



## 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

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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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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:

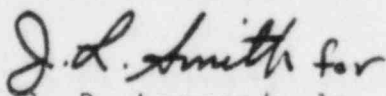
- a) One step in which all three diesels are loaded during a LOOP/LOCA event.
- b) Three steps in which one diesel is placed in "lockout" and the remaining two diesels are subjected to a LOOP/LOCA event. In each test, a different engine is placed in "lockout" so that all engine combinations are tested.

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 1

Attachment I  
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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 ON ACTUAL LOAD VARYING

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TABLE 0 3 1-1

EMERGENCY DIESEL GENERATOR SYSTEM  
MAXIMUM LOADS AND MAXIMUM COINCIDENT DEMANDS

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

TABLE 0.3.1-1 (CONT'D)

Function	Nameplate Rating (hp)	Total Plant Number	Number Required		Use of Offsite Power (Not Standby)	Maximum Coincident Demand (kilowatt)	
			Design Basis Loss 0 to 10 Min	10 Min on		PG-101	PG-102
* Emergency Switchgear, Relay & Computer Room Air Conditioning Unit	40	2	1	1	1	33.9	33.9
* 150-Air-Conditioning Unit	40 kW	1	-	1	1	-	40.0
* 150-Air-Cooled Condenser	30 kW	1	-	1	1	-	30.0
* Emergency Switchgear, Relay & Computer Room Exhaust Fan	10	2	1	1	1	8.0	8.0
* RASVS 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
* LPCI M & Set Room Ventilation	3	4	2	2	2	2.4	2.4
* Unit Cooler MCC DBI Room	1.5	1	1	1	1	-	1.2
* Spent Fuel Pool Cooling Water Pump	30	2	1	1	1	24.0	24.0
* Loop Level Pump (CS, RM, etc., etc.)	7.5	4	4	2	4	12.0	12.0
* Atmospheric Condensate Recirculation	109 kW	2	-	1	-	109.0	109.0
* 150-Air-Conditioning Unit	6.6 kW	4	-	-	-	-	26.4
* 150-Air-Conditioning Unit	4.4	3	-	-	-	7.0	3.5
* Radiation Monitoring	1	10	-	-	-	4.8	3.2
* 150-Air-Conditioning Unit	407.2 kW	-	-	-	X	180.0	227.2
* 150-Air-Conditioning Unit	60 kW	-	-	-	X	34	26
* 150-Air-Conditioning Unit	25	2	-	-	2	20.0	20.0
* 150-Air-Conditioning Unit	25 kVa	1	-	-	1	-	20.0
* 150-Air-Conditioning Unit	3 kVa	4	-	-	-	2.4	2.4
* 150-Air-Conditioning Unit	37.5 kVa	1	1	1	1	-	30
* 150-Air-Conditioning Unit	20 kVa	1	1	1	1	-	16
* 150-Air-Conditioning Unit	20 kVa	1	-	-	-	-	4
* 150-Air-Conditioning Unit	20 kVa	1	1	1	1	16	206.1
* 150-Air-Conditioning Unit	250	2	-	-	1	206.1	206.1
* 150-Air-Conditioning Unit	25	8	-	-	4	80.0	80.0

100

Function	Monoplate Rating (hp)	Total Plant Number	Design Basis Loss of Coolant Accident 0-10 Min	Number Required 10 Min on	Loss of Offsite Power (kbt Standby)	Maximum Coincident Demand (kilowatts)	
						DG-101	DG-102
Emergency Containment	2 kva	2	-	-	1	1.6 "	1.6 "
Air Cooler Subfeed							
Reactor Water Cleanup							
Boiler Pump "s	60	2	-	-	1	48 "	48 "
Suppression Pool Pump							
Back Pump	25	1	-	-	-	-	-
Main Turbine Turning Over "	60	1	-	-	1	-	48 "
Main Turbine Piggyback							
Turning Gear Drive	0.5	1	-	-	1	-	0.4 "
Main Turbine Turning Gear							
Oil Pump "	40	1	-	-	1	-	32 "
Main Turbine Bearing Lift Pump "	5	1	-	-	1	8 "	12 "
Feedwater Turbine Turning Gear "	1.5	2	-	-	2	1.2 "	1.2 "
Feedwater Turbine Turning Gear Oil Pump "	10	2	-	-	2	8 "	8 "
Oil-TIC Control	1.5 kva	2	-	-	2	1.2 "	1.2 "
Transformer							
Standby Liquid Control Pump	40	2	-	-	-	32 "	32 "
Standby Liquid Control Main Heater "	10 kw	1	-	-	-	-	10 "
Standby Liquid Control Heating Heater "	45 kw	1	-	-	-	45 "	-
Standby Liquid Control Heat Tracing	3 kva	2	-	-	-	3 "	3 "
Heat Tracing Transformer	25 kva	2	1	1	2	20	20
480 V M-G Set	200 "	4	2	2	2	160	160
Refueling Hb Crane	3.25	2	-	-	-	2.5 "	2.5 "
Refueling Platform Assembly	3.5	1	-	-	-	2.8 "	-
Motor Operated Valves						19.7	18.3
Nonoperating MW's "						95.9	75.3
Total Connectable Loads						4281.3	4147.8
Minus Base 11 Loads						95.9	75.3
Minus Base 8 Loads						4285.4	4072.5
Minus Base 10 Loads						507.8	439.6
Minus Base 9 Loads						3687.6	3642.9
Minus Base 13 Loads						20.0	20.0
Total kW (60 seconds approx)						3667.6	3624.1
Minus Base 11 Loads						116.0	118.9
Minus Base 8 Loads						3634.6	3505.2
Minus Base 10 Loads						102.7	102.7
Minus Base 9 Loads						3428.9	3402.9
Minus Base 13 Loads						19.1	18.3

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TABLE 6.3.1-1 (CONT'D)

Total kW (Prior to 10 minutes)  
 Minus Note 4 loads  
 Plus Note 14 loads  
 Total kW (After 10 minutes)

DG-101	DG-102	DG-103			
3733.2	3388.6	3442.7	2409.2	2264.6	3889.7
-0	-0	-1310.2	0	0	-1310.2
0	0	+150.0	0	0	+170.0
3733.2	3388.6	2282.5	2409.2	2264.6	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 on a LOCA.



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55010400 4705.00 SEALS FROM 5000 OF 0122

2.2

RELATIVE TIME	0	1	2	3	4	5	6	7	8	9
4040.240	2024.451	4152.052	2754.764	4230.755	3097.835					
4041.251	2025.463	4153.111	2757.631	4231.226	3098.569					
4042.261	2026.473	4154.111	2760.654	4232.074	3099.128					
4043.271	2027.483	4155.152	2763.831	4233.009	3100.099					
4044.281	2028.493	4156.233	2767.161	4234.047	3101.360					
4045.291	2029.503	4157.355	2770.731	4235.185	3102.813					
4046.301	2030.513	4158.518	2774.551	4236.423	3104.468					
4047.311	2031.523	4159.723	2778.621	4237.761	3106.323					
4048.321	2032.533	4160.968	2782.951	4239.199	3108.388					
4049.331	2033.543	4162.253	2787.541	4240.737	3110.663					
4050.341	2034.553	4163.578	2792.391	4242.375	3113.148					
4051.351	2035.563	4164.943	2797.501	4244.113	3115.853					
4052.361	2036.573	4166.348	2802.871	4245.951	3118.778					
4053.371	2037.583	4167.793	2808.501	4247.889	3121.923					
4054.381	2038.593	4169.278	2814.391	4249.927	3125.288					
4055.391	2039.603	4170.803	2820.541	4252.065	3128.873					
4056.401	2040.613	4172.368	2826.951	4254.303	3132.588					
4057.411	2041.623	4173.973	2833.621	4256.641	3136.433					
4058.421	2042.633	4175.618	2840.551	4259.079	3140.508					
4059.431	2043.643	4177.303	2847.741	4261.617	3144.823					
4060.441	2044.653	4179.028	2855.191	4264.255	3149.378					
4061.451	2045.663	4180.793	2862.901	4266.993	3154.173					
4062.461	2046.673	4182.598	2870.871	4269.831	3159.208					
4063.471	2047.683	4184.443	2879.101	4272.769	3164.483					
4064.481	2048.693	4186.328	2887.591	4275.807	3169.998					
4065.491	2049.703	4188.253	2896.341	4278.945	3175.753					
4066.501	2050.713	4190.218	2905.351	4282.183	3181.748					
4067.511	2051.723	4192.223	2914.621	4285.521	3187.983					
4068.521	2052.733	4194.268	2924.151	4288.959	3194.468					
4069.531	2053.743	4196.353	2933.941	4292.497	3201.203					
4070.541	2054.753	4198.478	2943.981	4296.135	3208.188					
4071.551	2055.763	4200.643	2954.281	4300.873	3215.423					
4072.561	2056.773	4202.848	2964.841	4305.711	3222.908					
4073.571	2057.783	4205.093	2975.661	4310.649	3230.643					
4074.581	2058.793	4207.378	2986.741	4315.687	3238.628					
4075.591	2059.803	4209.703	2998.081	4320.825	3246.863					
4076.601	2060.813	4212.068	3009.681	4326.163	3255.348					
4077.611	2061.823	4213.463	3021.541	4331.601	3264.083					
4078.621	2062.833	4214.898	3033.661	4337.239	3273.068					
4079.631	2063.843	4216.373	3046.041	4342.977	3282.303					
4080.641	2064.853	4217.888	3058.681	4348.815	3291.788					
4081.651	2065.863	4219.443	3071.581	4354.753	3301.523					
4082.661	2066.873	4221.038	3084.741	4360.791	3311.508					
4083.671	2067.883	4222.673	3098.161	4366.929	3321.743					
4084.681	2068.893	4224.348	3111.841	4373.167	3332.228					
4085.691	2069.903	4226.063	3125.781	4379.505	3342.963					
4086.701	2070.913	4227.818	3140.081	4385.943	3353.948					
4087.711	2071.923	4229.613	3154.741	4392.481	3365.183					
4088.721	2072.933	4231.448	3169.761	4399.119	3376.668					
4089.731	2073.943	4233.323	3185.141	4405.857	3388.403					
4090.741	2074.953	4235.238	3200.881	4412.595	3400.388					
4091.751	2075.963	4237.193	3216.981	4419.483	3412.623					
4092.761	2076.973	4239.188	3233.441	4426.421	3425.108					
4093.771	2077.983	4241.223	3250.261	4433.509	3437.843					
4094.781	2078.993	4243.298	3267.441	4440.647	3450.828					
4095.791	2079.003	4245.413	3284.981	4447.835	3464.063					
4096.801	2080.013	4247.568	3302.881	4455.173	3477.548					
4097.811	2081.023	4249.763	3321.141	4462.661	3491.283					
4098.821	2082.033	4251.998	3339.761	4470.299	3505.268					
4099.831	2083.043	4254.273	3358.741	4478.087	3519.503					
4100.841	2084.053	4256.598	3378.081	4485.925	3534.088					
4101.851	2085.063	4258.963	3397.781	4493.913	3548.923					
4102.861	2086.073	4261.368	3417.841	4502.051	3564.008					
4103.871	2087.083	4263.813	3438.261	4510.339	3579.343					
4104.881	2088.093	4266.298	3459.041	4518.777	3594.928					
4105.891	2089.103	4268.823	3480.181	4527.365	3610.763					
4106.901	2090.113	4271.388	3501.681	4536.103	3626.848					
4107.911	2091.123	4273.953	3523.541	4545.091	3643.183					
4108.921	2092.133	4276.568	3545.761	4554.329	3659.768					
4109.931	2093.143	4279.223	3568.341	4563.717	3676.603					
4110.941	2094.153	4281.918	3591.281	4573.255	3693.688					
4111.951	2095.163	4284.653	3614.581	4582.943	3711.023					
4112.961	2096.173	4287.428	3638.241	4592.781	3728.608					
4113.971	2097.183	4290.253	3662.261	4602.769	3746.443					
4114.981	2098.193	4293.118	3686.641	4612.907	3764.528					
4115.991	2099.203	4296.023	3711.381	4623.205	3782.863					
4117.001	2100.213	4298.968	3736.161	4633.653	3801.448					
4118.011	2101.223	4301.953	3761.341	4644.261	3820.283					
4119.021	2102.233	4305.278	3786.921	4655.019	3839.368					
4120.031	2103.243	4308.643	3812.901	4665.927	3858.703					
4121.041	2104.253	4312.058	3839.281	4676.985	3878.288					
4122.051	2105.263	4315.613	3866.061	4688.193	3898.123					
4123.061	2106.273	4319.208	3893.241	4699.551	3918.208					
4124.071	2107.283	4322.843	3920.821	4711.069	3938.543					
4125.081	2108.293	4326.518	3948.801	4722.737	3959.128					
4126.091	2109.303	4330.233	3977.181	4734.565	3979.963					
4127.101	2110.313	4334.008	4005.961	4746.553	4001.048					
4128.111	2111.323	4337.823	4035.141	4758.701	4022.383					
4129.121	2112.333	4341.678	4064.721	4771.009	4043.968					
4130.131	2113.343	4345.573	4094.701	4783.577	4065.803					
4131.141	2114.353	4349.508	4125.081	4796.405	4087.888					
4132.151	2115.363	4353.483	4155.861	4809.493	4110.223					
4133.161	2116.373	4357.498	4187.041	4822.841	4132.808					
4134.171	2117.383	4361.553	4218.621	4836.449	4155.643					
4135.181	2118.393	4365.648	4250.601	4850.317	4178.728					
4136.191	2119.403	4369.783	4282.981	4864.445	4202.063					
4137.201	2120.413	4373.958	4315.761	4878.833	4225.648					
4138.211	2121.423	4378.173	4348.941	4893.481	4249.483					
4139.221	2122.433	4382.428	4382.521	4908.389	4273.568					
4140.231	2123.443	4386.723	4416.501	4923.557	4297.903					
4141.241	2124.453	4391.058	4450.881	4938.985	4322.488					
4142.251	2125.463	4395.433	4485.661	4954.673	4347.323					
4143.261	2126.473	4399.848	4520.841	4970.621	4372.408					
4144.271	2127.483	4404.303	4556.421	4986.839	4397.743					
4145.281	2128.493	4408.798	4592.401	5003.317	4423.328					
4146.291	2129.503	4413.333	4628.781	5020.055	4449.163					
4147.301	2130.513	4417.918	4665.561	5037.053	4475.248					
4148.311	2131.523	4422.543	4702.741	5054.311	4501.583					
4149.321	2132.533	4427.208	4740.321	5071.829	4528.168					
4150.331	2133.543	4431.913	4778.301	5089.607	4554.903					
4151.341	2134.553	4436.658	4816.681	5107.645	4581.888					
4152.351	2135.563	4441.443	4855.461	5125.943	4609.123					
4153.361	2136.573	4446.268	4894.641	5144.491	4636.608					
4154.371	2137.583	4451.133	4934.221	5163.299	4664.343					
4155.381	2138.593	4456.038	4974.201	5182.367	4692.328					
4156.391	2139.603	4460.983	5014.581	5201.695	4720.563					
4157.401	2140.613	4465.968	5055.361	5221.283	4749.048					
4158.411	2141.623	4470.993	5096.541	5241.131	4777.783					









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4944.521	2927.499	4155.593	2731.730	4519.354	2925.072
4945.249	2928.251	4156.575	2730.969	4519.354	2925.919
4946.249	2928.561	4157.575	2730.539	4519.354	2926.035
4947.576	2929.595	4158.593	2730.539	4519.354	2926.763
4948.561	2930.388	4159.511	2730.539	4519.354	2927.878
4949.561	2930.747	4160.595	2730.539	4519.354	2928.552
4950.571	2931.261	4161.553	2730.539	4519.354	2929.325
4951.591	2931.213	4162.585	2730.539	4519.354	2930.199
4952.571	2932.351	4163.585	2730.539	4519.354	2930.572
4953.561	2933.389	4164.585	2730.539	4519.354	2931.545
4954.561	2934.389	4165.585	2730.539	4519.354	2932.518
4955.561	2935.389	4166.585	2730.539	4519.354	2933.541
4956.561	2936.389	4167.585	2730.539	4519.354	2934.518
4957.561	2937.389	4168.585	2730.539	4519.354	2935.541
4958.561	2938.389	4169.585	2730.539	4519.354	2936.518
4959.561	2939.389	4170.585	2730.539	4519.354	2937.541
4960.561	2940.389	4171.585	2730.539	4519.354	2938.518
4961.561	2941.389	4172.585	2730.539	4519.354	2939.541
4962.561	2942.389	4173.585	2730.539	4519.354	2940.518
4963.561	2943.389	4174.585	2730.539	4519.354	2941.541
4964.561	2944.389	4175.585	2730.539	4519.354	2942.518
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4971.561	2951.389	4182.585	2730.539	4519.354	2949.541
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4996.561	2976.389	4207.585	2730.539	4519.354	2974.518
4997.561	2977.389	4208.585	2730.539	4519.354	2975.541
4998.561	2978.389	4209.585	2730.539	4519.354	2976.518
4999.561	2979.389	4210.585	2730.539	4519.354	2977.541
5000.561	2980.389	4211.585	2730.539	4519.354	2978.518

RELATIVE TIME

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3044.521

3070.547

3087.581

3093.607

3099.633

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3117.711

3123.737

3129.763

3135.789

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3153.867

3159.893

3165.919

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2998.507

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3124.053

3130.079

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3142.131

3148.157

3154.183

3160.209

3166.235

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3221.907

3227.933

3233.959

3239.985

3246.011

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3264.089

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3288.193

3294.219

3300.245

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3342.427

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3378.583

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3390.635

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3426.791

3053.179

3059.205

3065.231



OFF-LINE PLOT  
 I.E.T. STEP 0.3 8/15/84  
 FILE #0000  
 RUN # 1  
 DATE 8/15/84  
 TIME 0 START OF RUN 2:12:50:10  
 BEGINNING AT 110.00 SEC. FROM START OF RUN

8.2

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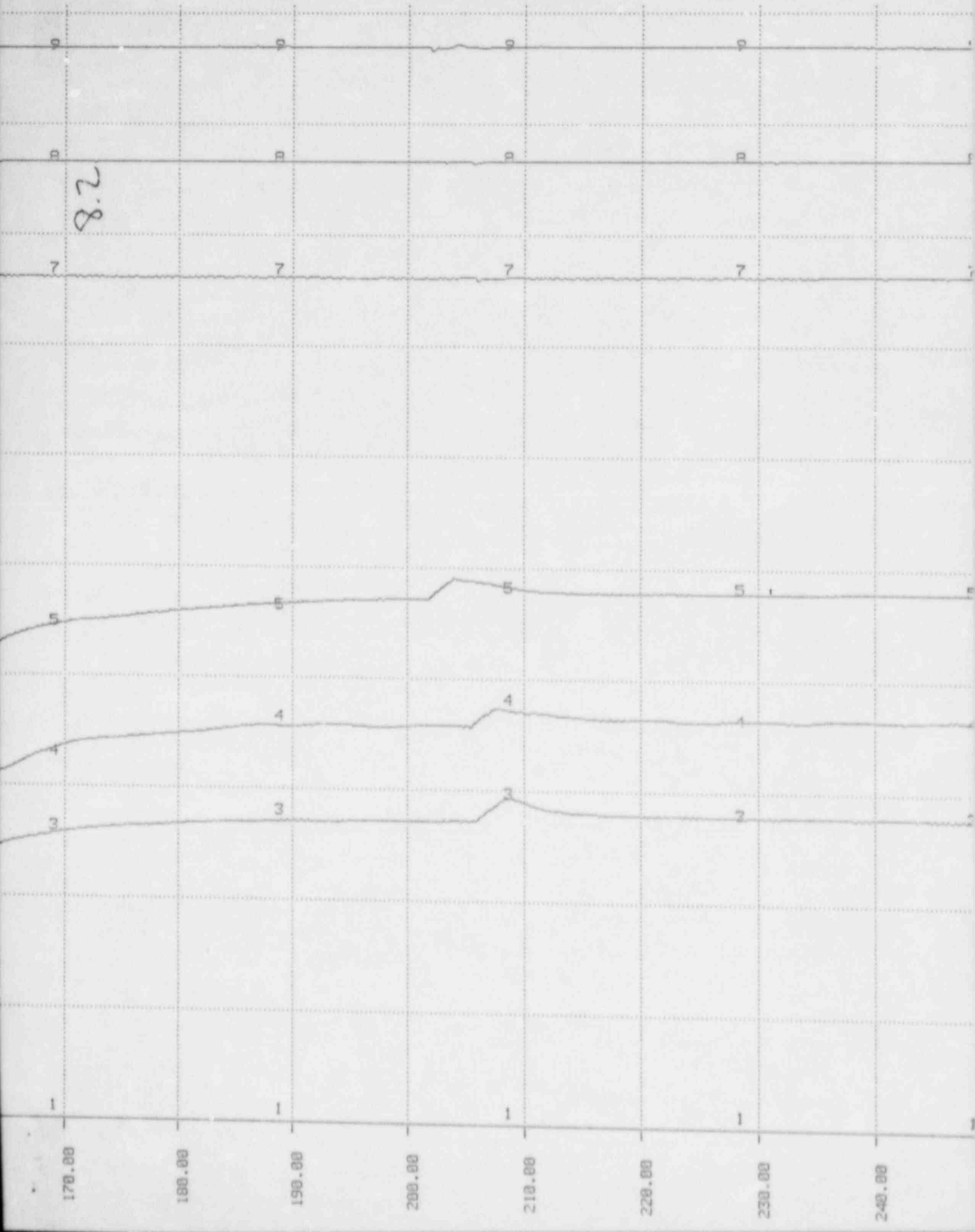
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 EU 10.0  
 OFF 0.0  
 ORG. 1.

