



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

P.O. BOX 618, NORTH COUNTRY ROAD • WADING RIVER, N.Y. 11792

JOHN D. LEONARD, JR.
VICE PRESIDENT - NUCLEAR OPERATIONS

August 22, 1984

SNRC-1074

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Integrated Electrical Test Data
Shoreham Nuclear Power Station - Unit 1

Docket No. 50-322

Dear Mr. Denton:

Enclosed please find the following documents related to the recently conducted Integrated Electrical Test (IET) at Shoreham:

- a) The introductory section of the Integrated Electrical Test Procedure (IET)
- b) Load curves for each of the four twenty (20) minute test steps conducted during the Integrated Electrical Test
- c) Summary data sheets showing voltage and KW during the one (1) minute steady state peak load period for each of the four test steps.
- d) Marked up FSAR Tables

Test results are presently undergoing review for approval by Quality Assurance and the Joint Test Group and as such the results have not been approved.

As your staff is aware, the current SNPS FSAR Tables, including the proposed changes outlined in our letter SNRC-1065, are based on design data. The enclosures in this letter represent a summation of the actual loads experienced during a LOOP/LOCA simulation for the integrated electrical test. It should be noted that these loads can be considered representative since operating plant conditions have been simulated to the maximum extent possible.

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PDR AJOCK 05000322
A PDR

Boo!

The enclosed documents are provided for Staff information in understanding the objectives of the IET and documenting the actual diesel loads, specifically those experienced during the IET.

In providing the introductory portion of the test procedure, the purpose of the IET is outlined. Four test steps are conducted in the IET as follows:

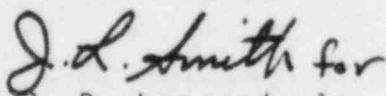
- a) One step in which all three diesels are loaded during a LOOP/LOCA event.
- b) Three steps in which one diesel is placed in "lockout" and the remaining two diesels are subjected to a LOOP/LOCA event. In each test, a different engine is placed in "lockout" so that all engine combinations are tested.

Load curves for each of the diesels showing the load profile during the steps described above are included. In addition, tabulated data during the one (1) minute steady state peak load period is enclosed.

The primary purpose of the IET is to ensure emergency bus separation and proper loading of the diesel buses during a LOOP/LOCA event, therefore equipment loads were not actually measured, but rather, verification that the equipment had started as required, was of more concern. As such, enclosed is a marked up FSAR table identifying equipment which was known to be near the tabulated value as opposed to equipment that was known to be connected to the bus but whose load was not exactly determinable.

Should you require any further clarification of this information, please do not hesitate to contact us.

Very truly yours,



J. D. Leonard, Jr.
Vice President - Nuclear Operations

BEG:ck

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ATTACHMENT I

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ATTACHMENT 1

Attachment I
Page Two

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1.0 OBJECTIVE

The objective of the Integrated Electrical Test is to verify the existence of independence among redundant onsite power sources and their load groups. Various equipment configurations, as listed below, will be utilized to demonstrate independence during Plant response to the Loss of Coolant Accident (LOCA) with and without a Loss of Offsite Power (LOOSP). Plant equipment will be aligned for each test to demonstrate maximum response to each event while attempting to adhere to normal system lineups. Equipment response will be verified using Control Room Indication.

Test 1 - Simulated loss of coolant accident (LOCA) with offsite power available. This will demonstrate diesels start without load shedding and with the automatic initiation of Emergency Core Cooling Systems by HIGH DRYWELL PRESSURE accident signal.

SECTION 8.2

Test 2 - Loss of offsite power (LOOSP) with simultaneous simulated Loss of Coolant Accident (LOCA). This will demonstrate load shedding, diesel automatic start, bus reenergization, and sequencing of the bus loading initiated by concurrent bus undervoltage and LOW LOW LOW reactor water level accident signal.

SECTION 8.3

Test 3 - With orange emergency DC battery system and associated emergency AC diesel generator out of service, initiate simultaneously simulated LOCA and LOOSP conditions. This demonstrates separation of the orange DC and 103 emergency bus from the red and blue DC buses and the 101 and 102 emergency AC buses.

SECTION 8.4

Test 4 - With blue emergency DC battery system and associated emergency AC diesel generator out of service, initiate simultaneously simulated LOCA and LOOSP conditions. This demonstrates separation of the blue DC and 102 emergency bus from the red and orange DC buses and the 101 and 103 emergency AC buses.

SECTION 8.5

Test 5 - With the red emergency DC battery system and associated emergency AC diesel generator out of service, initiate simultaneously simulated LOCA and LOOSP conditions. This demonstrates separations of the red DC and 101 emergency bus from the blue and orange DC buses and the 102 and 103 emergency DC buses.

JTG APPROVED JUL 26 1984

* LOADS ENERGIZED DURING INTEGRATED ELECTRICAL TEST
 + LOADS ENERGIZED BUT CYCLING OR ACTUAL LOAD VARYING

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TABLE 0 3 1-1

EMERGENCY DIESEL GENERATOR SYSTEM
 REQUIRED LOADS AND MAXIMUM COINCIDENT DEMANDS

Function	Nameplate Rating (kw)	Total Plant Number	Design Resis. Loss of Coolant 0-10 min	Number of Accidents 10 min	Number Required	Loss of Offsite Power (Hot Standby)	Maximum Coincident Demand (kilowatt)	
							DG 101	DG 102
* Core Spray Pump	1250	2	1	1	-	-	878	998
* Residual Heat Removal Pump	1250	4	2	1	2	2	999	998
* Service Water Pump	450	4	2	2	2	2	358	248-358
+ RRSVS and CRAC Water Chiller	292	4	2	2	2	2	235	470
* RRSVS and CRAC Water Chiller Lube Oil Pump	.75	4	2	2	2	2	0.2	0.4
* RRSVS Chiller Circ. Water Pump	75	4	2	2	2	2	60	120
* RRSVS Chiller Cond. Water	70	4	2	2	2	2	16	32
* RRSVS Unit Cooler	30	8	4	4	4	4	96	96
* RRSVS Exhaust Fan	100	3	2	2	2	2	82.5	82.5
* Reactor Building Exhaust Booster Fan	7.5	2	1	1	1	1	6	6
* RRSVS Filter Return Coil	6.6 kw	2	1	1	1	1	6.6	6.6
* RBCLCW Circ. Pump	100	3	2	2	2	2	80	80
+ Diesel Generator Air Compressor	10	6	-	-	-	-	12	12
+ Diesel Generator Fuel Oil Transfer Pump	5	6	2	2	2	2	0.4	0.4
Diesel Generator Jacket Water Heater	36 kw	6	-	-	-	-	72	72
Preheat Generator Jacket Water Pump	2.5 kw	3	-	-	-	-	2.5	2.5
Diesel Generator Lube Oil Heater	20 kw	3	-	-	-	-	20	20
Diesel Generator Balance Water Lube Oil Pump	5	3	-	-	-	-	4	4
Diesel Generator Jacket Water Heater	4.2 kw	3	-	-	-	-	4.2	4.2
+ Battery Charger (125 V)	60 kw DG 101	3	2	2	2	2	20	25
+ 120 V AC Instrument Power	100 kw DG 102	3	2	2	2	2	80	80
	50 kw DG 101							
	6.5 kw							
+ Diesel Generator Room Vent Supply Fan	20	3	2	2	2	2	16	16
* Battery Room Vent Supply Fan	2	3	2	2	2	2	1.6	1.6
* Control Room Air Conditioning Fan	40	2	1	1	1	1	33.9	33.9
* Control Room Vent Booster Fan	7.5	2	1	1	1	1	6.0	6.0

TABLE 0.3.1-1 (Cont'd)

Function	Nameplate Rating (hp)	Total Plant Number	Number Required of Contingency 0-10 min	Number Required of Contingency 10-30 min	Loss of Offsite Power (Not Standby)	Maximum Coincident Demand (MW)	DC-101	DC-102	DC-103
* Emergency Switchgear, Relay & Computer Rooms Air Conditioning Unit	40	2	1	1	1	33.9	33.9	-	-
* FSC-41e-Conditioning Unit	40 kW	1	-	1	1	-	-	40	40
* FSC-41e-Cooled Condenser	30 kW	1	-	1	1	-	-	30	30
* Emergency Switchgear, Relay & Computer Rooms Exhaust Fan	10	2	1	1	1	8.0	8.0	-	-
* RQSVS Chiller Room Exhaust Fan	3	2	1	1	1	2.4	2.4	-	-
* Screenwall Exhaust Fan	10	2	1	1	1	8.0	8.0	-	-
* Screenwall Interposing Relay Panel	1 kVa	1	1	1	1	-	0.8	-	-
* MCC Room Ventilation	15	2	1	1	1	0.5	0.5	-	-
* IPCI MU Set Room Ventilation	3	4	2	2	2	2.4	2.4	4.8	-
* Unit Cooler MCC DBI Room	1.5	1	1	1	1	-	1.2	-	-
* Spent Fuel Pool Cooling Water Pump	30	2	1	1	1	21	21	24	24
* Torp Level Pump (CS, RM, HPE, etc)	7.5	4	4	2	4	12.0	12.0	-	-
* Atmospheric Condensate Recombiner	109 kW	2	-	1	-	109	109	-	-
* MW-LCE-Heaters	8.6 kW	4	-	-	-	-	26.4	-	-
* MW-LCE-Blowers	4.4	3	-	-	-	7	7	3.5	-
* Radiation Monitoring Lighting Equipment	1	10	-	-	-	4.8	3.2	-	-
* Fire & Security Lighting	407.2 kW	-	-	-	X	180	-	227.2	-
* Inert Gas Distribution System	60 kW	-	-	-	X	34	-	26	-
* Diesel Fueling System	25	2	-	-	2	20	20	-	-
* Battery Charger	25 kVa	1	-	-	1	-	-	20	-
* Battery Charger 12.5 k	3 kVa	4	-	-	-	2.4	2.4	-	-
* Battery Charger (Vital Bus)	37.5 kVa	1	1	1	1	-	-	30	-
* Battery Charger (Security Caisson)	20 kVa	1	1	1	1	-	-	16	-
* Battery Charger (Security or Computer Power)	20 kVa	1	-	-	-	-	-	4	-
* Computer Bus	20 kVa	1	1	1	1	16	-	-	-
* Control Room Heating System	250	2	-	-	1	206.1	206.1	-	-
* Heating System	25	8	-	-	4	80	80	-	-

TABLE B.3.1-1 (Cont'd)

Function	Minimum Rating (kW)	Total Plant Rating	Number Required		Loss of Offsite Power (Hot Standby)	Maximum Coincident Demand (kilowatt)	
			Design Basis Loss of Containment	10 Min		DC-101	DC-102
Primary Containment	2 kVa	2	-	1	-	1.6	1.6
Air Cooler Subfeed	60	2	-	1	-	48	48
Reactor Water Cleanup Pump	25	1	-	-	20	-	-
Reactor Water Cleanup Pump	60	1	-	1	-	-	48
Back Pump	0.5	1	-	1	-	-	0.4
Main Turbine Turning Gear	40	1	-	1	-	-	32
Main Turbine Piggyback	5	7	-	7	-	8	12
Main Turbine Turning Gear	1.5	2	-	2	-	1.2	1.2
Oil Pump	10	2	-	2	-	8	8
Main Turbine Bearing Lifting Pump	1.5 kVa	2	-	2	-	1.2	1.2
Feedwater Turbine Turning Gear	40	2	-	-	-	32	32
Standby Turbine Turning Gear	10 kW	1	-	-	-	-	10
Standby Turbine Turning Gear	45 kW	1	-	-	-	-	45
Steam Heater	3 kVa	2	-	-	-	3	3
Standby Turbine Turning Gear	25 kVa	2	1	1	2	20	20
Heat Tracing Transformer	200	4	2	2	2	160	160
480 V M-G Set	3.25	2	-	-	-	2.5	2.5
Refueling Hoist Crane	3.5	1	-	-	-	2.8	-
Refueling Platform Assembly	-	1	-	-	-	19.7	18.3
Motor Operated Valves	-	-	-	-	-	95.9	75.2
Nonoperating MV's	-	-	-	-	-	-	-
Total Connectable Loads	-	-	-	-	-	4281.2	4147.8
Minus Diverse Loads	-	-	-	-	-	95.8	75.2
Minus Diverse Loads	-	-	-	-	-	4285.4	4072.5
Minus Diverse Loads	-	-	-	-	-	507.8	438.0
Minus Diverse Loads	-	-	-	-	-	3587.6	3634.5
Minus Diverse Loads	-	-	-	-	-	20.0	20.0
Minus Diverse Loads	-	-	-	-	-	3667.6	3634.5
Minus Diverse Loads	-	-	-	-	-	116.0	118.9
Minus Diverse Loads	-	-	-	-	-	3634.6	3485.6
Minus Diverse Loads	-	-	-	-	-	102.7	102.7
Minus Diverse Loads	-	-	-	-	-	3428.9	3487.7
Minus Diverse Loads	-	-	-	-	-	10.7	18.3
Minus Diverse Loads	-	-	-	-	-	0.7	0.7

SAPS 1 FSAR

TABLE B.2.1-1 (CONT'D)

	DG-101	DG-102	DG-103			
Total kW (Prior to 10 minutes)	3733.2	3388.6	3442.7	2409.7	2264.8	3889.7
Minus Note 4 Loads	0	0	-1310.2	0	0	-1310.2
Plus Note 14 Loads	0	0	150.0	0	0	150.0
Total kW (After 10 minutes)	3733.2	3388.6	2282.5	2409.7	2264.8	2649.5

NOTES:

- 1. Maximum coincident demand shown occurs during the 0-10 minute period after a design basis loss of coolant accident (LOCA).
- 2. Kilowatt loads given are from manufacturer's data for the CS, RRM, service water pumps, motor-generator sets, RBSVS chiller units, and all motors greater than 100 hp.
- 3. On loss of offsite power, it is necessary to go to a cold shutdown condition if DG-103 does not start, since the three required service water pumps will not be available. Note that only two service water pumps are required for a design basis LOCA condition. (Only one pump is connected automatically to DG-103, the other may be connected manually only.)
- 4. Two units are started on DG-103. One unit is shut down when it is determined which section of the system will be used.
- 5. These nonclass 1E components are not required for a safe shutdown. Loading indicated for various modes of operation is desirable, although not essential. All remaining components are Class 1E.
- 6. Minimum safe shutdown requirements for a suction line break. Actual pump requirements depend on break location (see Section 6.3.3).
- 7. X indicates load required.
- 8. These loads are tripped intentionally (automatically) on a LOCA.
- 9. These loads are not normally operating and receive no automatic start signal after a LOCA.
- 10. These nonsafety related loads have seal-in type control circuits that drop out on a loss of offsite power prior to connecting to the diesel generators.
- 11. These MUV's are connected to their respective diesel buses but do not operate upon a LOCA.
- 12. The load to be carried by the M-G Sets consist of certain motor-operated valves. On Unit 103, one set operates at full load and one set operates unloaded.
- 13. These loads are automatically tripped when diesel generator starts.
- 14. These loads are prevented from starting until 10 minutes after a LOCA signal.
- 15. Loads imposed by battery chargers are based on the dc loading of the battery chargers.
- 16. One pump will start ...

8.2

1.5.7. STEP 0.2 0/13/04
 FILE 40593
 RUN 1
 DATE 04/15/04

TIME 0 START OF RUN 01:12:50: 10
 BEGINNING AT 09.00 SECS. FROM START OF RUN

CHOP# 200 CHOP# 201 CHOP# 202 CHOP# 207 CHOP# 210 CHOP# 212
 0410VLT 0510VLT 0510VLT 0510VLT 0510VLT 0510VLT
 VHC 0510VLT 0510VLT 0510VLT 0510VLT 0510VLT 0510VLT

RELATIVE TIME	0	0	0	0	0	0
4040.511	2822.165	4154.740	2797.531	4230.256	3918.594	
4040.792	2819.147	4156.422	2797.891	4233.874	3917.204	
4040.831	2815.142	4151.075	2794.791	4235.974	3908.594	
4040.821	2822.165	4155.385	2794.791	4230.256	3905.841	
4040.511	2822.165	4154.711	2797.891	4230.256	3905.894	
4040.802	2824.481	4164.311	2797.891	4230.256	3905.894	
4040.801	2821.403	4156.593	2797.891	4231.305	3908.231	
4040.511	2822.165	4156.822	2797.891	4231.305	3912.842	
4040.601	2824.481	4156.822	2794.711	4237.642	3912.842	

RELATIVE TIME	0	0	0	0	0	0
4042.240	2824.481	4156.822	2794.711	4240.147	3905.841	
4040.831	2824.481	4161.835	2794.810	4240.147	3905.841	
4040.511	2824.481	4154.740	2797.891	4230.256	3907.841	
4040.802	2822.165	4153.748	2794.810	4230.256	3908.204	
4040.831	2821.403	4156.822	2794.810	4237.642	3908.231	
4040.511	2821.403	4156.593	2791.740	4237.642	3908.231	
4040.740	2824.481	4156.593	2797.891	4230.256	3905.176	
4040.740	2821.403	4156.822	2797.891	4230.256	3902.891	
4040.801	2821.403	4156.822	2794.711	4230.256	3909.231	
4040.831	2821.403	4154.711	2791.740	4237.642	3908.204	

RELATIVE TIME	0	0	0	0	0	0
4042.240	2821.403	4153.785	2792.891	4237.642	3905.841	
4040.521	2822.165	4154.793	2795.810	4242.260	3908.594	
4040.801	2824.481	4154.740	2794.810	4242.260	3908.231	
4040.511	2824.481	4154.711	2797.891	4239.874	3905.841	
4040.531	2829.112	4156.822	2798.891	4230.256	3905.176	
4040.740	2821.403	4156.822	2794.810	4230.256	3905.176	
4040.840	2822.165	4158.735	2794.810	4230.256	3905.841	
4040.740	2822.165	4156.822	2790.810	4230.256	3908.594	
4040.503	2825.112	4154.711	2794.810	4230.256	3907.891	
4040.670	2825.112	4154.711	2794.810	4237.642	3902.842	

RELATIVE TIME	0	0	0	0	0	0
4040.501	2825.112	4155.892	2790.810	4237.642	3902.842	
4040.511	2819.147	4154.811	2797.891	4237.642	3908.204	
4040.891	2821.403	4155.892	2795.810	4230.256	3905.894	
4040.821	2821.403	4155.892	2794.810	4230.256	3905.841	
4040.831	2821.403	4154.811	2794.810	4237.642	3905.894	
4040.840	2825.112	4154.811	2794.810	4237.642	3905.894	
4040.840	2825.112	4154.811	2794.810	4237.642	3905.894	
4040.670	2825.112	4155.892	2790.810	4237.642	3902.842	
4040.840	2822.165	4154.811	2794.810	4237.642	3905.894	
4040.840	2821.403	4154.811	2794.810	4237.642	3905.894	

8.2

4025.250	2021.403	4158.075	278.817	4237.603	3062.865
4041.070	2022.213	4158.072	2782.578	4239.974	3062.191
4041.570	2022.213	4158.072	2784.007	4240.203	3062.523
4044.521	2022.213	4158.072	2784.207	4240.693	3062.809
4044.521	2022.165	4158.072	2782.578	4240.949	3063.941
4045.560	2022.165	4158.075	2784.207	4241.501	3062.613
4041.570	2022.165	4158.072	2779.767	4241.909	3065.170
4041.570	2022.213	4158.075	2779.525	4243.965	3062.105
4049.581	2022.213	4158.079	2782.578	4243.674	3063.667
4044.570	2022.451	4158.085	2794.067	4243.074	3062.181
4042.245	2022.165	4160.587	2779.525	4237.603	3062.009
RELATIVE TIME					
4046.251	2021.453	4158.081	2831.017	4239.974	3065.170
4029.310	2021.453	4158.075	2776.767	4240.547	3062.178
4041.570	2022.165	4158.075	2776.767	4240.203	3062.125
4041.570	2022.451	4158.083	2781.017	4241.003	3063.939
4043.581	2021.453	4158.083	2782.578	4240.963	3062.080
4049.581	2021.403	4158.085	2776.767	4240.674	3062.961
4042.240	2022.165	4158.082	2776.767	4239.583	3062.349
4039.308	2022.451	4158.082	2776.767	4240.254	3062.094
4039.308	2021.451	4158.083	2784.207	4240.286	3061.033
4040.240	2022.213	4158.080	2772.572	4233.124	3062.125
RELATIVE TIME					
4042.245	2021.403	4153.740	2784.067	4239.974	3062.000
4037.518	2021.463	4150.395	2782.578	4239.374	3062.000
4039.308	2021.453	4150.787	2782.578	4240.347	3062.000
4032.394	2022.165	4150.793	2782.578	4240.507	3062.000
4037.518	2022.451	4150.580	2784.067	4239.246	3062.000
4039.308	2021.403	4150.123	2782.578	4237.074	3062.635
4039.308	2022.165	4150.120	2781.733	4233.101	3062.175
4040.240	2019.117	4156.015	2784.943	4234.002	3063.179
4037.518	2022.165	4158.075	2784.983	4239.205	3062.176
4037.518	2022.165	4158.075	2781.730	4240.547	3062.125
RELATIVE TIME					
4039.308	2021.403	4154.311	2784.019	4242.139	3062.125
4039.308	2021.165	4156.022	2779.767	4240.547	3062.000
4041.570	2021.453	4154.822	2797.063	4239.974	3062.178
4039.308	2019.305	4150.305	2784.210	4239.529	3063.541
4037.518	2019.782	4156.025	2784.736	4237.292	3063.179
4039.308	2022.165	4156.182	2776.767	4238.762	3062.176
4039.308	2024.451	4156.020	2784.019	4233.674	3063.125
4039.308	2022.165	4158.083	2784.781	4240.396	3062.175
4039.308	2019.311	4156.508	2784.019	4232.312	3062.125
4043.581	2019.117	4151.895	2784.781	4237.503	3062.178
RELATIVE TIME					
4039.308	2019.117	4158.087	2784.019	4239.974	3062.125
4039.308	2022.165	4158.081	2784.019	4240.547	3062.072
4039.308	2024.451	4156.032	2784.781	4239.525	3063.783
4039.308	2021.453	4156.032	2784.781	4239.348	3063.082
4039.308	2021.403	4158.085	2797.063	4231.369	3062.125
4039.308	2019.305	4160.707	2784.781	4232.674	3062.175
4037.518	2021.453	4158.087	2784.019	4233.101	3062.000
4041.570	2021.403	4156.032	2784.781	4239.205	3062.000

