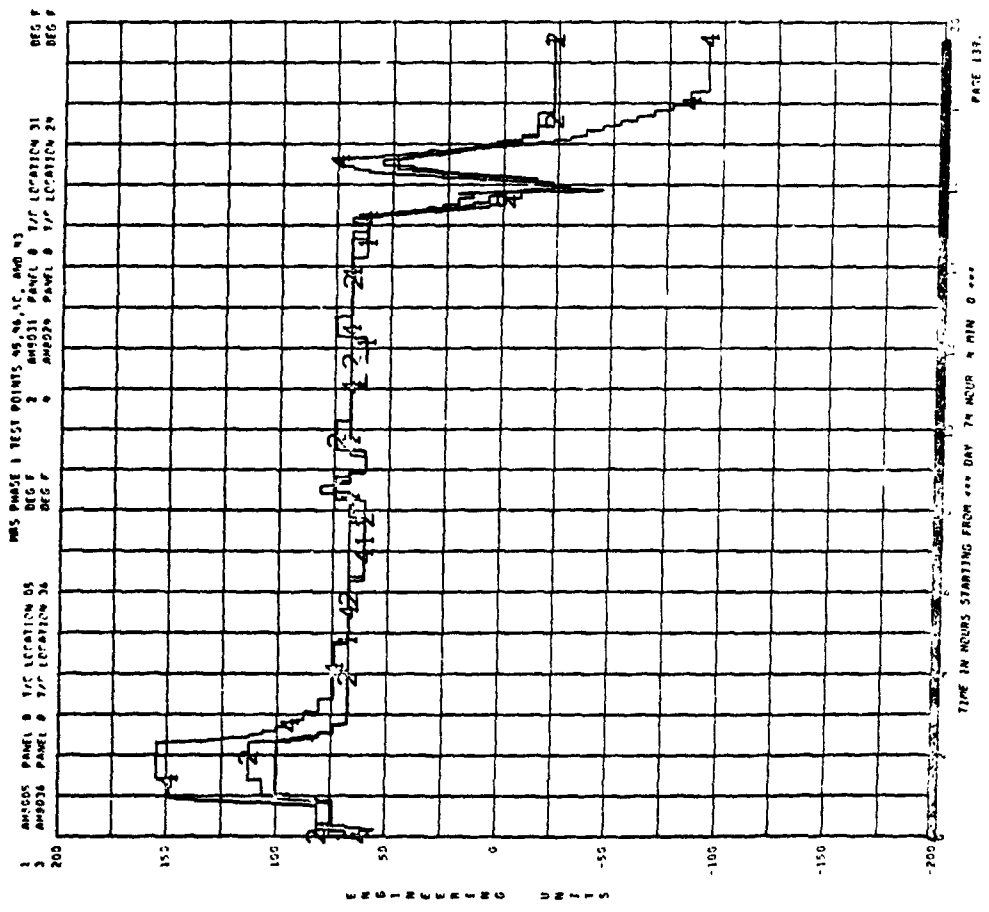
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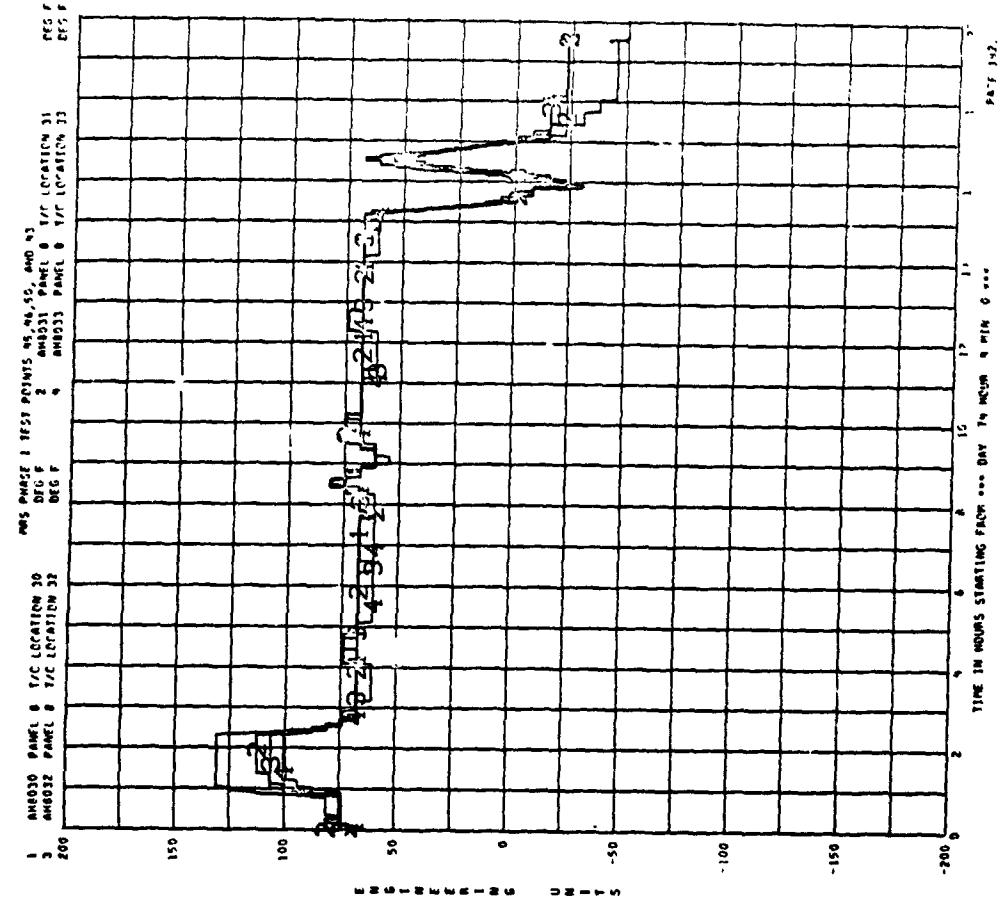
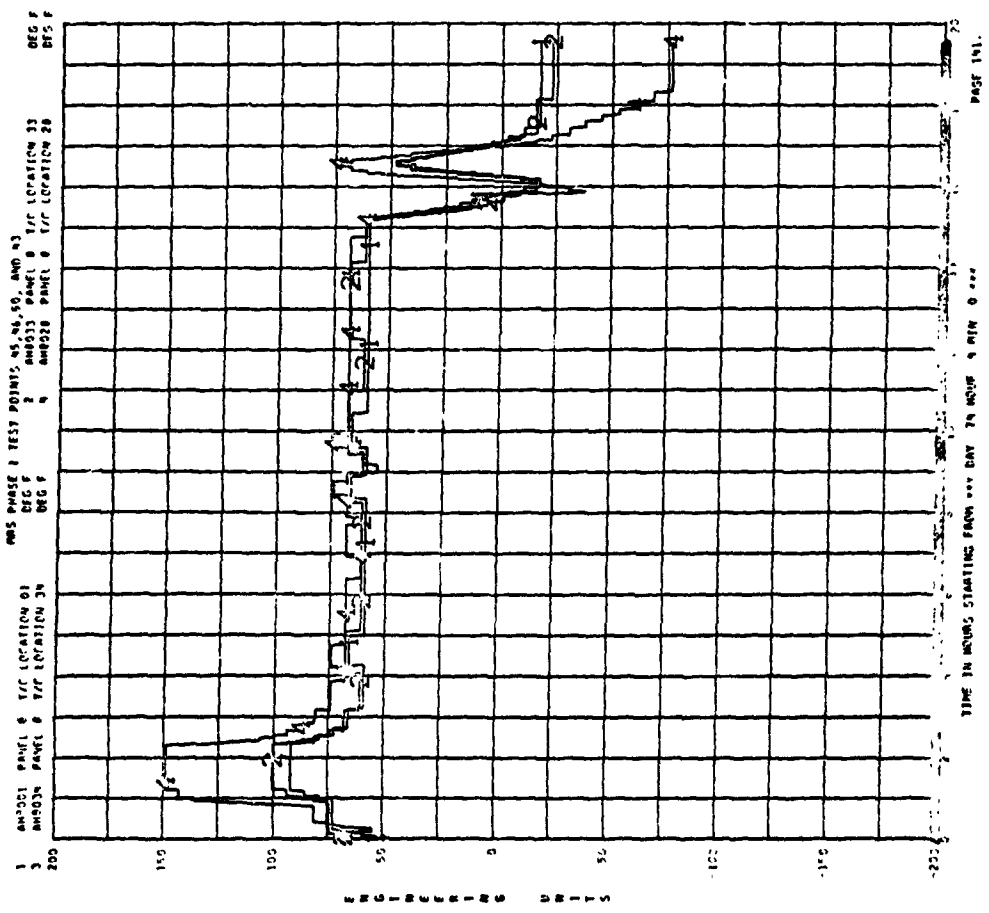
1 AC7011 PANEL 7 T/C LOCATION 11
 2 AC7011 PANEL 7 T/C LOCATION 13
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 17 AC7011 PANEL 7 T/C LOCATION 43