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 KW KW KW  
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 OFF 2000.0 OFF 2000.0 OFF 2000.0  
 ORG. 3. ORG. 4. ORG. 5.

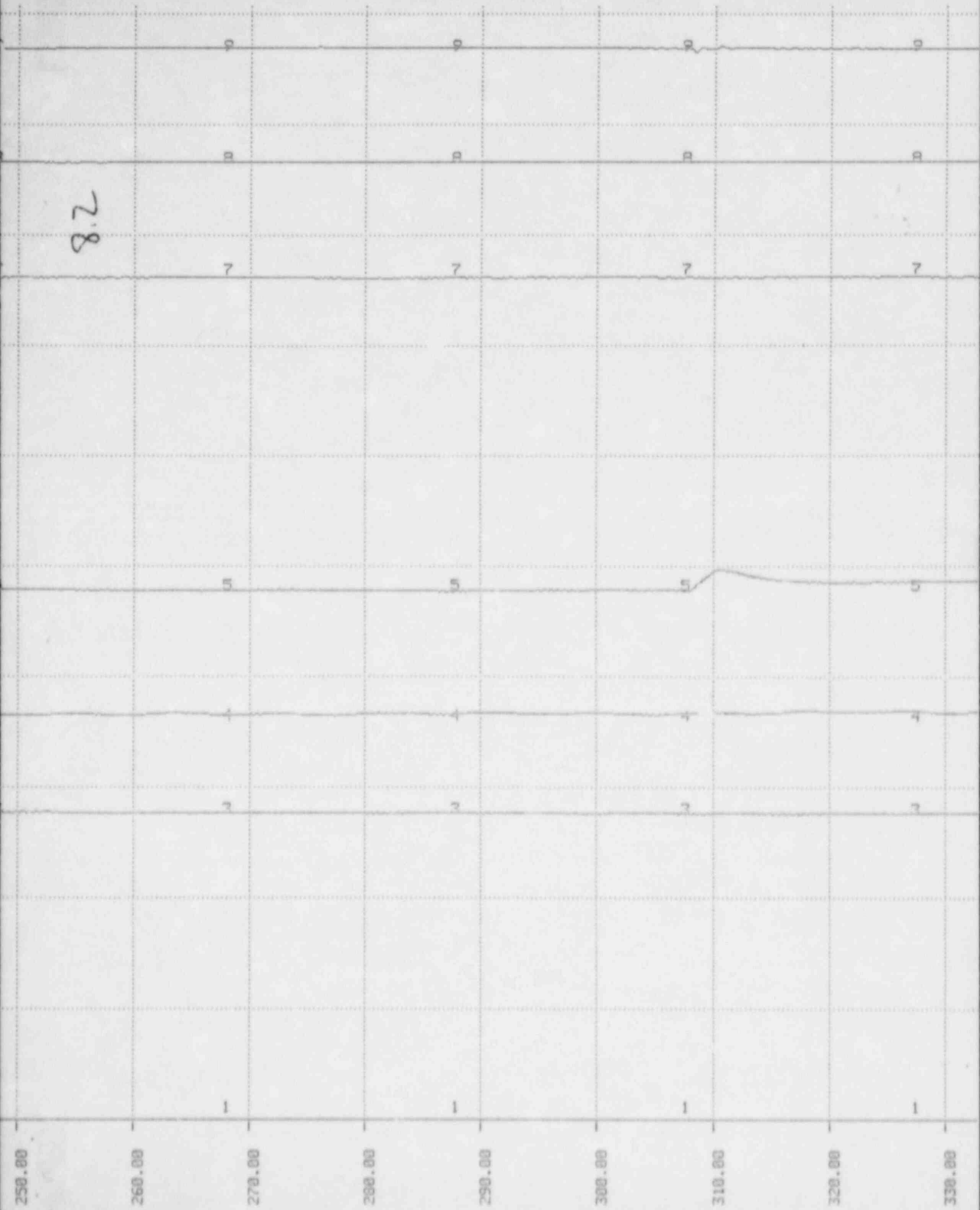
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 VAC VAC VAC  
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 OFF 0.0 OFF 0.0 OFF 0.0  
 ORG. 7. ORG. 8. ORG. 9.



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 Start Recording  
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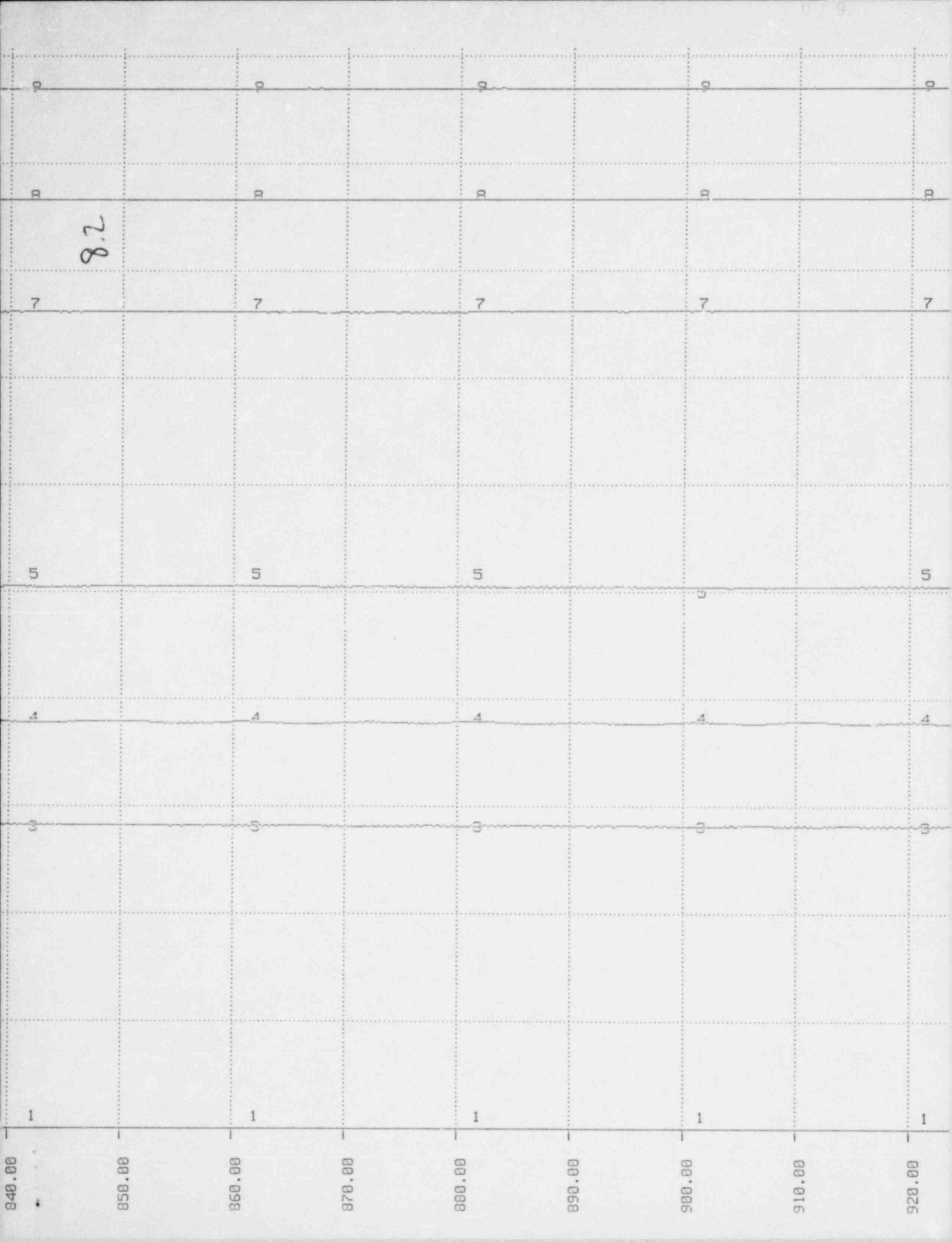
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STOP FIVE  
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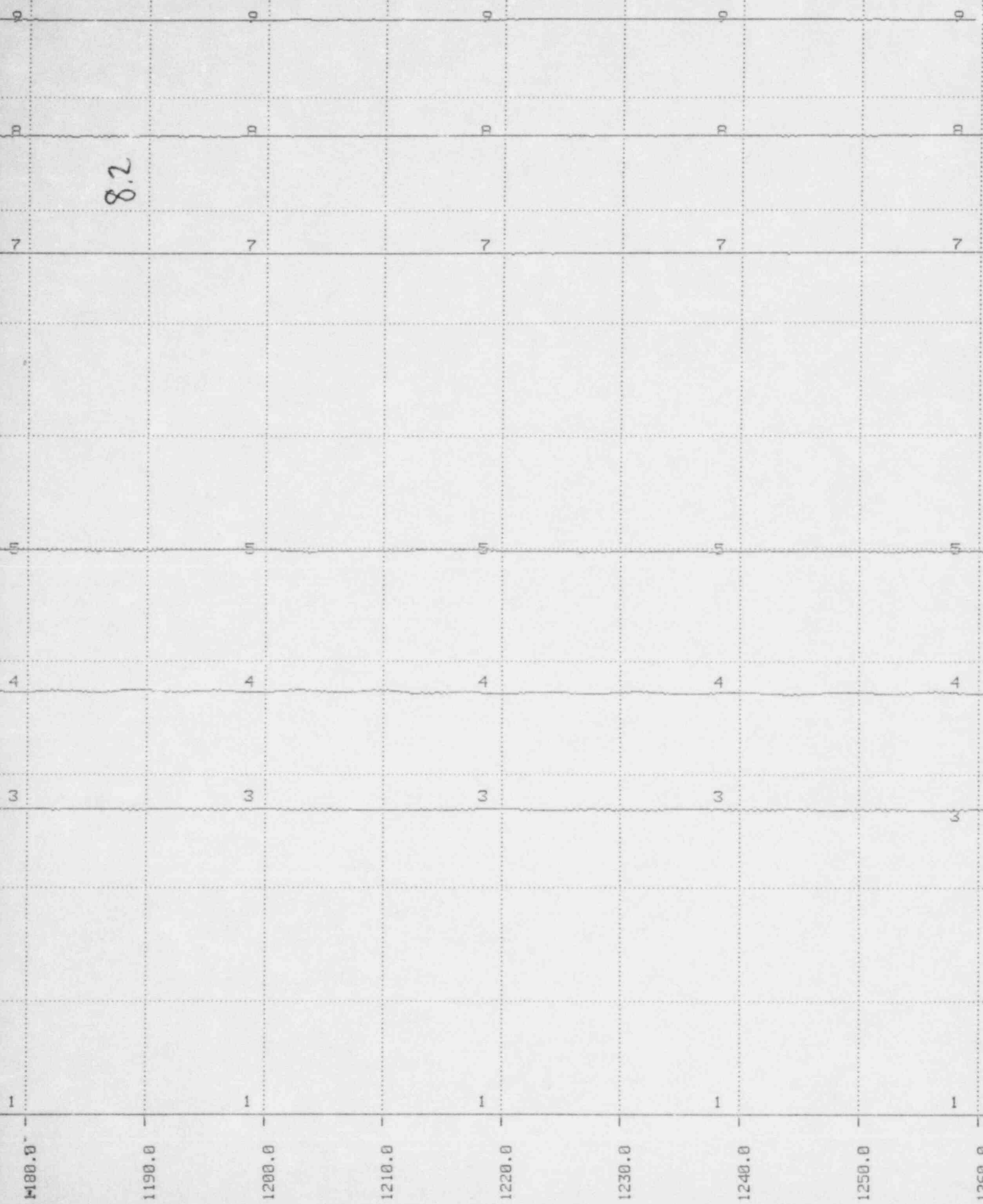
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1170.0  
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1290.0

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1310.0

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LIST OF RUNS

FILE 00000

RUN 1

DATE 0-15-64

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  
 03101VLT 06101KW 06102M.T 06103KW  
 VMC KU VMC KU

RELATIVE TIME 0 0 0 0

4844.521 2521.000 4142.899 2708.177  
 4839.969 2523.205 4145.894 2757.414  
 4843.240 2524.647 4142.639 2755.143  
 4842.240 2525.333 4143.329 2757.414  
 4844.231 2523.206 4142.819 2761.227  
 4844.521 2523.205 4143.182 2761.227  
 4842.951 2521.808 4142.229 2758.117  
 4839.398 2523.206 4146.044 2753.123  
 4841.670 2524.647 4143.329 2755.143

RELATIVE TIME

4842.240 2525.333 4146.047 2756.123  
 4842.240 2527.893 4145.182 2757.414  
 4846.231 2525.333 4142.639 2758.177  
 4844.521 2521.808 4144.611 2752.076  
 4839.969 2523.205 4145.894 2751.513  
 4841.670 2527.893 4145.223 2751.513  
 4839.969 2527.009 4145.899 2755.125  
 4839.969 2524.647 4145.182 2755.125  
 4839.398 2523.764 4144.611 2754.764  
 4839.969 2524.647 4147.484 2751.315

RELATIVE TIME

4842.240 2524.047 4142.735 2748.109  
 4841.670 2527.009 4142.639 2748.109  
 4844.521 2523.181 4146.047 2751.513  
 4844.521 2525.333 4145.182 2752.076  
 4846.231 2524.647 4144.611 2749.009  
 4846.001 2521.808 4144.611 2749.009  
 4839.969 2525.333 4145.182 2749.009  
 4841.670 2525.783 4145.182 2749.009  
 4844.521 2527.009 4145.047 2749.009  
 4844.521 2527.009 4145.611 2749.009

RELATIVE TIME

4846.801 2524.647 4142.899 2749.009  
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 4842.240 2525.333 4145.182 2749.009  
 4842.240 2527.009 4146.047 2749.009  
 4842.240 2523.181 4145.047 2749.009  
 4846.231 2525.333 4145.182 2749.009  
 4846.231 2527.009 4145.182 2749.009  
 4842.240 2524.647 4147.484 2749.009  
 4844.521 2524.047 4142.030 2742.152













RELATIVE TIME	0	999
4041.521	2621.866	4145.454
4046.231	2617.952	4145.182
4041.670	2620.231	4145.654
4043.931	2624.847	4142.323
4046.891	2621.090	4142.349
4044.521	2621.015	4145.350
RELATIVE TIME	0	999
4046.861	2617.952	4145.611
4046.231	2621.866	4145.759
4044.521	2621.866	4148.947
4043.931	2623.296	4145.182
4046.861	2620.847	4142.589
4046.231	2623.166	4142.099
4046.231	2621.866	4145.182
4041.521	2621.866	4145.611
4046.231	2621.866	4142.323
4046.891	2626.333	4142.323
RELATIVE TIME	0	999
4049.892	2626.733	4148.617
4046.892	2624.847	4146.617
4047.943	2623.847	4142.856
4042.249	2622.266	4147.414
4043.931	2624.847	4142.856
4041.521	2623.233	4144.611
4046.891	2621.866	4142.323
4046.231	2624.847	4142.323
4049.892	2626.733	4142.323
4046.891	2624.847	4142.856
RELATIVE TIME	0	999
4046.891	2626.733	4148.617
4046.231	2624.847	4146.617
4041.521	2623.233	4144.611
4046.891	2621.866	4142.323
4046.231	2624.847	4142.323
4049.892	2626.733	4142.323
4046.891	2624.847	4142.856
RELATIVE TIME	0	999
4046.891	2626.733	4148.617
4046.231	2624.847	4146.617
4041.521	2623.233	4144.611
4046.891	2621.866	4142.323
4046.231	2624.847	4142.323
4049.892	2626.733	4142.323
4046.891	2624.847	4142.856

999

33

RELATIVE TIME

4842.249 2634.547 4144.611 2763.454  
 4842.249 2631.560 4144.611 2761.237  
 4845.981 2624.947 4142.539 2763.515  
 4848.511 2623.237 4142.379 2764.277  
 4848.511 2617.909 4144.611 2764.277  
 4842.249 2620.237 4147.404 2761.237  
 4842.249 2623.237 4144.611 2761.237

999

34

RELATIVE TIME

4842.249 2634.547 4144.611 2763.454  
 4842.249 2631.560 4144.611 2761.237  
 4845.981 2624.947 4142.539 2763.515  
 4848.511 2623.237 4142.379 2764.277  
 4848.511 2617.909 4144.611 2764.277  
 4842.249 2620.237 4147.404 2761.237  
 4842.249 2623.237 4144.611 2761.237

999

35

RELATIVE TIME

4842.249 2634.547 4144.611 2763.454  
 4842.249 2631.560 4144.611 2761.237  
 4845.981 2624.947 4142.539 2763.515  
 4848.511 2623.237 4142.379 2764.277  
 4848.511 2617.909 4144.611 2764.277  
 4842.249 2620.237 4147.404 2761.237  
 4842.249 2623.237 4144.611 2761.237

