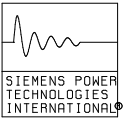


CHANNEL IDENTIFIER LIST

CHANEL	X-----	IDENTIFIER	-----X	CHANEL	X-----	IDENTIFIER	-----X
1	ANGL	BUS	334030	MACH	'1	'	
3	ANGL	BUS	334032	MACH	'1	'	
5	ANGL	BUS	334070	MACH	'1	'	
7	ANGL	BUS	334110	MACH	'SV	'	
9	ANGL	BUS	334244	MACH	'1	'	
11	ANGL	BUS	334298	MACH	'1	'	
13	ANGL	BUS	334335	MACH	'1	'	
15	ANGL	BUS	334375	MACH	'1	'	
17	ANGL	BUS	334377	MACH	'1	'	
19	ANGL	BUS	334381	MACH	'1	'	
21	ANGL	BUS	334383	MACH	'1	'	
23	ANGL	BUS	334393	MACH	'1	'	
25	ANGL	BUS	334431	MACH	'1	'	
27	ANGL	BUS	334433	MACH	'1	'	
29	ANGL	BUS	334441	MACH	'1	'	
31	ANGL		99181	[G1PID211		18.000]	
33	ANGL		99182	[G2PID211		18.000]	
35	ANGL		99183	[G3PID211		18.000]	
37	FREQ		334061	[4GOREE		138.00]	
39	FREQ		334063	[4EVGRN*		138.00]	
41	FREQ		334065	[4LACON		138.00]	
43	FREQ		334070	[G1LEWIS		22.000]	
45	FREQ		334072	[4LEWIS		138.00]	
47	FREQ		334074	[4PANORAM		138.00]	
49	FREQ		334076	[4CANNEYCK		138.00]	
51	FREQ		334078	[4SHEAWIL		138.00]	
53	FREQ		334080	[5L555T50		138.00]	
55	FREQ		334082	[4SECURTY		138.00]	
57	FREQ		334084	[4CLVELND		138.00]	
59	FREQ		334086	[6CONROE		230.00]	
61	FREQ		99181	[G1PID211		18.000]	
63	FREQ		99183	[G3PID211		18.000]	
65	VOLT		334051	[4BISHOP		138.00]	
67	VOLT		334053	[4CINCINT		138.00]	
69	VOLT		334055	[4RIVTRIN		138.00]	
71	VOLT		334057	[4HUNTSVL		138.00]	
73	VOLT		334059	[4WYNTEX		138.00]	
75	VOLT		334061	[4GOREE		138.00]	
77	VOLT		334063	[4EVGRN*		138.00]	
79	VOLT		334065	[4LACON		138.00]	
81	VOLT		334070	[G1LEWIS		22.000]	
83	VOLT		334072	[4LEWIS		138.00]	
85	VOLT		334074	[4PANORAM		138.00]	
87	VOLT		334076	[4CANNEYCK		138.00]	
89	VOLT		334078	[4SHEAWIL		138.00]	
91	VOLT		334080	[5L555T50		138.00]	
93	VOLT		334082	[4SECURTY		138.00]	
95	VOLT		334084	[4CLVELND		138.00]	
97	VOLT		334086	[6CONROE		230.00]	
99	VOLT		334091	[4GOSLIN		138.00]	
101	VOLT		334093	[4OAKRIDG		138.00]	
103	VOLT		334101	[4TAMINA		138.00]	
105	VOLT		334103	[4PLANTAT		138.00]	
107	VOLT		334105	[4WDHAVN		138.00]	
109	VOLT		334107	[5L523T58		138.00]	
111	VOLT		334109	[4DRYCRK		138.00]	
2	ANGL	BUS	334031	MACH	'1	'	
4	ANGL	BUS	334033	MACH	'1	'	
6	ANGL	BUS	334071	MACH	'1	'	
8	ANGL	BUS	334243	MACH	'1	'	
10	ANGL	BUS	334282	MACH	'1	'	
12	ANGL	BUS	334299	MACH	'1	'	
14	ANGL	BUS	334374	MACH	'1	'	
16	ANGL	BUS	334376	MACH	'1	'	
18	ANGL	BUS	334380	MACH	'1	'	
20	ANGL	BUS	334382	MACH	'1	'	
22	ANGL	BUS	334392	MACH	'1	'	
24	ANGL	BUS	334394	MACH	'1	'	
26	ANGL	BUS	334432	MACH	'1	'	
28	ANGL	BUS	334440	MACH	'1	'	
30	VOLT		99181	[G1PID211		18.000]	
32	VOLT		99182	[G2PID211		18.000]	
34	VOLT		99183	[G3PID211		18.000]	
36	FREQ		334060	[4MT.ZION		138.00]	
38	FREQ		334062	[4TEMCO		138.00]	
40	FREQ		334064	[8LNG 413		138.00]	
42	FREQ		334066	[4GEORGIA		138.00]	
44	FREQ		334071	[G2LEWIS		22.000]	
46	FREQ		334073	[4EGYPT		138.00]	
48	FREQ		334075	[4LONGMIR		138.00]	
50	FREQ		334077	[4PECHCK#		138.00]	
52	FREQ		334079	[4FWPIPE		138.00]	
54	FREQ		334081	[4CRYSTAL		138.00]	
56	FREQ		334083	[4JAYHAWK		138.00]	
58	FREQ		334085	[6LEWISCREEK		230.00]	
60	FREQ		334090	[4ALDEN		138.00]	
62	FREQ		99182	[G2PID211		18.000]	
64	VOLT		334050	[4PEE DEE		138.00]	
66	VOLT		334052	[4CEDAR		138.00]	
68	VOLT		334054	[4WALKER		138.00]	
70	VOLT		334056	[L558TP91		138.00]	
72	VOLT		334058	[L558T485		138.00]	
74	VOLT		334060	[4MT.ZION		138.00]	
76	VOLT		334062	[4TEMCO		138.00]	
78	VOLT		334064	[8LNG 413		138.00]	
80	VOLT		334066	[4GEORGIA		138.00]	
82	VOLT		334071	[G2LEWIS		22.000]	
84	VOLT		334073	[4EGYPT		138.00]	
86	VOLT		334075	[4LONGMIR		138.00]	
88	VOLT		334077	[4PECHCK#		138.00]	
90	VOLT		334079	[4FWPIPE		138.00]	
92	VOLT		334081	[4CRYSTAL		138.00]	
94	VOLT		334083	[4JAYHAWK		138.00]	
96	VOLT		334085	[6LEWISCREEK		230.00]	
98	VOLT		334090	[4ALDEN		138.00]	
100	VOLT		334092	[4METRO2		138.00]	
102	VOLT		334100	[4PORTER		138.00]	
104	VOLT		334102	[4CEDHILL		138.00]	
106	VOLT		334104	[4CONROE		138.00]	
108	VOLT		334106	[4CONAIR		138.00]	
110	VOLT		334108	[4JEFCON		138.00]	
112	VOLT		334110	[PORTER SVC		138.00]	

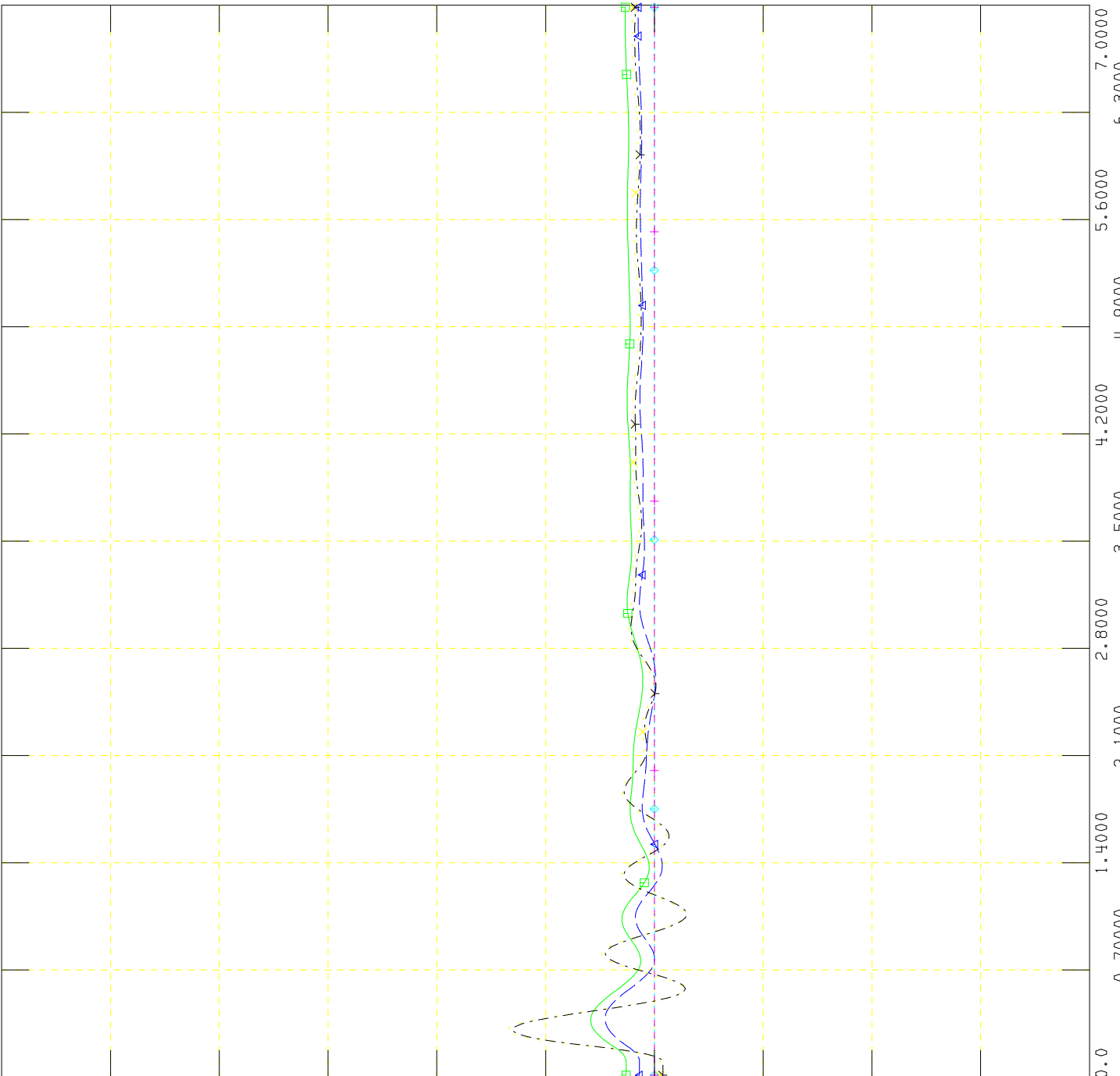
**FAULT 1**  
**Lewis Creek – Longmire 138 kV**  
**Normal Clearing Times**



LC  
 LC-LONGMIRE  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
150.00	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
150.00	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
150.00	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
150.00	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
150.00	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



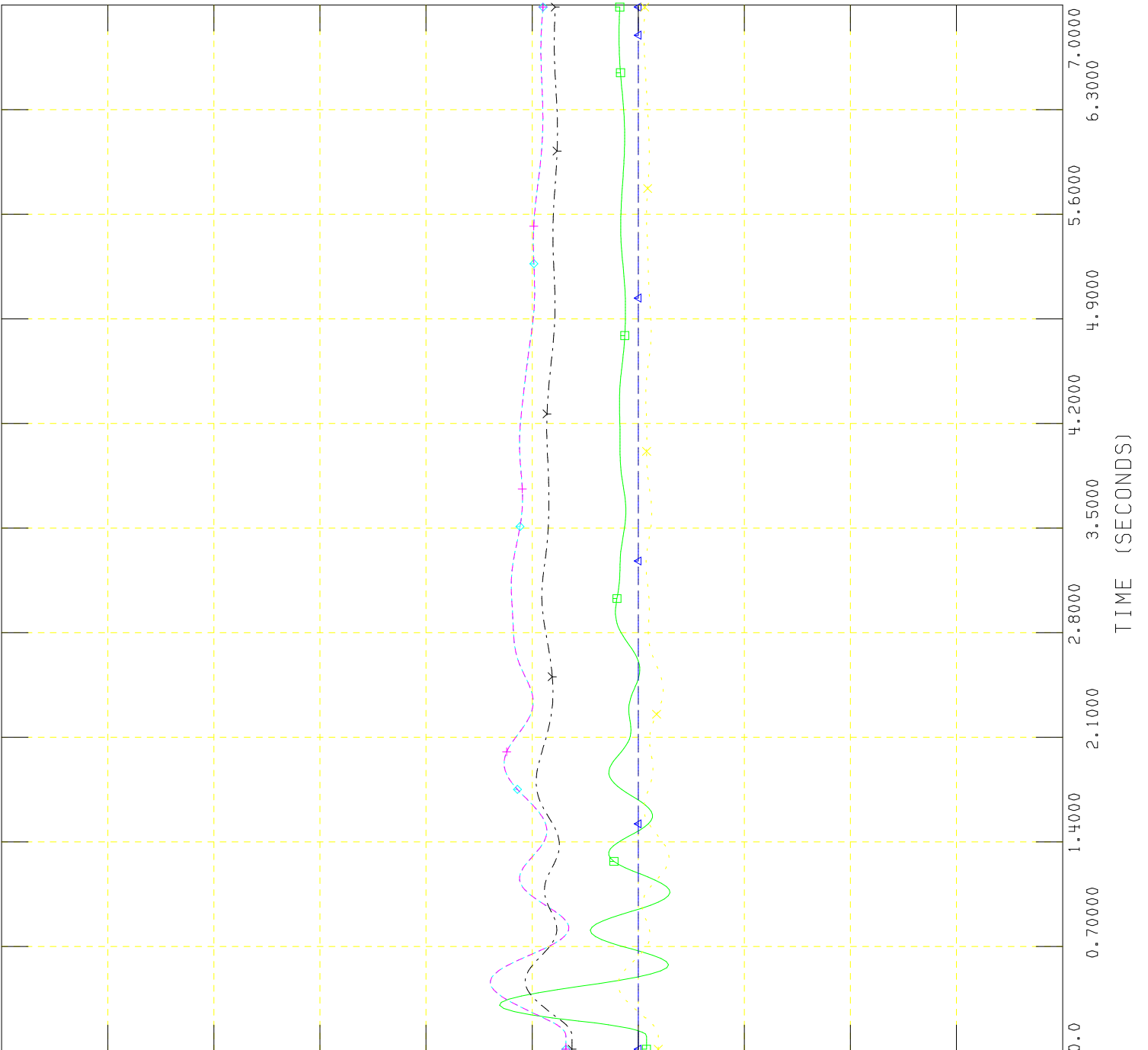
FRI, JUN 13 2008 14:43  
 MACHINE ANGLES - 01



LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

Channel	Label	Value
150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0



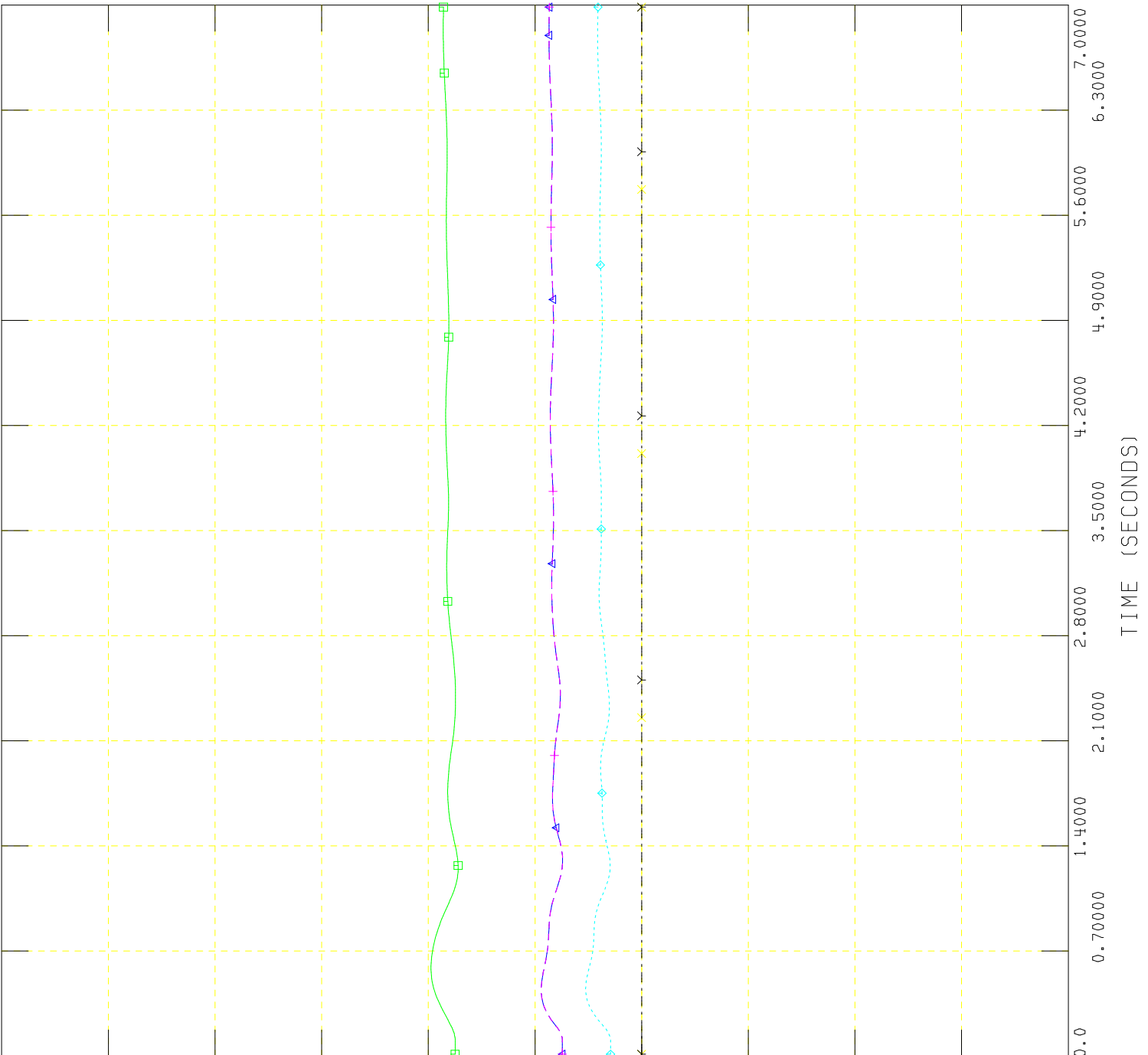
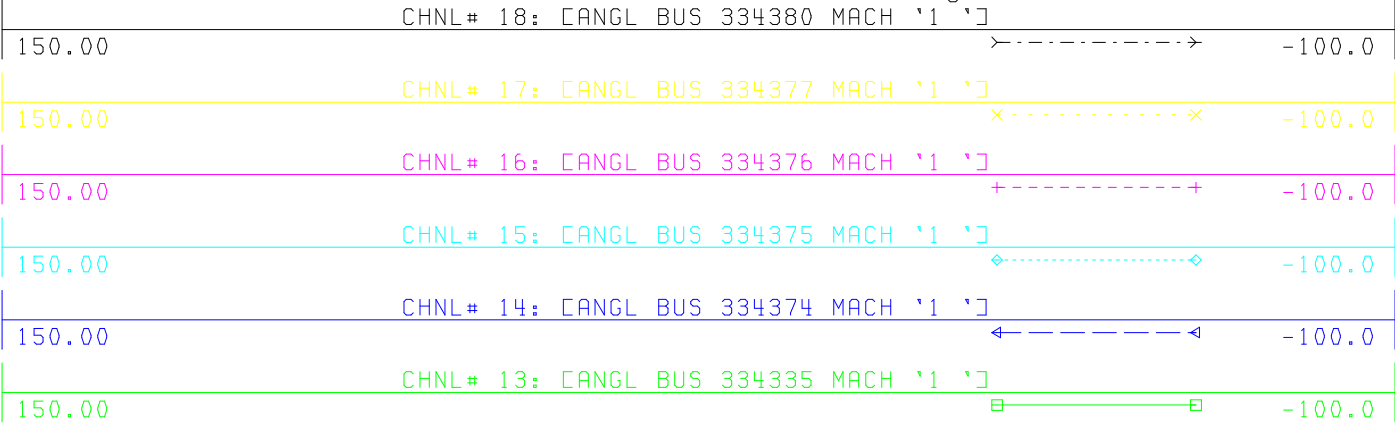
FRI, JUN 13 2008 14:43  
MACHINE ANGLES - 02





LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out



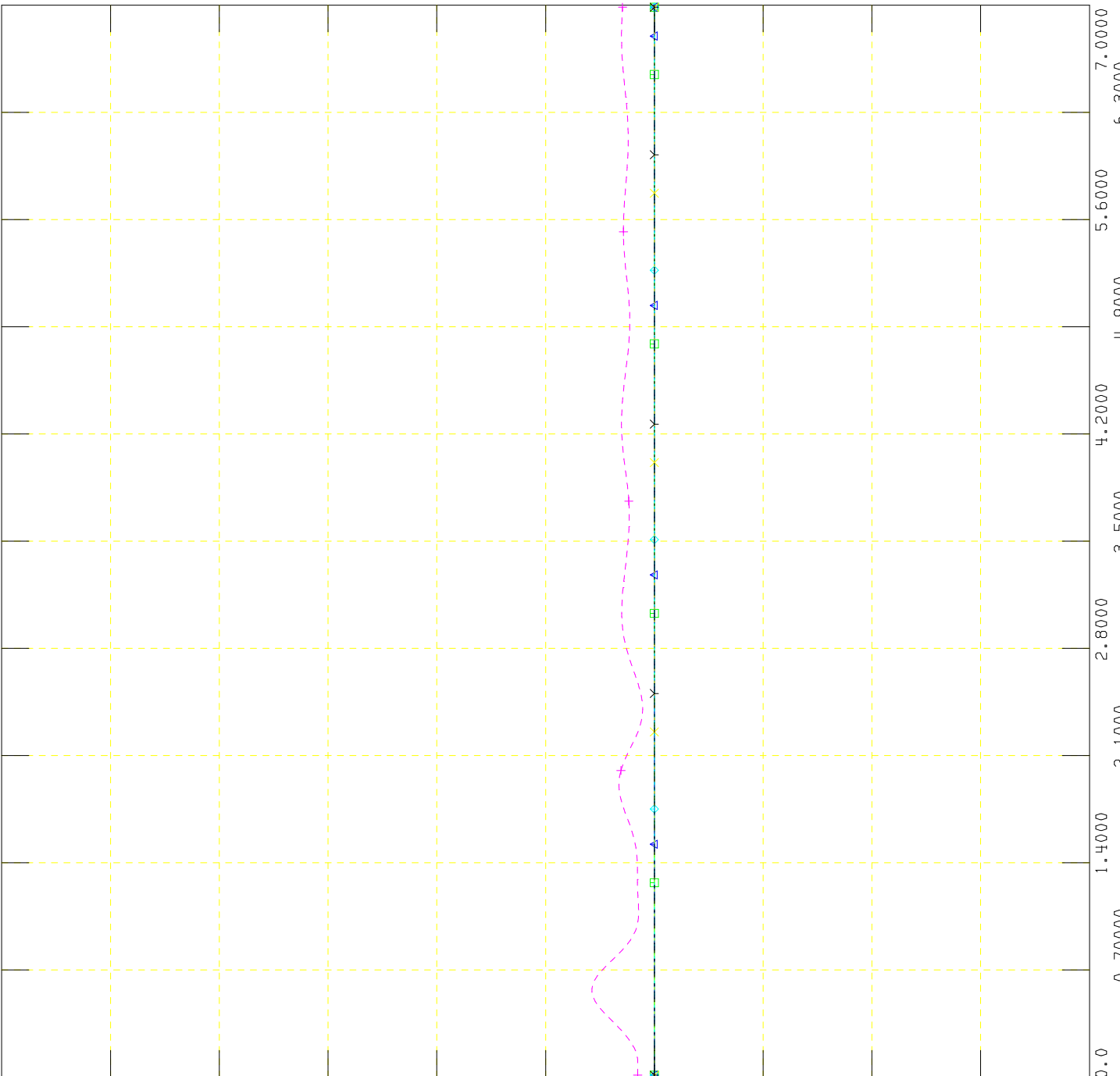
FRI, JUN 13 2008 14:43  
MACHINE ANGLES - 03



LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

Value	Channel	Symbol	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	→-----→	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	×-----×	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	+-----+	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	◇-----◇	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	←-----←	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	▣-----▣	-100.0



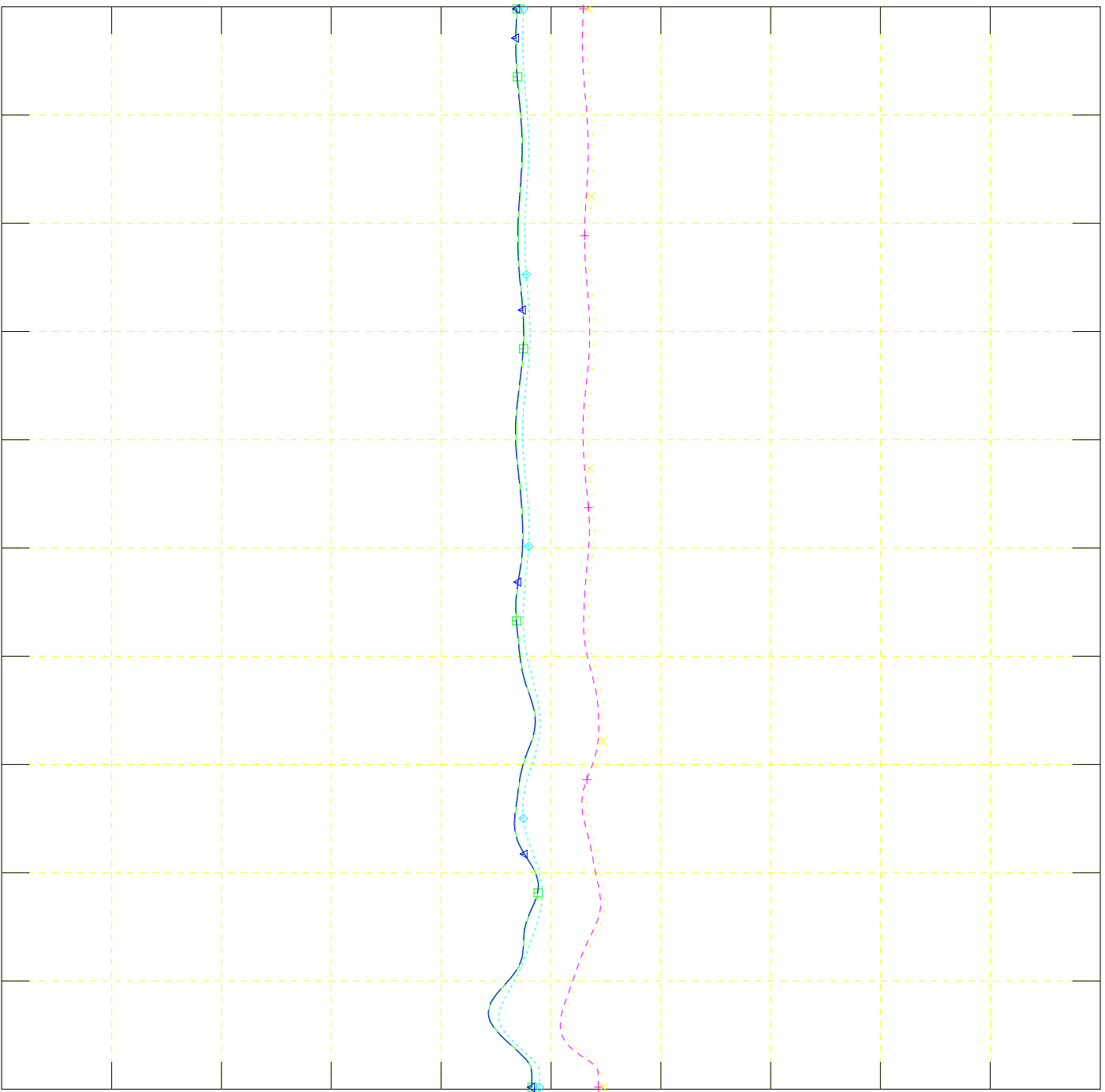
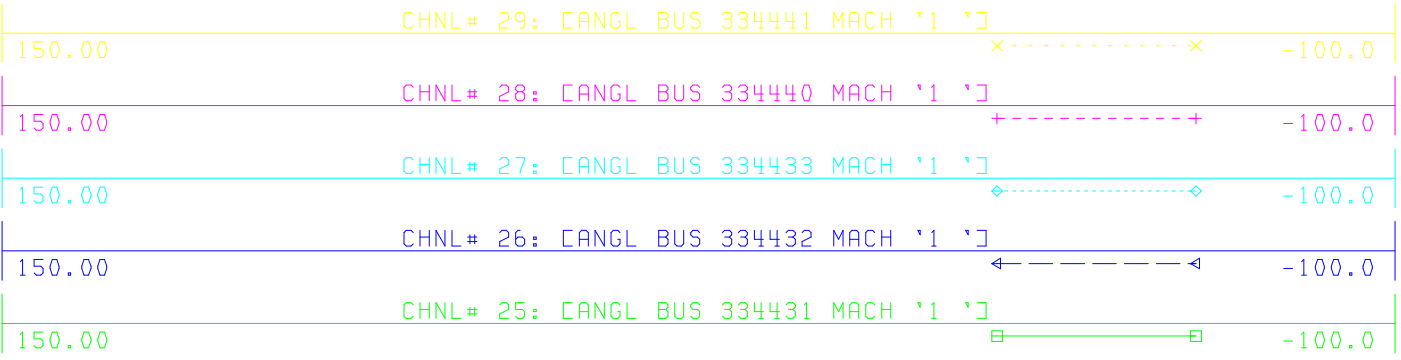
FRI, JUN 13 2008 14:43  
MACHINE ANGLES - 04



LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

FRI, JUN 13 2008 14:43  
MACHINE ANGLES - 05

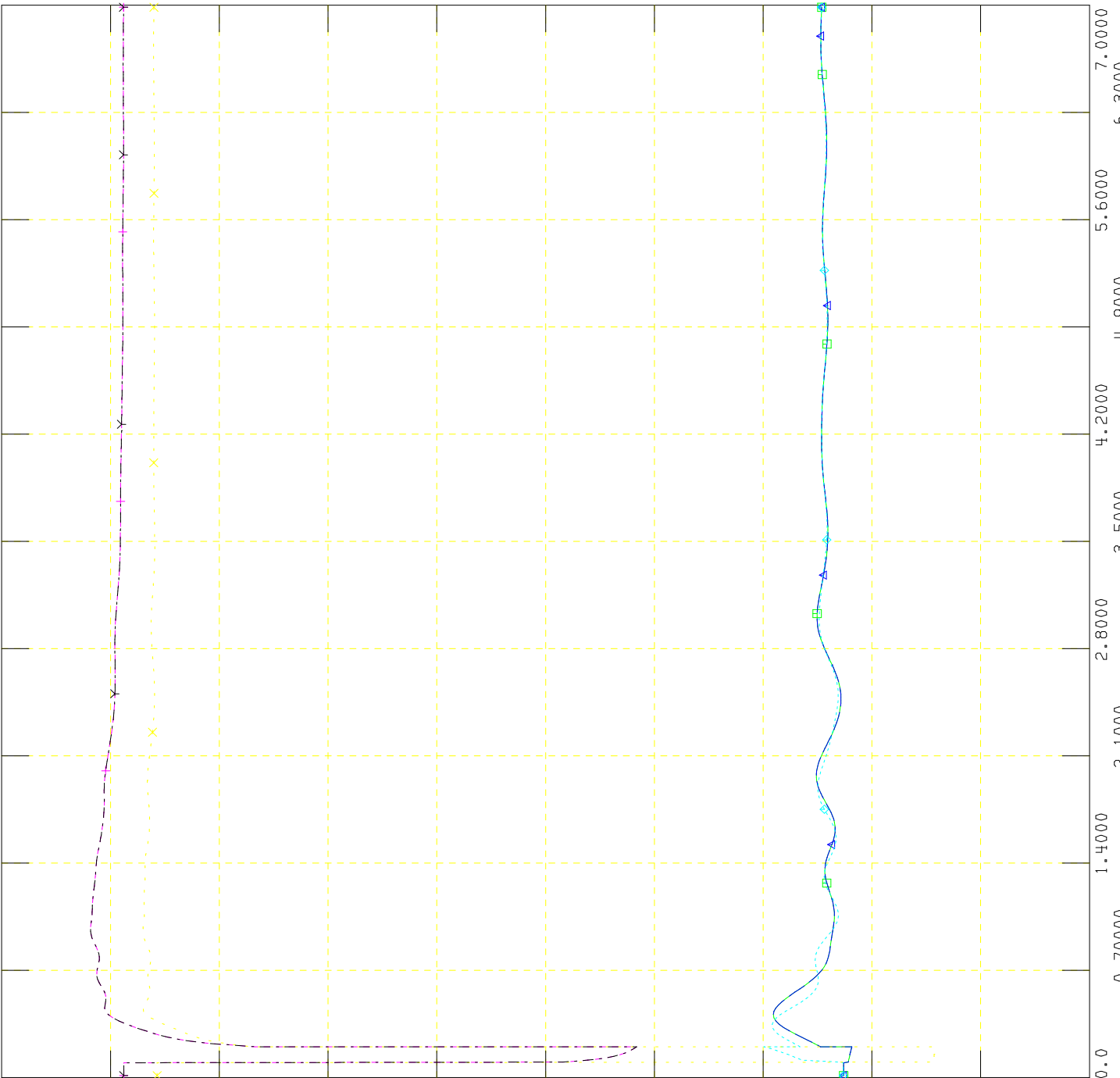




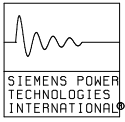
LC  
 LC-LONGMIRE  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



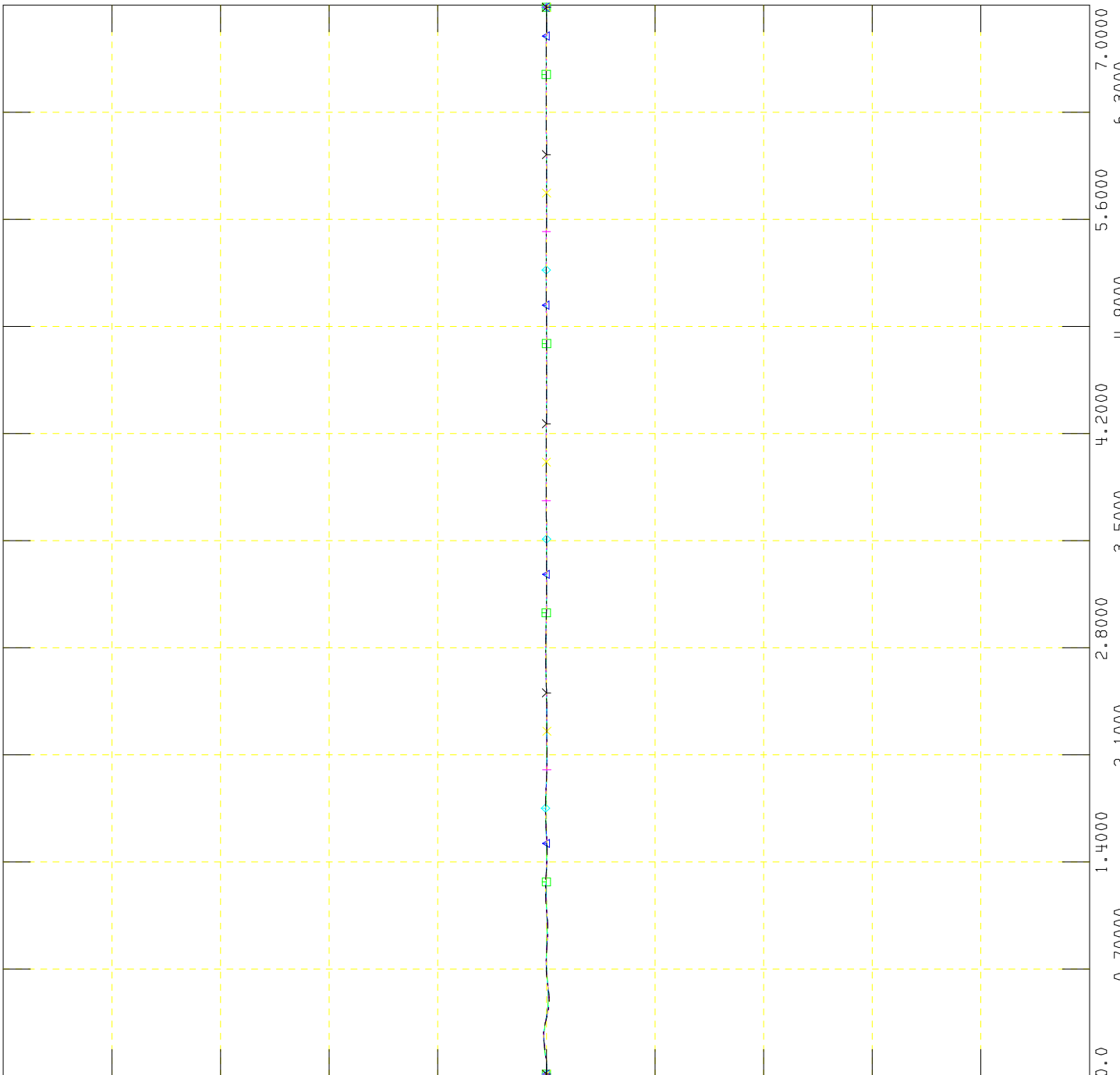
FRI, JUN 13 2008 14:43  
 ANG & VOLT - PID-211 GENS



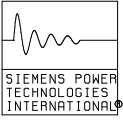
LC  
 LC-LONGMIRE  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

0.50000	CHNL# 41: [FREQ 334065 [4LACON 138.00]]	-0.50000
0.50000	CHNL# 40: [FREQ 334064 [8LNG 413 138.00]]	-0.50000
0.50000	CHNL# 39: [FREQ 334063 [4EVGRN* 138.00]]	-0.50000
0.50000	CHNL# 38: [FREQ 334062 [4TEMCO 138.00]]	-0.50000
0.50000	CHNL# 37: [FREQ 334061 [4GOREE 138.00]]	-0.50000
0.50000	CHNL# 36: [FREQ 334060 [4MT.ZION 138.00]]	-0.50000



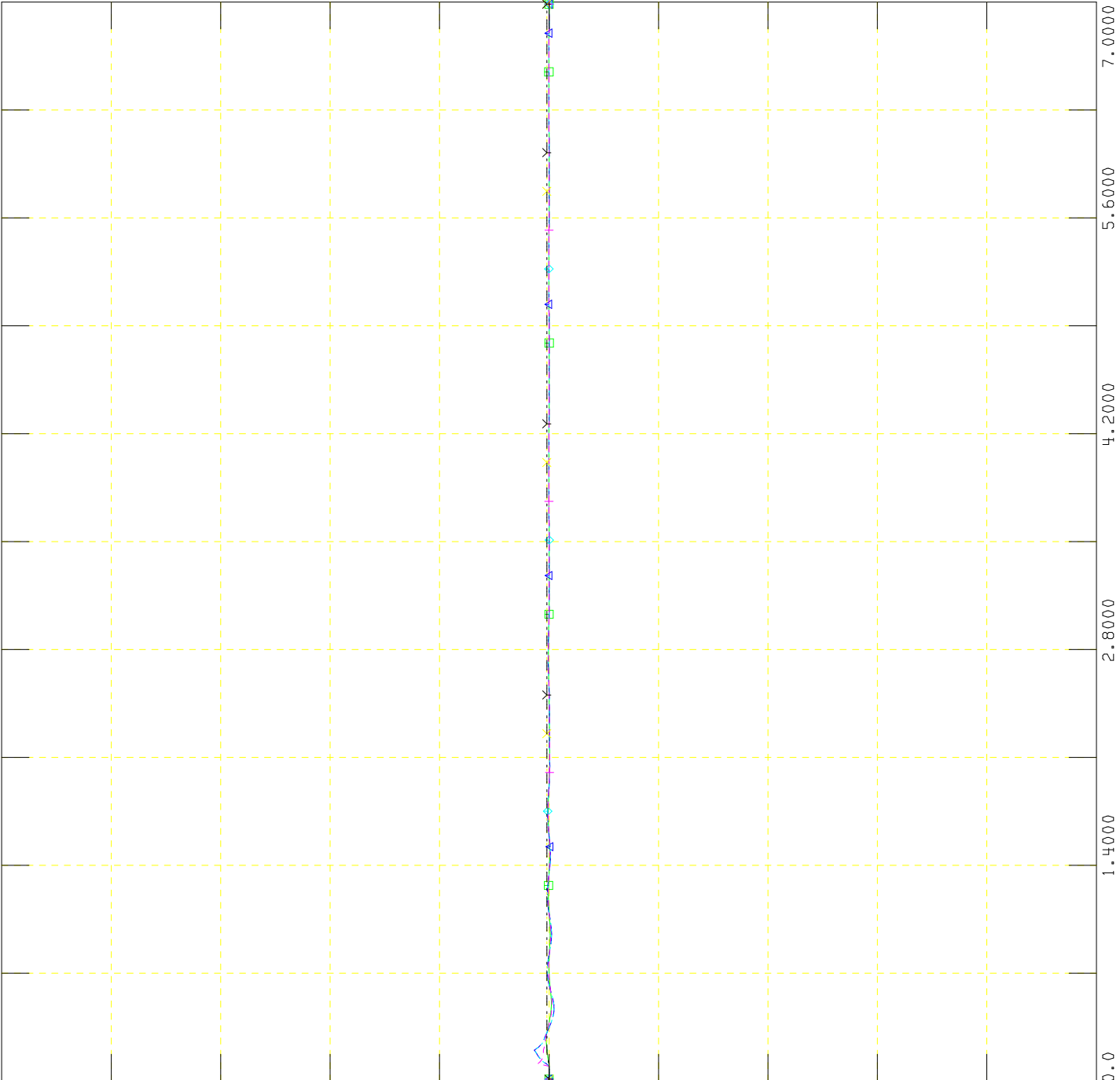
FRI, JUN 13 2008 14:43  
 MACHINE FREQUENCIES - 01



LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



FRI, JUN 13 2008 14:43  
MACHINE FREQUENCIES - 02

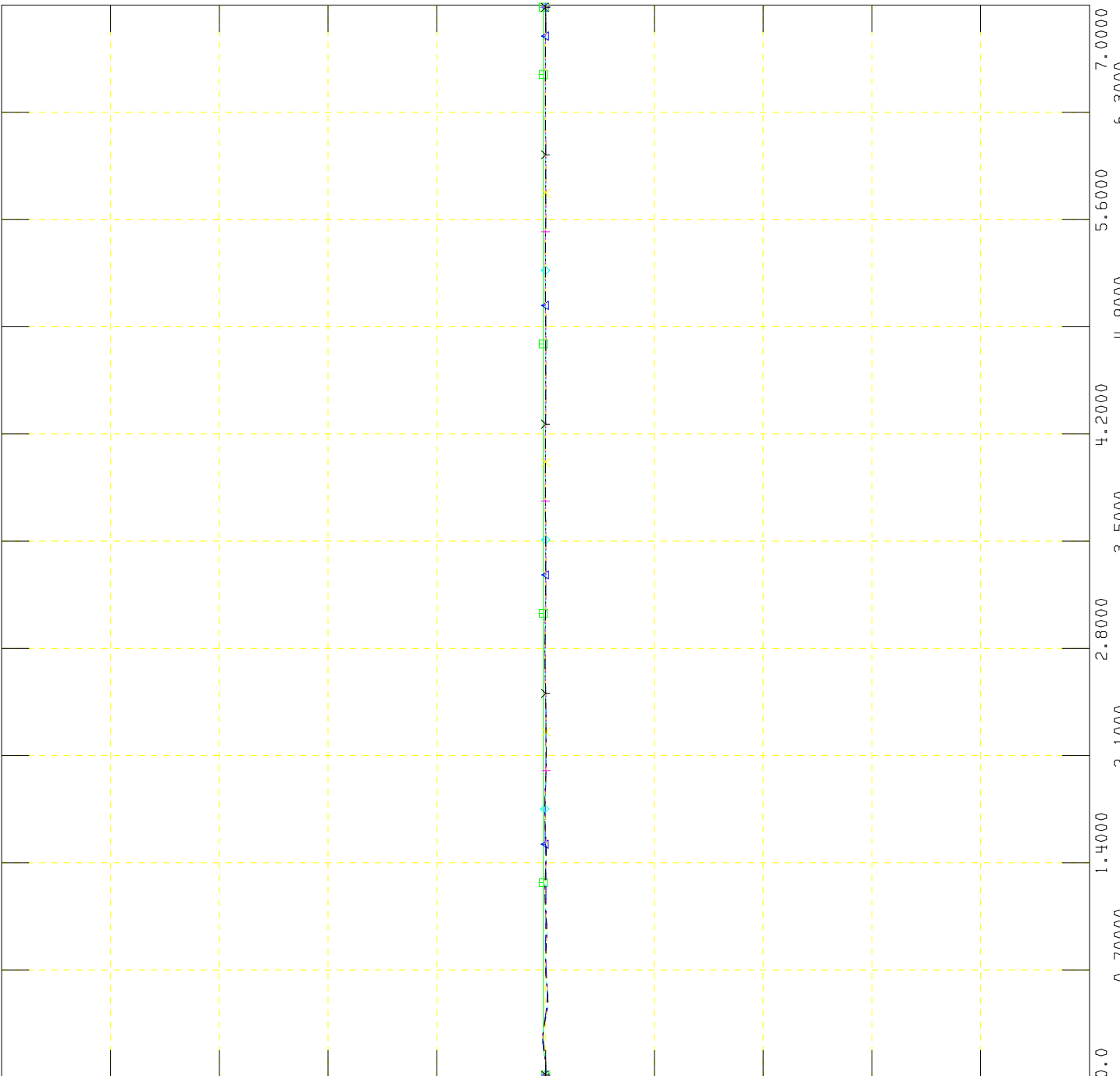
TIME (SECONDS)



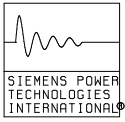
LC  
 LC-LONGMIRE  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



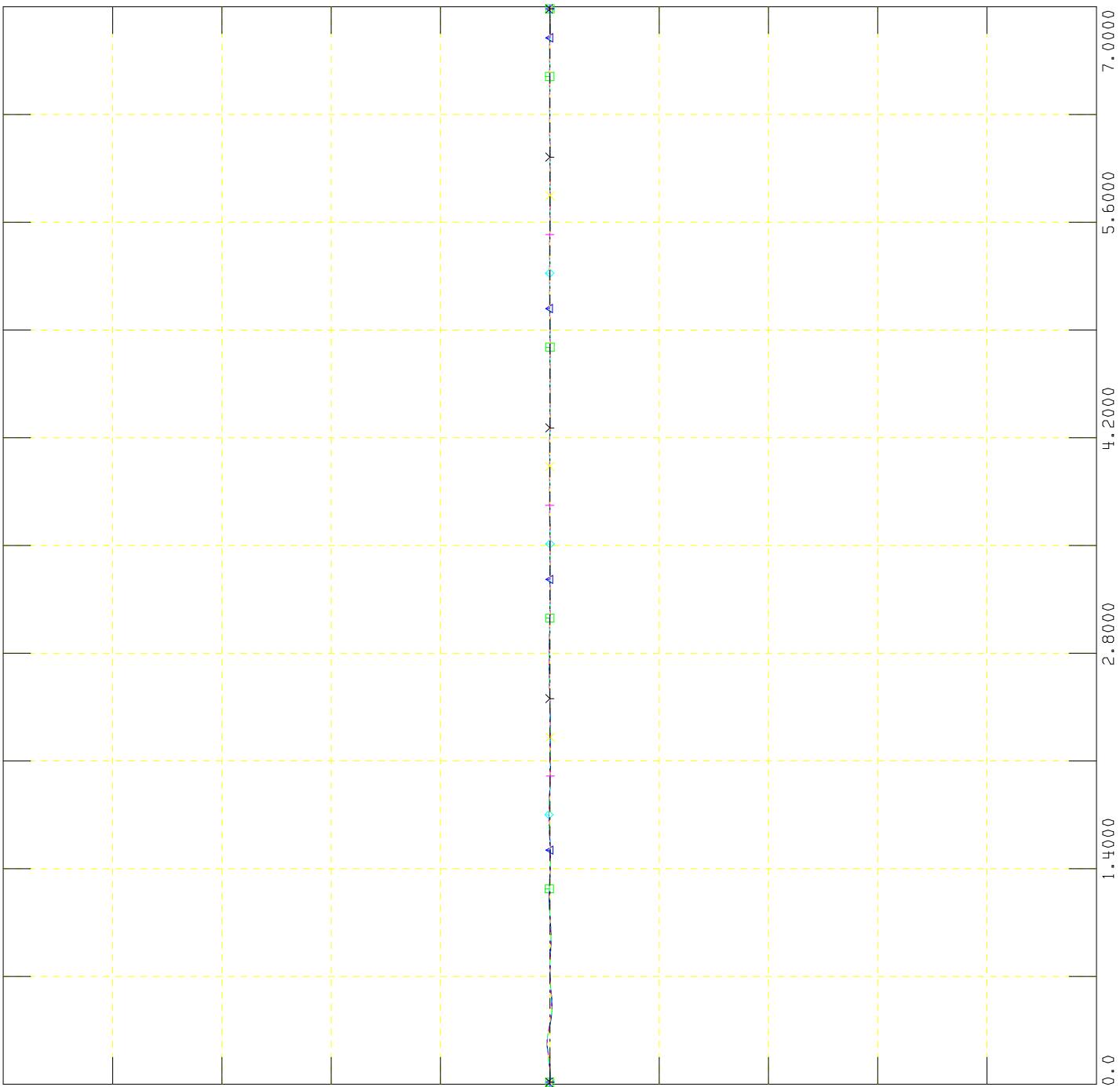
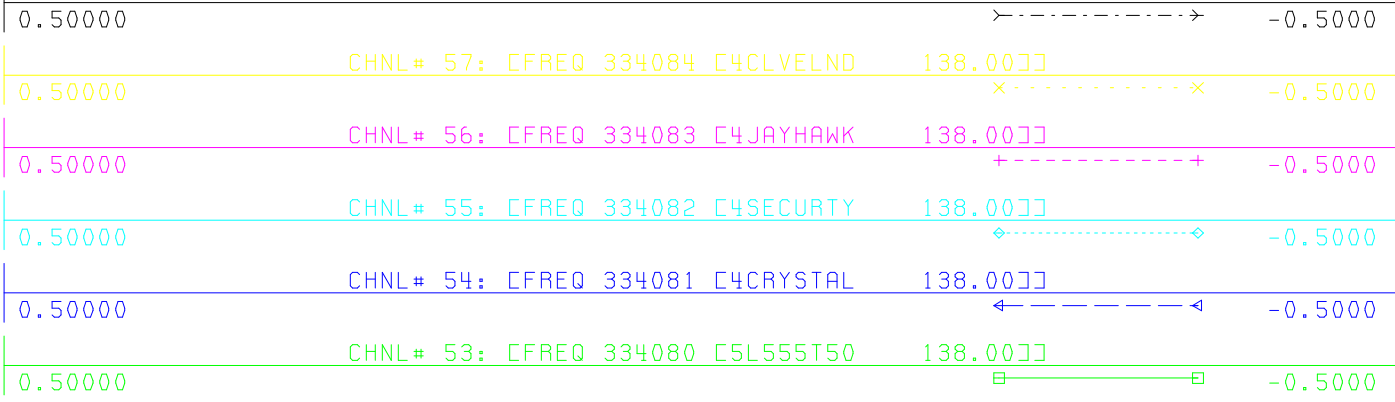
FRI, JUN 13 2008 14:43  
 MACHINE FREQUENCIES - 03



LC  
 LC-LONGMIRE  
 CLEAR LOCAL AND REMOVE IN 4CYC

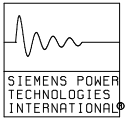
FILE: C:\Southwest Power Pool\LC-Longmire-1.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 14:43  
 MACHINE FREQUENCIES - 04



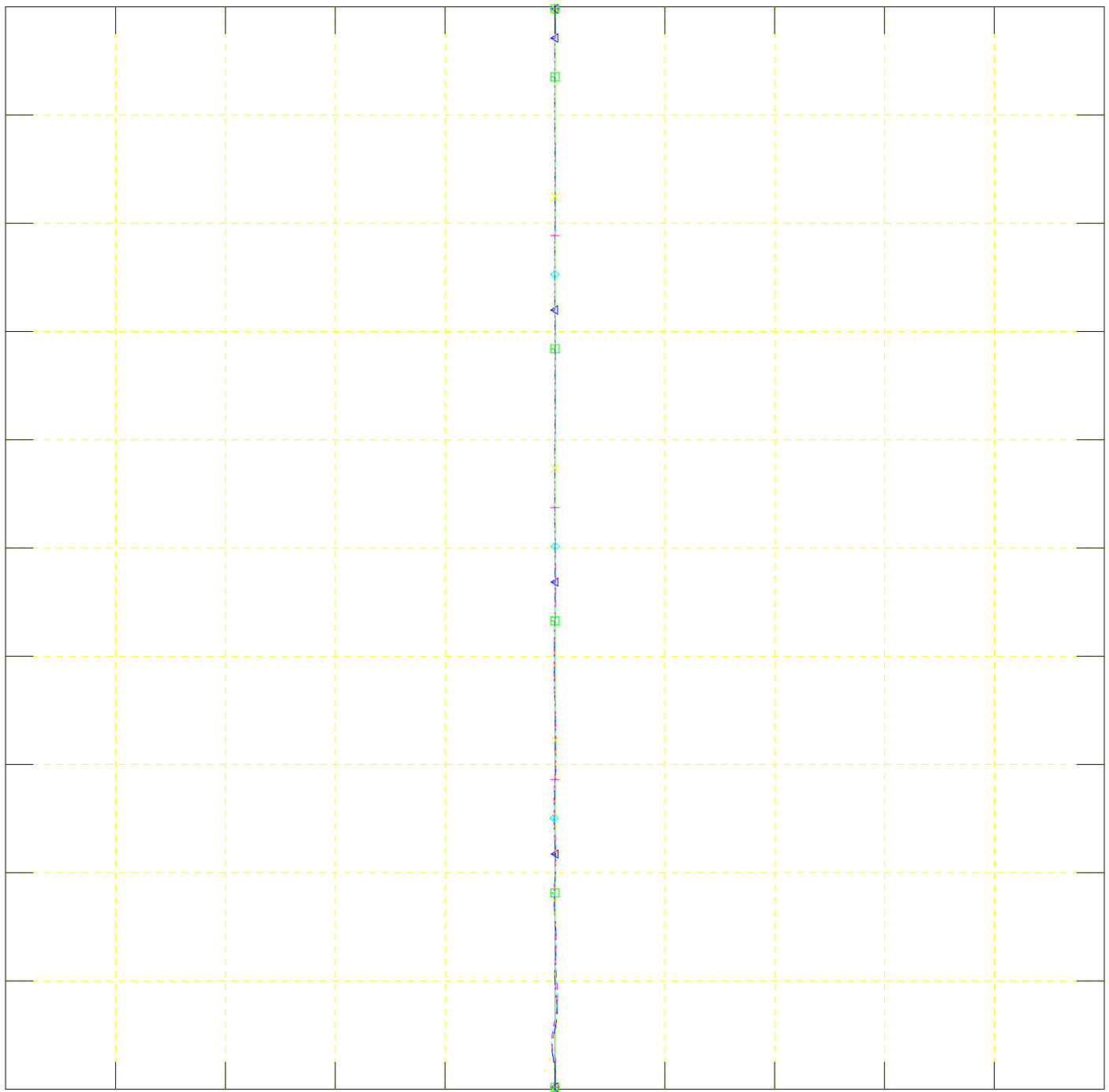


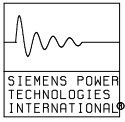
LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

FRI, JUN 13 2008 14:43  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value	Symbol
CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	99183	18.000	x
CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	99182	18.000	+
CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	99181	18.000	◇
CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	334090	138.00	△
CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	334086	230.00	□

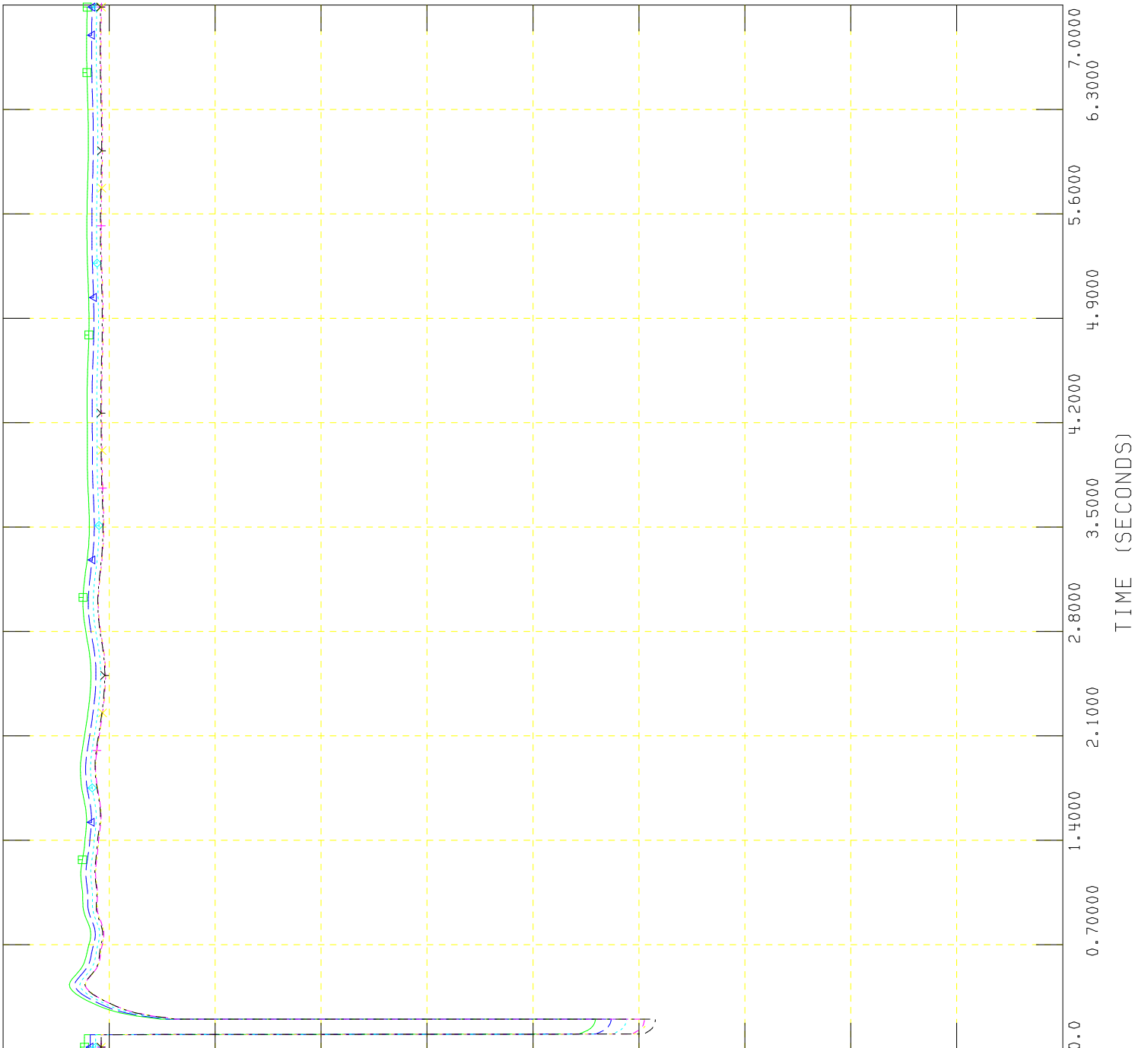




LC  
 LC-LONGMIRE  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



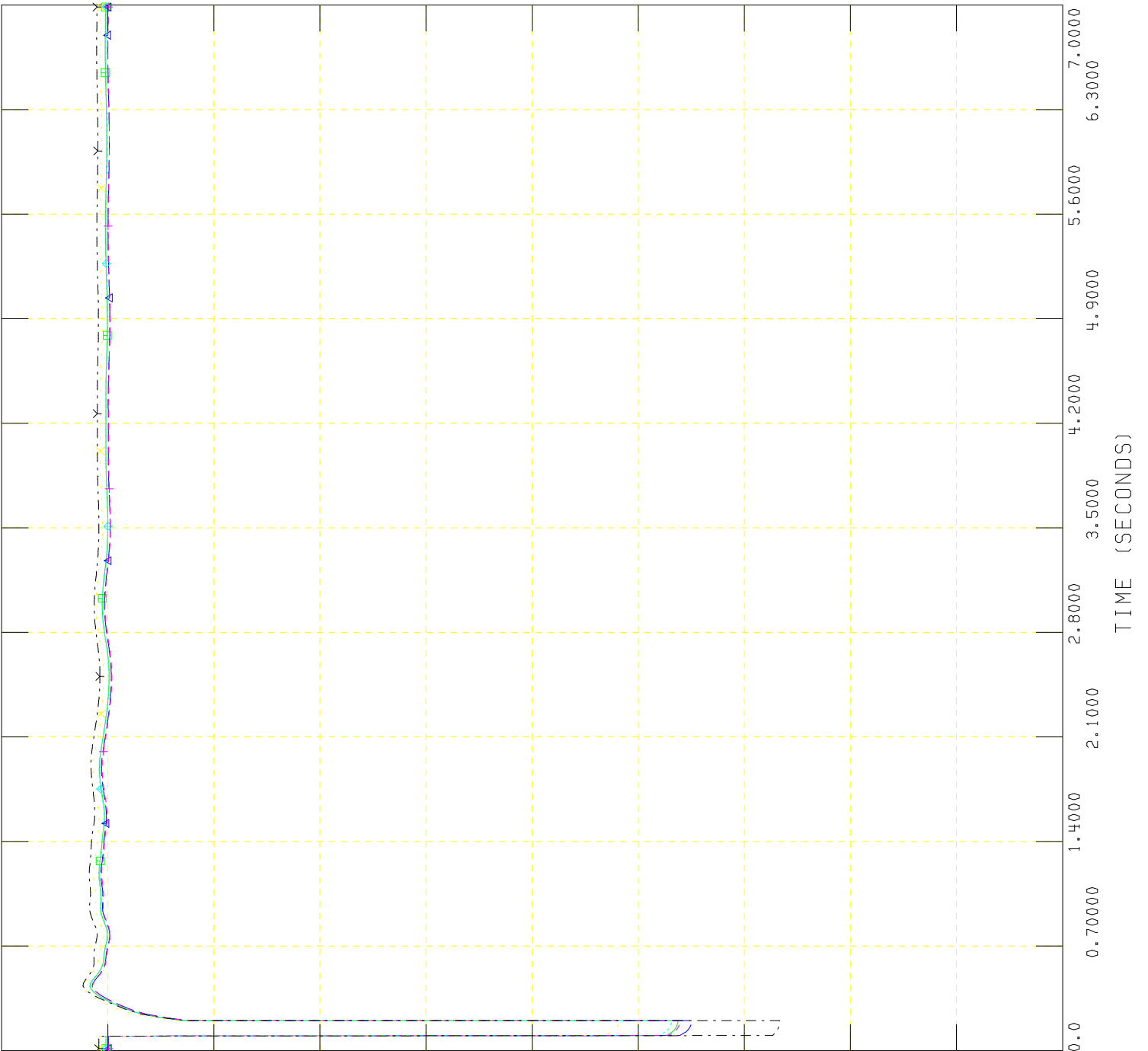
FRI, JUN 13 2008 14:43  
 BUS VOLTAGES - 01



LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



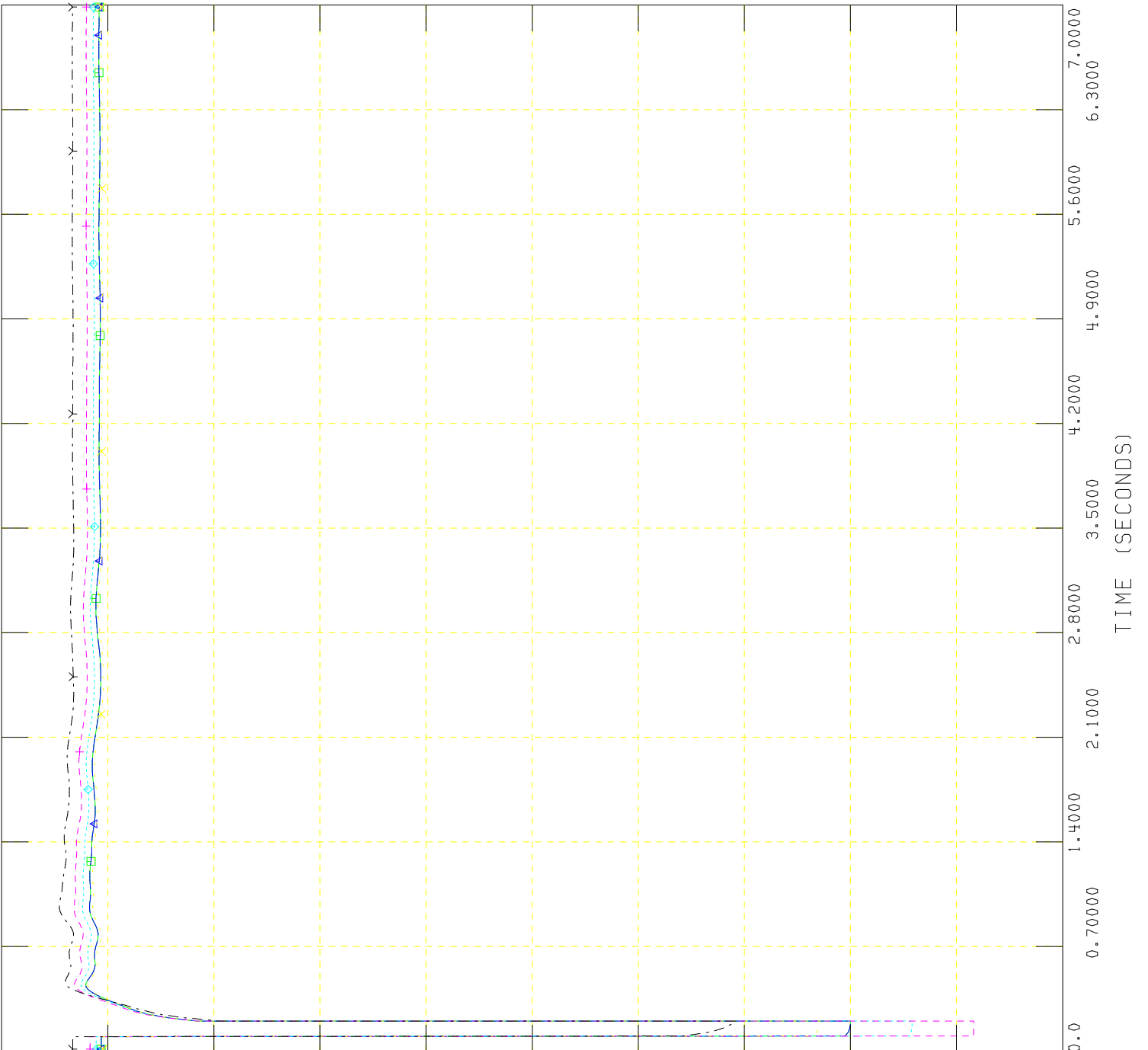
FRI, JUN 13 2008 14:43  
BUS VOLTAGES - 02



LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

Channel	Value	Unit	Scale
CHNL# 81	1.1000	EVOLT 334070	CG1LEWIS 22.000
CHNL# 80	1.1000	EVOLT 334066	E4GEORGIA 138.00
CHNL# 79	1.1000	EVOLT 334065	E4LACON 138.00
CHNL# 78	1.1000	EVOLT 334064	E8LNG 413 138.00
CHNL# 77	1.1000	EVOLT 334063	E4EVGRN* 138.00
CHNL# 76	1.1000	EVOLT 334062	E4TEMCO 138.00



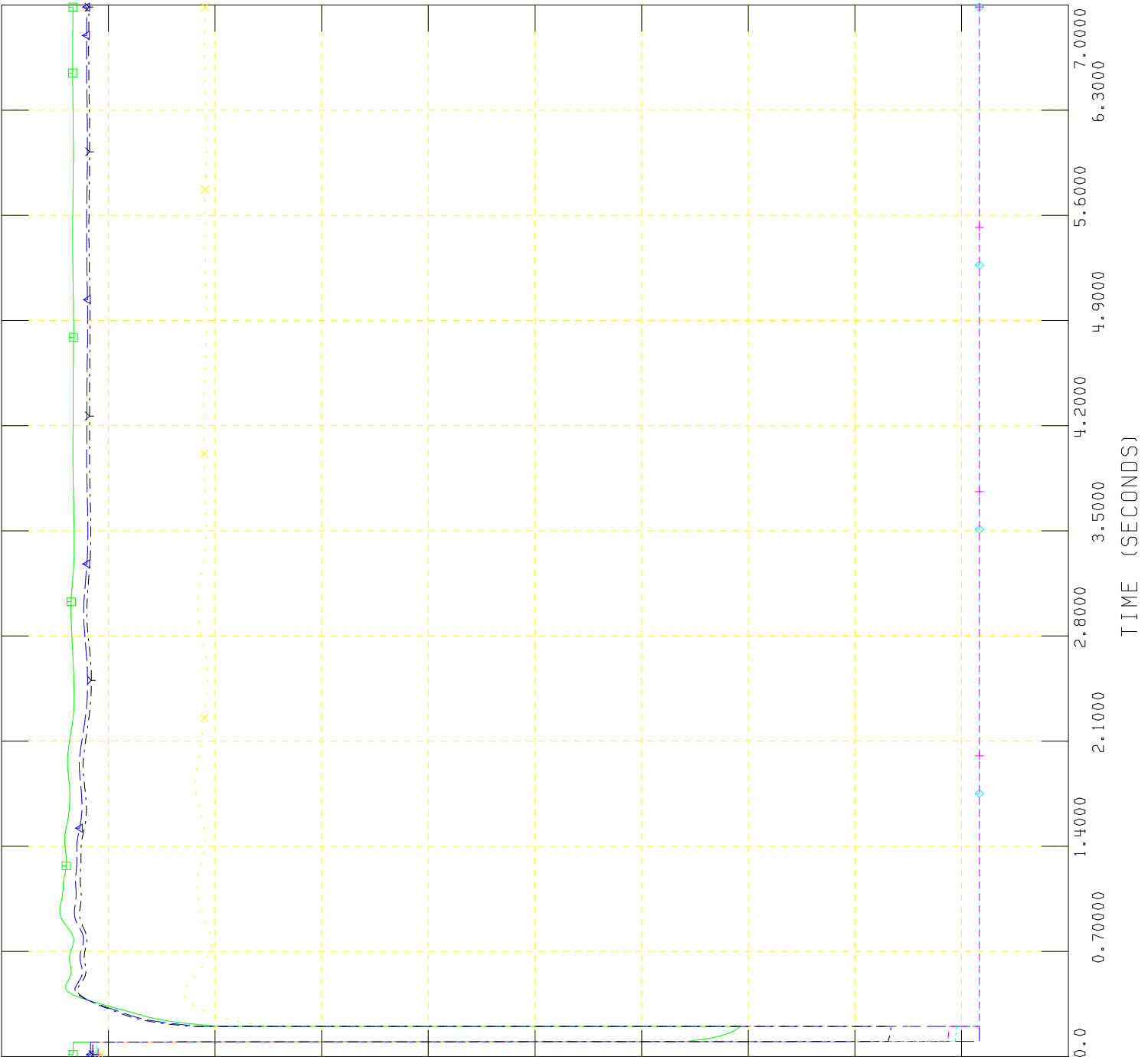
FRI, JUN 13 2008 14:43  
BUS VOLTAGES - 03



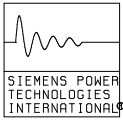
LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



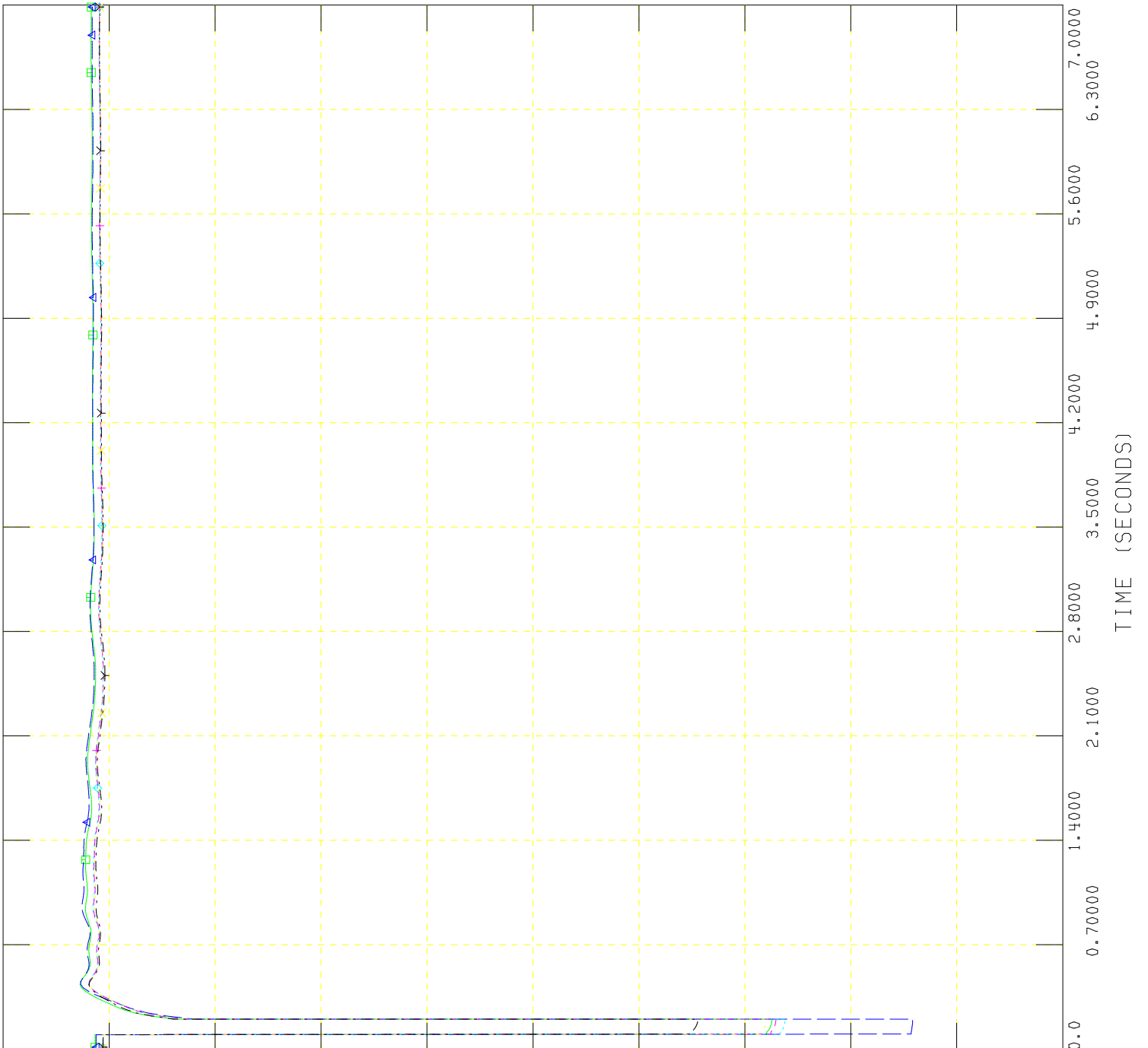
FRI, JUN 13 2008 14:43  
BUS VOLTAGES - 04



LC  
 LC-LONGMIRE  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



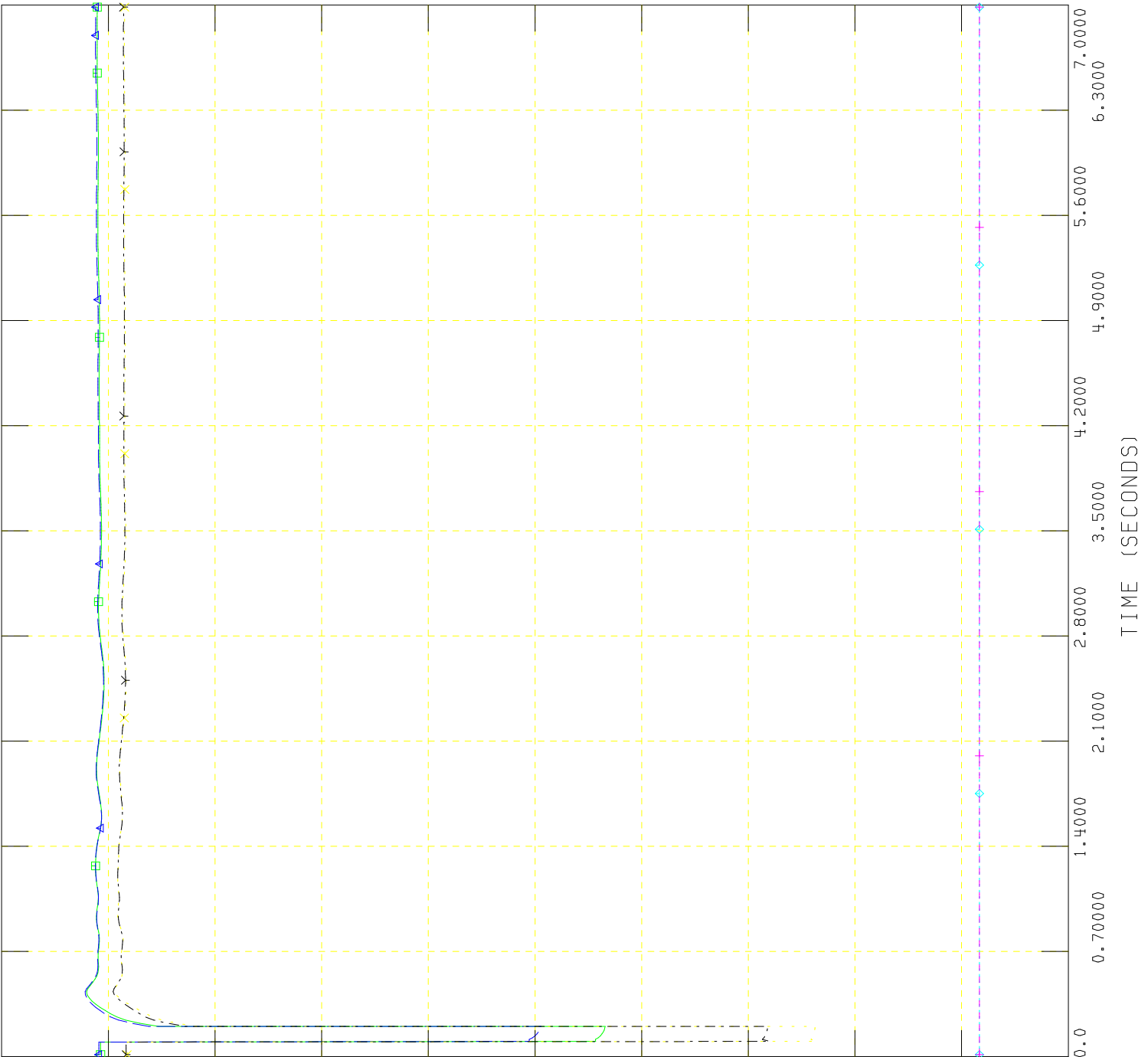
FRI, JUN 13 2008 14:43  
 BUS VOLTAGES - 05



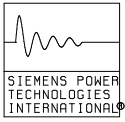
LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



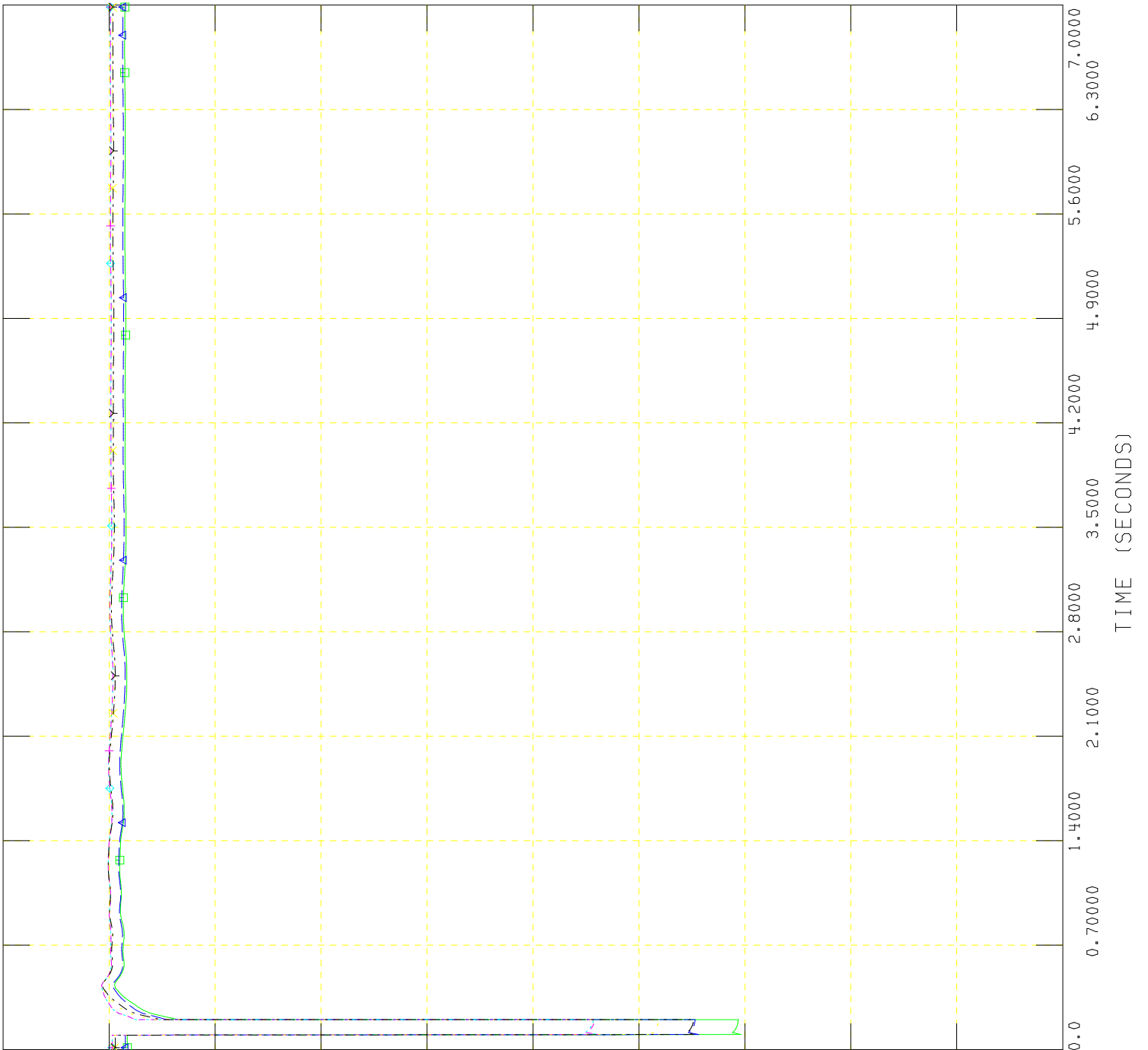
FRI, JUN 13 2008 14:43  
BUS VOLTAGES - 06



LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

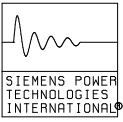
FILE: C:\Southwest Power Pool\LC-Longmire-1.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



FRI, JUN 13 2008 14:43  
BUS VOLTAGES - 07

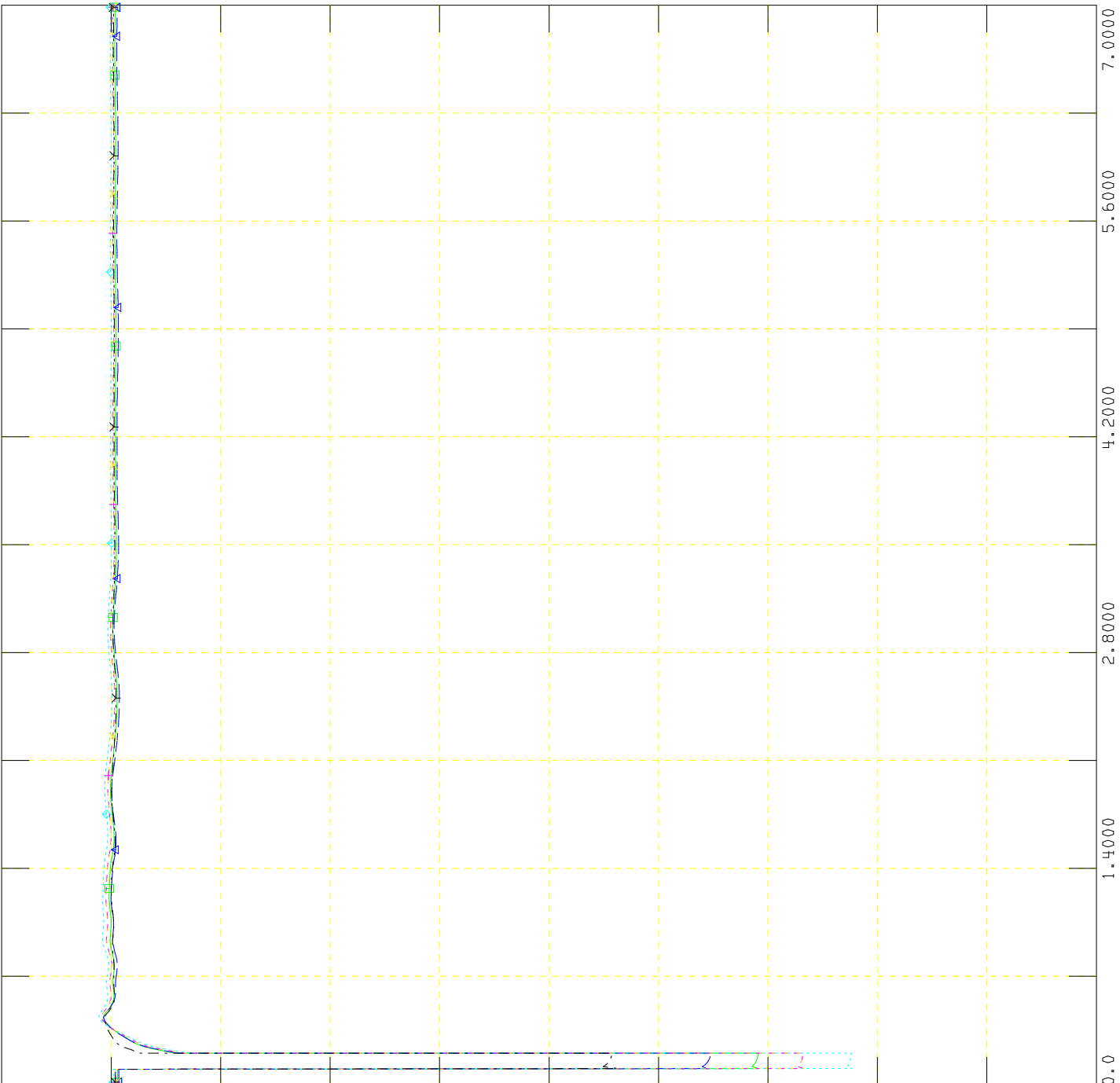




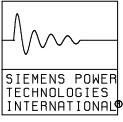
LC  
 LC-LONGMIRE  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



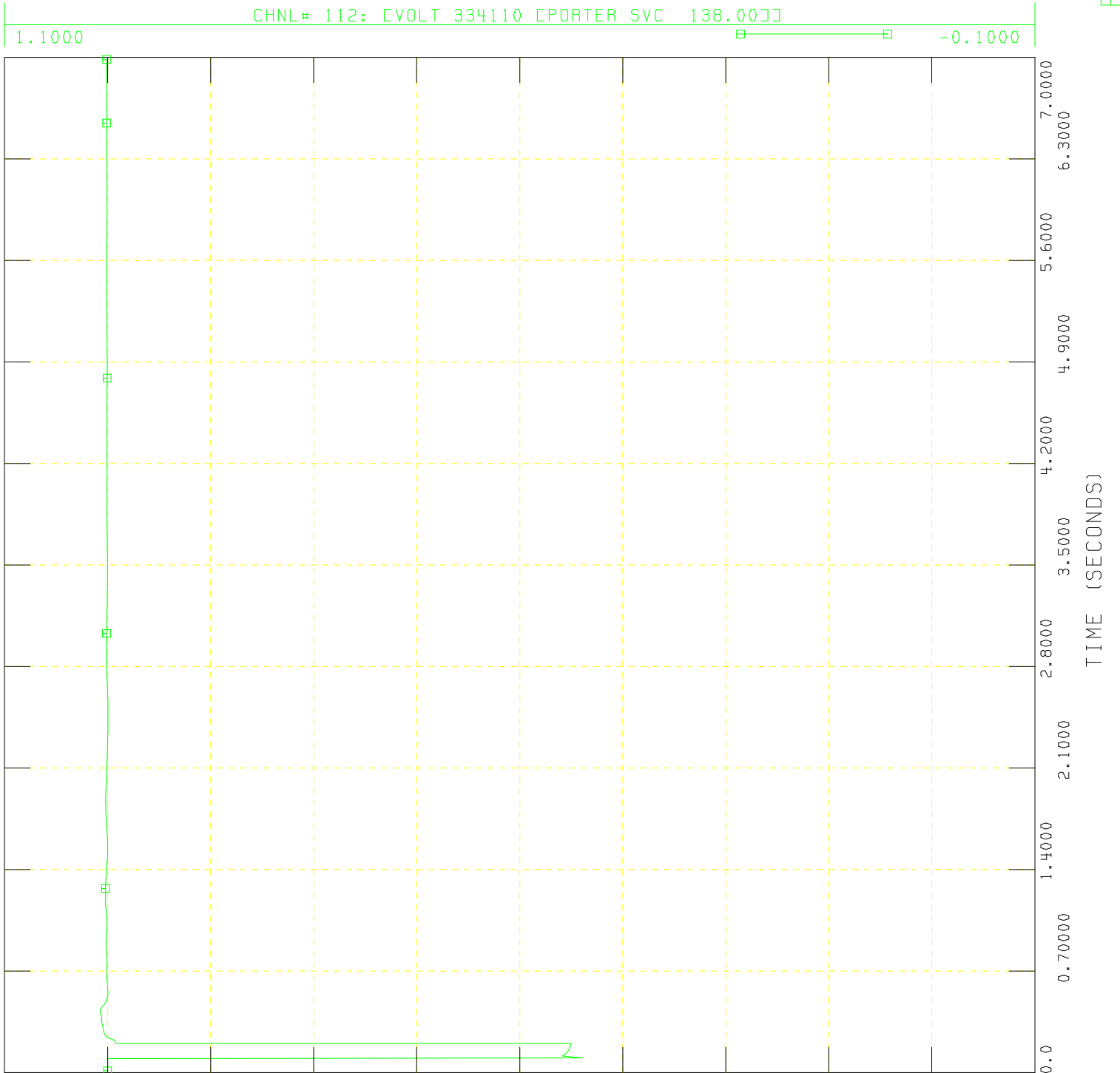
FRI, JUN 13 2008 14:43  
 BUS VOLTAGES - 08



LC  
LC-LONGMIRE  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Longmire-1.out

FRI, JUN 13 2008 14:43  
BUS VOLTAGES - 09



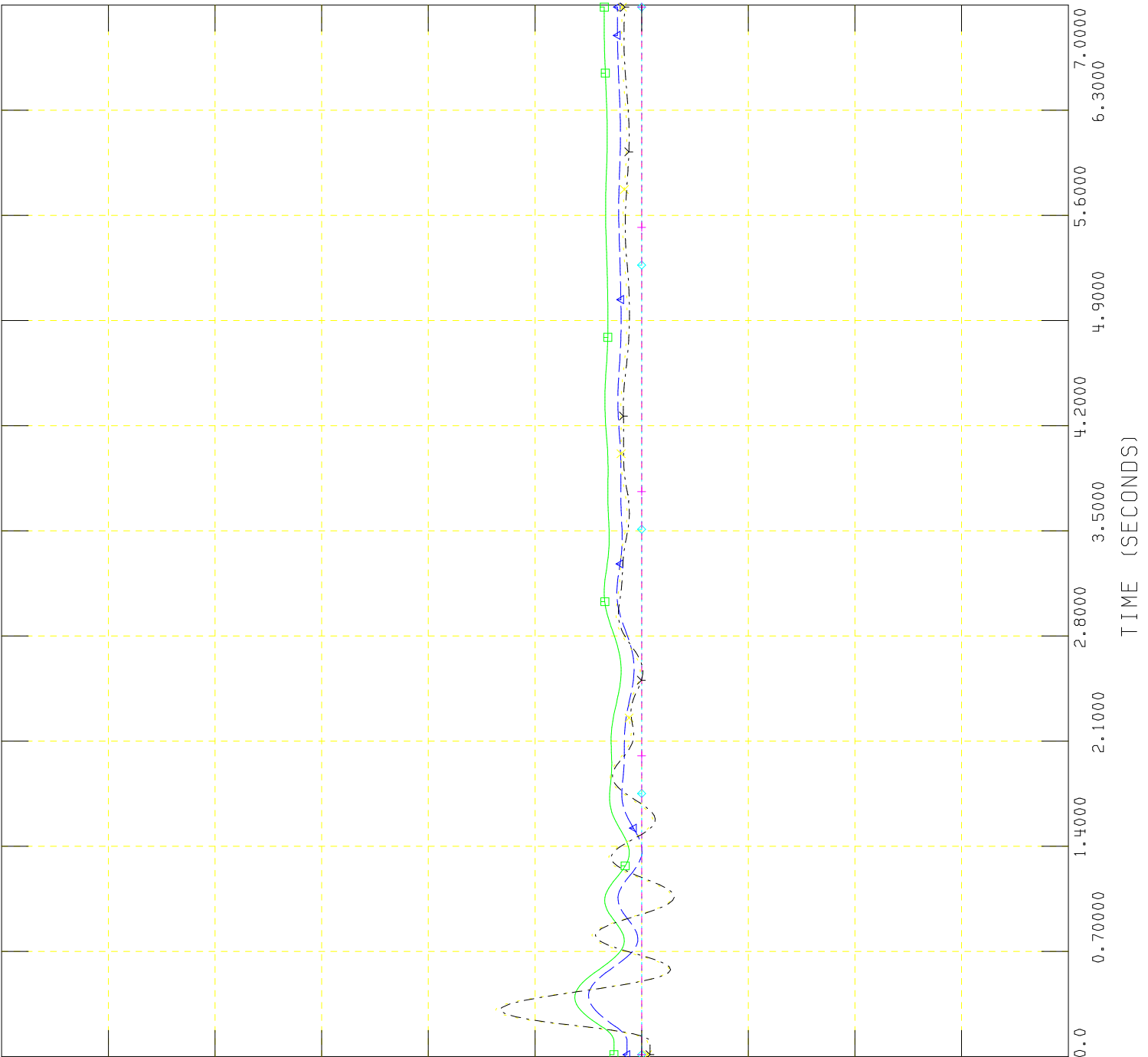
**FAULT 2**  
**Lewis Creek – Alden 138 kV**  
**Normal Clearing Times**



LC  
LC-ALDEN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

Channel	Label	Value
6	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



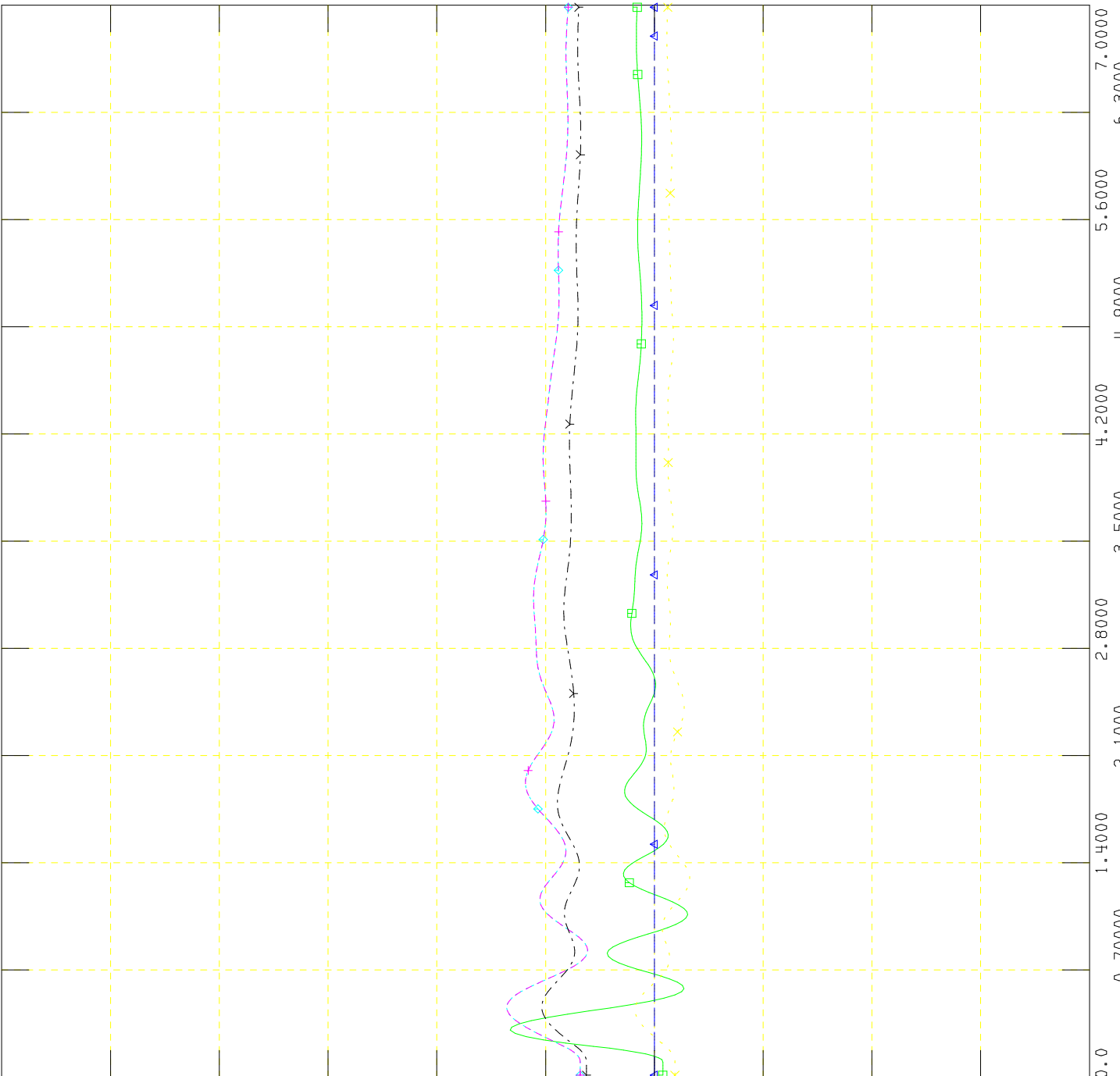
FRI, JUN 13 2008 14:45  
MACHINE ANGLES - 01



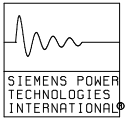
LC  
 LC-ALDEN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

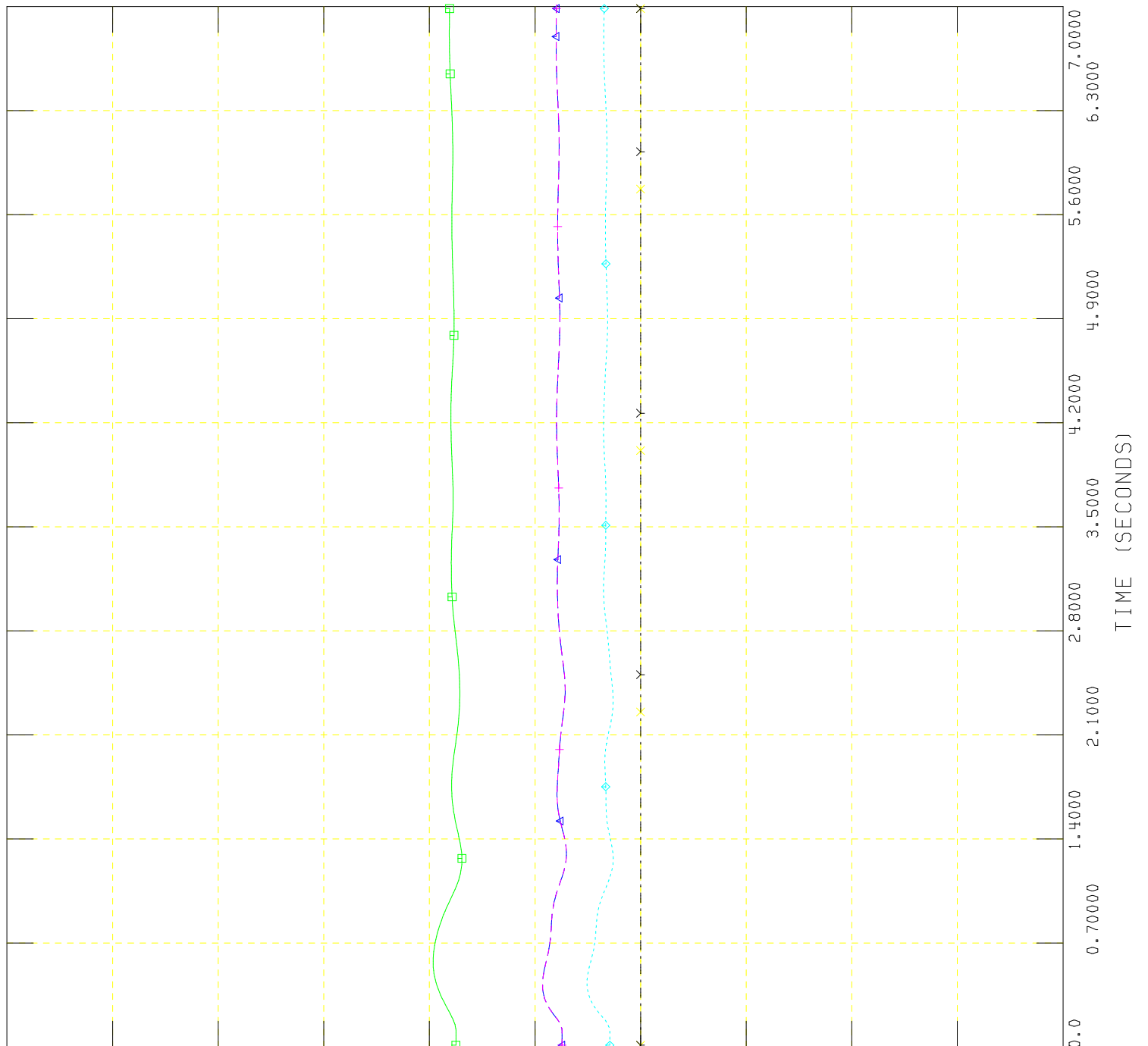
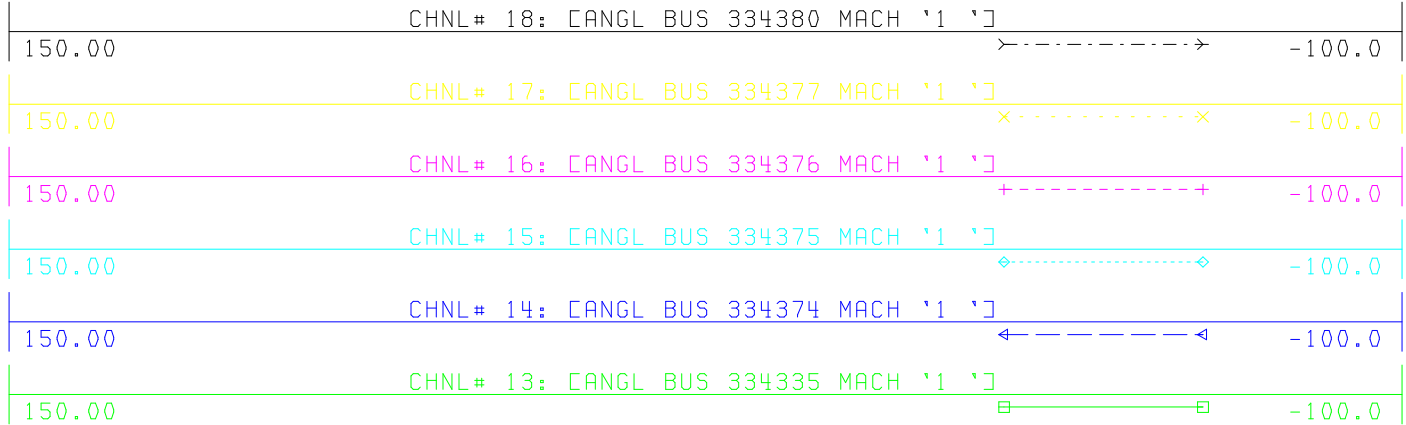


FRI, JUN 13 2008 14:45  
 MACHINE ANGLES - 02



LC  
LC-ALDEN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out



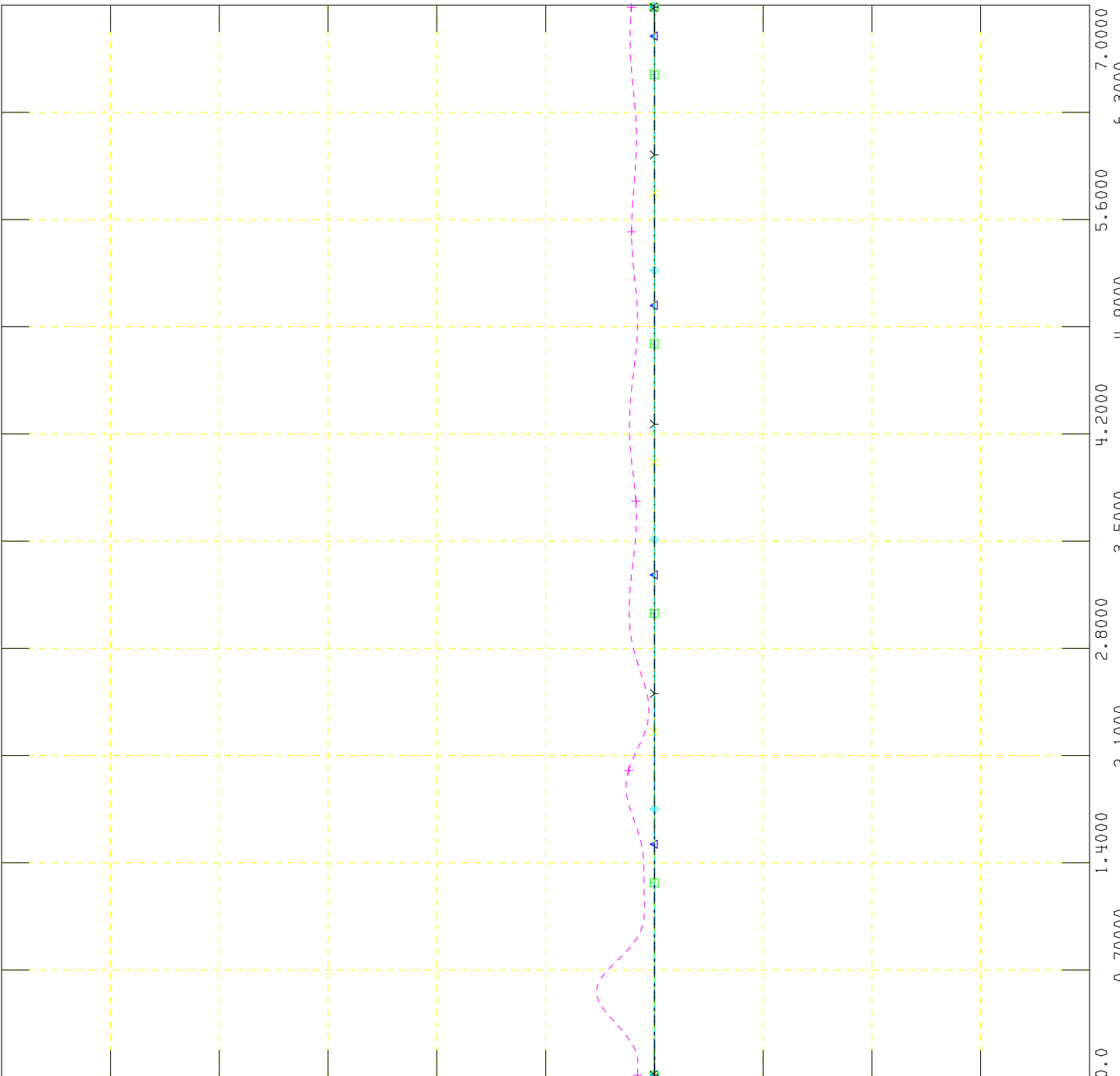
FRI, JUN 13 2008 14:45  
MACHINE ANGLES - 03



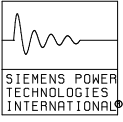
LC  
 LC-ALDEN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



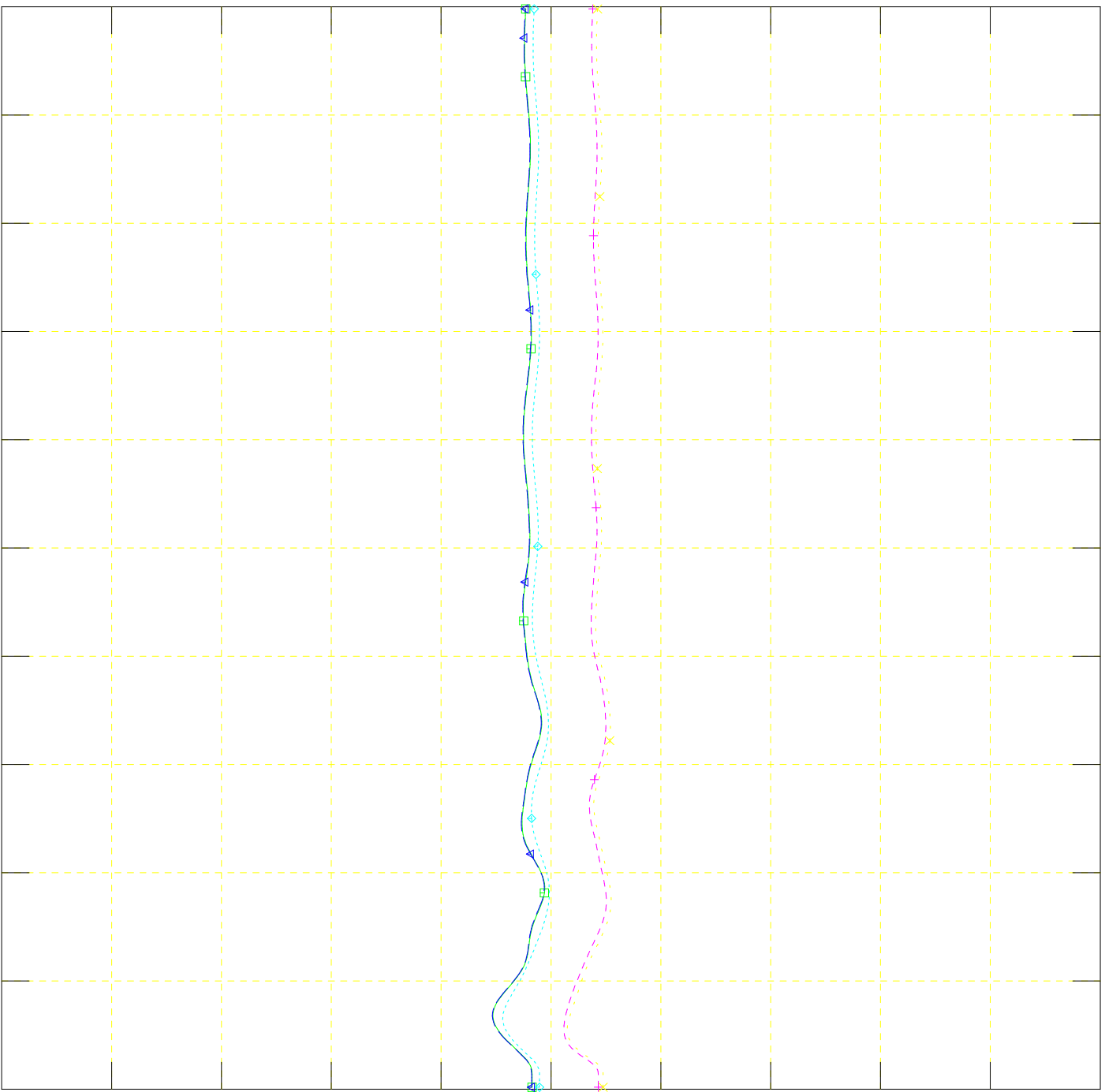
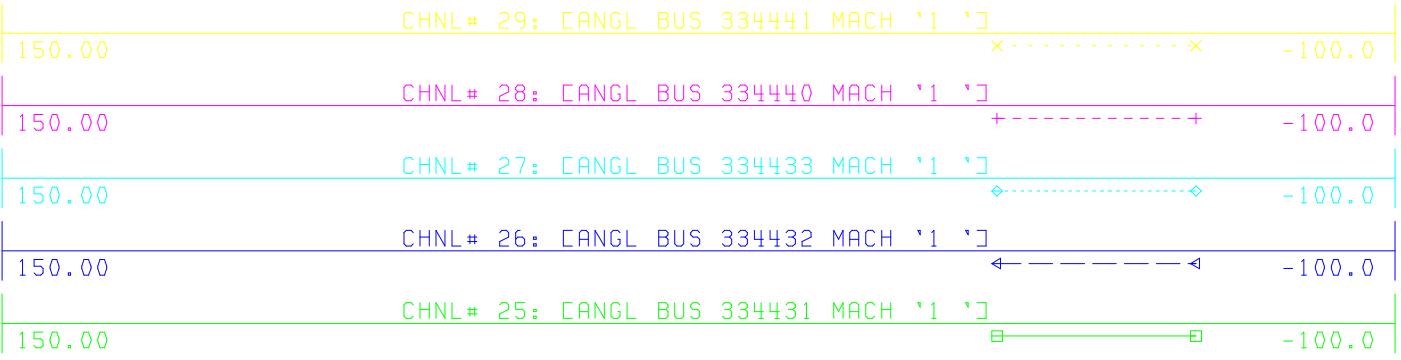
FRI, JUN 13 2008 14:45  
 MACHINE ANGLES - 04



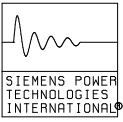
LC  
LC-ALDEN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

FRI, JUN 13 2008 14:45  
MACHINE ANGLES - 05



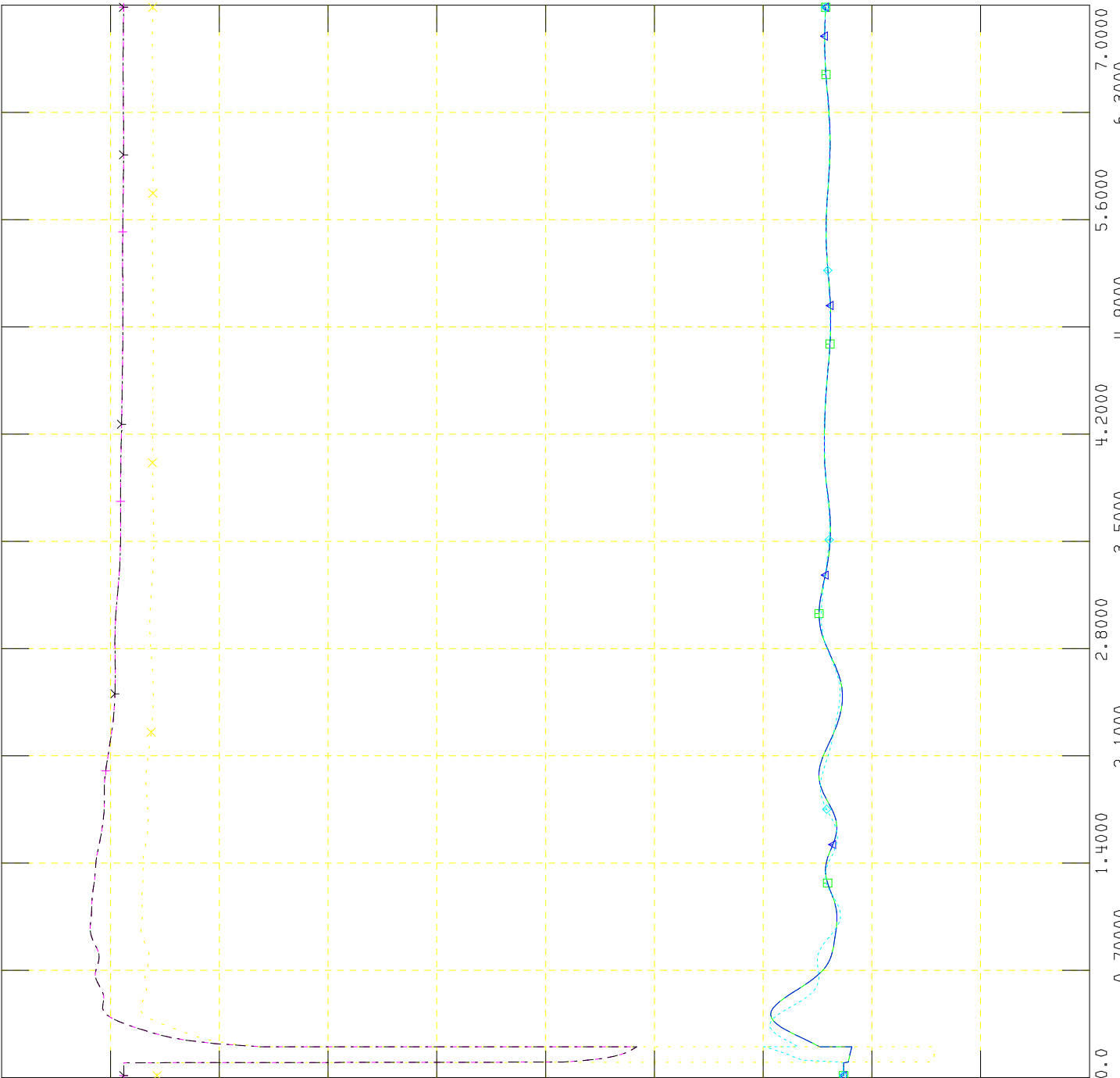




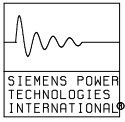
LC  
LC-ALDEN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



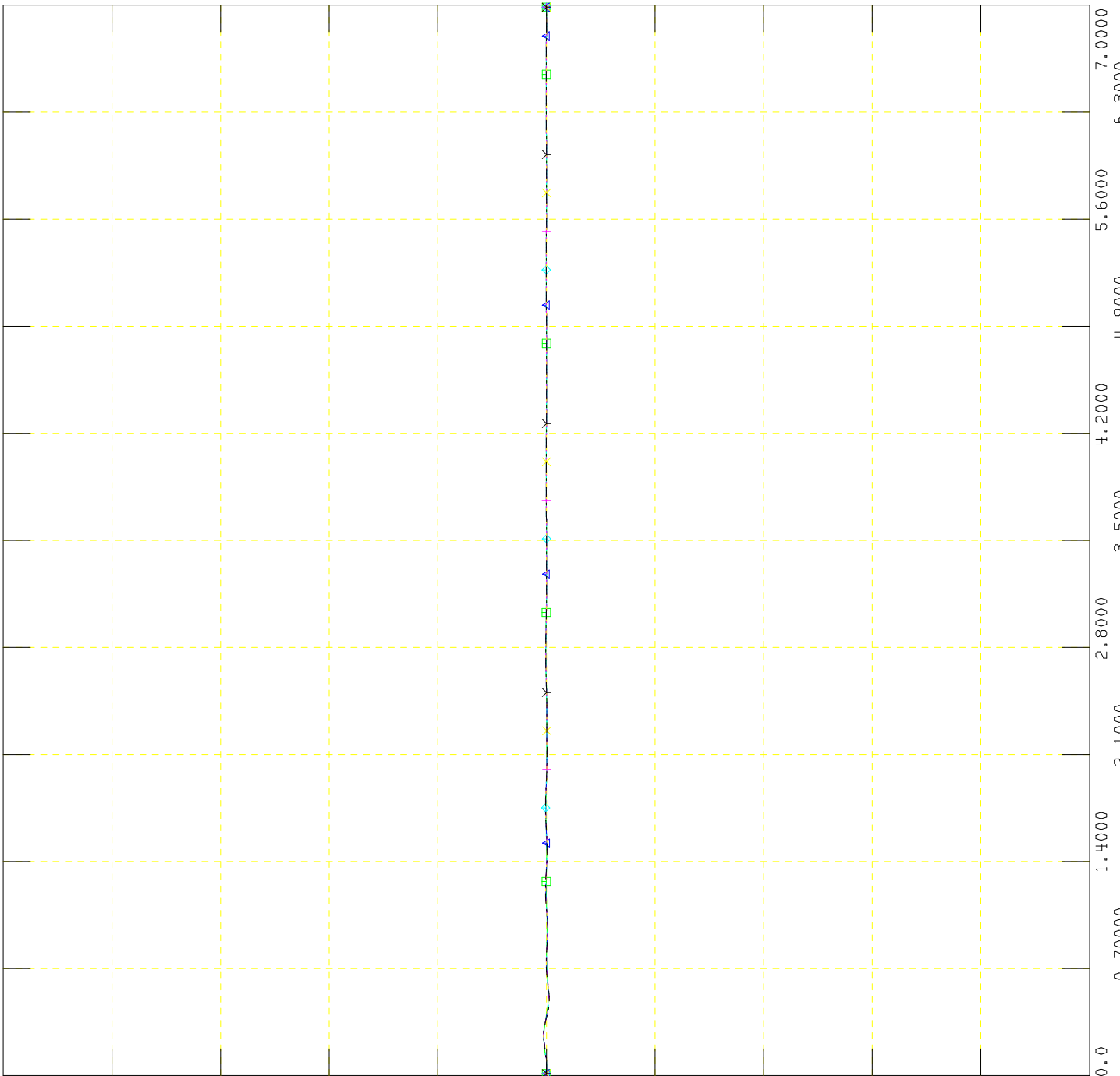
FRI, JUN 13 2008 14:45  
ANG & VOLT - PID-211 GENS



LC  
 LC-ALDEN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

0.50000	CHNL# 41: [FREQ 334065 [4LACON 138.00]]	-0.50000
0.50000	CHNL# 40: [FREQ 334064 [8LNG 413 138.00]]	-0.50000
0.50000	CHNL# 39: [FREQ 334063 [4EVGRN* 138.00]]	-0.50000
0.50000	CHNL# 38: [FREQ 334062 [4TEMCO 138.00]]	-0.50000
0.50000	CHNL# 37: [FREQ 334061 [4GOREE 138.00]]	-0.50000
0.50000	CHNL# 36: [FREQ 334060 [4MT.ZION 138.00]]	-0.50000



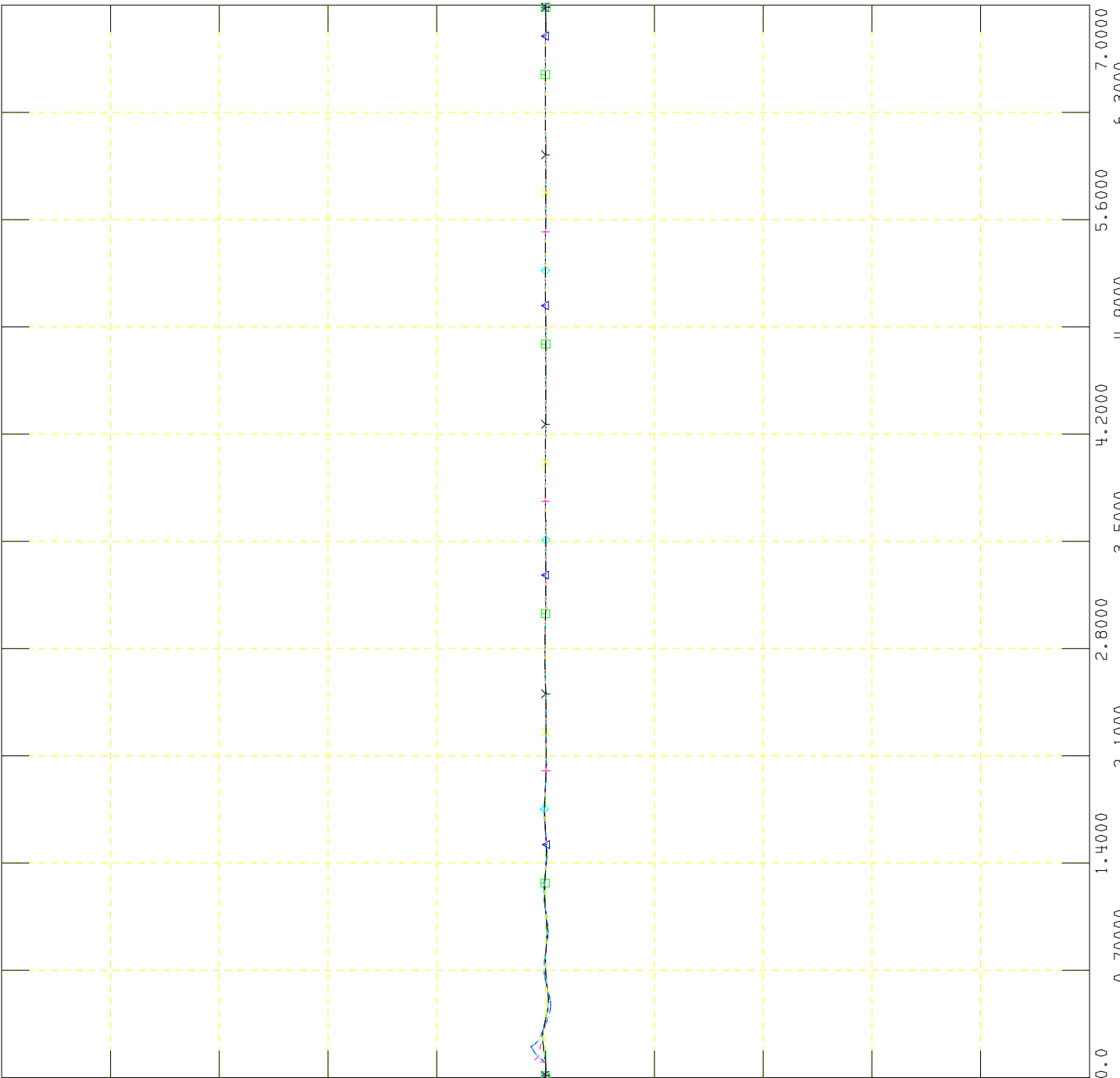
FRI, JUN 13 2008 14:45  
 MACHINE FREQUENCIES - 01



LC  
 LC-ALDEN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



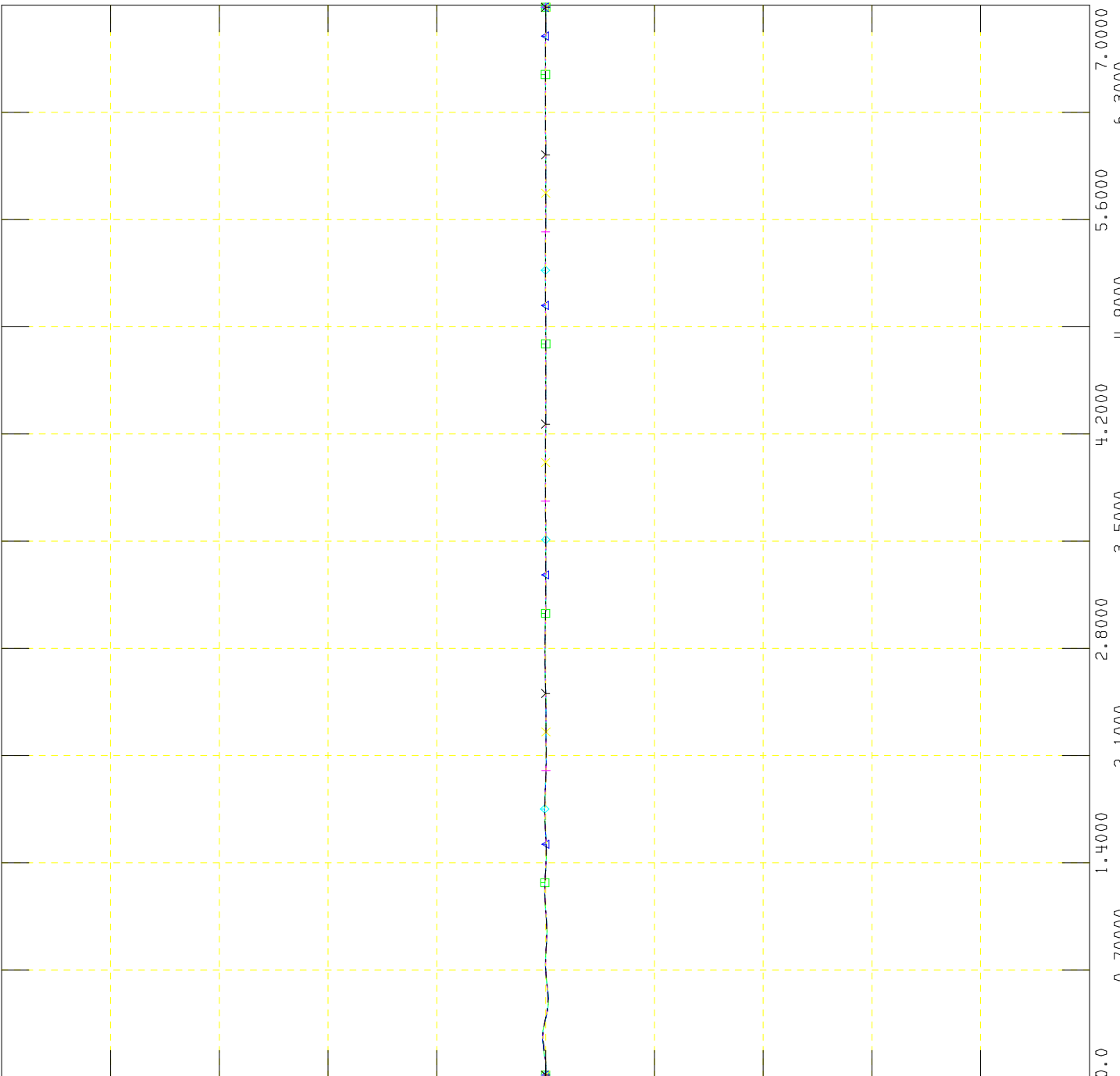
FRI, JUN 13 2008 14:45  
 MACHINE FREQUENCIES - 02



LC  
 LC-ALDEN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



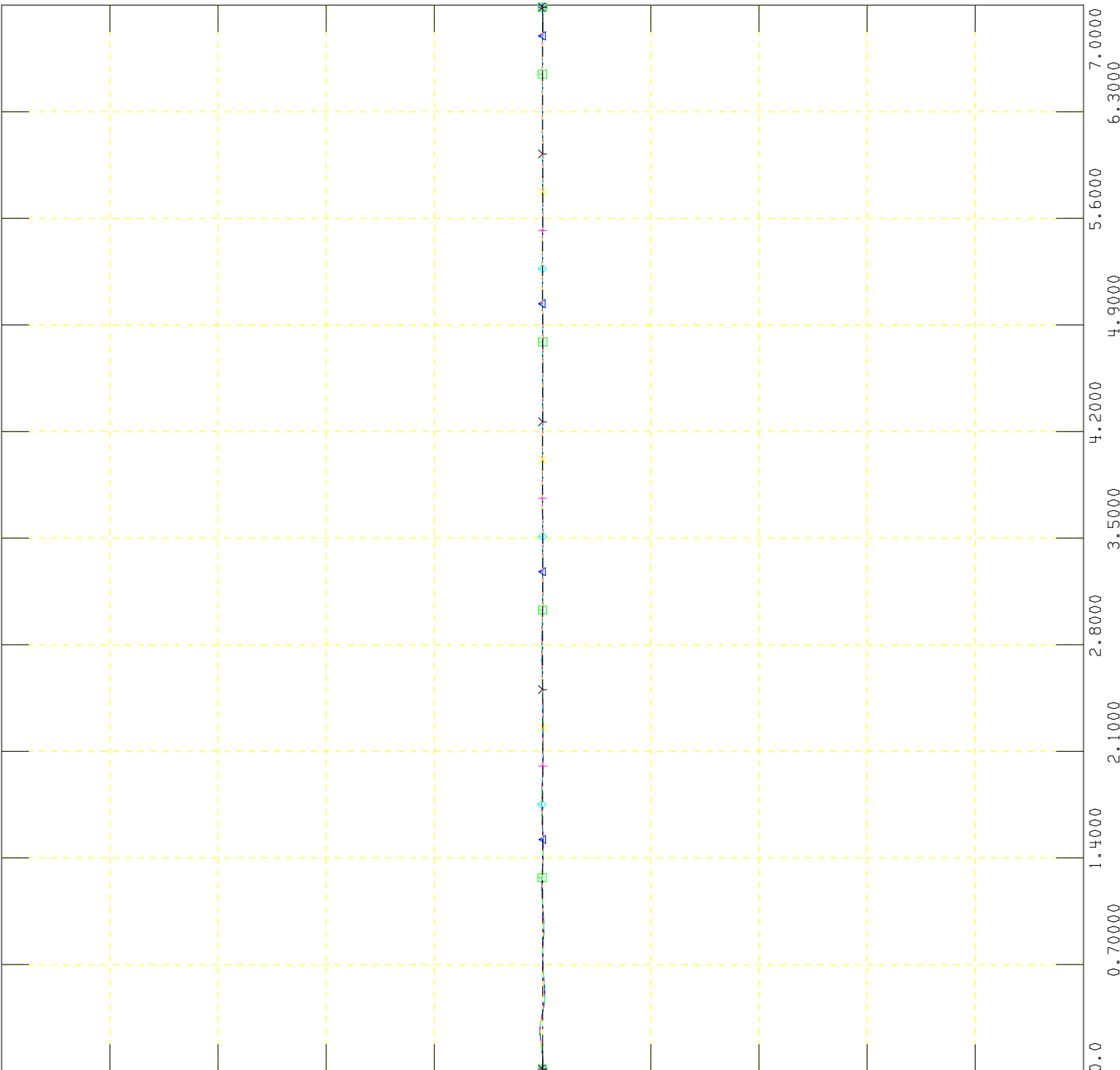
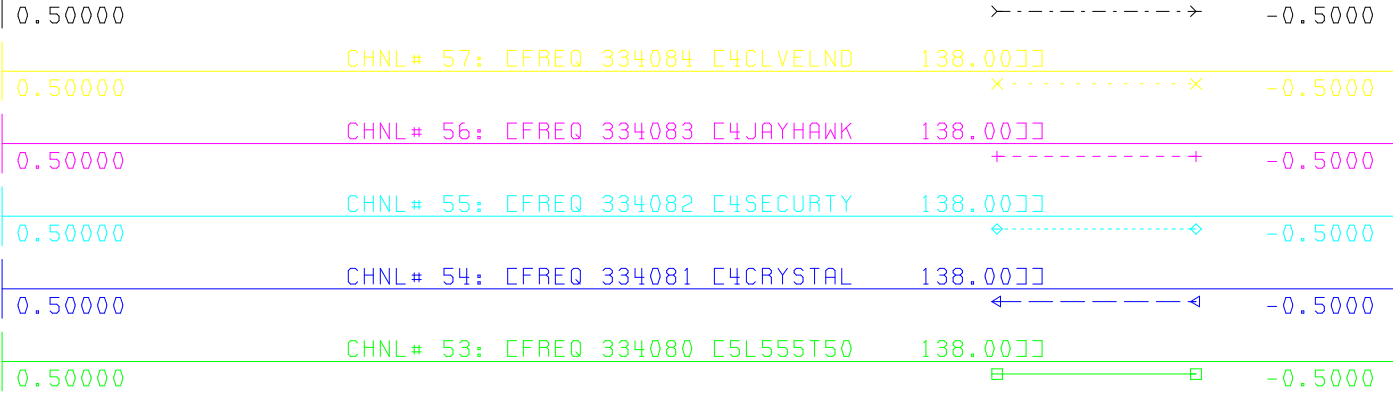
FRI, JUN 13 2008 14:45  
 MACHINE FREQUENCIES - 03



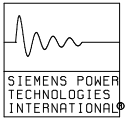
LC  
 LC-ALDEN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 14:45  
 MACHINE FREQUENCIES - 04

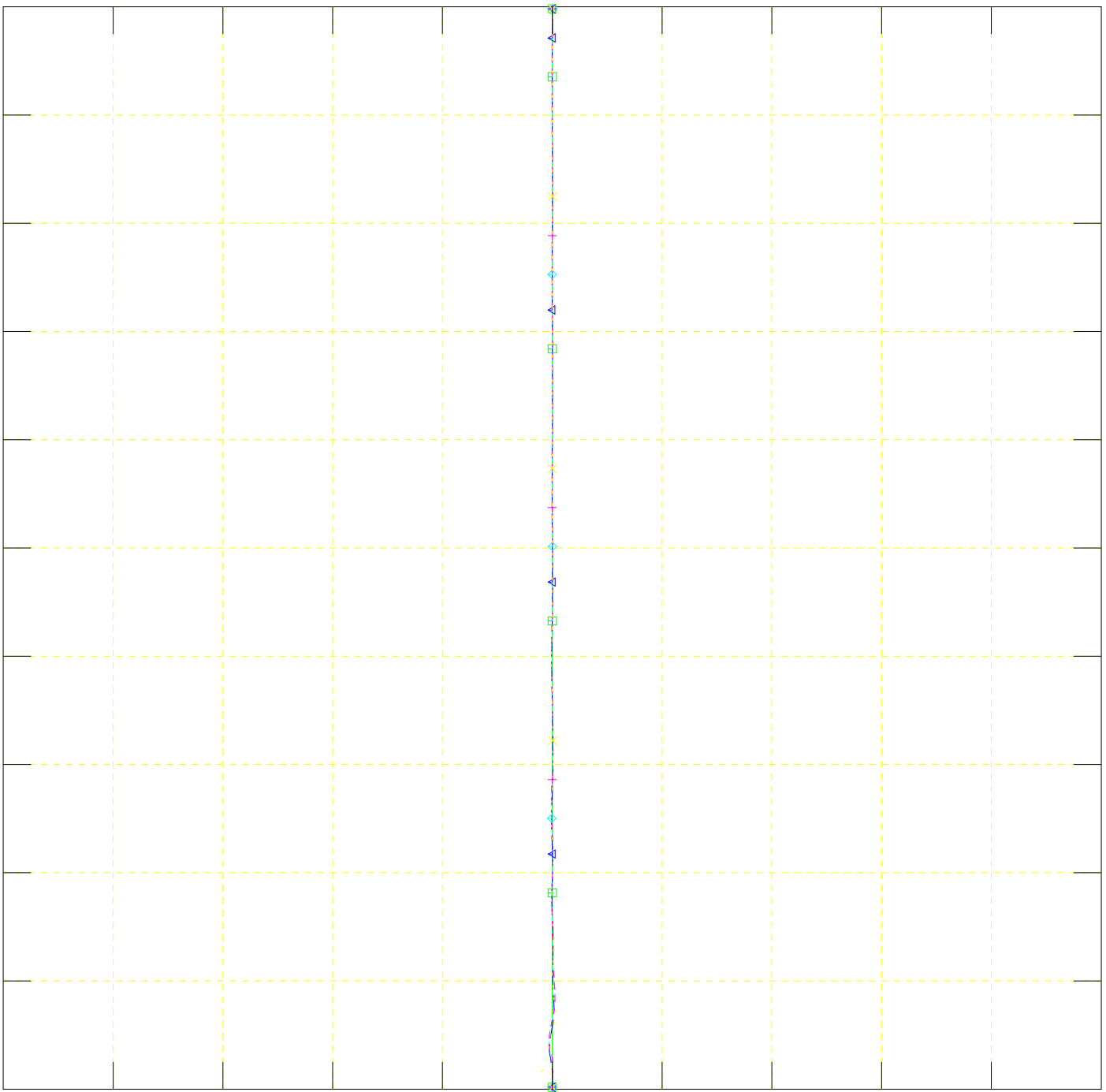


LC  
LC-ALDEN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

FRI, JUN 13 2008 14:45  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value	Symbol
CHNL# 63	CFREQ 99183 EG3PID211	18.000	x
CHNL# 62	CFREQ 99182 EG2PID211	18.000	+
CHNL# 61	CFREQ 99181 EG1PID211	18.000	◇
CHNL# 60	CFREQ 334090 L4ALDEN	138.00	△
CHNL# 59	CFREQ 334086 L6CONROE	230.00	□



0.50000  
-0.50000  
0.50000  
-0.50000  
0.50000  
-0.50000  
0.50000  
-0.50000

7.0000  
6.3000  
5.6000  
4.9000  
4.2000  
3.5000  
2.8000  
2.1000  
1.4000  
0.70000  
0.0

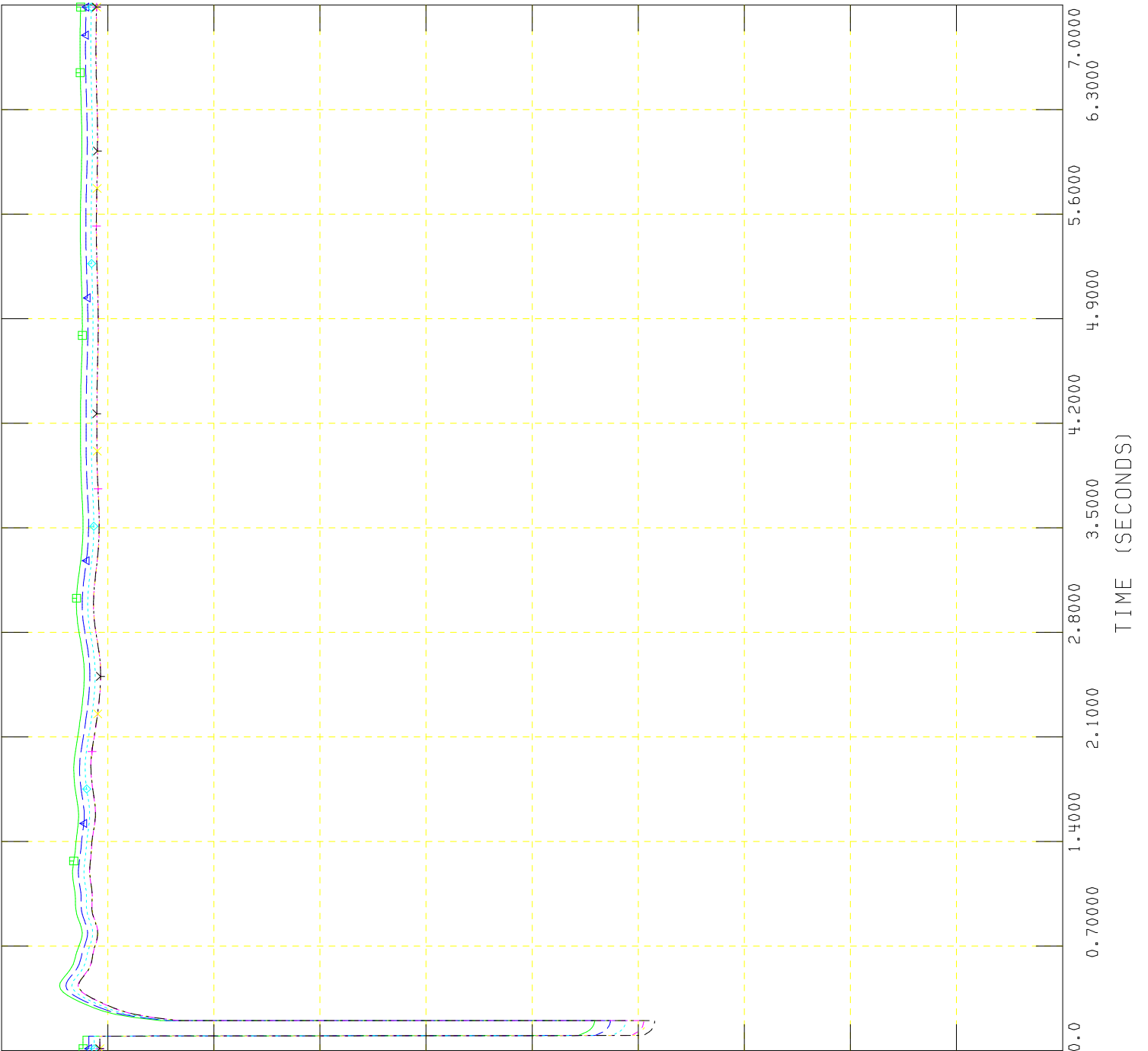
TIME (SECONDS)



LC  
 LC-ALDEN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



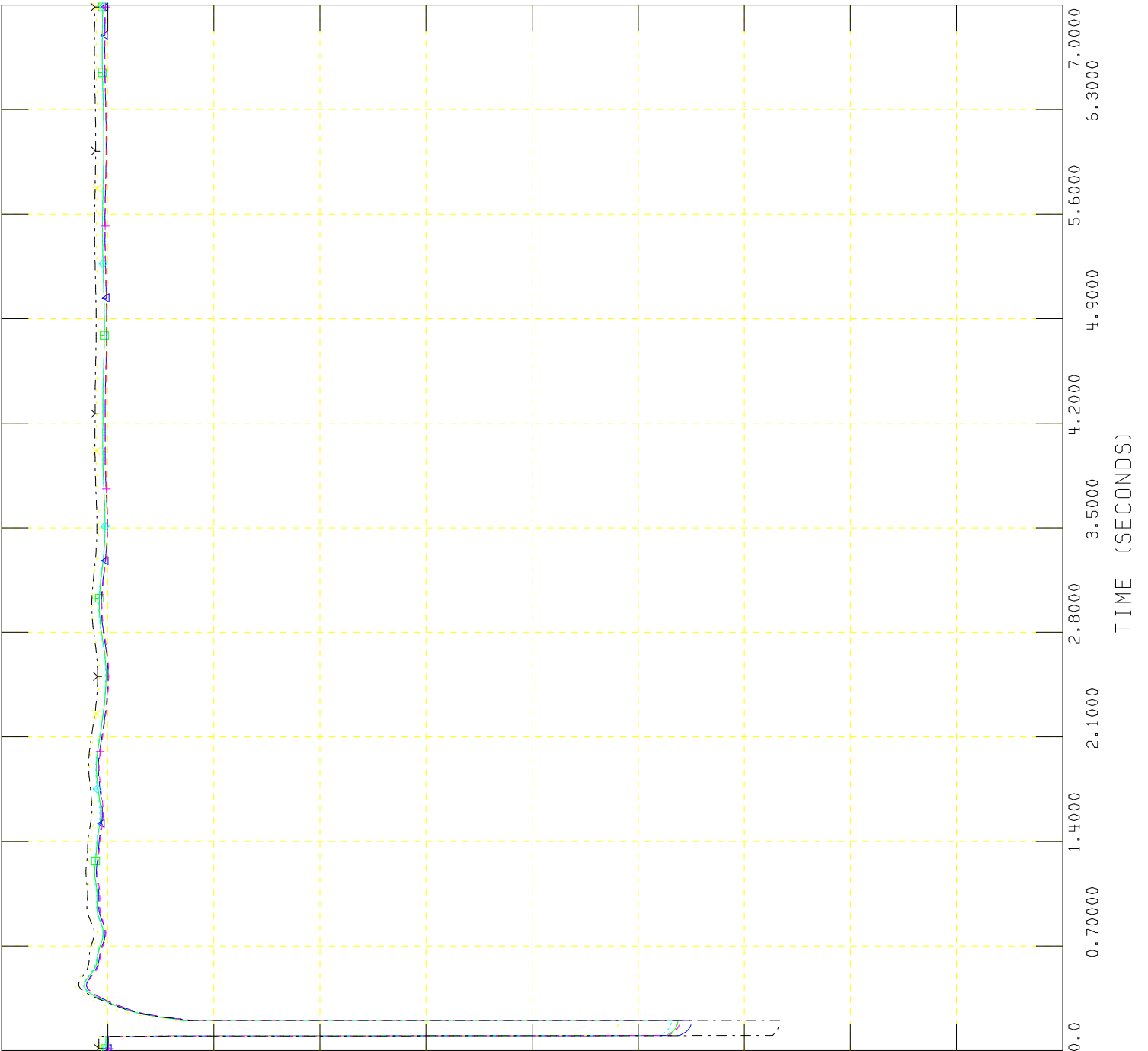
FRI, JUN 13 2008 14:45  
 BUS VOLTAGES - 01



LC  
 LC-ALDEN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



FRI, JUN 13 2008 14:45  
 BUS VOLTAGES - 02

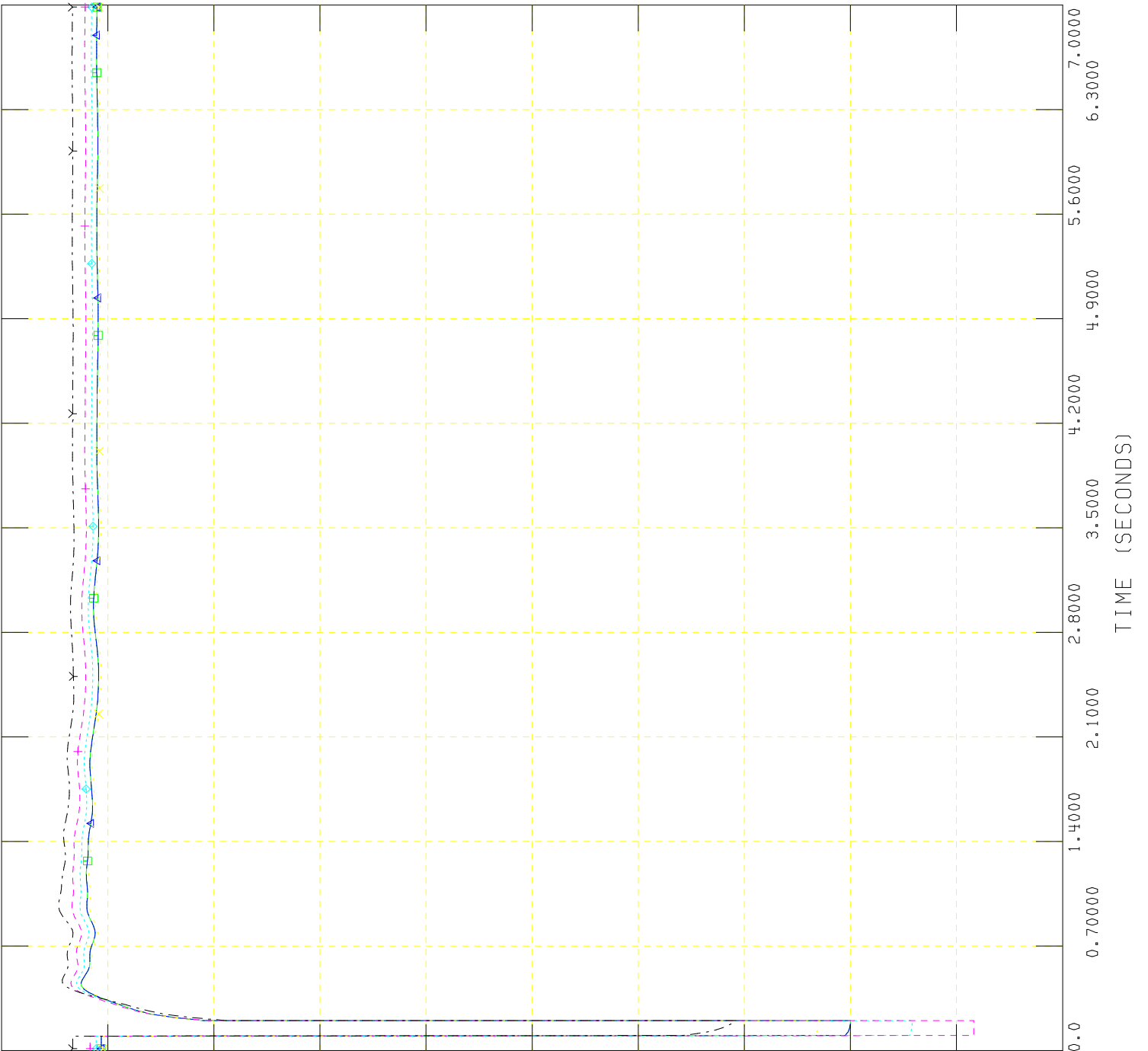




LC  
LC-ALDEN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

Channel	Label	Value
CHNL# 81	[VOLT 334070 [G1LEWIS 22.000]]	22.000
CHNL# 80	[VOLT 334066 [4GEORGIA 138.00]]	138.00
CHNL# 79	[VOLT 334065 [4LACON 138.00]]	138.00
CHNL# 78	[VOLT 334064 [8LNG 413 138.00]]	138.00
CHNL# 77	[VOLT 334063 [4EVGRN* 138.00]]	138.00
CHNL# 76	[VOLT 334062 [4TEMCO 138.00]]	138.00



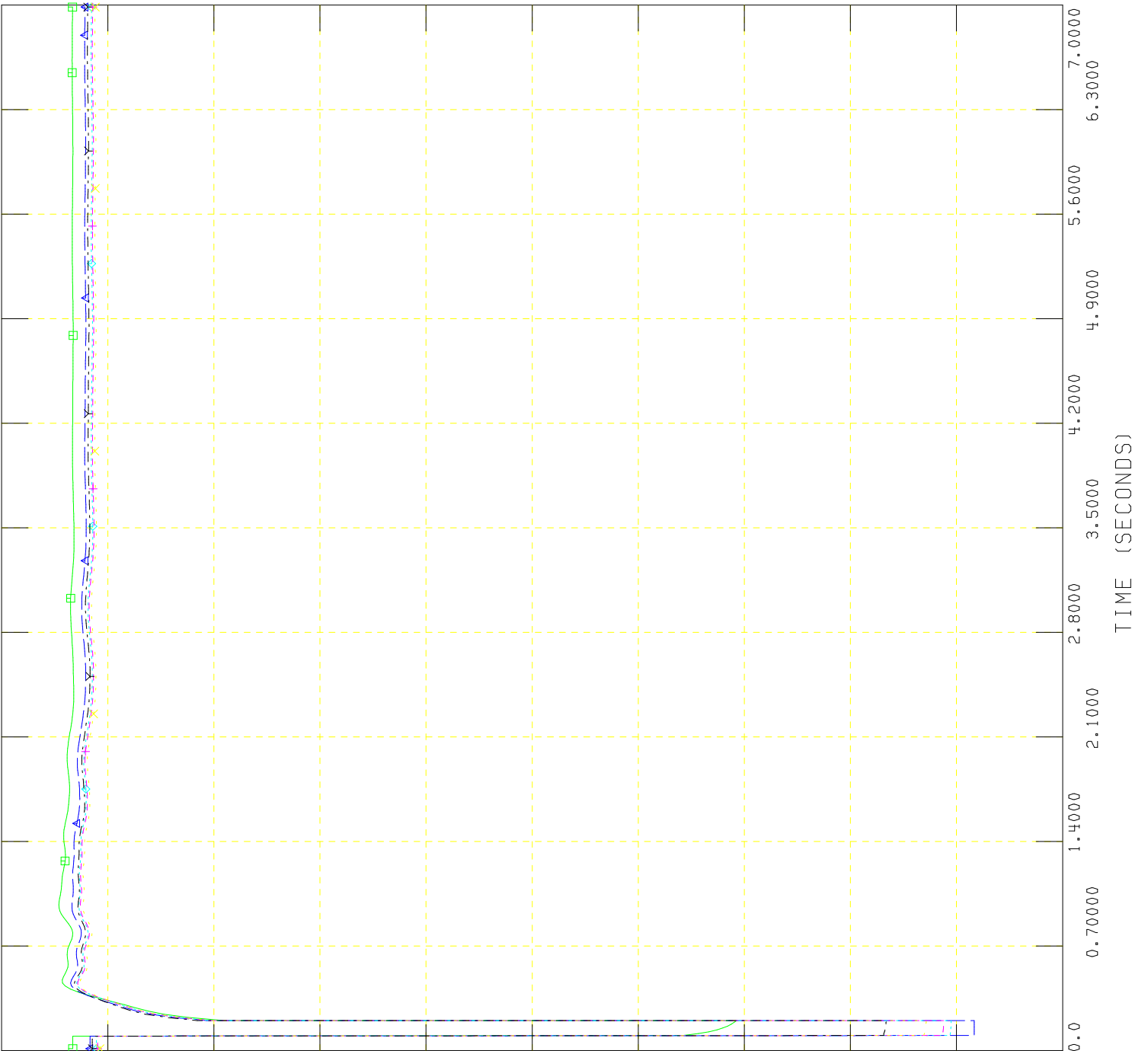
FRI, JUN 13 2008 14:45  
BUS VOLTAGES - 03



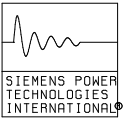
LC  
LC-ALDEN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



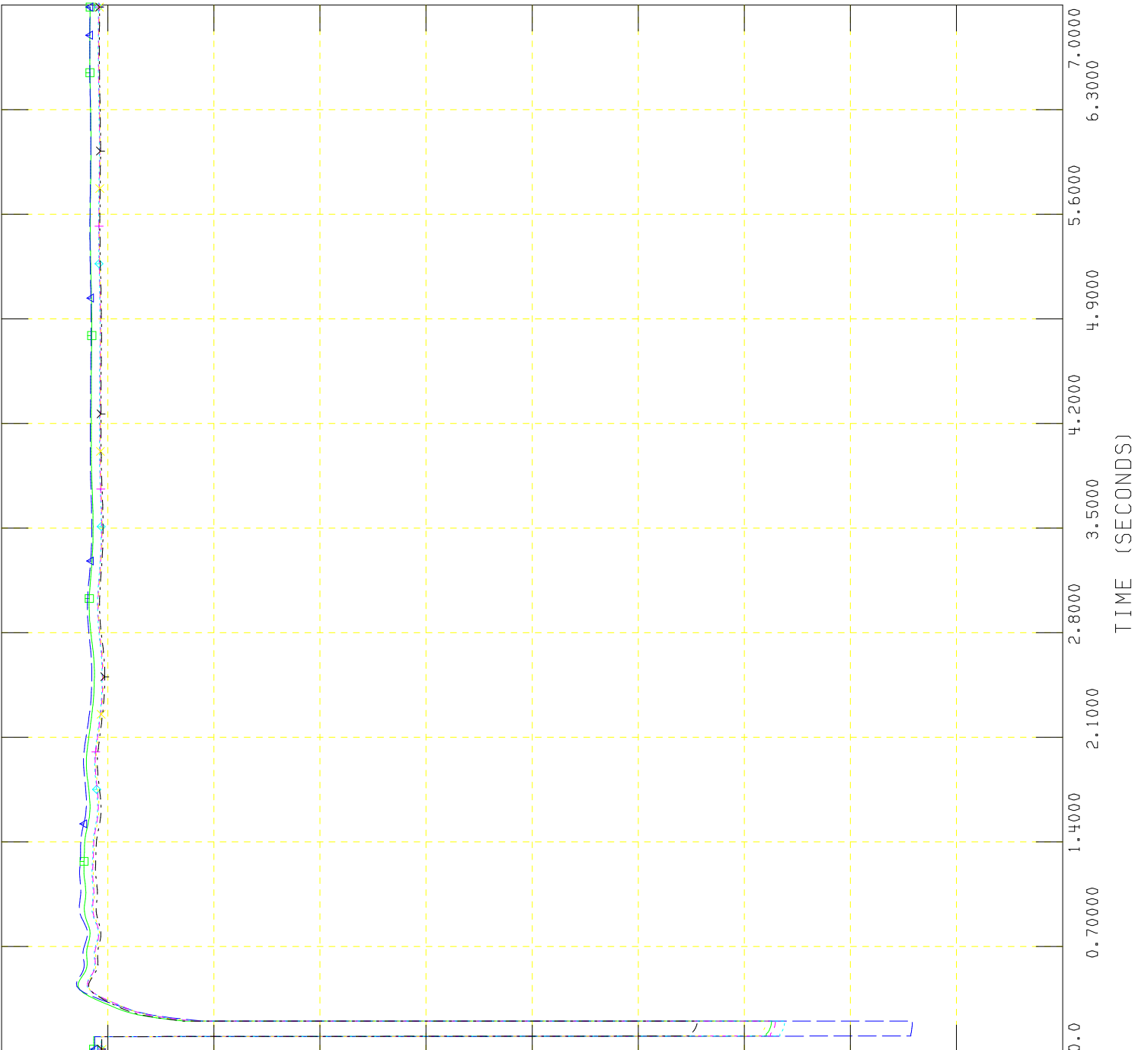
FRI, JUN 13 2008 14:45  
BUS VOLTAGES - 04



LC  
LC-ALDEN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



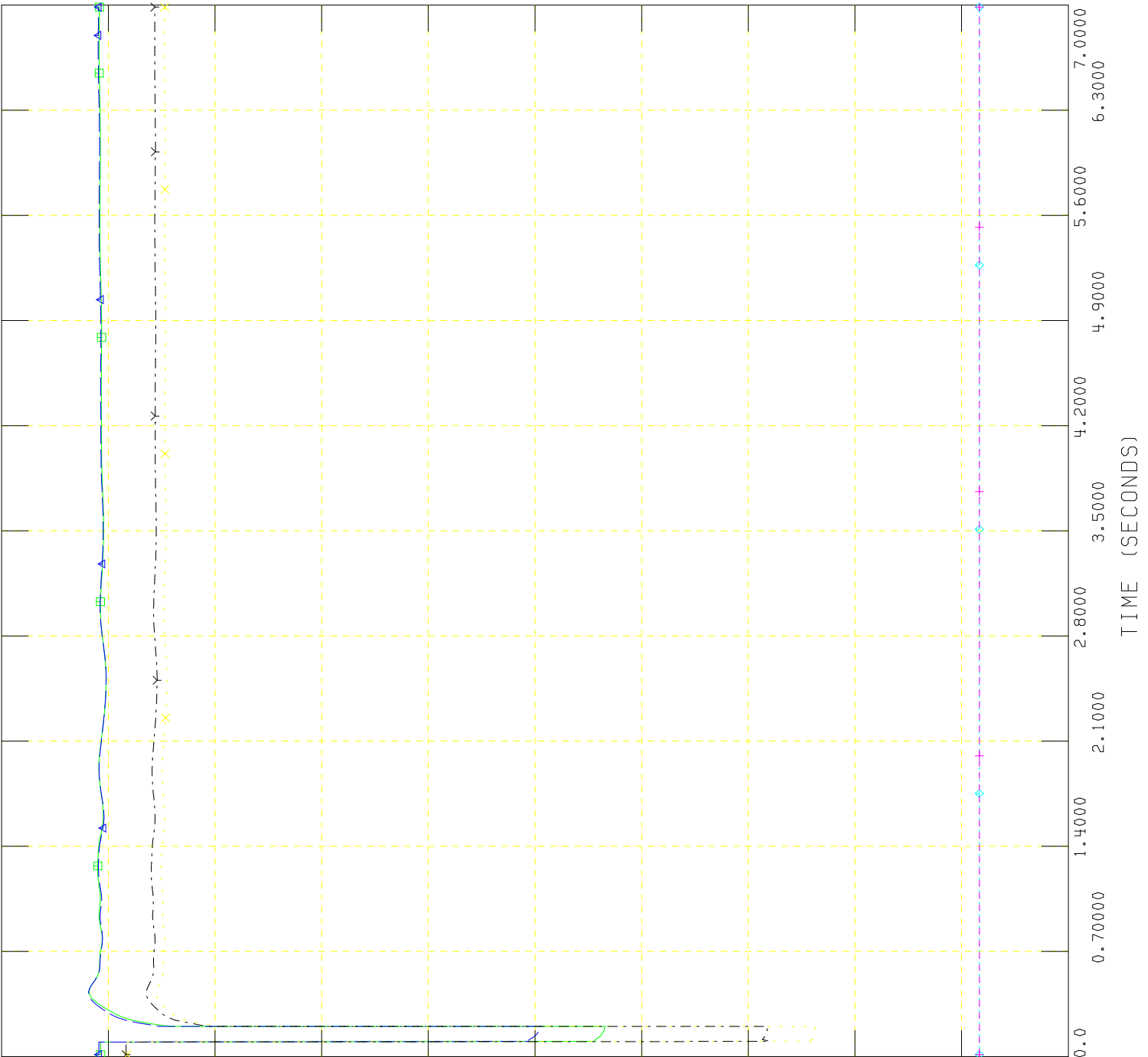
FRI, JUN 13 2008 14:45  
BUS VOLTAGES - 05



LC  
 LC-ALDEN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



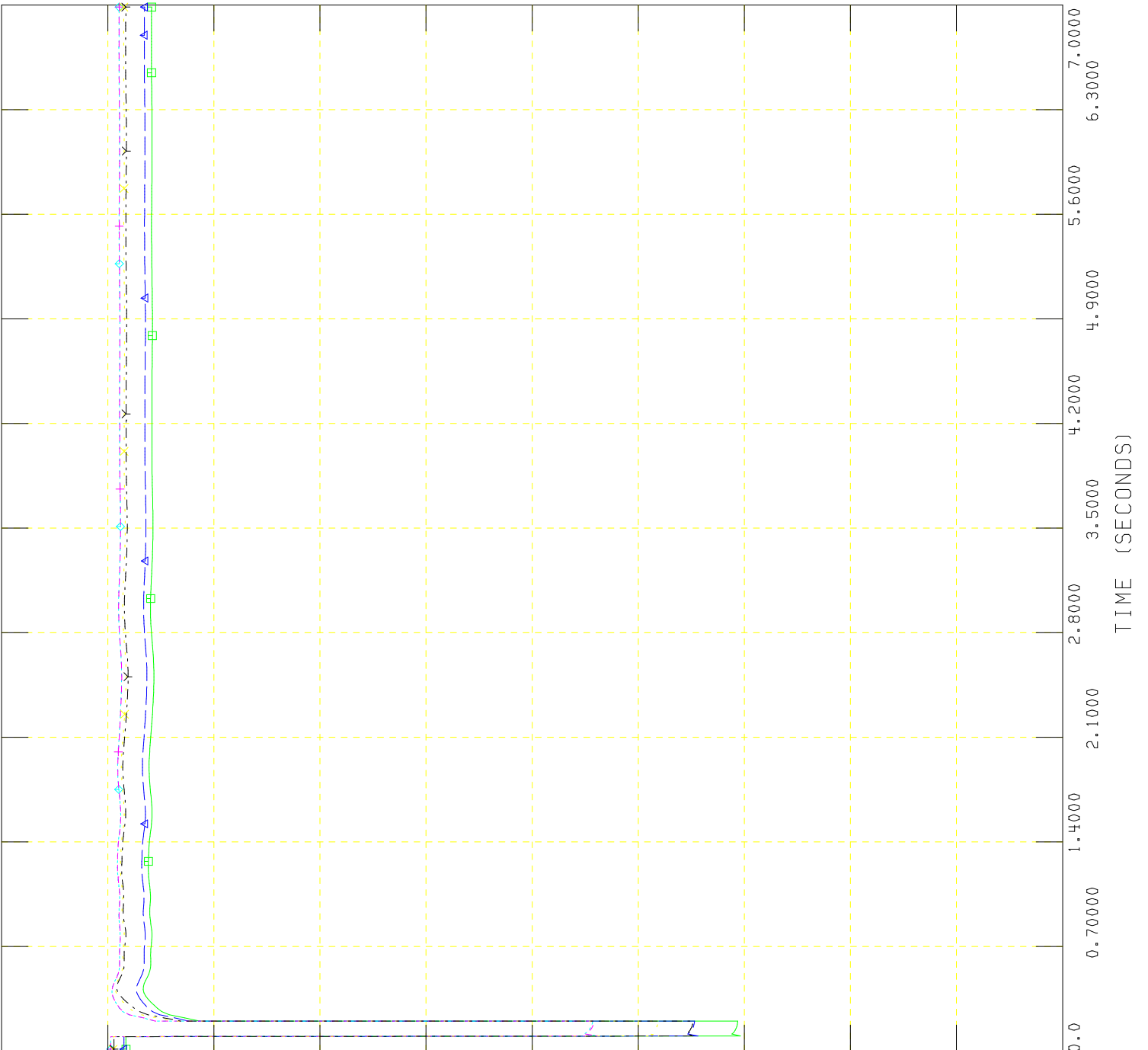
FRI, JUN 13 2008 14:45  
 BUS VOLTAGES - 06



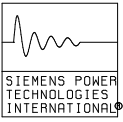
LC  
LC-ALDEN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



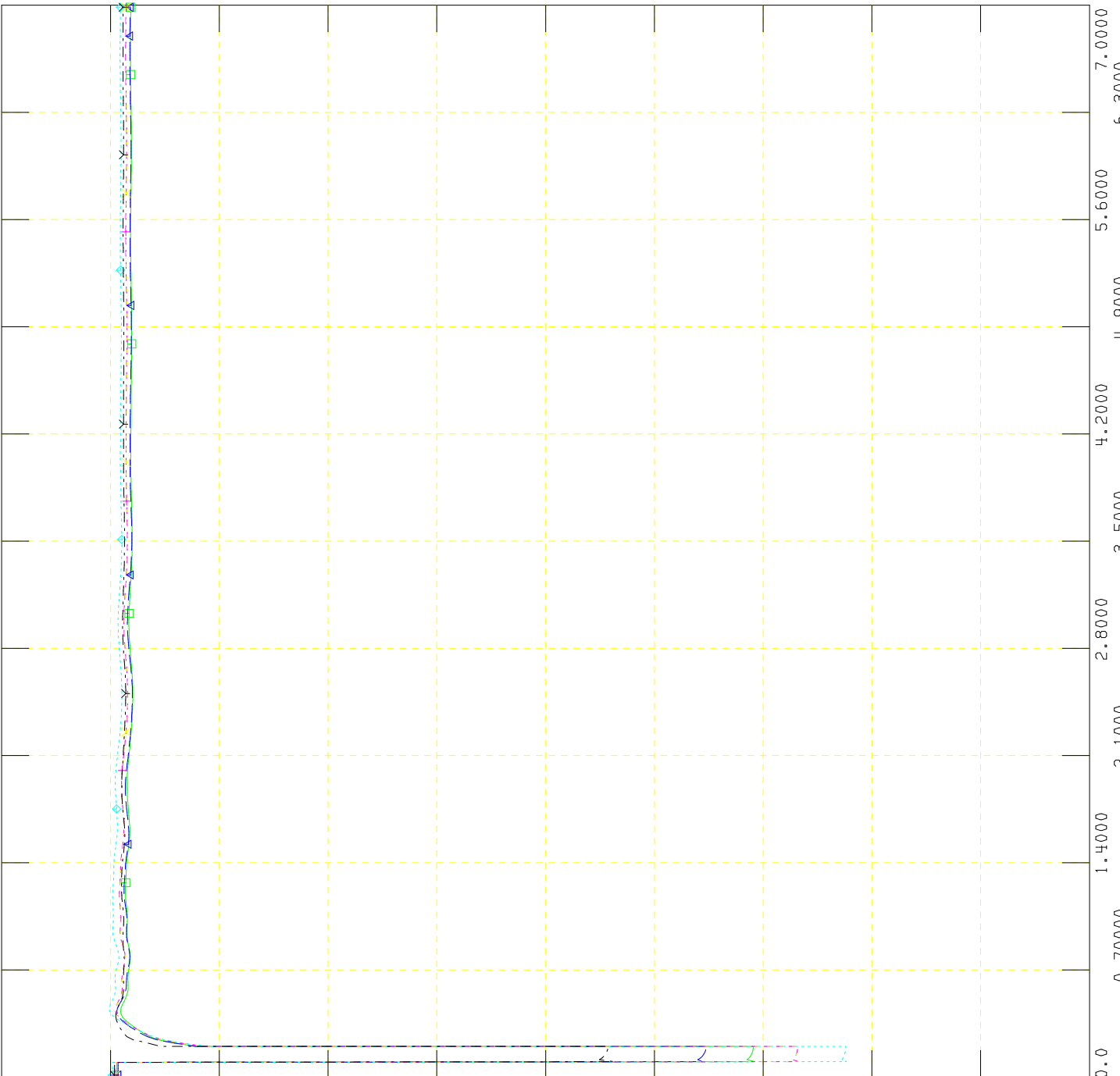
FRI, JUN 13 2008 14:45  
BUS VOLTAGES - 07



LC  
 LC-ALDEN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Alden-2.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



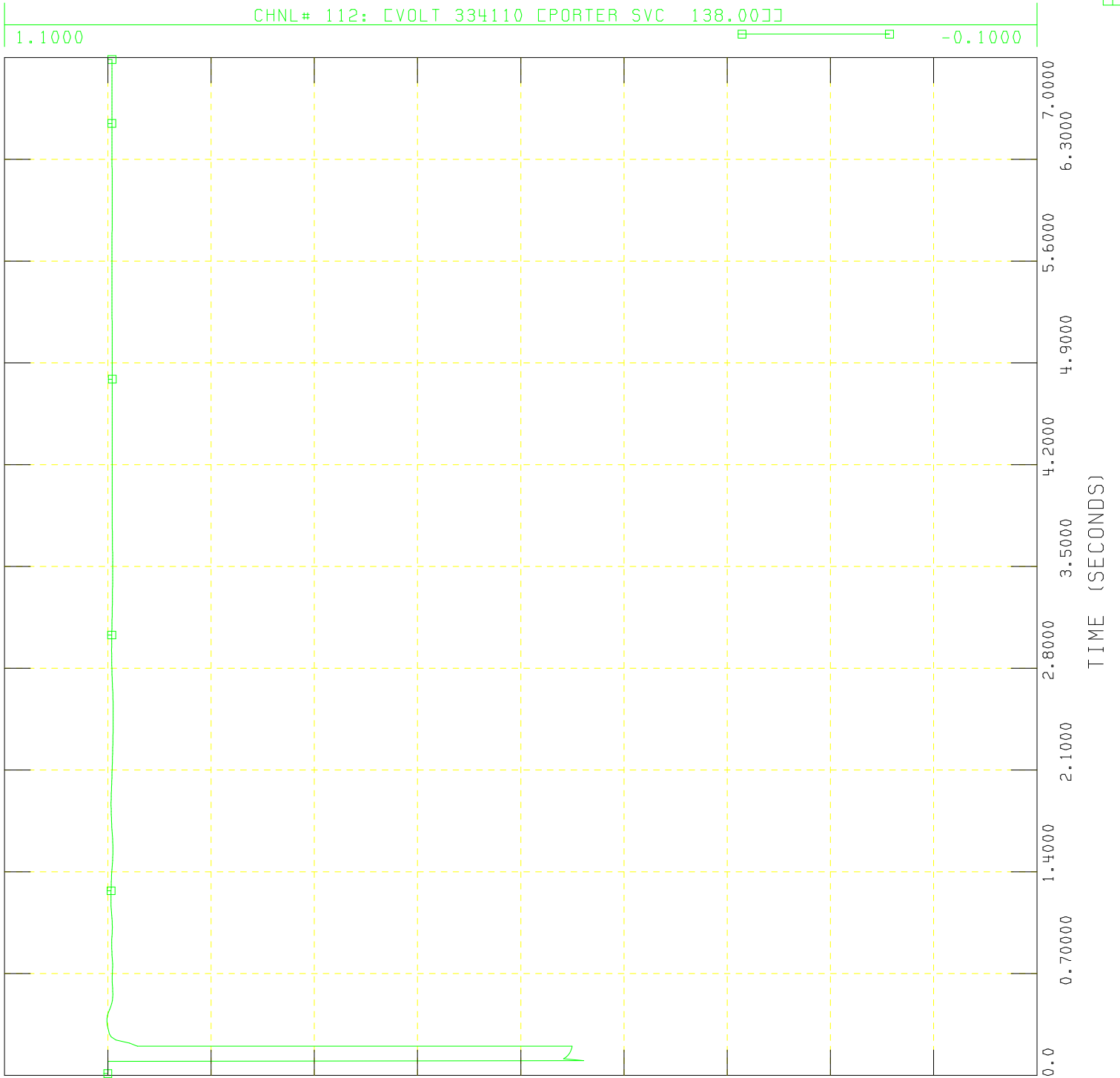
FRI, JUN 13 2008 14:45  
 BUS VOLTAGES - 08