4042.240	2023.213	4154.740	2750.969	4237.693	2059.055
4059.380	2024.451	4152.875	2747.917	4229.286	2059.872
4057.679	2022.469	4168.657	2765.659	4239.974	2059.973
RELATIVE TIME					
4029.269	2021.213	4156.593	2705.676	4242.056	2059.876
4041.676	2023.261	4134.311	2726.636	4249.547	2059.872
4044.521	2026.261	4159.311	2737.917	4239.966	2059.976
4042.248	2024.461	4159.875	2765.659	4251.674	2059.869
4041.678	2023.461	4159.875	2737.917	4238.101	2059.872
4042.360	2025.461	4156.593	2765.659	4235.965	2059.979
4041.676	2027.469	4154.711	2705.676	4239.628	2059.783
4039.329	2028.261	4153.740	2736.636	4237.941	2059.781
4042.240	2028.261	4154.740	2740.966	4217.623	2059.781
4041.676	2028.213	4156.593	2767.917	4237.693	2059.876

RELATIVE TIME					
4043.591	2024.261	4156.593	2740.966	4235.693	2059.865
4042.240	2025.213	4156.593	2767.917	4239.286	2059.868
4042.240	2027.261	4153.311	2707.917	4239.166	2059.868
4044.521	2029.261	4167.628	2765.659	4237.674	2059.868
4046.281	2025.213	4154.711	2736.636	4233.101	2059.869
4048.281	2028.461	4136.532	2791.740	4232.674	2059.865
4046.240	2022.165	4159.869	2728.969	4237.524	2059.868
4044.521	2022.165	4159.869	2724.636	4238.256	2059.872
4042.360	2024.461	4153.740	2764.659	4239.573	2059.868
4043.591	2024.461	4154.740	2791.740	4249.674	2059.783

RELATIVE TIME					
4042.360	2025.213	4156.592	2794.761	4239.286	2059.783
4046.261	2022.163	4164.311	274.819	4239.286	2059.869
4046.261	2022.165	4154.511	2751.739	4237.693	2059.863
4044.521	2024.461	4154.711	2761.759	4219.767	2059.869
4039.329	2024.461	4156.593	2791.759	4241.674	2059.868
4042.240	2028.261	4156.622	2794.761	4233.074	2059.783
4041.676	2024.461	4154.711	2797.231	4249.261	2059.783
4043.591	2024.461	4153.675	2797.231	4239.392	2059.869
4042.240	2021.467	4155.740	2784.791	4238.964	2059.165
4042.240	2024.461	4156.593	2797.669	4241.674	2059.863

RELATIVE TIME					
4042.240	2025.213	4154.711	2797.671	4239.574	2059.869
4042.241	2028.261	4153.740	2809.691	4237.693	2059.783
4042.240	2023.213	4156.593	2863.169	4233.674	2059.783
4046.261	2021.469	4158.622	2908.991	4235.101	2059.125
4044.521	2021.467	4156.593	2899.119	4233.674	2059.125
4039.329	2024.461	4159.875	2886.119	4233.740	2059.783
4043.591	2025.213	4153.740	2908.119	4233.740	2059.869
4041.676	2025.213	4153.740	2924.165	4239.166	2059.869
4041.678	2025.213	4159.869	2897.969	4239.966	2059.869
4044.521	2022.165	4156.592	2903.932	4237.693	2059.869

RELATIVE TIME	0	1	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
RELATIVE TIME	0	1	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
RELATIVE TIME	0	1	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
RELATIVE TIME	0	1	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

40-0-240	2020-261	4151-899	2705-630	4214-772	3062-999
ES:TIME TIME				591	
40-0-240	2020-261	4153-748	2705-630	4218-767	3062-820
40-0-240	2020-261	4155-311	2705-630	4218-759	3062-842
40-0-240	2020-261	4156-828	2705-630	4217-801	3062-841
40-0-240	2020-261	4158-020	2705-630	4218-772	3062-809
40-0-240	2020-261	4158-100	2705-630	4218-811	3062-833
40-0-240	2020-261	4158-746	2705-630	4218-785	3062-825
40-0-240	2020-261	4158-793	2705-630	4218-806	3062-843
40-0-240	2020-261	4158-311	2705-630	4218-770	3062-840
40-0-240	2020-261	4158-746	2705-630	4218-773	3062-840
40-0-240	2020-261	4158-746	2705-630	4218-772	3062-840
ES:TIME TIME				595	
40-0-240	2020-261	4160-746	2705-630	4217-804	3062-840
40-0-240	2020-261	4151-859	2705-630	4218-753	3062-809
40-0-240	2020-261	4152-756	2705-630	4218-798	3062-809
40-0-240	2020-261	4152-748	2705-630	4218-763	3062-821
40-0-240	2020-261	4153-240	2705-630	4218-834	3062-809
40-0-240	2020-261	4161-859	2705-630	4218-746	3062-809
40-0-240	2020-261	4162-846	2705-630	4218-777	3062-825
40-0-240	2020-261	4162-846	2705-630	4218-854	3062-809
40-0-240	2020-261	4163-748	2705-630	4218-763	3062-809
40-0-240	2020-261	4162-828	2705-630	4218-801	3062-841
ES:TIME TIME				596	
40-0-240	2020-261	4155-748	2705-630	4218-772	3062-809
40-0-240	2020-261	4159-726	2705-630	4218-801	3062-825

OFF-LINE PLOT

L.S.T. STEP 2.3 8/15/84

FILE #2338

RUN # 1

DATE 8/15/84

TIME 9 START OF RUN 21:27:59.10

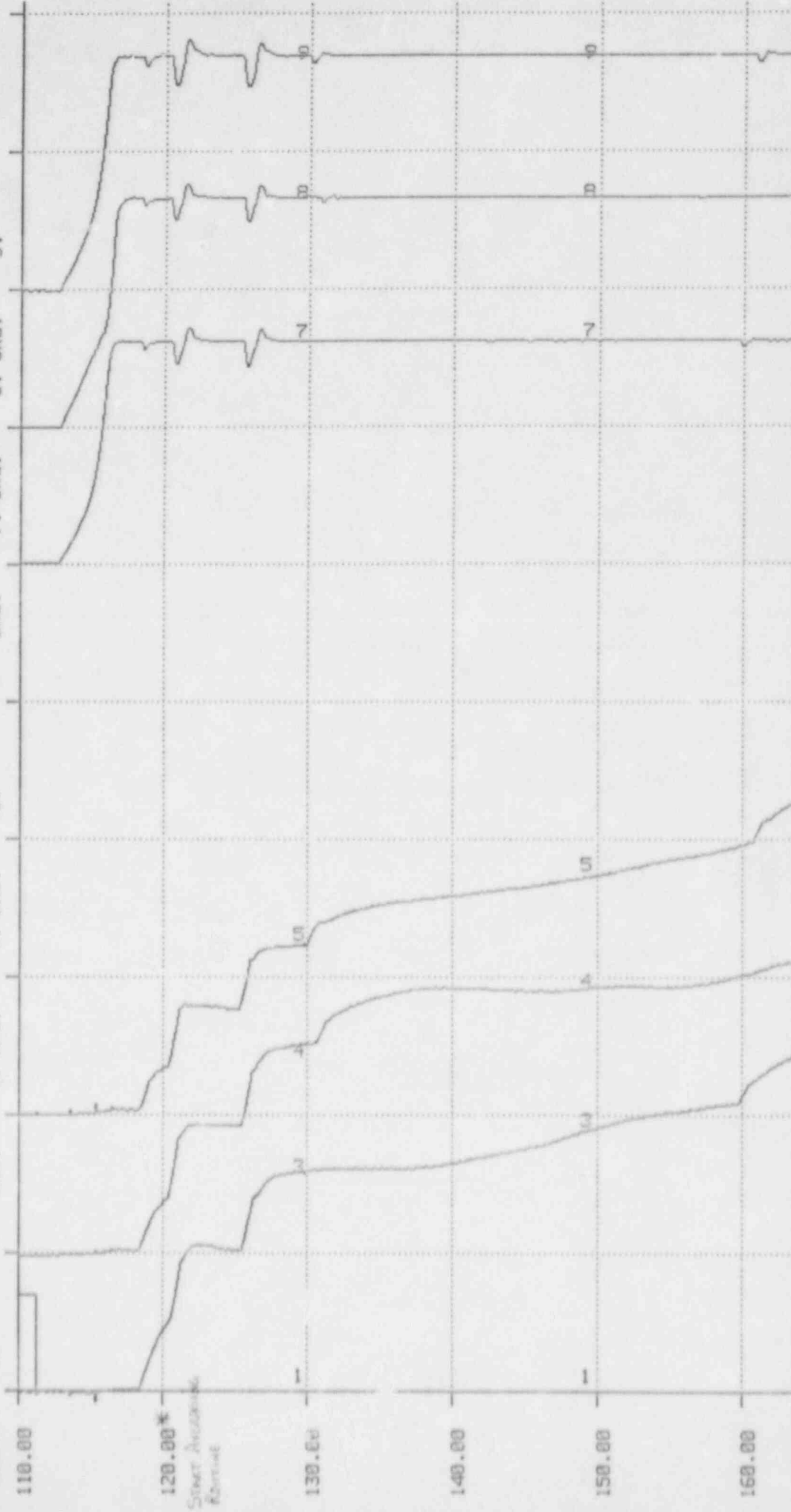
BEHAVING AT 110.00 SECS. FROM START OF RUN

10.000SEC./GRID LINE

CHAN# 214
 LOCA INT
 VOLT 10.0
 EU 0.0
 OFF 1.
 ORG. 1.

CHAN# 202 CHAN# 207 CHAN# 212
 DG101KV DG102KV DG103KV
 KW KW KW
 EU 1000.0 EU 1000.0 EU 1000.0
 OFF 2000.0 OFF 2000.0 OFF 2000.0
 ORG. 3. ORG. 4. ORG. 5.

CHAN# 200 CHAN# 205 CHAN# 210
 DG101VLT DG102VLT DG103VLT
 VAC VAC VAC
 EU 2500.0 EU 2500.0 EU 2500.0
 OFF 0.0 OFF 0.0 OFF 0.0
 ORG. 7. ORG. 8. ORG. 9.



8.2

120.00*

Start Accidents
 Runout

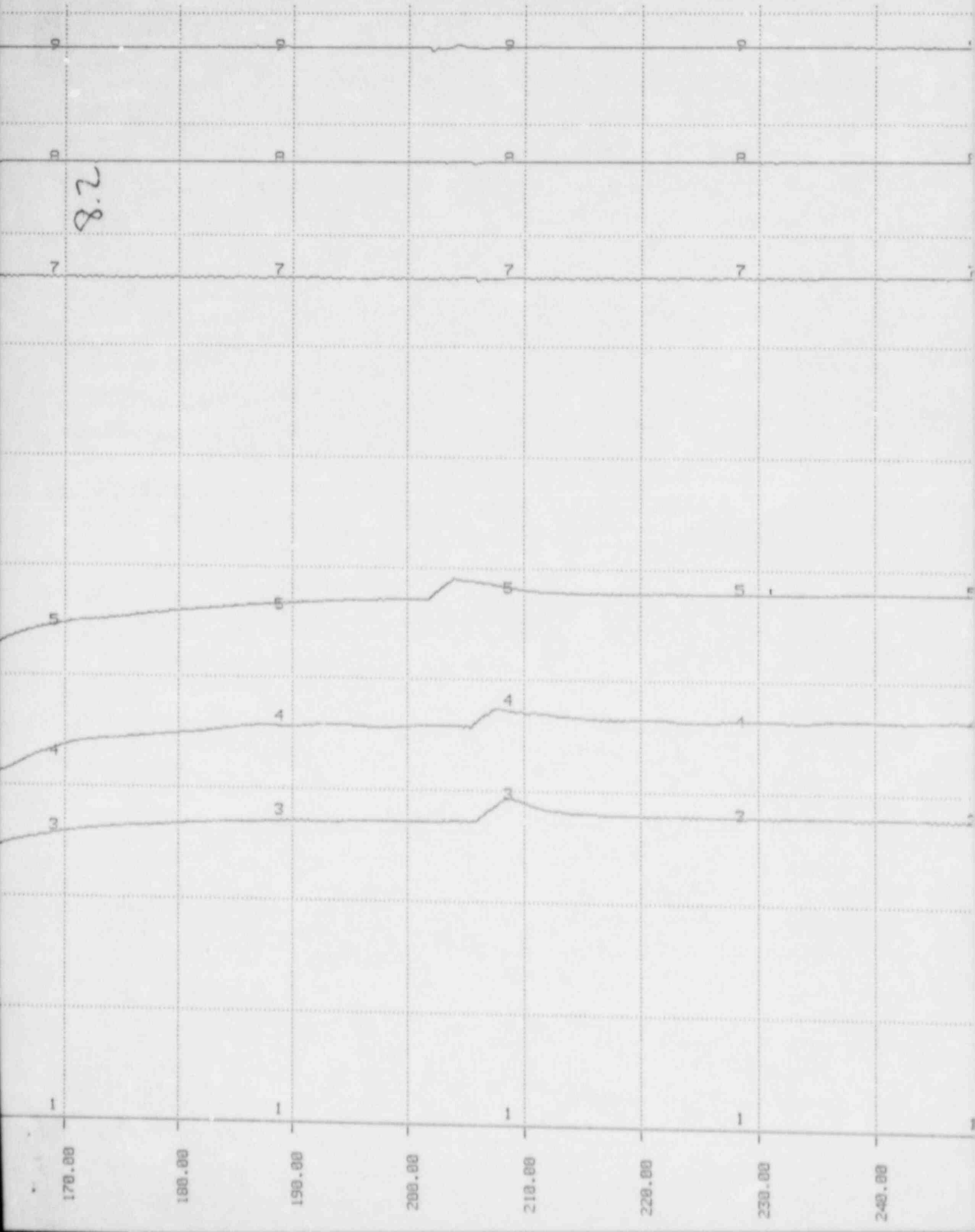
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140.00

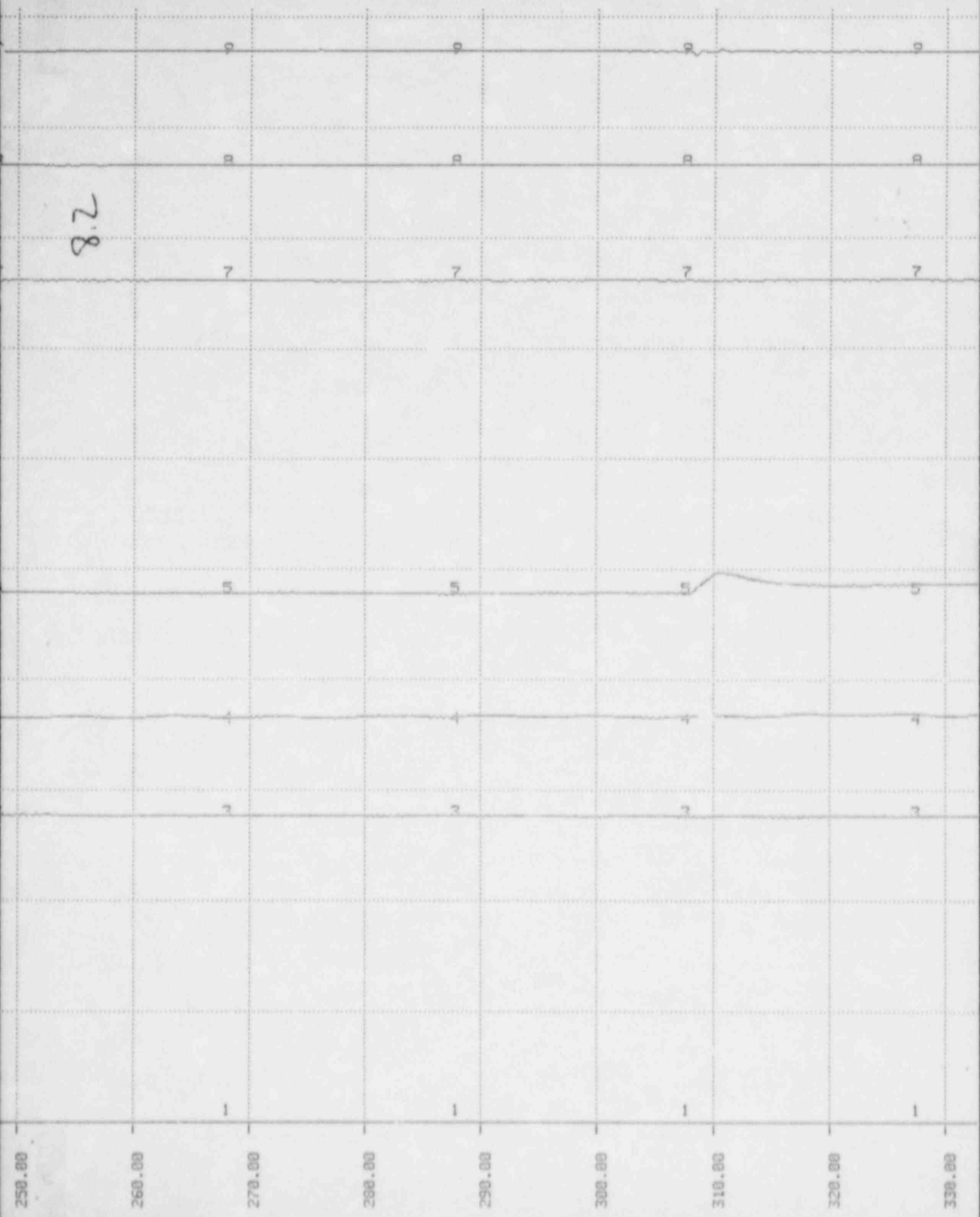
150.00

160.00

8.2



8.2



8.2

340.00

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350.00

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360.00

380.00

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370.00

400.00

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410.00

420.00 430.00 440.00 450.00 460.00 470.00 480.00 490.00 500.00

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8.2

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690.00

700.00 +

STREET DIGITAL
FRONTIER

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730.00

740.00

750.00

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STOP DIGITAL

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810.00

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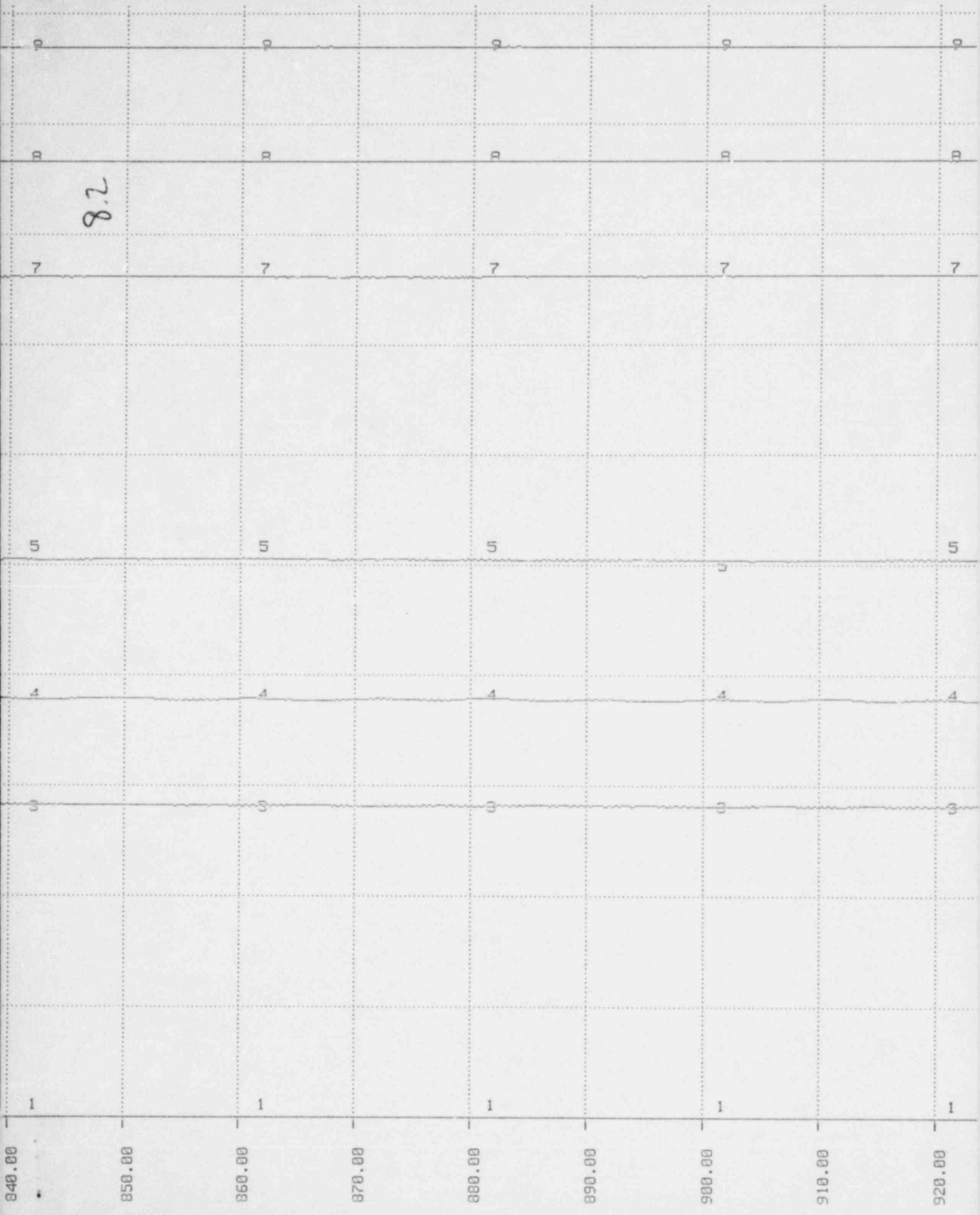
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930.00
940.00
950.00
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970.00
980.00
990.00
1000.0