999

36

RELATIVE TIME

4842.249 2634.547 4144.611 2763.454  
 4842.249 2631.560 4144.611 2761.237  
 4845.981 2624.947 4142.539 2763.515  
 4848.511 2623.237 4142.379 2764.277  
 4848.511 2617.909 4144.611 2764.277  
 4842.249 2620.237 4147.404 2761.237  
 4842.249 2623.237 4144.611 2761.237

999

37

RELATIVE TIME

4842.249 2634.547 4144.611 2763.454  
 4842.249 2631.560 4144.611 2761.237  
 4845.981 2624.947 4142.539 2763.515  
 4848.511 2623.237 4142.379 2764.277  
 4848.511 2617.909 4144.611 2764.277  
 4842.249 2620.237 4147.404 2761.237  
 4842.249 2623.237 4144.611 2761.237



RELATIVE TIME	2617.189	4142.132	2756.177	959
4042.249	2617.952	4147.454	2754.356	
4043.951	2617.189	4144.511	2755.126	
4043.951	2617.952	4147.329	2755.186	
4047.249	2626.237	4142.938	2757.714	
4044.521	2614.142	4144.511	2754.464	
4045.201	2611.825	4142.839	2755.177	
4045.991	2611.825	4142.359	2752.414	
4044.521	2614.914	4140.619	2755.156	
RELATIVE TIME	2614.904	4142.132	2756.177	959
4042.249	2617.065	4144.511	2755.177	
4043.951	2611.955	4143.517	2761.227	
4047.249	2626.508	4142.839	2761.227	
4044.521	2611.894	4141.329	2757.414	
4044.521	2616.845	4142.132	2752.177	
4044.521	2611.894	4141.511	2758.454	
4044.521	2611.894	4142.839	2763.515	
4049.502	2605.768	4146.517	2757.536	
4050.792	2604.954	4142.329	2755.545	
RELATIVE TIME	2602.712	4142.839	2755.545	959
4046.881	2604.954	4142.839	2755.545	
4046.881	2604.954	4142.839	2755.545	
4047.249	2604.954	4142.839	2755.545	
4044.521	2602.712	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
RELATIVE TIME	2604.954	4142.839	2755.545	959
4046.881	2604.954	4142.839	2755.545	
4046.881	2604.954	4142.839	2755.545	
4047.249	2604.954	4142.839	2755.545	
4044.521	2602.712	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
RELATIVE TIME	2604.954	4142.839	2755.545	959
4046.881	2604.954	4142.839	2755.545	
4046.881	2604.954	4142.839	2755.545	
4047.249	2604.954	4142.839	2755.545	
4044.521	2602.712	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
RELATIVE TIME	2604.954	4142.839	2755.545	959
4046.881	2604.954	4142.839	2755.545	
4046.881	2604.954	4142.839	2755.545	
4047.249	2604.954	4142.839	2755.545	
4044.521	2602.712	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
RELATIVE TIME	2604.954	4142.839	2755.545	959
4046.881	2604.954	4142.839	2755.545	
4046.881	2604.954	4142.839	2755.545	
4047.249	2604.954	4142.839	2755.545	
4044.521	2602.712	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	
4049.502	2604.954	4142.839	2755.545	





RELATIVE TIME	Y	D	52	999
4045.231	2576.328	4144.611	2745.975	
4045.301	2575.290	4145.102	2745.542	
4045.371	2574.270	4145.182	2745.929	
4045.441	2573.282	4145.059	2742.182	
4045.511	2572.265	4145.039	2729.975	
4045.581	2571.269	4145.182	2742.162	
4045.651	2570.264	4145.611	2742.254	
4045.721	2574.370	4144.511	2742.949	
4045.791	2575.280	4145.999	2749.875	
4045.861	2575.249	4145.034	2736.132	
RELATIVE TIME	Y	D	53	999
4045.931	2576.328	4142.039	2726.624	
4045.999	2575.290	4145.329	2739.112	
4046.069	2577.266	4145.511	2736.034	
4046.139	2574.270	4145.192	2739.112	
4046.209	2575.280	4145.162	2735.624	
4046.279	2572.269	4145.511	2739.724	
4046.349	2577.266	4142.999	2733.014	
4046.419	2578.270	4140.547	2739.911	
4046.489	2579.280	4142.329	2739.361	
RELATIVE TIME	Y	D	54	999
4046.559	2576.328	4145.894	2727.673	
4046.629	2576.614	4142.599	2724.624	
4046.699	2581.328	4142.239	2726.911	
4046.769	2581.370	4143.192	2734.624	
4046.839	2577.266	4145.894	2724.875	
4046.909	2575.290	4145.746	2724.624	
4046.979	2578.270	4144.511	2726.514	
4047.049	2577.266	4147.264	2726.414	
4047.119	2575.280	4142.917	2716.912	
4047.189	2575.249	4140.847	2726.624	
RELATIVE TIME	Y	D	55	999
4047.259	2576.614	4142.30	2726.816	
4047.329	2575.290	4144.511	2716.822	
4047.399	2579.280	4143.176	2717.761	
4047.469	2570.269	4142.329	2717.269	
4047.539	2577.266	4142.039	2715.542	
4047.609	2578.270	4144.511	2717.760	
4047.679	2575.290	4140.517	2717.760	
4047.749	2575.280	4142.269	2714.769	
4047.819	2577.266	4142.894	2714.769	
RELATIVE TIME	Y	D	56	999
4047.889	2578.270	4144.511	2719.322	
4047.959	2579.280	4142.329	2728.919	
4048.029	2576.614	4143.182	2728.919	
4048.099	2575.290	4145.182	2728.919	
4048.169	2575.269	4142.039	2717.769	
4048.239	2575.269	4145.192	2716.929	
4048.309	2577.266	4145.192	2716.929	
4048.379	2578.270	4144.511	2729.319	
4048.449	2577.266	4145.192	2724.673	
4048.519	2574.270	4142.329	2726.624	



## OFF-LINE PLOT

J.S.T. STEP 8.3 8/16/84

FILE # 1

RUN # 1

DATE 8/16/84

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

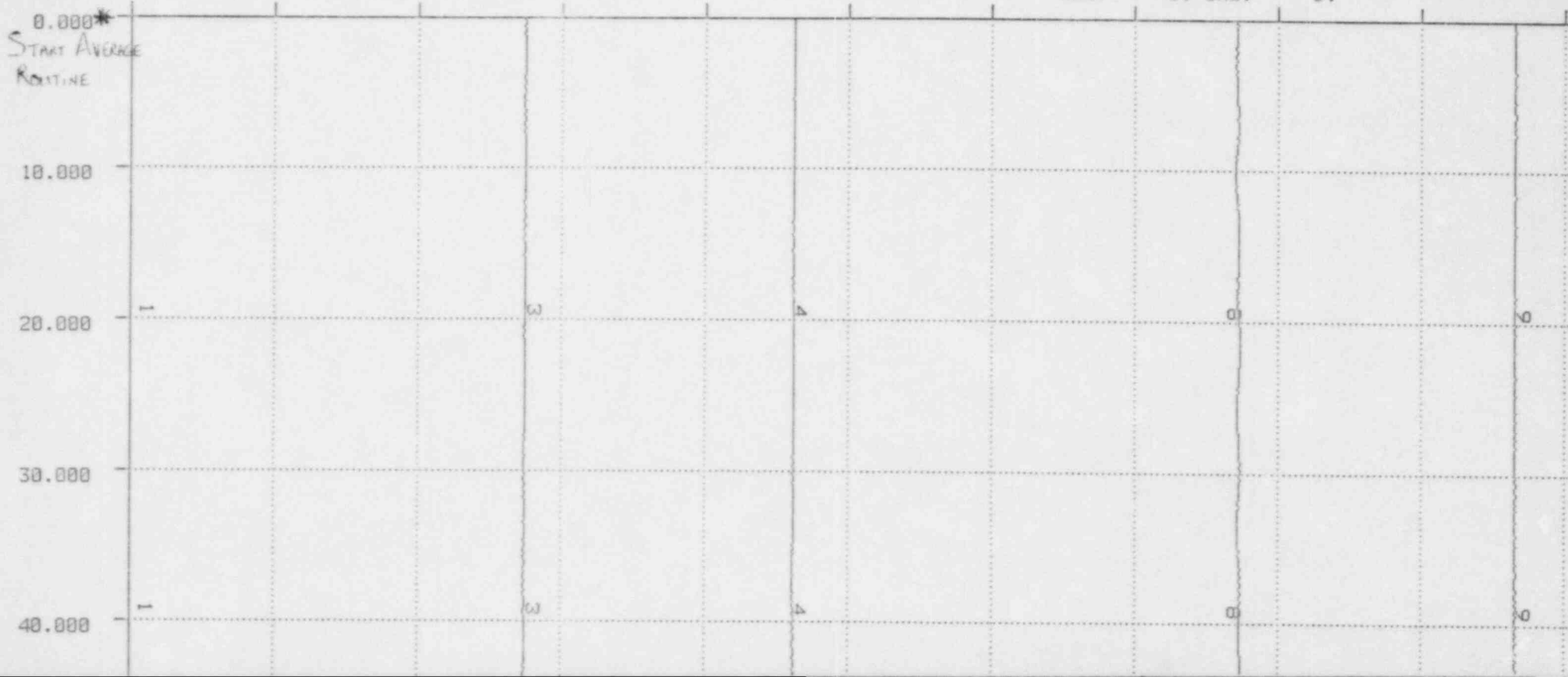
BEGINNING AT 0.00 SECS. FROM START OF RUN

10.000SEC./GRID LINE

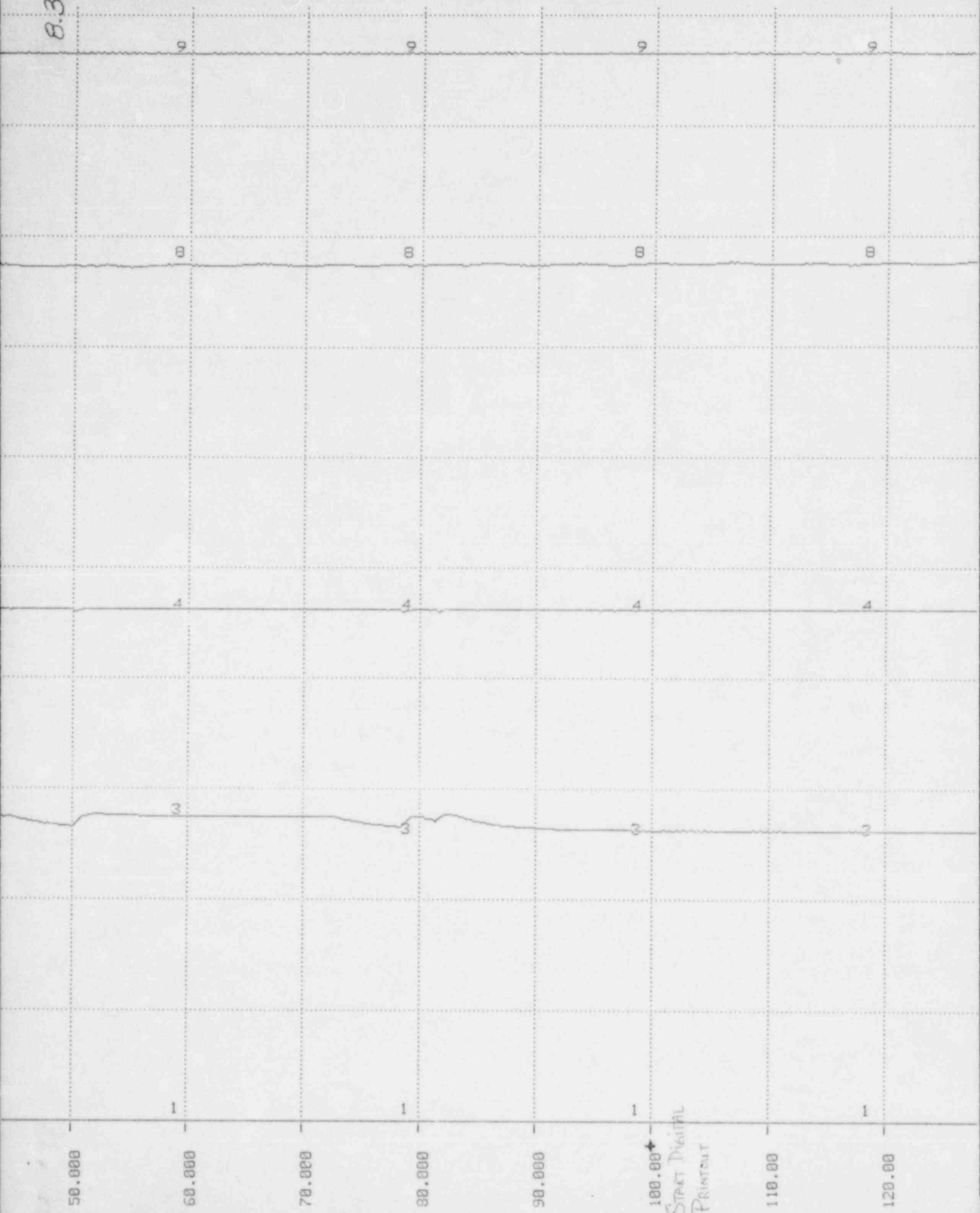
CHAN# 214  
LOCA INT  
VOLT  
EU 10.0  
OFF 0.0  
ORG. 1.