LC  
LC-ALDEN  
CLEAR LOCAL AND REMOVE IN 4CYC

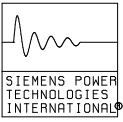
FILE: C:\Southwest Power Pool\LC-Alden-2.out

FRI, JUN 13 2008 14:45  
BUS VOLTAGES - 09



**FAULT 3**  
**Lewis Creek – Conroe Bulk 138 kV**  
**Normal Clearing Times**

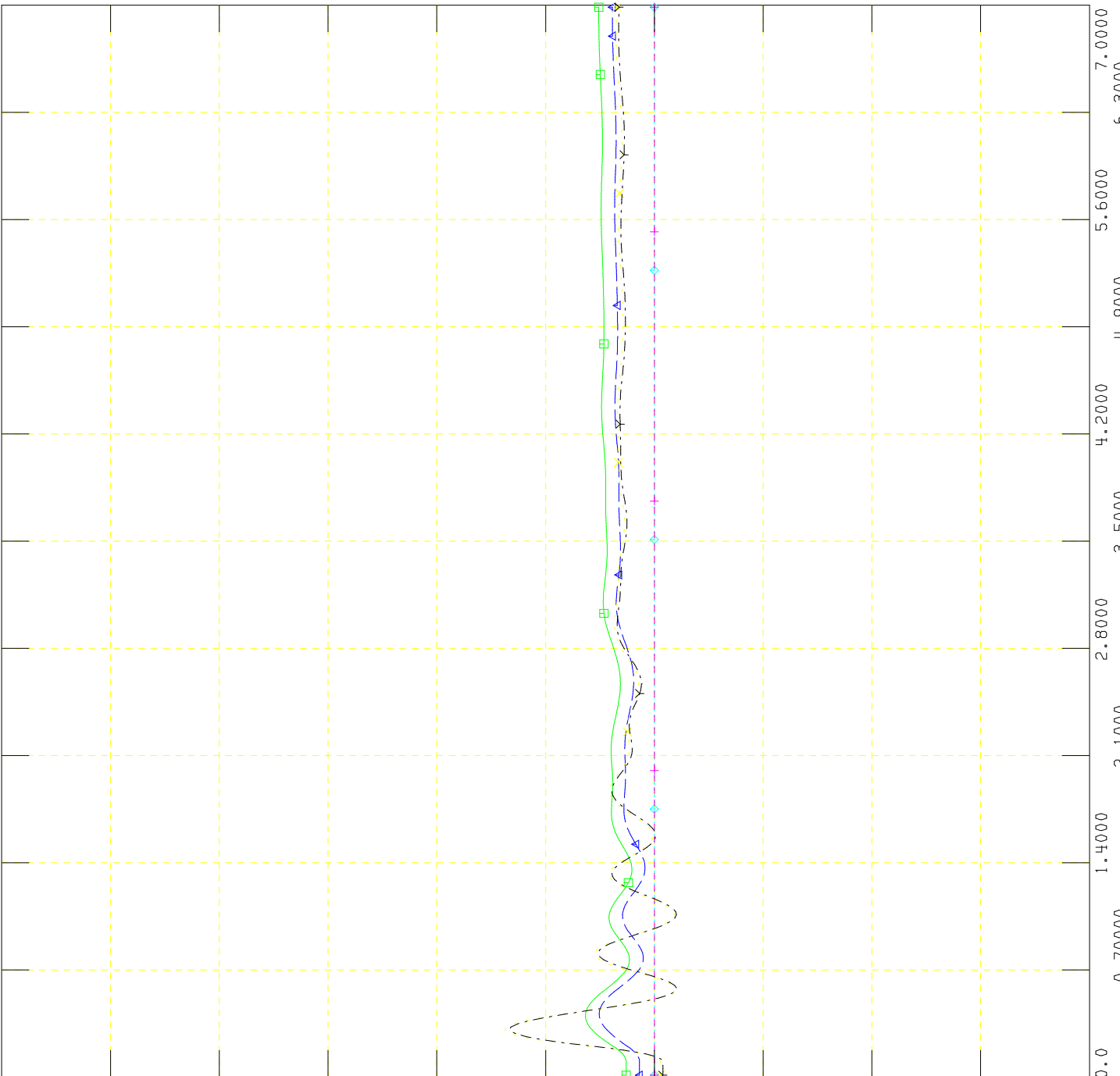




LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

Channel	Label	Value
6	CHANL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHANL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHANL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHANL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHANL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHANL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



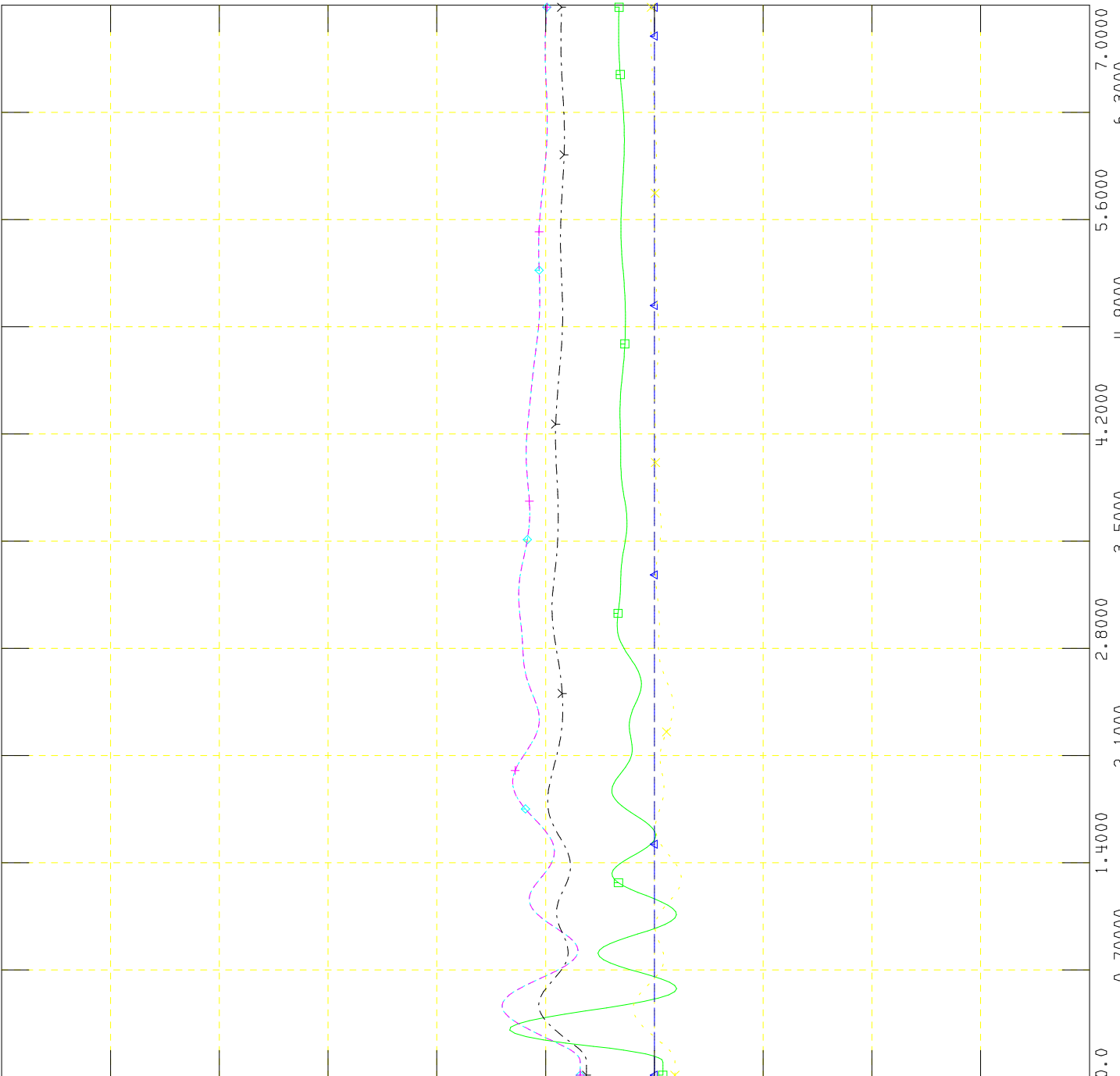
FRI, JUN 13 2008 14:47  
MACHINE ANGLES - 01



LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

Value	Channel Label	Value
150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

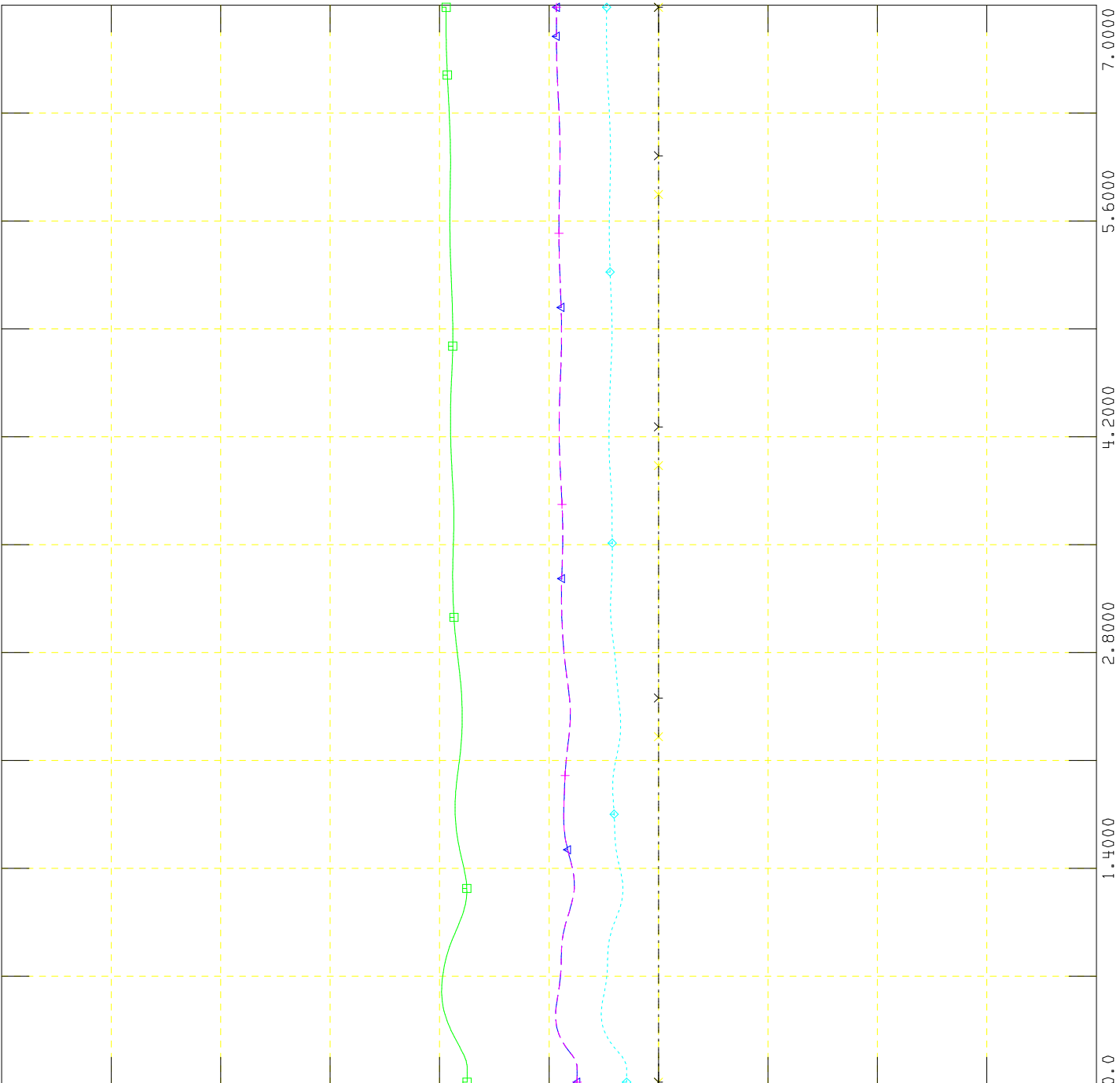
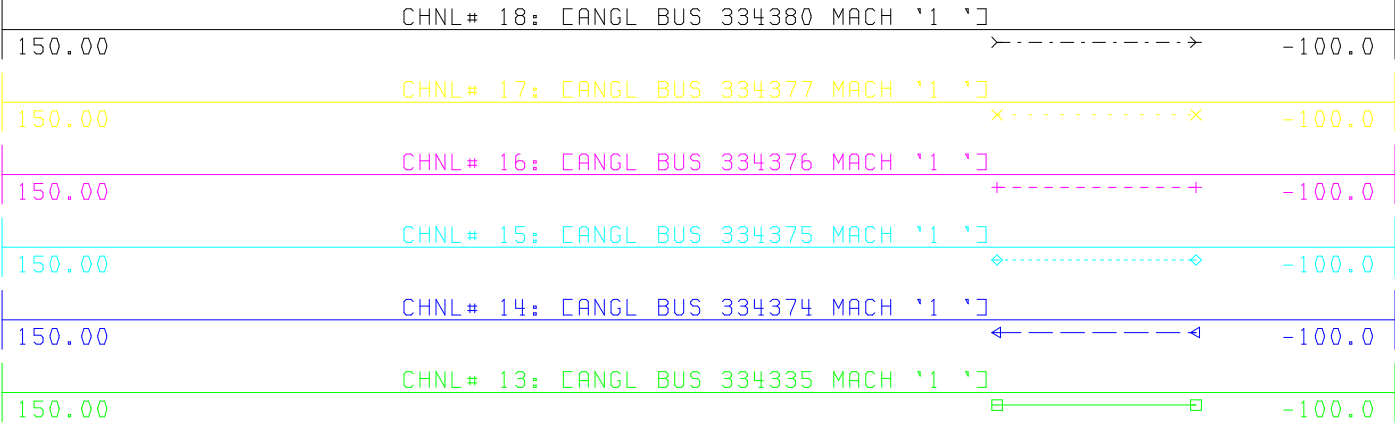


FRI, JUN 13 2008 14:47  
MACHINE ANGLES - 02



LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out



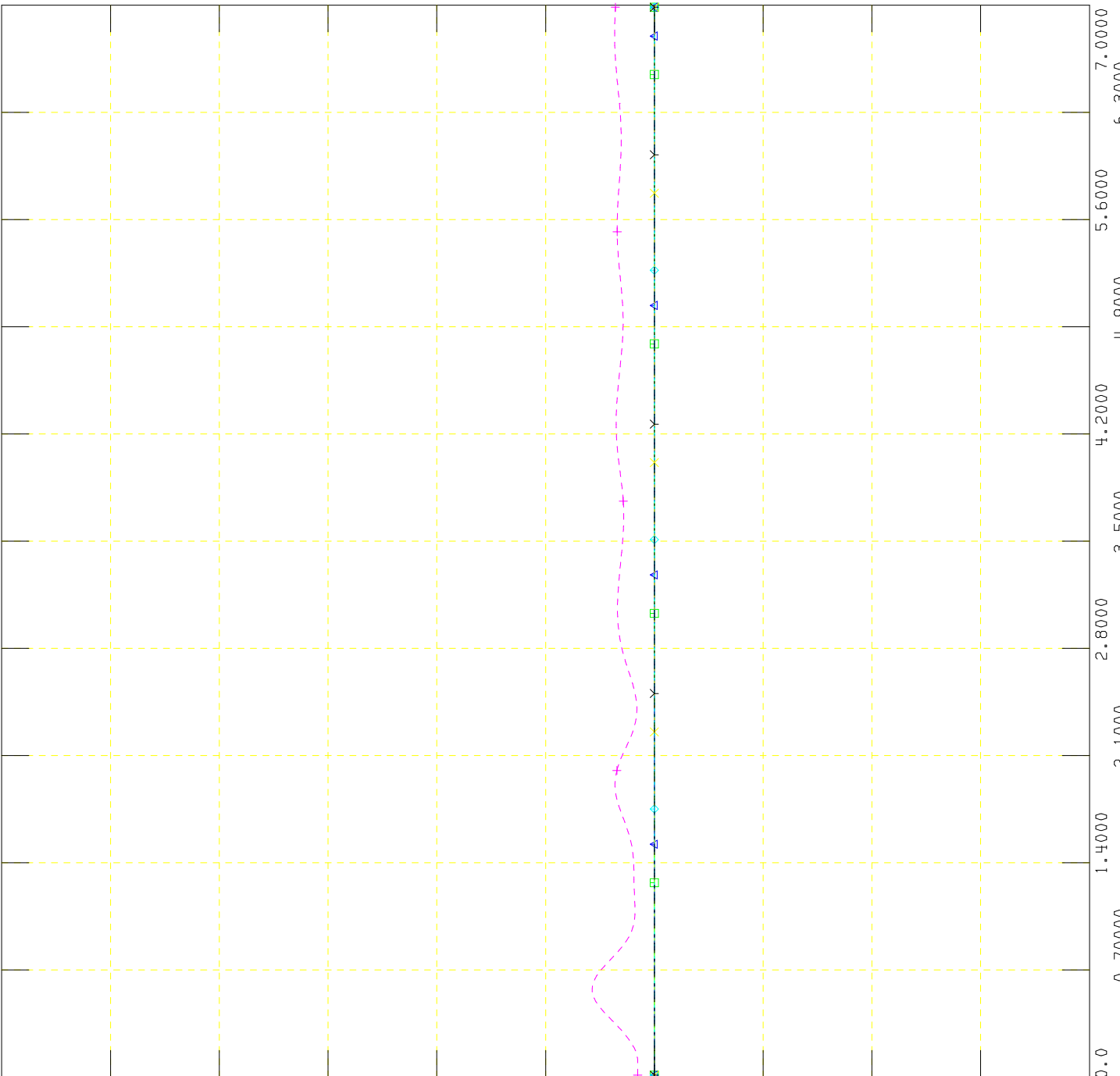
FRI, JUN 13 2008 14:47  
MACHINE ANGLES - 03



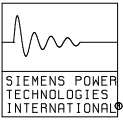
LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



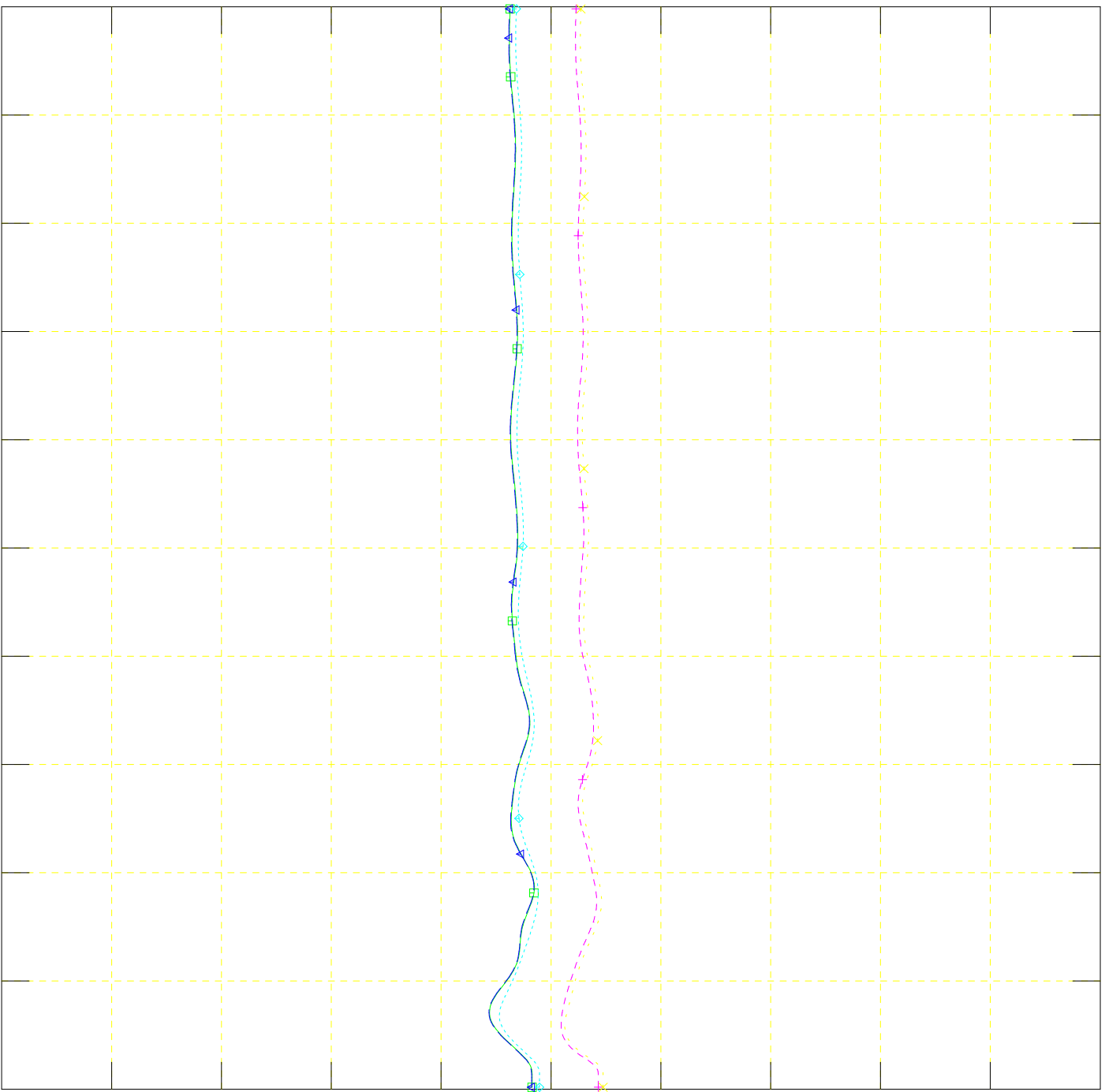
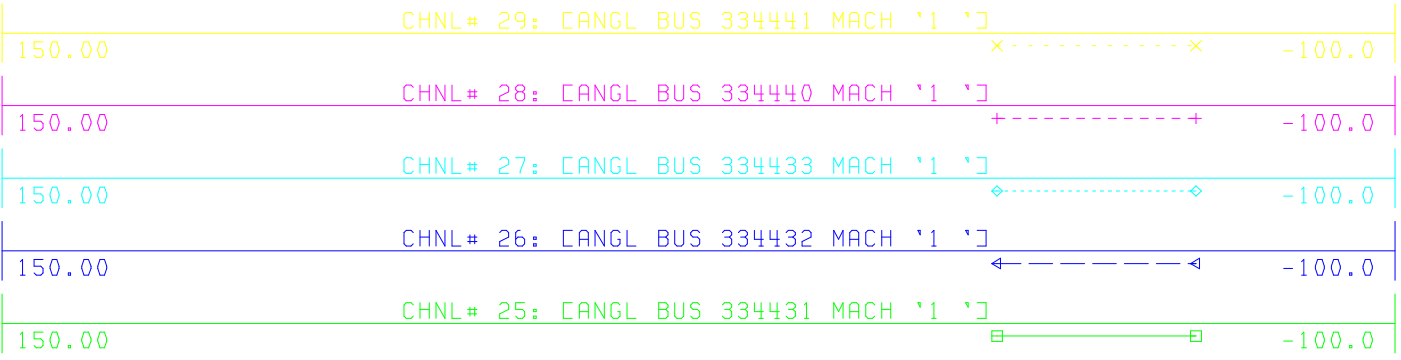
FRI, JUN 13 2008 14:47  
MACHINE ANGLES - 04

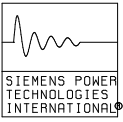


LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

FRI, JUN 13 2008 14:47  
MACHINE ANGLES - 05

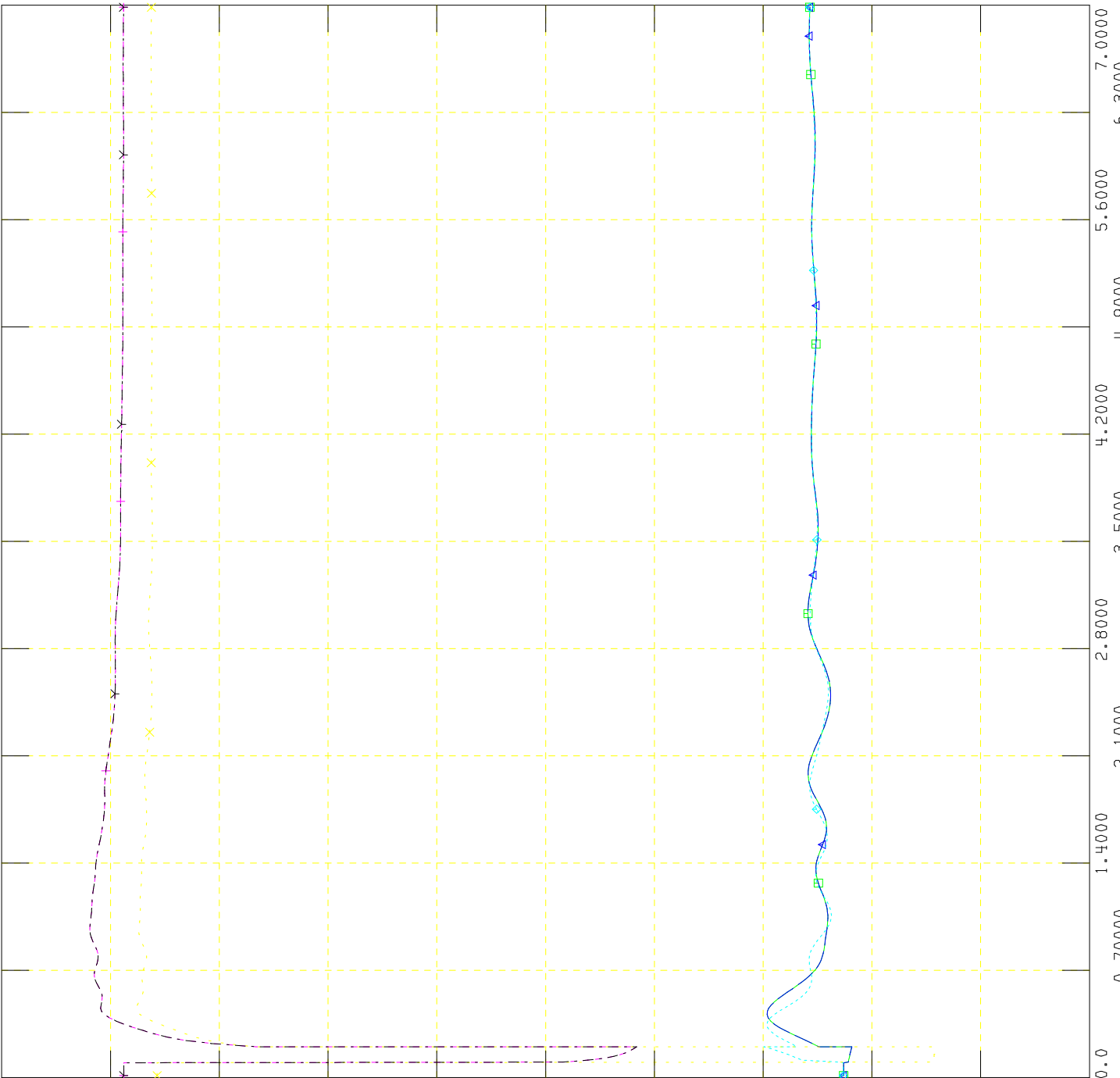




LC  
 LC-CONROEB  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



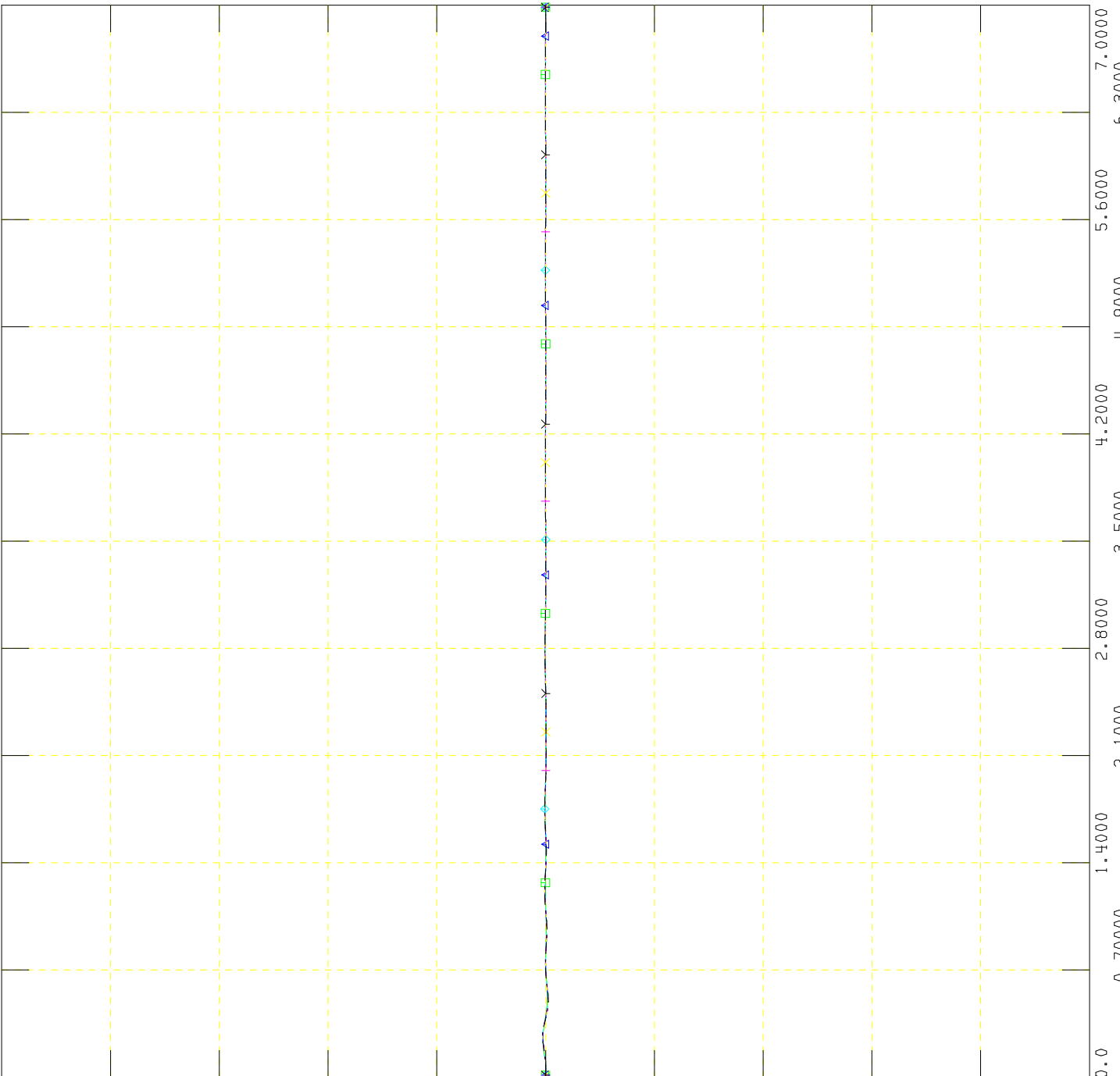
FRI, JUN 13 2008 14:47  
 ANG & VOLT - PID-211 GENS



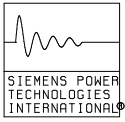
LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

Channel	FREQ	Value
CHNL# 41	CFREQ 334065 C4LACON	138.00
CHNL# 40	CFREQ 334064 C8LNG 413	138.00
CHNL# 39	CFREQ 334063 C4EVGRN*	138.00
CHNL# 38	CFREQ 334062 C4TEMCO	138.00
CHNL# 37	CFREQ 334061 C4GOREE	138.00
CHNL# 36	CFREQ 334060 C4MT.ZION	138.00



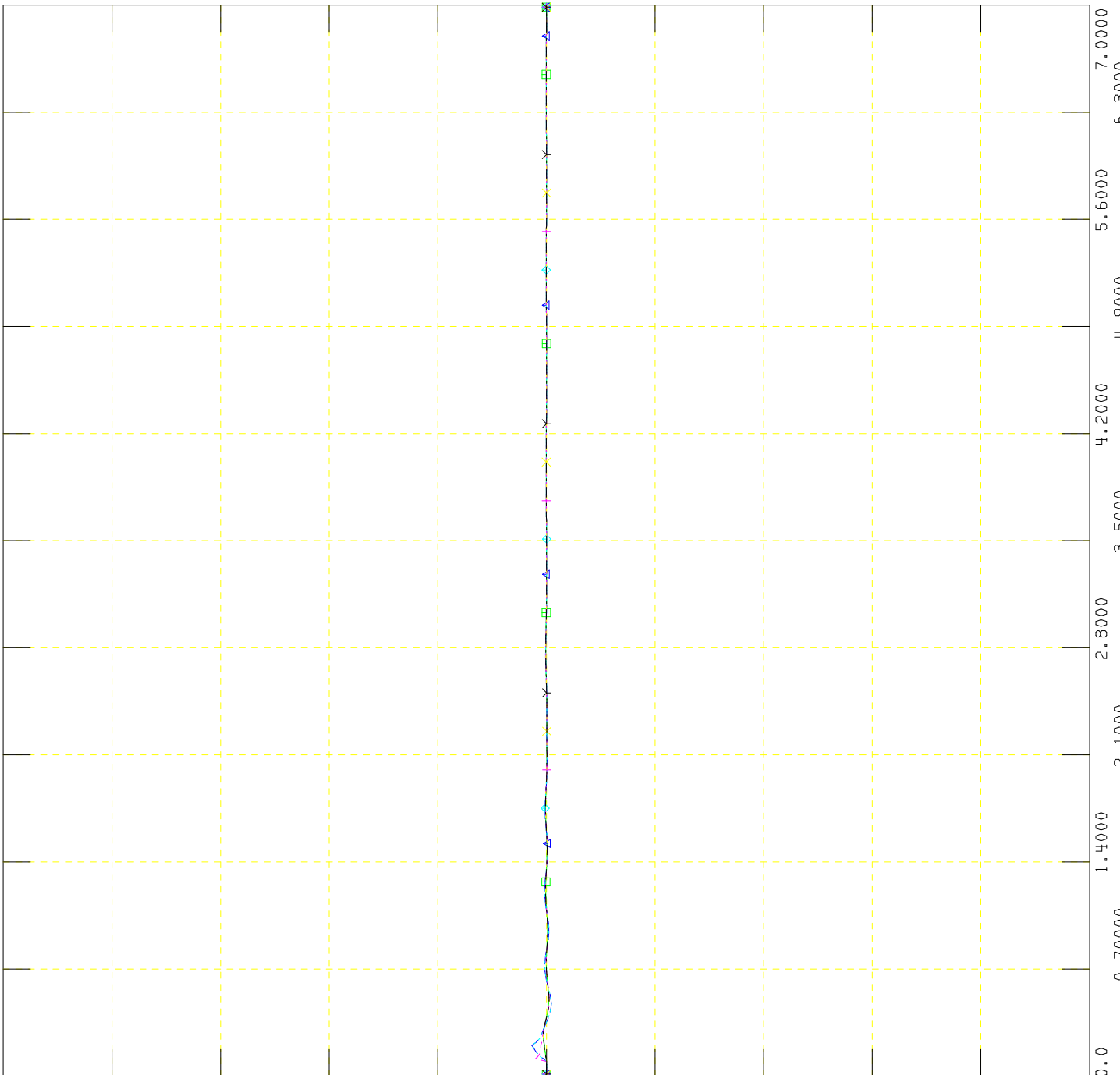
FRI, JUN 13 2008 14:47  
MACHINE FREQUENCIES - 01



LC  
 LC-CONROEB  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



FRI, JUN 13 2008 14:47  
 MACHINE FREQUENCIES - 02

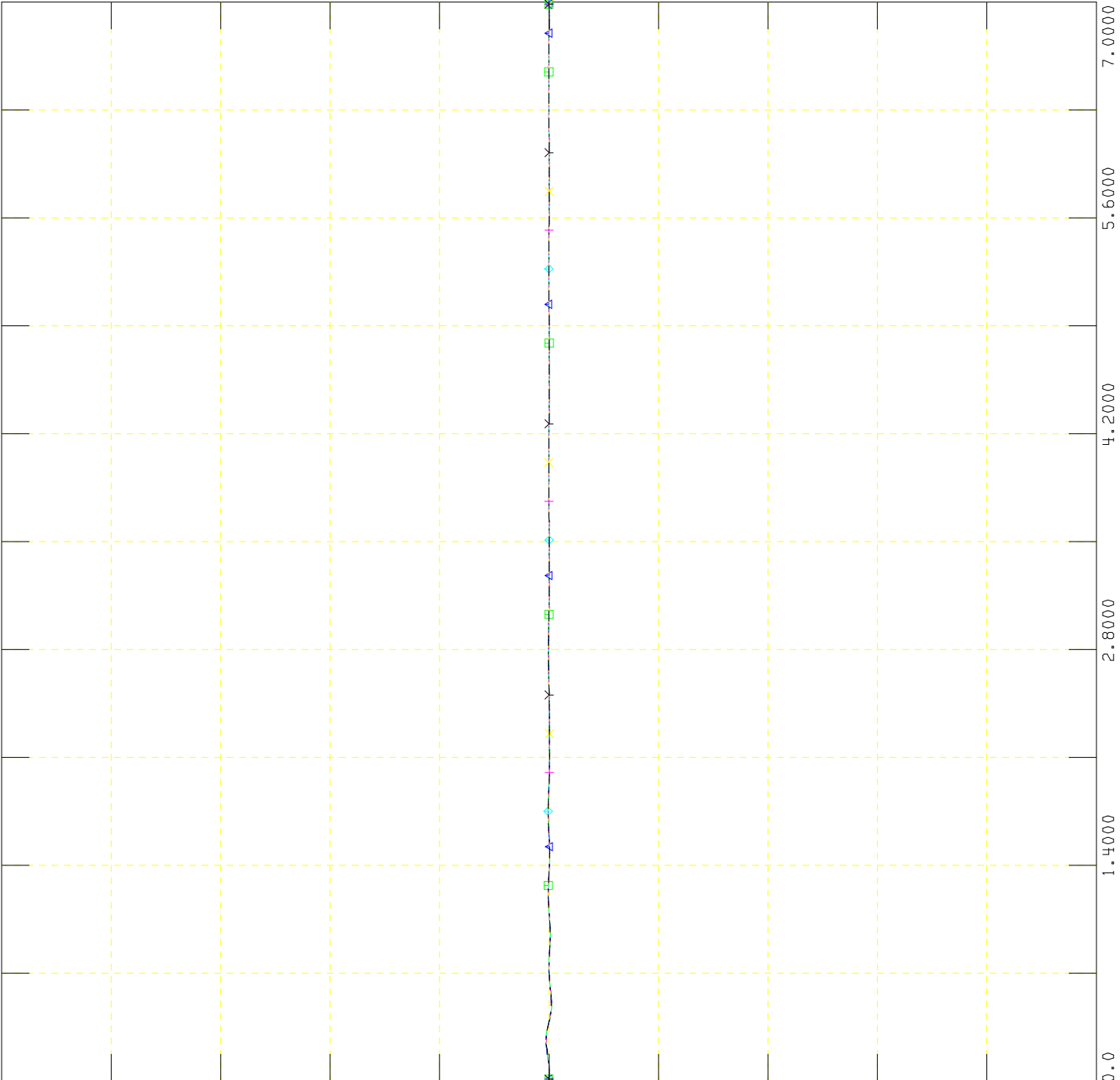




LC  
 LC-CONROEB  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



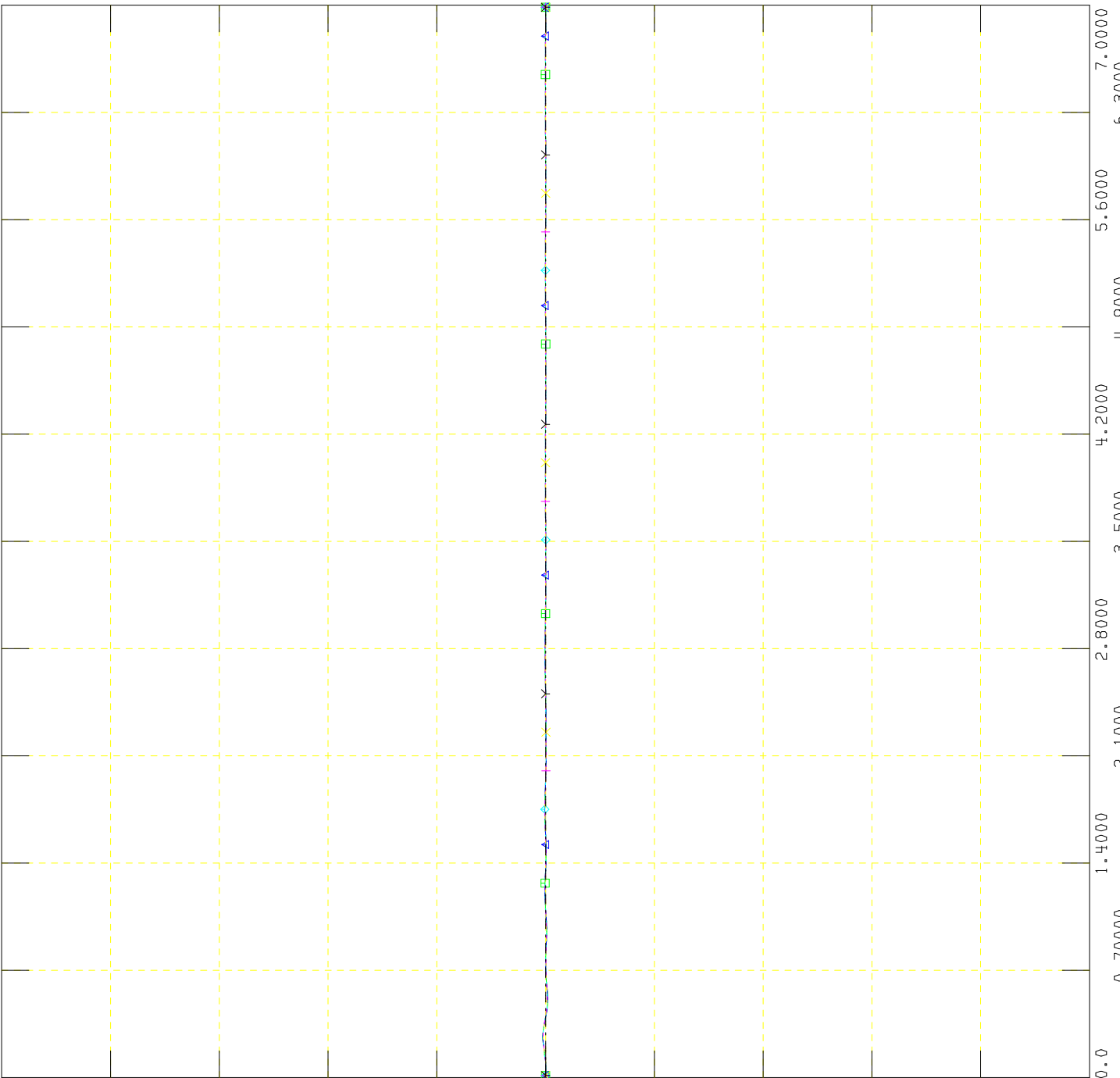
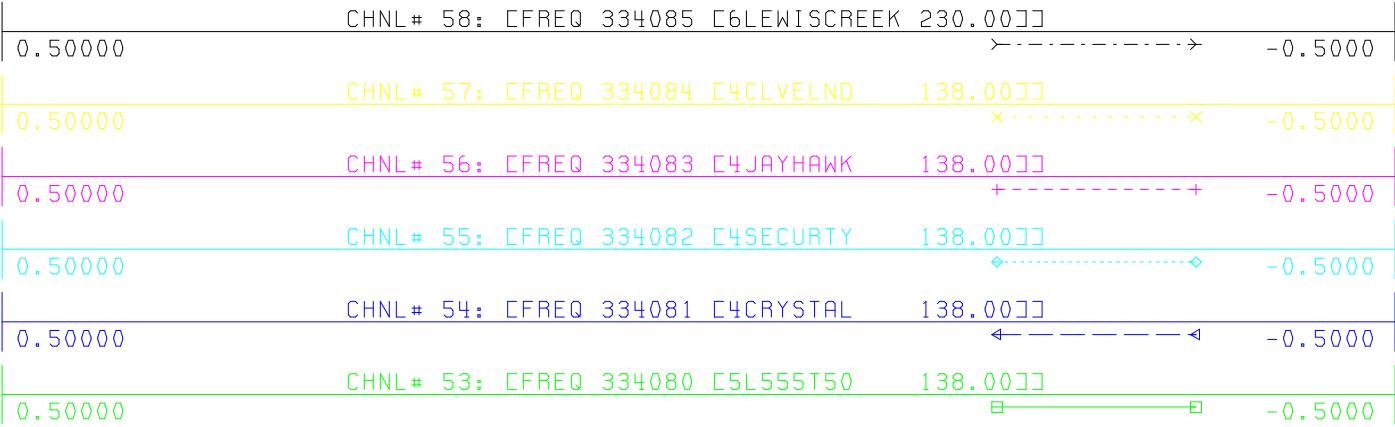
FRI, JUN 13 2008 14:47  
 MACHINE FREQUENCIES - 03

TIME (SECONDS)



LC  
 LC-CONROEB  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out  
 CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 14:47  
 MACHINE FREQUENCIES - 04

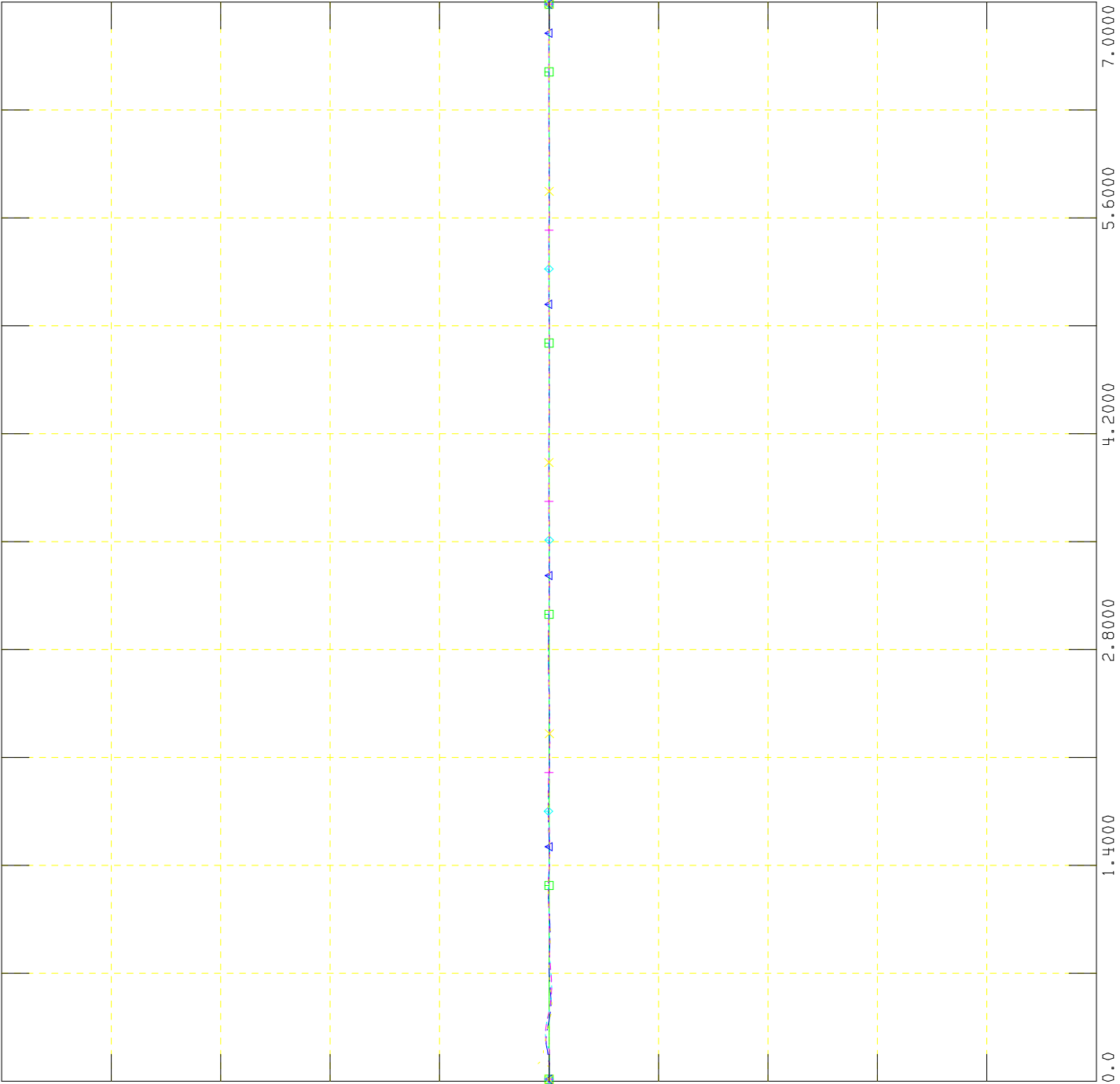
TIME (SECONDS)



LC  
 LC-CONROEB  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

0.50000	CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	x-----x	-0.5000
0.50000	CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	+-----+	-0.5000
0.50000	CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	◇-----◇	-0.5000
0.50000	CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	←-----←	-0.5000
0.50000	CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	▣-----▣	-0.5000



FRI, JUN 13 2008 14:47  
 MACHINE FREQUENCIES - 05

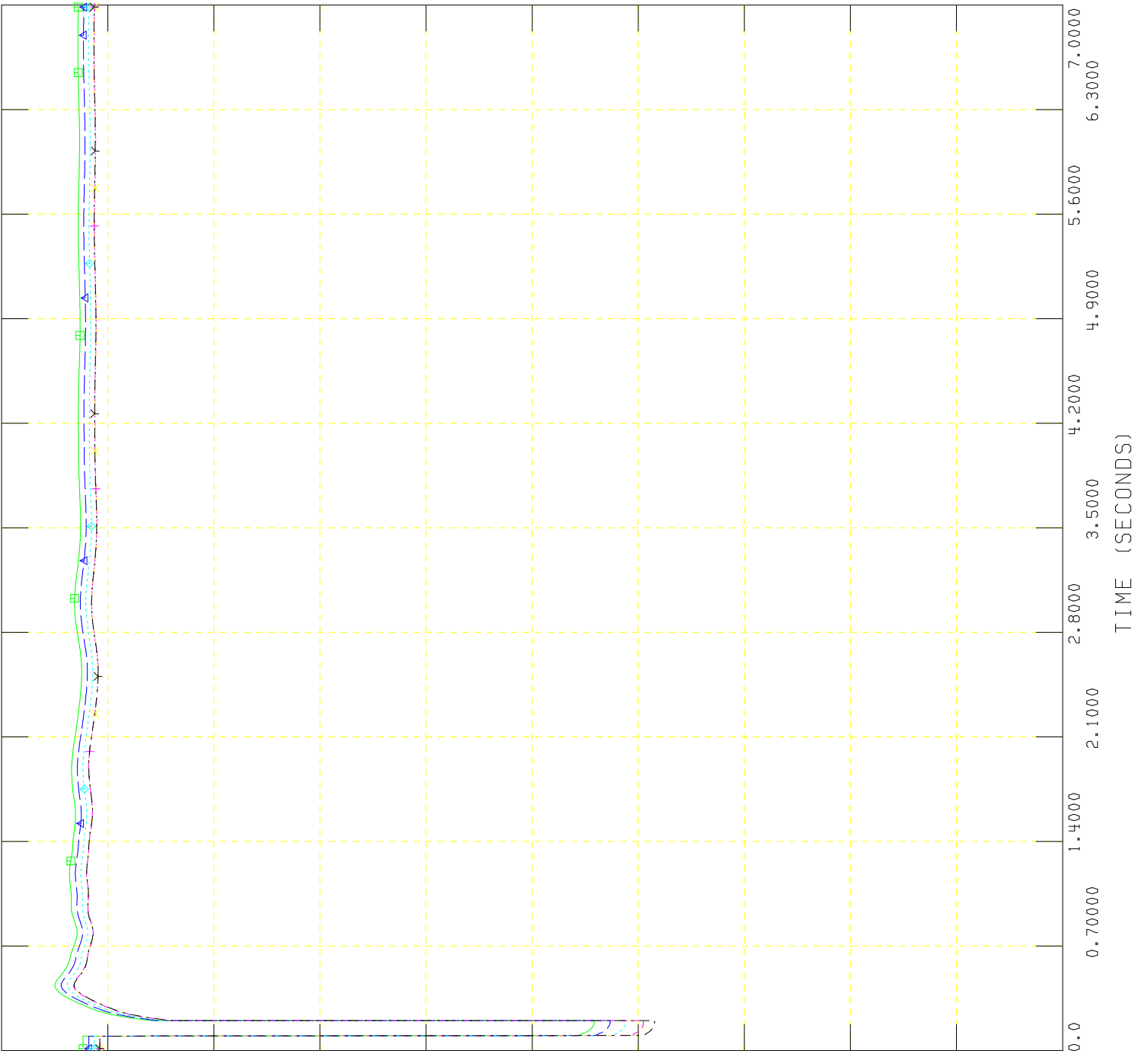
TIME (SECONDS)



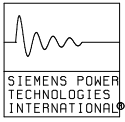
LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



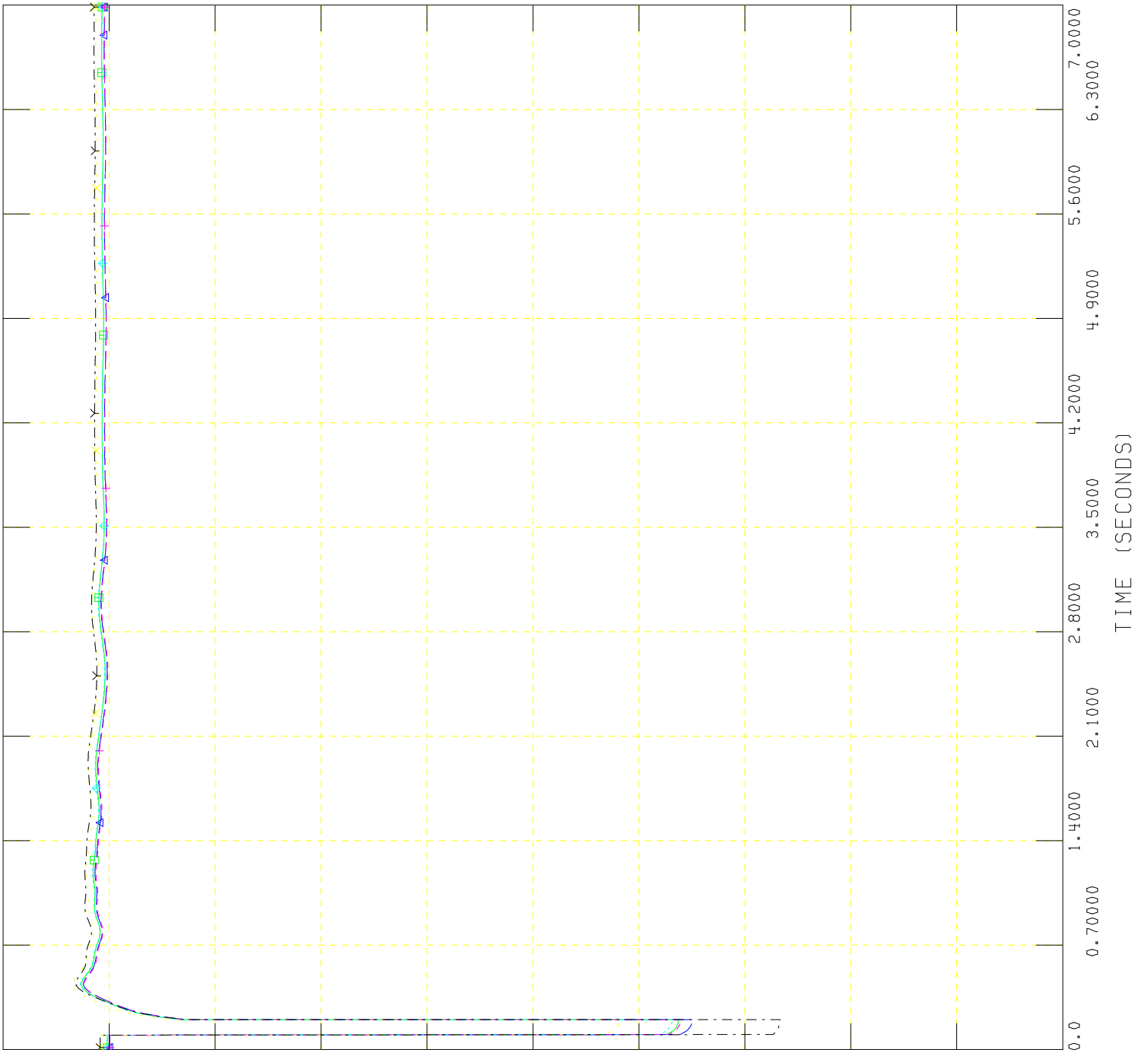
FRI, JUN 13 2008 14:47  
BUS VOLTAGES - 01



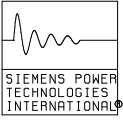
LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



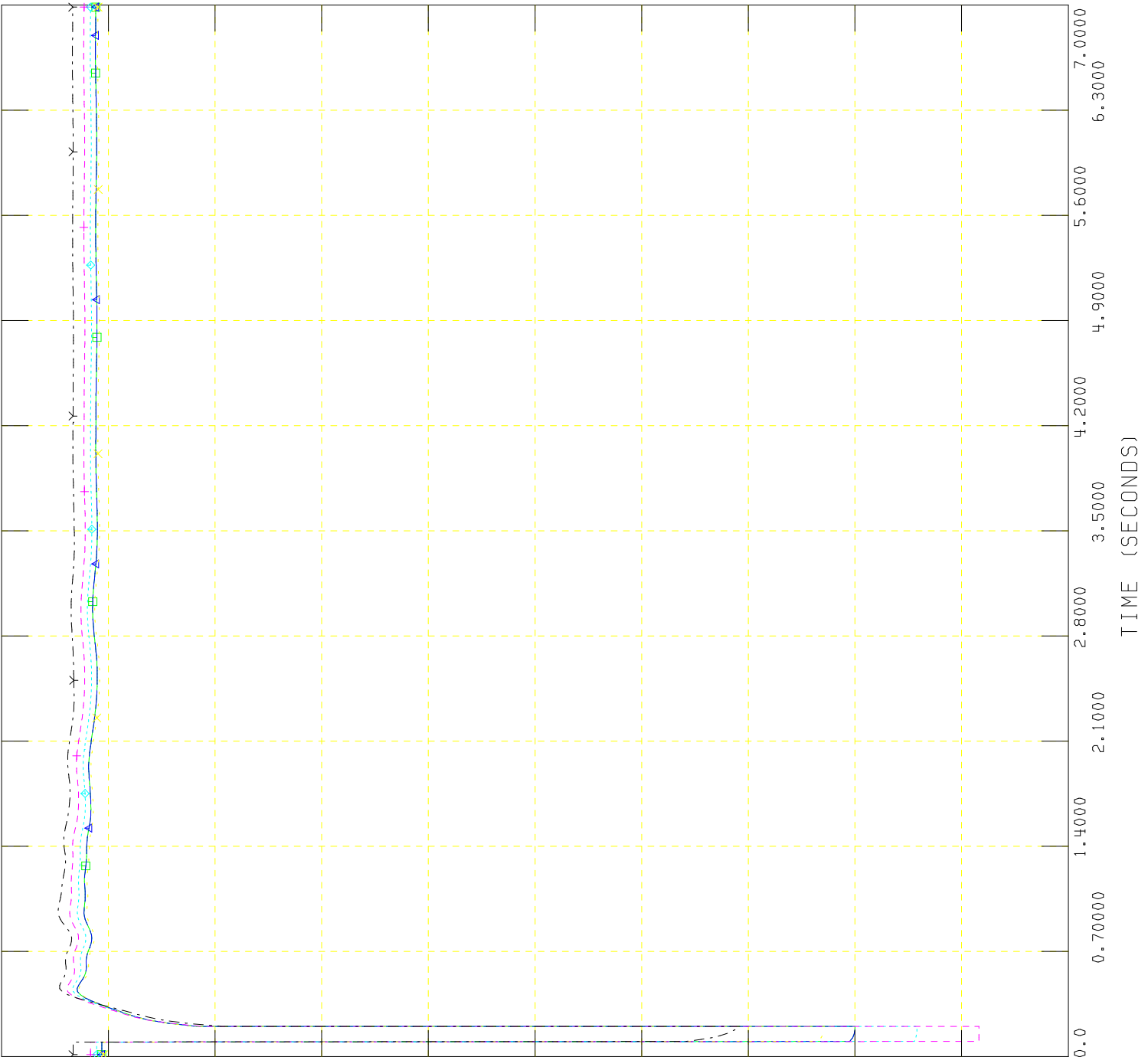
FRI, JUN 13 2008 14:47  
BUS VOLTAGES - 02



LC  
 LC-CONROEB  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



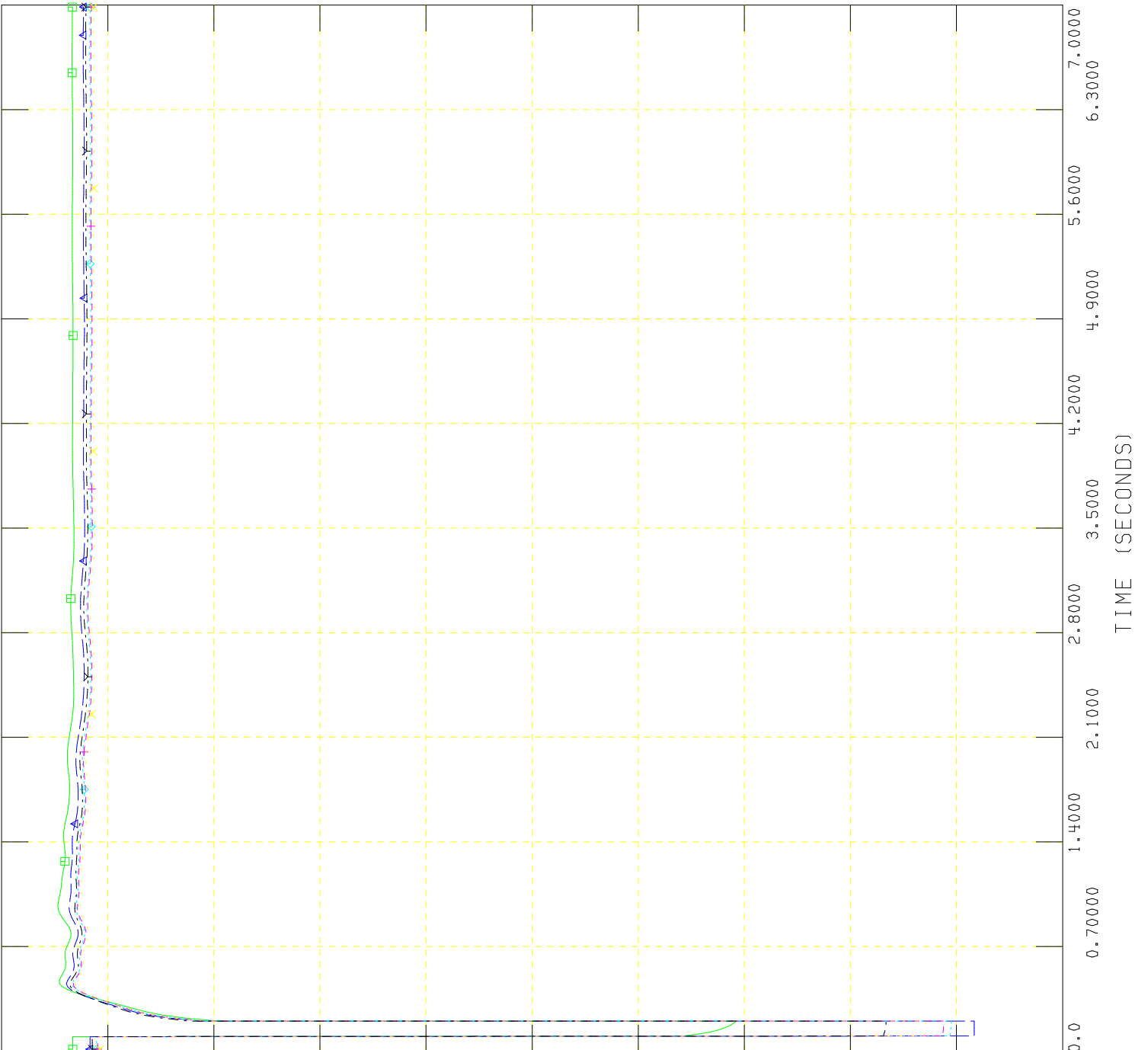
FRI, JUN 13 2008 14:47  
 BUS VOLTAGES - 03



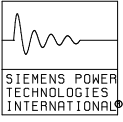
LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



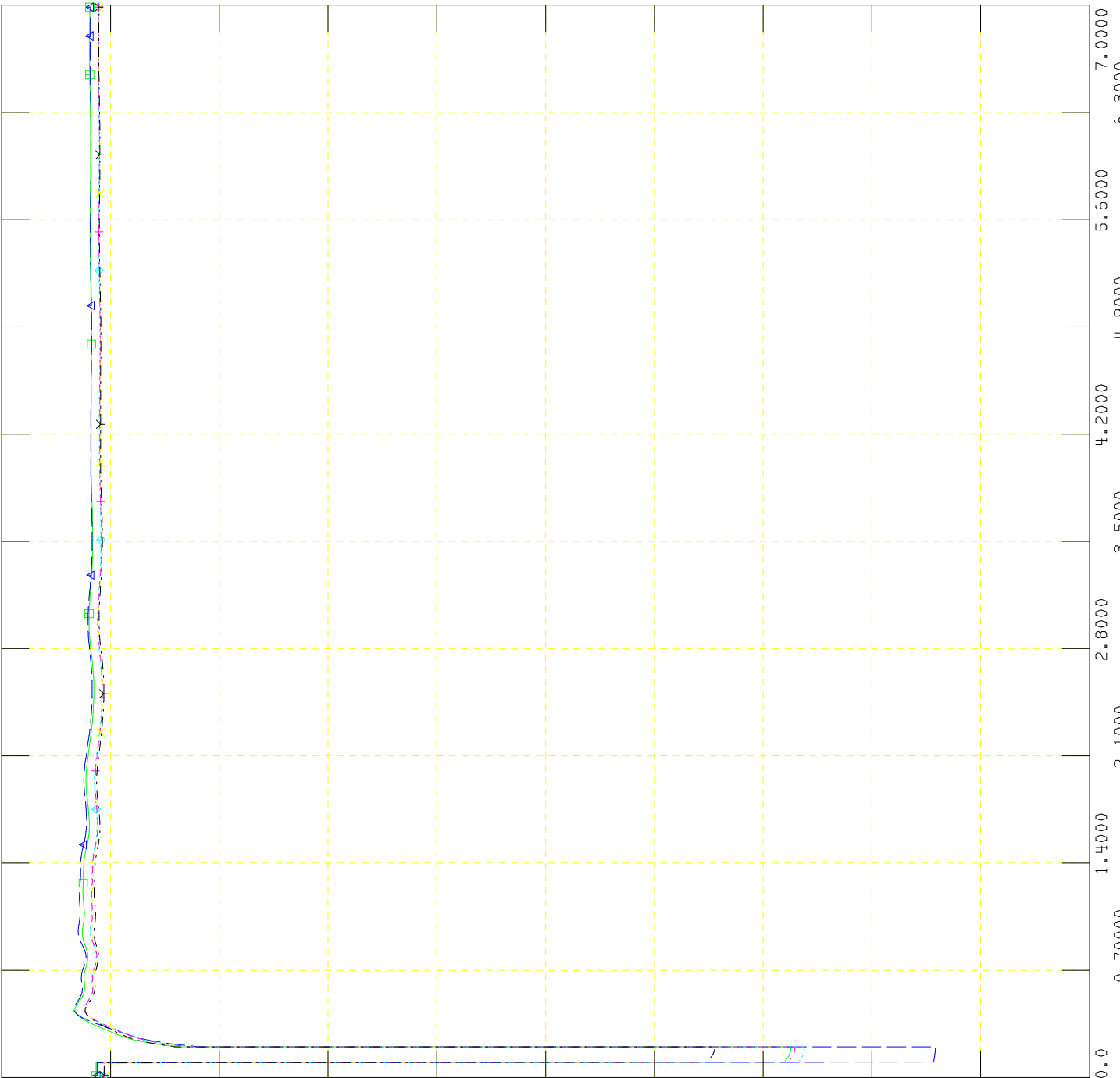
FRI, JUN 13 2008 14:47  
BUS VOLTAGES - 04



LC  
 LC-CONROEB  
 CLEAR LOCAL AND REMOVE IN 4CYC

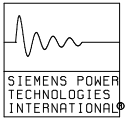
FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



FRI, JUN 13 2008 14:47  
 BUS VOLTAGES - 05

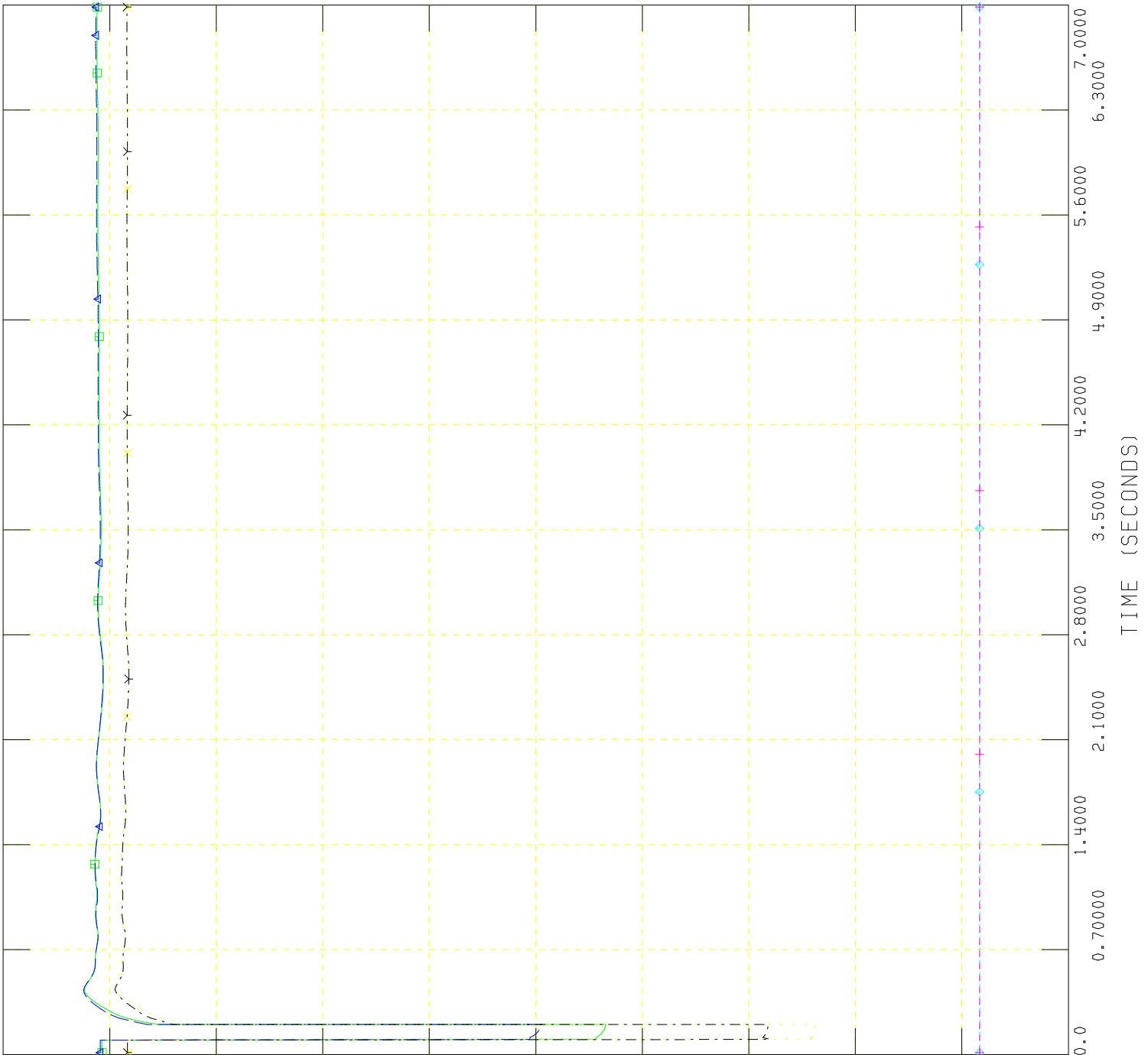




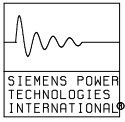
LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



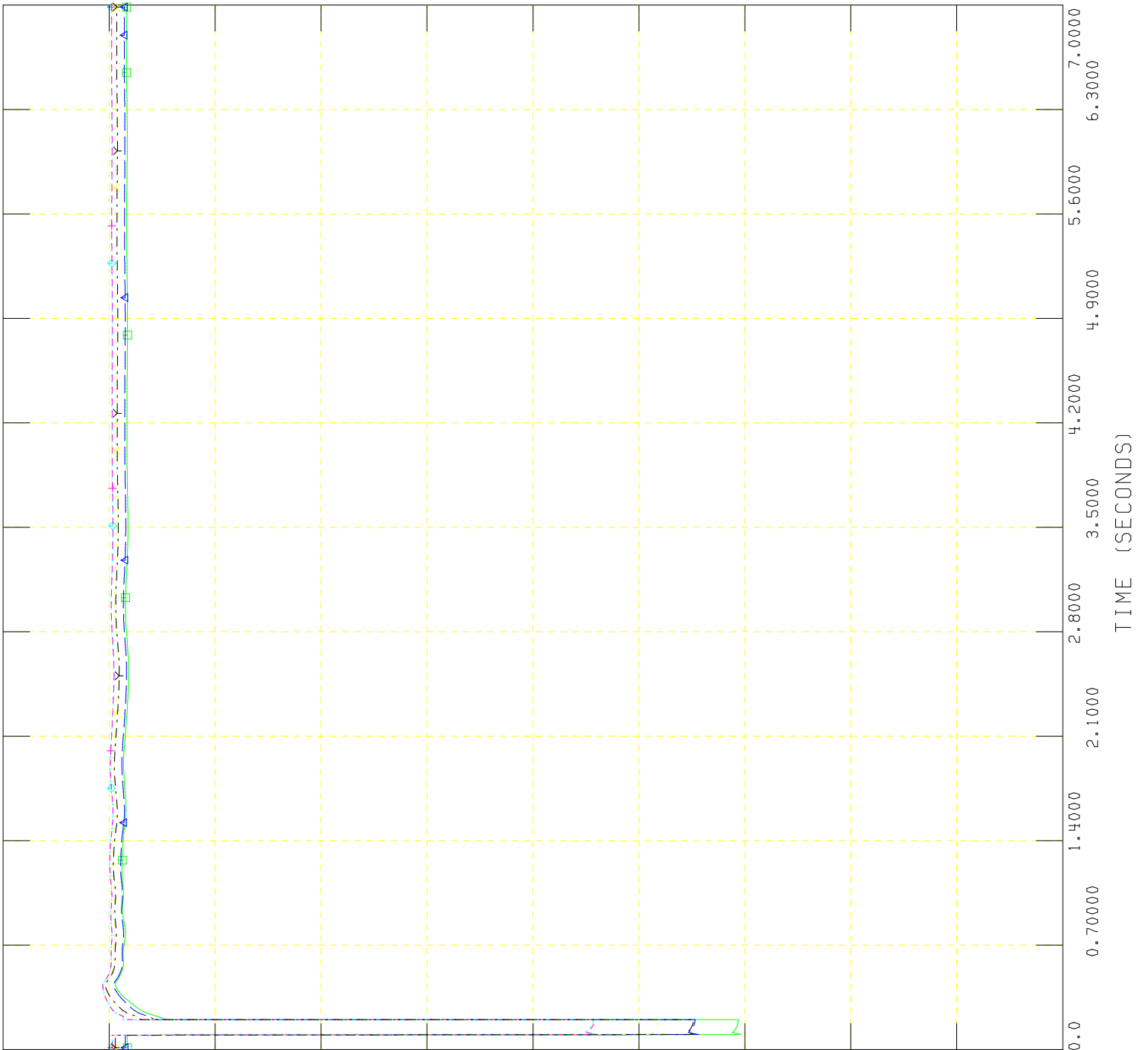
FRI, JUN 13 2008 14:47  
BUS VOLTAGES - 06



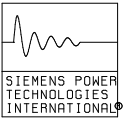
LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



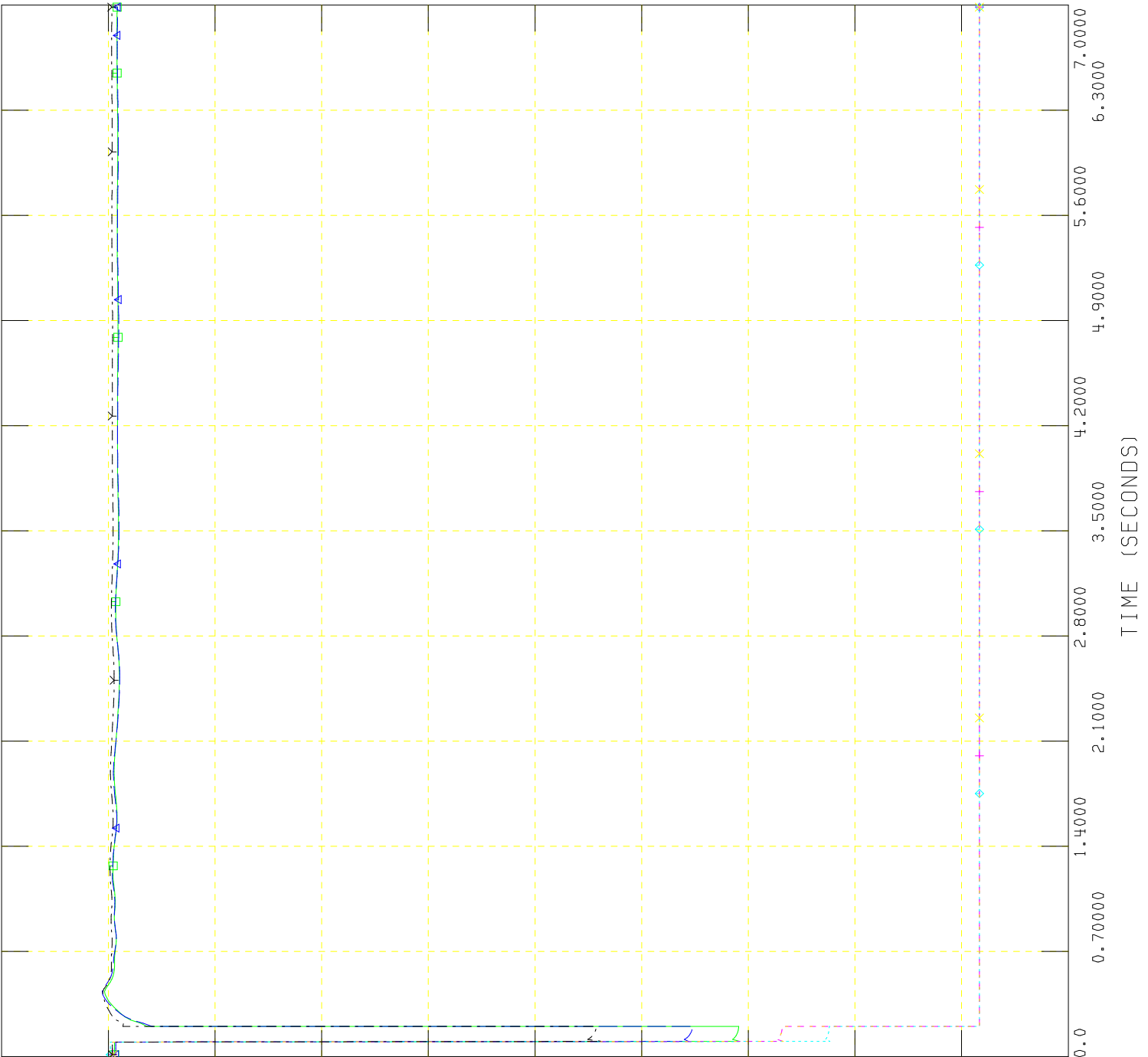
FRI, JUN 13 2008 14:47  
BUS VOLTAGES - 07



LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



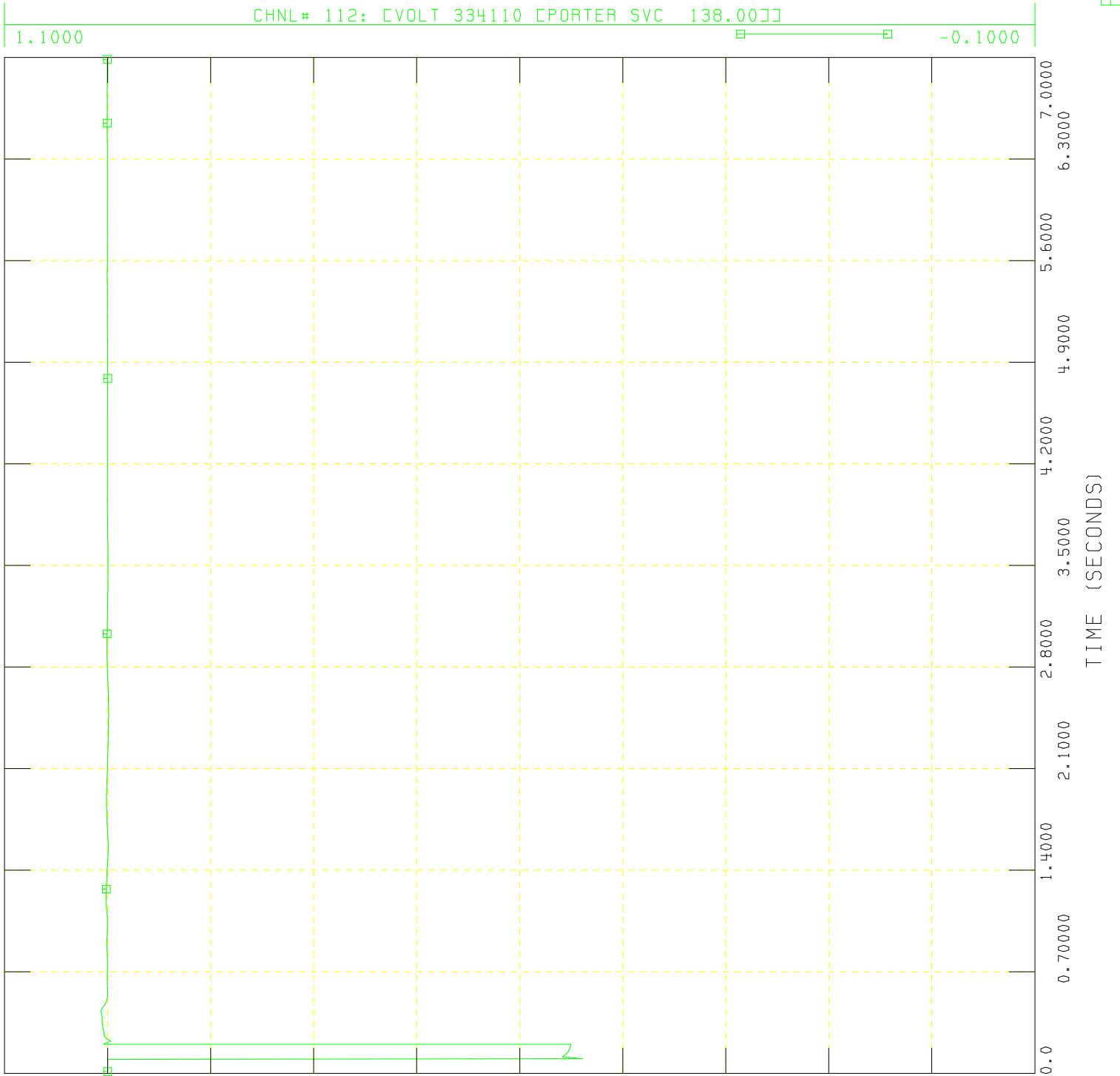
FRI, JUN 13 2008 14:47  
BUS VOLTAGES - 08



LC  
LC-CONROEB  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-ConroeB-3.out

FRI, JUN 13 2008 14:47  
BUS VOLTAGES - 09

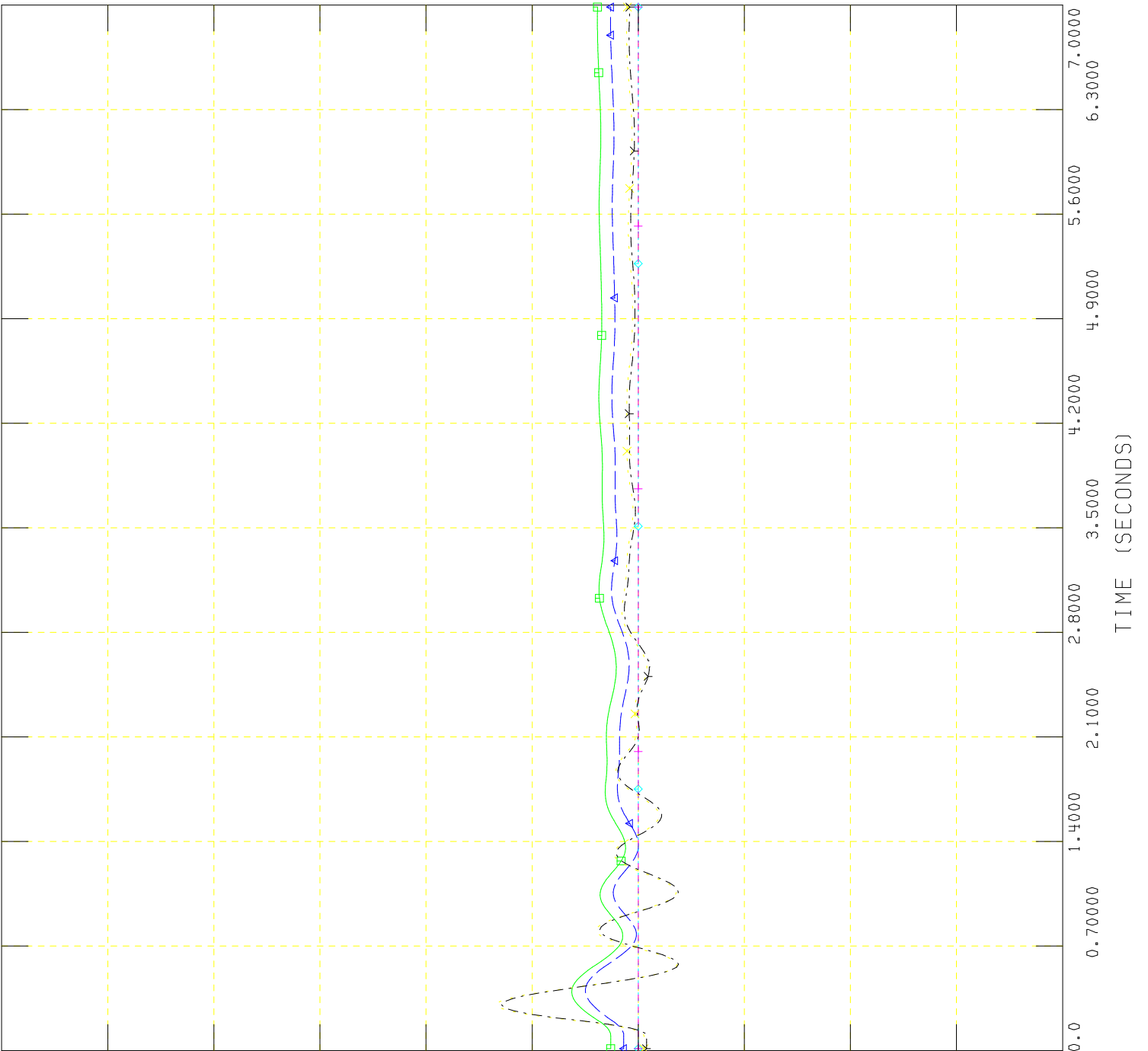
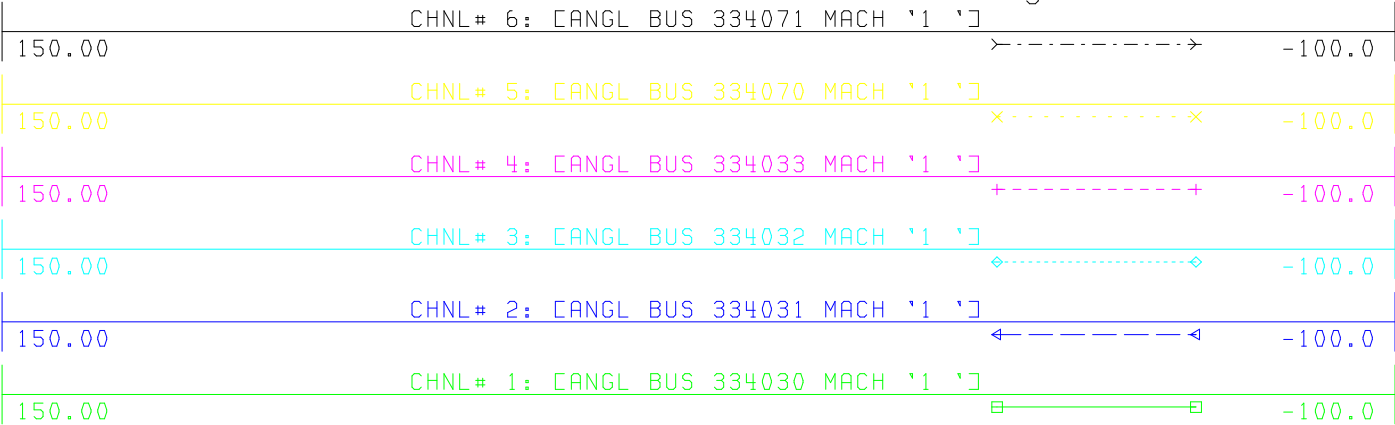


**FAULT 4**  
**Lewis Creek – Security 138 kV**  
**Normal Clearing Times**



LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out



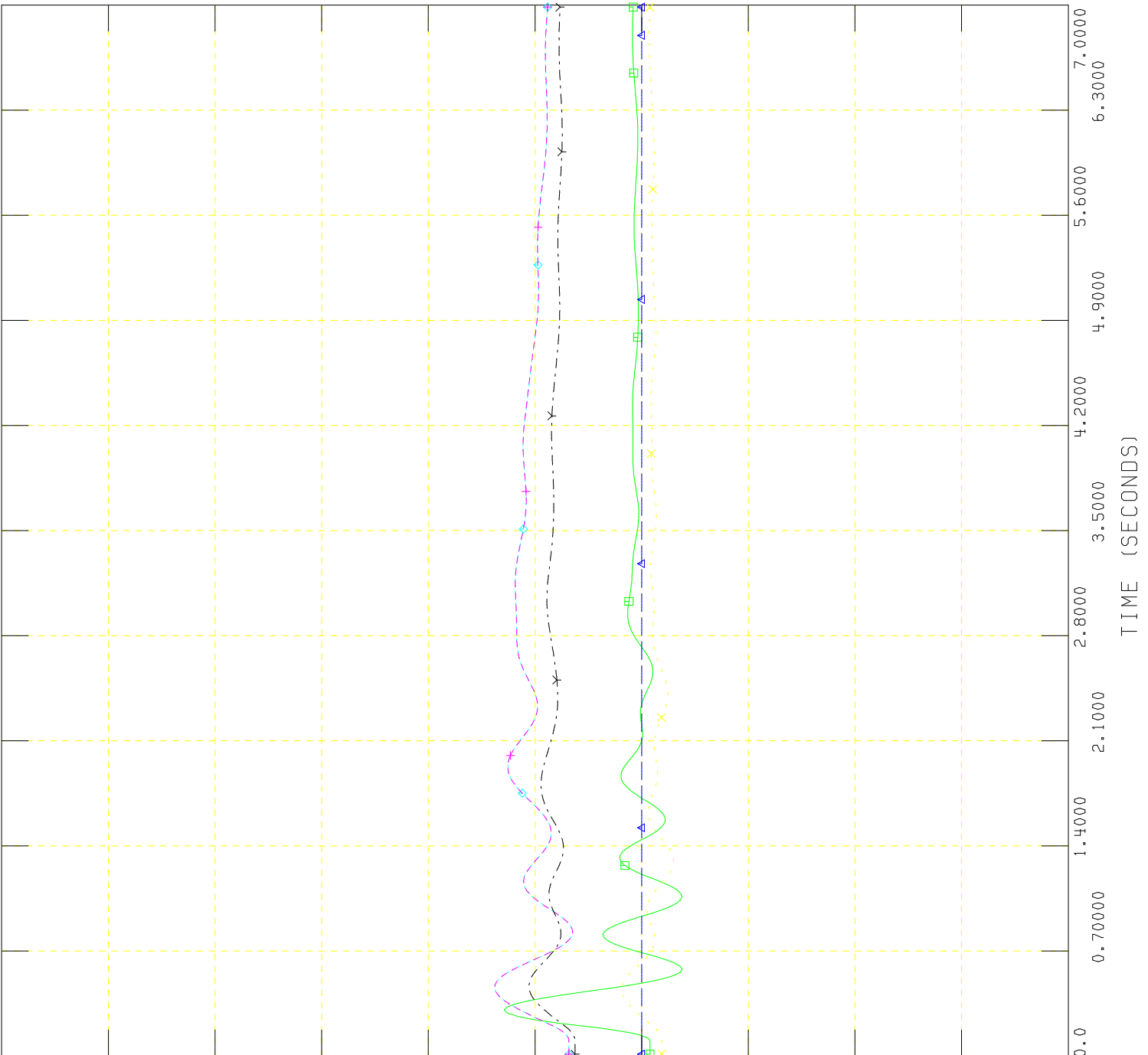
FRI, JUN 13 2008 14:49  
MACHINE ANGLES - 01



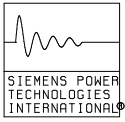
LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

Channel	Label	Value
11	CHANL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
10	CHANL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
9	CHANL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
8	CHANL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
7	CHANL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
6	CHANL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0



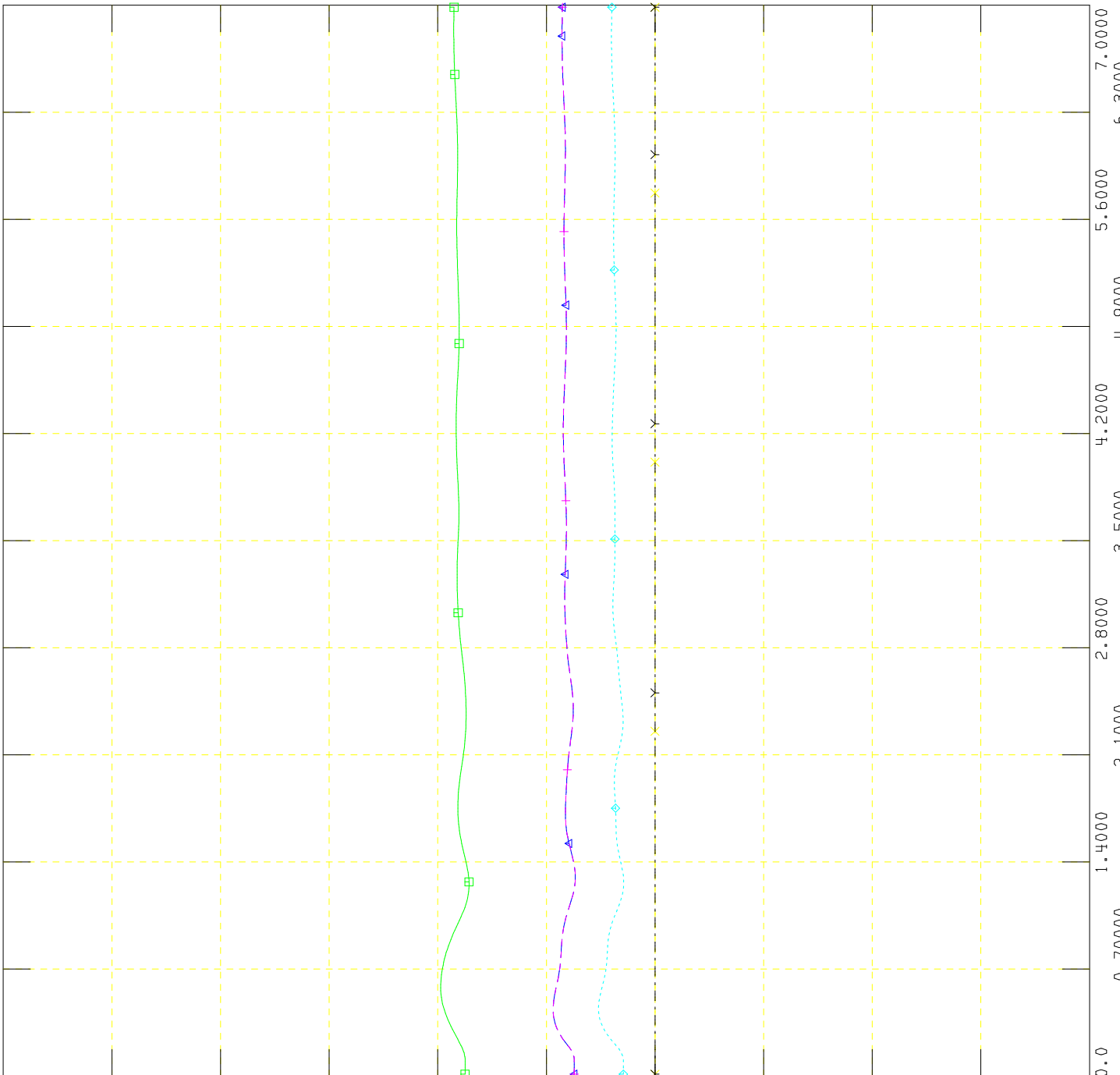
FRI, JUN 13 2008 14:49  
MACHINE ANGLES - 02



LC  
 LC-SECURITY  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

150.00	CHNL# 18: [ANGL BUS 334380 MACH '1 ']	-100.0
150.00	CHNL# 17: [ANGL BUS 334377 MACH '1 ']	-100.0
150.00	CHNL# 16: [ANGL BUS 334376 MACH '1 ']	-100.0
150.00	CHNL# 15: [ANGL BUS 334375 MACH '1 ']	-100.0
150.00	CHNL# 14: [ANGL BUS 334374 MACH '1 ']	-100.0
150.00	CHNL# 13: [ANGL BUS 334335 MACH '1 ']	-100.0



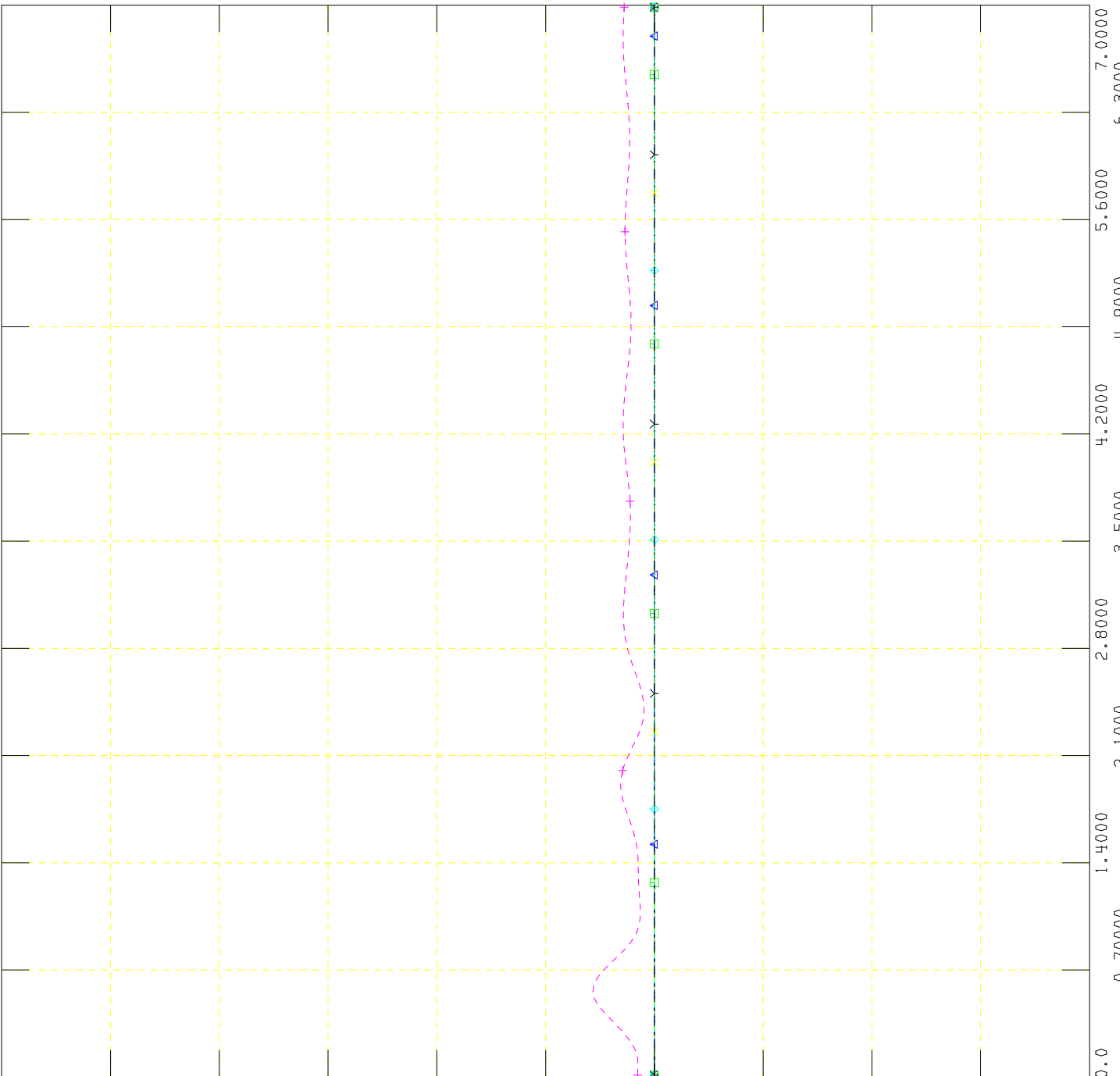
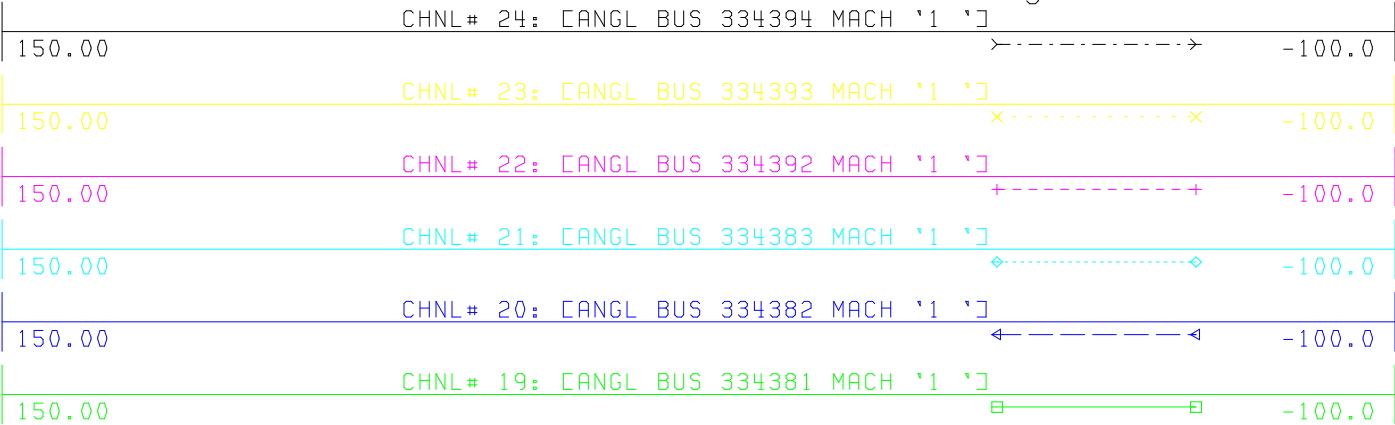
FRI, JUN 13 2008 14:49  
 MACHINE ANGLES - 03



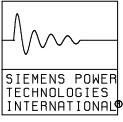


LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out



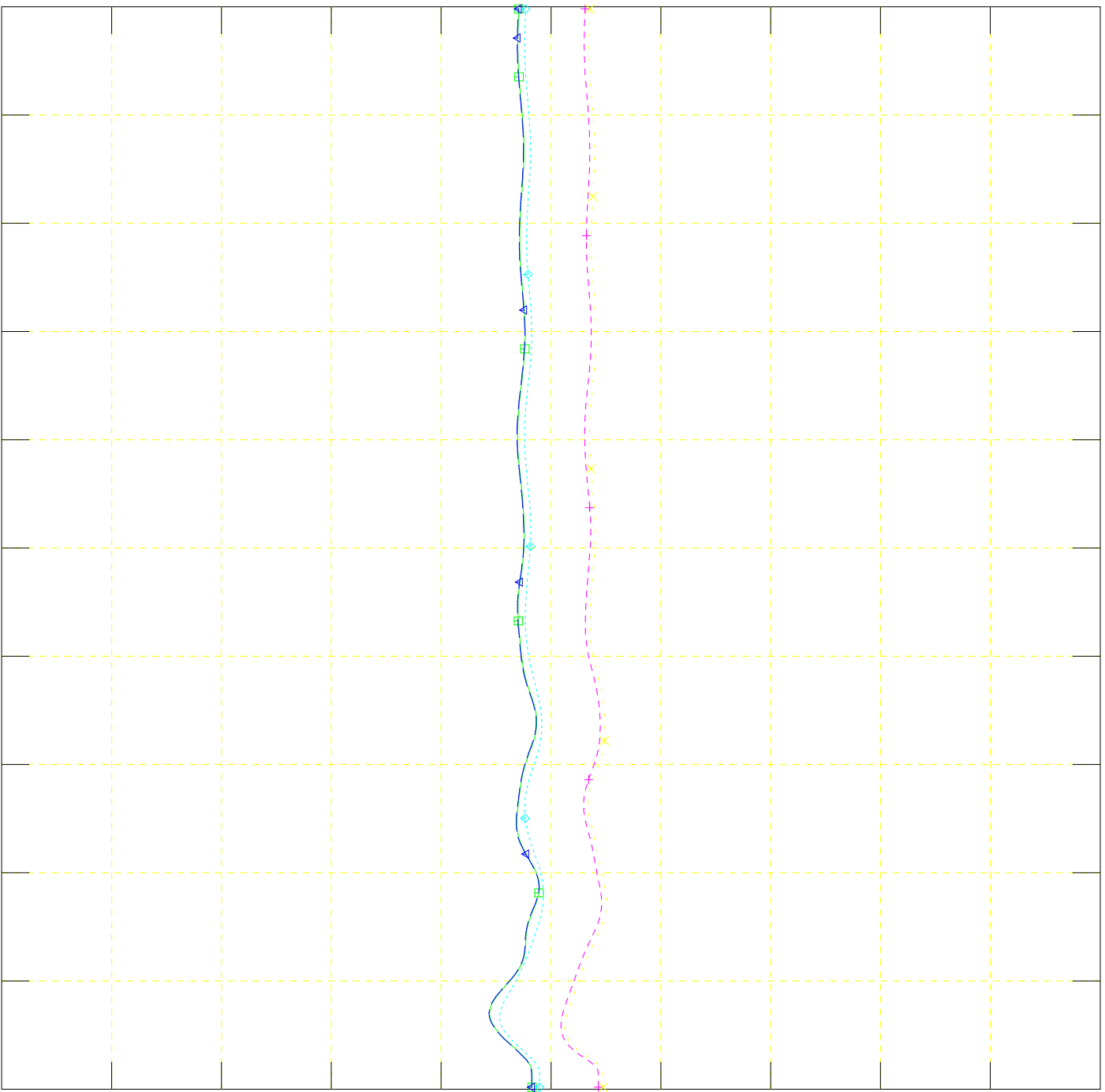
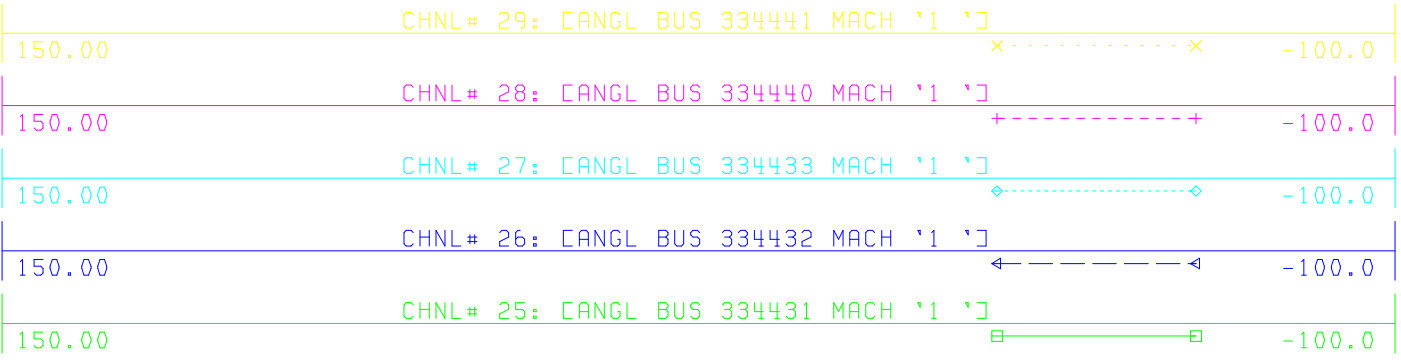
FRI, JUN 13 2008 14:49  
MACHINE ANGLES - 04



LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

FRI, JUN 13 2008 14:49  
MACHINE ANGLES - 05

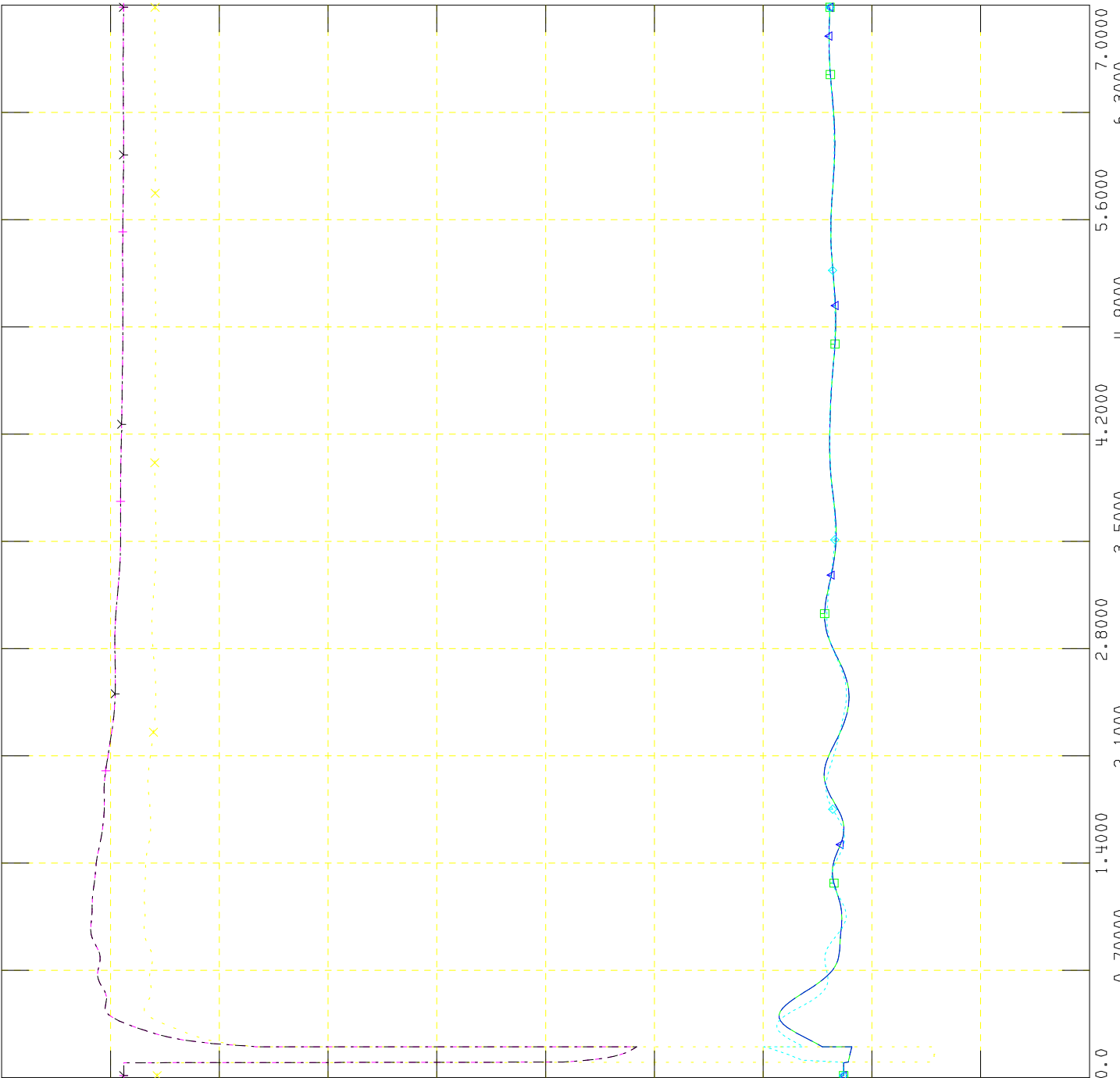




LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



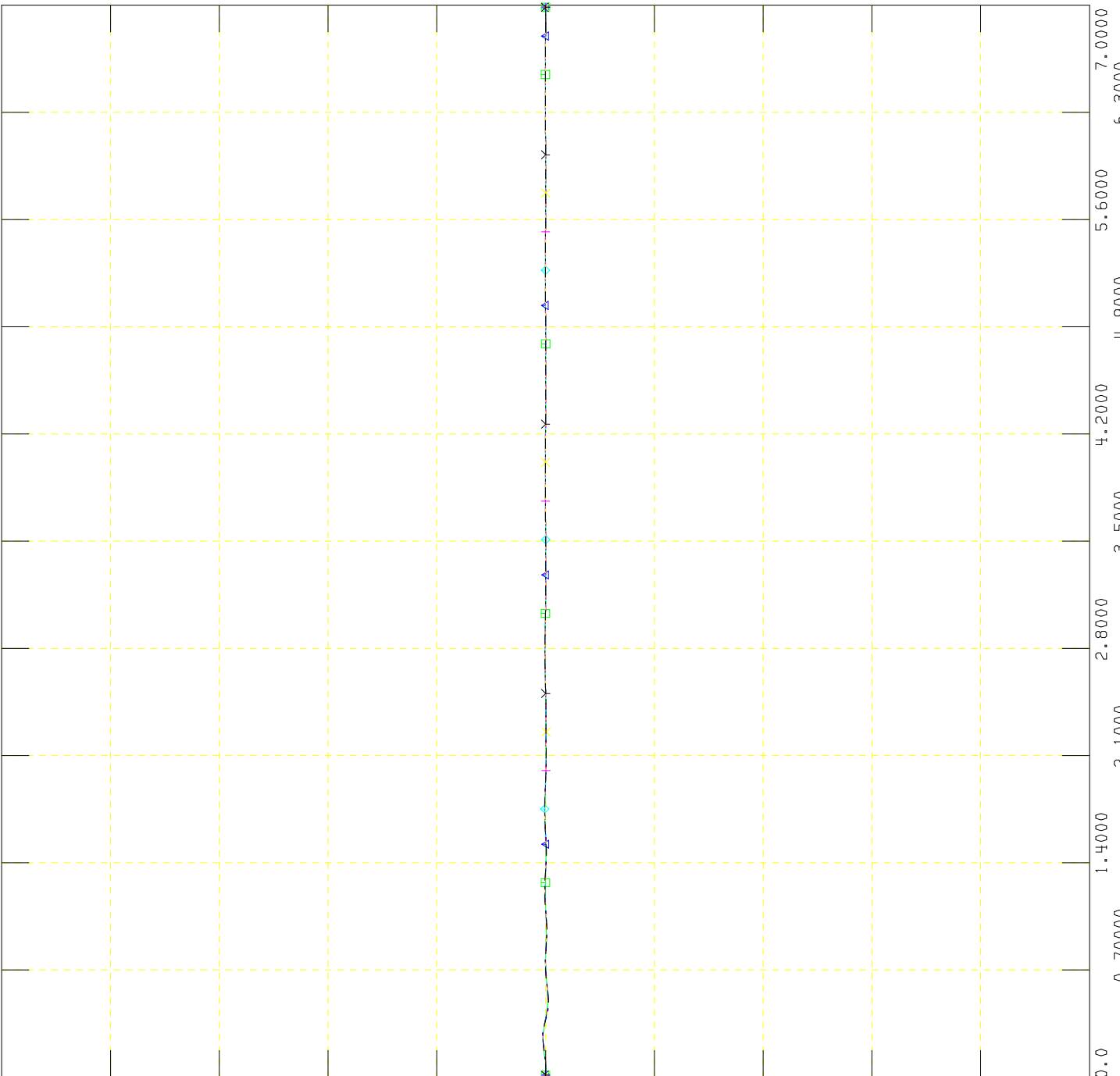
FRI, JUN 13 2008 14:49  
ANG & VOLT - PID-211 GENS



LC  
 LC-SECURITY  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

0.50000	CHNL# 41: [FREQ 334065 [4LACON 138.00]]	-0.50000
0.50000	CHNL# 40: [FREQ 334064 [8LNG 413 138.00]]	-0.50000
0.50000	CHNL# 39: [FREQ 334063 [4EVGRN* 138.00]]	-0.50000
0.50000	CHNL# 38: [FREQ 334062 [4TEMCO 138.00]]	-0.50000
0.50000	CHNL# 37: [FREQ 334061 [4GOREE 138.00]]	-0.50000
0.50000	CHNL# 36: [FREQ 334060 [4MT.ZION 138.00]]	-0.50000



FRI, JUN 13 2008 14:49  
 MACHINE FREQUENCIES - 01

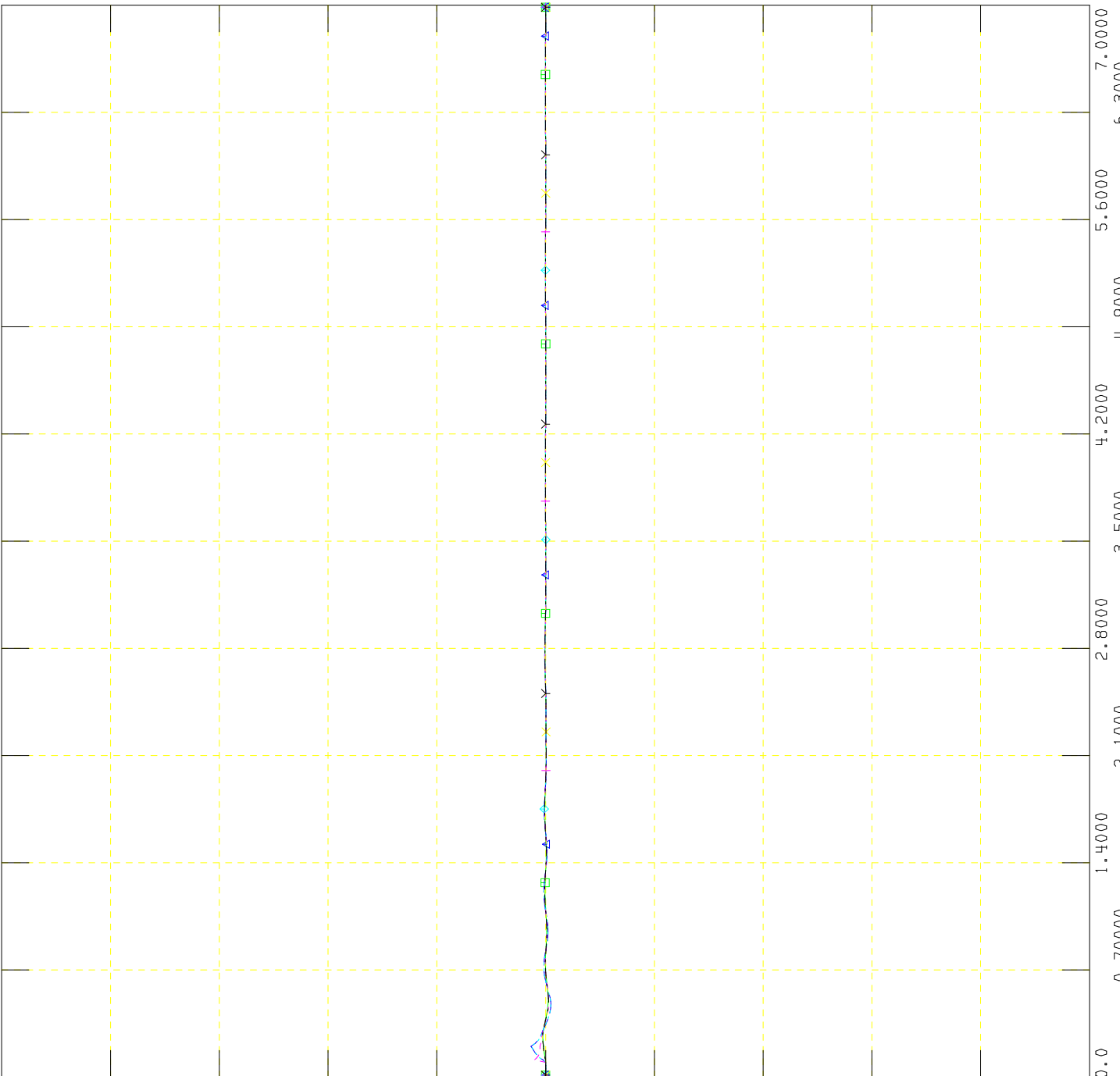
TIME (SECONDS)



LC  
 LC-SECURITY  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

0.50000	CHNL# 47: CFREQ 334074 C4PANORAM	138.0000	-0.50000
0.50000	CHNL# 46: CFREQ 334073 C4EGYPT	138.0000	-0.50000
0.50000	CHNL# 45: CFREQ 334072 C4LEWIS	138.0000	-0.50000
0.50000	CHNL# 44: CFREQ 334071 C62LEWIS	22.0000	-0.50000
0.50000	CHNL# 43: CFREQ 334070 C61LEWIS	22.0000	-0.50000
0.50000	CHNL# 42: CFREQ 334066 C4GEORGIA	138.0000	-0.50000



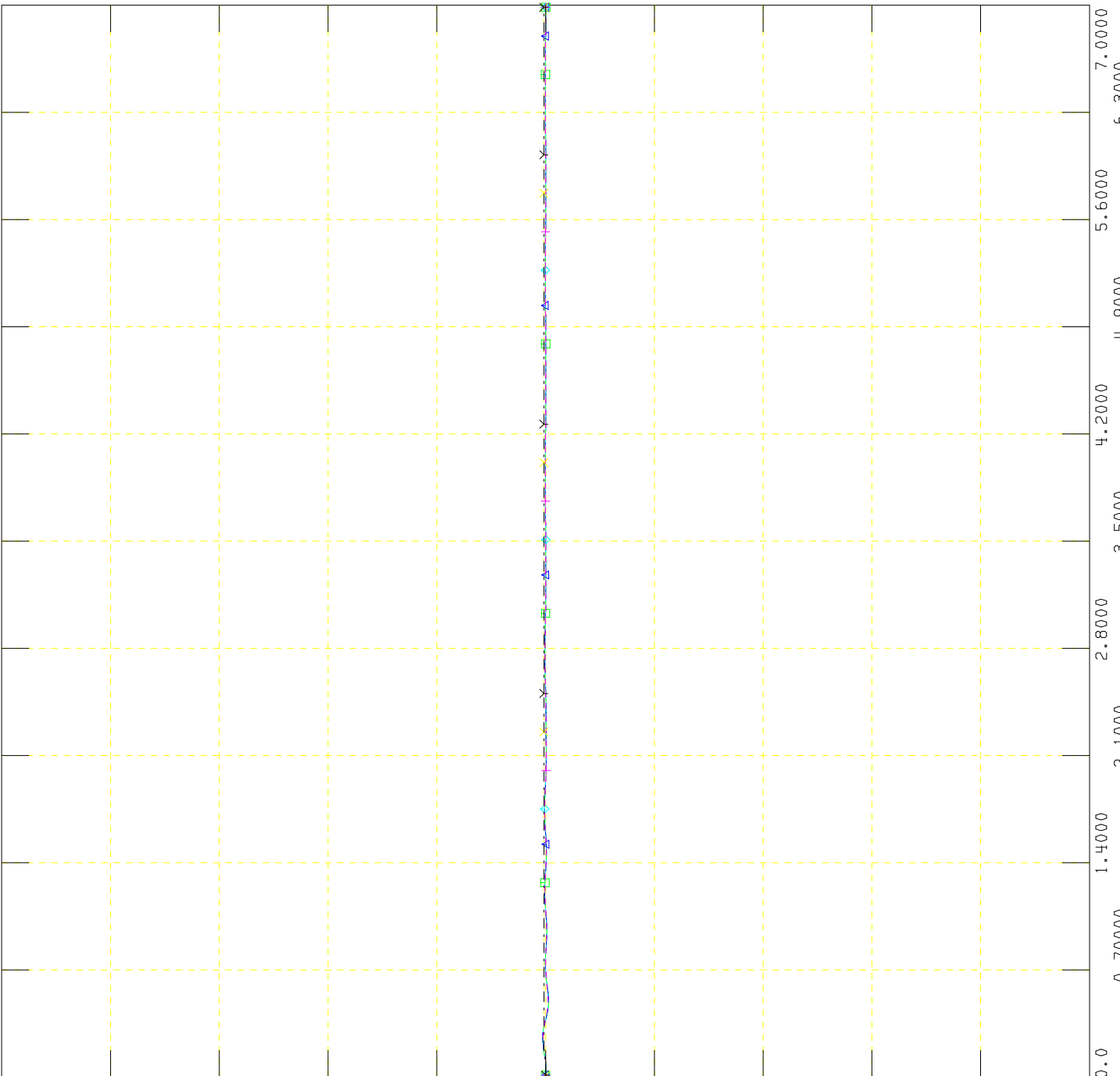
FRI, JUN 13 2008 14:49  
 MACHINE FREQUENCIES - 02



LC  
 LC-SECURITY  
 CLEAR LOCAL AND REMOVE IN 4CYC

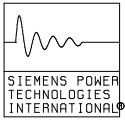
FILE: C:\Southwest Power Pool\LC-Security-4.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



FRI, JUN 13 2008 14:49  
 MACHINE FREQUENCIES - 03

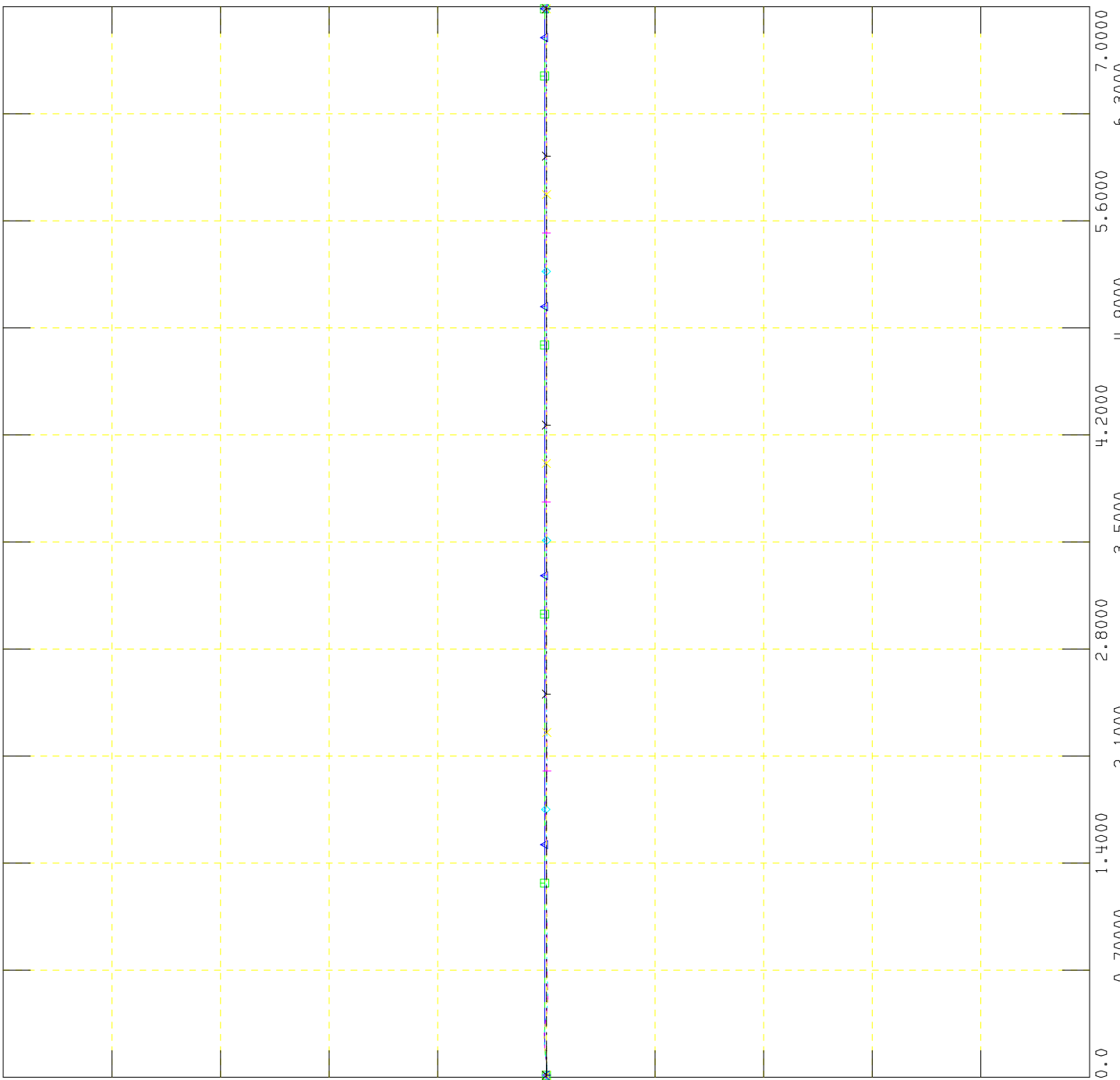
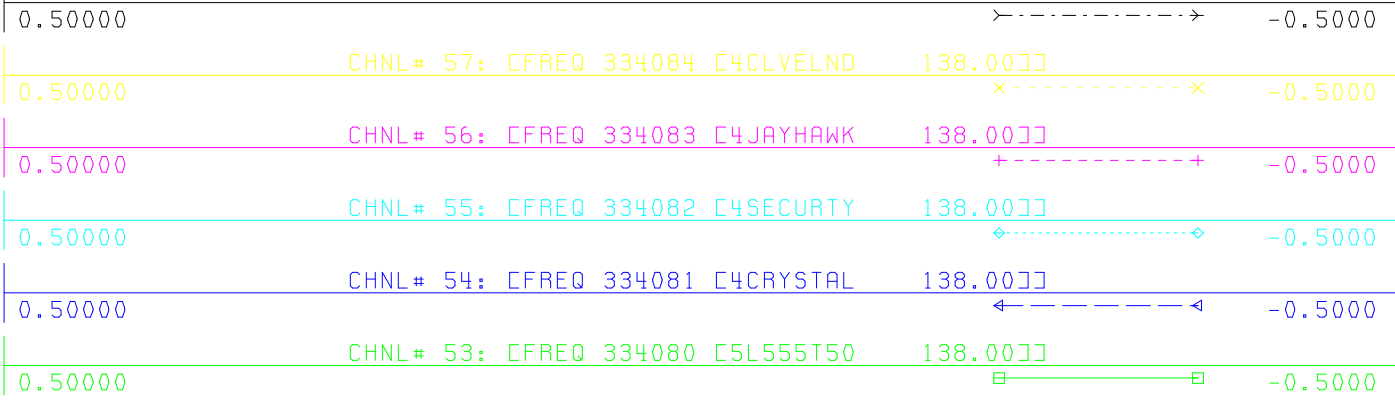
TIME (SECONDS)



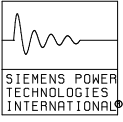
LC  
 LC-SECURITY  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 14:49  
 MACHINE FREQUENCIES - 04

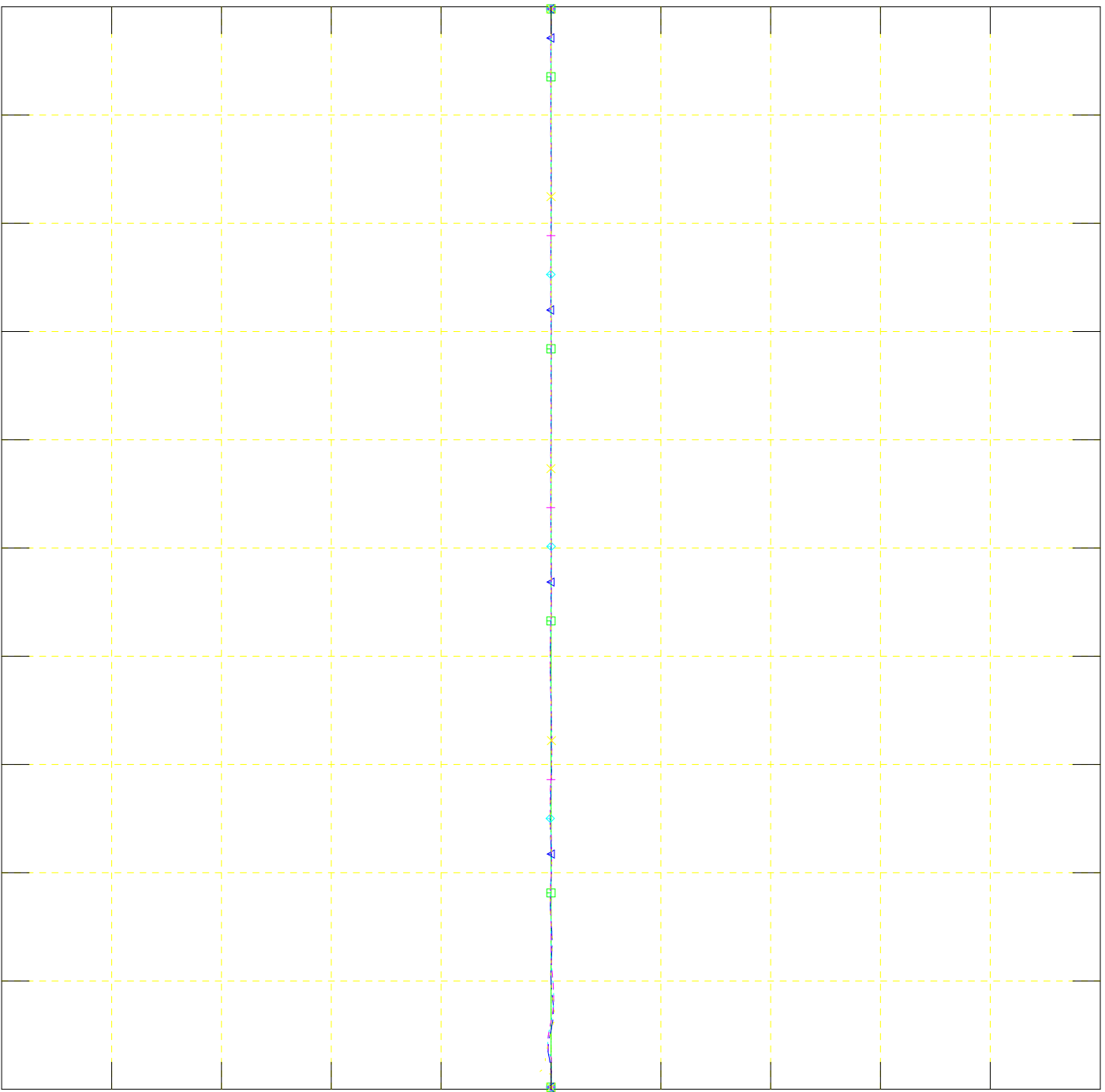


LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

FRI, JUN 13 2008 14:49  
MACHINE FREQUENCIES - 05

Channel	Freq	Value	Marker
CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	18.000	0.50000	x
CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	18.000	0.50000	+
CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	18.000	0.50000	◇
CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	138.00	0.50000	△
CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	230.00	0.50000	□



0.0 0.70000 1.4000 2.1000 2.8000 3.5000 4.2000 4.9000 5.6000 6.3000 7.0000

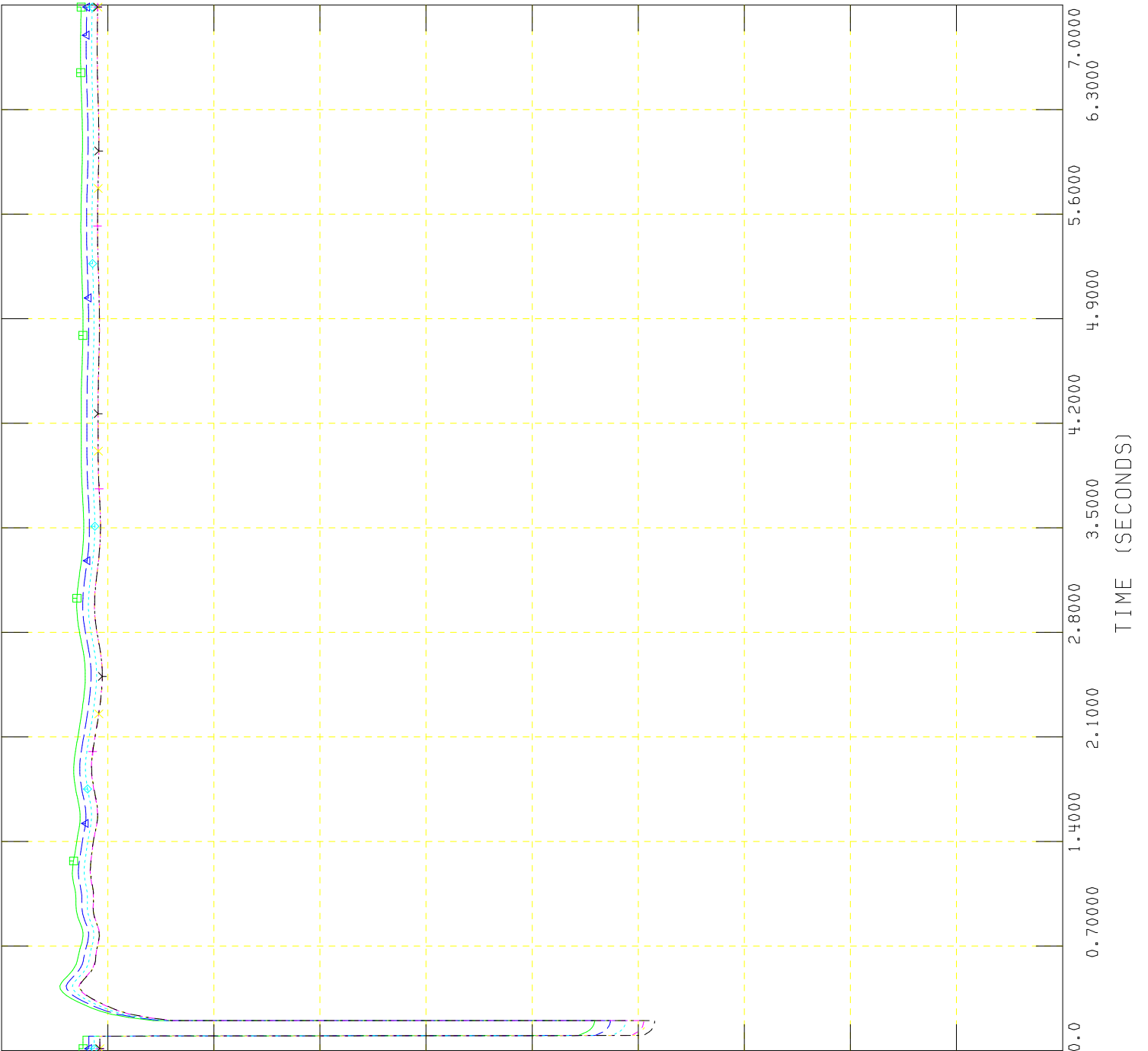




LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



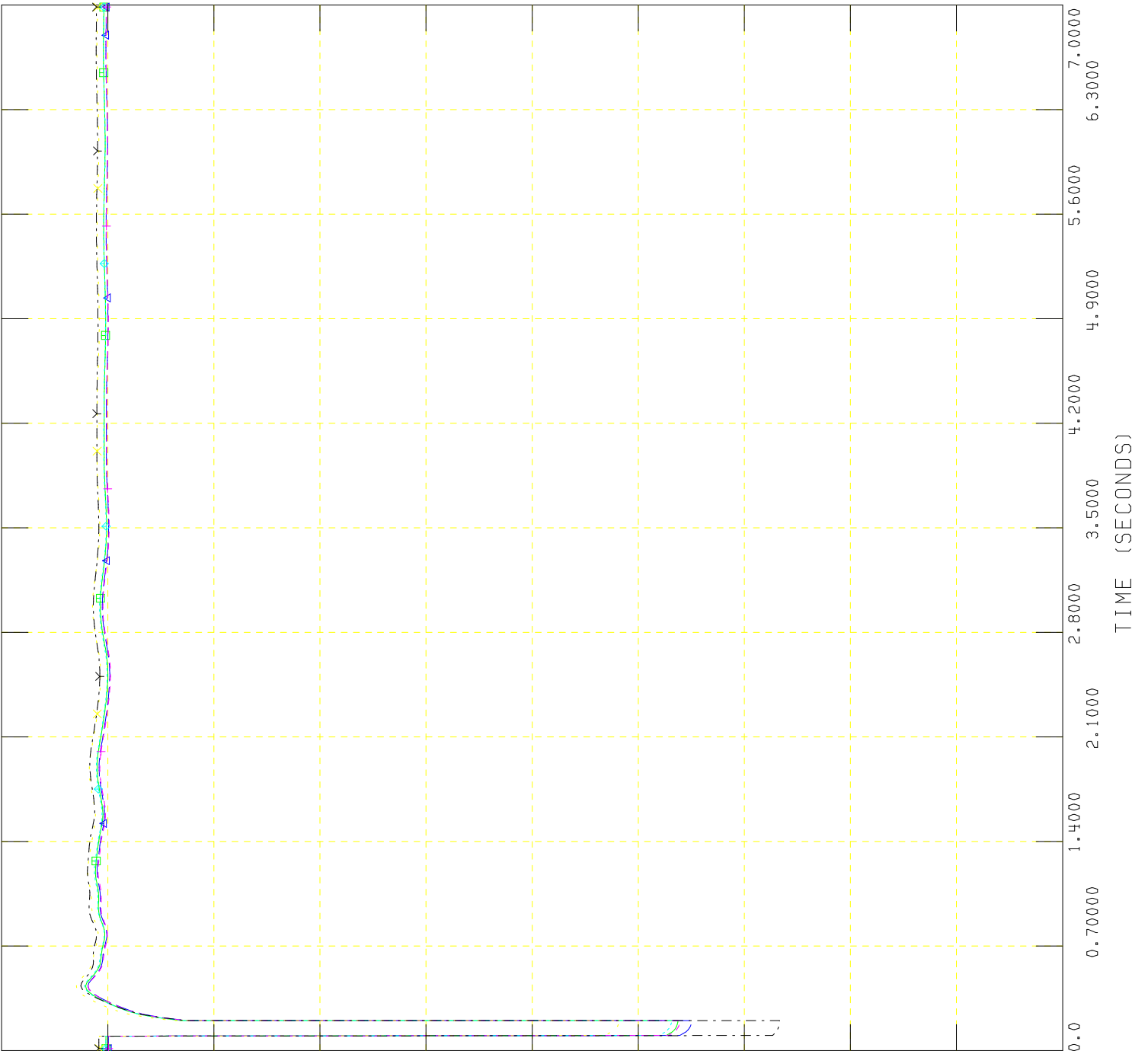
FRI, JUN 13 2008 14:49  
BUS VOLTAGES - 01



LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



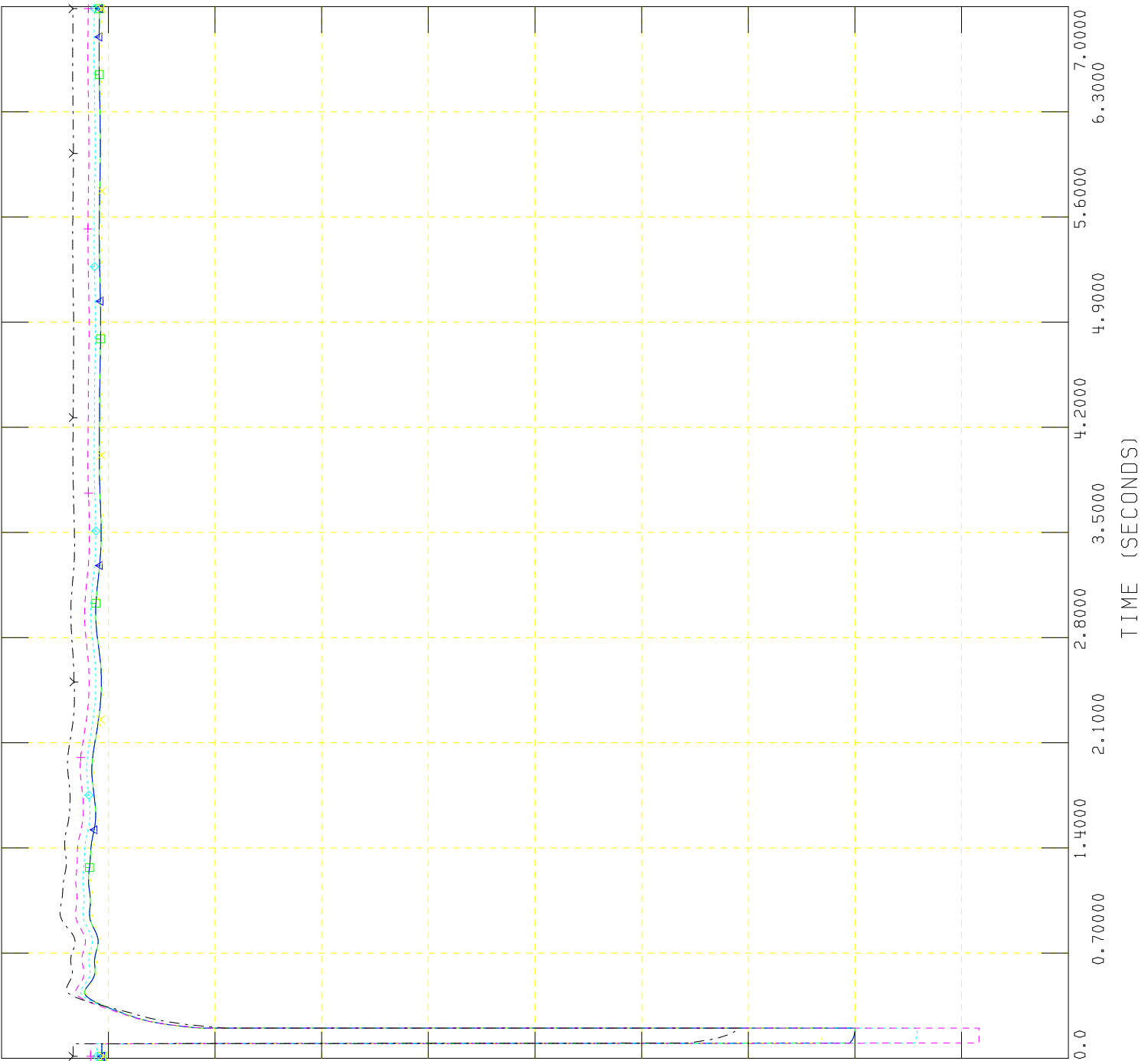
FRI, JUN 13 2008 14:49  
BUS VOLTAGES - 02



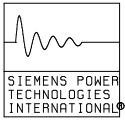
LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



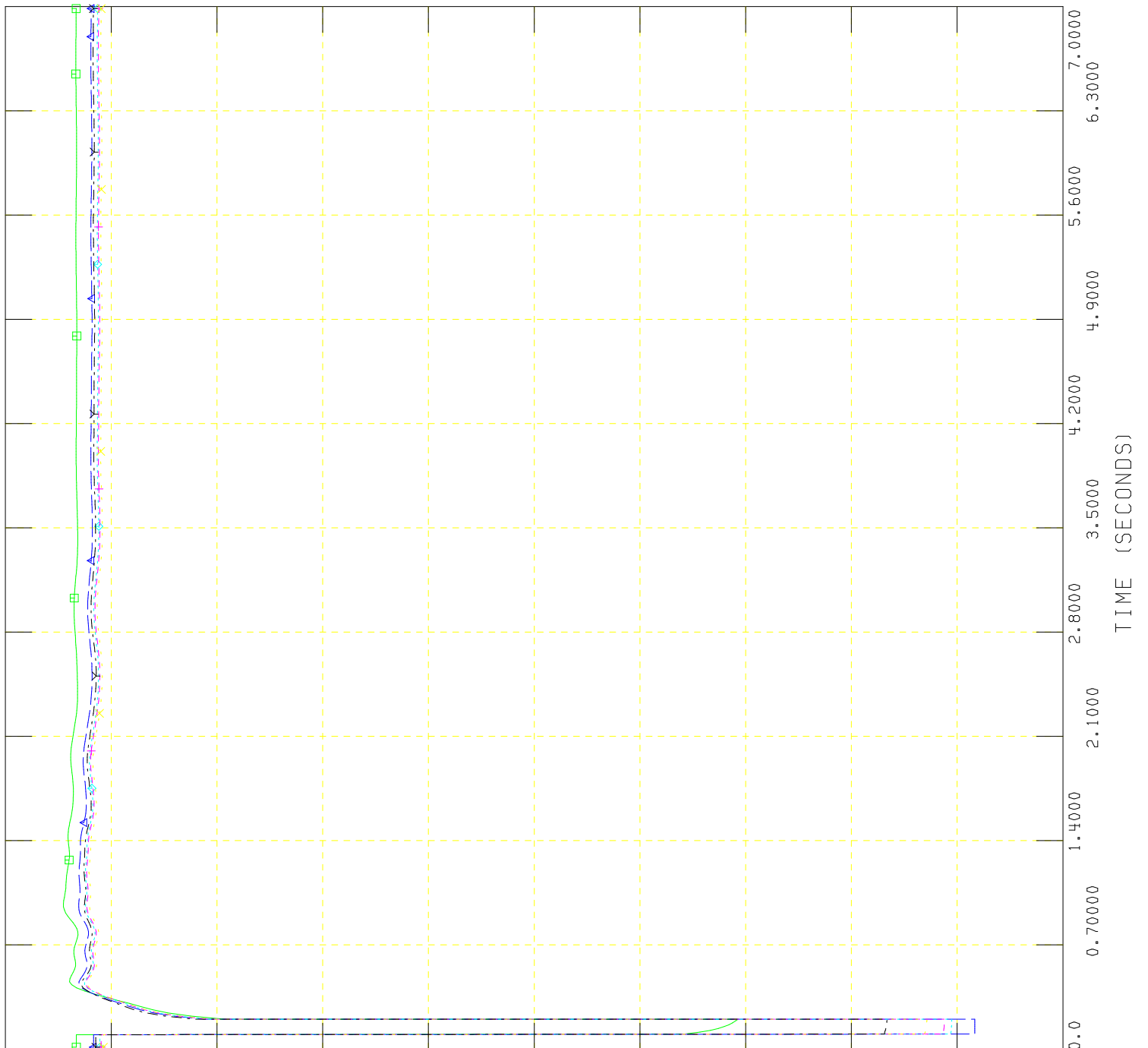
FRI, JUN 13 2008 14:49  
BUS VOLTAGES - 03



LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



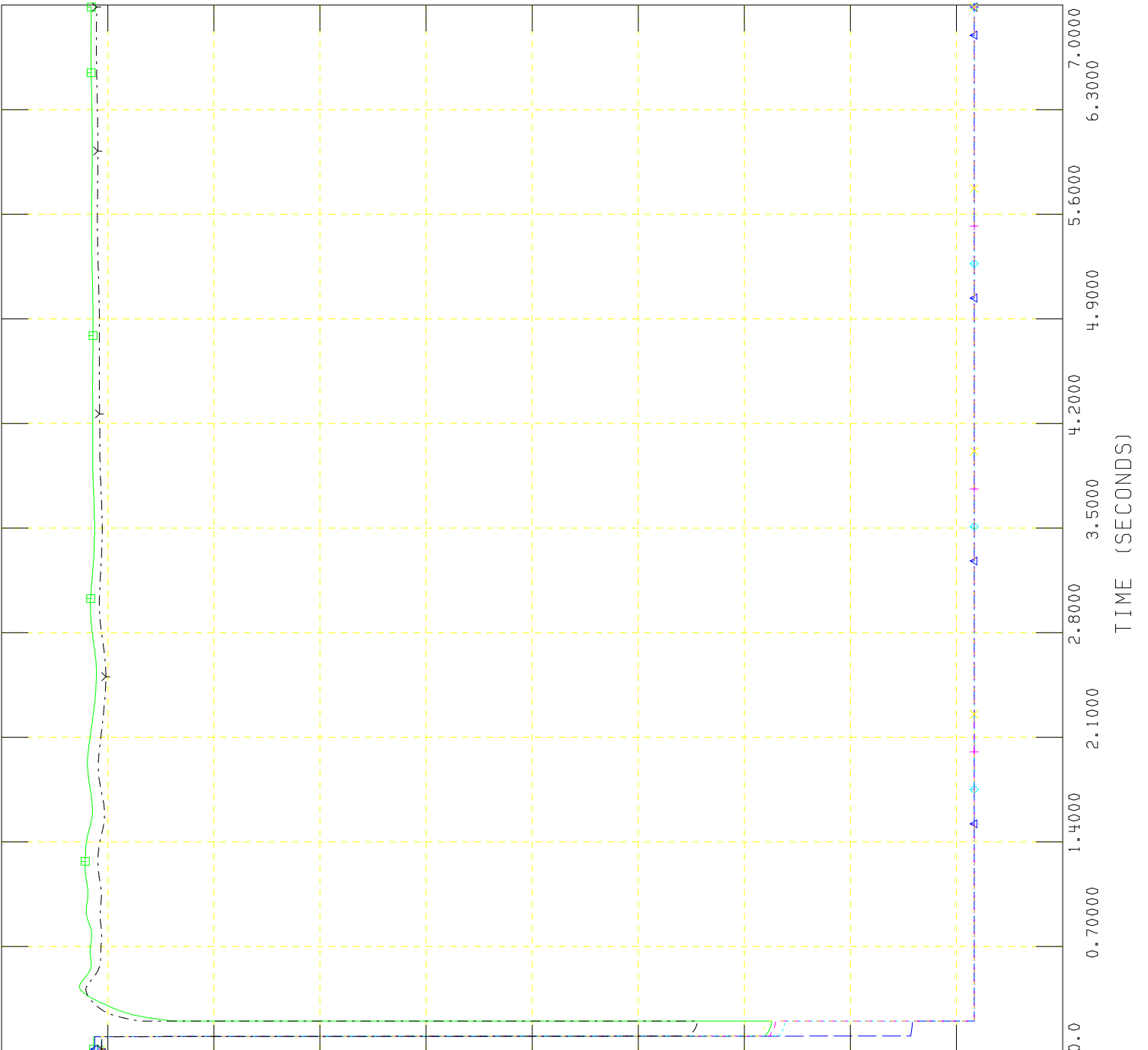
FRI, JUN 13 2008 14:49  
BUS VOLTAGES - 04



LC  
 LC-SECURITY  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURITY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



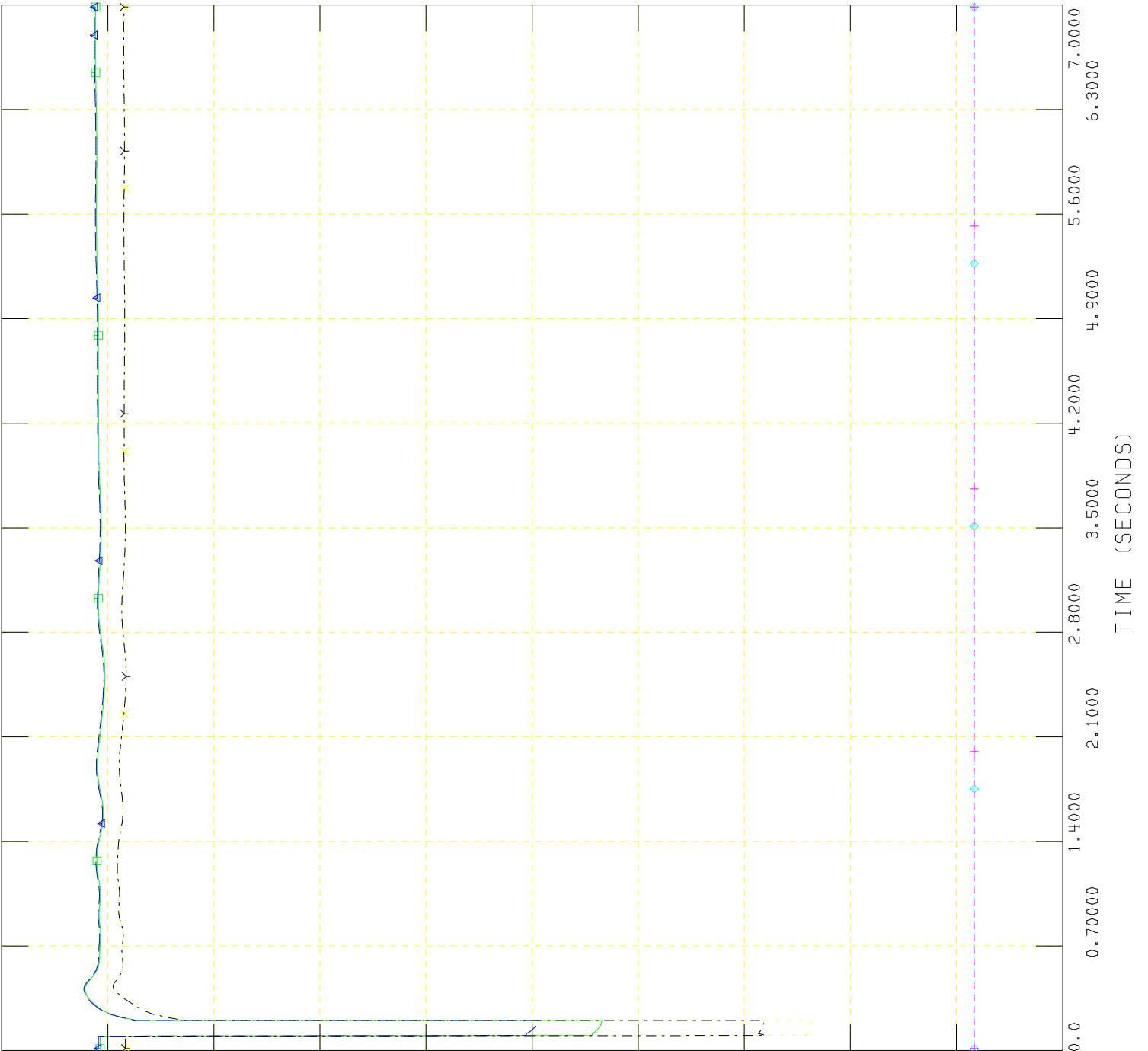
FRI, JUN 13 2008 14:49  
 BUS VOLTAGES - 05



LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



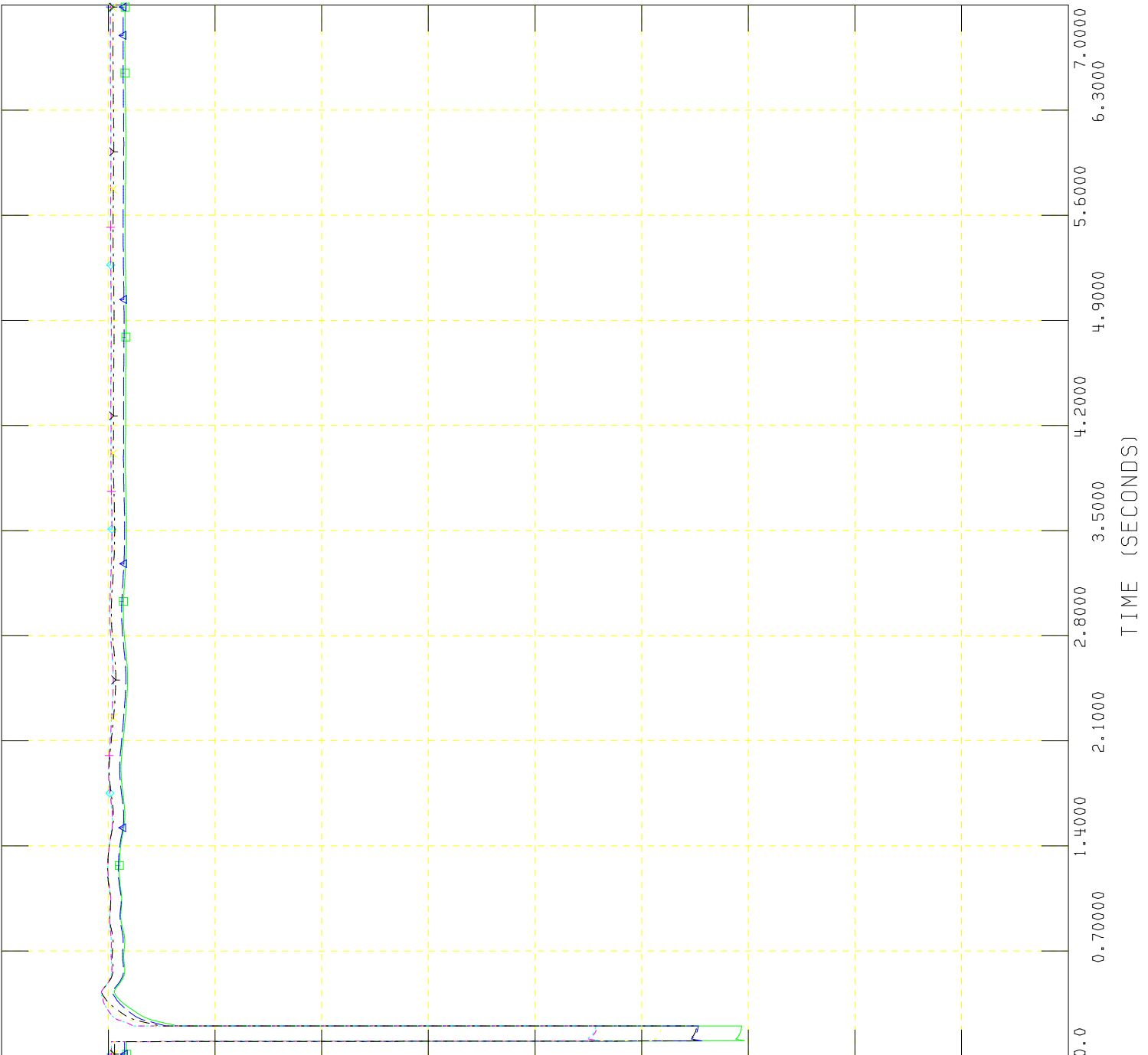
FRI, JUN 13 2008 14:49  
BUS VOLTAGES - 06



LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



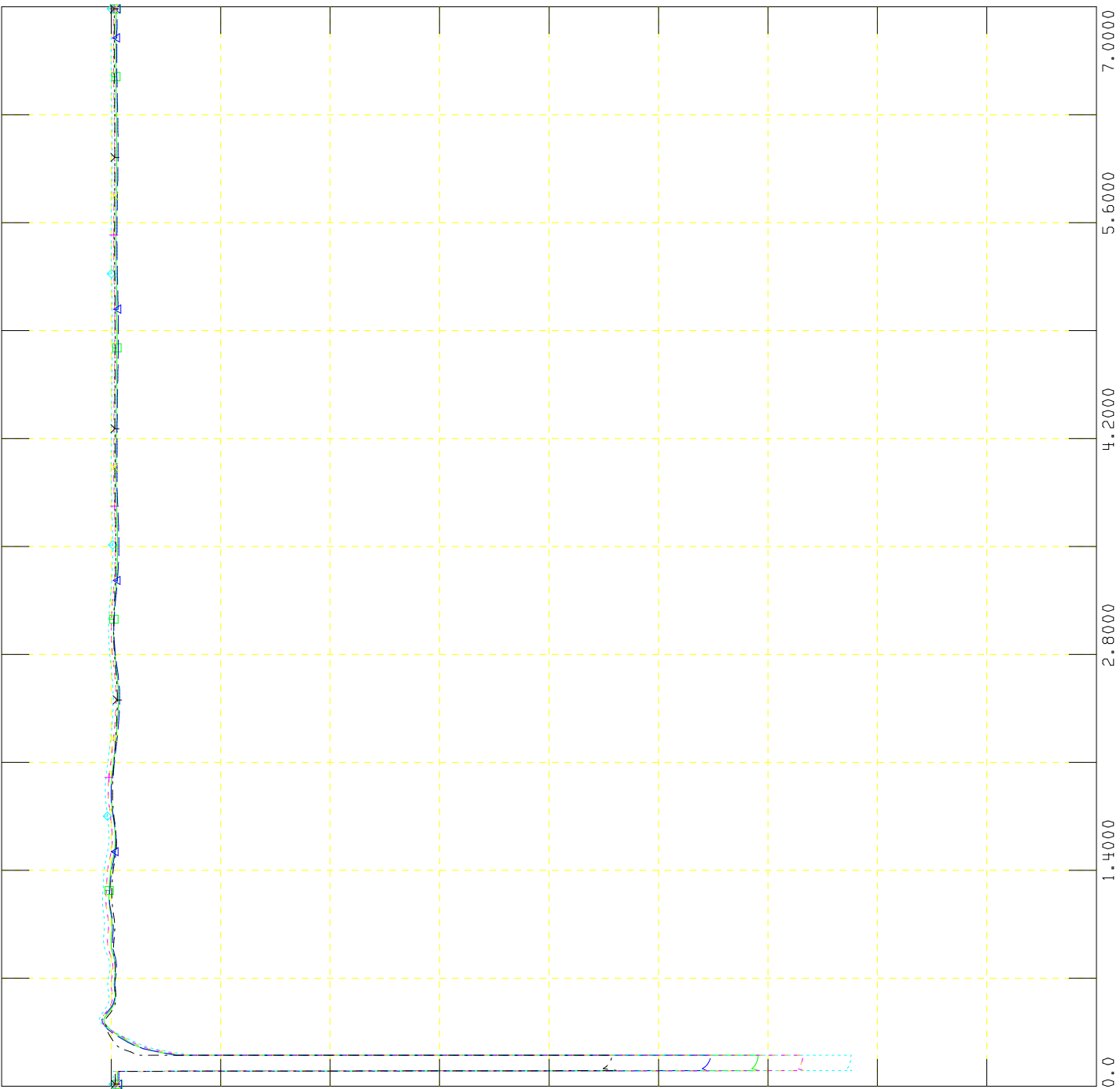
FRI, JUN 13 2008 14:49  
BUS VOLTAGES - 07



LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

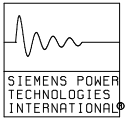
FILE: C:\Southwest Power Pool\LC-Security-4.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



FRI, JUN 13 2008 14:49  
BUS VOLTAGES - 08

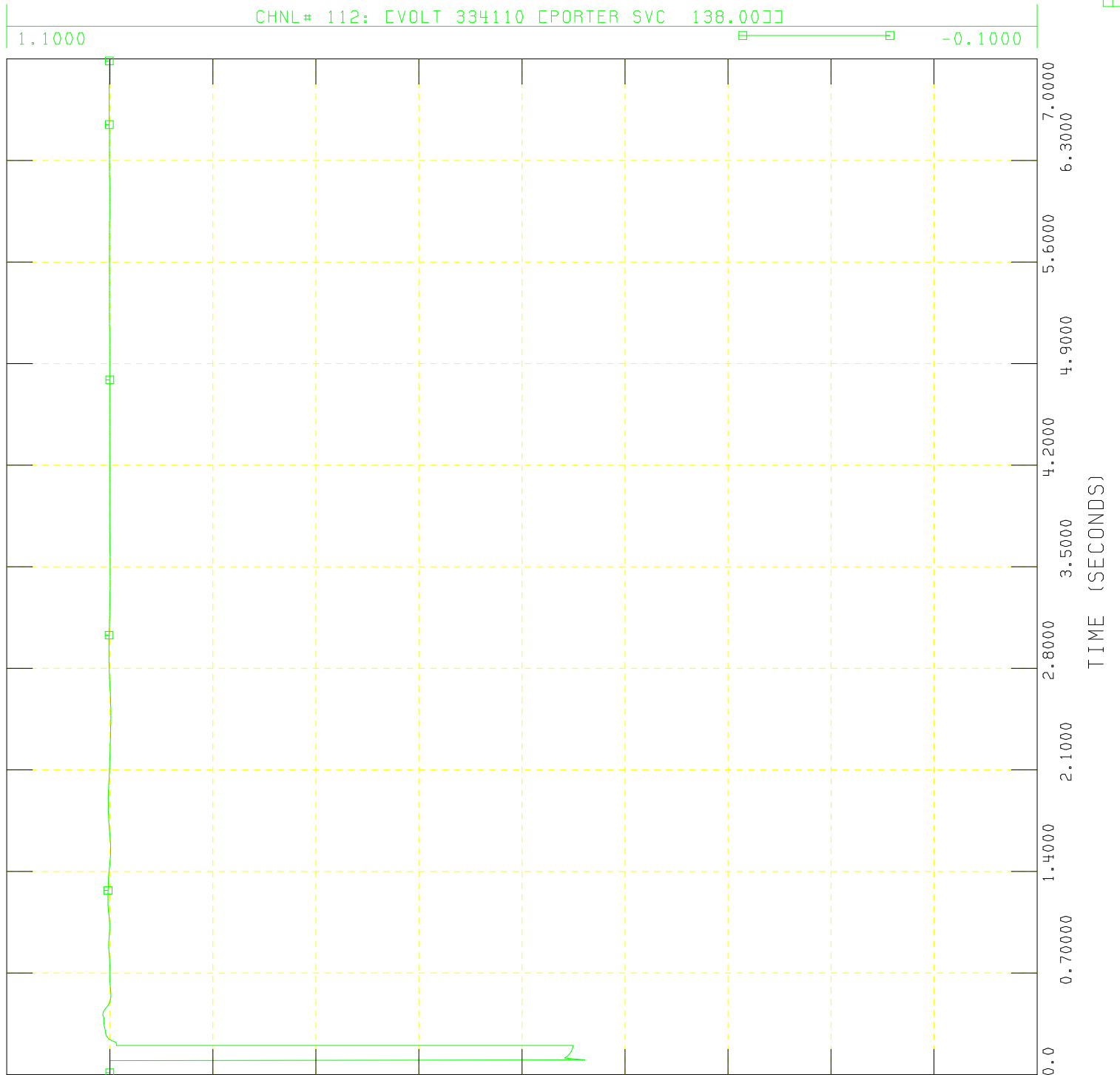




LC  
LC-SECURITY  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Security-4.out

FRI, JUN 13 2008 14:49  
BUS VOLTAGES - 09



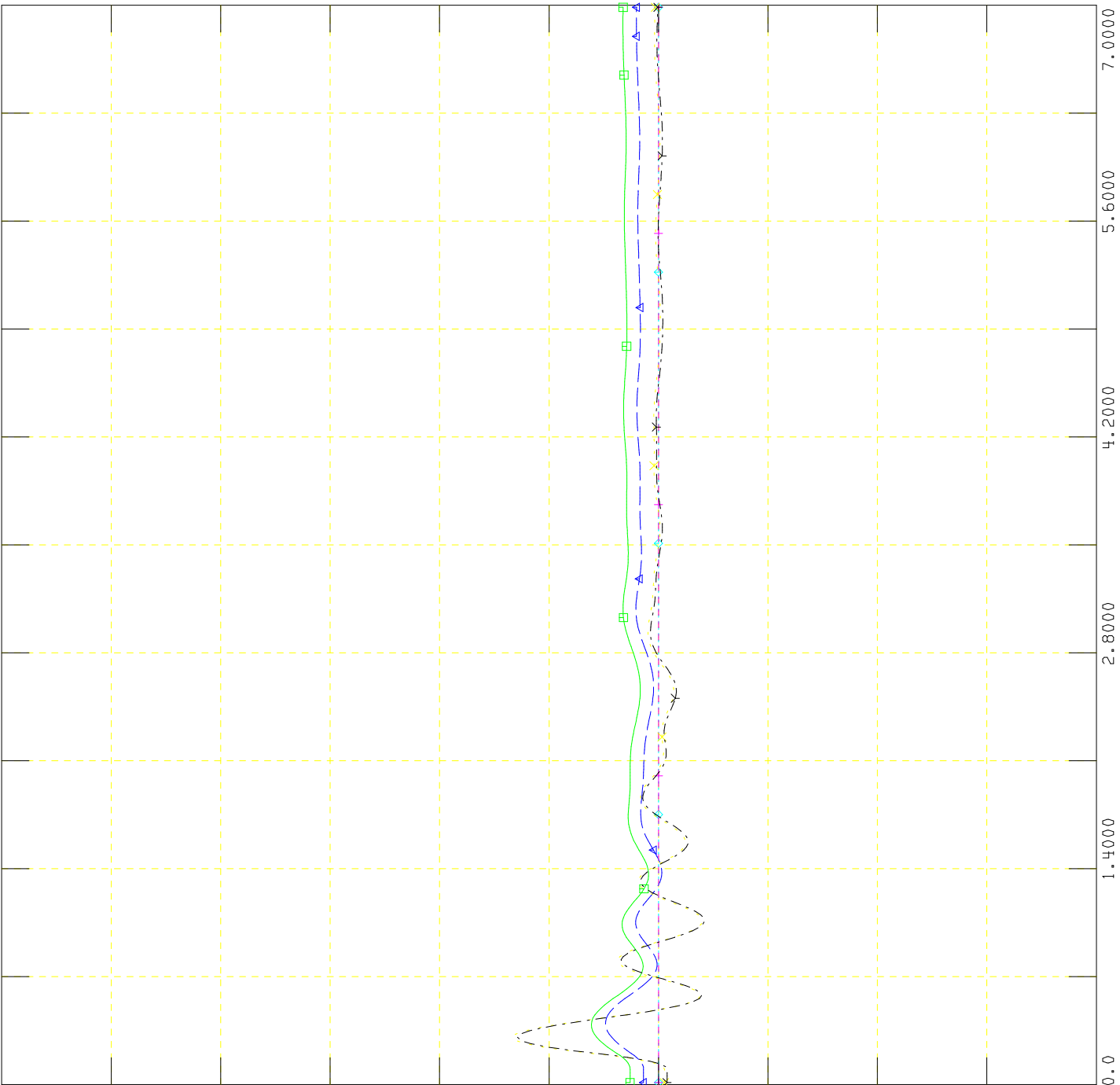
**FAULT 5**  
**Lewis Creek – Rivtrin 138 kV**  
**Normal Clearing Times**