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1030.0

1040.0

1050.0

1060.0

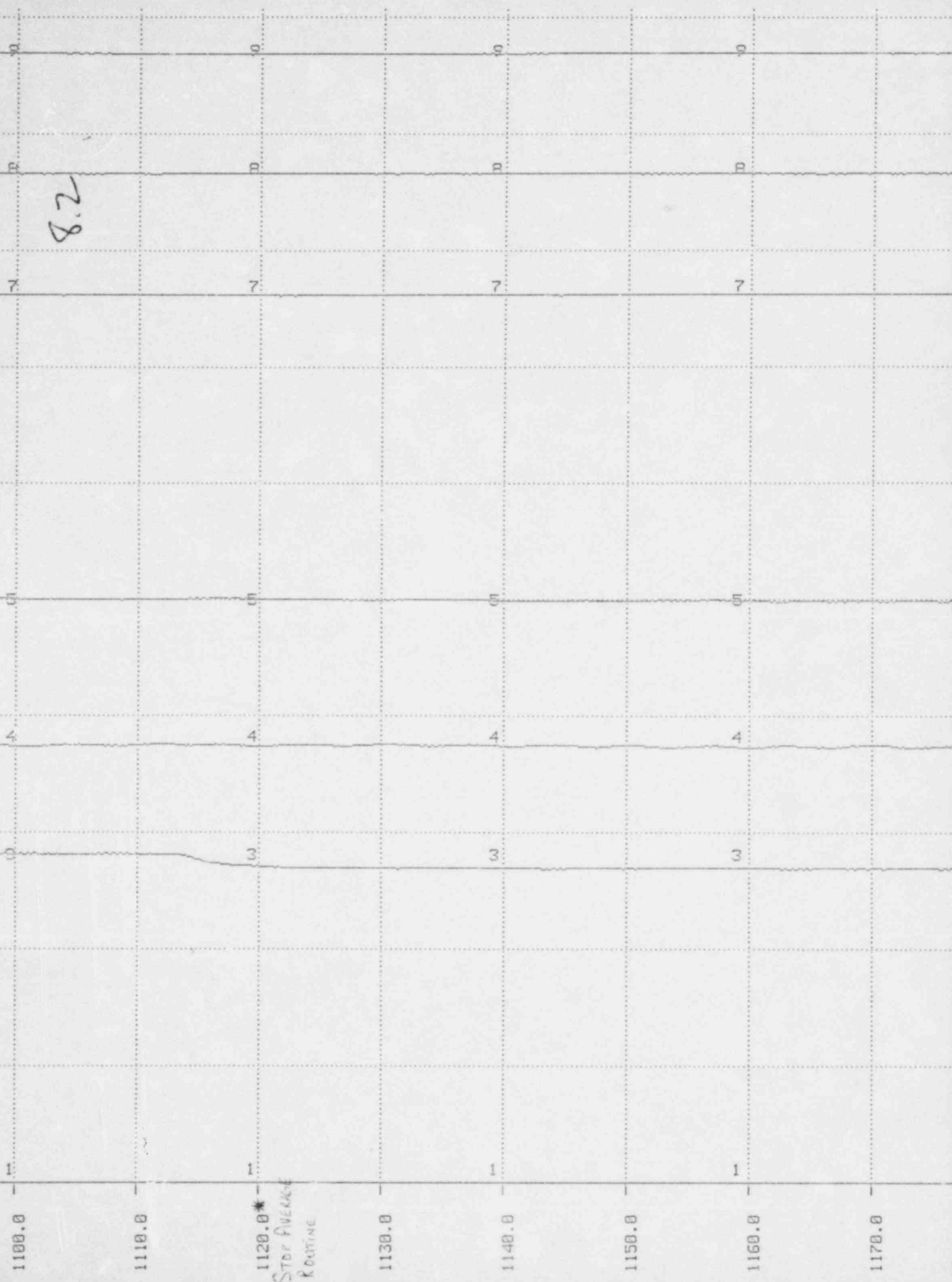
1070.0

1080.0

1090.0

8.2

8.2



1120.0*
STOP AVERAGE
ROUTINE

1100.0

1110.0

1130.0

1140.0

1150.0

1160.0

1170.0

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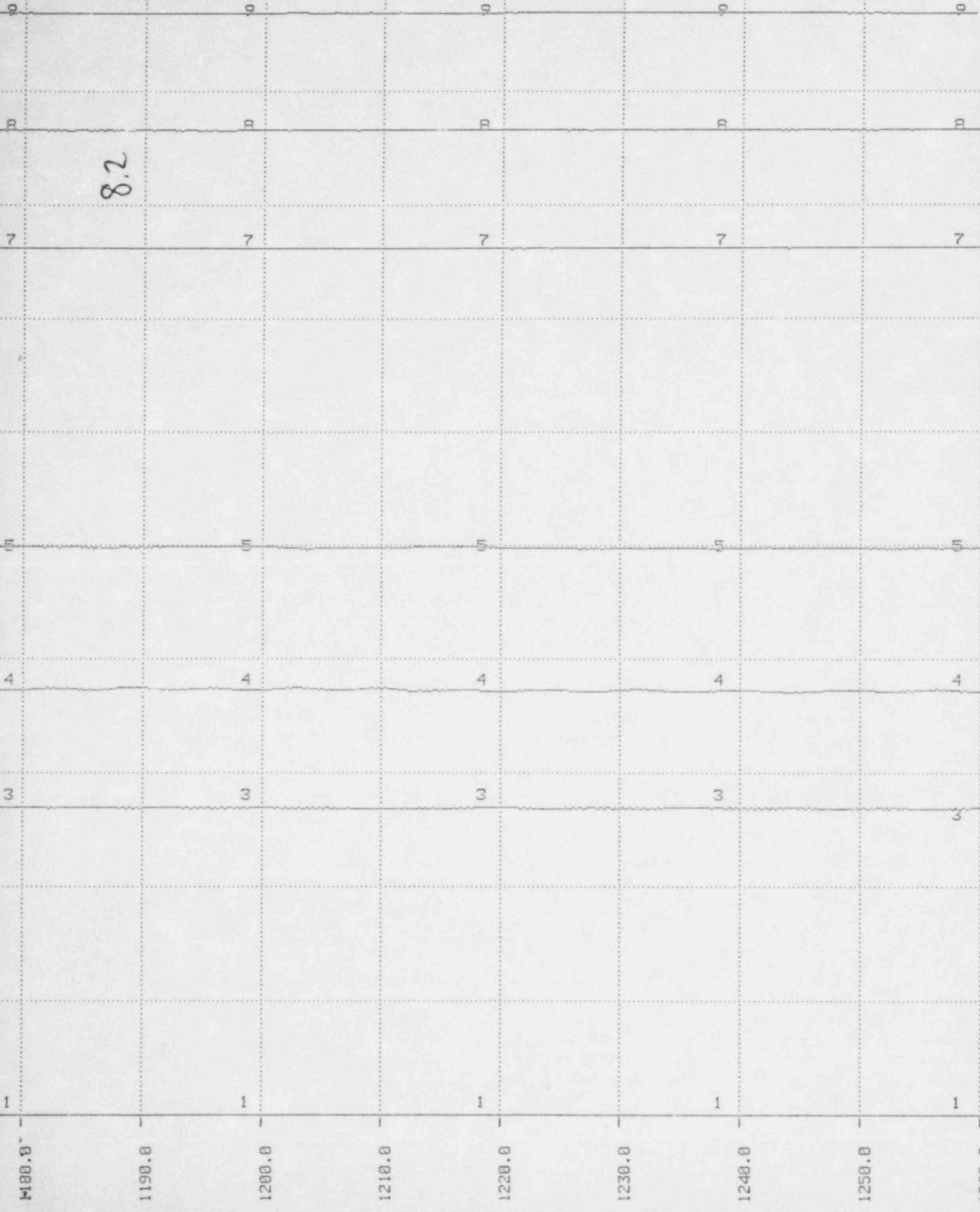
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8.2



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1270.0

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1280.0

1290.0

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1300.0

1310.0

FILE #9559

DATE 8-15-64

TIME 6 START OF RUN 2:26:27.10

BEGINNING AT 100.00 SEC. FROM START OF RUN

CHANE 201 CHANE 202 CHANE 203 CHANE 204
 03181VLT 05101KW 05102M.T 05103RM

RELATIVE TIME	0	0	0	0
4844.521	2521.000	4142.899	2798.177	
4839.959	2523.705	4145.894	2757.414	
4843.248	2524.547	4142.639	2755.113	
4842.248	2525.333	4143.329	2757.414	
4846.231	2523.206	4142.819	2761.227	
4844.521	2523.295	4145.162	2761.227	
4842.951	2521.808	4142.289	2758.117	
4839.358	2523.286	4146.014	2753.123	
4841.570	2524.047	4143.329	2755.125	
4841.248	2525.333	4148.047	2756.125	
4842.248	2527.833	4145.162	2757.414	
4846.231	2526.333	4142.699	2758.117	
4844.521	2521.808	4144.611	2752.876	
4839.959	2523.295	4145.894	2751.513	
4841.570	2527.899	4142.223	2751.513	
4839.958	2527.059	4142.899	2754.125	
4839.958	2524.747	4149.182	2755.125	
4839.390	2523.724	4144.611	2764.264	
4839.958	2524.047	4147.084	2751.513	
4842.248	2524.047	4142.728	2748.029	
4841.570	2522.895	4142.899	2748.029	
4844.521	2523.391	4146.847	2751.513	
4844.521	2523.335	4145.162	2758.876	
4845.231	2524.047	4144.611	2749.029	
4846.021	2521.847	4142.611	2749.029	
4839.568	2525.333	4145.162	2745.205	
4841.570	2526.783	4145.162	2745.205	
4844.521	2527.482	4142.899	2742.253	
4844.521	2527.895	4142.611	2748.285	
4846.861	2524.047	4142.899	2748.285	
4846.231	2523.206	4142.899	2745.125	
4842.248	2526.333	4143.302	2745.205	
4842.248	2527.855	4144.611	2742.253	
4842.248	2530.104	4142.611	2742.253	
4846.231	2528.333	4146.029	2741.253	
4846.231	2527.655	4145.225	2745.125	
4842.248	2524.047	4147.464	2742.253	
4844.521	2524.047	4148.029	2742.152	

RELATIVE TIME	0	0	0	0
4846.861	2524.047	4142.899	2748.285	
4846.231	2523.206	4142.899	2745.125	
4842.248	2526.333	4143.302	2745.205	
4842.248	2527.855	4144.611	2742.253	
4842.248	2530.104	4142.611	2742.253	
4846.231	2528.333	4146.029	2741.253	
4846.231	2527.655	4145.225	2745.125	
4842.248	2524.047	4147.464	2742.253	
4844.521	2524.047	4148.029	2742.152	

RELATIVE TIME	2629.381	4145.182	2742.925
4841.678	2629.381	4145.617	2742.925
4846.951	2627.895	4146.547	2745.973
4843.881	2624.847	4145.974	2748.212
4843.971	2623.888	4147.484	2748.974
4844.249	2624.847	4147.484	2748.182
4842.748	2626.887	4147.484	2742.925
4842.248	2626.385	4144.611	2740.282
4841.551	2627.895	4144.611	2747.835
4849.892	2626.385	4142.329	2752.076
4849.882	2627.897	4144.611	2749.253
4844.521	2623.286	4147.484	2749.253
4844.521	2624.847	4142.325	2749.253
4844.521	2626.383	4142.329	2751.313
4844.521	2627.895	4142.899	2753.128
4846.521	2624.847	4144.611	2757.414
4844.521	2621.808	4145.182	2753.128
4845.821	2621.808	4144.611	2753.128
4846.231	2623.286	4144.611	2753.128
4846.801	2623.286	4142.899	2753.128
4844.521	2627.895	4144.611	2757.414
4846.521	2623.286	4144.611	2761.233
4843.951	2627.895	4144.611	2753.128
4846.521	2628.237	4146.094	2764.217
4844.521	2626.237	4145.182	2769.518
4844.521	2627.899	4146.094	2764.217
4841.870	2624.847	4145.182	2751.227
4844.521	2624.847	4142.325	2744.277
RELATIVE TIME	2623.286	4145.182	2760.565
4842.951	2623.286	4147.328	2760.565
4843.882	2621.808	4144.611	2744.277
4846.231	2623.287	4144.611	2761.237
4846.081	2628.237	4145.182	2761.237
4843.581	2625.740	4142.899	2761.237
4841.521	2624.847	4145.182	2761.237
4848.511	2624.847	4142.329	2754.277
4843.521	2621.808	4147.484	2753.128
4840.521	2621.808	4147.484	2753.128
4843.521	2621.808	4147.484	2752.464
RELATIVE TIME	2628.847	4148.517	2768.434
4846.981	2624.847	4142.329	2750.464
4844.521	2624.847	4142.899	2750.464
4846.601	2624.847	4142.899	2750.464
4843.231	2623.286	4145.182	2760.565
4849.511	2621.804	4144.611	2752.414
4843.521	2624.847	4147.484	2751.313
4844.521	2627.899	4144.611	2751.313
4843.951	2626.383	4145.182	2752.076

RELATIVE TIME	δ	β	γ	θ
4845.001	2626.333	4146.004	2755.126	
4845.231	2624.047	4147.034	2754.264	
4846.231	2631.000	4146.054	2752.076	
4844.521	2624.047	4145.192	2743.925	
4844.821	2626.333	4145.162	2749.625	
4849.002	2626.333	4142.359	2751.312	
4842.511	2625.333	4149.039	2751.312	
4849.511	2624.047	4145.162	2749.625	
4844.521	2624.047	4146.175	2745.955	
4843.931	2625.206	4145.854	2749.267	
4846.231	2623.206	4142.095	2745.975	
4845.001	2627.090	4142.305	2749.265	
4843.002	2626.333	4142.329	2743.023	
4849.231	2624.047	4145.094	2749.554	
4849.002	2628.237	4144.511	2743.312	
4846.231	2625.206	4143.182	2743.975	
4846.001	2627.095	4142.329	2743.975	
4846.511	2626.333	4143.017	2745.573	
4849.002	2624.047	4142.039	2749.374	
4842.511	2623.206	4143.859	2749.929	
4842.511	2623.206	4146.511	2745.975	
4845.001	2626.333	4145.239	2745.975	

RELATIVE TIME	δ	β	γ	θ
4845.001	2626.333	4145.305	2746.219	
4845.231	2626.333	4144.111	2749.265	
4846.531	2624.047	4144.514	2749.265	
4846.001	2621.000	4147.464	2749.625	
4846.231	2621.000	4142.329	2745.212	
4842.501	2624.047	4144.011	2745.975	
4843.001	2624.047	4142.329	2748.253	
4843.511	2623.206	4142.039	2749.265	
4845.001	2624.047	4145.162	2749.625	
4843.002	2621.000	4143.019	2749.625	

RELATIVE TIME	δ	β	γ	θ
4846.001	2629.237	4142.099	2743.255	
4843.501	2623.206	4145.182	2743.255	
4846.001	2623.206	4146.046	2749.023	
4849.501	2624.047	4142.329	2751.312	
4846.001	2626.333	4145.102	2751.312	
4844.521	2624.047	4145.094	2751.312	
4843.501	2621.000	4142.039	2749.023	
4841.501	2624.047	4145.032	2751.312	
4843.001	2624.047	4143.611	2745.354	
4843.231	2621.000	4144.511	2745.255	

RELATIVE TIME	δ	β	γ	θ
4844.511	2620.237	4142.083	2755.255	
4843.001	2617.000	4145.094	2755.126	
4842.231	2621.000	4144.511	2753.076	
4844.521	2620.237	4142.052	2752.076	
4843.231	2623.206	4140.617	2751.312	
4843.701	2623.206	4142.099	2752.414	
4843.001	2626.333	4143.192	2749.177	

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RELATIVE TIME

404.570	2624.047	4145.152	2757.076
4044.521	2631.283	4144.511	2749.005
4046.081	2621.080	4142.379	2740.244
4045.231	2621.000	4142.329	2740.203
4046.231	2623.200	4146.517	2745.212
4042.240	2623.200	4145.152	2747.253
4041.521	2621.000	4142.050	2740.263
4045.231	2620.237	4142.313	2740.263
4046.231	2617.952	4143.059	2745.075
4041.570	2625.237	4147.054	2745.075
4043.951	2625.235	4145.050	2745.075
4041.570	2623.206	4142.059	2740.263
4045.081	2624.047	4143.057	2740.263
4040.511	2620.237	4140.517	2741.025
4046.231	2620.237	4147.454	2740.263

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RELATIVE TIME

4044.521	2621.000	4147.454	2740.263
4041.570	2621.000	4144.511	2743.025
4042.240	2623.206	4142.379	2751.311
4044.521	2621.000	4145.152	2754.304
4043.951	2621.000	4145.152	2751.313
4041.570	2617.952	4145.050	2754.304
4044.521	2621.000	4142.059	2752.075
1.570	2621.000	4144.511	2752.075
2.240	2624.047	4144.511	2757.126
4044.521	2621.000	4145.152	2750.177

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RELATIVE TIME

4044.521	2620.237	4142.059	2757.414
4044.521	2617.952	4144.511	2757.414
4040.500	2620.237	4147.054	2757.414
4039.960	2621.000	4144.511	2750.177
4039.960	2621.000	4144.511	2750.264
4043.951	2620.237	4142.059	2751.287
4046.081	2617.103	4142.059	2754.257
4042.240	2617.103	4147.054	2751.287
4039.960	2620.237	4145.054	2751.287
4041.570	2620.237	4142.059	2754.257

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RELATIVE TIME

4042.240	2620.237	4140.417	2756.552
4042.240	2621.000	4143.102	2757.578
4046.231	2617.103	4143.160	2756.565
4041.570	2617.952	4147.059	2751.273
4042.240	2620.237	4142.329	2756.565
4043.951	2621.000	4142.059	2754.257
4039.960	2621.000	4143.102	2759.515
4041.570	2620.237	4147.054	2728.376
4042.240	2617.103	4143.156	2756.565
4041.570	2617.952	4146.534	2756.565

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RELATIVE TIME

4044.521	2626.037	4145.152	2761.277
4043.951	2621.000	4142.059	2751.265
4046.081	2620.235	4142.229	2757.328
4045.231	2621.000	4145.152	2757.328

4041.521	3621.866	4145.454	2767.325
4045.231	2617.952	4145.182	2766.563
4041.670	2620.231	4145.749	2764.227
4043.951	2624.047	4142.323	2763.515
4046.601	2621.050	4142.319	2764.277
4044.521	2621.065	4145.326	2764.277
RELATIVE TIME			
4046.861	2617.952	4146.611	2761.237
4046.231	2621.866	4146.759	2767.464
4044.521	2621.866	4146.047	2750.172
4043.951	2623.216	4145.182	2750.172
4046.861	2620.847	4142.589	2751.222
4046.231	2623.216	4142.989	2751.222
4046.231	2621.866	4145.182	2751.179
4041.521	2621.866	4144.611	2755.122
4046.231	2621.866	4142.529	2755.122
4046.861	2626.333	4142.323	2753.126
RELATIVE TIME			
4049.692	2626.333	4146.617	2754.564
4048.982	2624.047	4146.617	2757.126
4049.692	2624.047	4142.856	2754.264
4042.246	2622.266	4147.454	2749.525
4043.951	2624.047	4142.856	2751.273
4041.610	2623.233	4144.611	2751.523
4046.861	2621.050	4142.323	2752.672
4046.231	2624.047	4145.329	2752.742
4049.692	2626.333	4144.611	2751.273
4046.861	2624.047	4146.049	2749.126
RELATIVE TIME			
4046.231	2626.333	4146.617	2746.269
4044.521	2621.866	4142.856	2751.273
4044.521	2622.075	4145.894	2752.076
4040.511	2623.233	4142.856	2751.273
4040.511	2621.866	4144.611	2754.273
4042.951	2624.047	4142.856	2751.273
4041.610	2626.333	4142.856	2751.273
4046.231	2623.233	4142.323	2752.672
4046.861	2624.047	4145.182	2754.564
4042.511	2621.866	4142.529	2752.076
RELATIVE TIME			
4046.511	2620.231	4142.529	2752.076
4046.231	2624.047	4142.323	2752.672
4042.246	2624.047	4145.182	2752.672
4046.861	2621.866	4146.611	2755.177
4046.861	2623.216	4146.611	2755.177
4046.511	2624.047	4145.182	2757.414
4044.521	2624.047	4145.182	2757.414
4044.521	2624.047	4146.611	2757.414
4044.521	2624.047	4142.989	2758.177
RELATIVE TIME			
4046.231	2624.047	4143.182	2751.222
4046.861	2620.231	4142.856	2760.426
4046.231	2621.866	4145.182	2757.414

RELATIVE TIME	g	g	g	g
40-51.570	2635.223	4142.629	3157.414	395
40-51.575	2625.847	4142.509	3756.177	
40-51.580	2621.880	4145.142	2738.127	
40-51.585	2620.227	4145.613	2753.125	
40-51.590	2623.206	4149.176	2755.126	
40-51.595	2623.206	4142.509	2759.177	
40-52.240	2624.947	4142.509	2761.227	
40-52.245	2621.880	4147.424	2764.277	
RELATIVE TIME	g	g	g	395
40-52.250	2621.880	4146.175	2763.515	
40-52.255	2621.880	4147.142	2761.227	
40-52.260	2621.880	4145.894	2761.227	
40-52.265	2621.880	4145.894	2761.227	
40-52.270	2622.647	4142.229	2764.277	
40-52.275	2624.947	4140.617	2756.565	
40-52.280	2629.237	4145.142	2767.329	
40-52.285	2620.237	4144.613	2766.565	
40-52.290	2622.287	4149.176	2772.726	
40-52.295	2621.880	4142.182	2764.277	
40-52.300	2622.847	4144.613	2767.329	

RELATIVE TIME	g	g	g	g
40-51.570	2621.880	4142.329	3759.615	395
40-51.575	2621.880	4145.142	2757.329	
40-51.580	2617.329	4142.099	2767.329	
40-51.585	2620.237	4142.329	2756.565	
40-51.590	2622.237	4145.142	2759.615	
40-51.595	2622.237	4145.142	2759.615	
40-51.600	2621.880	4142.329	2767.329	
40-51.605	2622.237	4145.142	2759.615	
40-51.610	2621.880	4142.329	2767.329	
40-51.615	2621.880	4142.329	2767.329	
RELATIVE TIME	g	g	g	395
40-51.620	2621.880	4147.424	2766.277	
40-51.625	2624.256	4145.142	2759.615	
40-51.630	2621.880	4142.899	2756.565	
40-51.635	2621.880	4146.613	2767.329	
40-51.640	2617.329	4149.142	2764.277	
40-51.645	2617.329	4144.613	2764.277	
40-51.650	2621.880	4144.613	2759.615	
40-51.655	2622.237	4142.247	2759.615	
40-51.660	2621.880	4142.329	2756.565	
40-51.665	2617.329	4142.329	2759.615	

RELATIVE TIME	g	g	g	g
40-51.570	2617.329	4142.329	2759.615	395
40-51.575	2621.880	4144.613	2761.227	
40-51.580	2624.947	4146.617	2760.665	
40-51.585	2623.206	4141.047	2761.227	
40-51.590	2621.880	4145.142	2759.615	
40-51.595	2622.237	4145.142	2760.665	
40-51.600	2622.237	4147.424	2759.615	
40-51.605	2621.880	4142.329	2756.565	
40-51.610	2617.329	4142.329	2759.615	
RELATIVE TIME	g	g	g	395
40-51.615	2621.880	4142.329	2759.615	
40-51.620	2624.256	4142.329	2759.615	
40-51.625	2621.880	4142.329	2759.615	
40-51.630	2617.329	4142.329	2759.615	
40-51.635	2621.880	4142.329	2759.615	
40-51.640	2621.880	4142.329	2759.615	
40-51.645	2621.880	4142.329	2759.615	
40-51.650	2621.880	4142.329	2759.615	
40-51.655	2621.880	4142.329	2759.615	
RELATIVE TIME	g	g	g	395
40-51.660	2621.880	4142.329	2759.615	
40-51.665	2621.880	4142.329	2759.615	