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



8.3



8-3

130.00

140.00

150.00

160.00+

Stop Depth

170.00

180.00

190.00

200.00

210.00

1

1

1

1

3

3

3

3

4

4

4

4

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9

9

9

9

8.3

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9

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9

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1

1

1

220.00

230.00

240.00

250.00

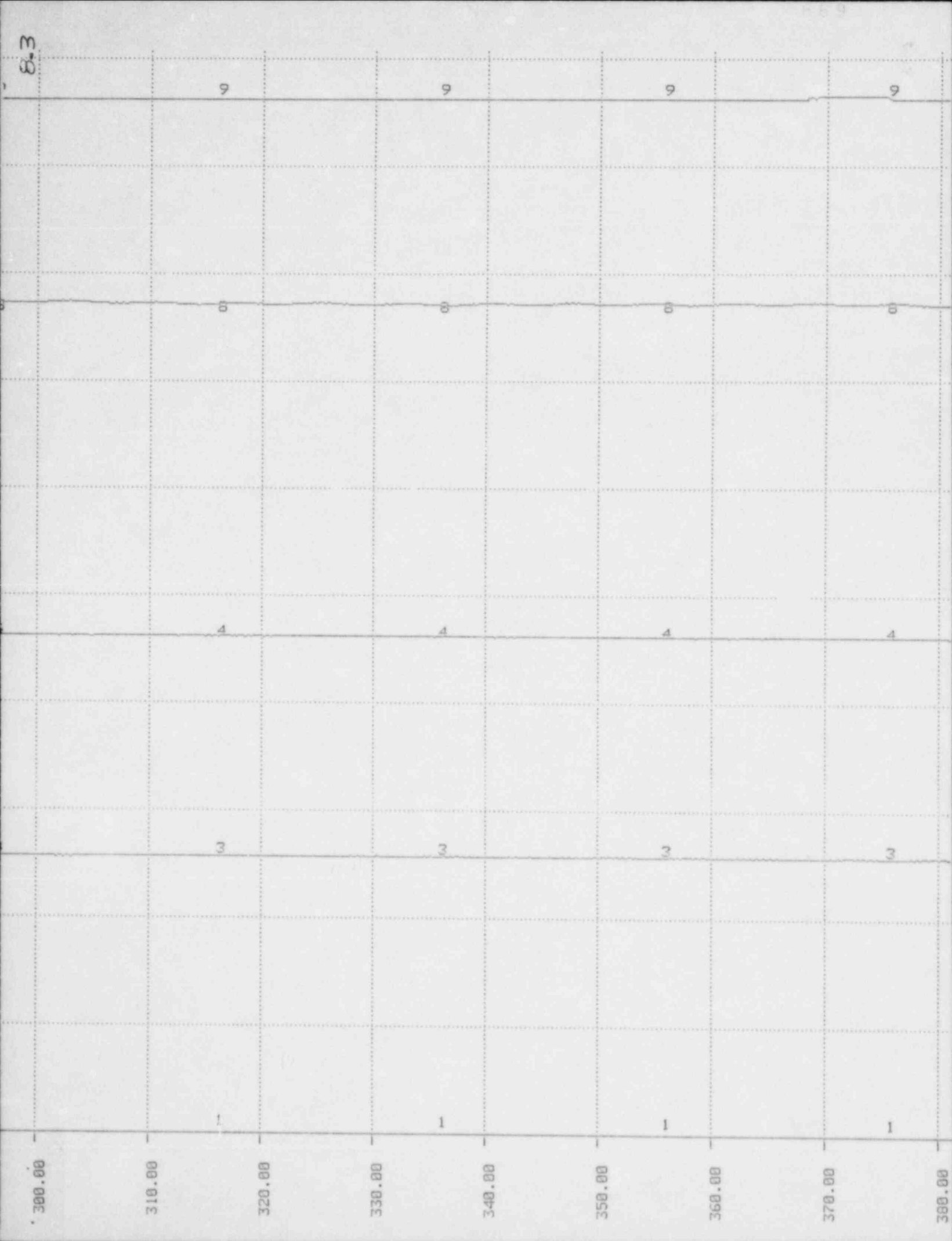
260.00

270.00

280.00

290.00





8.3

9

9

9

9

8

8

8

8

4

4

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3

3

3

3

1

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390.00

400.00

410.00

420.00

430.00

440.00

450.00

460.00

2.3

9

9

9

9

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4

4

4

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3

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3

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1

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470.00

480.00

490.00

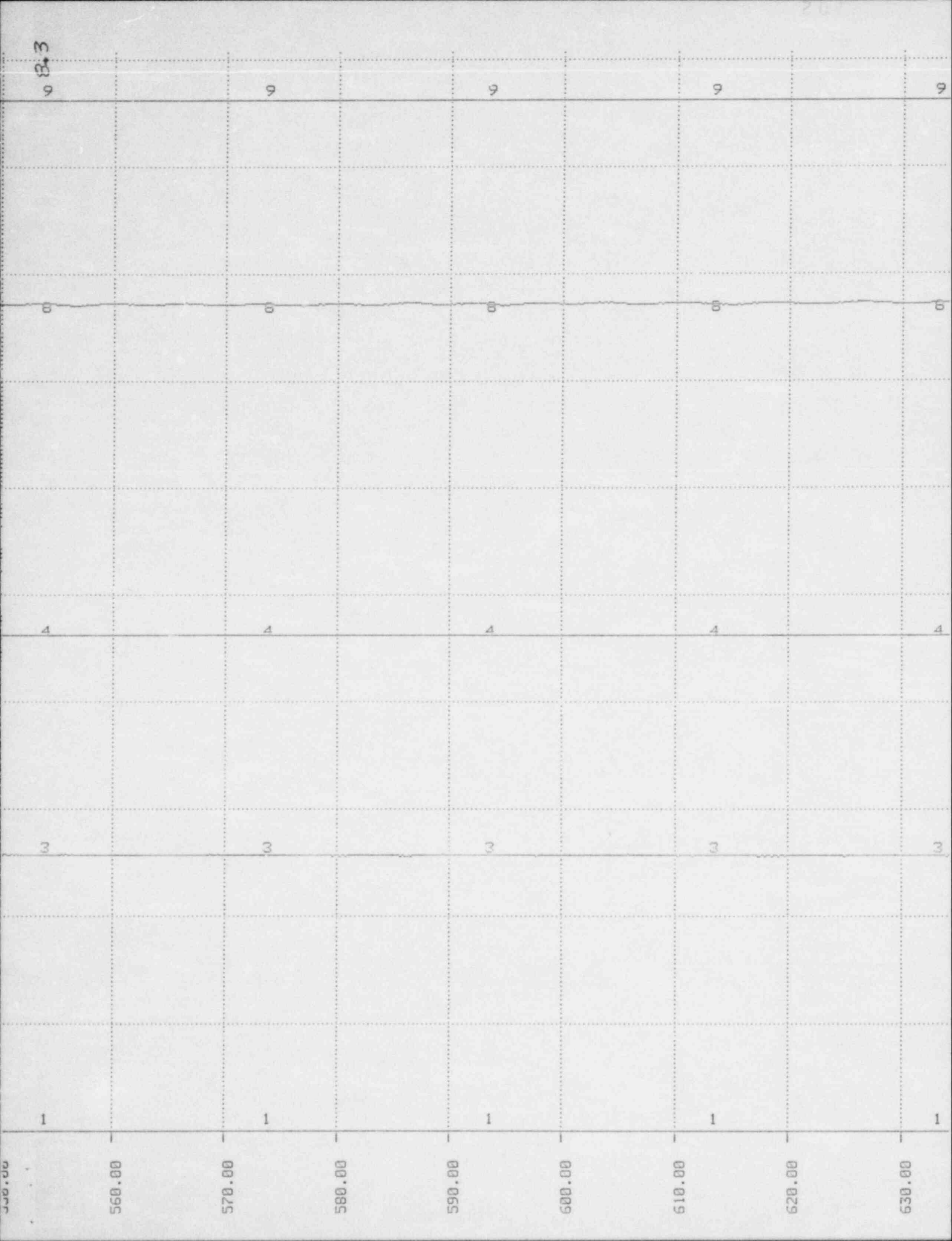
500.00

510.00

520.00

530.00

540.00



8.3

9

9

9

9

8

8

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8

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4

3

3

3

3

1

1

1

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640.00

650.00

660.00

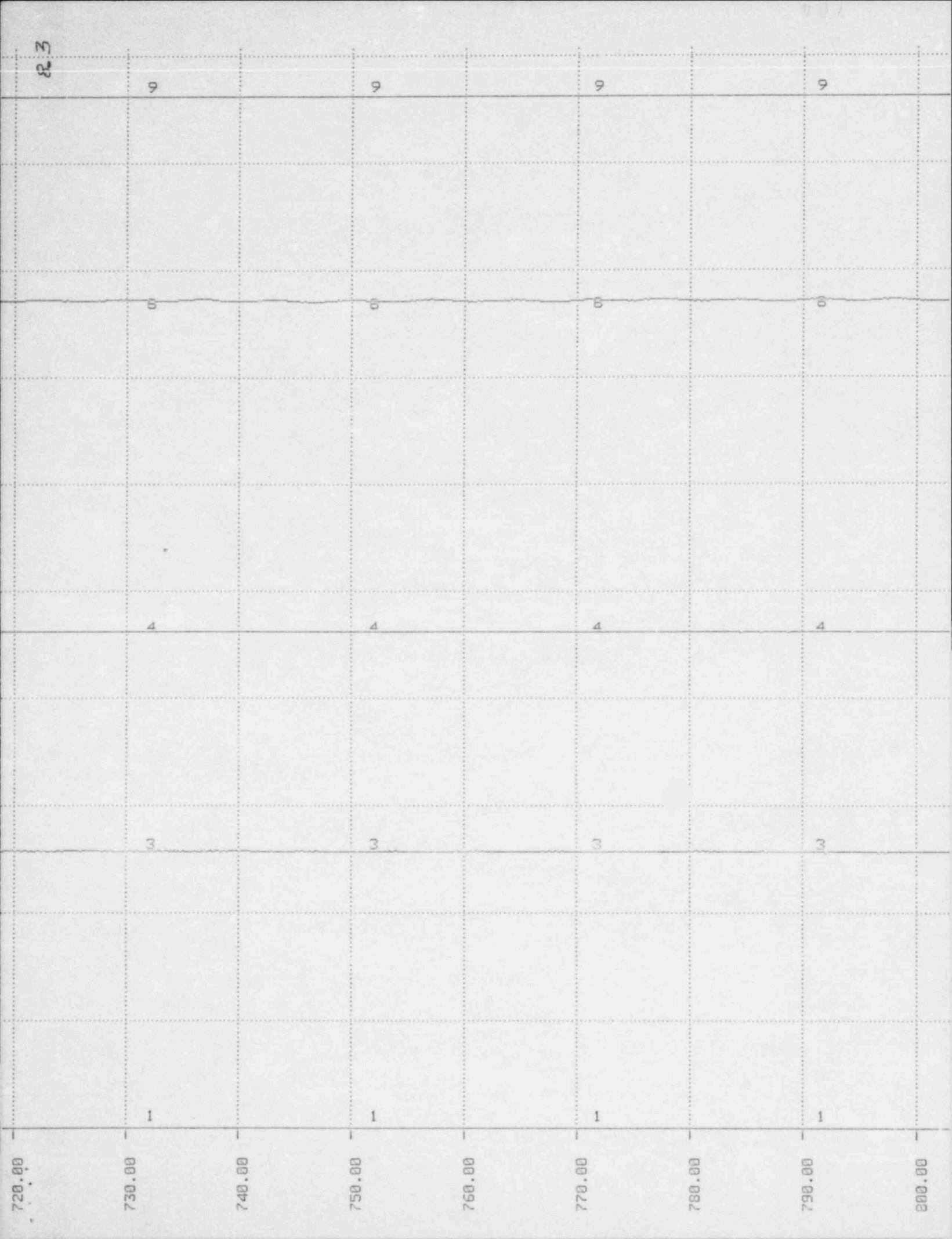
670.00

680.00

690.00

700.00

710.00



8.3

9

9

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4

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1

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1

810.00

820.00

830.00

840.00\*  
STOP PULSAGE  
ROUTINE

850.00

860.00

870.00

880.00







RELATIVE TIME	2068.267	4188.405	2079.123
4051.762			
4058.511	2797.626	4188.436	2079.123
4065.261	2803.115	4189.597	2079.052
4072.011	2808.677	4193.271	2079.033
4078.761	2814.221	4193.271	2079.033
4085.511	2819.765	4193.271	2079.033
4092.261	2825.309	4193.271	2079.033
4099.011	2830.853	4193.271	2079.033
4105.761	2836.397	4193.271	2079.033
4112.511	2841.941	4193.271	2079.033
4119.261	2847.485	4193.271	2079.033
4126.011	2853.029	4193.271	2079.033
4132.761	2858.573	4193.271	2079.033
4139.511	2864.117	4193.271	2079.033
4146.261	2869.661	4193.271	2079.033
4153.011	2875.205	4193.271	2079.033
4159.761	2880.749	4193.271	2079.033
4166.511	2886.293	4193.271	2079.033
4173.261	2891.837	4193.271	2079.033
4180.011	2897.381	4193.271	2079.033
4186.761	2902.925	4193.271	2079.033
4193.511	2908.469	4193.271	2079.033
4200.261	2914.013	4193.271	2079.033
4207.011	2919.557	4193.271	2079.033
4213.761	2925.101	4193.271	2079.033
4220.511	2930.645	4193.271	2079.033
4227.261	2936.189	4193.271	2079.033
4234.011	2941.733	4193.271	2079.033
4240.761	2947.277	4193.271	2079.033
4247.511	2952.821	4193.271	2079.033
4254.261	2958.365	4193.271	2079.033
4261.011	2963.909	4193.271	2079.033
4267.761	2969.453	4193.271	2079.033
4274.511	2974.997	4193.271	2079.033
4281.261	2980.541	4193.271	2079.033
4288.011	2986.085	4193.271	2079.033
4294.761	2991.629	4193.271	2079.033
4301.511	2997.173	4193.271	2079.033
4308.261	3002.717	4193.271	2079.033
4315.011	3008.261	4193.271	2079.033
4321.761	3013.805	4193.271	2079.033
4328.511	3019.349	4193.271	2079.033
4335.261	3024.893	4193.271	2079.033
4342.011	3030.437	4193.271	2079.033
4348.761	3035.981	4193.271	2079.033
4355.511	3041.525	4193.271	2079.033
4362.261	3047.069	4193.271	2079.033
4369.011	3052.613	4193.271	2079.033
4375.761	3058.157	4193.271	2079.033
4382.511	3063.701	4193.271	2079.033
4389.261	3069.245	4193.271	2079.033
4396.011	3074.789	4193.271	2079.033
4402.761	3080.333	4193.271	2079.033
4409.511	3085.877	4193.271	2079.033
4416.261	3091.421	4193.271	2079.033
4423.011	3096.965	4193.271	2079.033
4429.761	3102.509	4193.271	2079.033
4436.511	3108.053	4193.271	2079.033
4443.261	3113.597	4193.271	2079.033
4450.011	3119.141	4193.271	2079.033
4456.761	3124.685	4193.271	2079.033
4463.511	3130.229	4193.271	2079.033
4470.261	3135.773	4193.271	2079.033
4477.011	3141.317	4193.271	2079.033
4483.761	3146.861	4193.271	2079.033
4490.511	3152.405	4193.271	2079.033
4497.261	3157.949	4193.271	2079.033
4504.011	3163.493	4193.271	2079.033
4510.761	3169.037	4193.271	2079.033
4517.511	3174.581	4193.271	2079.033
4524.261	3180.125	4193.271	2079.033
4531.011	3185.669	4193.271	2079.033
4537.761	3191.213	4193.271	2079.033
4544.511	3196.757	4193.271	2079.033
4551.261	3202.301	4193.271	2079.033
4558.011	3207.845	4193.271	2079.033
4564.761	3213.389	4193.271	2079.033
4571.511	3218.933	4193.271	2079.033
4578.261	3224.477	4193.271	2079.033
4585.011	3230.021	4193.271	2079.033
4591.761	3235.565	4193.271	2079.033
4598.511	3241.109	4193.271	2079.033
4605.261	3246.653	4193.271	2079.033
4612.011	3252.197	4193.271	2079.033
4618.761	3257.741	4193.271	2079.033
4625.511	3263.285	4193.271	2079.033
4632.261	3268.829	4193.271	2079.033
4639.011	3274.373	4193.271	2079.033
4645.761	3279.917	4193.271	2079.033
4652.511	3285.461	4193.271	2079.033
4659.261	3291.005	4193.271	2079.033
4666.011	3296.549	4193.271	2079.033
4672.761	3302.093	4193.271	2079.033
4679.511	3307.637	4193.271	2079.033
4686.261	3313.181	4193.271	2079.033
4693.011	3318.725	4193.271	2079.033
4699.761	3324.269	4193.271	2079.033
4706.511	3329.813	4193.271	2079.033
4713.261	3335.357	4193.271	2079.033
4720.011	3340.901	4193.271	2079.033
4726.761	3346.445	4193.271	2079.033
4733.511	3351.989	4193.271	2079.033
4740.261	3357.533	4193.271	2079.033
4747.011	3363.077	4193.271	2079.033
4753.761	3368.621	4193.271	2079.033
4760.511	3374.165	4193.271	2079.033
4767.261	3379.709	4193.271	2079.033
4774.011	3385.253	4193.271	2079.033
4780.761	3390.797	4193.271	2079.033
4787.511	3396.341	4193.271	2079.033
4794.261	3401.885	4193.271	2079.033
4801.011	3407.429	4193.271	2079.033
4807.761	3412.973	4193.271	2079.033
4814.511	3418.517	4193.271	2079.033
4821.261	3424.061	4193.271	2079.033
4828.011	3429.605	4193.271	2079.033
4834.761	3435.149	4193.271	2079.033
4841.511	3440.693	4193.271	2079.033
4848.261	3446.237	4193.271	2079.033
4855.011	3451.781	4193.271	2079.033
4861.761	3457.325	4193.271	2079.033
4868.511	3462.869	4193.271	2079.033
4875.261	3468.413	4193.271	2079.033
4882.011	3473.957	4193.271	2079.033
4888.761	3479.501	4193.271	2079.033
4895.511	3485.045	4193.271	2079.033
4902.261	3490.589	4193.271	2079.033
4909.011	3496.133	4193.271	2079.033
4915.761	3501.677	4193.271	2079.033
4922.511	3507.221	4193.271	2079.033
4929.261	3512.765	4193.271	2079.033
4936.011	3518.309	4193.271	2079.033
4942.761	3523.853	4193.271	2079.033
4949.511	3529.397	4193.271	2079.033
4956.261	3534.941	4193.271	2079.033
4963.011	3540.485	4193.271	2079.033
4969.761	3546.029	4193.271	2079.033
4976.511	3551.573	4193.271	2079.033
4983.261	3557.117	4193.271	2079.033
4990.011	3562.661	4193.271	2079.033
4996.761	3568.205	4193.271	2079.033
5003.511	3573.749	4193.271	2079.033
5010.261	3579.293	4193.271	2079.033
5017.011	3584.837	4193.271	2079.033
5023.761	3590.381	4193.271	2079.033
5030.511	3595.925	4193.271	2079.033
5037.261	3601.469	4193.271	2079.033
5044.011	3607.013	4193.271	2079.033
5050.761	3612.557	4193.271	2079.033
5057.511	3618.101	4193.271	2079.033
5064.261	3623.645	4193.271	2079.033
5071.011	3629.189	4193.271	2079.033
5077.761	3634.733	4193.271	2079.033
5084.511	3640.277	4193.271	2079.033
5091.261	3645.821	4193.271	2079.033
5098.011	3651.365	4193.271	2079.033
5104.761	3656.909	4193.271	2079.033
5111.511	3662.453	4193.271	2079.033
5118.261	3667.997	4193.271	2079.033
5125.011	3673.541	4193.271	2079.033
5131.761	3679.085	4193.271	2079.033
5138.511	3684.629	4193.271	2079.033
5145.261	3690.173	4193.271	2079.033
5152.011	3695.717	4193.271	2079.033
5158.761	3701.261	4193.271	2079.033
5165.511	3706.805	4193.271	2079.033
5172.261	3712.349	4193.271	2079.033
5179.011	3717.893	4193.271	2079.033
5185.761	3723.437	4193.271	2079.033
5192.511	3728.981	4193.271	2079.033
5199.261	3734.525	4193.271	2079.033
5206.011	3740.069	4193.271	2079.033
5212.761	3745.613	4193.271	2079.033
5219.511	3751.157	4193.271	2079.033
5226.261	3756.701	4193.271	2079.033
5233.011	3762.245	4193.271	2079.033
5239.761	3767.789	4193.271	2079.033
5246.511	3773.333	4193.271	2079.033
5253.261	3778.877	4193.271	2079.033
5260.011	3784.421	4193.271	2079.033
5266.761	3789.965	4193.271	2079.033
5273.511	3795.509	4193.271	2079.033
5280.261	3801.053	4193.271	2079.033
5287.011	3806.597	4193.271	2079.033
5293.761	3812.141	4193.271	2079.033
5300.511	3817.685	4193.271	2079.033
5307.261	3823.229	4193.271	2079.033
5314.011	3828.773	4193.271	2079.033
5320.761	3834.317	4193.271	2079.033
5327.511	3839.861	4193.271	2079.033
5334.261	3845.405	4193.271	2079.033
5341.011	3850.949	4193.271	2079.033
5347.761	3856.493	4193.271	2079.033
5354.511	3862.037	4193.271	2079.033
5361.261	3867.581	4193.271	2079.033
5368.011	3873.125	4193.271	2079.033
5374.761	3878.669	4193.271	2079.033
5381.511	3884.213	4193.271	2079.033
5388.261	3889.757	4193.271	2079.033
5395.011	3895.301	4193.271	2079.033
5401.761	3900.845	4193.271	2079.033
5408.511	3906.389	4193.271	2079.033
5415.261	3911.933	4193.271	2079.033
5422.011	3917.477	4193.271	2079.033
5428.761	3923.021	4193.271	2079.033
5435.511	3928.565	4193.271	2079.033
5442.261	3934.109	4193.271	2079.033
5449.011	3939.653	4193.271	2079.033
5455.761	3945.197	4193.271	2079.033
5462.511	3950.741	4193.271	2079.033
5469.261	3956.285	4193.271	2079.033
5476.011	3961.829	4193.271	2079.03



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RELATIVE TIME

4853.642 2797.820 4178.686 2809.644  
 4851.962 2801.636 4181.271 2808.291  
 4851.362 2803.077 4184.908 2815.230  
 4850.792 2803.877 4185.562 2832.175  
 4853.642 2809.030 4182.667 2808.931  
 4853.642 2808.667 4182.697 2809.230  
 4845.832 2803.620 4182.697 2805.528  
 4849.832 2809.636 4184.988 2805.991  
 4849.832 2809.636 4185.271 2805.238  
 4849.832 2805.115 4184.908 2802.175

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53

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9

RELATIVE TIME

4853.642 2797.820 4187.853 2803.175  
 4851.962 2801.636 4190.144 2803.175  
 4851.362 2803.077 4190.144 2803.175  
 4850.792 2803.877 4190.144 2803.175  
 4853.642 2809.030 4190.144 2803.175  
 4853.642 2808.667 4190.144 2803.175  
 4845.832 2803.620 4190.144 2803.175  
 4849.832 2809.636 4190.144 2803.175  
 4849.832 2809.636 4190.144 2803.175  
 4849.832 2805.115 4190.144 2803.175

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RELATIVE TIME

4853.642 2797.820 4190.144 2803.175  
 4851.962 2801.636 4190.144 2803.175  
 4851.362 2803.077 4190.144 2803.175  
 4850.792 2803.877 4190.144 2803.175  
 4853.642 2809.030 4190.144 2803.175  
 4853.642 2808.667 4190.144 2803.175  
 4845.832 2803.620 4190.144 2803.175  
 4849.832 2809.636 4190.144 2803.175  
 4849.832 2809.636 4190.144 2803.175  
 4849.832 2805.115 4190.144 2803.175

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9

RELATIVE TIME

4853.642 2797.820 4190.144 2803.175  
 4851.962 2801.636 4190.144 2803.175  
 4851.362 2803.077 4190.144 2803.175  
 4850.792 2803.877 4190.144 2803.175  
 4853.642 2809.030 4190.144 2803.175  
 4853.642 2808.667 4190.144 2803.175  
 4845.832 2803.620 4190.144 2803.175  
 4849.832 2809.636 4190.144 2803.175  
 4849.832 2809.636 4190.144 2803.175  
 4849.832 2805.115 4190.144 2803.175