LC  
 LC-RIVTRIN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
150.00	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
150.00	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
150.00	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
150.00	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
150.00	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



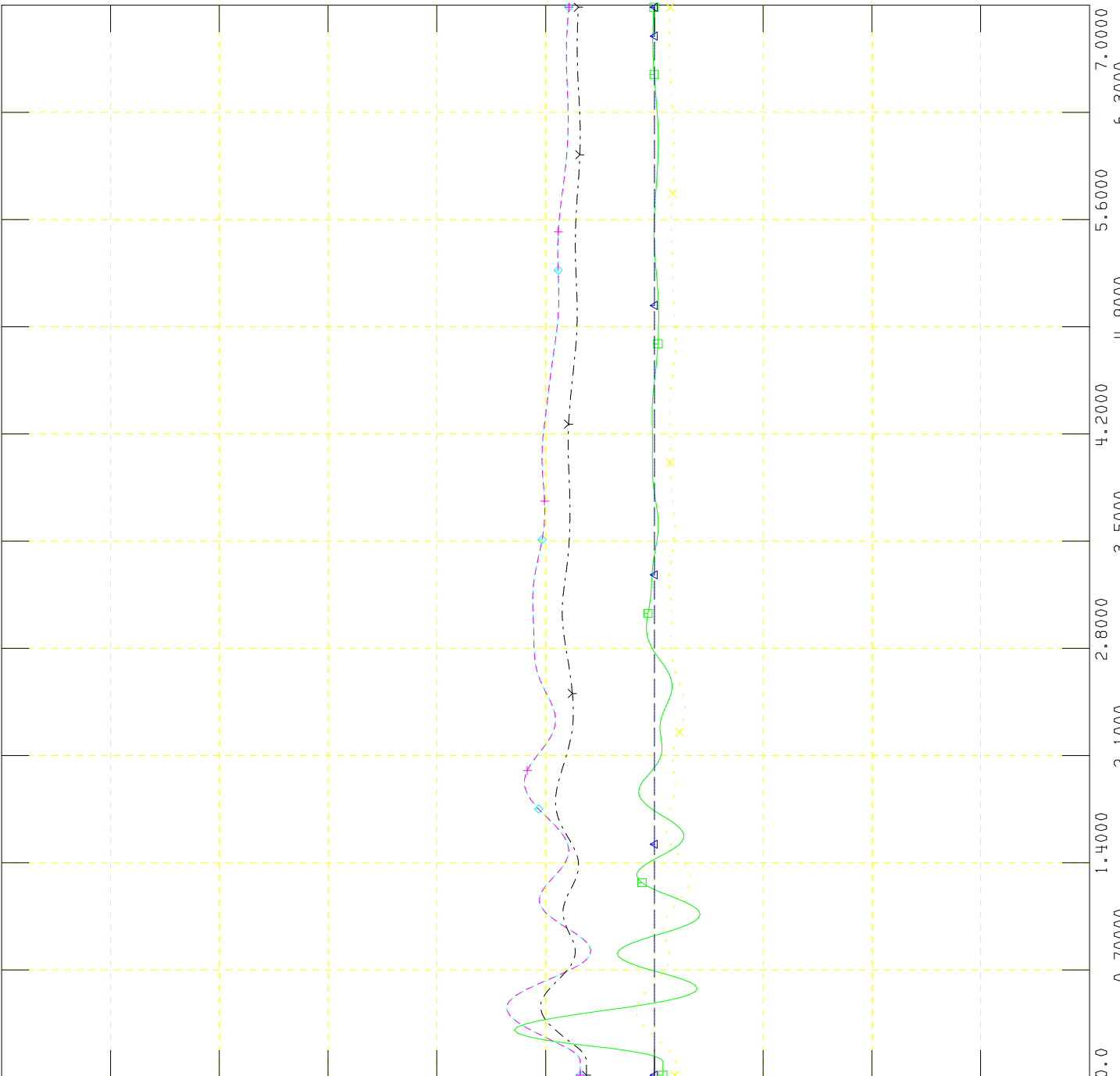
FRI, JUN 13 2008 14:51  
 MACHINE ANGLES - 01



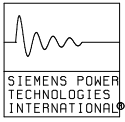
LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

Value	Channel Label	Symbol	Value
150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	→	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	×	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	+	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	◇	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	←	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	□	-100.0

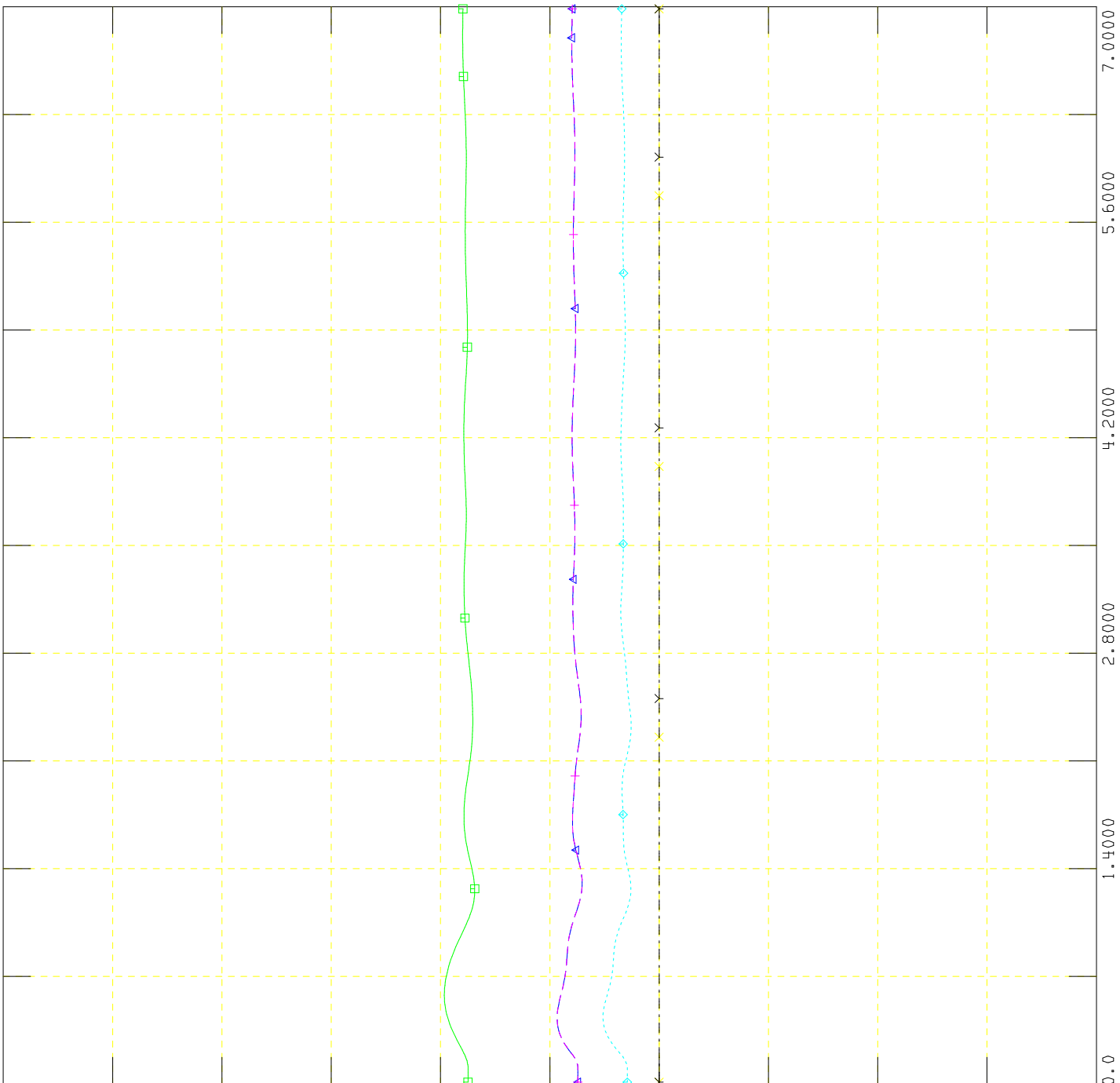
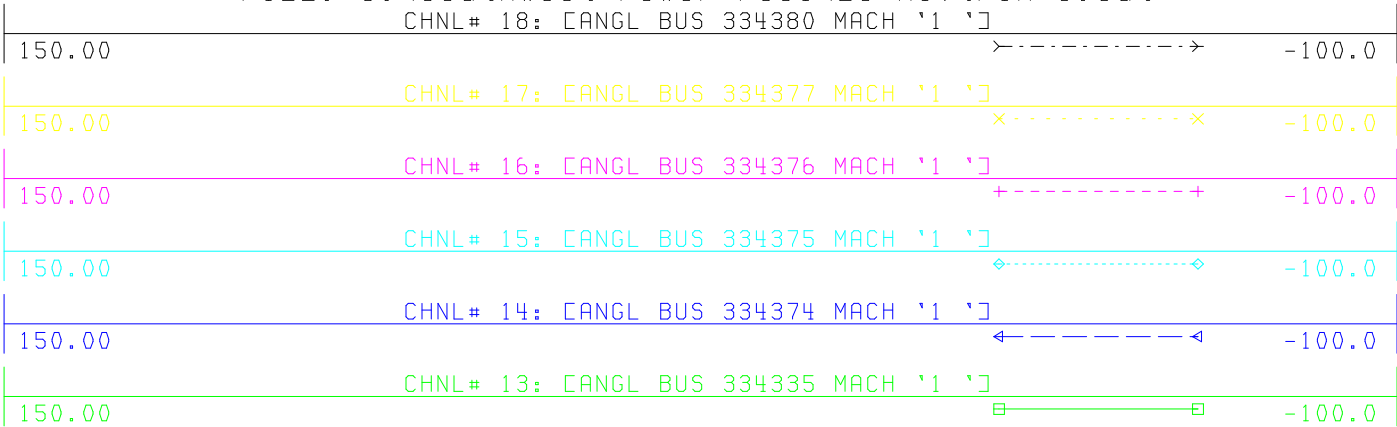


FRI, JUN 13 2008 14:51  
MACHINE ANGLES - 02



LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out



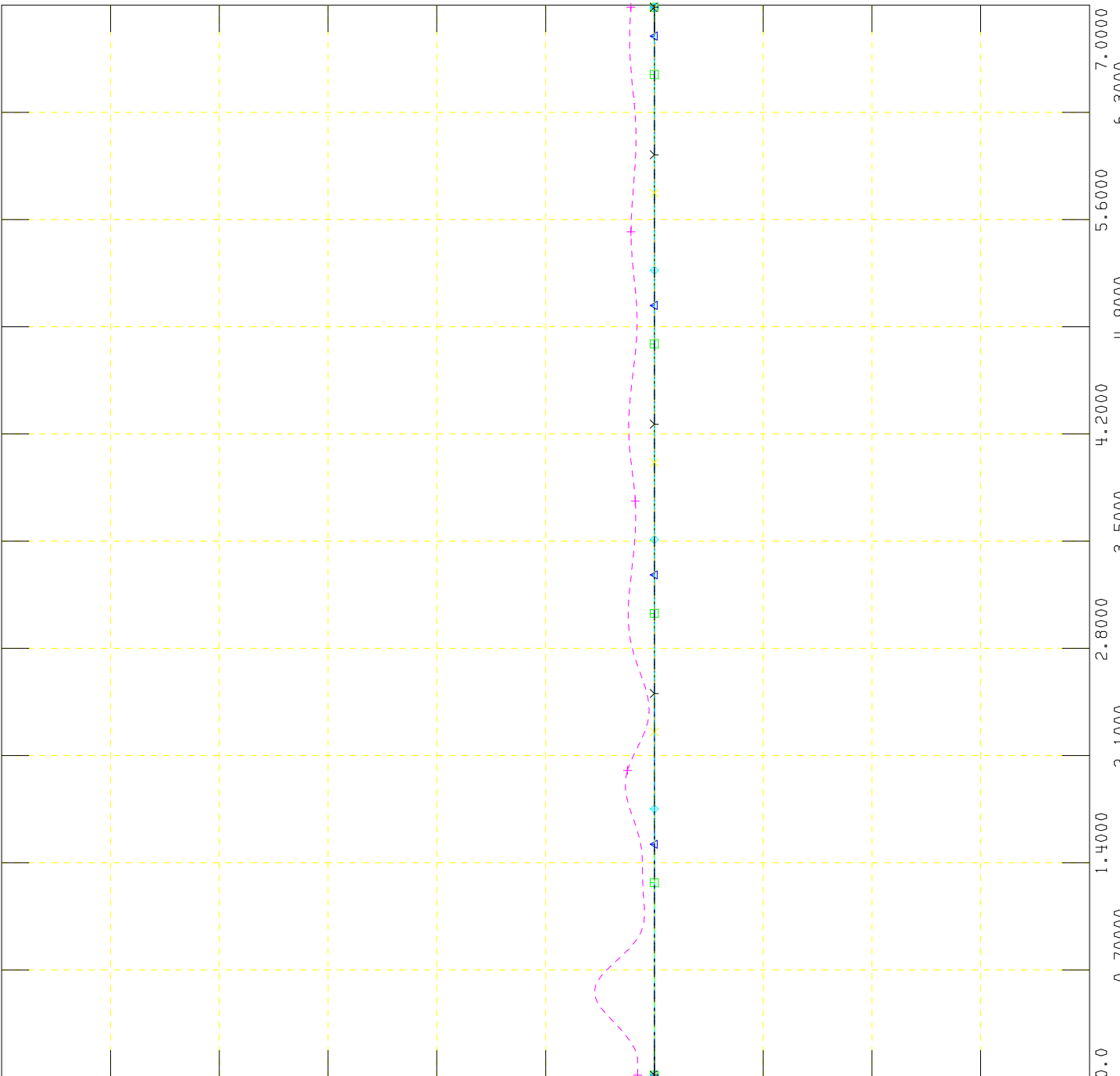
FRI, JUN 13 2008 14:51  
MACHINE ANGLES - 03



LC  
 LC-RIVTRIN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



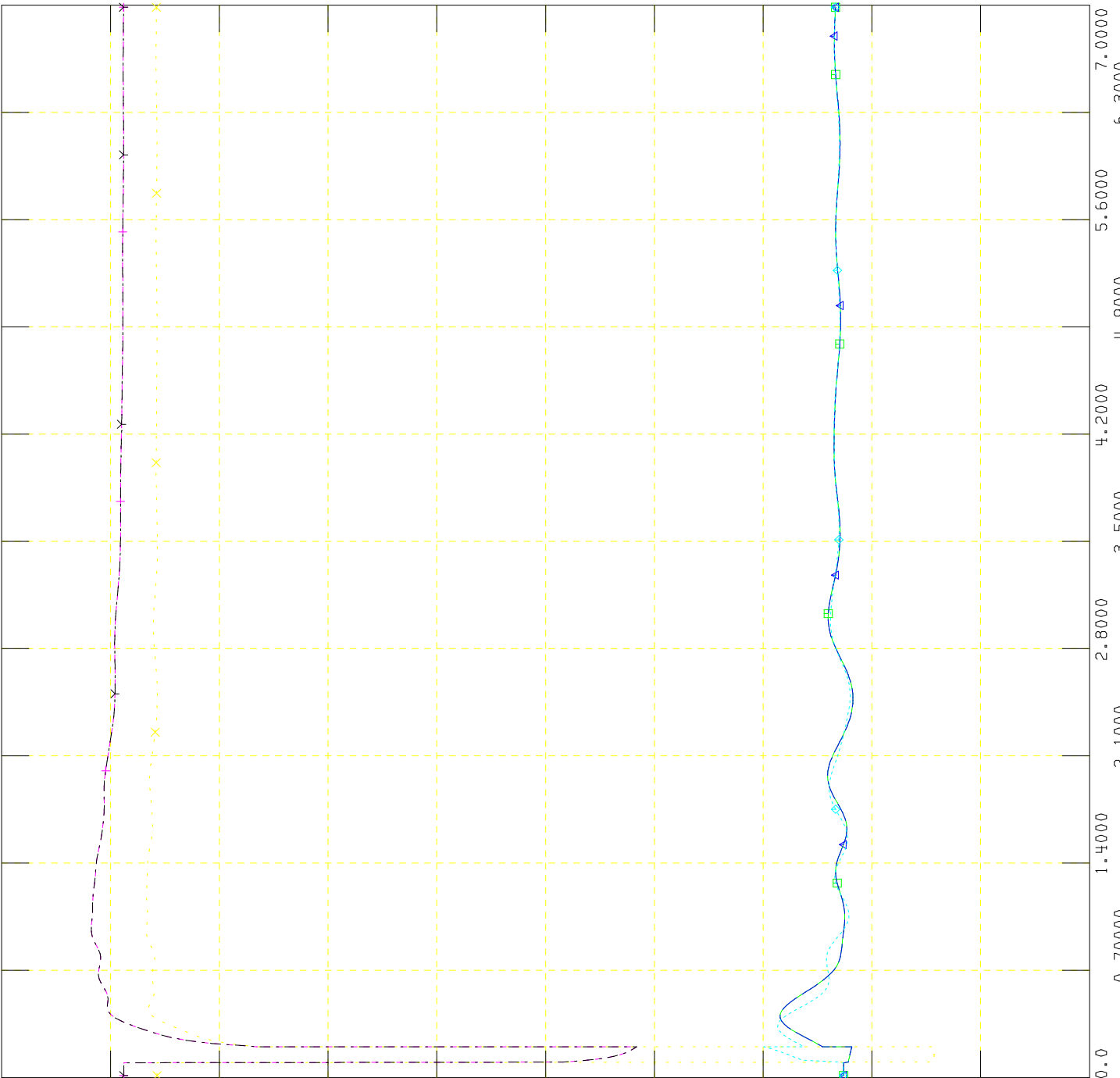
FRI, JUN 13 2008 14:51  
 MACHINE ANGLES - 04



LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



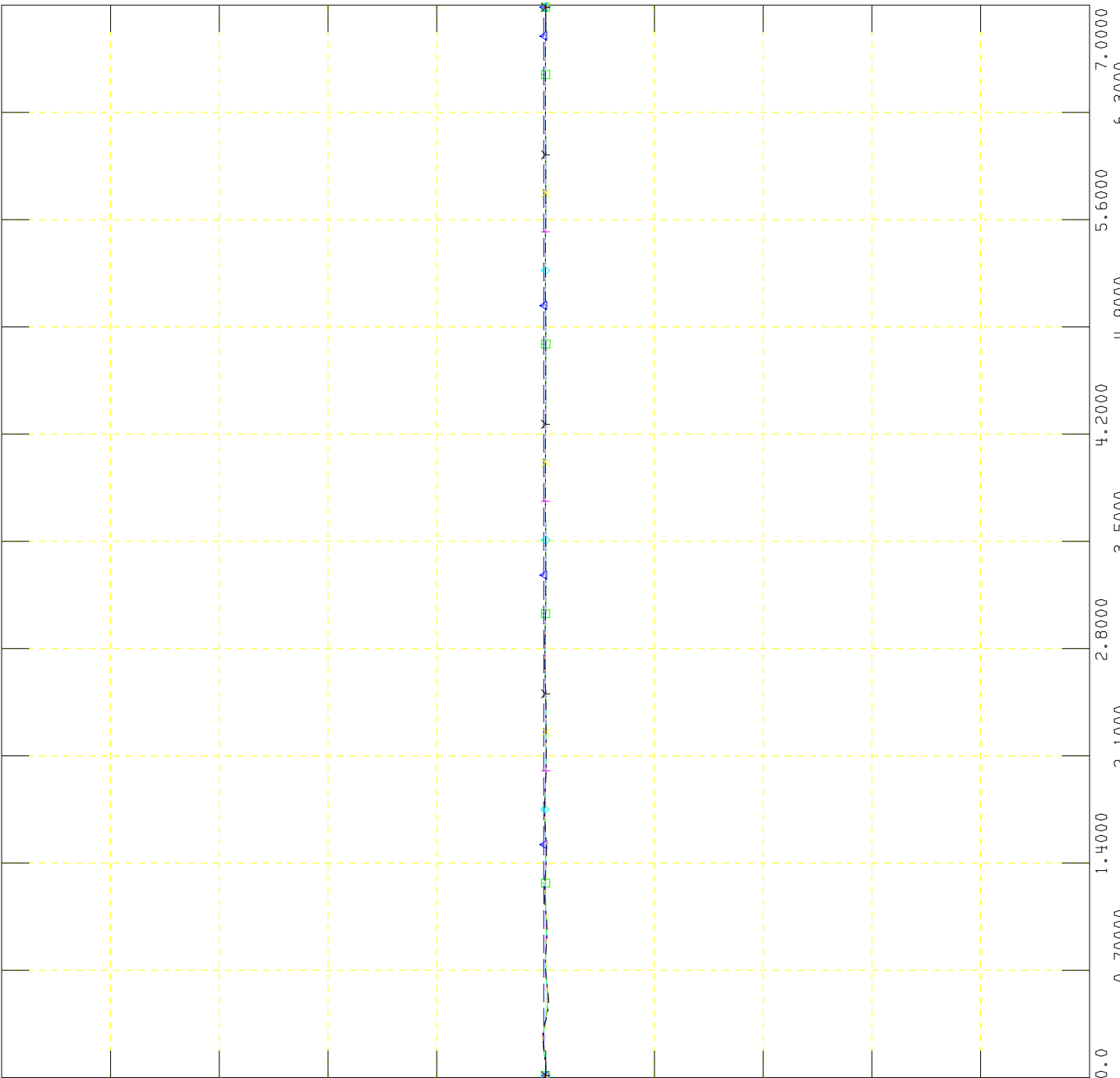
FRI, JUN 13 2008 14:51  
ANG & VOLT - PID-211 GENS



LC  
 LC-RIVTRIN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

0.50000	CHNL# 41: [FREQ 334065 [4LACON 138.00]]	-0.50000
0.50000	CHNL# 40: [FREQ 334064 [8LNG 413 138.00]]	-0.50000
0.50000	CHNL# 39: [FREQ 334063 [4EVGRN* 138.00]]	-0.50000
0.50000	CHNL# 38: [FREQ 334062 [4TEMCO 138.00]]	-0.50000
0.50000	CHNL# 37: [FREQ 334061 [4GOREE 138.00]]	-0.50000
0.50000	CHNL# 36: [FREQ 334060 [4MT.ZION 138.00]]	-0.50000



FRI, JUN 13 2008 14:51  
 MACHINE FREQUENCIES - 01

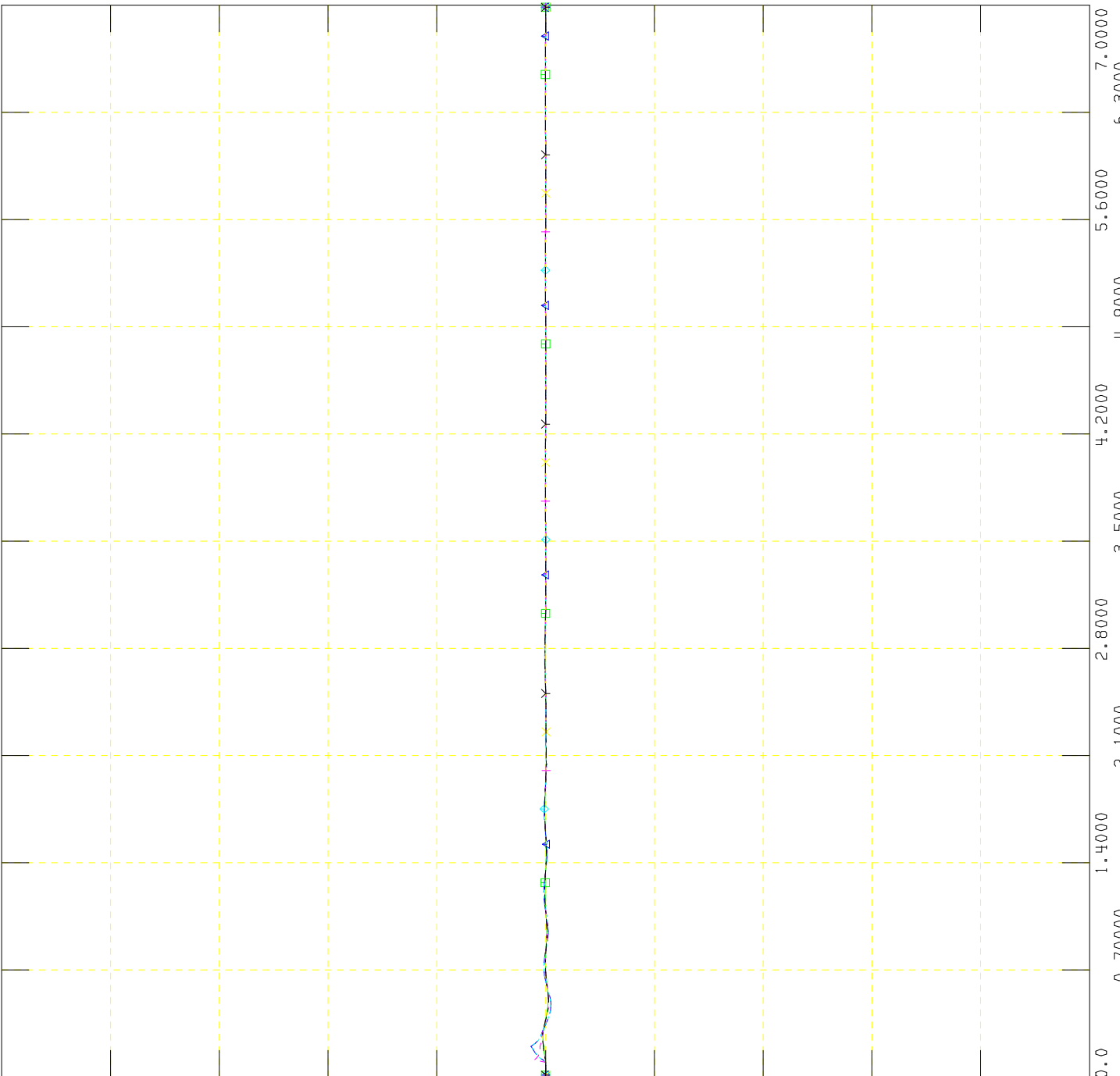




LC  
 LC-RIVTRIN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



FRI, JUN 13 2008 14:51  
 MACHINE FREQUENCIES - 02

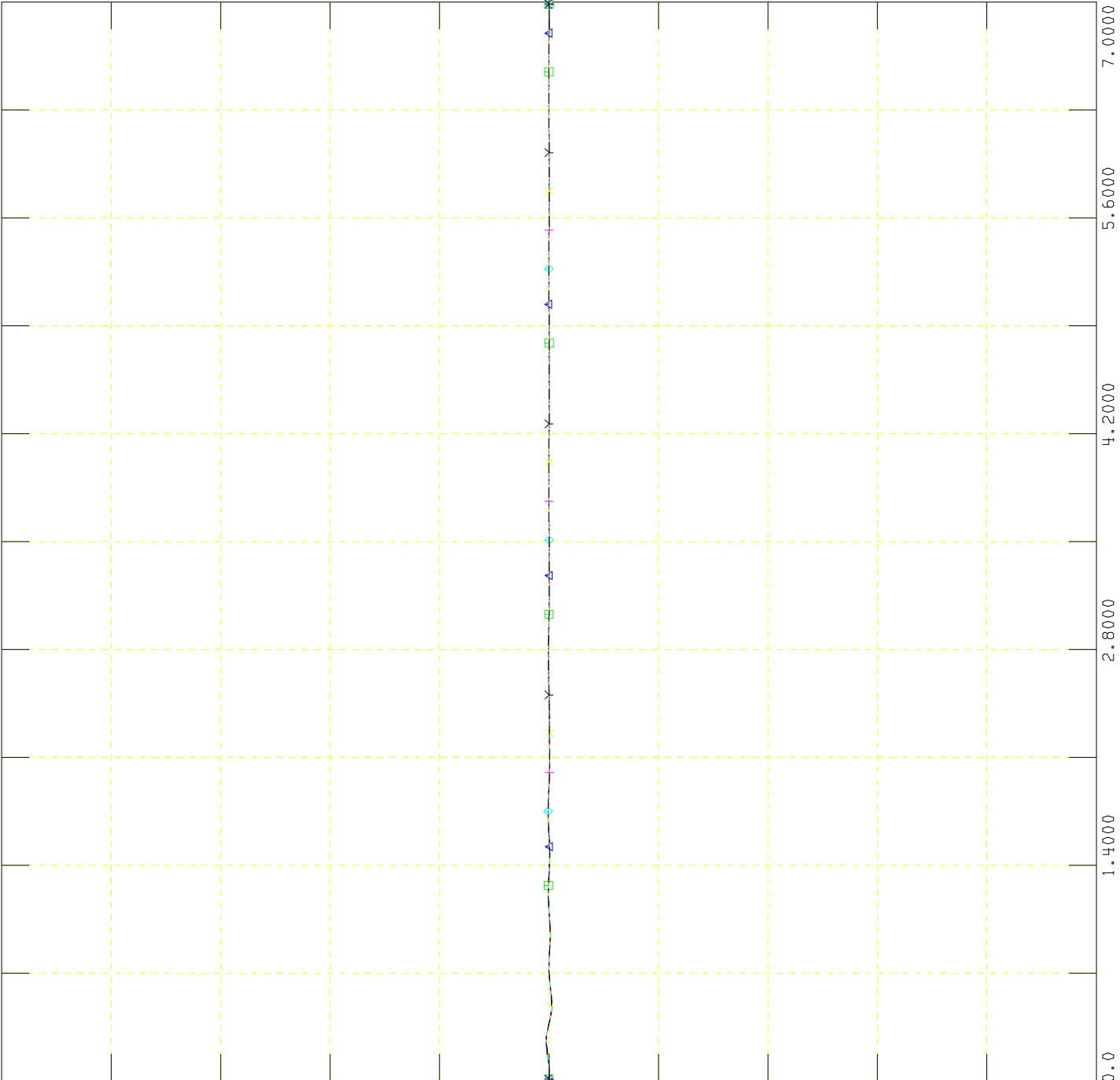
TIME (SECONDS)



LC  
 LC-RIVTRIN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

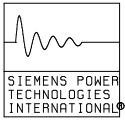
0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



FRI, JUN 13 2008 14:51  
 MACHINE FREQUENCIES - 03

TIME (SECONDS)



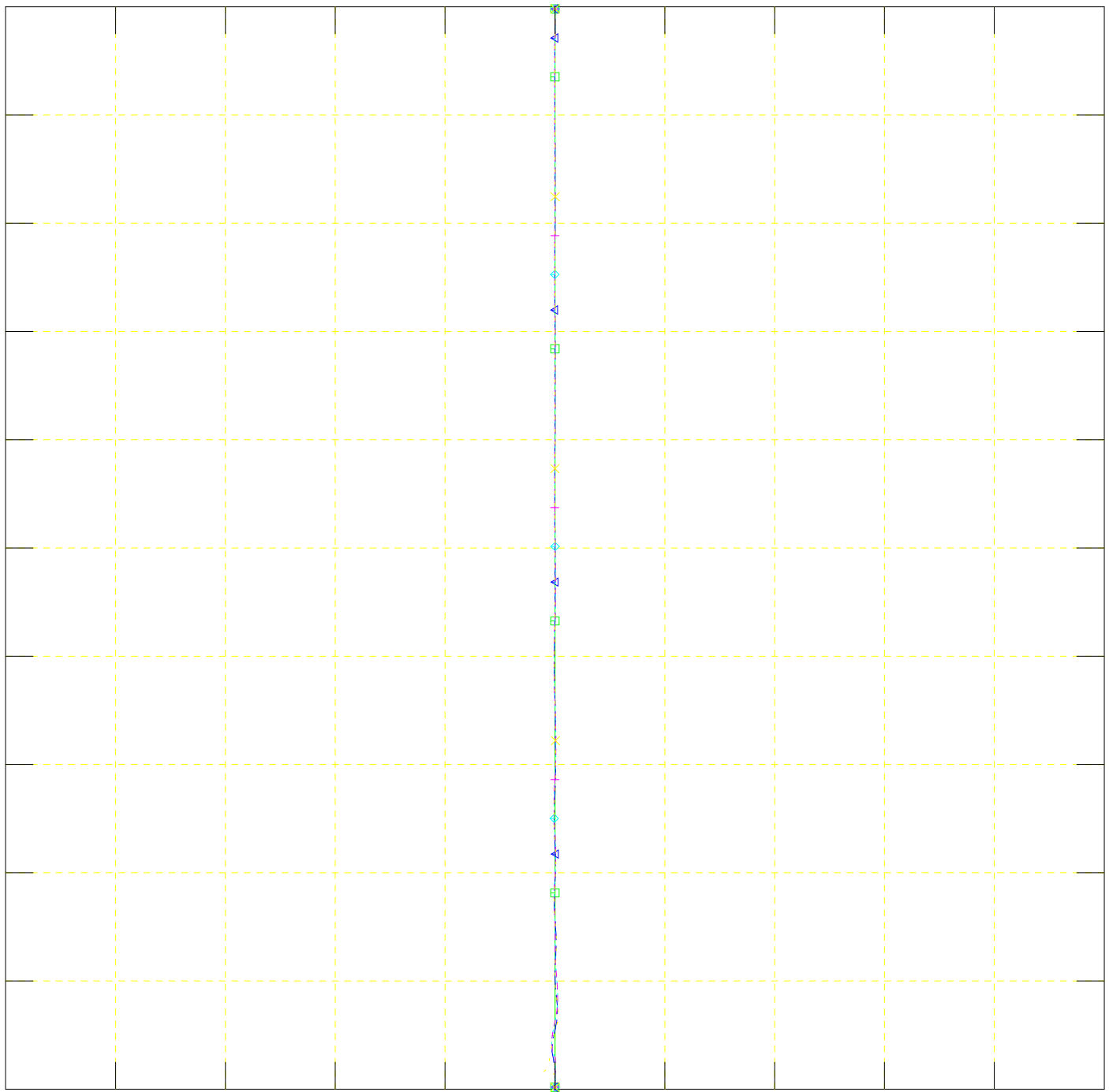


LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

FRI, JUN 13 2008 14:51  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value	Symbol
CHNL# 63	CFREQ 99183 [G3PID211	18.000]]	x
CHNL# 62	CFREQ 99182 [G2PID211	18.000]]	+
CHNL# 61	CFREQ 99181 [G1PID211	18.000]]	◇
CHNL# 60	CFREQ 334090 [4ALDEN	138.00]]	△
CHNL# 59	CFREQ 334086 [6CONROE	230.00]]	□

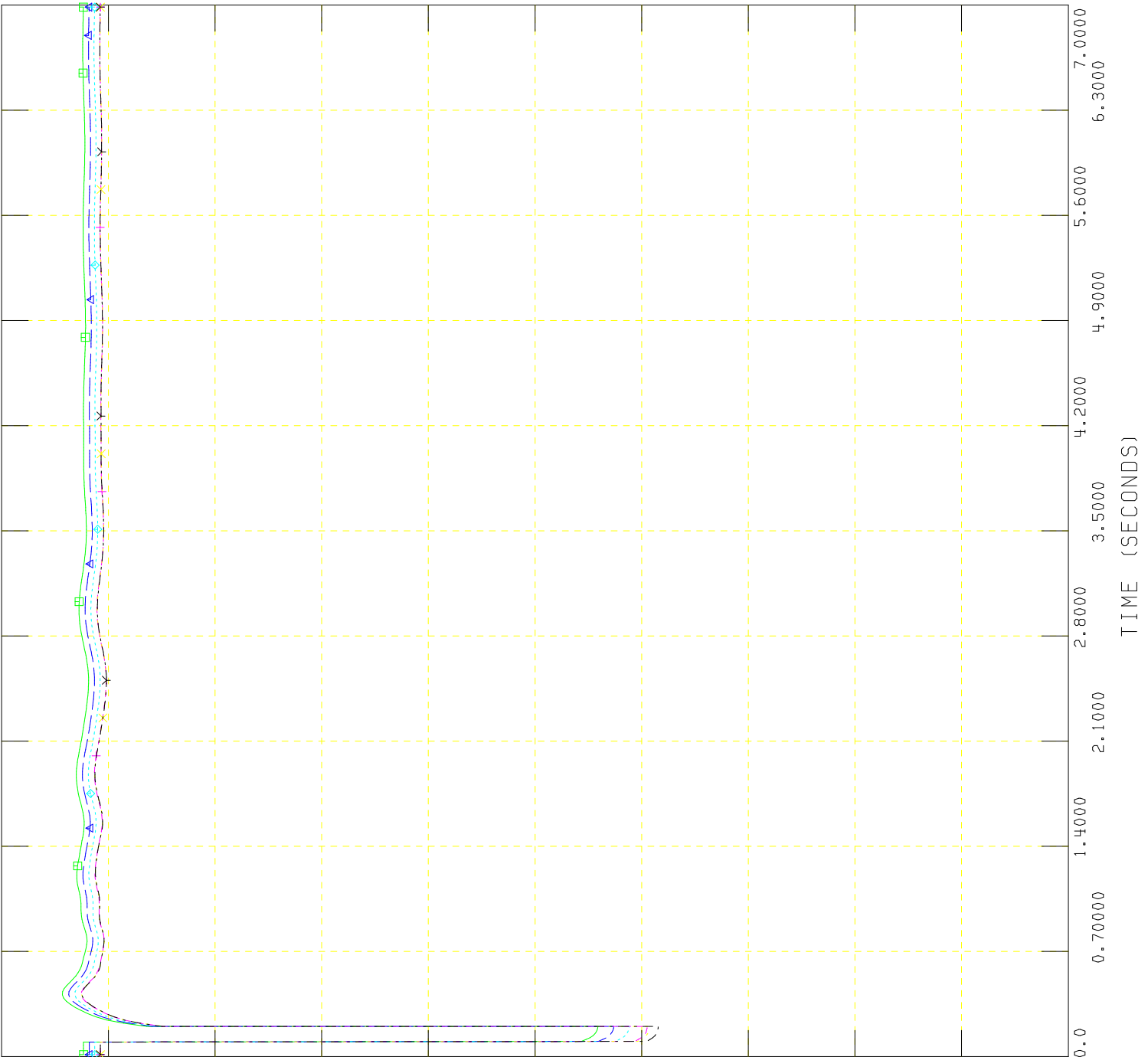




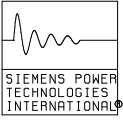
LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



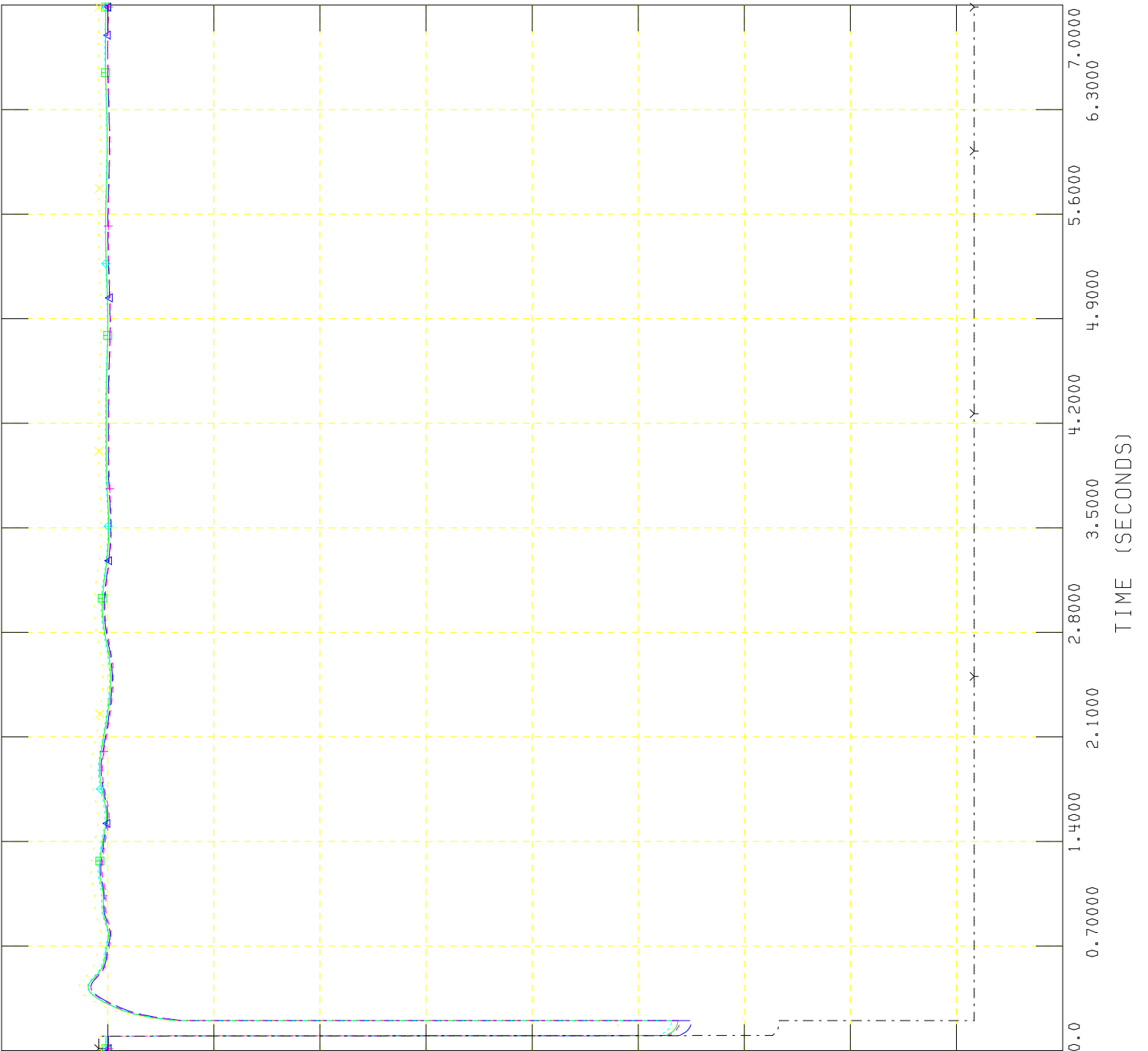
FRI, JUN 13 2008 14:51  
BUS VOLTAGES - 01



LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



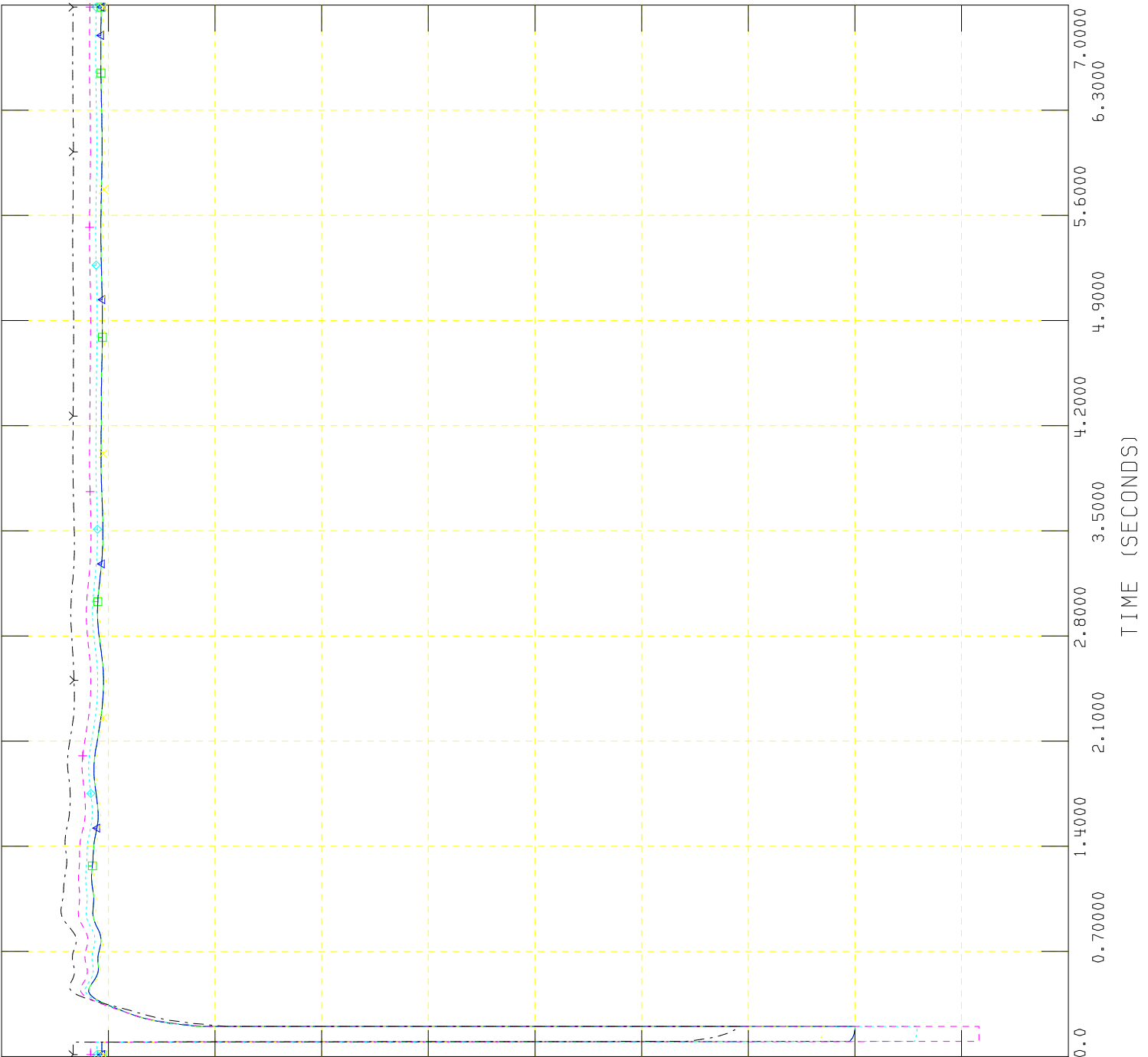
FRI, JUN 13 2008 14:51  
BUS VOLTAGES - 02



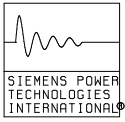
LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

Channel	Value	Unit
CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	1.1000	-0.1000
CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	1.1000	-0.1000
CHNL# 79: [VOLT 334065 [4LACON 138.00]]	1.1000	-0.1000
CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	1.1000	-0.1000
CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	1.1000	-0.1000
CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	1.1000	-0.1000



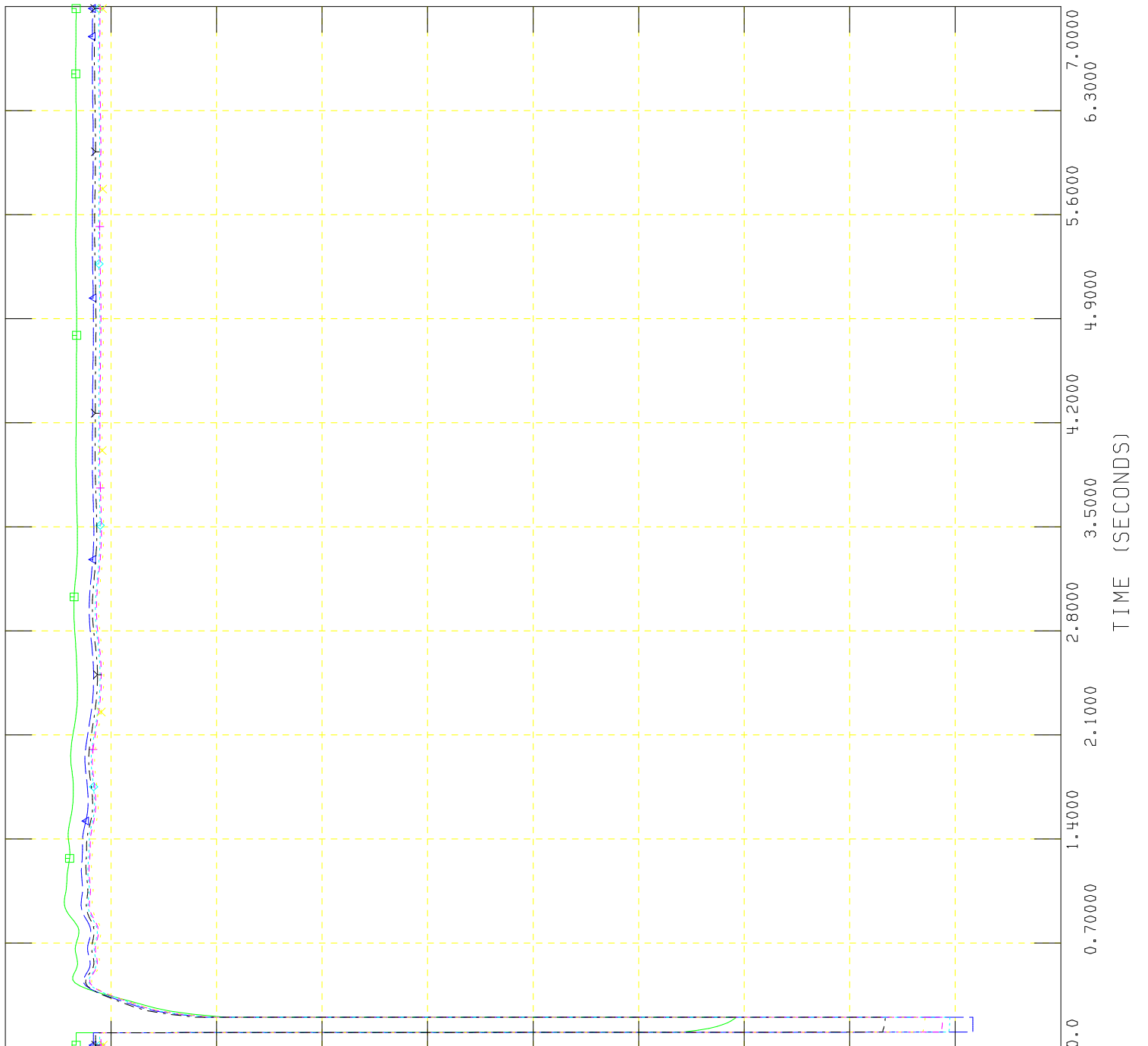
FRI, JUN 13 2008 14:51  
BUS VOLTAGES - 03



LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



FRI, JUN 13 2008 14:51  
BUS VOLTAGES - 04

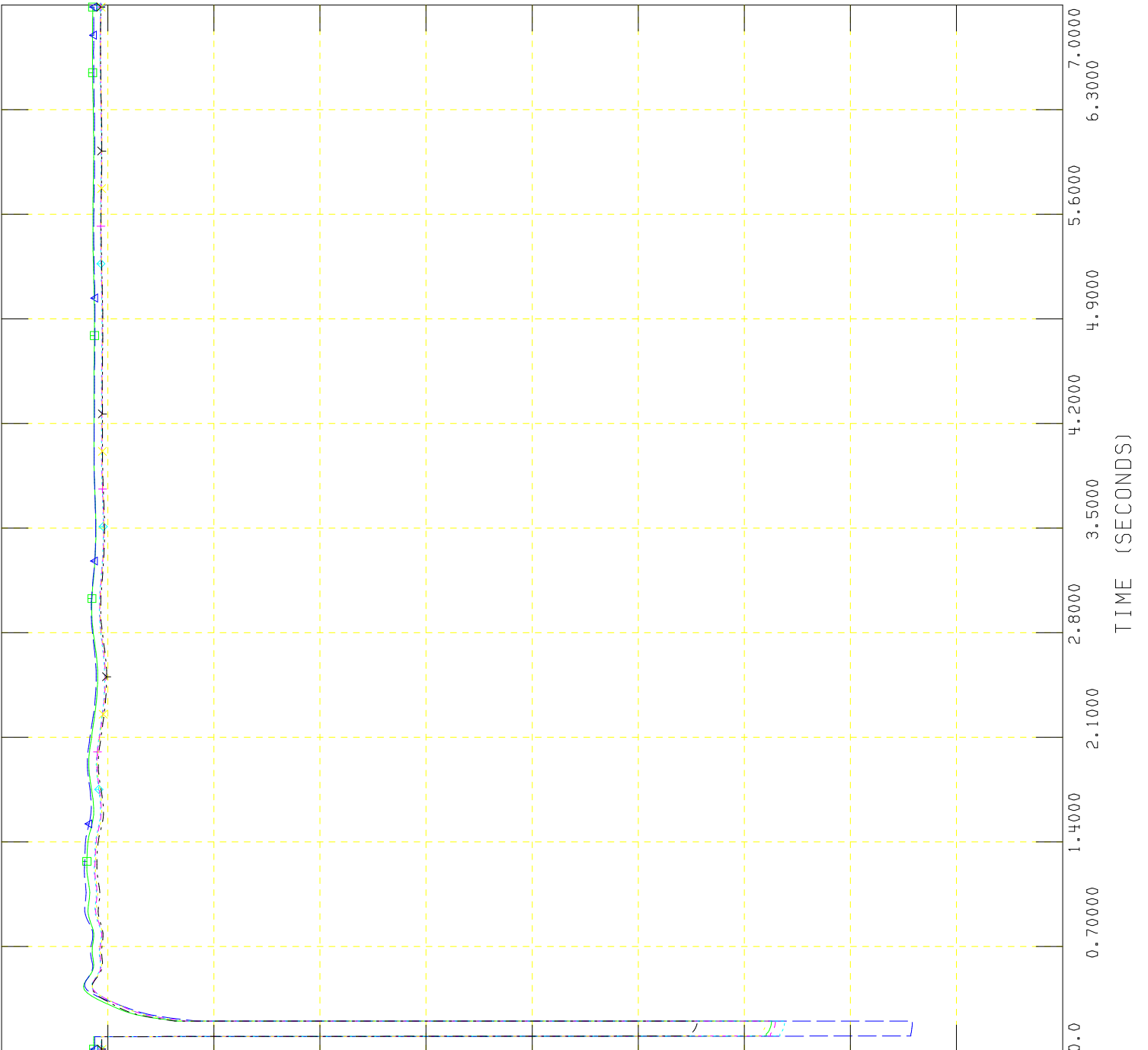




LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



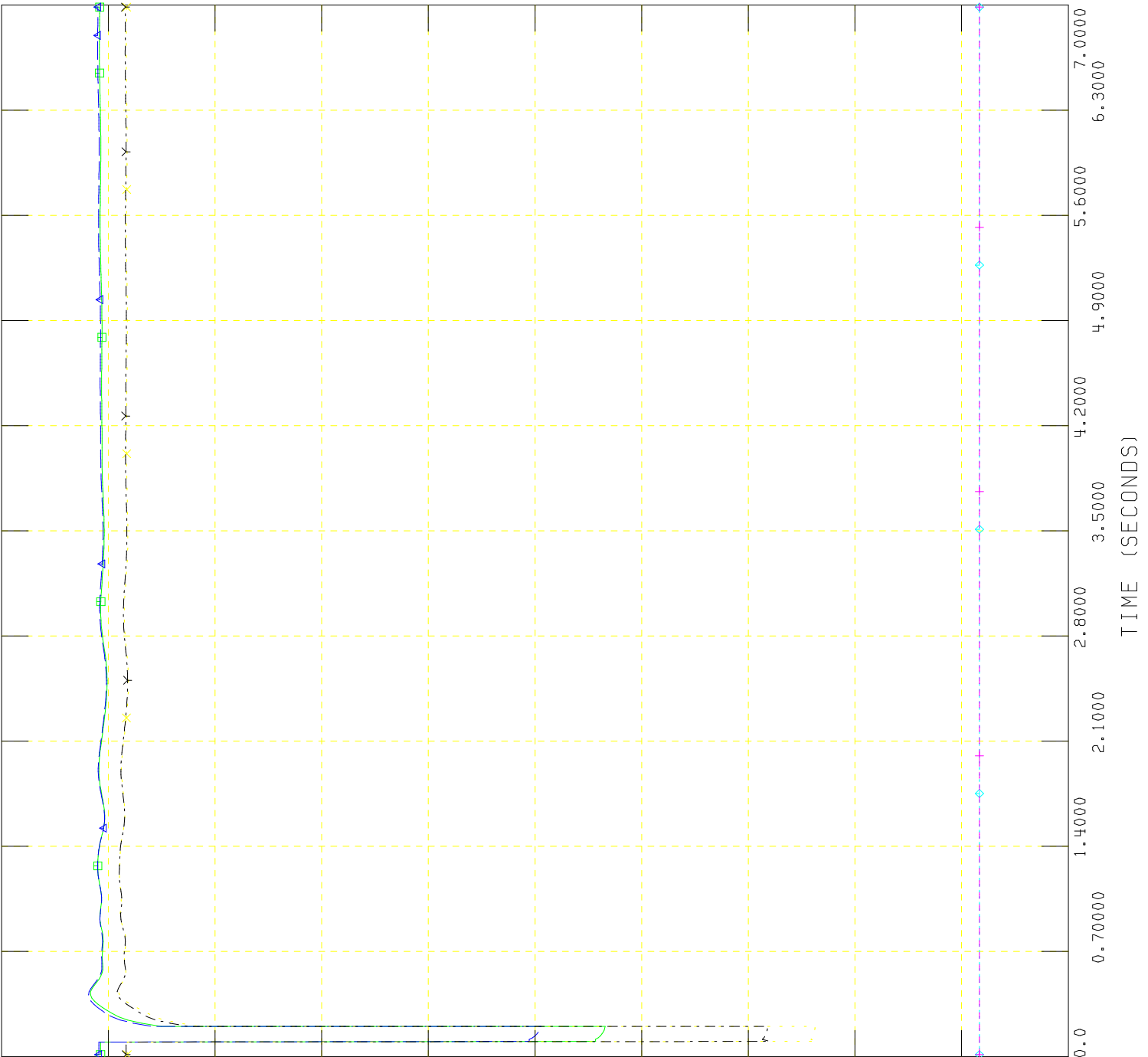
FRI, JUN 13 2008 14:51  
BUS VOLTAGES - 05



LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

Channel	Label	Value	Marker
CHNL# 99	[VOLT 334091 [4GOSLIN 138.00]]	138.00	→
CHNL# 98	[VOLT 334090 [4ALDEN 138.00]]	138.00	×
CHNL# 97	[VOLT 334086 [6CONROE 230.00]]	230.00	+
CHNL# 96	[VOLT 334085 [6LEWISCREEK 230.00]]	230.00	◇
CHNL# 95	[VOLT 334084 [4CLVELND 138.00]]	138.00	←
CHNL# 94	[VOLT 334083 [4JAYHAWK 138.00]]	138.00	■



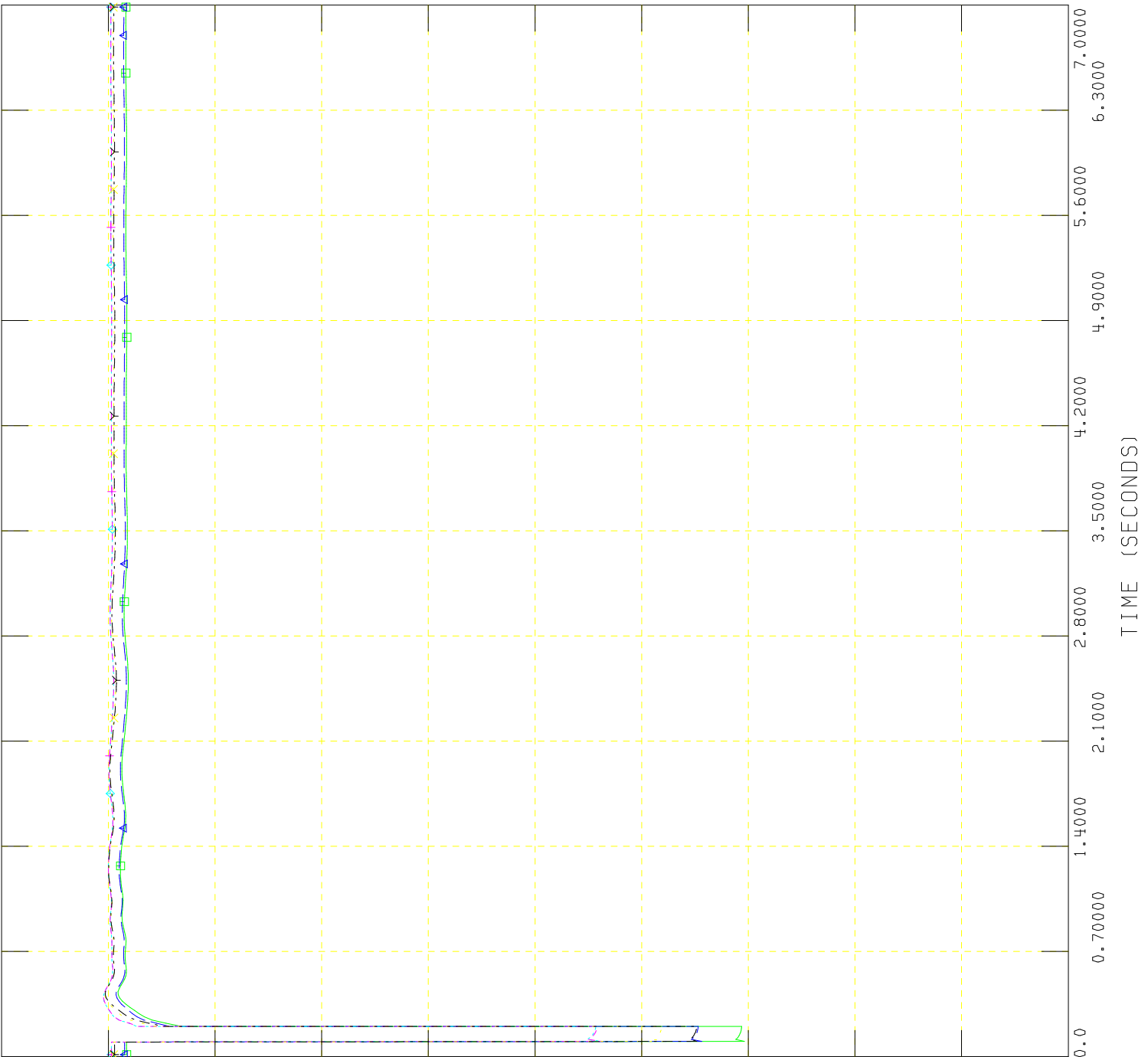
FRI, JUN 13 2008 14:51  
BUS VOLTAGES - 06



LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



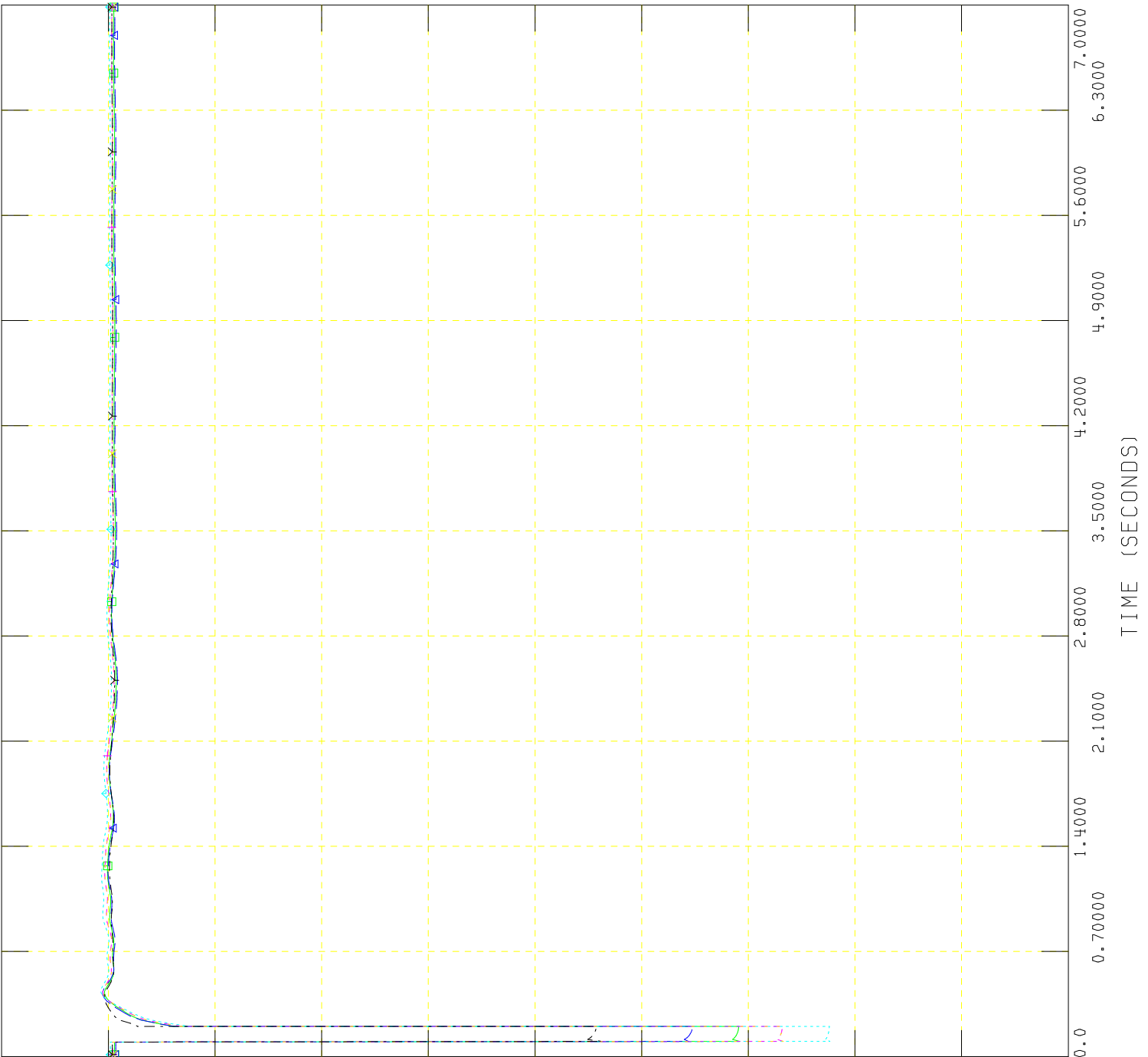
FRI, JUN 13 2008 14:51  
BUS VOLTAGES - 07



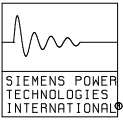
LC  
 LC-RIVTRIN  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



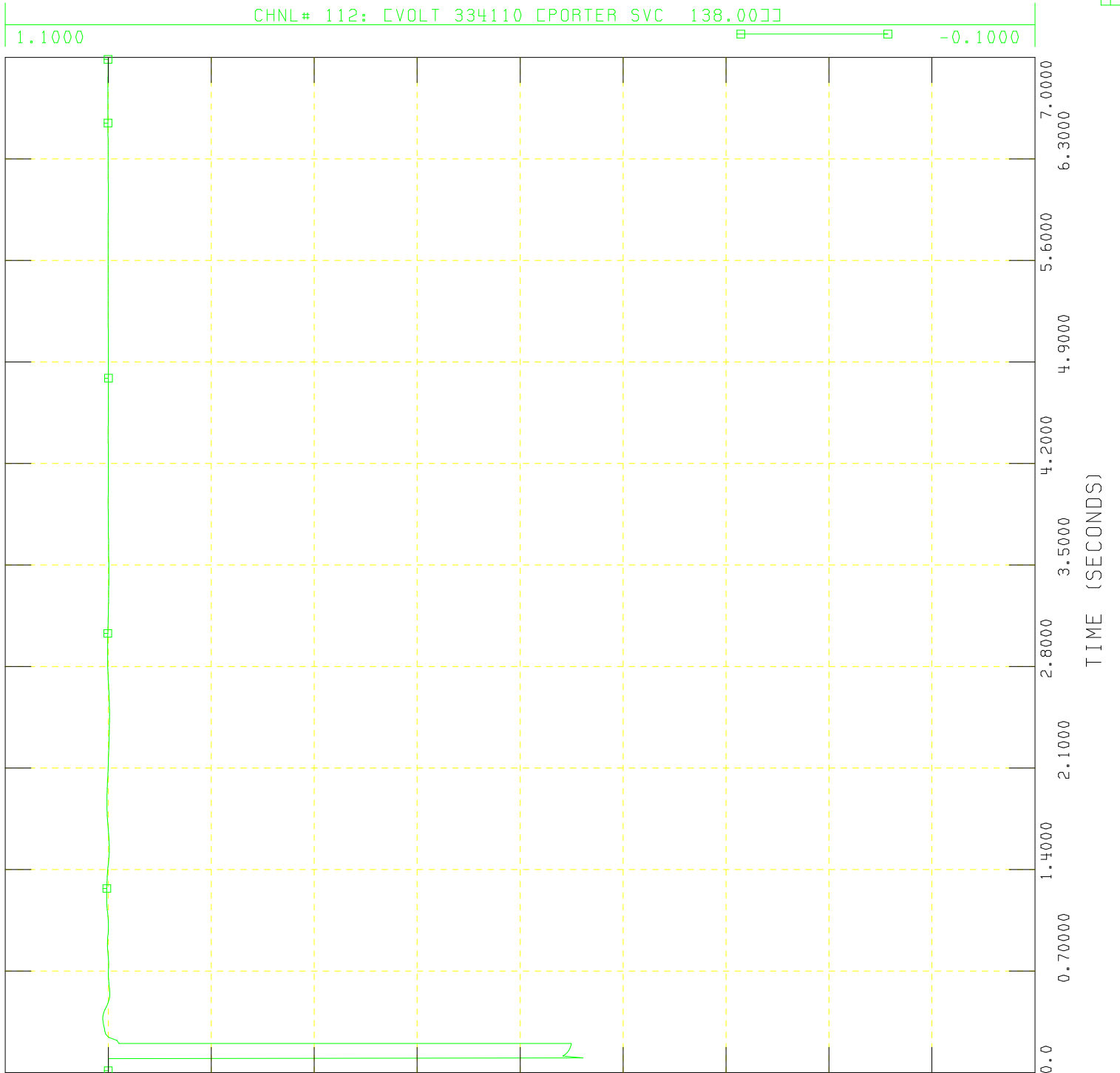
FRI, JUN 13 2008 14:51  
 BUS VOLTAGES - 08



LC  
LC-RIVTRIN  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-Rivtrin-5.out

FRI, JUN 13 2008 14:51  
BUS VOLTAGES - 09



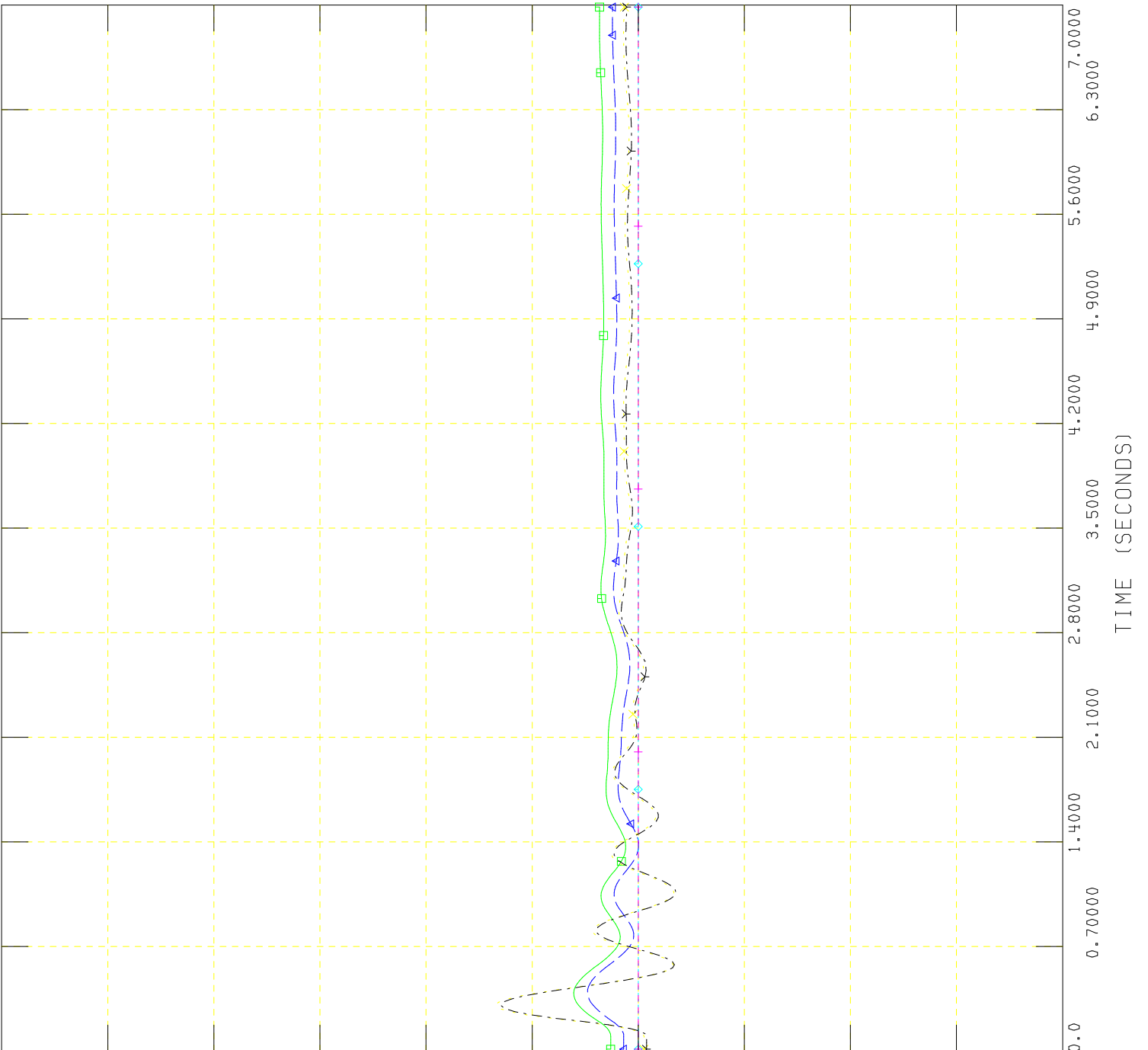
**FAULT 6**  
**Lewis Creek – Huntsville 138 kV**  
**Normal Clearing Times**



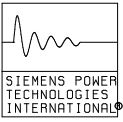
LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

Channel	Label	Value
6	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



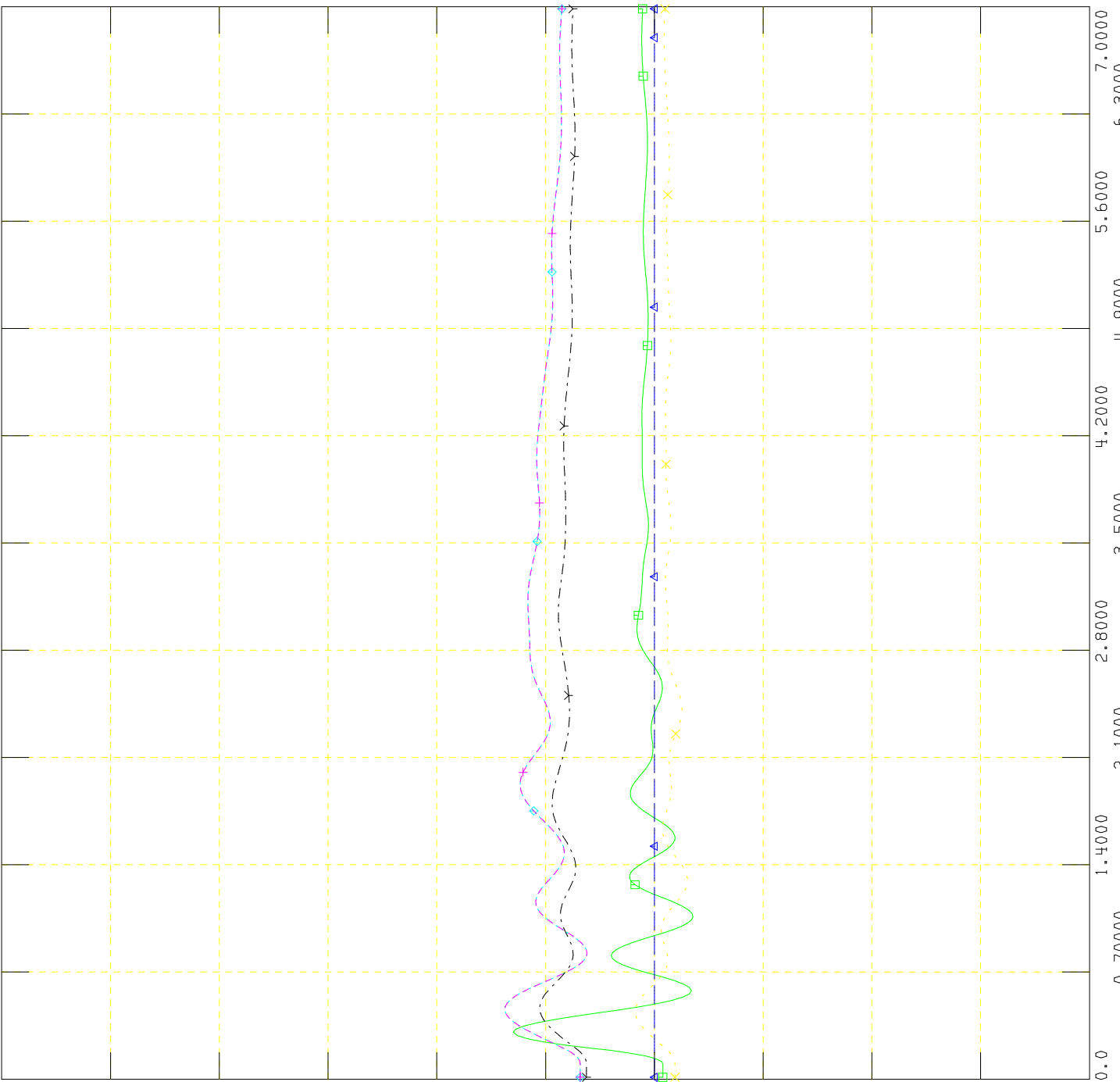
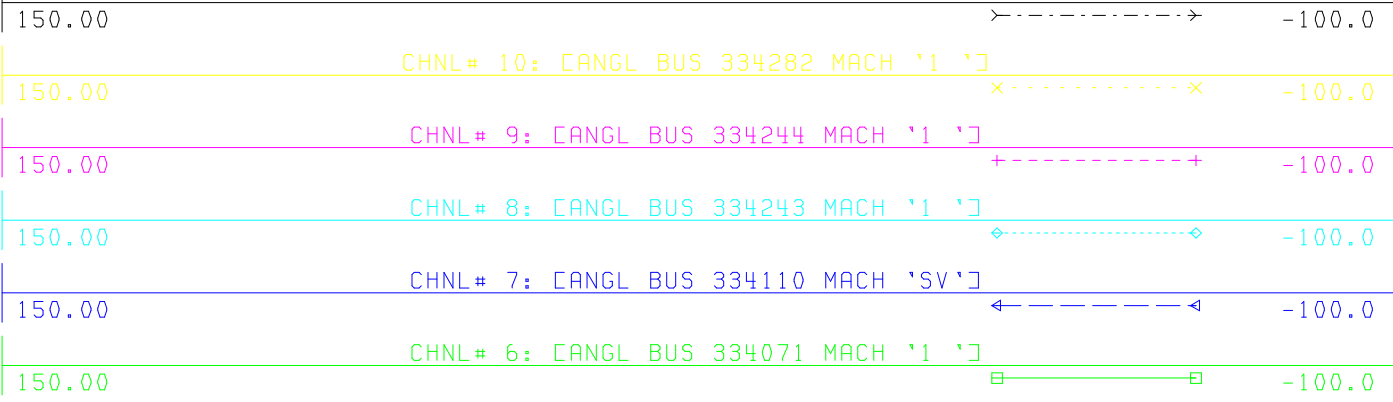
FRI, JUN 13 2008 14:54  
MACHINE ANGLES - 01



LC  
LC-HUNTSVILLE  
C

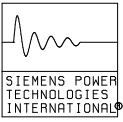
FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

CHNL# 11: [ANGL BUS 334298 MACH '1 ']



FRI, JUN 13 2008 14:54  
MACHINE ANGLES - 02

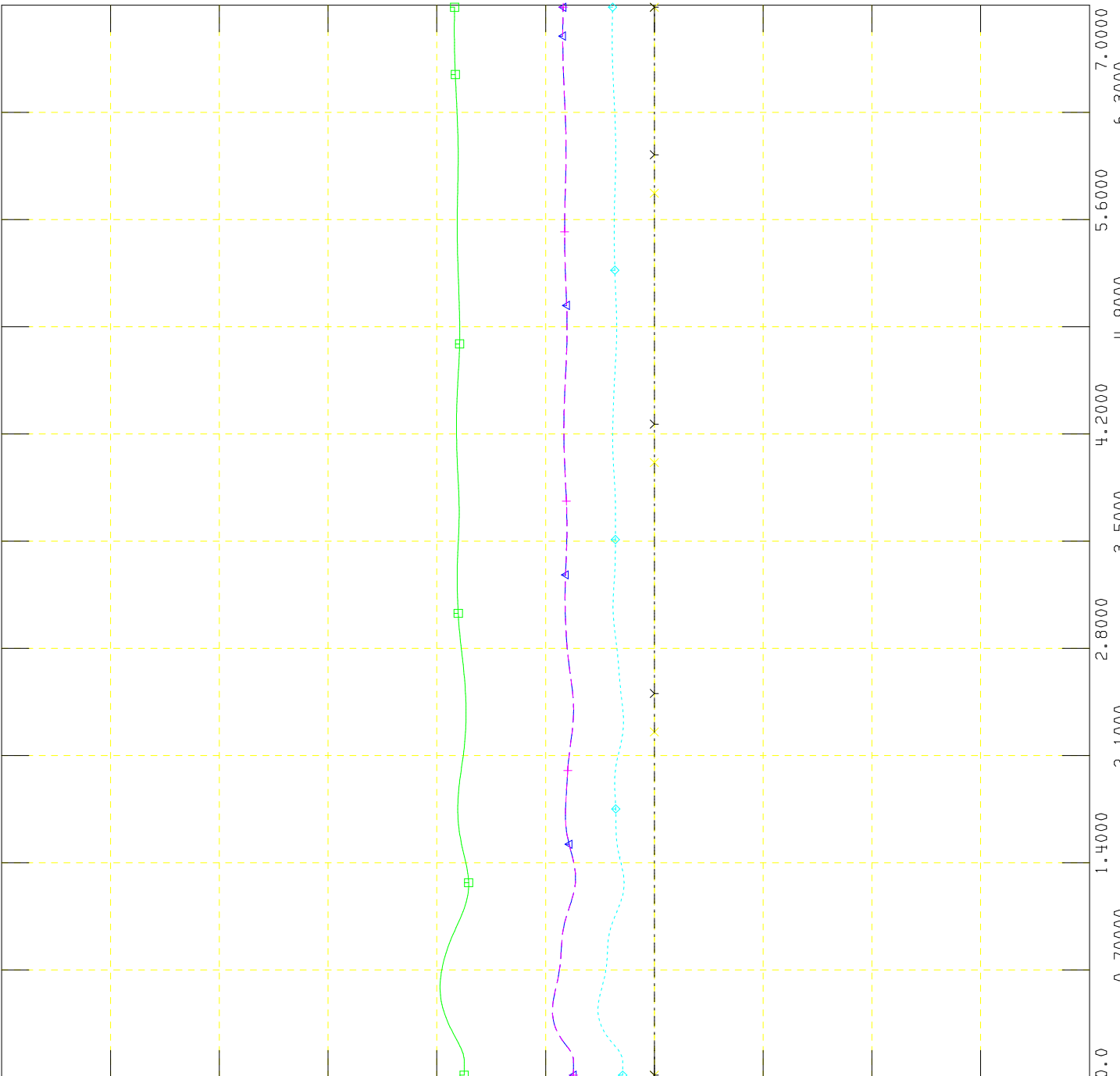




LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

150.00	CHNL# 18: [ANGL BUS 334380 MACH '1 ']	-100.0
150.00	CHNL# 17: [ANGL BUS 334377 MACH '1 ']	-100.0
150.00	CHNL# 16: [ANGL BUS 334376 MACH '1 ']	-100.0
150.00	CHNL# 15: [ANGL BUS 334375 MACH '1 ']	-100.0
150.00	CHNL# 14: [ANGL BUS 334374 MACH '1 ']	-100.0
150.00	CHNL# 13: [ANGL BUS 334335 MACH '1 ']	-100.0



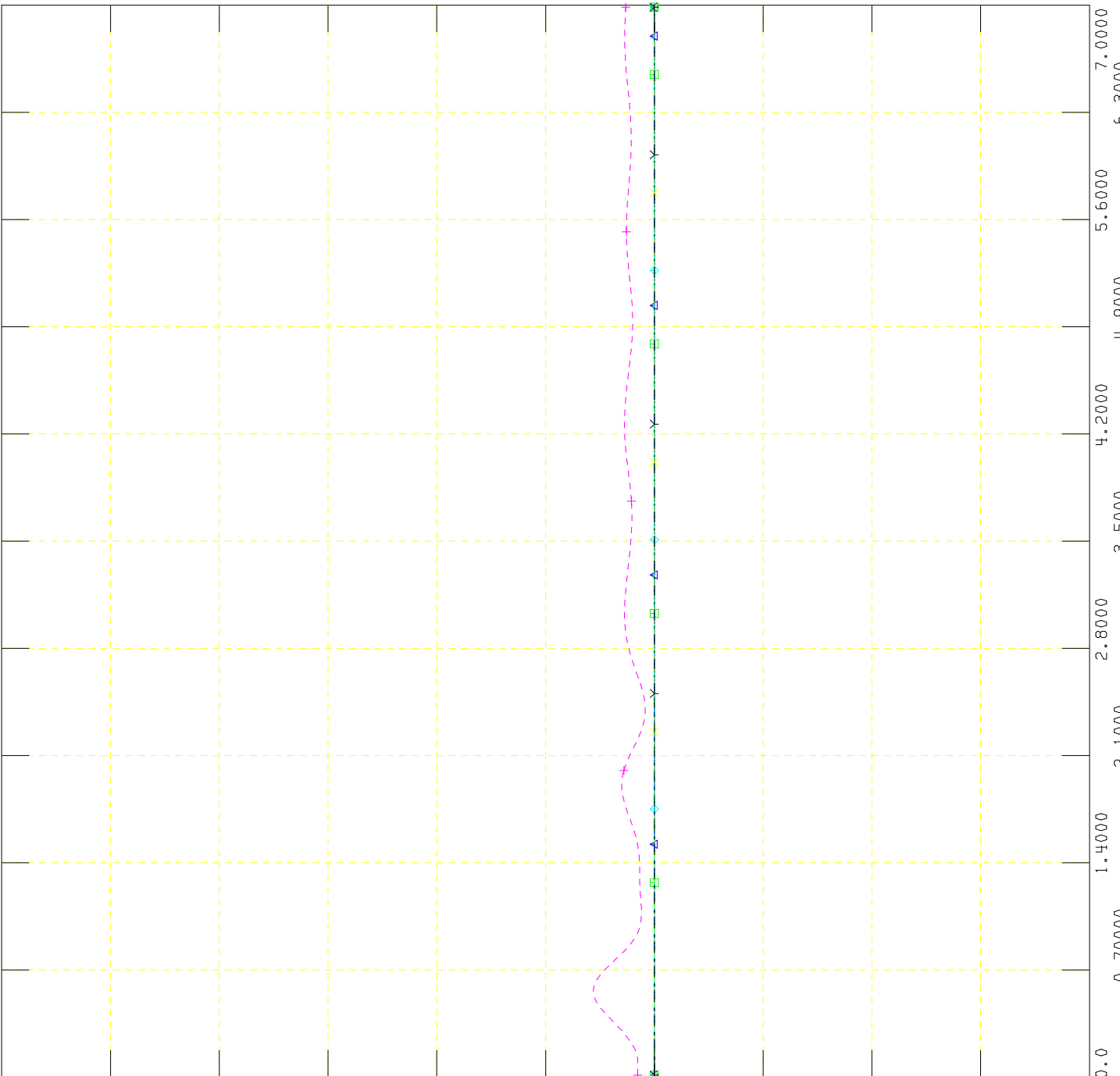
FRI, JUN 13 2008 14:54  
MACHINE ANGLES - 03



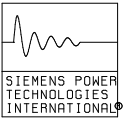
LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



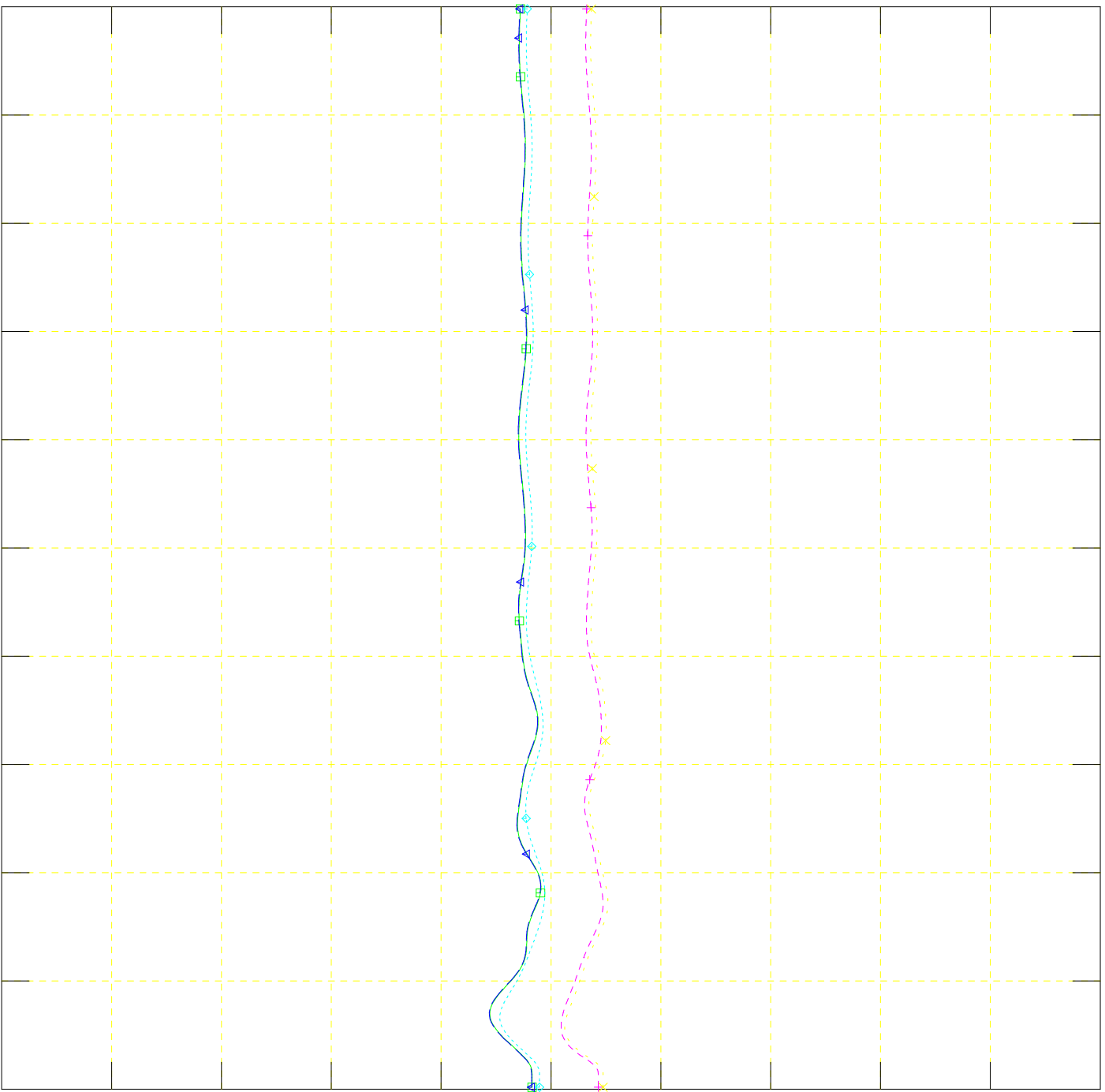
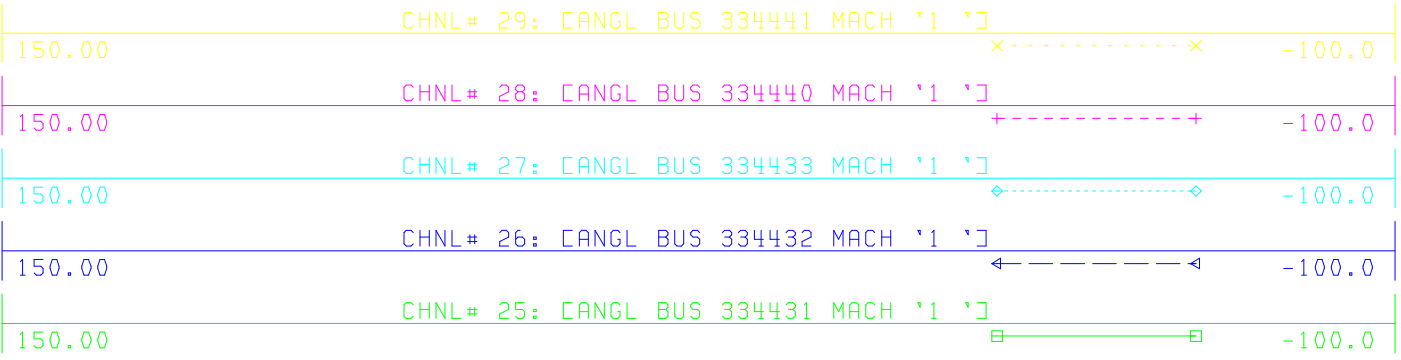
FRI, JUN 13 2008 14:54  
MACHINE ANGLES - 04



LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

FRI, JUN 13 2008 14:54  
MACHINE ANGLES - 05





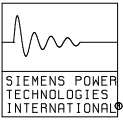
LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



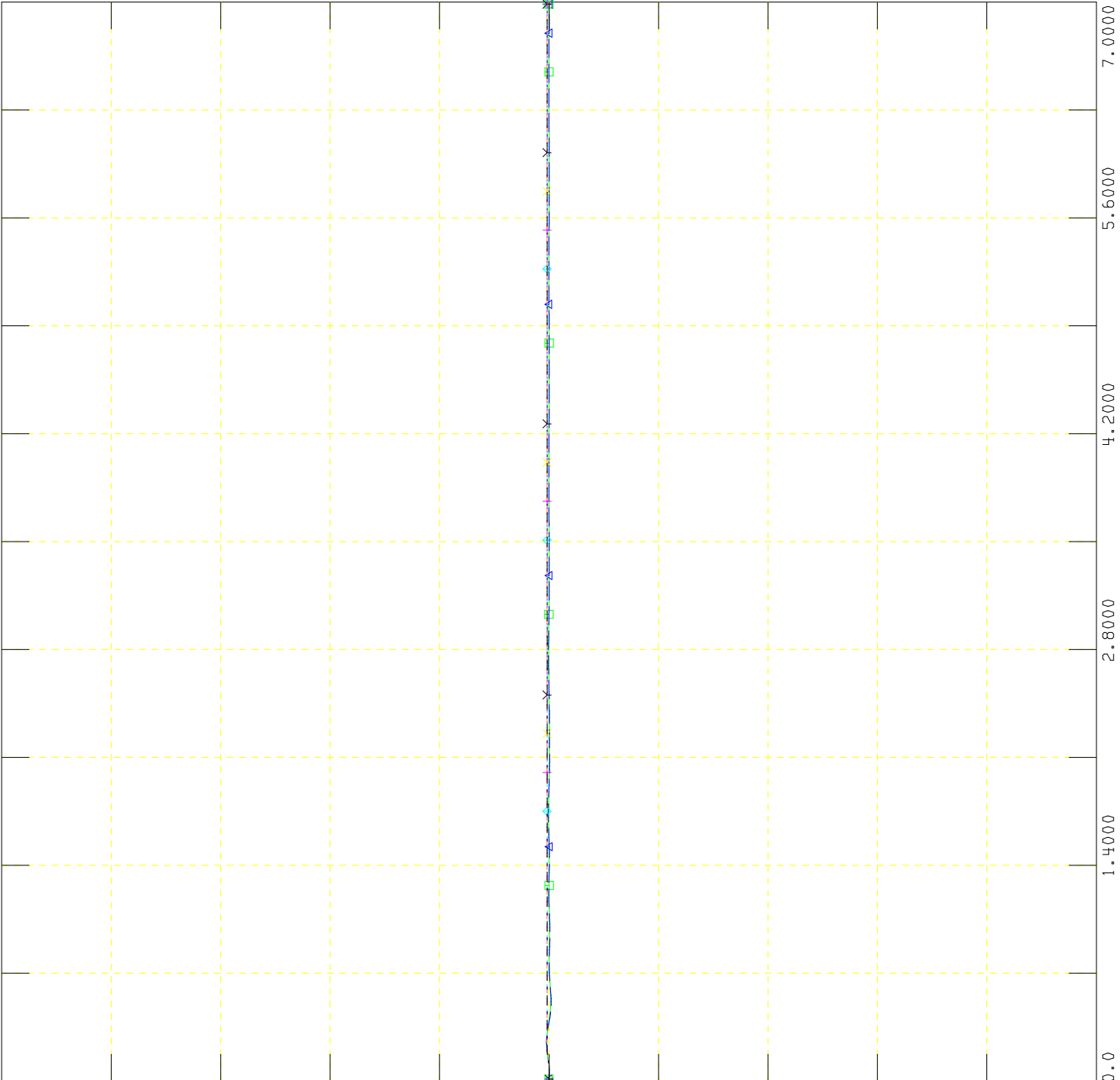
FRI, JUN 13 2008 14:54  
ANG & VOLT - PID-211 GENS



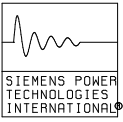
LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

0.50000	CHNL# 41: [FREQ 334065 [4LACON 138.00]]	-0.50000
0.50000	CHNL# 40: [FREQ 334064 [8LNG 413 138.00]]	-0.50000
0.50000	CHNL# 39: [FREQ 334063 [4EVGRN* 138.00]]	-0.50000
0.50000	CHNL# 38: [FREQ 334062 [4TEMCO 138.00]]	-0.50000
0.50000	CHNL# 37: [FREQ 334061 [4GOREE 138.00]]	-0.50000
0.50000	CHNL# 36: [FREQ 334060 [4MT.ZION 138.00]]	-0.50000



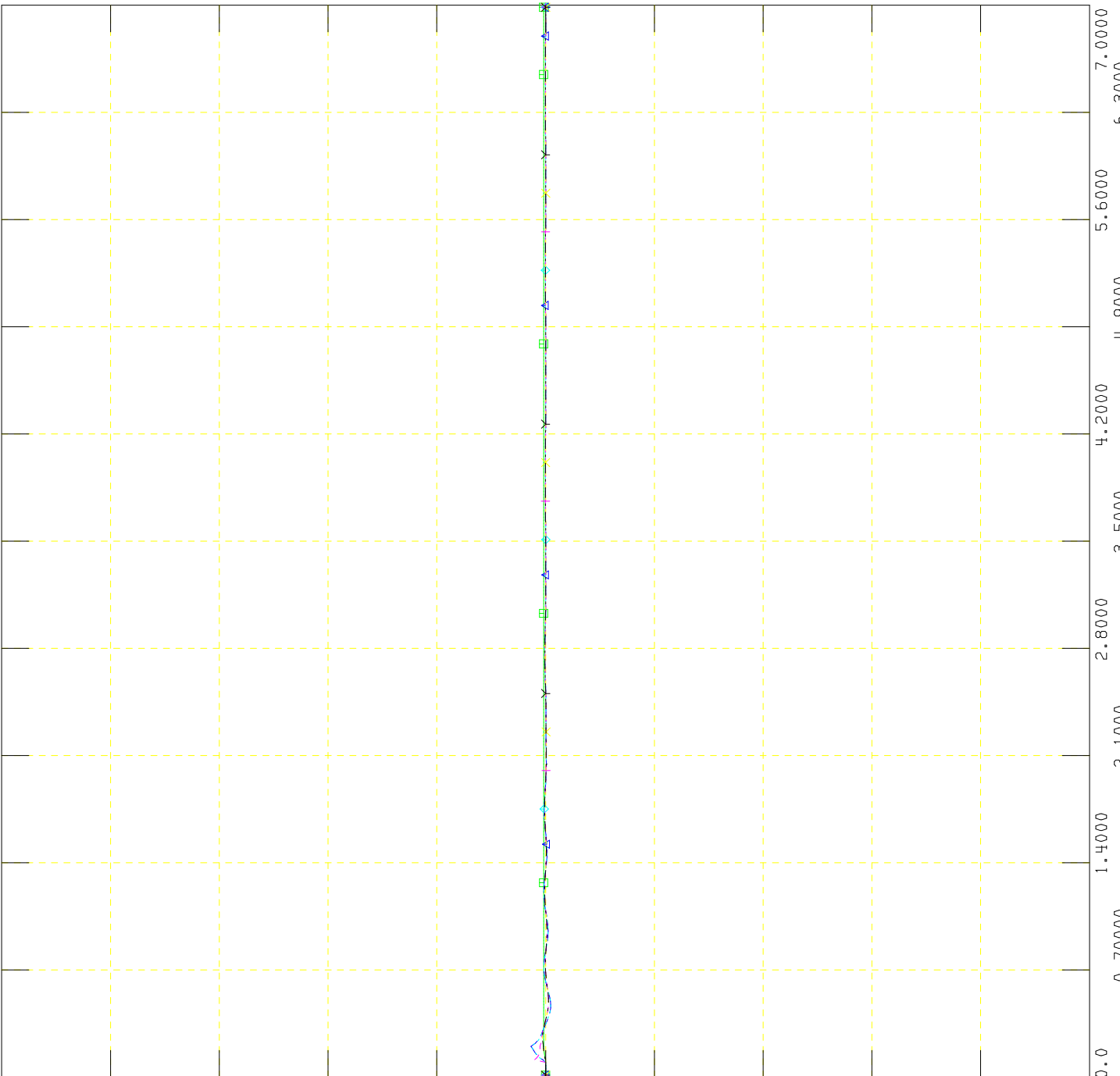
FRI, JUN 13 2008 14:54  
MACHINE FREQUENCIES - 01



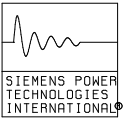
LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



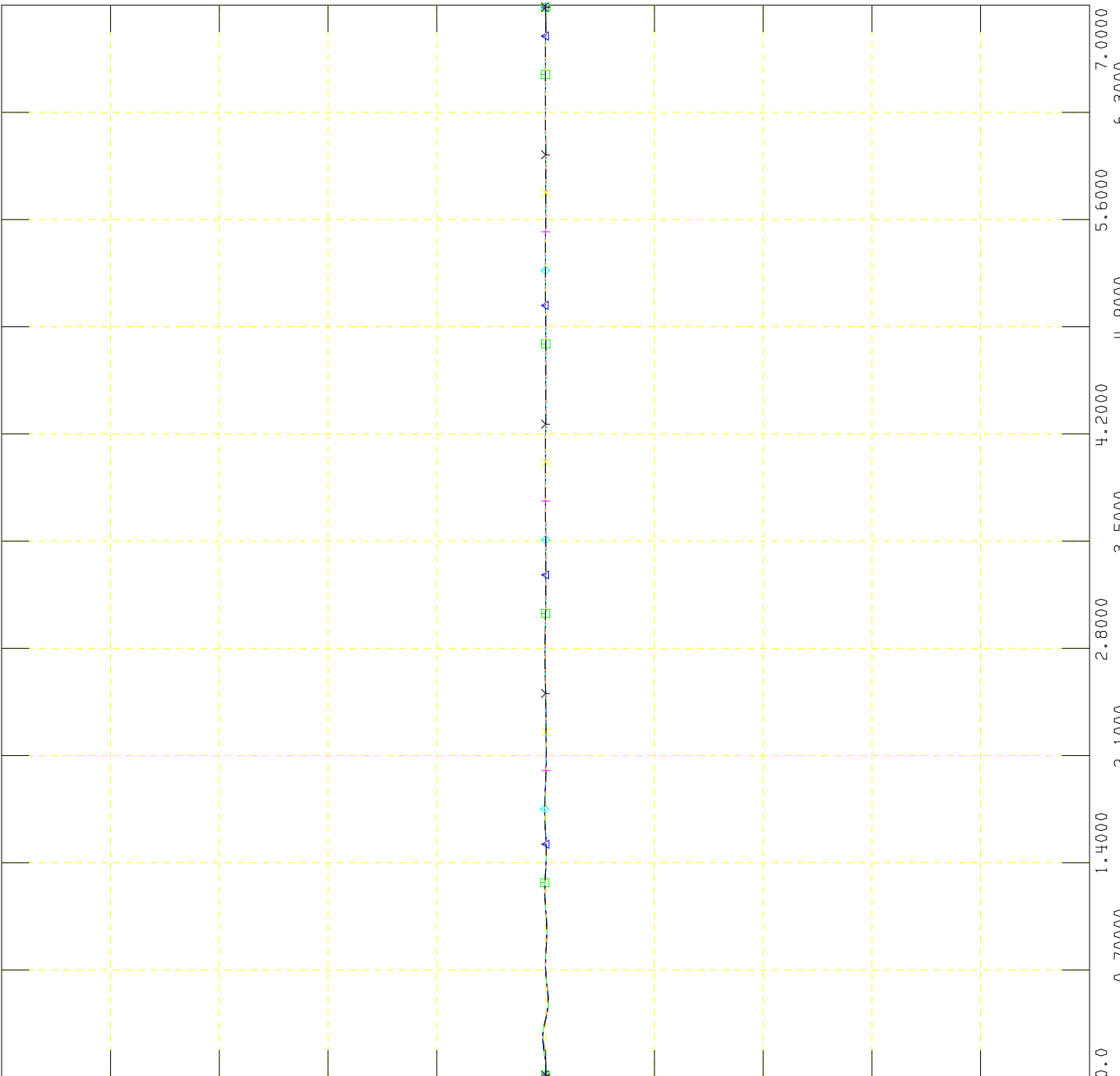
FRI, JUN 13 2008 14:54  
MACHINE FREQUENCIES - 02



LC  
LC-HUNTSVILLE  
C

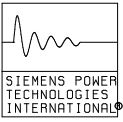
FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



FRI, JUN 13 2008 14:54  
MACHINE FREQUENCIES - 03

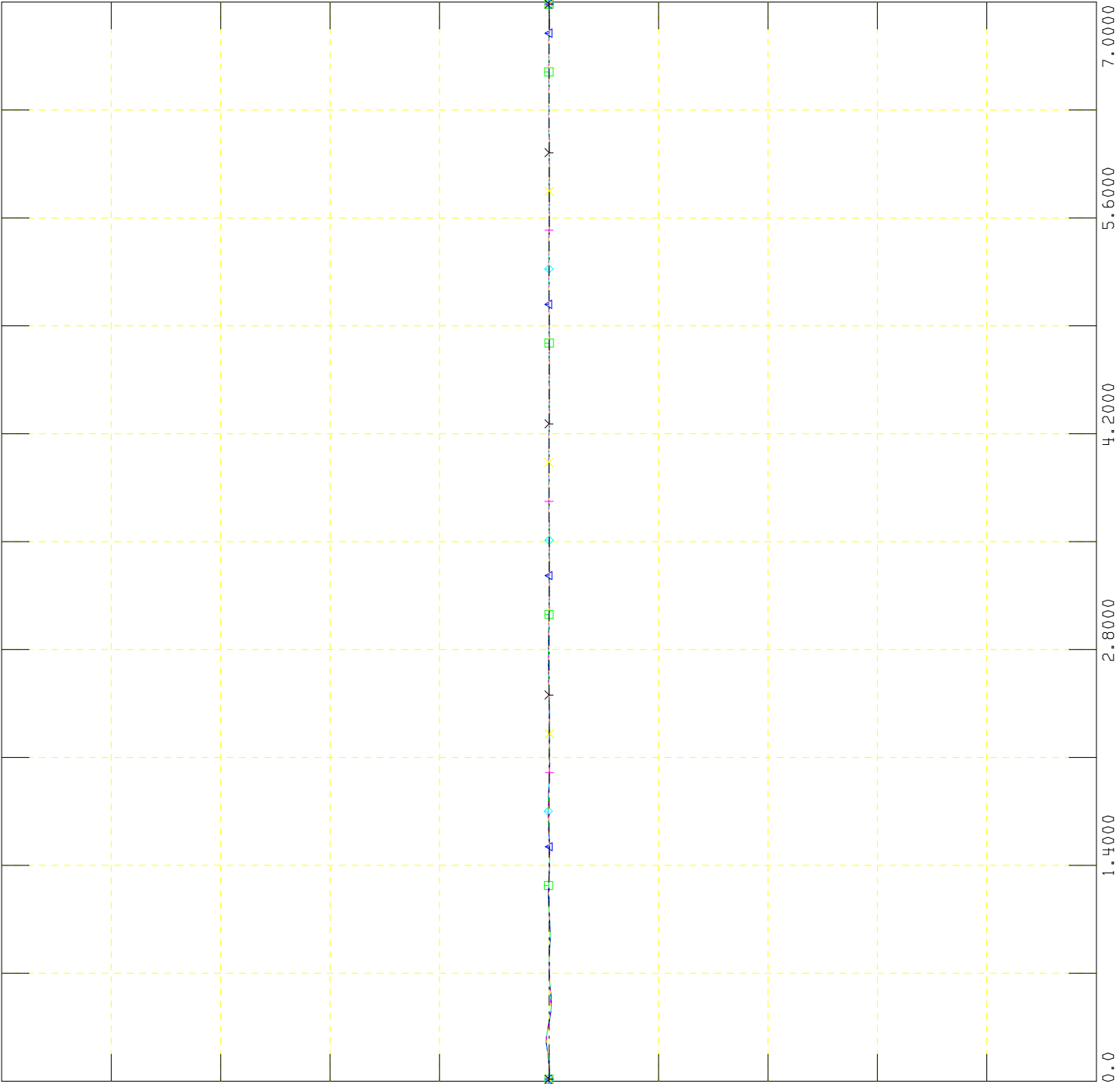
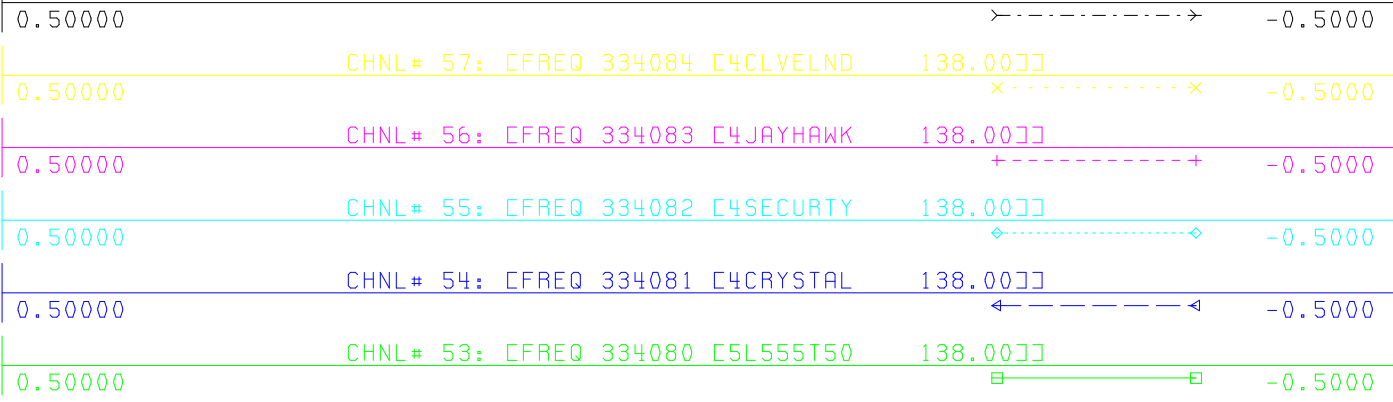
TIME (SECONDS)



LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

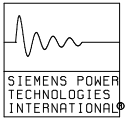
CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 14:54  
 MACHINE FREQUENCIES - 04

TIME (SECONDS)



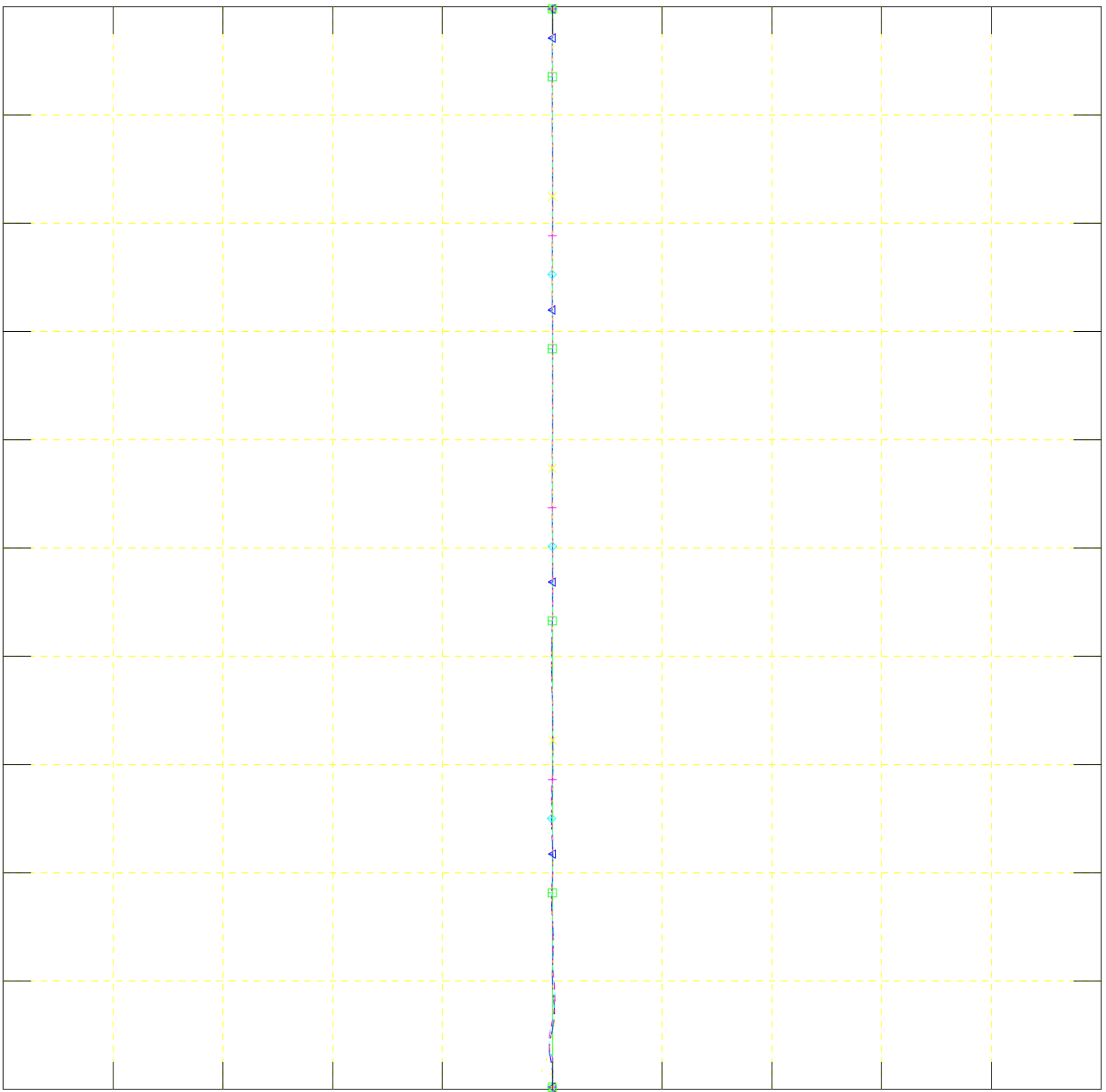


LC  
LC-HUNTSVILLE  
C

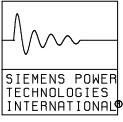
FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

FRI, JUN 13 2008 14:54  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value	Marker
CHNL# 63	99183 [G3PID211	18.000]]	x
CHNL# 62	99182 [G2PID211	18.000]]	+
CHNL# 61	99181 [G1PID211	18.000]]	◇
CHNL# 60	334090 [4ALDEN	138.00]]	△
CHNL# 59	334086 [6CONROE	230.00]]	□



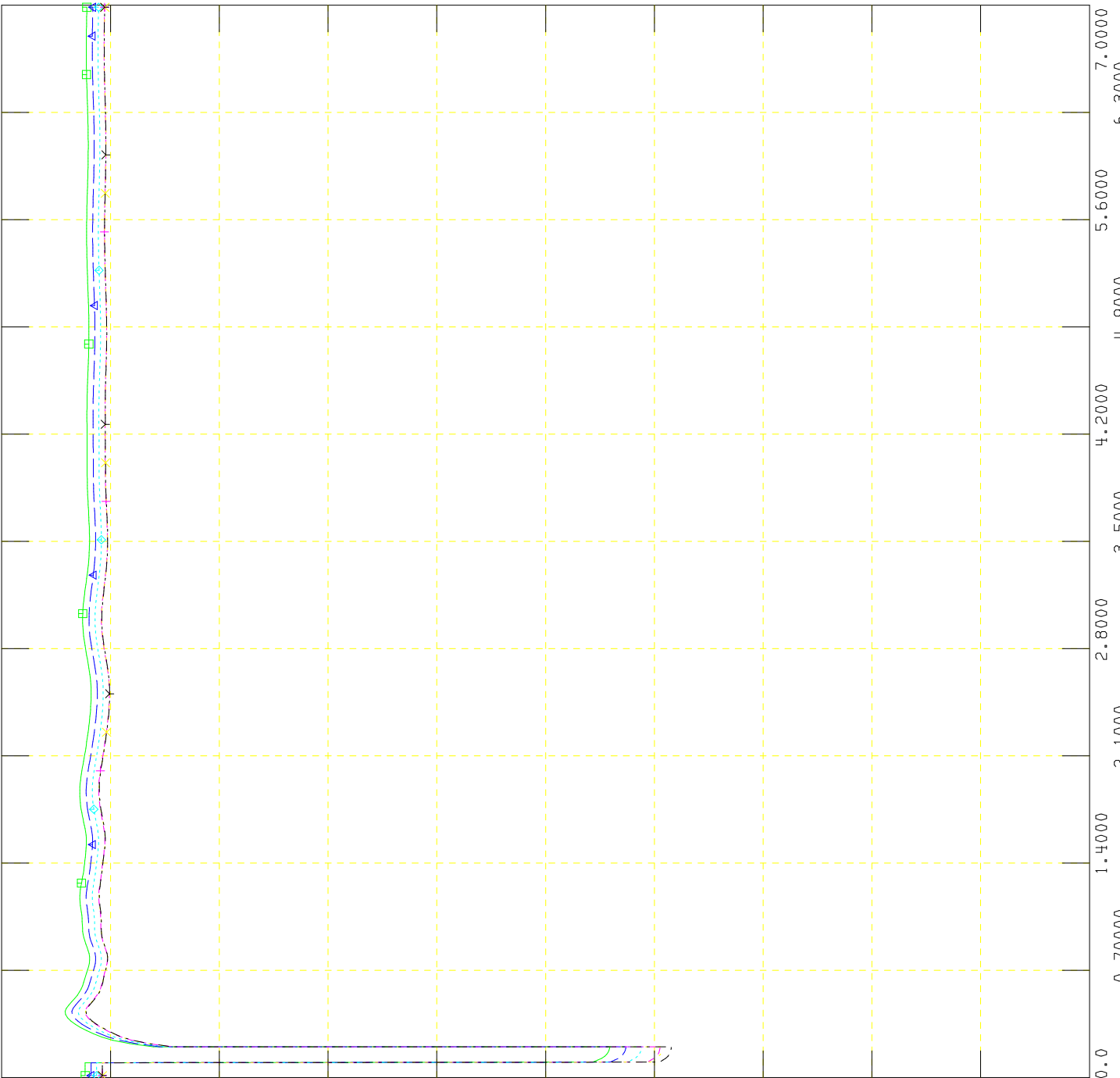
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-0.5000



LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



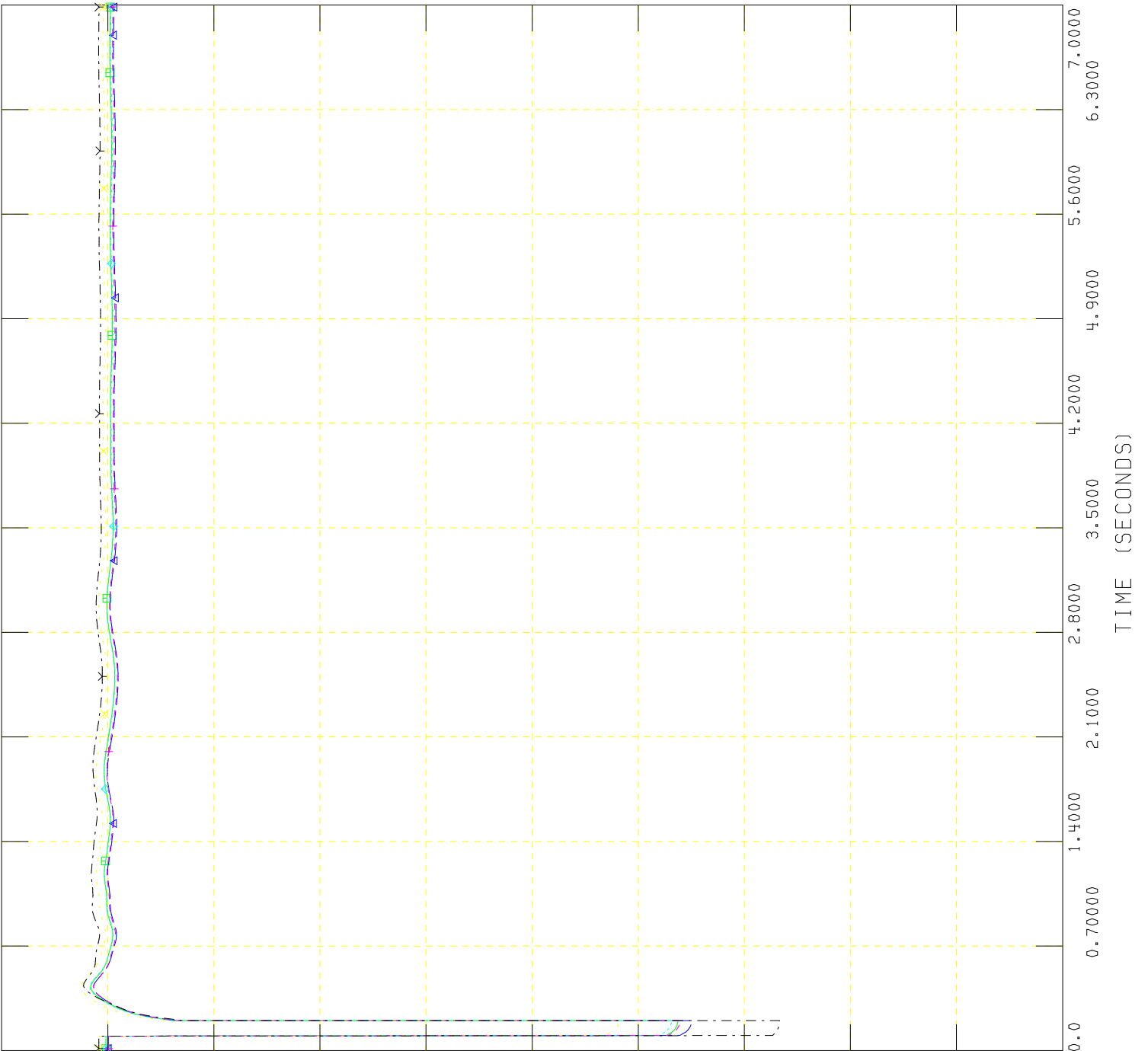
FRI, JUN 13 2008 14:54  
BUS VOLTAGES - 01



LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



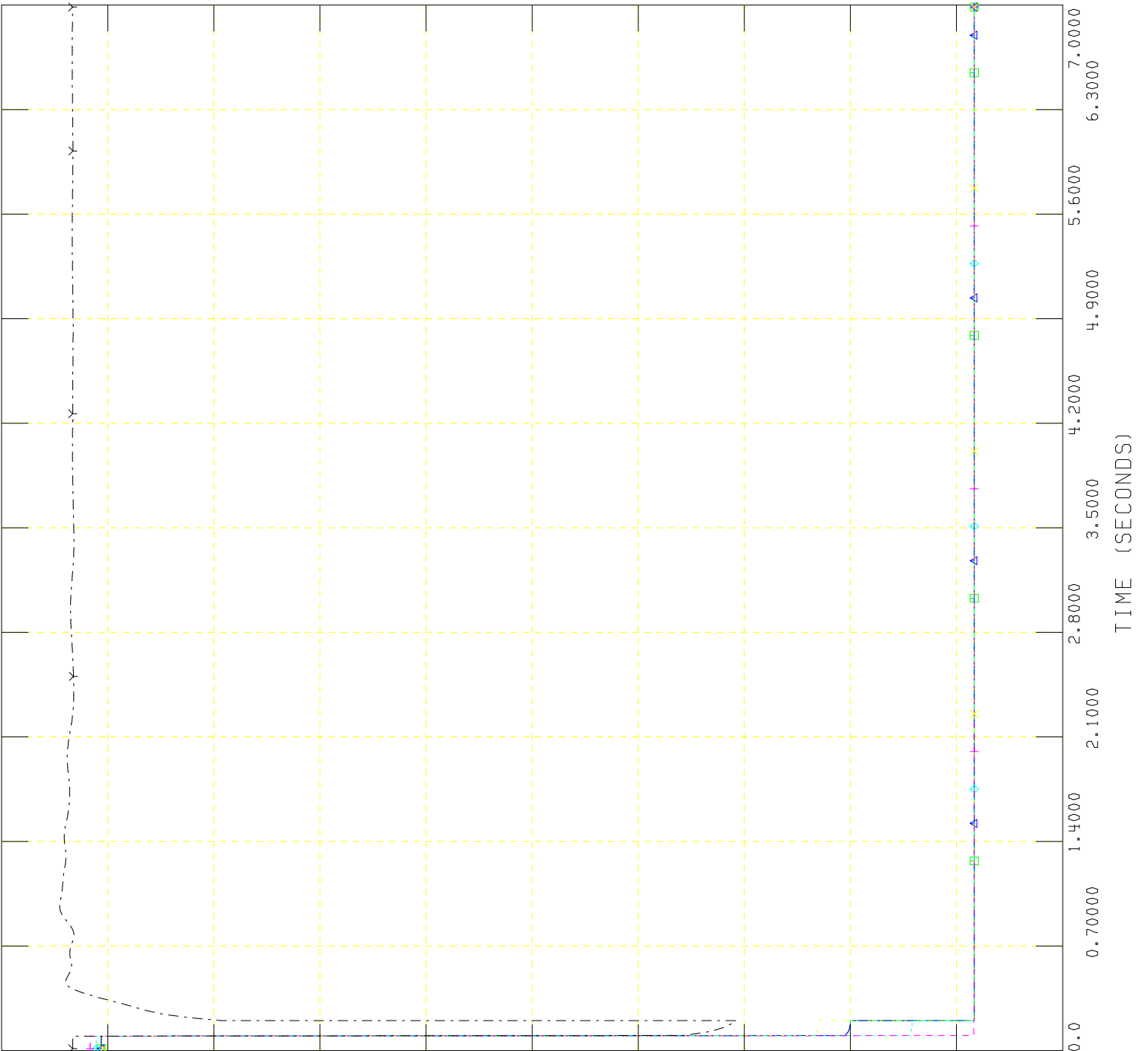
FRI, JUN 13 2008 14:54  
BUS VOLTAGES - 02



LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

Channel	Label	Value
CHNL# 81	[VOLT 334070 [G1LEWIS 22.000]]	22.000
CHNL# 80	[VOLT 334066 [4GEORGIA 138.00]]	138.00
CHNL# 79	[VOLT 334065 [4LACON 138.00]]	138.00
CHNL# 78	[VOLT 334064 [8LNG 413 138.00]]	138.00
CHNL# 77	[VOLT 334063 [4EVGRN* 138.00]]	138.00
CHNL# 76	[VOLT 334062 [4TEMCO 138.00]]	138.00



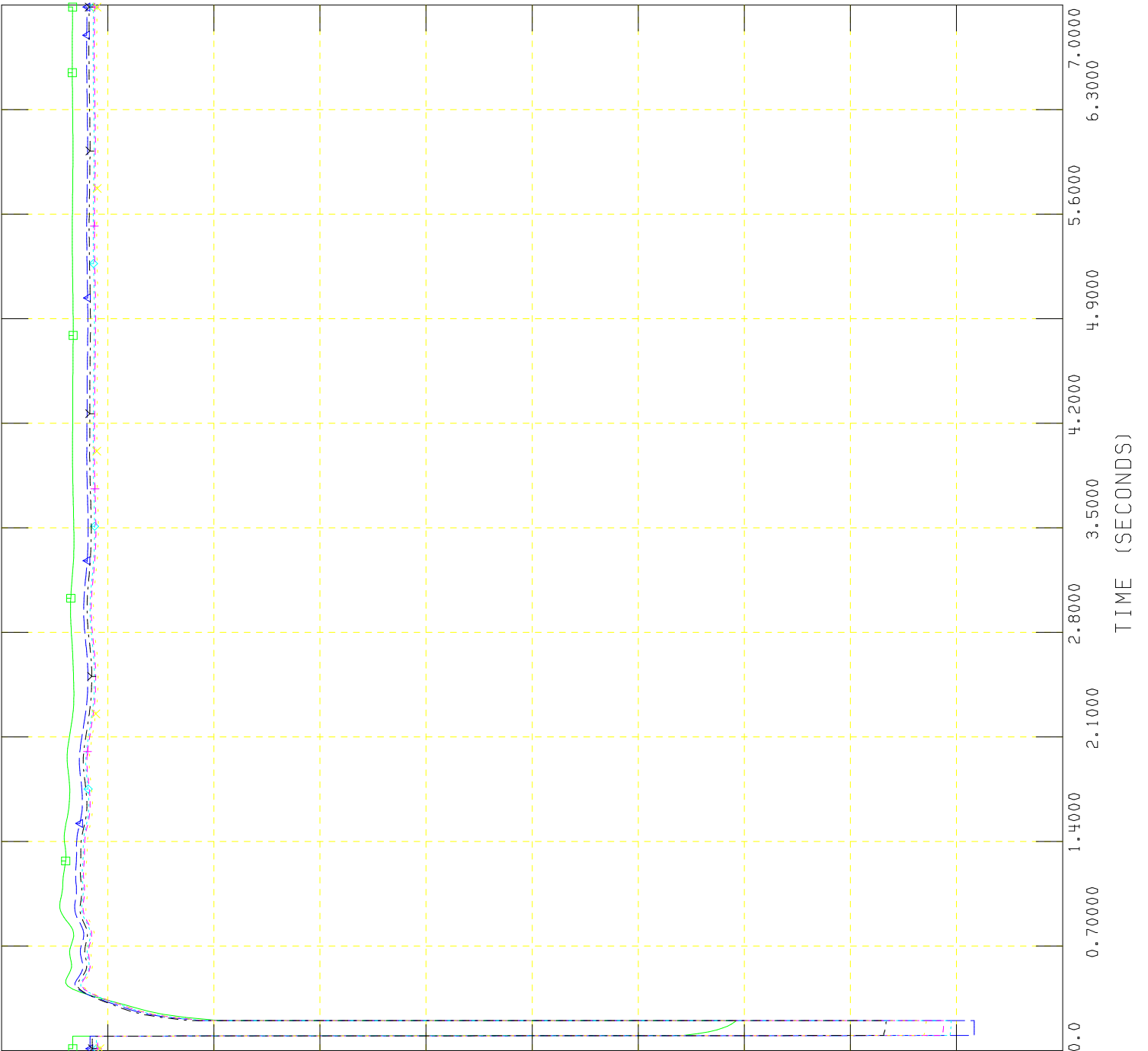
FRI, JUN 13 2008 14:54  
BUS VOLTAGES - 03



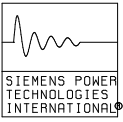
LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



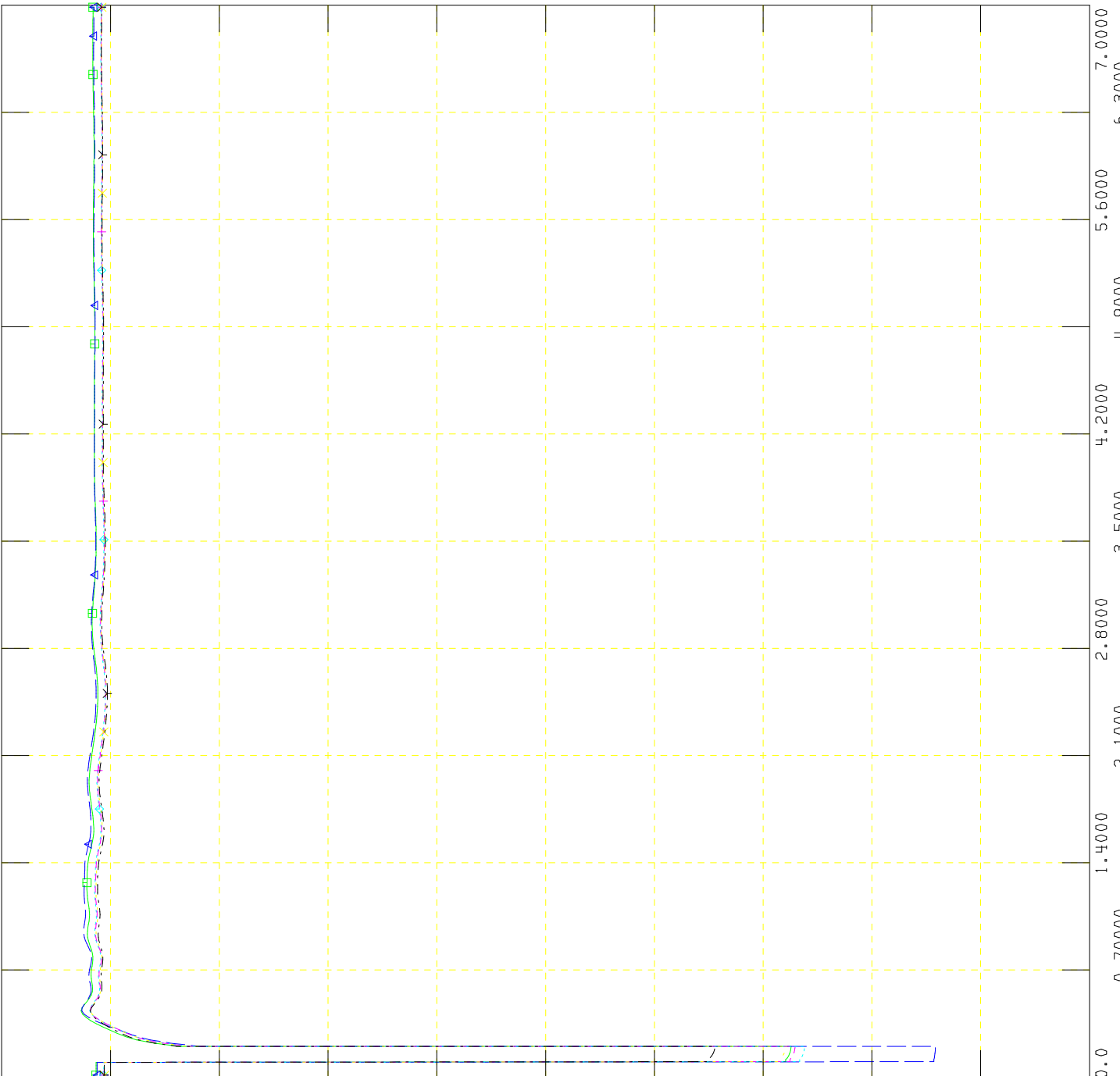
FRI, JUN 13 2008 14:54  
BUS VOLTAGES - 04



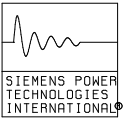
LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



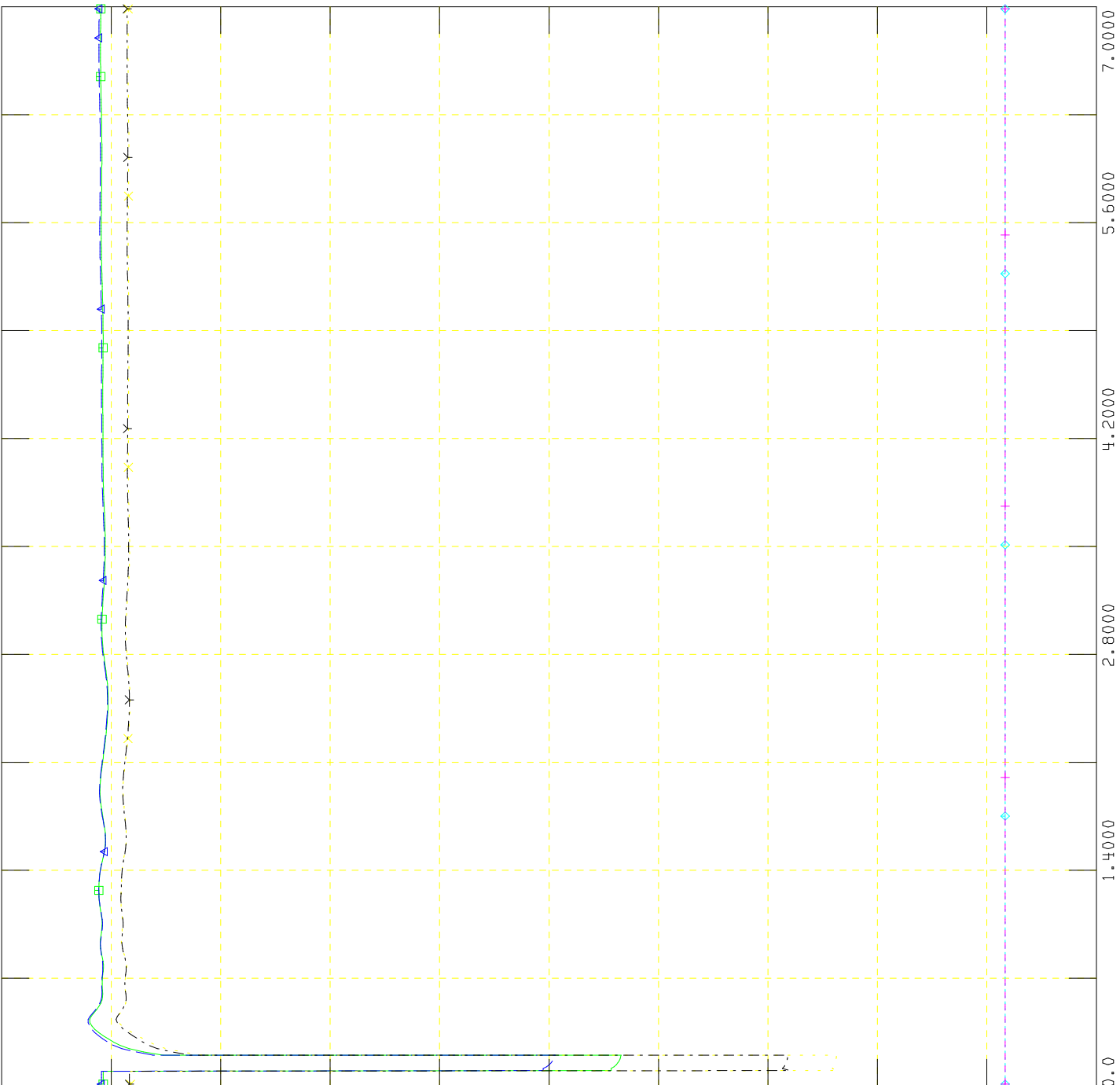
FRI, JUN 13 2008 14:54  
BUS VOLTAGES - 05



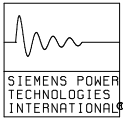
LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



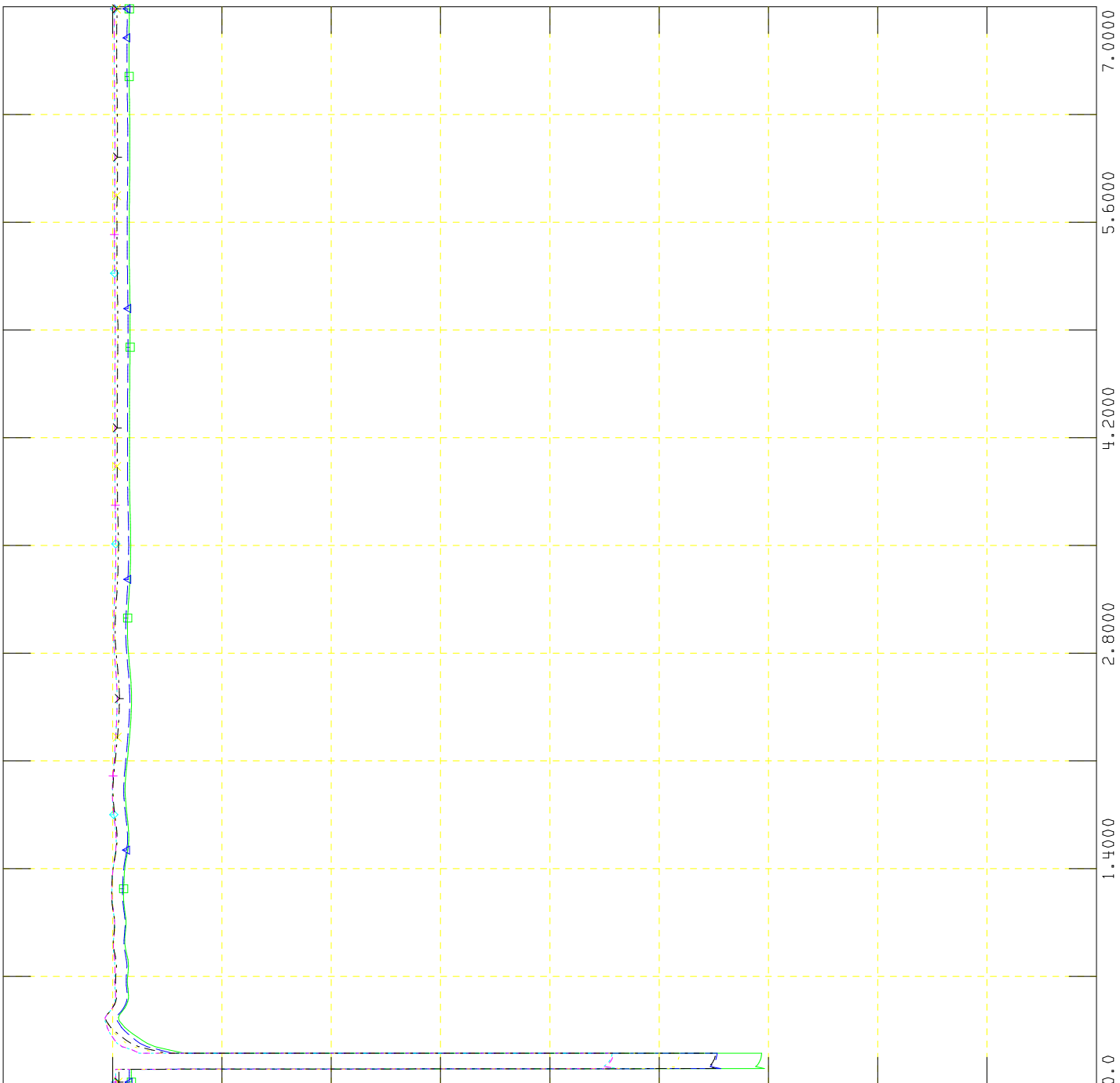
FRI, JUN 13 2008 14:54  
BUS VOLTAGES - 06



LC  
LC-HUNTSVILLE  
C

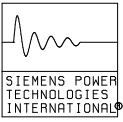
FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



FRI, JUN 13 2008 14:54  
BUS VOLTAGES - 07

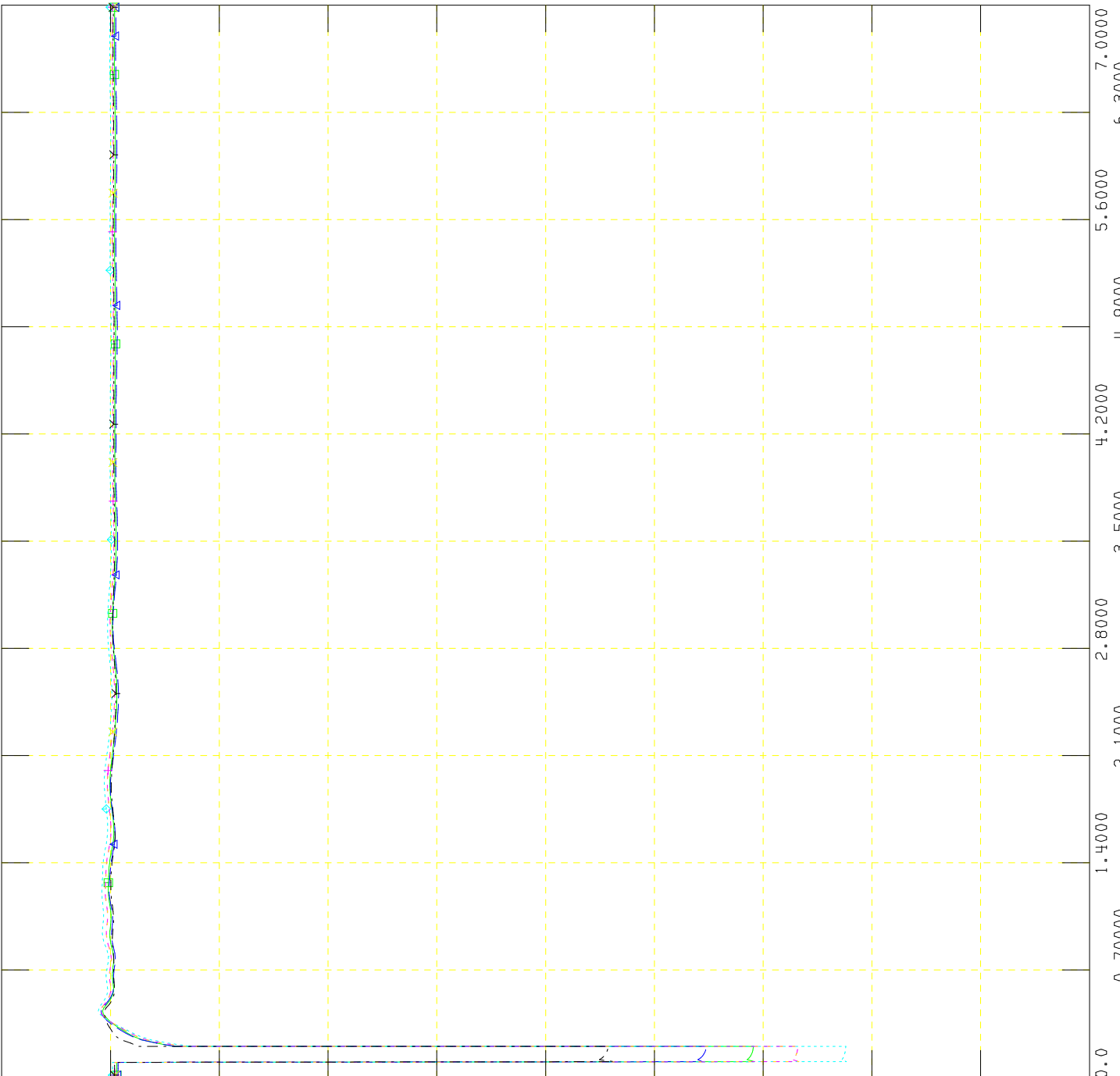




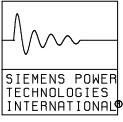
LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



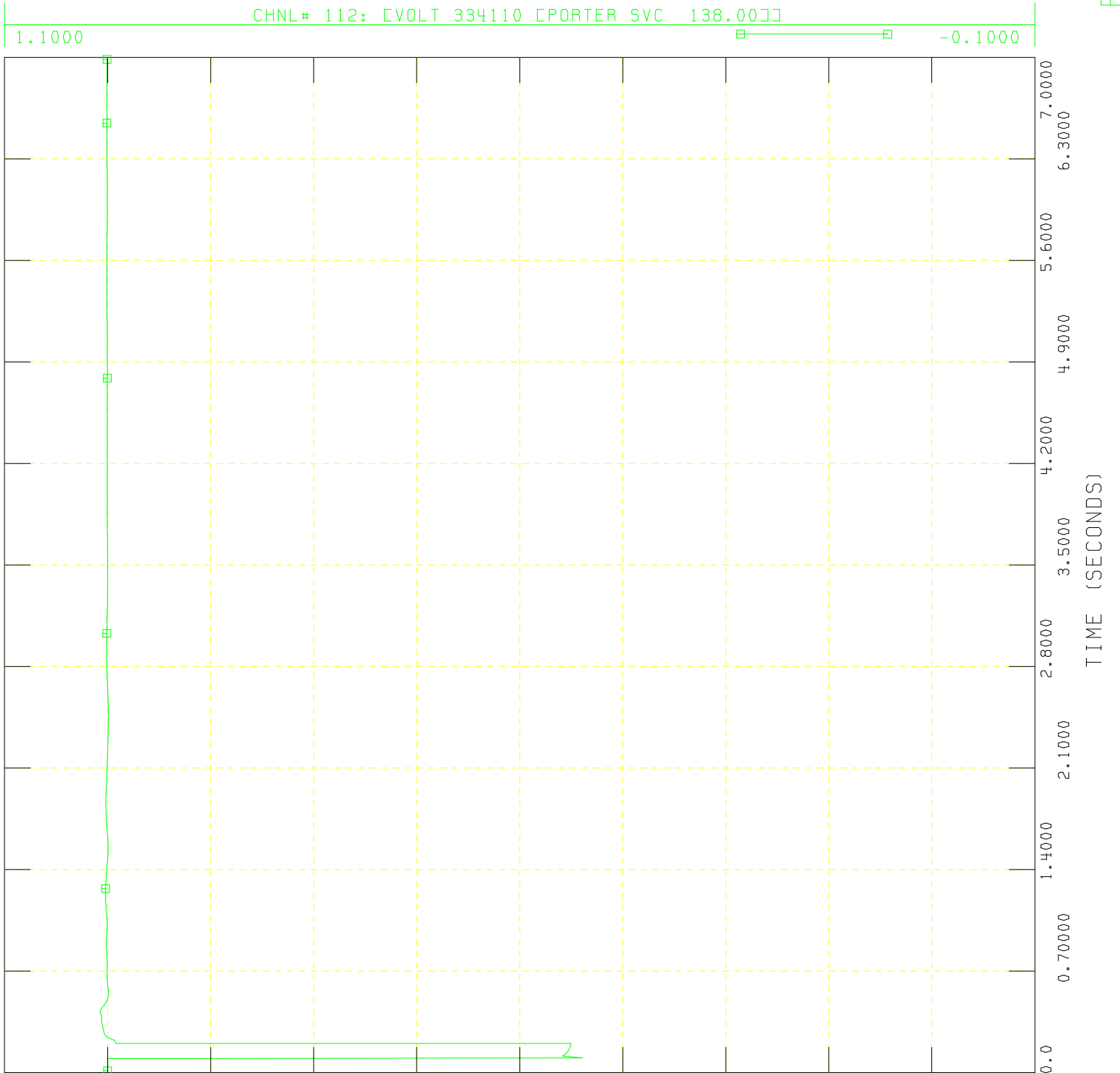
FRI, JUN 13 2008 14:54  
BUS VOLTAGES - 08



LC  
LC-HUNTSVILLE  
C

FILE: C:\Southwest Power Pool\LC-Huntsville-6.out

FRI, JUN 13 2008 14:54  
BUS VOLTAGES - 09



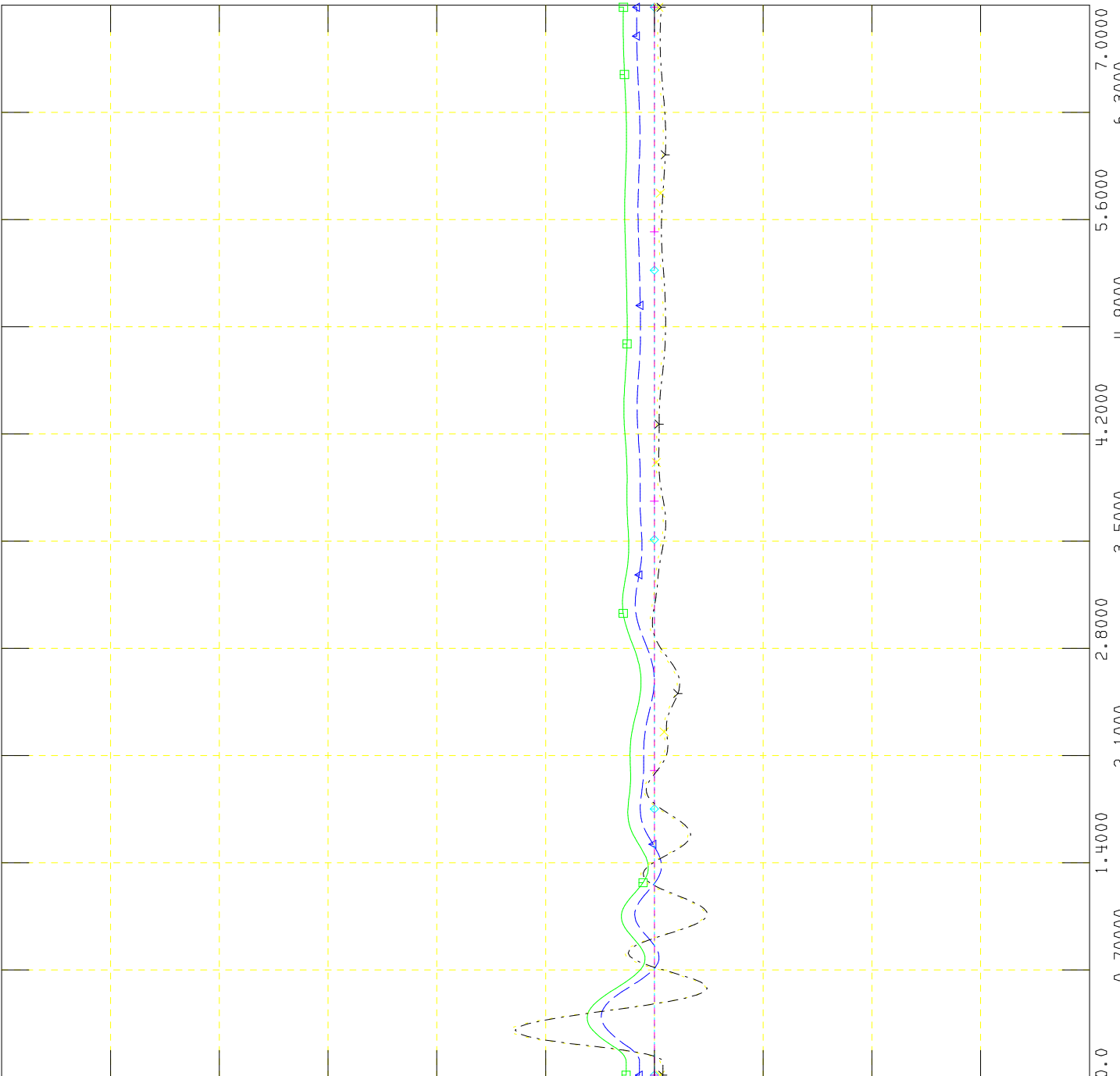
**FAULT 7**  
**Lewis Creek – Peach Creek 138 kV**  
**Normal Clearing Times**



LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

Channel	Label	Value
6	CHANL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHANL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHANL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHANL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHANL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHANL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



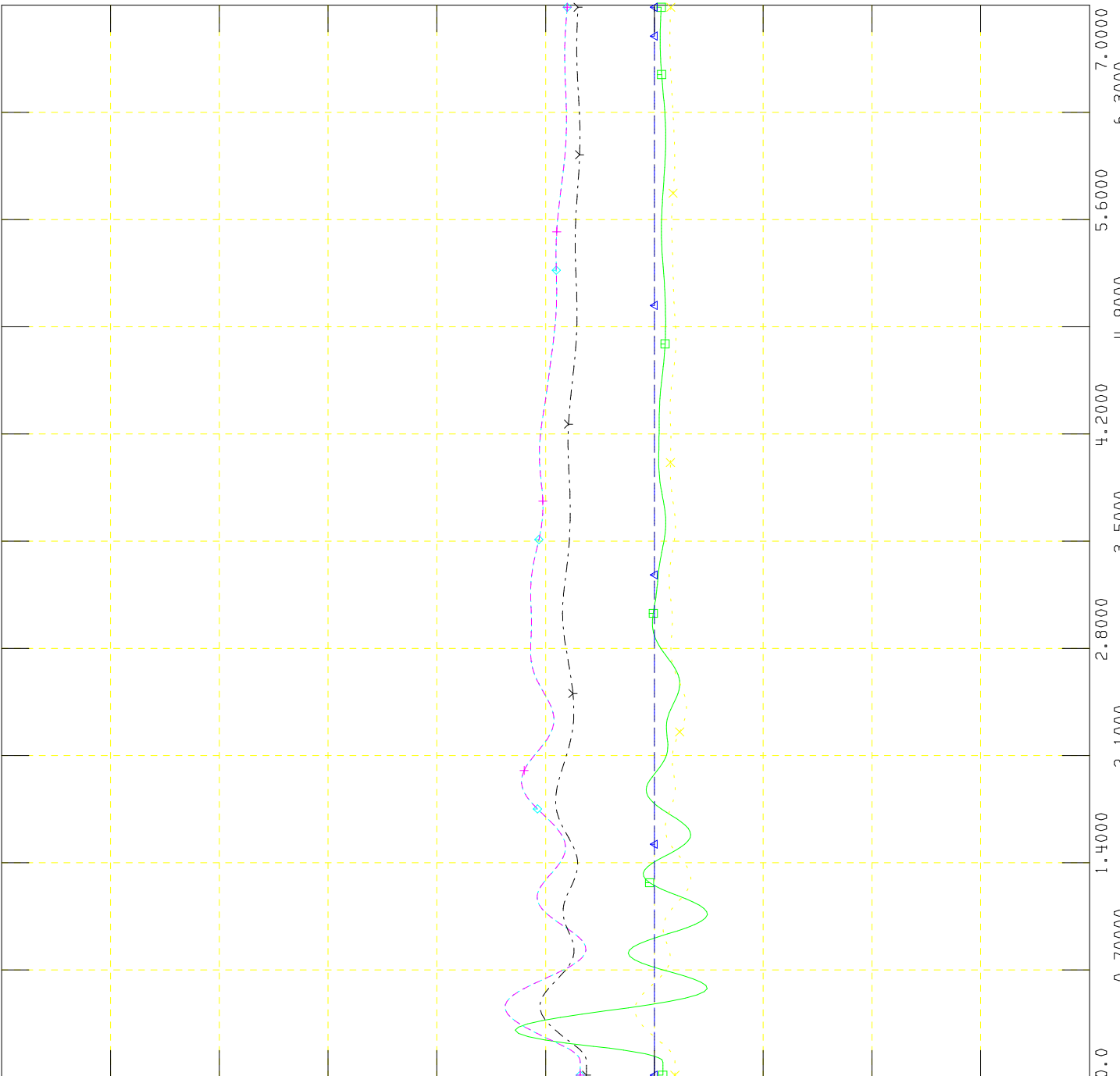
FRI, JUN 13 2008 14:56  
MACHINE ANGLES - 01



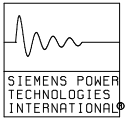
LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

Channel	Label	Value
11	CHANL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
10	CHANL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
9	CHANL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
8	CHANL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
7	CHANL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
6	CHANL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

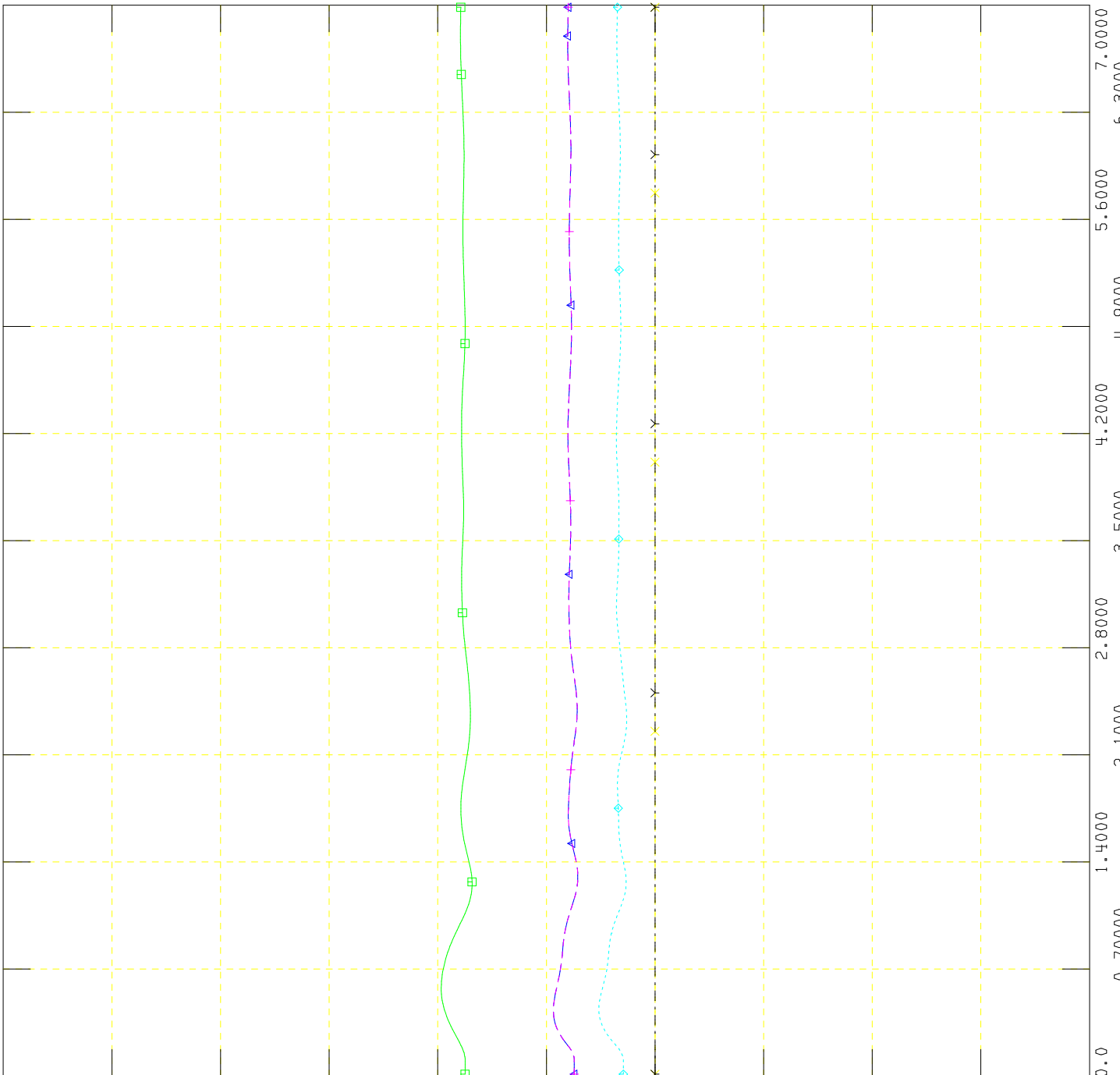
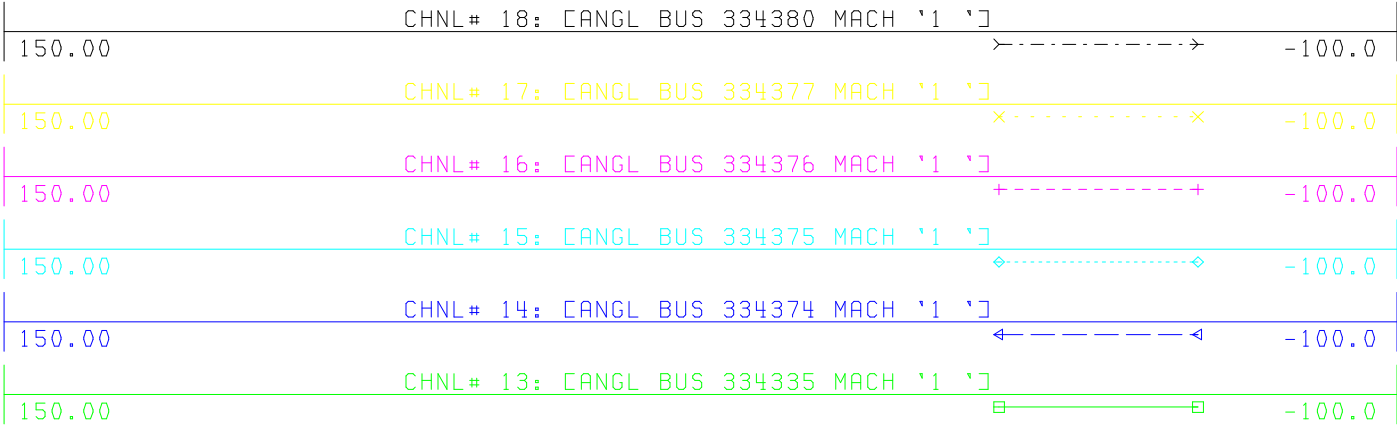


FRI, JUN 13 2008 14:56  
MACHINE ANGLES - 02

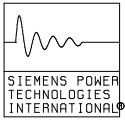


LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out



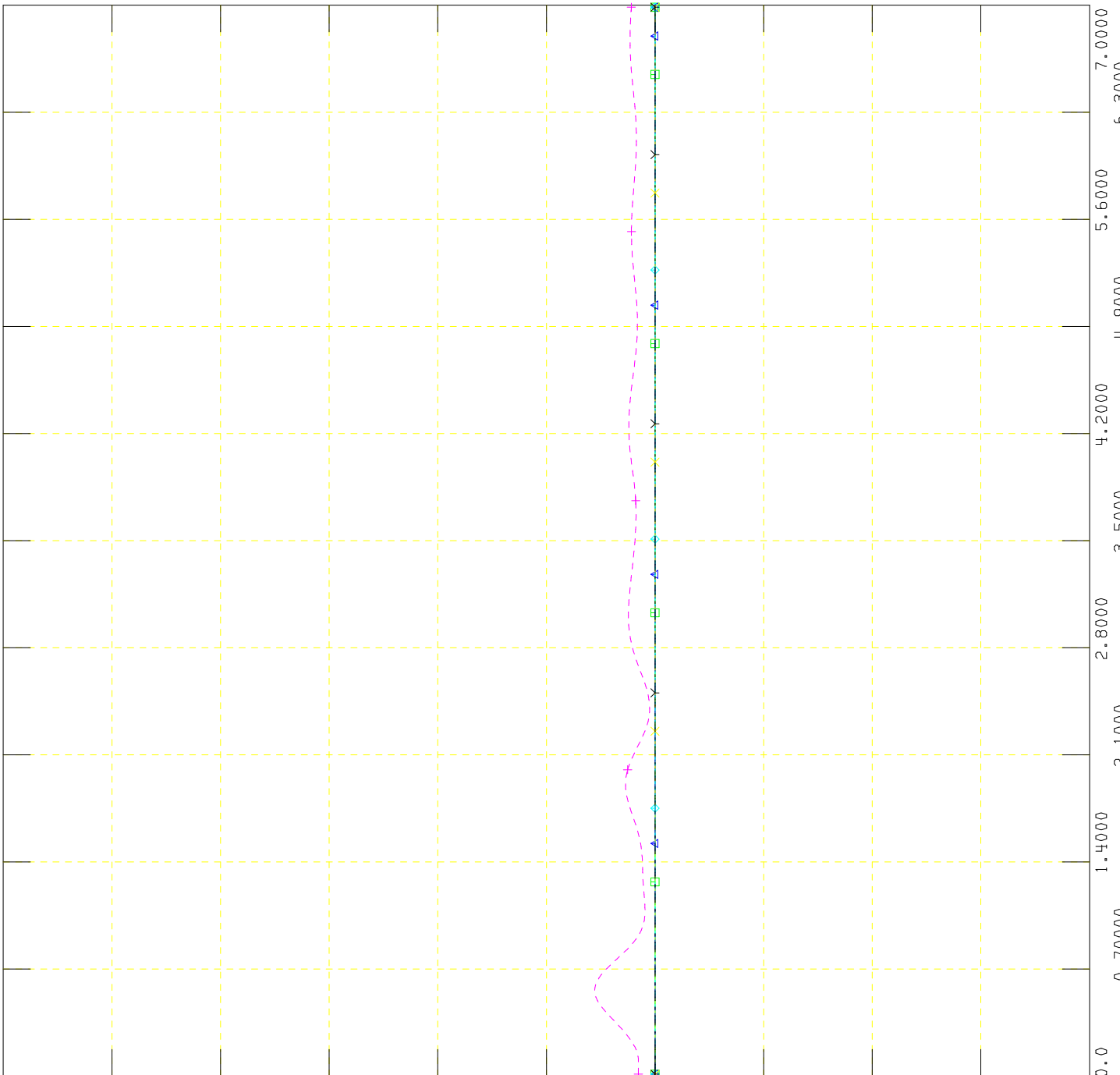
FRI, JUN 13 2008 14:56  
MACHINE ANGLES - 03



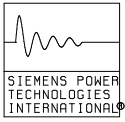
LC  
 LC-PEACHCRK  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



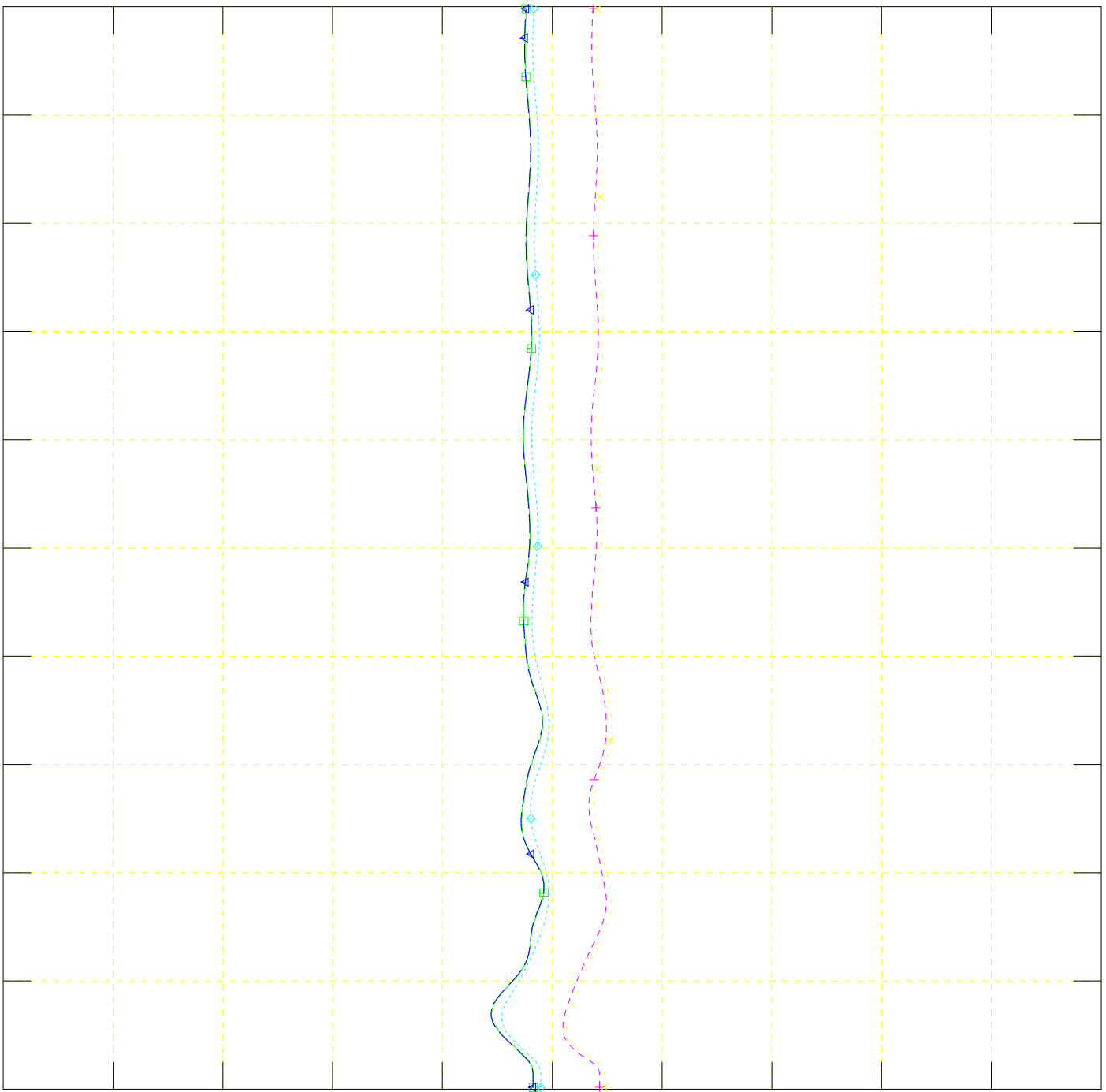
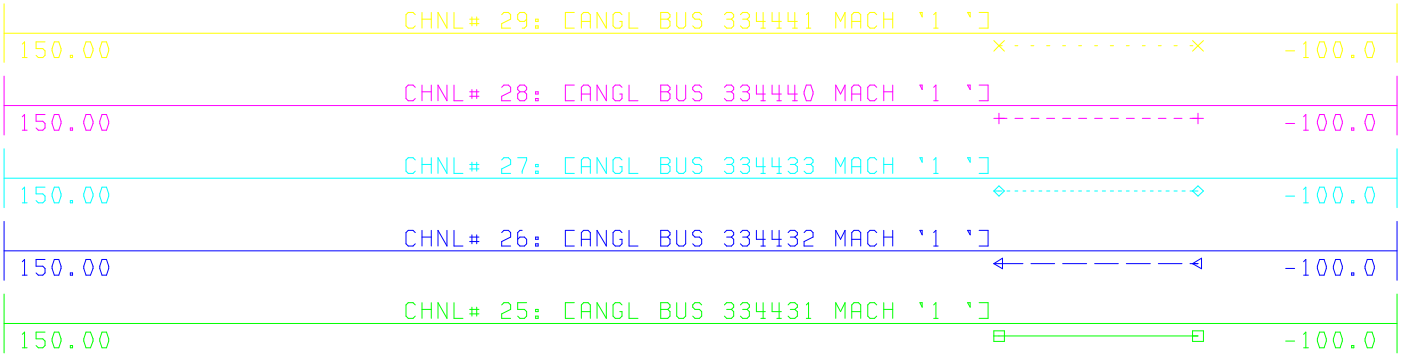
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 MACHINE ANGLES - 04