RELATIVE TIME	g	g	g	g
40-51.570	2621.880	4146.617	2761.227	395
40-51.575	2621.880	4146.617	2761.227	
40-51.580	2621.880	4146.617	2761.227	
40-51.585	2621.880	4146.617	2761.227	
40-51.590	2621.880	4146.617	2761.227	
40-51.595	2621.880	4146.617	2761.227	
40-51.600	2621.880	4146.617	2761.227	
40-51.605	2621.880	4146.617	2761.227	
40-51.610	2621.880	4146.617	2761.227	
40-51.615	2621.880	4146.617	2761.227	
RELATIVE TIME	g	g	g	395
40-51.620	2621.880	4146.617	2761.227	
40-51.625	2621.880	4146.617	2761.227	
40-51.630	2621.880	4146.617	2761.227	
40-51.635	2621.880	4146.617	2761.227	
40-51.640	2621.880	4146.617	2761.227	
40-51.645	2621.880	4146.617	2761.227	
40-51.650	2621.880	4146.617	2761.227	
40-51.655	2621.880	4146.617	2761.227	
RELATIVE TIME	g	g	g	395
40-51.660	2621.880	4146.617	2761.227	
40-51.665	2621.880	4146.617	2761.227	

4142.249	2617.185	4142.132	2756.177
4042.249	2617.952	4147.454	2754.365
4043.951	2617.139	4144.511	2755.126
4043.951	2617.952	4142.829	2755.126
4042.249	2626.237	4142.829	2757.714
4044.521	2614.462	4144.611	2758.464
4045.801	2611.825	4143.839	2758.177
4045.801	2611.825	4142.329	2752.414
4044.521	2614.914	4140.619	2755.136
RELATIVE TIME			959
4042.249	2614.504	4142.329	2756.177
4042.249	2617.165	4144.611	2755.177
4040.511	2611.955	4143.611	2761.221
4040.511	2620.808	4142.839	2761.221
4044.521	2611.894	4141.329	2757.414
4044.521	2608.048	4142.329	2758.177
4042.249	2611.894	4140.611	2768.464
4044.521	2611.894	4143.829	2763.515
4040.511	2605.768	4146.611	2757.536
4042.249	2604.954	4142.329	2755.545
RELATIVE TIME			959
4040.511	2602.712	4142.829	2755.545
4043.951	2604.356	4146.011	2761.244
4042.249	2604.356	4145.192	2757.318
4044.521	2602.712	4145.192	2779.371
4045.801	2608.502	4146.611	2772.666
4043.951	2605.616	4142.329	2773.429
4040.511	2604.318	4142.829	2778.278
4040.511	2606.616	4142.329	2776.878
4042.249	2606.616	4143.611	2772.666
4040.511	2600.054	4140.844	2775.776
RELATIVE TIME			959
4041.864	2601.616	4142.329	2778.767
4040.511	2603.568	4142.829	2776.429
4041.864	2602.895	4142.829	2773.429
4045.801	2605.560	4147.011	2773.116
4040.511	2604.368	4146.611	2779.529
4040.792	2602.906	4148.937	2776.479
4040.511	2602.539	4144.611	2776.167
4045.801	2604.520	4146.954	2776.479
4040.511	2603.753	4142.329	2772.154
4040.511	2605.752	4142.329	2772.666
RELATIVE TIME			959
4040.511	2602.906	4140.182	2772.427
4042.249	2606.329	4142.829	2776.479
4040.511	2605.798	4142.829	2775.719
4045.801	2607.472	4147.464	2773.428
4040.511	2607.472	4142.329	2772.666
4040.511	2605.798	4143.329	2778.278
4040.511	2605.798	4144.611	2772.666
4041.864	2603.753	4140.847	2773.428
4041.864	2606.716	4142.329	2773.428
4040.511	2604.424	4140.176	2768.615
RELATIVE TIME			959

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RELATIVE TIME

2576.328	4144.011	2735.975
2575.280	4145.102	2735.752
2574.578	4146.182	2734.925
2573.786	4147.059	2732.183
2572.566	4147.694	2729.873
2571.368	4148.182	2727.162
2570.364	4148.611	2724.252
2574.310	4149.511	2742.918
2575.288	4149.899	2739.873
2575.288	4148.094	2736.832

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53

RELATIVE TIME

2576.328	4147.059	2735.624
2575.280	4148.329	2739.112
2573.786	4147.511	2736.034
2574.578	4148.182	2737.112
2575.288	4148.182	2736.624
2572.566	4148.611	2739.724
2573.266	4147.694	2735.774
2580.514	4149.611	2733.012
2578.328	4148.547	2733.891
2577.368	4147.329	2730.361

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54

RELATIVE TIME

2575.280	4146.894	2737.673
2576.614	4147.599	2729.622
2581.328	4147.829	2726.911
2581.321	4148.182	2739.624
2577.366	4148.899	2724.873
2575.288	4148.746	2726.622
2578.328	4149.611	2728.611
2577.366	4147.254	2736.616
2575.288	4148.677	2718.822
2580.514	4148.847	2726.624

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RELATIVE TIME

2575.288	4147.328	2736.810
2576.614	4149.611	2735.822
2579.328	4148.176	2717.761
2578.328	4147.328	2717.268
2577.868	4147.039	2719.828
2578.202	4148.611	2717.260
2575.288	4149.517	2717.750
2575.288	4147.259	2717.768
2575.288	4148.329	2714.789
2577.566	4147.899	2714.759

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56

RELATIVE TIME

2576.328	4144.611	2719.522
2574.789	4147.329	2728.819
2576.708	4148.182	2729.018
2575.288	4148.182	2728.018
2575.288	4148.654	2717.759
2575.288	4148.182	2716.522
2576.328	4148.611	2729.715
2577.368	4148.182	2724.673
2579.514	4147.329	2725.654

RELATIVE TIME	2572.232	4146.824	2721.577
	g	g	g
4046.231	2572.232	4146.824	2721.577
4047.951	2572.232	4147.464	2721.577
4049.091	2574.368	4148.328	2721.577
4049.951	2578.328	4148.168	2724.523
4049.951	2579.288	4148.328	2727.573
4049.902	2572.232	4148.617	2726.911
4046.231	2572.232	4148.168	2728.911
4048.911	2571.478	4148.099	2724.623
4048.911	2571.478	4148.099	2724.623
4049.911	2573.248	4148.099	2729.951
4049.911	2573.248	4148.099	2729.951
4049.911	2573.248	4148.099	2729.951
RELATIVE TIME	g	g	g
4046.231	2571.478	4148.099	2728.294
4048.911	2572.232	4147.464	2727.573
4048.911	2572.732	4147.464	2728.911
4048.951	2578.099	4148.168	2746.911
4049.921	2575.288	4148.611	2733.294
4049.951	2572.232	4148.099	2738.294
4049.911	2572.232	4148.168	2739.294
4049.911	2573.164	4147.464	2727.573
4049.911	2572.232	4148.099	2728.911
4049.949	2574.518	4148.611	2737.673
RELATIVE TIME	g	g	g
4049.951	2574.518	4148.168	2738.294
4049.951	2571.478	4148.099	2738.294

OFF-LINE PLOT

I.R.T. STEP 8.3 8/16/84

FILE # 1

RUN # 1

DATE 8/16/84

TIME @ START OF RUN 2:24:37:18

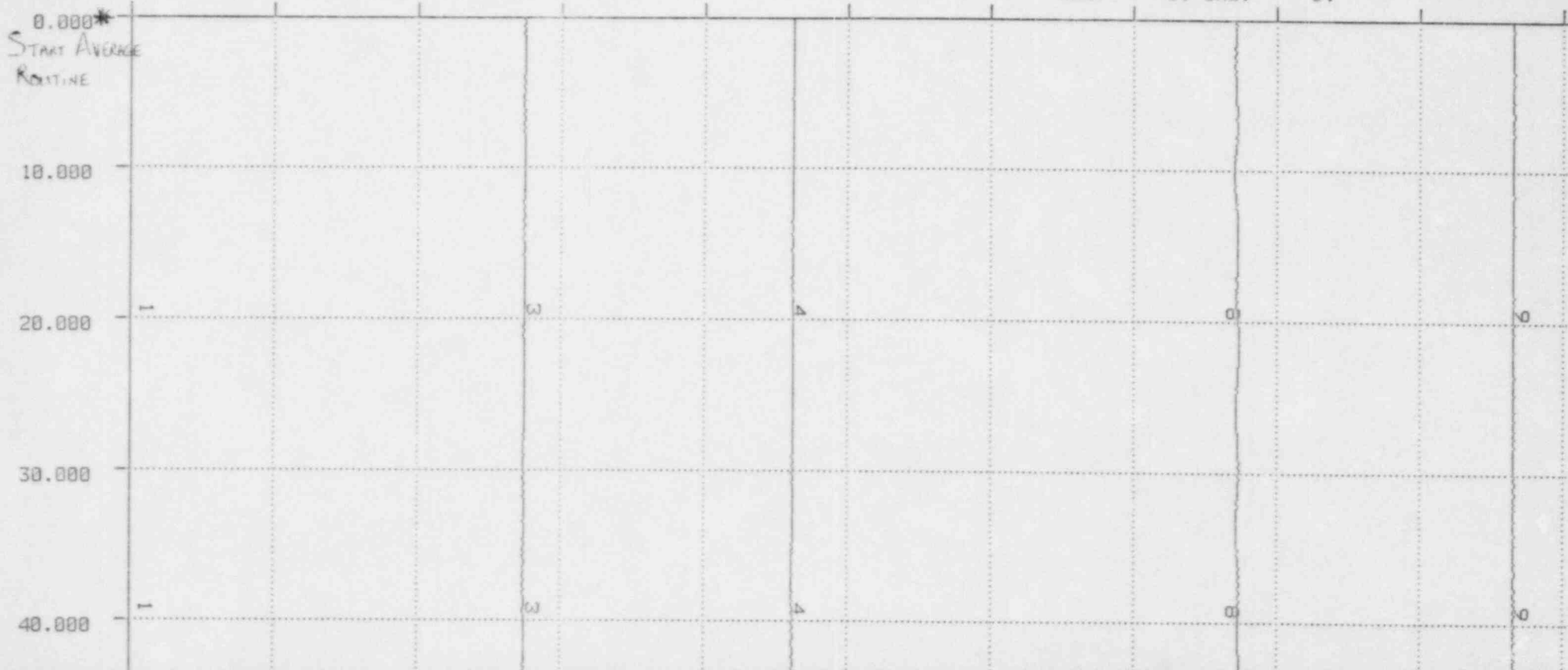
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10.000SEC./GRID LINE

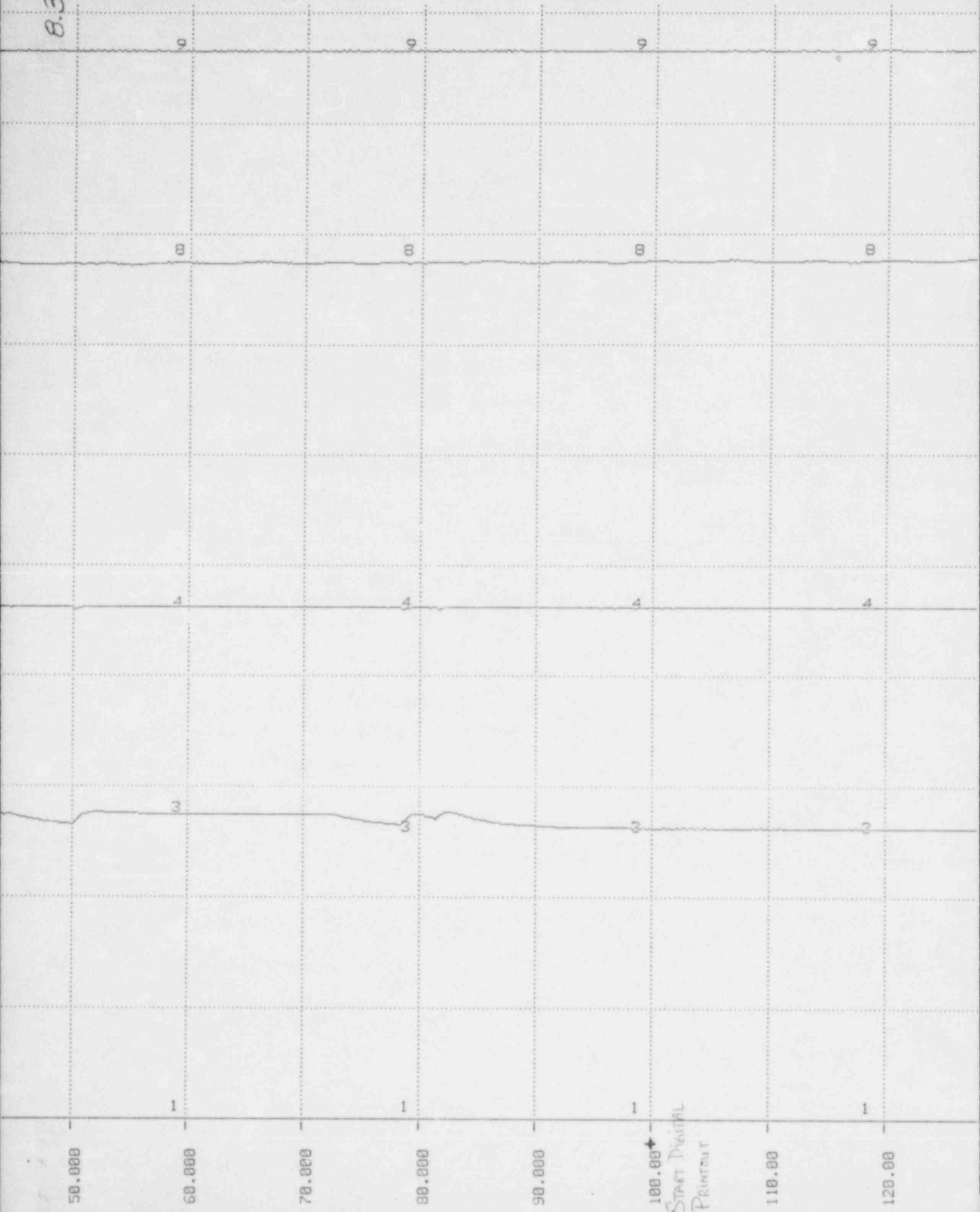
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 OFF 2000.0 OFF 0.0
 ORG. 3. ORG. 4.

CHAN# 207 CHAN# 205
 DG102KW DG102VLT
 KW VAC
 EU 1000.0 EU 2500.0
 OFF 2000.0 OFF 0.0
 ORG. 8. ORG. 9.



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START DIGITAL
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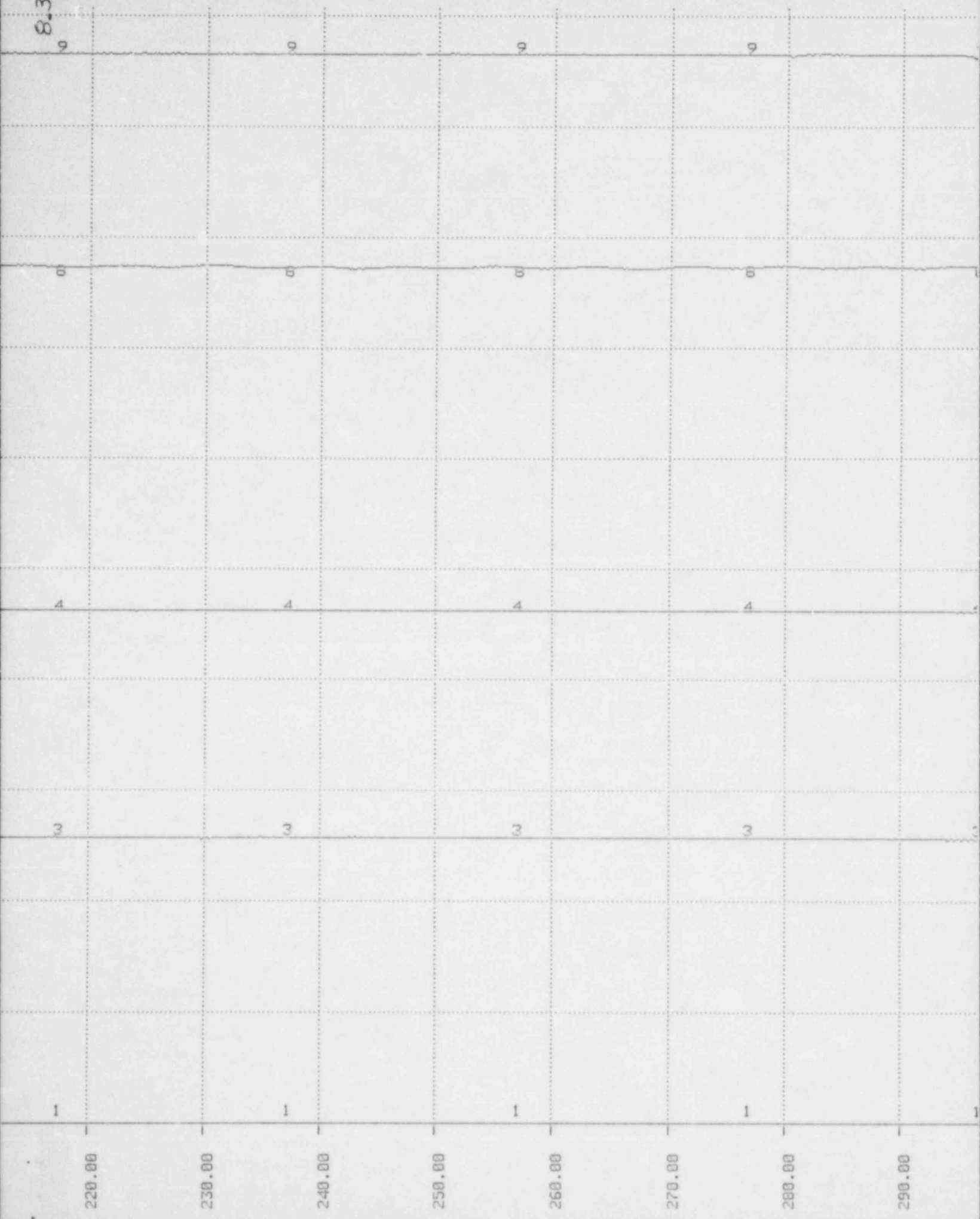
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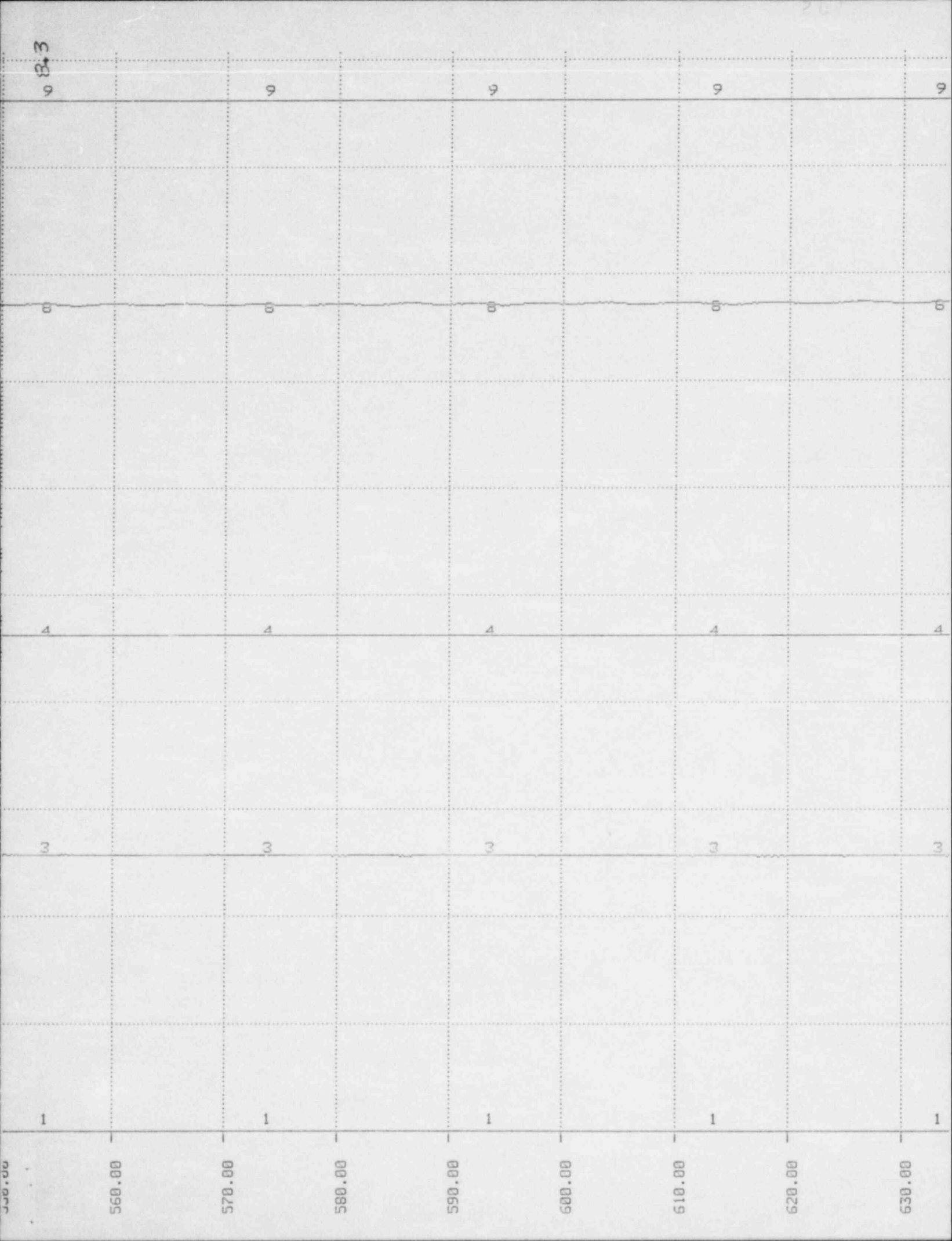
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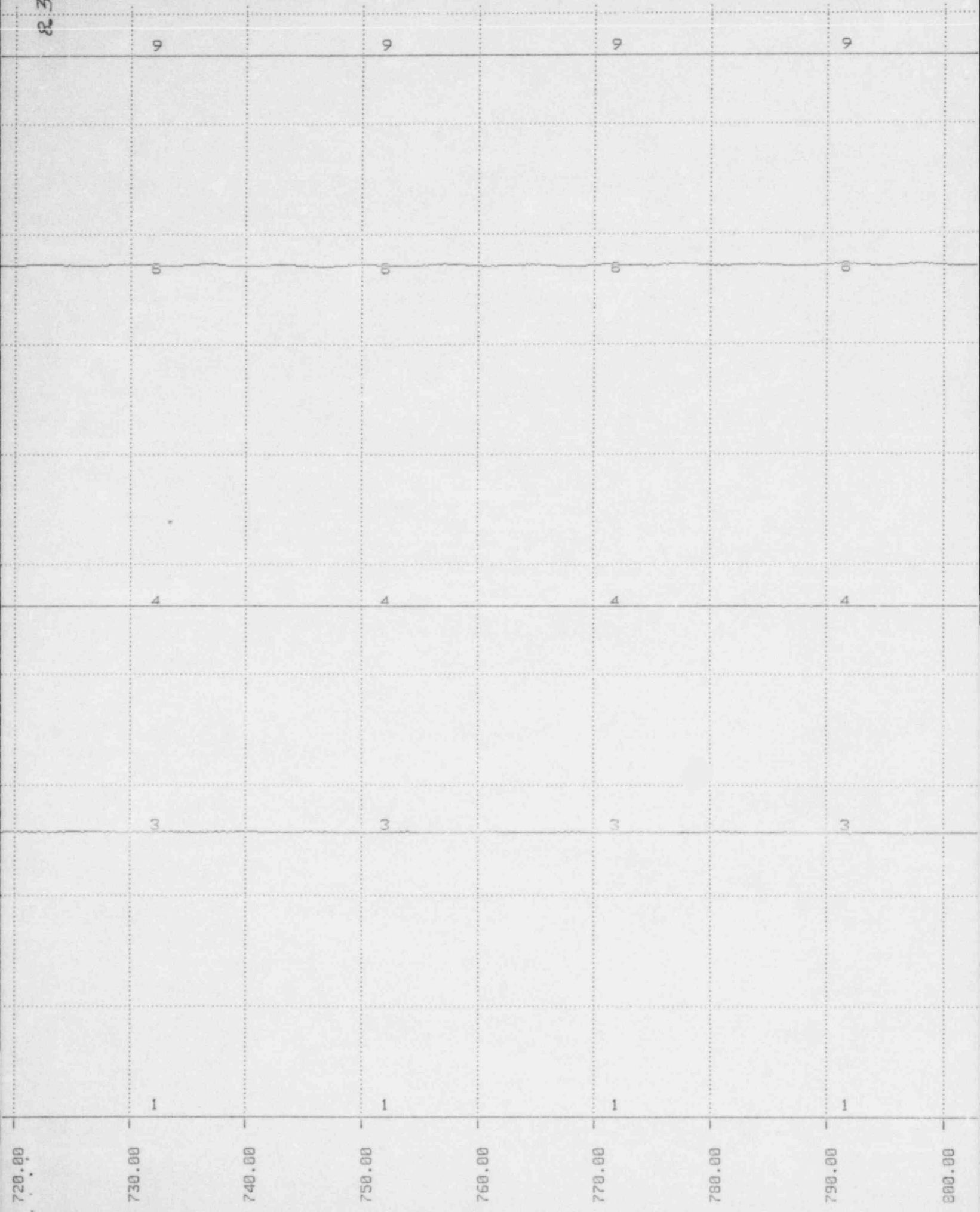
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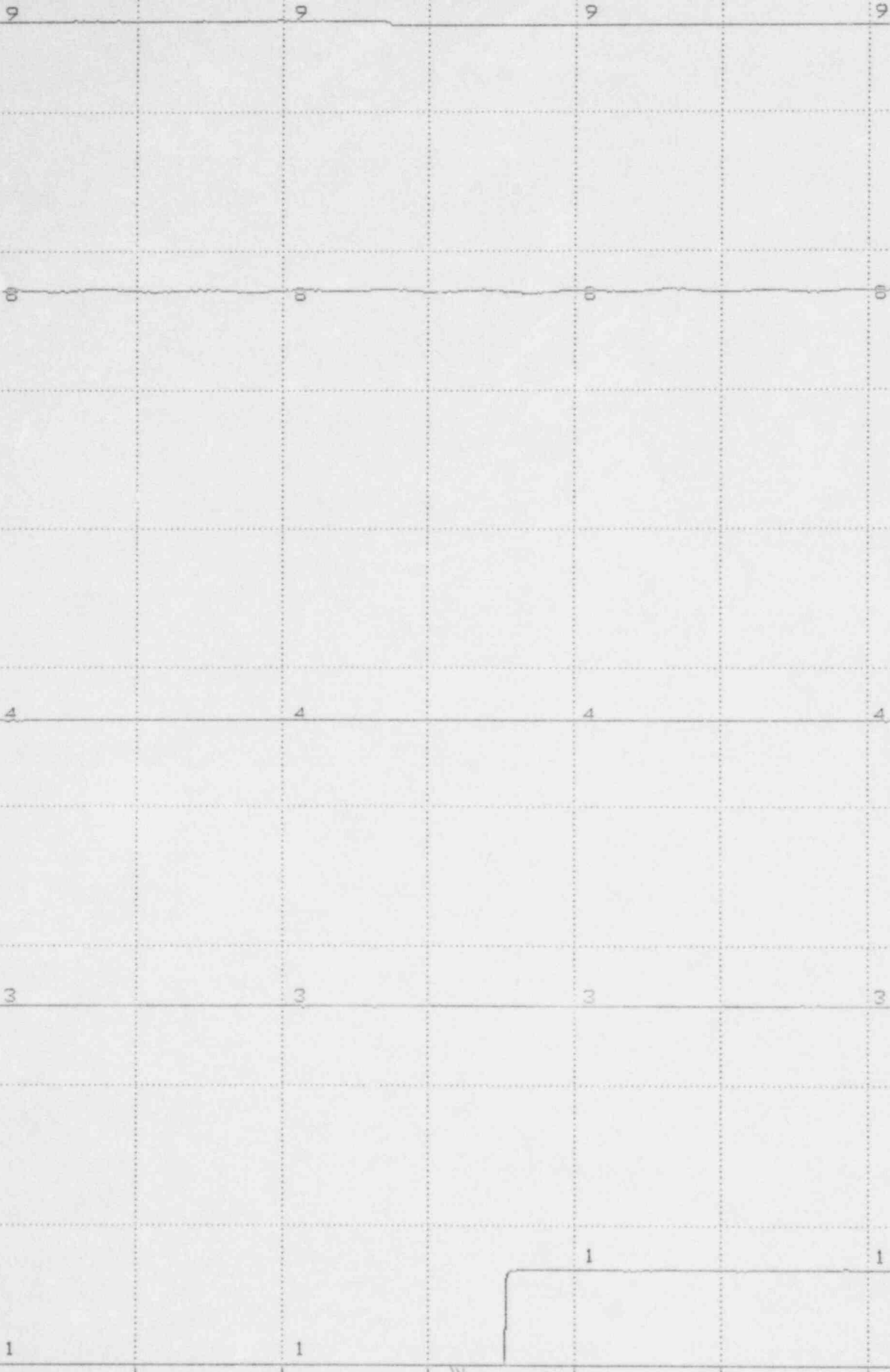
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STOP AVERAGE
ROUTINE