RELATIVE TIME	2	57	253
4849.862	2803.115	4191.851	2867.370
4849.911	2803.115	4190.144	2867.391
4850.001	2803.115	4189.578	2867.391
4850.091	2803.115	4187.853	2867.391
4850.181	2803.115	4186.144	2867.391
4850.271	2803.115	4184.435	2867.391
4850.361	2803.115	4182.726	2867.391
4850.451	2803.115	4181.017	2867.391
4850.541	2803.115	4179.308	2867.391
4850.631	2803.115	4177.599	2867.391
4850.721	2803.115	4175.890	2867.391
4850.811	2803.115	4174.181	2867.391
4850.901	2803.115	4172.472	2867.391
4851.001	2803.115	4170.763	2867.391
4851.091	2803.115	4169.054	2867.391
4851.181	2803.115	4167.345	2867.391
4851.271	2803.115	4165.636	2867.391
4851.361	2803.115	4163.927	2867.391
4851.451	2803.115	4162.218	2867.391
4851.541	2803.115	4160.509	2867.391
4851.631	2803.115	4158.800	2867.391
4851.721	2803.115	4157.091	2867.391
4851.811	2803.115	4155.382	2867.391
4851.901	2803.115	4153.673	2867.391
4852.001	2803.115	4151.964	2867.391
4852.091	2803.115	4150.255	2867.391
4852.181	2803.115	4148.546	2867.391
4852.271	2803.115	4146.837	2867.391
4852.361	2803.115	4145.128	2867.391
4852.451	2803.115	4143.419	2867.391
4852.541	2803.115	4141.710	2867.391
4852.631	2803.115	4140.001	2867.391
4852.721	2803.115	4138.292	2867.391
4852.811	2803.115	4136.583	2867.391
4852.901	2803.115	4134.874	2867.391
4853.001	2803.115	4133.165	2867.391
4853.091	2803.115	4131.456	2867.391
4853.181	2803.115	4129.747	2867.391
4853.271	2803.115	4128.038	2867.391
4853.361	2803.115	4126.329	2867.391
4853.451	2803.115	4124.620	2867.391
4853.541	2803.115	4122.911	2867.391
4853.631	2803.115	4121.202	2867.391
4853.721	2803.115	4119.493	2867.391
4853.811	2803.115	4117.784	2867.391
4853.901	2803.115	4116.075	2867.391
4854.001	2803.115	4114.366	2867.391
4854.091	2803.115	4112.657	2867.391
4854.181	2803.115	4110.948	2867.391
4854.271	2803.115	4109.239	2867.391
4854.361	2803.115	4107.530	2867.391
4854.451	2803.115	4105.821	2867.391
4854.541	2803.115	4104.112	2867.391
4854.631	2803.115	4102.403	2867.391
4854.721	2803.115	4100.694	2867.391
4854.811	2803.115	4098.985	2867.391
4854.901	2803.115	4097.276	2867.391
4855.001	2803.115	4095.567	2867.391
4855.091	2803.115	4093.858	2867.391
4855.181	2803.115	4092.149	2867.391
4855.271	2803.115	4090.440	2867.391
4855.361	2803.115	4088.731	2867.391
4855.451	2803.115	4087.022	2867.391
4855.541	2803.115	4085.313	2867.391
4855.631	2803.115	4083.604	2867.391
4855.721	2803.115	4081.895	2867.391
4855.811	2803.115	4080.186	2867.391
4855.901	2803.115	4078.477	2867.391
4856.001	2803.115	4076.768	2867.391
4856.091	2803.115	4075.059	2867.391
4856.181	2803.115	4073.350	2867.391
4856.271	2803.115	4071.641	2867.391
4856.361	2803.115	4069.932	2867.391
4856.451	2803.115	4068.223	2867.391
4856.541	2803.115	4066.514	2867.391
4856.631	2803.115	4064.805	2867.391
4856.721	2803.115	4063.096	2867.391
4856.811	2803.115	4061.387	2867.391
4856.901	2803.115	4059.678	2867.391
4857.001	2803.115	4057.969	2867.391
4857.091	2803.115	4056.260	2867.391
4857.181	2803.115	4054.551	2867.391
4857.271	2803.115	4052.842	2867.391
4857.361	2803.115	4051.133	2867.391
4857.451	2803.115	4049.424	2867.391
4857.541	2803.115	4047.715	2867.391
4857.631	2803.115	4046.006	2867.391
4857.721	2803.115	4044.297	2867.391
4857.811	2803.115	4042.588	2867.391
4857.901	2803.115	4040.879	2867.391
4858.001	2803.115	4039.170	2867.391
4858.091	2803.115	4037.461	2867.391
4858.181	2803.115	4035.752	2867.391
4858.271	2803.115	4034.043	2867.391
4858.361	2803.115	4032.334	2867.391
4858.451	2803.115	4030.625	2867.391
4858.541	2803.115	4028.916	2867.391
4858.631	2803.115	4027.207	2867.391
4858.721	2803.115	4025.498	2867.391
4858.811	2803.115	4023.789	2867.391
4858.901	2803.115	4022.080	2867.391
4859.001	2803.115	4020.371	2867.391
4859.091	2803.115	4018.662	2867.391
4859.181	2803.115	4016.953	2867.391
4859.271	2803.115	4015.244	2867.391
4859.361	2803.115	4013.535	2867.391
4859.451	2803.115	4011.826	2867.391
4859.541	2803.115	4010.117	2867.391
4859.631	2803.115	4008.408	2867.391
4859.721	2803.115	4006.699	2867.391
4859.811	2803.115	4004.990	2867.391
4859.901	2803.115	4003.281	2867.391
4860.001	2803.115	4001.572	2867.391
4860.091	2803.115	3999.863	2867.391
4860.181	2803.115	3998.154	2867.391
4860.271	2803.115	3996.445	2867.391
4860.361	2803.115	3994.736	2867.391
4860.451	2803.115	3993.027	2867.391
4860.541	2803.115	3991.318	2867.391
4860.631	2803.115	3989.609	2867.391
4860.721	2803.115	3987.900	2867.391
4860.811	2803.115	3986.191	2867.391
4860.901	2803.115	3984.482	2867.391
4861.001	2803.115	3982.773	2867.391
4861.091	2803.115	3981.064	2867.391
4861.181	2803.115	3979.355	2867.391
4861.271	2803.115	3977.646	2867.391
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4861.451	2803.115	3974.228	2867.391
4861.541	2803.115	3972.519	2867.391
4861.631	2803.115	3970.810	2867.391
4861.721	2803.115	3969.101	2867.391
4861.811	2803.115	3967.392	2867.391
4861.901	2803.115	3965.683	2867.391
4862.001	2803.115	3963.974	2867.391
4862.091	2803.115	3962.265	2867.391
4862.181	2803.115	3960.556	2867.391
4862.271	2803.115	3958.847	2867.391
4862.361	2803.115	3957.138	2867.391
4862.451	2803.115	3955.429	2867.391
4862.541	2803.115	3953.720	2867.391
4862.631	2803.115	3952.011	2867.391
4862.721	2803.115	3950.302	2867.391
4862.811	2803.115	3948.593	2867.391
4862.901	2803.115	3946.884	2867.391
4863.001	2803.115	3945.175	2867.391
4863.091	2803.115	3943.466	2867.391
4863.181	2803.115	3941.757	2867.391
4863.271	2803.115	3940.048	2867.391
4863.361	2803.115	3938.339	2867.391
4863.451	2803.115	3936.630	2867.391
4863.541	2803.115	3934.921	2867.391
4863.631	2803.115	3933.212	2867.391
4863.721	2803.115	3931.503	2867.391
4863.811	2803.115	3929.794	2867.391
4863.901	2803.115	3928.085	2867.391
4864.001	2803.115	3926.376	2867.391
4864.091	2803.115	3924.667	2867.391
4864.181	2803.115	3922.958	2867.391
4864.271	2803.115	3921.249	2867.391
4864.361	2803.115	3919.540	2867.391
4864.451	2803.115	3917.831	2867.391
4864.541	2803.115	3916.122	2867.391
4864.631	2803.115	3914.413	2867.391
4864.721	2803.115	3912.704	2867.391
4864.811	2803.115	3910.995	2867.391
4864.901	2803.115	3909.286	2867.391
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4865.091	2803.115	3905.868	2867.391
4865.181	2803.115	3904.159	2867.391
4865.271	2803.115	3902.450	2867.391
4865.361	2803.115	3900.741	2867.391
4865.451	2803.115	3899.032	2867.391
4865.541	2803.115	3897.323	2867.391
4865.631	2803.115	3895.614	2867.391
4865.721	2803.115	3893.905	2867.391
4865.811	2803.115	3892.196	2867.391
4865.901	2803.115	3890.487	2867.391
4866.001	2803.115	3888.778	2867.391
4866.091	2803.115	3887.069	2867.391
4866.181	2803.115	3885.360	2867.391
4866.271	2803.115	3883.651	2867.391
4866.361	2803.115	3881.942	2867.391
4866.451	2803.115	3880.233	2867.391
4866.541	2803.115	3878.524	2867.391
4866.631	2803.115	3876.815	2867.391
4866.721	2803.115	3875.106	2867.391
4866.811	2803.115	3873.397	2867.391
4866.901	2803.115	3871.688	2867.391
4867.001	2803.115	3869.979	2867.391
4867.091	2803.115	3868.270	2867.391
4867.181	2803.115	3866.561	2867.391
4867.271	2803.115	3864.852	2867.391
4867.361	2803.115	3863.143	2867.391
4867.451	2803.115	3861.434	2867.391
4867.541	2803.115	3859.725	2867.391
4867.631	2803.115	3858.016	2867.391
4867.721	2803.115	3856.307	2867.391
4867.811	2803.115	3854.598	2867.391
4867.901	2803.115	3852.889	2867.391
4868.001	2803.115	3851.180	2867.391
4868.091	2803.115	3849.471	2867.391
4868.181	2803.115	3847.762	2867.391
4868.271	2803.115	3846.053	2867.391
4868.361	2803.115	3844.344	2867.391
4868.451	2803.115	3842.635	2867.391
4868.541	2803.115	3840.926	2867.391
4868.631	2803.115	3839.217	2867.391
4868.721	2803.115	3837.508	2867.391
4868.811	2803.115	3835.799	2867.391
4868.901	2803.115	3834.090	2867.391
4869.001	2803.115	3832.381	

8.4

## OFF-LINE PLOT

J.E.T. STEP 0.4 8/15/84

FILE # 2

RUN # 2

DATE 8/15/84

TIME @ START OF RUN 4:47:47.10

BEGINNING AT 235.00 SECS. FROM START OF RUN

10.000SEC./GRID LINE

CHAN# 214  
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.

235.00

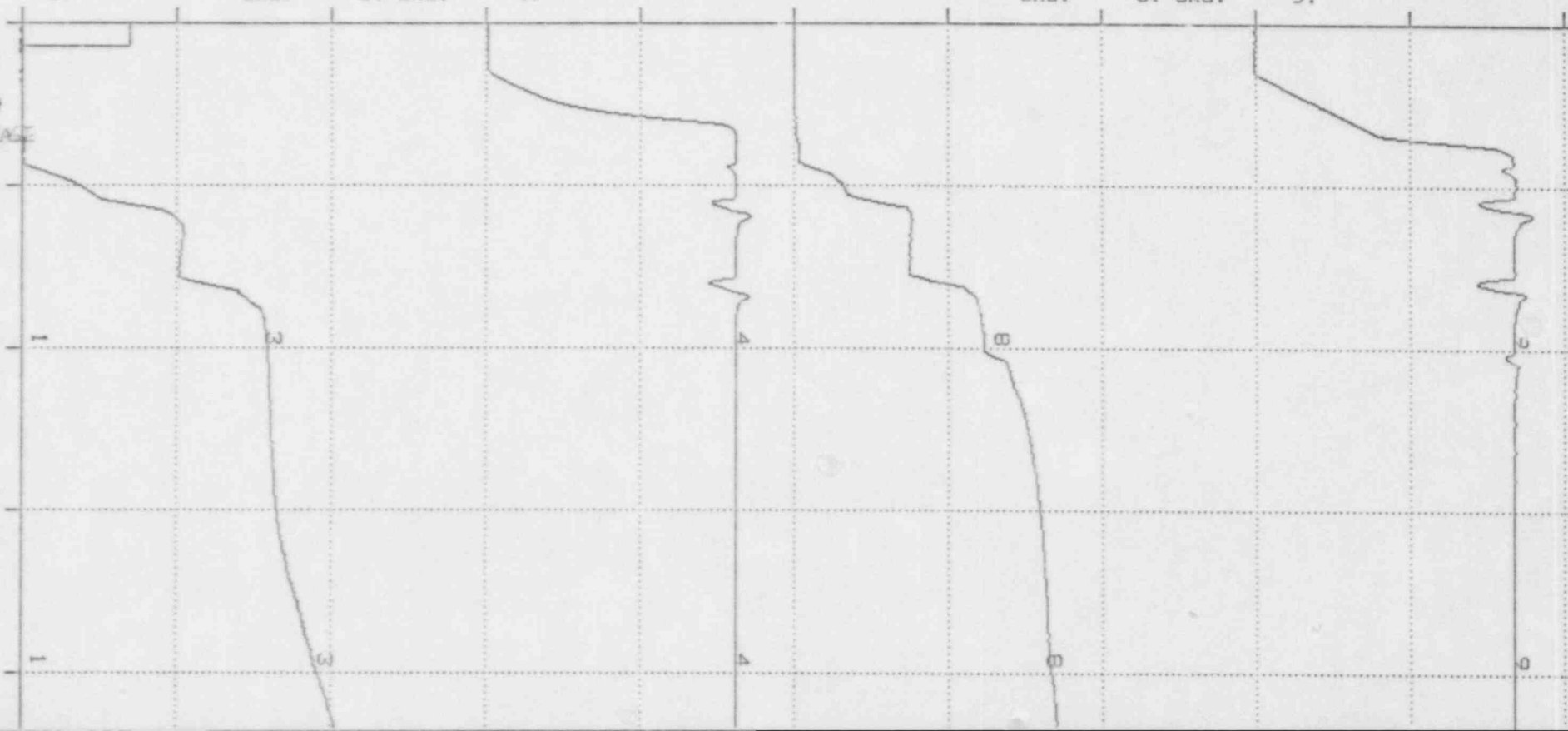
245.00

255.00

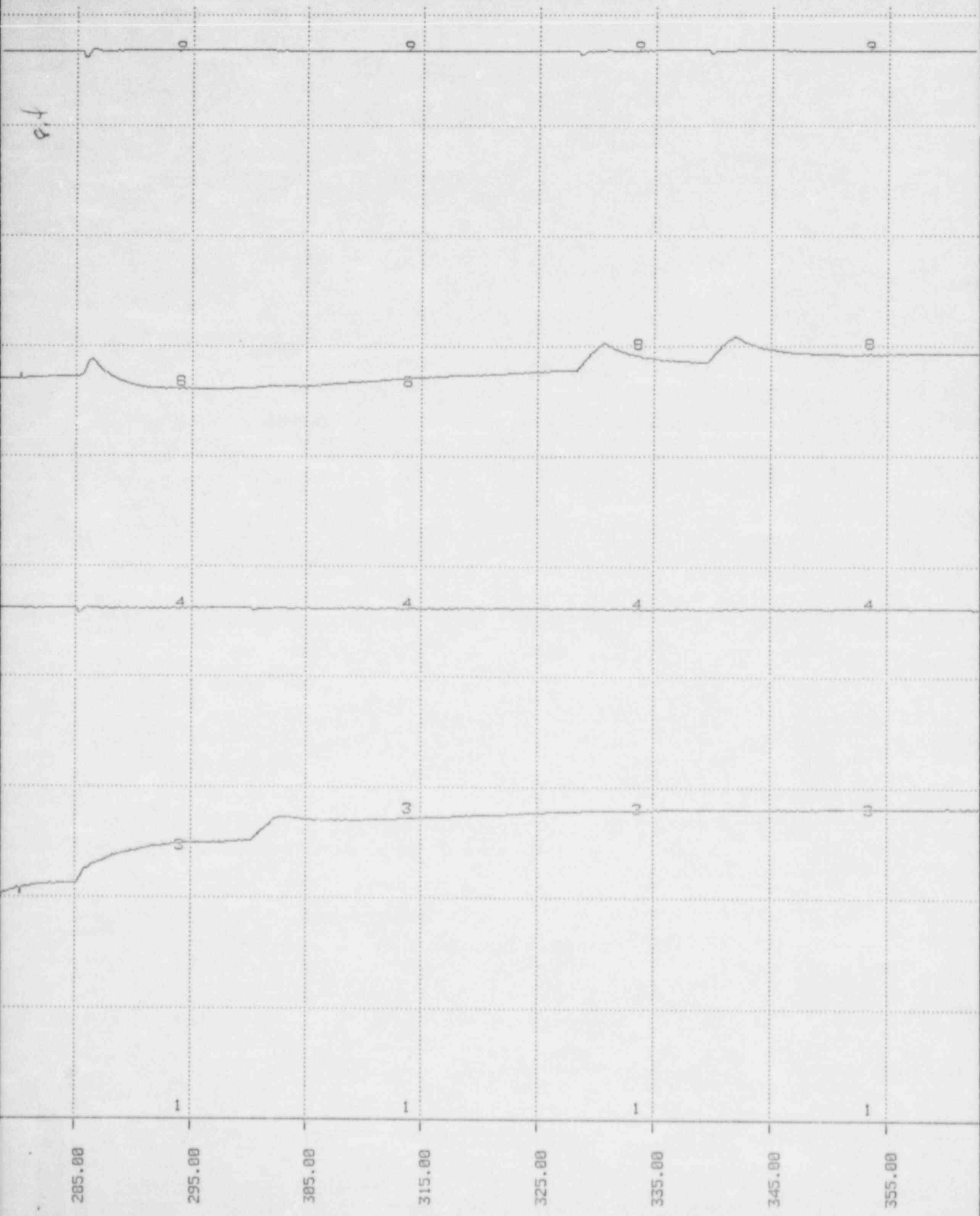
265.00

275.00

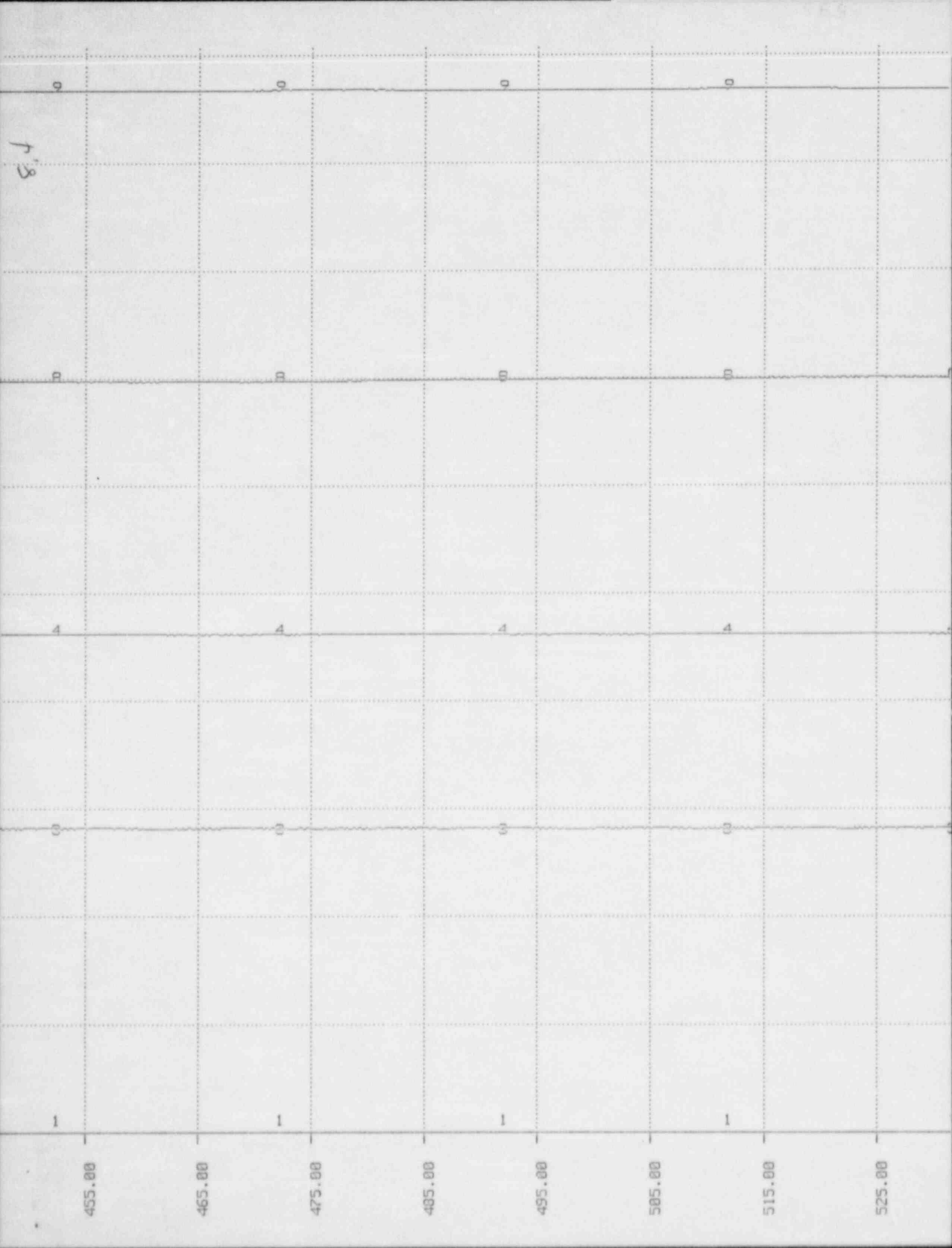
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START AVERAGE  
ROUTINE