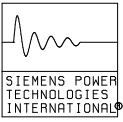
LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

FRI, JUN 13 2008 14:56  
MACHINE ANGLES - 05



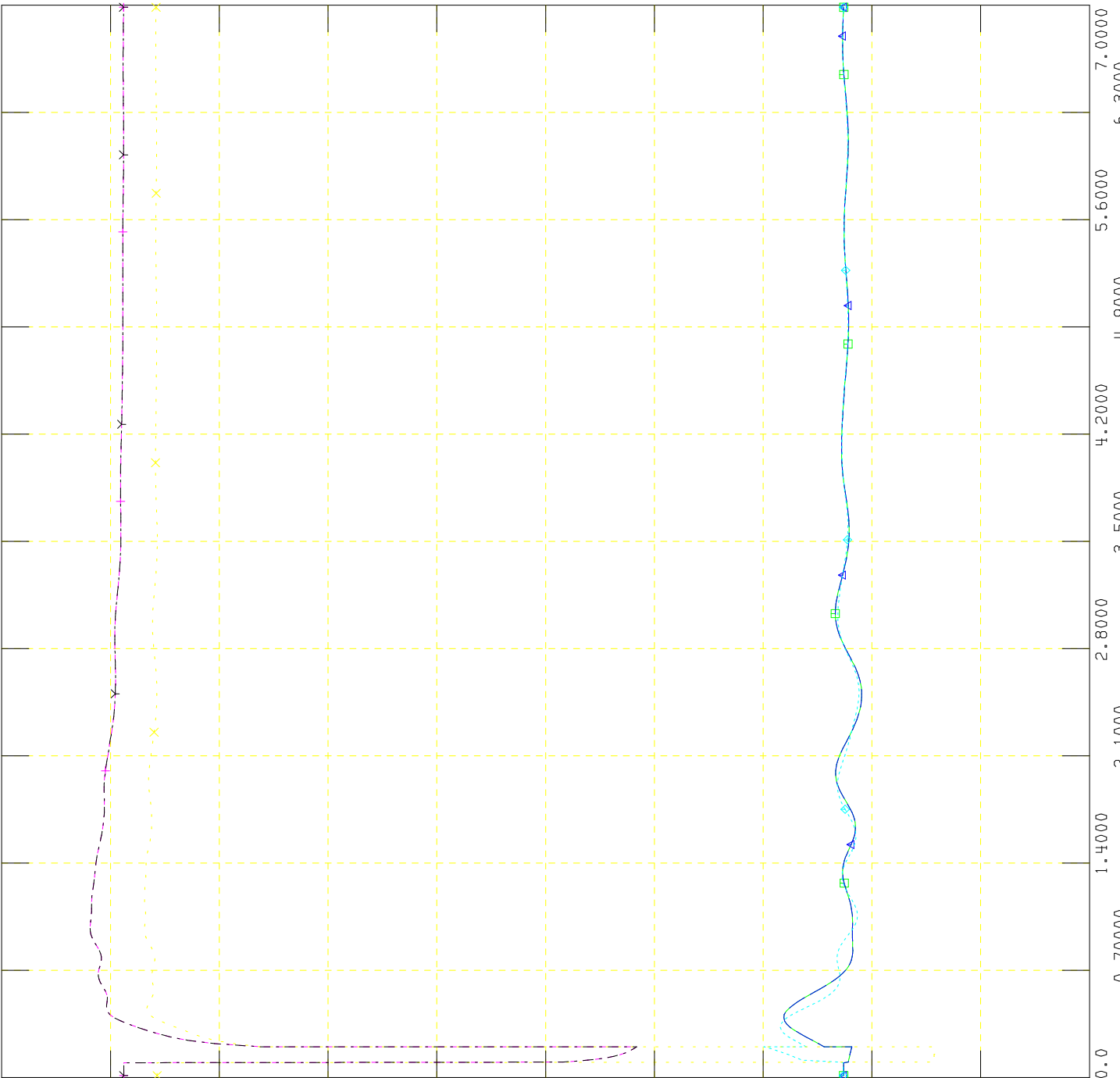




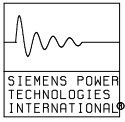
LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



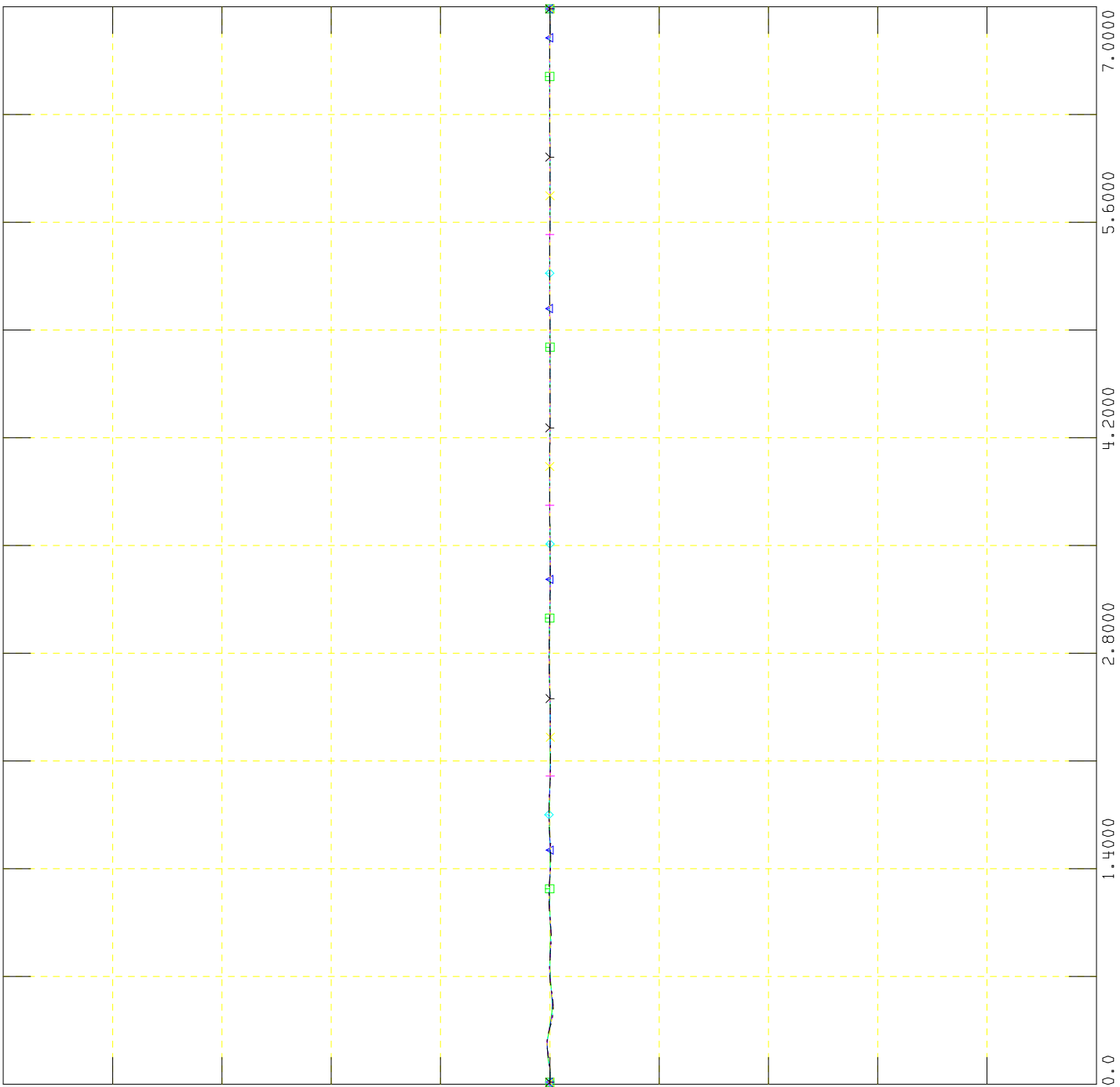
FRI, JUN 13 2008 14:56  
ANG & VOLT - PID-211 GENS



LC  
 LC-PEACHCRK  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

0.50000	CHNL# 41: [FREQ 334065 [4LACON 138.00]]	-0.50000
0.50000	CHNL# 40: [FREQ 334064 [8LNG 413 138.00]]	-0.50000
0.50000	CHNL# 39: [FREQ 334063 [4EVGRN* 138.00]]	-0.50000
0.50000	CHNL# 38: [FREQ 334062 [4TEMCO 138.00]]	-0.50000
0.50000	CHNL# 37: [FREQ 334061 [4GOREE 138.00]]	-0.50000
0.50000	CHNL# 36: [FREQ 334060 [4MT.ZION 138.00]]	-0.50000



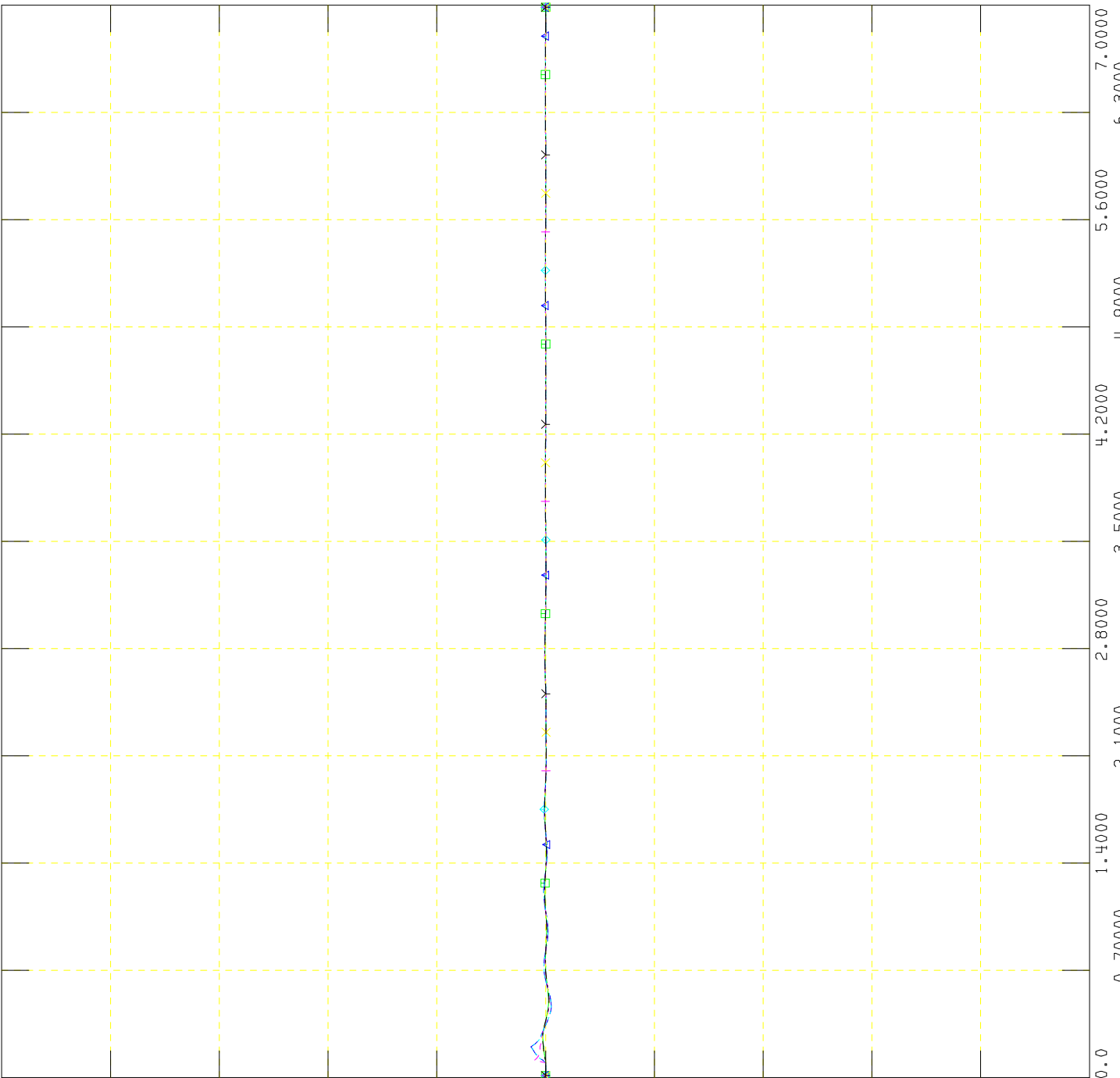
FRI, JUN 13 2008 14:56  
 MACHINE FREQUENCIES - 01



LC  
 LC-PEACHCRK  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



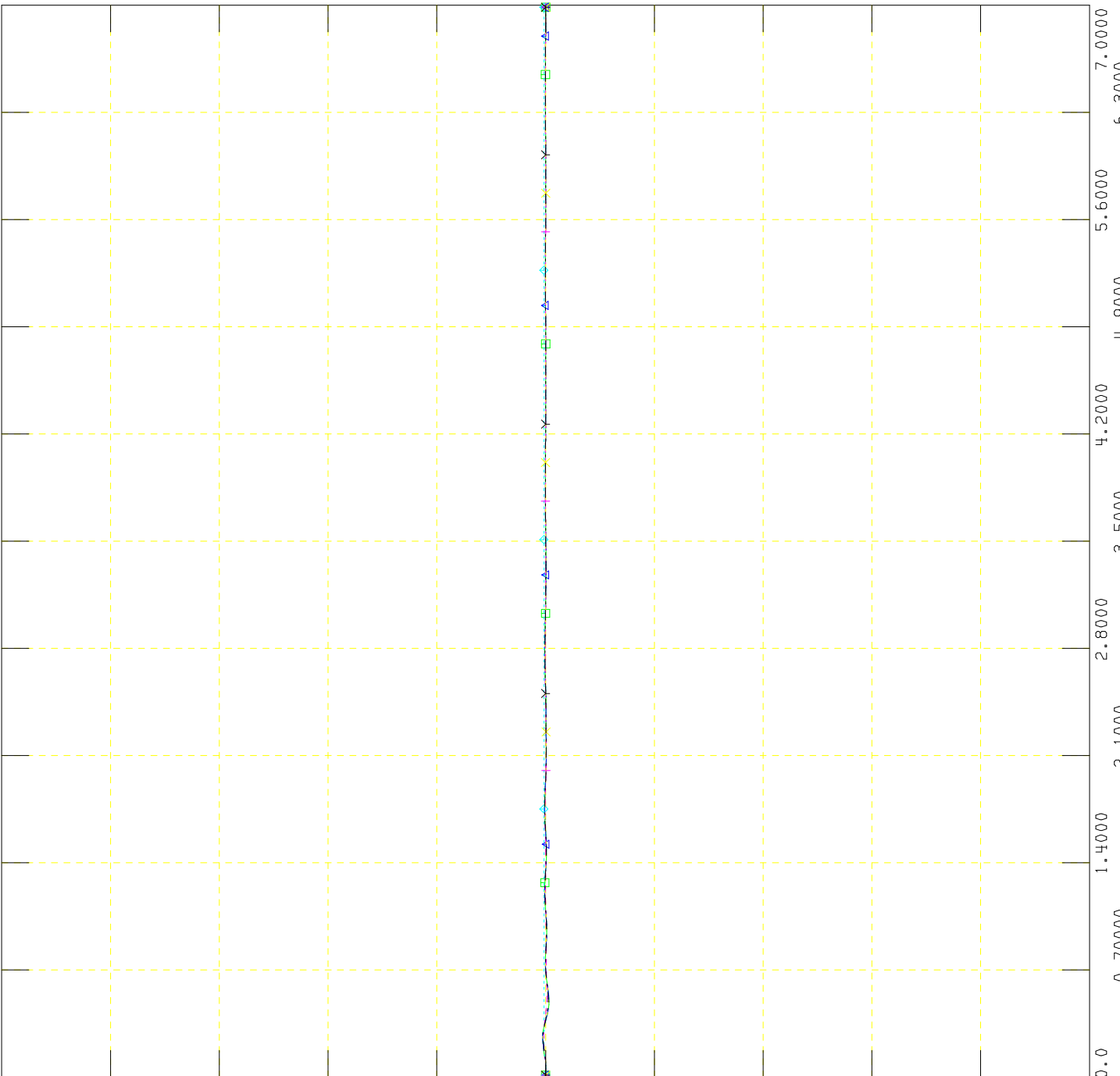
FRI, JUN 13 2008 14:56  
 MACHINE FREQUENCIES - 02



LC  
 LC-PEACHCRK  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



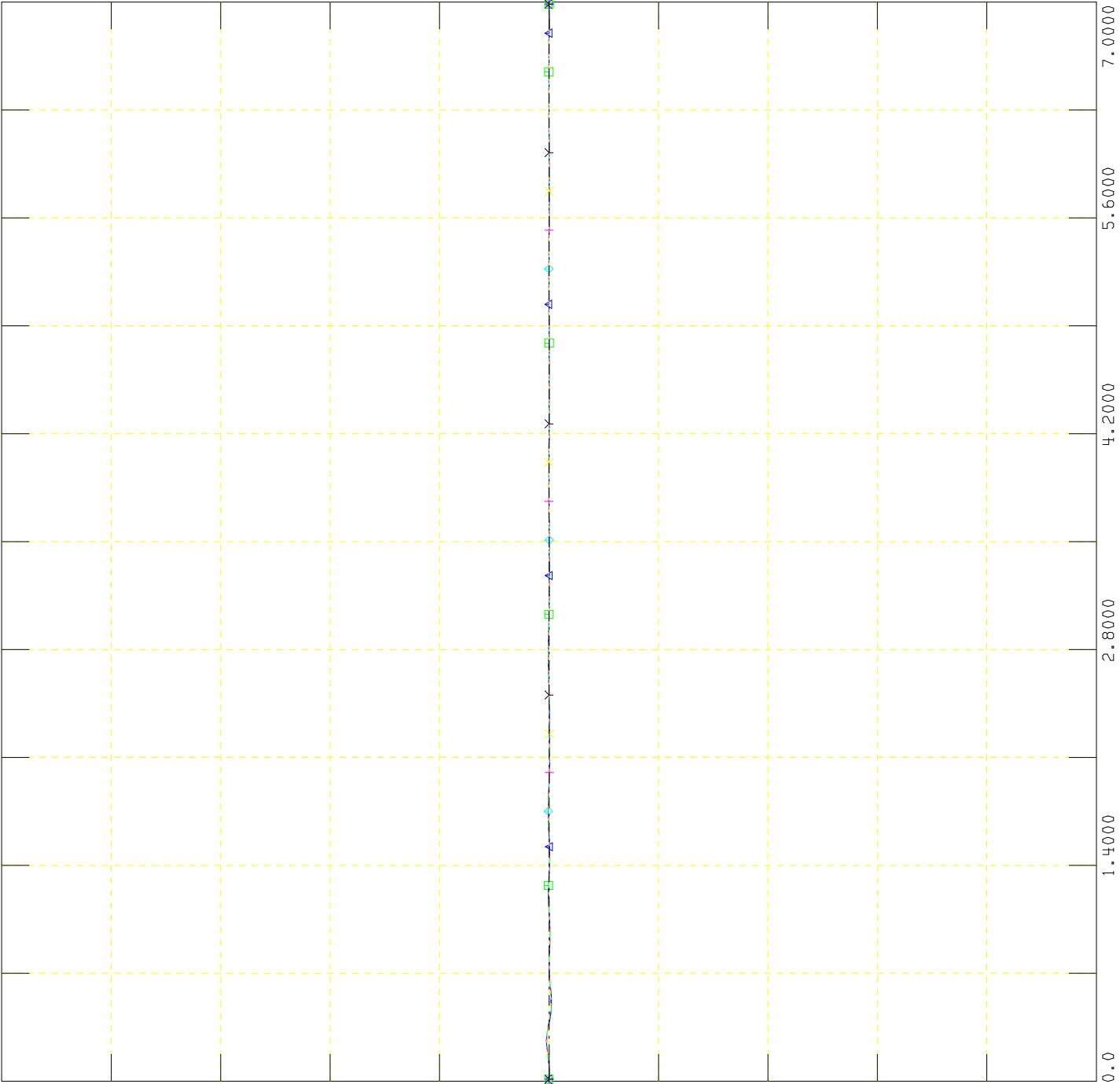
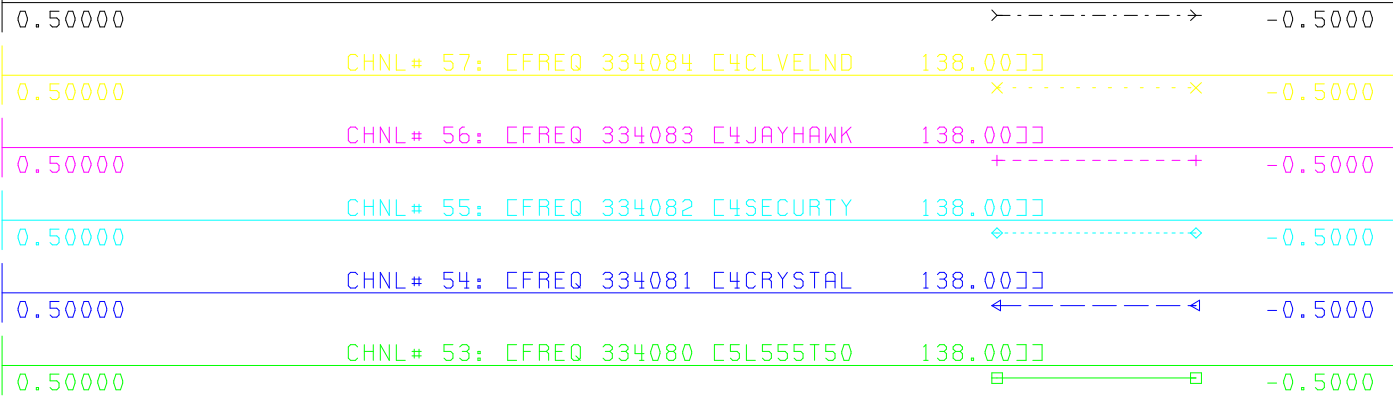
FRI, JUN 13 2008 14:56  
 MACHINE FREQUENCIES - 03



LC  
 LC-PEACHCRK  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 14:56  
 MACHINE FREQUENCIES - 04

TIME (SECONDS)

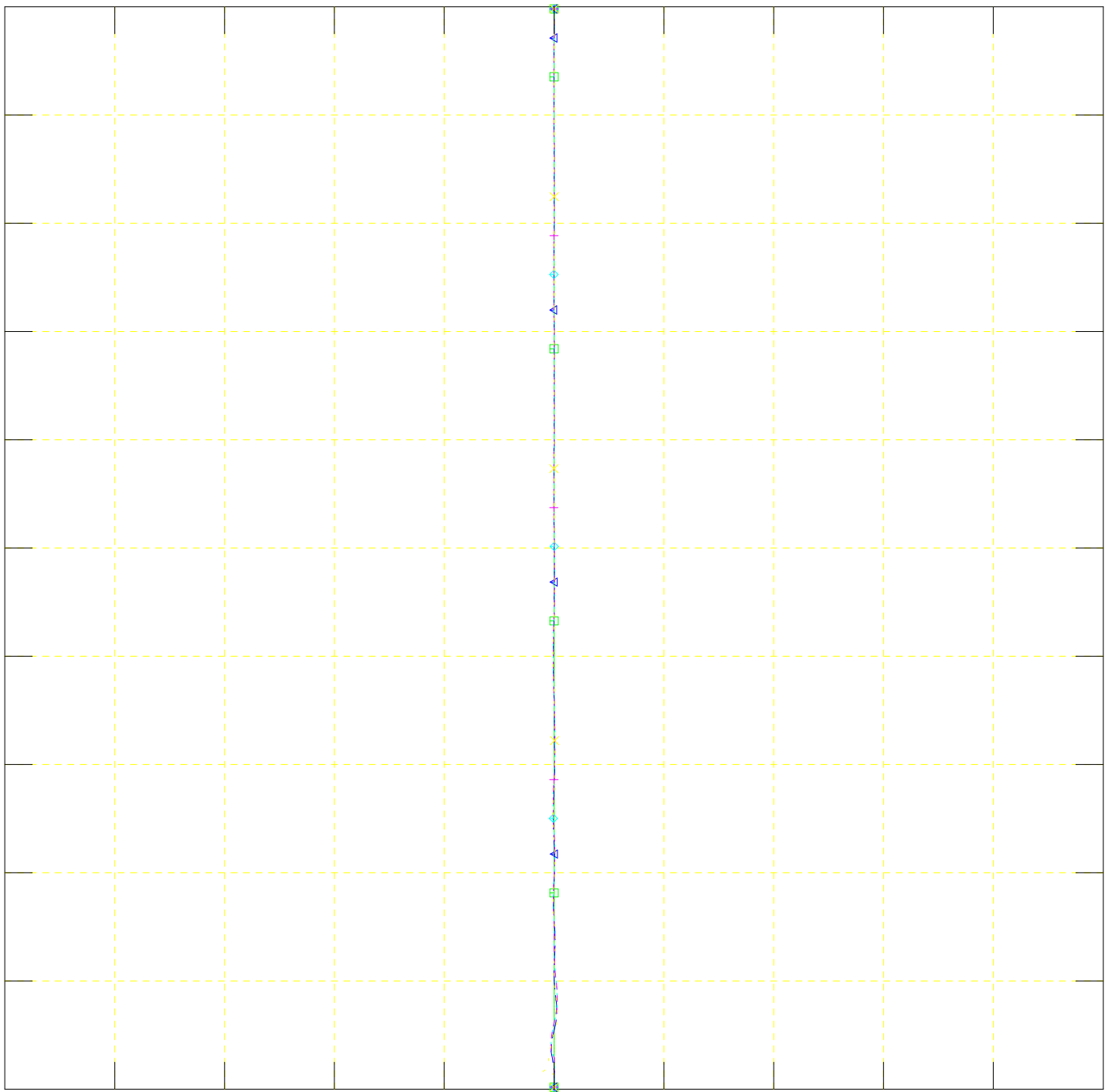


LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

FRI, JUN 13 2008 14:56  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value	Symbol
CHNL# 63	CFREQ 99183 [G3PID211	18.000]]	x
CHNL# 62	CFREQ 99182 [G2PID211	18.000]]	+
CHNL# 61	CFREQ 99181 [G1PID211	18.000]]	◇
CHNL# 60	CFREQ 334090 [4ALDEN	138.00]]	△
CHNL# 59	CFREQ 334086 [6CONROE	230.00]]	□



0.50000  
0.50000  
0.50000  
0.50000  
0.50000  
-0.5000  
-0.5000  
-0.5000  
-0.5000  
-0.5000

7.0000  
6.3000  
5.6000  
4.9000  
4.2000  
3.5000  
2.8000  
2.1000  
1.4000  
0.70000  
0.0

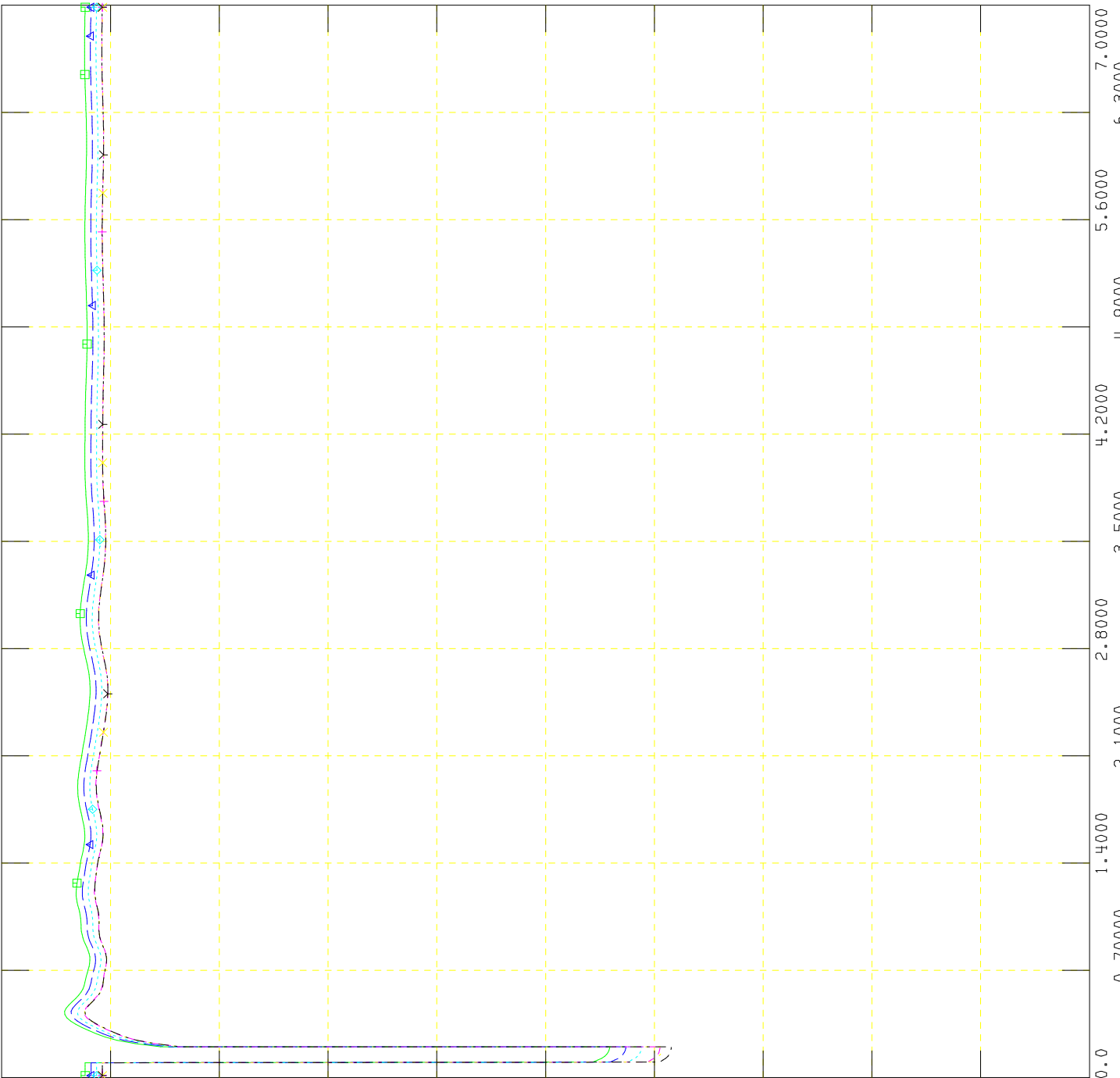
TIME (SECONDS)



LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



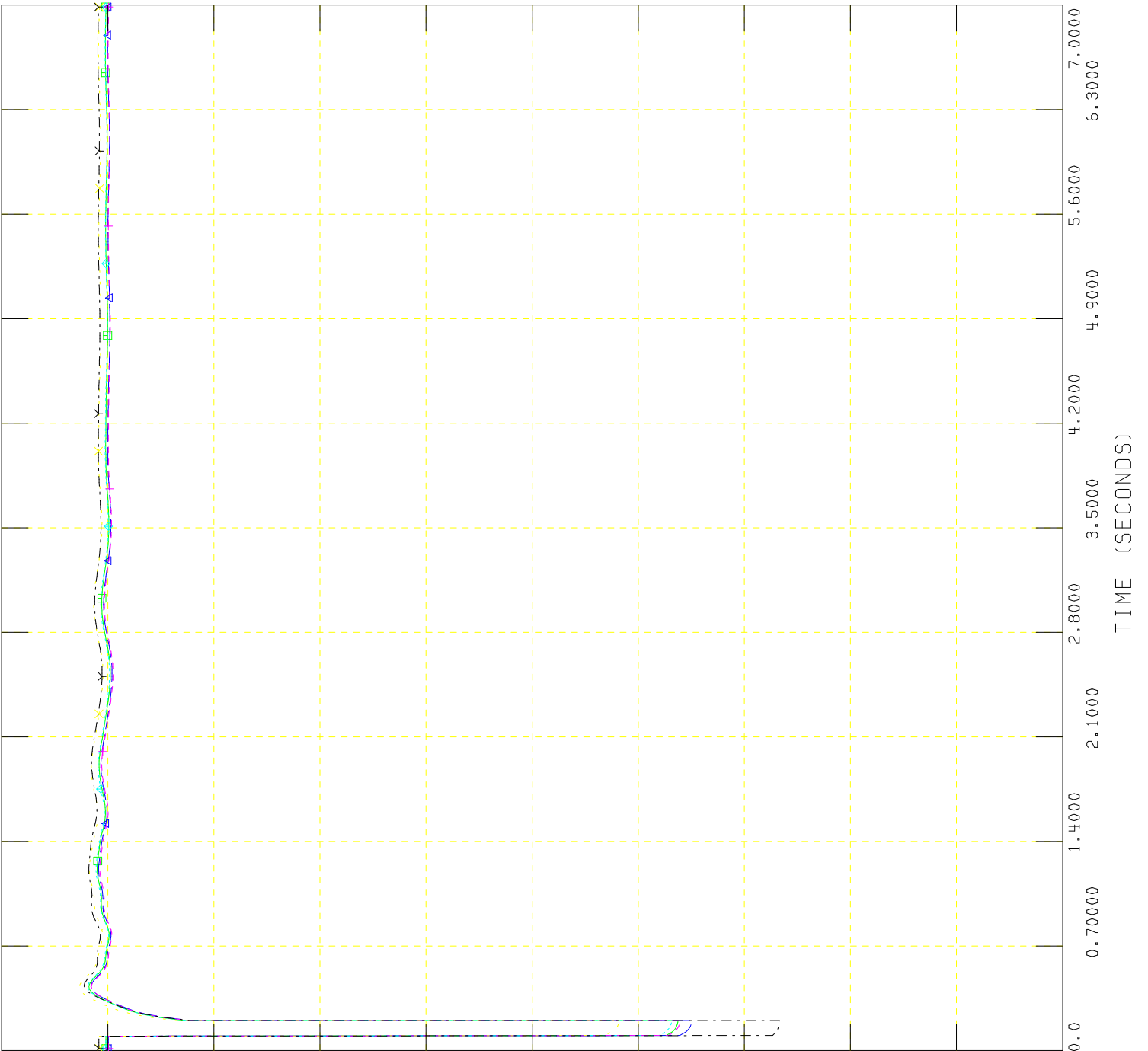
FRI, JUN 13 2008 14:56  
BUS VOLTAGES - 01



LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



FRI, JUN 13 2008 14:56  
BUS VOLTAGES - 02

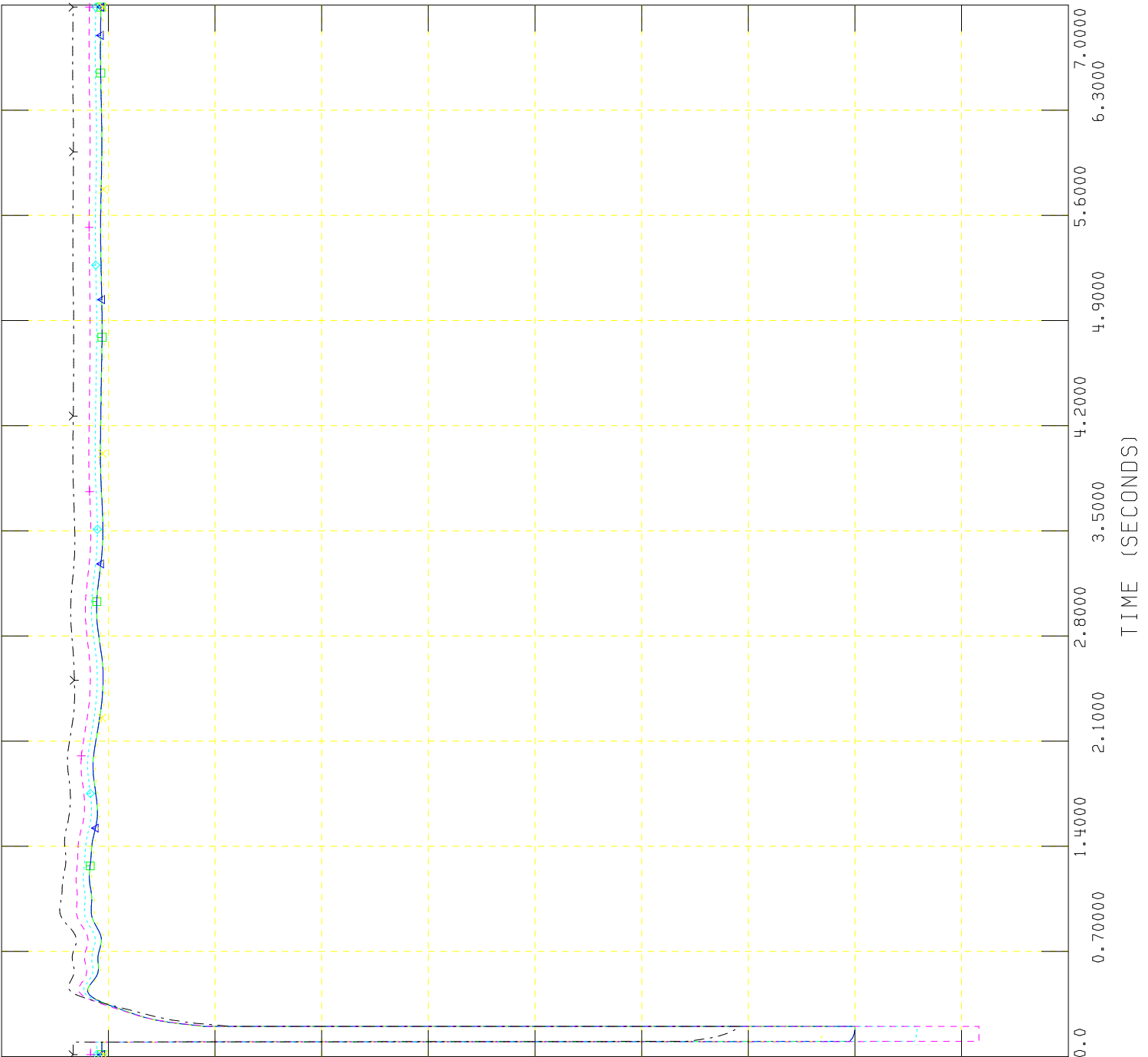




LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

Channel	Value	Unit
CHNL# 81: EVOLT 334070 [G1LEWIS 22.000]]	1.1000	-0.1000
CHNL# 80: EVOLT 334066 [4GEORGIA 138.00]]	1.1000	-0.1000
CHNL# 79: EVOLT 334065 [4LACON 138.00]]	1.1000	-0.1000
CHNL# 78: EVOLT 334064 [8LNG 413 138.00]]	1.1000	-0.1000
CHNL# 77: EVOLT 334063 [4EVGRN* 138.00]]	1.1000	-0.1000
CHNL# 76: EVOLT 334062 [4TEMCO 138.00]]	1.1000	-0.1000



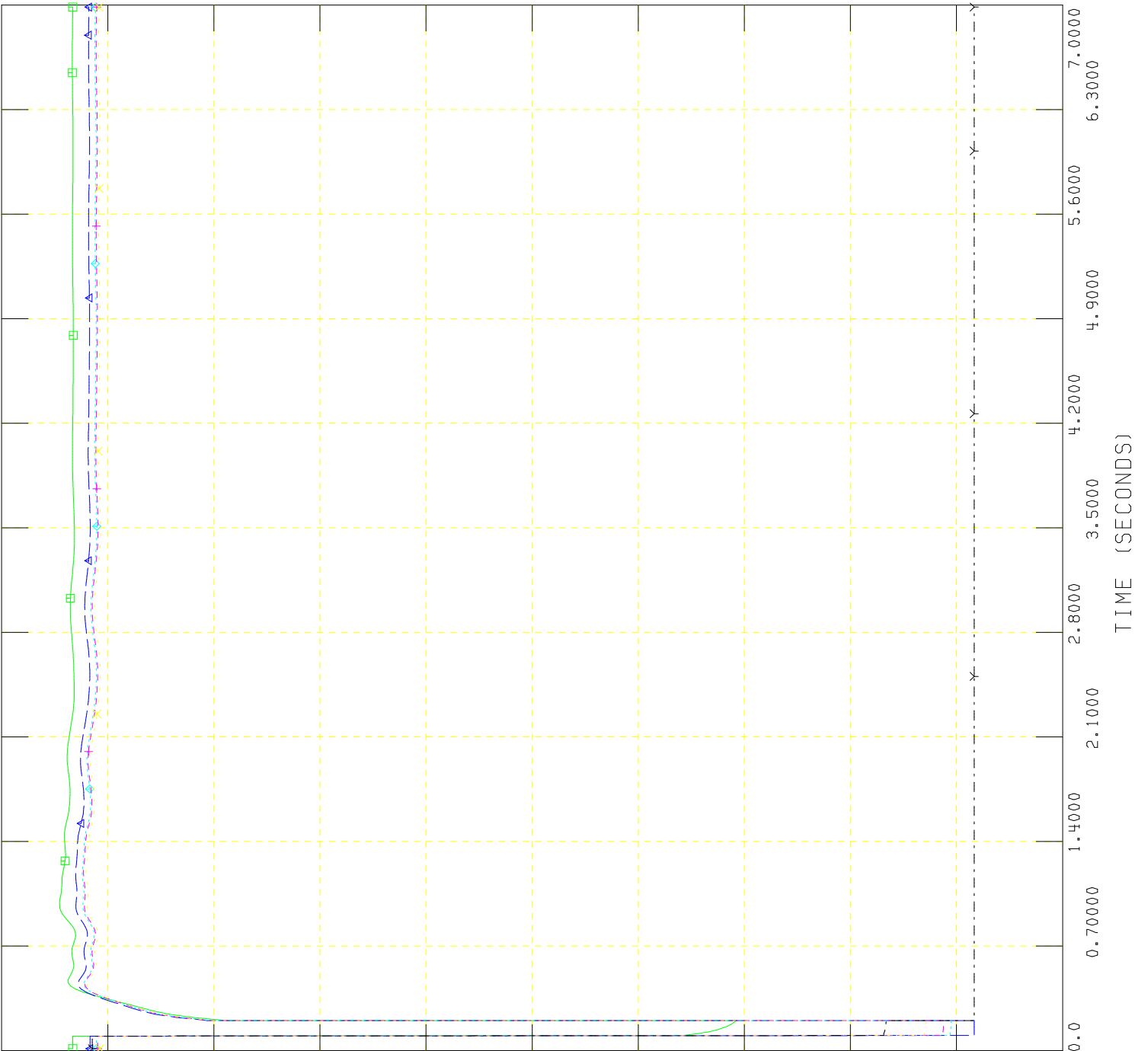
FRI, JUN 13 2008 14:56  
BUS VOLTAGES - 03



LC  
 LC-PEACHCRK  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



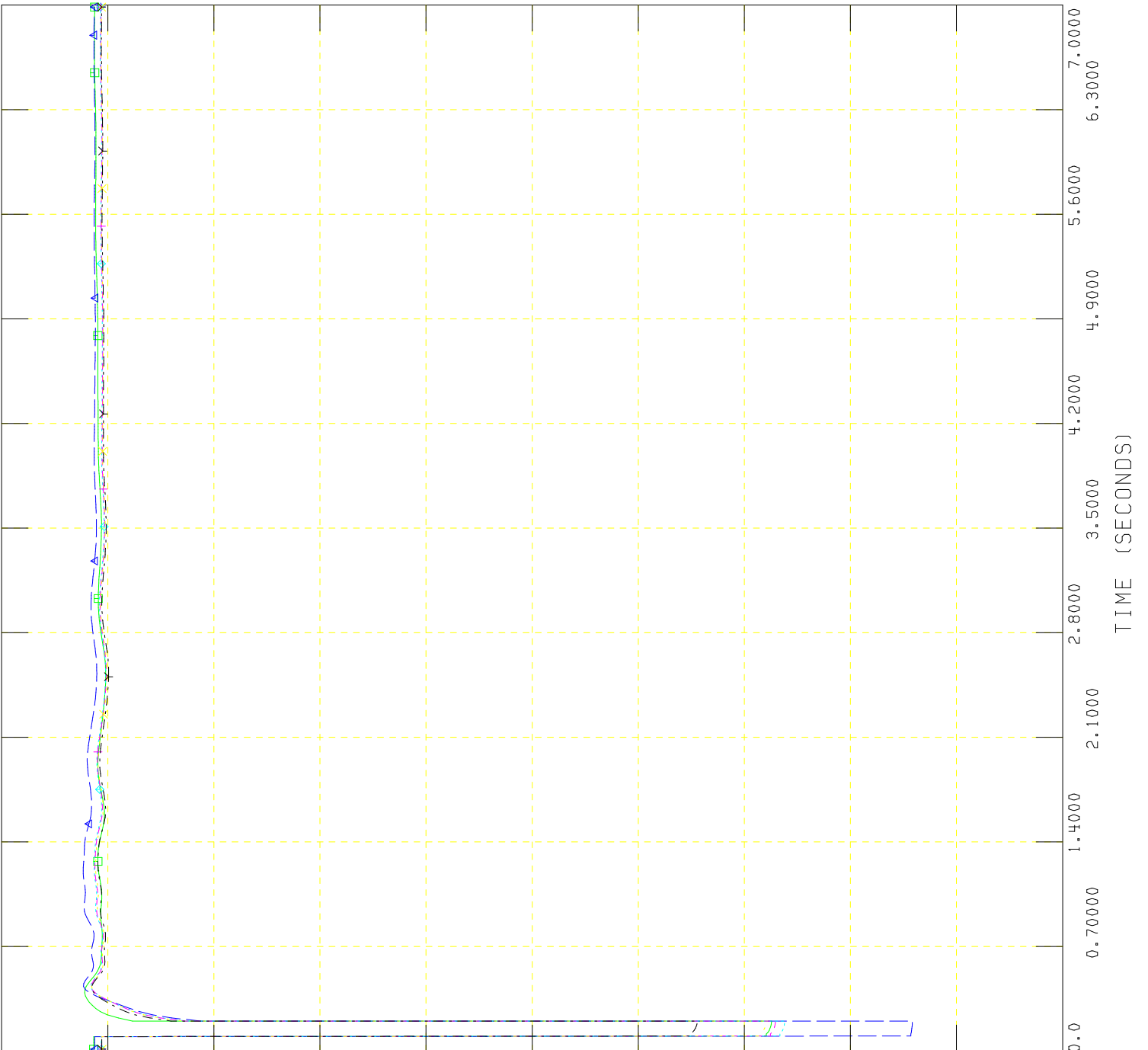
FRI, JUN 13 2008 14:57  
 BUS VOLTAGES - 04



LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



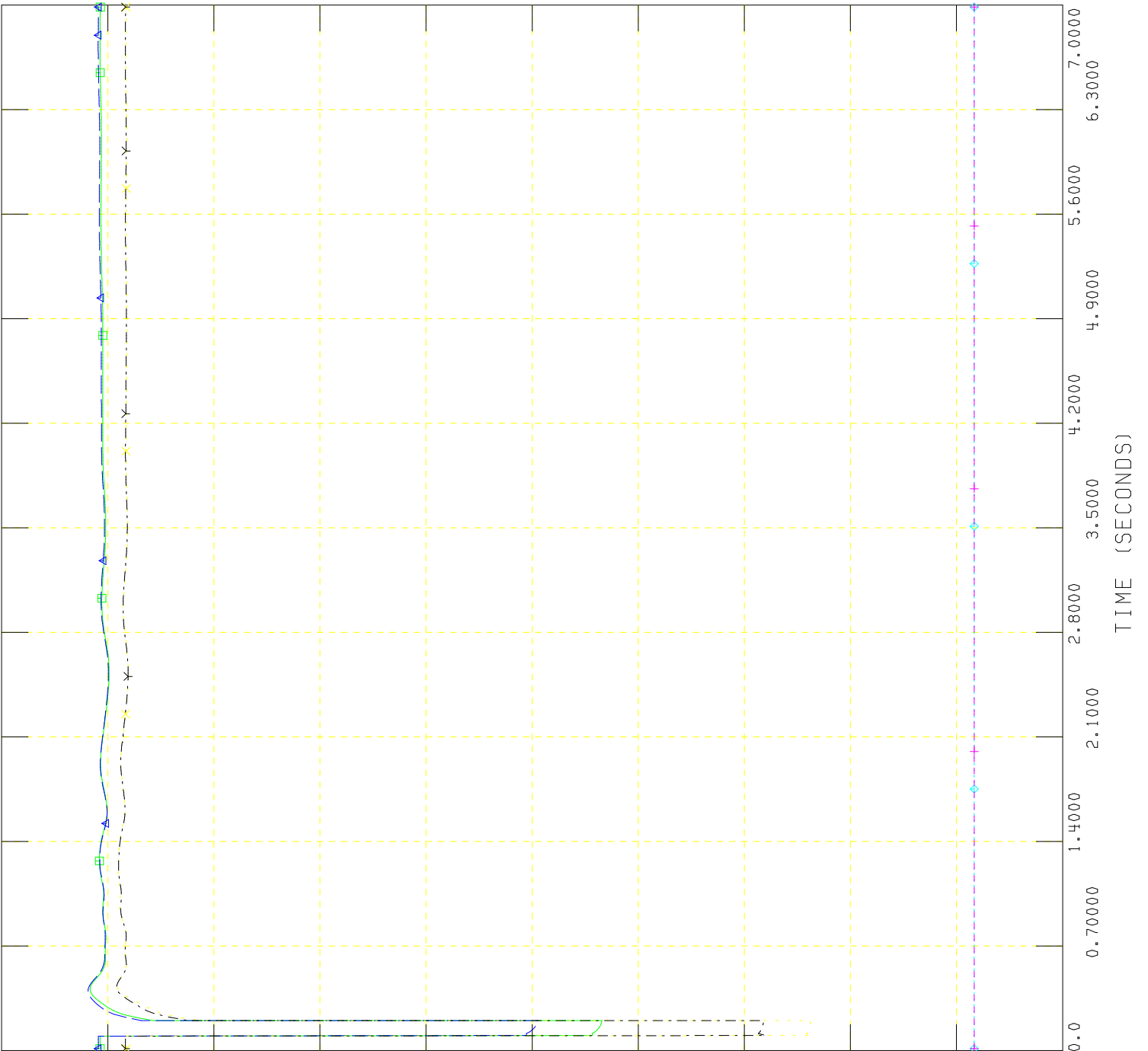
FRI, JUN 13 2008 14:57  
BUS VOLTAGES - 05



LC  
 LC-PEACHCRK  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



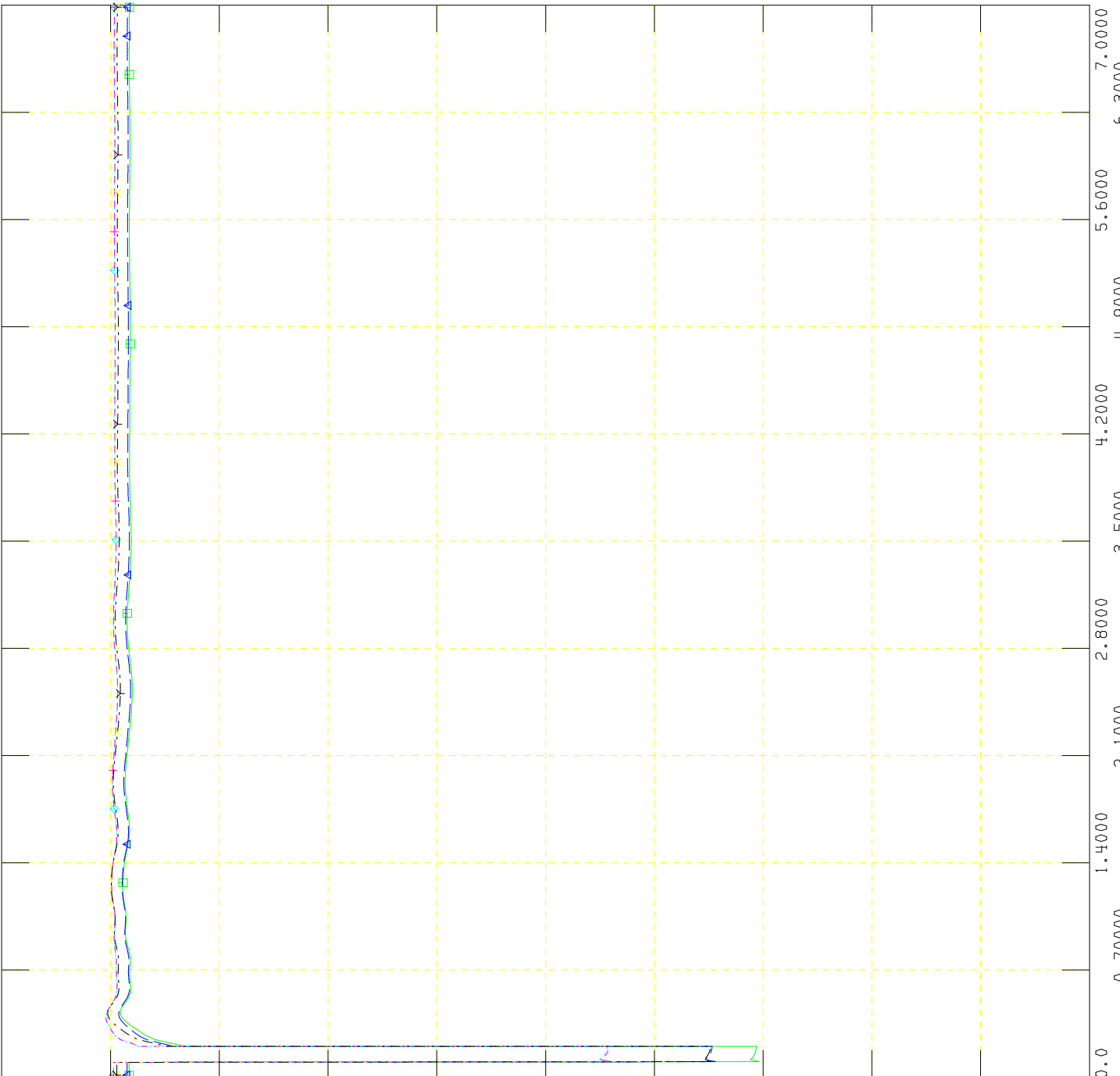
FRI, JUN 13 2008 14:57  
 BUS VOLTAGES - 06



LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



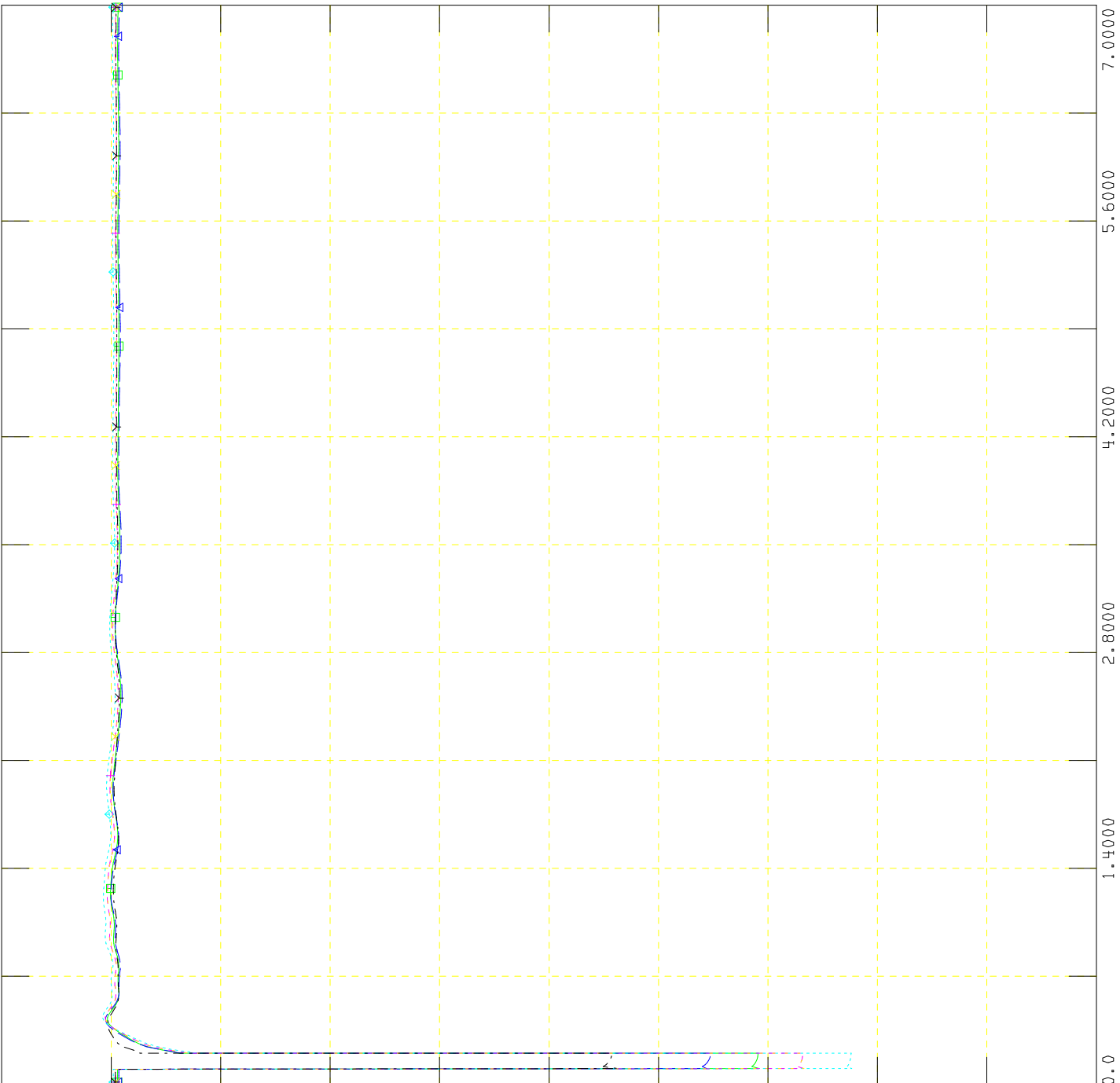
FRI, JUN 13 2008 14:57  
BUS VOLTAGES - 07



LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



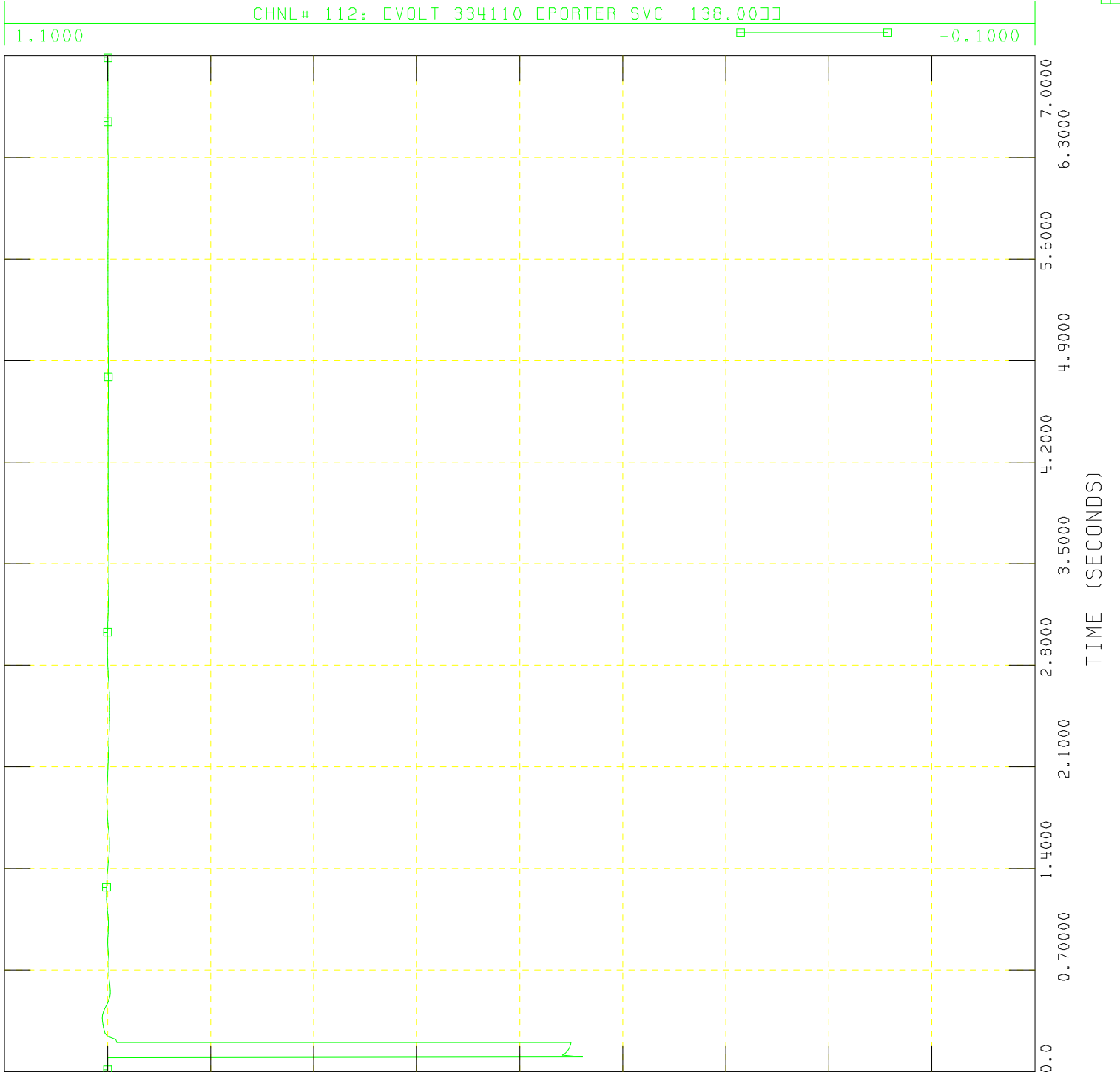
FRI, JUN 13 2008 14:57  
BUS VOLTAGES - 08



LC  
LC-PEACHCRK  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-PeachCrk-7.out

FRI, JUN 13 2008 14:57  
BUS VOLTAGES - 09



**FAULT G1**  
**Lewis Creek 138 kV (Drop CT1)**  
**Normal Clearing Times**

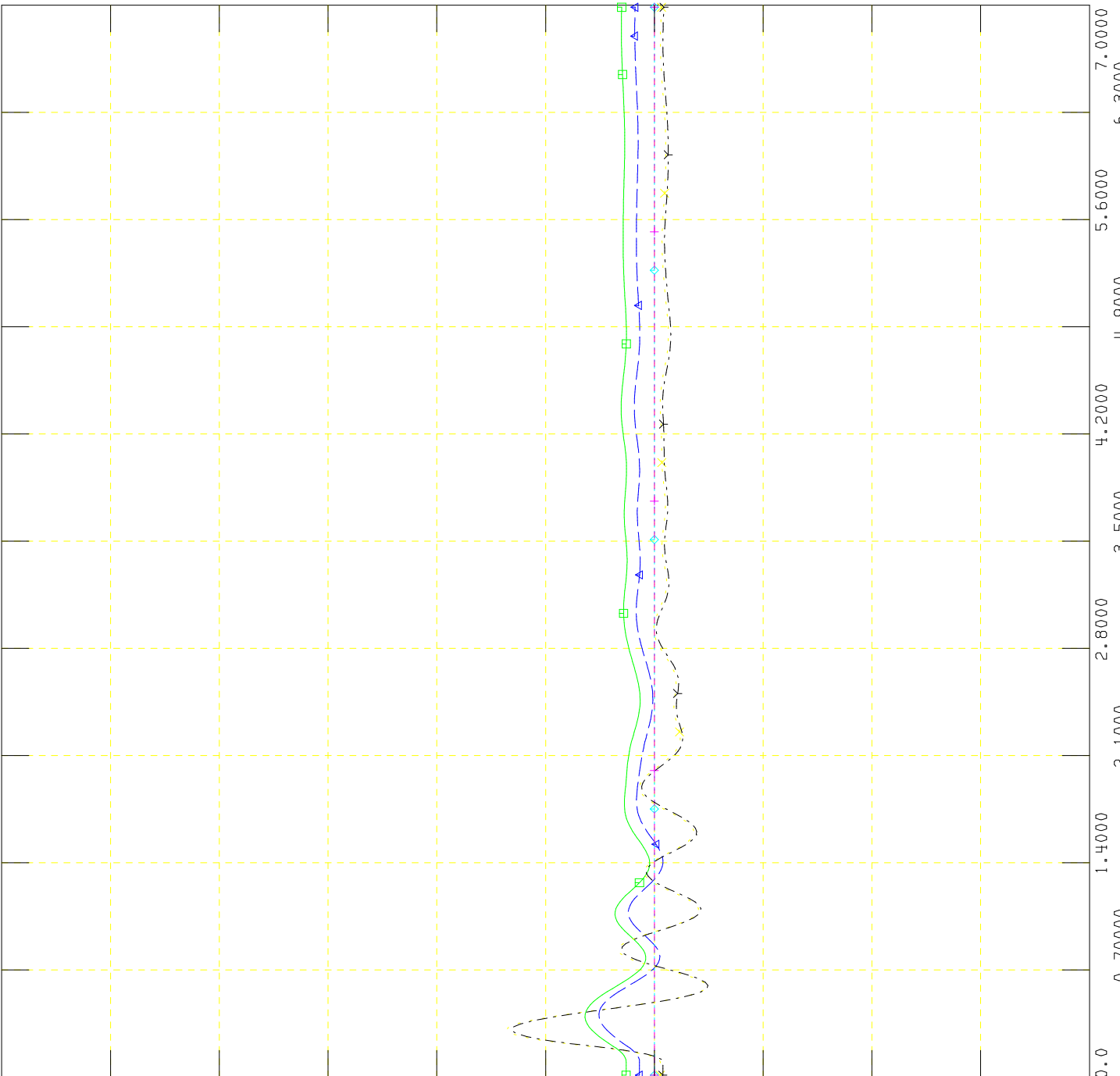




LC  
LC-GENCT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

Channel	Label	Value
CHNL# 6	[ANGL BUS 334071 MACH '1 ']	-100.0
CHNL# 5	[ANGL BUS 334070 MACH '1 ']	-100.0
CHNL# 4	[ANGL BUS 334033 MACH '1 ']	-100.0
CHNL# 3	[ANGL BUS 334032 MACH '1 ']	-100.0
CHNL# 2	[ANGL BUS 334031 MACH '1 ']	-100.0
CHNL# 1	[ANGL BUS 334030 MACH '1 ']	-100.0



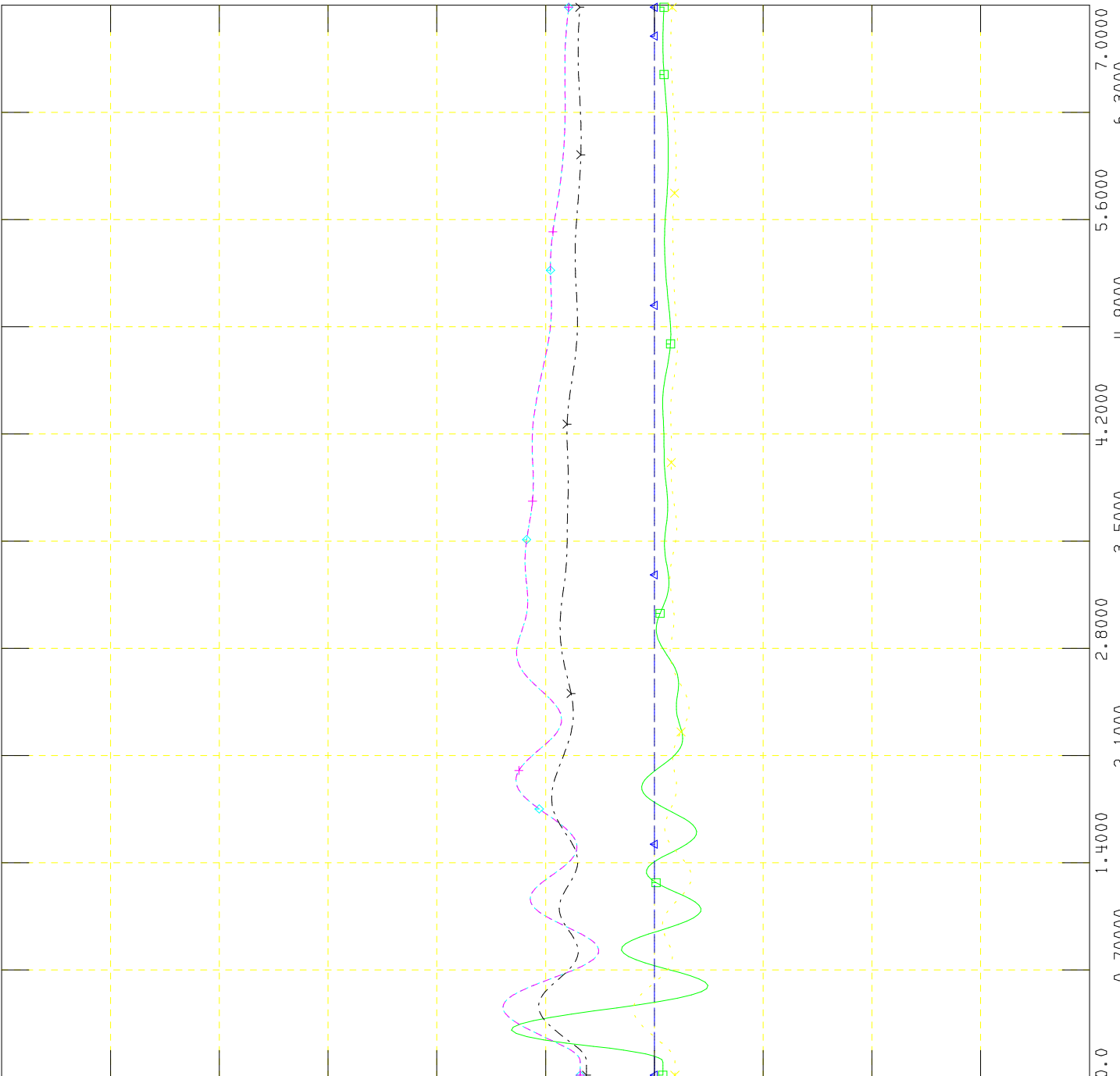
FRI, JUN 13 2008 14:59  
MACHINE ANGLES - 01



LC  
 LC-GENCT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

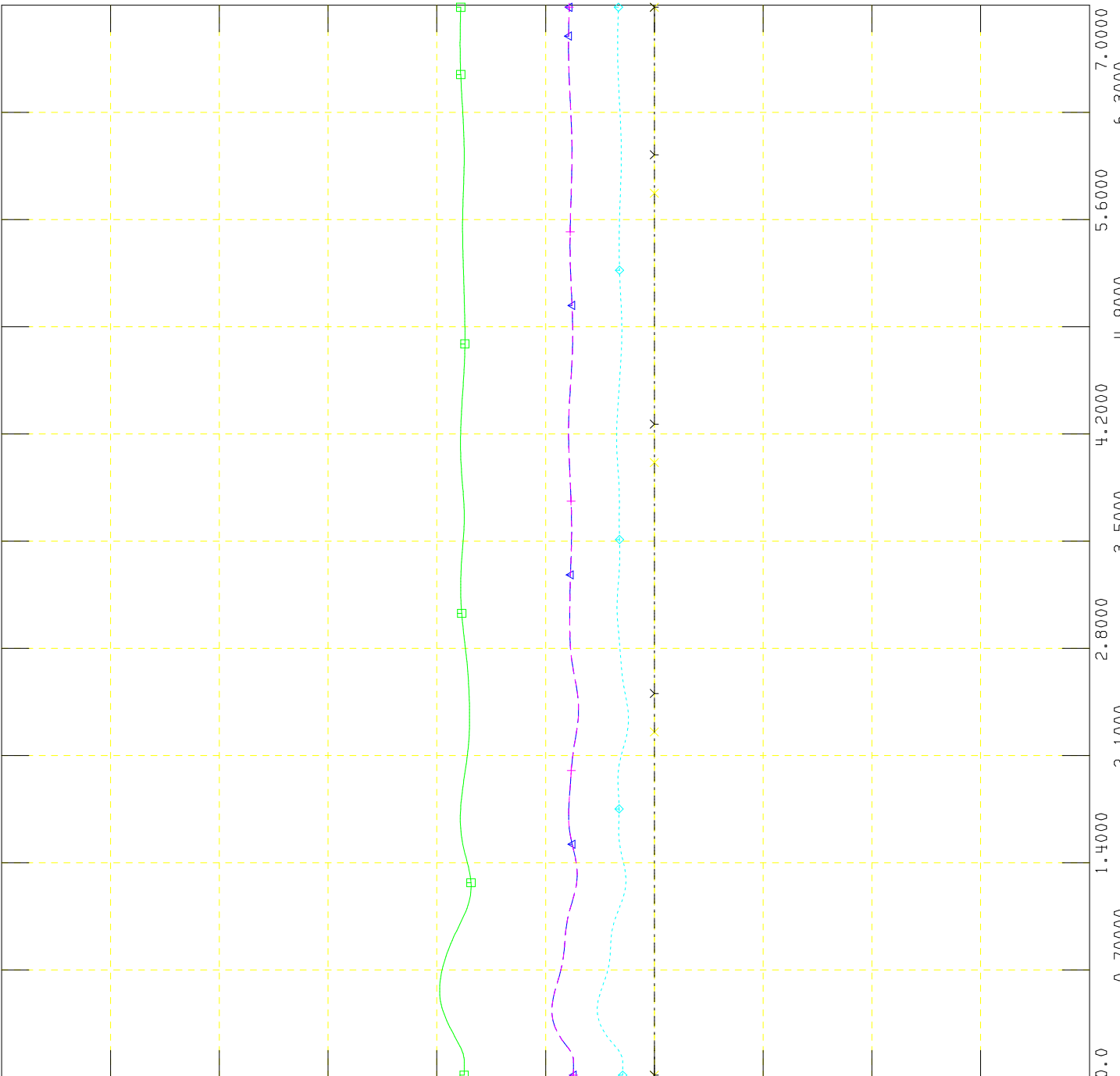
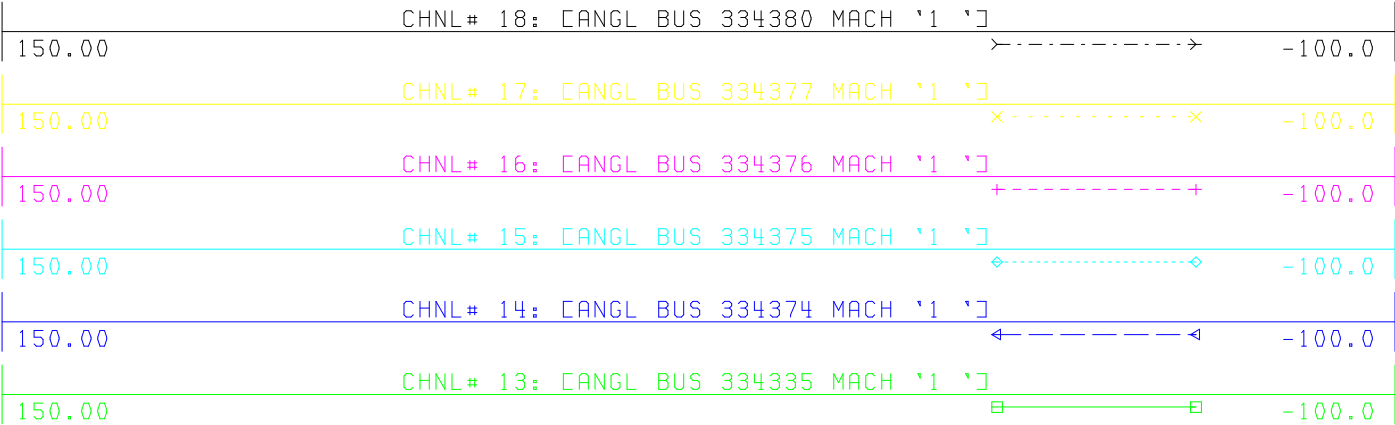


FRI, JUN 13 2008 14:59  
 MACHINE ANGLES - 02



LC  
LC-GENCT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out



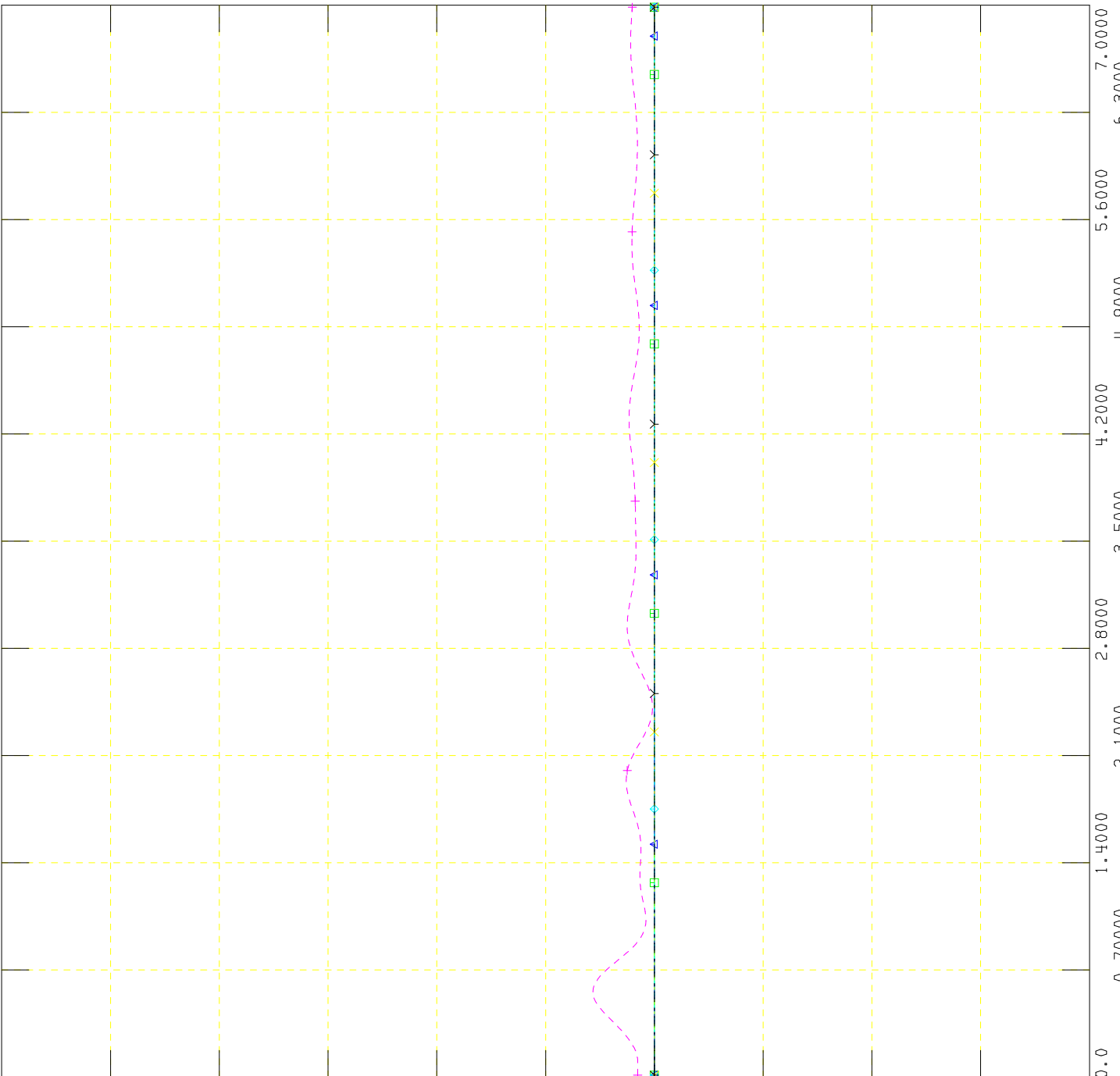
FRI, JUN 13 2008 14:59  
MACHINE ANGLES - 03



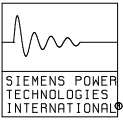
LC  
LC-GENCT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

Value	Channel Label	Marker	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	→	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	×	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	+	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	◇	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	←	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	□	-100.0



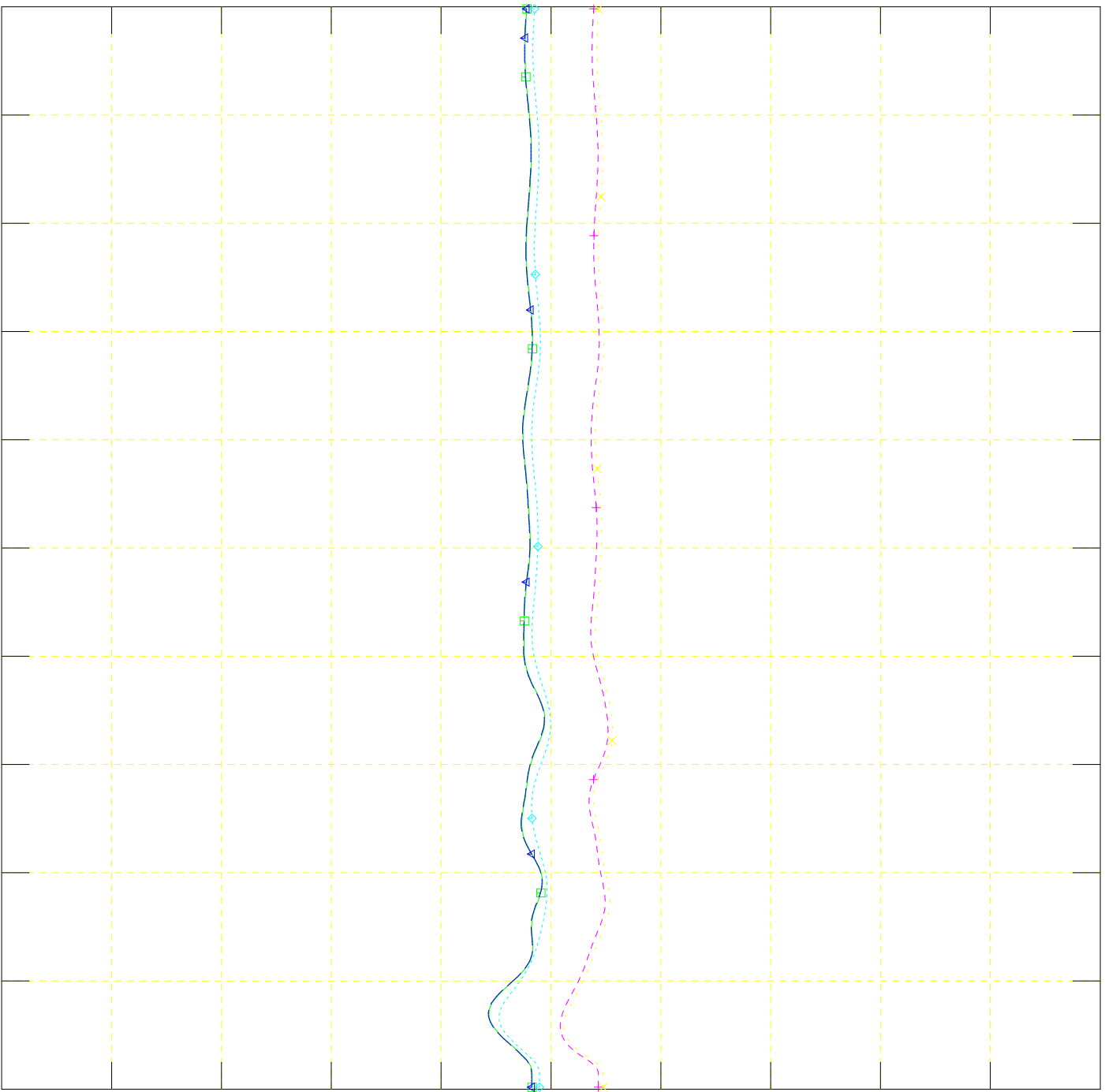
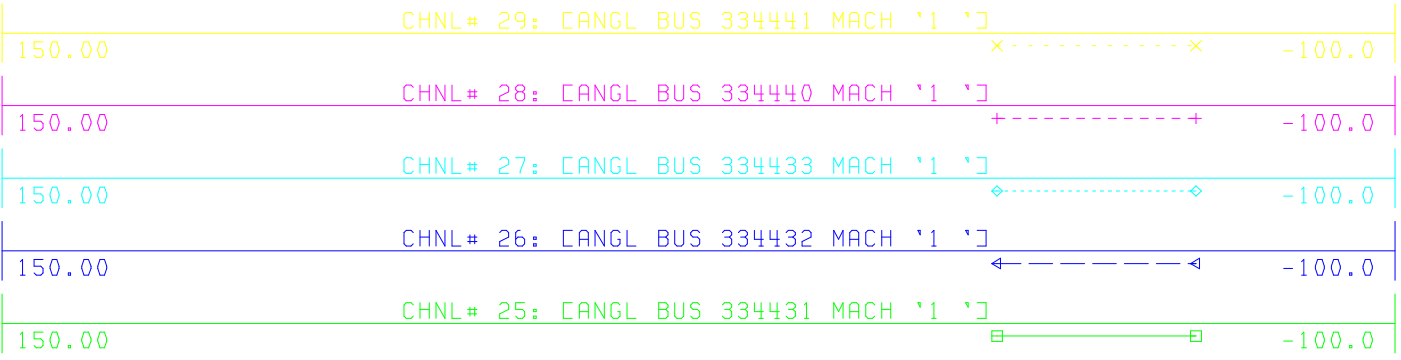
FRI, JUN 13 2008 14:59  
MACHINE ANGLES - 04



LC  
LC-GENCT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

FRI, JUN 13 2008 14:59  
MACHINE ANGLES - 05

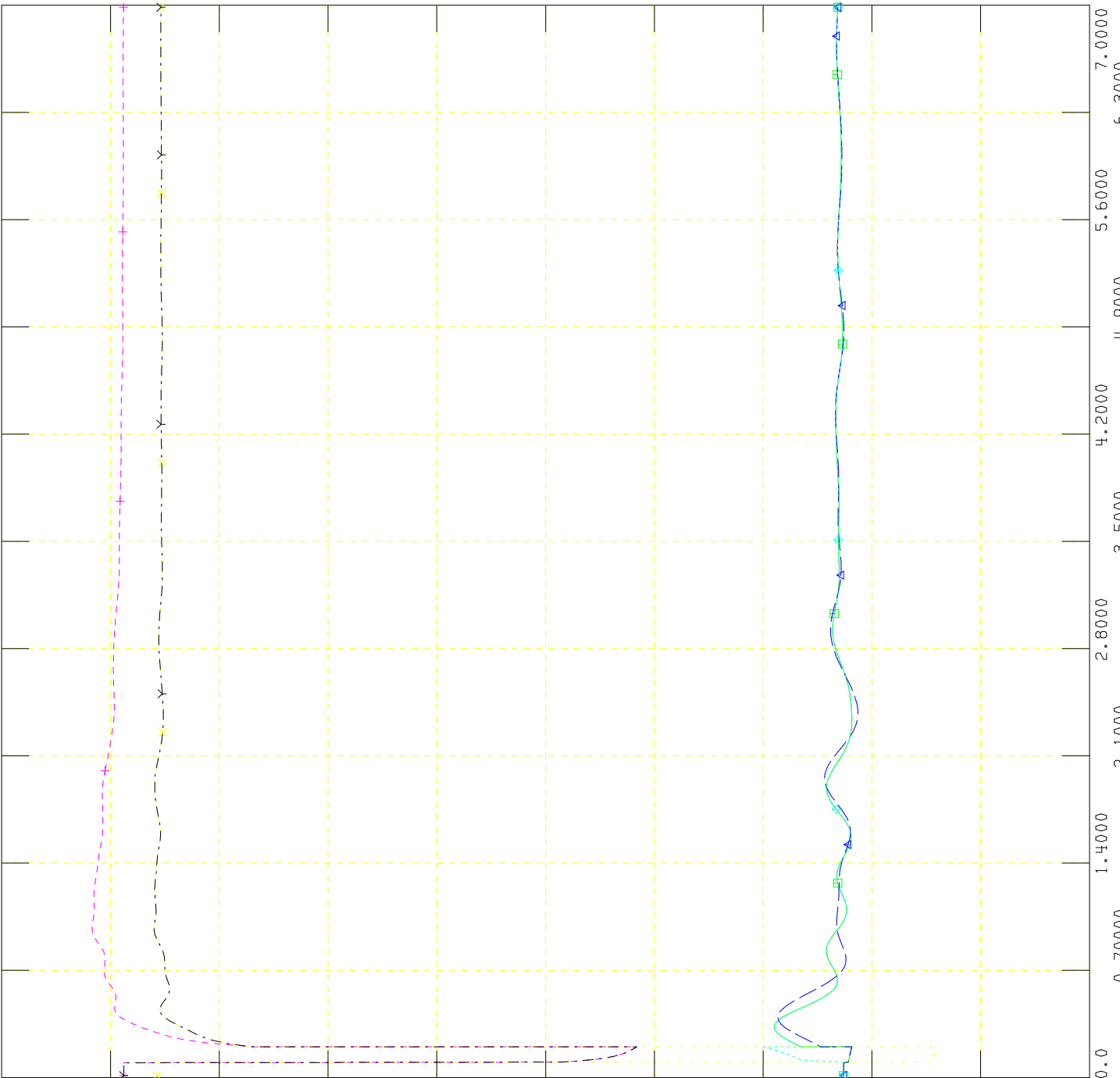




LC  
 LC-GENCT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



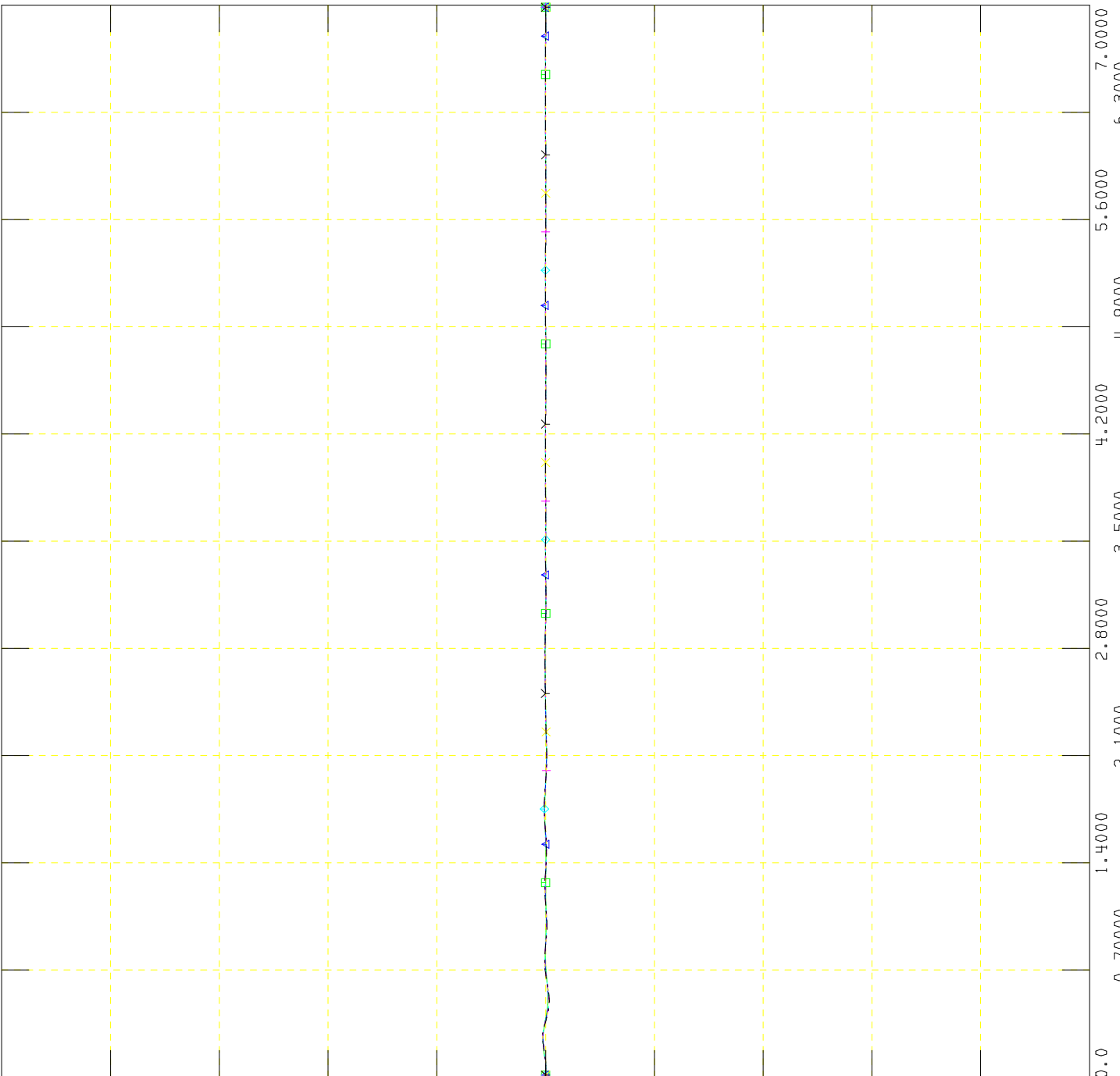
FRI, JUN 13 2008 14:59  
 ANG & VOLT - PID-211 GENS



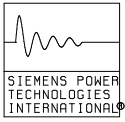
LC  
 LC-GENCT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

0.50000	CHNL# 41: [FREQ 334065 [4LACON 138.00]]	-0.50000
0.50000	CHNL# 40: [FREQ 334064 [8LNG 413 138.00]]	-0.50000
0.50000	CHNL# 39: [FREQ 334063 [4EVGRN* 138.00]]	-0.50000
0.50000	CHNL# 38: [FREQ 334062 [4TEMCO 138.00]]	-0.50000
0.50000	CHNL# 37: [FREQ 334061 [4GOREE 138.00]]	-0.50000
0.50000	CHNL# 36: [FREQ 334060 [4MT.ZION 138.00]]	-0.50000



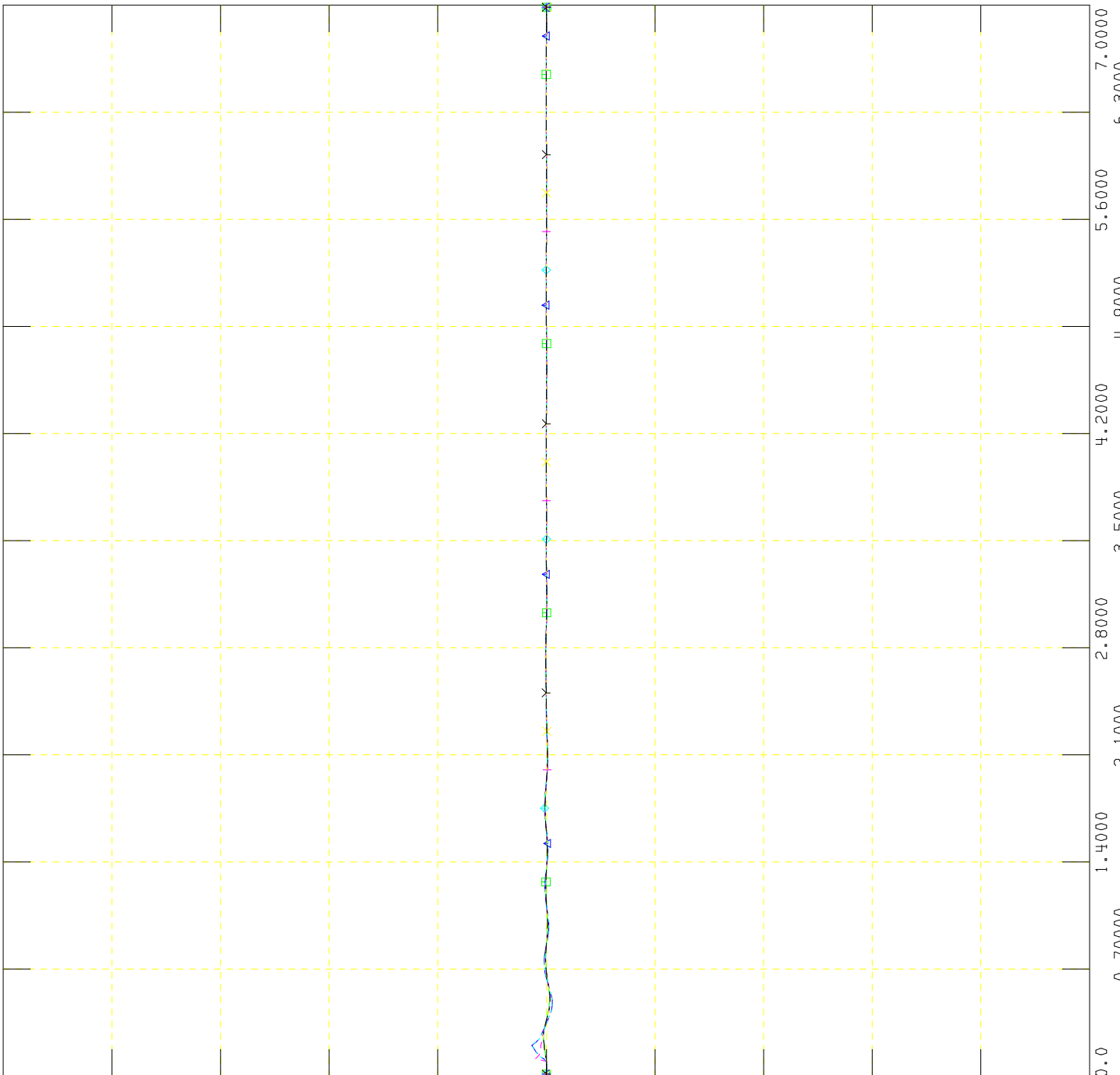
FRI, JUN 13 2008 14:59  
 MACHINE FREQUENCIES - 01



LC  
LC-GENCT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

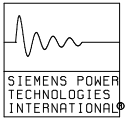
0.50000	CHNL# 47: CFREQ 334074 C4PANORAM	138.0000	-0.50000
0.50000	CHNL# 46: CFREQ 334073 C4EGYPT	138.0000	-0.50000
0.50000	CHNL# 45: CFREQ 334072 C4LEWIS	138.0000	-0.50000
0.50000	CHNL# 44: CFREQ 334071 C62LEWIS	22.0000	-0.50000
0.50000	CHNL# 43: CFREQ 334070 C61LEWIS	22.0000	-0.50000
0.50000	CHNL# 42: CFREQ 334066 C4GEORGIA	138.0000	-0.50000



FRI, JUN 13 2008 14:59  
MACHINE FREQUENCIES - 02

TIME (SECONDS)

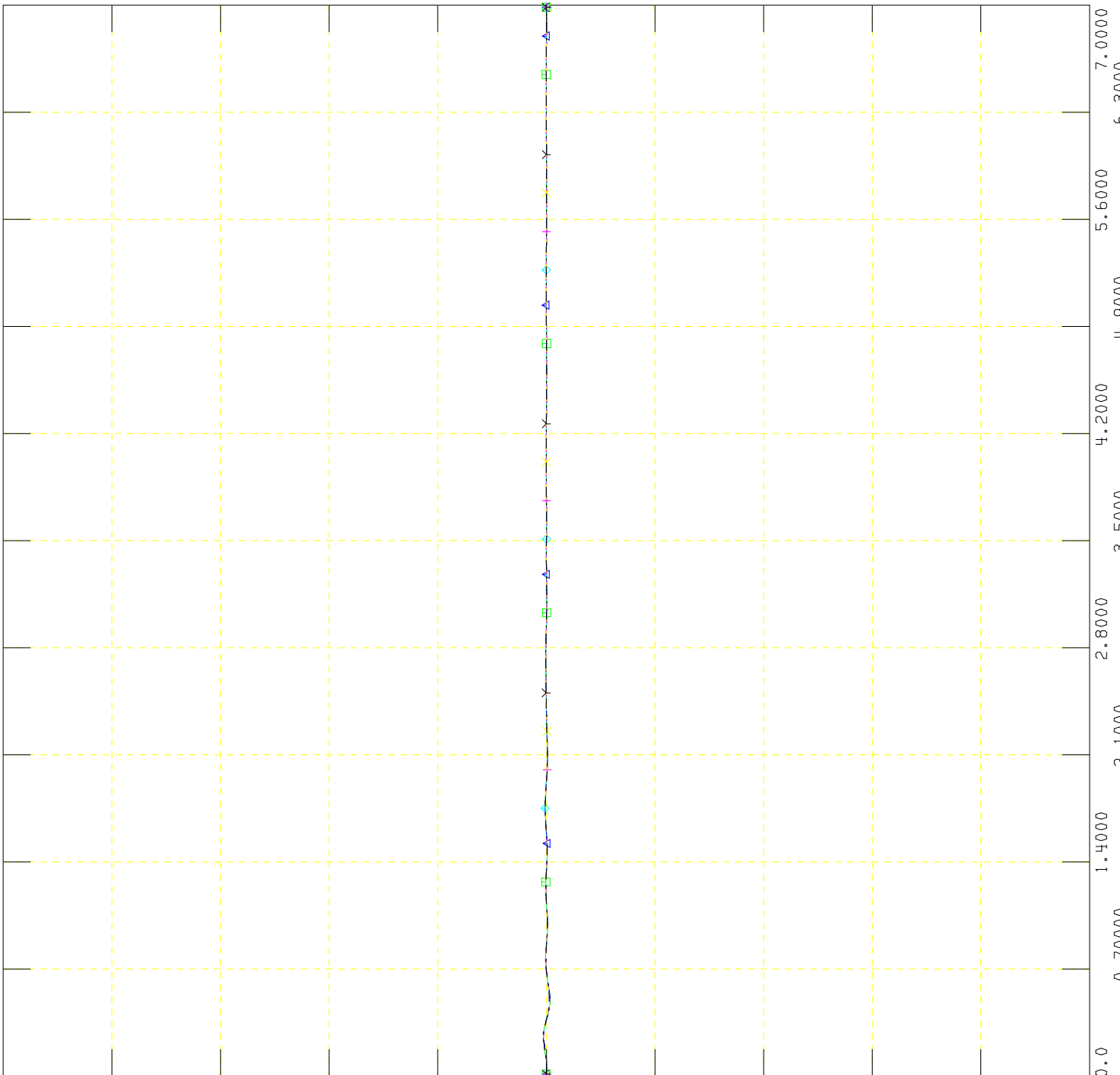




LC  
 LC-GENCT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



FRI, JUN 13 2008 14:59  
 MACHINE FREQUENCIES - 03

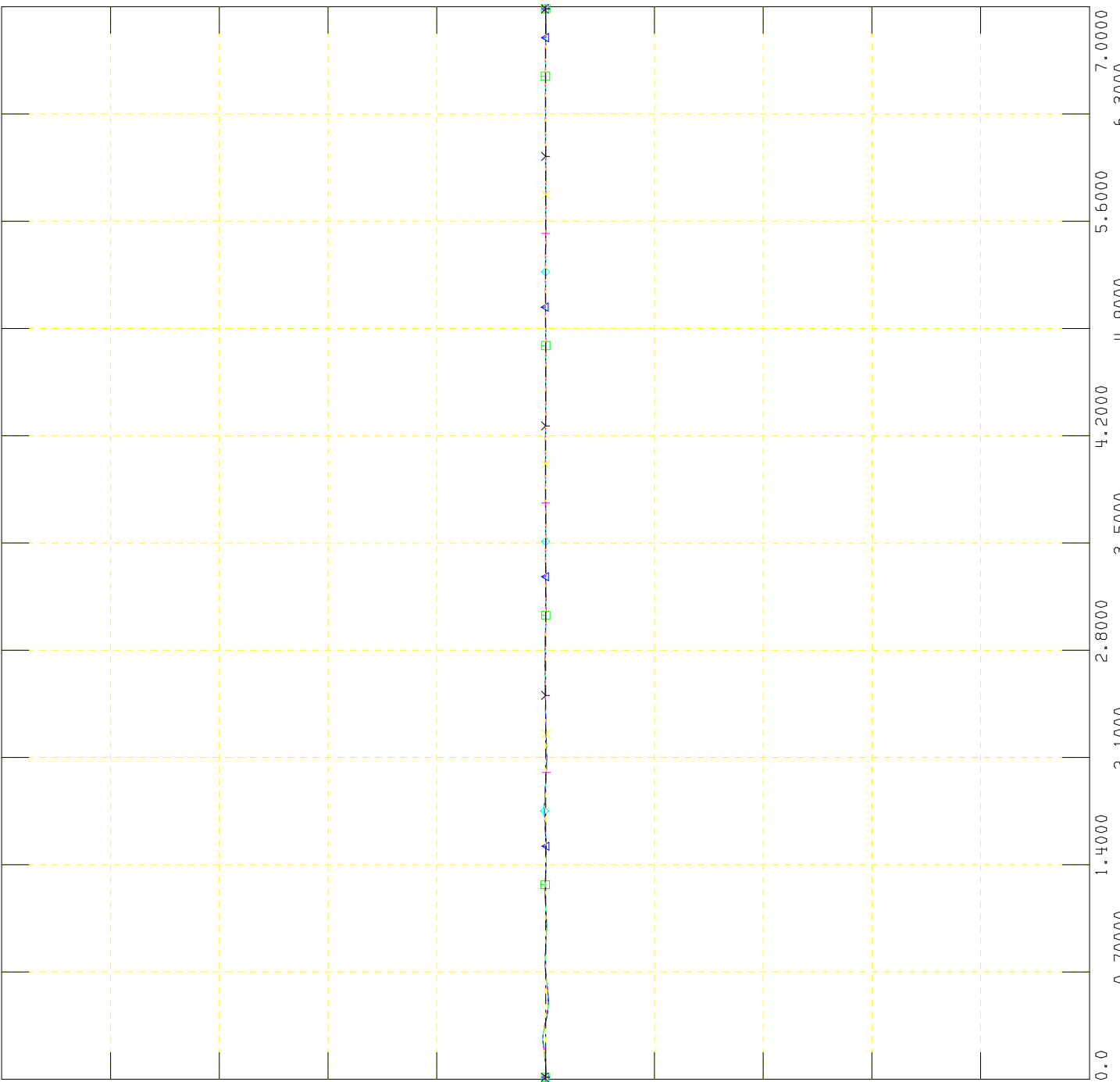
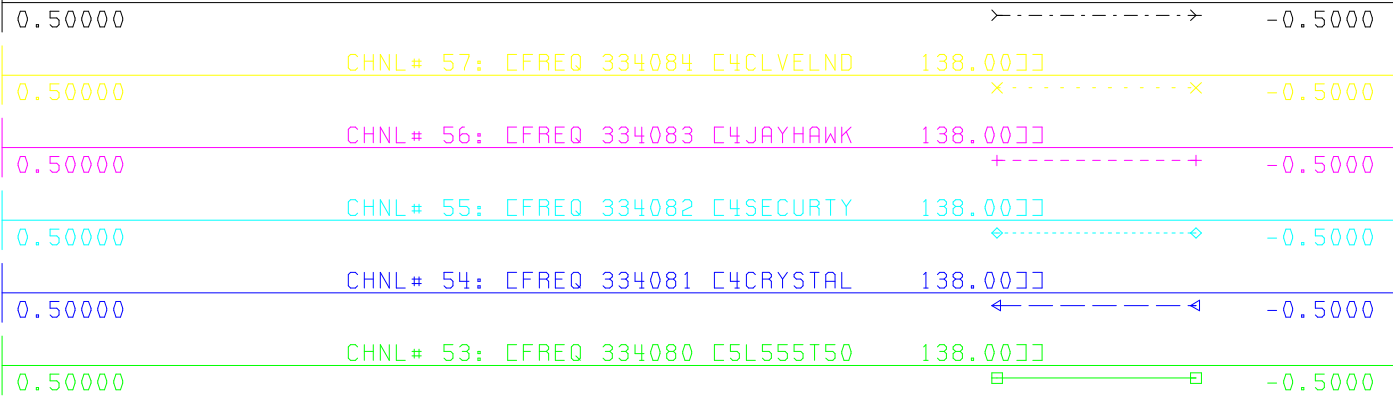
TIME (SECONDS)



LC  
 LC-GENCT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



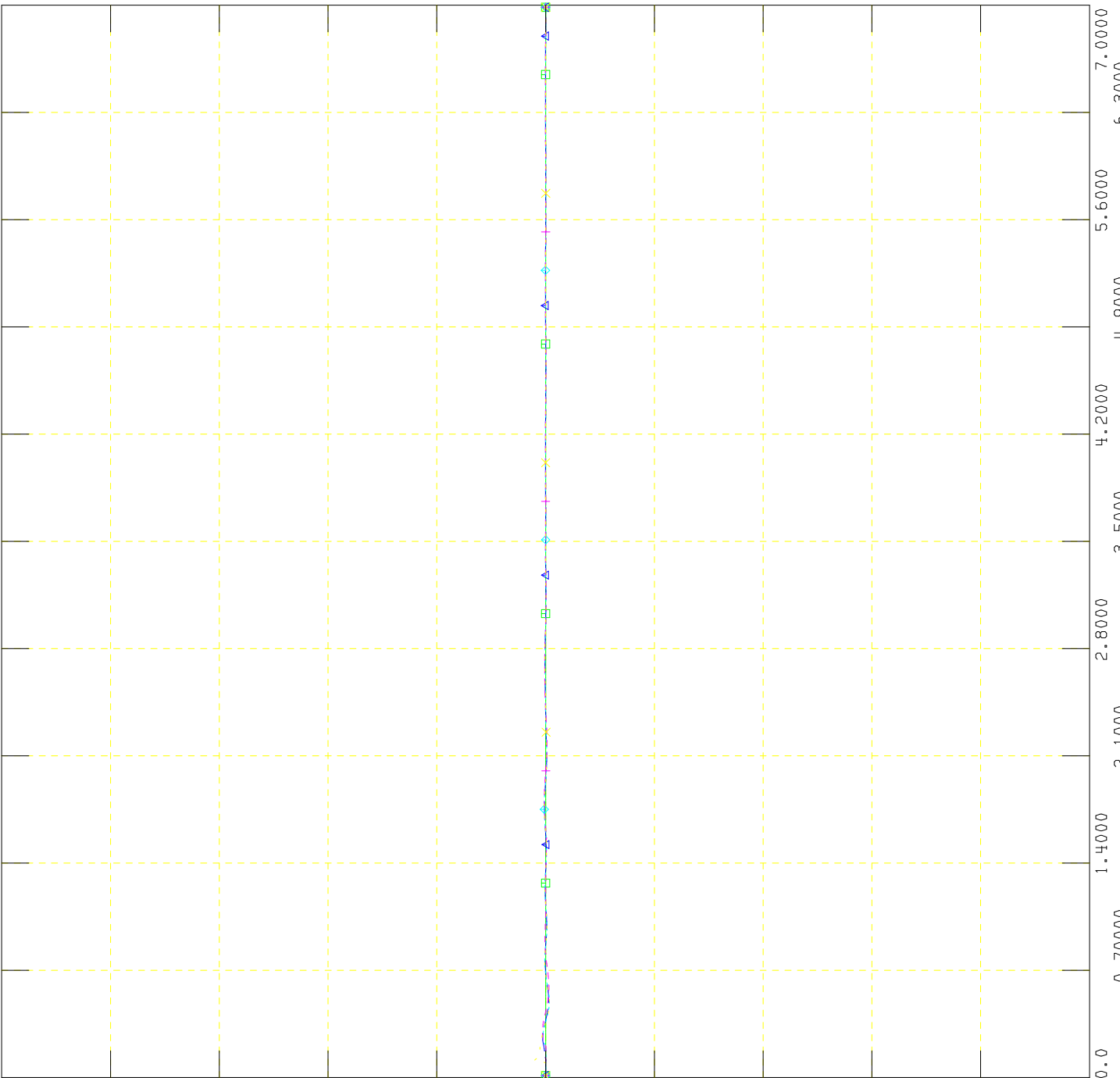
FRI, JUN 13 2008 14:59  
 MACHINE FREQUENCIES - 04



LC  
 LC-GENCT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

0.50000	CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	x-----x	-0.5000
0.50000	CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	+-----+	-0.5000
0.50000	CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	◇-----◇	-0.5000
0.50000	CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	←-----←	-0.5000
0.50000	CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	▣-----▣	-0.5000



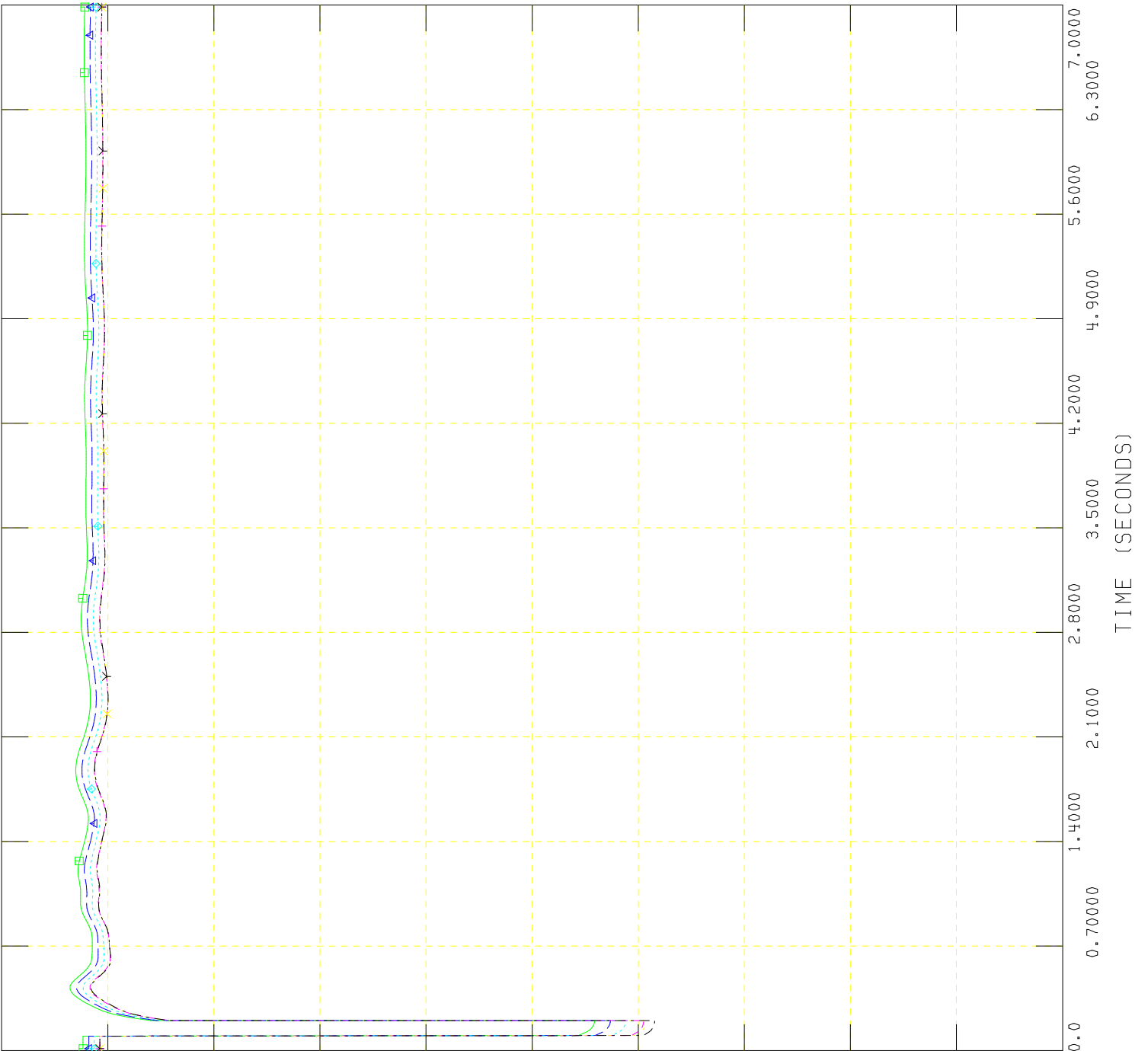
FRI, JUN 13 2008 14:59  
 MACHINE FREQUENCIES - 05



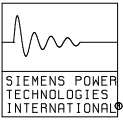
LC  
LC-GENCT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



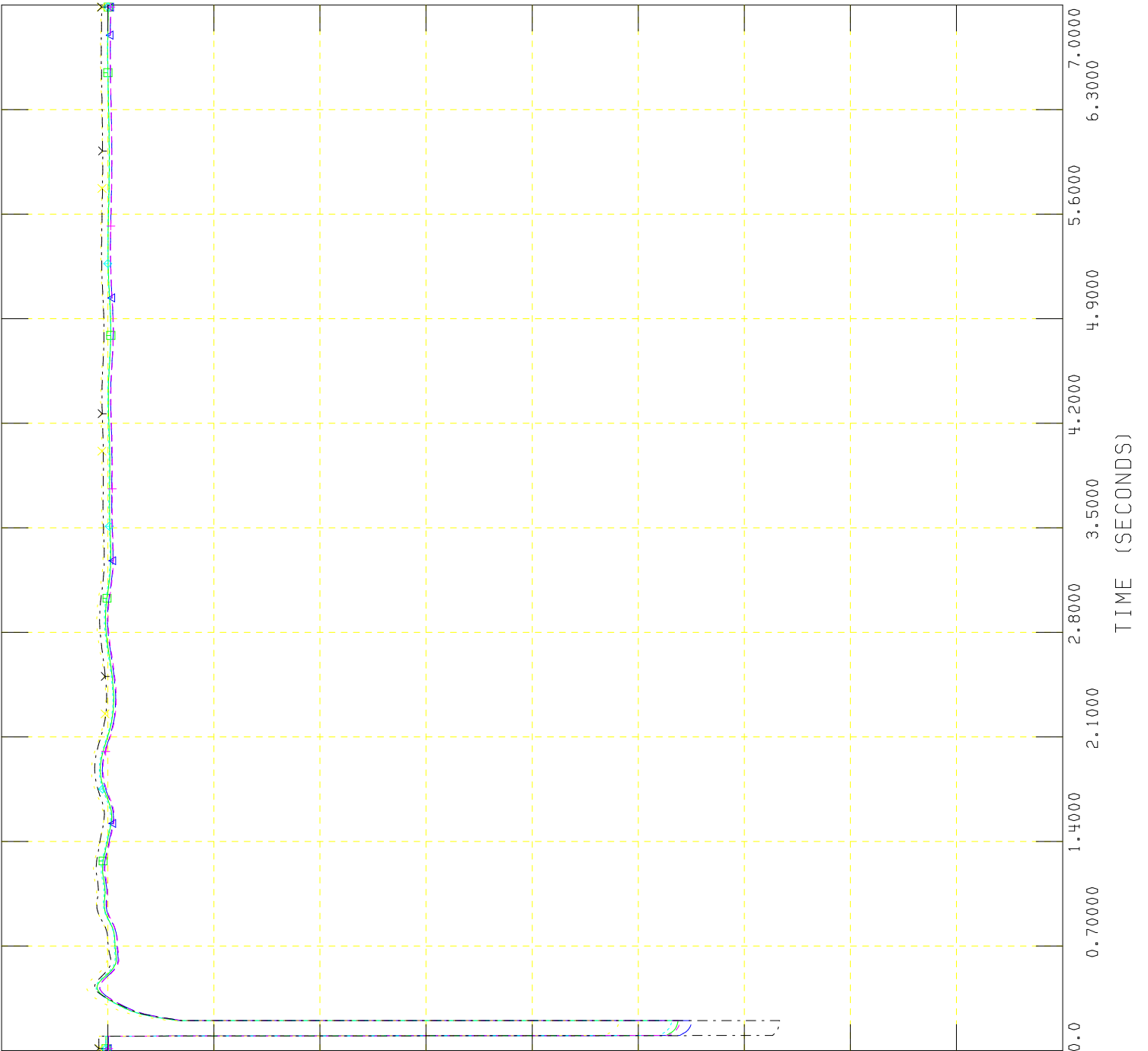
FRI, JUN 13 2008 14:59  
BUS VOLTAGES - 01



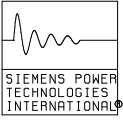
LC  
 LC-GENCT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



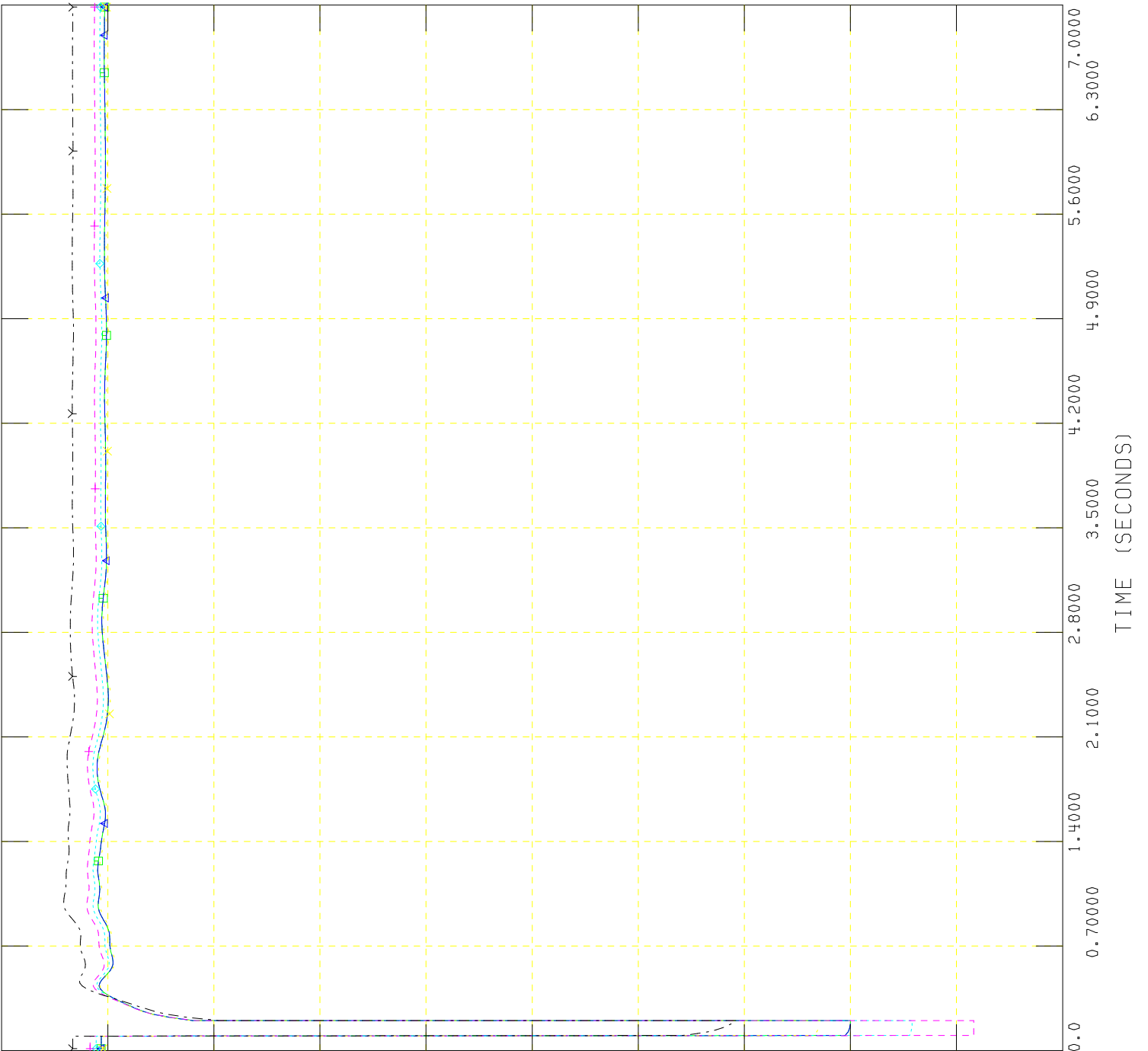
FRI, JUN 13 2008 14:59  
 BUS VOLTAGES - 02



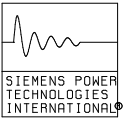
LC  
LC-GENCT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

Channel	Label	Value	Scale
CHNL# 81	[VOLT 334070 [G1LEWIS	22.000]]	-0.1000
CHNL# 80	[VOLT 334066 [4GEORGIA	138.00]]	-0.1000
CHNL# 79	[VOLT 334065 [4LACON	138.00]]	-0.1000
CHNL# 78	[VOLT 334064 [8LNG 413	138.00]]	-0.1000
CHNL# 77	[VOLT 334063 [4EVGRN*	138.00]]	-0.1000
CHNL# 76	[VOLT 334062 [4TEMCO	138.00]]	-0.1000



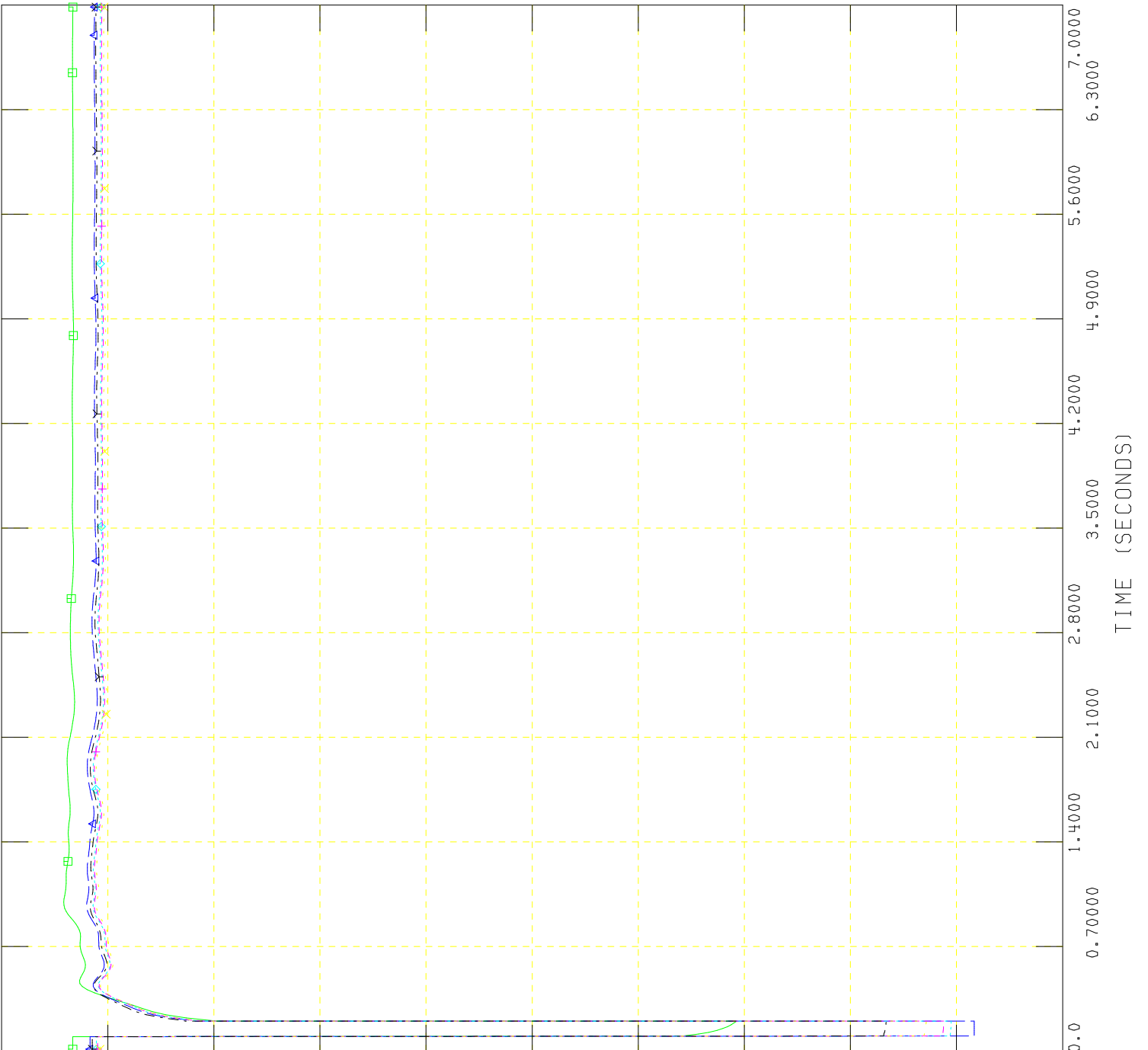
FRI, JUN 13 2008 14:59  
BUS VOLTAGES - 03



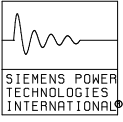
LC  
LC-GENCT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



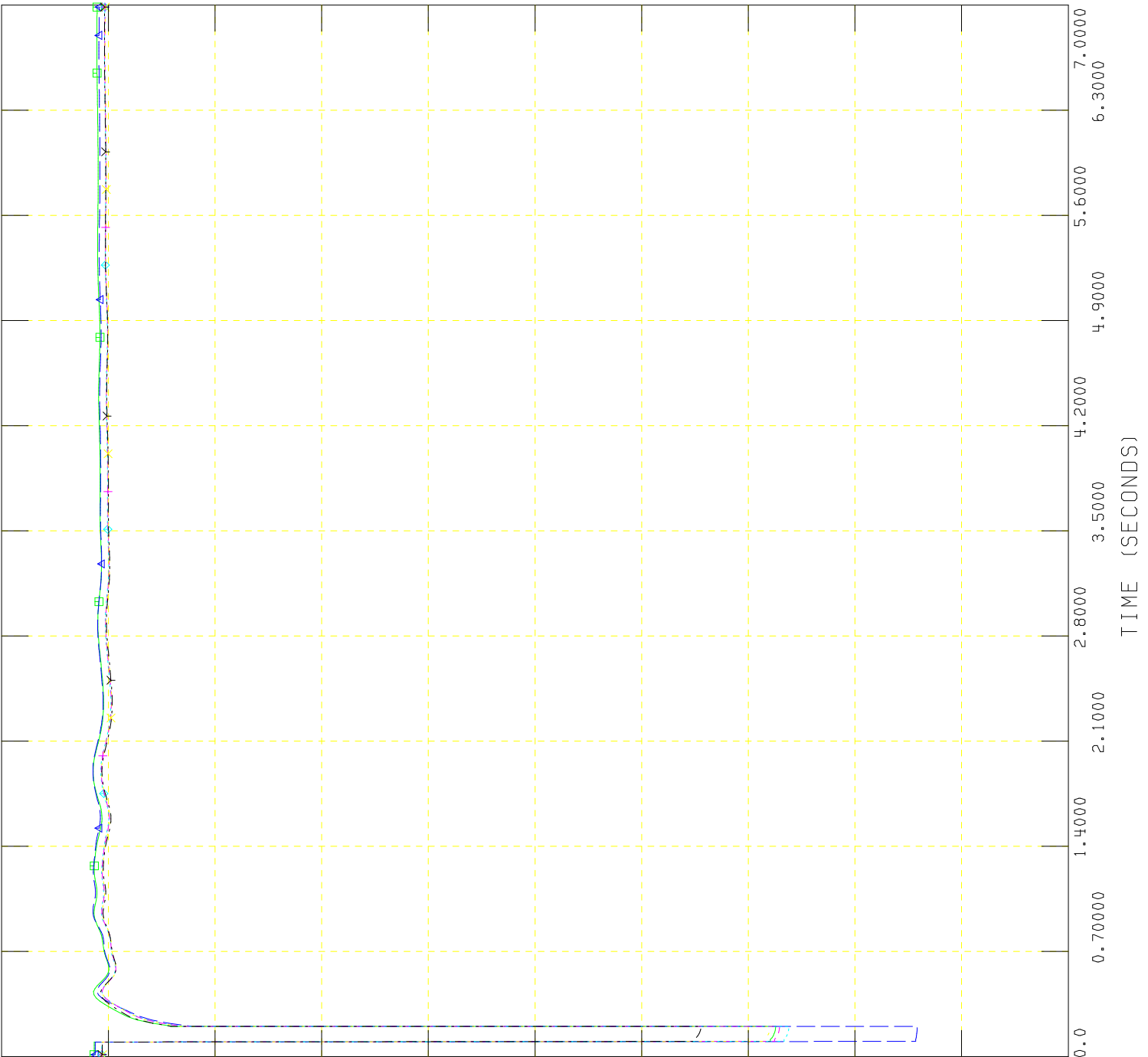
FRI, JUN 13 2008 14:59  
BUS VOLTAGES - 04



LC  
LC-GENCT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

Channel	Label	Value
CHNL# 93	[VOLT 334082 [4SECURTY	138.00]]
CHNL# 92	[VOLT 334081 [4CRYSTAL	138.00]]
CHNL# 91	[VOLT 334080 [5L555T50	138.00]]
CHNL# 90	[VOLT 334079 [4FWPIPE	138.00]]
CHNL# 89	[VOLT 334078 [4SHEAWIL	138.00]]
CHNL# 88	[VOLT 334077 [4PECHCK#	138.00]]



FRI, JUN 13 2008 14:59  
BUS VOLTAGES - 05

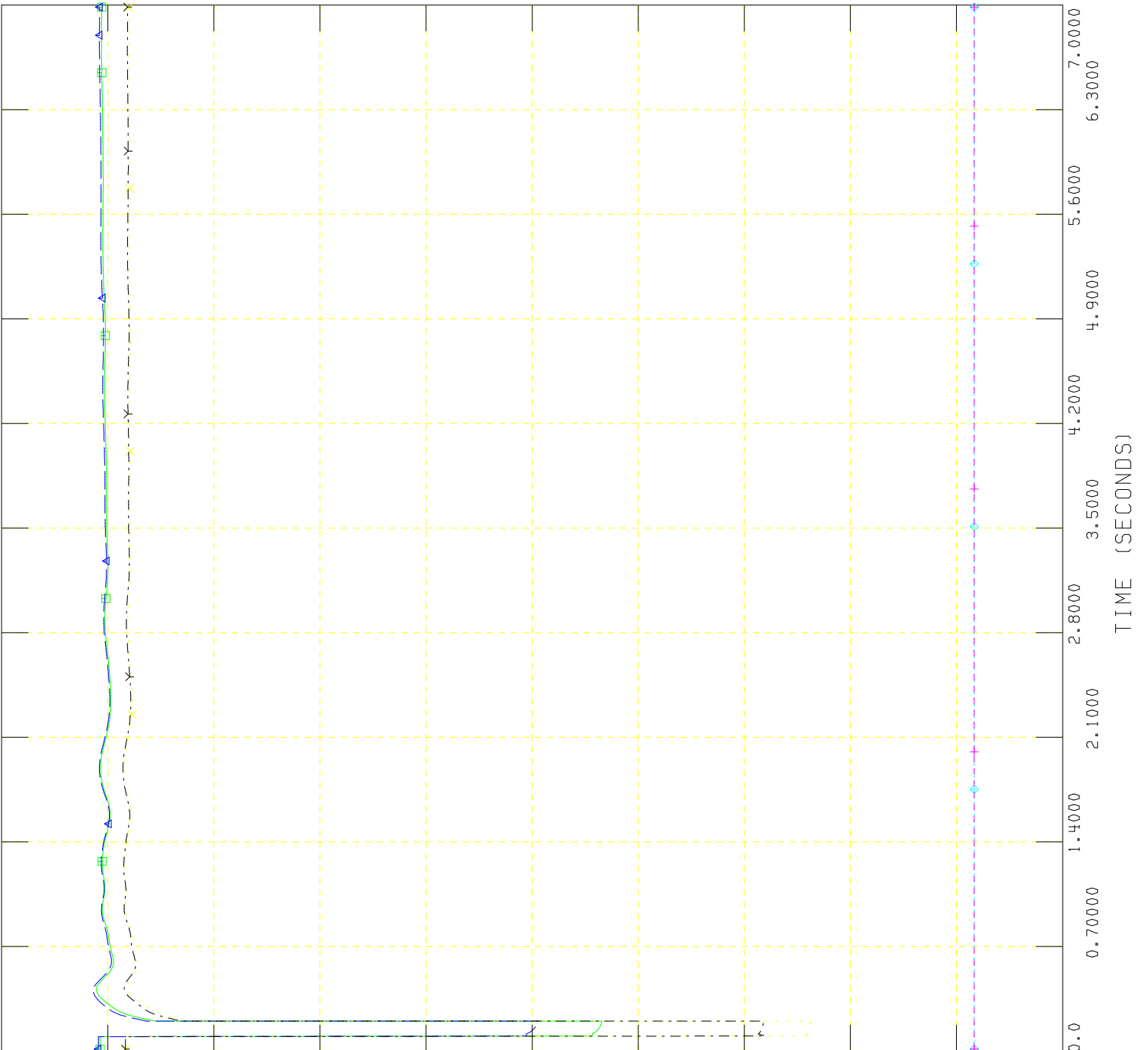




LC  
LC-GENCT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

Channel	Label	Value	Marker
CHNL# 99	[VOLT 334091 [4GOSLIN 138.00]]	138.00	→
CHNL# 98	[VOLT 334090 [4ALDEN 138.00]]	138.00	×
CHNL# 97	[VOLT 334086 [6CONROE 230.00]]	230.00	+
CHNL# 96	[VOLT 334085 [6LEWISCREEK 230.00]]	230.00	◇
CHNL# 95	[VOLT 334084 [4CLVELND 138.00]]	138.00	←
CHNL# 94	[VOLT 334083 [4JAYHAWK 138.00]]	138.00	■



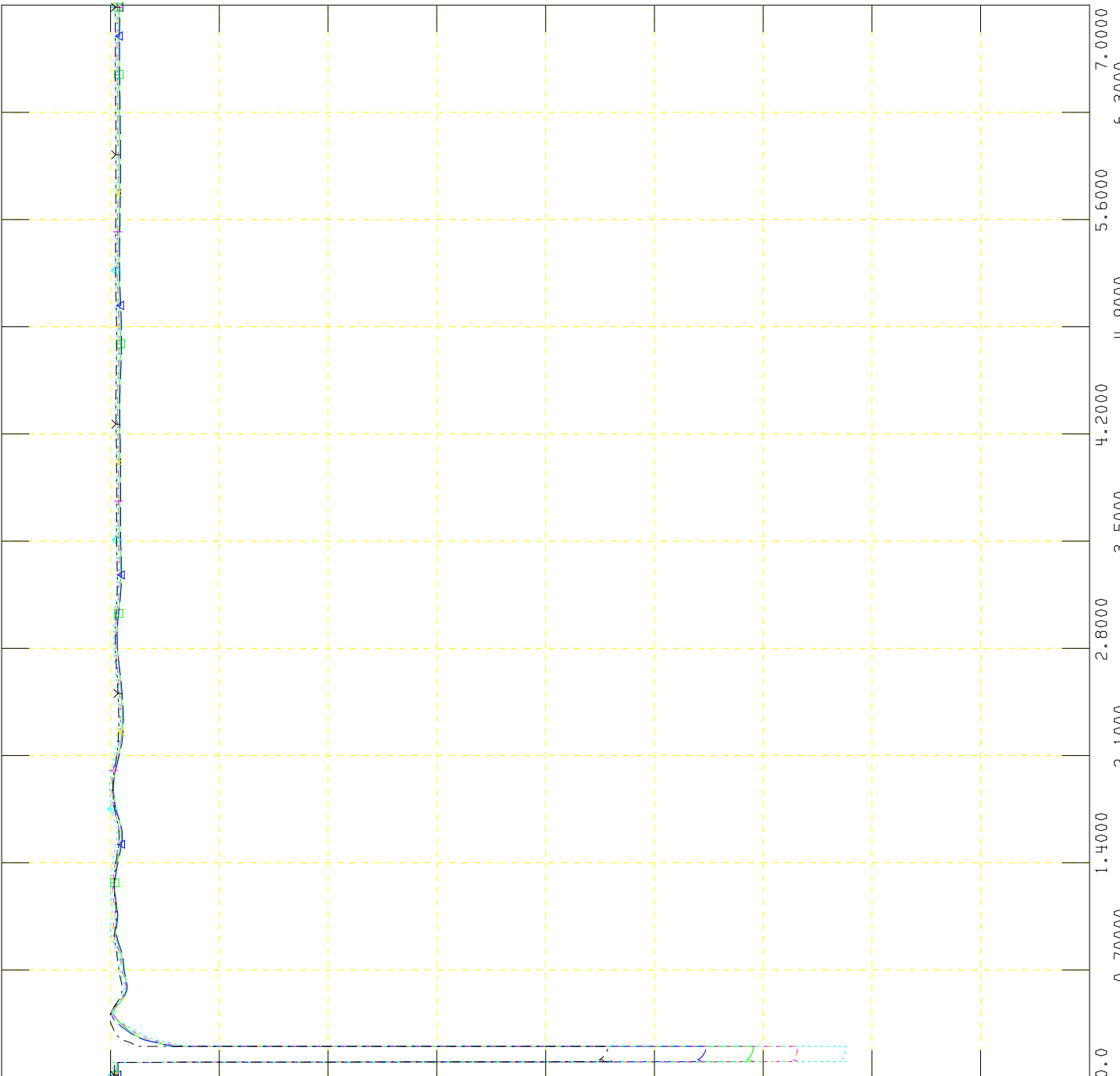
FRI, JUN 13 2008 14:59  
BUS VOLTAGES - 06



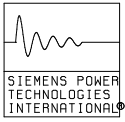
LC  
 LC-GENCT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



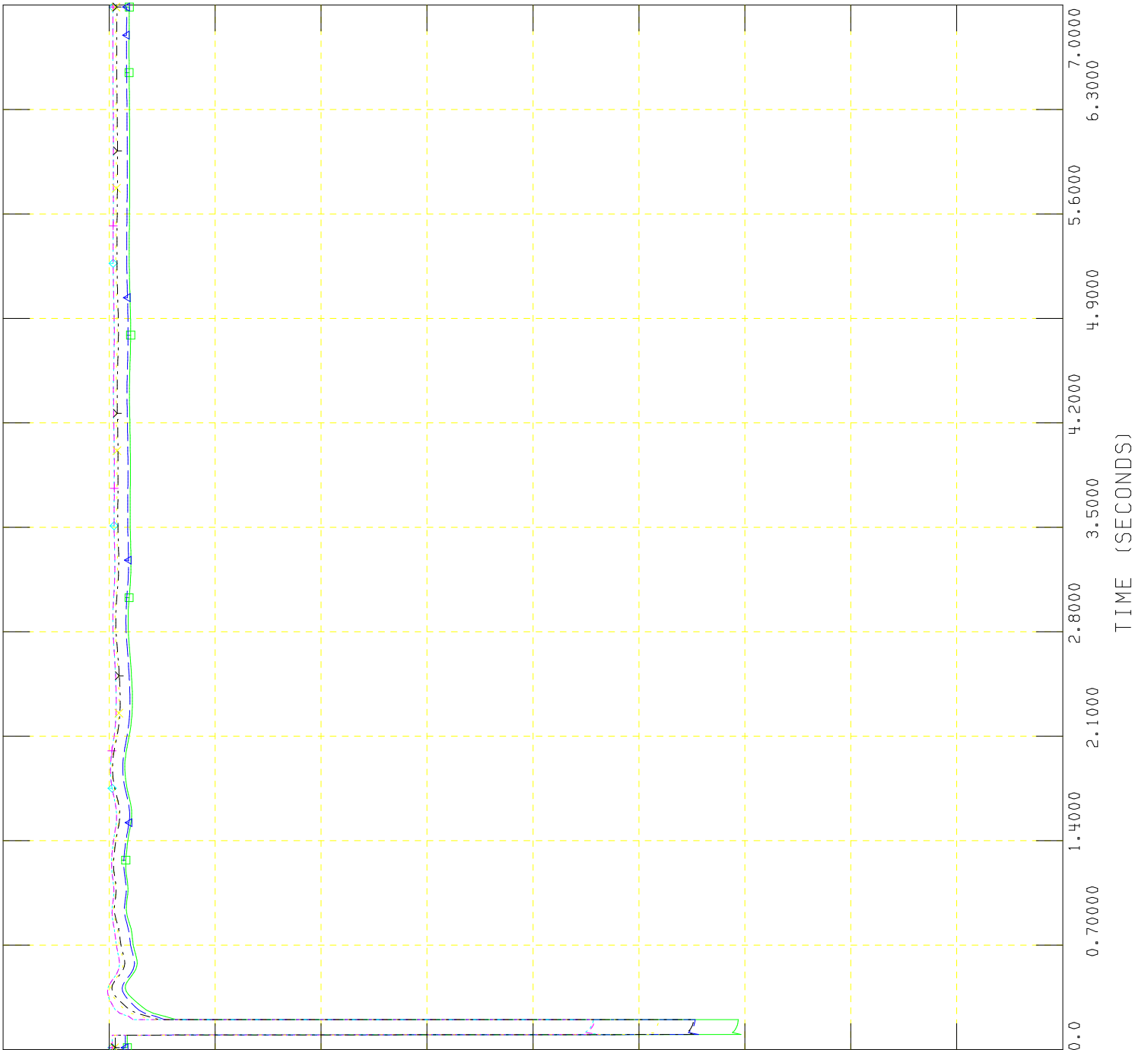
FRI, JUN 13 2008 14:59  
 BUS VOLTAGES - 08



LC  
 LC-GENCT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



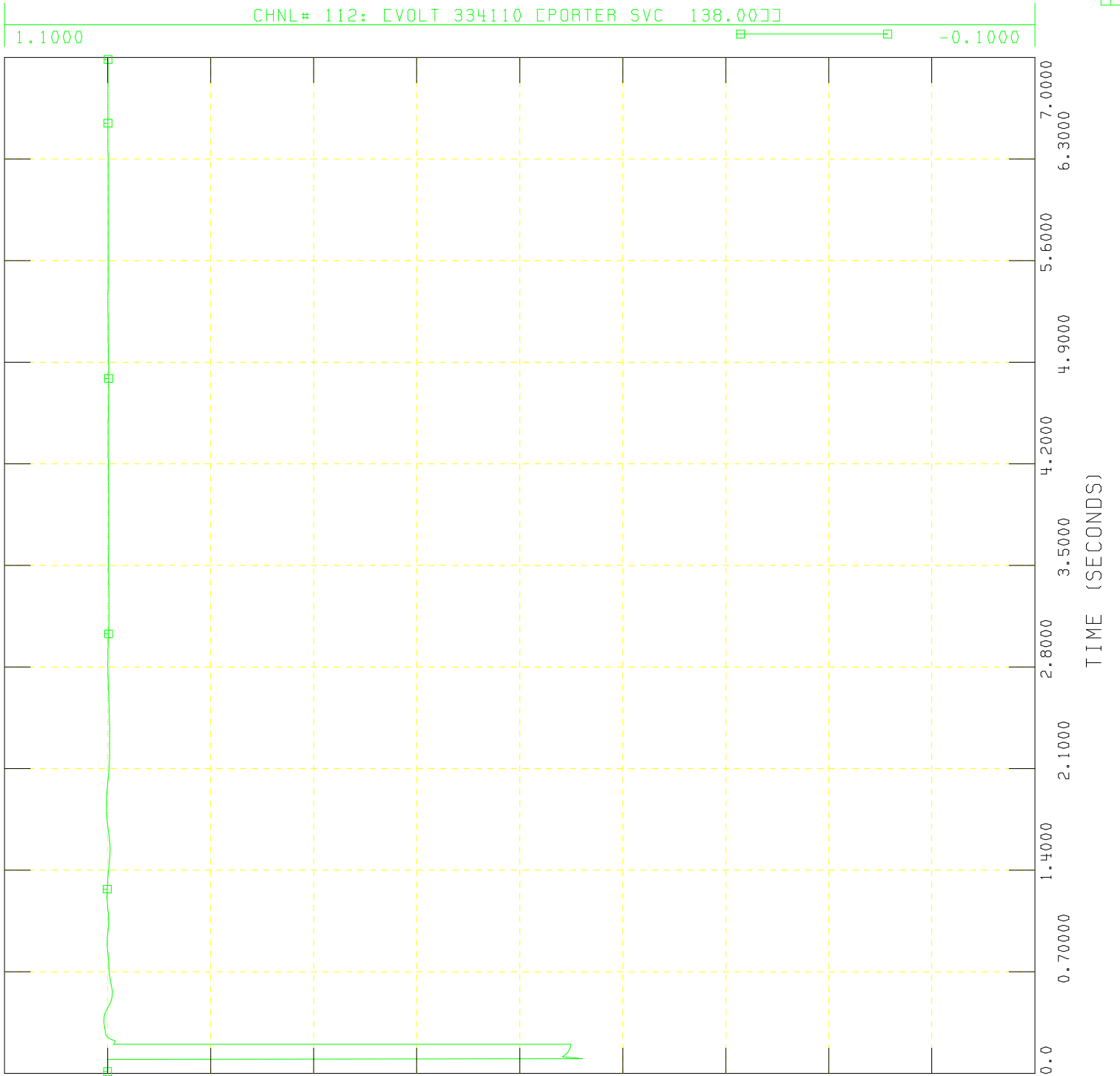
FRI, JUN 13 2008 14:59  
 BUS VOLTAGES - 07



LC  
LC-GENCT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT1-3.out

FRI, JUN 13 2008 14:59  
BUS VOLTAGES - 09



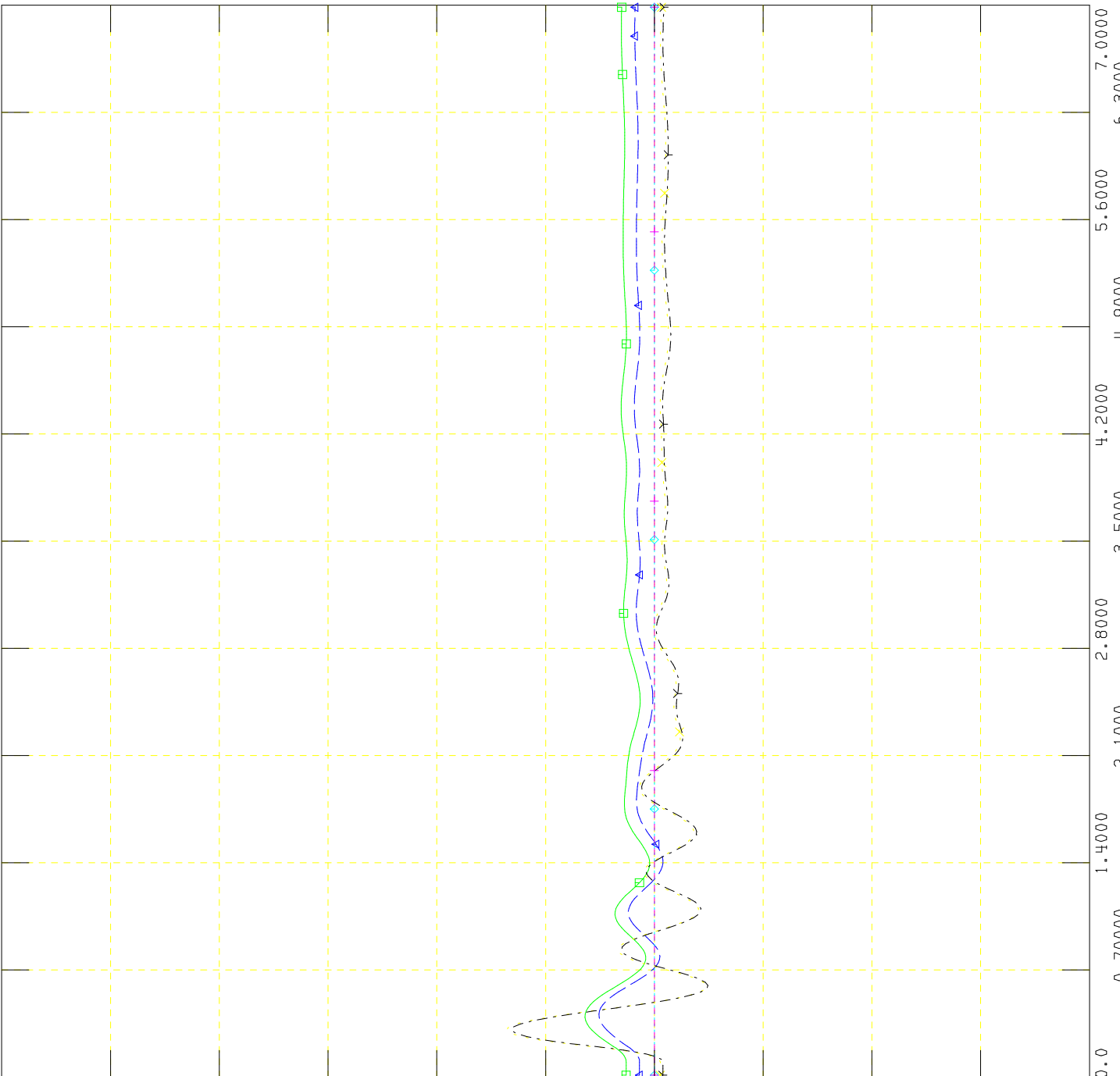
**FAULT G2**  
**Lewis Creek 138 kV (Drop CT2)**  
**Normal Clearing Times**



LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

Channel	Label	Value
CHNL# 6	[ANGL BUS 334071 MACH '1 ']	-100.0
CHNL# 5	[ANGL BUS 334070 MACH '1 ']	-100.0
CHNL# 4	[ANGL BUS 334033 MACH '1 ']	-100.0
CHNL# 3	[ANGL BUS 334032 MACH '1 ']	-100.0
CHNL# 2	[ANGL BUS 334031 MACH '1 ']	-100.0
CHNL# 1	[ANGL BUS 334030 MACH '1 ']	-100.0



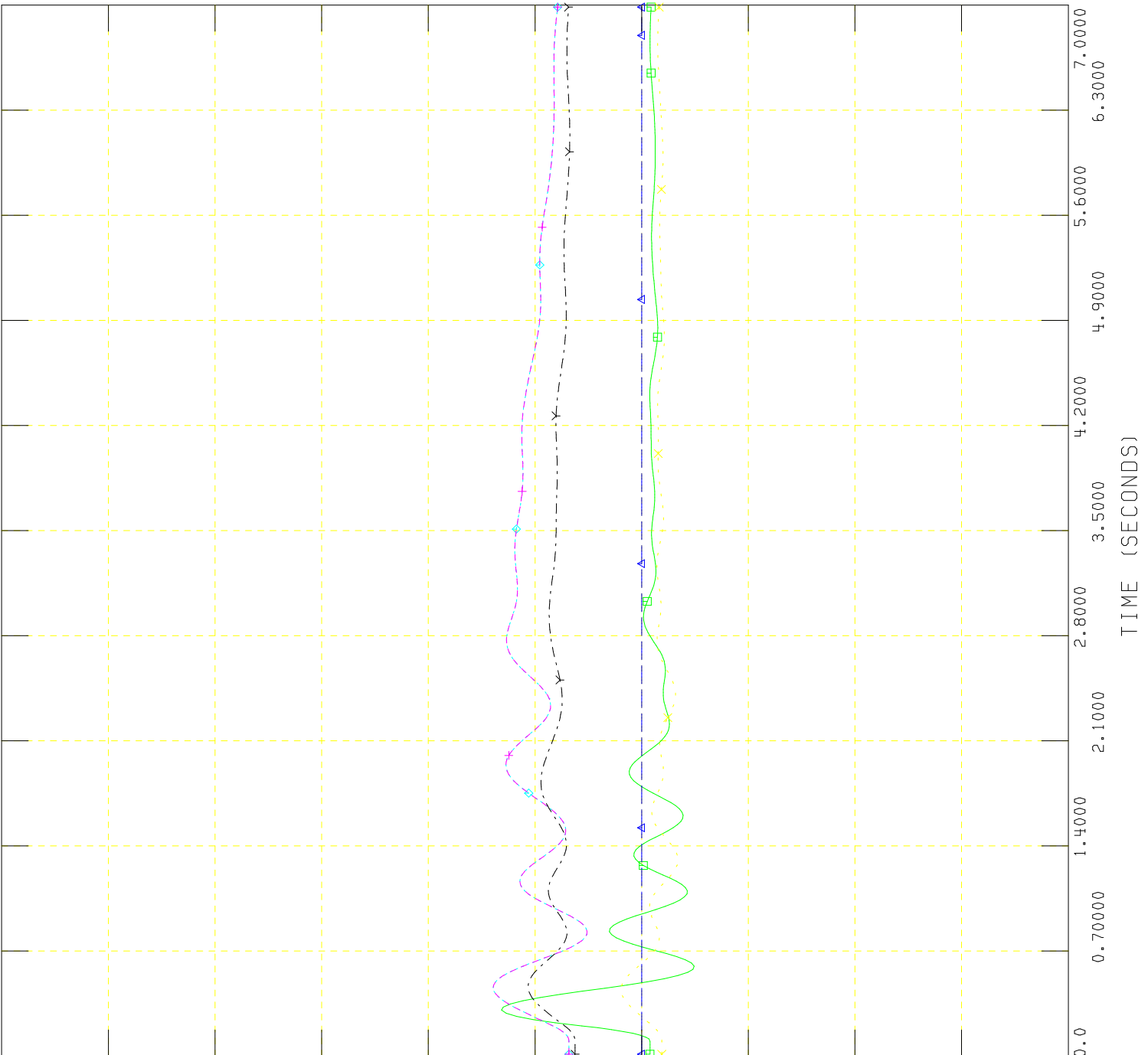
FRI, JUN 13 2008 15:03  
MACHINE ANGLES - 01



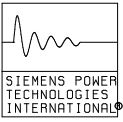
LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

Channel	Label	Value
11	CHANL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
10	CHANL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
9	CHANL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
8	CHANL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
7	CHANL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
6	CHANL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

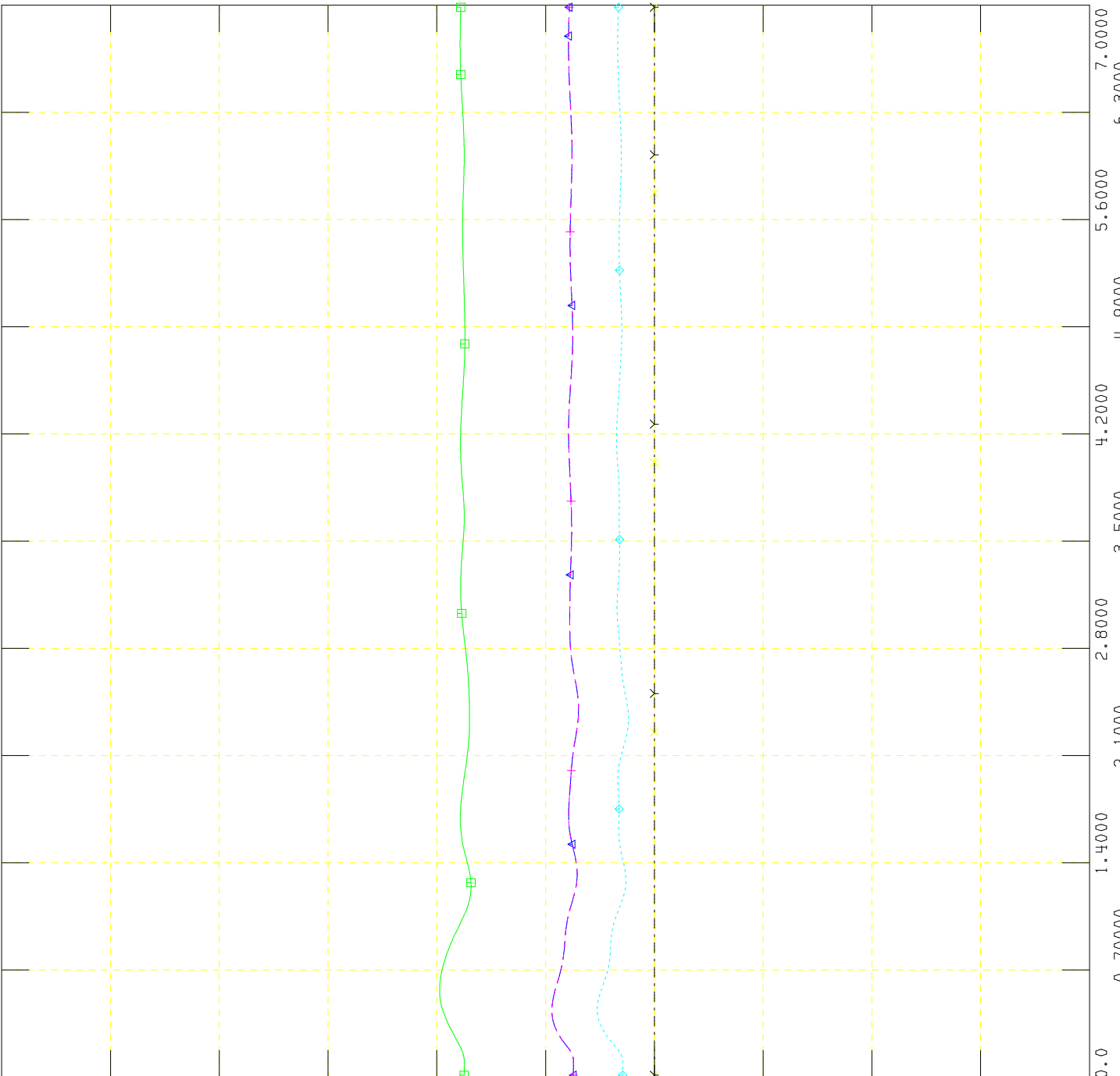
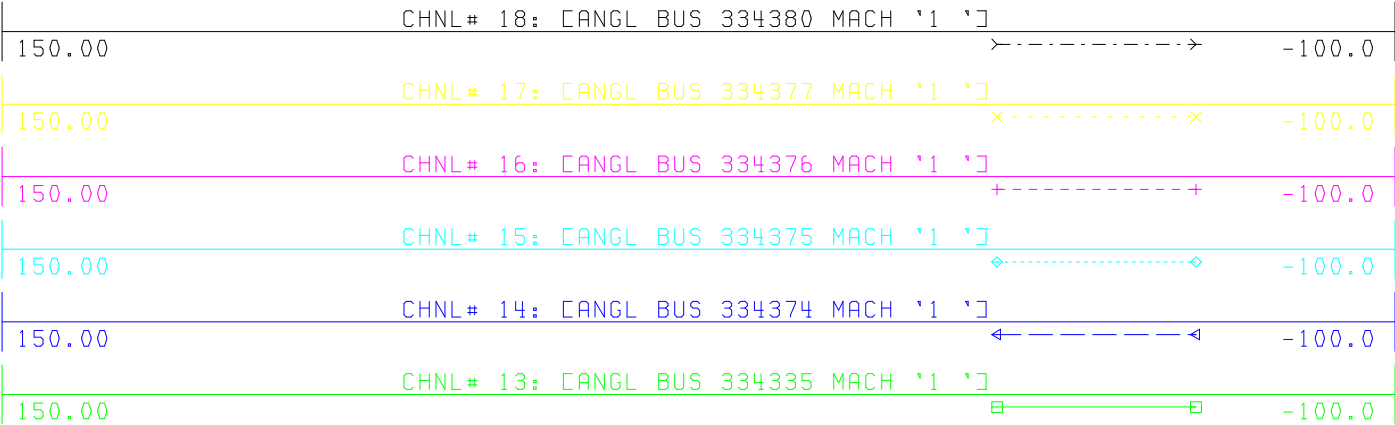


FRI, JUN 13 2008 15:03  
MACHINE ANGLES - 02



LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out



FRI, JUN 13 2008 15:03  
MACHINE ANGLES - 03

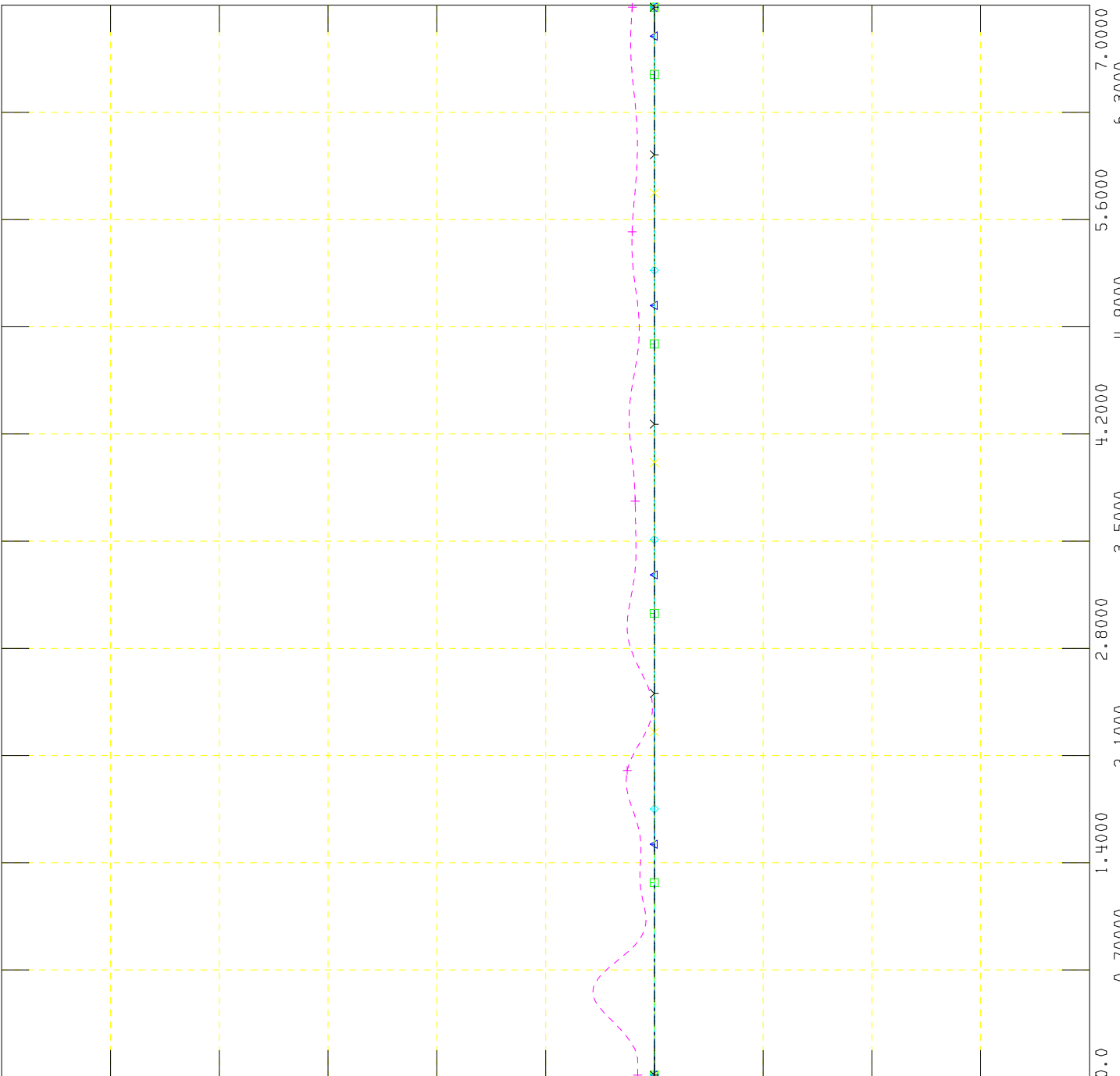




LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



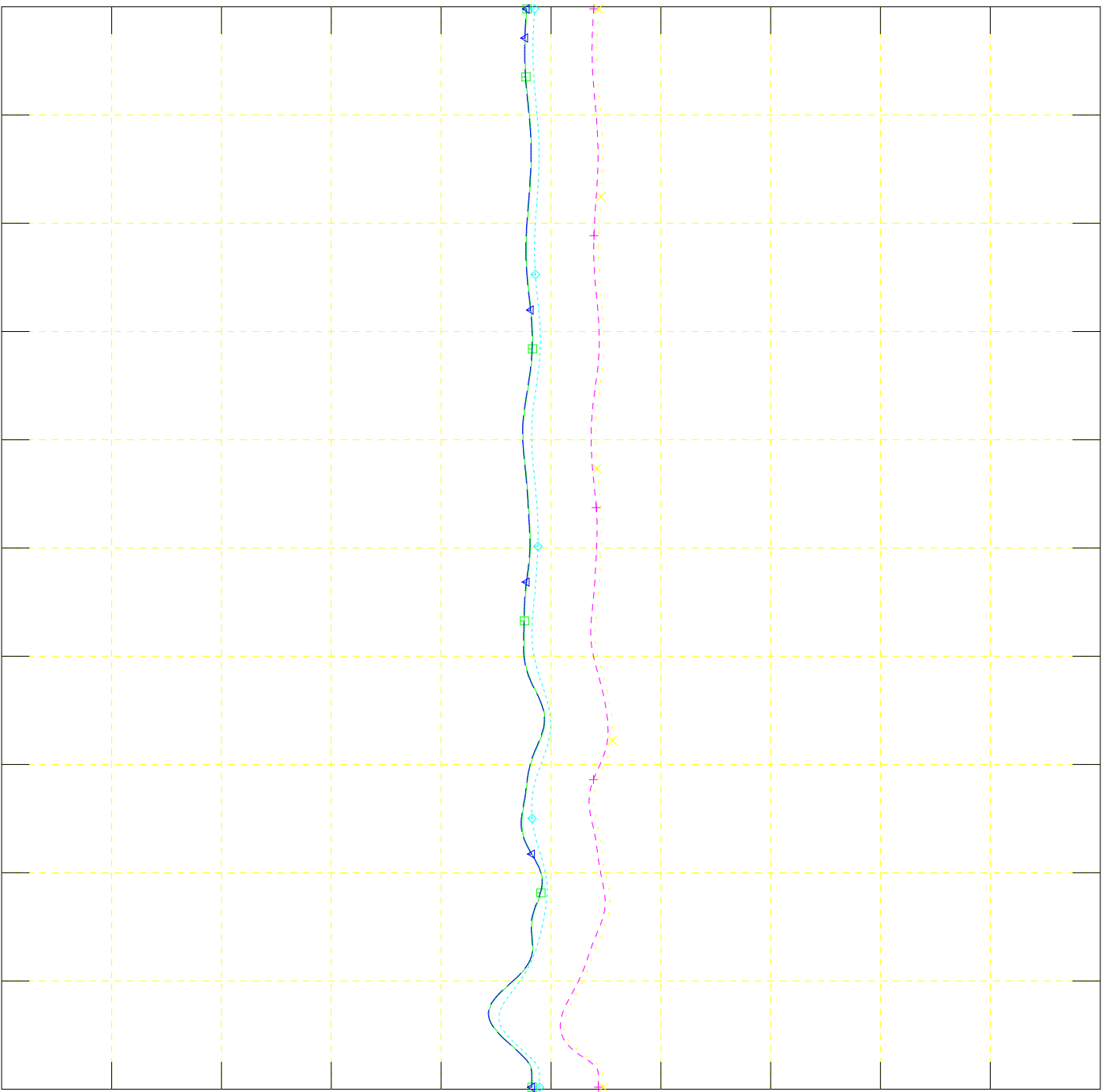
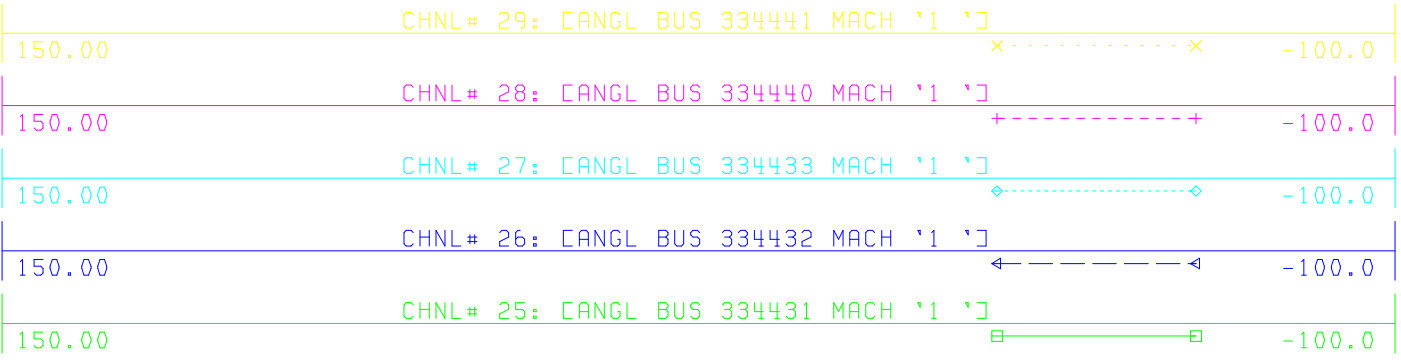
FRI, JUN 13 2008 15:04  
MACHINE ANGLES - 04