Step 8.4

I.E.T. STEP 8.4 2/15/84

FILE #9999

MIN #

DATE 8/15/84

TIME @ START OF RUN 4:47:47.10

BEGINNING AT 202.00 DECS. FROM START OF RUN

CHON#	200	CHON#	200	CHON#	210	CHON#	212
DEVELOP	DEVELOP	DEVELOP	DEVELOP	DEVELOP	DEVELOP	DEVELOP	DEVELOP
VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR
RELATIVE TIME	RELATIVE TIME	RELATIVE TIME	RELATIVE TIME	RELATIVE TIME	RELATIVE TIME	RELATIVE TIME	RELATIVE TIME
4842.240	2500.857	4171.242	2002.175				
4842.240	2500.857	4174.186	2005.229				
4844.521	2757.782	4175.824	2005.991				
4845.951	2890.867	4176.397	2002.538				
4846.231	2888.858	4176.397	2002.928				
4846.601	2869.367	4175.533	2002.175				
4846.881	2797.929	4174.815	2005.229				
4841.678	2797.782	4171.815	2005.991				
4845.951	2797.782	4171.815	2005.229				
RELATIVE TIME							
4842.951	2890.867	4173.535	2002.175				
4844.521	2500.857	4174.186	2005.229				
4846.881	2757.782	4173.533	2002.928				
4844.521	2890.867	4174.186	2005.991				
4846.231	2797.782	4175.824	2002.538				
4843.951	2797.782	4176.397	2002.175				
4838.358	2561.115	4176.397	2005.229				
4842.240	2869.367	4174.815	2005.991				
4846.081	2757.782	4173.042	2002.175				
4842.240	2797.782	4171.815	2005.991				
RELATIVE TIME							
4841.678	2797.782	4175.824	2002.175				
4842.951	2797.782	4176.397	2002.928				
4842.240	2797.782	4176.397	2005.991				
4839.250	2603.115	4176.397	2005.229				
4842.240	2500.857	4173.533	2002.928				
4839.968	2797.782	4173.533	2002.175				
4839.968	2797.782	4175.824	2005.229				
4841.981	2797.782	4176.397	2002.175				
4842.951	2599.867	4173.533	2005.991				
4844.521	2888.858	4174.186	2002.175				
RELATIVE TIME							
4841.981	2888.858	4175.824	2002.928				
4839.968	2797.782	4175.824	2002.175				
4839.968	2888.858	4176.397	2005.991				
4842.240	2599.867	4176.397	2002.175				
4844.521	2888.858	4175.824	2002.928				
4844.521	2888.858	4173.533	2002.175				
4845.951	2888.858	4171.815	2002.928				
4845.951	2754.753	4173.533	2005.991				
4840.231	2797.782	4175.824	2002.175				
4842.240	2803.115	4178.115	2005.991				

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RELATIVE TIME

4841.670	2983.115	4176.115	2975.123
4842.248	2606.836	4176.337	2982.175
4846.243	2606.057	4173.824	2992.179
4842.240	2606.857	4175.874	2982.930
4841.677	2606.858	4175.337	2982.175
4843.931	2797.620	4175.824	2982.930
4844.521	2800.857	4173.533	2979.886
4843.931	2606.836	4175.337	2982.175
4844.521	2797.782	4173.024	2982.930
4841.679	2757.826	4173.119	2982.175

RELATIVE TIME

4841.678	3300.857	4189.485	3009.886
4841.678	2806.836	4173.888	2973.886
4842.246	2813.179	4175.337	2979.886
4842.521	2800.836	4175.824	2982.930
4841.521	2846.836	4173.824	2982.179
4845.231	2737.826	4173.024	2982.930
4845.231	2797.782	4174.620	2982.538
4842.240	2982.115	4176.826	2975.123
4844.521	2982.877	4178.115	2975.123
4846.801	2980.828	4176.337	2982.930

RELATIVE TIME

4842.851	2606.836	4178.888	2982.175
4840.601	2797.826	4176.337	2982.930
4846.231	2606.836	4189.485	2979.886
4845.861	2882.857	4178.115	2979.886
4844.521	2909.857	4173.888	2978.886
4848.911	2860.836	4175.824	2982.930
4846.801	2797.782	4173.888	2982.930
4848.511	2797.876	4189.379	2982.930
4846.231	2757.782	4189.485	2979.886
4842.840	2980.857	4189.379	2982.930

RELATIVE TIME

4848.931	2800.857	4179.888	2979.886
4846.231	2806.836	4173.888	2979.886
4844.521	2806.857	4173.888	2982.175
4846.861	2757.782	4170.888	2975.123
4842.851	2882.857	4189.379	2979.886
4843.931	2800.115	4189.379	2982.930
4848.931	2806.836	4179.888	2979.886
4849.882	2806.857	4189.485	2979.886
4846.231	2800.836	4189.379	2979.886
4844.521	2806.857	4182.857	2979.886

RELATIVE TIME

4846.231	2603.877	4189.379	2979.886
4844.521	2603.877	4189.379	2979.886
4846.231	2803.115	4189.485	2979.886
4840.882	2803.857	4189.485	2979.886
4849.882	2797.826	4189.379	2979.886
4846.231	2980.836	4189.379	2979.886
4846.231	2806.857	4182.857	2979.886
4846.231	2803.115	4189.379	2979.886
4844.521	2806.826	4189.379	2979.886
4846.801	2803.115	4189.485	2979.886

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RELATIVE TIME	0	18	900
4046.231	2800.039	4194.776	2885.220
4051.362	2797.828	4194.152	2889.844
4051.767	2797.792	4197.317	2893.846
RELATIVE TIME	0	0	0
4055.032	2800.157	4196.444	2895.991
4059.002	2803.119	4198.733	2895.720
4059.742	2805.657	4197.817	2895.991
4059.002	2808.039	4199.775	2894.261
4058.732	2797.692	4198.735	2898.791
4049.002	2797.828	4198.735	2895.831
4049.511	2804.115	4198.735	2896.220
4046.001	2806.025	4197.817	2897.930
4053.073	2800.030	4194.726	2894.991
4049.002	2803.077	4197.317	2895.891
RELATIVE TIME	0	0	0
4046.001	2804.067	4195.775	2893.220
4046.201	2803.077	4194.509	2891.991
4046.001	2806.025	4199.390	2895.910
4051.792	2803.077	4199.735	2895.725
4049.002	2803.077	4198.441	2893.20
4043.002	2800.030	4197.017	2896.701
4046.211	2800.000	4196.444	2895.951
4043.001	2800.000	4196.735	2897.091
4044.521	2803.077	4198.735	2897.599
4040.911	2803.077	4190.735	2894.729
RELATIVE TIME	0	0	0
4051.362	2800.167	4198.735	2896.201
4051.362	2797.828	4199.509	2897.791
4046.231	2800.030	4201.529	2894.720
4049.511	2801.067	4198.735	2893.831
4046.231	2803.115	4199.390	2897.730
4050.792	2800.030	4199.720	2895.791
4053.072	2797.702	4194.726	2894.791
4049.002	2803.077	4198.735	2893.991
4046.231	2797.702	4201.020	2895.290
4049.002	2797.828	4198.302	2894.911
RELATIVE TIME	0	0	0
4044.521	2800.029	4201.959	2896.175
4040.002	2797.828	4198.735	2895.230
4040.231	2797.702	4198.735	2895.971
4049.002	2793.972	4198.444	2893.201
4044.521	2797.702	4193.700	2893.691
4046.201	2797.828	4199.505	2895.091
4049.001	2800.167	4190.735	2895.911
4050.772	2797.828	4199.508	2895.829
4046.231	2797.702	4201.509	2894.991
4040.002	2797.828	4201.020	2895.201
RELATIVE TIME	0	0	0
4046.231	2799.750	4200.059	2895.591
4044.521	2800.067	4201.020	2895.991
4046.201	2800.030	4198.735	2893.530
4051.792	2797.784	4197.017	2895.991
4049.002	2800.030	4198.735	2896.791
4040.002	2794.735	4199.500	2896.201

4844.331	2988.867	4381.599	2107.228
4846.301	2989.867	4381.626	2105.326
4848.601	2990.868	4381.625	2103.278
4849.631	2991.867	4381.599	2099.991
RELATIVE TIME	516	B	23
4846.231	2988.867	4381.655	2098.791
4848.602	2797.762	4381.626	2095.944
4849.631	2737.762	4198.735	2069.604
4846.521	2688.868	4198.735	2039.591
4846.511	2688.867	4198.735	2038.281
4849.602	2797.762	4198.735	2031.634
4848.951	2797.762	4201.626	2029.654
4846.001	2794.735	4281.599	2019.944
4844.521	2797.762	4281.626	2023.261
4846.001	2988.868	4198.735	2083.591
RELATIVE TIME	516	B	24
4846.301	2989.867	4197.817	2078.291
4846.231	2989.867	4197.817	2077.634
4849.602	2797.762	4196.444	2079.604
4846.001	2797.762	4198.735	2077.281
4846.031	2797.762	4198.735	2076.931
4846.001	2688.867	4281.626	2078.281
4849.602	2797.762	4198.735	2076.934
4846.231	2797.762	4198.735	2076.231
4846.311	2797.762	4198.735	2075.991
4846.001	2797.762	4198.735	2075.291
RELATIVE TIME	516	B	25
4846.001	2988.867	4196.735	2070.744
4846.011	2797.762	4197.017	2068.221
4846.211	2989.867	4197.017	2067.721
4846.061	2797.762	4197.817	2072.107
4846.001	2794.735	4198.735	2070.834
4849.601	2797.762	4381.599	2073.764
4849.602	2797.762	4198.735	2072.731
4846.331	2688.868	4198.735	2071.191
4849.602	2797.762	4198.735	2071.191
4849.602	2797.762	4196.444	2069.944
4849.602	2794.735	4197.017	2065.834
4849.601	2688.868	4197.017	2067.291
4849.602	2988.867	4194.736	2059.288
4843.002	2688.868	4194.736	2043.228
RELATIVE TIME	516	B	27
4848.767	2988.867	4194.155	2039.261
4849.602	2797.762	4197.017	2038.291
4844.521	2588.867	4198.735	2063.991
4844.021	2883.115	4199.289	2059.228
4843.951	2883.115	4199.309	2057.428

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RELATIVE TIME

4849.002	2000.667	4194.720	2915.951
4846.001	2100.672	4194.726	2915.944
4845.002	2000.670	4194.726	2917.991
4845.511	2100.670	4194.726	2925.991
4845.991	2025.113	4197.817	2925.930
4847.991	2003.077	4196.444	2922.175
4848.511	2003.530	4196.444	2923.223
4849.511	2003.067	4196.444	2925.228
4846.991	2006.667	4197.817	2929.844
4847.991	2006.130	4196.444	2925.226
4848.991	2003.115	4194.726	2922.156
4849.991	2006.130	4196.444	2922.522
4846.511	2005.667	4197.817	2925.228
4848.792	2006.667	4194.726	2925.991
4846.991	2000.670	4197.817	2925.226

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RELATIVE TIME

4843.991	2005.277	4197.817	2925.991
4846.791	2006.130	4197.817	2922.175
4849.632	2003.077	4196.444	2921.270
4851.562	2000.670	4194.726	2921.226
4847.562	2757.723	4197.817	2927.991
4849.521	2006.667	4192.435	2926.531
4849.521	2003.115	4194.726	2927.978
4846.001	2003.115	4194.726	2926.220
4845.091	2002.115	4194.726	2927.978
4846.001	2000.670	4193.435	2926.991

999

RELATIVE TIME

4849.887	2137.752	4191.011	2921.991
4846.787	2313.115	4194.726	2927.926
4847.511	2028.067	4192.435	2927.978
4849.511	2003.175	4191.011	2927.978
4849.521	2100.000	4190.144	2927.978
4847.002	2137.792	4190.144	2927.978
4846.521	2103.030	4191.011	2927.978
4847.581	2100.067	4194.726	2927.978
4849.002	2103.030	4197.817	2927.978
4849.511	2000.670	4191.011	2927.978

999

RELATIVE TIME

4846.001	2002.977	4191.011	2927.926
4849.002	2003.067	4194.726	2927.978
4847.991	2000.137	4193.144	2927.978
4847.280	2100.630	4190.144	2927.978
4846.991	2006.067	4190.144	2927.978
4849.511	2003.077	4194.726	2927.978
4846.221	2000.630	4190.144	2927.978
4846.001	2000.630	4190.144	2927.978
4849.000	2757.723	4191.011	2927.978
4846.001	2757.723	4190.144	2927.978

999

RELATIVE TIME

4841.670	2007.007	4190.144	2927.978
4847.240	2007.115	4192.435	2927.978
4844.511	2006.667	4197.817	2927.978
4848.511	2757.020	4197.817	2927.978

999

RELATIVE TIME

4040.511	2797.628	4199.144	2895.981
4045.231	2599.848	4199.144	2895.981
4045.361	2803.145	4199.570	2895.981
4044.521	2599.677	4199.570	2895.981
4044.521	2600.867	4197.153	2895.981
4044.521	2797.762	4199.073	2895.981
4043.511	2600.867	4197.379	2895.981
4045.231	2797.762	4197.379	2895.981
4044.521	2603.677	4197.653	2895.981
4045.001	2903.657	4207.052	2895.981
4045.231	2600.867	4197.379	2895.981
4040.511	2797.628	4197.057	2895.981
4044.521	2797.628	4198.444	2895.981
4042.240	2600.867	4197.653	2895.981
4043.511	2600.867	4199.958	2895.981
4043.511	2797.762	4197.371	2895.981

999

RELATIVE TIME

4051.262	2797.762	4197.371	2895.981
4046.231	2797.762	4197.379	2895.981
4040.511	2797.762	4197.379	2895.981
4044.521	2600.867	4197.653	2895.981
4042.240	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4198.444	2895.981
4043.511	2797.762	4198.444	2895.981
4041.070	2797.762	4198.444	2895.981
4042.240	2600.867	4197.653	2895.981
4043.511	2797.762	4197.371	2895.981

999

RELATIVE TIME

4040.511	2797.762	4197.371	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981

999

RELATIVE TIME

4045.231	2797.762	4197.379	2895.981
4045.231	2600.867	4197.653	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981
4043.511	2797.762	4197.379	2895.981

999

RELATIVE TIME

4040.511	2797.628	4197.371	2895.981
4040.511	2797.762	4197.379	2895.981
4042.240	2600.867	4197.653	2895.981

100

RELATIVE TIME

4046.501	2000.567	4100.426	2752.933
4046.501	2797.328	4176.939	2815.228
4046.511	2734.733	4173.500	2817.214
4046.511	2797.628	4199.406	2827.551
4046.501	2669.057	4100.579	2682.220
4046.501	2569.857	4165.096	2582.934
4046.521	2653.838	4189.979	2553.946
4046.511	2688.839	4129.979	2605.228
4046.521	2683.838	4155.436	2635.551
4046.501	2757.732	4100.406	2702.933
4046.501	2504.836	4179.397	2627.175
4046.502	2688.838	4176.397	2657.278
4046.502	2737.732	4175.397	2710.388
4046.511	2737.628	4154.115	2703.291
4046.501	2737.628	4100.579	2702.933
4046.521	2612.115	4106.379	2577.936