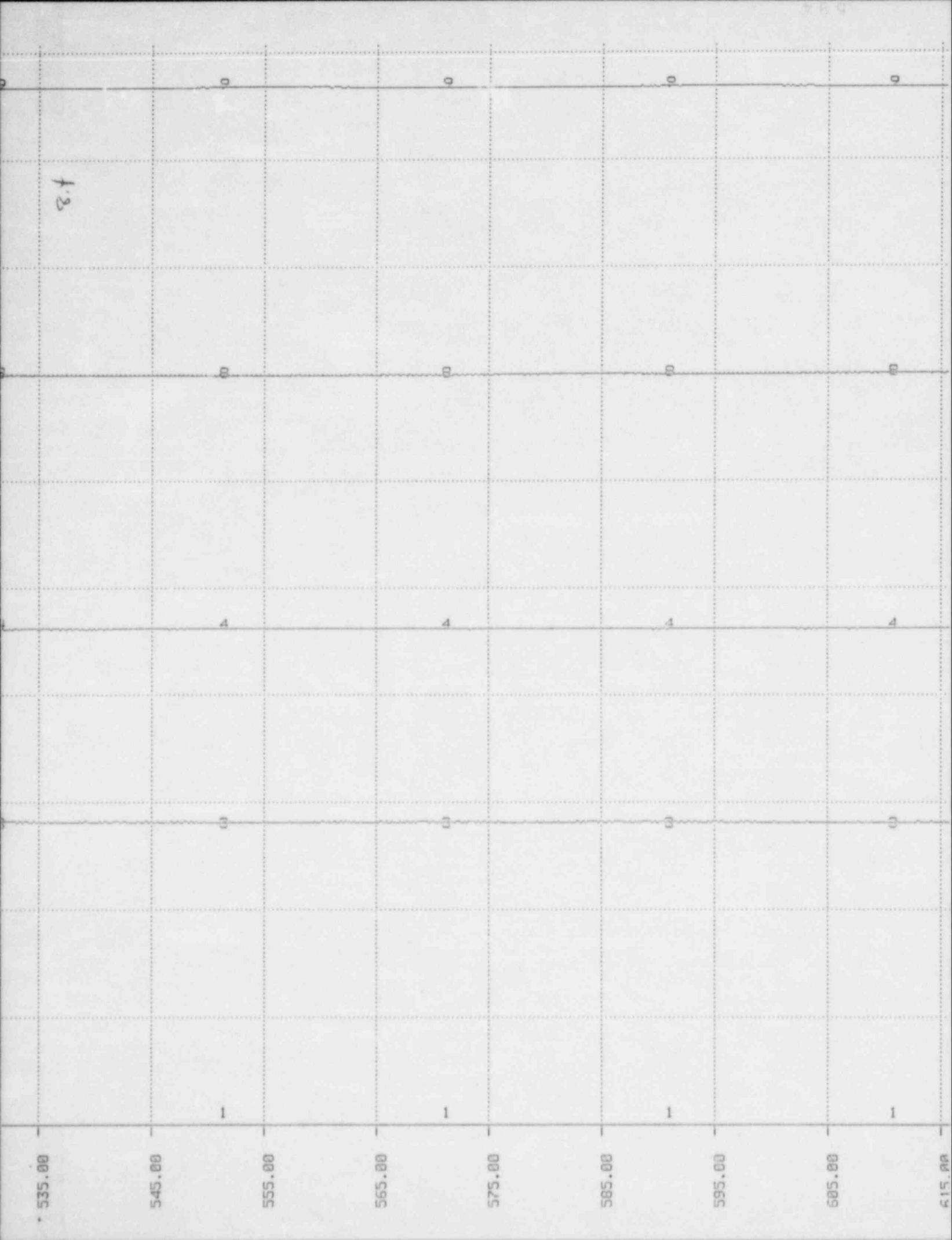












8.4

625.00

635.00

645.00

655.00

665.00

675.00

685.00

695.00

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725.00

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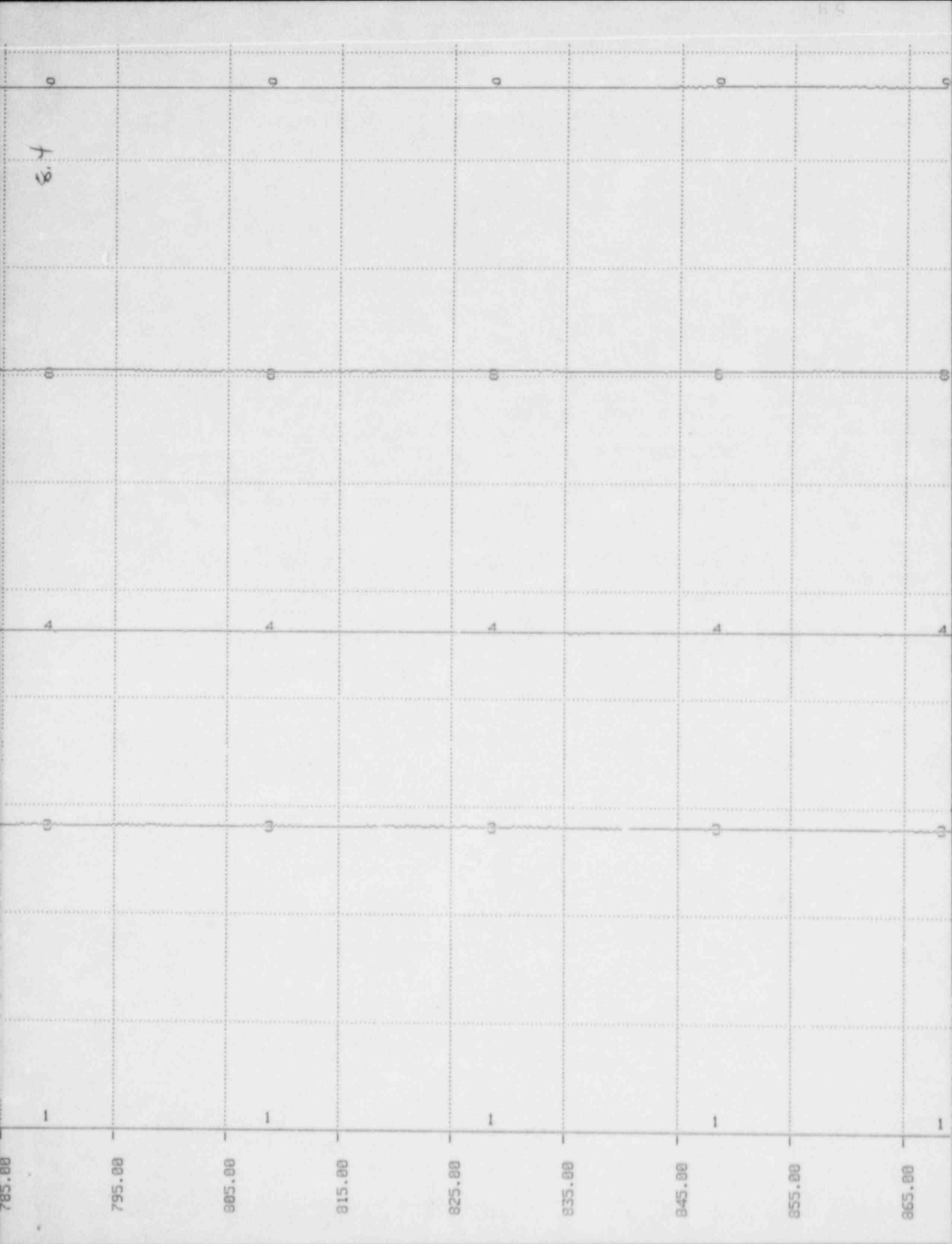
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8.4

875.00

885.00

895.00

905.00

915.00

925.00

935.00

945.00

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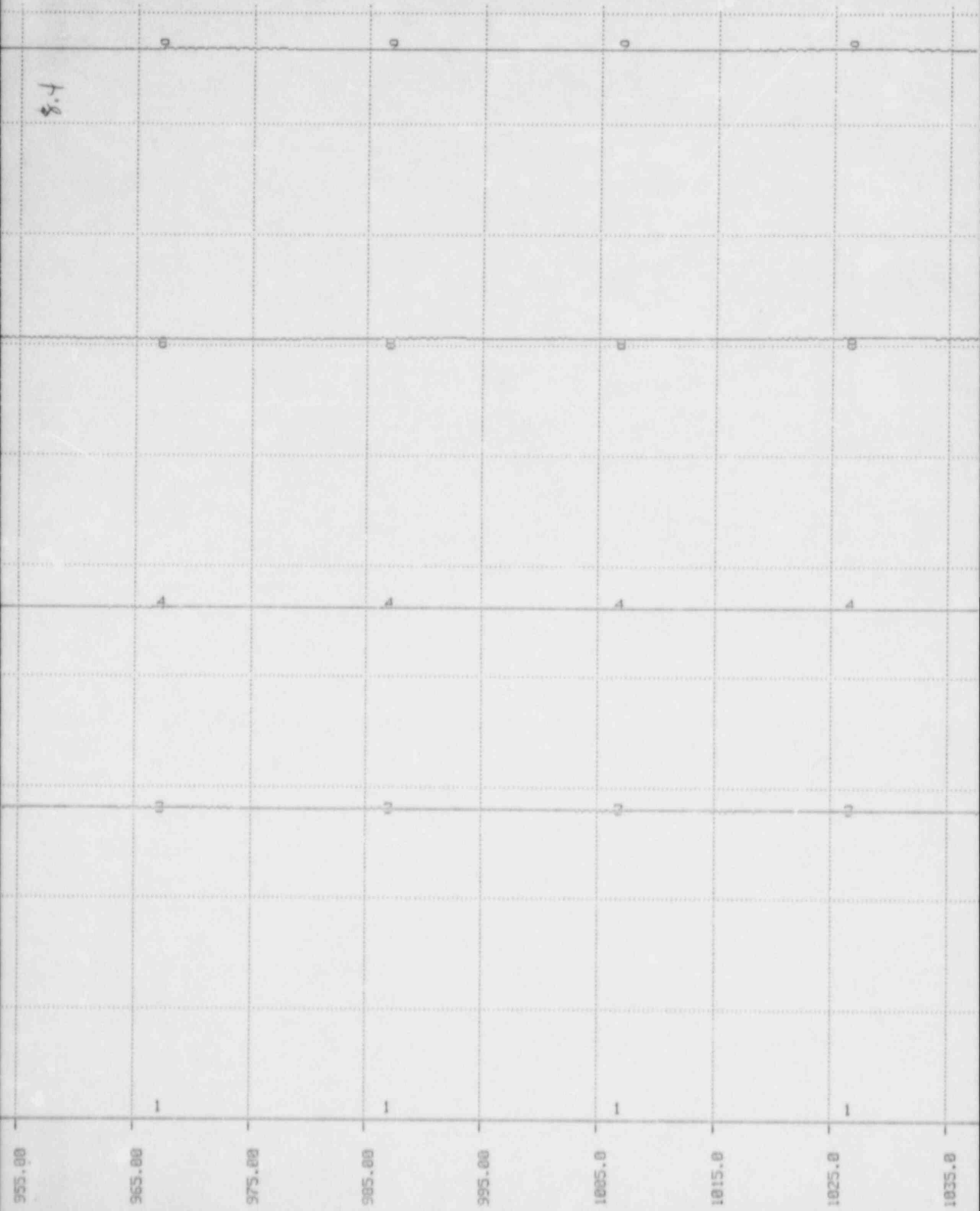
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START DIGITAL  
PRINTOUT  
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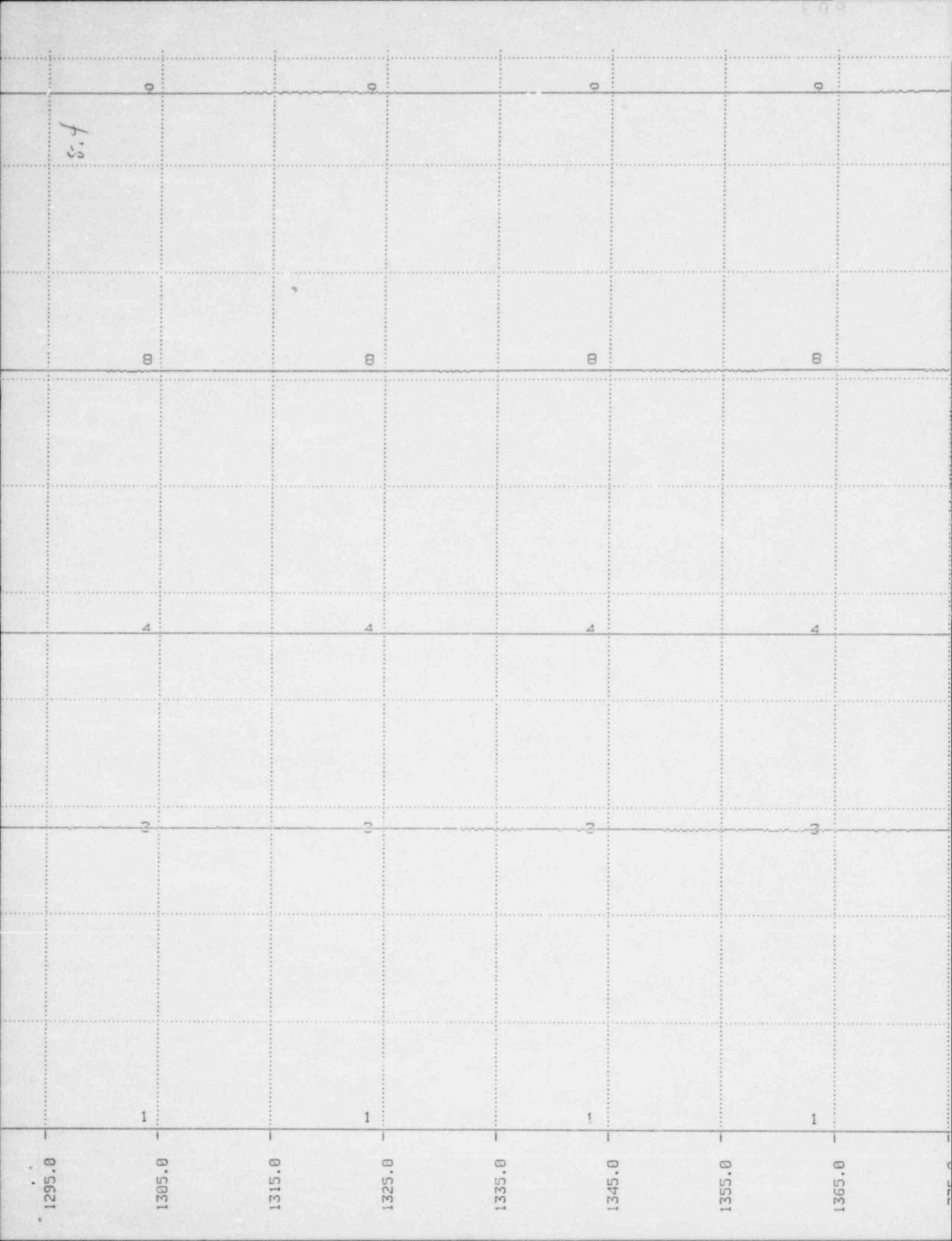
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STOP DIGITAL

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1405.0

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1425.0

\*  
STOP AVERAGE  
ROUTINE

1

1

1

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I.E.T. STEP 8.5 8/17/64

FILE 8999

RUN # 2

DATE 8/17/64

TIME W START OF RUN 20:33:53.10

BEGINNING AT 20.00 SECS FROM START OF RUN

CHRON# 210 CHRON# 213

05103VLT 05103KW

VRC

RELATIVE TIME

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RELATIVE TIME

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4210.150 2268.396

RELATIVE TIME

4210.150 2268.107  
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4210.150 2268.396

RELATIVE TIME

4210.150 2268.107  
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4210.150 2268.107  
4210.150 2268.107