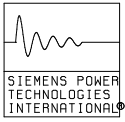


LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

FRI, JUN 13 2008 15:04  
MACHINE ANGLES - 05

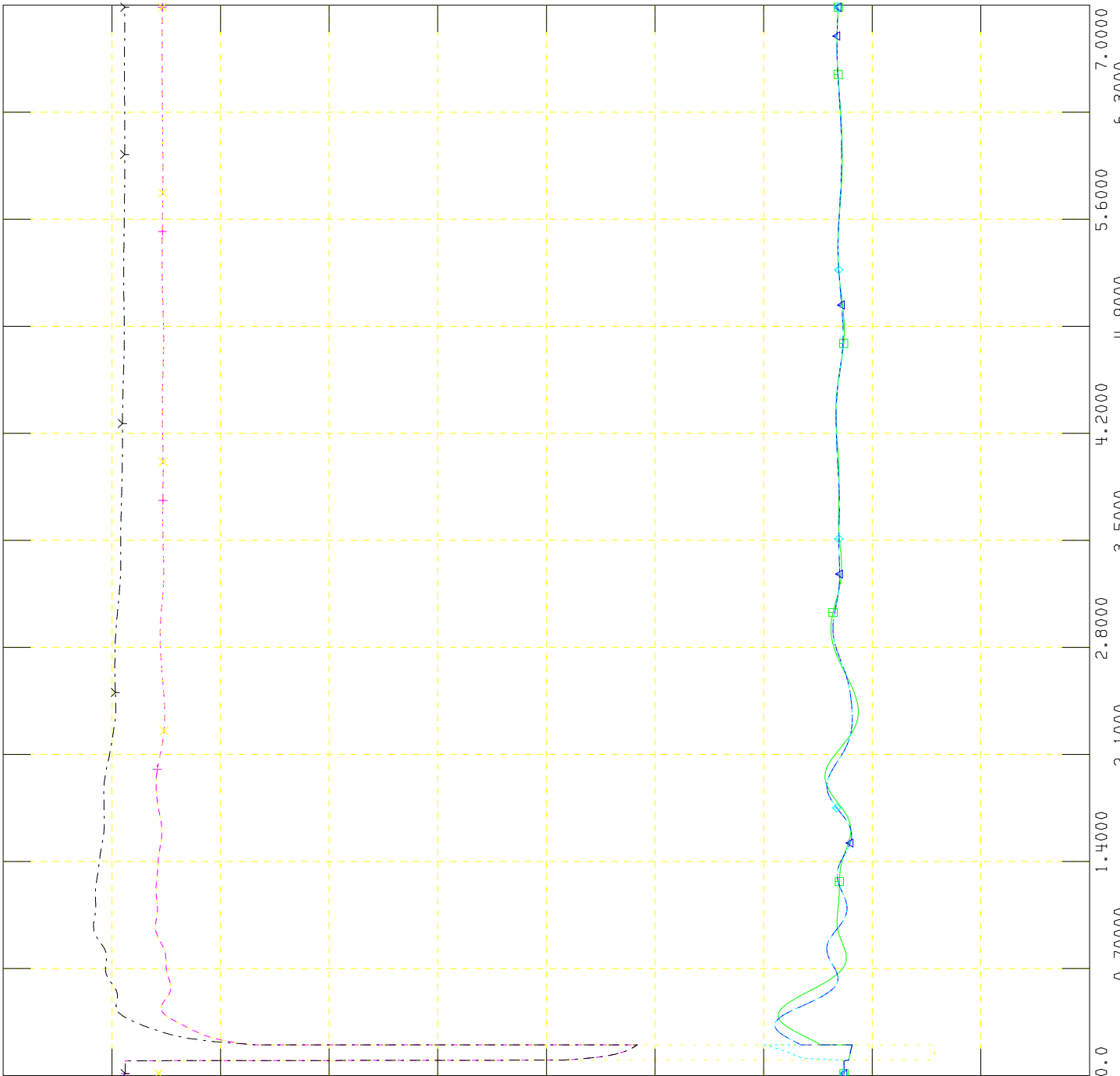




LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



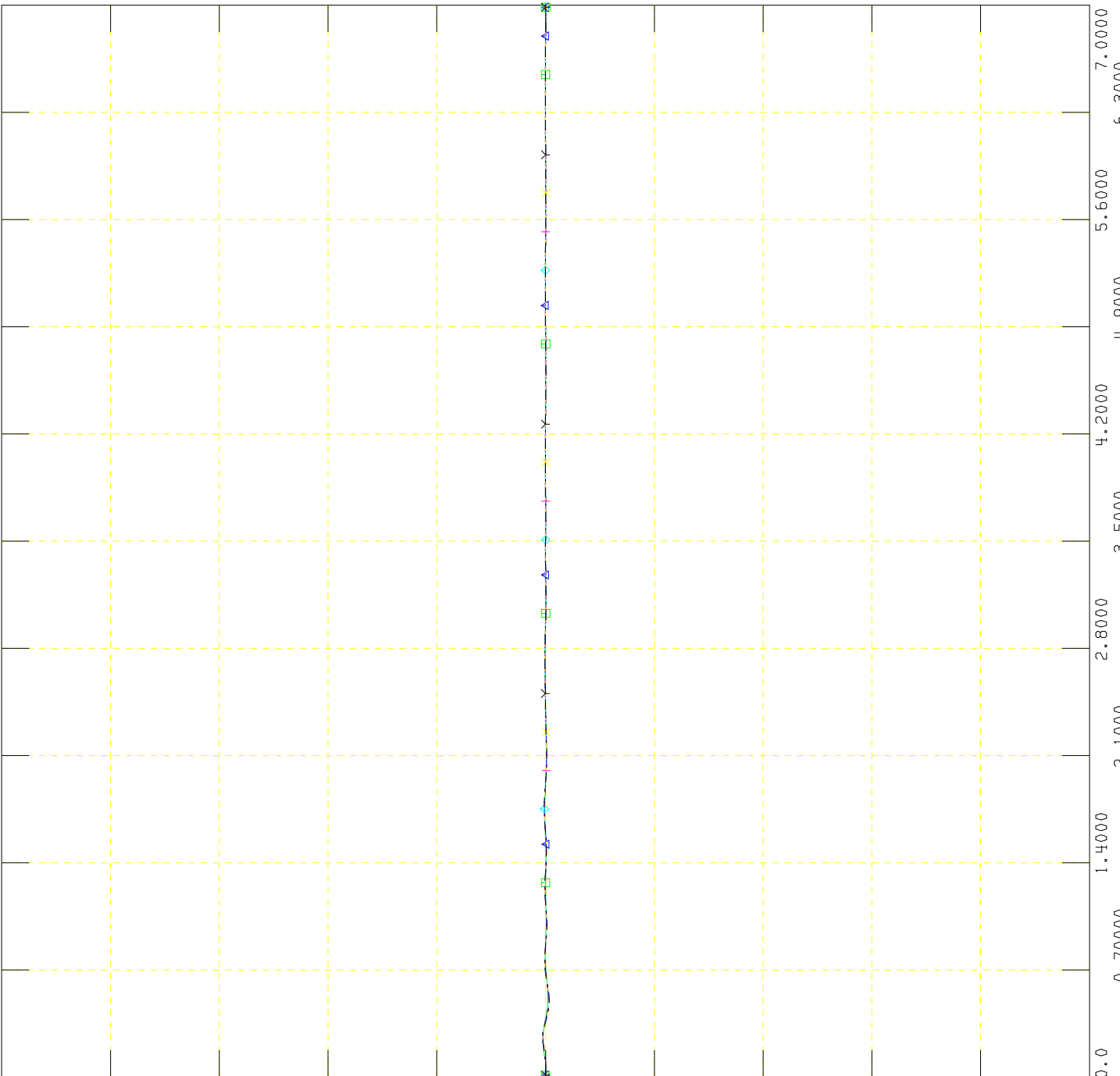
FRI, JUN 13 2008 15:04  
ANG & VOLT - PID-211 GENS



LC  
 LC-GENCT2  
 CLEAR LOCAL AND REMOVE IN 4CYC

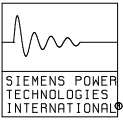
FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

0.50000	CHNL# 41: [FREQ 334065 [4LACON 138.00]]	-0.50000
0.50000	CHNL# 40: [FREQ 334064 [8LNG 413 138.00]]	-0.50000
0.50000	CHNL# 39: [FREQ 334063 [4EVGRN* 138.00]]	-0.50000
0.50000	CHNL# 38: [FREQ 334062 [4TEMCO 138.00]]	-0.50000
0.50000	CHNL# 37: [FREQ 334061 [4GOREE 138.00]]	-0.50000
0.50000	CHNL# 36: [FREQ 334060 [4MT.ZION 138.00]]	-0.50000



FRI, JUN 13 2008 15:04  
 MACHINE FREQUENCIES - 01

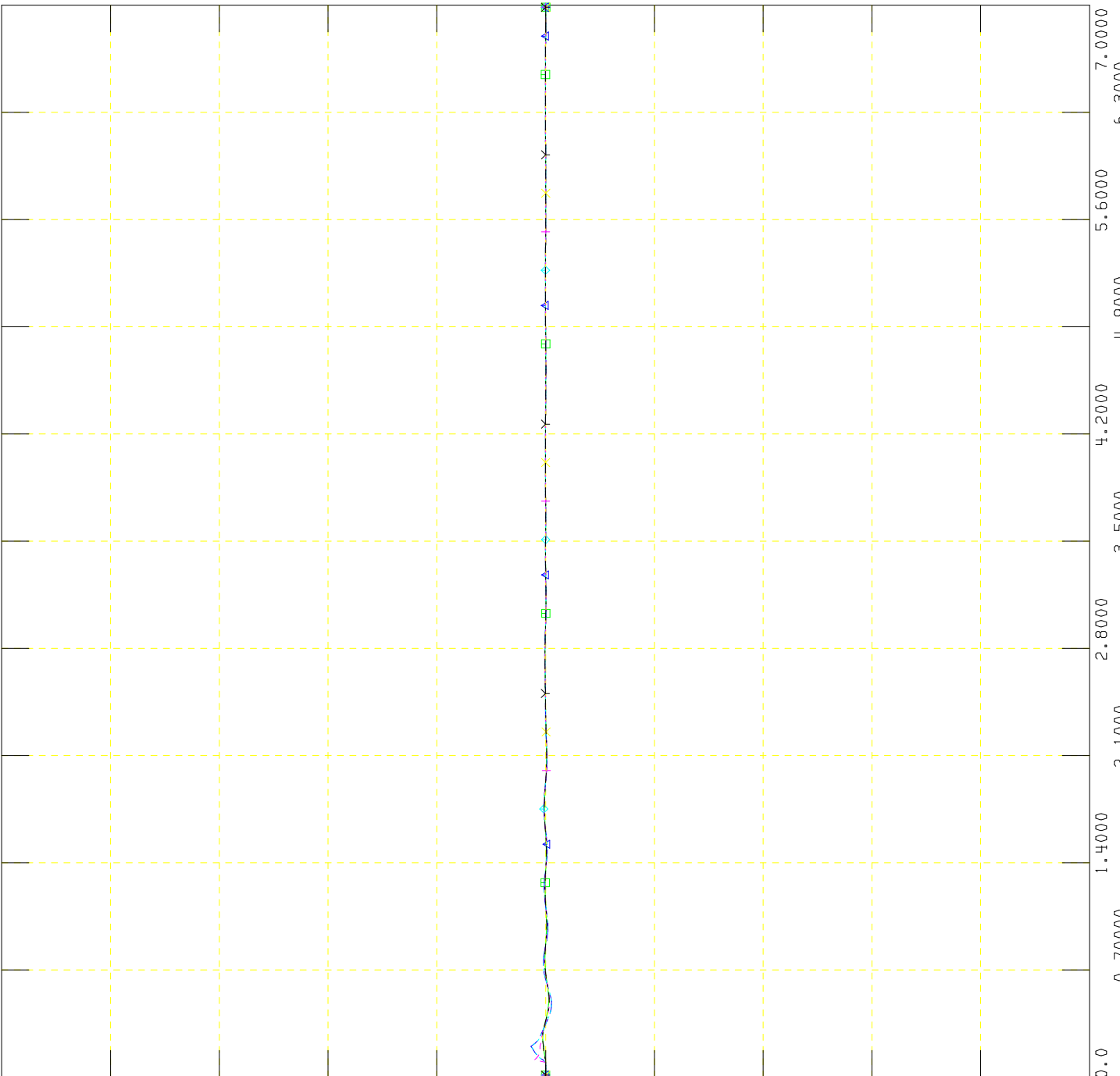
TIME (SECONDS)



LC  
 LC-GENCT2  
 CLEAR LOCAL AND REMOVE IN 4CYC

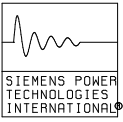
FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



FRI, JUN 13 2008 15:04  
 MACHINE FREQUENCIES - 02

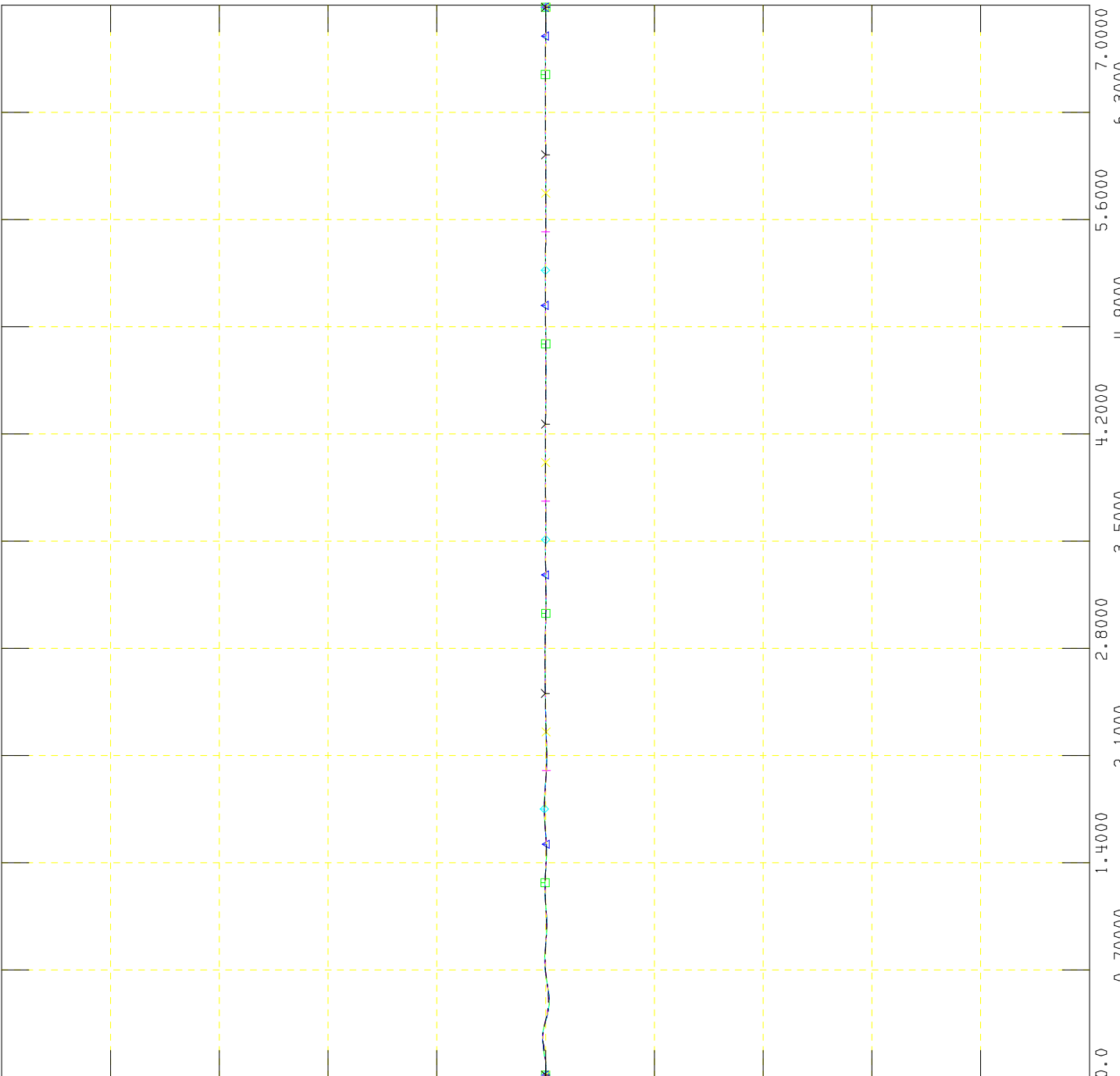
TIME (SECONDS)



LC  
 LC-GENCT2  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



FRI, JUN 13 2008 15:04  
 MACHINE FREQUENCIES - 03



LC  
 LC-GENCT2  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]

0.50000 -0.50000

CHNL# 57: [FREQ 334084 [4CLVELND 138.00]]

0.50000 -0.50000

CHNL# 56: [FREQ 334083 [4JAYHAWK 138.00]]

0.50000 -0.50000

CHNL# 55: [FREQ 334082 [4SECURTY 138.00]]

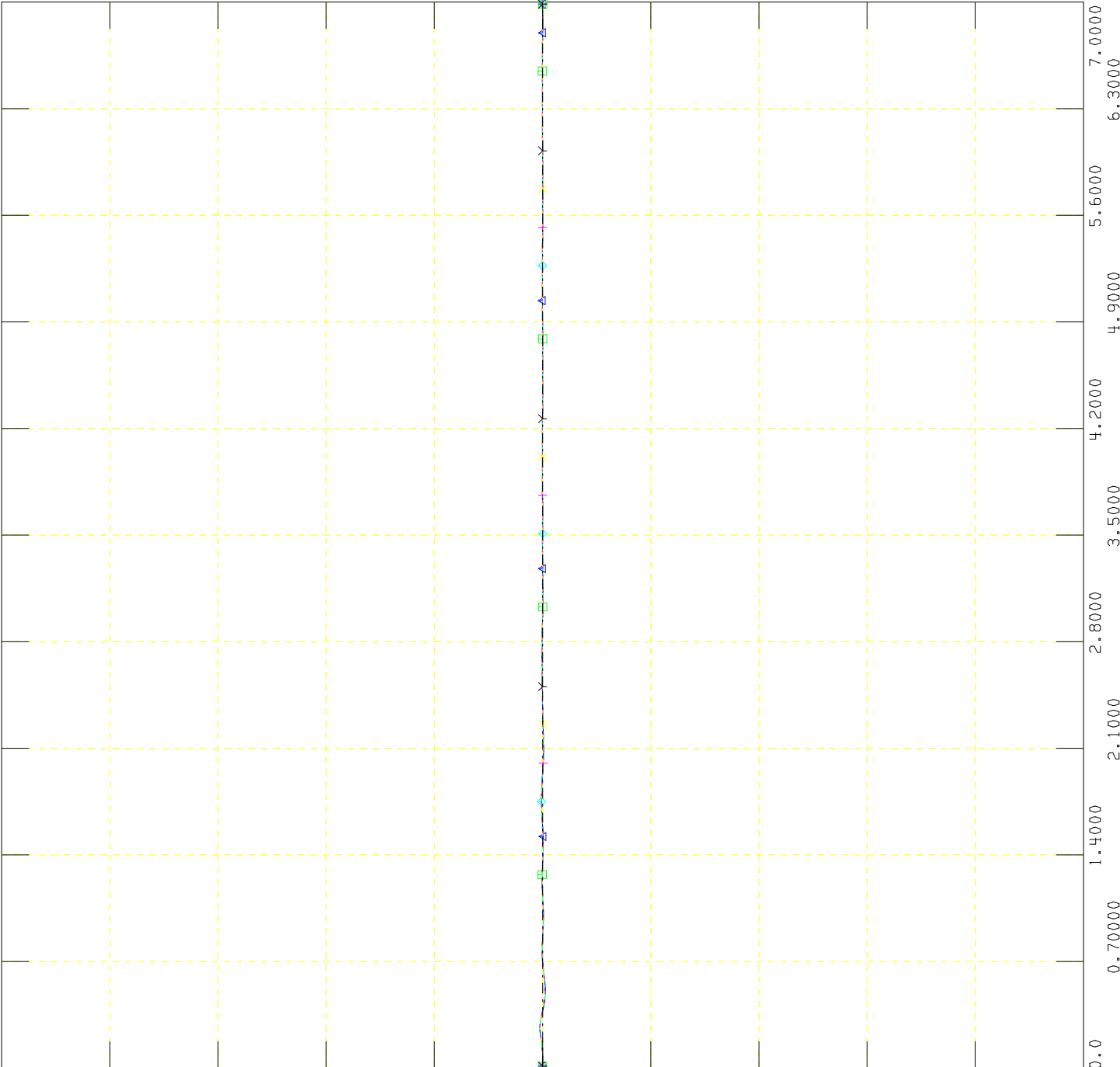
0.50000 -0.50000

CHNL# 54: [FREQ 334081 [4CRYSTAL 138.00]]

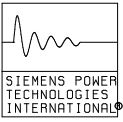
0.50000 -0.50000

CHNL# 53: [FREQ 334080 [5L555T50 138.00]]

0.50000 -0.50000



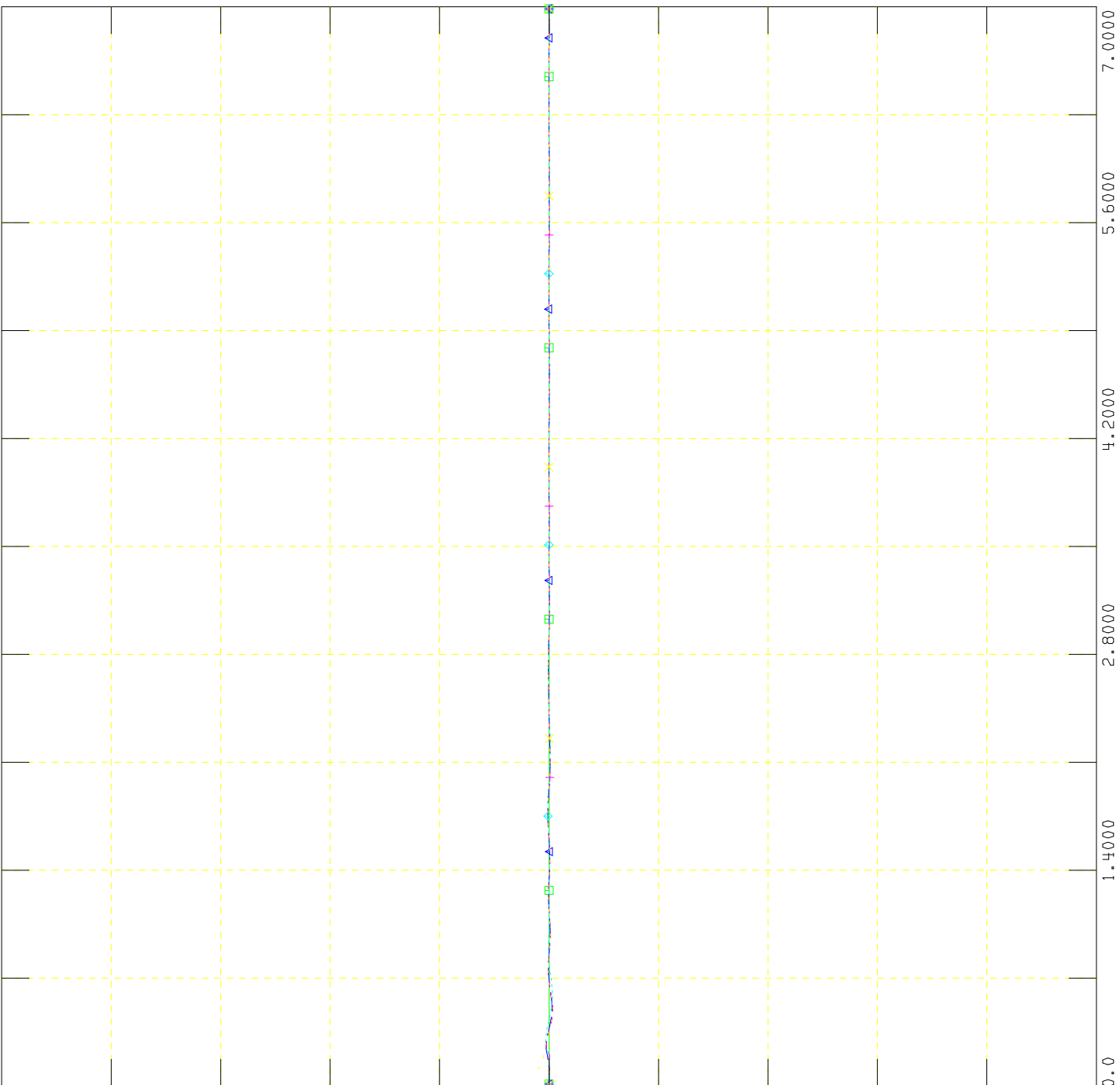
FRI, JUN 13 2008 15:04  
 MACHINE FREQUENCIES - 04



LC  
 LC-GENCT2  
 CLEAR LOCAL AND REMOVE IN 4CYC

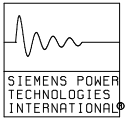
FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

0.50000	CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	x-----x	-0.5000
0.50000	CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	+-----+	-0.5000
0.50000	CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	◇-----◇	-0.5000
0.50000	CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	←-----△	-0.5000
0.50000	CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	▣-----▣	-0.5000



FRI, JUN 13 2008 15:04  
 MACHINE FREQUENCIES - 05

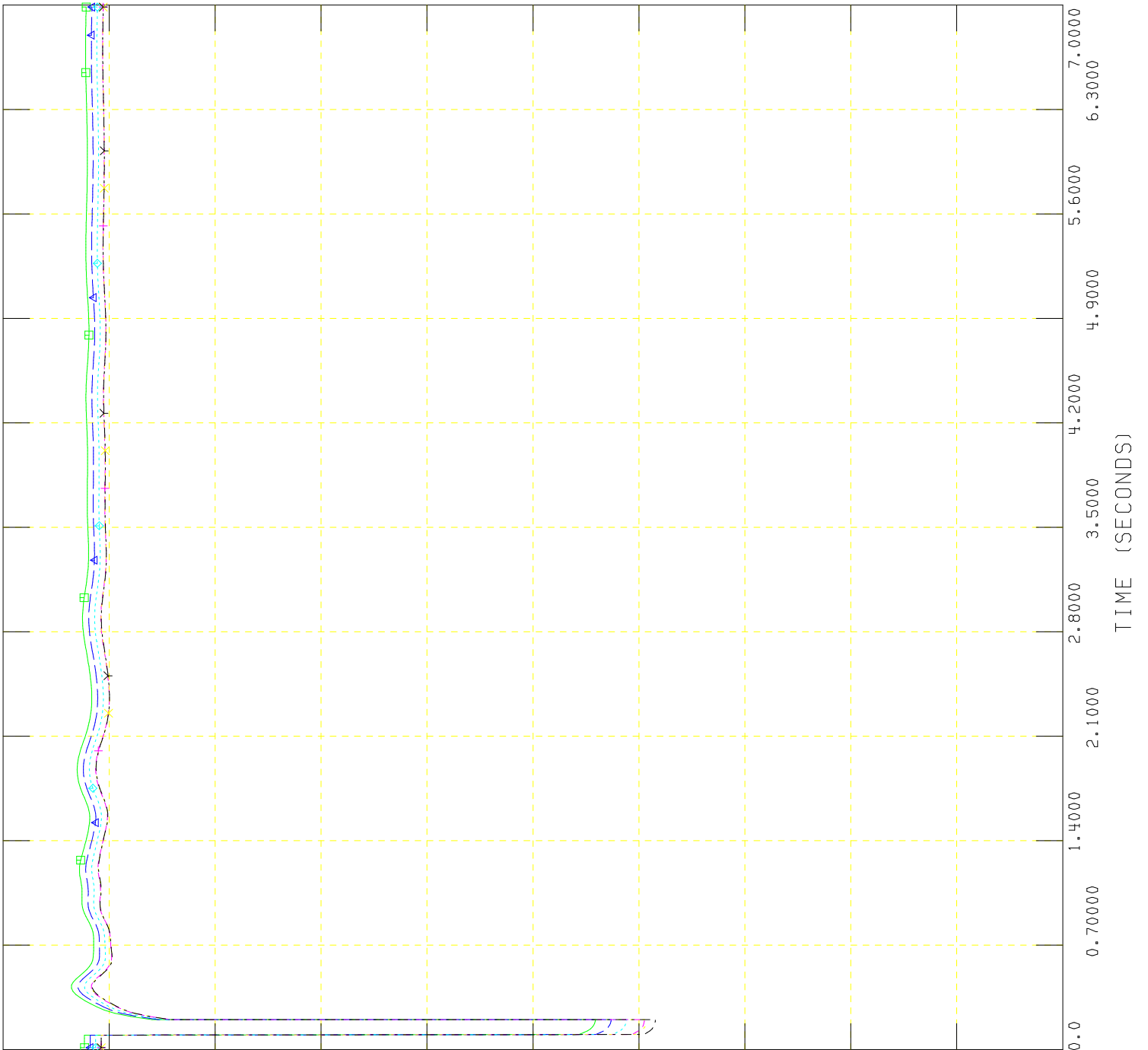




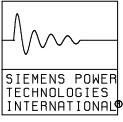
LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



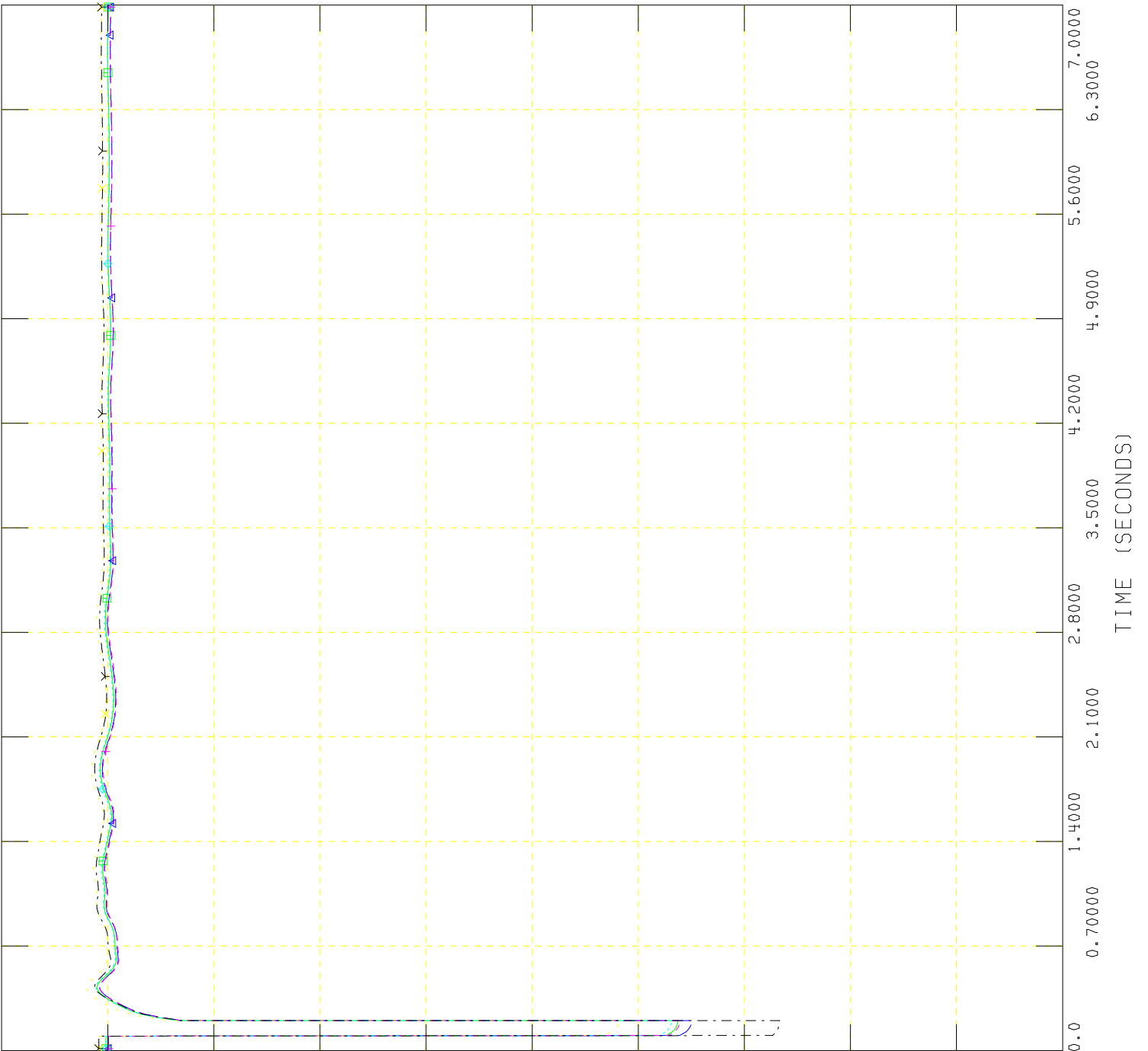
FRI, JUN 13 2008 15:04  
BUS VOLTAGES - 01



LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



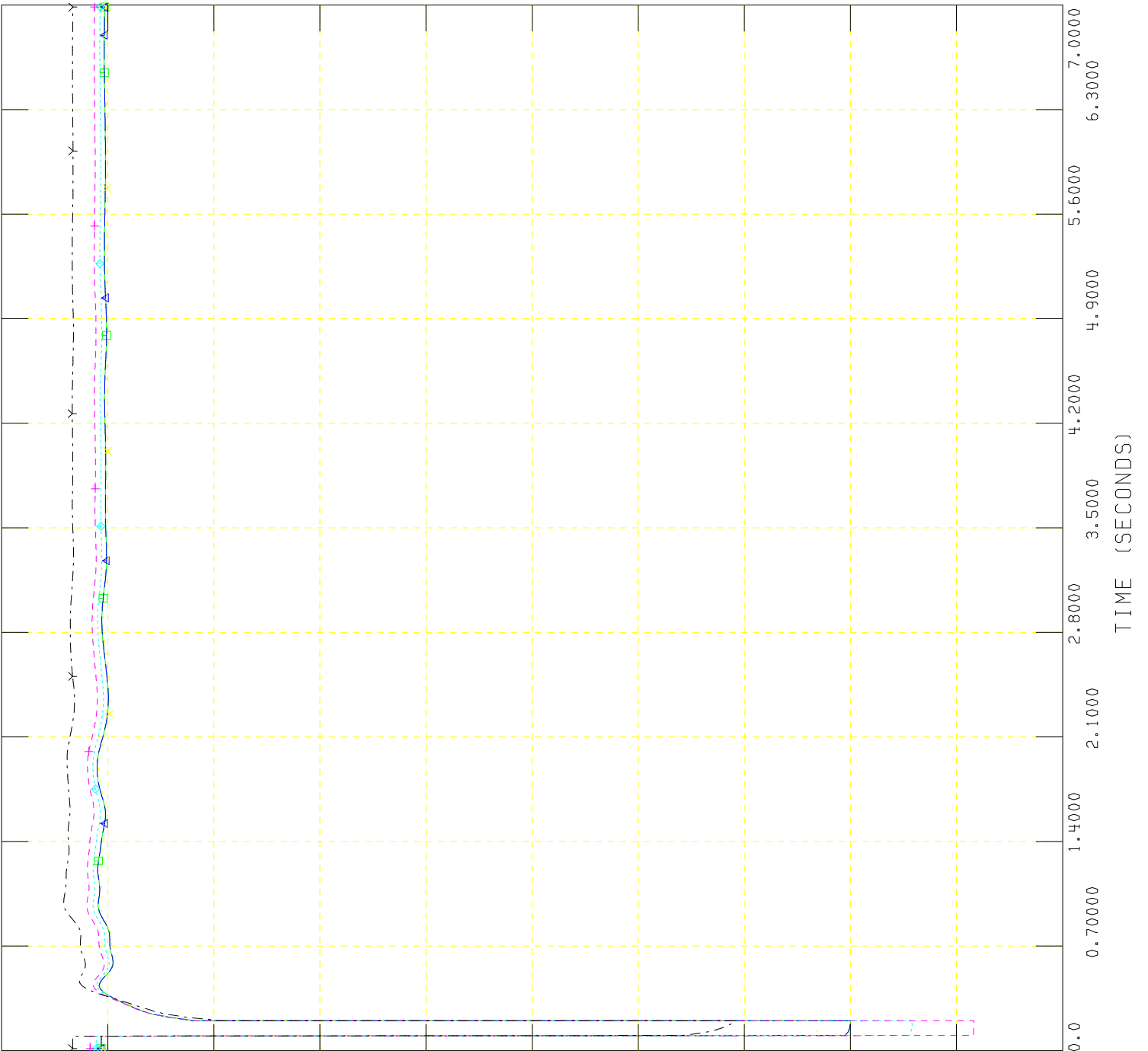
FRI, JUN 13 2008 15:04  
BUS VOLTAGES - 02



LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

Channel	Label	Value	Scale
CHNL# 81	[VOLT 334070 [G1LEWIS	22.000]]	-0.1000
CHNL# 80	[VOLT 334066 [4GEORGIA	138.00]]	-0.1000
CHNL# 79	[VOLT 334065 [4LACON	138.00]]	-0.1000
CHNL# 78	[VOLT 334064 [8LNG 413	138.00]]	-0.1000
CHNL# 77	[VOLT 334063 [4EVGRN*	138.00]]	-0.1000
CHNL# 76	[VOLT 334062 [4TEMCO	138.00]]	-0.1000



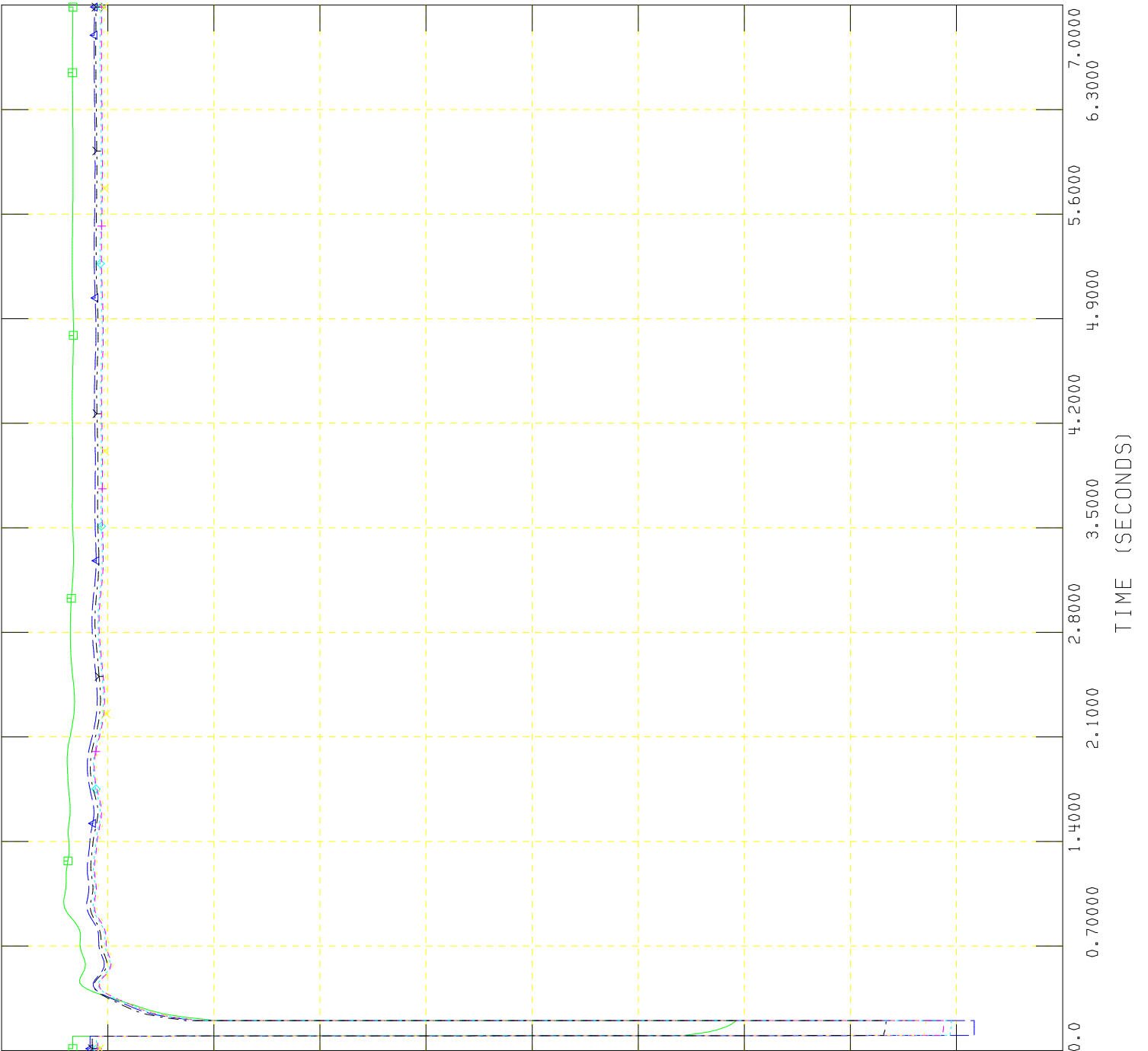
FRI, JUN 13 2008 15:04  
BUS VOLTAGES - 03



LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



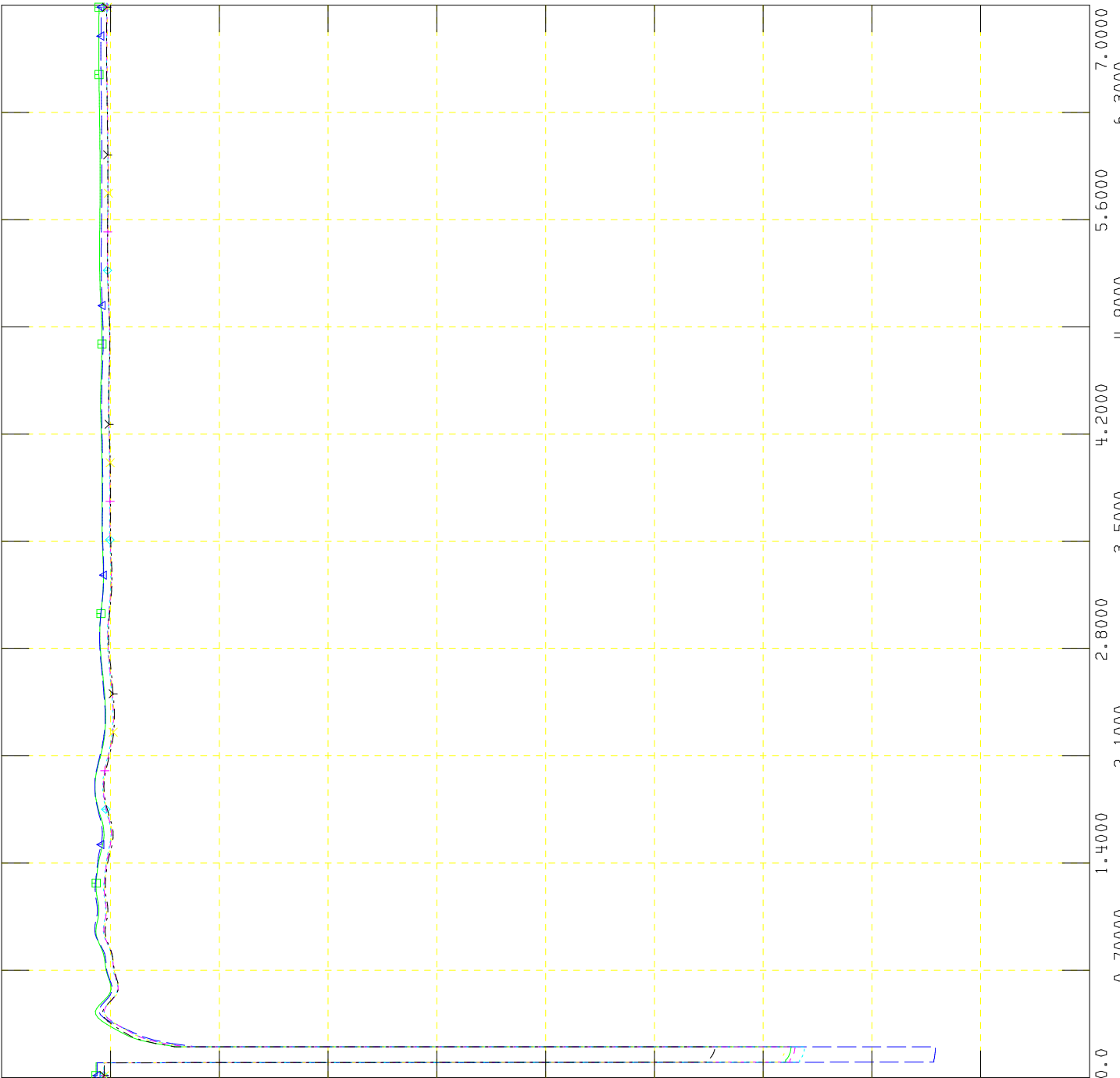
FRI, JUN 13 2008 15:04  
BUS VOLTAGES - 04



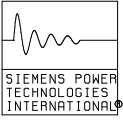
LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

Channel	Label	Value
CHNL# 93	[VOLT 334082 [4SECURTY	138.00]]
CHNL# 92	[VOLT 334081 [4CRYSTAL	138.00]]
CHNL# 91	[VOLT 334080 [5L555T50	138.00]]
CHNL# 90	[VOLT 334079 [4FWPIPE	138.00]]
CHNL# 89	[VOLT 334078 [4SHEAWIL	138.00]]
CHNL# 88	[VOLT 334077 [4PECHCK#	138.00]]



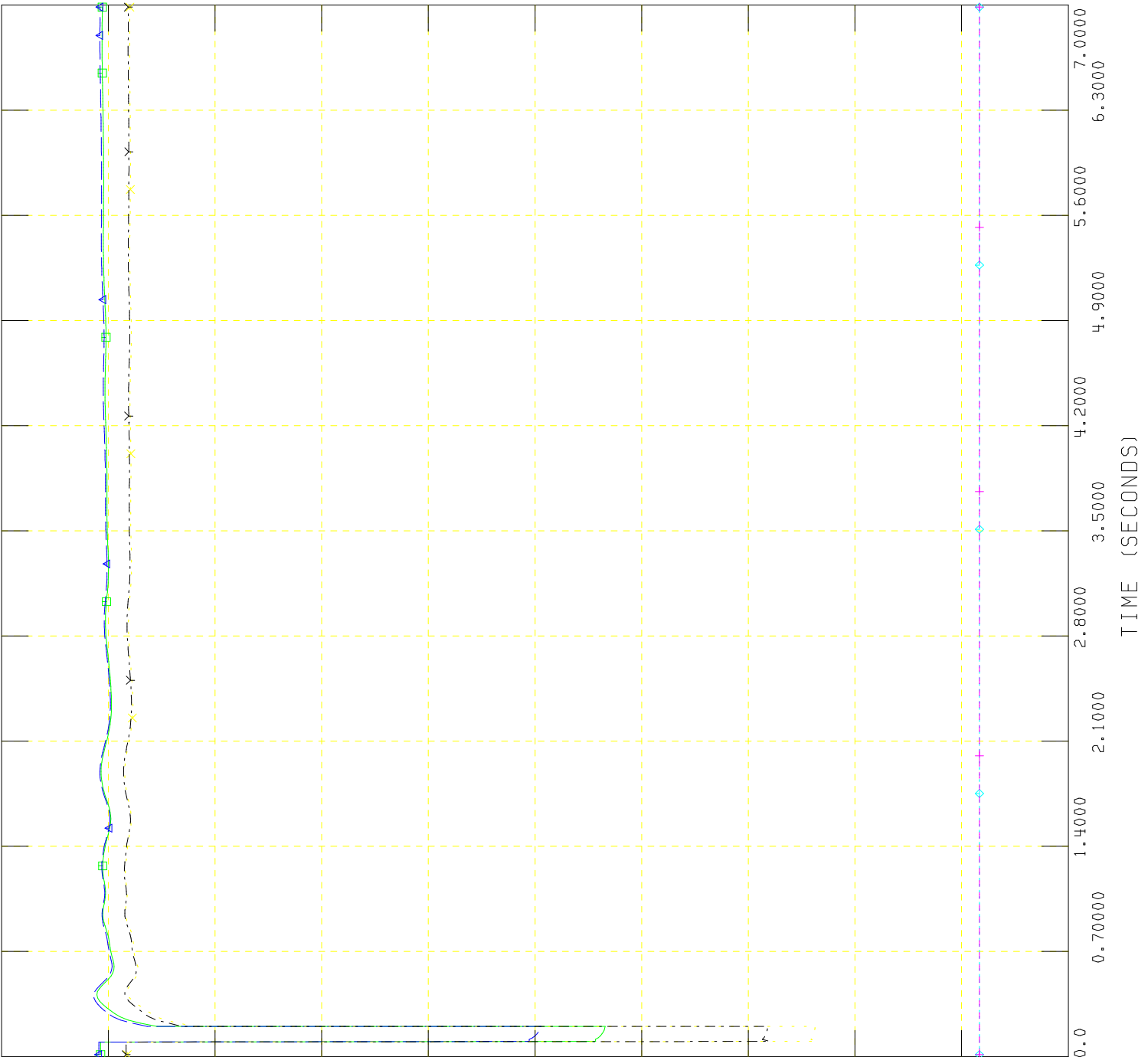
FRI, JUN 13 2008 15:04  
BUS VOLTAGES - 05



LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



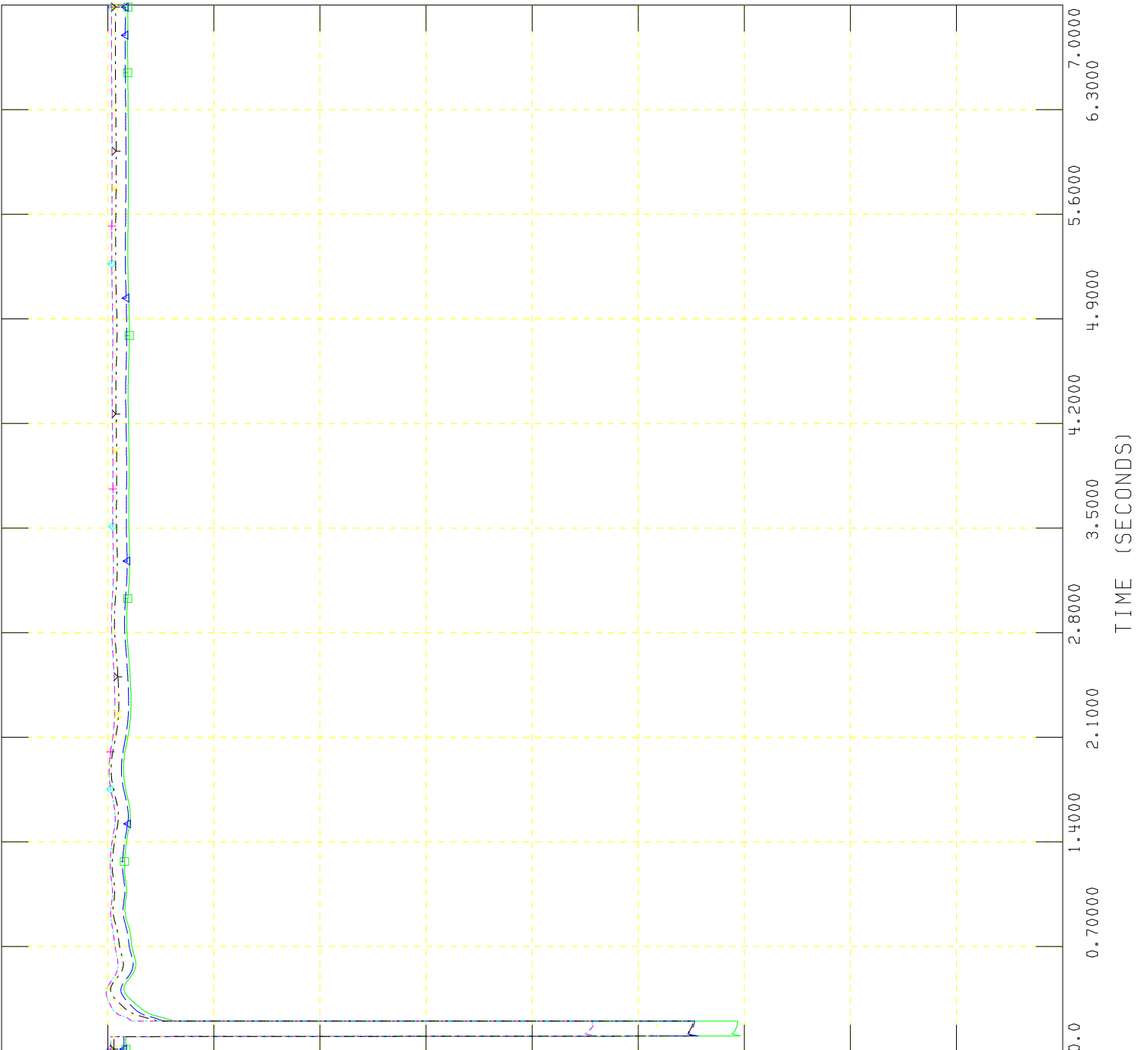
FRI, JUN 13 2008 15:04  
BUS VOLTAGES - 06



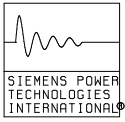
LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



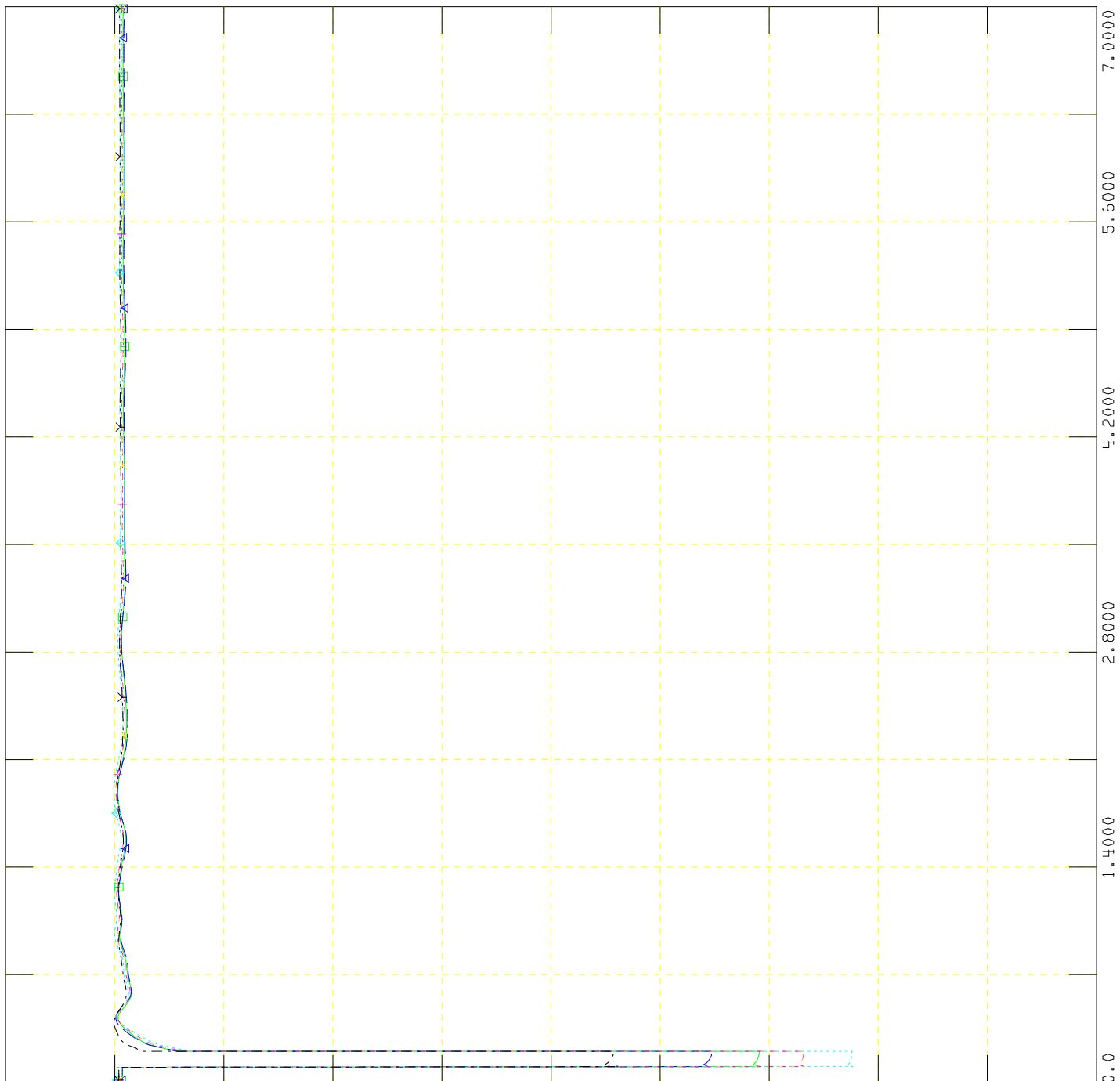
FRI, JUN 13 2008 15:04  
BUS VOLTAGES - 07



LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



FRI, JUN 13 2008 15:04  
BUS VOLTAGES - 08

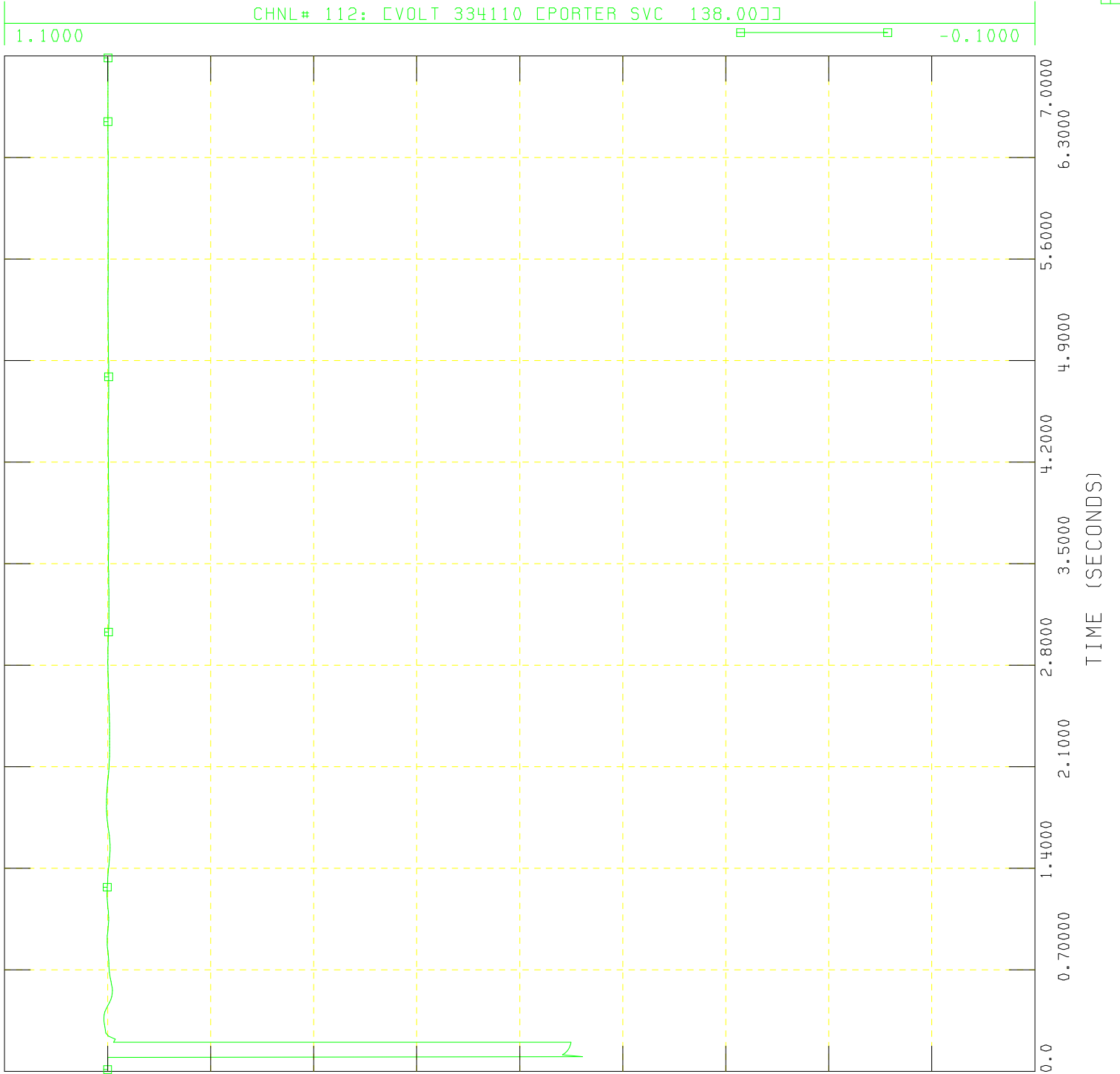




LC  
LC-GENCT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenCT2-4.out

FRI, JUN 13 2008 15:04  
BUS VOLTAGES - 09



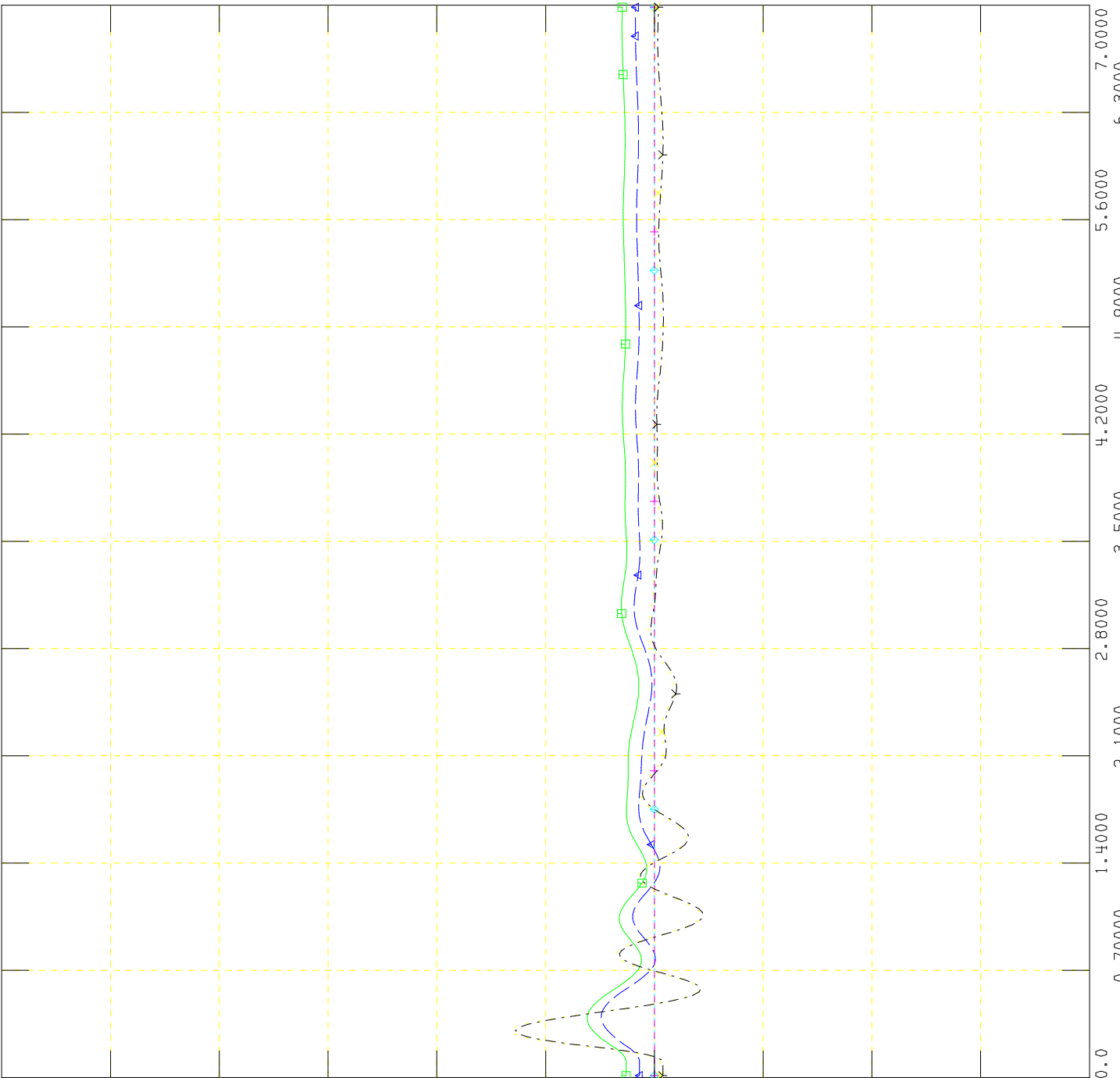
**FAULT G3**  
**Lewis Creek 138 kV (Drop ST1)**  
**Normal Clearing Times**



LC  
 LC-GENST1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
150.00	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
150.00	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
150.00	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
150.00	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
150.00	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



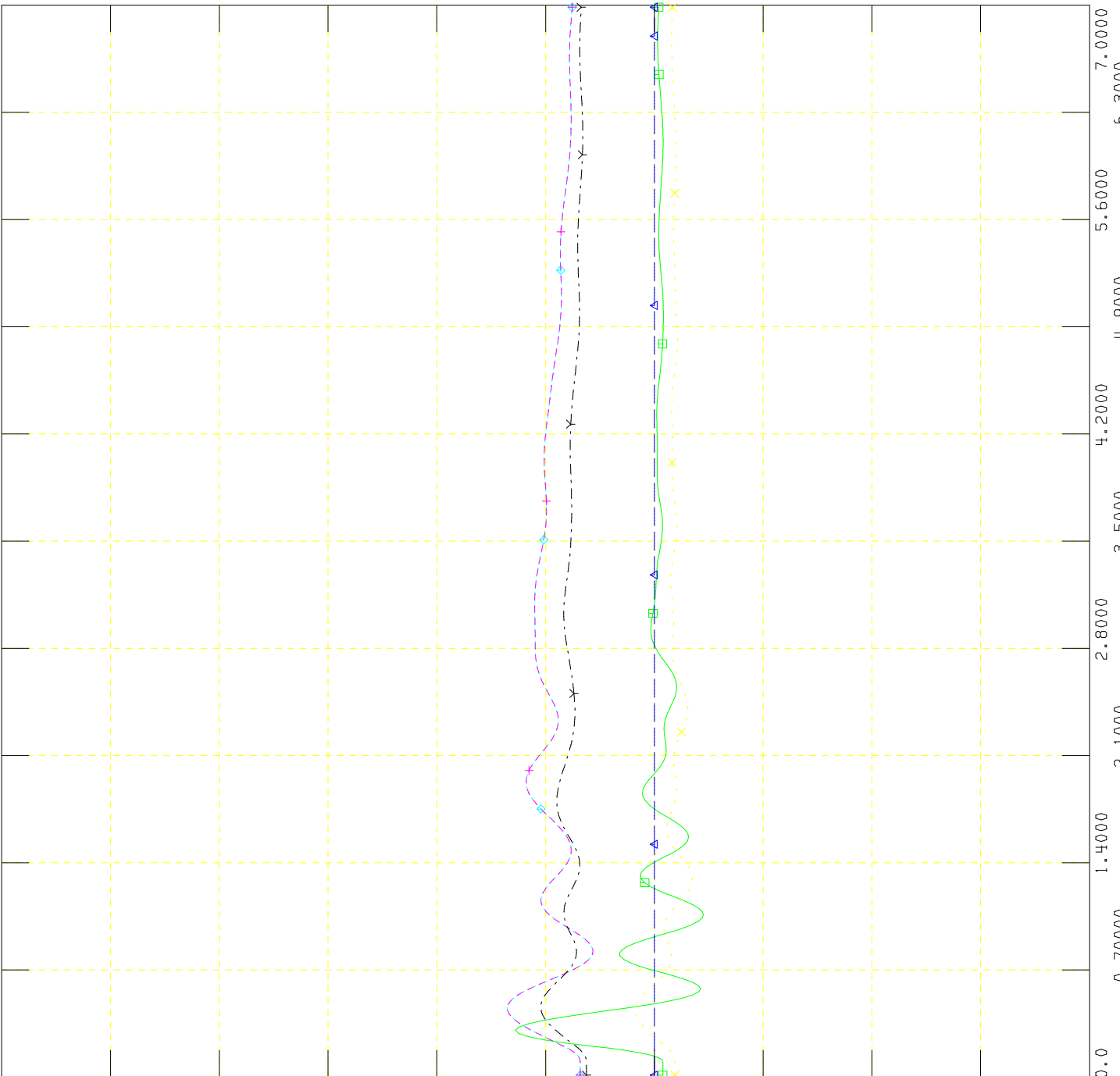
FRI, JUN 13 2008 15:06  
 MACHINE ANGLES - 01



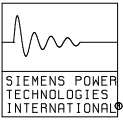
LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

Channel	Label	Value
150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

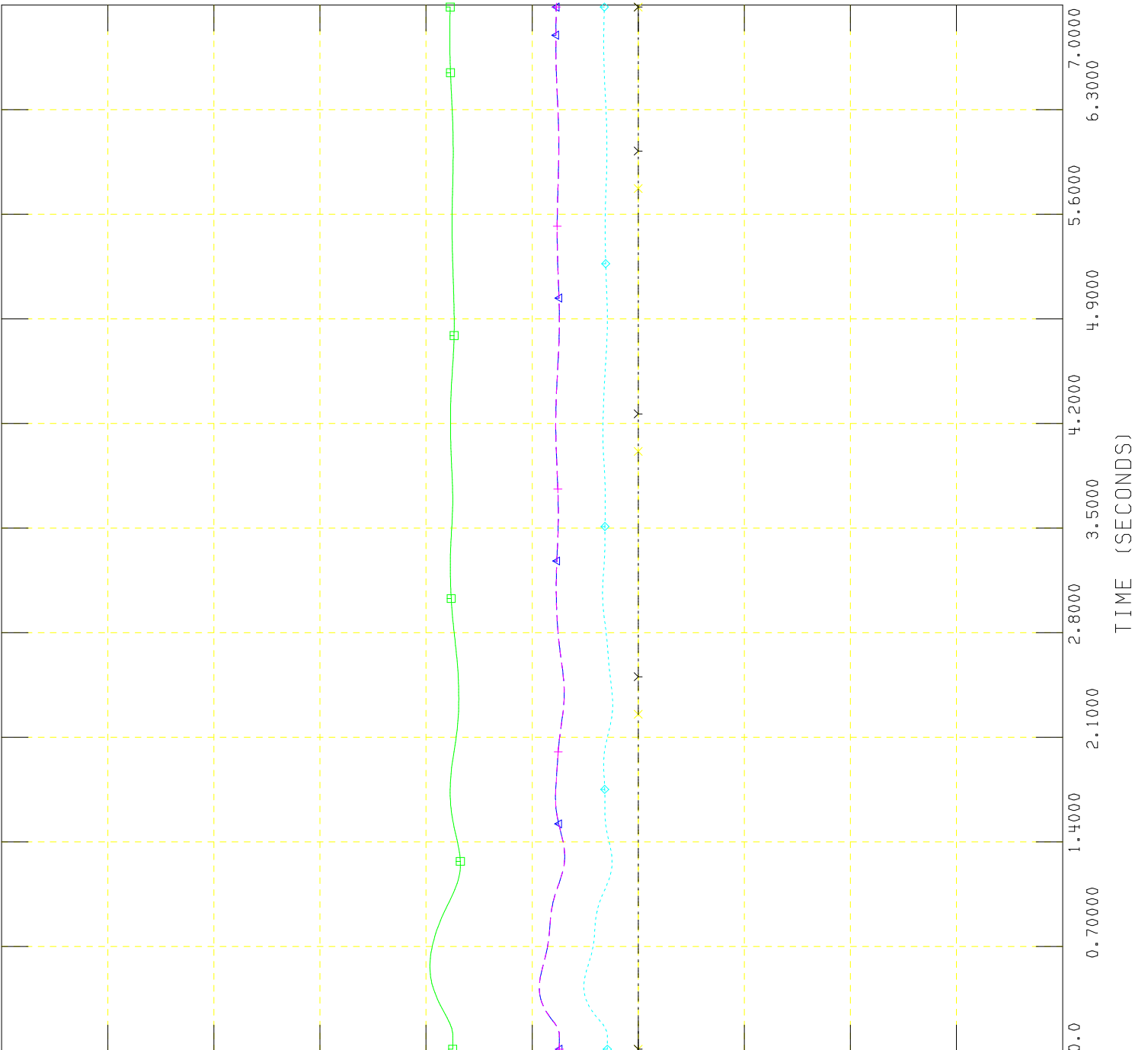
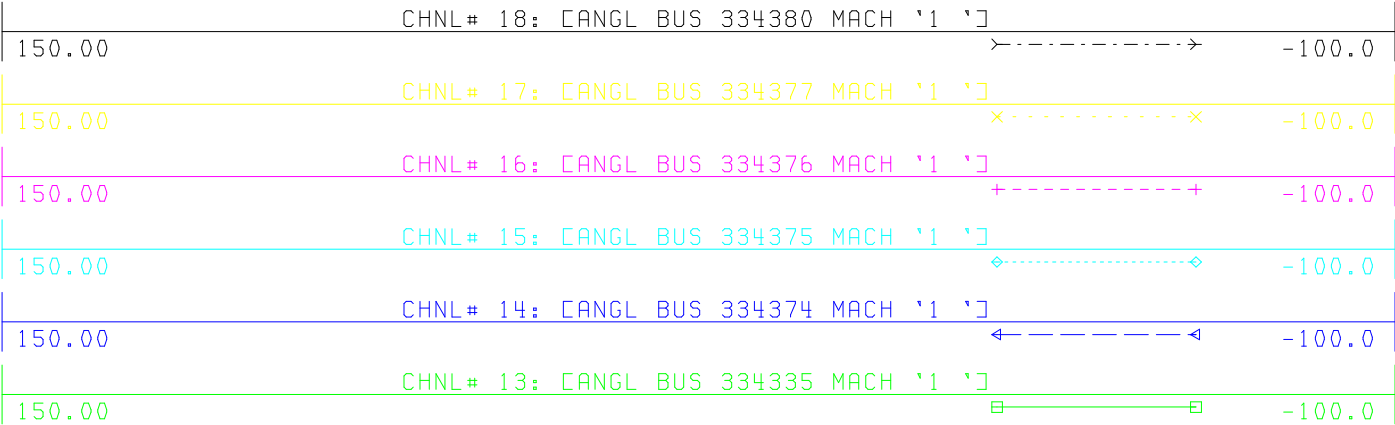


FRI, JUN 13 2008 15:06  
MACHINE ANGLES - 02

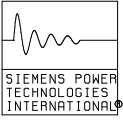


LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out



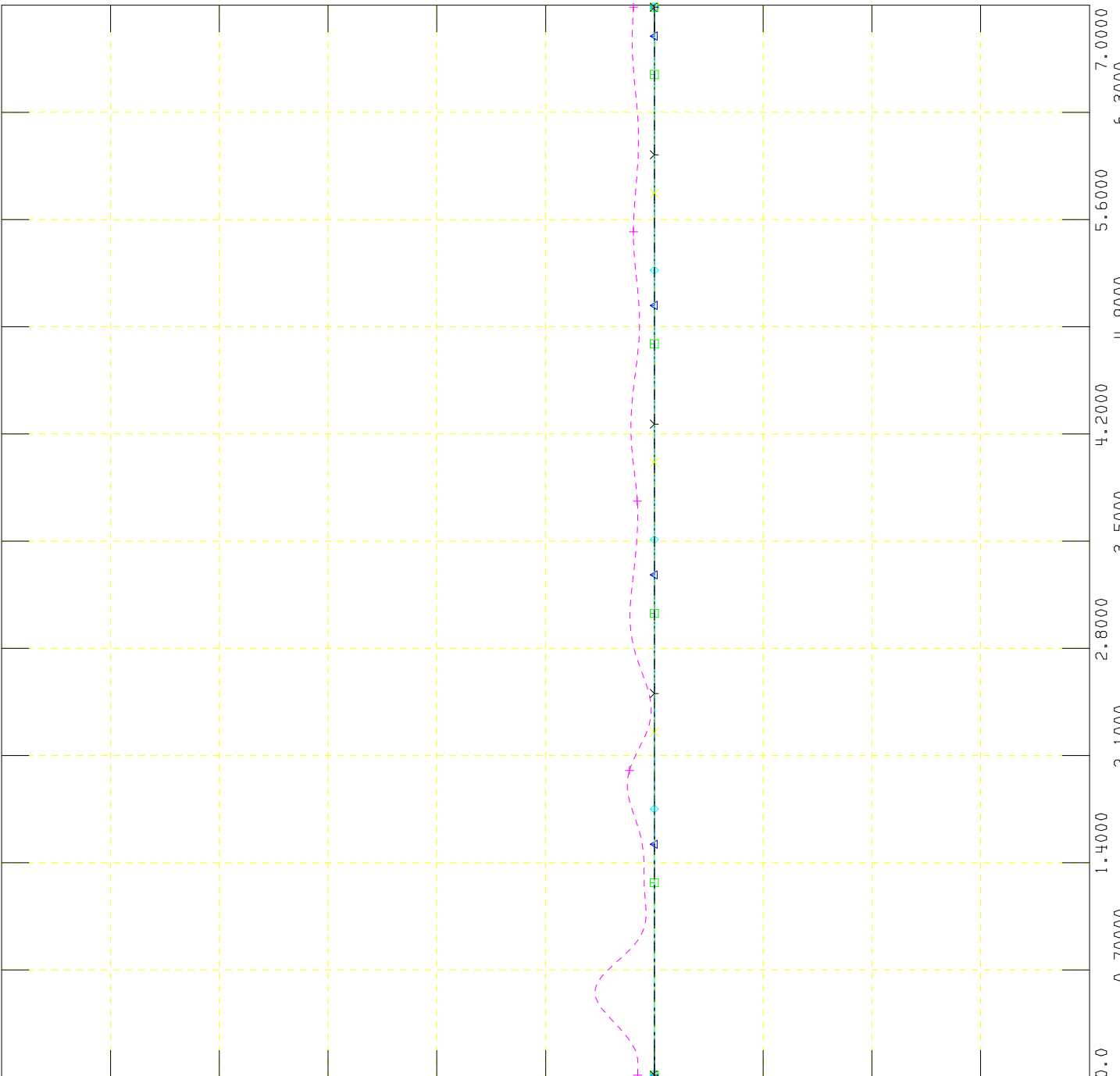
FRI, JUN 13 2008 15:06  
MACHINE ANGLES - 03



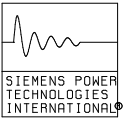
LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



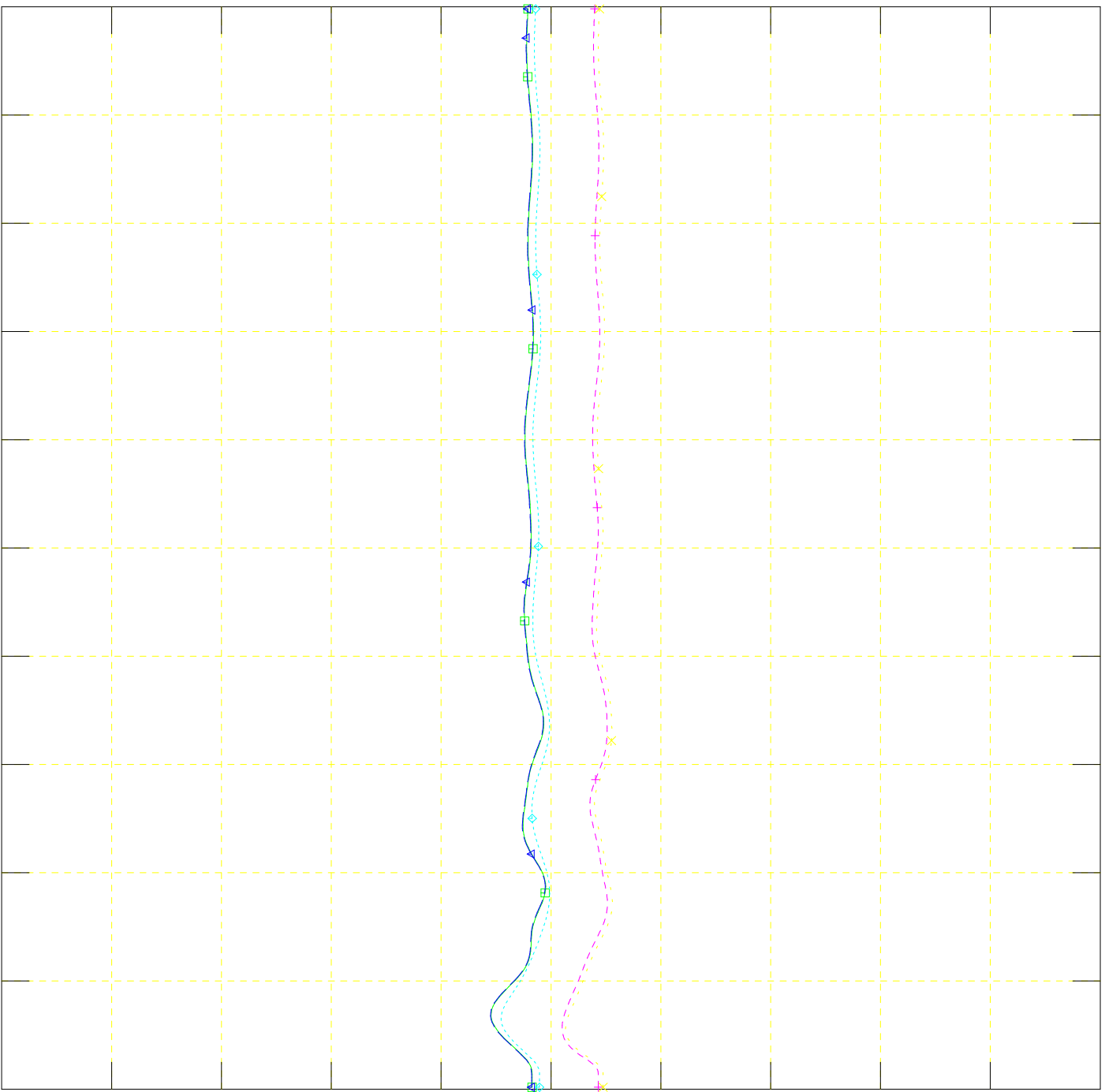
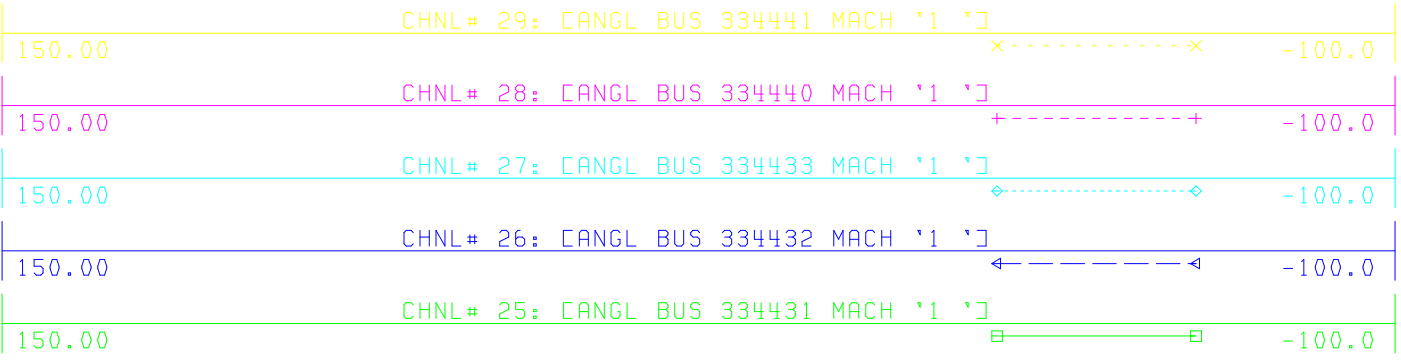
FRI, JUN 13 2008 15:06  
MACHINE ANGLES - 04



LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

FRI, JUN 13 2008 15:06  
MACHINE ANGLES - 05

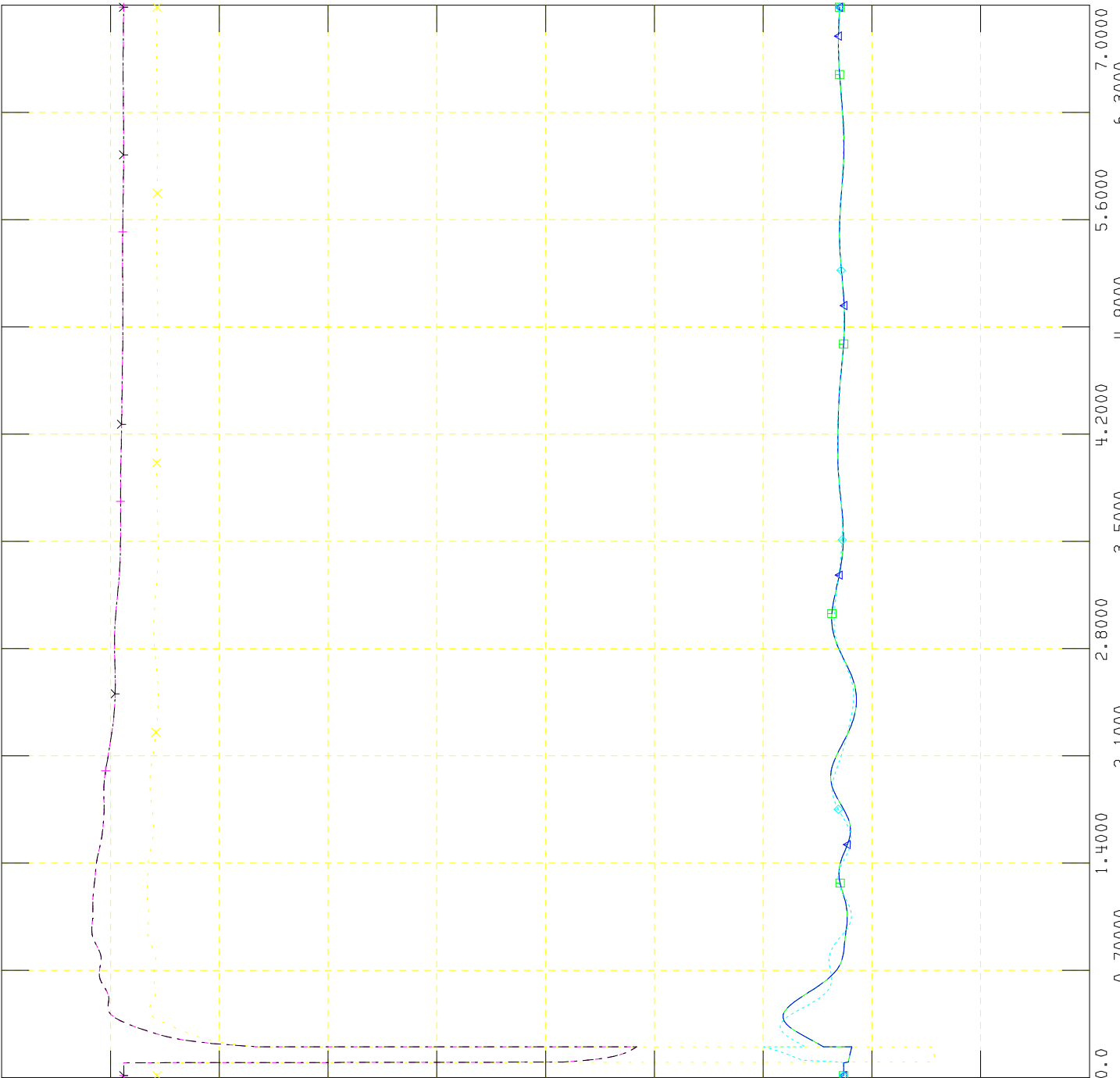




LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



FRI, JUN 13 2008 15:06  
ANG & VOLT - PID-211 GENS

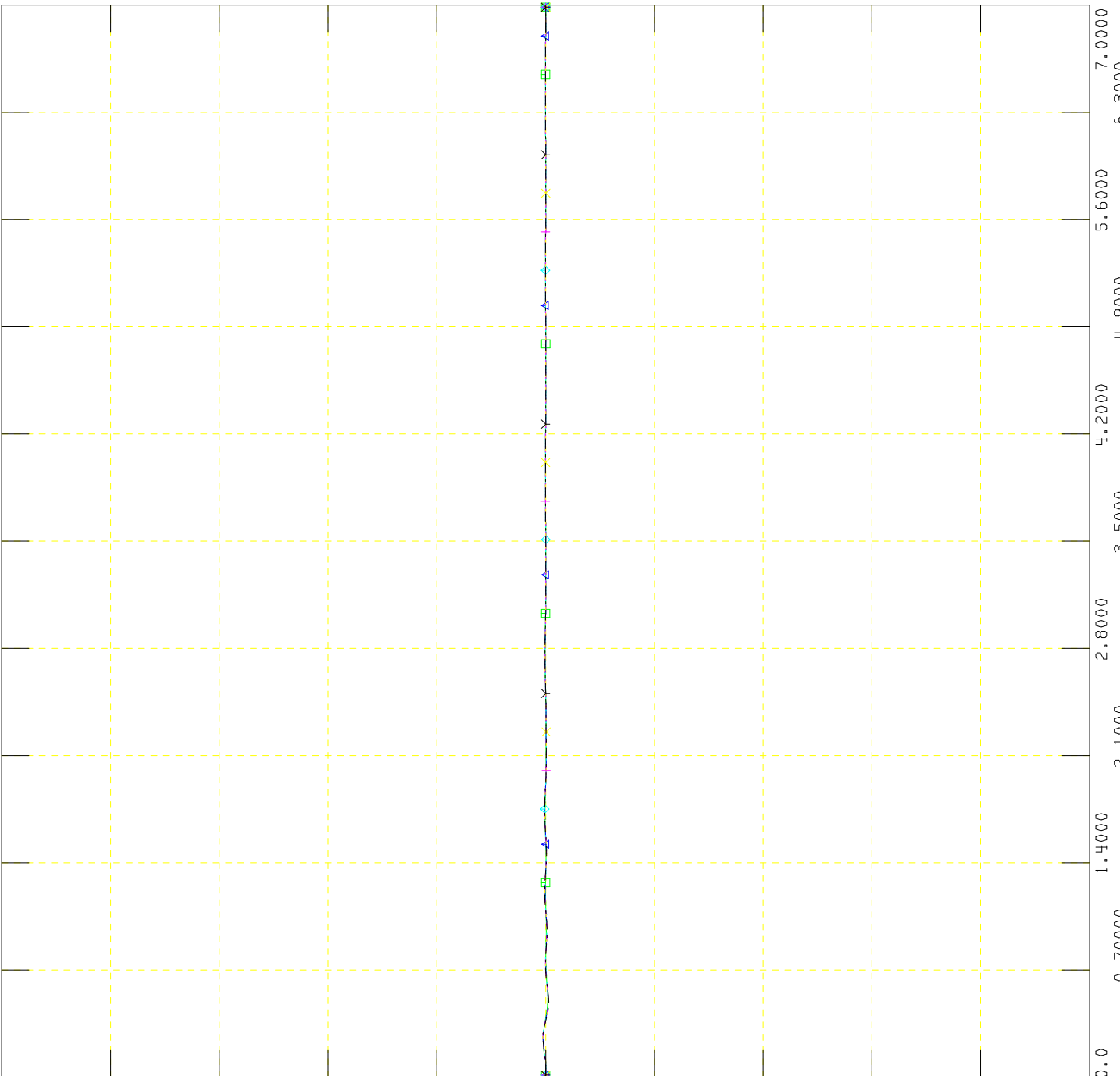




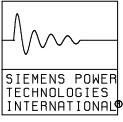
LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

Channel	Frequency (Hz)	Phase (degrees)	Amplitude (p.u.)
CHNL# 41	CFREQ 334065	C4LACON	138.00
CHNL# 40	CFREQ 334064	C8LNG 413	138.00
CHNL# 39	CFREQ 334063	C4EVGRN*	138.00
CHNL# 38	CFREQ 334062	C4TEMCO	138.00
CHNL# 37	CFREQ 334061	C4GOREE	138.00
CHNL# 36	CFREQ 334060	C4MT.ZION	138.00



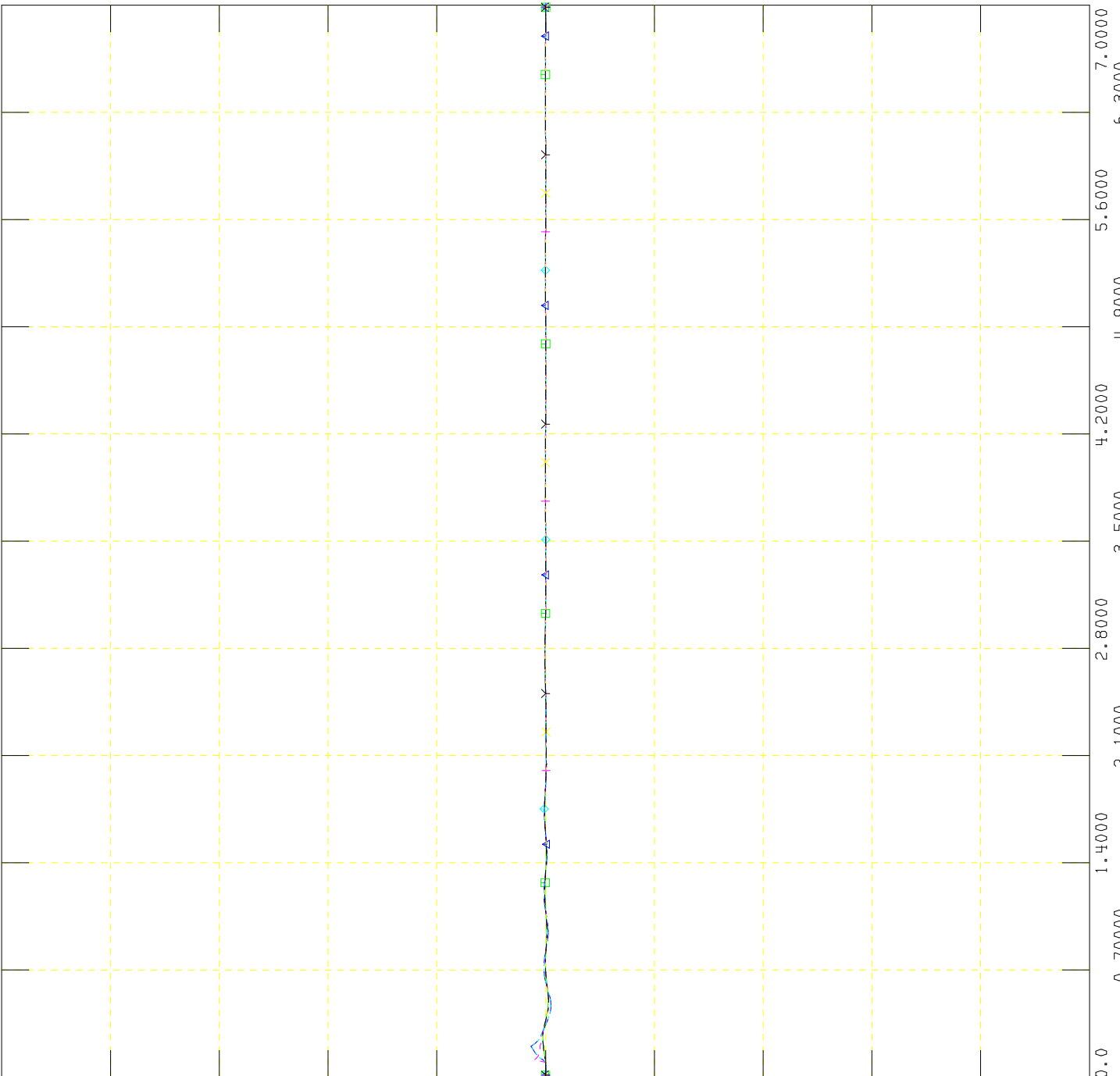
FRI, JUN 13 2008 15:06  
MACHINE FREQUENCIES - 01



LC  
 LC-GENST1  
 CLEAR LOCAL AND REMOVE IN 4CYC

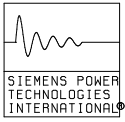
FILE: C:\Southwest Power Pool\LC-GenST1-5.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



FRI, JUN 13 2008 15:06  
 MACHINE FREQUENCIES - 02

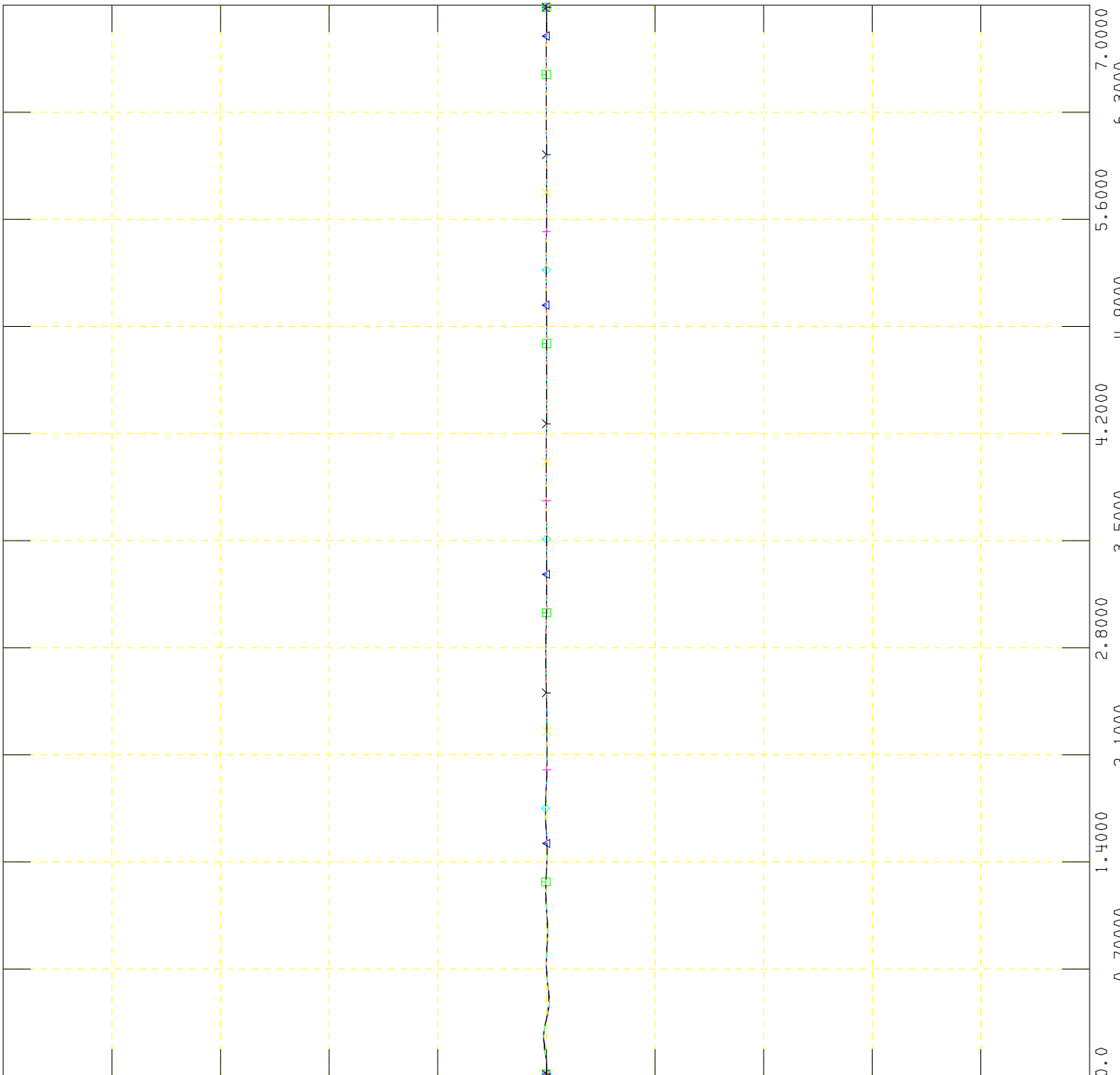
TIME (SECONDS)



LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

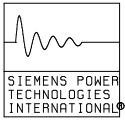
FILE: C:\Southwest Power Pool\LC-GenST1-5.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



FRI, JUN 13 2008 15:06  
MACHINE FREQUENCIES - 03

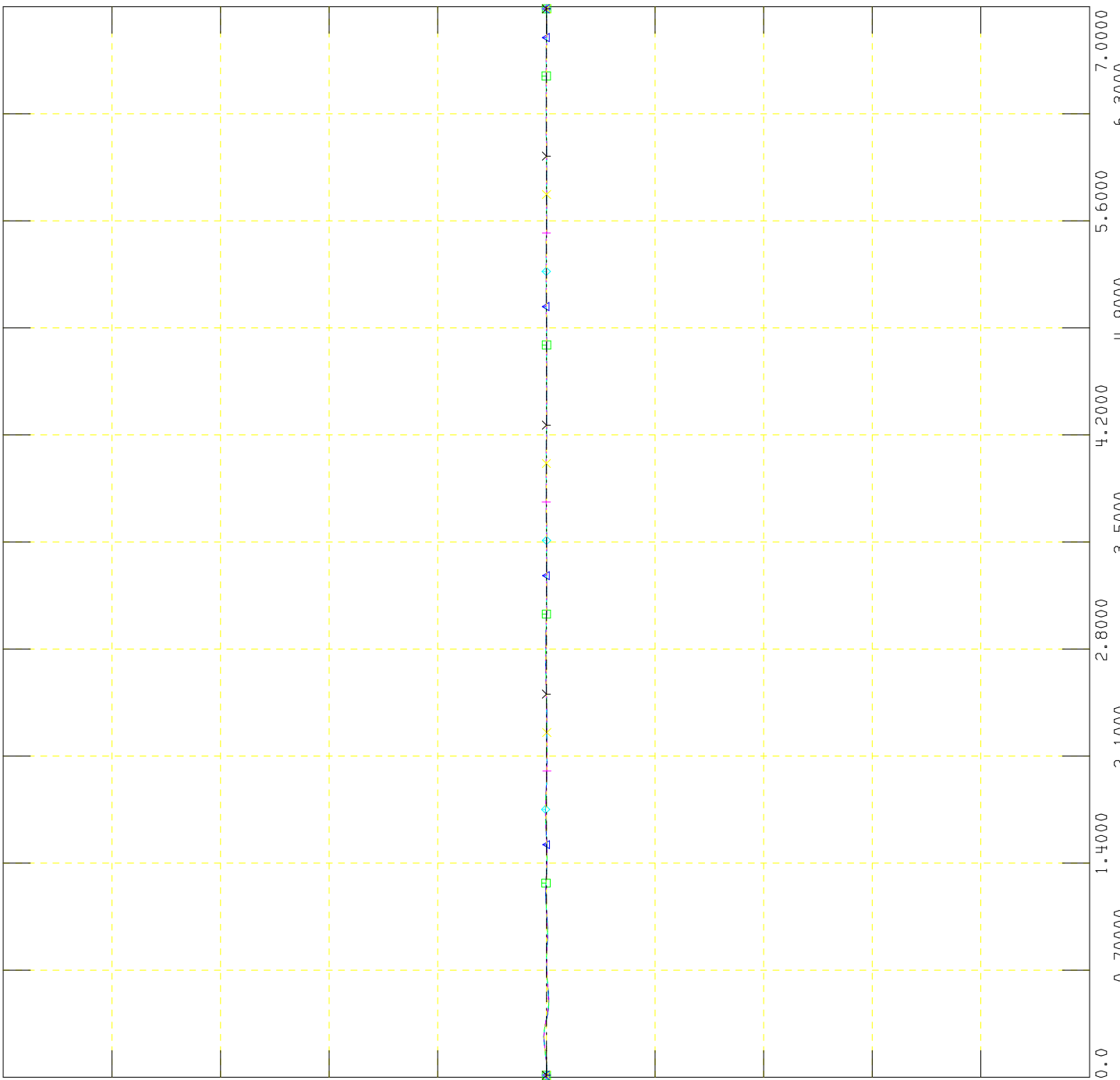
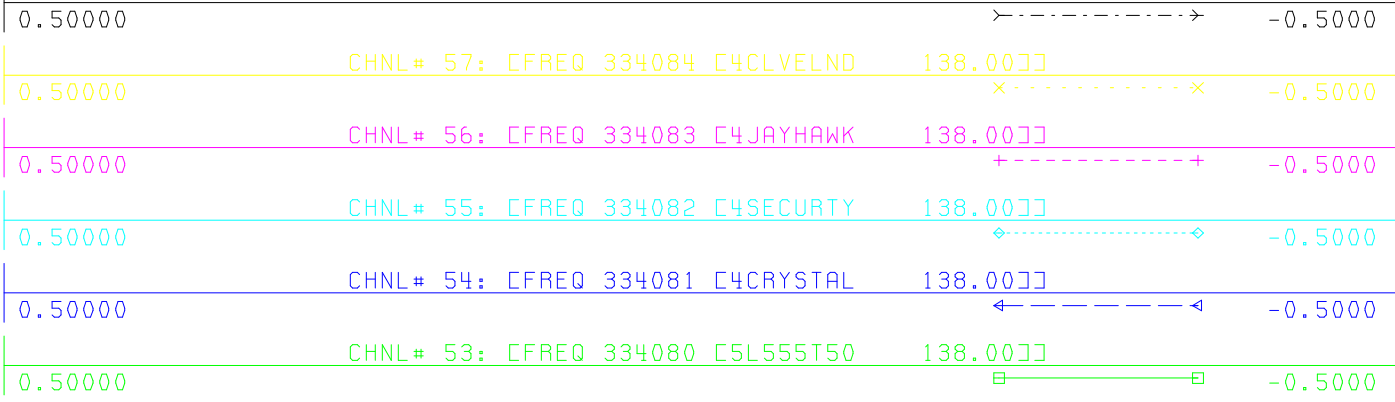
TIME (SECONDS)



LC  
 LC-GENST1  
 CLEAR LOCAL AND REMOVE IN 4CYC

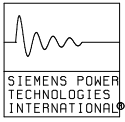
FILE: C:\Southwest Power Pool\LC-GenST1-5.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 15:06  
 MACHINE FREQUENCIES - 04

TIME (SECONDS)

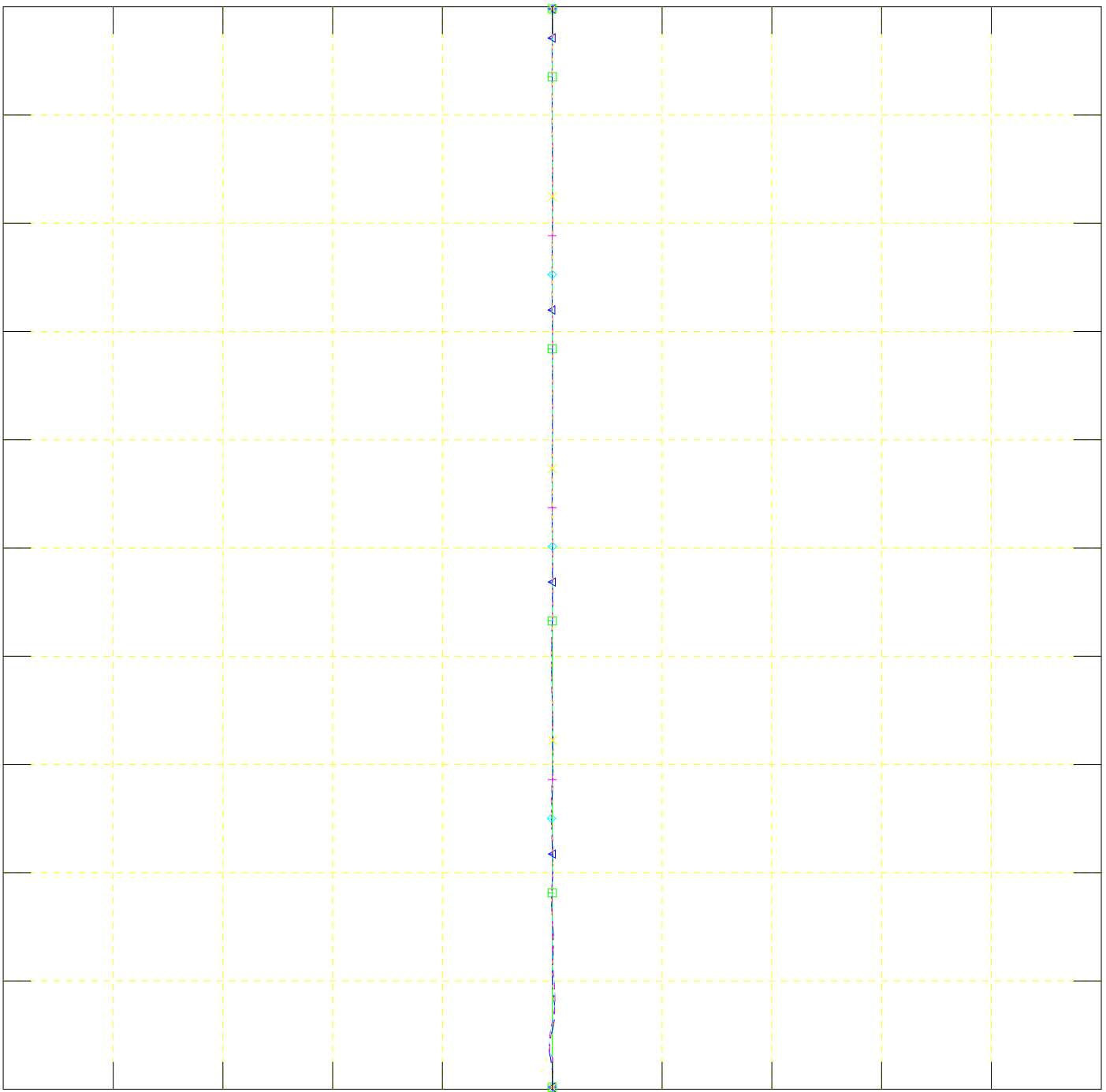


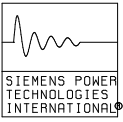
LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

FRI, JUN 13 2008 15:06  
MACHINE FREQUENCIES - 05

Channel	FREQ	GEN	Value
CHNL# 63	CFREQ 99183	G3PID211	18.000
CHNL# 62	CFREQ 99182	G2PID211	18.000
CHNL# 61	CFREQ 99181	G1PID211	18.000
CHNL# 60	CFREQ 334090	G4ALDEN	138.00
CHNL# 59	CFREQ 334086	G6CONROE	230.00

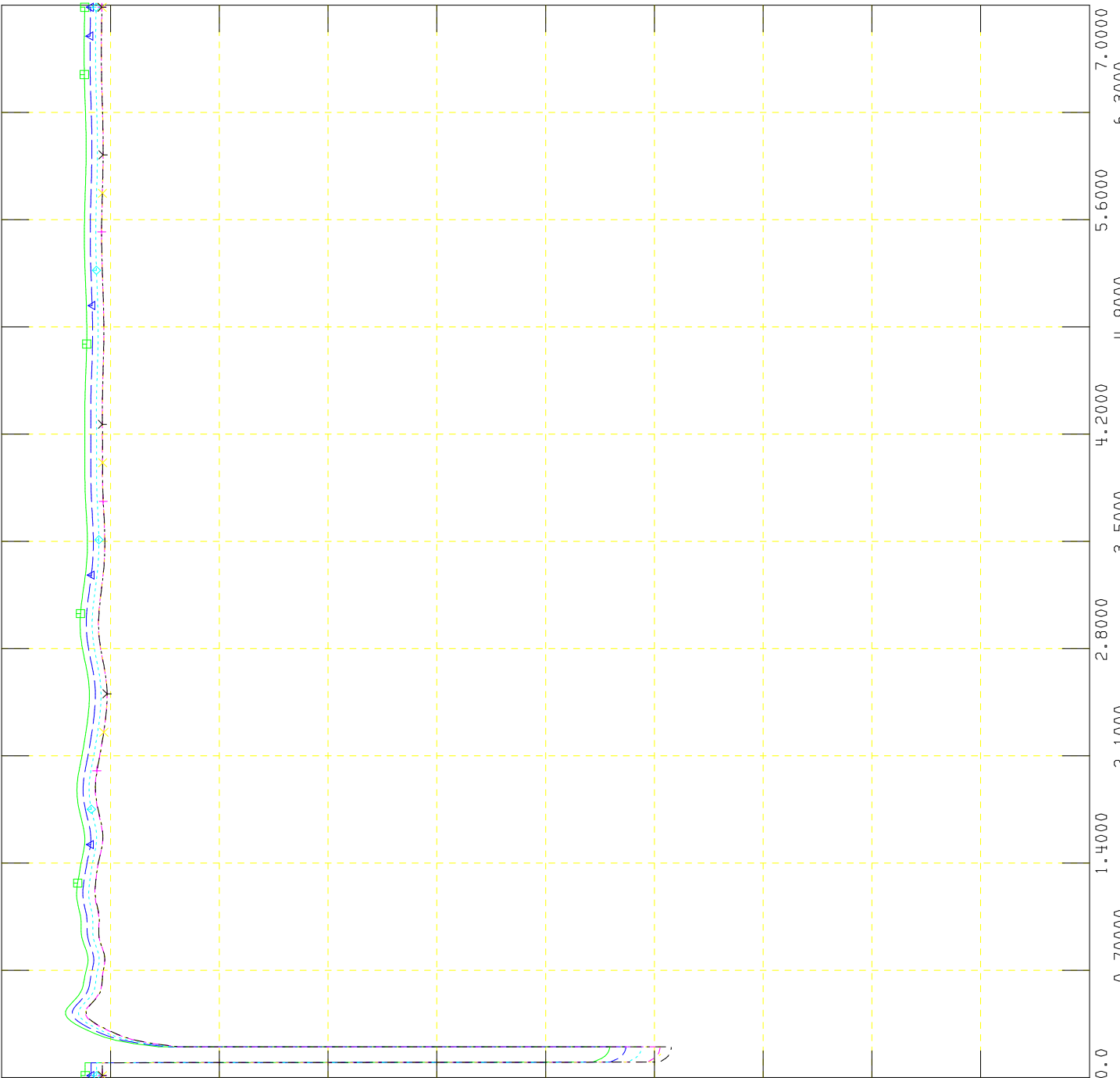




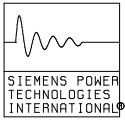
LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



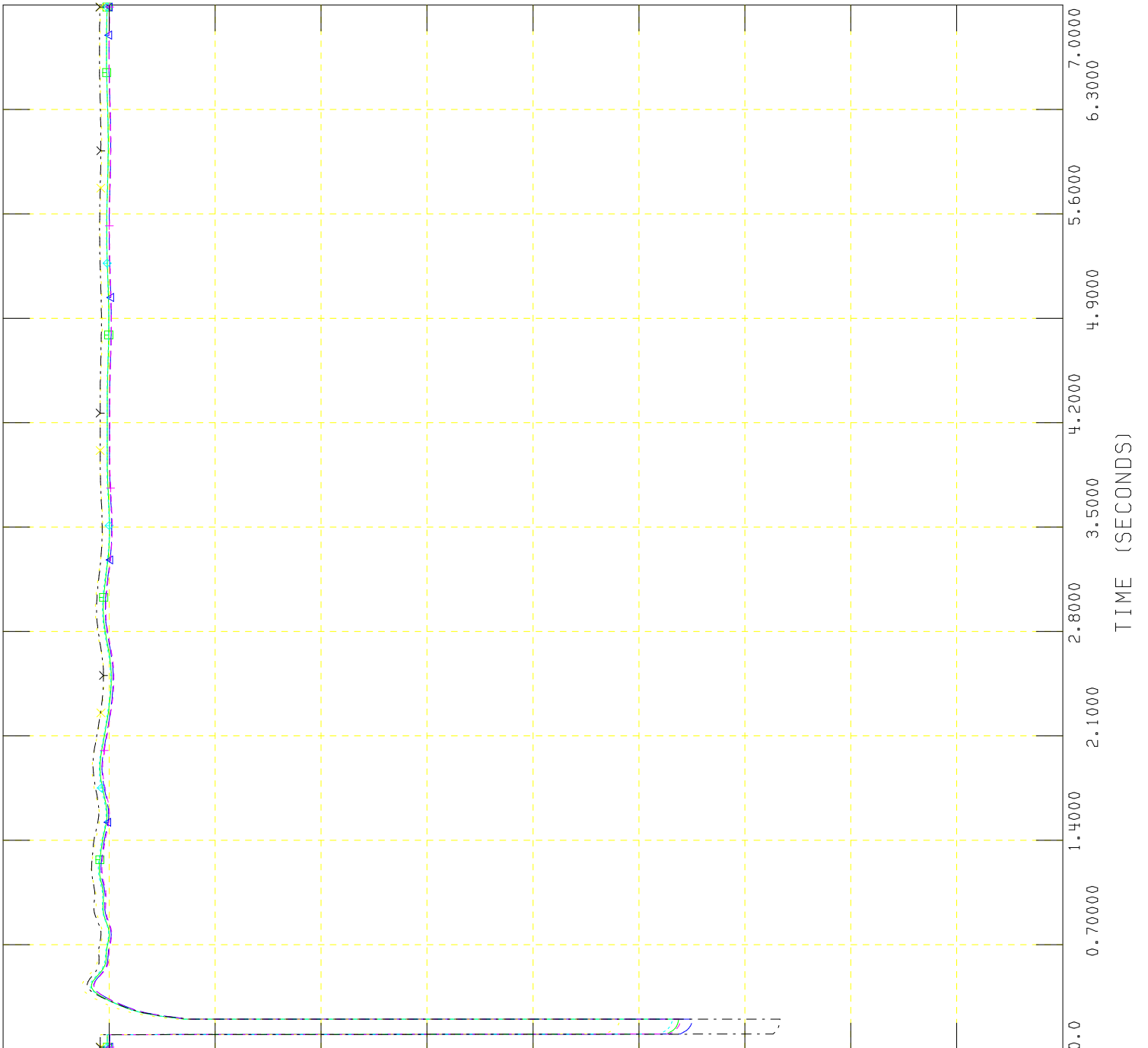
FRI, JUN 13 2008 15:06  
BUS VOLTAGES - 01



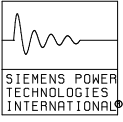
LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



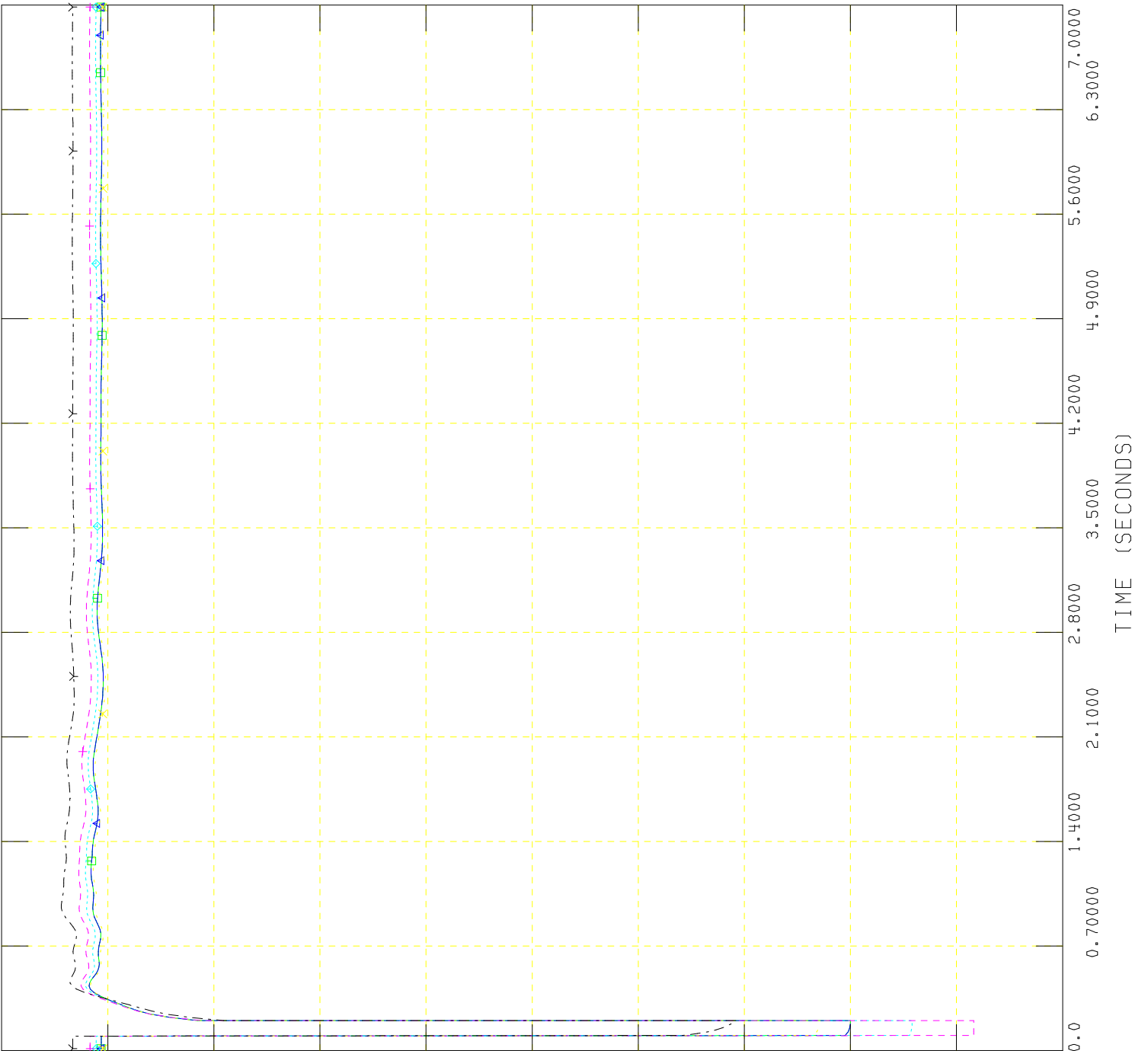
FRI, JUN 13 2008 15:06  
BUS VOLTAGES - 02



LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

Channel	Label	Value	Scale
CHNL# 81	[VOLT 334070 [G1LEWIS	22.000]]	
CHNL# 80	[VOLT 334066 [4GEORGIA	138.00]]	
CHNL# 79	[VOLT 334065 [4LACON	138.00]]	
CHNL# 78	[VOLT 334064 [8LNG 413	138.00]]	
CHNL# 77	[VOLT 334063 [4EVGRN*	138.00]]	
CHNL# 76	[VOLT 334062 [4TEMCO	138.00]]	



FRI, JUN 13 2008 15:06  
BUS VOLTAGES - 03

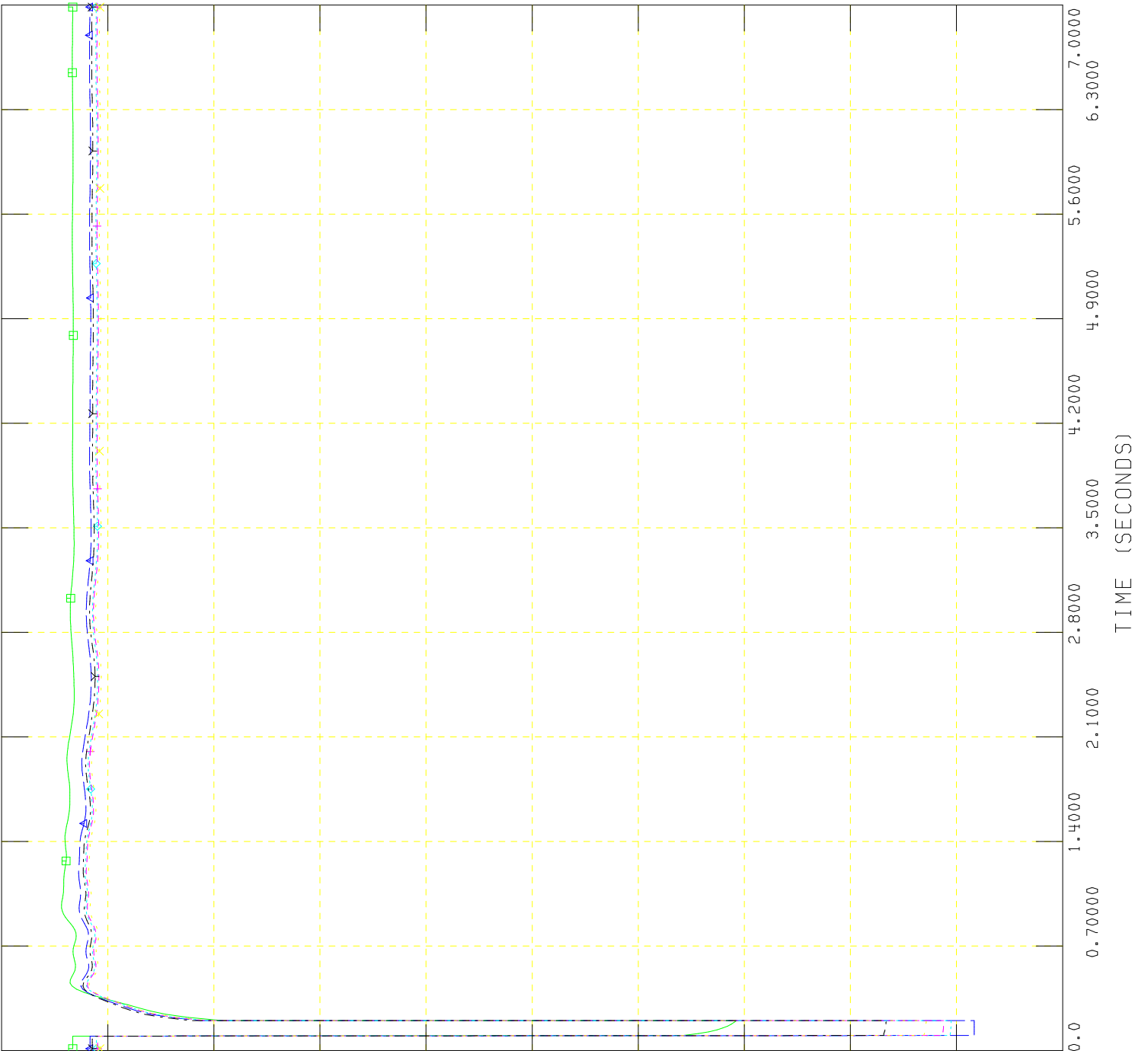




LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



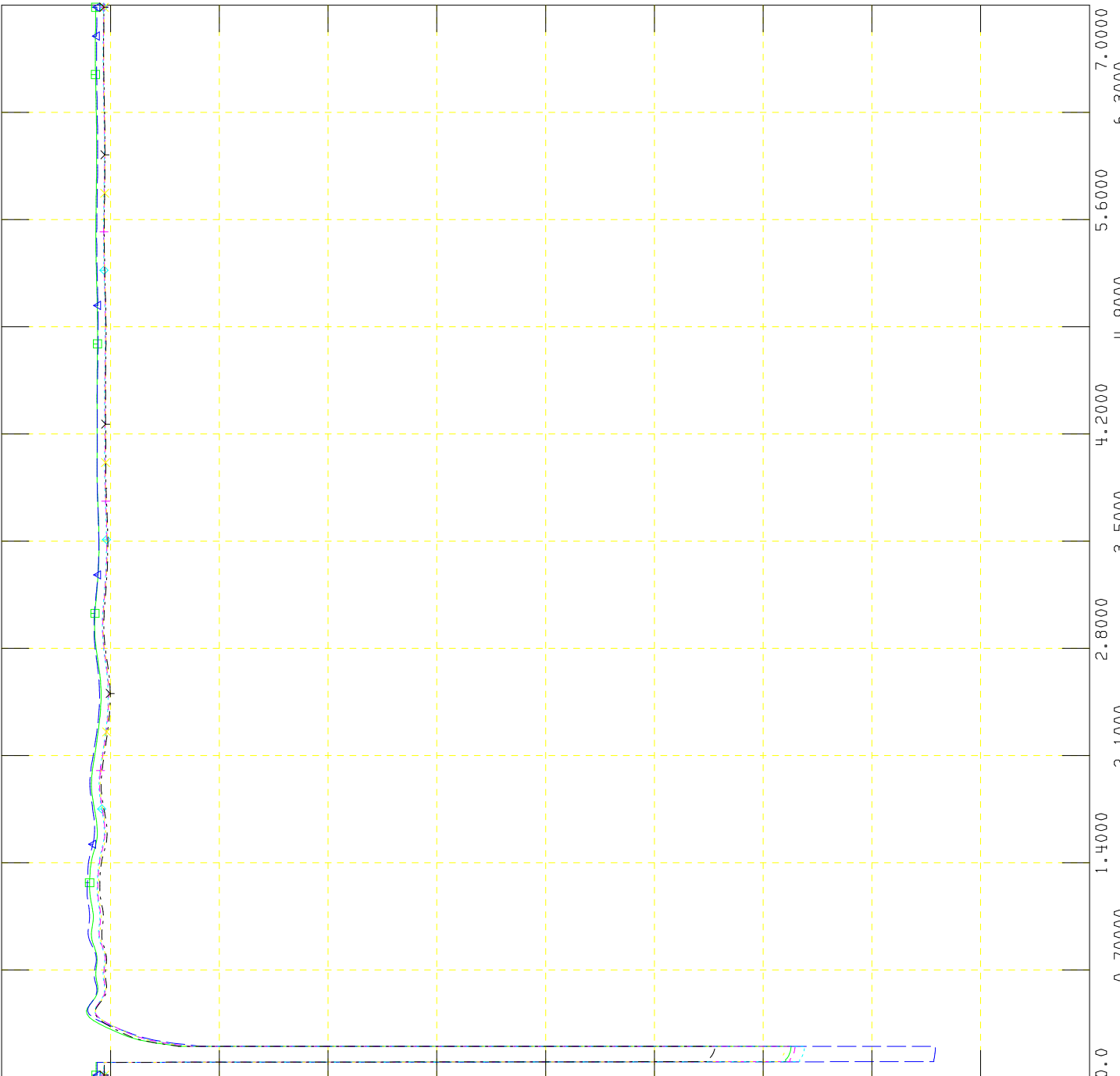
FRI, JUN 13 2008 15:06  
BUS VOLTAGES - 04



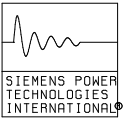
LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



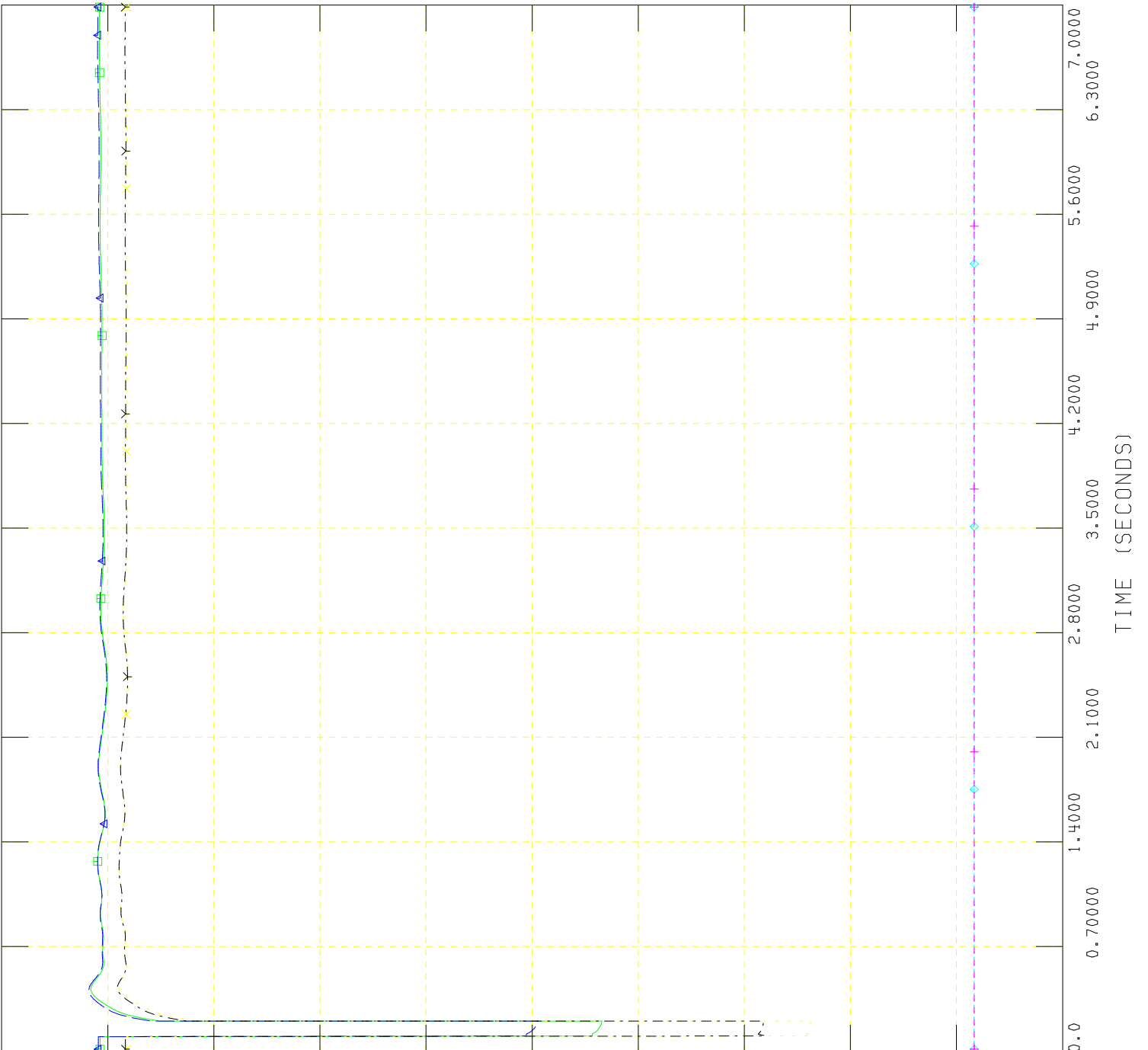
FRI, JUN 13 2008 15:06  
BUS VOLTAGES - 05



LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



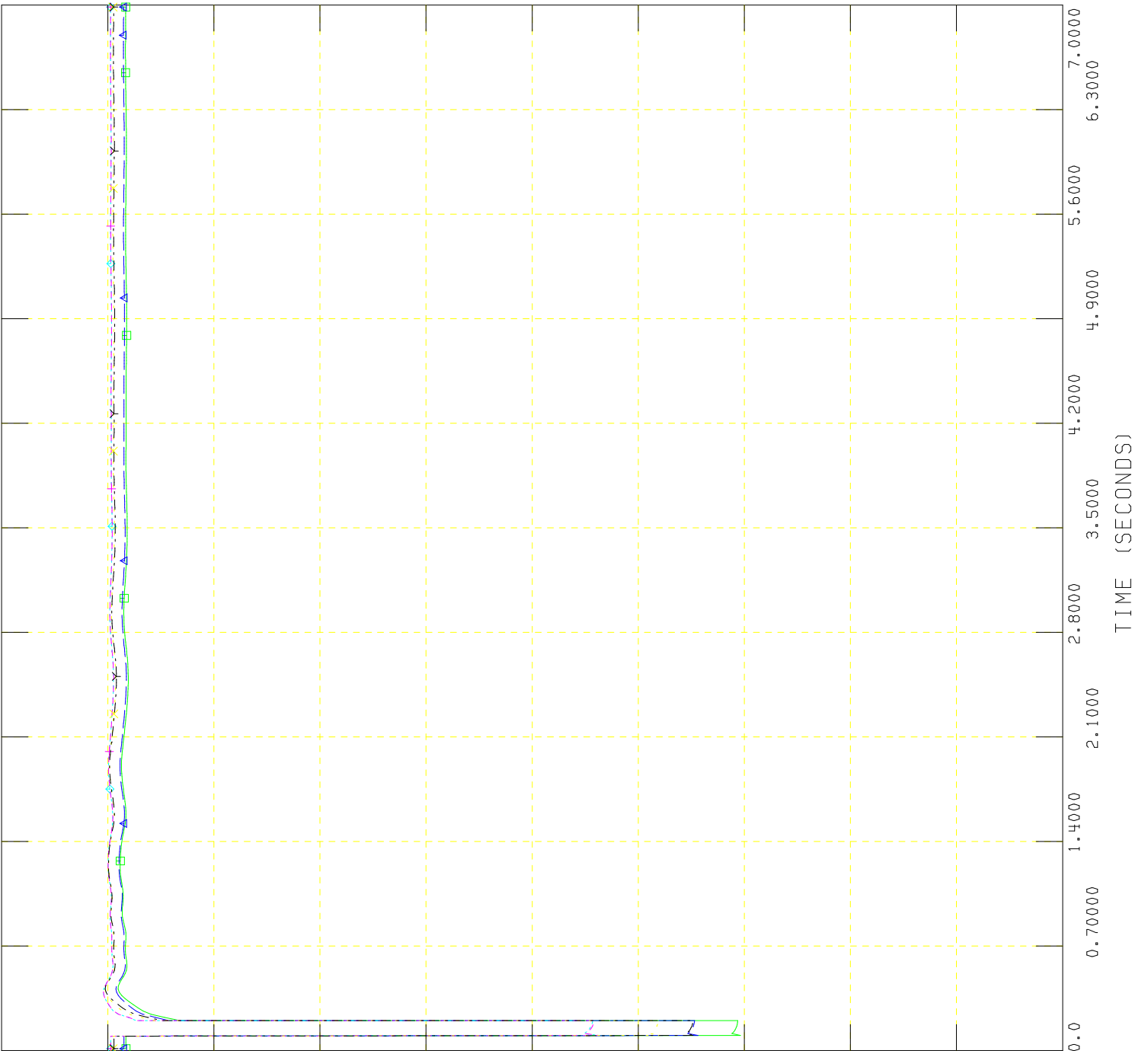
FRI, JUN 13 2008 15:06  
BUS VOLTAGES - 06



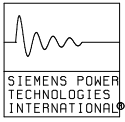
LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



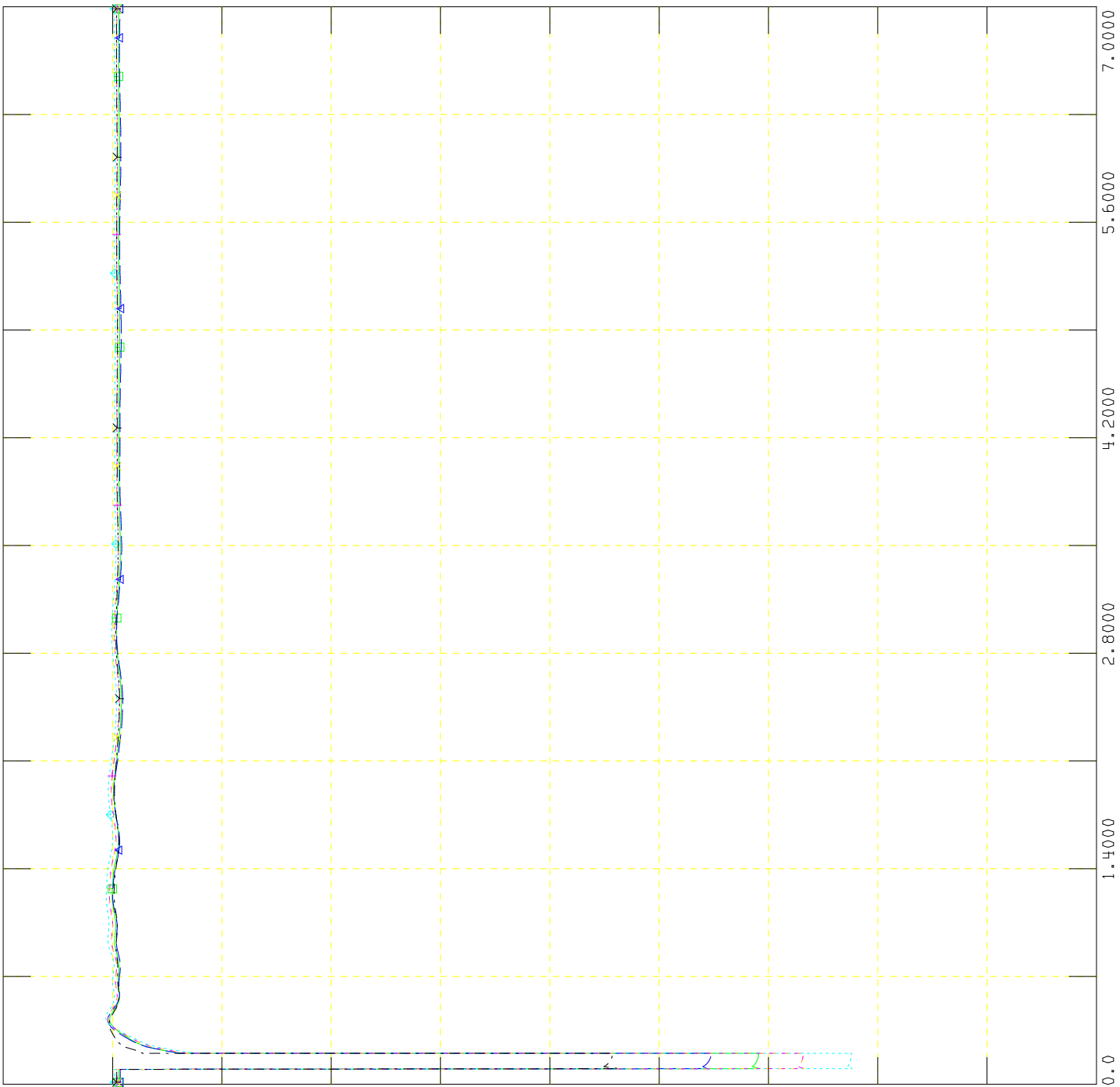
FRI, JUN 13 2008 15:06  
BUS VOLTAGES - 07



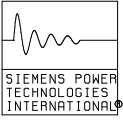
LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

Channel	Label	Value
CHNL# 111	[VOLT 334109 [4DRYCRK 138.00]]	138.00
CHNL# 110	[VOLT 334108 [4JEFCO 138.00]]	138.00
CHNL# 109	[VOLT 334107 [5L523T58 138.00]]	138.00
CHNL# 108	[VOLT 334106 [4CONAIR 138.00]]	138.00
CHNL# 107	[VOLT 334105 [4WDHAVN 138.00]]	138.00
CHNL# 106	[VOLT 334104 [4CONROE 138.00]]	138.00



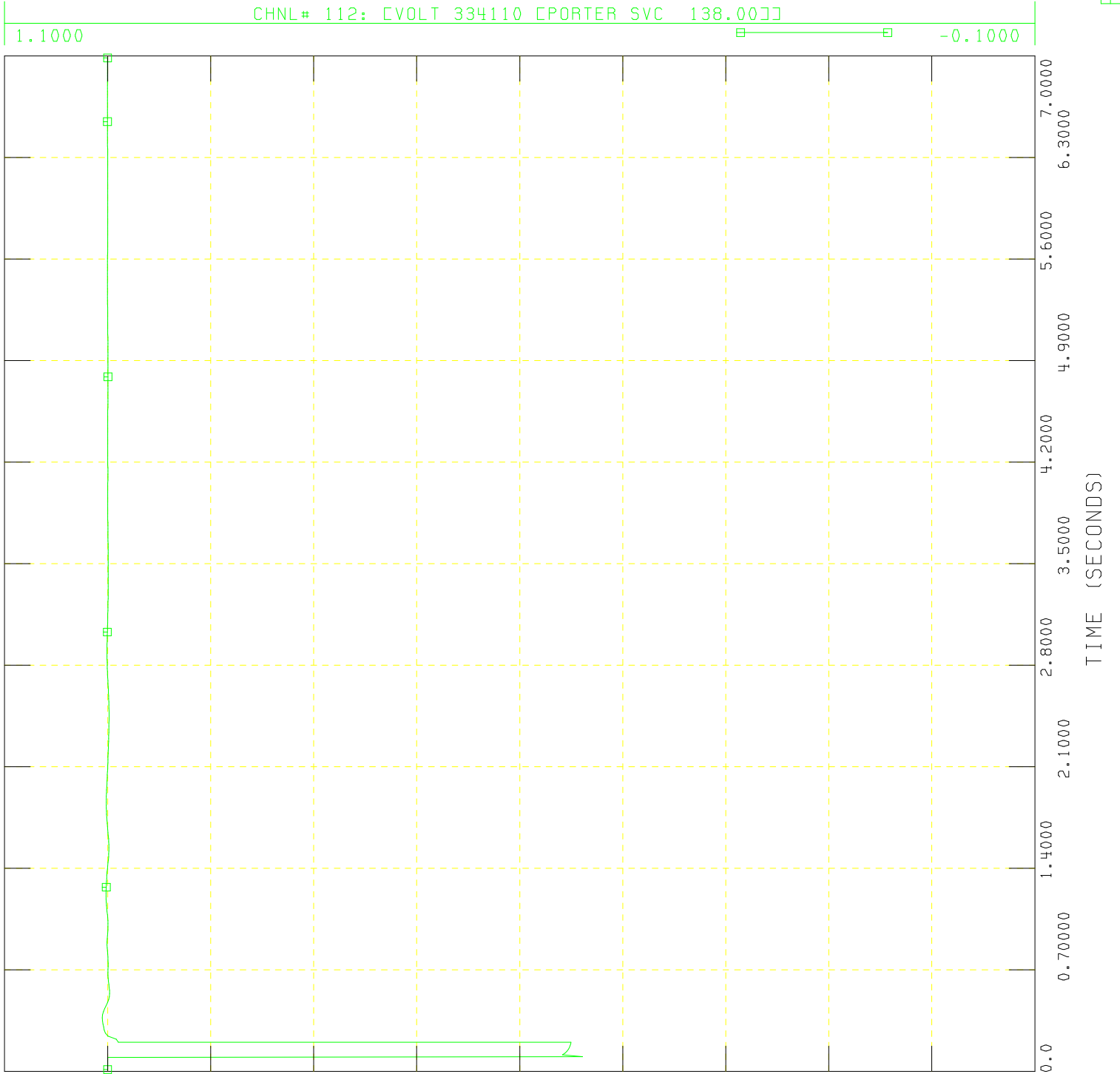
FRI, JUN 13 2008 15:06  
BUS VOLTAGES - 08



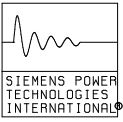
LC  
LC-GENST1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenST1-5.out

FRI, JUN 13 2008 15:06  
BUS VOLTAGES - 09



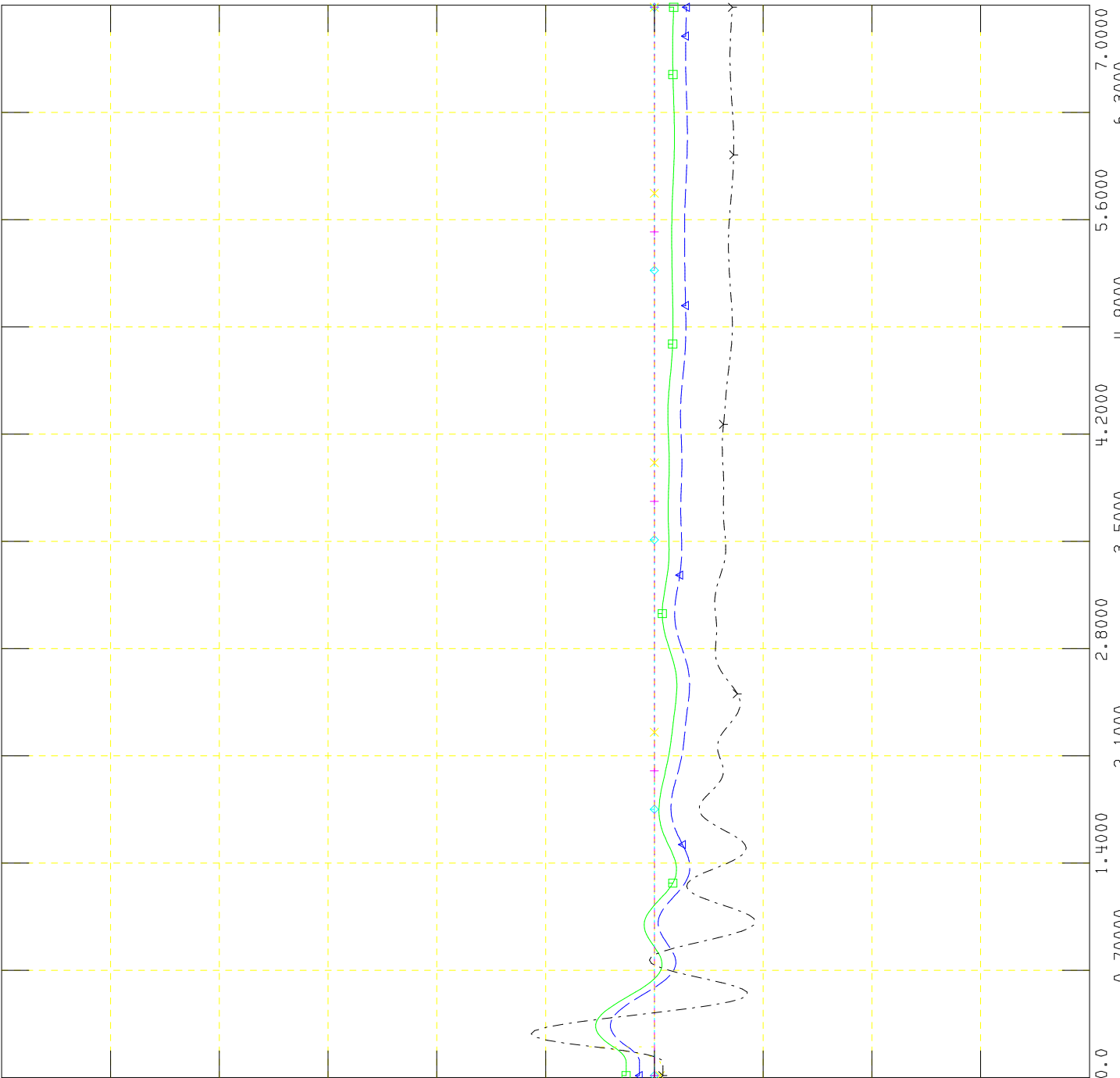
**FAULT G4**  
**Lewis Creek 138 kV (Drop Unit 1)**  
**Normal Clearing Times**



LC  
 LC-GENUNIT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
150.00	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
150.00	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
150.00	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
150.00	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
150.00	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



FRI, JUN 13 2008 15:08  
 MACHINE ANGLES - 01

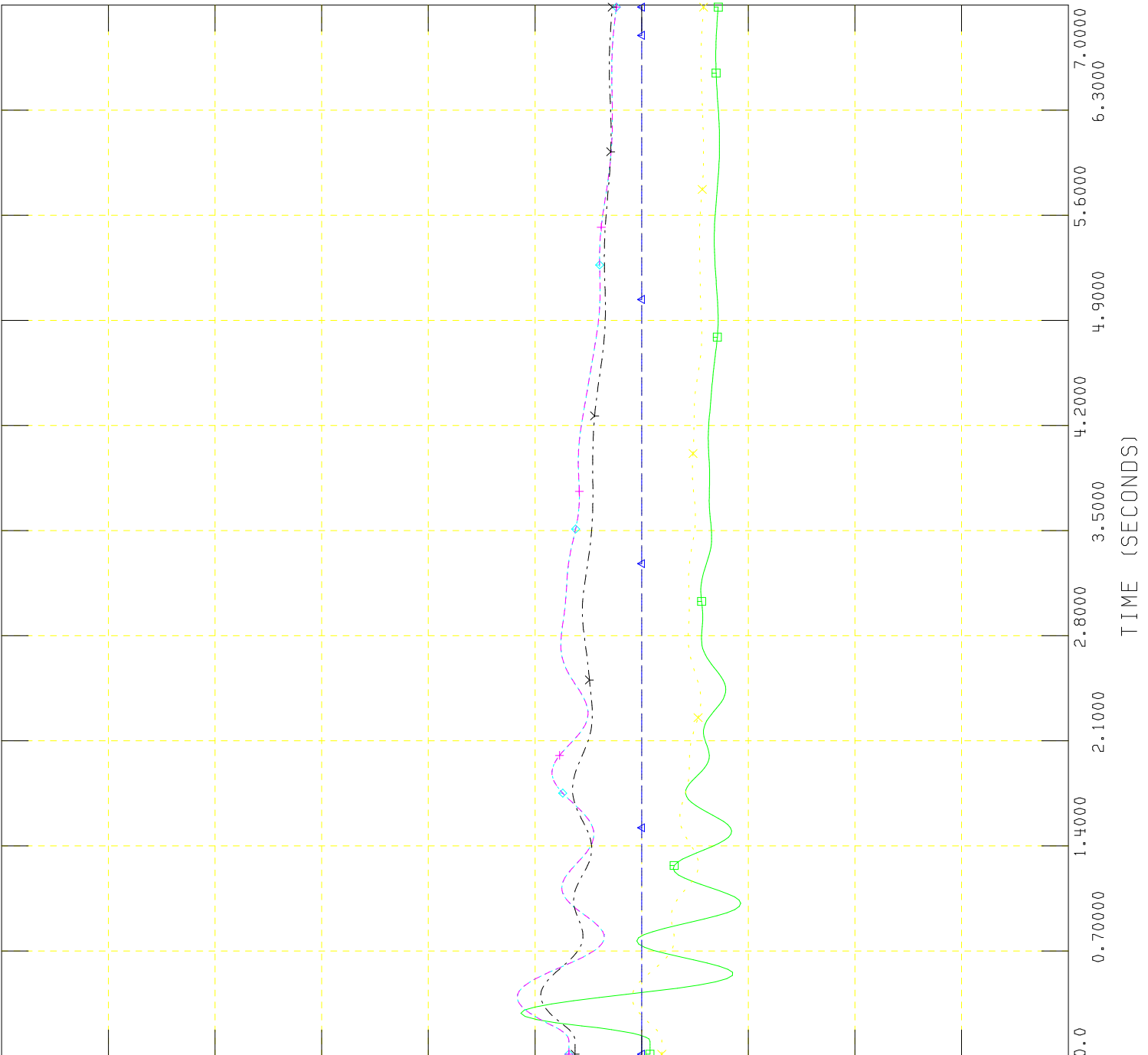




LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

Channel	Label	Value
11	CHANL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
10	CHANL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
9	CHANL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
8	CHANL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
7	CHANL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
6	CHANL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

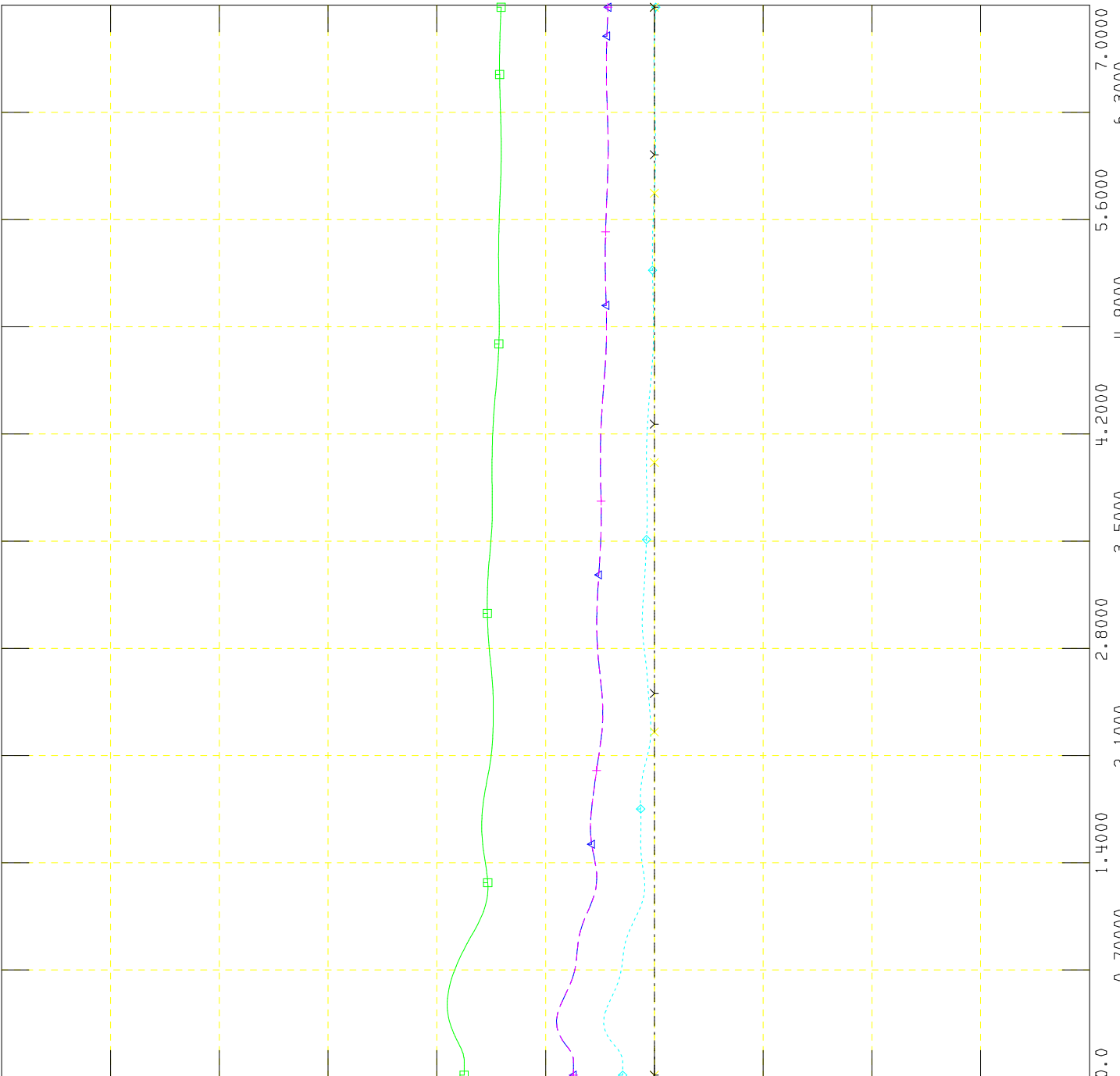
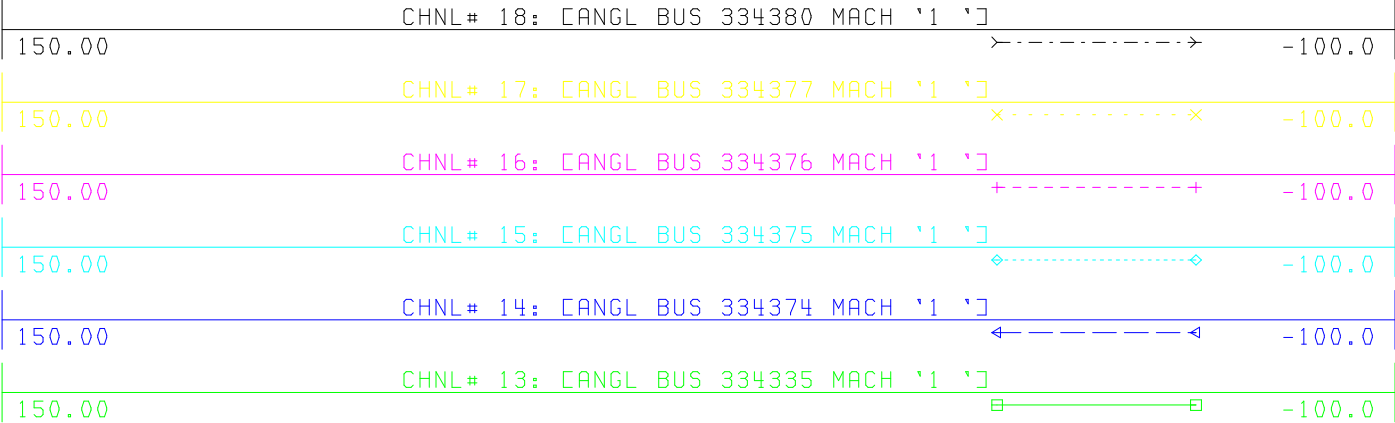


FRI, JUN 13 2008 15:08  
MACHINE ANGLES - 02



LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out



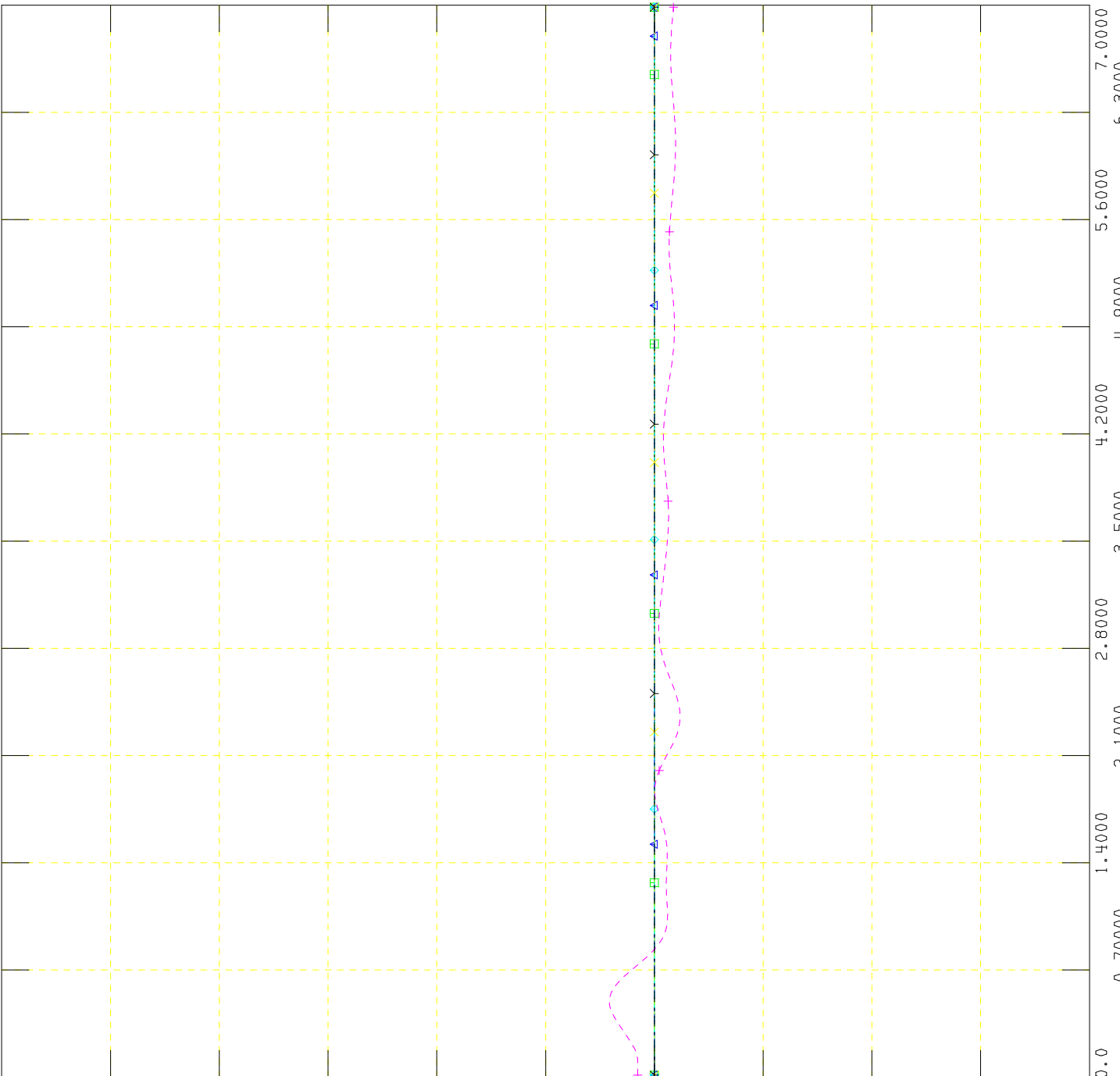
FRI, JUN 13 2008 15:08  
MACHINE ANGLES - 03



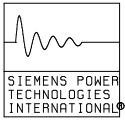
LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



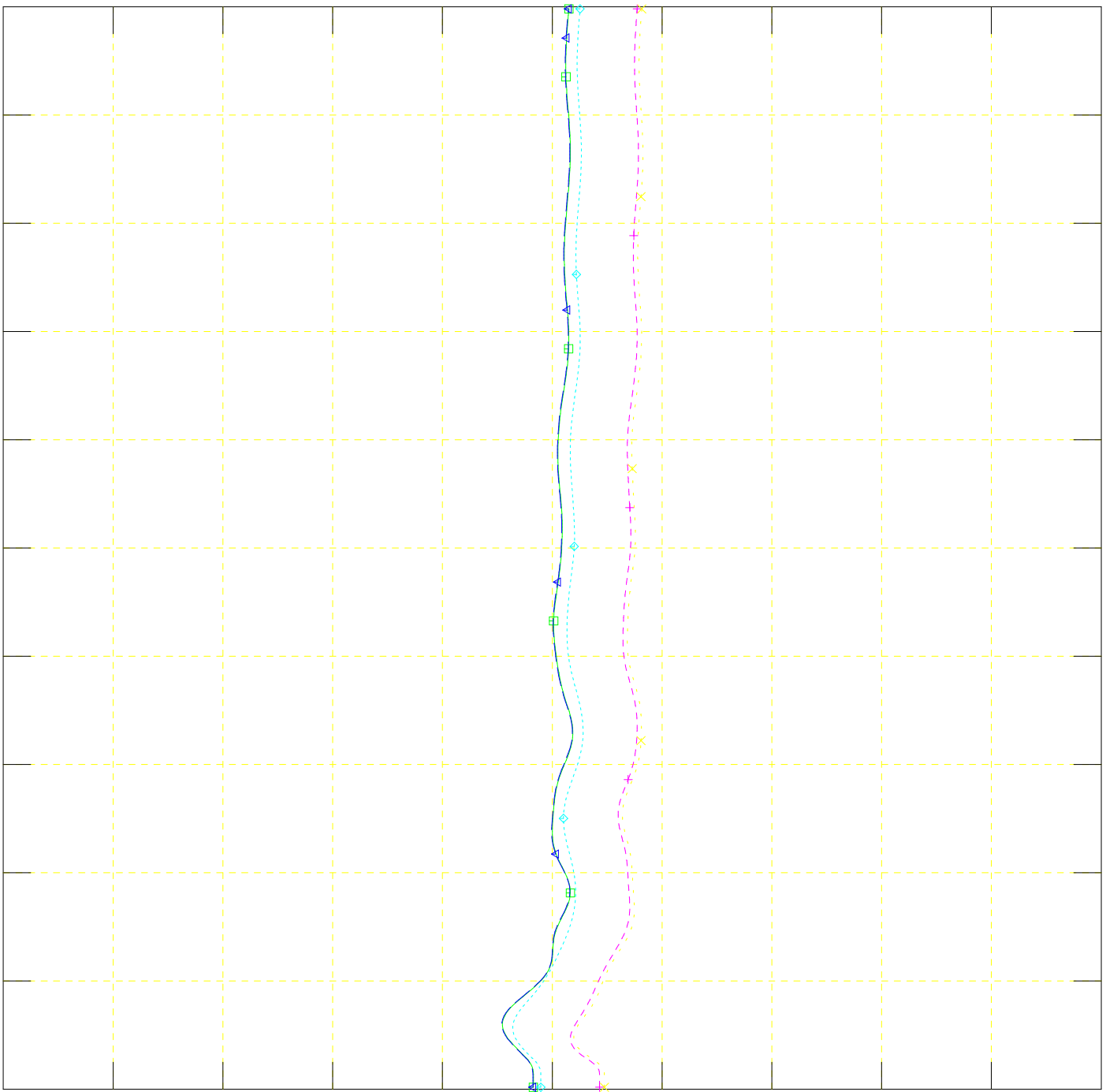
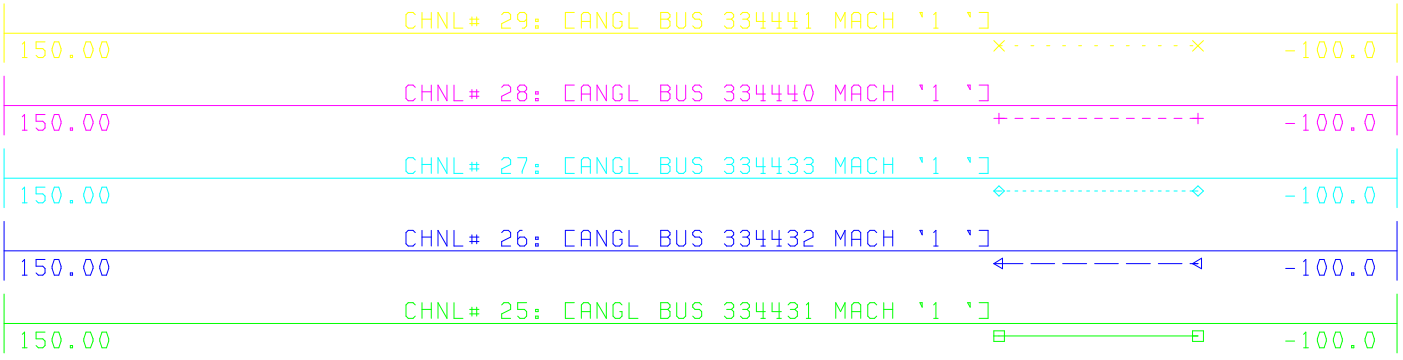
FRI, JUN 13 2008 15:08  
MACHINE ANGLES - 04

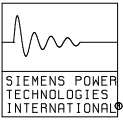


LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

FRI, JUN 13 2008 15:08  
MACHINE ANGLES - 05

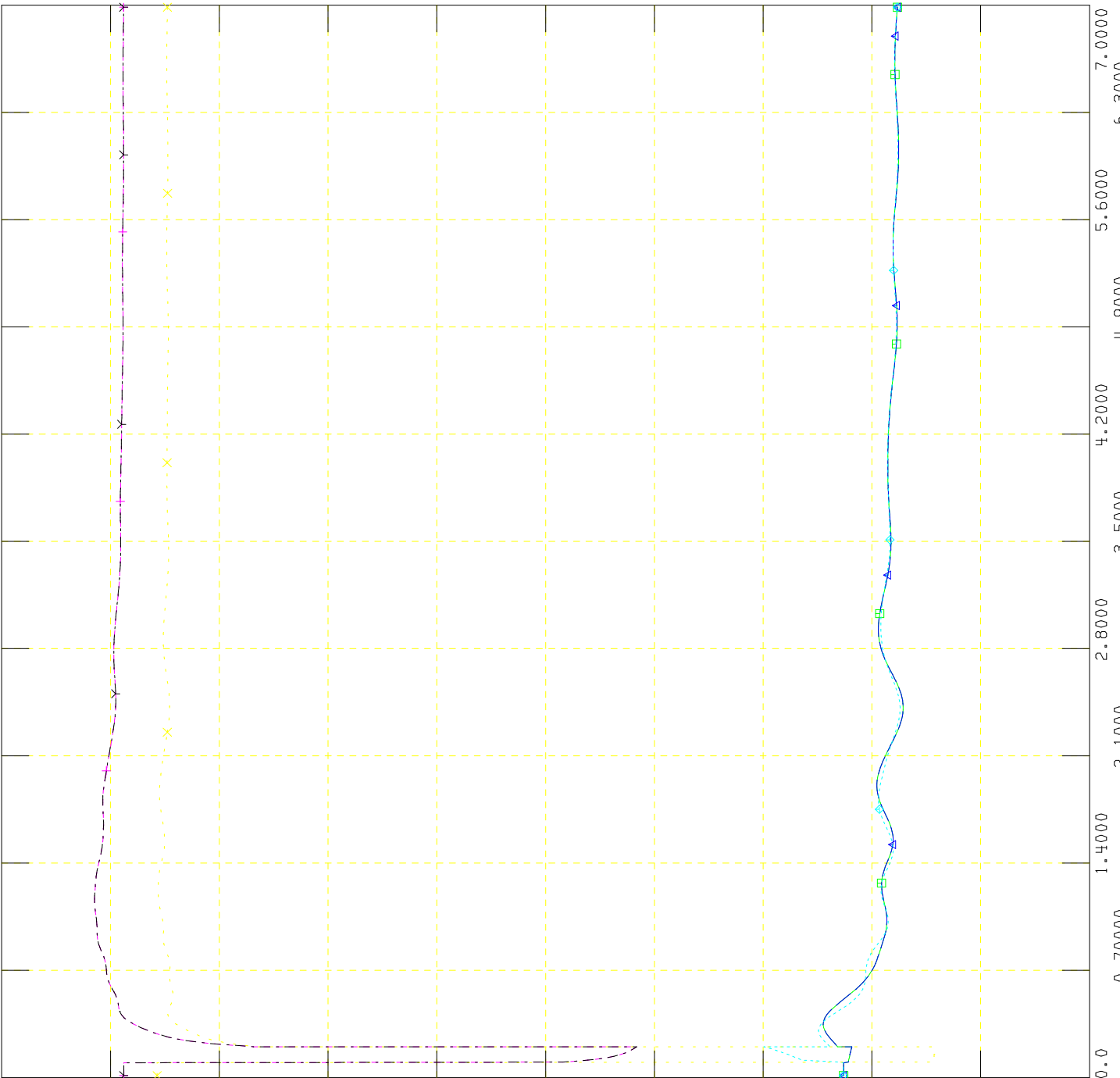




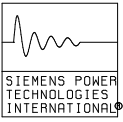
LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



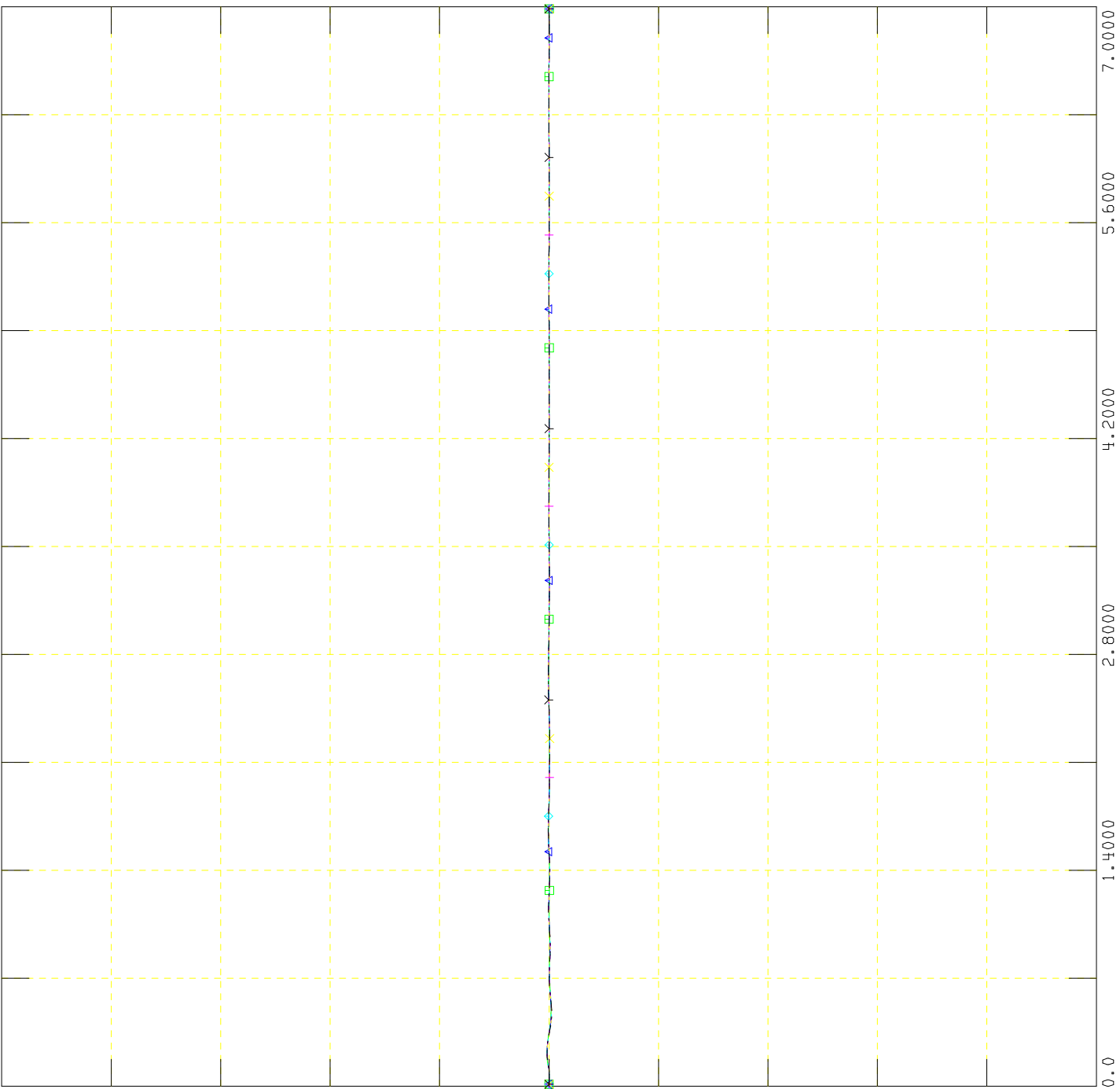
FRI, JUN 13 2008 15:08  
ANG & VOLT - PID-211 GENS



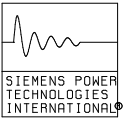
LC  
 LC-GENUNIT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

0.50000	CHNL# 41: [FREQ 334065 [4LACON 138.00]]	-0.50000
0.50000	CHNL# 40: [FREQ 334064 [8LNG 413 138.00]]	-0.50000
0.50000	CHNL# 39: [FREQ 334063 [4EVGRN* 138.00]]	-0.50000
0.50000	CHNL# 38: [FREQ 334062 [4TEMCO 138.00]]	-0.50000
0.50000	CHNL# 37: [FREQ 334061 [4GOREE 138.00]]	-0.50000
0.50000	CHNL# 36: [FREQ 334060 [4MT.ZION 138.00]]	-0.50000