300

RELATIVE TIME

4046.511	2688.838	4100.579	2577.936
4046.511	2737.732	4179.115	2642.979
4046.502	2797.628	4175.624	2645.300
4046.502	2754.732	4176.397	2705.551
4046.502	2797.628	4175.397	2695.374
4046.521	2669.857	4179.628	2643.939
4046.502	2688.838	4179.628	2705.228
4046.501	2689.837	4176.397	2710.200
4046.511	2688.838	4179.115	2675.379
4046.501	2688.838	4175.115	2675.931

400

RELATIVE TIME

4051.362	2797.628	4176.628	2675.979
4047.892	2612.115	4176.115	2632.936
4049.922	2687.715	4175.924	2692.175
4051.362	2687.877	4174.115	2712.930
4049.942	2669.857	4177.624	2669.228
4051.362	2737.732	4174.397	2685.228
4048.511	2683.115	4198.406	2682.933
4053.792	2603.115	4176.115	2752.175
4049.942	2636.115	4179.115	2675.123
4051.362	2685.115	4175.624	2672.966

500

RELATIVE TIME

4053.971	2688.838	4175.924	2682.979
4046.502	2628.838	4176.327	2662.175
4049.932	2683.677	4176.397	2673.606
4051.362	2609.678	4175.624	2676.075
4053.971	2628.838	4175.924	2675.976
4051.362	2689.838	4175.624	2682.933
4054.792	2688.838	4177.115	2692.979
4053.792	2688.838	4175.397	2682.175
4051.362	2688.838	4174.115	2679.666

600

RELATIVE TIME

4053.972	2688.838	4171.315	2682.175
4053.642	2686.628	4171.315	2687.936

4001.702 2300.067 4174.155 2002.175
 4040.002 2000.067 4174.337 2002.175
 4040.511 2000.067 4170.606 2004.065
 4040.902 2003.077 4170.566 2009.225
 4053.072 2000.067 4170.397 2002.539
 4055.303 2707.656 4173.533 2005.391
 4040.511 2707.792 4176.237 2005.256
 4057.642 2707.792 4175.034 2002.936

RELATIVE TIME

4001.702 2000.067 4176.397 2002.175
 4040.002 2000.067 4175.037 2007.175
 4040.511 2000.067 4176.337 2007.934
 4040.902 2707.792 4175.024 2005.504
 4053.072 2707.792 4176.337 2007.934
 4055.303 2707.792 4176.337 2007.934
 4040.511 2707.792 4176.337 2007.934
 4057.642 2707.792 4176.337 2007.934

RELATIVE TIME

4001.702 2707.792 4176.397 2002.175
 4040.002 2707.792 4176.397 2002.175
 4040.511 2707.792 4175.034 2007.934
 4040.902 2707.792 4175.034 2007.934
 4053.072 2707.792 4174.155 2002.175
 4055.303 2707.792 4175.034 2007.934
 4040.511 2707.792 4175.034 2007.934
 4057.642 2707.792 4174.155 2002.175

RELATIVE TIME

4001.702 2707.792 4175.034 2007.934
 4040.002 2707.792 4175.034 2007.934
 4040.511 2707.792 4174.155 2002.175
 4040.902 2707.792 4174.155 2002.175
 4053.072 2707.792 4175.034 2007.934
 4055.303 2707.792 4174.155 2002.175
 4040.511 2707.792 4175.034 2007.934
 4057.642 2707.792 4174.155 2002.175

RELATIVE TIME

4001.702 2000.067 4176.337 2007.934
 4040.002 2000.067 4176.337 2007.934
 4040.511 2000.067 4174.155 2002.175
 4040.902 2000.067 4174.155 2002.175
 4053.072 2000.067 4175.034 2007.934
 4055.303 2000.067 4176.337 2007.934
 4040.511 2000.067 4175.034 2007.934
 4057.642 2000.067 4176.337 2007.934

RELATIVE TIME

4001.702 2707.792 4170.606 2004.065
 4040.002 2707.792 4170.606 2004.065
 4040.511 2707.792 4170.606 2004.065
 4040.902 2707.792 4170.606 2004.065
 4053.072 2707.792 4170.606 2004.065
 4055.303 2707.792 4170.606 2004.065
 4040.511 2707.792 4170.606 2004.065
 4057.642 2707.792 4170.606 2004.065

4053.642	2797.702	4179.115	2879.125
4053.642	2800.657	4175.524	2879.966
4053.642	2797.762	4173.332	2883.175
4053.672	2803.972	4173.333	2882.750
4049.802	2800.867	4176.397	2852.178
4049.801	2800.838	4179.098	2879.836
4051.852	2803.839	4176.397	2883.865
4053.872	2800.830	4176.397	2879.855
4053.872	2797.792	4176.397	2852.936

RELATIVE TIME

999

51

4051.382	2800.638	4179.115	2892.538
4048.511	2800.657	4176.397	2792.175
4048.511	2800.628	4176.397	2885.238
4048.511	2800.838	4176.397	2889.852
4048.511	2800.838	4179.668	2883.936
4048.511	2800.877	4178.115	2792.528
4051.382	2800.638	4178.115	2886.938
4053.872	2800.638	4179.115	2879.228
4053.872	2800.657	4180.379	2800.844
4048.511	2800.792	4180.405	2855.728
4048.511	2800.857	4180.405	2855.228

RELATIVE TIME

999

51

4054.982	2800.657	4180.405	2892.538
4048.511	2803.677	4176.397	2883.175
4049.802	2800.838	4176.397	2883.175
4051.382	2797.782	4179.668	2889.844
4051.382	2797.628	4180.405	2886.251
4049.802	2800.857	4182.171	2883.891
4049.802	2800.877	4182.171	2882.891
4049.802	2800.838	4180.405	2885.236
4053.872	2800.857	4180.405	2885.236
4049.802	2800.857	4179.668	2883.228
4053.872	2797.628	4182.171	2886.251
4051.382	2800.638	4182.171	2883.891
4049.802	2800.877	4180.405	2883.891
4051.382	2800.638	4180.405	2883.891

RELATIVE TIME

999

51

4054.982	2800.657	4180.405	2892.538
4050.792	2800.867	4186.975	2883.175
4051.382	2800.857	4180.405	2883.228
4053.872	2800.838	4179.668	2883.228
4053.872	2800.857	4182.171	2883.891
4051.382	2800.638	4182.171	2883.891
4049.802	2800.857	4180.405	2883.891
4051.382	2800.638	4180.405	2883.891

RELATIVE TIME

999

51

4051.382	2800.638	4180.405	2892.538
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RELATIVE TIME

999

51

RELATIVE TIME	u	v	w
4053.643	4176.686	2997.620	2309.644
4051.962	4191.271	2998.630	2409.291
4051.362	4194.960	2993.077	2335.230
4050.792	4185.362	2983.077	2305.175
4053.642	4202.567	2990.030	2308.031
4053.642	4192.197	2994.657	2329.230
4045.042	4182.697	2983.077	2329.230
4045.042	4164.980	2990.030	2335.230
4049.032	4165.271	2990.030	2305.230
4049.032	4184.900	2992.175	2305.230
4053.642	4185.271	2998.630	2362.938
4051.962	4185.271	2997.762	2375.230
4051.962	4185.562	2990.030	2375.230
4049.032	4197.053	2997.762	2375.230
4046.041	4187.053	2990.030	2375.230
4044.52	4167.279	2980.030	2317.030
4049.031	4185.562	2990.030	2367.931
4049.031	4187.279	2997.762	2375.230
4046.041	4187.279	2990.030	2375.230
4046.041	4187.053	2990.030	2375.230
4040.911	4187.279	2993.077	2317.030
4050.792	4185.279	2983.077	2305.230
4050.792	4187.653	2980.030	2305.230
4050.792	4191.144	2997.620	2365.931
4046.041	4181.261	2997.620	2367.931
4049.031	4180.570	2983.077	2365.931
4045.041	4197.053	2990.030	2375.230
4050.792	4185.562	2990.030	2375.230
4053.642	4185.562	2997.620	2375.230
4049.031	4187.279	2990.030	2375.230
4051.962	4191.144	2997.620	2375.230
4050.792	4191.144	2990.030	2375.230
4049.031	4180.144	2989.030	2375.230
RELATIVE TIME	u	v	w
4050.792	4180.144	2980.030	2365.931
4046.041	4185.570	2997.620	2367.931
4050.792	4189.079	2997.620	2367.931
4049.031	4191.144	2997.620	2367.931
4046.041	4187.653	2990.030	2367.931
4046.041	4189.079	2990.030	2367.931
4053.642	4187.279	2997.620	2367.931
4050.792	4191.144	2997.620	2367.931
4049.031	4180.144	2989.030	2367.931
RELATIVE TIME	u	v	w
4050.792	4180.144	2980.030	2365.931
4046.041	4185.570	2997.620	2367.931
4050.792	4189.079	2997.620	2367.931
4049.031	4191.144	2997.620	2367.931
4046.041	4187.653	2990.030	2367.931
4046.041	4189.079	2990.030	2367.931
4053.642	4187.279	2997.620	2367.931
4050.792	4191.144	2997.620	2367.931
4049.031	4180.144	2989.030	2367.931
RELATIVE TIME	u	v	w
4050.792	4180.144	2980.030	2365.931
4046.041	4185.570	2997.620	2367.931
4050.792	4189.079	2997.620	2367.931
4049.031	4191.144	2997.620	2367.931
4046.041	4187.653	2990.030	2367.931
4046.041	4189.079	2990.030	2367.931
4053.642	4187.279	2997.620	2367.931
4050.792	4191.144	2997.620	2367.931
4049.031	4180.144	2989.030	2367.931
RELATIVE TIME	u	v	w
4050.792	4180.144	2980.030	2365.931
4046.041	4185.570	2997.620	2367.931
4050.792	4189.079	2997.620	2367.931
4049.031	4191.144	2997.620	2367.931
4046.041	4187.653	2990.030	2367.931
4046.041	4189.079	2990.030	2367.931
4053.642	4187.279	2997.620	2367.931
4050.792	4191.144	2997.620	2367.931
4049.031	4180.144	2989.030	2367.931

RELATIVE TIME	a	b	c	d	e
4849.862	2003.145	4191.661	2007.320	57	239
4849.511	2003.115	4196.144	2005.954		
4853.642	2009.782	4199.578	2005.591		
4849.892	2007.782	4187.852	2005.834		
4846.801	2007.182	4190.494	2005.520		
4851.362	2007.782	4192.435	2005.991		
4849.862	2009.036	4192.435	2005.524		
4853.642	2007.782	4189.520	2005.228		
4853.872	2007.782	4190.144	2005.991		
4849.511	2007.828	4192.435	2005.261	59	989
RELATIVE TIME	a	b	c	d	e
4846.231	2003.867	4189.435	2005.991		
4844.521	2009.036	4181.051	2002.936		
4846.891	2003.115	4181.861	2002.175		
4848.511	2003.145	4158.144	2005.526		
4853.872	2007.828	4181.861	2005.521		
4849.091	2009.838	4184.728	2005.991		
4849.511	2005.862	4184.152	2005.226		
4846.231	2003.892	4159.726	2005.125		
4853.872	2009.867	4194.182	2005.991		
4849.292	2004.836	4192.435	2005.228	59	989
RELATIVE TIME	a	b	c	d	e
4850.792	2006.938	4189.576	2005.228		
4851.362	2007.782	4191.861	2005.991		

8.f

OFF-LINE PLOT
 J.E.T. STEP 0.4 8/15/84
 FILE # 3
 RUN # 2
 DATE 8/15/84
 TIME @ START OF RUN 4:47:47.18
 BEGINNING AT 235.00 SECS. FROM START OF RUN

10.000SEC./GRID LINE

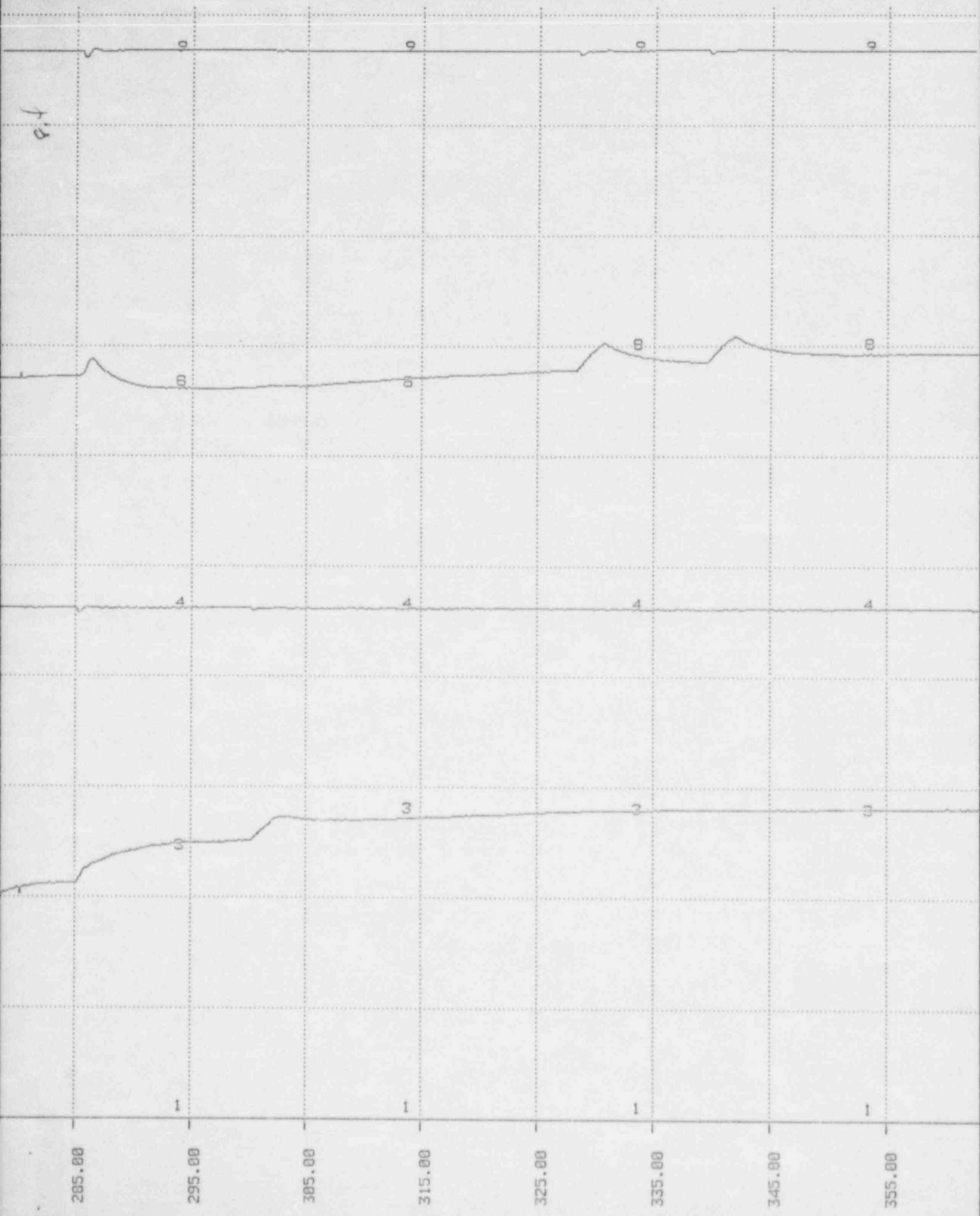
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 LOCA INT
 VOLT
 EU 10.0
 OFF 0.0
 ORG. 1.

CHAN# 202 CHAN# 200
 DG101KW DG101VLT
 KW VAC
 EU 1000.0 EU 2500.0
 OFF 2000.0 OFF 0.0
 ORG. 3. ORG. 4.

CHAN# 212 CHAN# 210
 DG103KW DG103VLT
 KW VAC
 EU 1000.0 EU 2500.0
 OFF 2000.0 OFF 0.0
 ORG. 8. ORG. 9.



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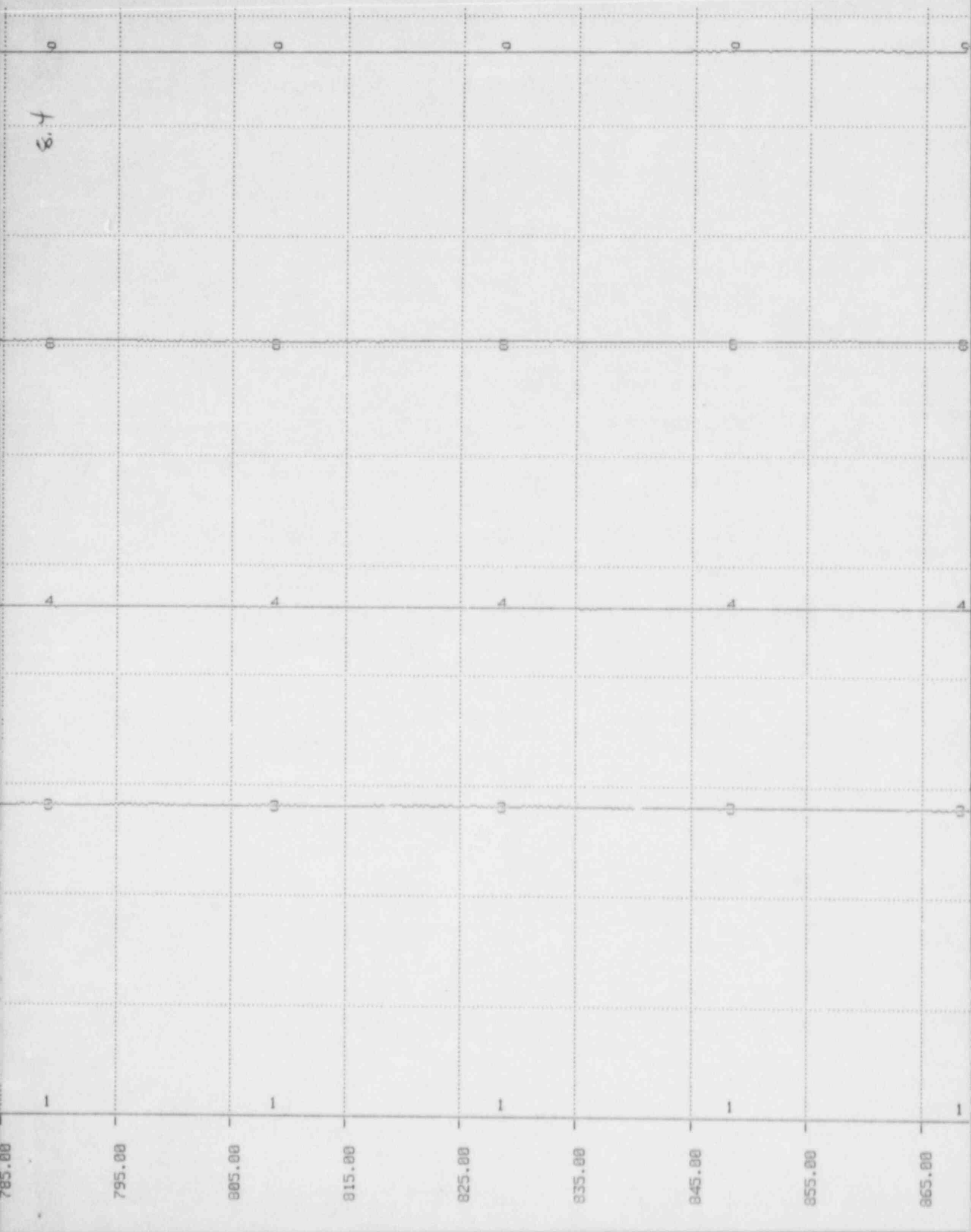
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START DIGITAL
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STOP DIGITAL

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ROUTINE
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I.E.T. STEP 8.5 8/17/64
 FILE 40999
 RUN 2
 DATE 8/17/64

TIME W START OF RUN 20:35:59.10
 BEGINNING AT 20.00 SECS. FROM START OF RUN

CHANO 210 CHONA 212
 05103MLT 06103KW
 VNC

RELATIVE TIME	B	W	Q
4210.198	2268.396		
4203.890	2266.107		
4210.198	2269.168		
4210.481	2266.107		
4219.461	2252.634		
4210.762	2263.754		
4203.898	2266.107		
4207.600	2266.107		
4210.654	2268.396		
RELATIVE TIME	B	W	Q
4219.850	2266.107		
4209.608	2262.491		
4216.198	2266.107		
4209.890	2266.107		
4207.998	2268.396		
4210.763	2268.396		
4209.181	2267.094		
4209.608	2263.874		
4210.198	2266.107		

RELATIVE TIME	B	W	Q
4203.898	2265.187		
4210.198	2268.396		
4207.672	2266.744		
4207.899	2263.856		
4197.817	2268.344		
4197.817	2266.107		
4203.377	2259.168		
4205.181	2266.107		
4196.735	2263.854		
4197.817	2263.834		
RELATIVE TIME	B	W	Q
4194.726	2266.107		
4194.726	2266.107		
4194.726	2266.107		
4190.444	2266.107		
4194.157	2262.231		
4194.889	2265.744		
4192.455	2263.344		
4191.661	2263.344		
4190.738	2263.168		

8.5

85

RELATIVE TIME	0	9	0
4192.455	2271.449		
4166.660	2294.124		
4125.934	2295.876		
4148.540	2300.060		
4132.234	2317.241		
4155.177	2327.153		
4171.242	2341.664		
4173.833	2354.610		
4178.533	2365.849		
4174.166	2375.245		
4173.533	2382.114		
4166.660	2391.971		
RELATIVE TIME	0	10	0
4166.660	2394.652		
4167.292	2411.871		
4171.242	2421.037		
4171.242	2427.903		
4160.046	2452.414		
4171.815	2443.119		
4156.197	2431.868		
4173.624	2452.776		
4170.116	2470.645		
4166.486	2475.739		
RELATIVE TIME	0	11	0
4182.697	2482.693		
4190.144	2491.251		
4194.726	2492.914		
4200.073	2498.129		
4217.636	2488.561		
4214.772	2483.106		
4210.763	2479.023		
4197.917	2475.657		
4192.435	2473.646		
4196.735	2467.552		
RELATIVE TIME	0	12	0
4201.826	2459.723		
4197.917	2451.564		
4205.658	2437.055		
4224.510	2417.984		
4230.918	2400.450		
4225.519	2381.388		
4231.601	2375.500		
4225.927	2368.374		
4217.636	2351.084		
4212.190	2352.740		
RELATIVE TIME	0	13	0
4192.730	2293.650		
4202.317	2271.449		
4202.317	2255.940		
4201.826	2237.652		
4199.729	2223.365		
4196.144	2207.540		
4191.861	2195.832		