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RELATIVE TIME	0	3	933
4109.326	2266.107		
4109.732	2266.107		
4109.444	2266.107		
4107.853	2266.344		
4102.475	2269.168		
4104.948	2269.396		
4102.413	2269.168		
4100.562	2263.654		
4103.271	2266.107		
4104.271	2266.344		
4109.579	2266.396		
RELATIVE TIME	0	5	0
4107.953	2268.396		
4100.096	2266.107		
4100.579	2266.167		
4107.697	2266.344		
4104.979	2269.168		
4109.579	2272.312		
4106.143	2271.449		
4106.144	2268.396		
4108.502	2266.344		
4105.271	2266.107		
RELATIVE TIME	0	6	0
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4109.579	2269.168		
4102.439	2268.168		
4102.034	2266.107		
4107.219	2266.344		
4105.562	2269.168		
4105.562	2268.396		
4107.279	2269.168		
4102.697	2266.107		
4106.144	2266.344		
RELATIVE TIME	0	7	0
4105.529	2266.107		
4105.562	2266.344		
4101.061	2269.168		
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4109.579	2269.168		
4104.152	2266.344		
4107.439	2268.396		
4109.579	2269.168		
4101.851	2269.168		
RELATIVE TIME	0	8	0
4109.729	2269.168		
4104.167	2268.344		
4101.851	2266.107		
4106.044	2266.168		
4102.439	2268.168		
4107.439	2268.396		
4102.439	2268.168		
4109.729	2266.107		



85

RELATIVE TIME	271.449	0
RELATIVE TIME	274.124	0
RELATIVE TIME	275.879	0
RELATIVE TIME	278.043	0
RELATIVE TIME	281.241	0
RELATIVE TIME	282.753	0
RELATIVE TIME	284.664	0
RELATIVE TIME	285.639	0
RELATIVE TIME	286.849	0
RELATIVE TIME	287.545	0
RELATIVE TIME	288.113	0
RELATIVE TIME	291.971	0
RELATIVE TIME	294.652	0
RELATIVE TIME	297.872	0
RELATIVE TIME	301.037	0
RELATIVE TIME	302.903	0
RELATIVE TIME	305.814	0
RELATIVE TIME	308.189	0
RELATIVE TIME	311.863	0
RELATIVE TIME	315.776	0
RELATIVE TIME	319.643	0
RELATIVE TIME	323.758	0
RELATIVE TIME	327.693	0
RELATIVE TIME	331.251	0
RELATIVE TIME	335.814	0
RELATIVE TIME	340.139	0
RELATIVE TIME	344.561	0
RELATIVE TIME	348.146	0
RELATIVE TIME	352.923	0
RELATIVE TIME	357.697	0
RELATIVE TIME	361.645	0
RELATIVE TIME	365.552	0
RELATIVE TIME	369.723	0
RELATIVE TIME	374.563	0
RELATIVE TIME	379.084	0
RELATIVE TIME	383.984	0
RELATIVE TIME	389.420	0
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RELATIVE TIME	0	15	0
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8.5

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 1969.746

8.5

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4996.662  
4997.797  
4998.932  
4999.067  
5000.192

RELATIVE TIME

RELATIVE TIME

RELATIVE TIME

RELATIVE TIME

RELATIVE TIME

50

50

50

50

50

34

34

34

34

34

0

0

0

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34

34

34

34

34

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0



8.5

4175.397 1993.438  
4103.271 1913.351  
4172.606 1044.722  
4184.920 1957.918  
4179.188 1936.932  
4178.680 1981.453  
4103.986 1940.591  
4178.626 1897.486  
4103.582 2005.655

RELATIVE TIME

23 799

4185.962 2612.726  
4170.690 2021.583  
4179.668 2031.043  
4100.486 2049.431  
4110.486 2045.305  
4167.279 2054.792  
4164.979 2061.569  
4167.553 2073.917  
4186.444 2082.175  
4203.856 2076.635

RELATIVE TIME

44 999

4271.646 2679.726  
4218.664 2053.656  
4212.491 2056.116  
4201.626 2071.647  
4203.317 2040.593  
4201.829 2042.789  
4197.435 2031.041  
4197.817 2034.172  
4197.893 2021.603  
4197.833 2018.866

RELATIVE TIME

44 999

4187.053 2015.616  
4191.061 2009.071  
4190.752 2011.516  
4194.152 1976.162  
4194.192 1991.734  
4194.152 1980.302  
4201.383 1988.782  
4201.593 1983.196  
4201.826 1975.898  
4196.444 1972.274

RELATIVE TIME

44 999

4197.617 1979.274  
4203.608 1943.905  
4207.029 1952.222  
4216.190 1962.573  
4216.763 1967.174  
4203.069 1974.721  
4216.190 1951.648  
4203.038 1958.945  
4212.491 1948.563

RELATIVE TIME

47 999



2.5

8.5

RELATIVE TIME	0	52	999
4107.853	1895.954		
4184.988	1892.663		
4125.562	1893.651		
4198.144	1899.040		
4182.887	1899.849		
4182.979	1898.612		
4183.271	1897.663		
4199.144	1892.582		
4198.144	1898.612		
4197.273	1895.296		
RELATIVE TIME	0	53	999
4185.562	1896.793		
4188.496	1897.589		
4187.052	1896.612		
4185.582	1896.796		
4191.861	1897.659		
4185.582	1893.243		
4185.582	1892.743		
4186.144	1897.989		
4185.582	1897.579		
4187.853	1897.989		
RELATIVE TIME	0	54	999
4192.085	1894.596		
4187.273	1893.742		
4183.343	1894.586		
4194.152	1894.596		
4186.444	1897.959		
4191.861	1896.796		
4192.398	1897.743		
4192.425	1891.454		
4197.817	1894.586		
4198.144	1894.586		
RELATIVE TIME	0	55	999
4197.817	1897.959		
4198.589	1897.959		
4194.726	1897.743		
4193.385	1894.586		
4201.825	1894.586		
4201.589	1897.959		
4199.208	1897.559		
4205.181	1896.796		
4206.101	1893.743		
4199.208	1891.454		
RELATIVE TIME	0	56	999
4203.317	1893.743		
4203.350	1897.796		
4201.589	1894.586		
4203.317	1894.586		
4203.988	1891.454		
4203.600	1891.454		
4203.890	1893.743		
4216.150	1897.959		
4206.101	1894.586		

8.5

RELATIVE TIME	1993.743	57	593
4213.054	1993.743		
4206.181	1993.743		
4203.096	1993.743		
4218.190	1993.743		
4210.783	1993.743		
4206.472	1993.743		
4218.190	1993.743		
4210.783	1993.743		
4206.472	1993.743		
4218.190	1993.743		
4210.783	1993.743		
4206.472	1993.743		
RELATIVE TIME	1993.743	58	593
4213.054	1993.743		
4206.181	1993.743		
4203.096	1993.743		
4218.190	1993.743		
4210.783	1993.743		
4206.472	1993.743		
4218.190	1993.743		
4210.783	1993.743		
4206.472	1993.743		
RELATIVE TIME	1993.743	59	593
4213.054	1993.743		
4206.181	1993.743		
4203.096	1993.743		
4218.190	1993.743		
4210.783	1993.743		
4206.472	1993.743		
4218.190	1993.743		
4210.783	1993.743		
4206.472	1993.743		

I.E.T. STEP 3.5 8/17/84

FILE #9999

RUN # 2

DATE 8/17/84

TYPE # START IF RUN 28:37:50: 10

BEGINNING AT 120.00 SECS. FROM START OF RUN

CHAN# 205 CHAN# 207

DE102VLT DE102KW

VAR

KU

RELATIVE TIME . . . 0

4119.587 2913.502  
4119.587 2919.583  
4121.789 2916.794  
4121.789 2912.501  
4119.587 2913.744  
4120.877 2913.741  
4120.877 2918.832  
4120.836 2913.784  
4120.836 2910.694

RELATIVE TIME . . . 0

4126.354 2907.644  
4121.783 2907.644  
4128.877 2907.644  
4119.587 2910.694  
4121.789 2907.644  
4124.842 2907.644  
4126.924 2903.831  
4119.587 2905.881  
4128.877 2907.644  
4126.924 2906.031

RELATIVE TIME . . . 0

4122.739 2906.981  
4122.339 2904.583  
4128.877 2901.543  
4119.587 2903.831  
4119.587 2907.644  
4121.789 2905.911  
4129.286 2907.644  
4124.842 2906.801  
4128.836 2906.881  
4126.924 2907.644

RELATIVE TIME . . . 0

4119.587 2910.694  
4120.877 2912.981  
4126.924 2909.931  
4122.359 2918.694  
4128.836 2909.951  
4126.934 2909.931  
4126.354 2912.981  
4122.999 2915.794  
4122.359 2916.832

8.5

8.5

RELATIVE TIME	2913.744	0	3	999
4126.924	2913.744			
4126.924	2913.744			
4119.587	2916.832			
4124.671	2916.794			
4126.924	2916.794			
4129.286	2916.794			
4129.286	2916.832			
4126.924	2916.794			
4126.354	2919.845			
4126.354	2919.802			
4126.924	2919.882			
RELATIVE TIME	2919.882	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			
4122.359	2919.845			
4124.671	2919.845			
4126.354	2916.794			
4120.877	2919.882			
RELATIVE TIME	2919.882	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	2912.744			
4126.924	2916.794			
4126.324	2912.581			
4126.354	2919.694			
4119.587	2916.694			
RELATIVE TIME	2916.694	0	7	8
4117.793	2918.694			
4124.642	2918.694			
4121.789	2918.694			
4126.524	2909.931			
4129.286	2907.644			
4122.359	2904.593			
4121.789	2906.091			
4119.587	2903.681			
4119.587	2907.644			
4122.359	2906.881			
RELATIVE TIME	2906.881	0	8	9
4128.636	2904.593			
4126.924	2901.543			
4126.354	2904.593			
4119.587	2907.644			
4122.359	2907.644			
4129.286	2904.593			
4120.636	2903.831			
4126.354	2904.593			

8.5

4126.354	2907.644	0	0	0
4126.877	2906.881	0	0	0
RELATIVE TIME				
4126.354	2907.644			
4124.642	2909.931			
4128.036	2904.503			
4126.924	2906.881			
4126.324	2907.644			
4105.507	2913.744			
4126.354	2912.981			
4128.636	2912.981			
4126.354	2912.981			
4129.077	2913.744			
RELATIVE TIME				
4126.354	2913.744			
4126.334	2916.794			
4126.354	2916.794			
4122.359	2919.082			
4126.924	2916.794			
4128.077	2916.794			
4120.877	2922.132			
4124.642	2922.895			
4121.789	2922.132			
4121.789	2919.945			
RELATIVE TIME				
4123.359	2919.082			
4126.924	2919.945			
4128.077	2922.132			
4128.077	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				
4129.286	2922.895			
4128.636	2919.045			
4126.924	2919.845			
4128.077	2915.082			
4124.642	2922.132			
4126.354	2922.895			
4124.871	2919.832			
4128.636	2916.794			
4126.924	2916.032			
4128.077	2919.945			
RELATIVE TIME				
4126.354	2916.794			
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  
 4121.705 2916.794  
 4129.286 2910.694  
 RELATIVE TIME  
 4126.924 2909.931  
 4126.354 2910.634  
 4124.642 2910.694  
 4122.359 2913.744  
 4120.636 2910.694  
 4128.686 2907.644  
 4120.354 2907.644  
 4124.642 2910.694  
 4126.354 2910.694  
 4122.359 2913.744

RELATIVE TIME  
 4120.636 2909.931  
 4129.286 2909.931  
 4126.924 2907.644  
 4121.705 2909.931  
 4120.636 2913.744  
 4120.677 2912.981  
 4121.705 2913.744  
 4126.924 2913.744  
 4120.636 2913.744  
 4126.924 2916.032

RELATIVE TIME  
 4119.587 2919.845  
 4122.359 2919.845  
 4124.671 2919.842  
 4127.359 2919.882  
 4126.324 2916.794  
 4124.642 2922.896  
 4126.924 2922.896  
 4128.636 2925.183  
 4124.671 2925.183  
 4121.705 2922.132

RELATIVE TIME  
 4126.354 2925.183  
 4126.924 2925.183  
 4122.359 2920.235  
 4121.705 2920.996  
 4126.324 2925.945  
 4120.677 2925.945  
 4119.587 2928.996  
 4120.677 2928.996  
 4121.705 2928.996  
 4120.636 2928.233

RELATIVE TIME  
 4124.642 2925.183  
 4122.359 2925.183  
 4121.705 2925.945  
 4119.587 2925.333  
 4120.677 2920.996  
 4126.354 2925.945

8.5

4122.359	2925.103	0	13	939
4121.789	2922.132			
4120.877	2925.945			
4120.877	2925.183			
RELATIVE TIME	0			
4124.871	2919.045			
4129.206	2919.802			
4120.536	2918.794			
4121.789	2918.832			
4119.507	2919.845			
4122.359	2913.744			
4125.924	2916.832			
4124.871	2916.794			
4125.924	2913.744			
4125.924	2916.794			
RELATIVE TIME	0			
4122.359	2916.832			
4120.877	2916.832			
4122.359	2913.744			
4120.536	2920.931			
4120.536	2918.694			
4125.924	2912.981			
4125.924	2909.931			
4120.877	2916.794			
4120.536	2916.832			
4120.536	2912.981			
4120.536	2918.694			
4120.536	2912.981			
4125.924	2916.832			
4125.924	2916.832			
RELATIVE TIME	0			
4120.536	2916.794			
4122.359	2919.845			
4125.924	2912.981			
4124.871	2916.794			
4125.924	2918.845			
4121.789	2919.845			
4129.206	2919.882			
4124.871	2919.845			
4125.924	2916.832			
4125.924	2919.845			
RELATIVE TIME	0			
4121.789	2922.895			
4119.507	2922.895			
4125.924	2922.132			
4122.359	2919.845			
4125.924	2913.744			



8.5

4121.789	2922.132	0	23	993
4121.789	2925.183			
4125.924	2925.183			
4123.266	2922.885			
4128.636	2919.645			
RELATIVE TIME	...	0		
4126.354	2919.645			
4127.359	2919.682			
4117.795	2922.132			
4122.359	2922.895			
4124.642	2922.895			
4124.642	2919.845			
4122.359	2916.794			
4126.924	2919.682			
4126.354	2919.645			
4122.359	2919.682			
RELATIVE TIME	...	0	24	993
4122.359	2916.794			
4126.924	2913.744			
4126.354	2912.961			
4126.924	2916.632			
4126.924	2916.032			
4121.789	2916.794			
4121.871	2913.744			
4129.266	2918.694			
4122.359	2909.931			
4119.587	2918.694			
RELATIVE TIME	...	0	25	993
4126.877	2912.901			
4126.924	2918.694			
4124.642	2907.644			
4125.266	2906.601			
4126.924	2904.553			
4126.924	2987.644			
4126.924	2987.644			
4126.354	2907.644			
4120.636	2907.644			
4125.924	2904.593			
RELATIVE TIME	...	0	25	993
4119.587	2904.593			
4127.359	2907.644			
4126.924	2906.881			
4122.359	2906.881			
4129.266	2906.881			
4121.789	2904.593			
4121.789	2906.881			
4126.877	2909.931			
4126.924	2918.694			
4126.877	2916.694			
RELATIVE TIME	...	0	27	993
4122.359	2909.931			
4122.359	2918.694			
4121.789	2912.581			
4126.354	2913.744			

8.5

4126.924	2916.794			
4124.871	2916.832			
4128.286	2913.744			
4122.359	2913.744			
4120.877	2915.754			
4119.367	2919.845			
RELATIVE TIME	8	29	999	
4122.359	2922.132			
4121.785	2919.845			
4124.871	2919.832			
4121.789	2919.845			
4123.877	2922.132			
4120.877	2922.095			
4126.924	2922.898			
4126.924	2922.132			
4122.359	2914.843			
4121.789	2922.895			
RELATIVE TIME	8	9	999	
4126.924	2922.132			
4126.924	2925.183			
4124.871	2925.183			
4128.286	2919.845			
4123.877	2919.845			
4126.924	2919.845			
4124.871	2922.095			
4120.877	2922.132			
4126.924	2922.132			
4129.286	2919.832			
RELATIVE TIME	8	39	999	
4122.359	2916.794			
4120.924	2916.832			
4126.924	2916.794			
4126.924	2919.845			
4122.359	2919.845			
4122.359	2916.794			
4122.359	2916.832			
4126.924	2913.744			
4124.871	2916.794			
4126.924	2916.832			
RELATIVE TIME	8	71	999	
4120.836	2913.744			
4124.871	2912.981			
4129.359	2912.981			
4126.924	2909.931			
4124.871	2912.981			
4121.789	2912.981			
4126.924	2916.634			
4121.789	2916.634			
4126.924	2909.931			
4129.877	2910.694			
RELATIVE TIME	8	32	999	
4122.359	2913.744			
4126.924	2912.981			
4126.924	2912.981			

85

4126.924 2989.931  
4121.729 2989.931  
4120.677 2912.581  
4124.642 2913.744  
4124.871 2915.032  
4126.924 2912.581  
4126.535 2916.694

RELATIVE TIME

8 33 35.9

4126.354 2913.744  
4126.677 2916.792  
4124.642 2916.794  
4126.354 2919.043  
4124.671 2919.562  
4126.636 2919.932  
4126.924 2919.645  
4124.671 2919.845  
4126.354 2922.899  
4126.524 2925.183

RELATIVE TIME

8 34 35.9

4129.285 2922.695  
4122.359 2925.103  
4121.709 2925.103  
4126.924 2925.193  
4120.677 2928.936  
4128.877 2928.936  
4121.729 2930.836  
4126.924 2945.545  
4120.677 2925.945  
4126.354 2928.996

RELATIVE TIME

8 35 35.9

4126.354 2931.284  
4126.354 2932.846  
4120.636 2928.233  
4122.359 2928.233  
4121.729 2928.233  
4118.507 2931.284  
4126.354 2931.704  
4129.636 2931.284  
4126.636 2925.945  
4122.359 2928.996

RELATIVE TIME

8 36 35.9

4120.677 2928.233  
4126.924 2925.945  
4126.924 2928.996  
4128.636 2928.233  
4126.924 2928.132  
4120.677 2922.132  
4129.677 2922.132  
4120.677 2925.183  
4120.677 2922.057  
4122.359 2922.132

RELATIVE TIME

8 37 35.9

4129.285 2946.734  
4122.359 2916.734

8.5

4126.924 2913.744  
4119.897 2919.082  
4115.587 2919.045  
4126.754 2916.794  
4124.871 2916.794  
4126.924 2912.901  
4128.874 2918.744  
4122.719 2916.832

RELATIVE TIME

0 33 999

4126.754 2916.832  
4124.871 2916.794  
4122.759 2913.744  
4126.924 2919.694  
4119.587 2912.901  
4124.642 2913.744  
4126.754 2916.794  
4121.789 2916.794  
4129.286 2913.744  
4126.354 2916.694

RELATIVE TIME

0 33 999

4126.354 2913.744  
4124.642 2916.794  
4126.354 2916.794  
4126.354 2913.744  
4122.359 2913.744  
4126.354 2916.832  
4119.587 2916.794  
4126.354 2915.845  
4129.636 2919.845  
4129.286 2916.744

RELATIVE TIME

0 40 999

4122.359 2916.794  
4124.677 2919.082  
4124.671 2919.045  
4119.587 2919.045  
4126.354 2916.36  
4129.286 2919.045  
4121.789 2919.845  
4121.789 2919.045  
4126.924 2922.132

RELATIVE TIME

0 41 999

4121.789 2925.103  
4129.286 2922.095  
4121.789 2919.845  
4119.587 2922.132  
4128.877 2922.095  
4121.789 2922.095  
4129.286 2922.132  
4124.671 2922.132  
4121.789 2919.045  
4124.871 2922.132

RELATIVE TIME

0 42 999

4121.789 2922.132

8.