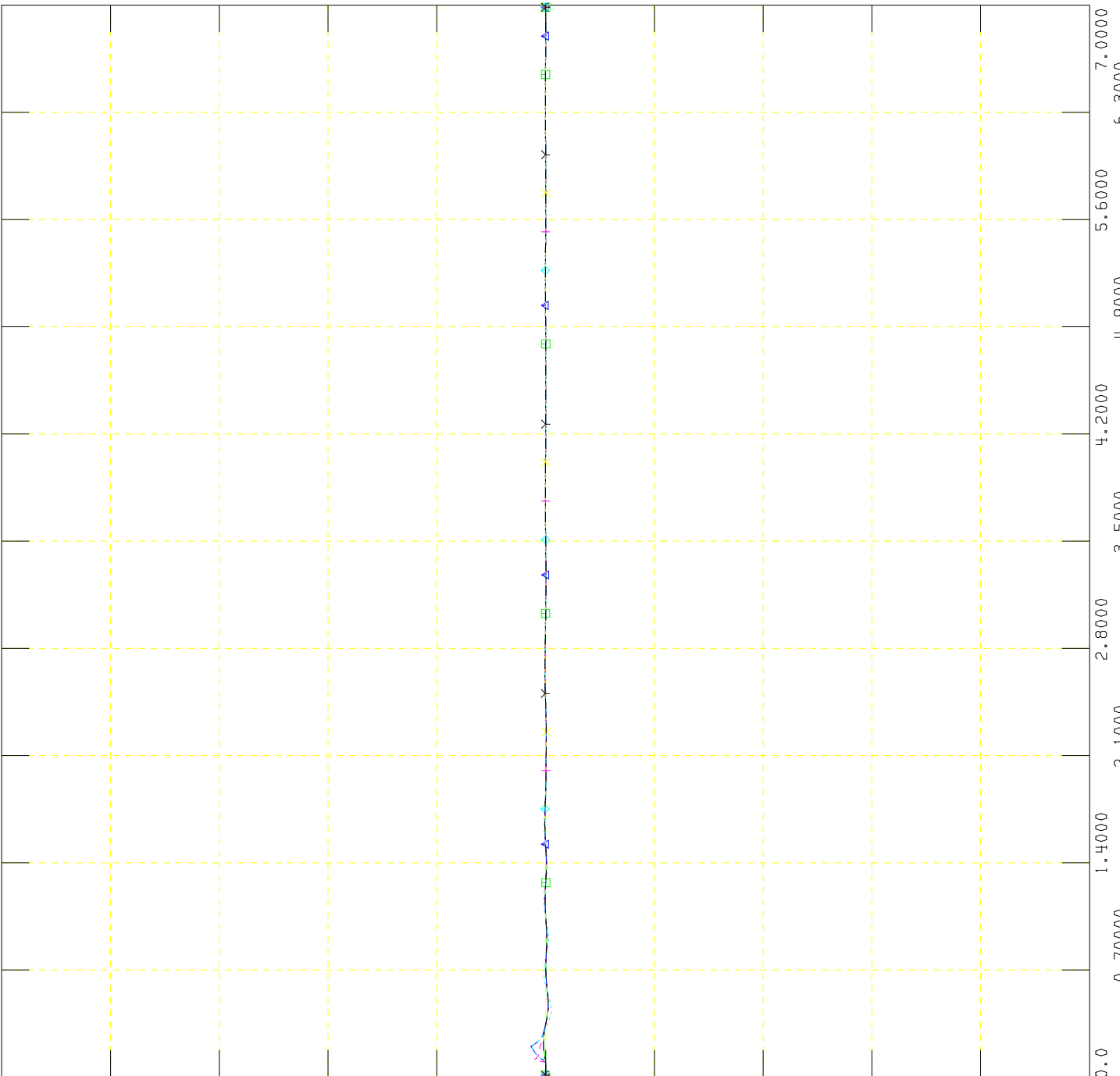
FRI, JUN 13 2008 15:08  
 MACHINE FREQUENCIES - 01



LC  
 LC-GENUNIT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

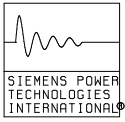
FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



FRI, JUN 13 2008 15:08  
 MACHINE FREQUENCIES - 02

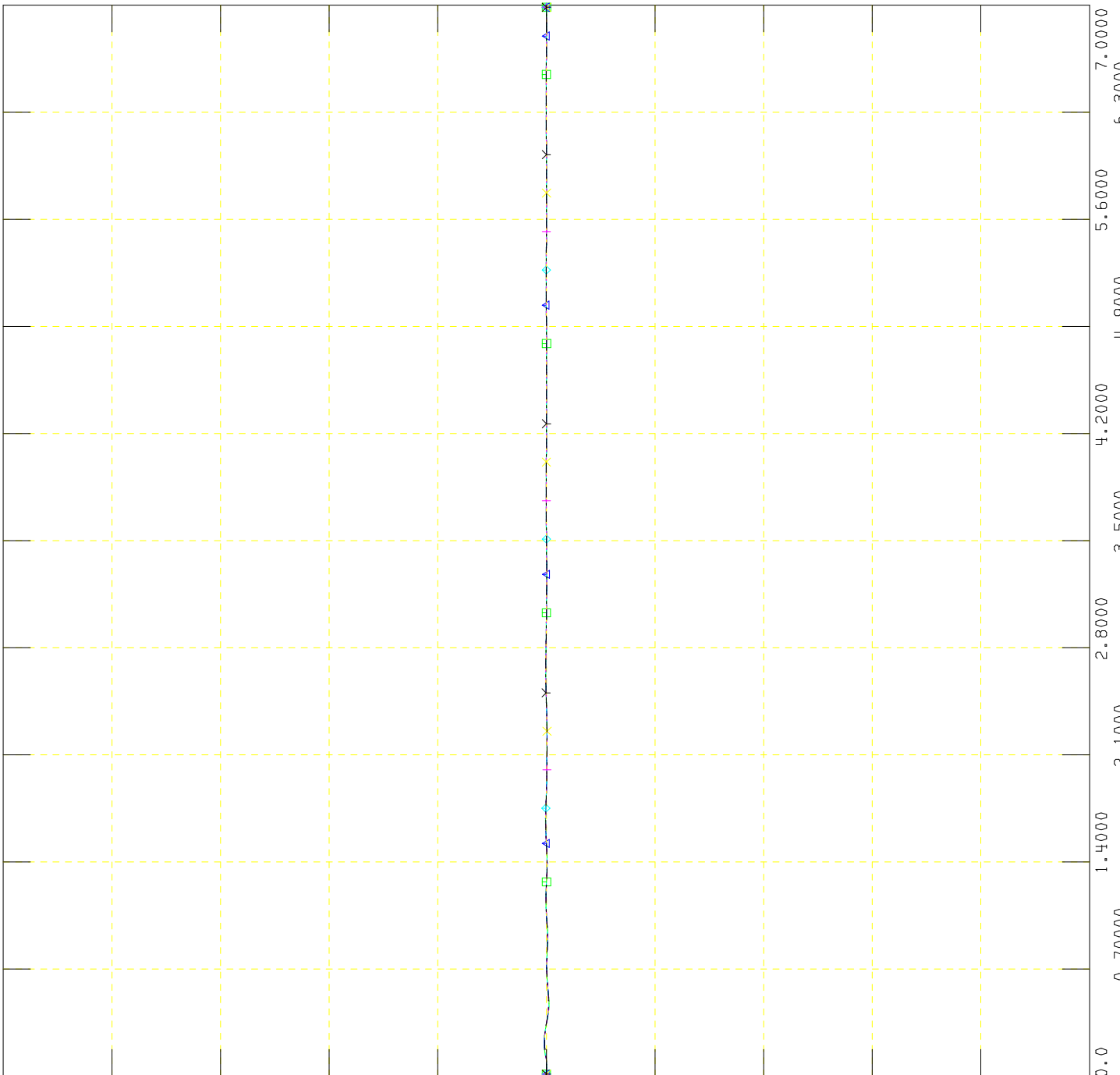
TIME (SECONDS)



LC  
 LC-GENUNIT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



FRI, JUN 13 2008 15:08  
 MACHINE FREQUENCIES - 03

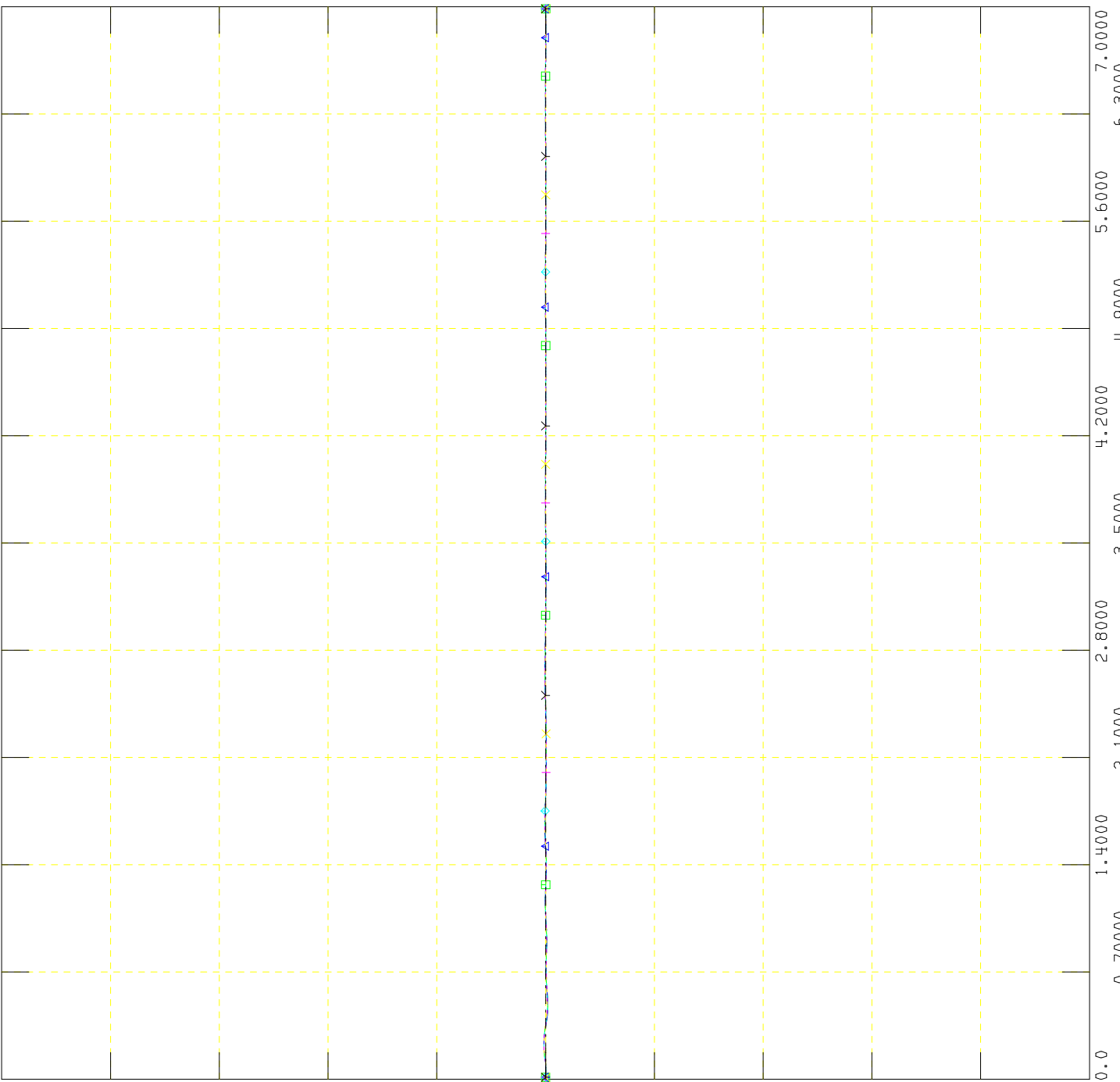
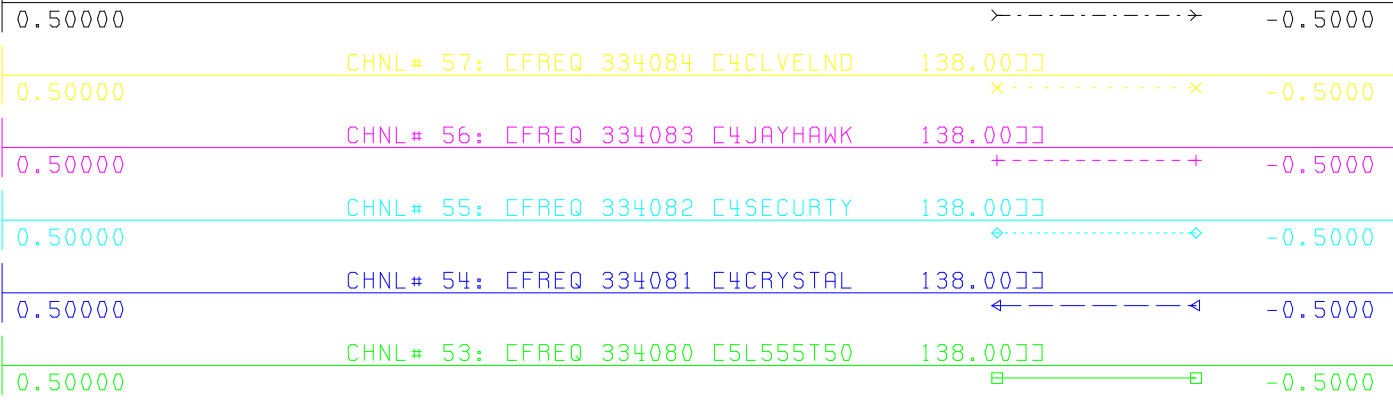




LC  
 LC-GENUNIT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 15:09  
 MACHINE FREQUENCIES - 04

TIME (SECONDS)

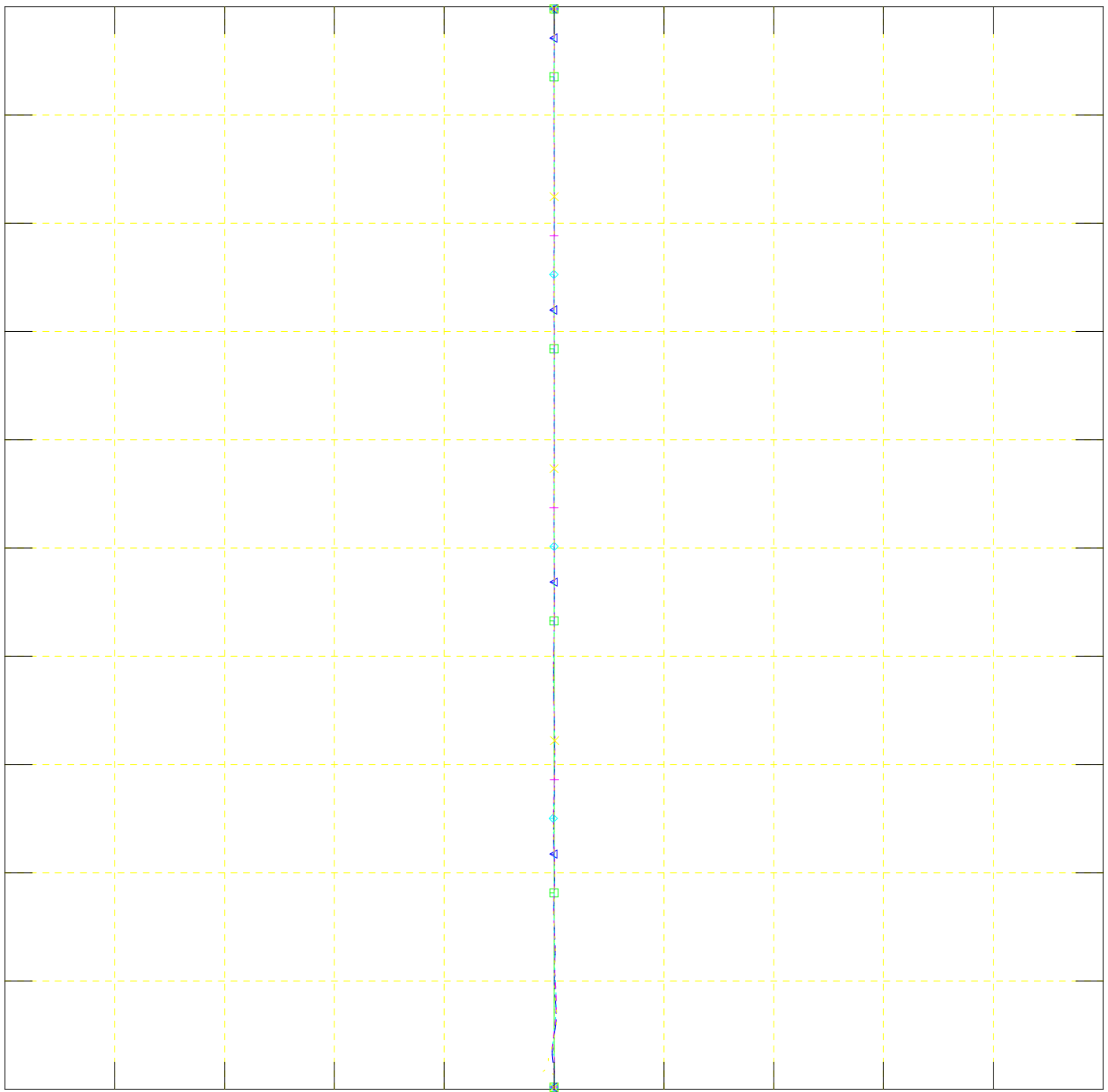


LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

FRI, JUN 13 2008 15:09  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value	Symbol
CHNL# 63	CFREQ 99183 [G3PID211	18.000]]	x
CHNL# 62	CFREQ 99182 [G2PID211	18.000]]	+
CHNL# 61	CFREQ 99181 [G1PID211	18.000]]	◇
CHNL# 60	CFREQ 334090 [4ALDEN	138.00]]	△
CHNL# 59	CFREQ 334086 [6CONROE	230.00]]	□



0.50000  
-0.50000  
0.50000  
-0.50000  
0.50000  
-0.50000  
0.50000  
-0.50000

7.0000  
6.3000  
5.6000  
4.9000  
4.2000  
3.5000  
2.8000  
2.1000  
1.4000  
0.70000  
0.0

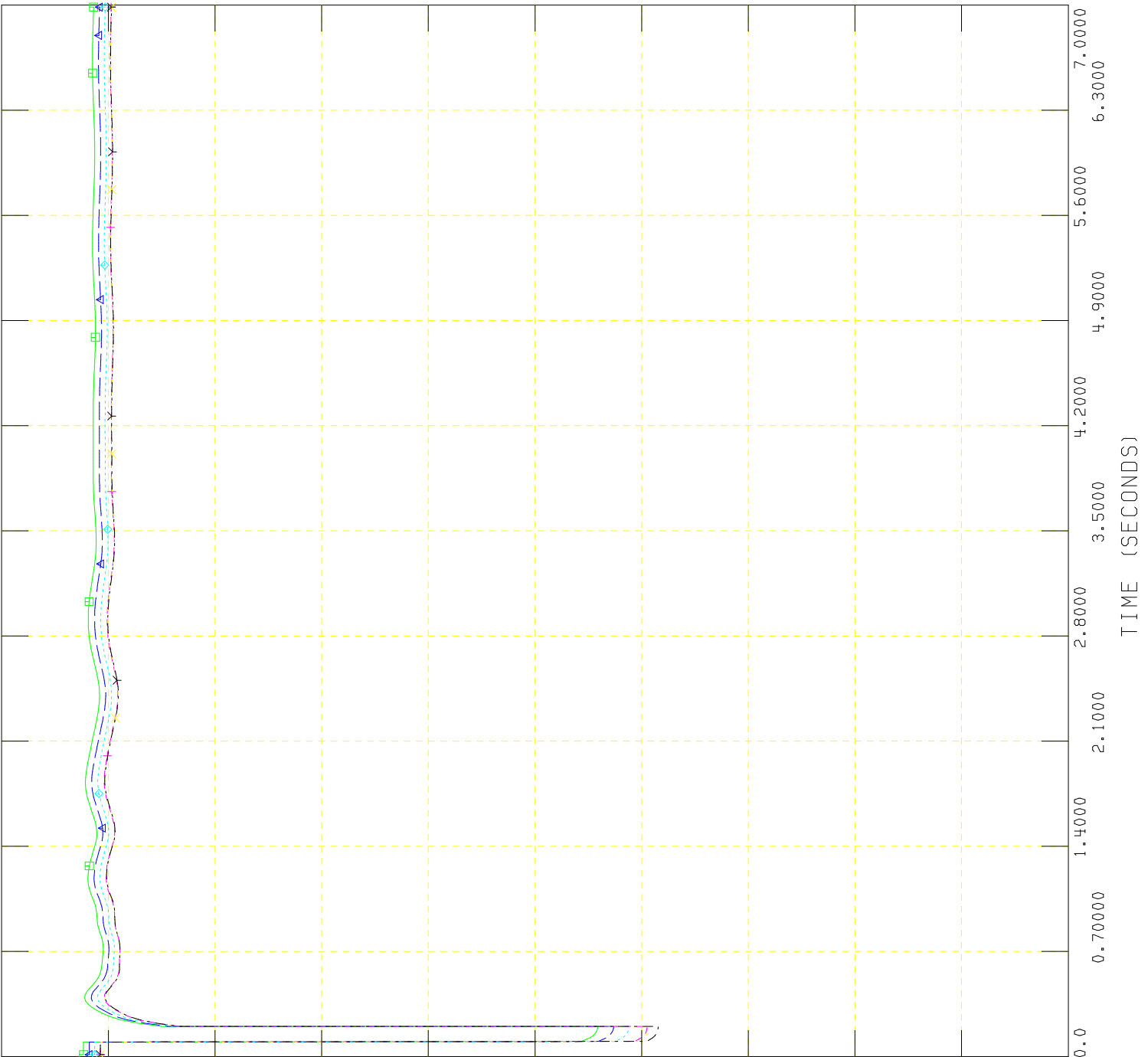
TIME (SECONDS)



LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



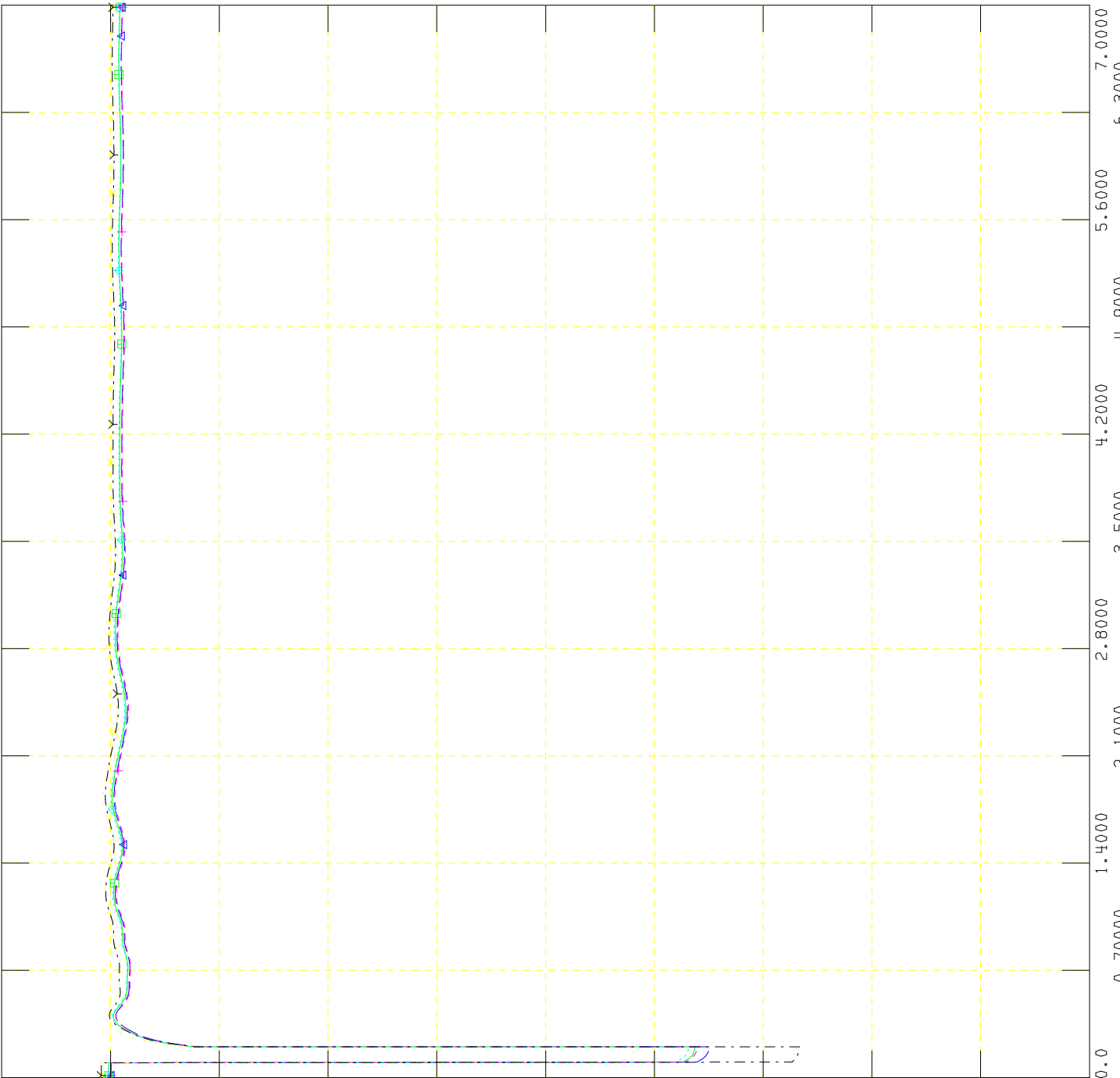
FRI, JUN 13 2008 15:09  
BUS VOLTAGES - 01



LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



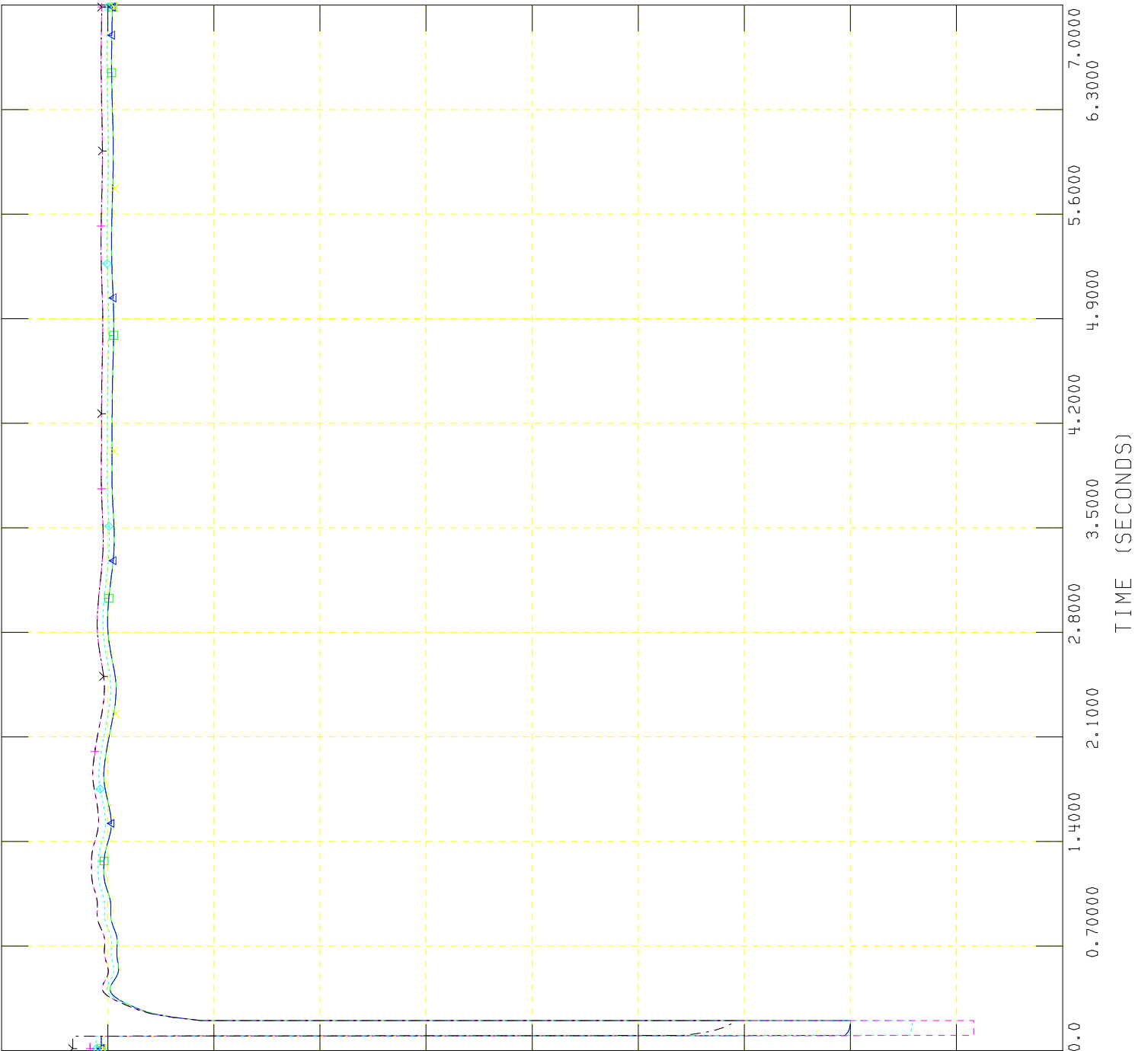
FRI, JUN 13 2008 15:09  
BUS VOLTAGES - 02



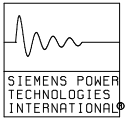
LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

Time (s)	Channel	Value	Unit
1.1000	CHNL# 81: EVOLT 334070 [G1LEWIS	22.000]]	
1.1000	CHNL# 80: EVOLT 334066 [4GEORGIA	138.00]]	
1.1000	CHNL# 79: EVOLT 334065 [4LACON	138.00]]	
1.1000	CHNL# 78: EVOLT 334064 [8LNG 413	138.00]]	
1.1000	CHNL# 77: EVOLT 334063 [4EVGRN*	138.00]]	
1.1000	CHNL# 76: EVOLT 334062 [4TEMCO	138.00]]	



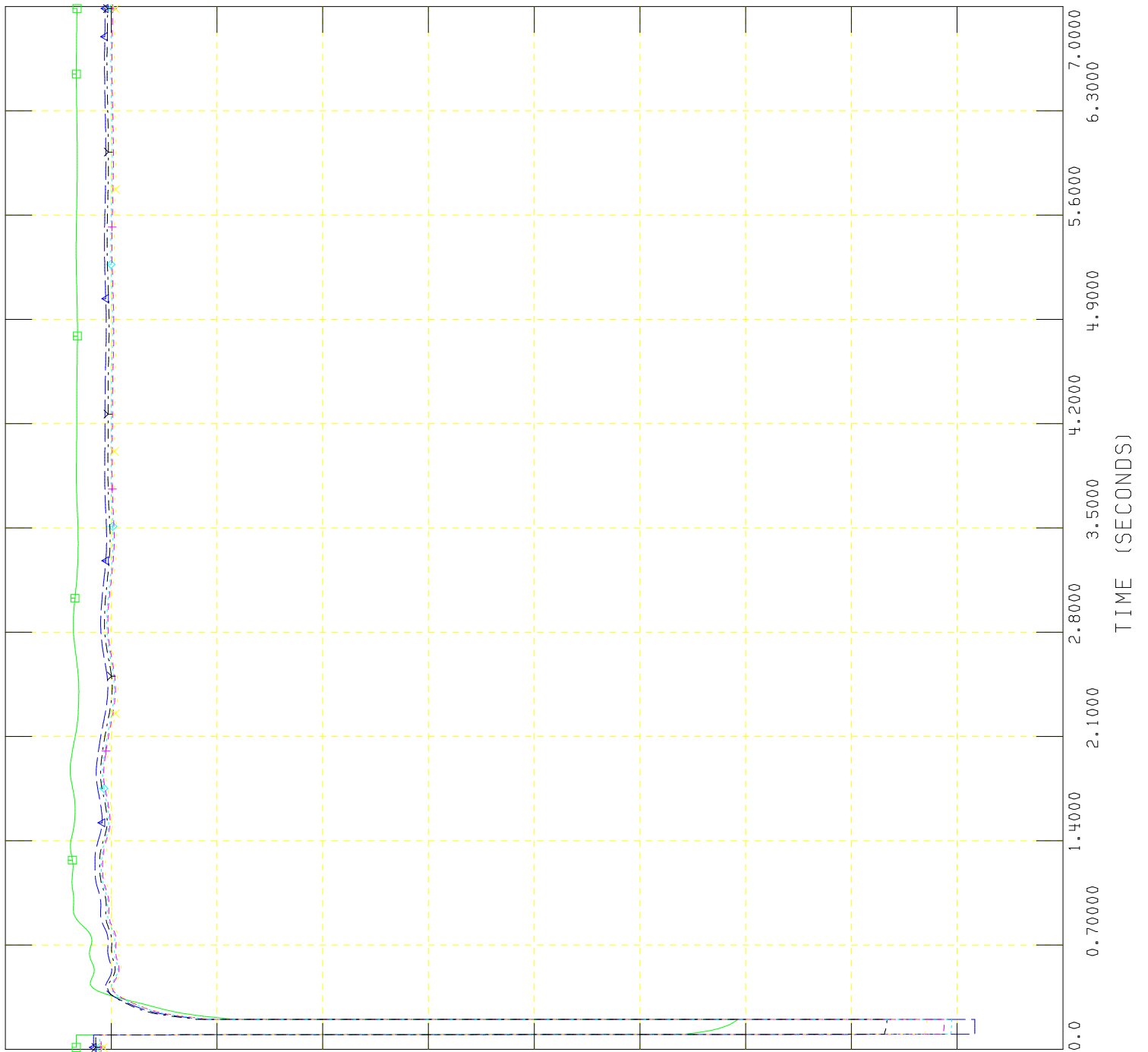
FRI, JUN 13 2008 15:09  
BUS VOLTAGES - 03



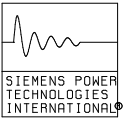
LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



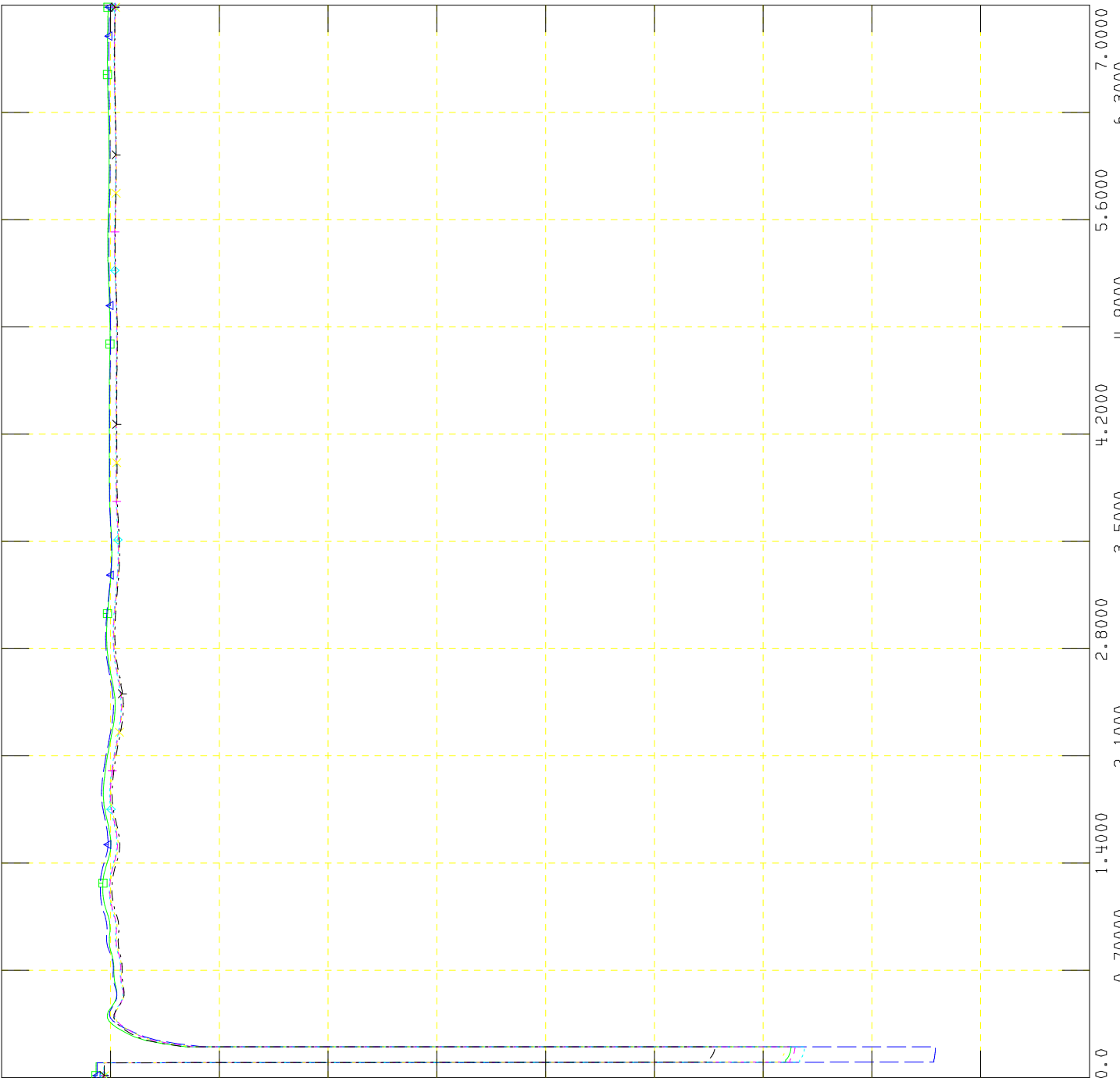
FRI, JUN 13 2008 15:09  
BUS VOLTAGES - 04



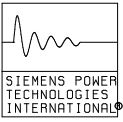
LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



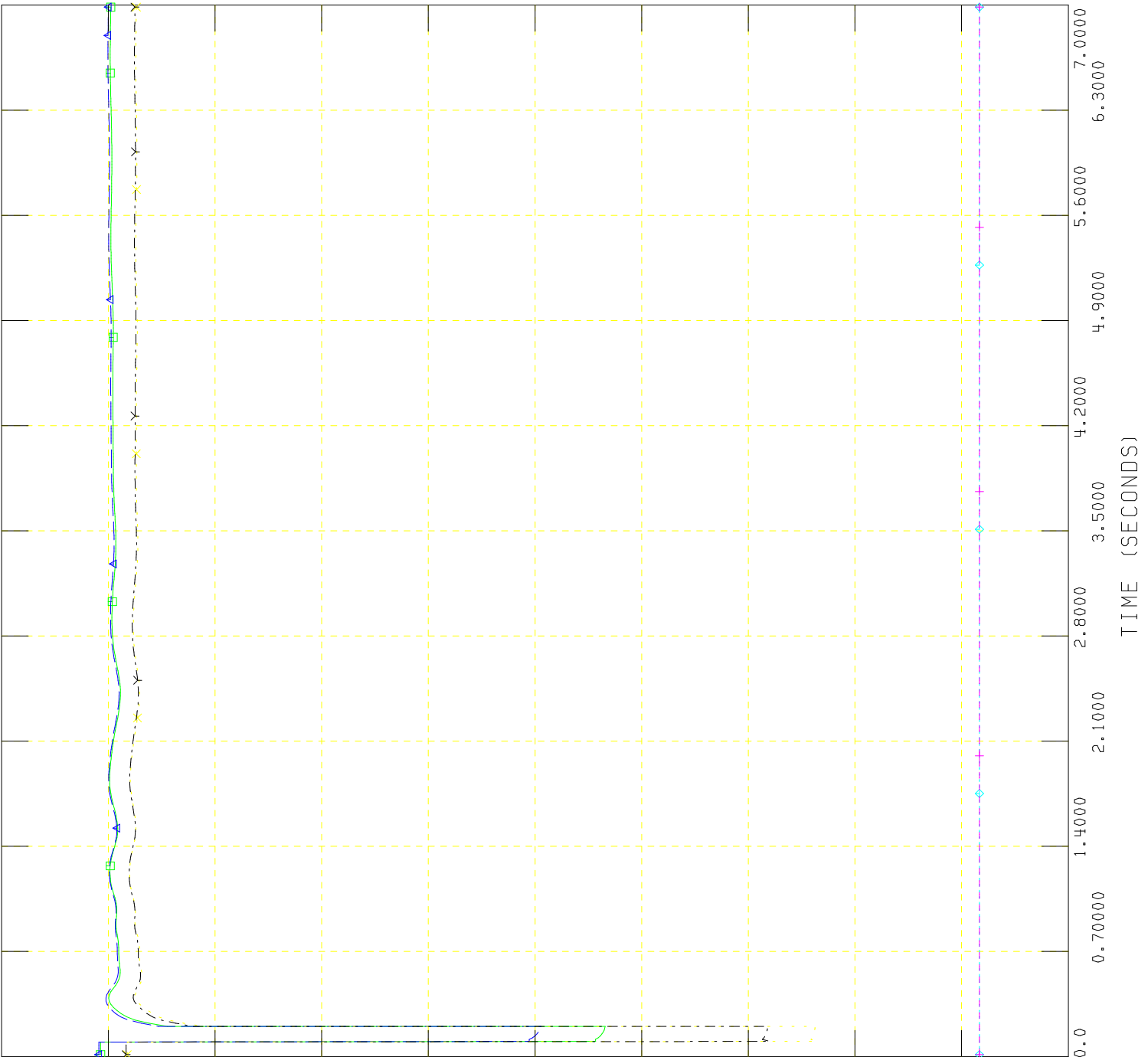
FRI, JUN 13 2008 15:09  
BUS VOLTAGES - 05



LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

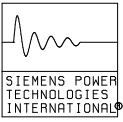
FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



FRI, JUN 13 2008 15:09  
BUS VOLTAGES - 06

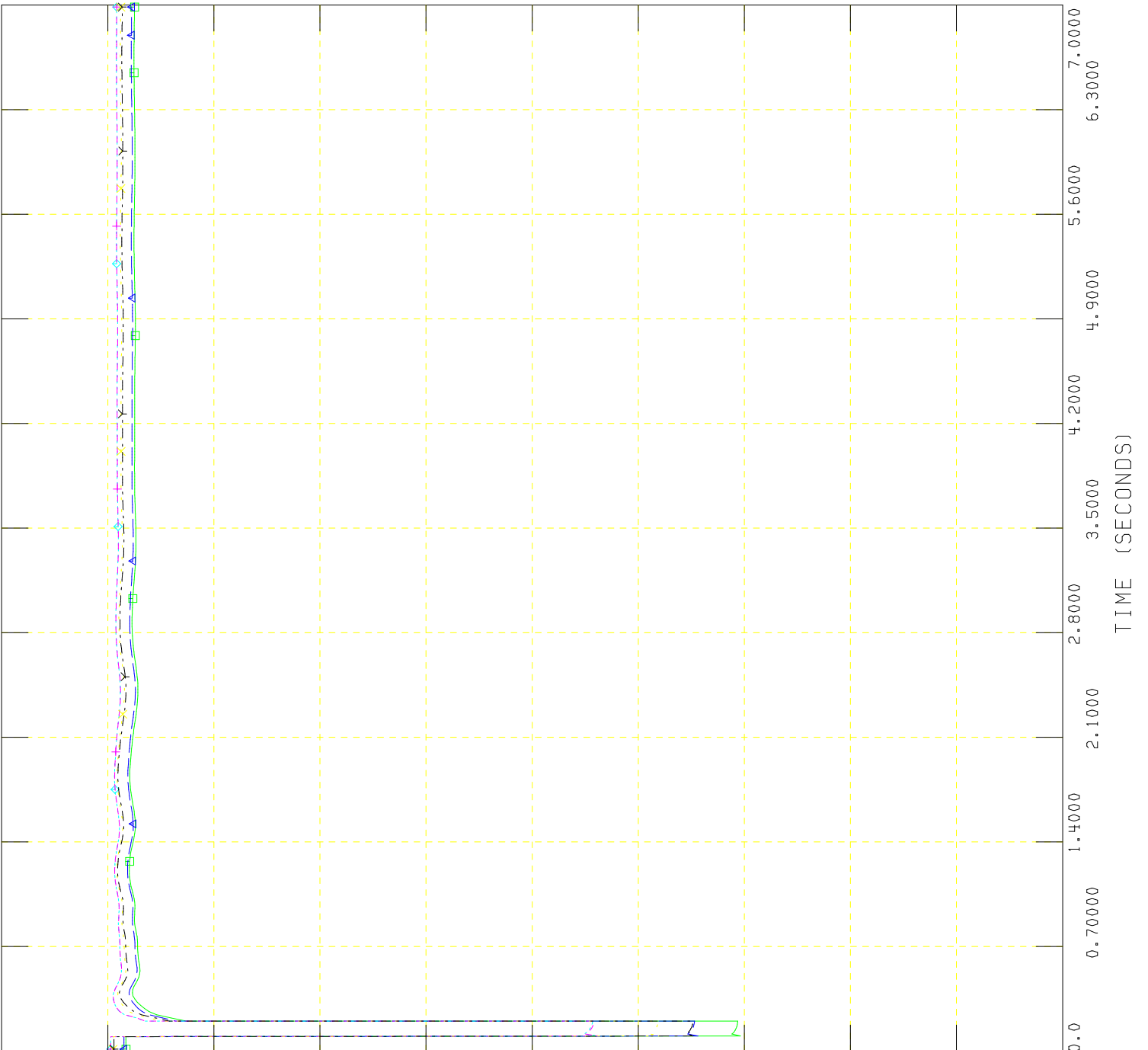




LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

Channel	Label	Value
1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



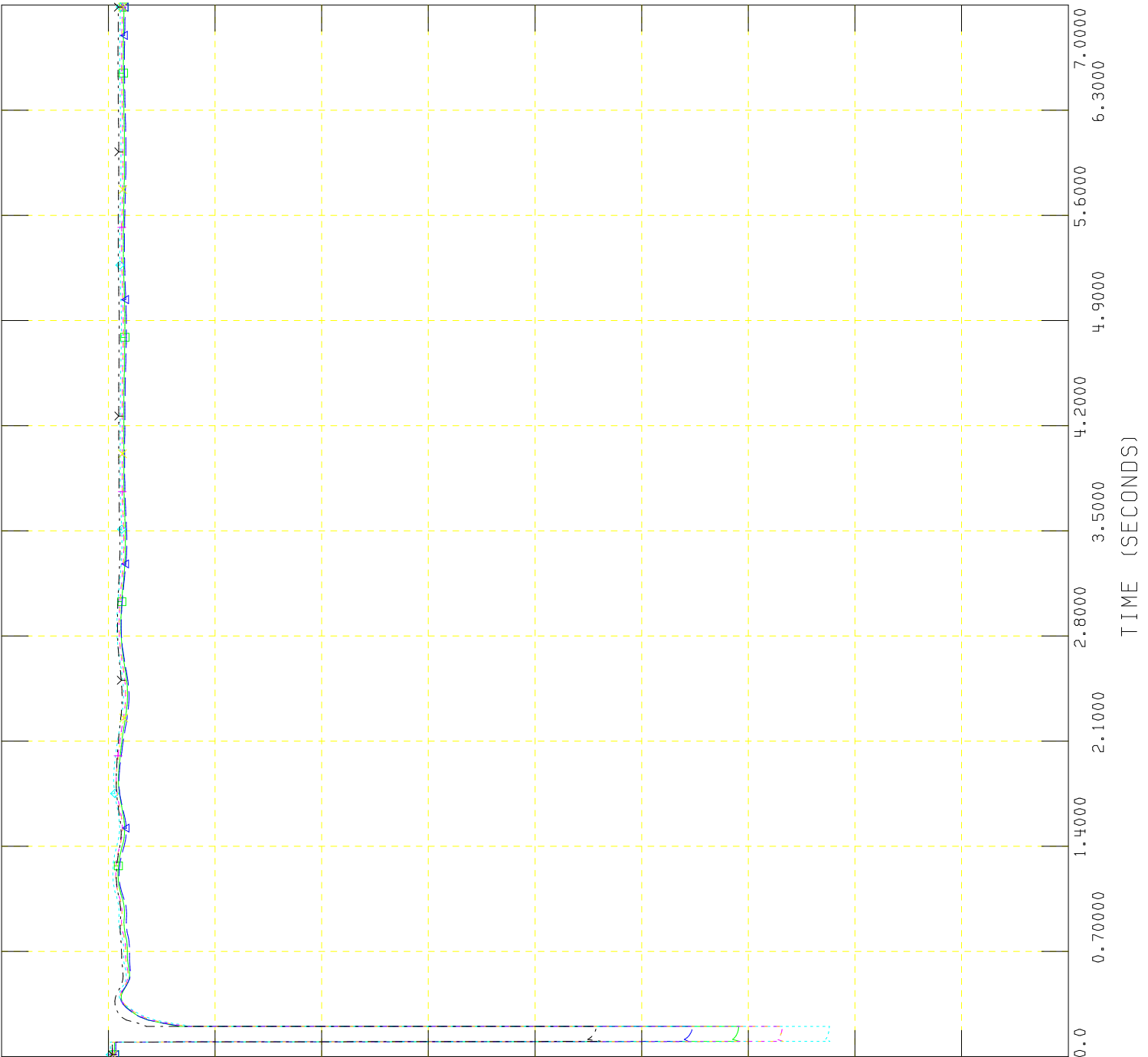
FRI, JUN 13 2008 15:09  
BUS VOLTAGES - 07



LC  
 LC-GENUNIT1  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



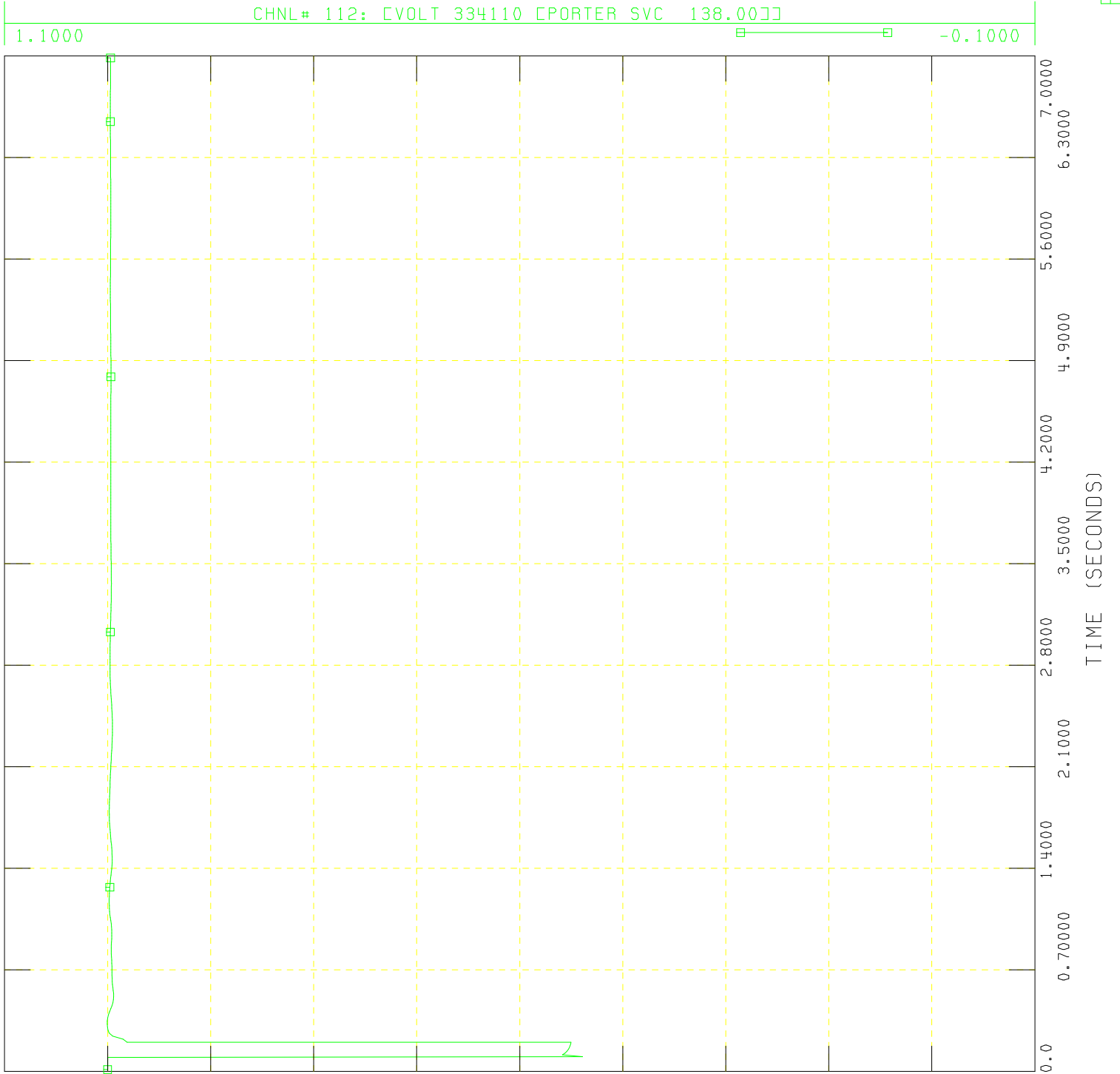
FRI, JUN 13 2008 15:09  
 BUS VOLTAGES - 08



LC  
LC-GENUNIT1  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit1-1.out

FRI, JUN 13 2008 15:09  
BUS VOLTAGES - 09



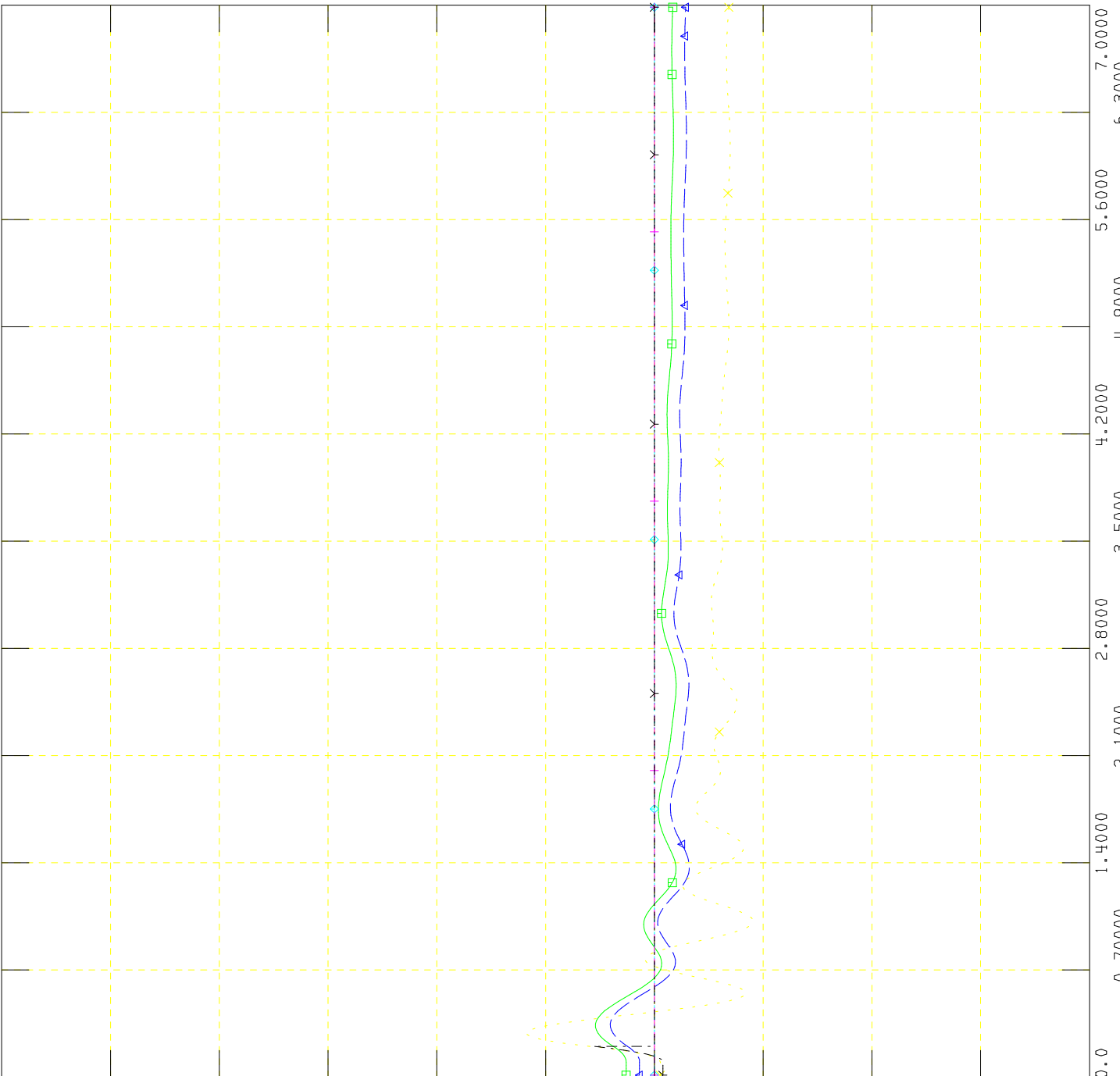
**FAULT G5**  
**Lewis Creek 138 kV (Drop Unit 2)**  
**Normal Clearing Times**



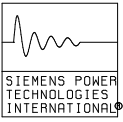
LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

Channel	Label	Value
CHNL# 6	[ANGL BUS 334071 MACH '1']	-100.0
CHNL# 5	[ANGL BUS 334070 MACH '1']	-100.0
CHNL# 4	[ANGL BUS 334033 MACH '1']	-100.0
CHNL# 3	[ANGL BUS 334032 MACH '1']	-100.0
CHNL# 2	[ANGL BUS 334031 MACH '1']	-100.0
CHNL# 1	[ANGL BUS 334030 MACH '1']	-100.0

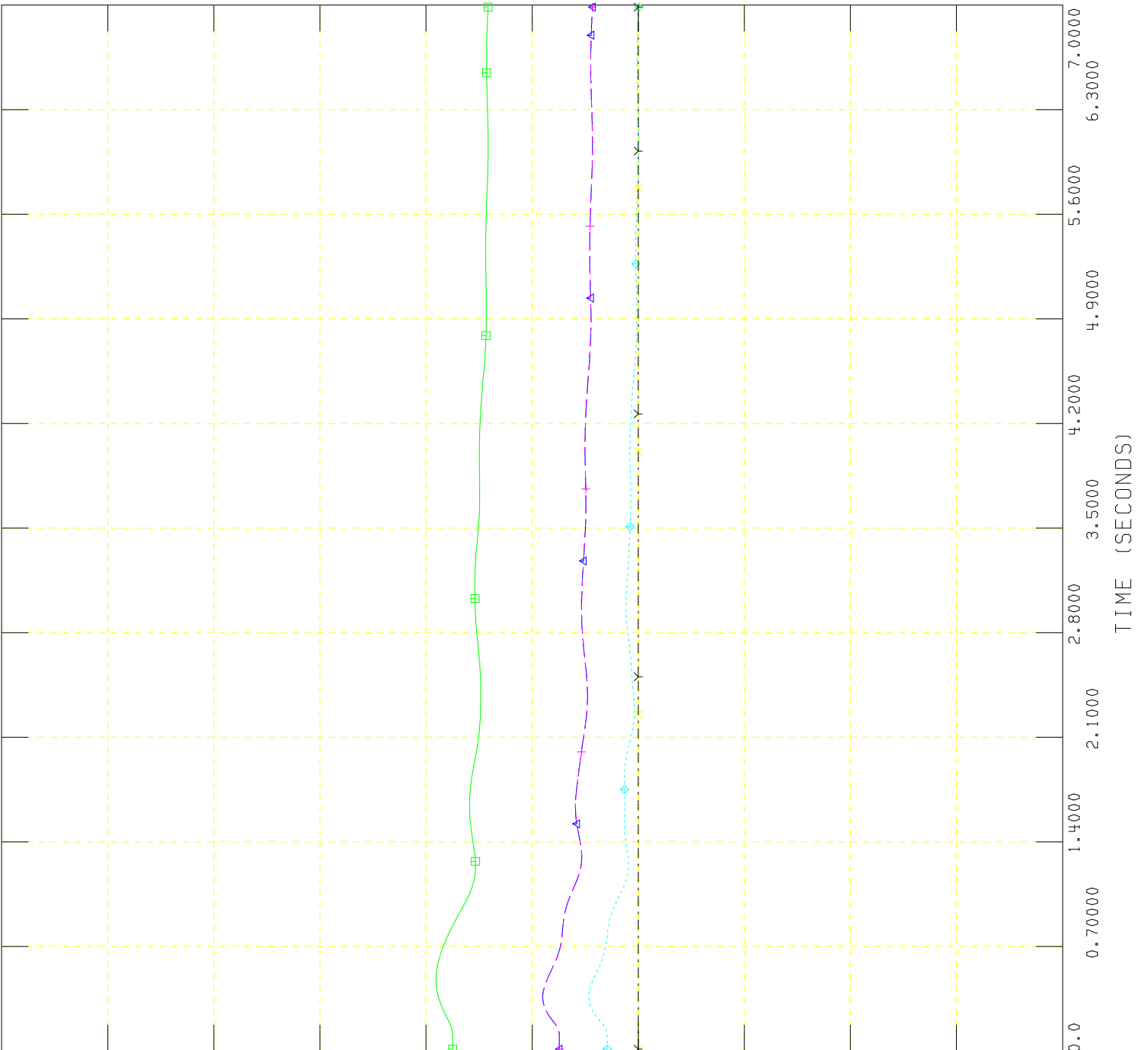
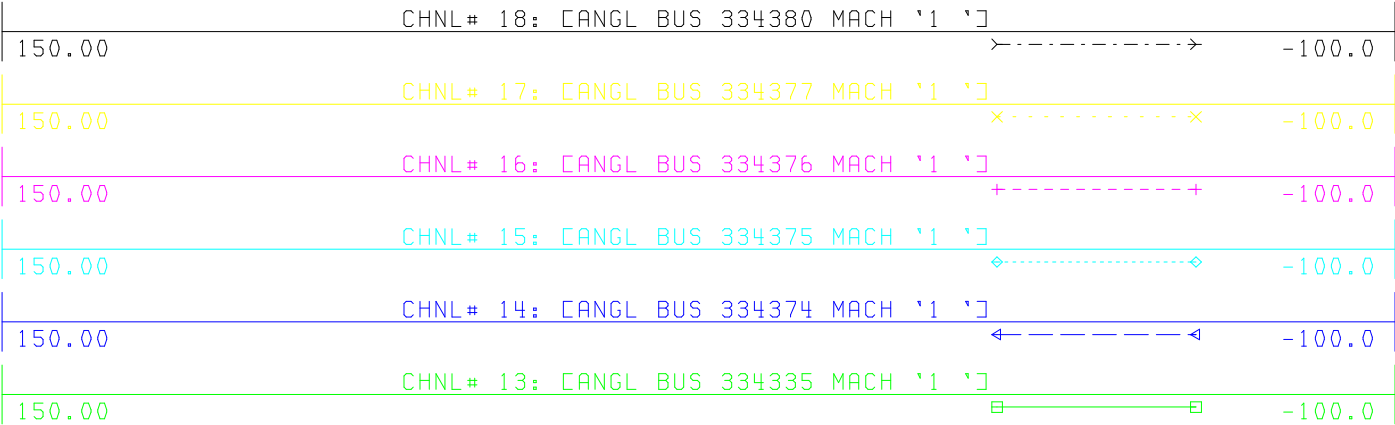


FRI, JUN 13 2008 15:11  
MACHINE ANGLES - 01



LC  
 LC-GENUNIT2  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out



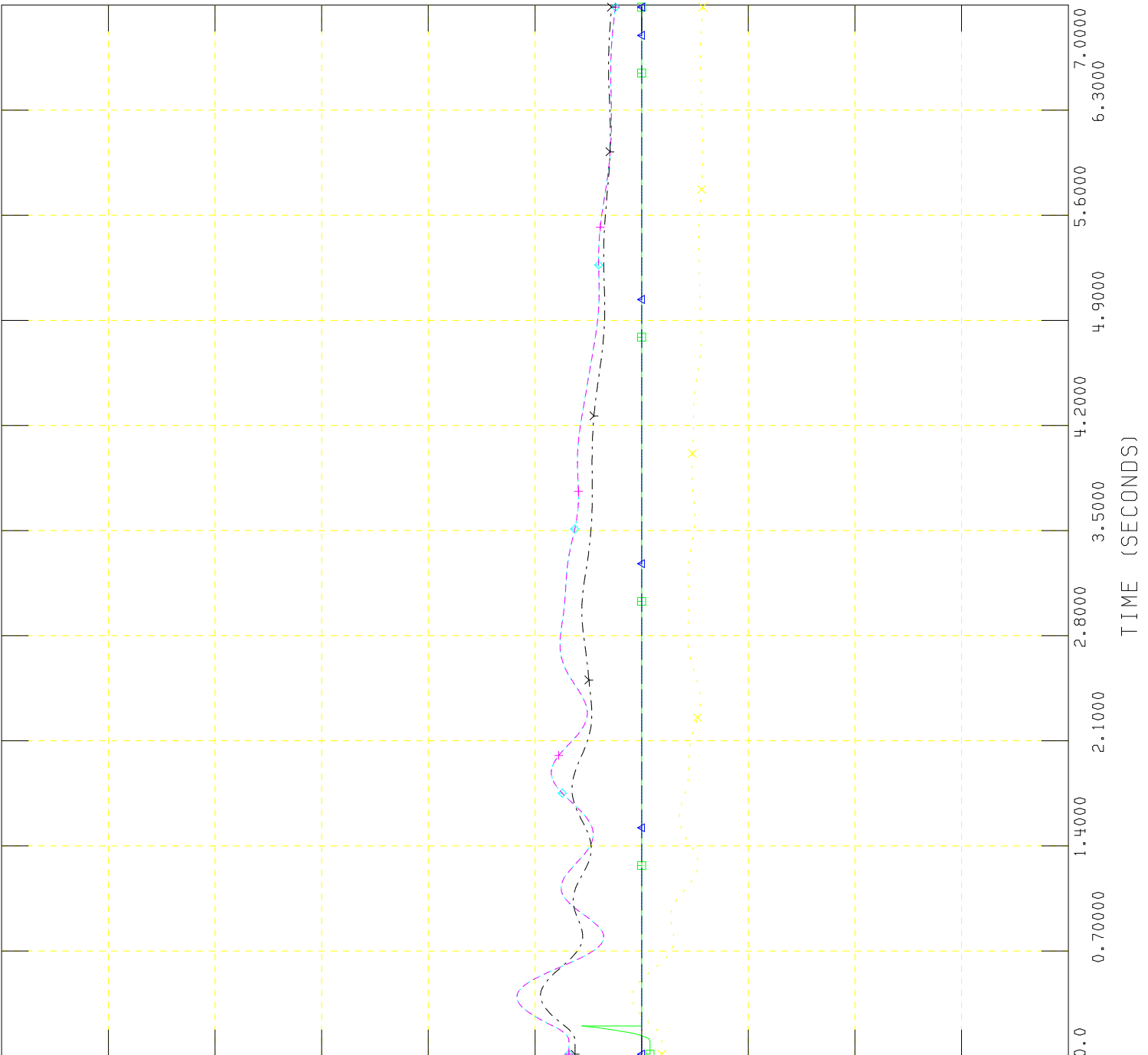
FRI, JUN 13 2008 15:11  
 MACHINE ANGLES - 03



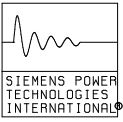
LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

Channel	Label	Value
150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0



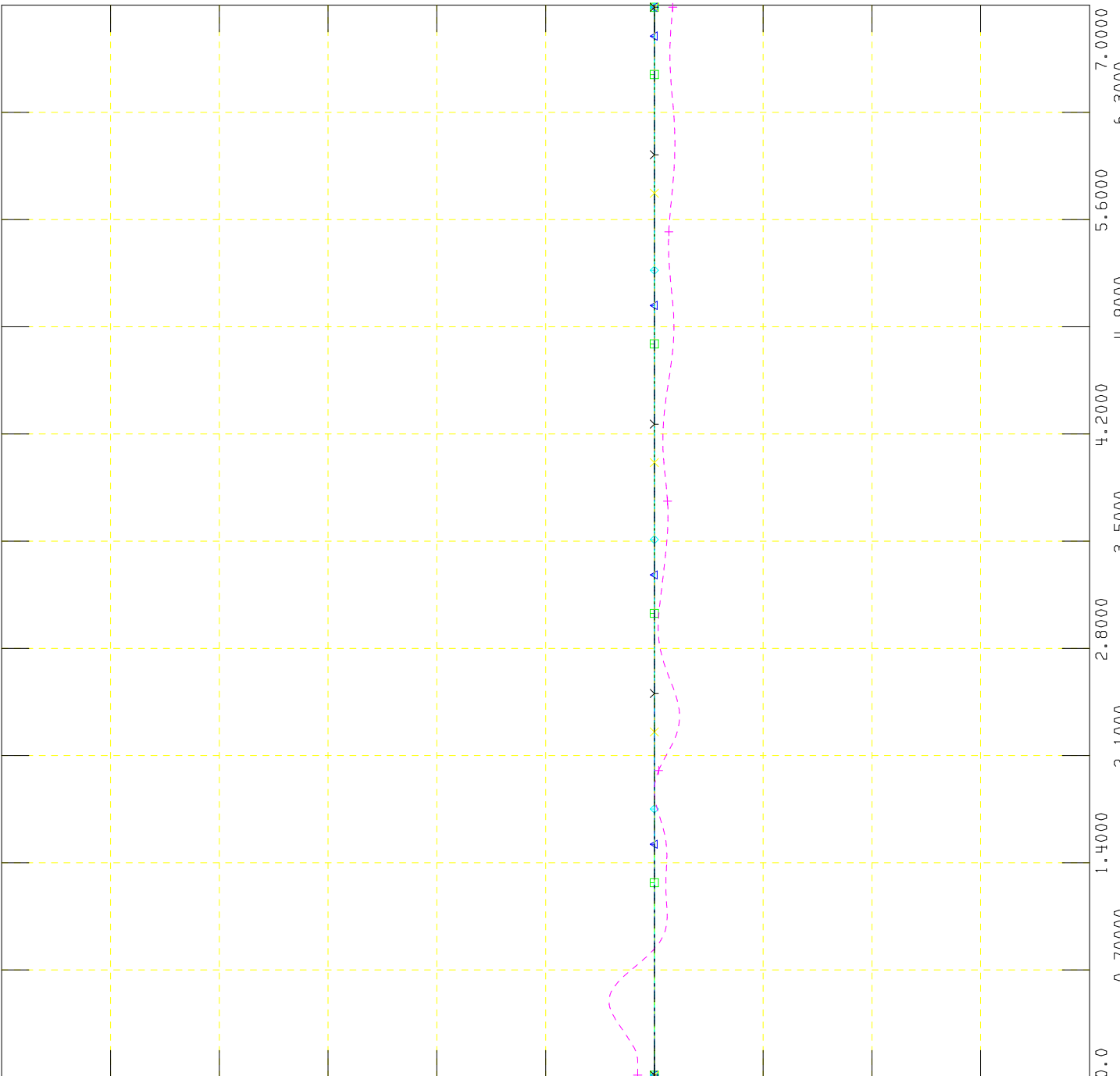
FRI, JUN 13 2008 15:11  
MACHINE ANGLES - 02



LC  
 LC-GENUNIT2  
 CLEAR LOCAL AND REMOVE IN 4CYC

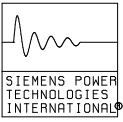
FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



FRI, JUN 13 2008 15:11  
 MACHINE ANGLES - 04

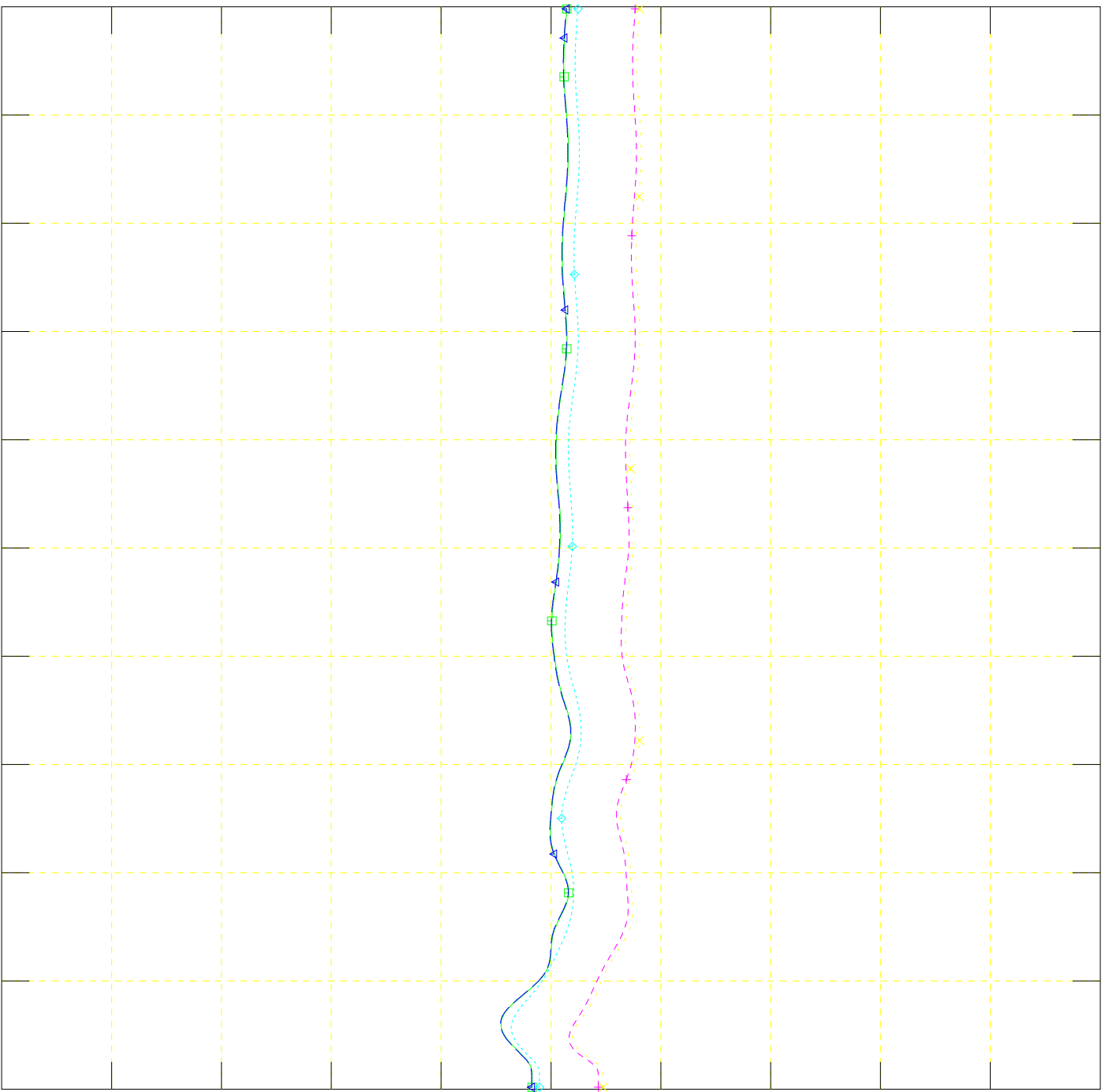
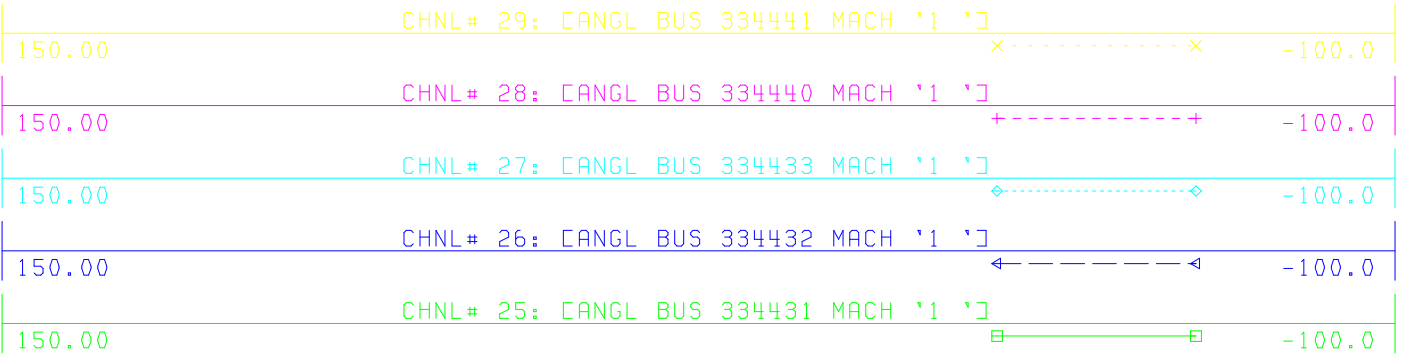




LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

FRI, JUN 13 2008 15:11  
MACHINE ANGLES - 05

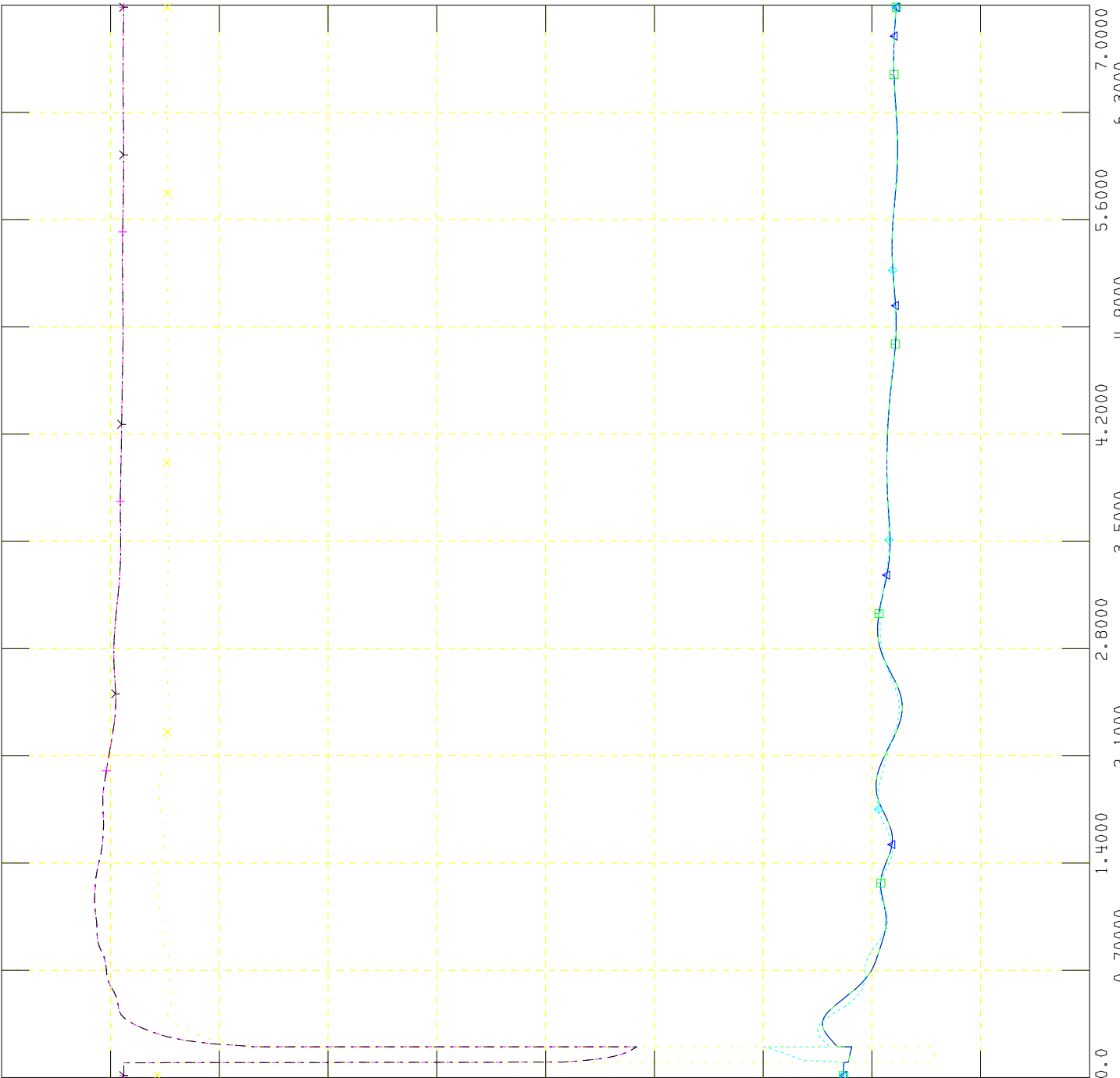




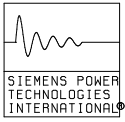
LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



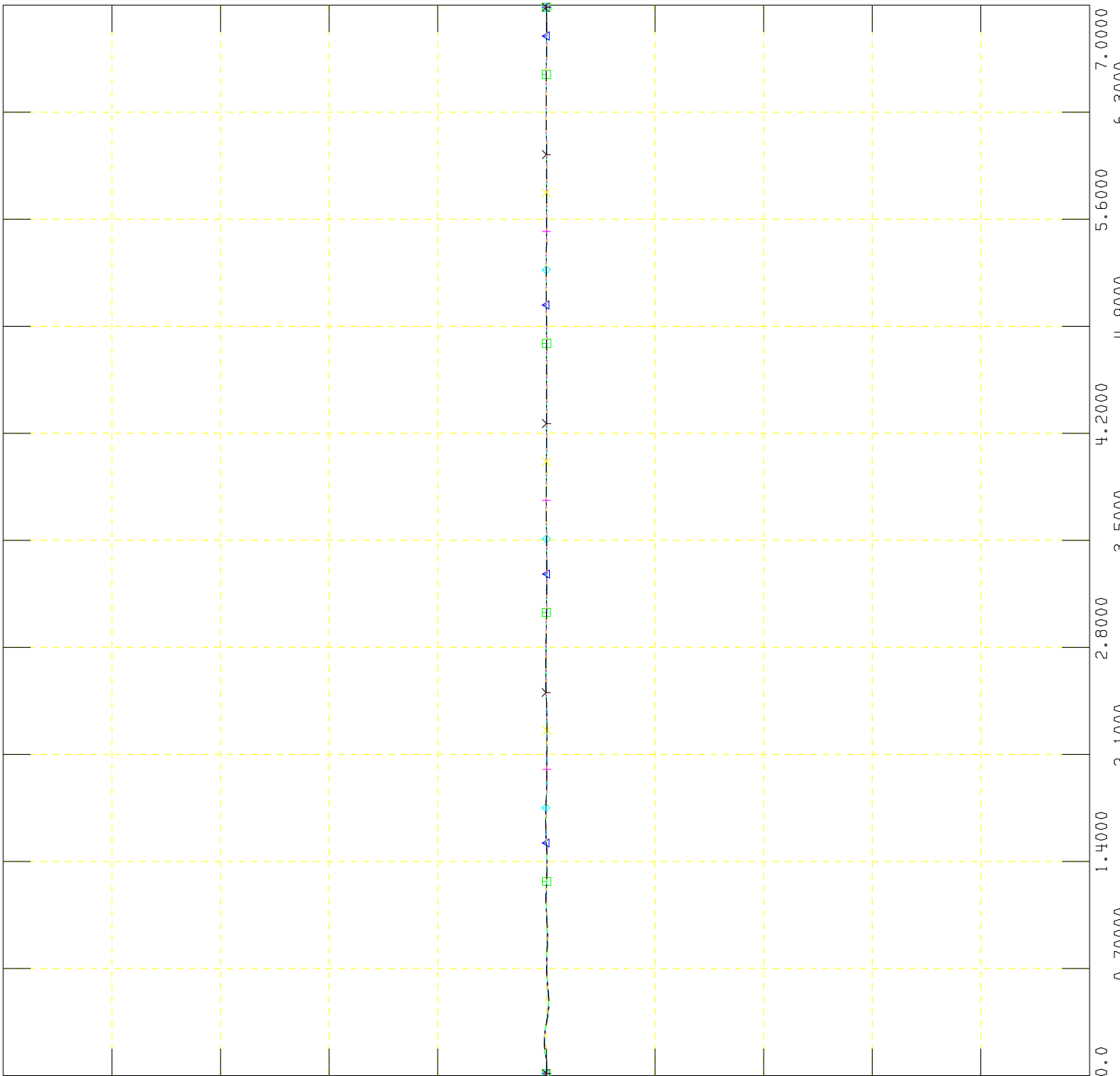
FRI, JUN 13 2008 15:11  
ANG & VOLT - PID-211 GENS



LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

Channel	CFREQ	Channel Name	Value
CHNL# 41	334065	C4LACON	138.00
CHNL# 40	334064	C8LNG 413	138.00
CHNL# 39	334063	C4EVGRN*	138.00
CHNL# 38	334062	C4TEMCO	138.00
CHNL# 37	334061	C4GOREE	138.00
CHNL# 36	334060	C4MT.ZION	138.00



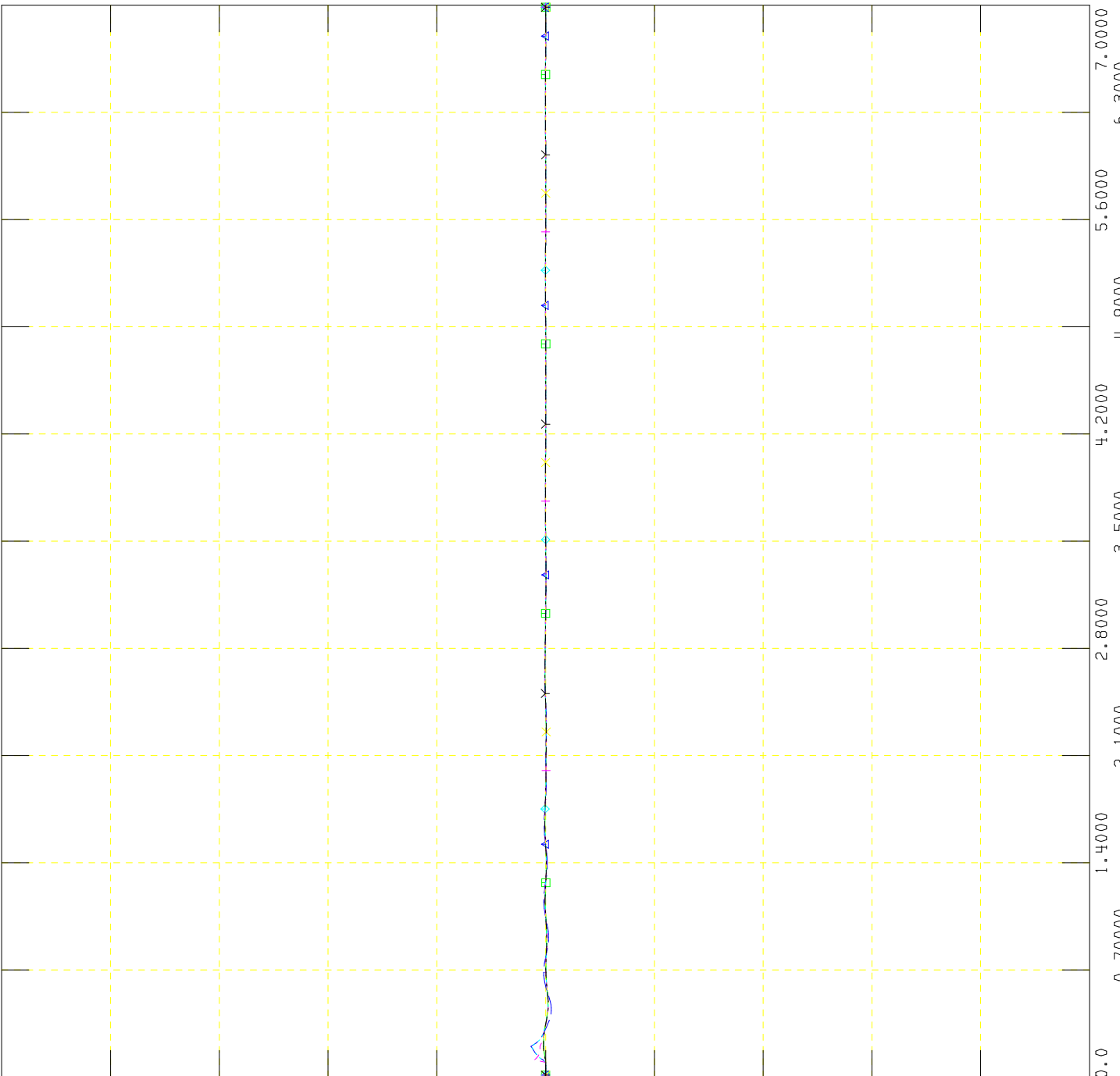
FRI, JUN 13 2008 15:11  
MACHINE FREQUENCIES - 01



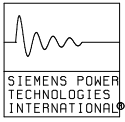
LC  
 LC-GENUNIT2  
 CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



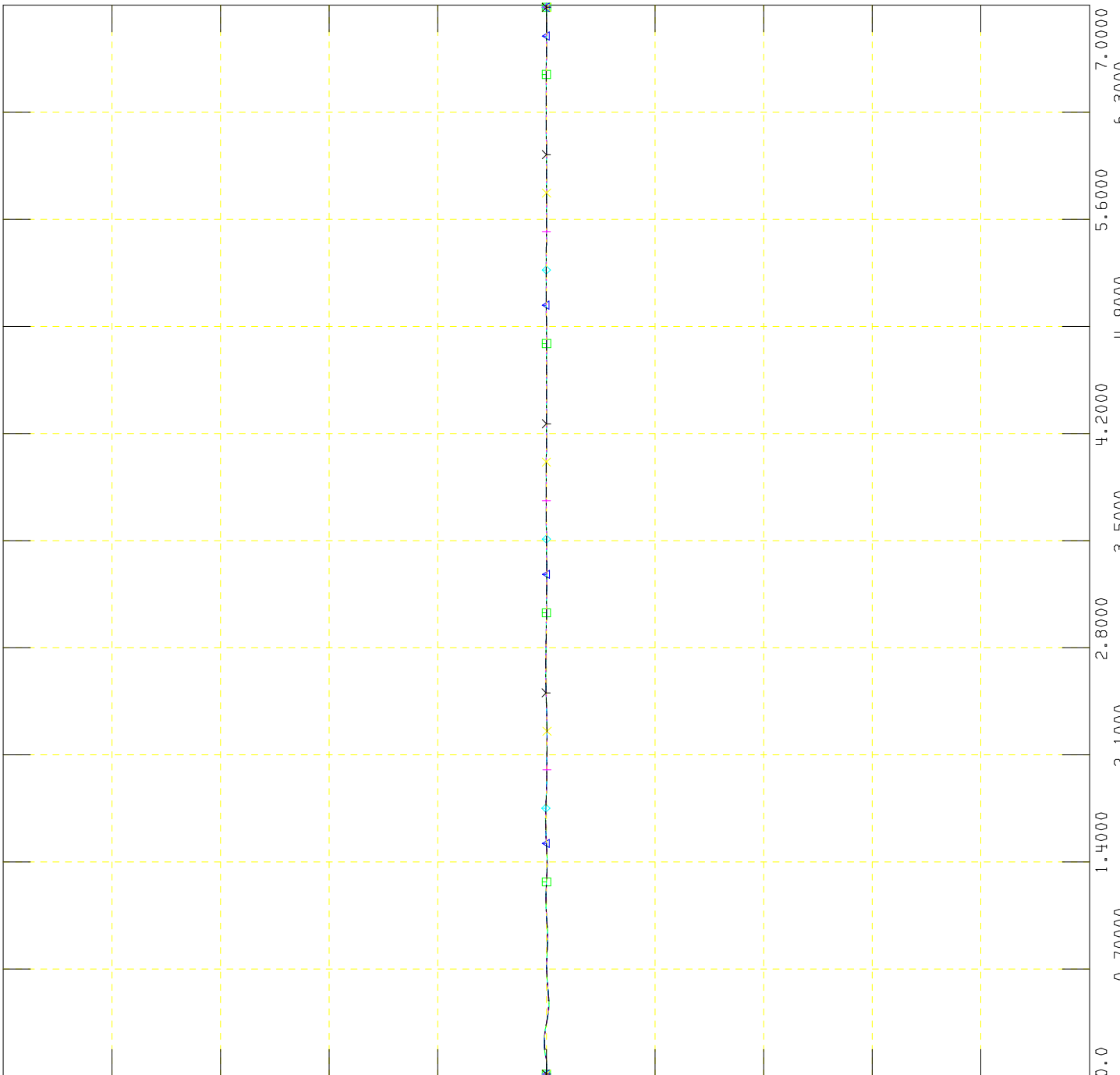
FRI, JUN 13 2008 15:11  
 MACHINE FREQUENCIES - 02



LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

Channel	FREQ	Value
CHNL# 52	CFREQ 334079 C4FWPIPE	138.00
CHNL# 51	CFREQ 334078 C4SHEAWIL	138.00
CHNL# 50	CFREQ 334077 C4PECHCK#	138.00
CHNL# 49	CFREQ 334076 C4CANEYCK	138.00
CHNL# 48	CFREQ 334075 C4LONGMIR	138.00
CHNL# 47	CFREQ 334074 C4PANORAM	138.00



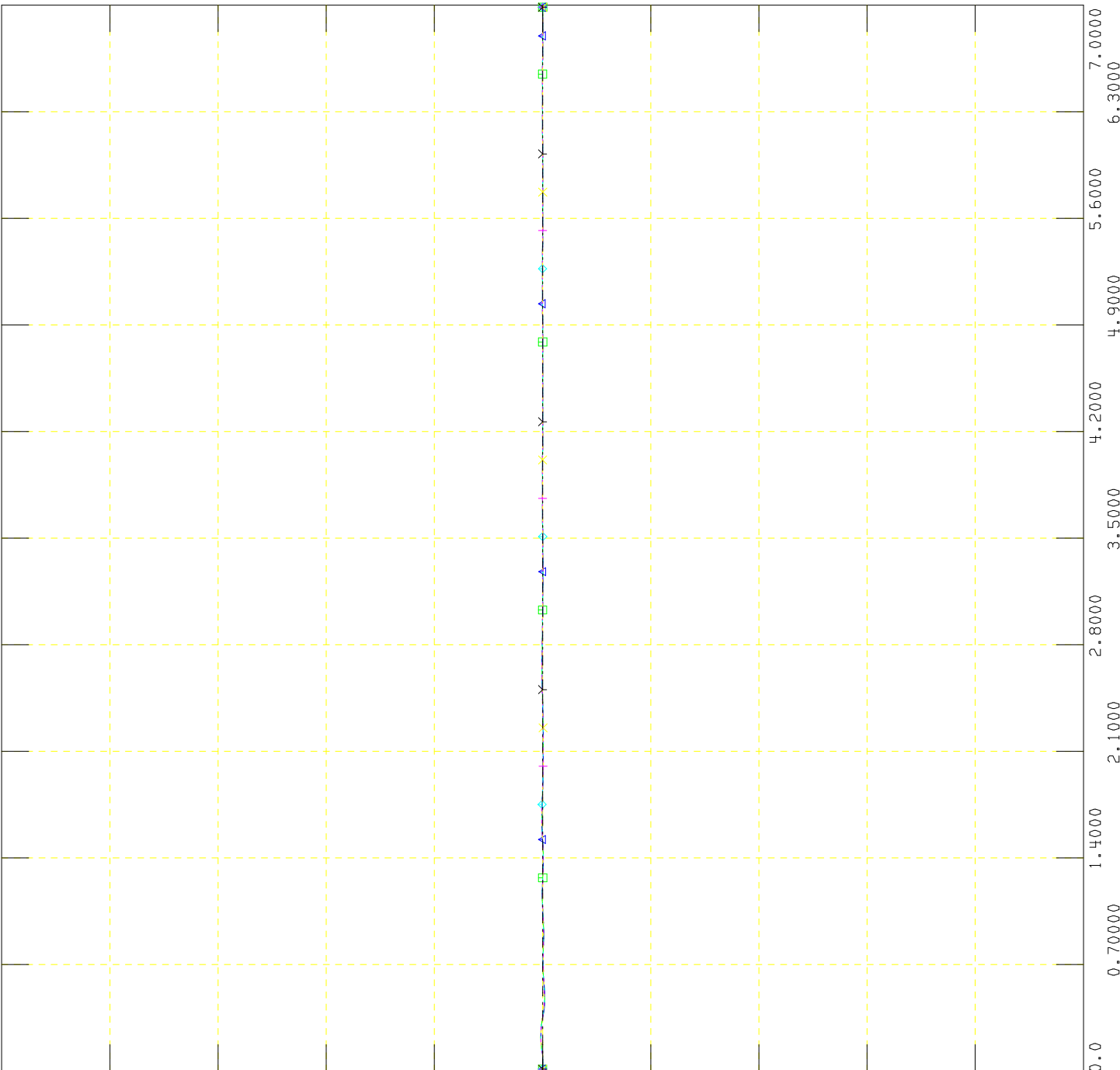
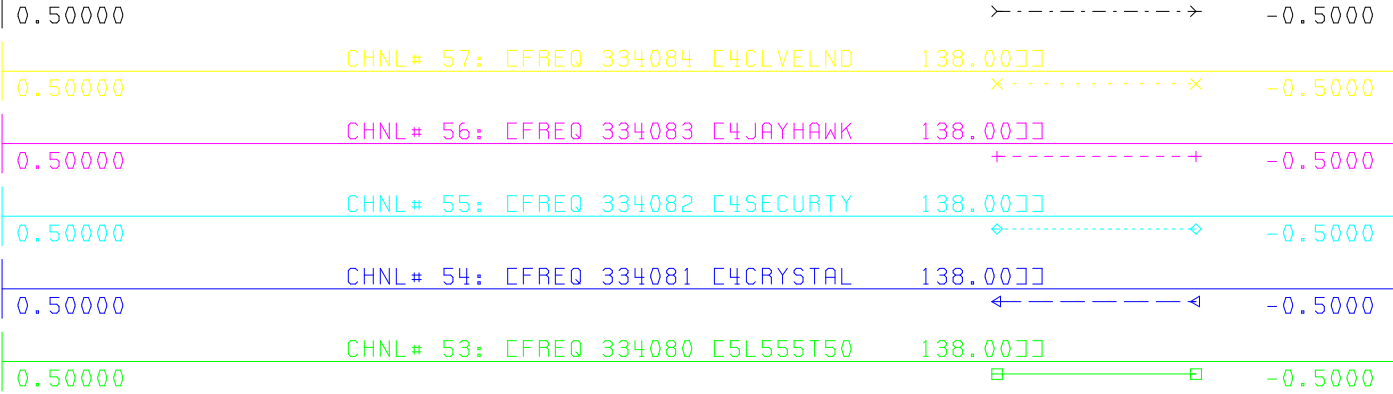
FRI, JUN 13 2008 15:11  
MACHINE FREQUENCIES - 03



LC  
 LC-GENUNIT2  
 CLEAR LOCAL AND REMOVE IN 4CYC

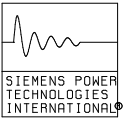
FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 15:11  
 MACHINE FREQUENCIES - 04

TIME (SECONDS)

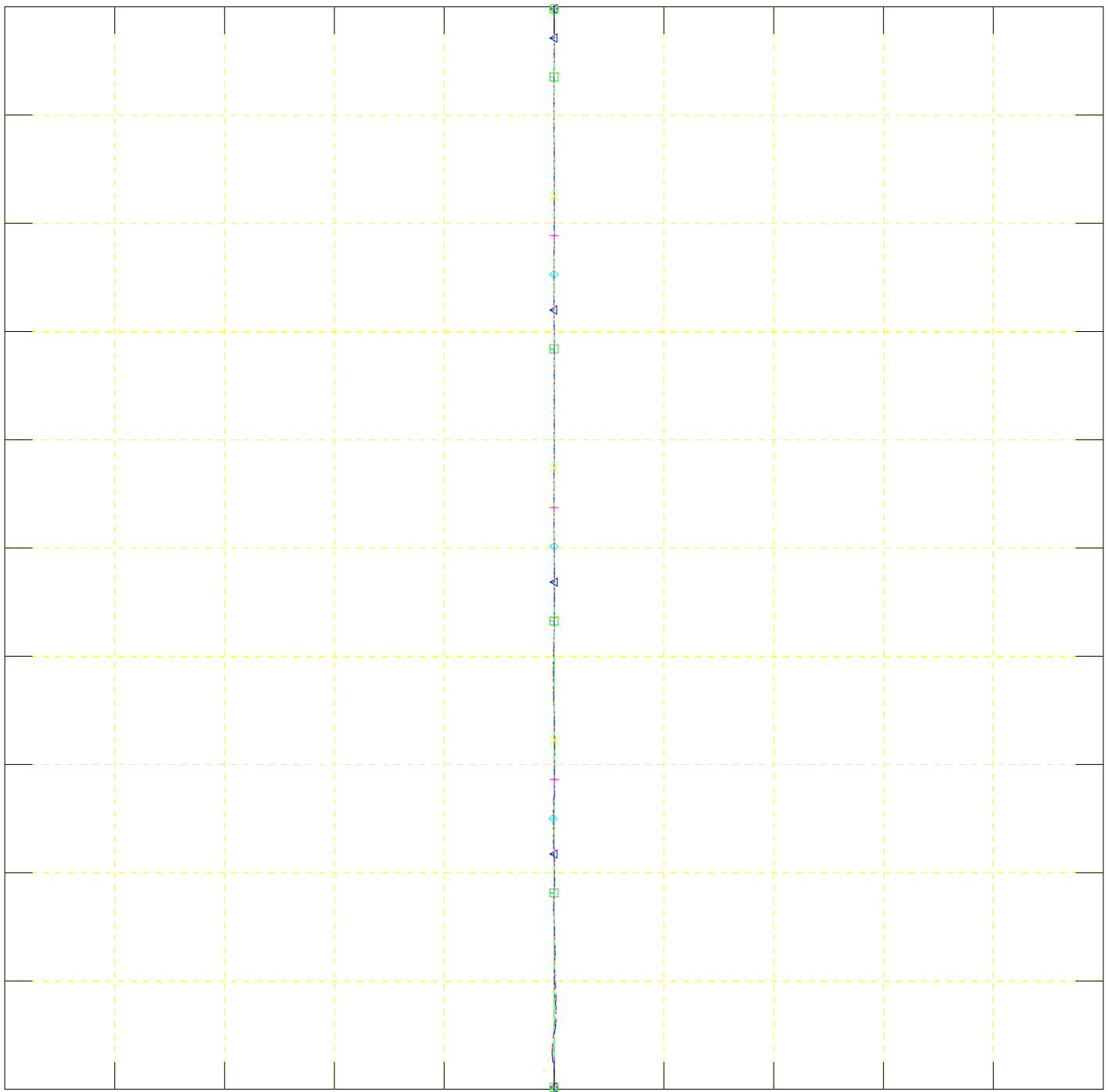


LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

FRI, JUN 13 2008 15:11  
MACHINE FREQUENCIES - 05

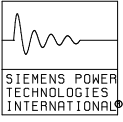
Channel	Freq	Value	Marker
CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	18.000	0.50000	x
CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	18.000	0.50000	+
CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	18.000	0.50000	◇
CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	138.00	0.50000	△
CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	230.00	0.50000	□



0.50000  
-0.50000  
0.50000  
-0.50000  
0.50000  
-0.50000  
0.50000  
-0.50000

7.0000  
6.3000  
5.6000  
4.9000  
4.2000  
3.5000  
2.8000  
2.1000  
1.4000  
0.70000  
0.0

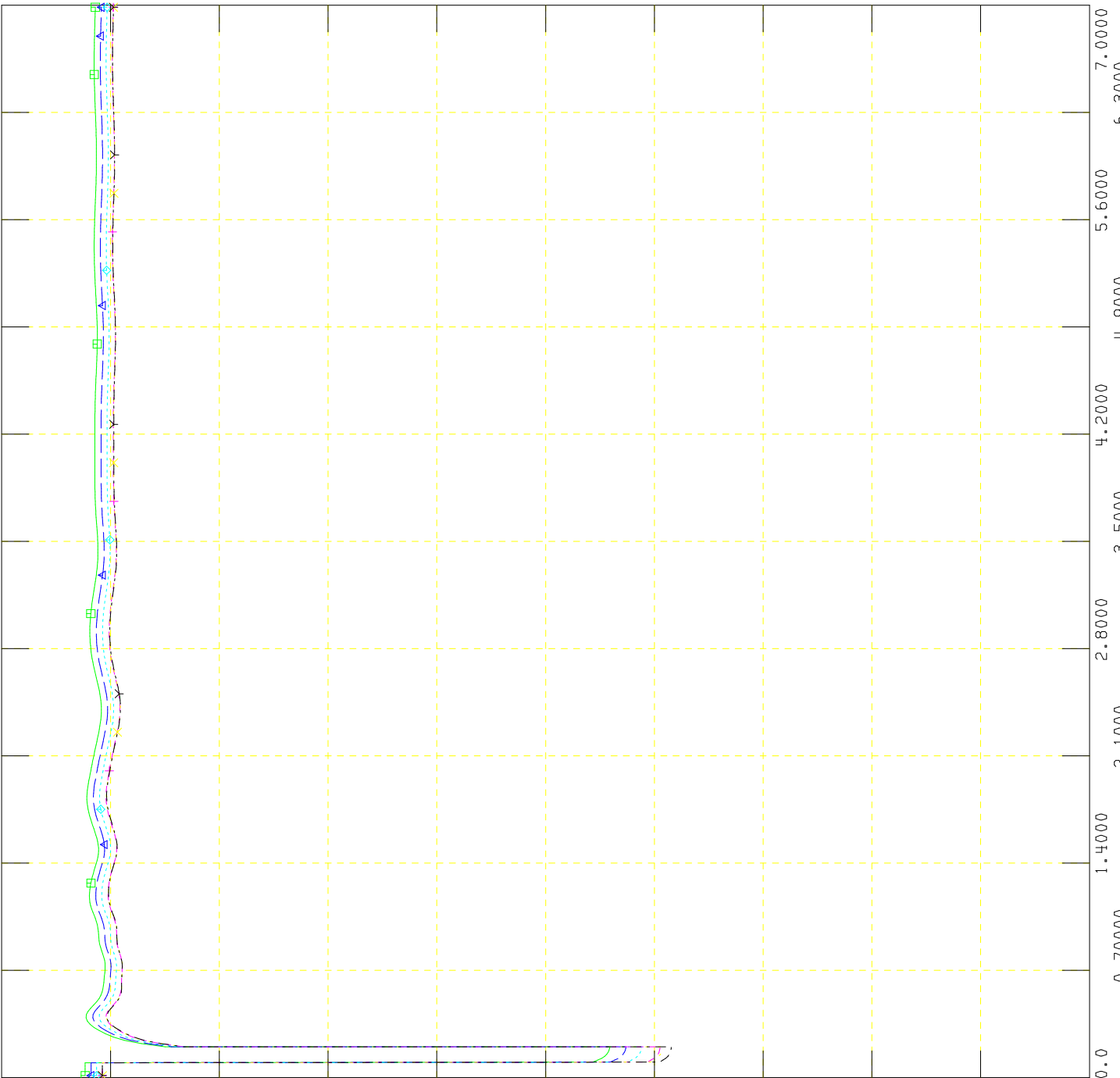
TIME (SECONDS)



LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

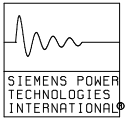
FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



FRI, JUN 13 2008 15:11  
BUS VOLTAGES - 01

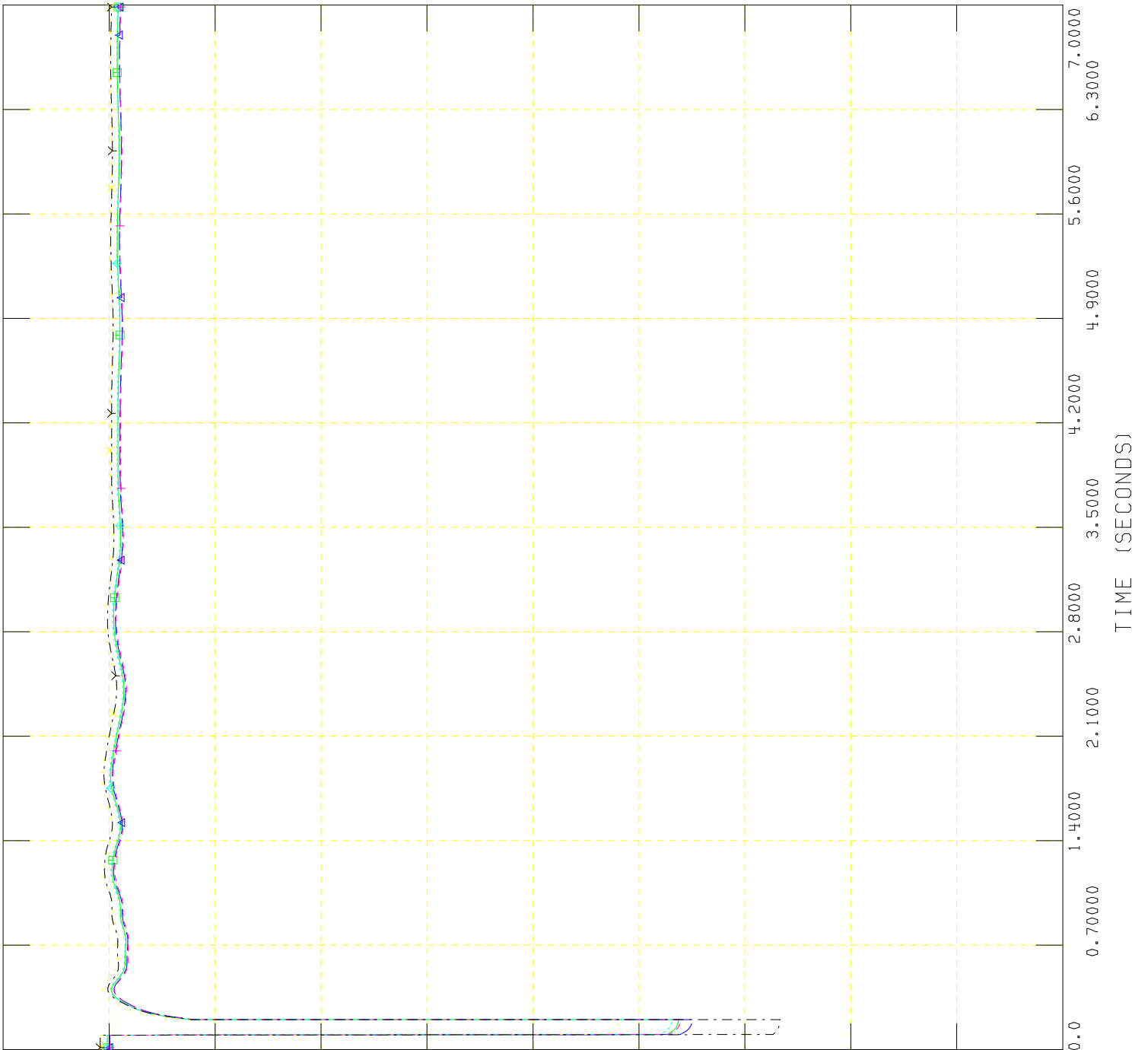




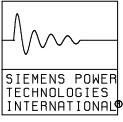
LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



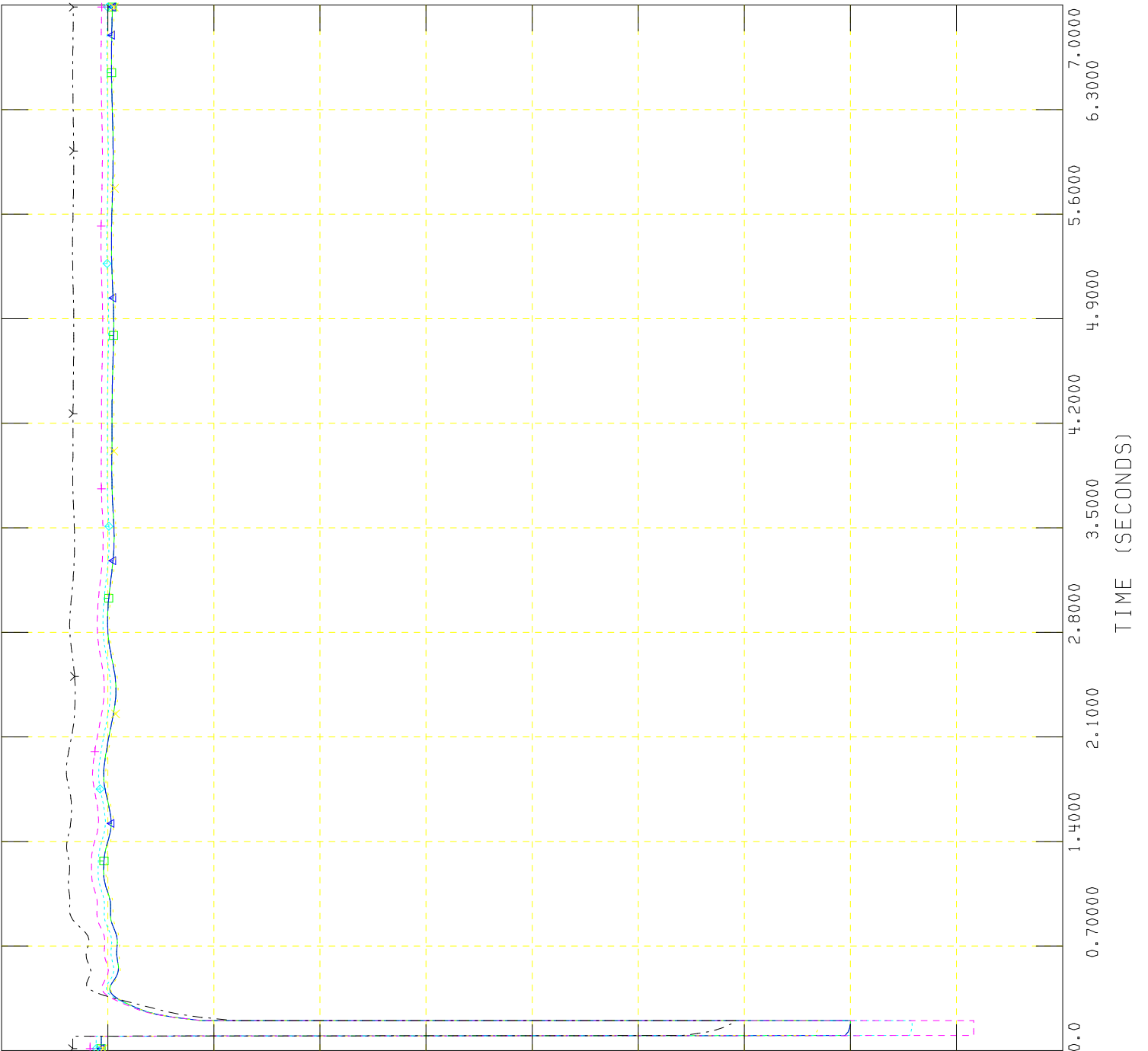
FRI, JUN 13 2008 15:11  
BUS VOLTAGES - 02



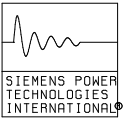
LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



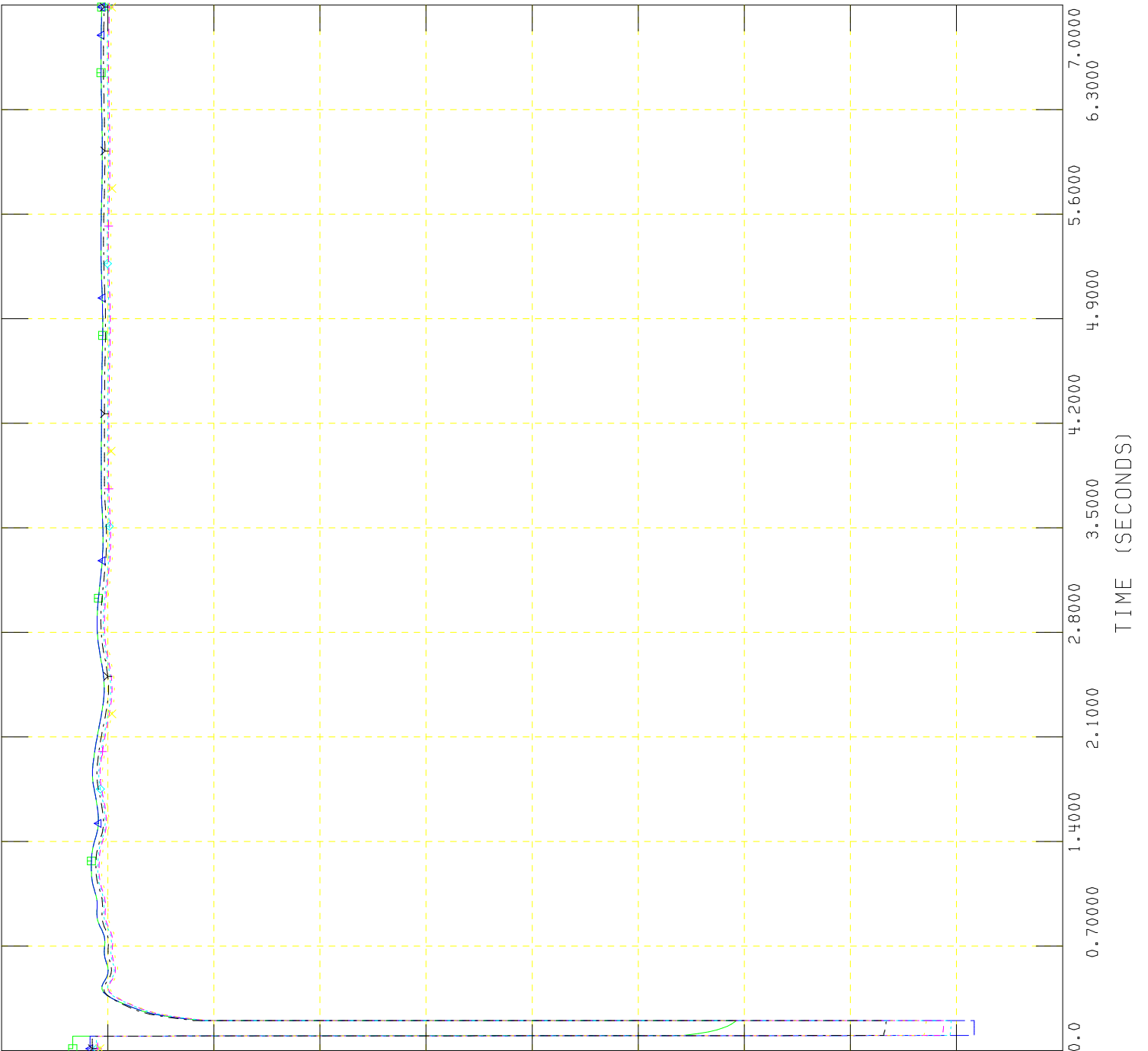
FRI, JUN 13 2008 15:11  
BUS VOLTAGES - 03



LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



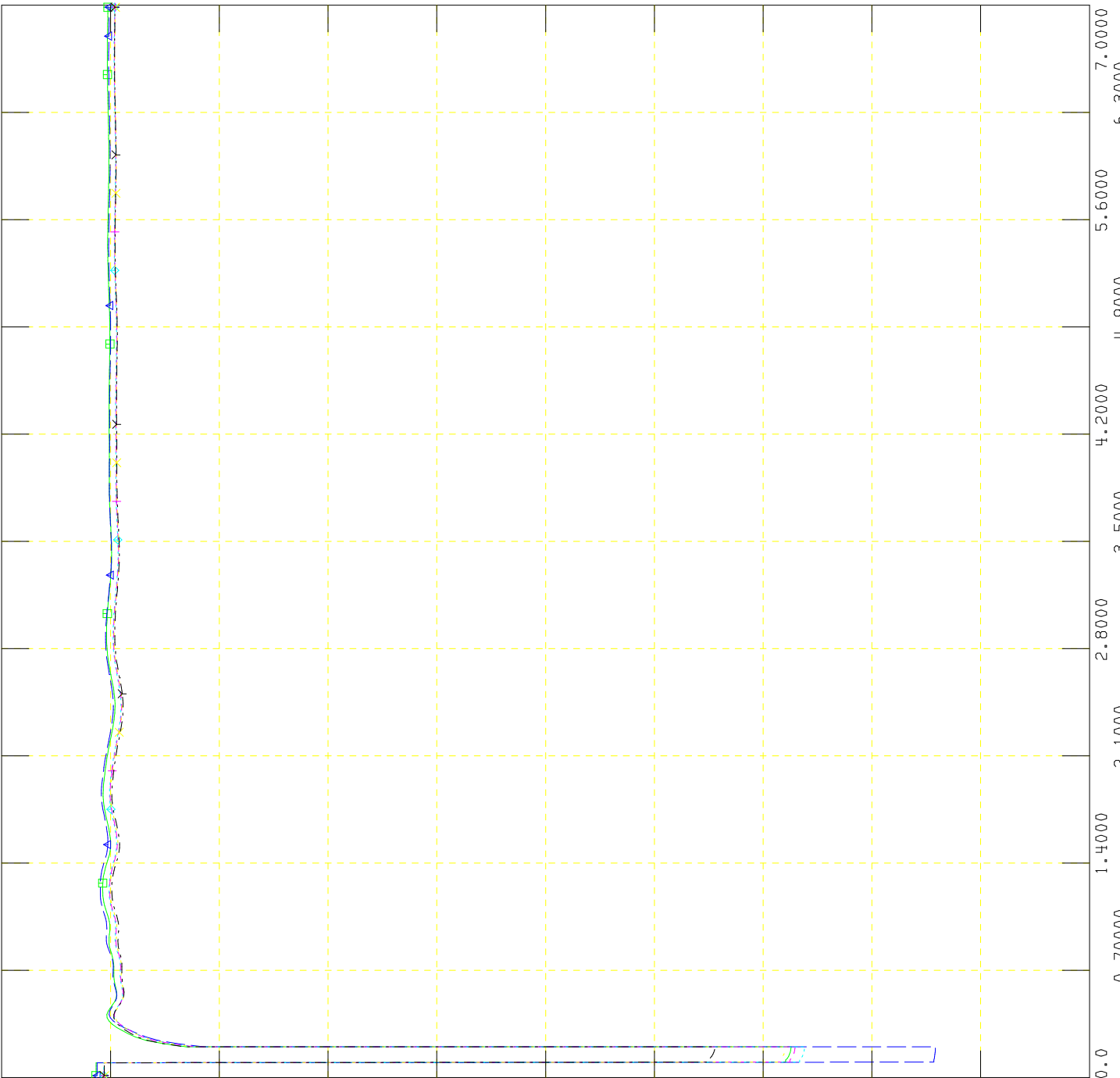
FRI, JUN 13 2008 15:11  
BUS VOLTAGES - 04



LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



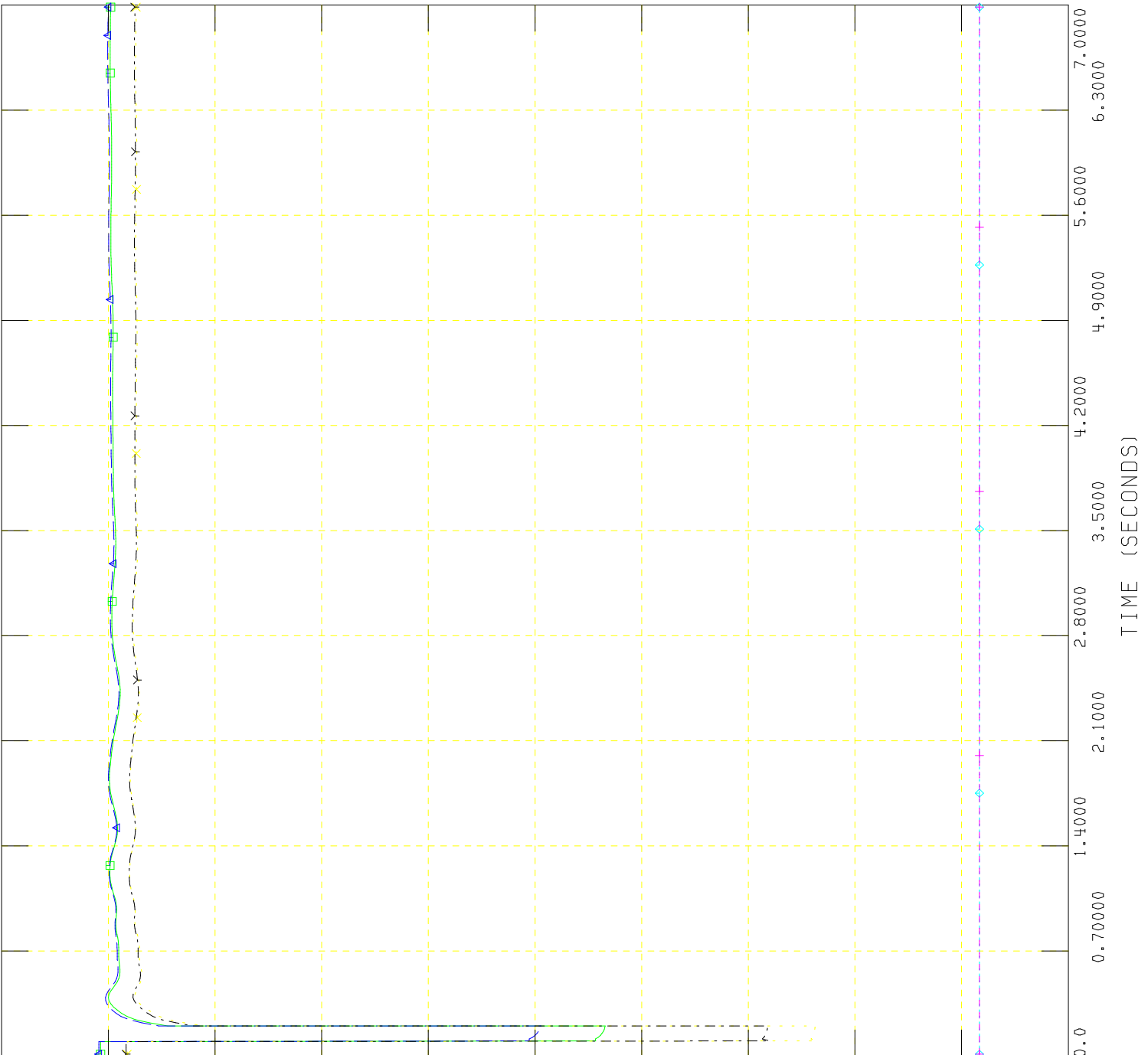
FRI, JUN 13 2008 15:11  
BUS VOLTAGES - 05



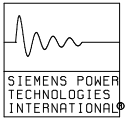
LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



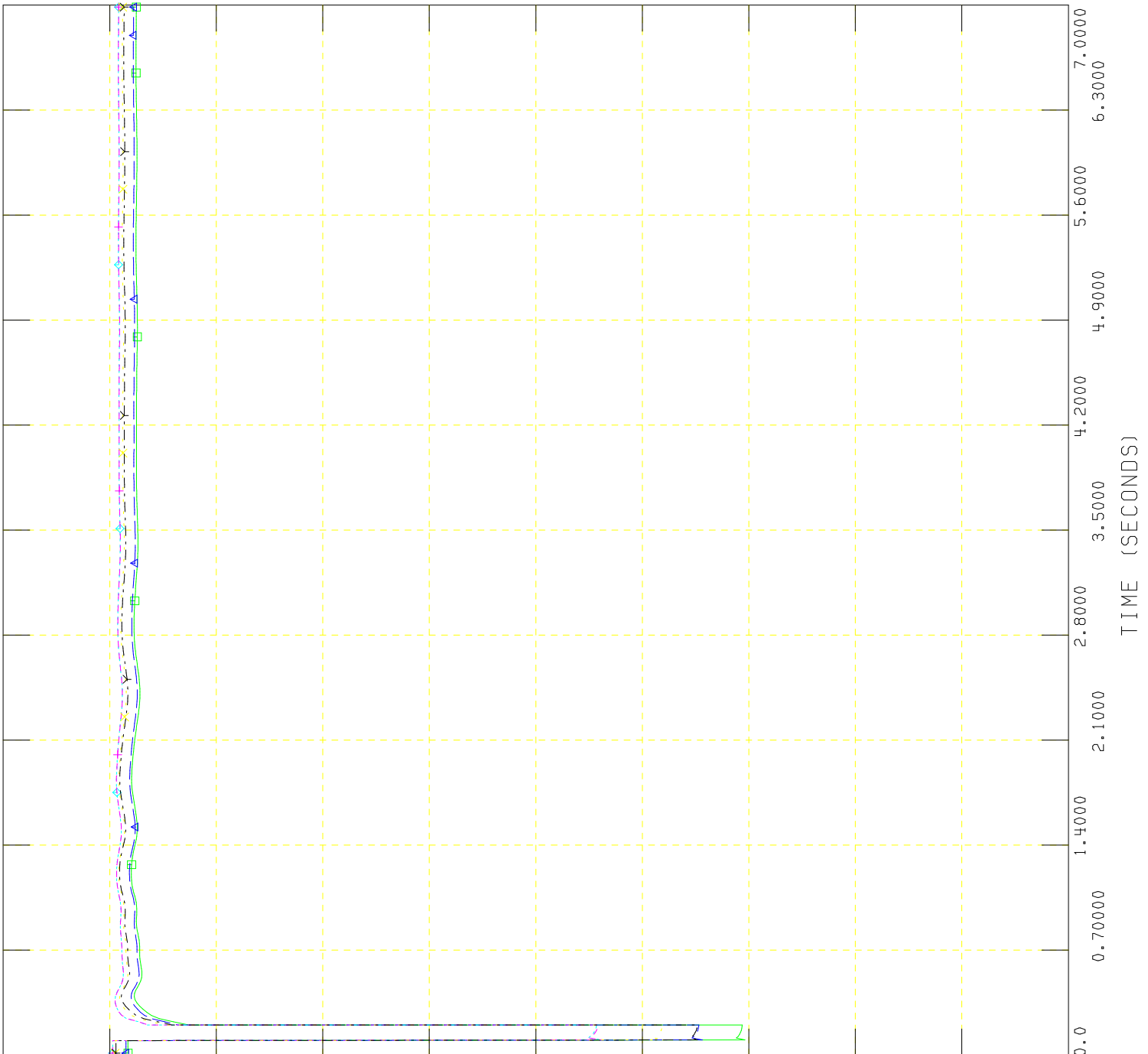
FRI, JUN 13 2008 15:11  
BUS VOLTAGES - 06



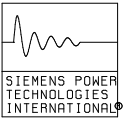
LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



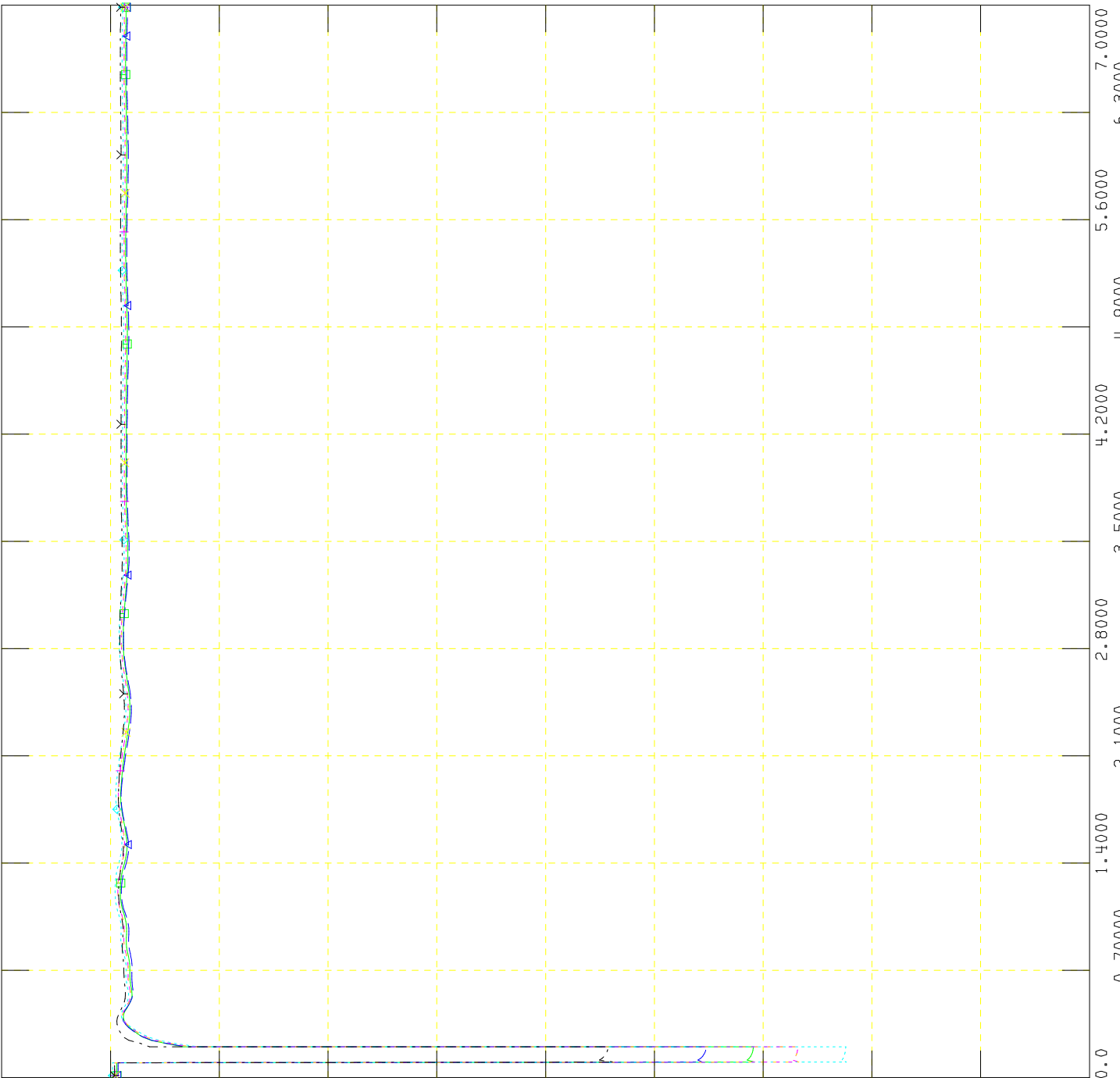
FRI, JUN 13 2008 15:11  
BUS VOLTAGES - 07



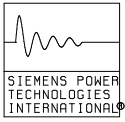
LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



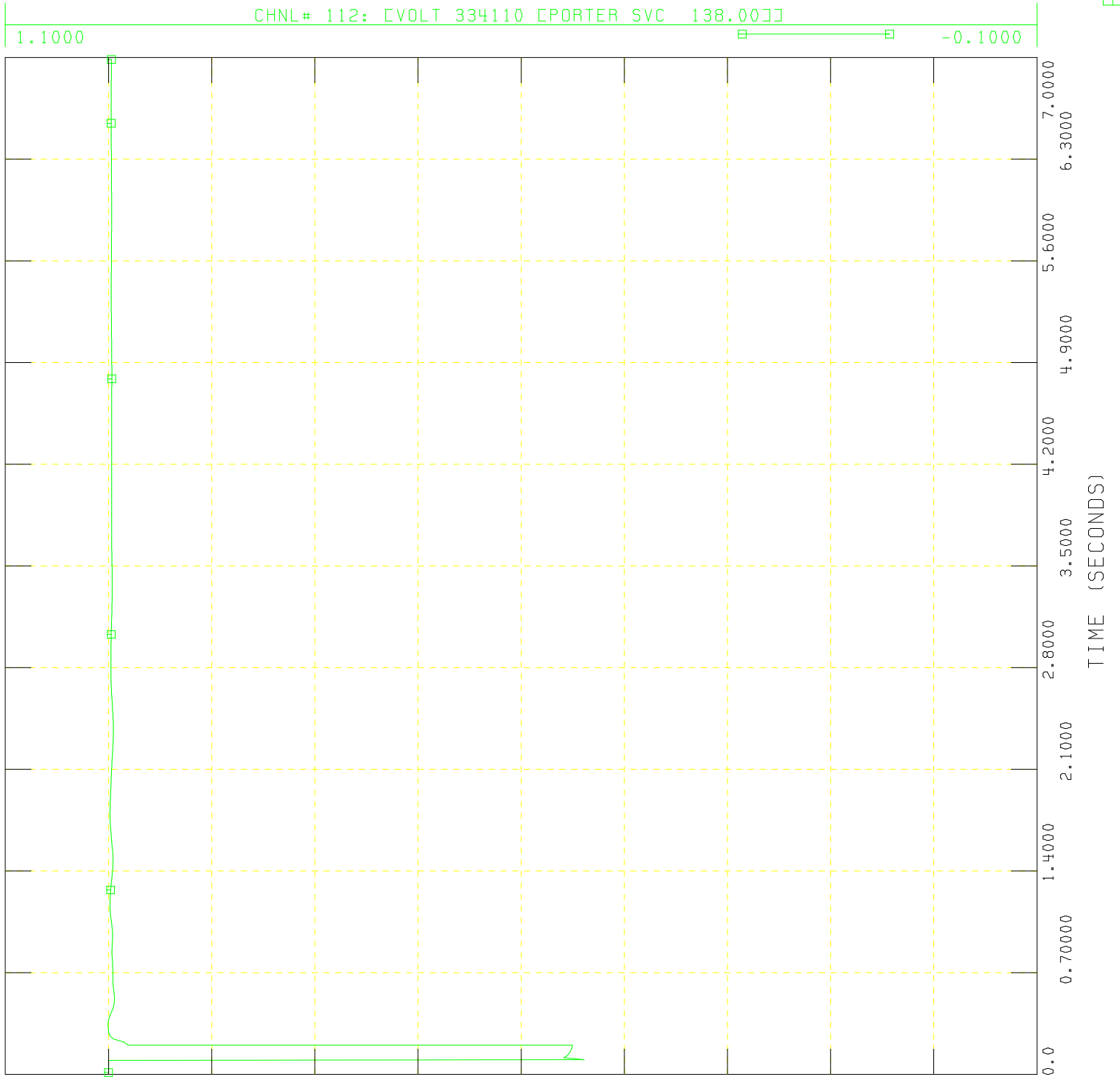
FRI, JUN 13 2008 15:11  
BUS VOLTAGES - 08



LC  
LC-GENUNIT2  
CLEAR LOCAL AND REMOVE IN 4CYC

FILE: C:\Southwest Power Pool\LC-GenUnit2-2.out

FRI, JUN 13 2008 15:11  
BUS VOLTAGES - 09





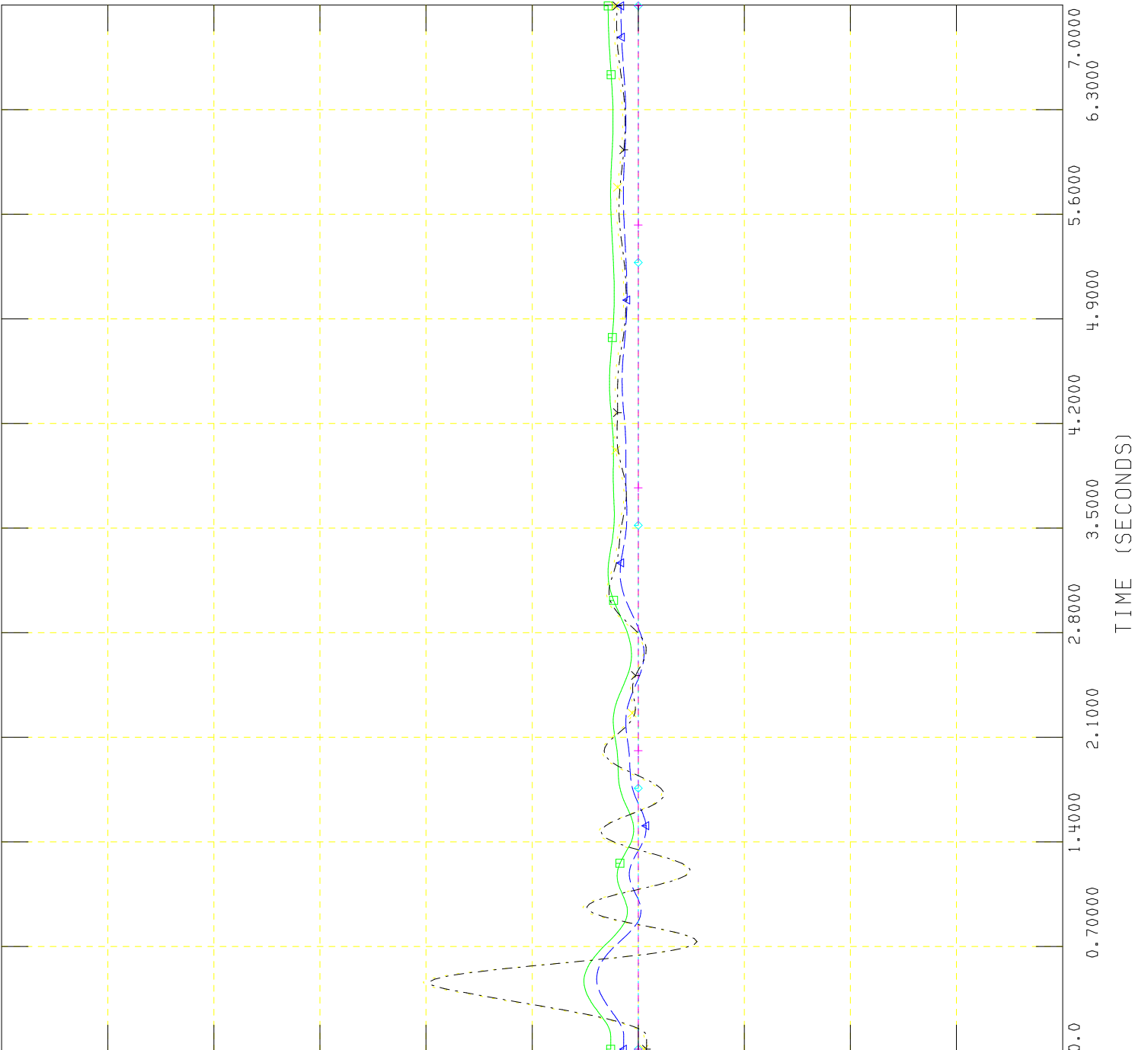
**FAULT 1a**  
**Lewis Creek – Longmire 138 kV**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**



LC  
LC-LONGMIRE, STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

Channel	Bus	Mach	Value
CHNL# 6	[ANGL BUS 334071	MACH '1 ']	-100.0
CHNL# 5	[ANGL BUS 334070	MACH '1 ']	-100.0
CHNL# 4	[ANGL BUS 334033	MACH '1 ']	-100.0
CHNL# 3	[ANGL BUS 334032	MACH '1 ']	-100.0
CHNL# 2	[ANGL BUS 334031	MACH '1 ']	-100.0
CHNL# 1	[ANGL BUS 334030	MACH '1 ']	-100.0

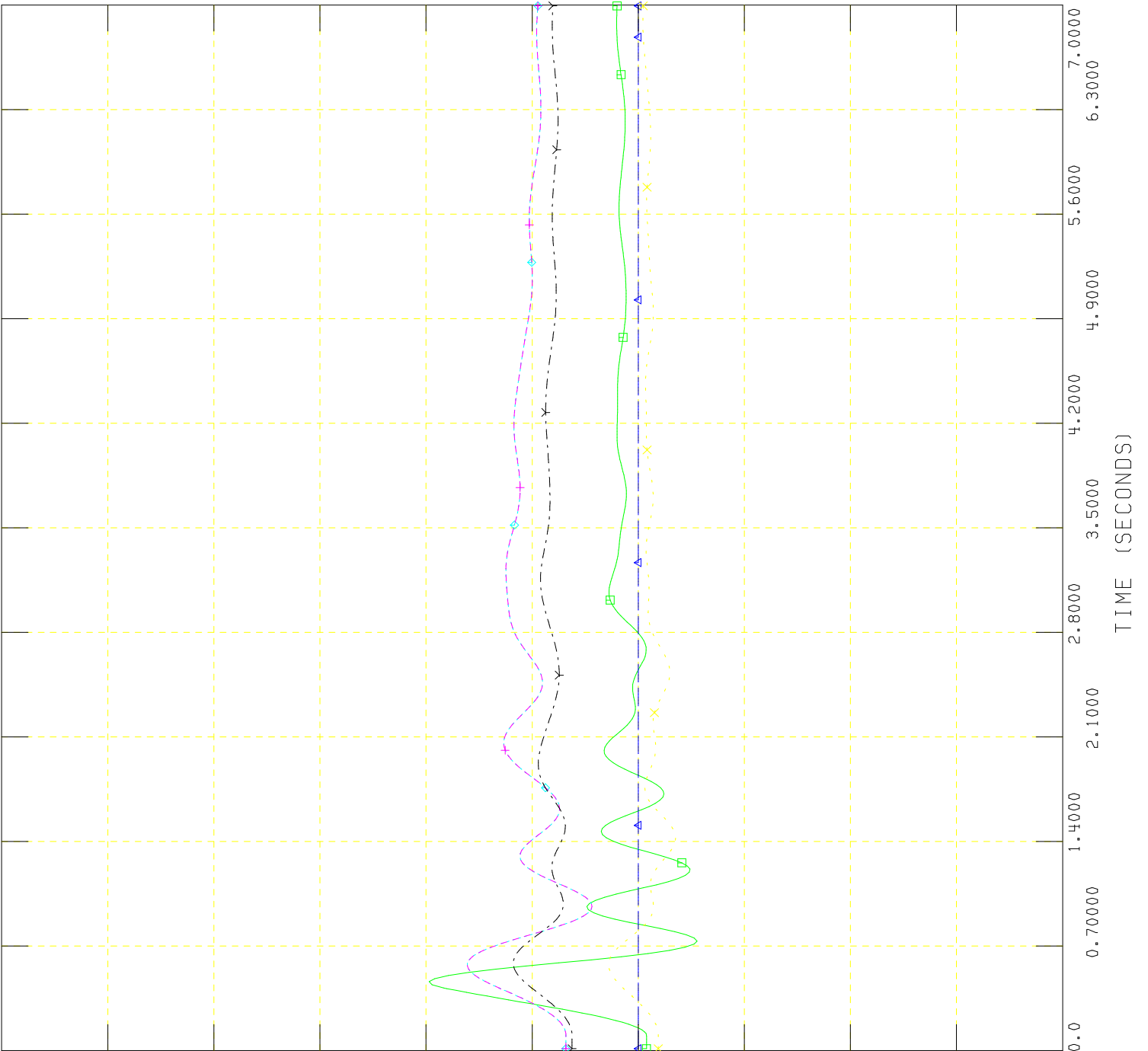
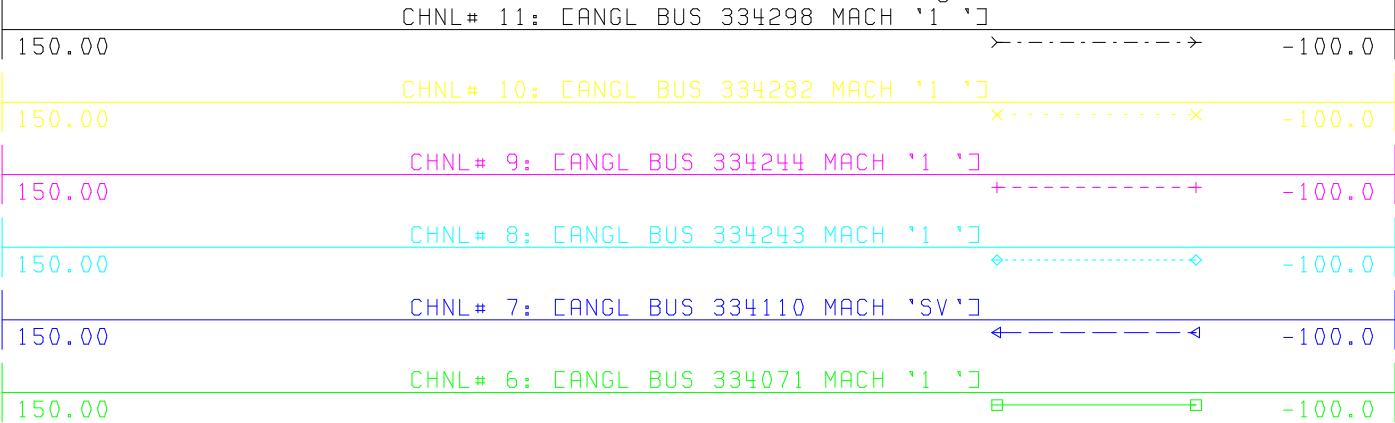


FRI, JUN 13 2008 10:18  
MACHINE ANGLES - 01

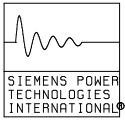


LC  
LC-LONGMIRE, STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

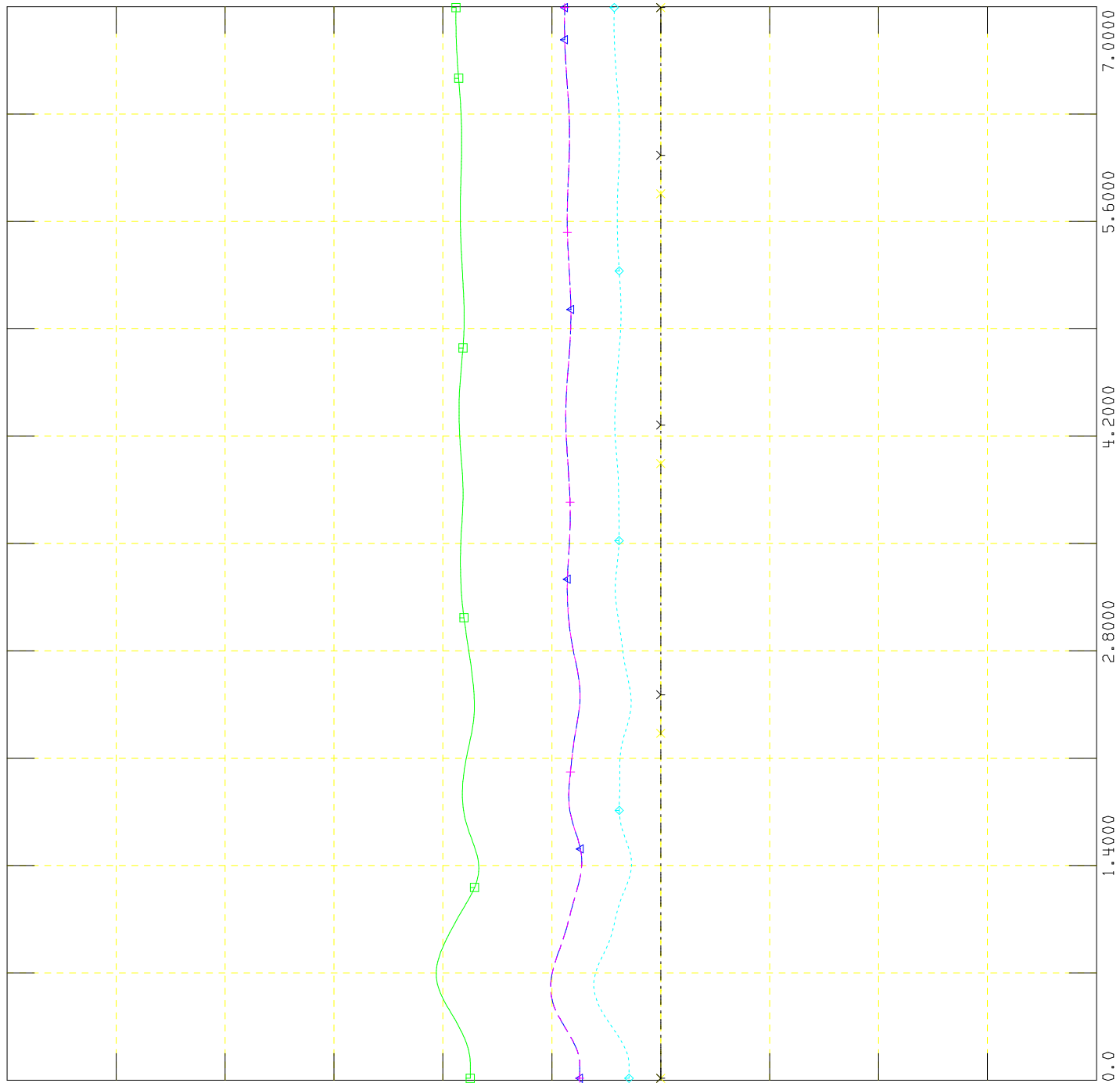
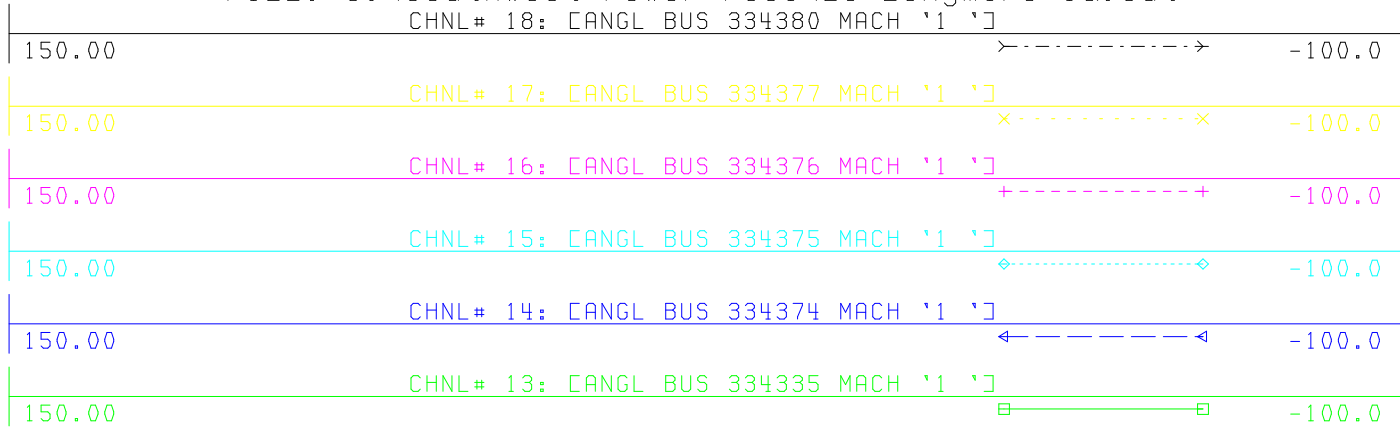


FRI, JUN 13 2008 10:18  
MACHINE ANGLES - 02

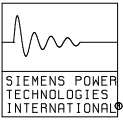


LC  
LC-LONGMIRE, STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out



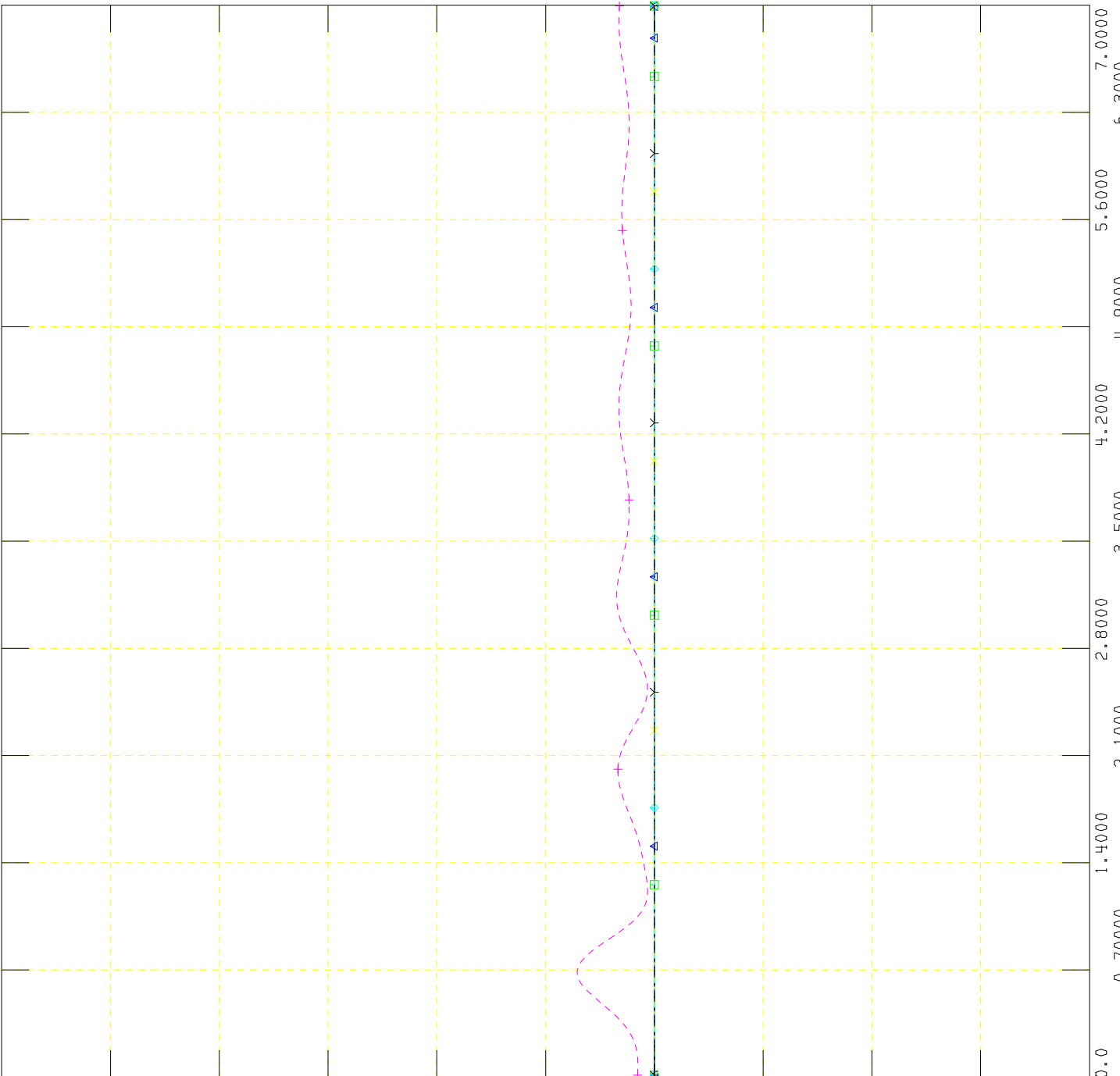
FRI, JUN 13 2008 10:18  
MACHINE ANGLES - 03



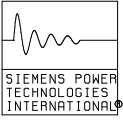
LC  
 LC-LONGMIRE, STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



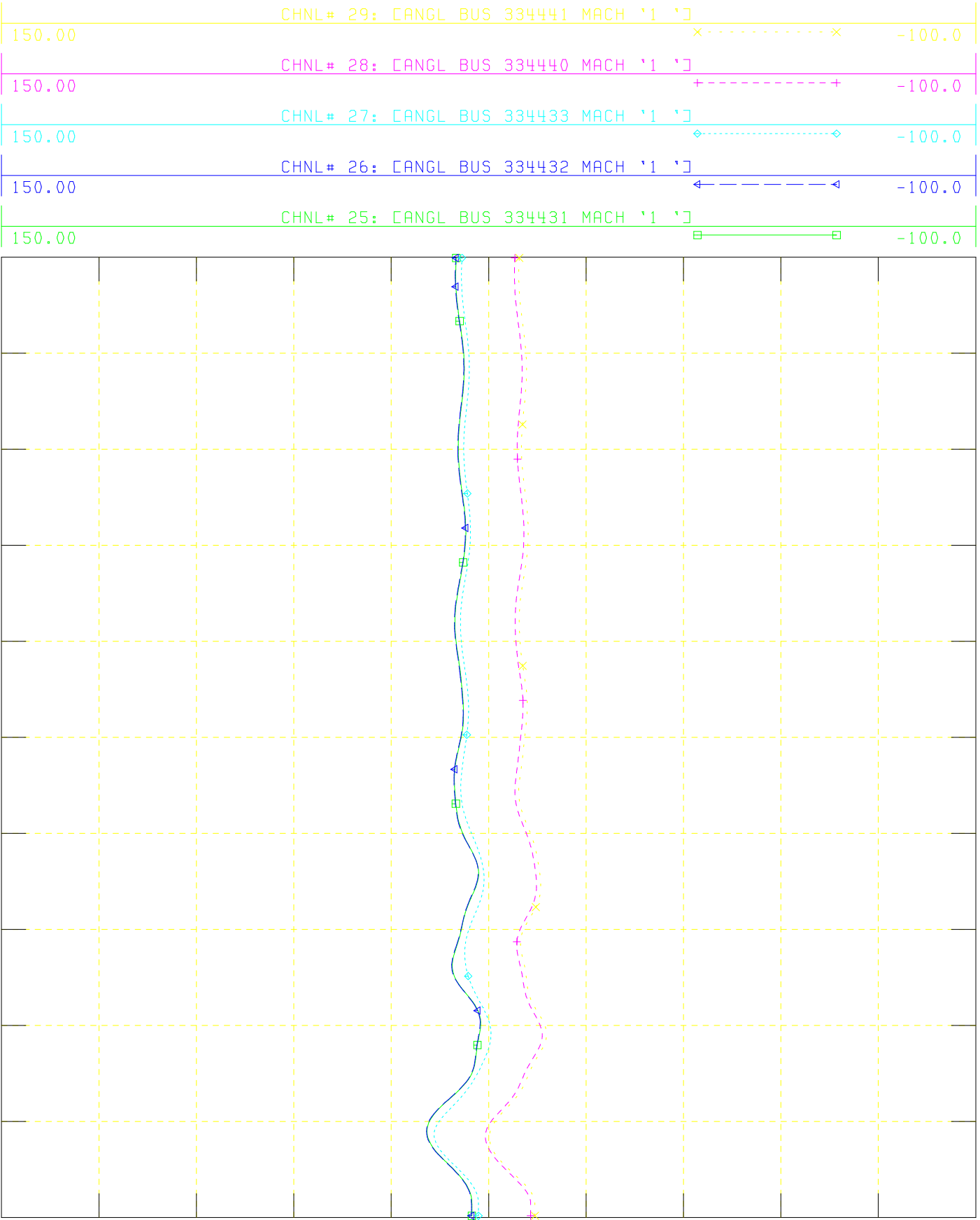
FRI, JUN 13 2008 10:18  
 MACHINE ANGLES - 04



LC  
LC-LONGMIRE, STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

FRI, JUN 13 2008 10:18  
MACHINE ANGLES - 05

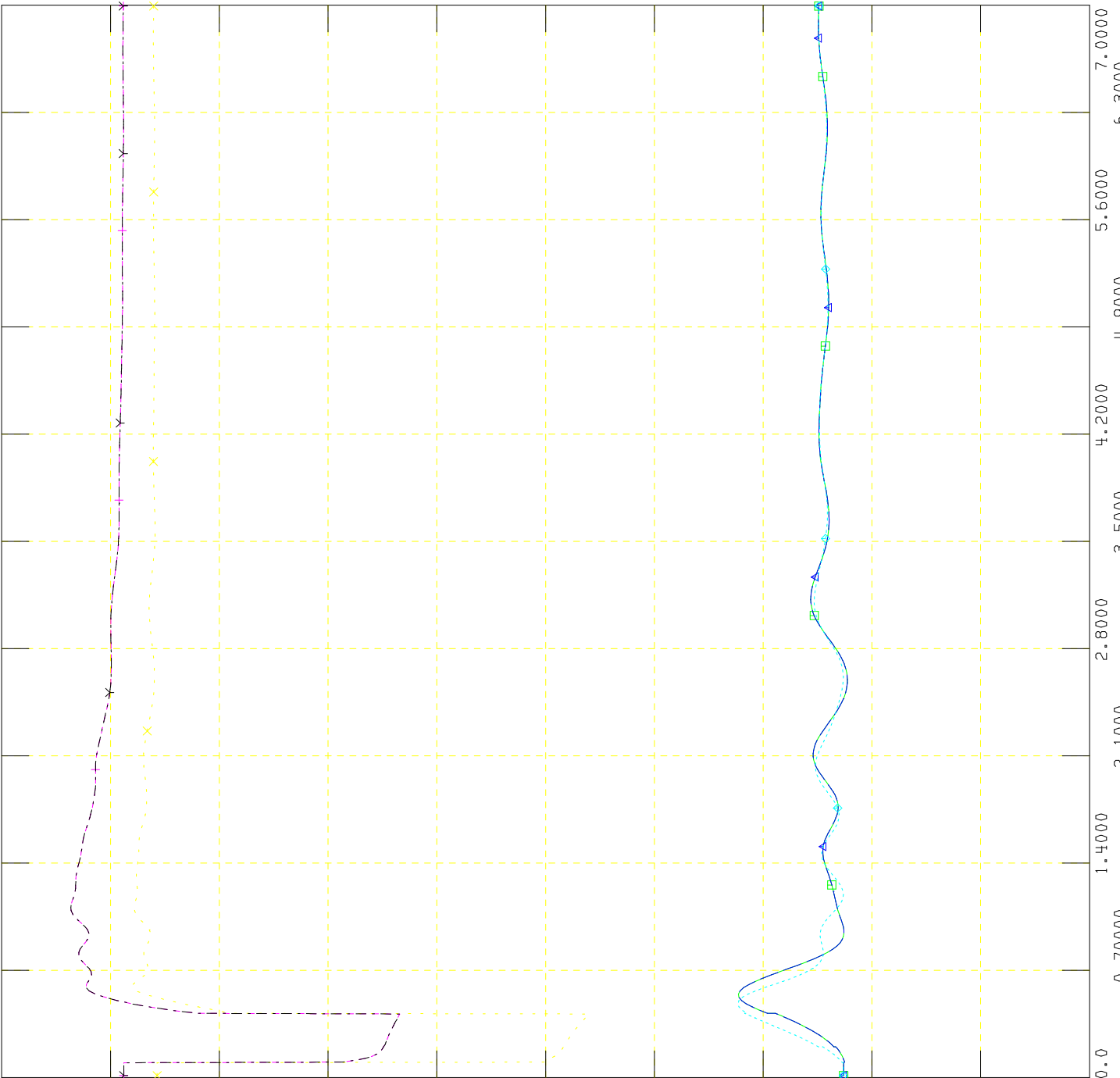




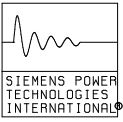
LC  
LC-LONGMIRE, STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0

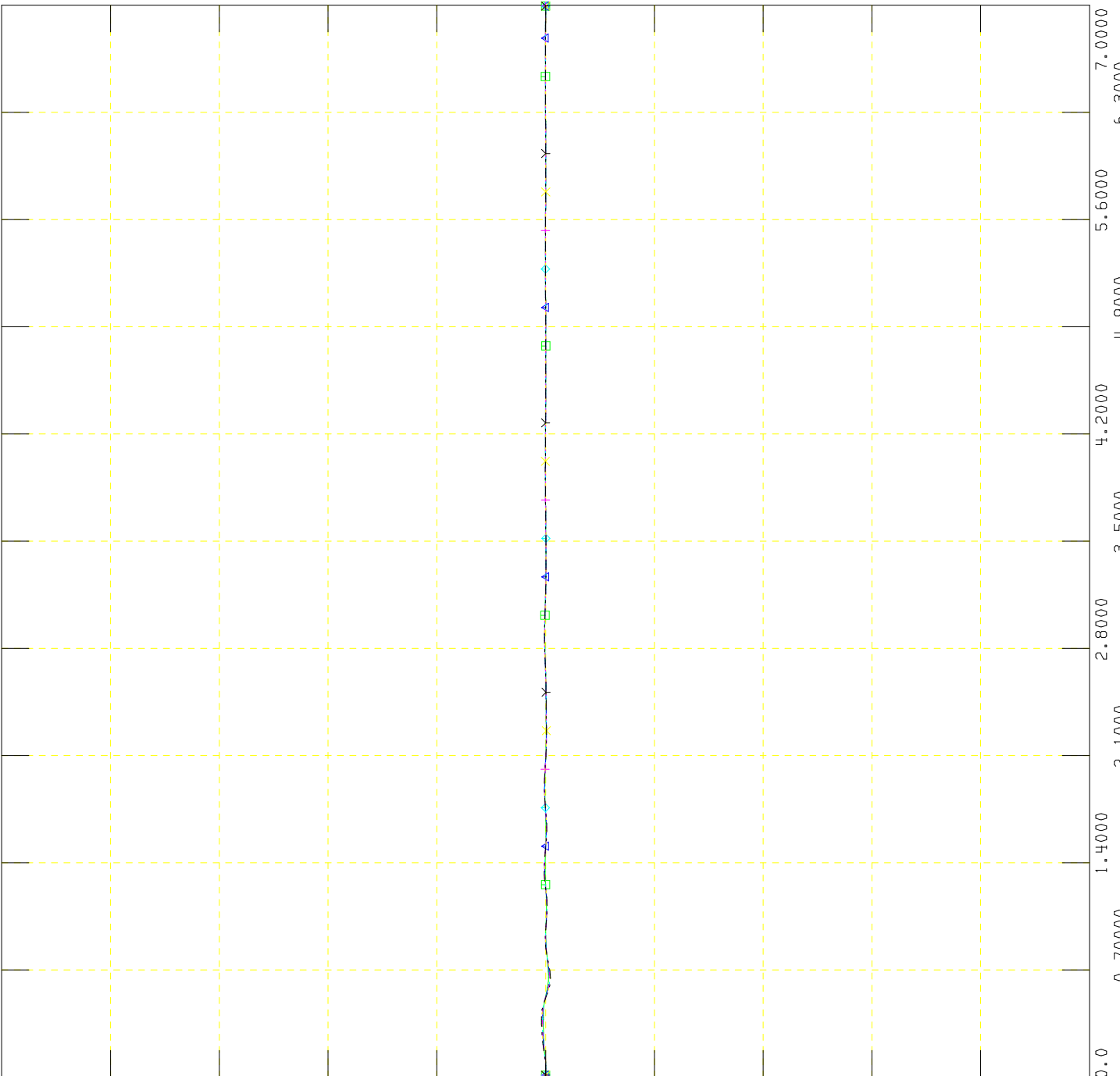
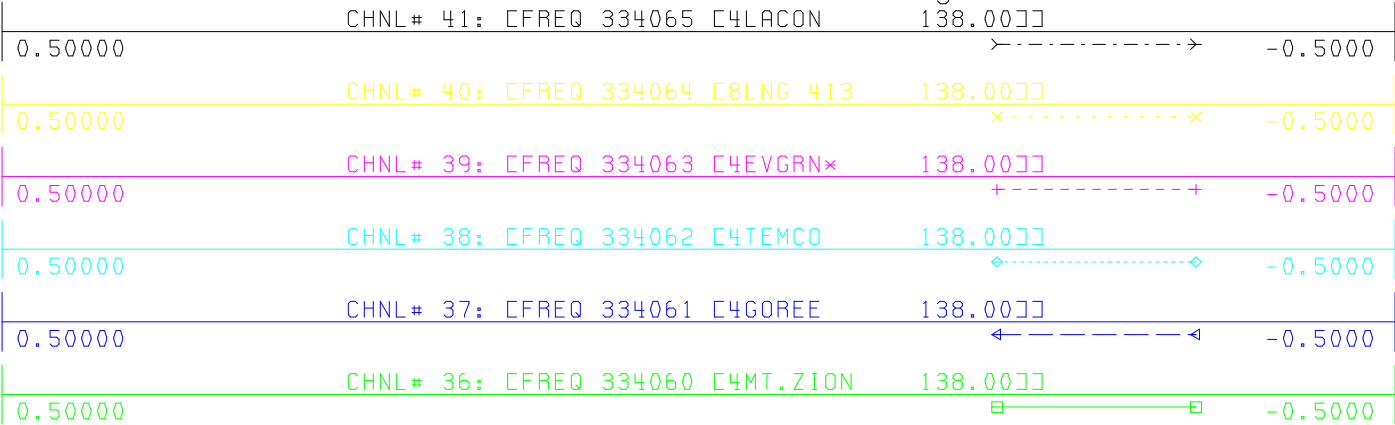


FRI, JUN 13 2008 10:18  
ANG & VOLT - PID-211 GENS



LC  
 LC-LONGMIRE, STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out



FRI, JUN 13 2008 10:18  
 MACHINE FREQUENCIES - 01

TIME (SECONDS)