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 20 AC7011 PANEL 7 T/C LOCATION 49



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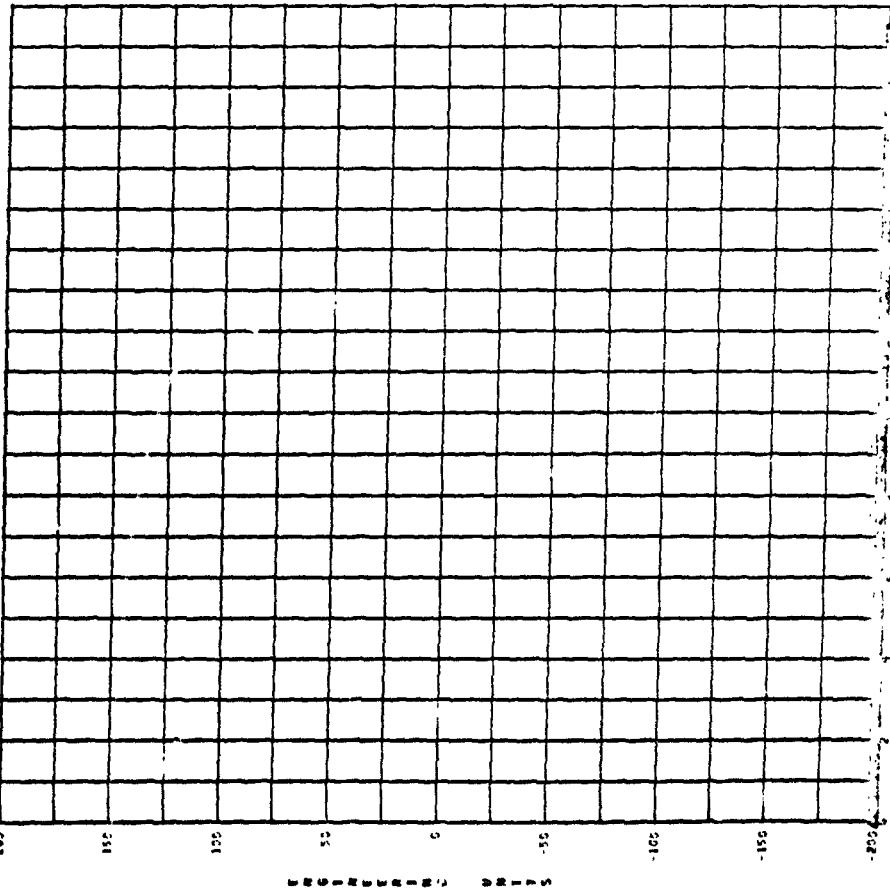






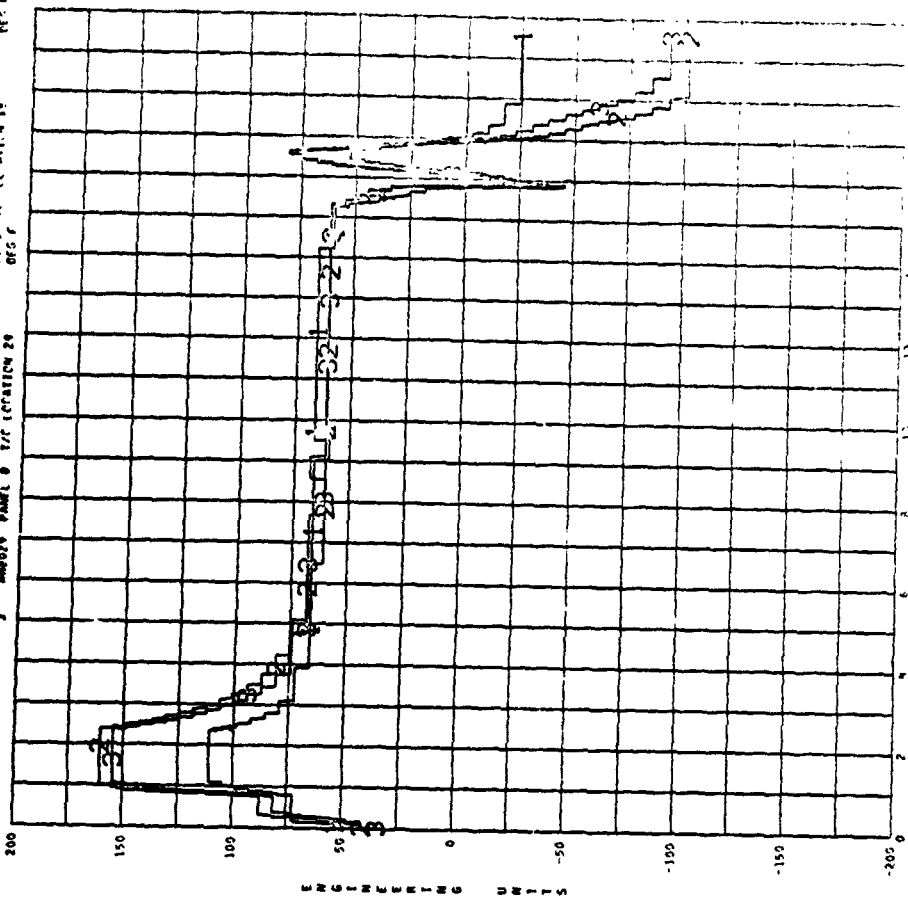
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1 AM0034 PANEL 0 T/C LOCATION 35
 2 AM0035 PANEL 0 T/C LOCATION 36
 3 AM0036 PANEL 0 T/C LOCATION 35
 DES F



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1 AM0011 PANEL 0 T/C LOCATION 11
 2 AM0012 PANEL 0 T/C LOCATION 20
 3 AM0013 PANEL 0 T/C LOCATION 11
 DES F



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