8.5

RELATIVE TIME	B	14	B
4185.567	2103.681		
4185.562	2183.417		
4185.562	2153.443		
4192.430	2145.231		
4192.435	2131.828		
4191.851	2121.862		
4187.653	2119.414		
4188.573	2148.492		
4186.144	2089.044		
4188.144	2079.078		
4188.578	2156.911		
4188.578	2050.916		
4197.877	2052.411		
RELATIVE TIME	B	15	B
4199.308	2087.252		
4197.317	2033.351		
4205.898	2024.172		
4191.736	2015.277		
4204.830	2013.224		
4201.828	2009.508		
4201.530	2000.318		
4207.899	1997.334		
4201.599	1967.438		
4207.839	1979.143		
RELATIVE TIME	B	16	B
4281.859	1975.337		
4210.763	1972.273		
4289.472	1965.183		
4207.649	1987.774		
4207.889	1854.721		
4200.472	1948.615		
4213.481	1947.952		
4214.772	1945.563		
4217.863	1938.694		
4214.772	1932.588		
RELATIVE TIME	B	17	B
4213.854	1926.800		
4206.191	1926.482		
4207.472	1971.140		
4210.198	1978.377		
4217.636	1915.854		
4207.763	1911.318		
4215.345	1903.168		
4207.998	1906.675		
4214.772	1905.113		
4209.472	1892.778		
RELATIVE TIME	B	18	B
4207.855	1896.719		
4212.491	1893.665		
4212.481	1893.640		
4210.763	1898.610		
4212.491	1889.045		
4207.855	1864.526		

8.5

4207.099	1000.695
4215.056	1075.401
4203.317	1077.537
4199.300	1077.537
RELATIVE TIME	0
4199.300	1075.503
4200.101	1074.505
4200.101	1071.532
4200.101	1065.242
4199.300	1065.109
4199.300	1069.24
4200.101	1060.479
4199.260	1059.109
4203.090	1062.274
4194.725	1060.004
RELATIVE TIME	0
4194.300	1060.004
4197.017	1053.137
4190.475	1060.004
4190.700	1059.004
4190.300	1057.031
4191.061	1053.215
4190.144	1053.970
4190.017	1057.031
4191.061	1056.350
4190.144	1053.215
RELATIVE TIME	0
4190.444	1053.215
4197.070	1047.075
4180.570	1050.920
4191.061	1050.102
4190.420	1050.102
4180.570	1047.109
4194.102	1044.037
4197.070	1041.707
4192.030	1044.020
4180.570	1044.020
RELATIVE TIME	0
4191.061	1044.020
4190.900	1041.707
4180.562	1037.951
4180.271	1030.714
4180.271	1030.714
4190.104	1041.004
4191.435	1031.707
4190.400	1030.714
4191.061	1037.951
4190.061	1035.061
RELATIVE TIME	0
4180.271	1037.951
4190.104	1030.714
4191.061	1037.951
4190.061	1035.061
4192.430	1034.030

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4151.351	1835.561	0	25	593
4152.435	1835.561			
4153.720	1836.714			
4154.444	1838.714			
4155.453	1832.603			
RELATIVE TIME	...	0	25	593
4157.817	1821.045			
4158.454	1854.236			
4159.152	1838.651			
4160.716	1837.951			
4161.430	1834.830			
4162.368	1831.845			
...	...			
4164.826	1829.596			
4165.592	1852.005			
4166.392	1832.523			
4167.017	1825.601			
RELATIVE TIME	...	0	24	593
4168.735	1831.845			
4169.680	1832.003			
4170.735	1828.793			
...	...			
4174.726	1822.623			
4175.735	1831.845			
4176.472	1832.593			
4177.099	1828.793			
4178.535	1825.594			
4179.535	1829.556			
RELATIVE TIME	...	0	25	993
4182.698	1829.556			
4183.190	1829.556			
4184.101	1826.583			
4185.503	1825.583			
4186.026	1825.748			
4187.093	1820.799			
4188.058	1836.502			
4189.054	1820.793			
4190.245	1825.740			
4191.763	1823.430			
RELATIVE TIME	...	0	26	993
4213.654	1823.430			
4214.254	1825.793			
4214.772	1828.793			
4215.099	1825.583			
4216.245	1825.740			
4217.343	1825.749			
4218.343	1826.503			
4219.472	1825.952			
4220.763	1826.303			
RELATIVE TIME	...	0	27	503
4221.190	1825.740			
4222.343	1828.583			
4223.772	1828.793			
4224.190	1828.793			

8.5

RELATIVE TIME

0 26 339

1624.536
1629.556
1626.748
1626.963
1626.743
1626.793

RELATIVE TIME

0 29 359

1629.556
1629.556
1626.583
1625.742
1629.556
1624.704
1626.793
1626.583
1626.903
1626.583

RELATIVE TIME

0 36 399

1625.746
1629.556
1629.556
1629.556
1626.793
1625.903
1626.503
1626.543
1629.556
1629.556
1626.503

RELATIVE TIME

0 31 399

1626.746
1625.748
1629.556
1626.903
1626.793
1629.556
1625.748
1626.748
1629.556
1626.903

RELATIVE TIME

0 31 399

1629.556
1629.556
1626.583
1629.556
1626.793
1626.583
1626.583
1626.583
1629.556
1626.793

RELATIVE TIME

0 31 399

1629.556
1626.583
1629.556
1629.556
1626.793

8.5

RELATIVE TIME	0	34	50
4192.473	1829.756		
4193.562	1825.563		
4194.637	1826.503		
4195.739	1826.793		
4196.161	1832.689		
4197.562	1829.556		
4197.379	1825.563		
RELATIVE TIME	0	34	50
4197.279	1826.563		
4198.456	1829.556		
4199.661	1829.556		
4200.459	1829.732		
4201.632	1825.093		
4202.273	1823.748		
4203.473	1825.563		
4204.347	1823.748		
4205.593	1829.793		
4206.444	1828.793		
RELATIVE TIME	0	34	50
4207.368	1828.793		
4208.599	1825.749		
4209.828	1825.563		
4210.726	1825.563		
4211.757	1826.253		
4212.726	1828.793		
4213.726	1829.747		
4214.726	1823.450		
4215.593	1829.749		
4216.598	1828.793		
RELATIVE TIME	0	35	50
4217.669	1831.645		
4218.593	1829.793		
4219.472	1828.749		
4220.317	1826.563		
4221.599	1825.563		
4222.472	1828.793		
4223.472	1822.689		
4224.317	1829.556		
4225.603	1826.993		
4226.763	1828.793		
RELATIVE TIME	0	35	50
4227.763	1829.793		
4228.763	1829.556		
4229.472	1831.645		
4230.369	1823.689		
4231.772	1821.945		
4232.699	1823.748		
4233.101	1829.556		
4234.101	1822.689		
4235.199	1831.645		
RELATIVE TIME	0	37	50
4236.199	1829.556		
4237.199	1828.753		

8.5

RELATIVE TIME	0	70	950
4215.345	1032.689		
4216.347	1032.689		
4217.663	1032.689		
4218.345	1032.689		
4219.477	1032.689		
4220.999	1032.689		
4221.161	1032.689		
4222.491	1032.689		
RELATIVE TIME	0	70	950
4223.472	1032.689		
4224.999	1032.689		
4226.663	1032.689		
4227.772	1032.689		
4228.954	1032.689		
4229.768	1032.689		
4230.626	1032.689		
4231.038	1032.689		
4232.999	1032.689		
4233.999	1032.689		
RELATIVE TIME	0	70	950
4234.141	1032.689		
4235.026	1032.689		
4236.472	1032.689		
4237.999	1032.689		
4238.833	1032.689		
4239.663	1032.689		
4240.999	1032.689		
4241.388	1032.689		
4242.999	1032.689		
4243.999	1032.689		
RELATIVE TIME	0	70	950
4244.444	1032.689		
4245.926	1032.689		
4246.388	1032.689		
4247.735	1032.689		
4248.132	1032.689		
4249.132	1032.689		
4250.444	1032.689		
4251.444	1032.689		
4252.999	1032.689		
4253.999	1032.689		
RELATIVE TIME	0	70	950
4254.132	1032.689		
4255.577	1032.689		
4256.144	1032.689		
4257.132	1032.689		
4258.444	1032.689		
4259.444	1032.689		
4260.999	1032.689		
4261.999	1032.689		
RELATIVE TIME	0	70	950
4262.776	1032.689		
4263.950	1032.689		

8.5

4175.397 1997.438
 4103.271 1933.351
 4172.606 1944.799
 4184.900 1957.918
 4170.188 1936.932
 4178.680 1981.453
 4103.906 1940.591
 4178.686 1987.486
 4105.582 2005.655

RELATIVE TIME

0 25 799

4185.962 2612.724
 4170.600 2024.503
 4179.688 2031.043
 4108.486 2044.431
 4113.488 2046.305
 4187.279 2054.792
 4163.979 2061.989
 4167.552 2073.917
 4186.444 2062.175
 4203.858 2075.635

RELATIVE TIME

0 40 999

4211.646 2679.728
 4218.954 2963.658
 4212.491 2050.716
 4204.026 2031.647
 4203.317 2040.573
 4201.829 2042.589
 4198.435 2031.041
 4197.817 2034.172
 4197.853 2021.893
 4197.831 2018.866

RELATIVE TIME

0 60 999

4187.853 2615.614
 4191.051 2069.071
 4198.735 2033.546
 4194.157 1976.468
 4194.152 1991.234
 4194.152 1980.302
 4201.309 1989.382
 4201.309 1982.196
 4201.306 1975.898
 4196.444 1972.274

RELATIVE TIME

0 75 999

4197.617 1972.274
 4203.608 1948.905
 4207.025 1962.222
 4216.150 1962.579
 4216.153 1987.774
 4203.069 1974.721
 4216.150 1954.721
 4216.150 1951.640
 4203.058 1958.905
 4212.401 1948.563

RELATIVE TIME

0 90 999

8.5

RELATIVE TIME	B	52	53	54	55	56	59
1895.954							
4107.853							
4184.988							
4185.562							
4190.144							
4182.887							
4189.974							
4185.271							
4190.144							
4190.144							
4197.273							
RELATIVE TIME							
4185.562							
4186.795							
4186.795							
4187.053							
4185.562							
4191.861							
4185.562							
4185.562							
4186.144							
4185.562							
4187.853							
RELATIVE TIME							
4192.025							
4187.273							
4185.562							
4194.152							
4186.444							
4191.861							
4191.861							
4192.425							
4197.017							
4190.144							
RELATIVE TIME							
4197.817							
4199.589							
4194.726							
4193.386							
4201.825							
4201.825							
4199.208							
4205.181							
4205.181							
4199.208							
RELATIVE TIME							
4203.317							
4203.350							
4201.590							
4203.317							
4203.938							
4203.600							
4203.850							
4210.190							
4204.101							

8.5

RELATIVE TIME	#	57	59
4213.054	1893.743		
4206.381	1868.636		
4203.056	1881.254		
4218.150	1884.385		
4218.783	1887.353		
4206.472	1887.529		
4218.158	1885.743		
4218.188	1884.585		
4211.772	1854.385		
4208.473	1897.351		
428.059	1897.553		
RELATIVE TIME	#	58	59
4216.188	1858.798		935
4207.083	1864.396		
4213.054	1881.582		
4213.054	1885.736		
4213.054	1887.559		
4208.473	1885.040		
4216.188	1883.840		
4218.783	1886.296		
4207.639	1885.796		
4218.783	1887.259		
RELATIVE TIME	#	59	59
4207.389	1880.614		893
4208.473	1832.982		

8.5

I.E.T. STEP 8.5 8/17/84

FILE #9999

RUN # 2

DATE 8/17/84

TIME # START IF RUN 20:37:50: 10

BEGINNING AT 120.00 SECS. FROM START OF RUN

CHAN# 205 CHAN# 287
DG102VLT DG102KW

1%RC MU

RELATIVE TIME . . . 0

4119.587	2919.587
4119.587	2919.587
4121.789	2916.794
4121.789	2912.501
4119.587	2913.744
4120.877	2913.744
4120.877	2918.832
4120.877	2913.794
4120.877	2910.694

RELATIVE TIME . . . 0

4126.354	2907.644
4121.789	2907.644
4120.877	2907.644
4119.587	2910.694
4121.789	2907.644
4124.924	2907.644
4126.354	2907.644
4119.587	2905.881
4120.877	2907.644
4126.354	2906.081

RELATIVE TIME . . . 0

4122.739	2906.981
4122.339	2904.583
4120.877	2901.543
4119.587	2903.821
4119.587	2907.644
4121.789	2909.511
4129.286	2907.644
4124.642	2906.801
4120.877	2906.801
4126.354	2907.644

RELATIVE TIME . . . 0

4119.587	2910.694
4120.877	2912.581
4126.354	2909.531
4122.359	2918.694
4120.877	2909.951
4126.354	2908.931
4126.354	2912.581
4122.359	2916.794
4122.359	2916.632

0 0 1 0

0 1 0 0

0 1 0 999

0 2 0 999

8.5

RELATIVE TIME	0	3	6
4126.224	2913.744		
4126.924	2913.744		999
4119.587	2916.832		
4124.671	2916.794		
4126.994	2916.794		
4129.286	2916.794		
4129.286	2916.832		
4126.924	2916.794		
4126.354	2919.848		
4126.354	2919.802		
4126.924	2919.882		
RELATIVE TIME	0	5	6
4126.354	2919.802		
4121.789	2916.794		
4121.789	2919.882		
4121.789	2919.845		
4120.877	2922.899		
4122.359	2922.132		
4122.389	2919.845		
4124.671	2919.845		
4126.354	2916.794		
4120.877	2919.882		
RELATIVE TIME	0	5	6
4124.642	2919.882		
4122.359	2919.845		
4124.671	2916.832		
4120.636	2913.744		
4126.924	2913.744		
4126.354	2913.744		
4126.924	2916.794		
4126.924	2912.981		
4126.354	2919.694		
4119.587	2916.694		
RELATIVE TIME	0	7	8
4117.799	2918.694		
4124.642	2918.694		
4121.789	2918.694		
4126.924	2989.931		
4129.286	2987.884		
4122.359	2994.593		
4121.789	2986.891		
4119.587	2985.881		
4119.587	2987.644		
4122.359	2986.881		
RELATIVE TIME	0	8	9
4123.636	2994.593		
4126.924	2981.543		
4126.354	2984.593		
4119.587	2987.644		
4122.359	2987.644		
4129.286	2984.593		
4120.636	2983.831		
4126.354	2984.593		

8.5

RELATIVE TIME	9	10	11	12	13
4126.354	2907.644				
4126.877	2906.881				
RELATIVE TIME	0				
4126.354	2907.644				
4124.642	2909.931				
4128.036	2904.503				
4126.924	2906.061				
4126.924	2907.644				
4129.507	2913.744				
4126.354	2912.961				
4128.636	2912.901				
4126.354	2912.961				
4129.877	2913.744				
RELATIVE TIME	0				
4126.354	2913.744				
4126.354	2916.794				
4126.354	2916.794				
4122.859	2919.082				
4126.924	2916.794				
4128.877	2916.794				
4128.877	2922.132				
4124.642	2922.895				
4121.789	2922.132				
4121.789	2919.945				
RELATIVE TIME	0				
4123.309	2919.062				
4126.924	2919.945				
4128.877	2922.132				
4128.877	2925.183				
4126.924	2922.895				
4129.286	2919.845				
4126.924	2919.045				
4124.871	2919.845				
4124.642	2922.132				
4121.789	2925.103				
RELATIVE TIME	0				
4129.286	2922.895				
4128.636	2919.045				
4126.924	2919.945				
4128.877	2915.082				
4124.642	2922.132				
4126.354	2922.895				
4124.871	2919.832				
4128.636	2916.794				
4126.924	2916.032				
4128.877	2919.945				
RELATIVE TIME	0				
4126.354	2916.754				
4126.924	2916.832				
4128.636	2916.832				
4121.789	2913.744				
4121.789	2913.744				
4126.354	2913.744				
4124.642	2913.744				

8.5

4124.642	2913.744	14	0
4121.789	2916.794		
4129.286	2918.694		
RELATIVE TIME			
4126.924	2909.931		
4126.354	2918.634		
4124.642	2918.694		
4122.359	2913.744		
4128.636	2918.694		
4128.686	2907.644		
4126.354	2907.644		
4124.642	2918.694		
4126.354	2918.694		
4122.359	2913.744		
RELATIVE TIME			
4128.636	2909.931		
4129.286	2909.931		
4126.924	2907.644		
4121.789	2909.931		
4126.924	2913.744		
4128.677	2912.981		
4121.789	2913.744		
4126.924	2913.744		
4128.636	2913.744		
4126.924	2916.032		
RELATIVE TIME			
4119.567	2919.845		
4122.359	2919.845		
4124.671	2919.842		
4122.359	2919.882		
4126.924	2916.794		
4124.642	2922.898		
4126.924	2922.898		
4126.636	2926.183		
4124.671	2925.183		
4121.789	2922.132		
RELATIVE TIME			
4126.354	2925.183		
4126.924	2925.183		
4122.359	2928.238		
4121.789	2928.996		
4126.354	2929.948		
4128.677	2925.948		
4119.567	2928.996		
4128.677	2928.996		
4121.789	2929.996		
4128.636	2928.233		
RELATIVE TIME			
4124.642	2925.183		
4122.359	2925.183		
4121.789	2925.948		
4119.567	2925.333		
4128.677	2926.936		
4126.354	2925.948		

8.5

4122.359	2925.103	0	13	999
4121.789	2922.132	0	13	999
4120.877	2923.945	0	13	999
4120.877	2925.183	0	13	999
RELATIVE TIME	0	0	13	999
4124.871	2919.045	0	19	999
4129.286	2919.802	0	19	999
4129.536	2916.794	0	19	999
4121.789	2916.832	0	19	999
4119.587	2919.045	0	19	999
4122.359	2913.744	0	19	999
4126.924	2916.832	0	19	999
4124.871	2916.794	0	19	999
4126.924	2913.744	0	19	999
4126.536	2916.794	0	19	999
RELATIVE TIME	0	0	19	999
4122.359	2916.882	0	73	999
4120.877	2916.832	0	73	999
4122.359	2913.744	0	73	999
4126.536	2920.931	0	73	999
4120.877	2918.694	0	73	999
4126.536	2912.981	0	73	999
4126.536	2918.694	0	73	999
4129.286	2912.981	0	73	999
4126.924	2916.832	0	73	999
4126.924	2916.832	0	73	999
RELATIVE TIME	0	0	73	999
4128.636	2916.794	0	21	999
4122.359	2919.045	0	21	999
4126.354	2912.981	0	21	999
4124.642	2916.794	0	21	999
4126.354	2919.045	0	21	999
4121.789	2919.045	0	21	999
4129.286	2915.682	0	21	999
4124.871	2919.845	0	21	999
4126.354	2916.832	0	21	999
4126.354	2919.045	0	21	999
RELATIVE TIME	0	0	21	999
4121.789	2922.895	0	22	999
4119.587	2922.895	0	22	999
4126.354	2922.132	0	22	999
4122.359	2919.045	0	22	999
4126.536	2913.045	0	22	999

8.5

4121.709	2922.132	0	23	999
4121.709	2925.183			
4125.924	2925.183			
4125.924	2922.895			
4129.636	2919.645			
RELATIVE TIME	...	0		
4126.354	2919.045			
4122.359	2919.682			
4117.795	2922.132			
4122.359	2922.895			
4124.642	2922.895			
4124.642	2919.845			
4122.359	2916.754			
4126.924	2919.082			
4125.924	2919.045			
4122.359	2919.082			
RELATIVE TIME	...	0	24	999
4122.359	2916.794			
4125.924	2913.744			
4125.924	2912.981			
4125.924	2916.832			
4125.924	2916.032			
4121.789	2916.794			
4121.871	2913.744			
4129.286	2918.694			
4122.359	2909.931			
4119.587	2910.694			
RELATIVE TIME	...	0	25	999
4128.877	2912.901			
4125.924	2918.694			
4124.642	2907.644			
4125.924	2906.601			
4129.524	2904.553			
4129.924	2987.644			
4125.924	2987.644			
4126.354	2907.644			
4129.636	2907.644			
4123.924	2964.593			
RELATIVE TIME	...	0	26	999
4119.587	2904.593			
4122.359	2907.644			
4125.924	2986.881			
4122.359	2965.881			
4129.286	2986.881			
4121.789	2904.593			
4121.789	2986.881			
4126.877	2909.931			
4125.924	2918.694			
4129.877	2918.694			
RELATIVE TIME	...	0	27	999
4122.359	2965.881			
4122.359	2918.694			
4121.789	2912.981			
4125.924	2913.744			

8.5

4126.924	0	20	999
4124.871			
4128.286			
4122.359			
4120.877			
4119.367			
RELATIVE TIME	0	20	999
4122.359			
4121.785			
4124.871			
4121.789			
4123.877			
4120.877			
4126.924			
4126.924			
4122.359			
4121.789			
RELATIVE TIME	0	20	999
4126.924			
4126.924			
4124.871			
4129.286			
4129.286			
4126.924			
4124.871			
4129.877			
4126.924			
4129.286			
RELATIVE TIME	0	20	999
4122.359			
4126.924			
4126.924			
4126.924			
4122.359			
4122.359			
4122.359			
4126.924			
4126.924			
4124.871			
4126.924			
RELATIVE TIME	0	20	999
4123.856			
4124.871			
4129.359			
4126.924			
4124.642			
4121.789			
4126.924			
4121.789			
4126.924			
4129.877			
RELATIVE TIME	0	20	999
4122.359			
4126.924			
4126.924			
4126.924			

85

4126.924 2989.931
 4121.729 2989.931
 4120.677 2912.561
 4124.642 2913.744
 4124.871 2915.032
 4126.924 2912.561
 4126.535 2916.694
 RELATIVE TIME . . . 0 33 33

4126.354 2913.744
 4126.677 2915.792
 4124.642 2916.794
 4126.354 2919.043
 4124.671 2919.962
 4126.636 2919.932
 4126.924 2919.645
 4124.871 2919.645
 4126.354 2922.895
 4126.924 2925.183

RELATIVE TIME . . . 0 34 35
 4129.285 2922.635
 4122.339 2925.103
 4121.709 2925.103
 4122.924 2925.193
 4129.677 2928.996
 4128.877 2928.996
 4121.729 2928.996
 4126.924 2925.945
 4129.636 2925.945
 4126.354 2928.996

RELATIVE TIME . . . 0 35 35
 4129.354 2931.284
 4126.354 2932.846
 4120.636 2928.233
 4122.359 2928.233
 4121.729 2928.233
 4119.507 2931.284
 4126.354 2931.704
 4129.636 2931.284
 4129.636 2925.945
 4122.359 2928.996