8.5

4120.636	2922.132	0	40	999
4122.359	2922.132			
4129.266	2919.882			
4126.636	2919.845			
4121.789	2925.183			
4124.871	2925.183			
4122.359	2922.132			
4122.359	2922.132			
4126.924	2919.845			
4126.554	2925.945			
RELATIVE TIME	0			
4122.359	2927.895			
4122.359	2925.183			
4124.642	2922.132			
4126.354	2925.183			
4122.359	2919.845			
4126.354	2919.882			
4126.134	2922.132			
4122.359	2922.132			
4129.266	2919.845			
4122.359	2916.632			
RELATIVE TIME	0			
4114.587	2919.845			
4126.924	2915.082			
4122.359	2919.882			
4129.266	2916.794			
4126.636	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	2919.684			
4126.924	2909.931			
4121.789	2919.684			
4126.636	2987.644			
4126.266	2906.681			
4126.924	2904.593			
4120.077	2907.644			
4126.924	2916.684			
RELATIVE TIME	0			
4122.359	2969.931			
4124.642	2967.644			
4129.266	2986.681			
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	52	999
4120.677	2916.794		
4121.709	2916.794		
4126.354	2916.794		
4122.359	2916.794		
4122.359	2916.794		
4126.354	2916.794		
4120.677	2922.895		
4126.354	2922.132		
4120.286	2922.132		
4128.910	2919.845		
RELATIVE TIME	0	52	999
4121.709	2922.132		
4126.354	2922.895		
4121.642	2922.895		
4126.524	2925.103		
4128.636	2922.895		
4122.359	2922.132		
4128.077	2919.845		
4126.524	2922.132		
4121.709	2925.345		
4120.636	2922.058		
RELATIVE TIME	0	54	999
4122.359	2922.895		
4126.524	2919.845		
4126.524	2919.892		
4129.285	2916.794		
4128.636	2916.832		
4119.587	2916.832		
RELATIVE TIME	0	55	999
4120.677	2916.794		
4126.524	2916.794		
4124.871	2912.981		
4126.524	2907.644		
4126.524	2909.931		
4124.542	2909.931		
4126.354	2918.694		
4121.709	2918.634		
4129.206	2904.593		
4126.524	2904.593		
RELATIVE TIME	0	56	999
4122.359	2903.831		
4126.524	2903.831		
4121.709	2906.001		
4122.359	2905.881		
4126.524	2903.831		
4121.709	2903.831		
4126.524	2901.545		
4126.354	2903.831		
4120.677	2907.644		

8.5

RELATIVE TIME	0	57	999
4122.355	2987.644		
4124.642	2983.831		
4123.265	2984.593		
4126.924	2981.543		
4120.877	2987.644		
4120.877	2987.644		
4121.769	2986.881		
4120.635	2984.593		
4122.355	2983.831		
4121.769	2985.081		
4120.877	2987.644		
RELATIVE TIME	0	58	999
4121.769	2918.694		
4123.265	2983.881		
4121.769	2987.644		
4122.355	2987.644		
4124.642	2986.081		
4119.587	2918.694		
4126.924	2918.694		
4124.642	2918.694		
4120.636	2987.644		
4122.355	2918.694		
RELATIVE TIME	0	59	999
4126.924	2918.694		
4120.877	2912.581		



8.5

# OFF-LINE PLOT

1.E.T. STEP 0.5 0/17/04

FILE # 2

RUN # 2

DATE 9/17/04

TIME @ START OF RUN 20:33:50:10

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

1

1

1

1

START DIGITAL  
PRINTOUT (03)

3

3

3

2

1

4

4

4

8

8

8

0

0

0

0

0

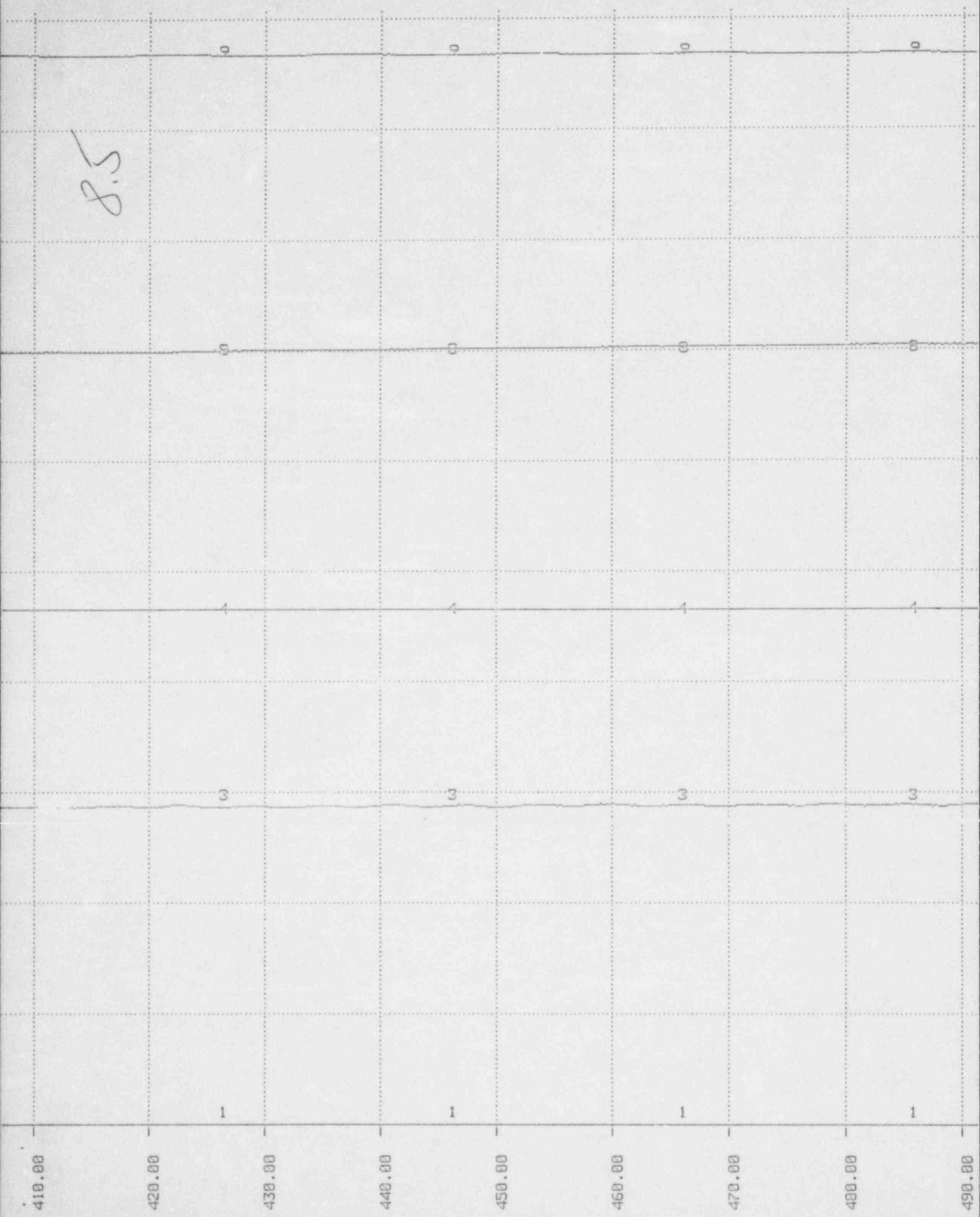
8.5



8.5



8.5



85

500.00

1

510.00

520.00

1

530.00

540.00

1

550.00

560.00

1

570.00

3

3

3

3

4

4

4

4

6

6

6

6

9

9

9

9



580.00

590.00

600.00

610.00

620.00

630.00

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4

4

4

4

0

0

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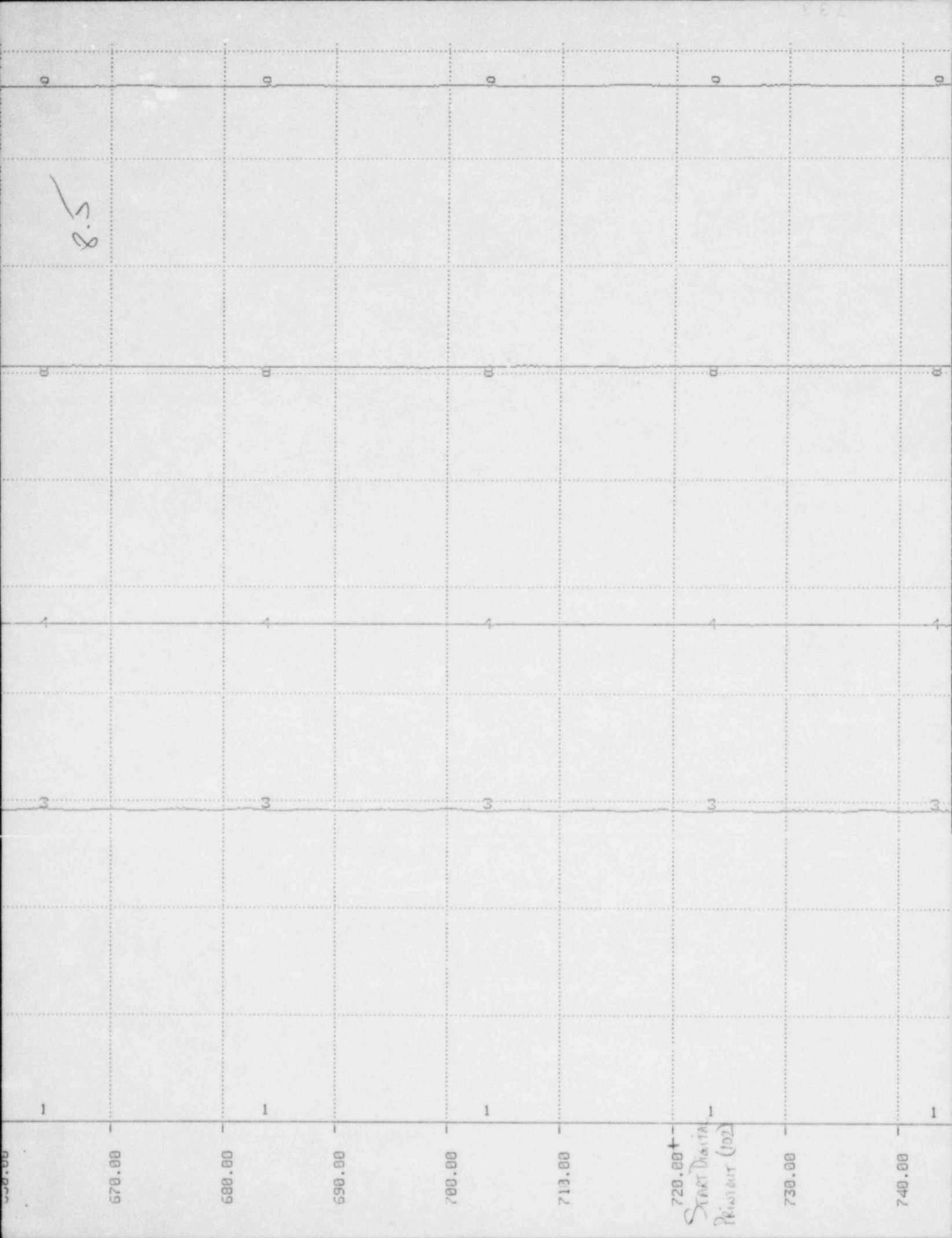
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0

0

0

8.5



8.5

650.00

670.00

680.00

690.00

700.00

710.00

720.00+

Start Digital  
Printer (102)

730.00

740.00

1

1

1

1

1

3

3

3

3

3

4

4

4

4

4

0

0

0

0

0



750.00

760.00

770.00

780.00+  
STOP INITIAL

790.00

800.00

810.00

820.00

1

1

1

1

3

3

3

3

4

4

4

4

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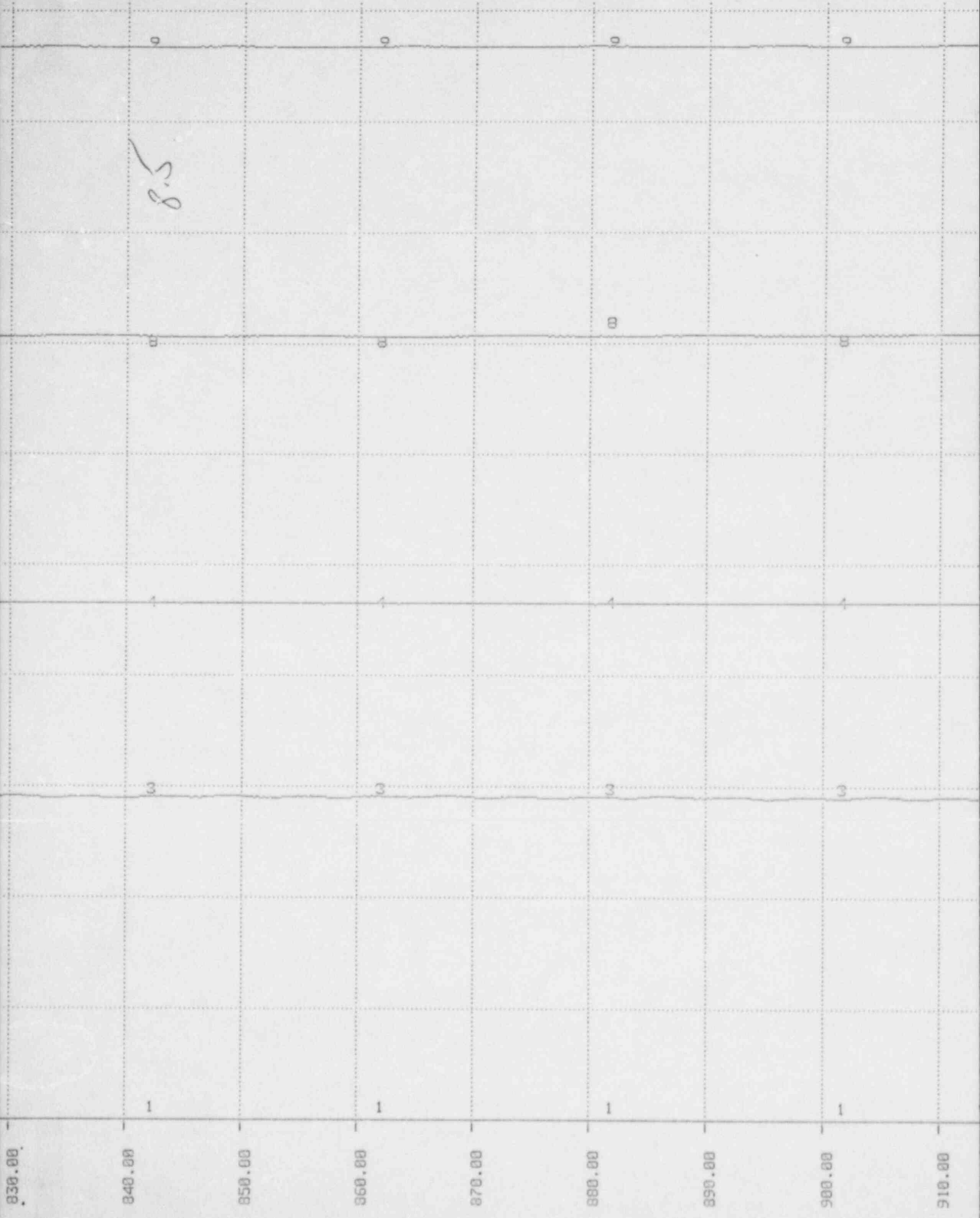
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0

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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

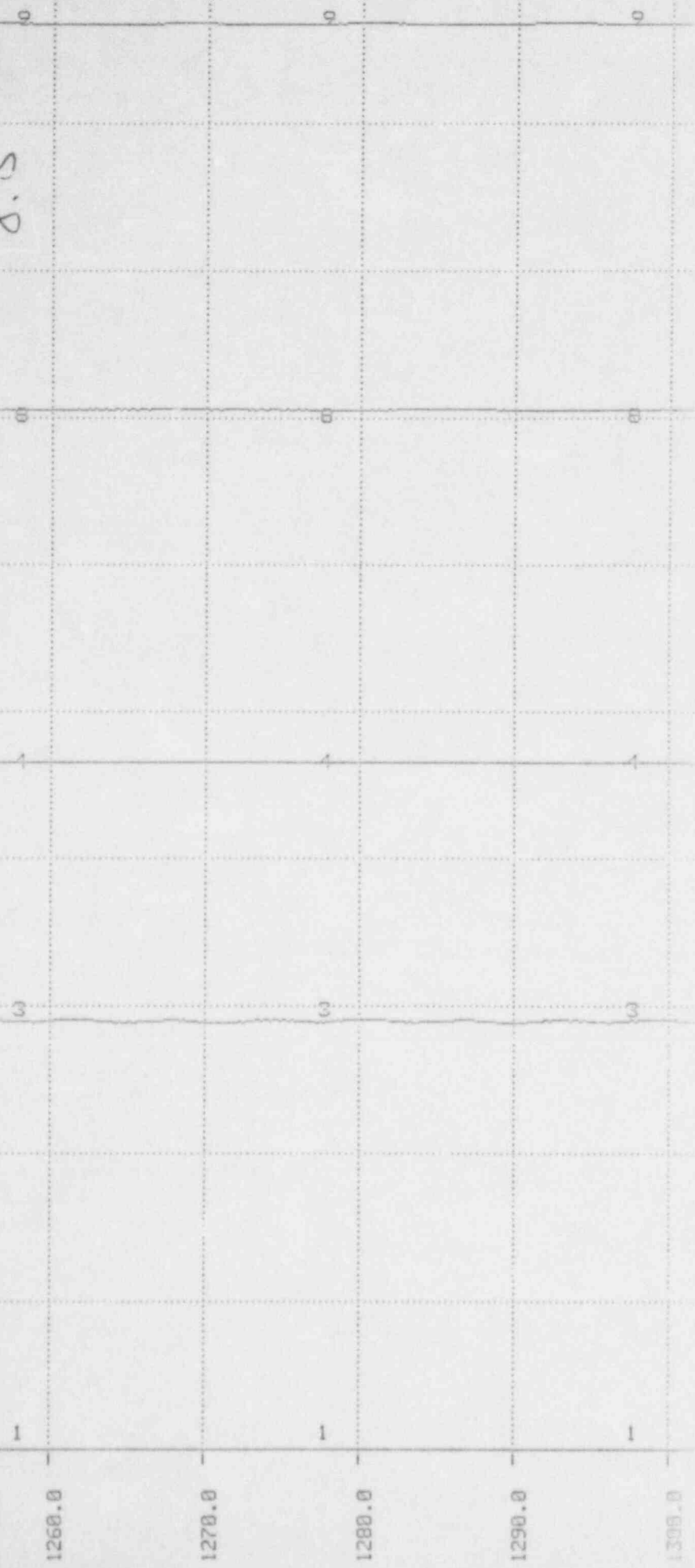
1150.0

1160.0

8.5

1170.0 1180.0 1190.0 1200.0 1210.0 1220.0 1230.0 1240.0 1250.0

8.5



STOP AVERAGE  
ROUTINE