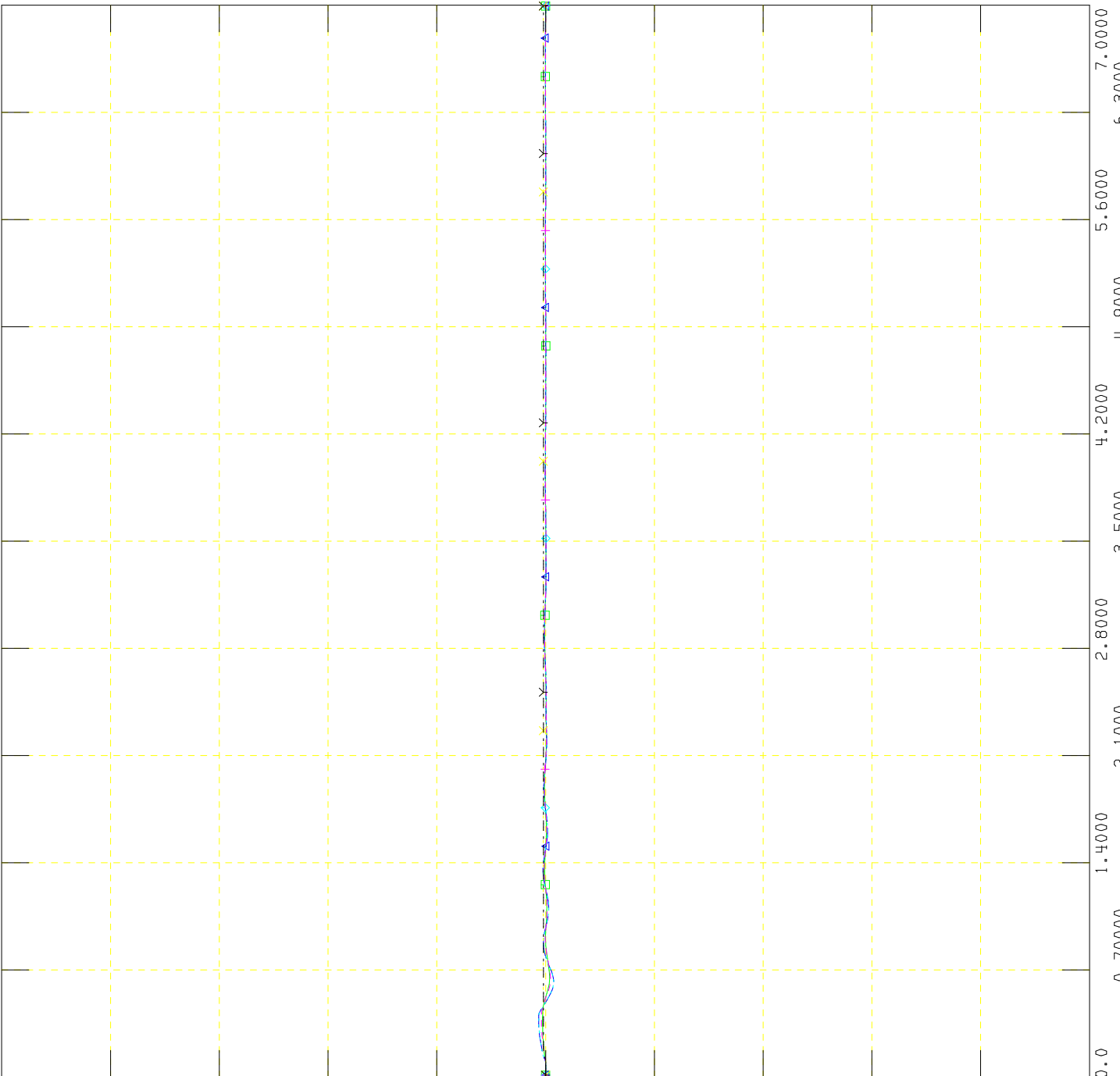




LC  
 LC-LONGMIRE, STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



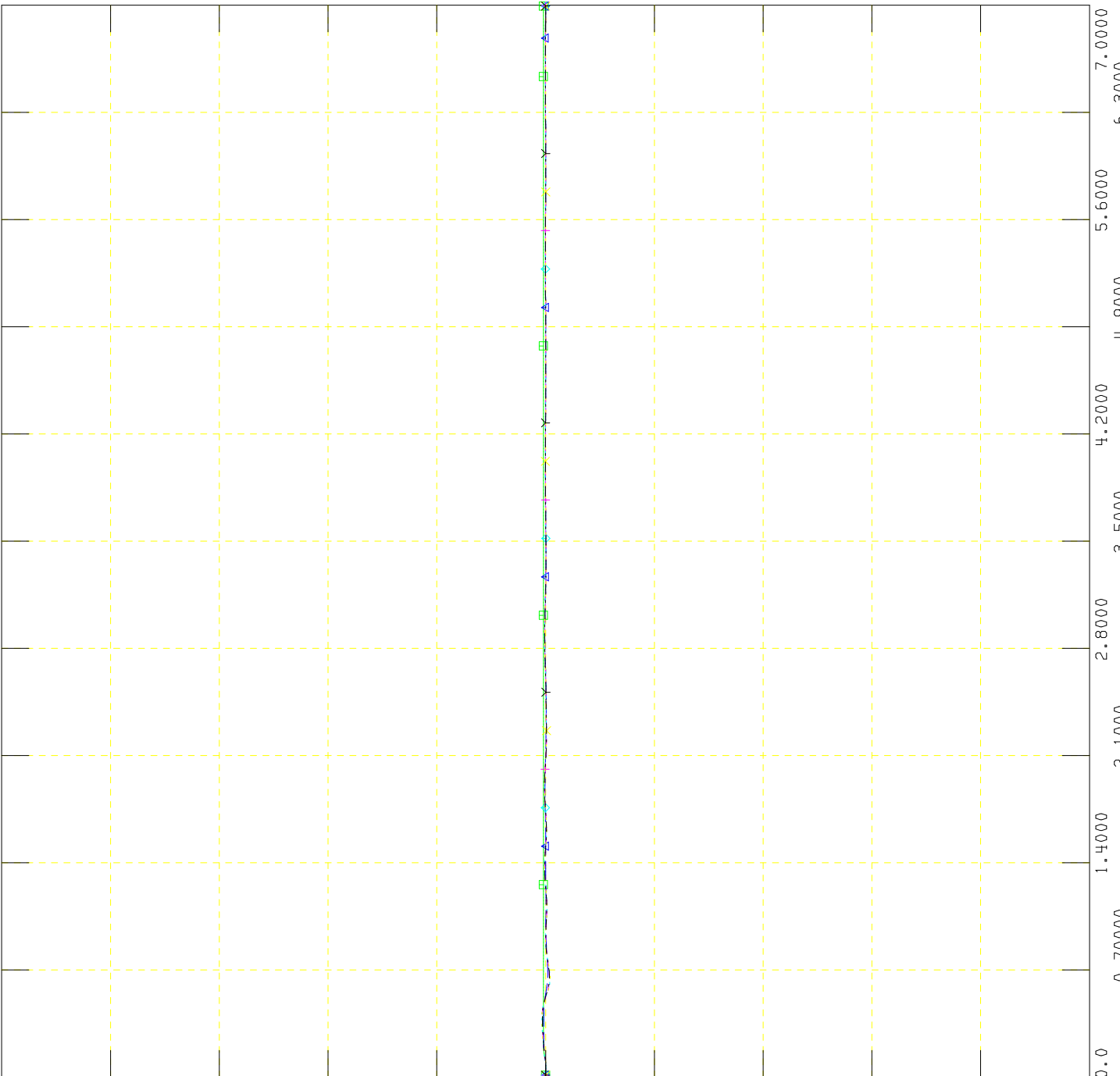
FRI, JUN 13 2008 10:18  
 MACHINE FREQUENCIES - 02



LC  
 LC-LONGMIRE, STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



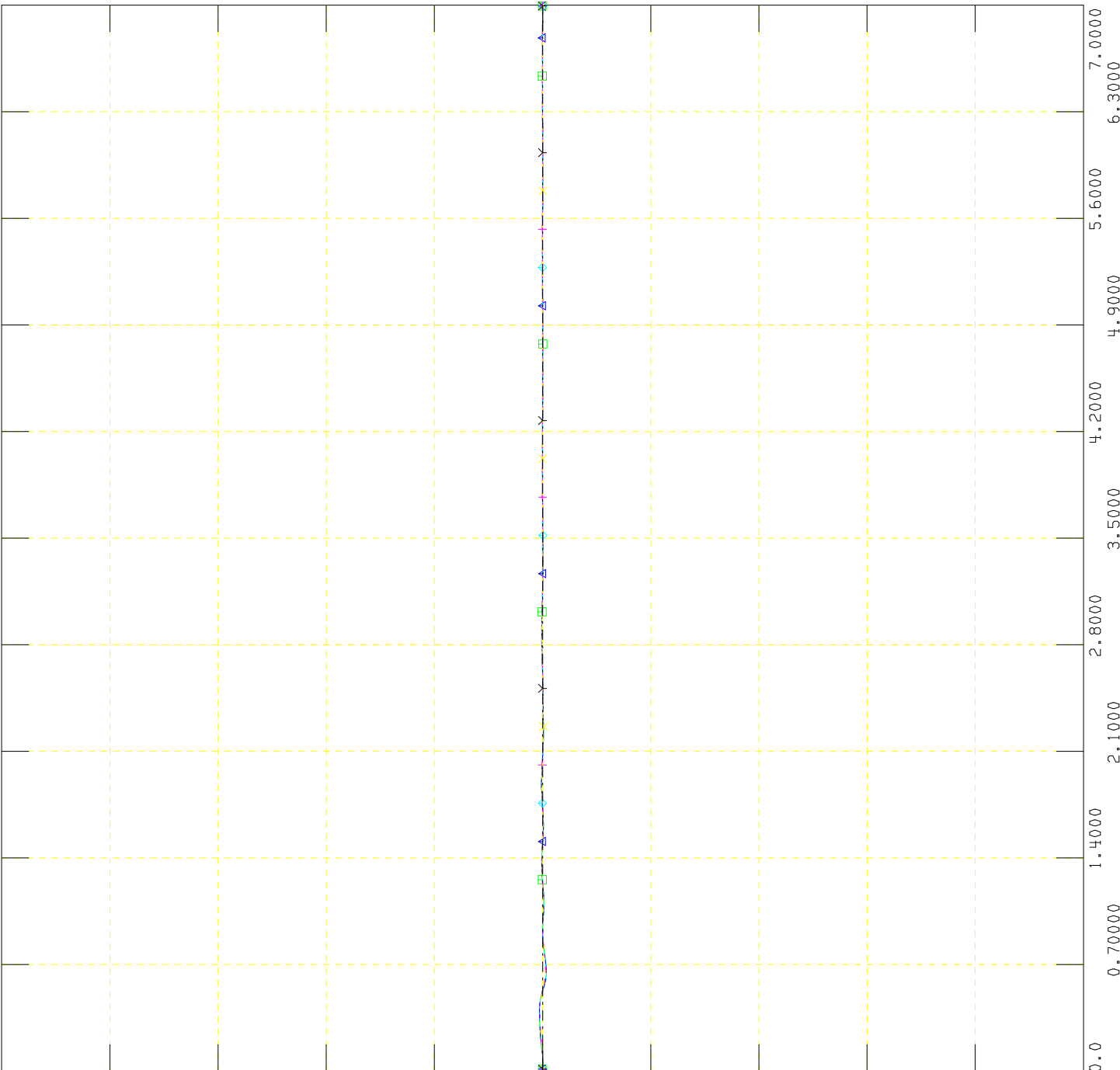
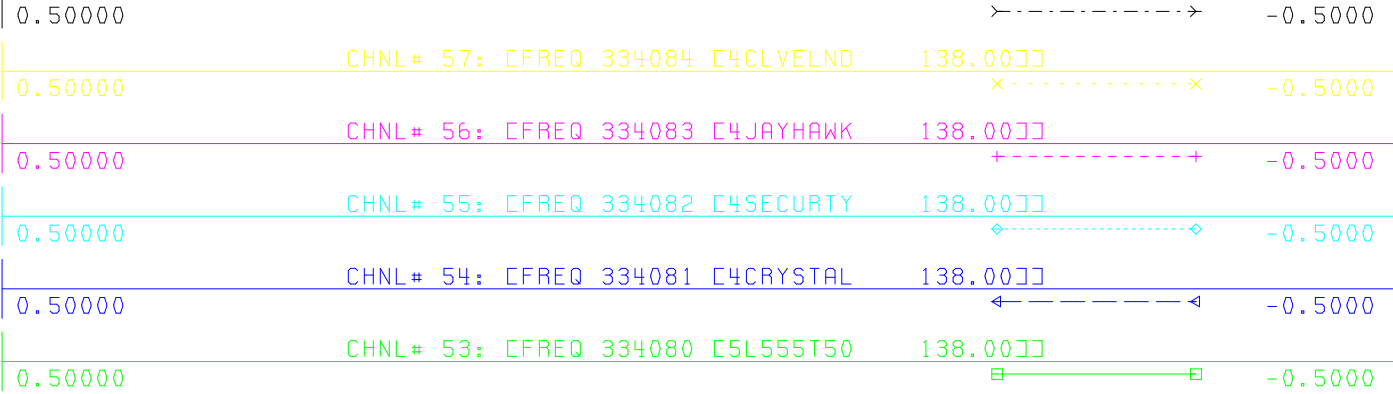
FRI, JUN 13 2008 10:18  
 MACHINE FREQUENCIES - 03



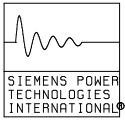
LC  
 LC-LONGMIRE, STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 10:18  
 MACHINE FREQUENCIES - 04

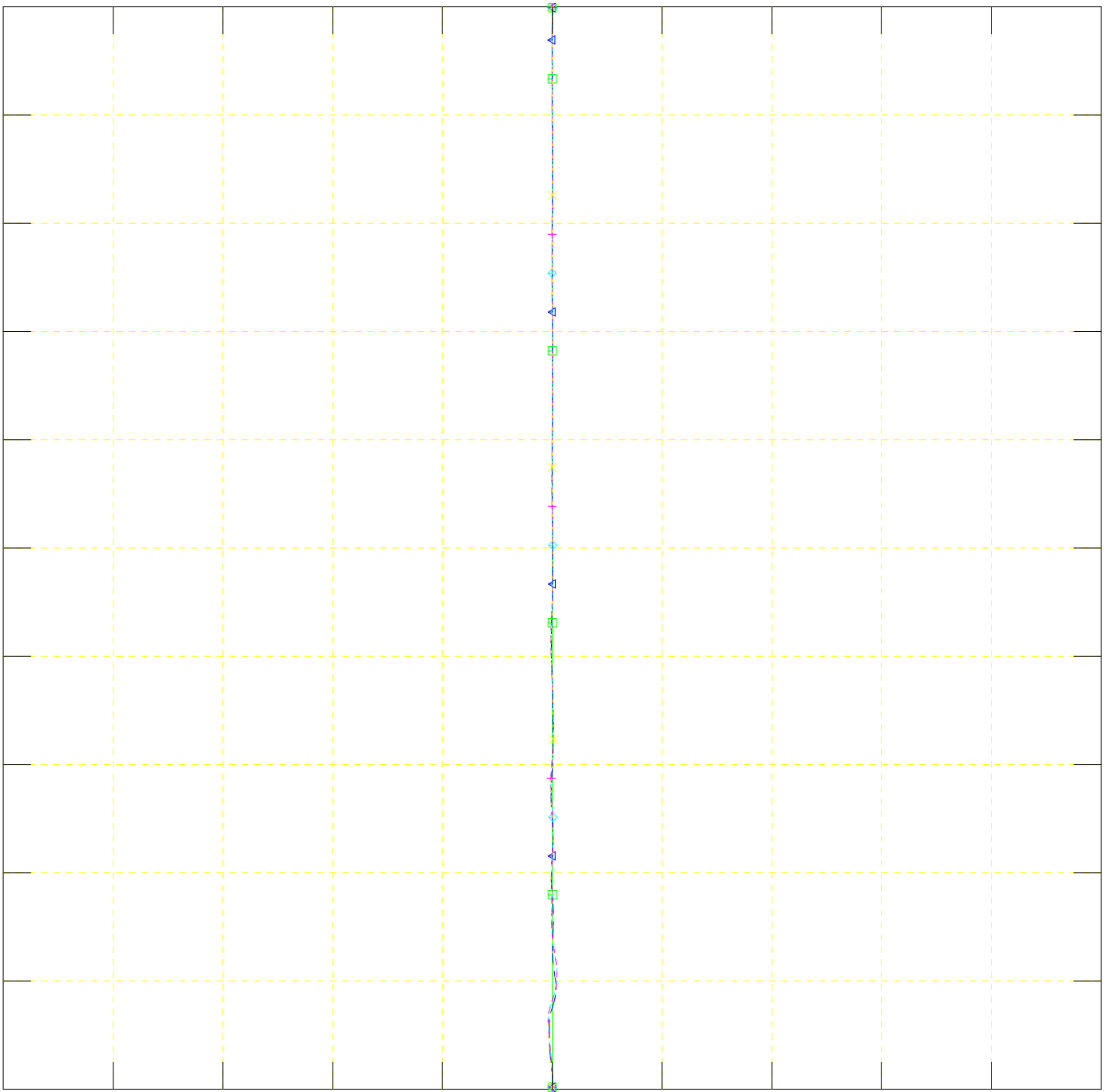


LC  
LC-LONGMIRE, STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

FRI, JUN 13 2008 10:18  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value	Symbol
CHNL# 63	CFREQ 99183 [G3PID211	18.000]]	x
CHNL# 62	CFREQ 99182 [G2PID211	18.000]]	+
CHNL# 61	CFREQ 99181 [G1PID211	18.000]]	◇
CHNL# 60	CFREQ 334090 [4ALDEN	138.00]]	△
CHNL# 59	CFREQ 334086 [6CONROE	230.00]]	□



0.50000  
0.50000  
0.50000  
0.50000  
0.50000  
-0.50000  
-0.50000  
-0.50000  
-0.50000  
-0.50000

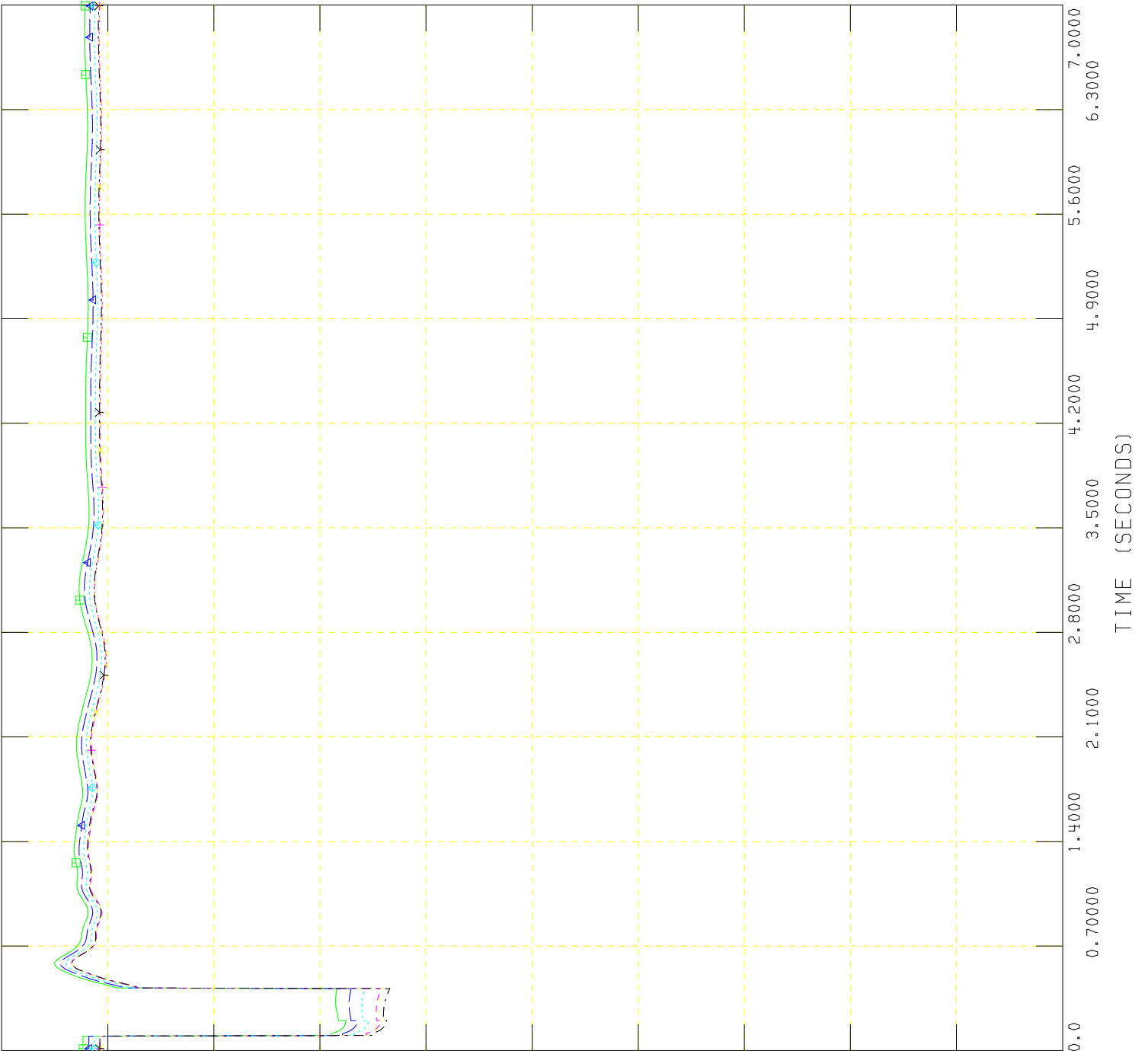
7.0000  
6.3000  
5.6000  
4.9000  
4.2000  
3.5000  
2.8000  
2.1000  
1.4000  
0.70000  
0.0



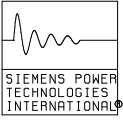
LC  
LC-LONGMIRE, STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



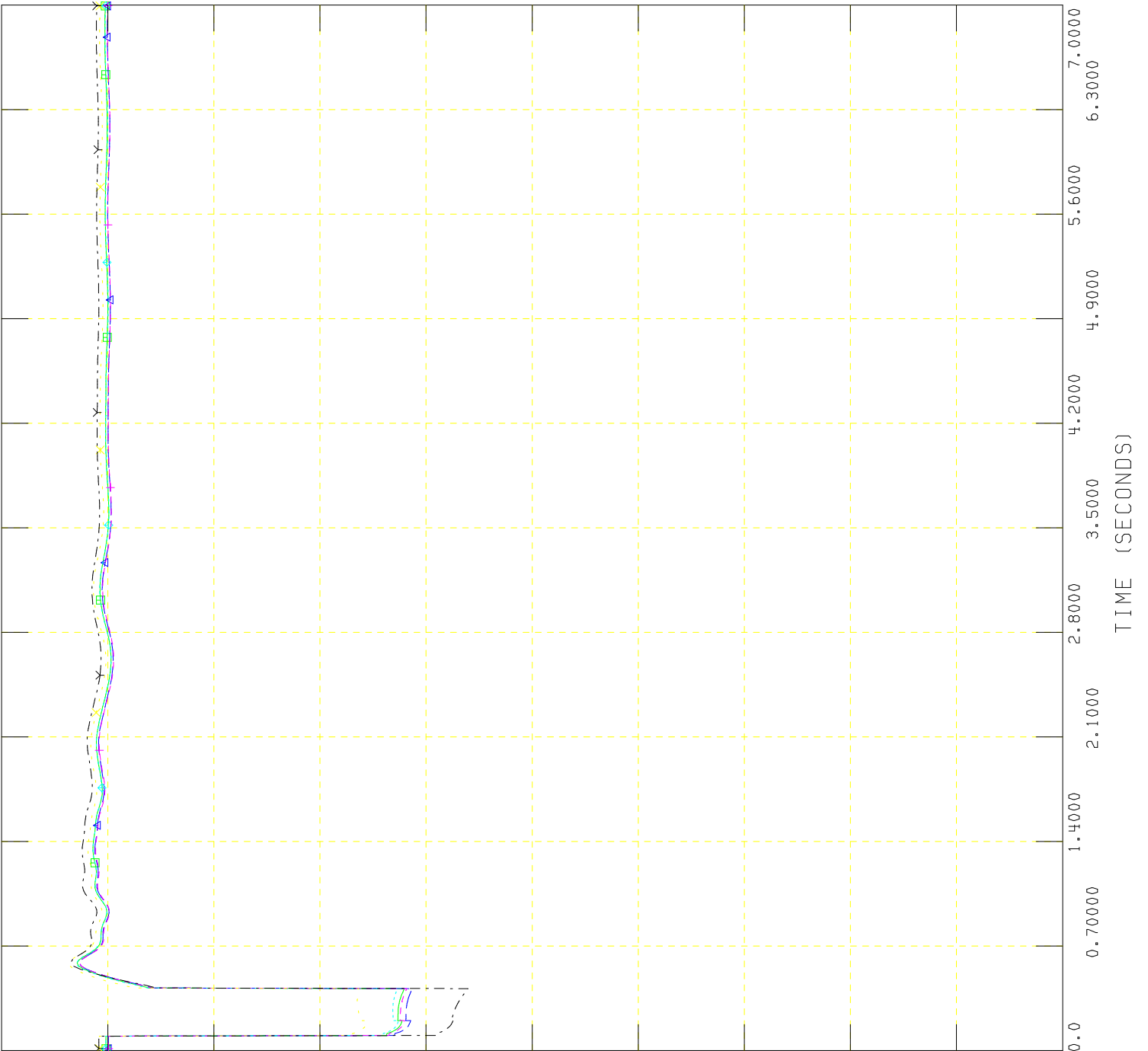
FRI, JUN 13 2008 10:18  
BUS VOLTAGES - 01



LC  
 LC-LONGMIRE, STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



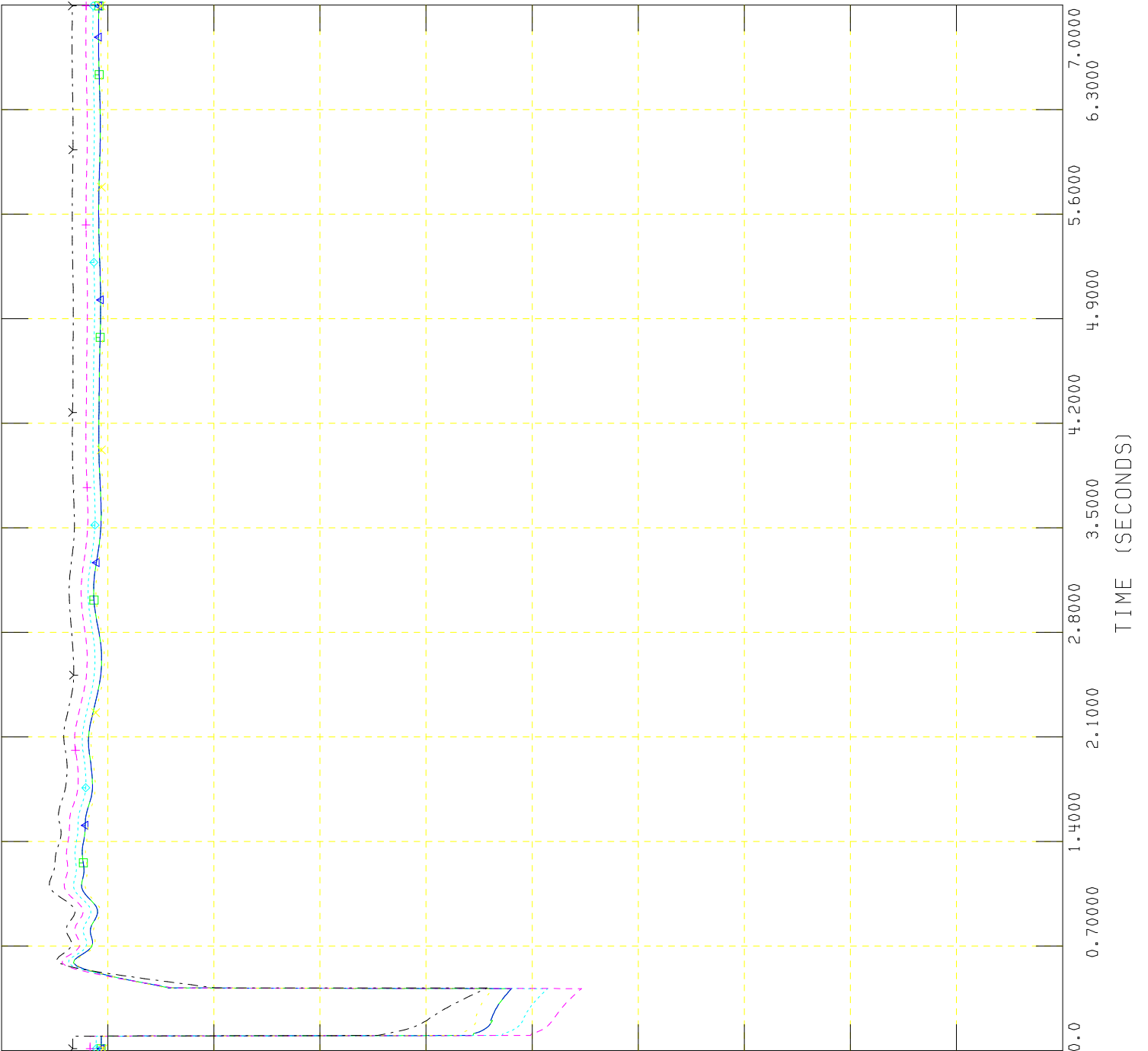
FRI, JUN 13 2008 10:18  
 BUS VOLTAGES - 02



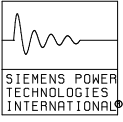
LC  
LC-LONGMIRE, STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



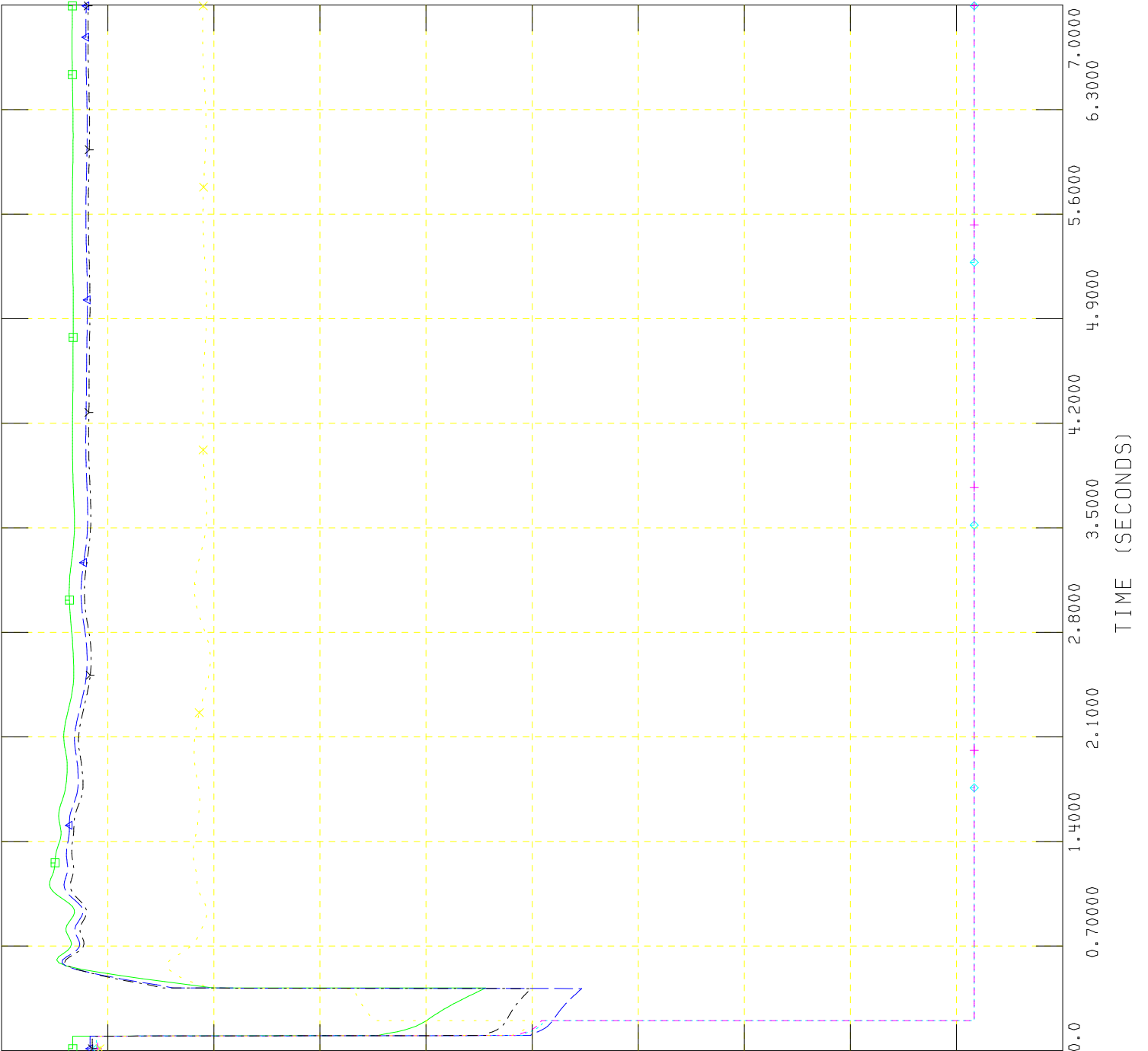
FRI, JUN 13 2008 10:18  
BUS VOLTAGES - 03



LC  
LC-LONGMIRE, STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



FRI, JUN 13 2008 10:18  
BUS VOLTAGES - 04

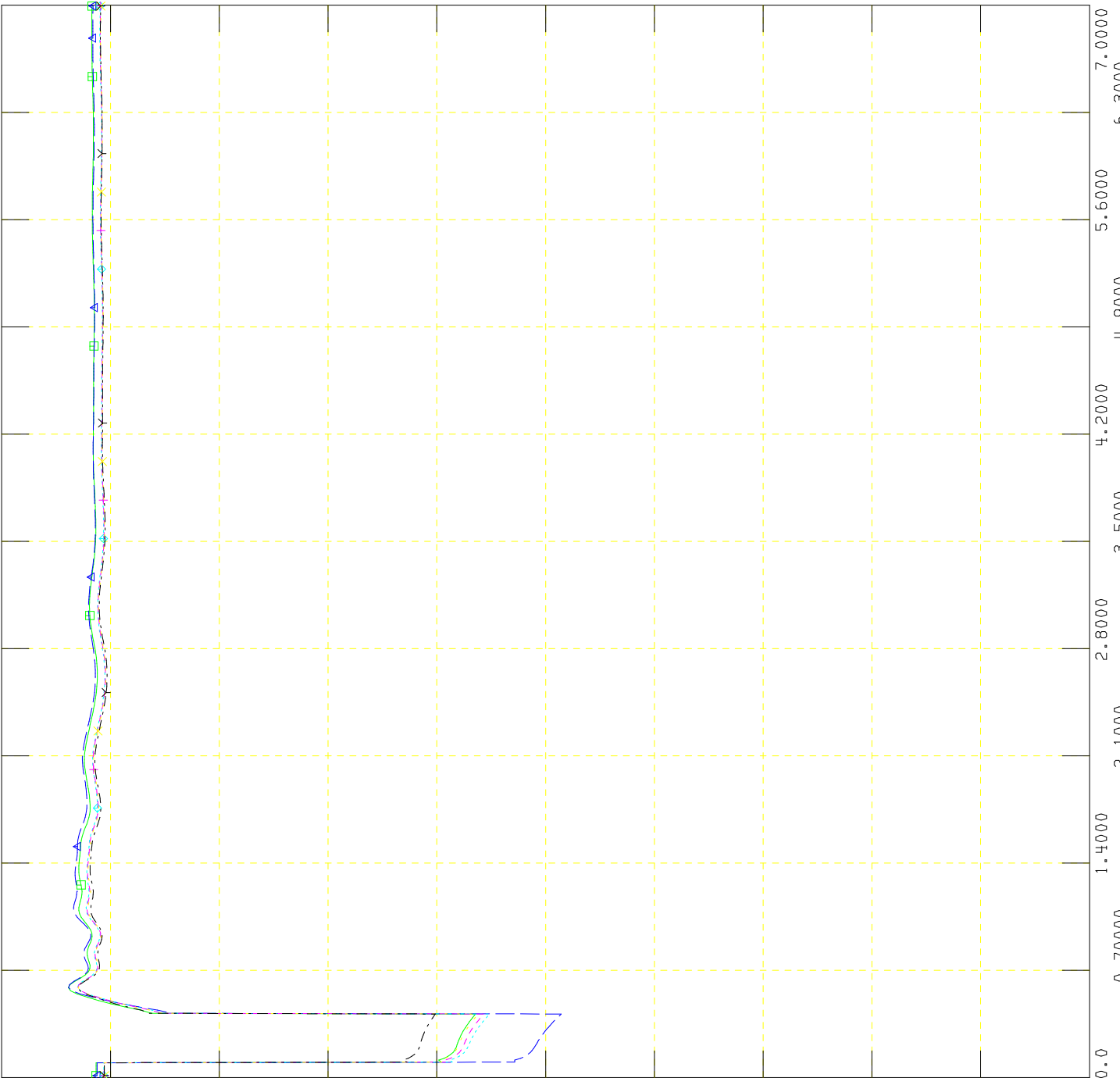




LC  
 LC-LONGMIRE, STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



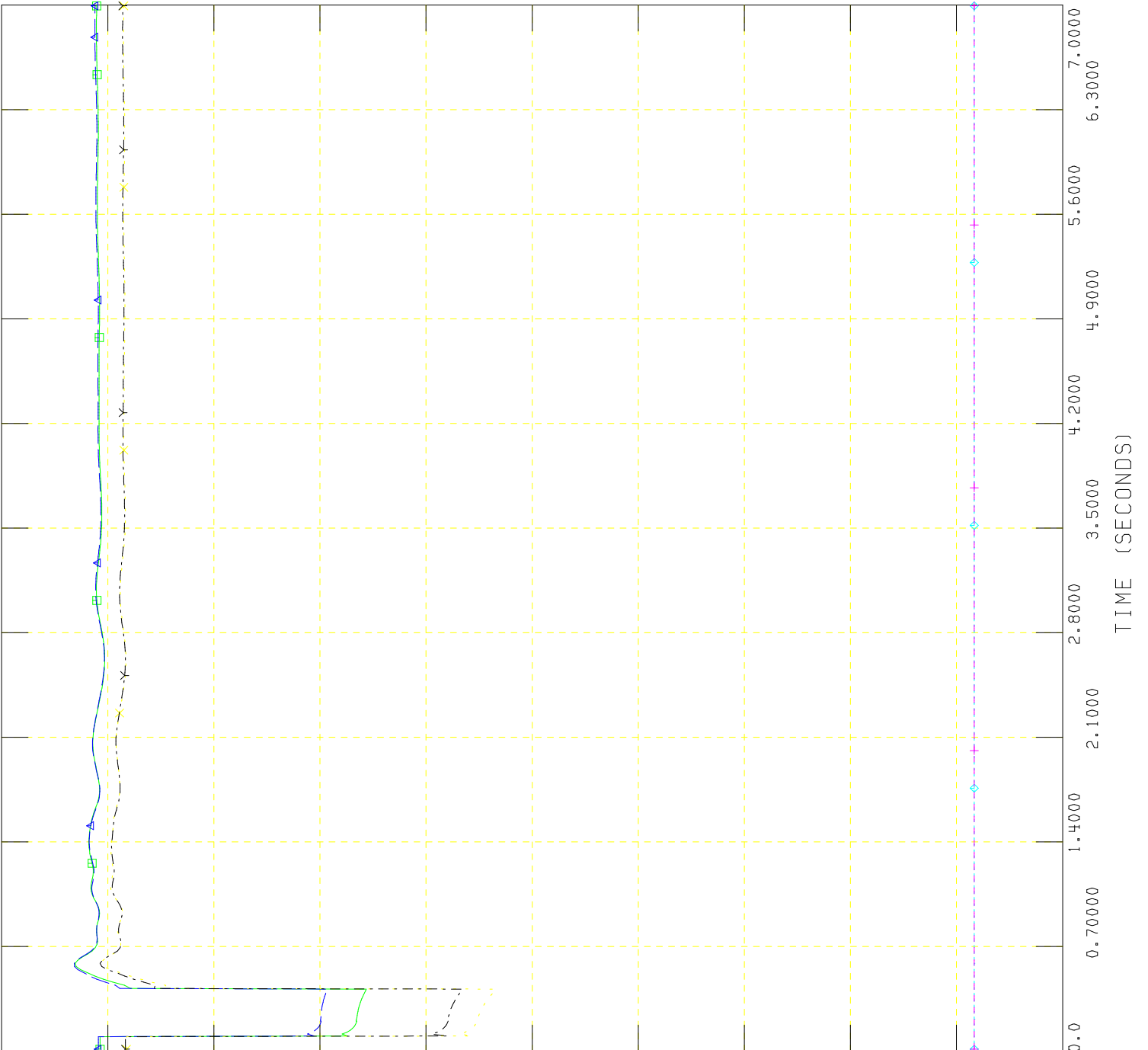
FRI, JUN 13 2008 10:18  
 BUS VOLTAGES - 05



LC  
 LC-LONGMIRE, STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



FRI, JUN 13 2008 10:18  
 BUS VOLTAGES - 06

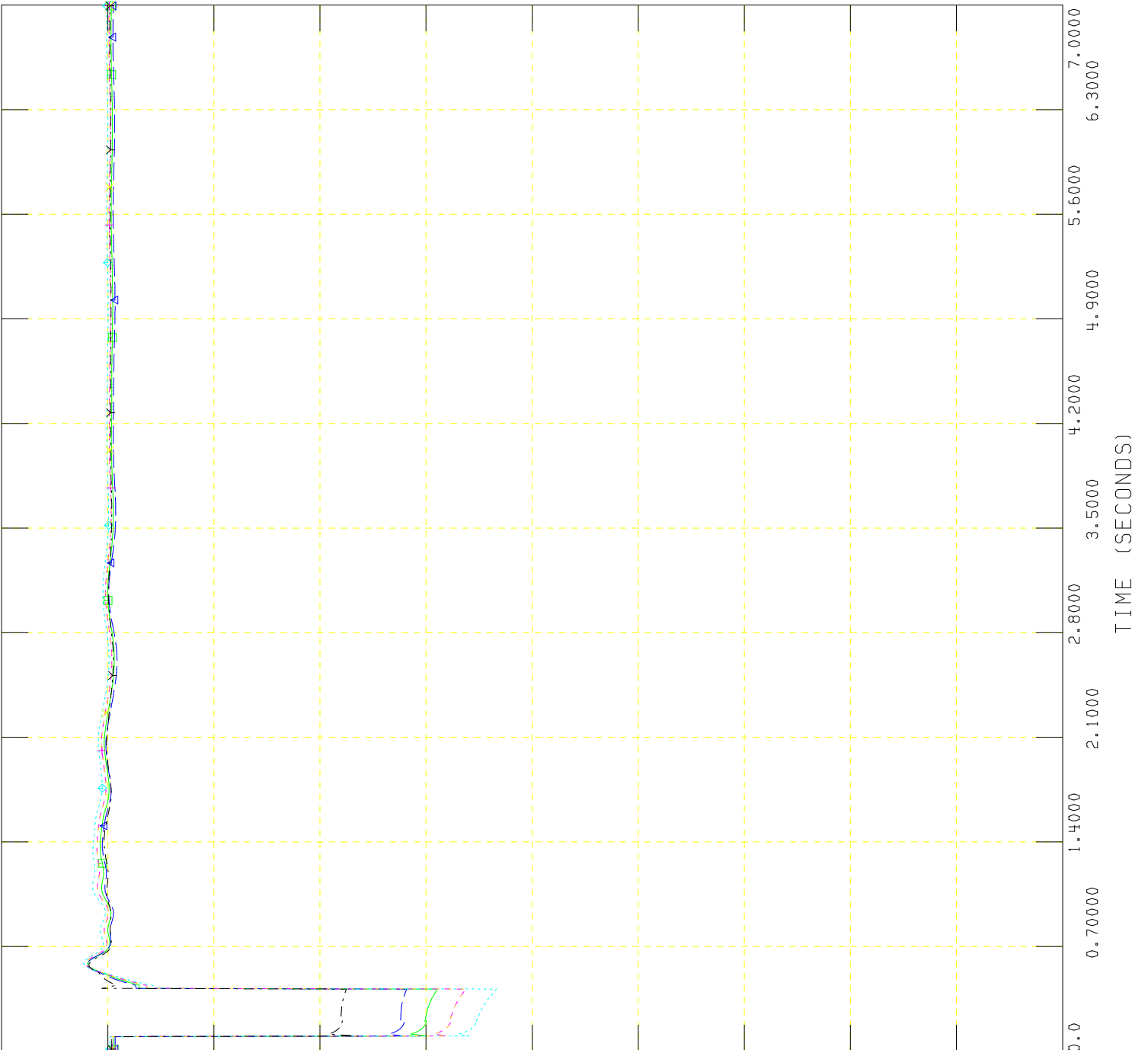




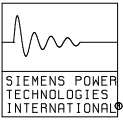
LC  
LC-LONGMIRE, STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



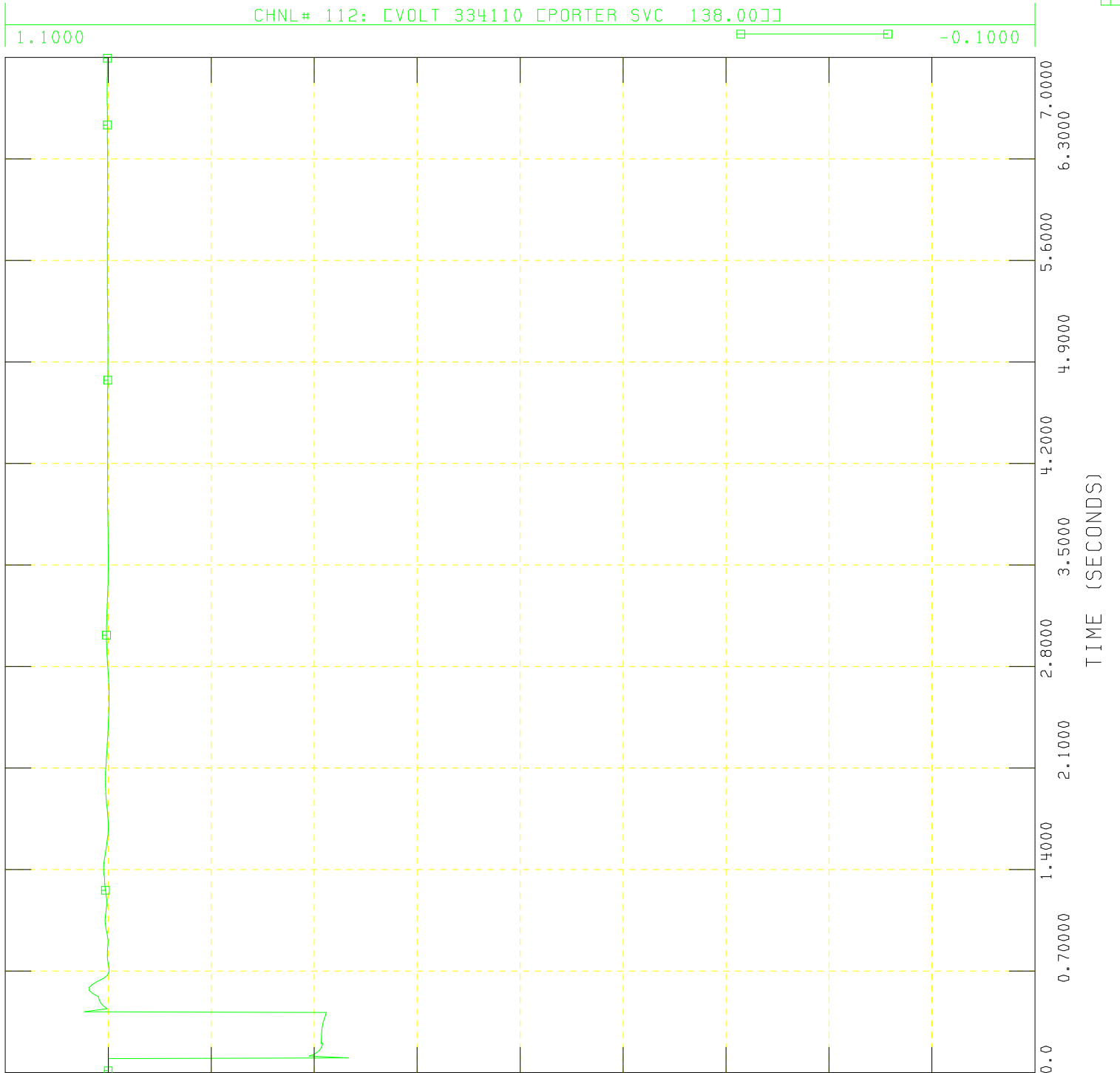
FRI, JUN 13 2008 10:18  
BUS VOLTAGES - 08



LC  
LC-LONGMIRE, STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Longmire-1a.out

FRI, JUN 13 2008 10:18  
BUS VOLTAGES - 09



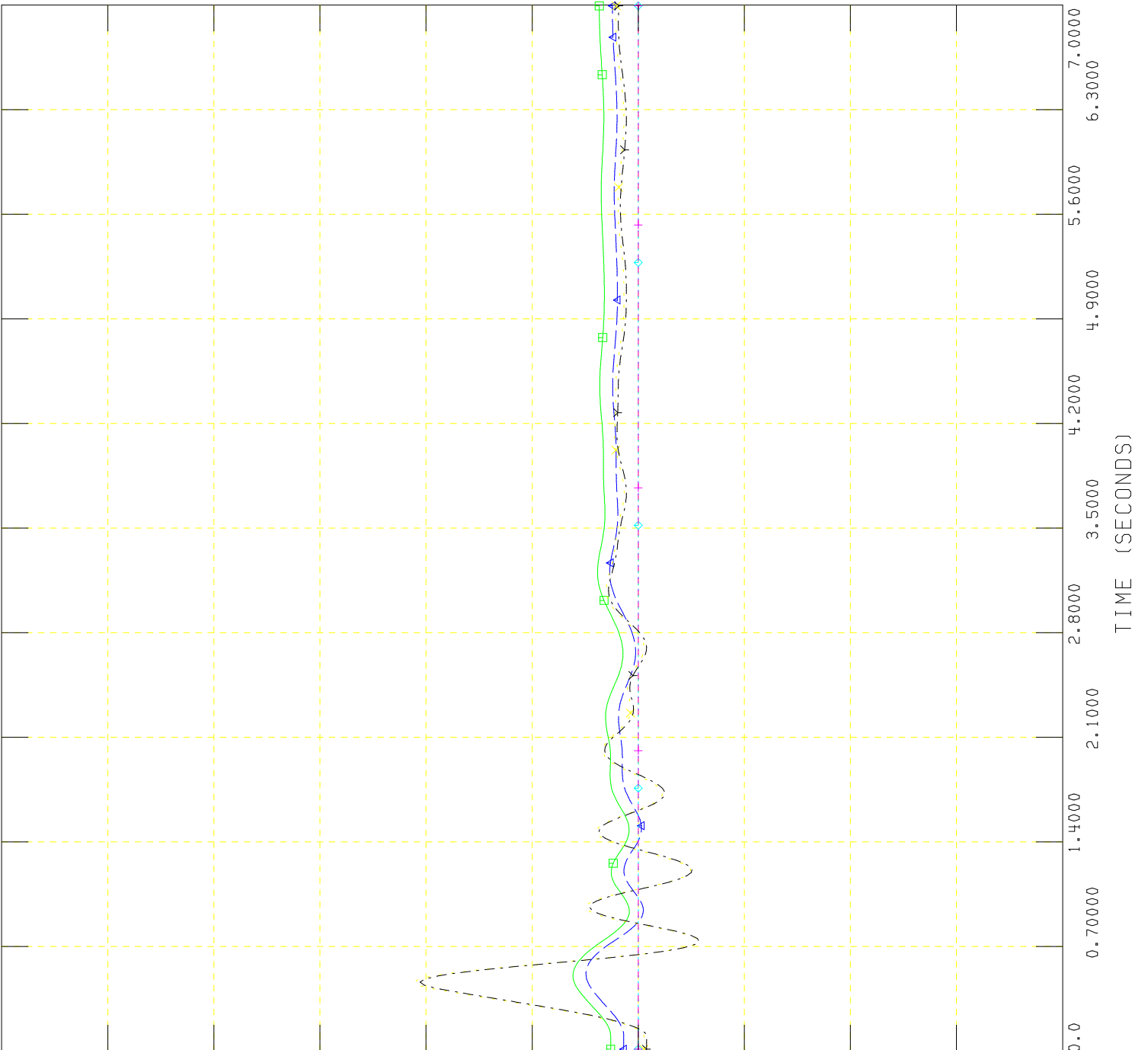
**FAULT 2a**  
**Lewis Creek – Alden 138 kV**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**



LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

Channel	Label	Value
6	CHANL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHANL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHANL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHANL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHANL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHANL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



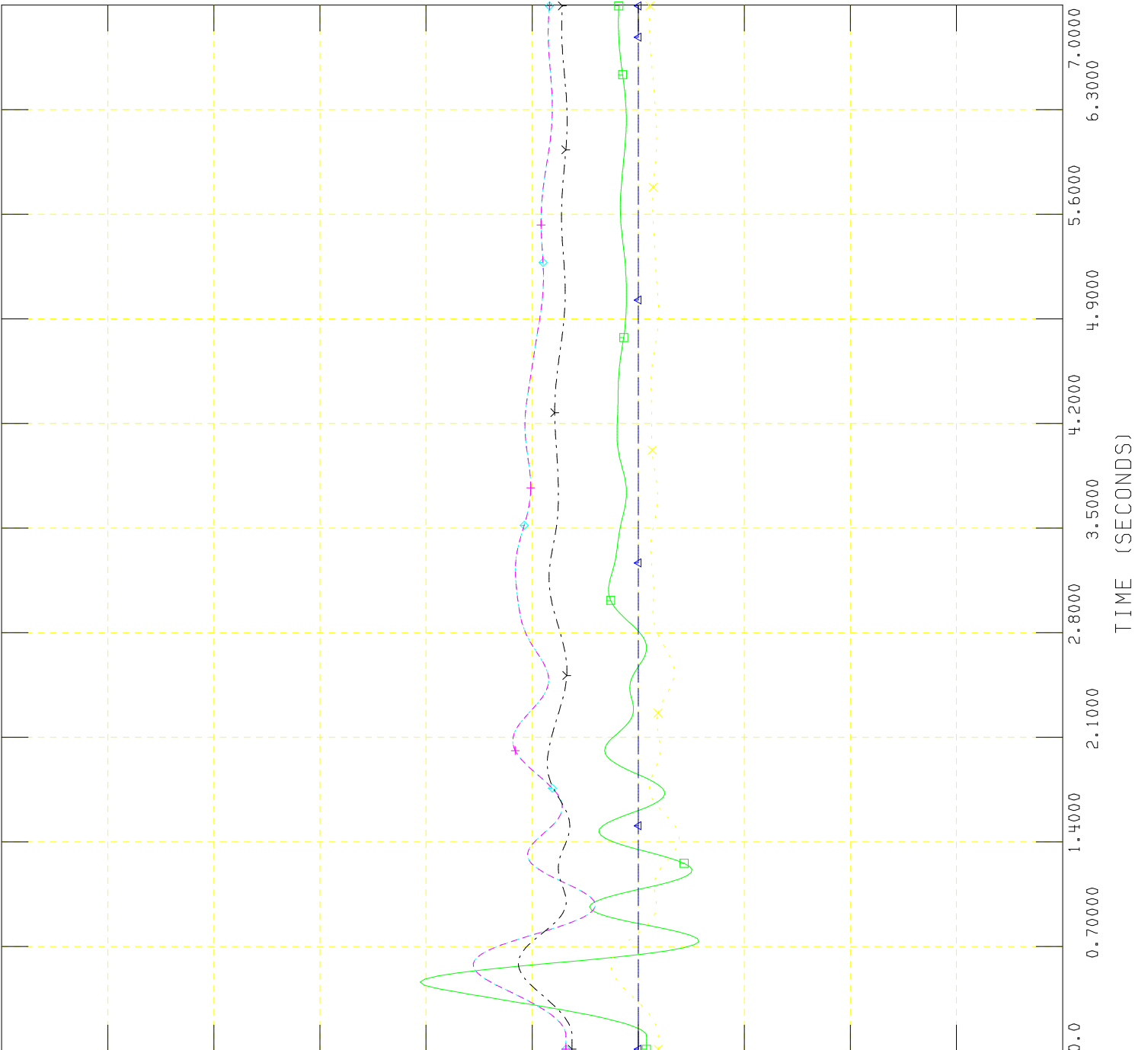
FRI, JUN 13 2008 10:22  
MACHINE ANGLES - 01



LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

Channel	Label	Value
150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0



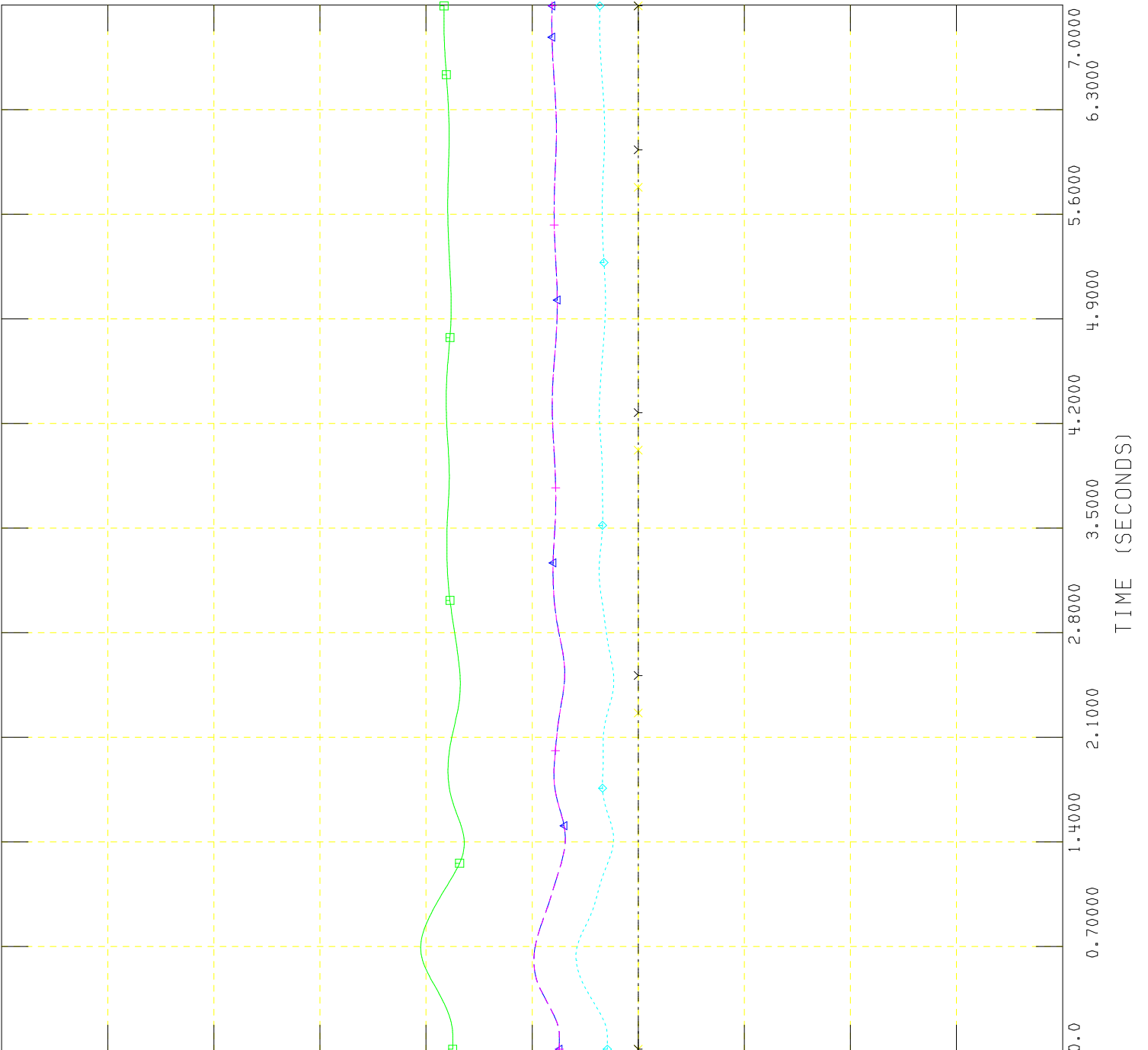
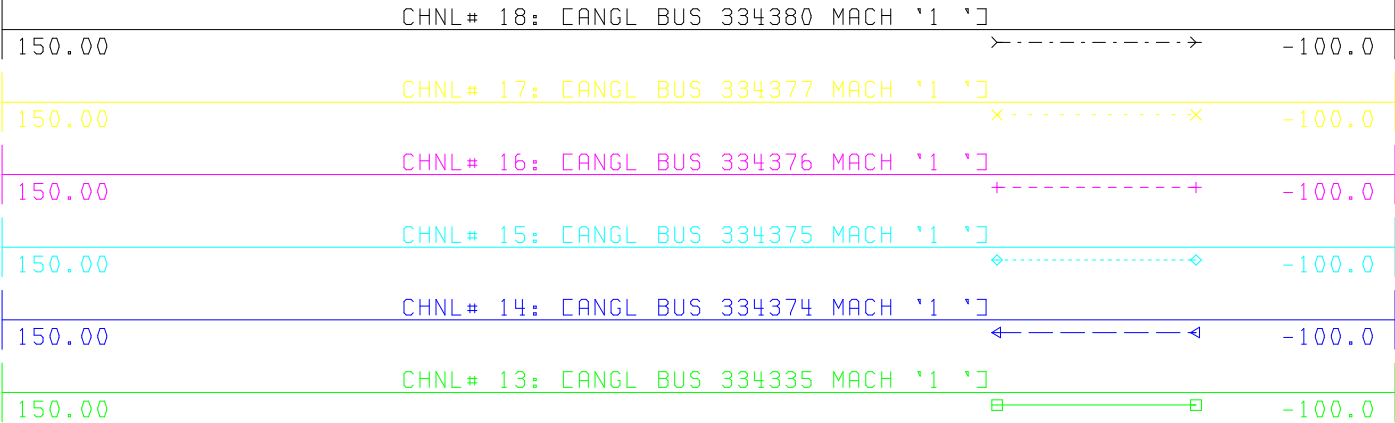
FRI, JUN 13 2008 10:22  
MACHINE ANGLES - 02



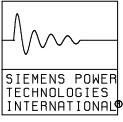


LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out



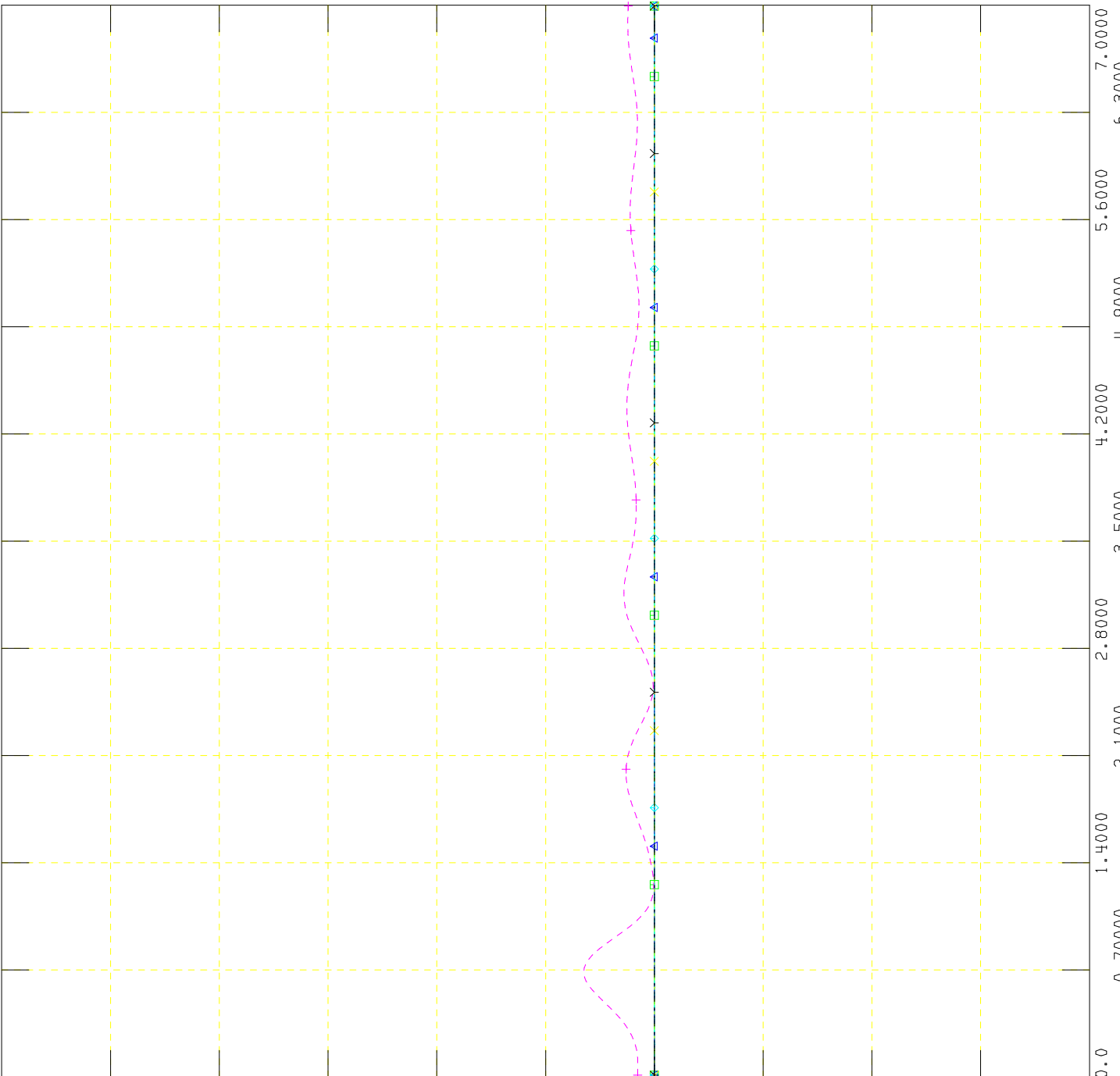
FRI, JUN 13 2008 10:22  
MACHINE ANGLES - 03



LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0

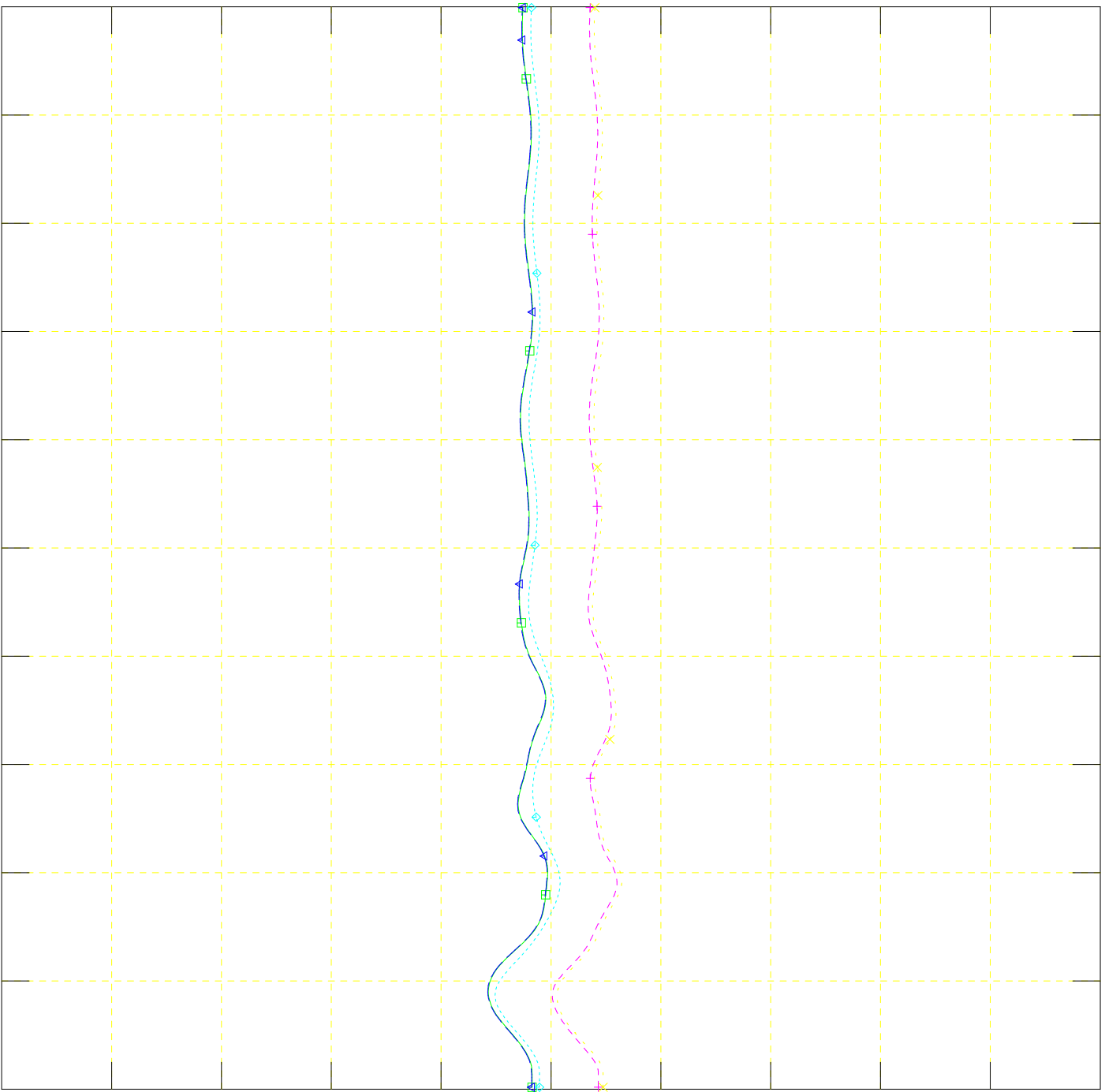
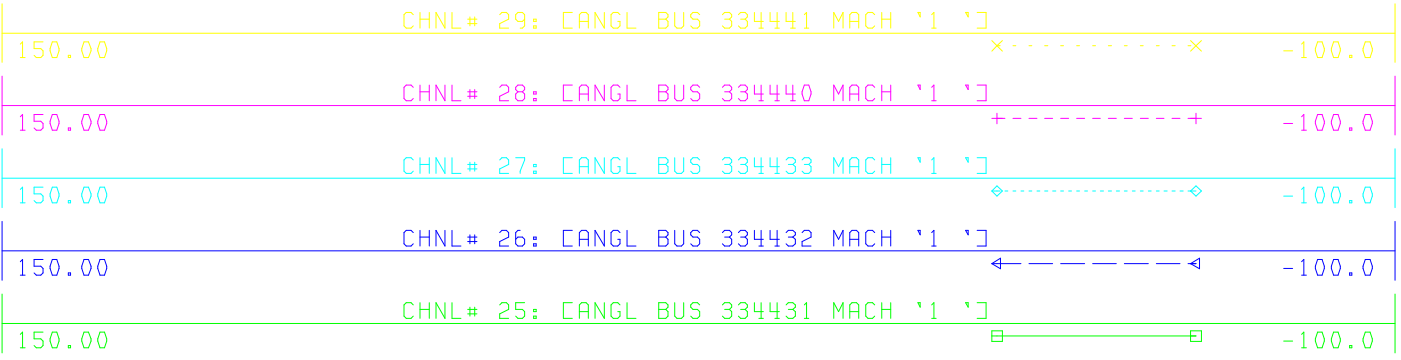


FRI, JUN 13 2008 10:22  
MACHINE ANGLES - 04



LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out



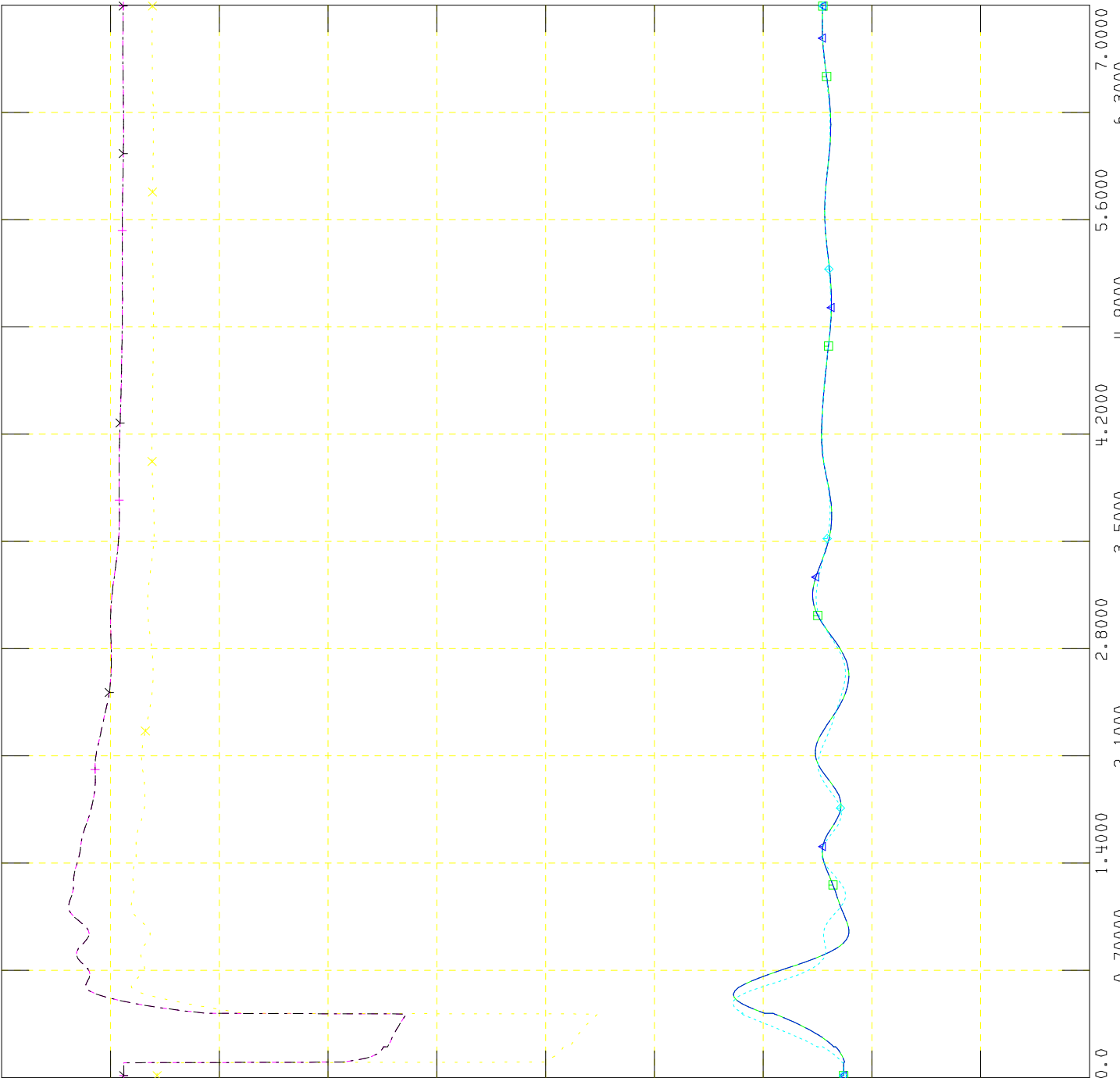
FRI, JUN 13 2008 10:22  
MACHINE ANGLES - 05



LC  
 LC-ALDEN, STUCK BRKR CONDITIONS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0

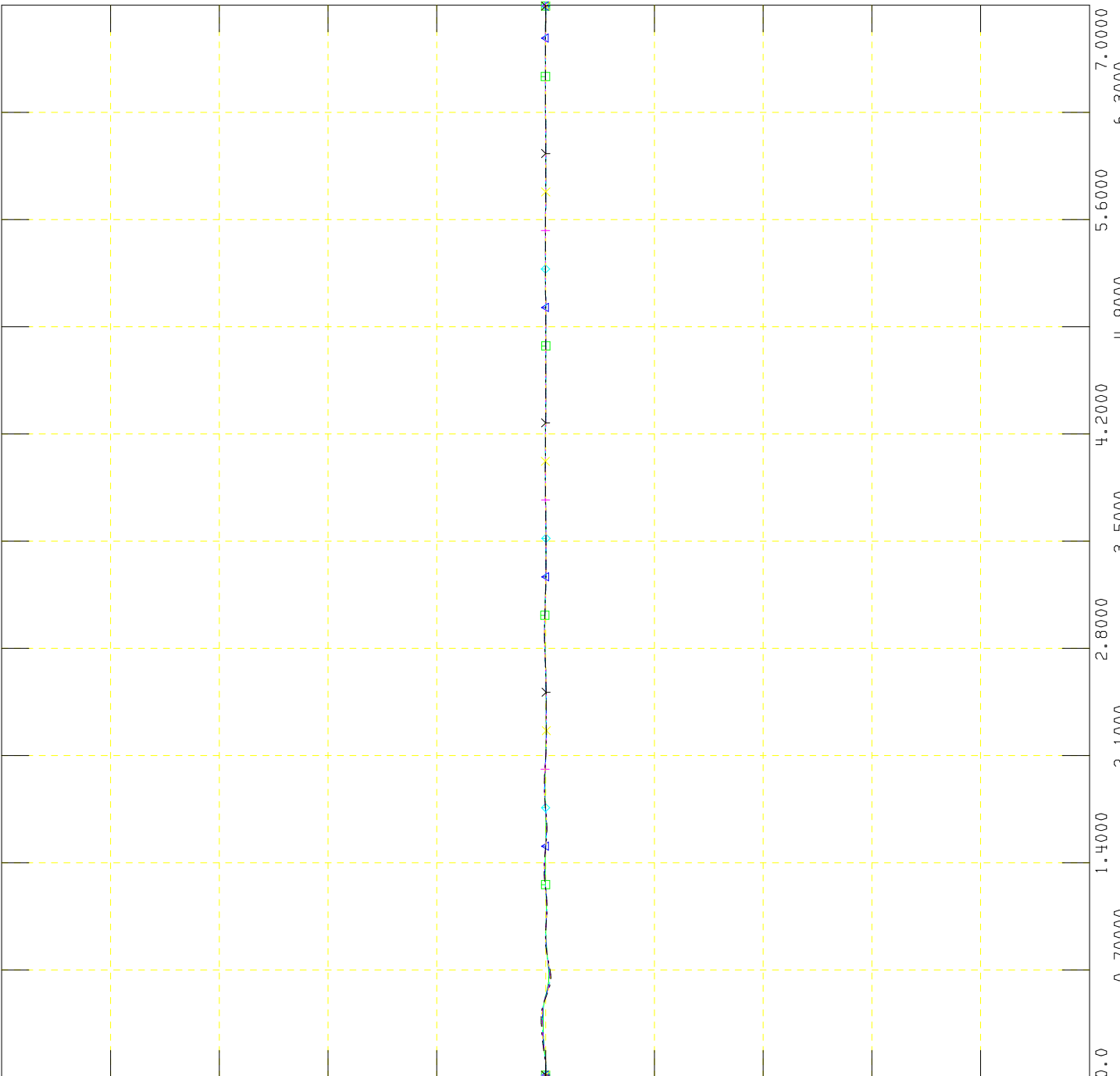
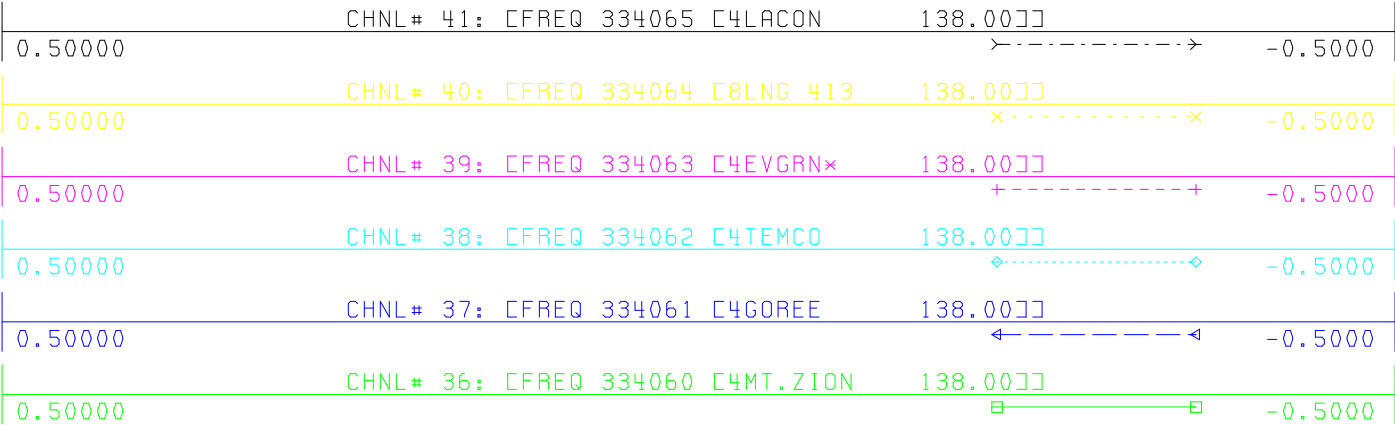


FRI, JUN 13 2008 10:22  
 ANG & VOLT - PID-211 GENS



LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out



FRI, JUN 13 2008 10:22  
MACHINE FREQUENCIES - 01

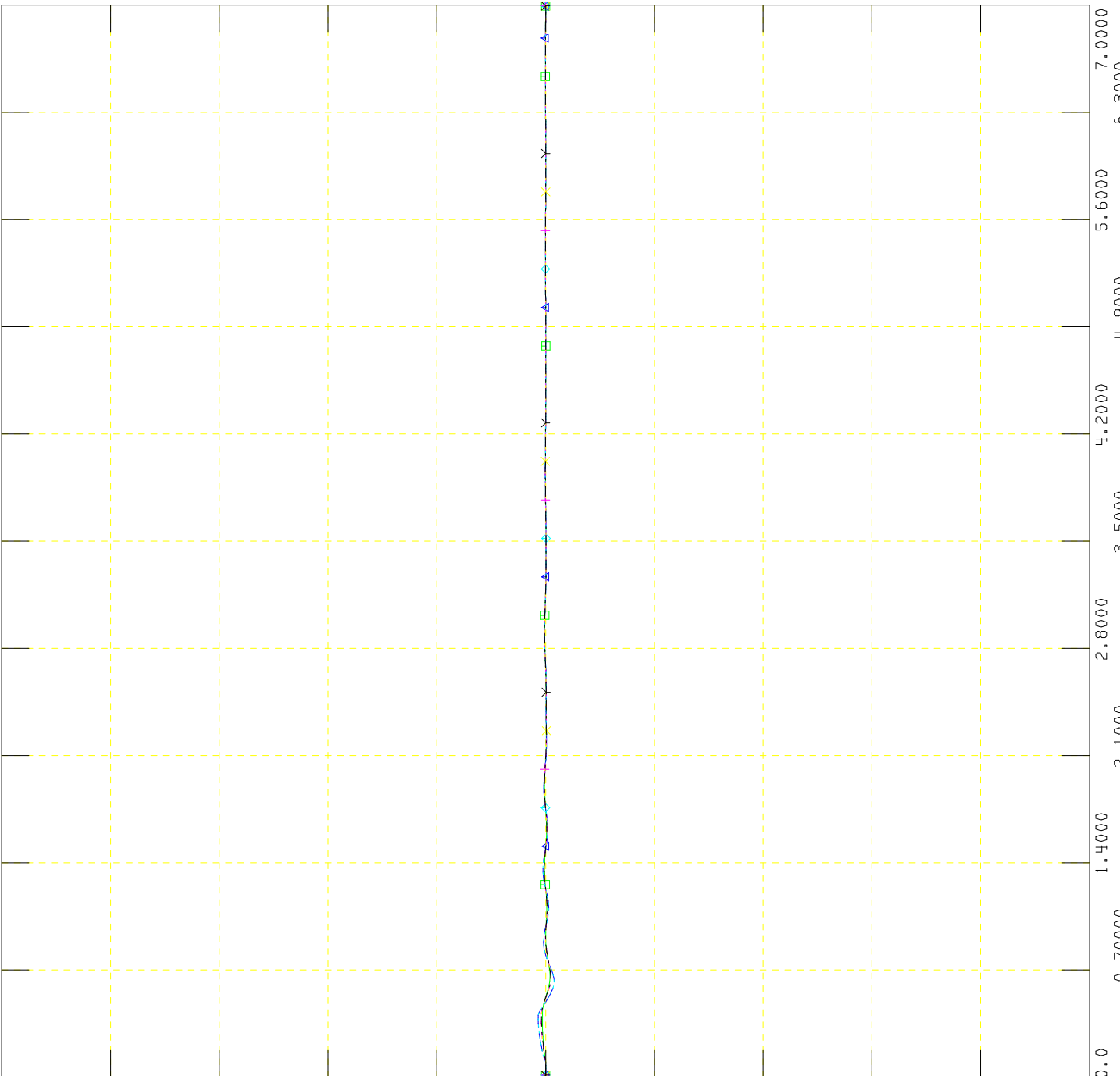
TIME (SECONDS)



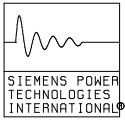
LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

0.50000	CHNL# 47: CFREQ 334074 C4PANORAM 138.0000	-0.50000
0.50000	CHNL# 46: CFREQ 334073 C4EGYPT 138.0000	-0.50000
0.50000	CHNL# 45: CFREQ 334072 C4LEWIS 138.0000	-0.50000
0.50000	CHNL# 44: CFREQ 334071 C62LEWIS 22.0000	-0.50000
0.50000	CHNL# 43: CFREQ 334070 C61LEWIS 22.0000	-0.50000
0.50000	CHNL# 42: CFREQ 334066 C4GEORGIA 138.0000	-0.50000

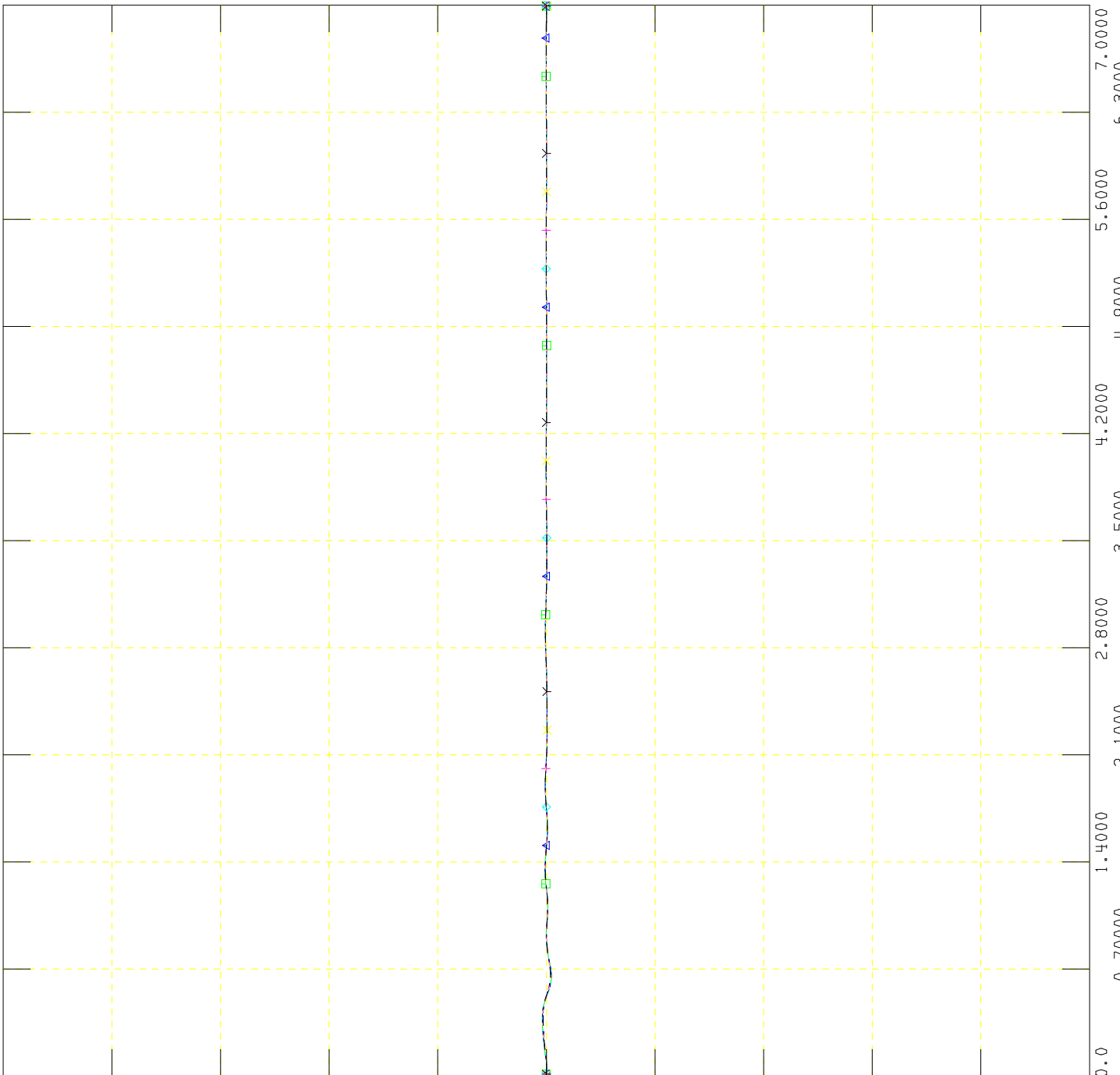
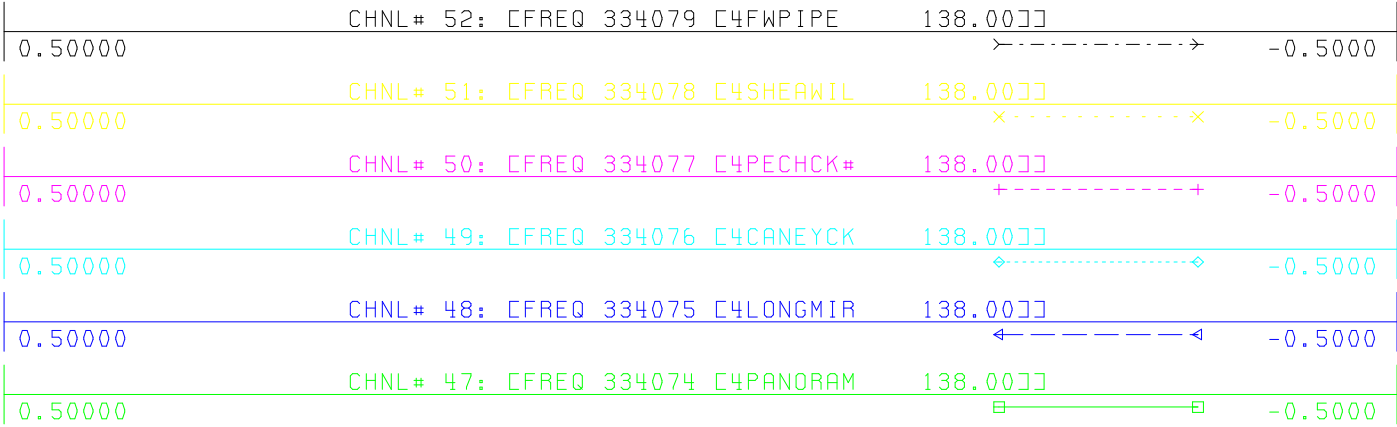


FRI, JUN 13 2008 10:22  
MACHINE FREQUENCIES - 02

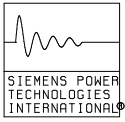


LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out



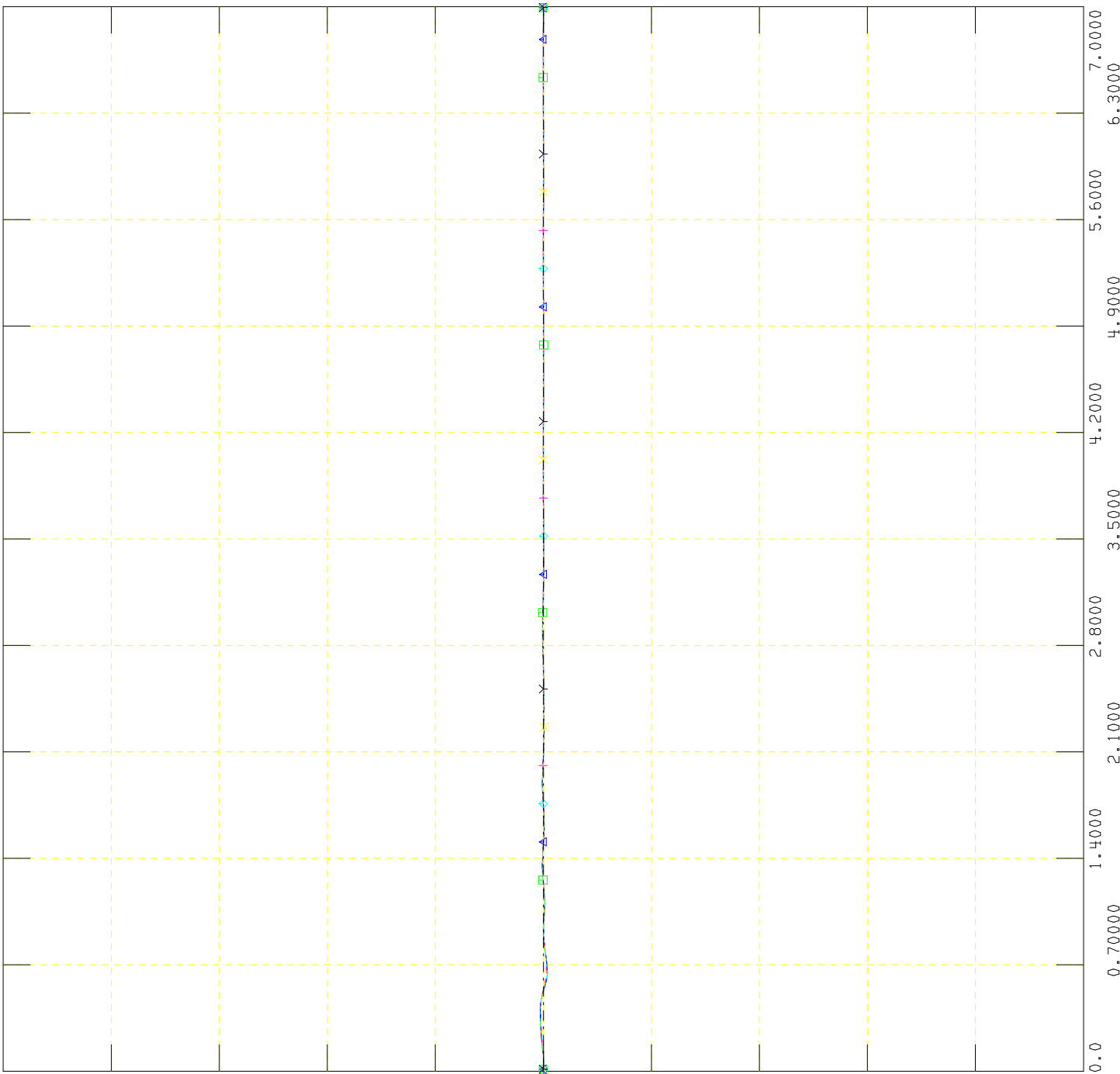
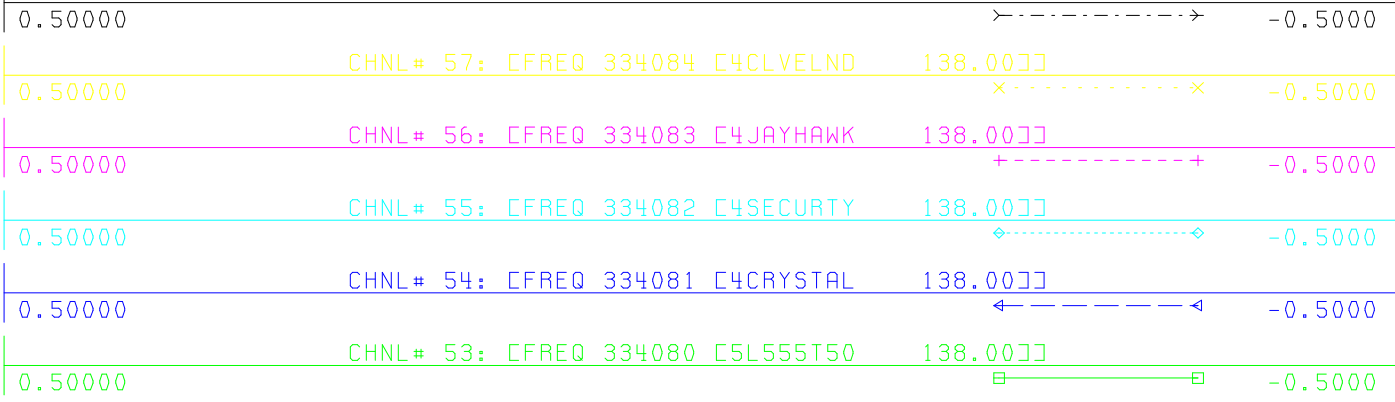
FRI, JUN 13 2008 10:22  
MACHINE FREQUENCIES - 03



LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 10:22  
MACHINE FREQUENCIES - 04



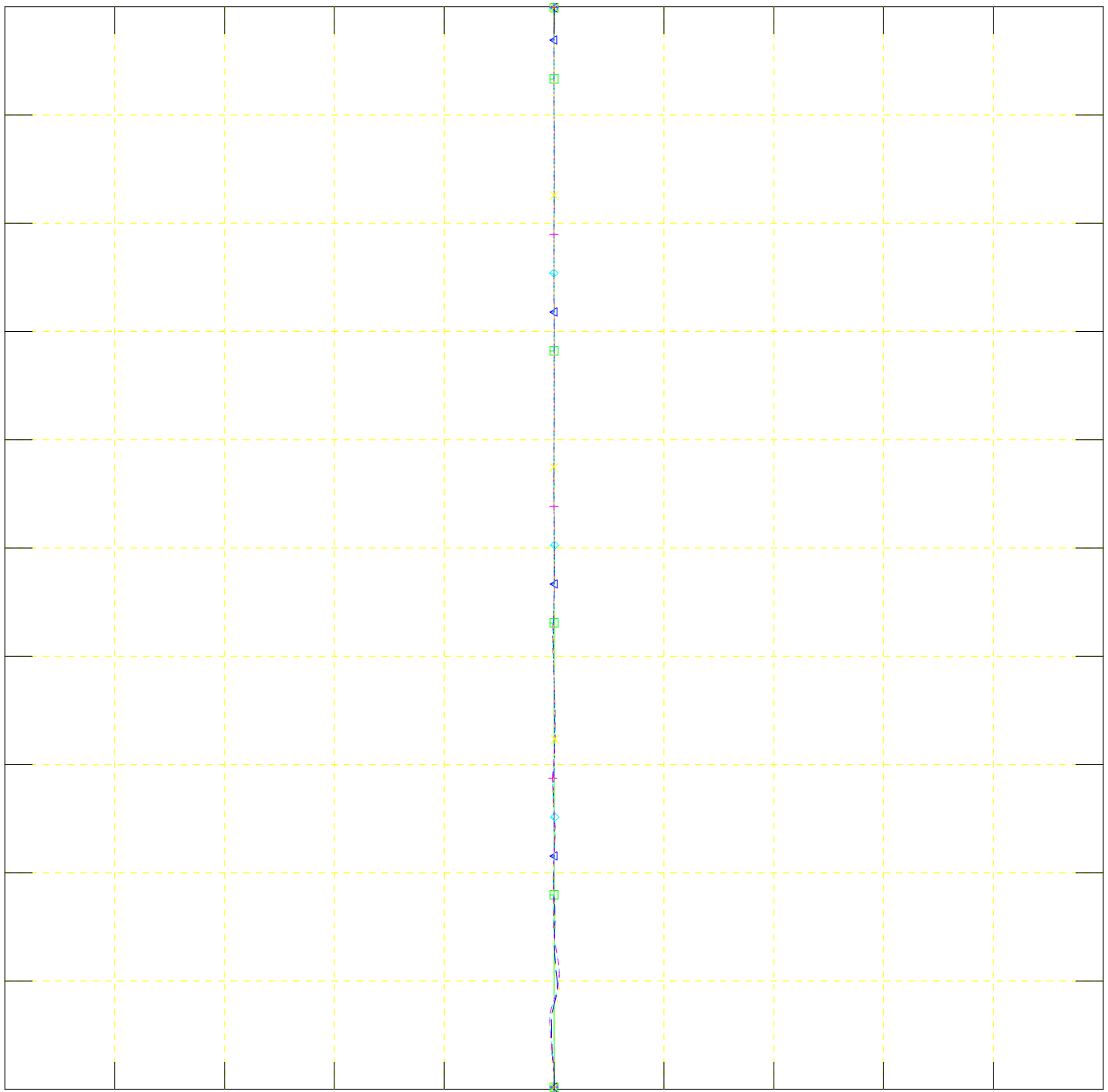


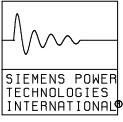
LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

FRI, JUN 13 2008 10:22  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value	Scale
CHNL# 63: [FREQ 99183 [G3PID211	18.000]]	0.50000	-0.5000
CHNL# 62: [FREQ 99182 [G2PID211	18.000]]	0.50000	-0.5000
CHNL# 61: [FREQ 99181 [G1PID211	18.000]]	0.50000	-0.5000
CHNL# 60: [FREQ 334090 [4ALDEN	138.00]]	0.50000	-0.5000
CHNL# 59: [FREQ 334086 [6CONROE	230.00]]	0.50000	-0.5000

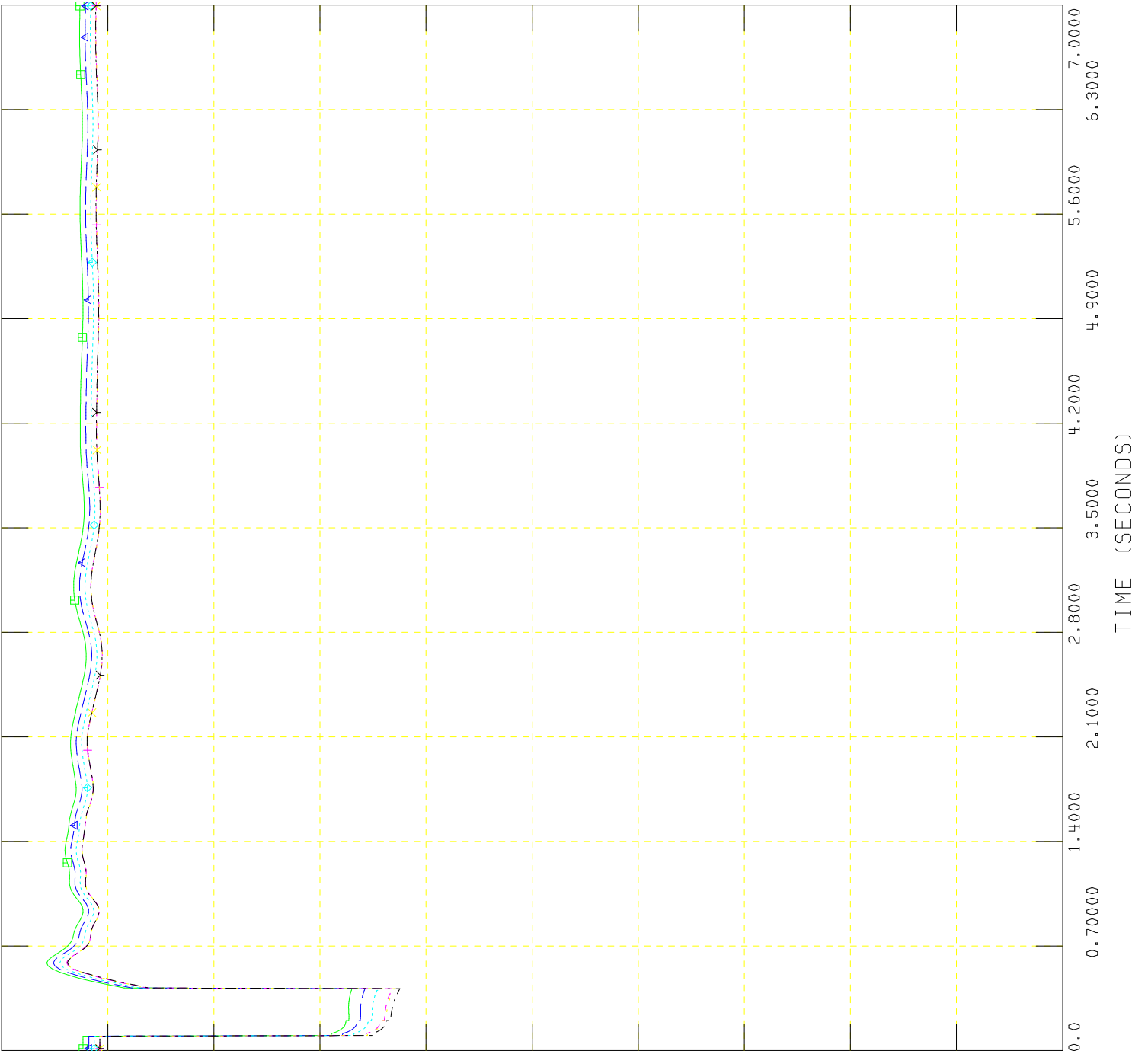




LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



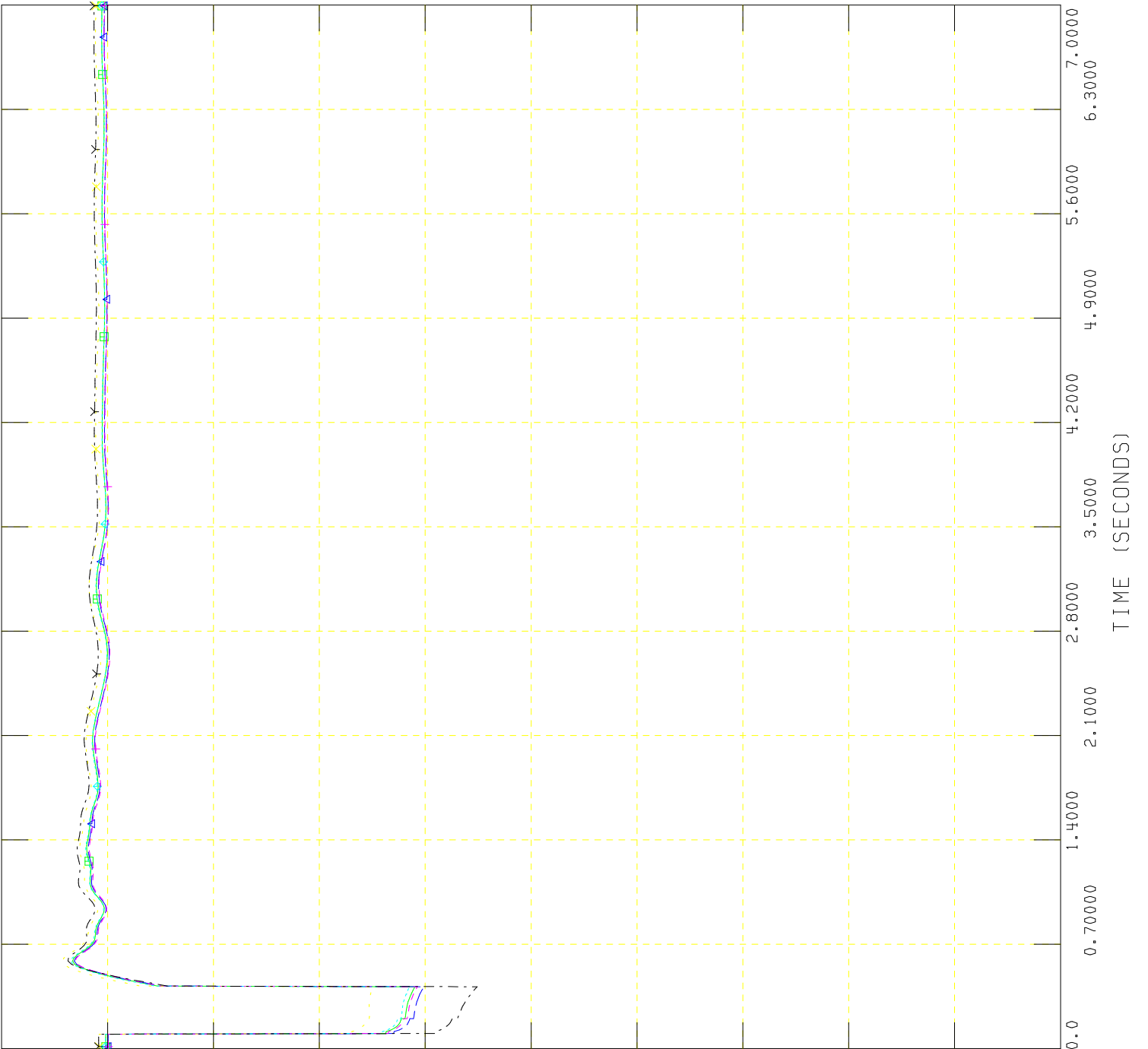
FRI, JUN 13 2008 10:22  
BUS VOLTAGES - 01



LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



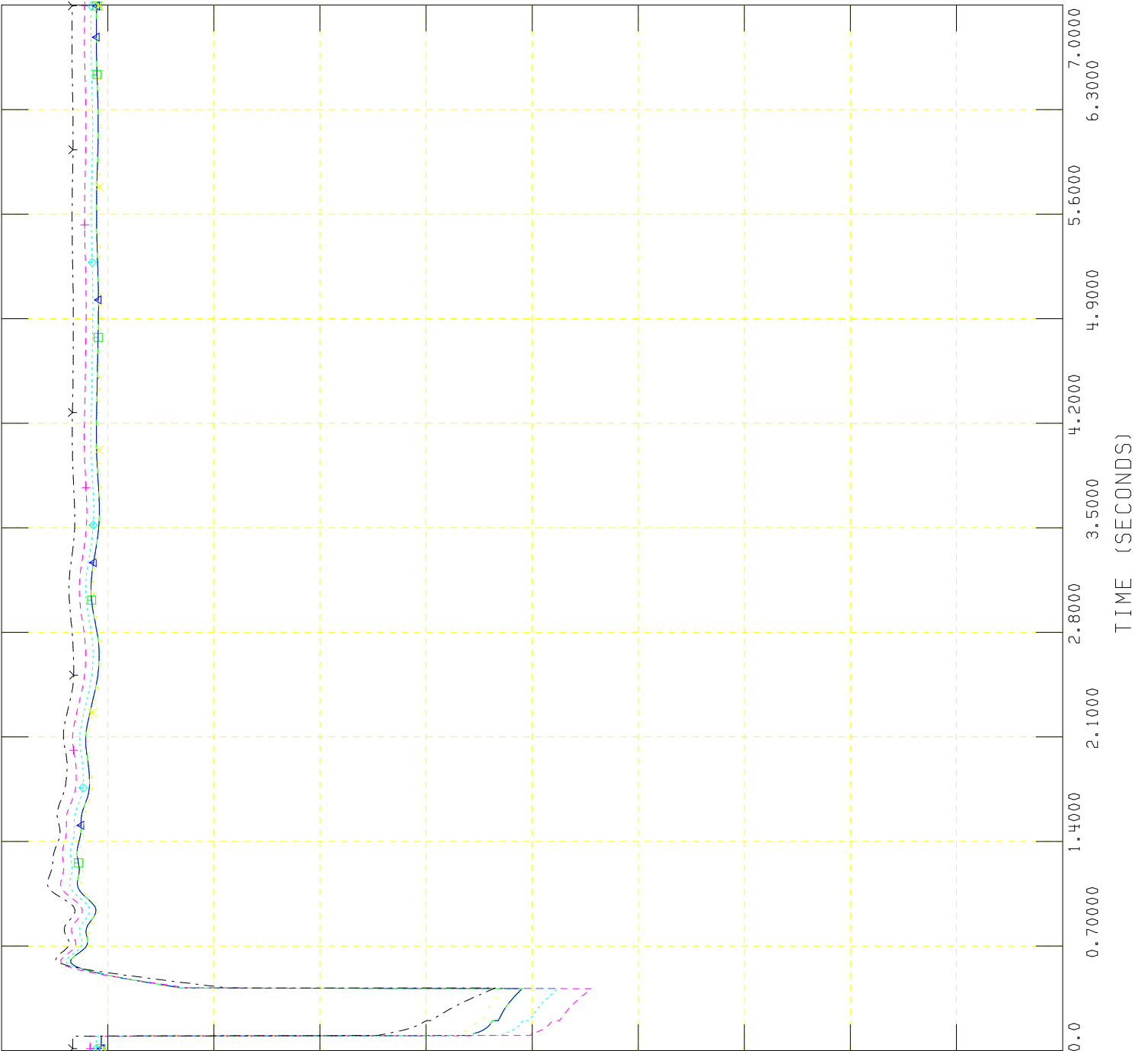
FRI, JUN 13 2008 10:22  
BUS VOLTAGES - 02



LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



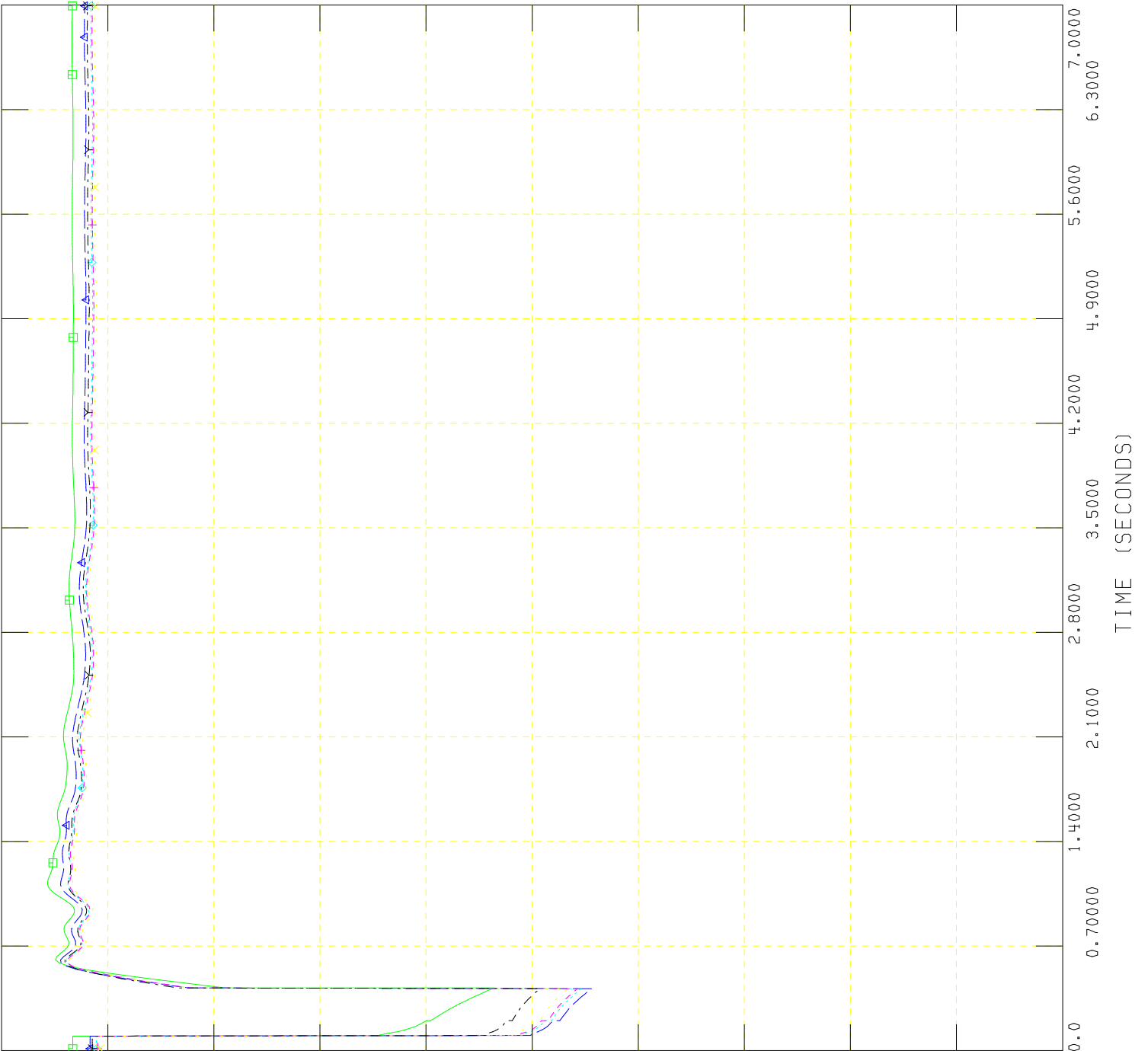
FRI, JUN 13 2008 10:22  
BUS VOLTAGES - 03



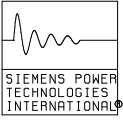
LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



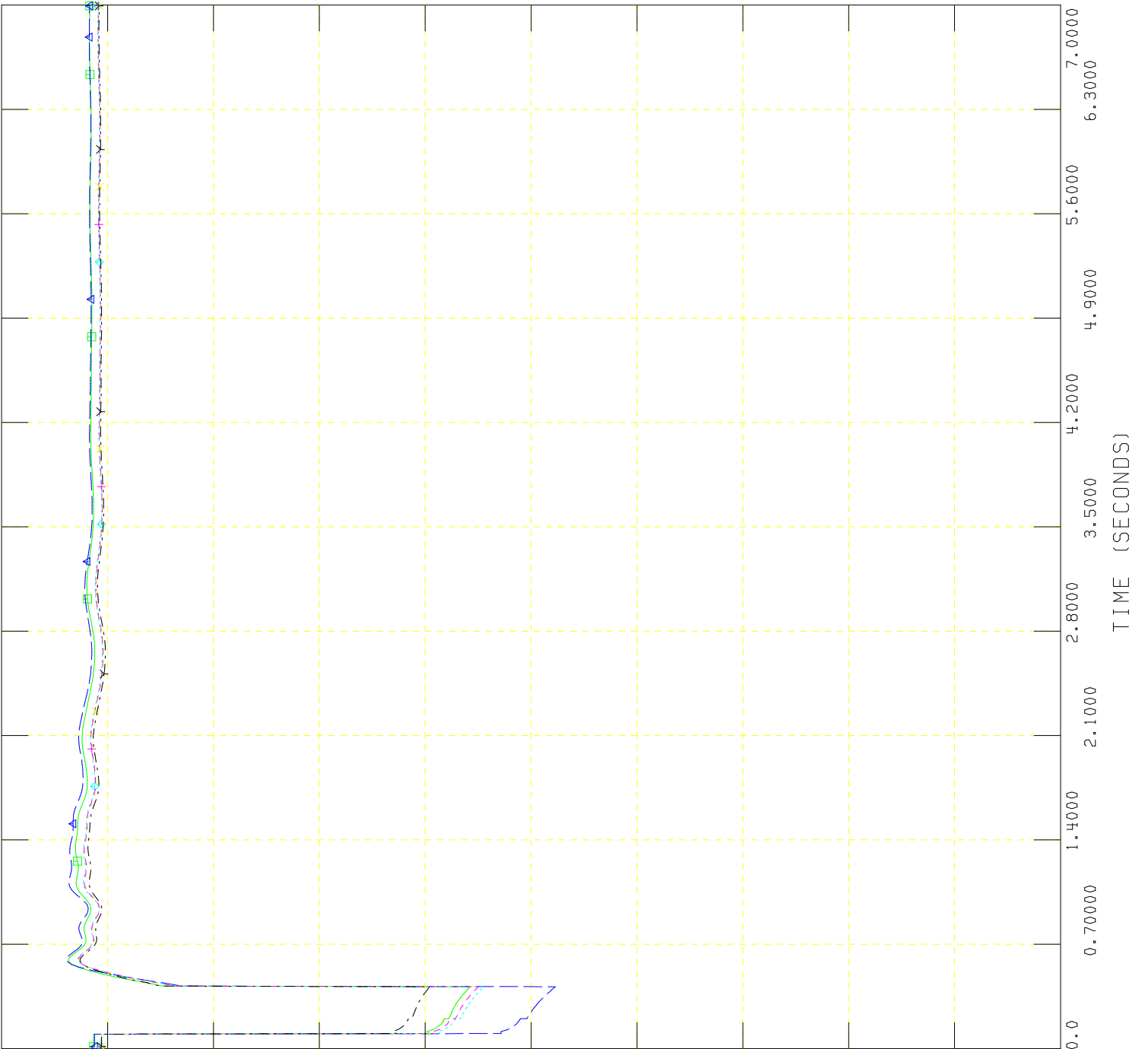
FRI, JUN 13 2008 10:22  
BUS VOLTAGES - 04



LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



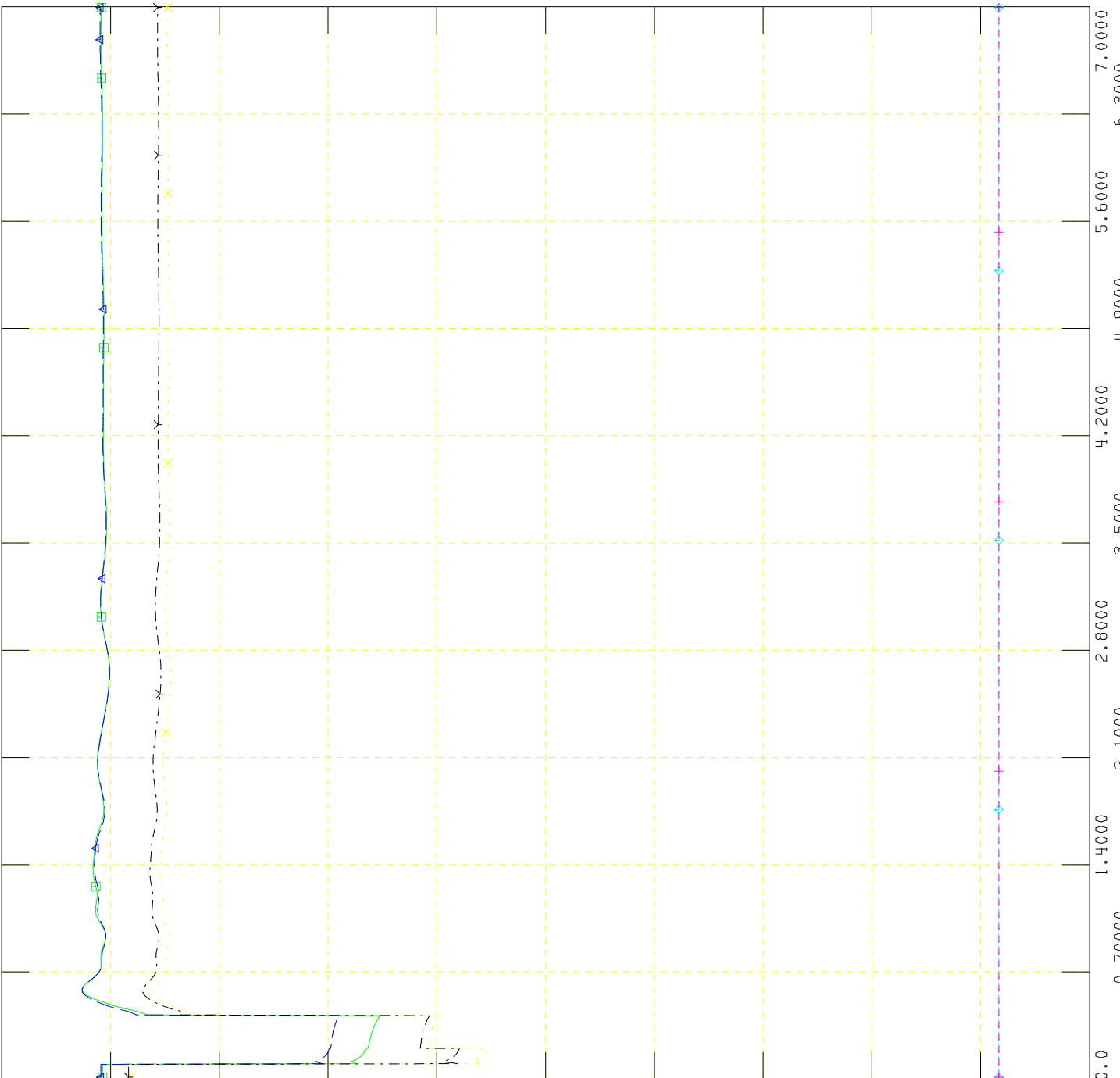
FRI, JUN 13 2008 10:22  
BUS VOLTAGES - 05



LC  
 LC-ALDEN, STUCK BRKR CONDITIONS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



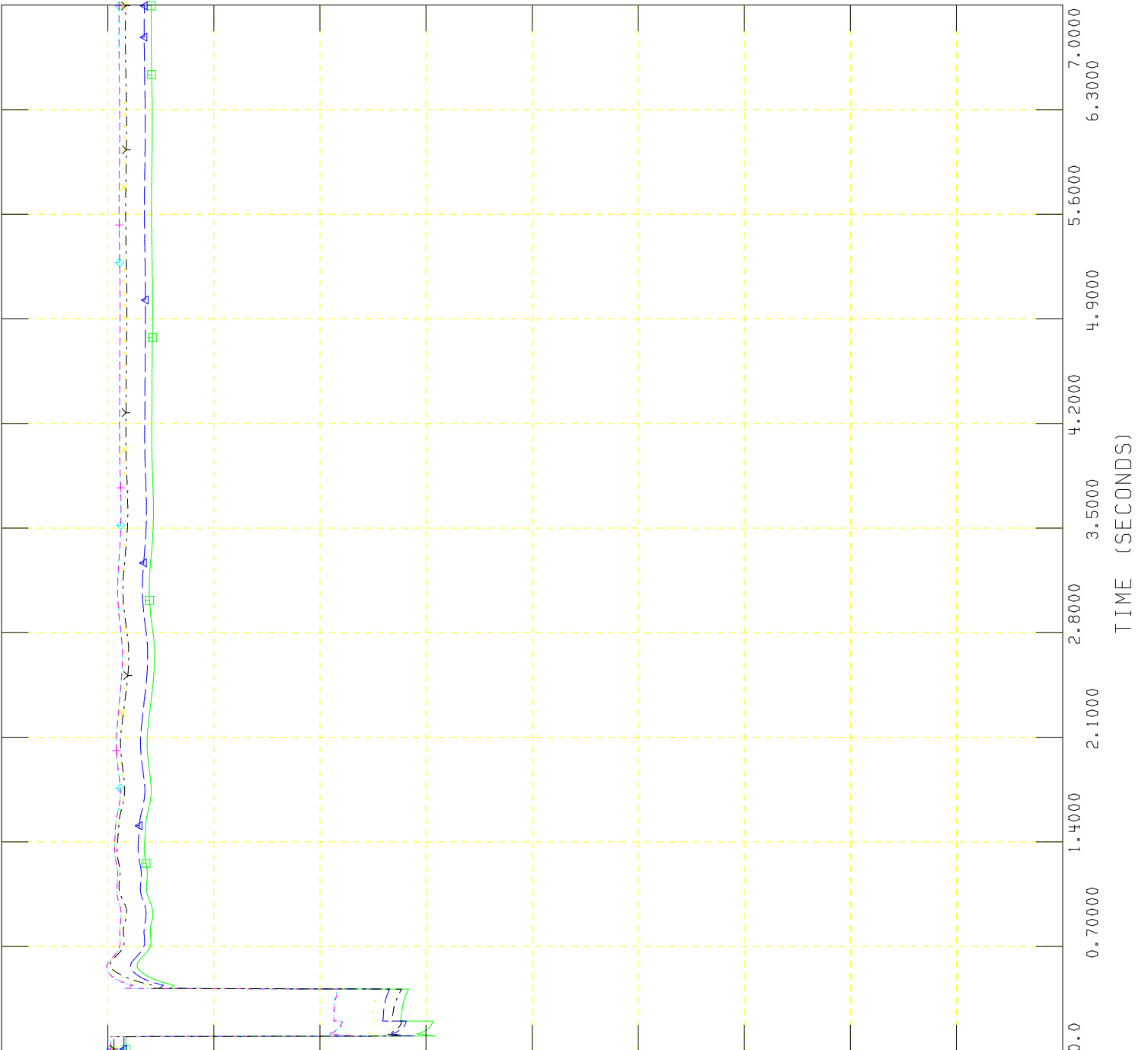
FRI, JUN 13 2008 10:22  
 BUS VOLTAGES - 06



LC  
LC-ALDEN, STUCK BRKR CONDITIONS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



FRI, JUN 13 2008 10:22  
BUS VOLTAGES - 07

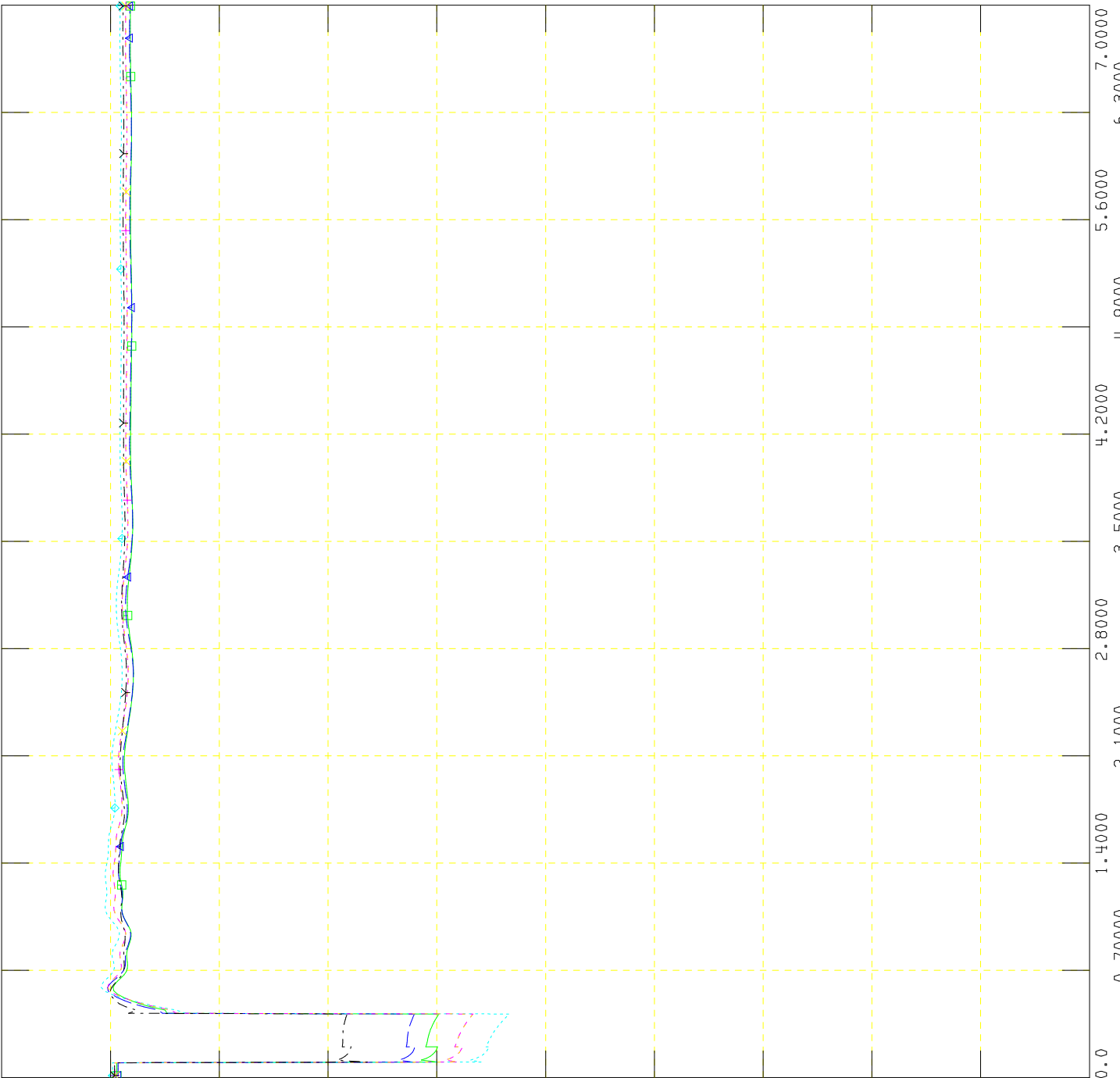




LC  
 LC-ALDEN, STUCK BRKR CONDITIONS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Alden-2a.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



FRI, JUN 13 2008 10:22  
 BUS VOLTAGES - 08



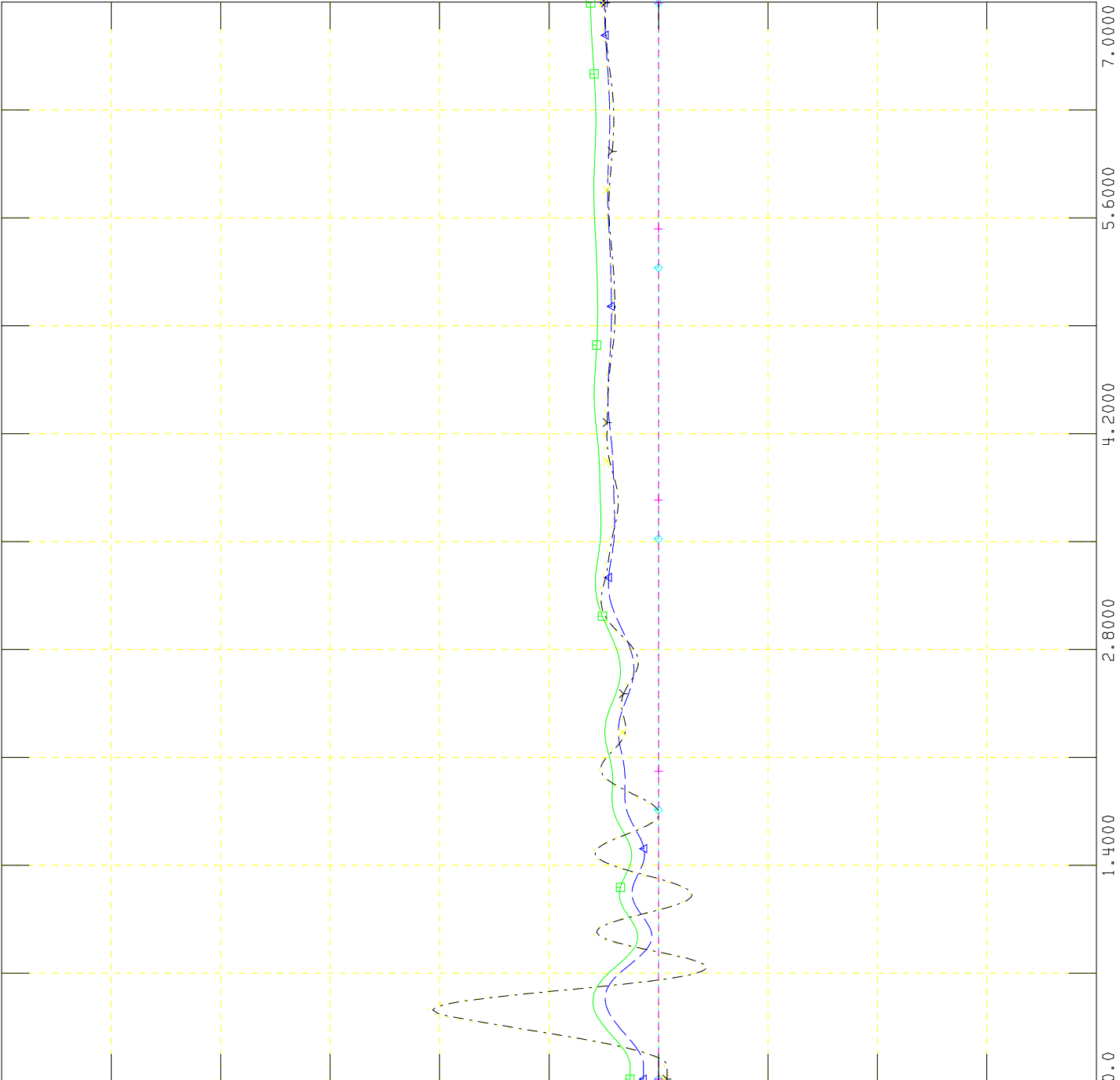
**FAULT 3a**  
**Lewis Creek – Conroe Bulk 138 kV**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**



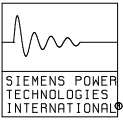
LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

Channel	Bus	Mach	Value
CHNL# 6	[ANGL BUS 334071	MACH '1 ']	-100.0
CHNL# 5	[ANGL BUS 334070	MACH '1 ']	-100.0
CHNL# 4	[ANGL BUS 334033	MACH '1 ']	-100.0
CHNL# 3	[ANGL BUS 334032	MACH '1 ']	-100.0
CHNL# 2	[ANGL BUS 334031	MACH '1 ']	-100.0
CHNL# 1	[ANGL BUS 334030	MACH '1 ']	-100.0

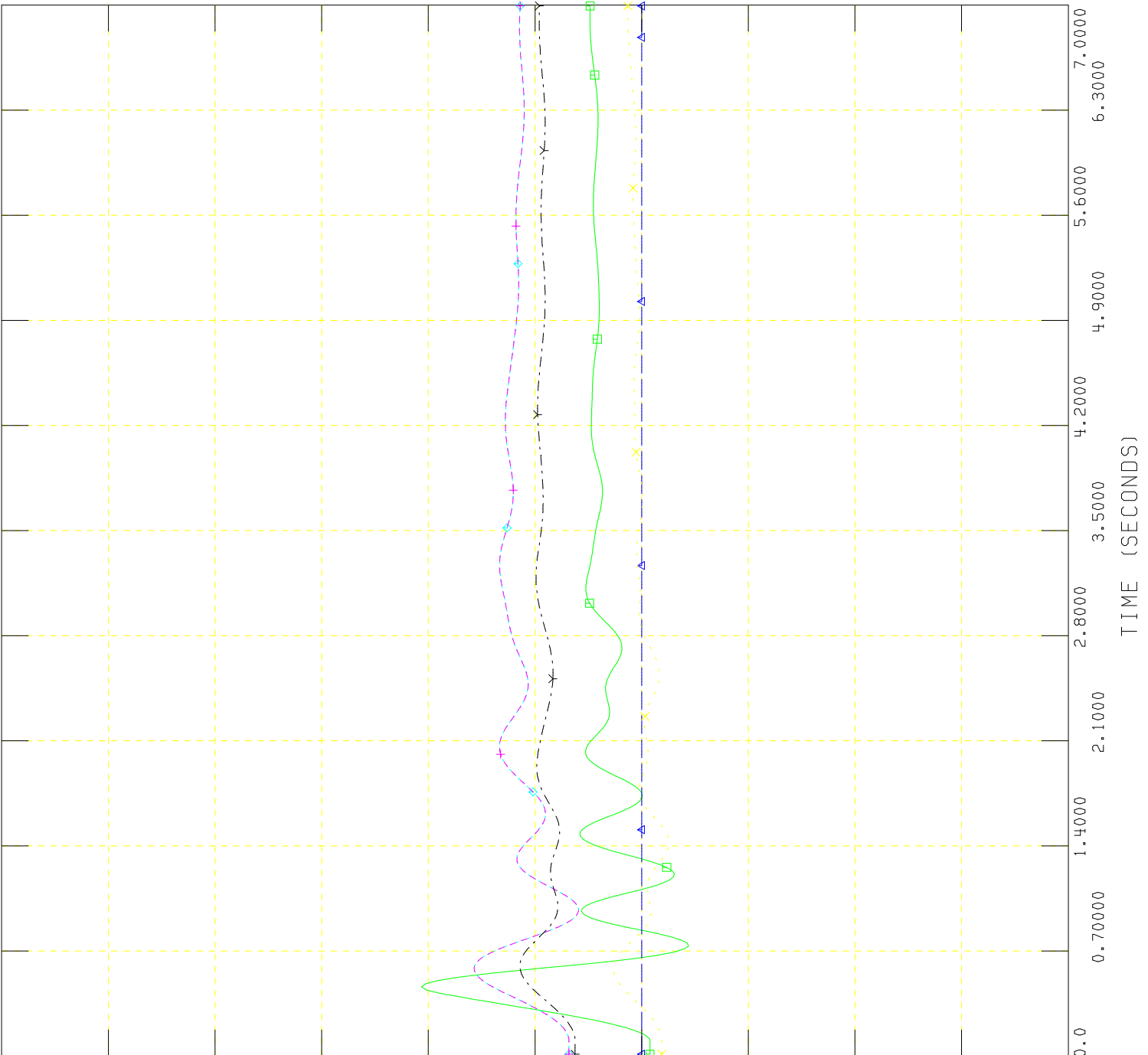
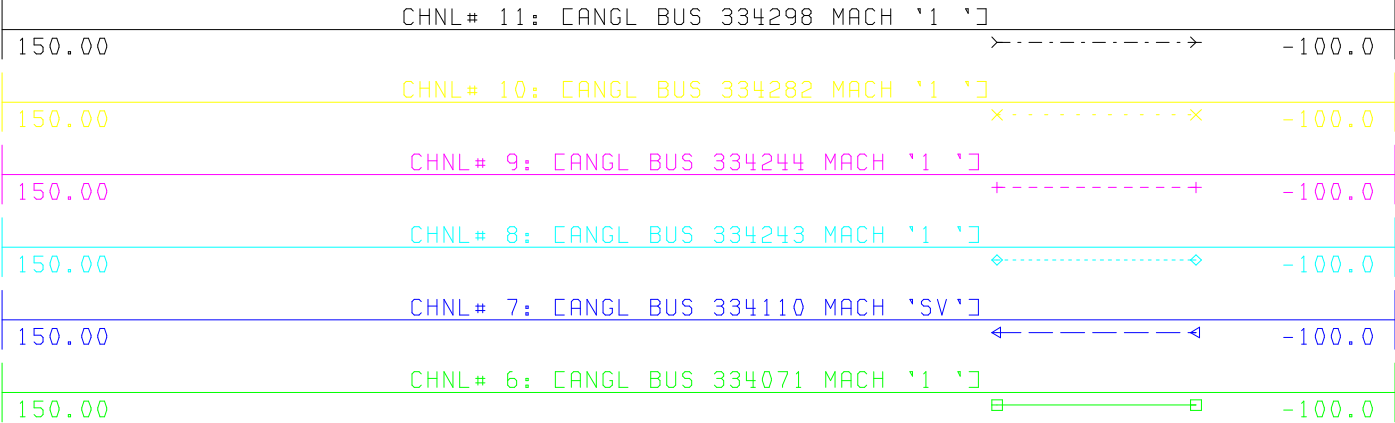


FRI, JUN 13 2008 11:58  
MACHINE ANGLES - 01

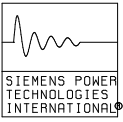


LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out



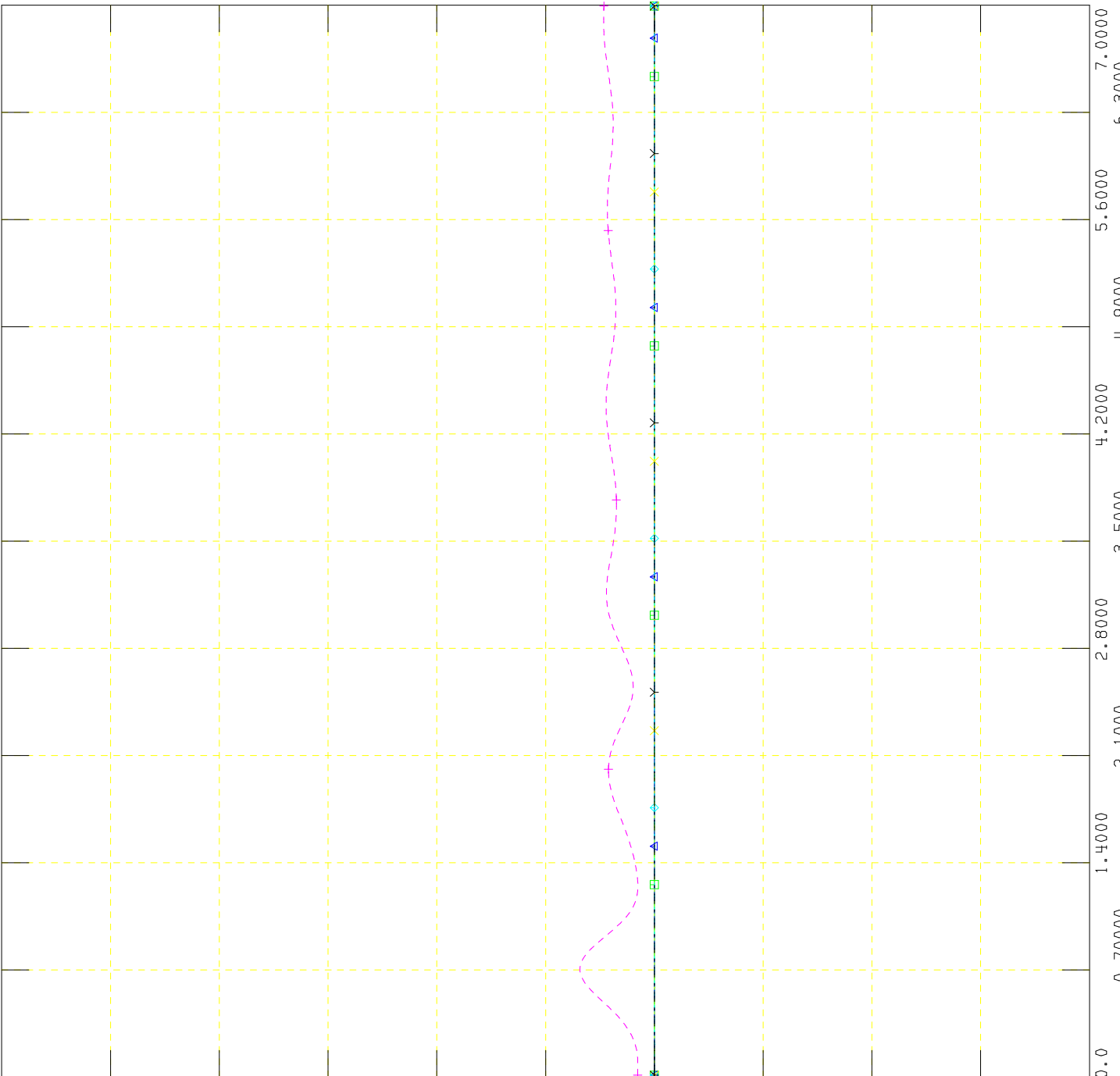
FRI, JUN 13 2008 11:58  
MACHINE ANGLES - 02



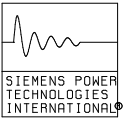
LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0

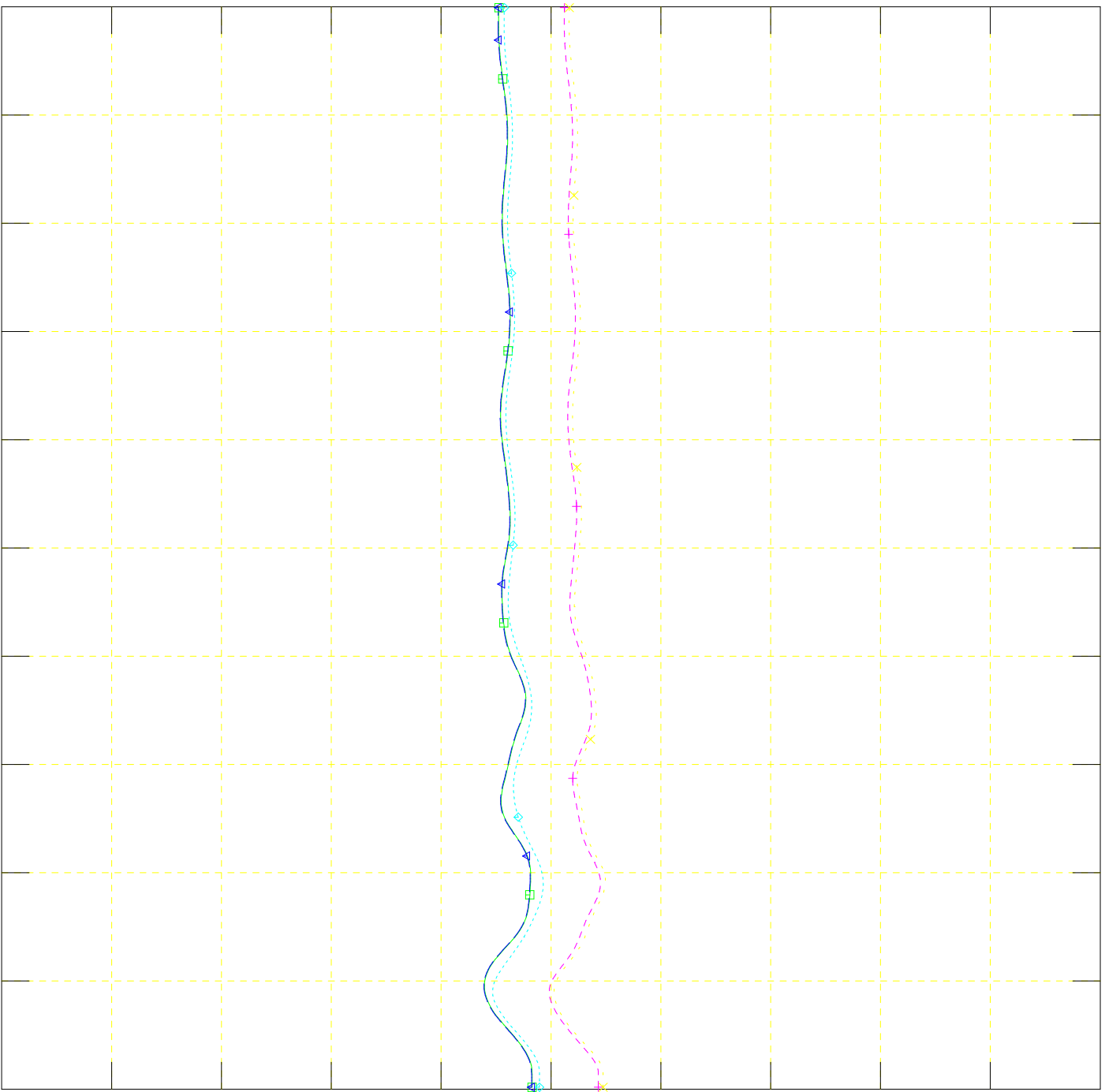
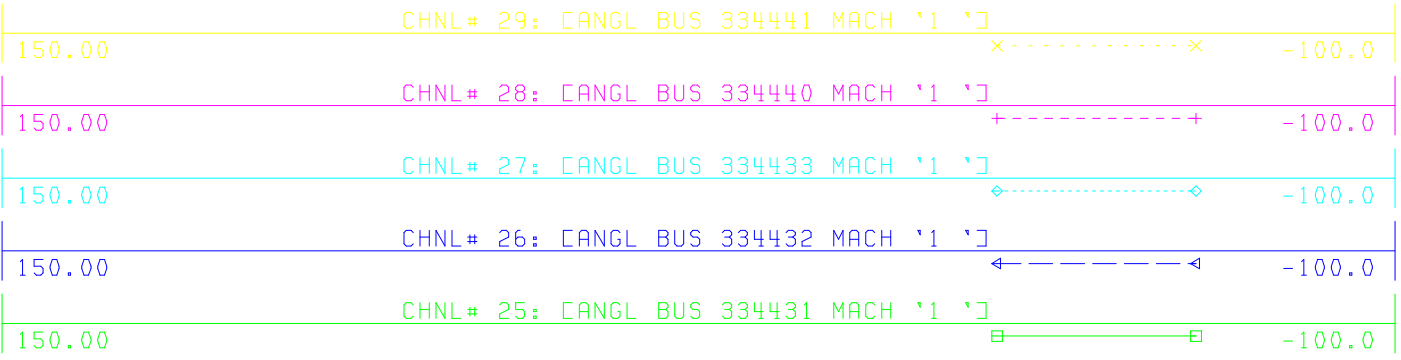


FRI, JUN 13 2008 11:58  
MACHINE ANGLES - 04

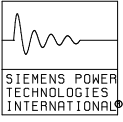


LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out



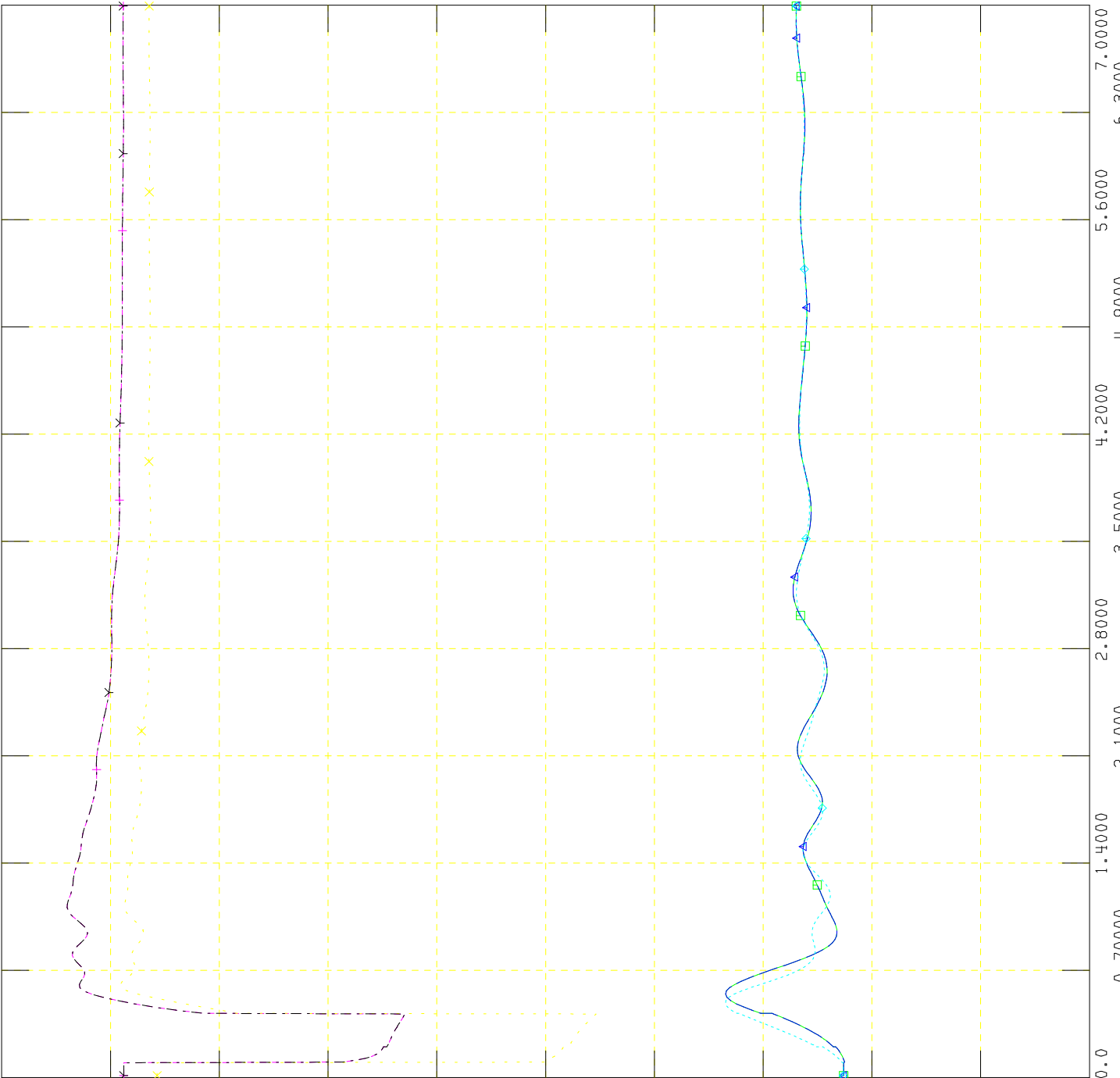
FRI, JUN 13 2008 11:58  
MACHINE ANGLES - 05



LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

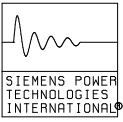
FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



FRI, JUN 13 2008 11:58  
ANG & VOLT - PID-211 GENS

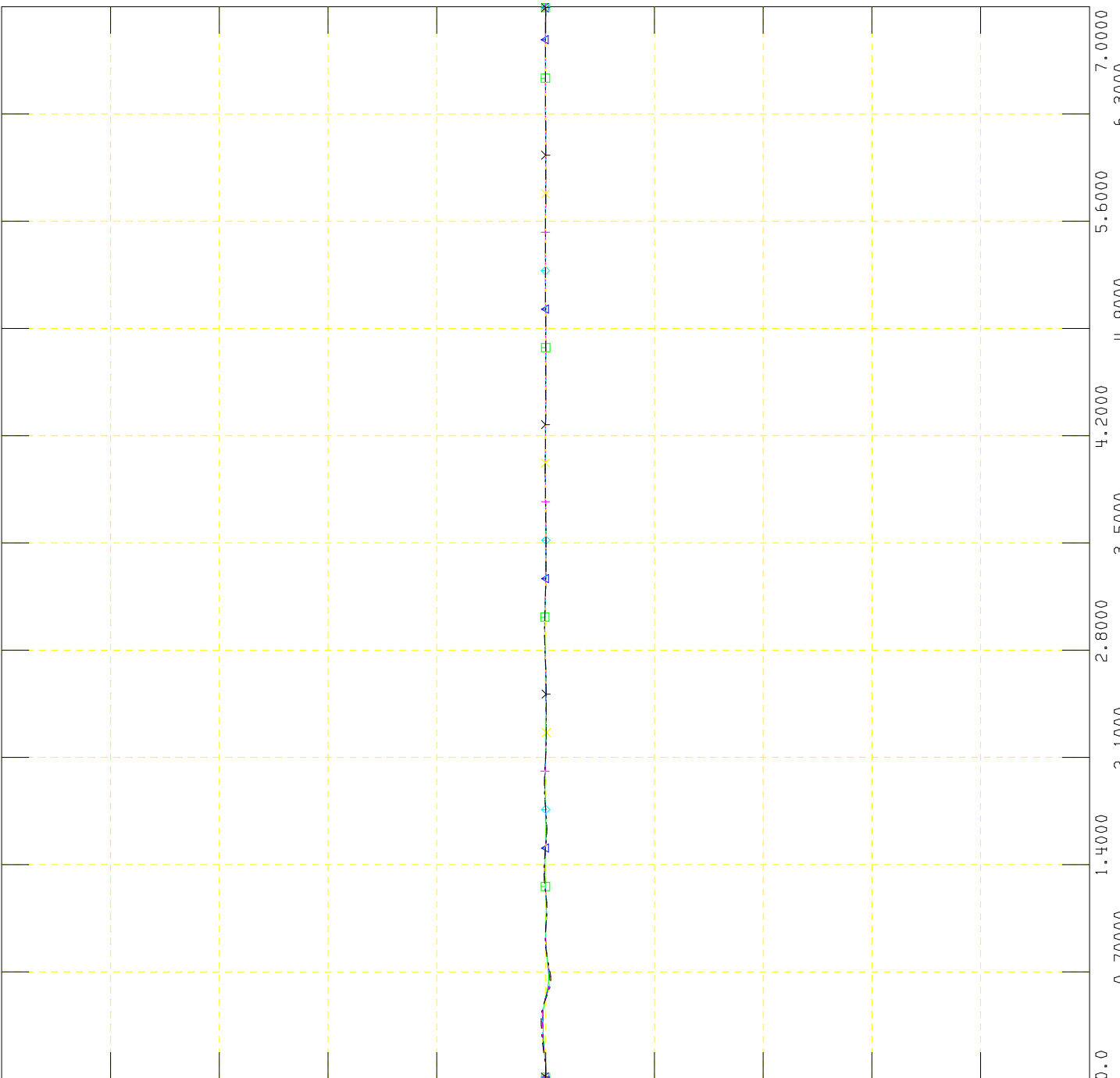




LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

Channel	CFREQ	Channel Name	Value
CHNL# 41	334065	C4LACON	138.00
CHNL# 40	334064	C8LNG 413	138.00
CHNL# 39	334063	C4EVGRN*	138.00
CHNL# 38	334062	C4TEMCO	138.00
CHNL# 37	334061	C4GOREE	138.00
CHNL# 36	334060	C4MT.ZION	138.00



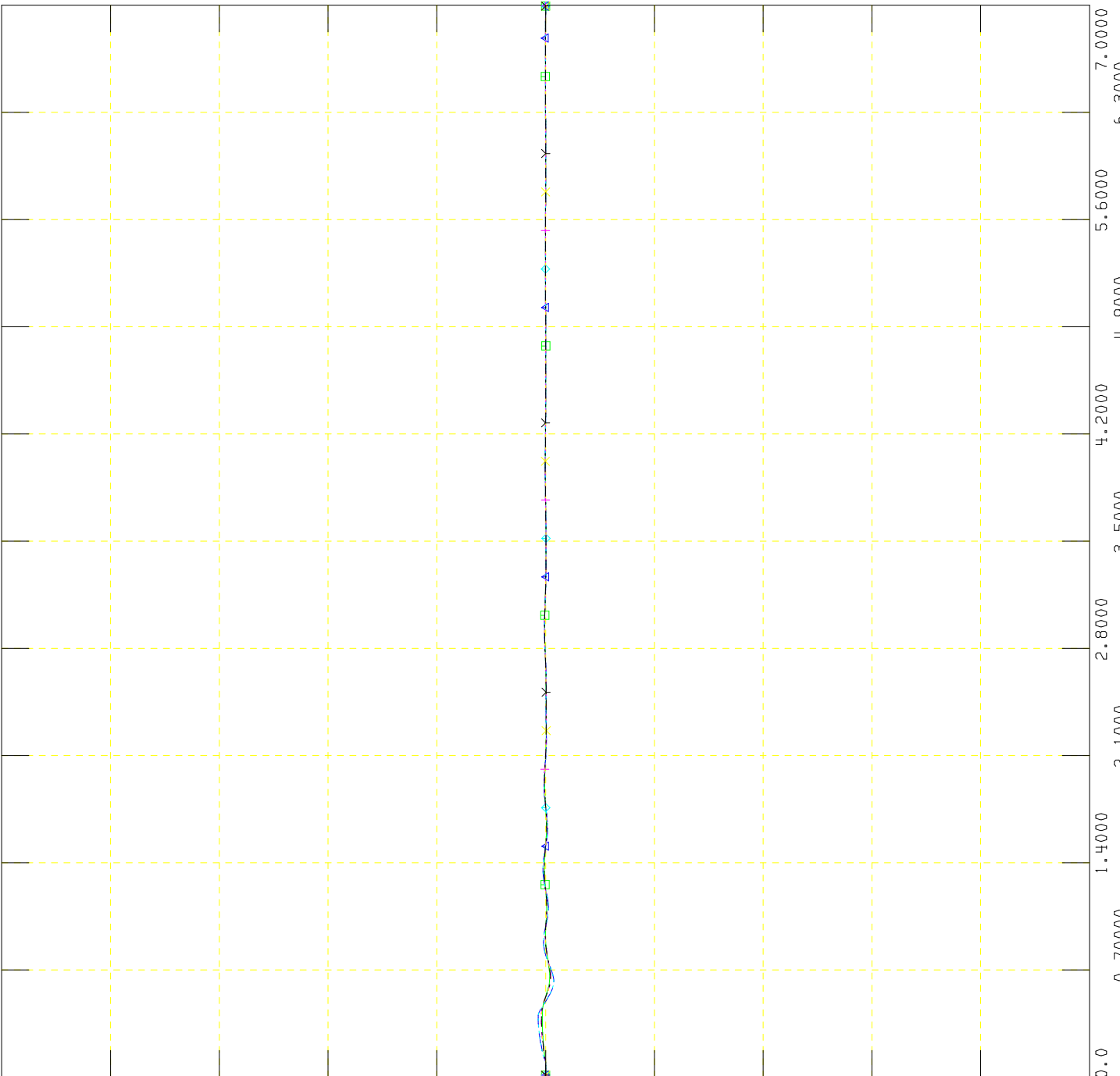
FRI, JUN 13 2008 11:58  
MACHINE FREQUENCIES - 01



LC  
 LC-CONROEB, STUCK BRKR CONDS.  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



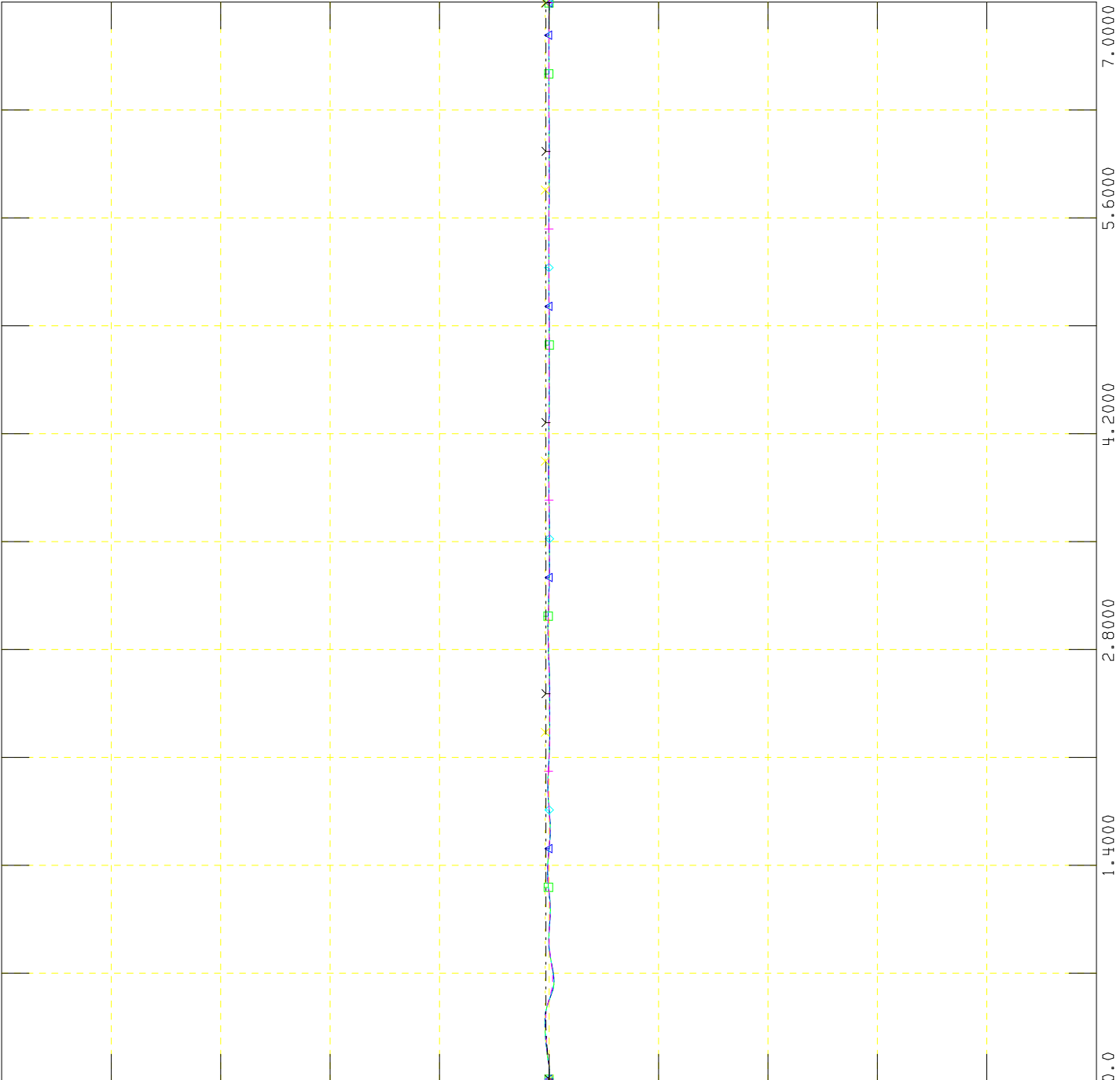
FRI, JUN 13 2008 11:58  
 MACHINE FREQUENCIES - 02



LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



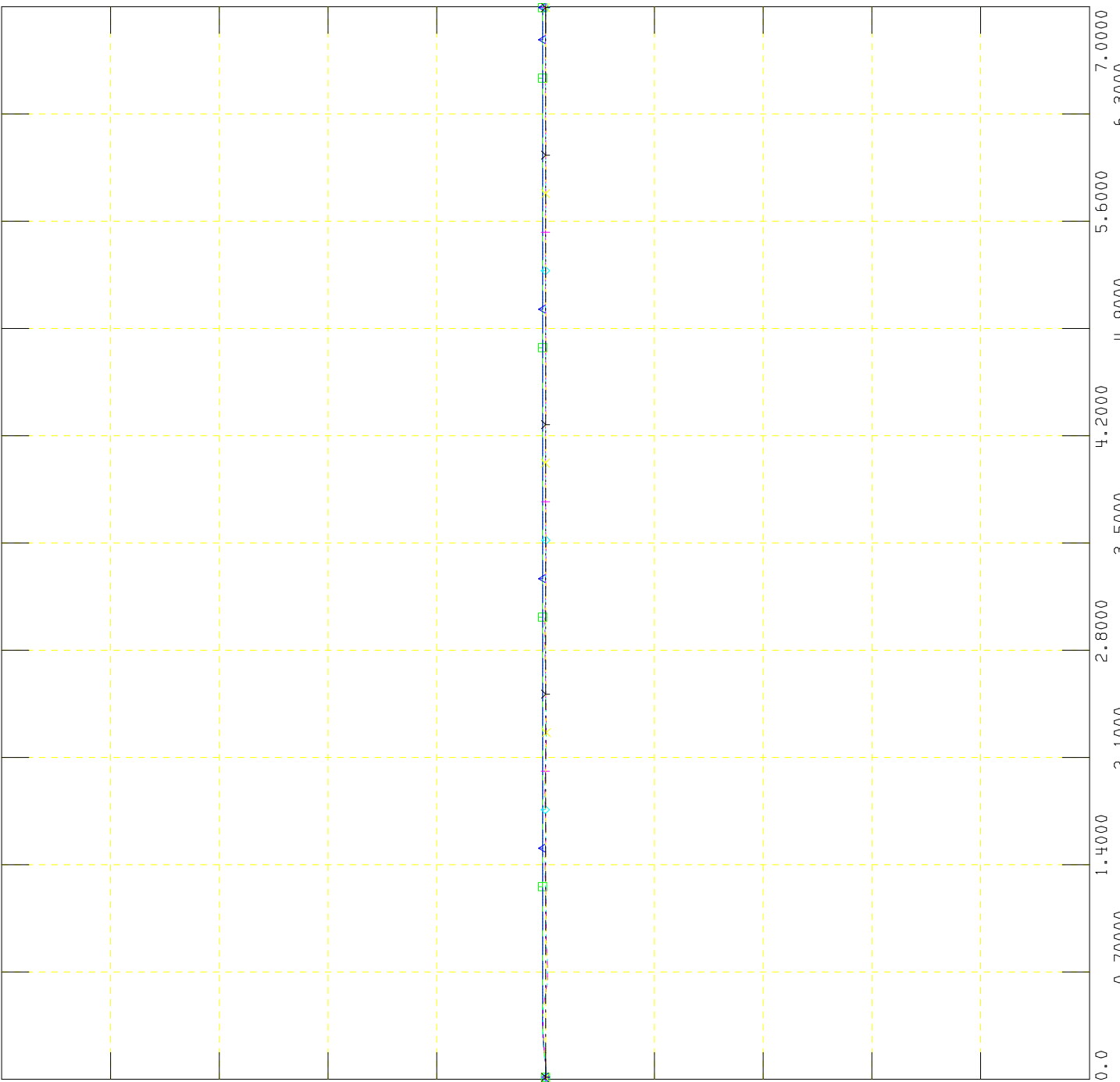
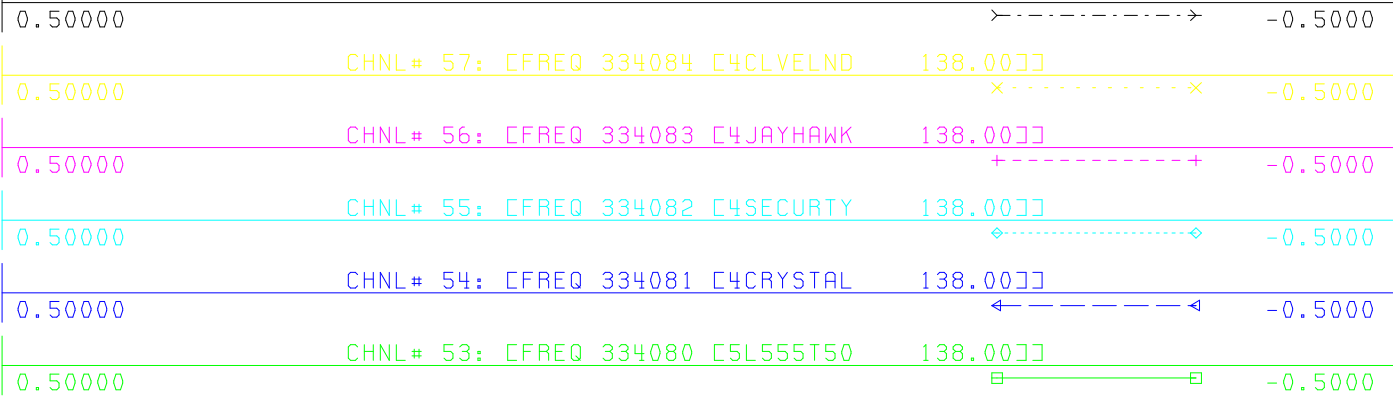
FRI, JUN 13 2008 11:58  
MACHINE FREQUENCIES - 03



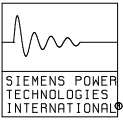
LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 11:59  
MACHINE FREQUENCIES - 04

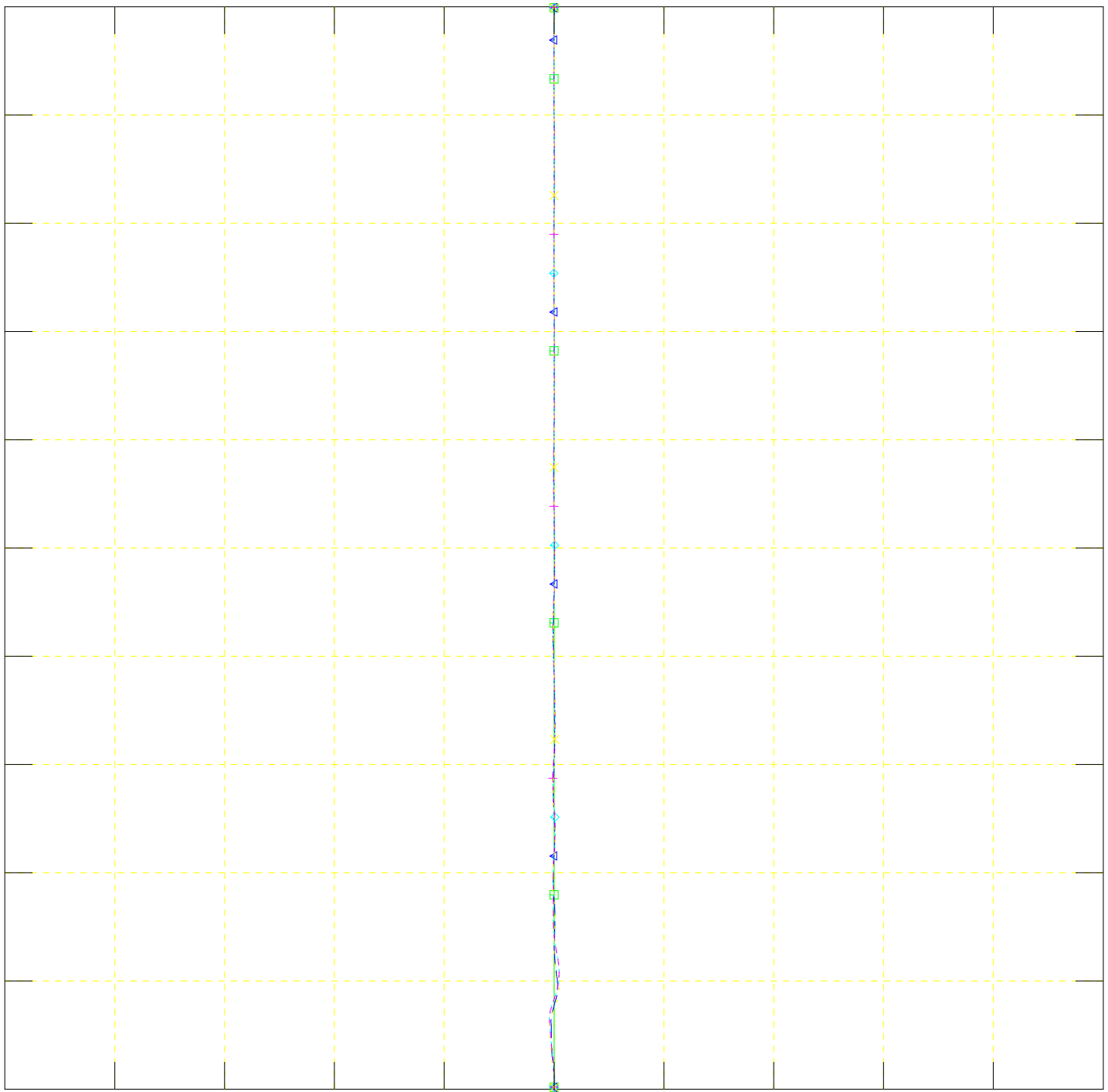


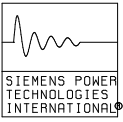
LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