RELATIVE TIME . . . 0 36 36
 4129.677 2928.233
 4126.924 2925.945
 4126.924 2928.996
 4128.636 2928.233
 4126.924 2928.132
 4129.677 2922.132
 4129.677 2922.132
 4129.677 2925.183
 4129.677 2922.057
 4122.339 2922.132

RELATIVE TIME . . . 0 37 37
 4129.285 2916.734
 4122.359 2916.734

8.5

4126.924 2913.744
 4119.897 2915.882
 4115.587 2919.045
 4126.754 2916.794
 4124.871 2916.794
 4126.924 2912.904
 4128.874 2918.744
 4122.769 2916.832

RELATIVE TIME . . . 0 33 999

4126.354 2916.832
 4124.871 2916.794
 4122.759 2913.744
 4126.824 2919.894
 4119.587 2912.904
 4124.642 2913.744
 4126.754 2916.794
 4121.789 2916.794
 4129.286 2913.744
 4126.354 2916.894

RELATIVE TIME . . . 0 39 999

4126.354 2913.744
 4124.642 2916.794
 4126.354 2916.794
 4126.354 2913.744
 4122.859 2913.744
 4128.874 2916.832
 4119.587 2916.794
 4126.354 2915.845
 4129.636 2919.845
 4129.286 2916.794

RELATIVE TIME . . . 0 40 999

4122.359 2916.754
 4124.871 2915.882
 4124.871 2915.845
 4120.587 2919.752
 4126.354 2916.88
 4129.286 2919.845
 4121.789 2919.845
 4121.789 2919.845
 4126.354 2922.895
 4126.354 2922.895

RELATIVE TIME . . . 0 41 999

4121.789 2925.103
 4129.286 2922.895
 4121.789 2919.845
 4119.587 2922.132
 4126.877 2922.895
 4121.789 2922.895
 4129.286 2922.132
 4124.871 2922.132
 4121.789 2915.845
 4124.871 2922.132

RELATIVE TIME . . . 0 42 999

4121.789 2922.132

RELATIVE TIME . . . 0

8.5

RELATIVE TIME	0	43	509
4126.924	2915.734		
4126.954	2916.734		
4122.309	2916.734		
4124.871	2916.734		
4126.924	2913.744		
4121.789	2916.734		
4126.924	2916.734		
4129.386	2913.744		
4124.871	2913.744		
RELATIVE TIME	0	43	509
4122.859	2913.744		
4119.567	2913.744		
4119.567	2912.981		
413.719	2912.981		
4122.859	2987.644		
4126.856	2966.881		
4126.354	2986.881		
4126.877	2967.644		
4128.877	2919.894		
4126.354	2934.393		
RELATIVE TIME	0	44	576
4126.354	2986.881		
4126.877	2984.881		
4126.354	2983.631		
4126.856	2987.644		
4126.354	2987.644		
4126.924	2986.881		
4126.877	2987.644		
4126.924	2986.881		
4122.359	2987.644		
4124.642	2987.644		
RELATIVE TIME	0	45	576
4119.567	2989.931		
4121.789	2987.644		
4121.789	2912.301		
4124.642	2989.931		
4126.954	2986.881		
4119.567	2913.744		
4121.789	2912.981		
4128.877	2912.981		
4119.387	2916.734		
4129.387	2916.932		
RELATIVE TIME	0	46	576
4126.924	2913.744		
4121.789	2916.734		
4121.789	2919.845		
4126.924	2916.734		
4122.359	2919.882		
4129.386	2919.882		
4126.354	2916.734		
4124.642	2915.845		
4124.642	2919.882		
4128.877	2925.183		
RELATIVE TIME	0	47	589

8.5

4120.636	2922.132	0	40	999
4121.589	2922.132			
4129.266	2919.845			
4126.636	2919.845			
4121.789	2925.183			
4124.871	2925.183			
4122.530	2922.132			
4122.359	2922.132			
4126.924	2919.845			
4126.554	2925.945			
RELATIVE TIME	0			
4122.359	2922.995			
4122.389	2925.183			
4124.642	2922.132			
4126.354	2925.183			
4122.359	2919.845			
4126.354	2919.845			
4126.134	2922.132			
4122.389	2922.132			
4129.266	2919.845			
4122.359	2916.832			
RELATIVE TIME	0			
4114.587	2916.845			
4126.924	2919.845			
4122.359	2919.845			
4129.266	2916.794			
4124.636	2912.981			
4121.789	2912.981			
4126.354	2983.931			
4126.354	2913.744			
4121.789	2913.744			
4124.871	2913.744			
RELATIVE TIME	0			
4124.642	2919.684			
4129.266	2916.634			
4126.924	2918.534			
4126.924	2989.931			
4121.789	2919.654			
4126.636	2987.644			
4126.206	2986.581			
4126.924	2984.593			
4120.077	2987.644			
4126.924	2918.634			
RELATIVE TIME	0			
4122.359	2969.531			
4124.642	2967.644			
4129.266	2986.581			
4121.789	2987.644			
4124.642	2989.931			
4126.924	2912.981			
4122.359	2912.981			
4122.359	2912.981			
4126.354	2969.931			
4126.354	2912.981			

4114.587	2916.845	0	43	999
4126.924	2919.845			
4122.359	2919.845			
4129.266	2916.794			
4124.636	2912.981			
4121.789	2912.981			
4126.354	2983.931			
4126.354	2913.744			
4121.789	2913.744			
4124.871	2913.744			
RELATIVE TIME	0			
4124.642	2919.684			
4129.266	2916.634			
4126.924	2918.534			
4126.924	2989.931			
4121.789	2919.654			
4126.636	2987.644			
4126.206	2986.581			
4126.924	2984.593			
4120.077	2987.644			
4126.924	2918.634			
RELATIVE TIME	0			
4122.359	2969.531			
4124.642	2967.644			
4129.266	2986.581			
4121.789	2987.644			
4124.642	2989.931			
4126.924	2912.981			
4122.359	2912.981			
4122.359	2912.981			
4126.354	2969.931			
4126.354	2912.981			

4124.871	2913.744	0	50	999
4124.642	2919.684			
4129.266	2916.634			
4126.924	2918.534			
4126.924	2989.931			
4121.789	2919.654			
4126.636	2987.644			
4126.206	2986.581			
4126.924	2984.593			
4120.077	2987.644			
4126.924	2918.634			
RELATIVE TIME	0			
4122.359	2969.531			
4124.642	2967.644			
4129.266	2986.581			
4121.789	2987.644			
4124.642	2989.931			
4126.924	2912.981			
4122.359	2912.981			
4122.359	2912.981			
4126.354	2969.931			
4126.354	2912.981			

4124.871	2913.744	0	51	999
4124.642	2919.684			
4129.266	2916.634			
4126.924	2918.534			
4126.924	2989.931			
4121.789	2919.654			
4126.636	2987.644			
4126.206	2986.581			
4126.924	2984.593			
4120.077	2987.644			
4126.924	2918.634			
RELATIVE TIME	0			
4122.359	2969.531			
4124.642	2967.644			
4129.266	2986.581			
4121.789	2987.644			
4124.642	2989.931			
4126.924	2912.981			
4122.359	2912.981			
4122.359	2912.981			
4126.354	2969.931			
4126.354	2912.981			

8.5

RELATIVE TIME	0	50	999
4120.677	2916.794		
4121.789	2916.794		
4126.354	2916.724		
4122.359	2916.794		
4122.359	2916.794		
4126.354	2916.794		
4120.677	2923.895		
4126.354	2922.132		
4129.286	2923.134		
4128.910	2919.845		
RELATIVE TIME	0	50	999
4121.789	2922.132		
4126.354	2922.895		
4124.642	2922.895		
4126.824	2925.103		
4128.636	2922.895		
4122.359	2922.132		
4128.077	2919.845		
4126.824	2922.132		
4121.789	2925.365		
4120.636	2922.895		
RELATIVE TIME	0	54	999
4122.359	2922.895		
4126.824	2919.845		
4126.824	2919.862		
4129.636	2919.845		
4129.286	2916.794		
4128.636	2916.832		
4119.587	2916.832		
RELATIVE TIME	0	55	999
4120.677	2916.794		
4126.824	2916.794		
4124.871	2912.901		
4126.824	2907.644		
4126.824	2909.931		
4124.642	2909.931		
4126.354	2918.694		
4121.789	2918.634		
4129.206	2964.593		
4126.824	2904.593		
RELATIVE TIME	0	56	999
4122.358	2983.831		
4126.824	2983.831		
4121.789	2906.891		
4122.358	2965.881		
4126.824	2983.831		
4121.789	2903.831		
4126.354	2981.545		
4126.354	2983.831		
4120.677	2907.644		

8.5

RELATIVE TIME	2987.644	0	57	999
4122.359	2987.644	0	57	999
4124.642	2983.831			
4123.266	2984.593			
4126.924	2561.543			
4128.977	2987.644			
4128.977	2987.644			
4121.789	2986.881			
4128.636	2984.593			
4122.359	2983.831			
4121.789	2915.001			
4128.977	2987.644	0	58	999
RELATIVE TIME	2918.694	0	59	999
4121.789	2918.694	0	59	999
4123.266	2983.881			
4121.789	2987.644			
4122.359	2987.644			
4124.642	2986.881			
4119.587	2918.694			
4126.924	2918.694			
4124.642	2918.694			
4128.636	2987.644			
4122.359	2918.694	0	59	999
RELATIVE TIME	2918.694	0	59	999
4126.924	2918.694	0	59	999
4128.977	2912.581			

8.5

OFF-LINE PLOT

1.5.T. STEP 0.5 0/17/04

FILE # 2

RUN # 2

DATE 9/17/04

TIME @ START OF RUN 20:33:59.10

BEGINNING AT 110.00 SECS. FROM START OF RUN

10.000SEC./GRID LINE

CHAN# 214
LOCA INT
VOLT
EU 10.0
OFF 0.0
ORG. 1.

CHAN# 207 CHAN# 205
DG102KW DG102VLT
KW VAC
EU 1000.0 EU 2500.0
OFF 2000.0 OFF 0.0
ORG. 3. ORG. 4.

CHAN# 212 CHAN# 210
DG103KW DG103VLT
KW VAC
EU 1000.0 EU 2500.0
OFF 2000.0 OFF 0.0
ORG. 8. ORG. 9.



160.00

170.00

180.00

190.00

200.00*

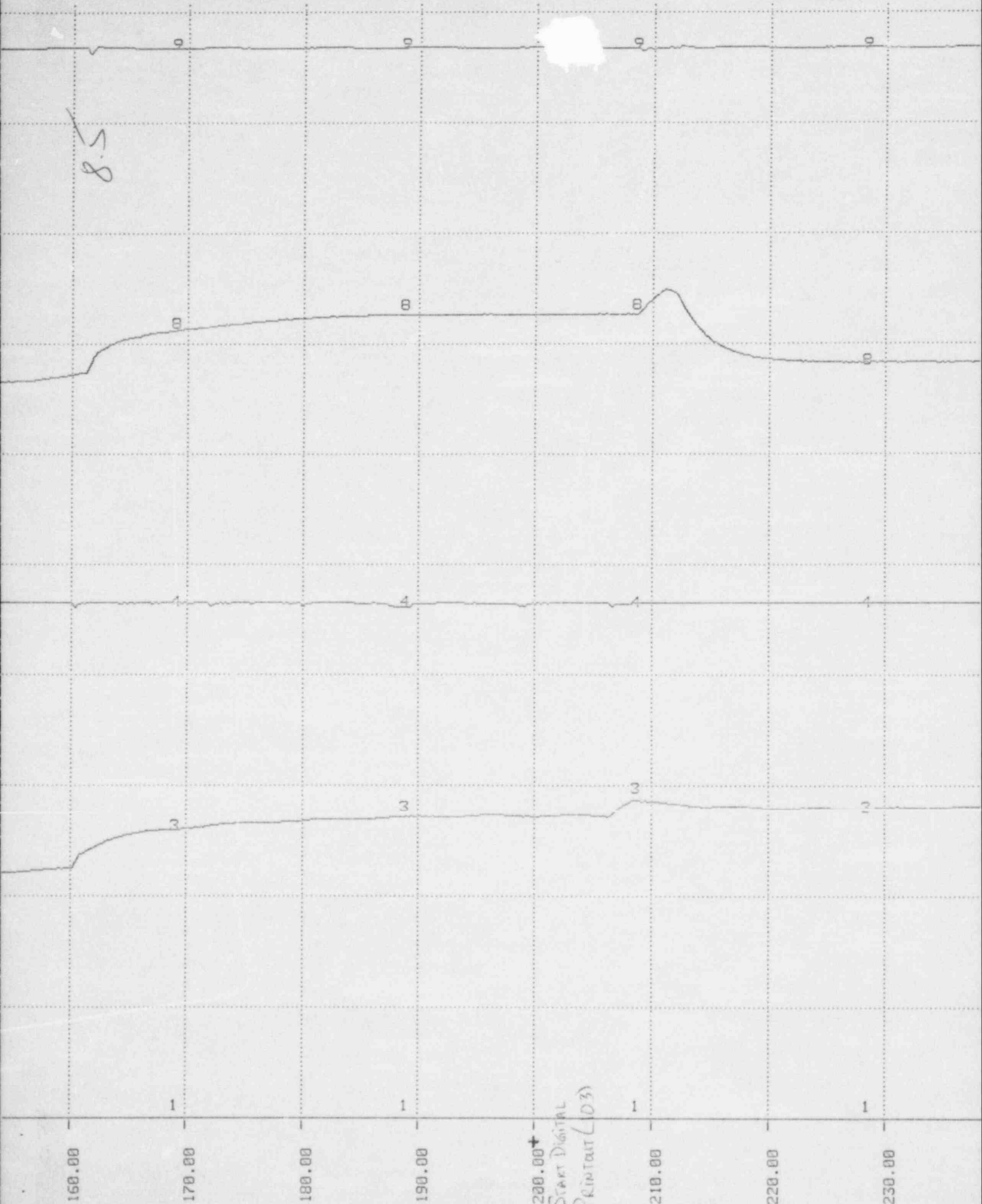
210.00

220.00

230.00

START DIGITAL
PRINTOUT (103)

8.5



240.00

250.00

260.00+

STOP DIGITAL

270.00

280.00

290.00

300.00

310.00

320.00

8.5



8.5



8.5

410.00

420.00

430.00

440.00

450.00

460.00

470.00

480.00

490.00

1

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85

500.00

1

510.00

520.00

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530.00

540.00

1

550.00

560.00

1

570.00

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580.00

590.00

600.00

610.00

620.00

630.00

640.00

650.00

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1

8.5

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1

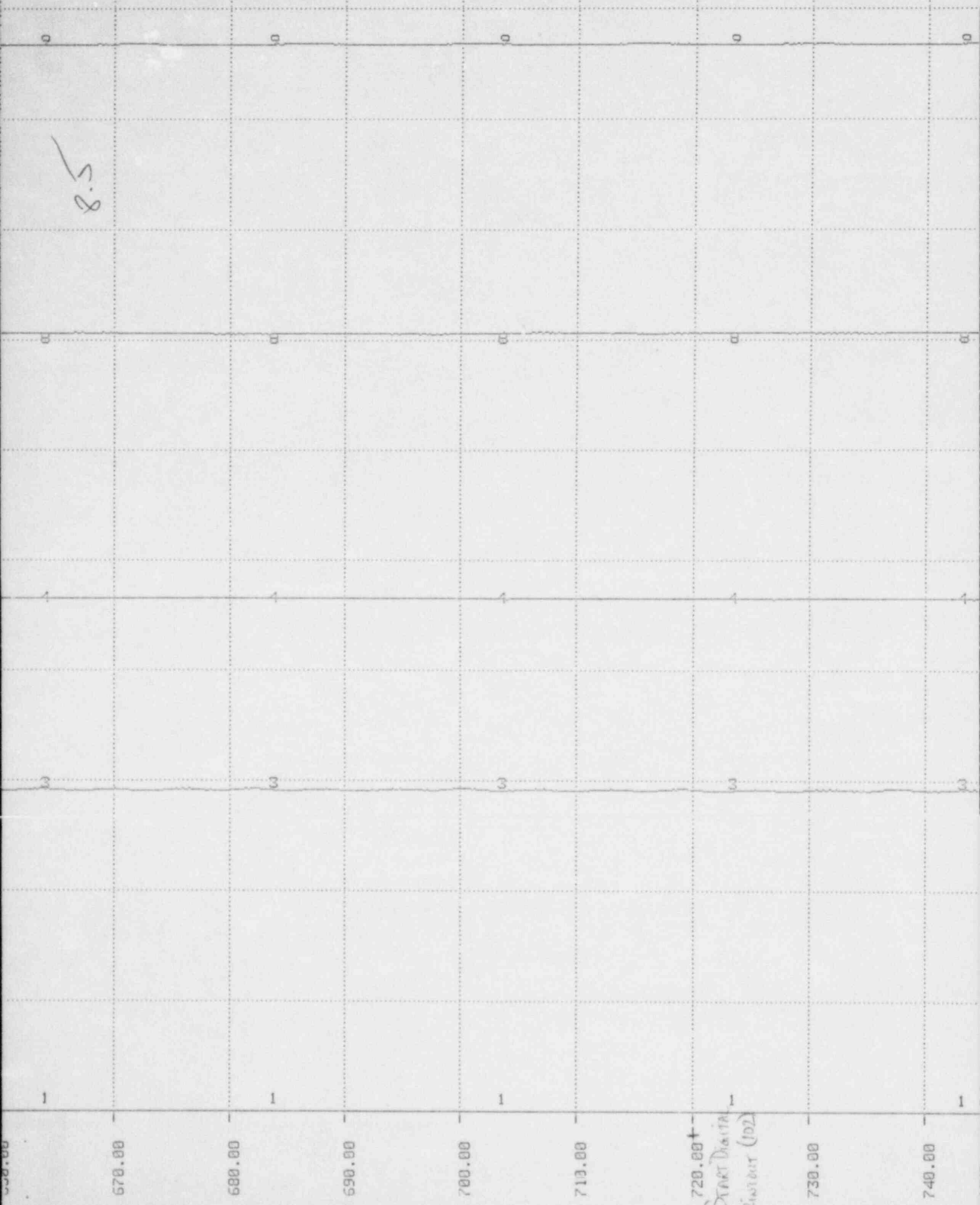
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0

8.5



START DIGITAL
PRINTER (102)

750.00

760.00

770.00

780.00+

STOP PAID

790.00

800.00

810.00

820.00

1

1

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1

3

3

3

3

4

4

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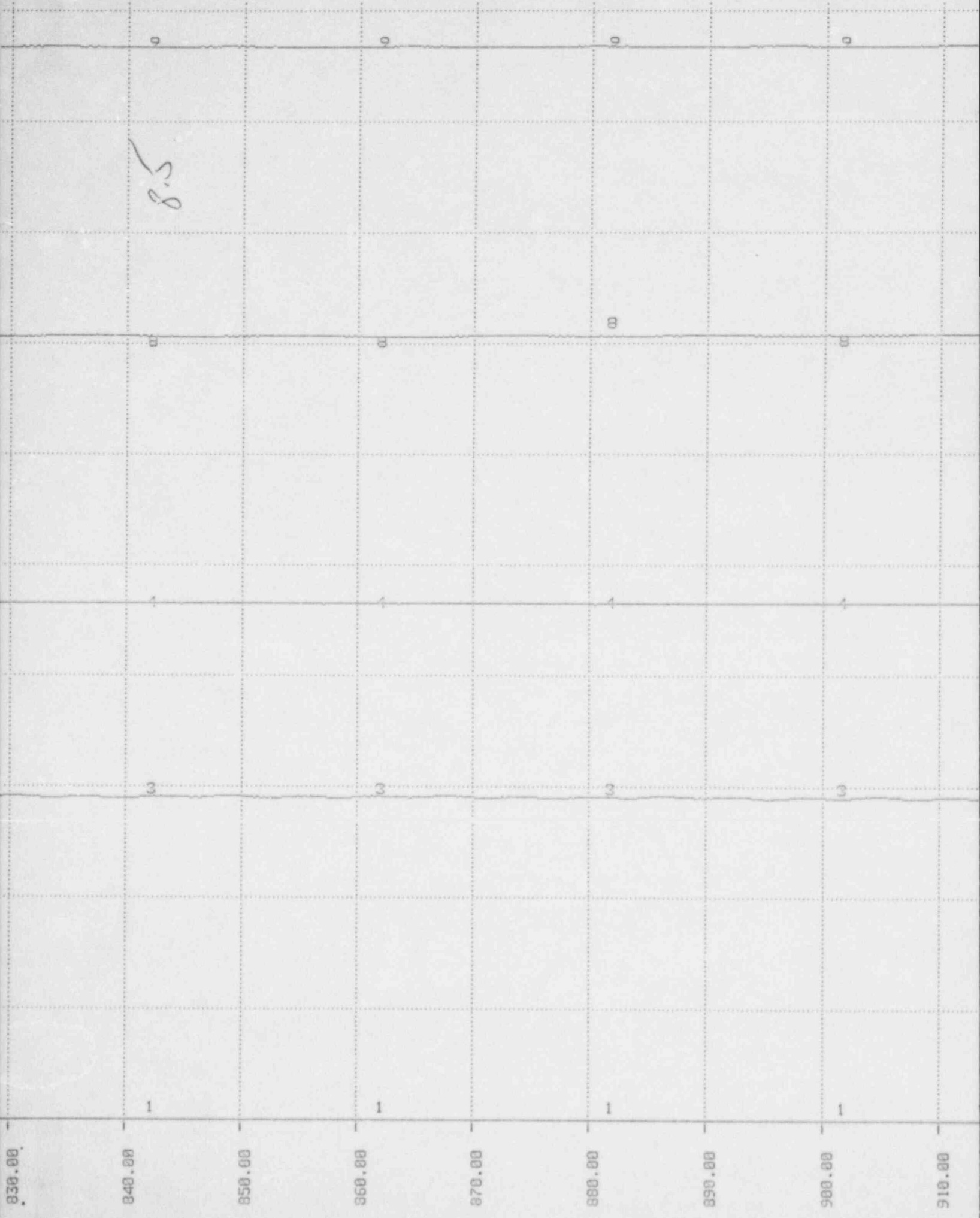
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0

0

8.5

8.5



8.5

920.00 930.00 940.00 950.00 960.00 970.00 980.00 990.00

8.5

1000.0 1010.0 1020.0 1030.0 1040.0 1050.0 1060.0 1070.0 1080.0

8.5

1090.0

1100.0

1110.0

1120.0

1130.0

1140.0

1150.0

1160.0

8.5

1170.0
1180.0
1190.0
1200.0
1210.0
1220.0
1230.0
1240.0
1250.0

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8.5

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1

1260.0

1270.0

1280.0

1290.0

1300.0

1310.0 *
STOP AVERAGE
ROUTINE