FRI, JUN 13 2008 11:59  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value
CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	99183	18.000
CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	99182	18.000
CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	99181	18.000
CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	334090	138.00
CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	334086	230.00

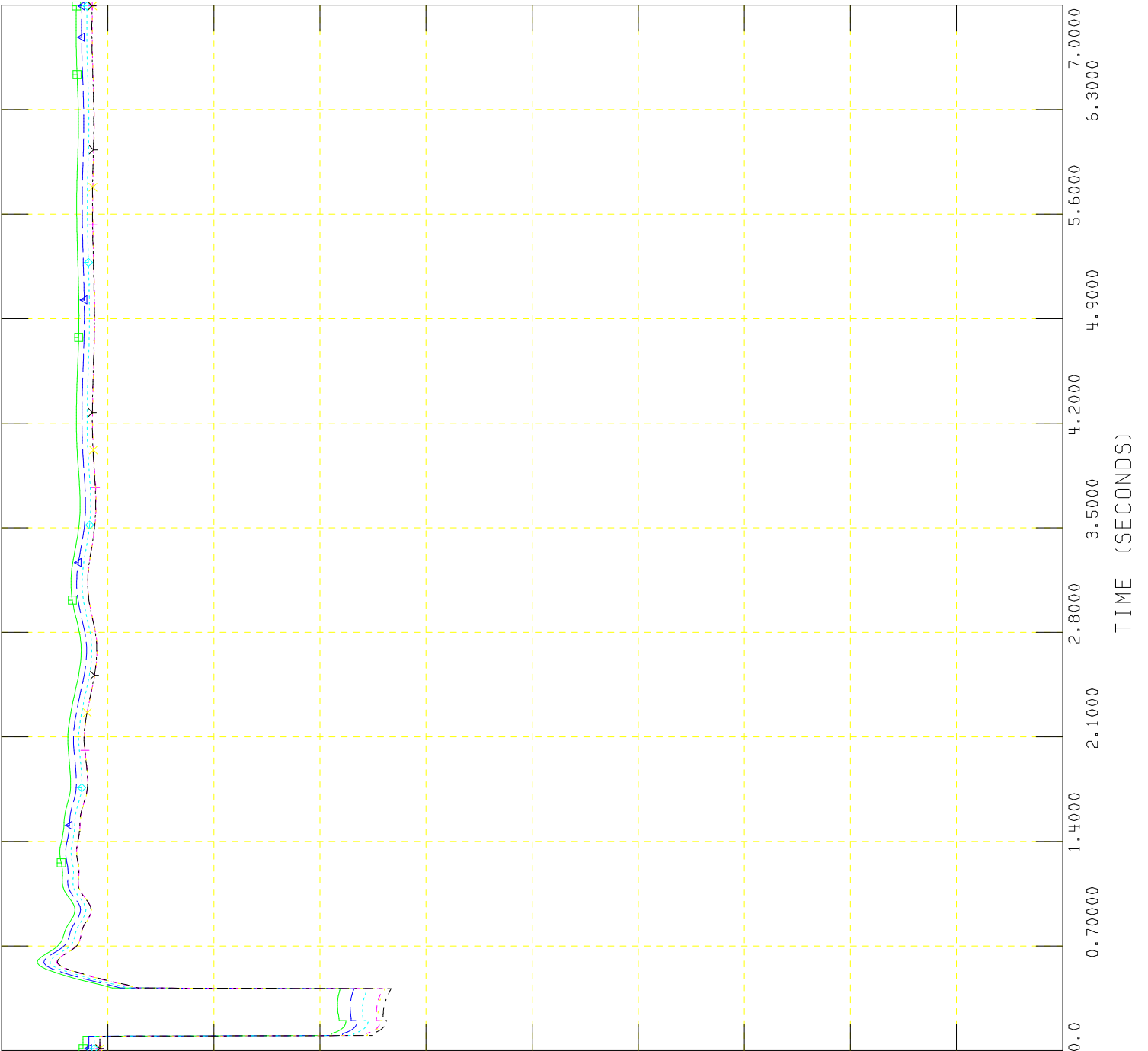




LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



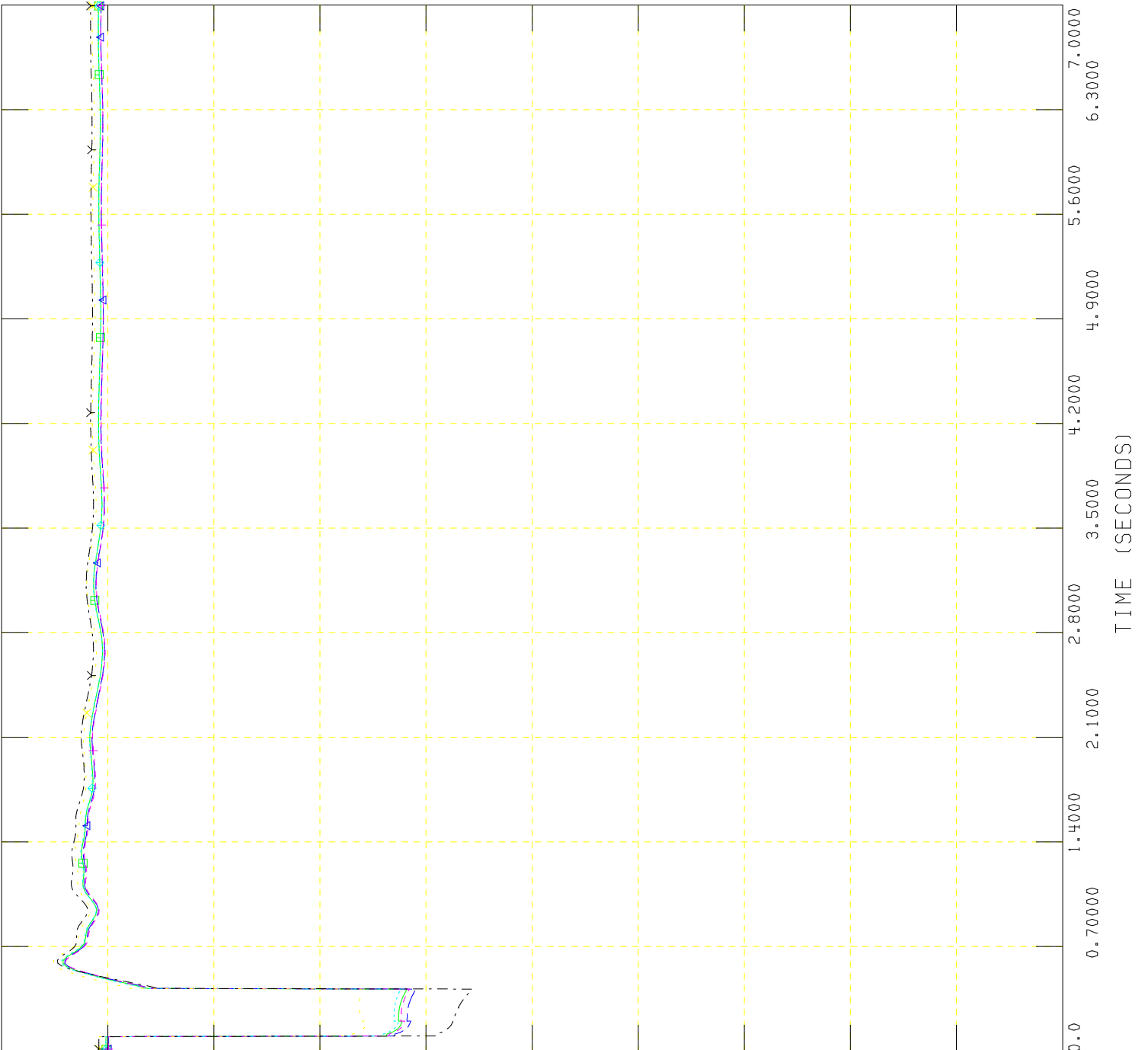
FRI, JUN 13 2008 11:59  
BUS VOLTAGES - 01



LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



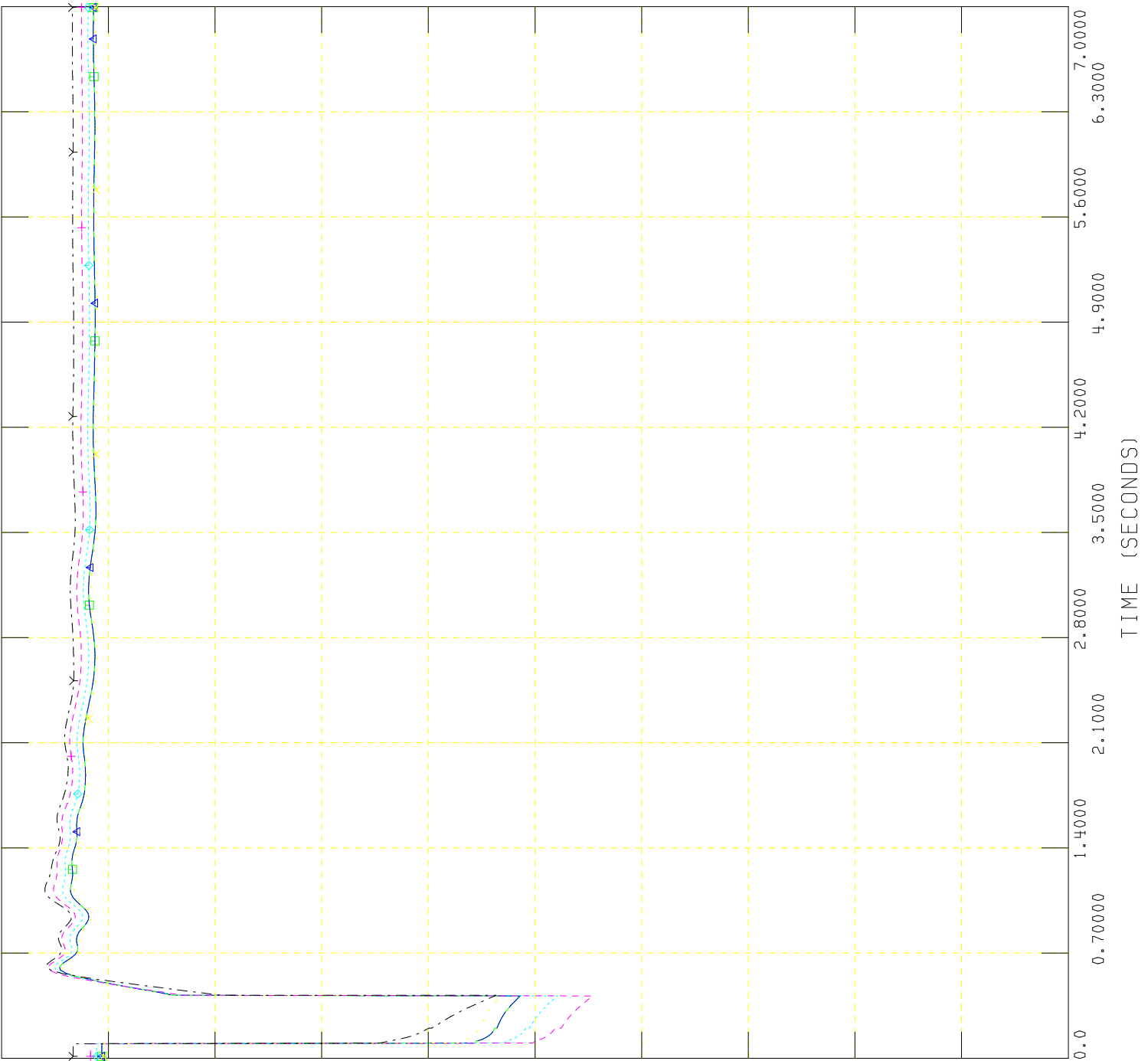
FRI, JUN 13 2008 11:59  
BUS VOLTAGES - 02



LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



FRI, JUN 13 2008 11:59  
BUS VOLTAGES - 03

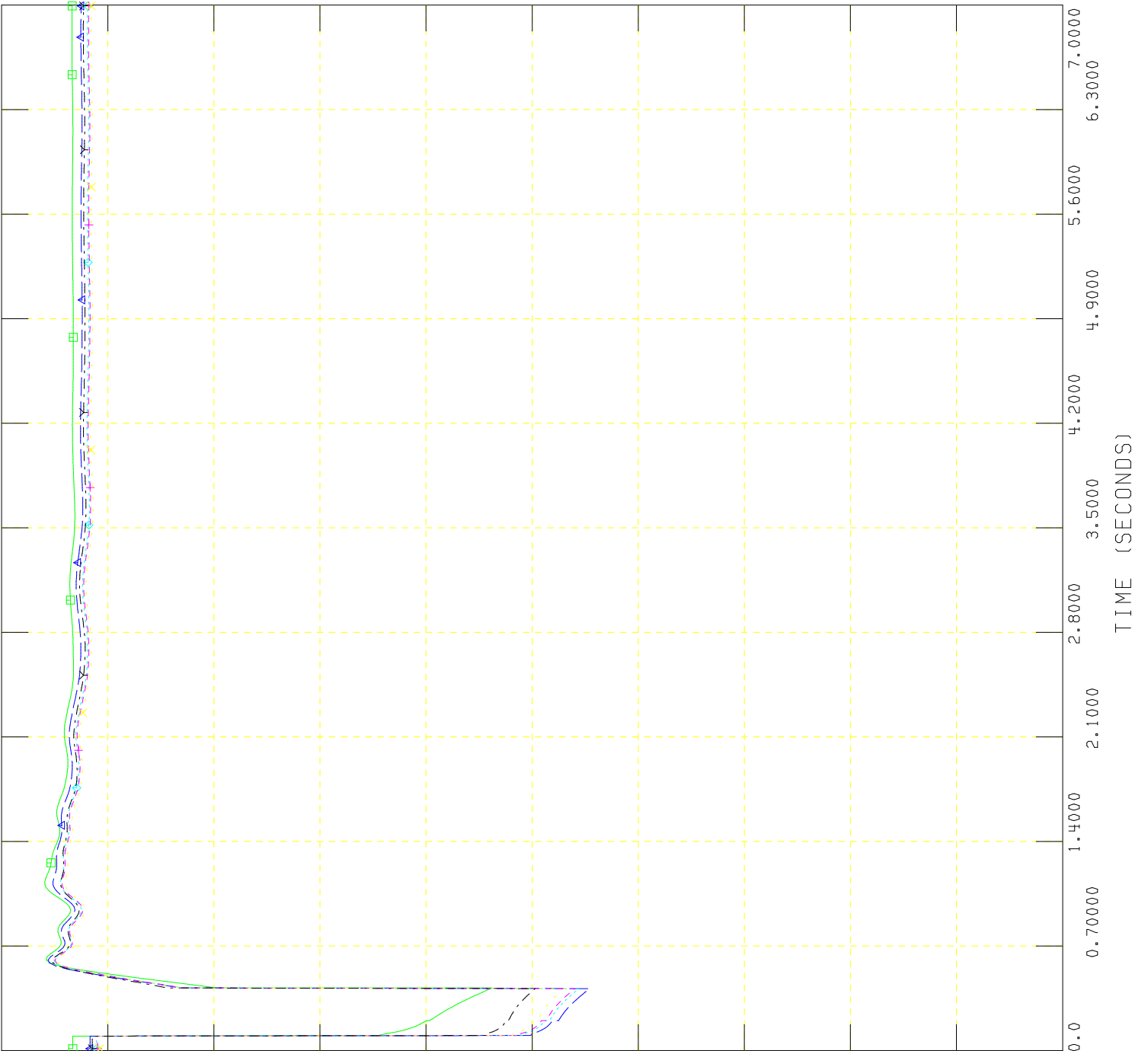




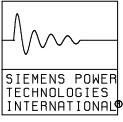
LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

1.1000	CHNL# 87: [VOLT 334076 [C4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [C4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [C4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [C4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [C4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [C62LEWIS 22.00]]	-0.1000



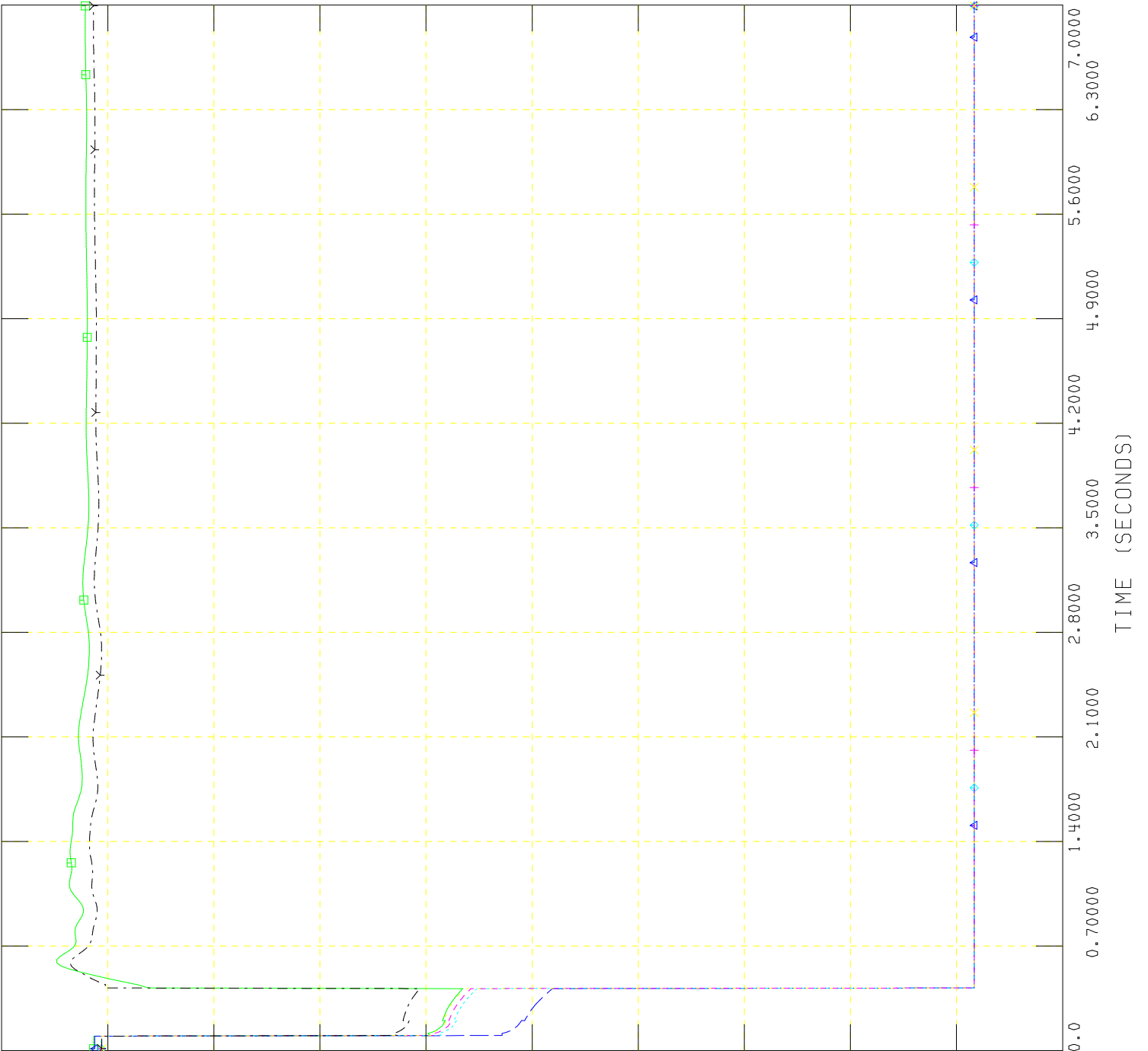
FRI, JUN 13 2008 11:59  
BUS VOLTAGES - 04



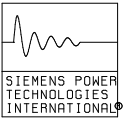
LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



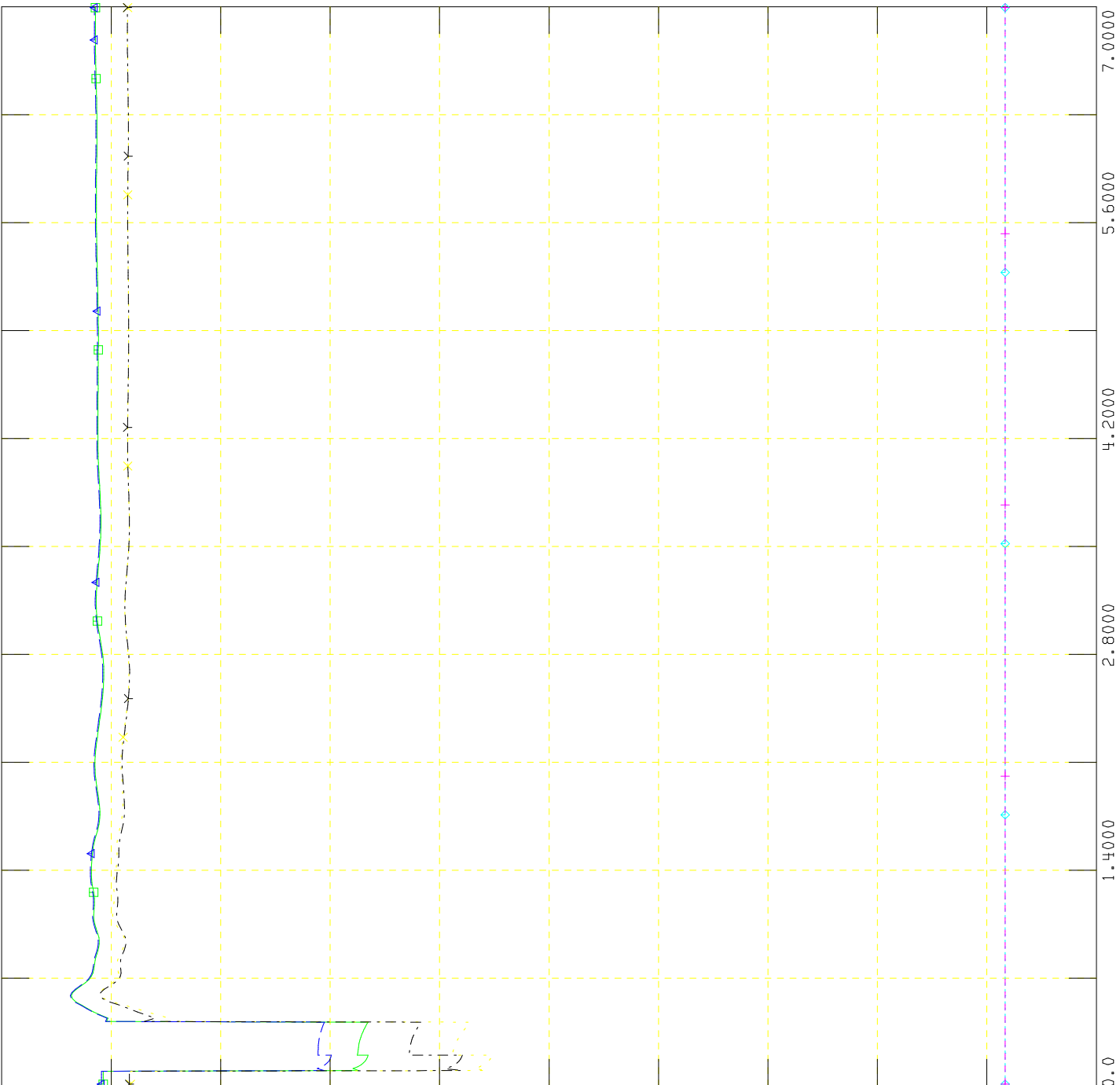
FRI, JUN 13 2008 11:59  
BUS VOLTAGES - 05



LC  
 LC-CONROEB, STUCK BRKR CONDS.  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



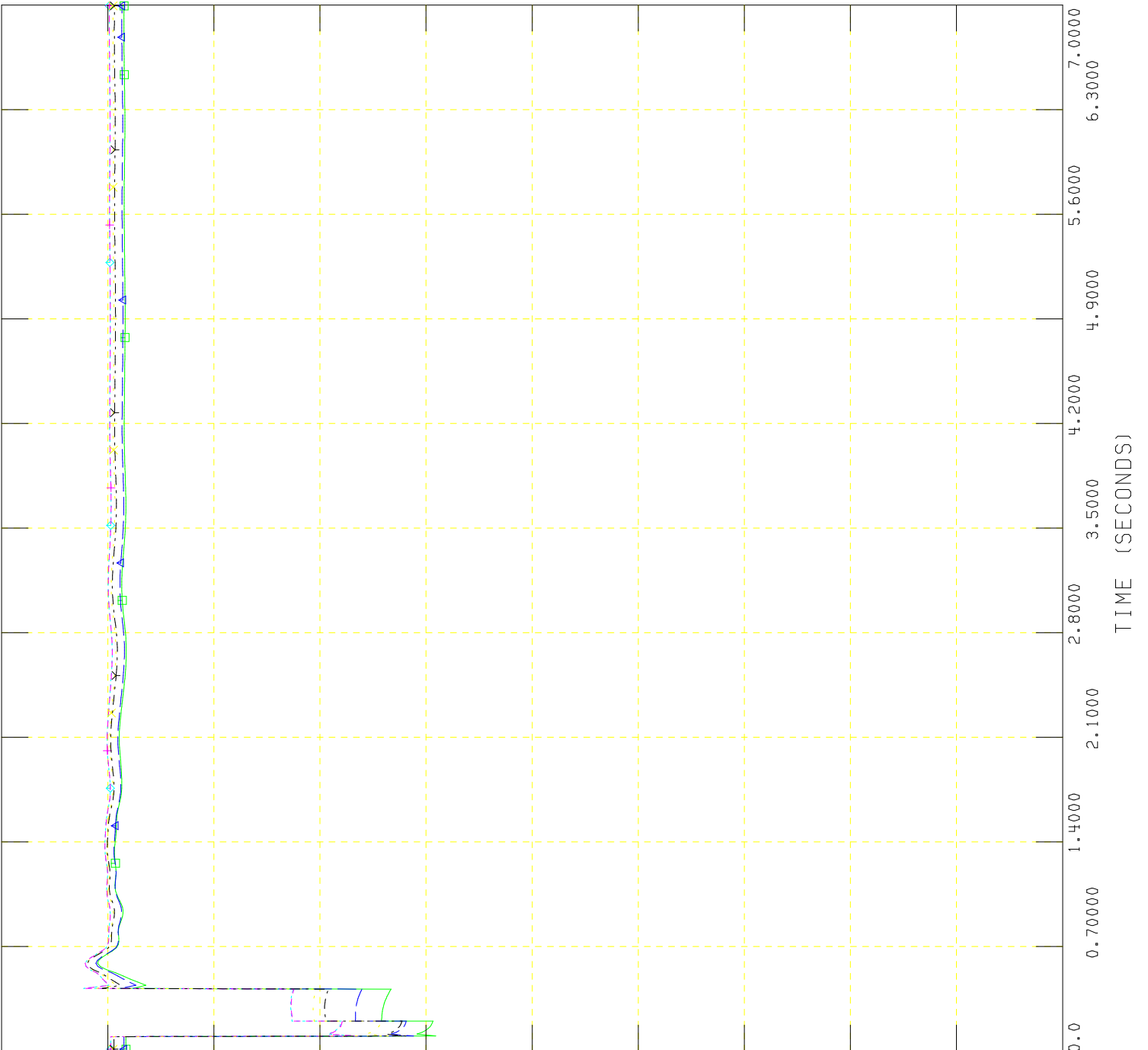
FRI, JUN 13 2008 11:59  
 BUS VOLTAGES - 06



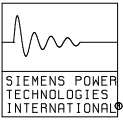
LC  
 LC-CONROEB, STUCK BRKR CONDS.  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



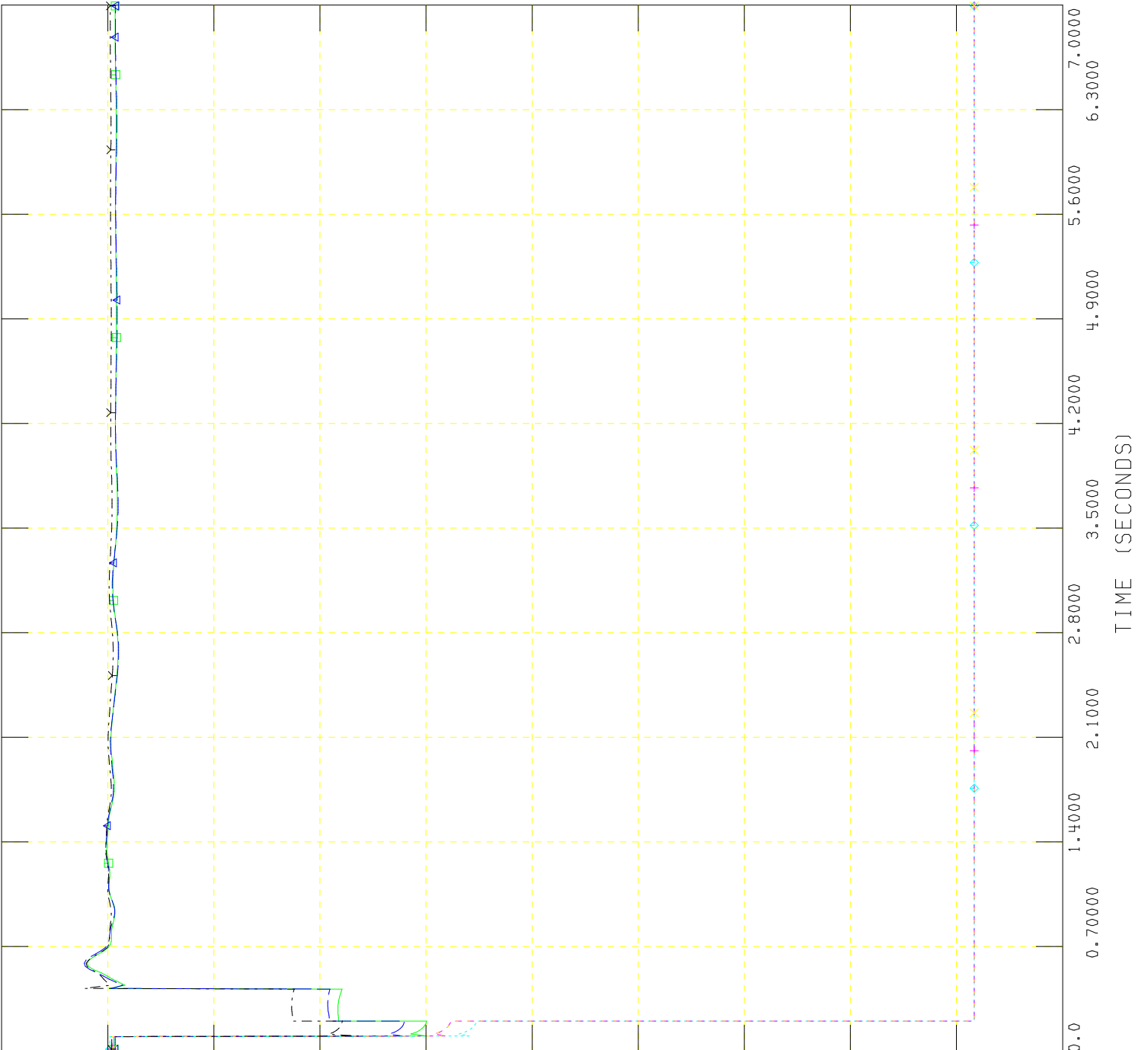
FRI, JUN 13 2008 11:59  
 BUS VOLTAGES - 07



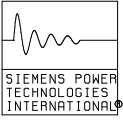
LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



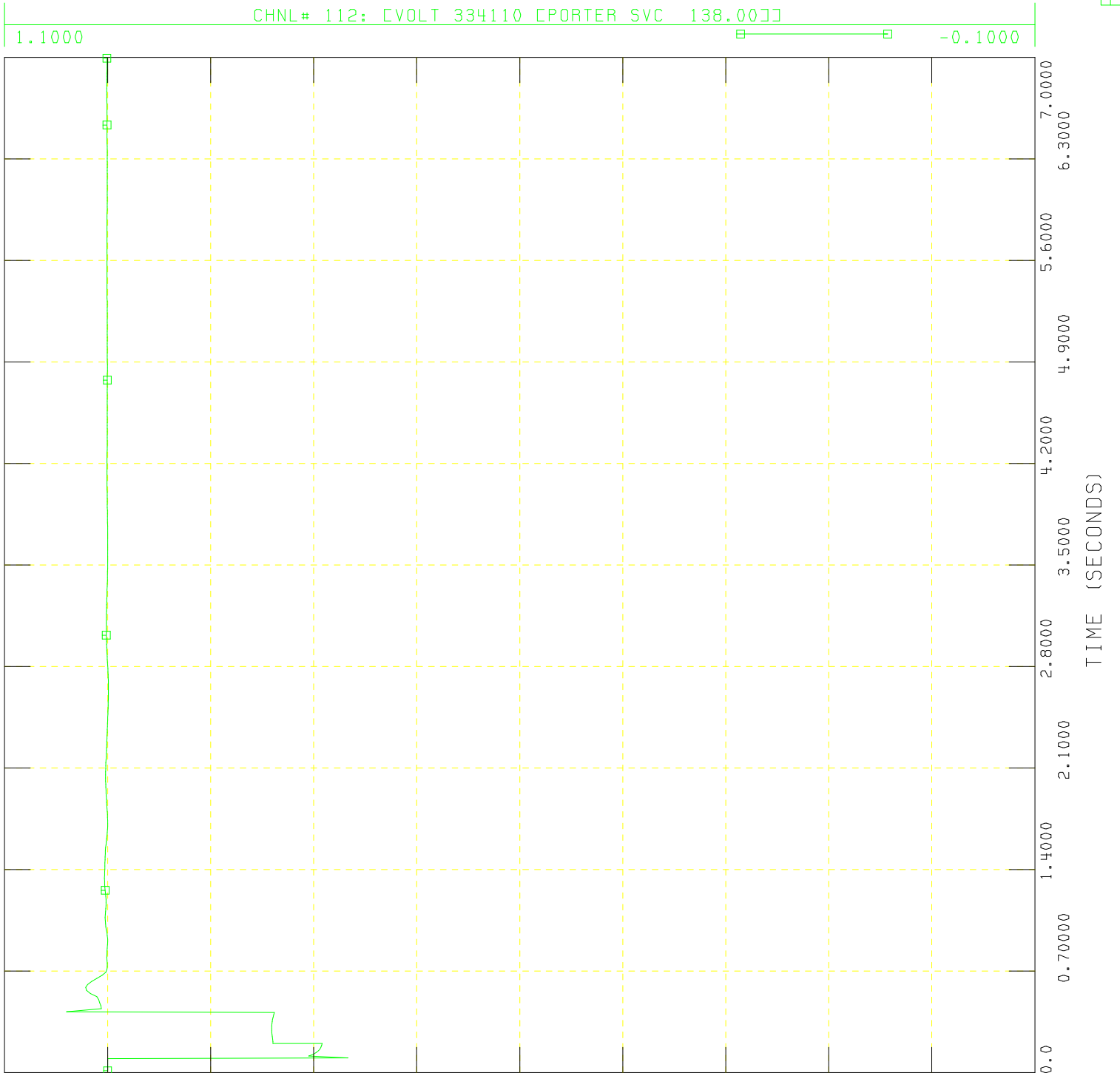
FRI, JUN 13 2008 11:59  
BUS VOLTAGES - 08



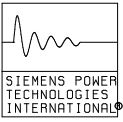
LC  
LC-CONROEB, STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-ConroeB-3a.out

FRI, JUN 13 2008 11:59  
BUS VOLTAGES - 09



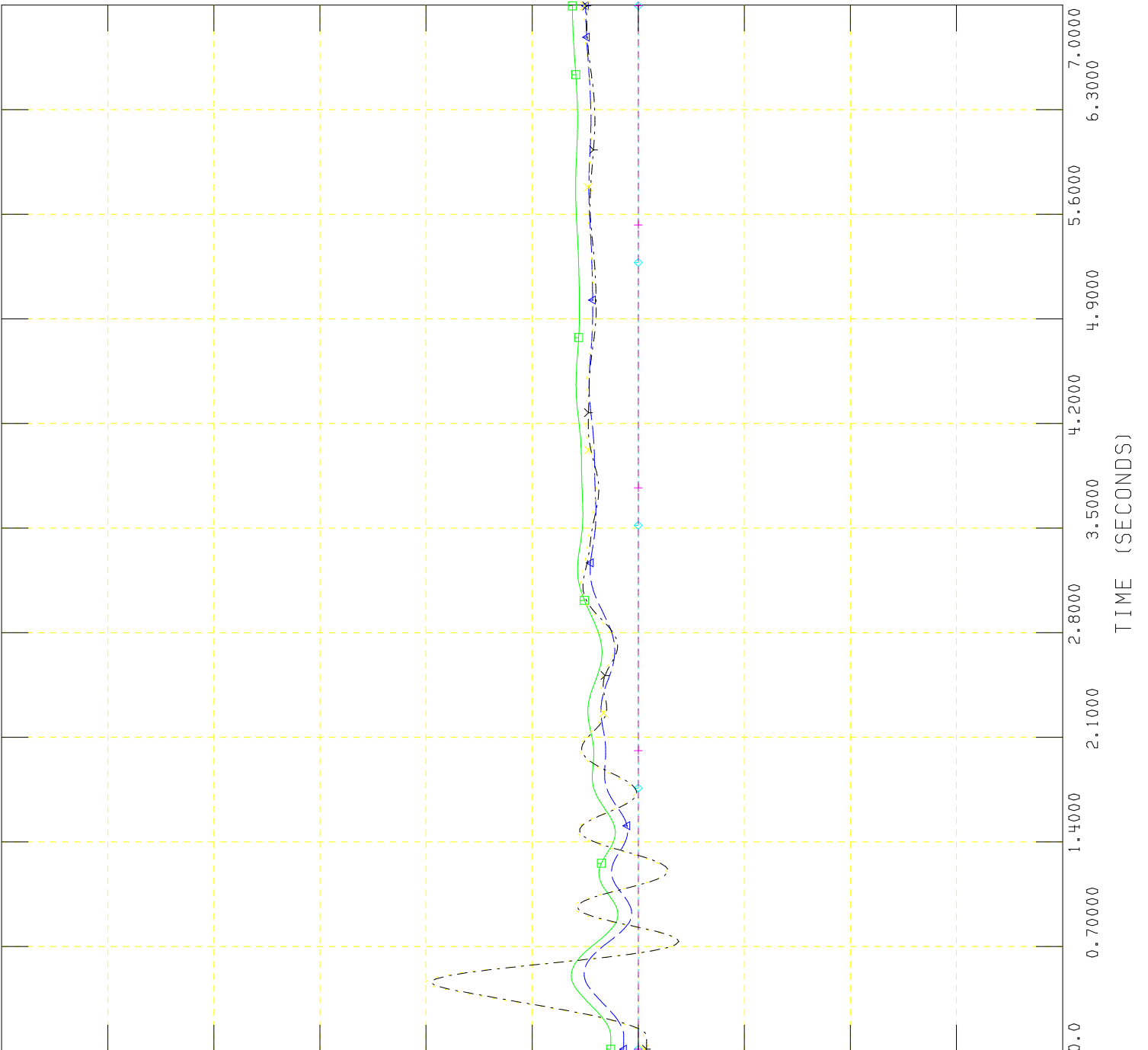
**FAULT 4a**  
**Lewis Creek – Security 138 kV**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**



LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

Channel	Label	Value
6	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



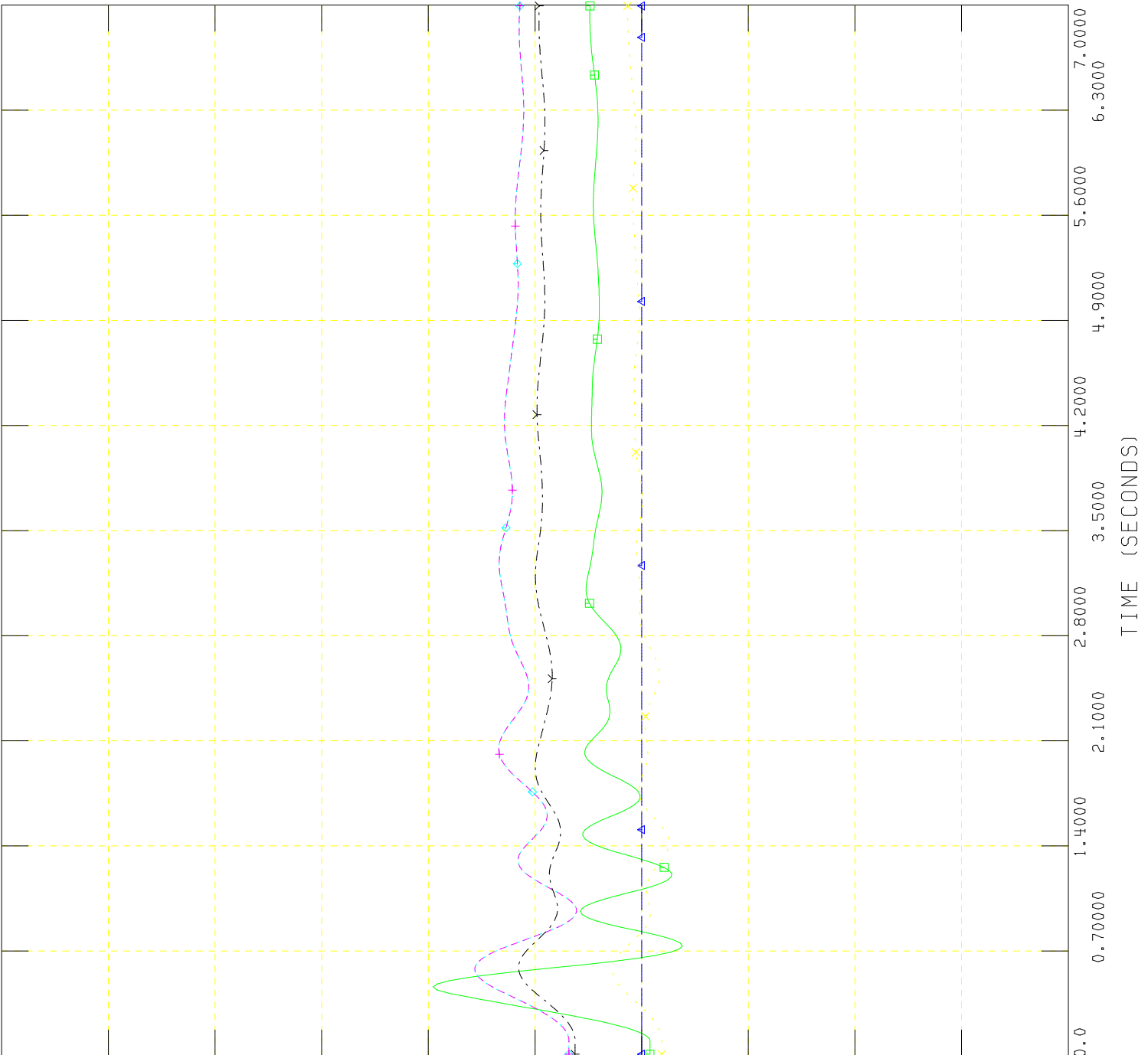
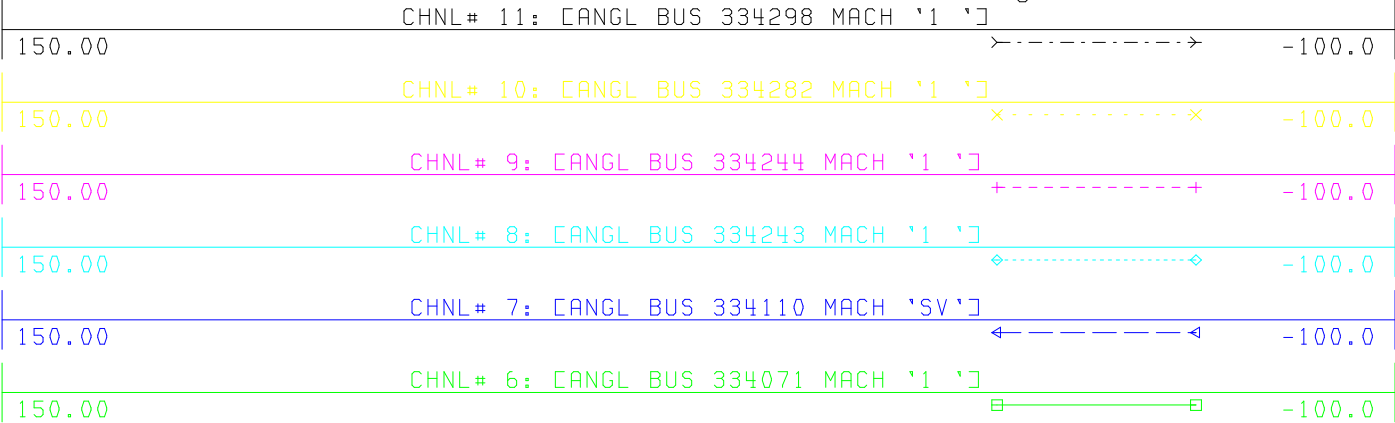
FRI, JUN 13 2008 12:09  
MACHINE ANGLES - 01



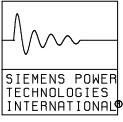


LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out



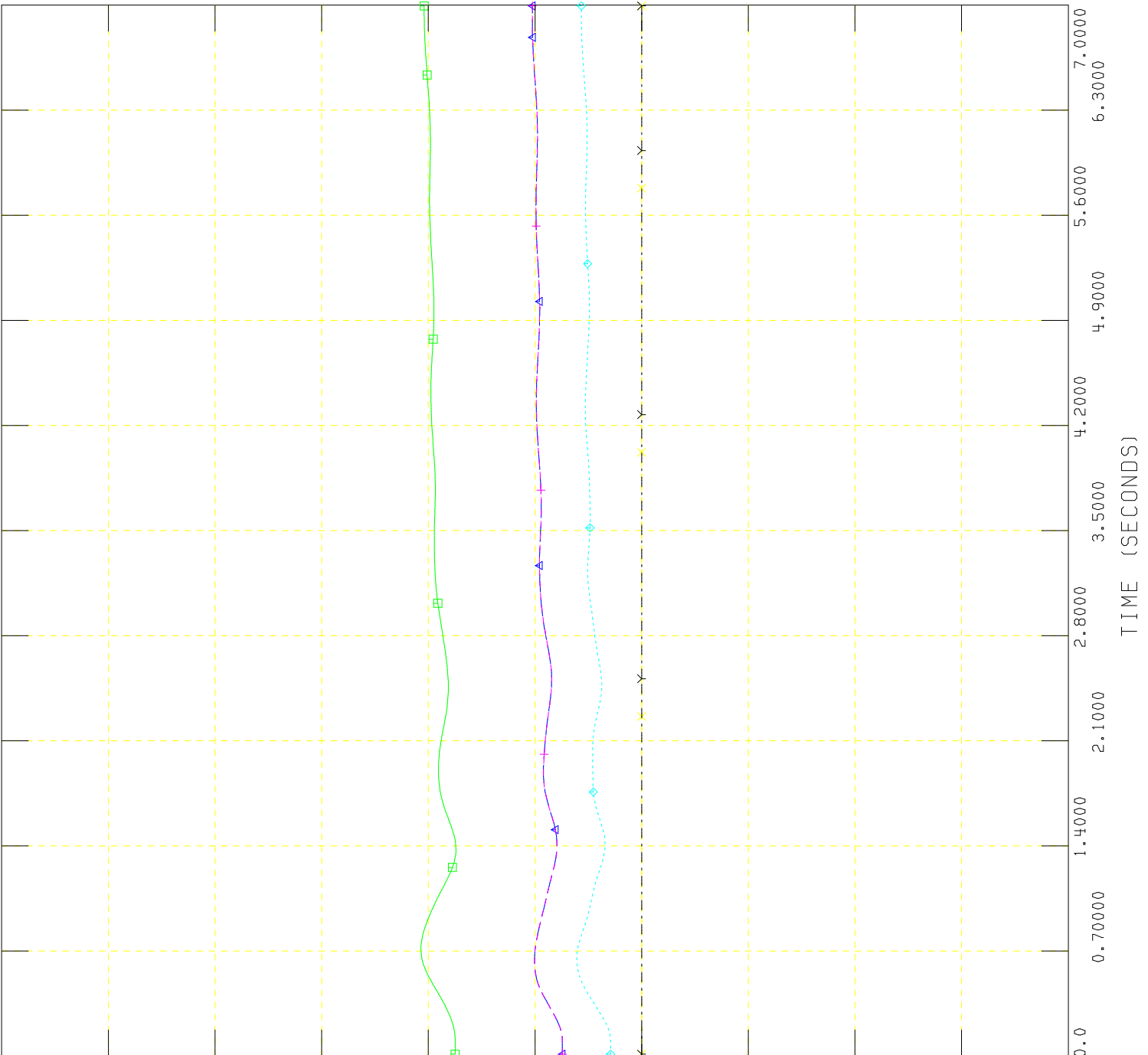
FRI, JUN 13 2008 12:09  
MACHINE ANGLES - 02



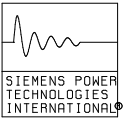
LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

Channel	Label	Value
18	CHNL# 18: [ANGL BUS 334380 MACH '1 ']	-100.0
17	CHNL# 17: [ANGL BUS 334377 MACH '1 ']	-100.0
16	CHNL# 16: [ANGL BUS 334376 MACH '1 ']	-100.0
15	CHNL# 15: [ANGL BUS 334375 MACH '1 ']	-100.0
14	CHNL# 14: [ANGL BUS 334374 MACH '1 ']	-100.0
13	CHNL# 13: [ANGL BUS 334335 MACH '1 ']	-100.0



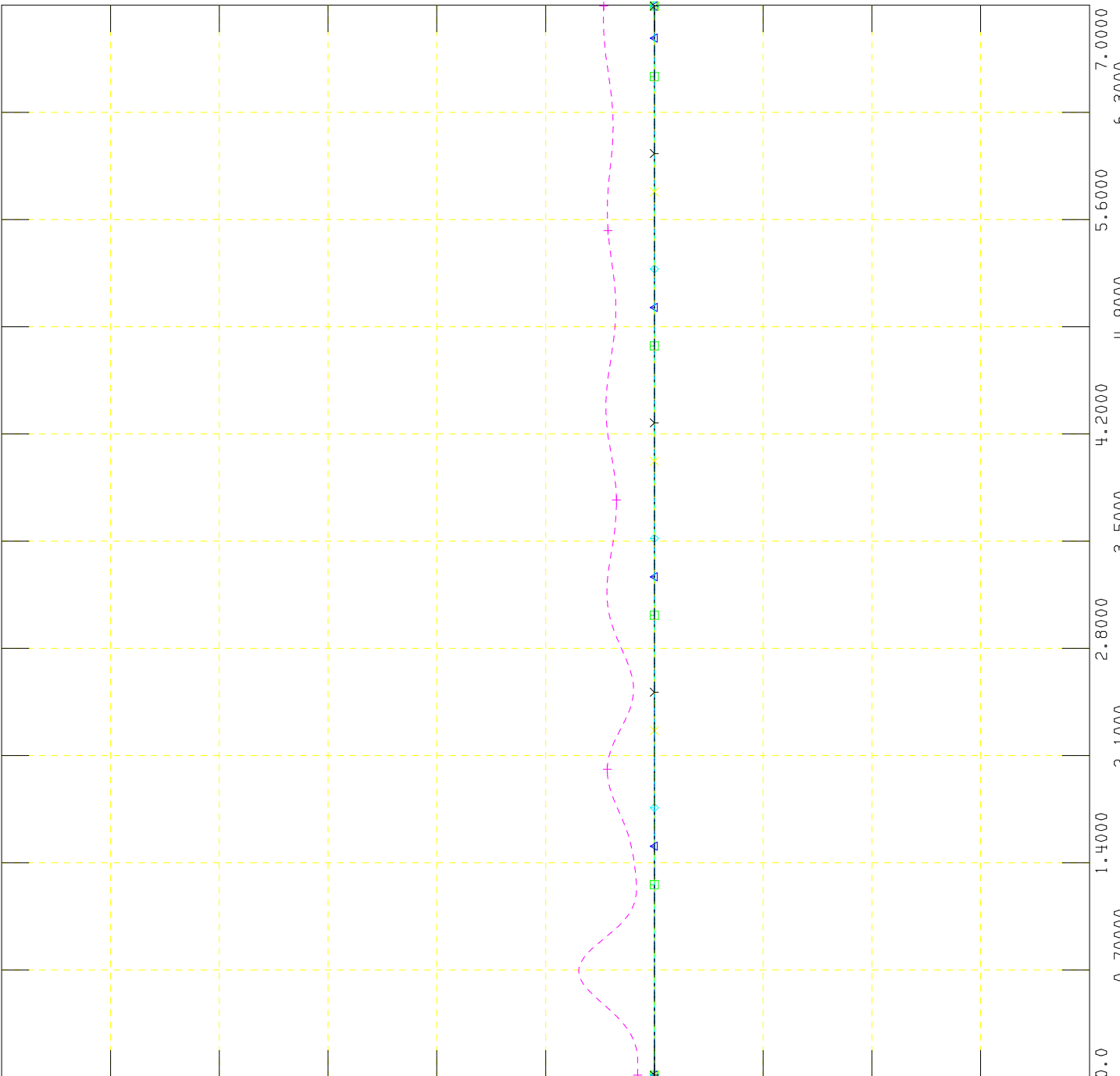
FRI, JUN 13 2008 12:09  
MACHINE ANGLES - 03



LC  
 LC-SECURITY-STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

Channel	Label	Value
CHNL# 24	[ANGL BUS 334394 MACH '1 ']	-100.0
CHNL# 23	[ANGL BUS 334393 MACH '1 ']	-100.0
CHNL# 22	[ANGL BUS 334392 MACH '1 ']	-100.0
CHNL# 21	[ANGL BUS 334383 MACH '1 ']	-100.0
CHNL# 20	[ANGL BUS 334382 MACH '1 ']	-100.0
CHNL# 19	[ANGL BUS 334381 MACH '1 ']	-100.0

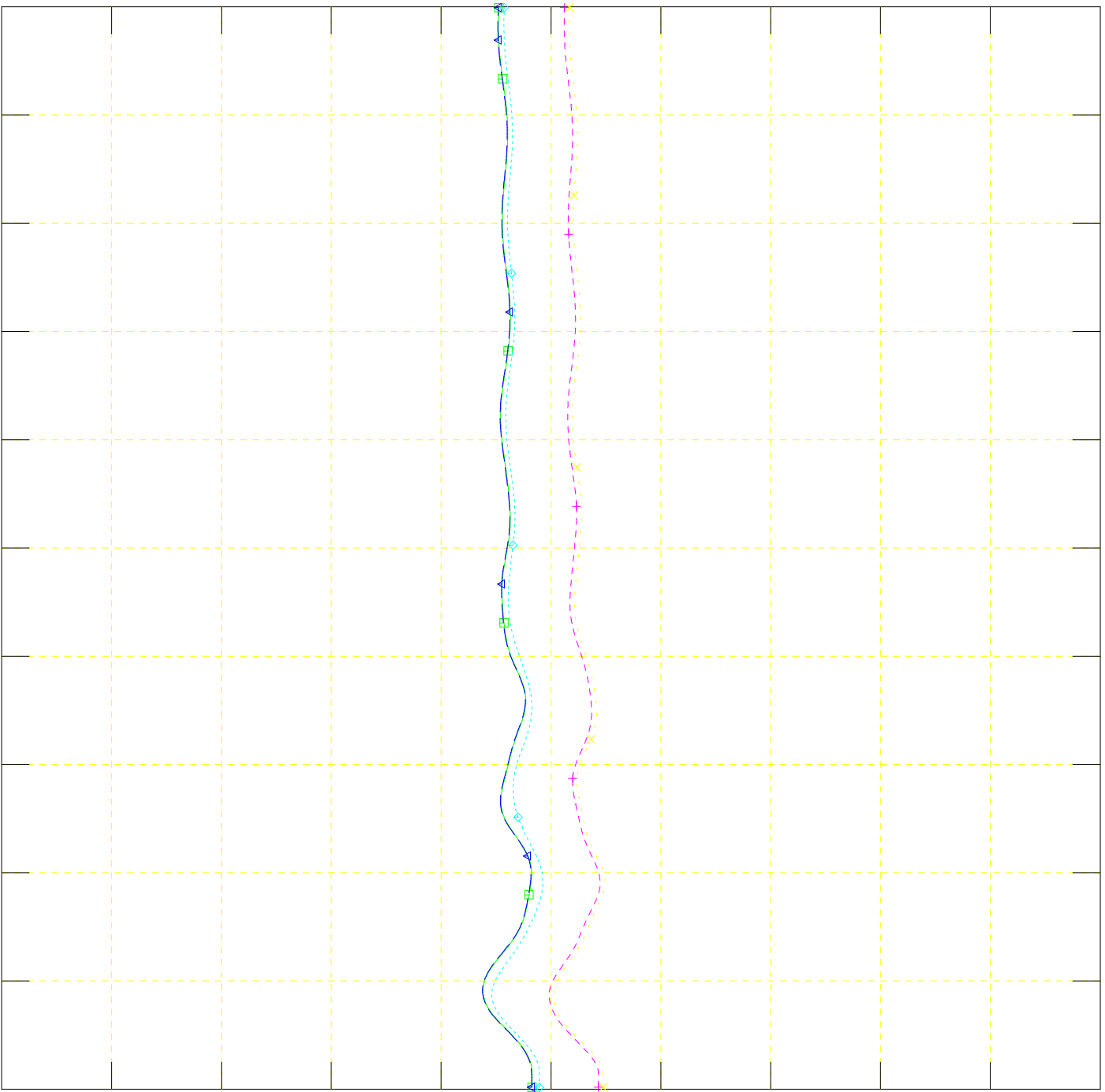
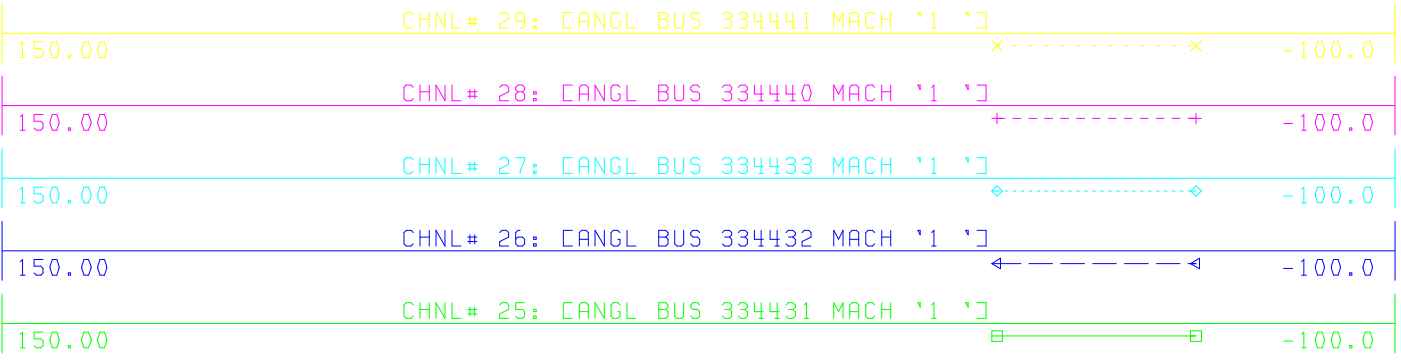


FRI, JUN 13 2008 12:09  
 MACHINE ANGLES - 04



LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out



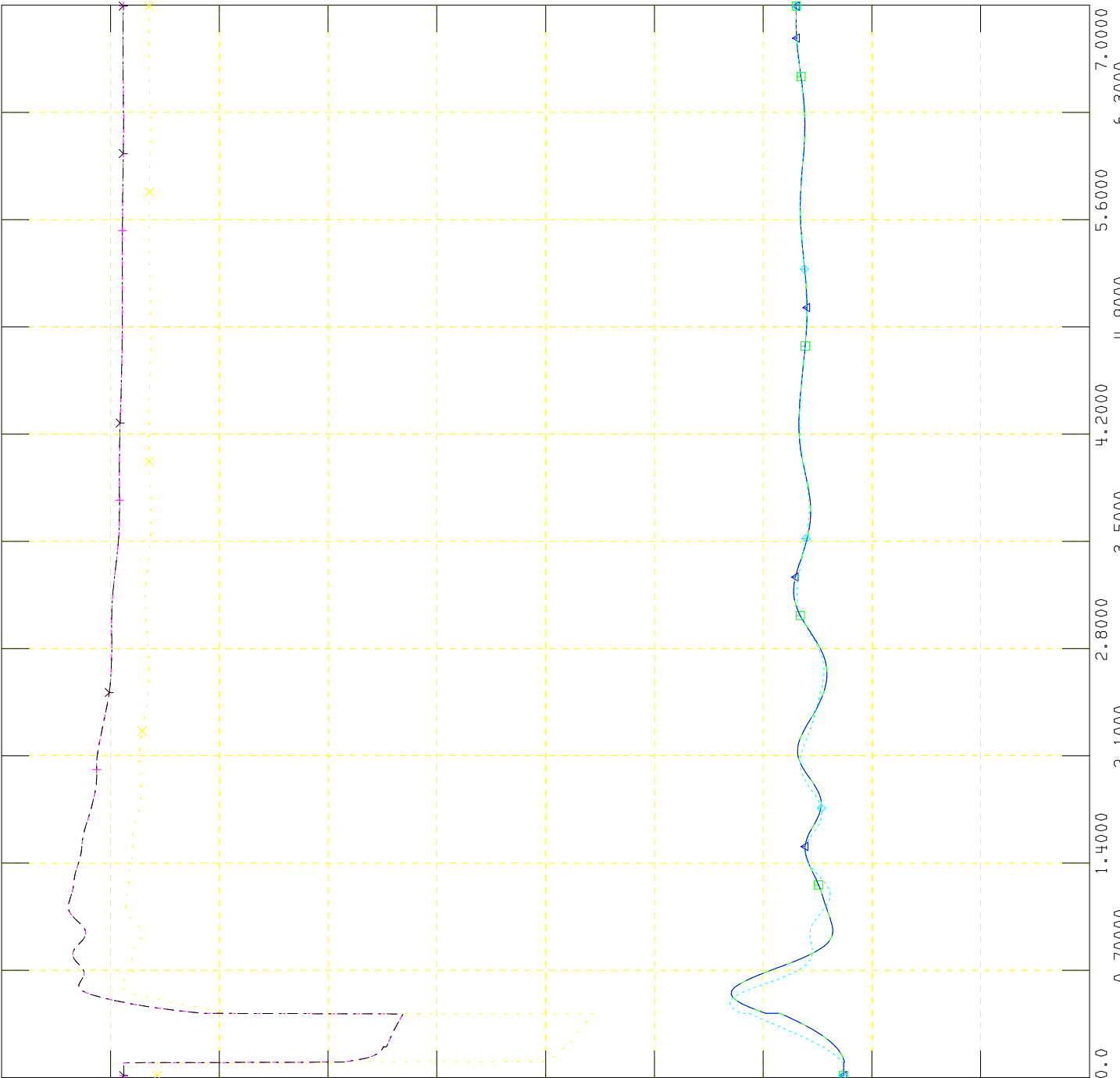
FRI, JUN 13 2008 12:09  
MACHINE ANGLES - 05



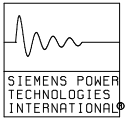
LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



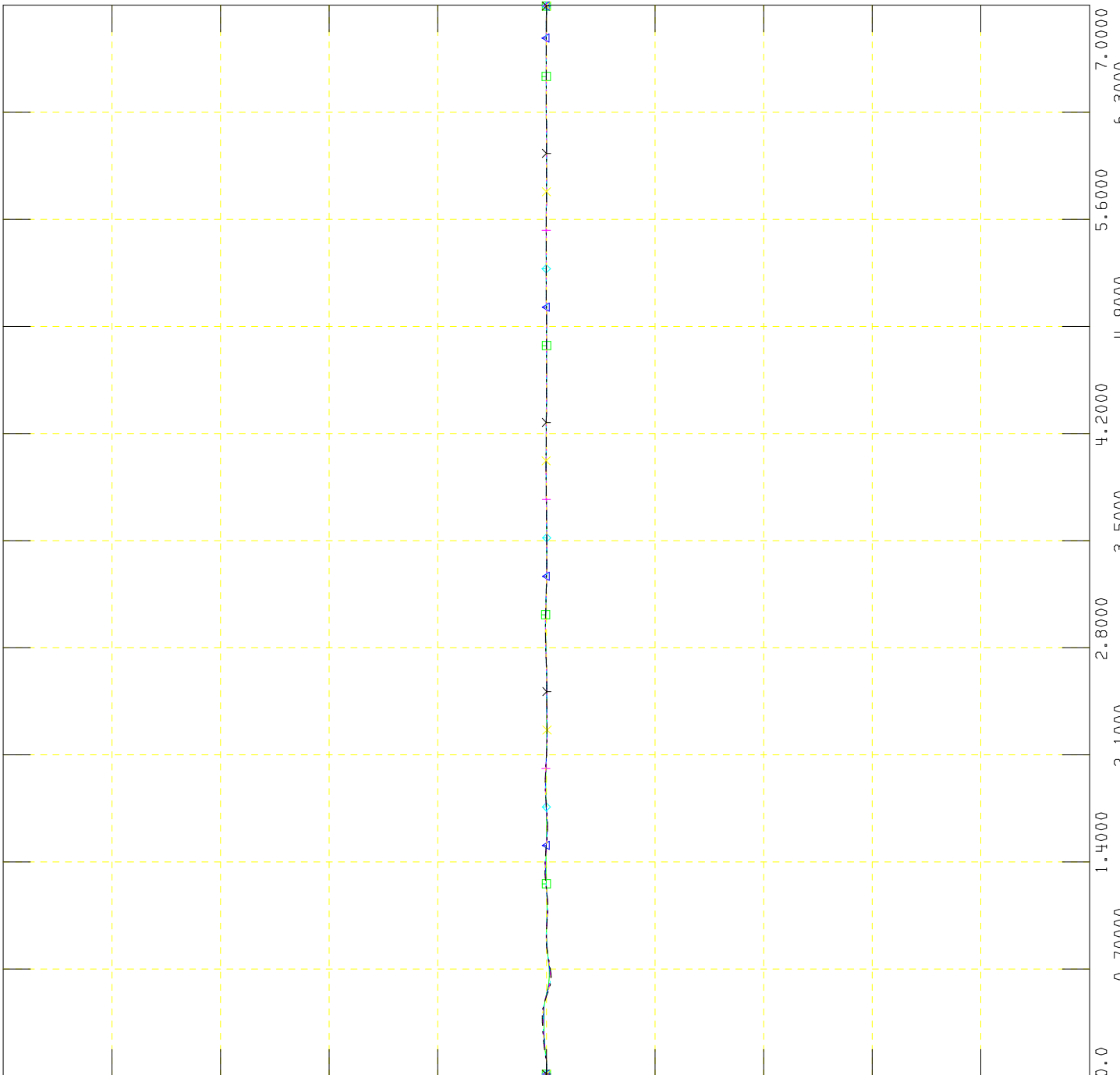
FRI, JUN 13 2008 12:09  
ANG & VOLT - PID-211 GENS



LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

Channel	FREQ	Value	Symbol
CHNL# 41	CFREQ 334065	138.00	→
CHNL# 40	CFREQ 334064	138.00	×
CHNL# 39	CFREQ 334063	138.00	+
CHNL# 38	CFREQ 334062	138.00	◇
CHNL# 37	CFREQ 334061	138.00	←
CHNL# 36	CFREQ 334060	138.00	■



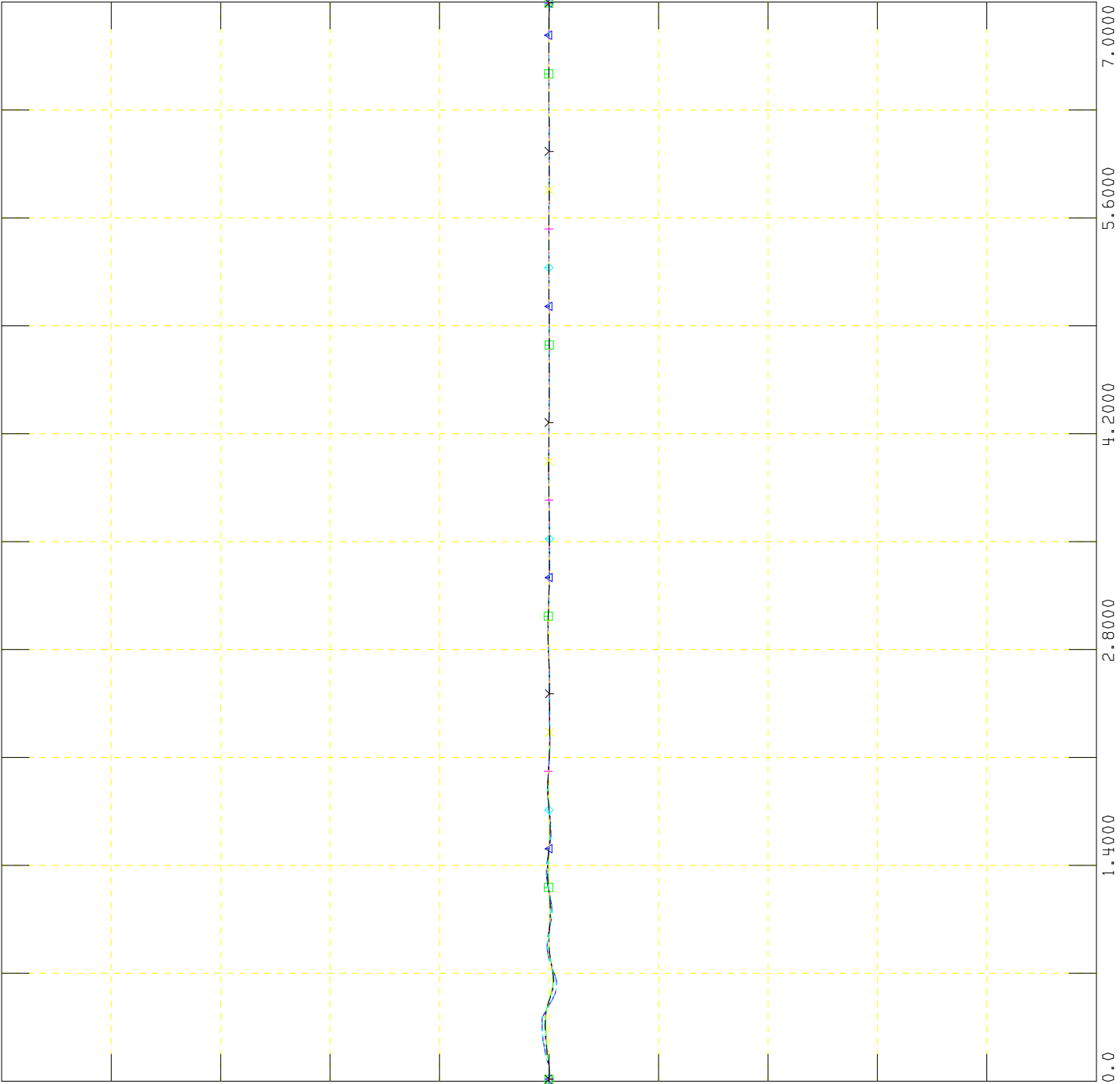
FRI, JUN 13 2008 12:09  
MACHINE FREQUENCIES - 01



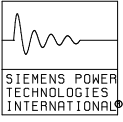
LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

Channel	FREQ	Value
CHNL# 47	CFREQ 334074 C4PANORAM	138.00
CHNL# 46	CFREQ 334073 C4EGYPT	138.00
CHNL# 45	CFREQ 334072 C4LEWIS	138.00
CHNL# 44	CFREQ 334071 C62LEWIS	22.00
CHNL# 43	CFREQ 334070 C61LEWIS	22.00
CHNL# 42	CFREQ 334066 C4GEORGIA	138.00



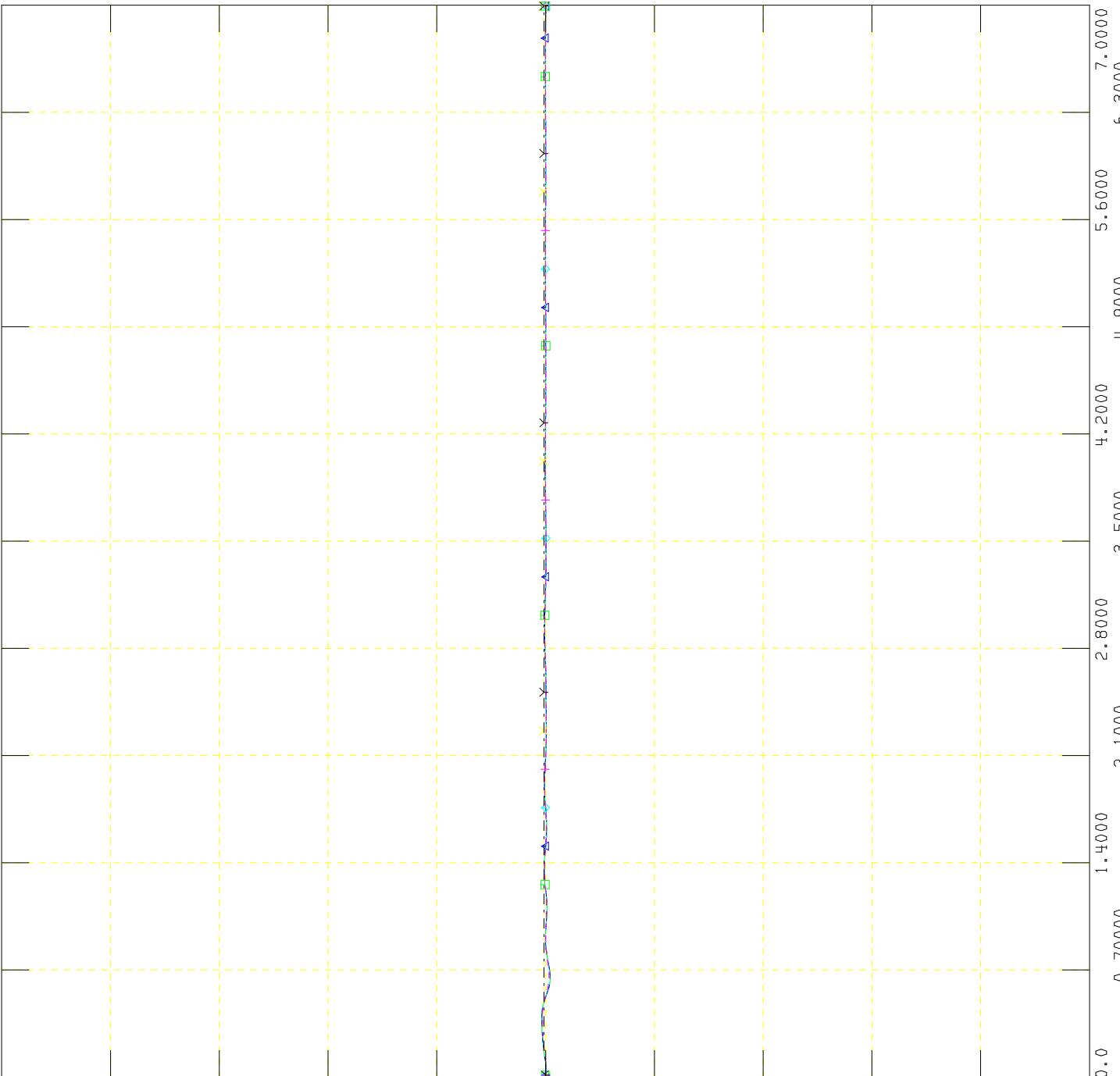
FRI, JUN 13 2008 12:09  
MACHINE FREQUENCIES - 02



LC  
 LC-SECURITY-STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



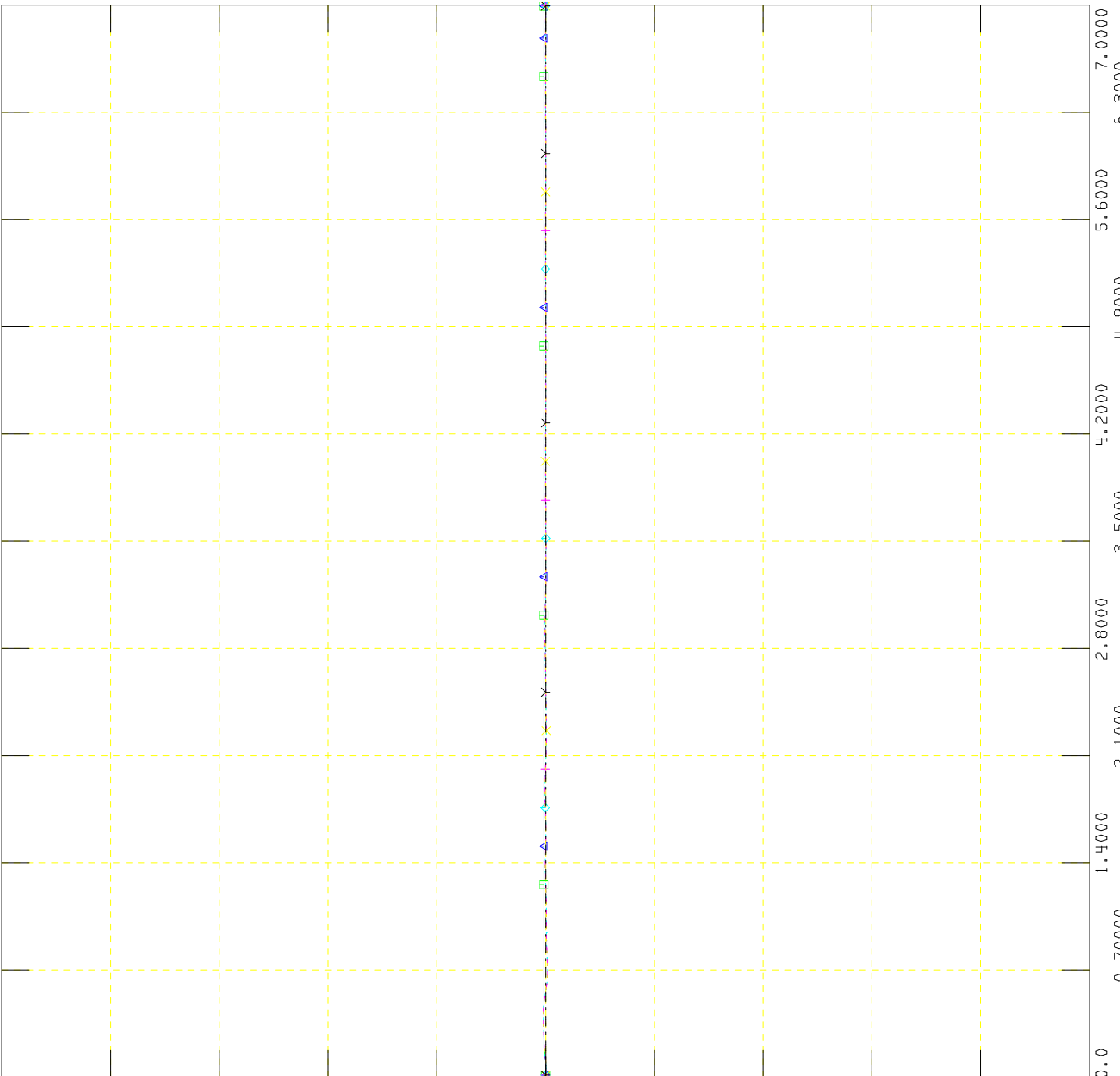
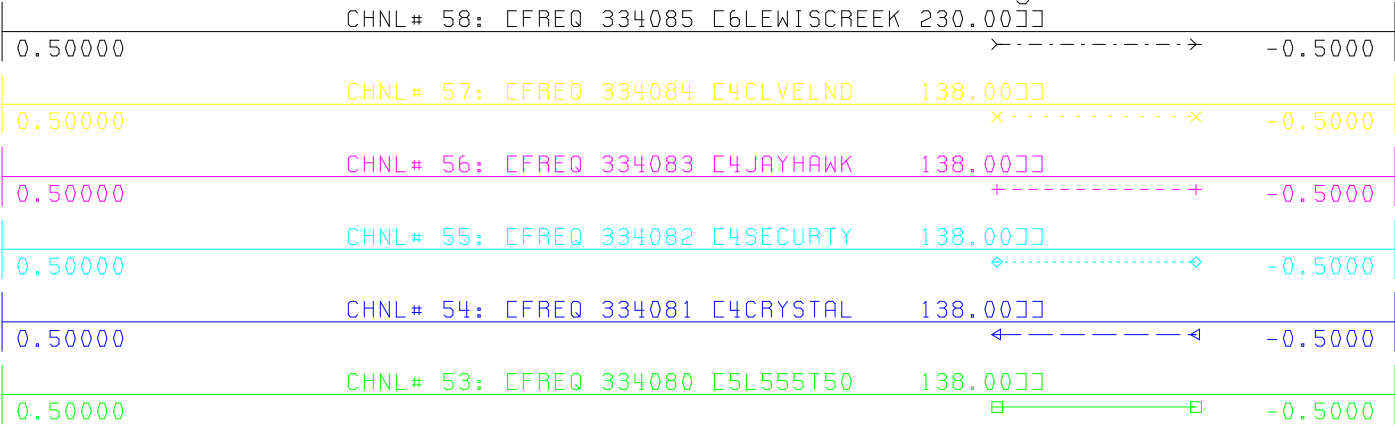
FRI, JUN 13 2008 12:09  
 MACHINE FREQUENCIES - 03



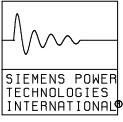


LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out  
CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



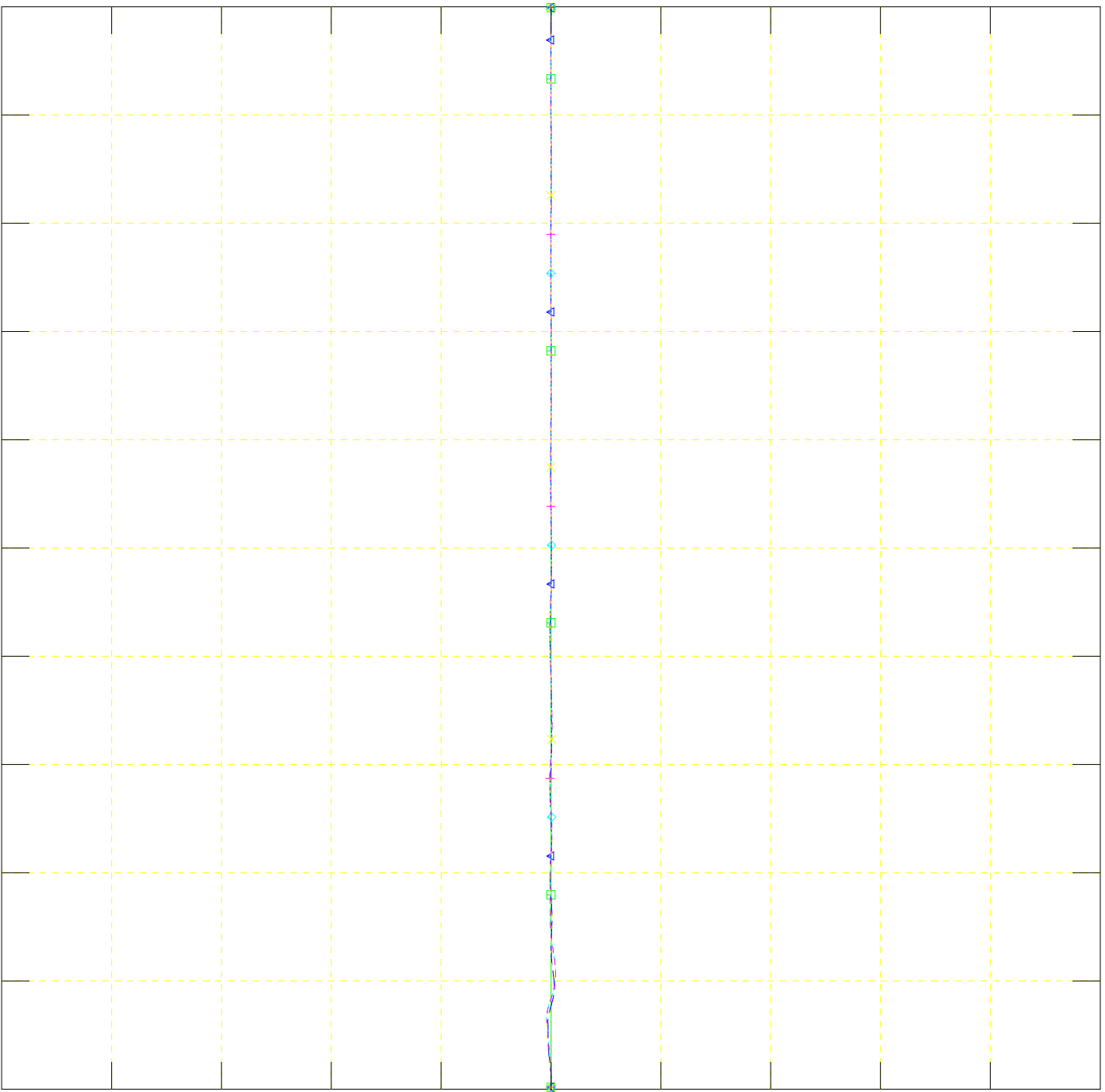
FRI, JUN 13 2008 12:09  
MACHINE FREQUENCIES - 04



LC  
 LC-SECURITY-STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

0.50000	CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	x-----x	-0.50000
0.50000	CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	+-----+	-0.50000
0.50000	CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	◇-----◇	-0.50000
0.50000	CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	←-----←	-0.50000
0.50000	CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	▣-----▣	-0.50000



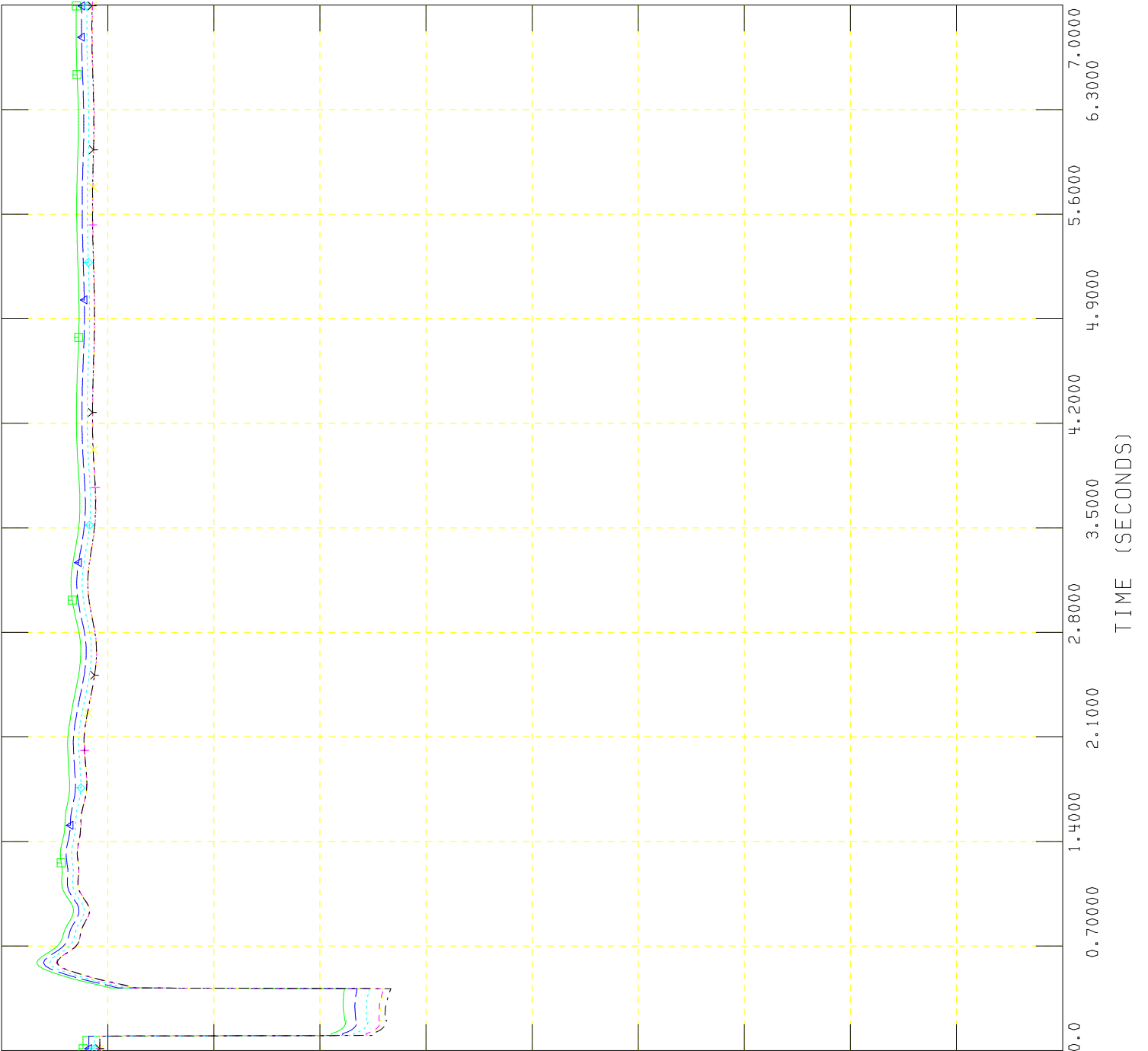
FRI, JUN 13 2008 12:09  
 MACHINE FREQUENCIES - 05



LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

Channel	Label	Value
CHNL# 69	[VOLT 334055 [4RIVTRIN 138.00]]	1.1000
CHNL# 68	[VOLT 334054 [4WALKER 138.00]]	1.1000
CHNL# 67	[VOLT 334053 [4CINCINT 138.00]]	1.1000
CHNL# 66	[VOLT 334052 [4CEDAR 138.00]]	1.1000
CHNL# 65	[VOLT 334051 [4BISHOP 138.00]]	1.1000
CHNL# 64	[VOLT 334050 [4PEE DEE 138.00]]	1.1000



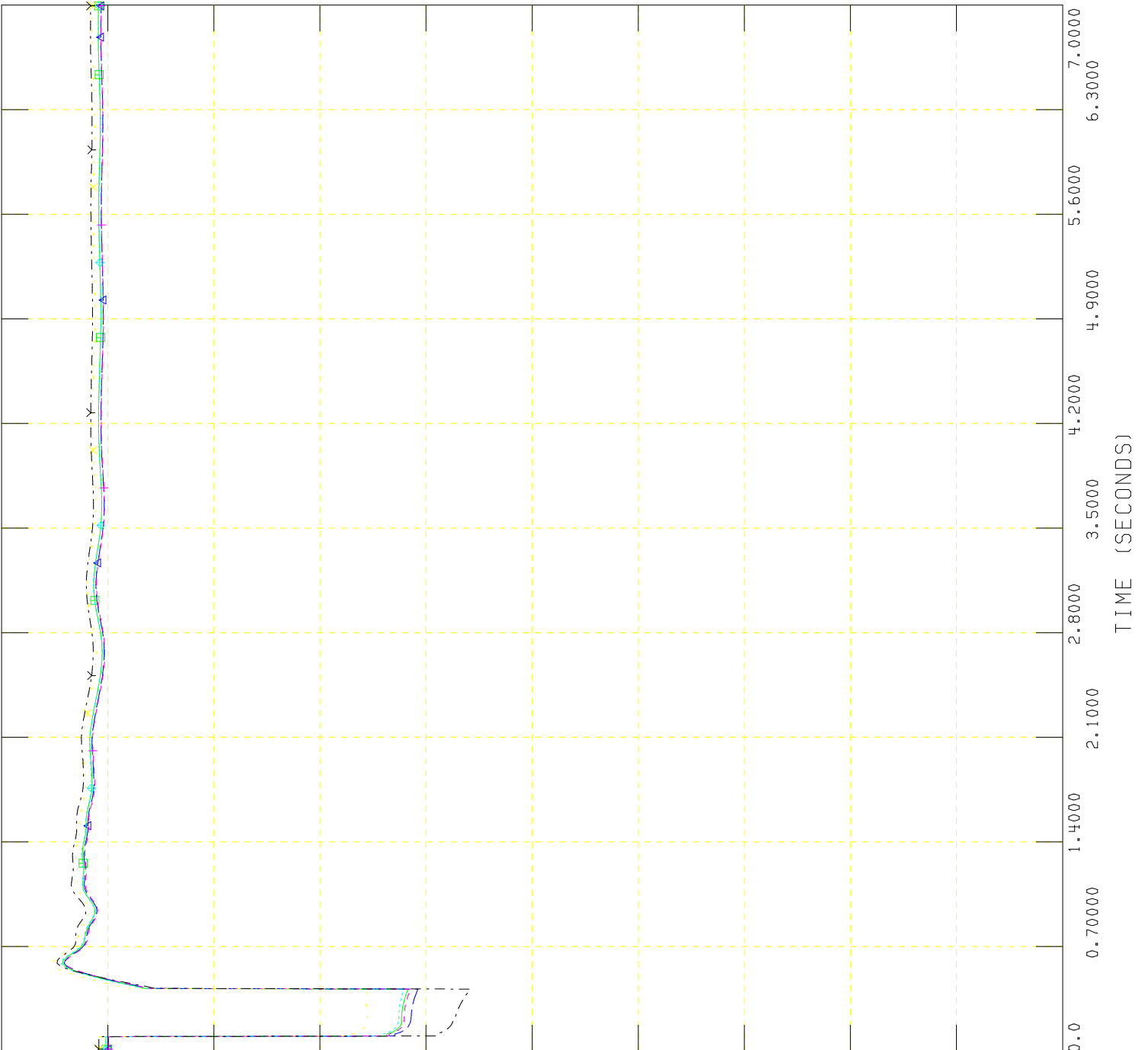
FRI, JUN 13 2008 12:09  
BUS VOLTAGES - 01



LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



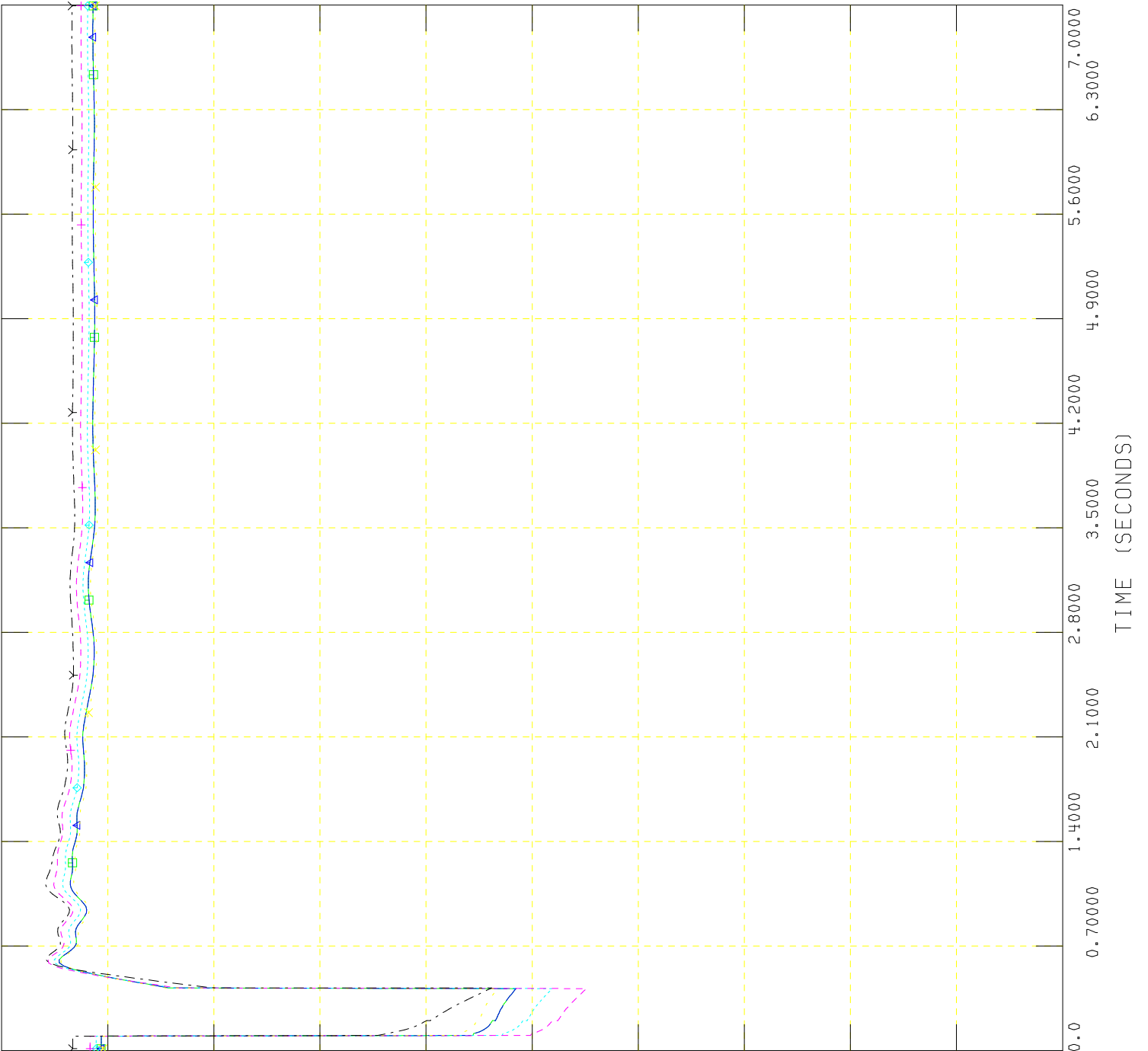
FRI, JUN 13 2008 12:09  
BUS VOLTAGES - 02



LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



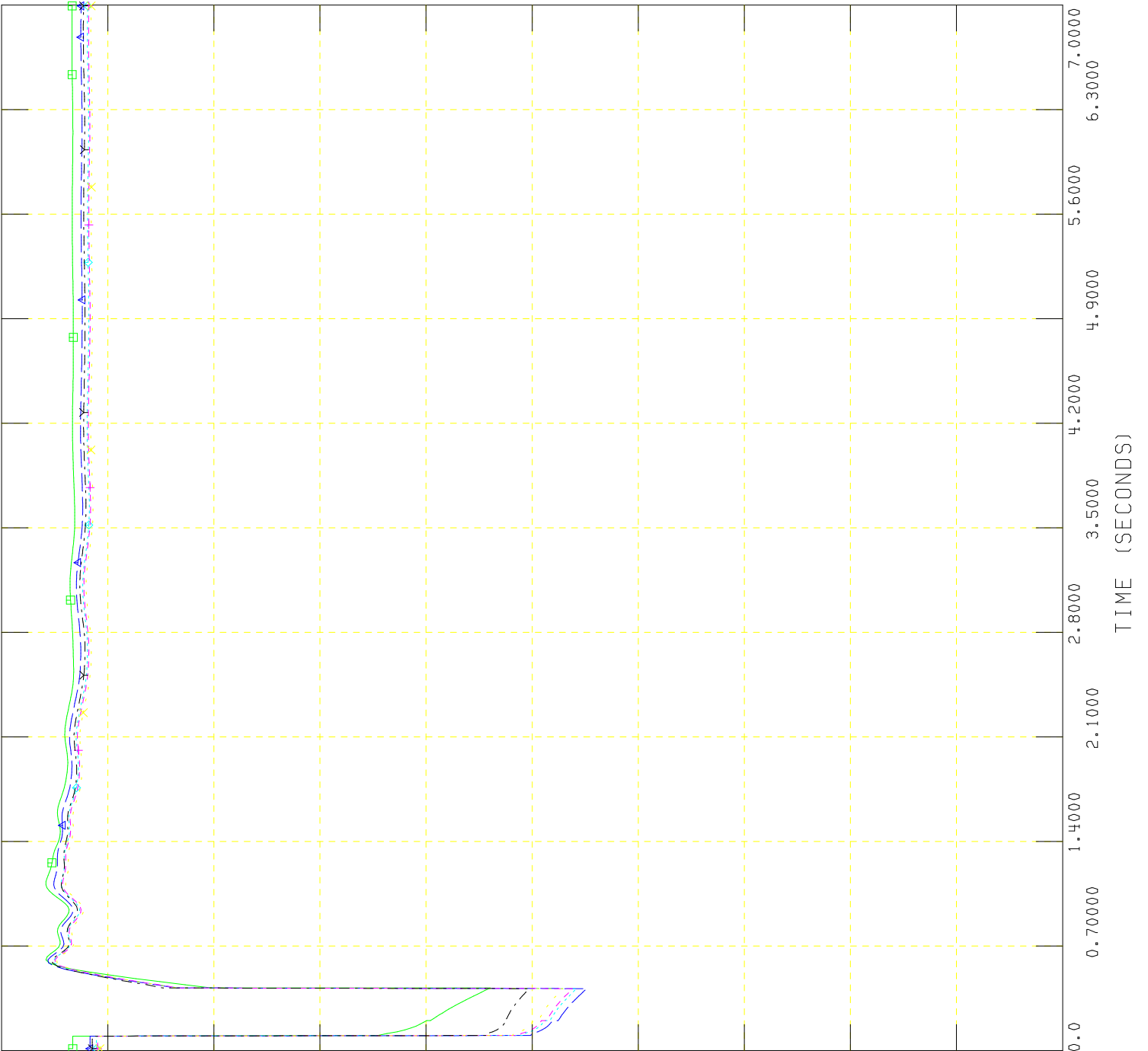
FRI, JUN 13 2008 12:10  
BUS VOLTAGES - 03



LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



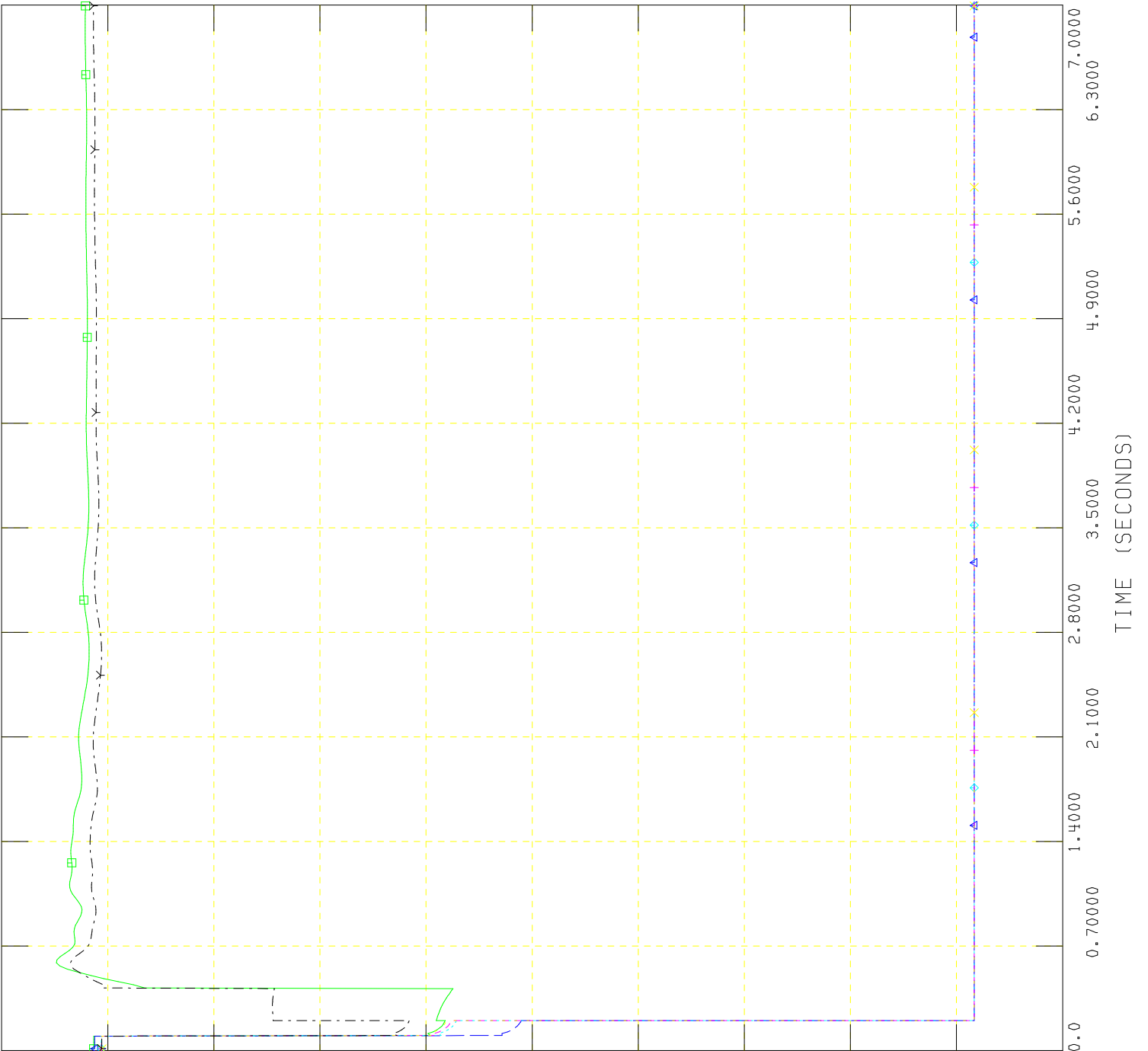
FRI, JUN 13 2008 12:10  
BUS VOLTAGES - 04



LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

Channel	Label	Value
CHNL# 93	[VOLT 334082 C4SECURTY	138.00]]
CHNL# 92	[VOLT 334081 C4CRYSTAL	138.00]]
CHNL# 91	[VOLT 334080 C5L555T50	138.00]]
CHNL# 90	[VOLT 334079 C4FWPIPE	138.00]]
CHNL# 89	[VOLT 334078 C4SHEAWIL	138.00]]
CHNL# 88	[VOLT 334077 C4PECHCK#	138.00]]



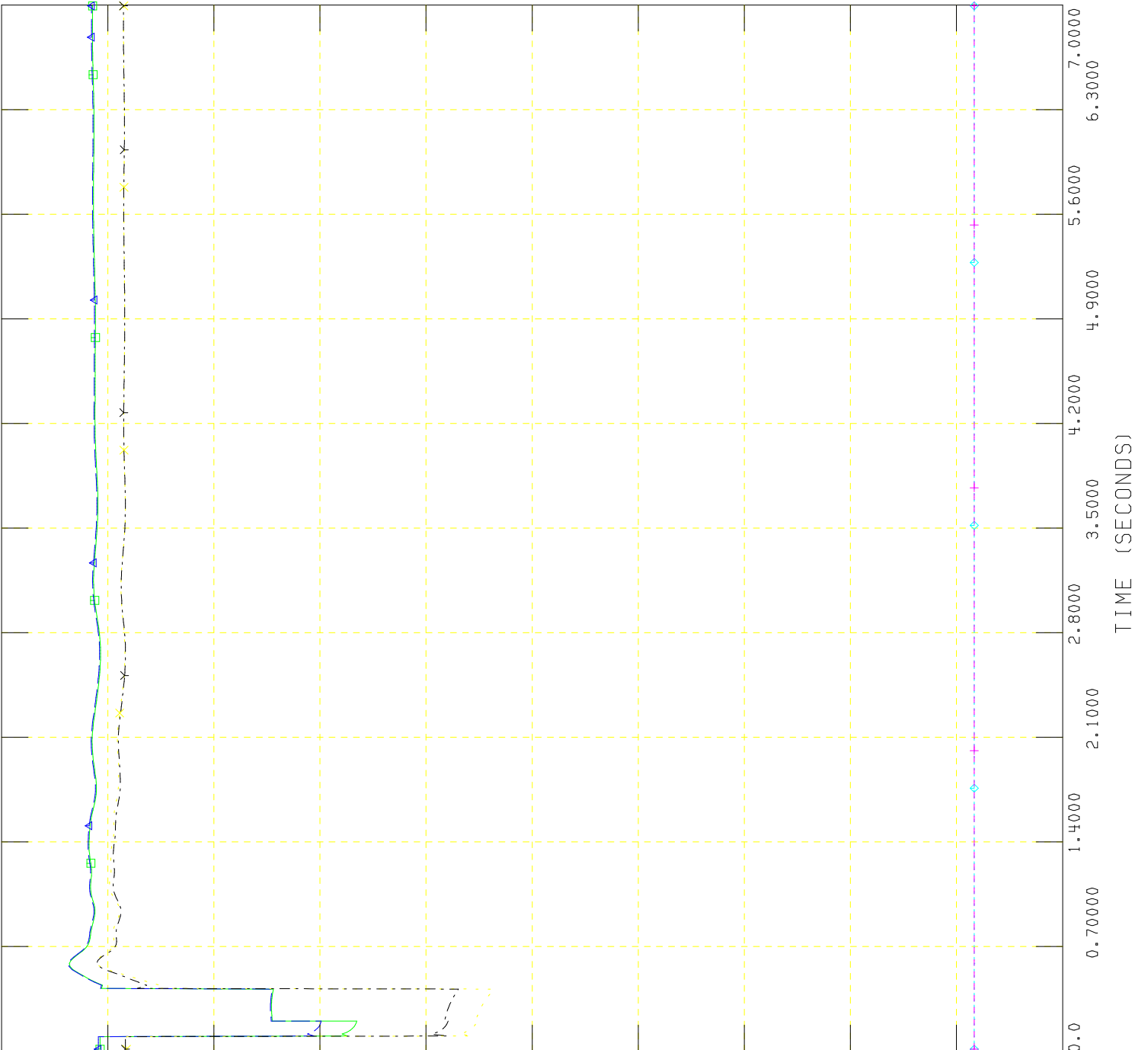
FRI, JUN 13 2008 12:10  
BUS VOLTAGES - 05



LC  
 LC-SECURITY-STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



FRI, JUN 13 2008 12:10  
 BUS VOLTAGES - 06

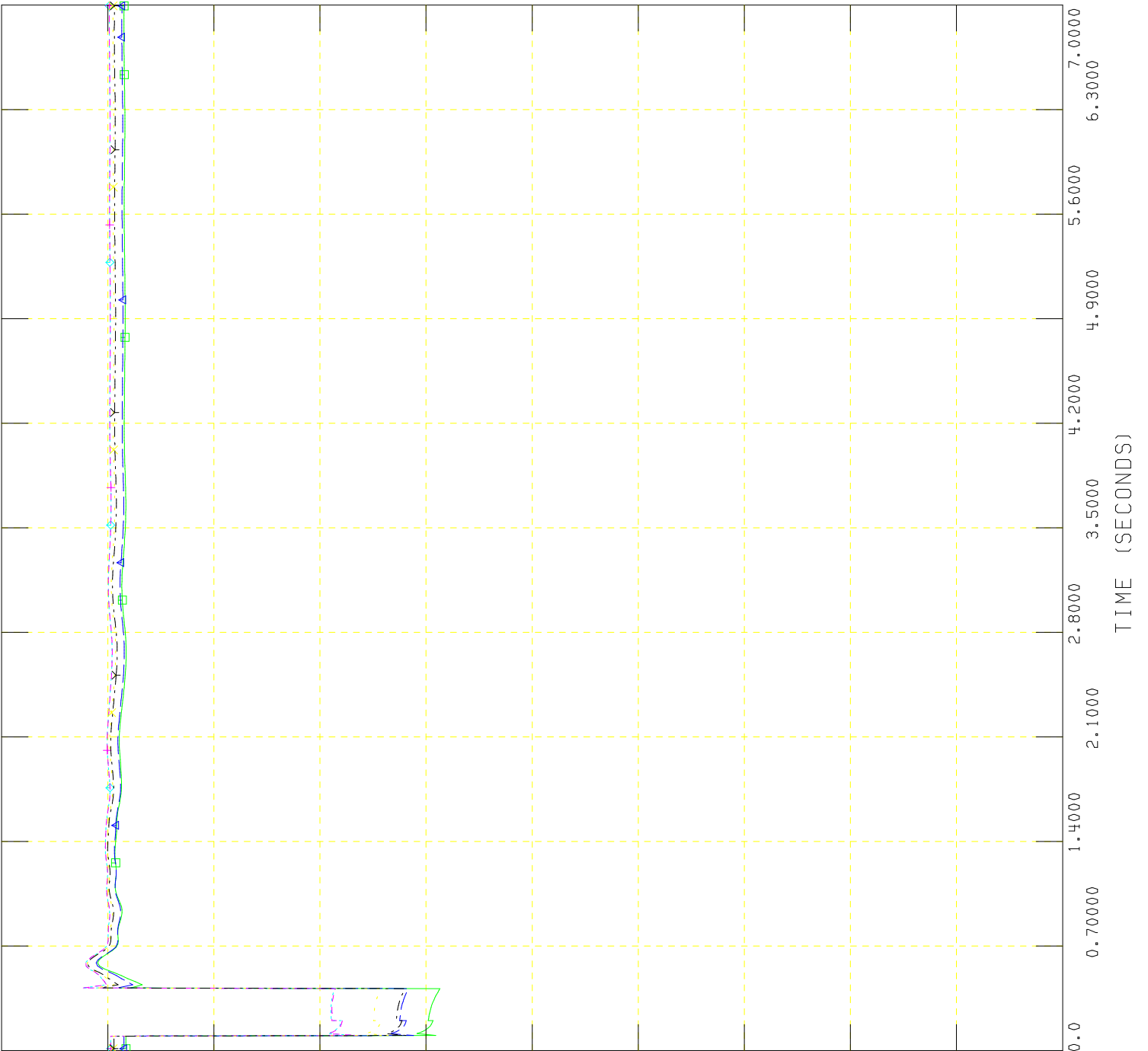




LC  
 LC-SECURITY-STUCK BRKR CONDS  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



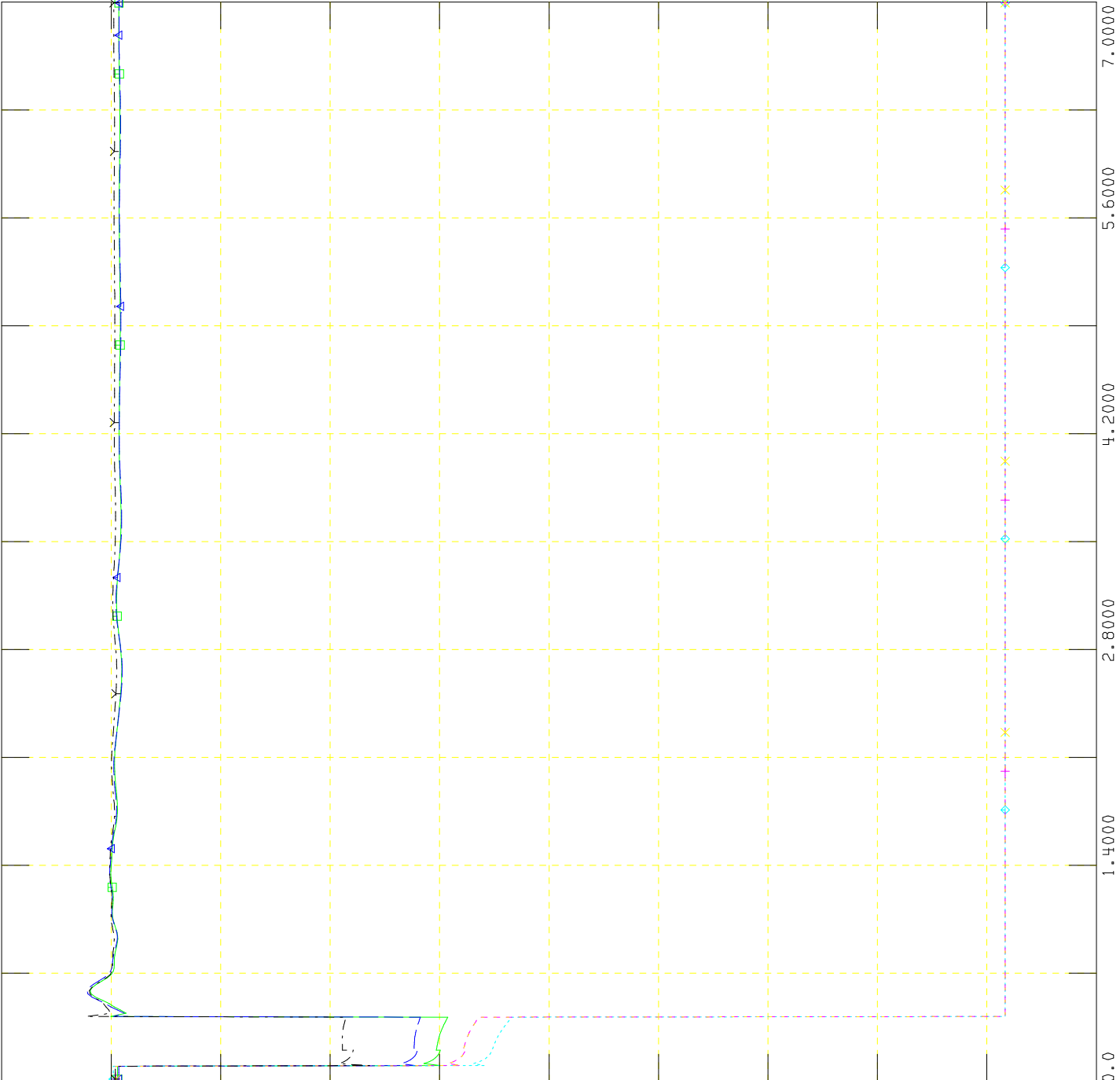
FRI, JUN 13 2008 12:10  
 BUS VOLTAGES - 07



LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



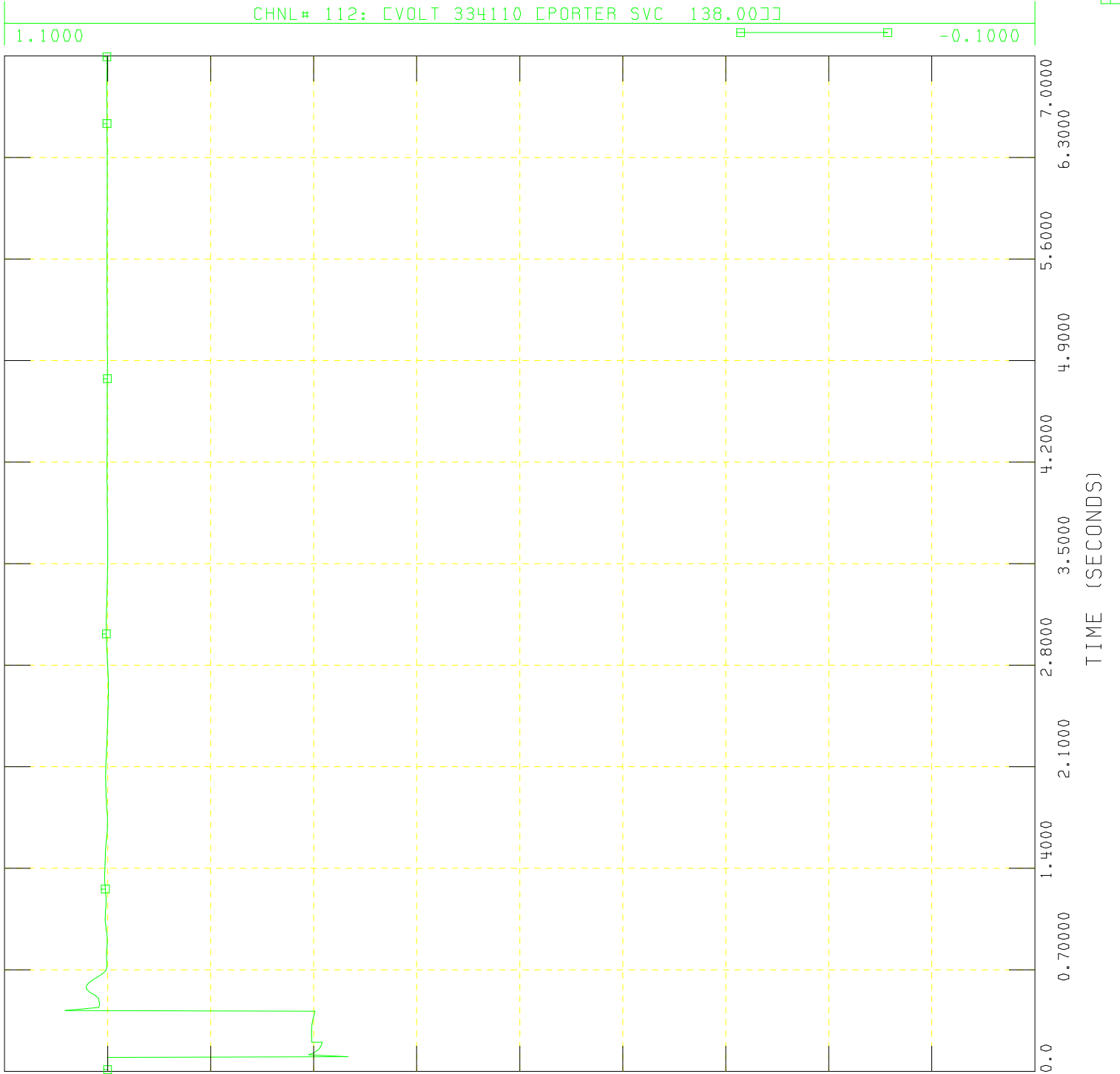
FRI, JUN 13 2008 12:10  
BUS VOLTAGES - 08



LC  
LC-SECURITY-STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Security-4a.out

FRI, JUN 13 2008 12:10  
BUS VOLTAGES - 09



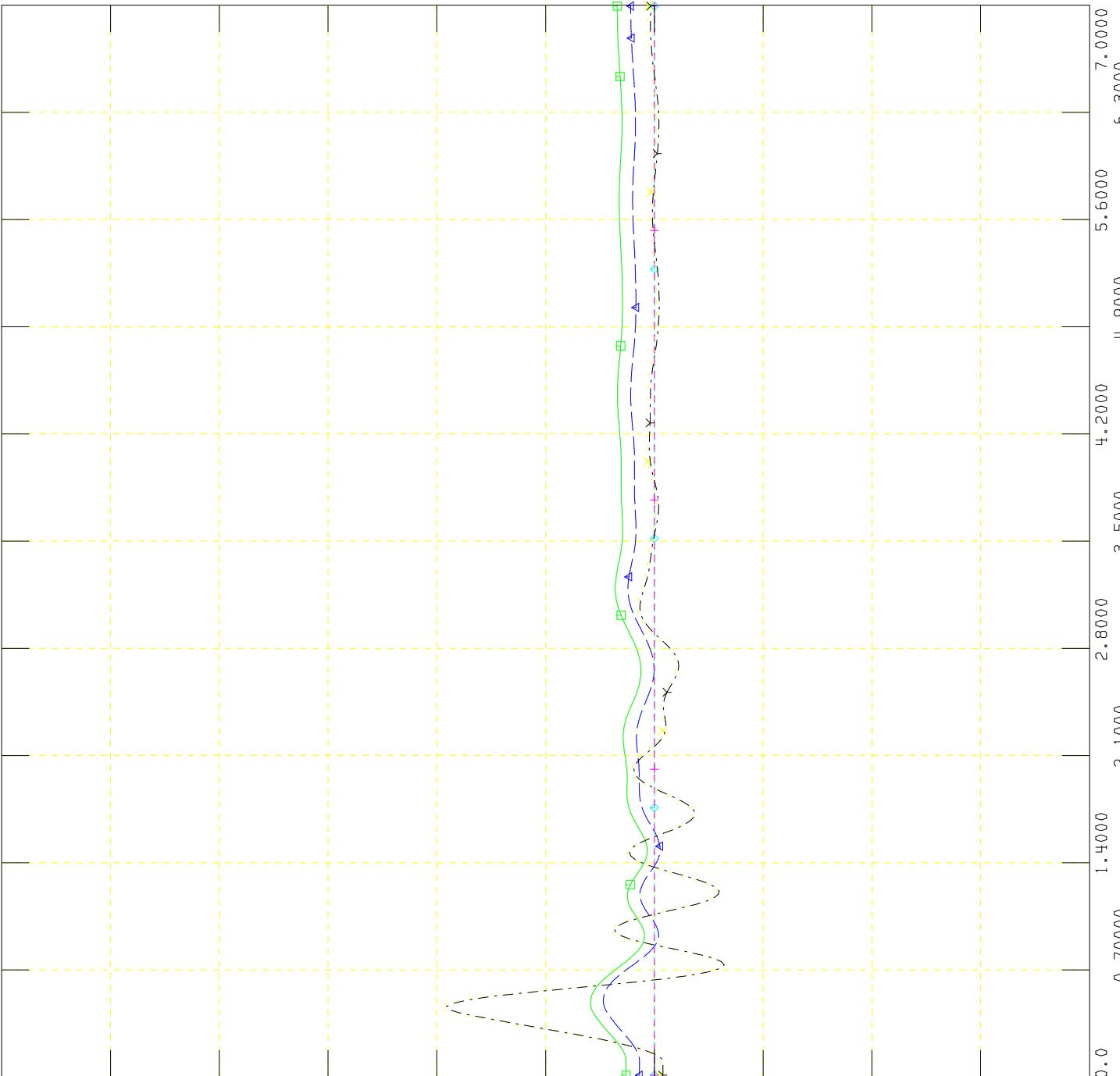
**FAULT 5a**  
**Lewis Creek – Rivtrin 138 kV**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**



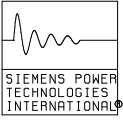
LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

Channel	Legend	Value
CHNL# 6	[ANGL BUS 334071 MACH '1 ']	-100.0
CHNL# 5	[ANGL BUS 334070 MACH '1 ']	-100.0
CHNL# 4	[ANGL BUS 334033 MACH '1 ']	-100.0
CHNL# 3	[ANGL BUS 334032 MACH '1 ']	-100.0
CHNL# 2	[ANGL BUS 334031 MACH '1 ']	-100.0
CHNL# 1	[ANGL BUS 334030 MACH '1 ']	-100.0



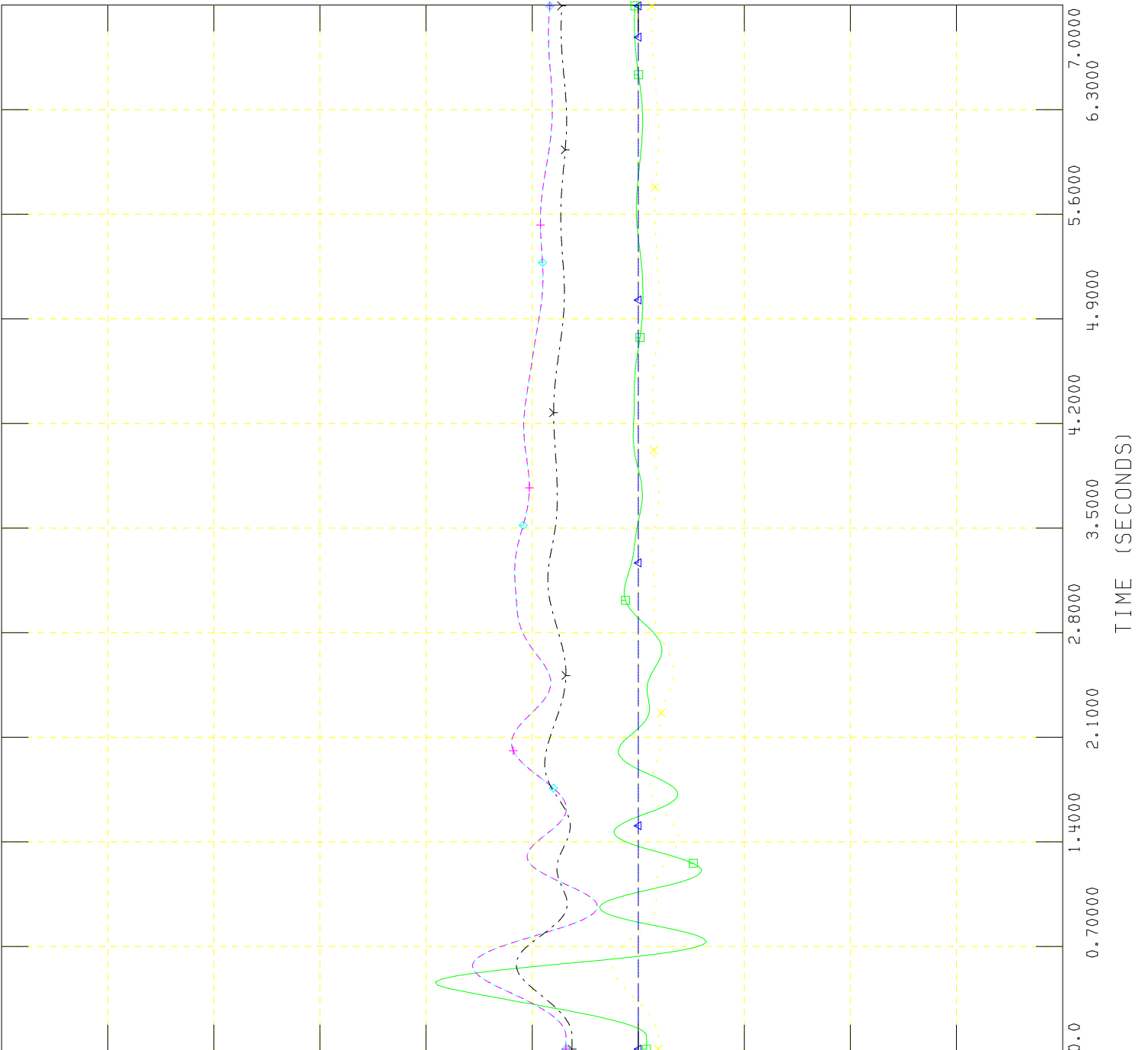
FRI, JUN 13 2008 12:14  
MACHINE ANGLES - 01



LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

Channel	Label	Value
150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

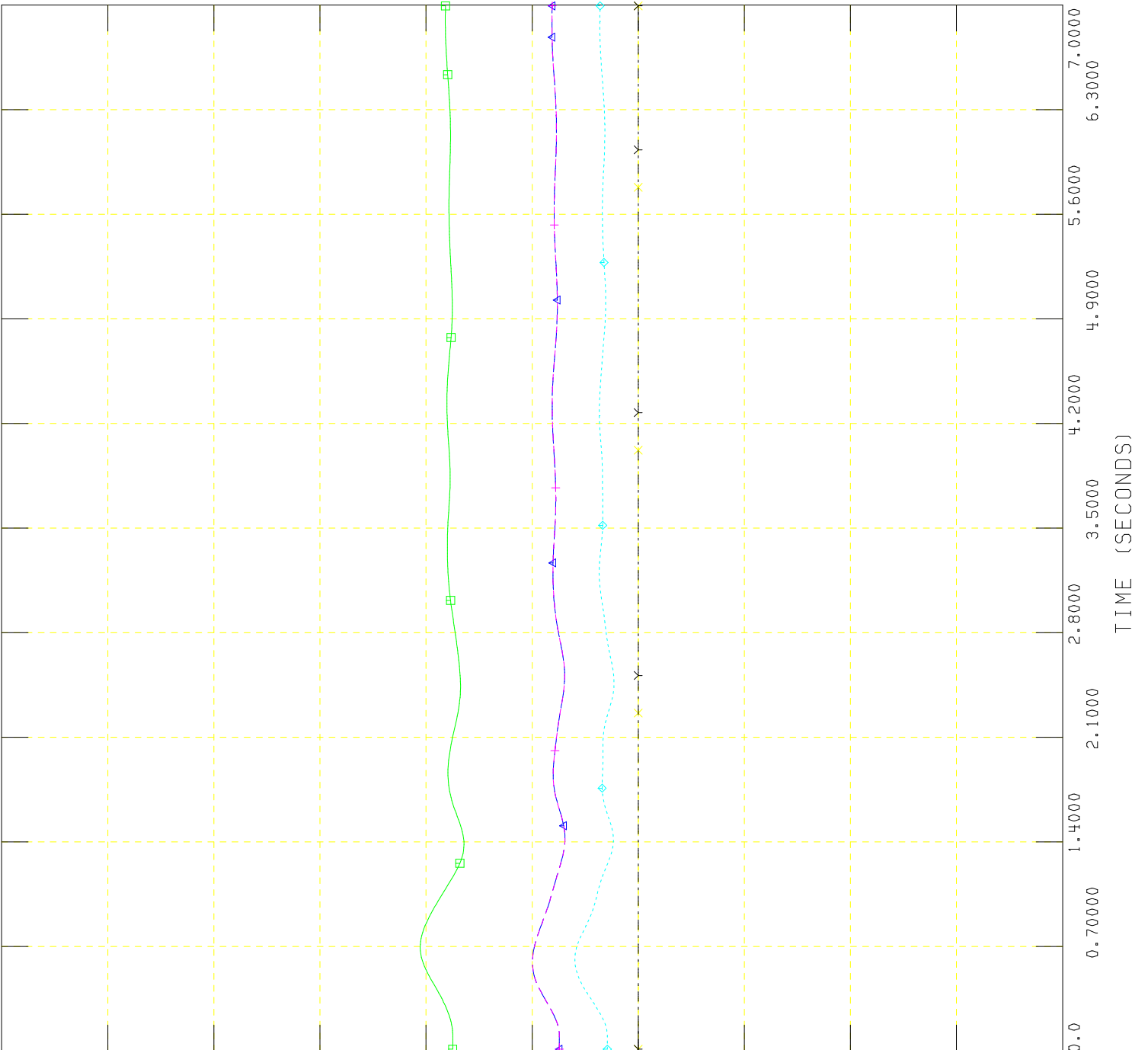
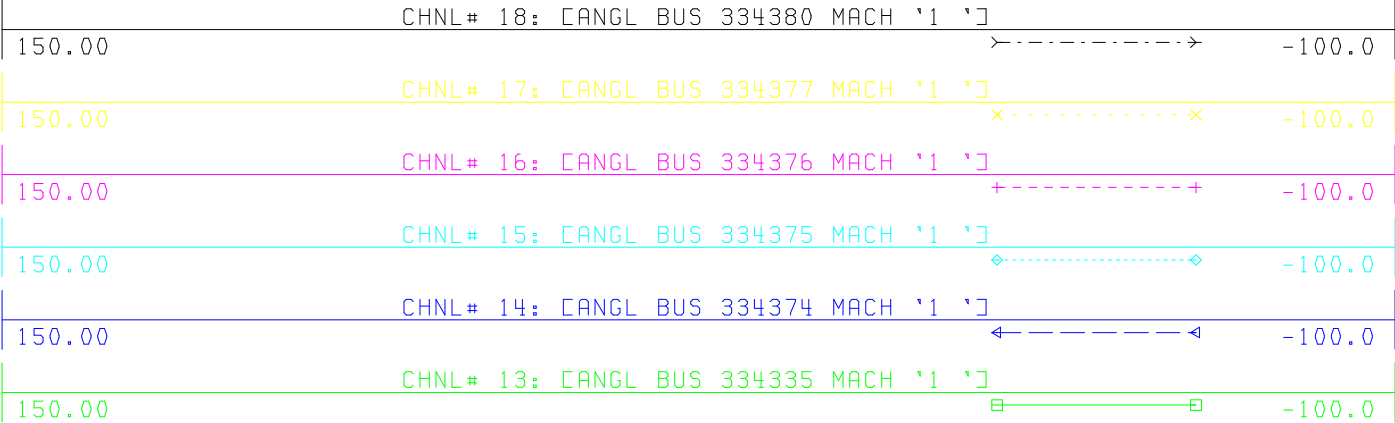


FRI, JUN 13 2008 12:14  
MACHINE ANGLES - 02



LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out



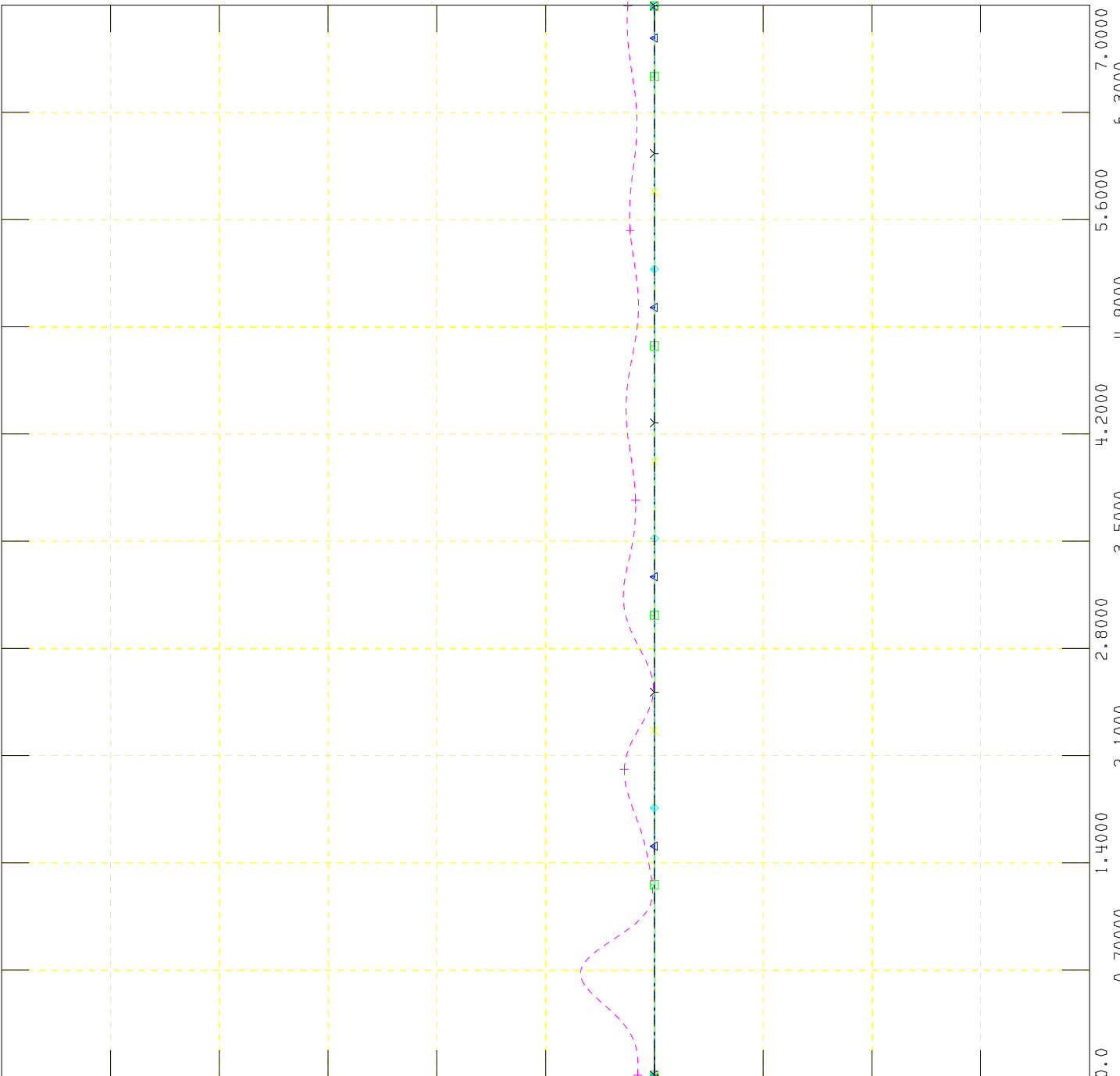
FRI, JUN 13 2008 12:14  
MACHINE ANGLES - 03



LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

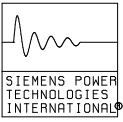
FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



FRI, JUN 13 2008 12:14  
MACHINE ANGLES - 04

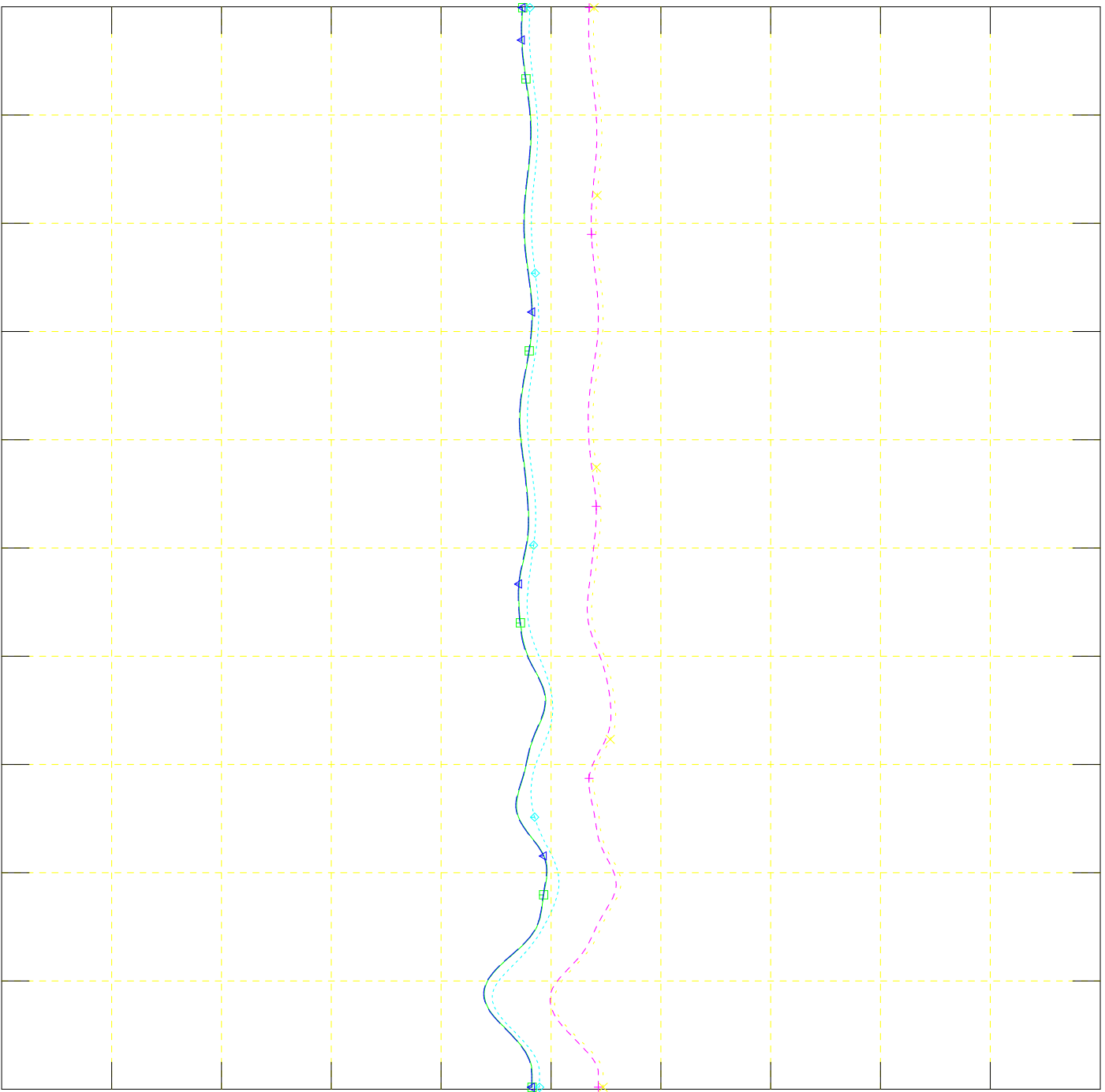
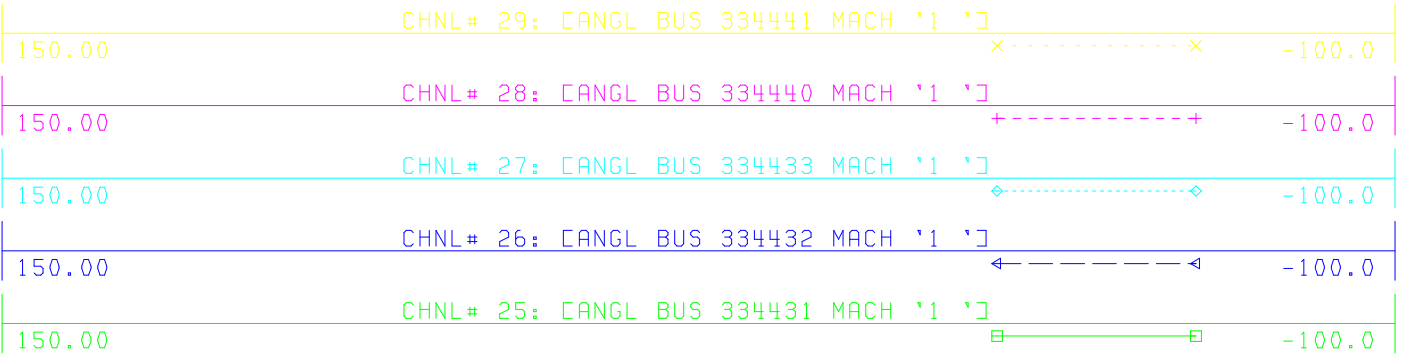




LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

FRI, JUN 13 2008 12:14  
MACHINE ANGLES - 05

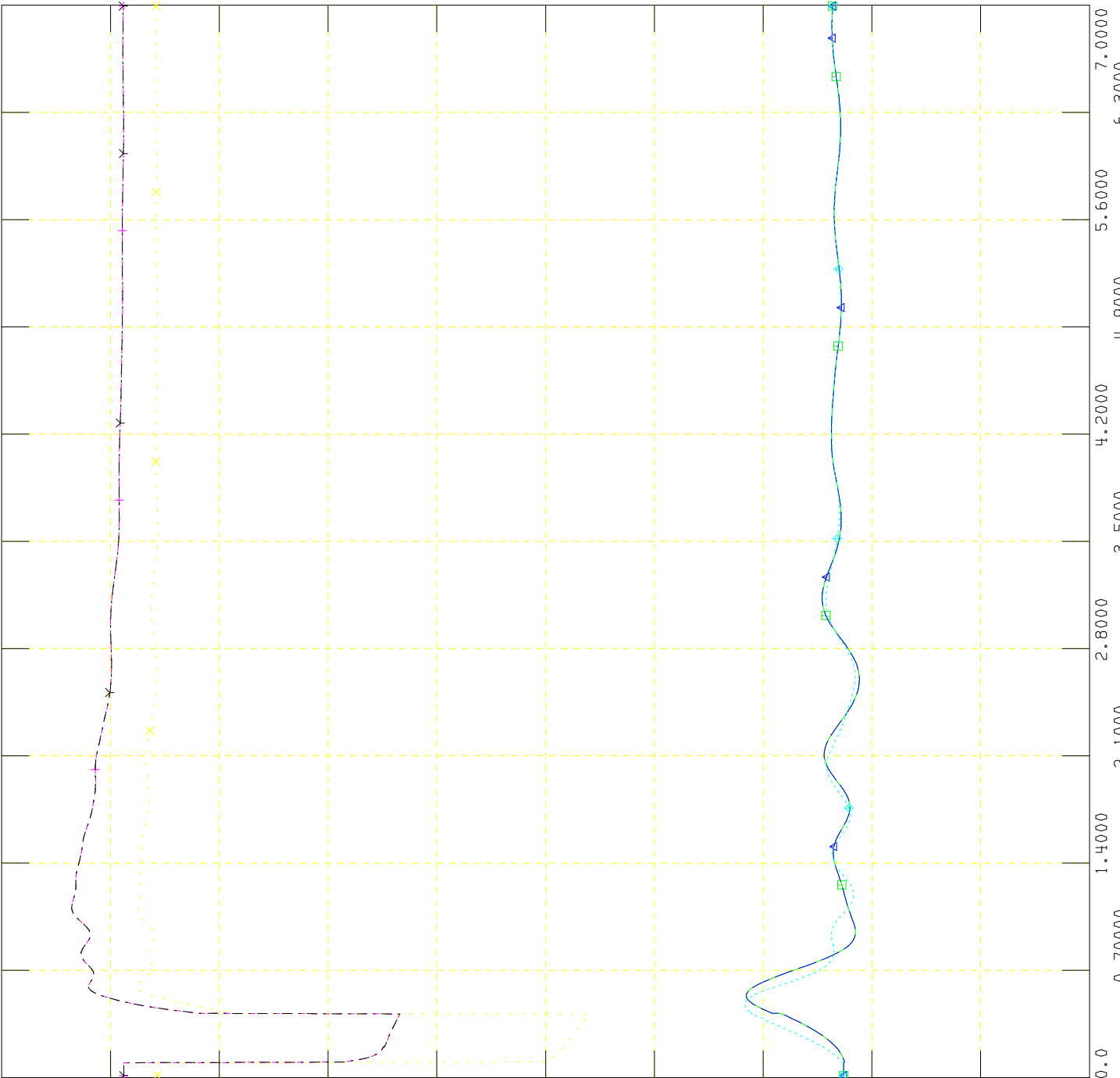




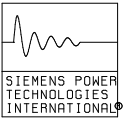
LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



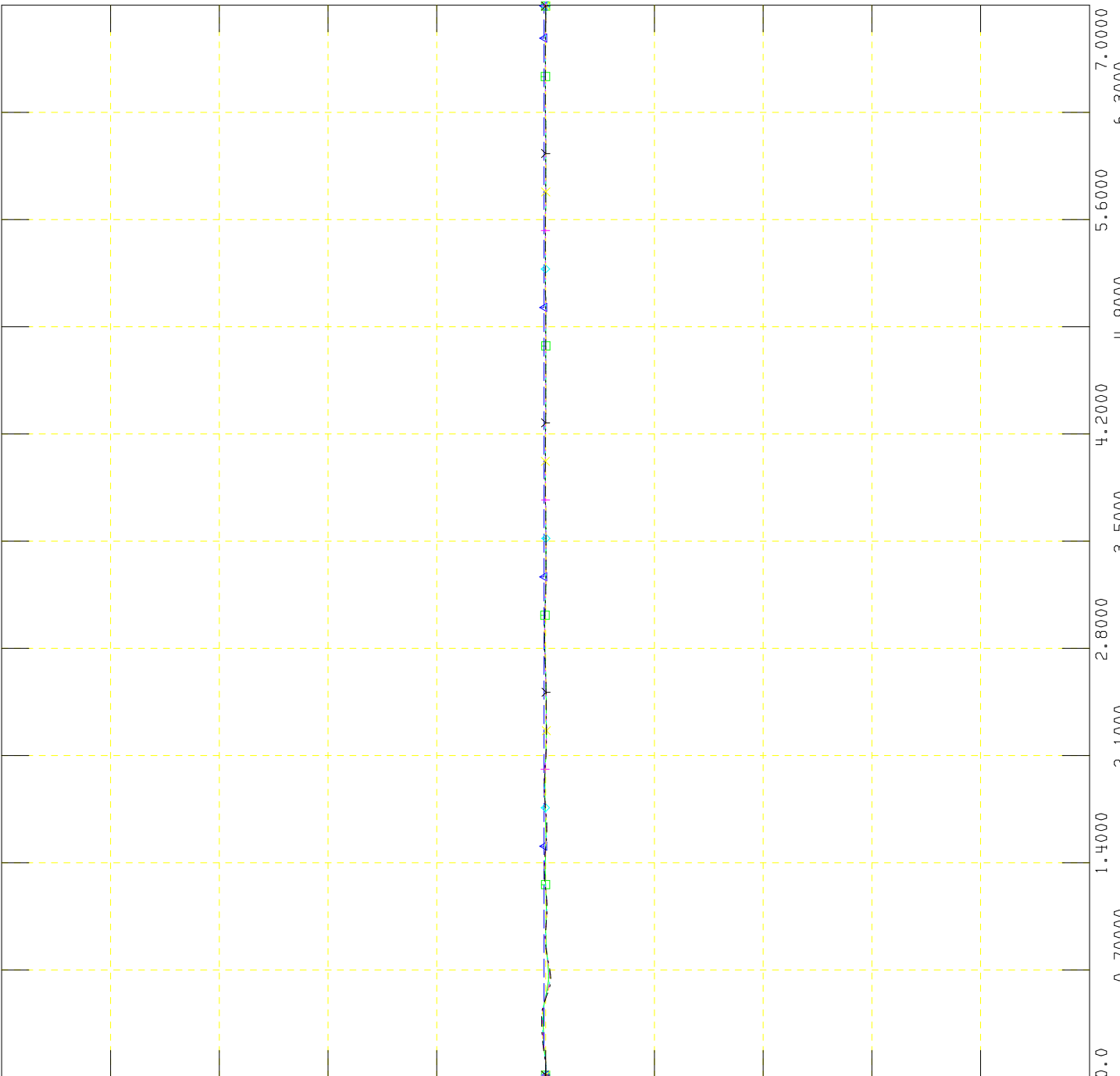
FRI, JUN 13 2008 12:14  
ANG & VOLT - PID-211 GENS



LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

Channel	CFREQ	Channel Name	Value
CHNL# 41	334065	C4LACON	138.00
CHNL# 40	334064	C8LNG 413	138.00
CHNL# 39	334063	C4EVGRN*	138.00
CHNL# 38	334062	C4TEMCO	138.00
CHNL# 37	334061	C4GOREE	138.00
CHNL# 36	334060	C4MT.ZION	138.00



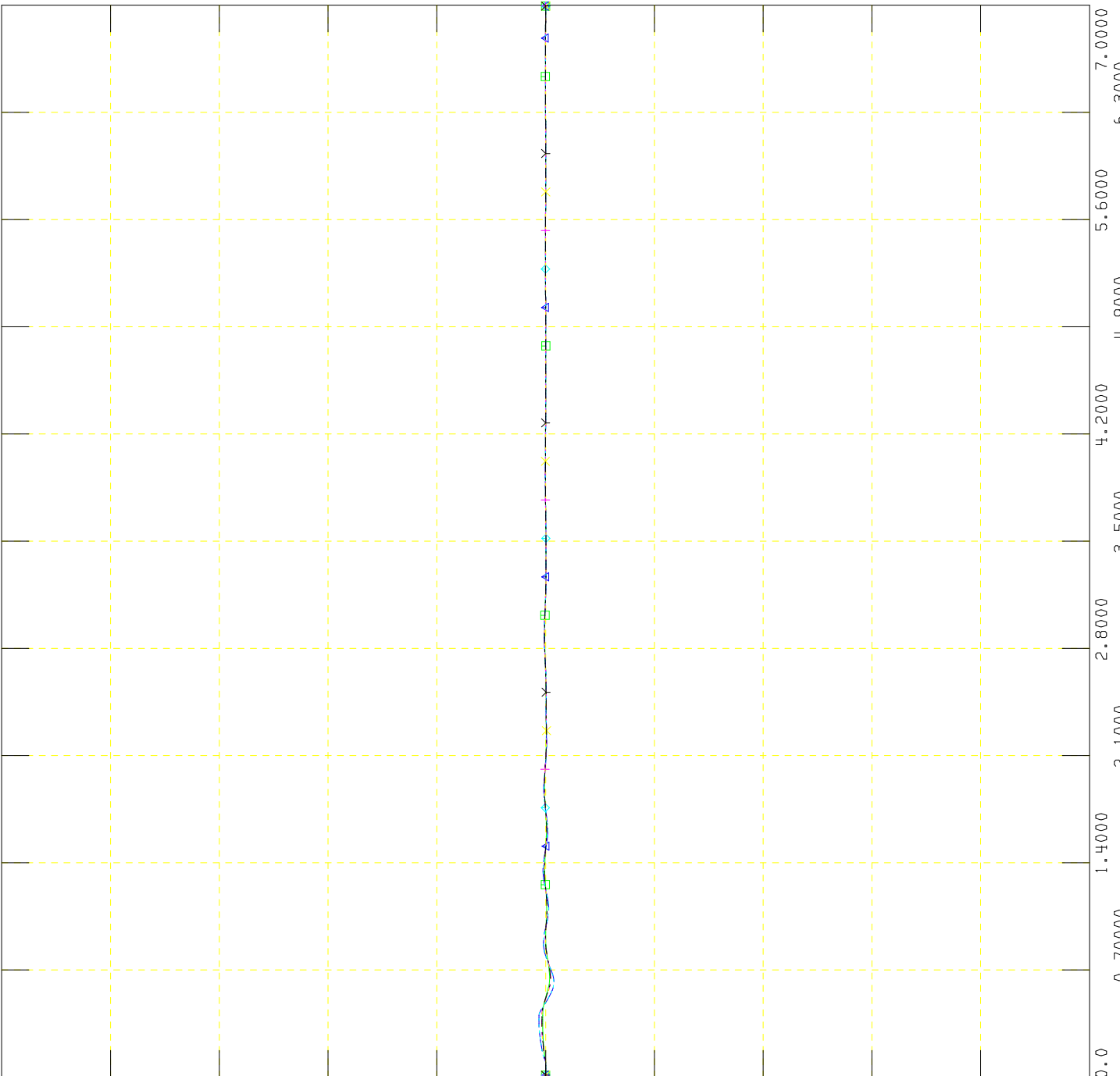
FRI, JUN 13 2008 12:14  
MACHINE FREQUENCIES - 01



LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

Channel	CFREQ	Channel Name	Value
CHNL# 47	334074	C4PANORAM	138.00
CHNL# 46	334073	C4EGYPT	138.00
CHNL# 45	334072	C4LEWIS	138.00
CHNL# 44	334071	C62LEWIS	22.00
CHNL# 43	334070	C61LEWIS	22.00
CHNL# 42	334066	C4GEORGIA	138.00



FRI, JUN 13 2008 12:14  
MACHINE FREQUENCIES - 02

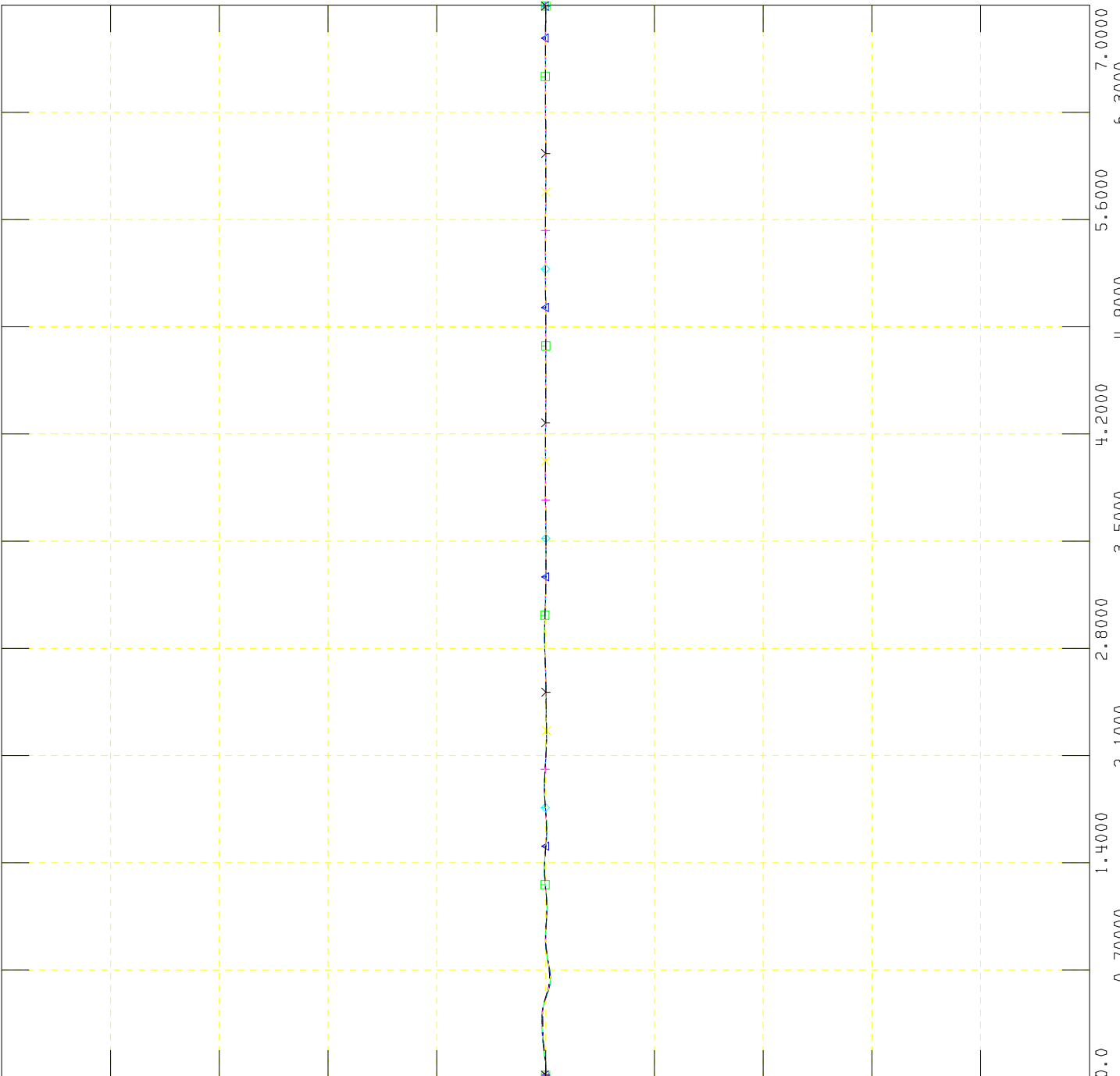
TIME (SECONDS)



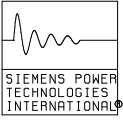
LC  
 LC-RIVTRIN STUCK BRKR CONDS.  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



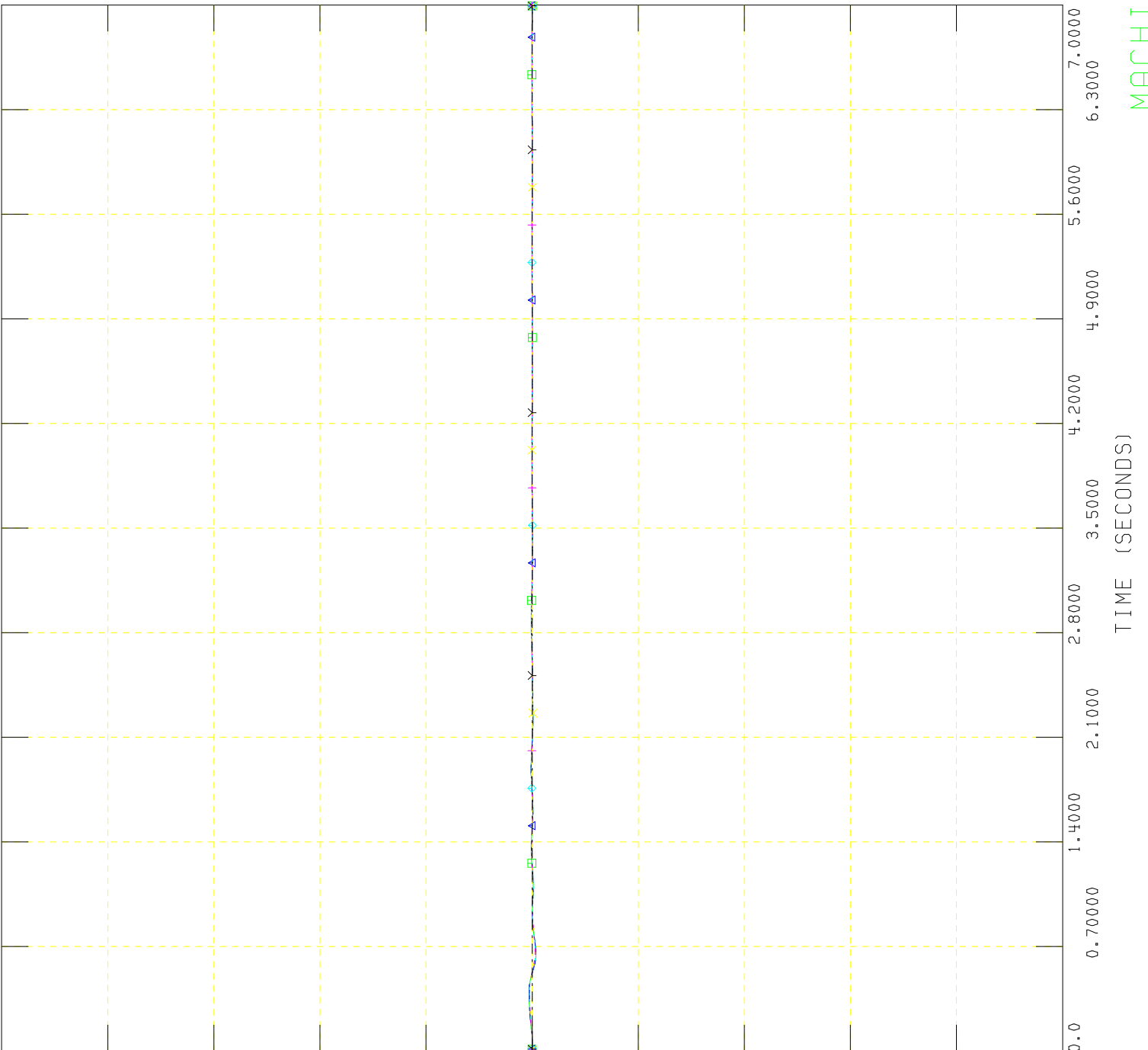
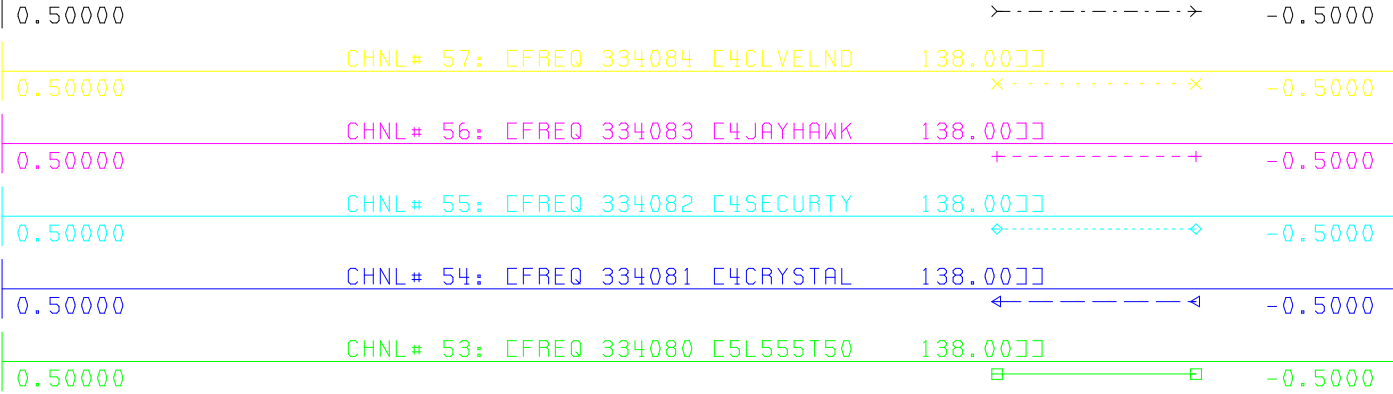
FRI, JUN 13 2008 12:14  
 MACHINE FREQUENCIES - 03

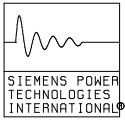


LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



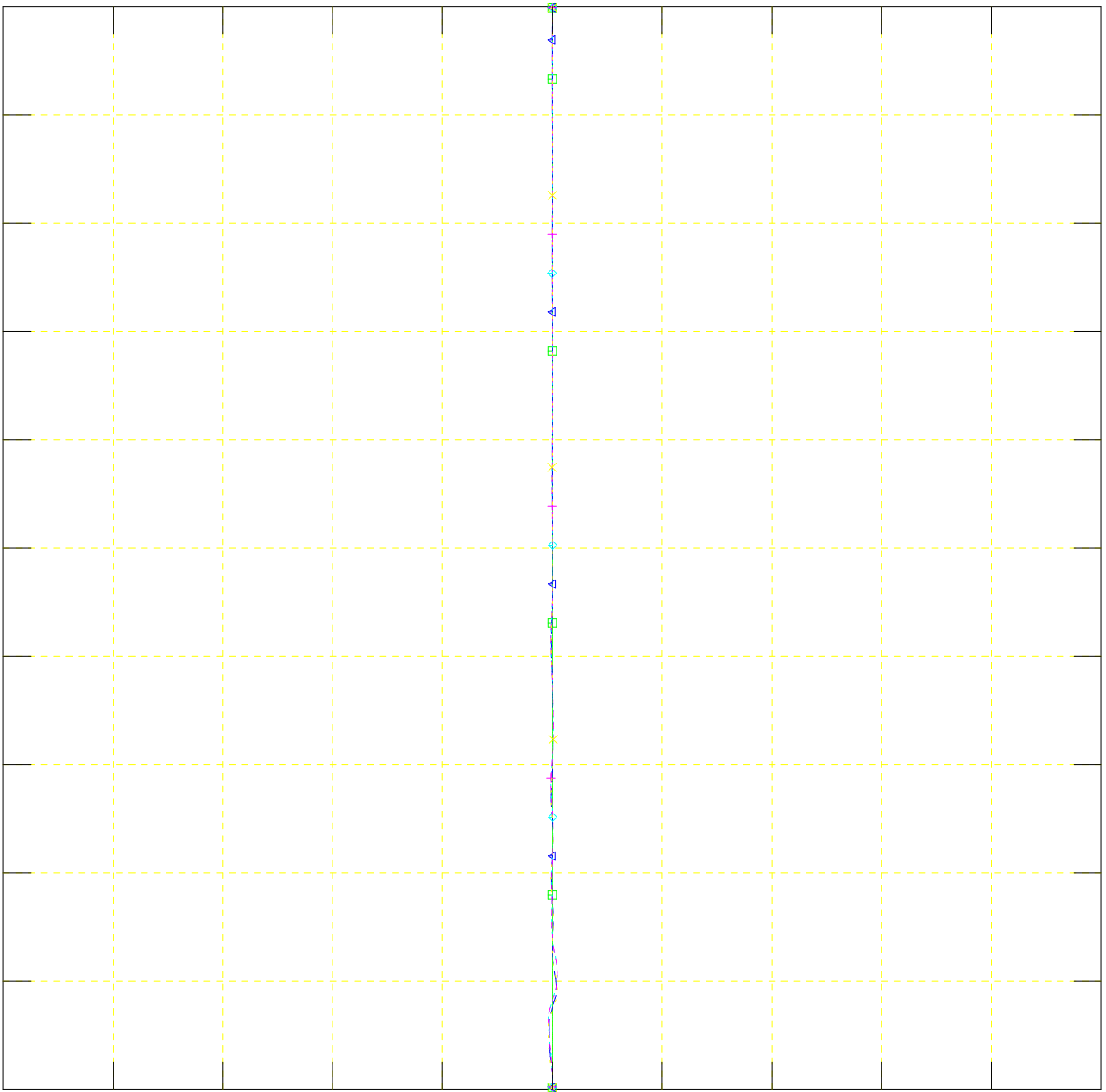


LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

FRI, JUN 13 2008 12:14  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value
CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	99183	18.000
CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	99182	18.000
CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	99181	18.000
CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	334090	138.00
CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	334086	230.00

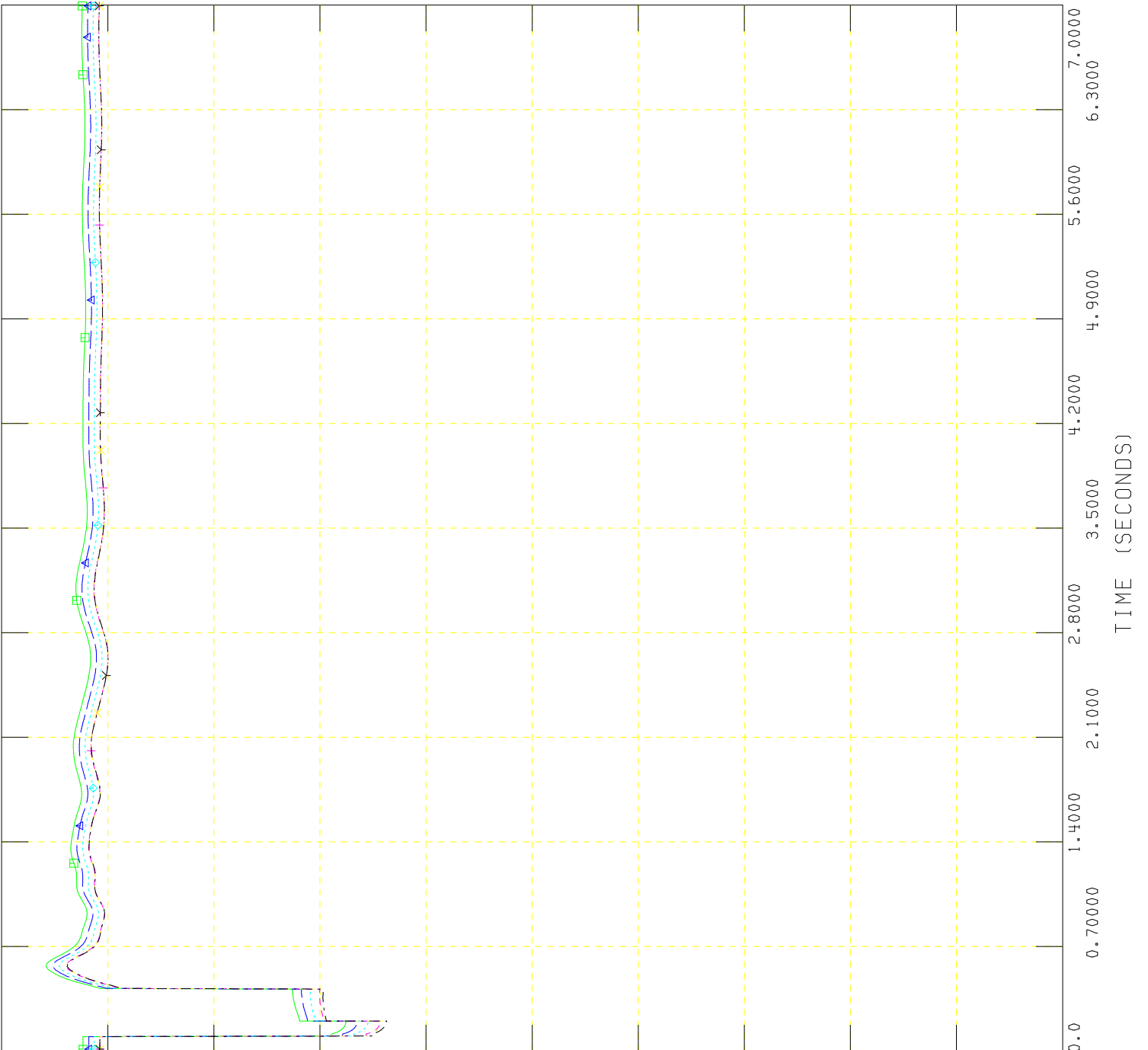




LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

Channel	Label	Value
CHNL# 69	[VOLT 334055 [4RIVTRIN 138.00]]	1.1000
CHNL# 68	[VOLT 334054 [4WALKER 138.00]]	1.1000
CHNL# 67	[VOLT 334053 [4CINCINT 138.00]]	1.1000
CHNL# 66	[VOLT 334052 [4CEDAR 138.00]]	1.1000
CHNL# 65	[VOLT 334051 [4BISHOP 138.00]]	1.1000
CHNL# 64	[VOLT 334050 [4PEE DEE 138.00]]	1.1000



FRI, JUN 13 2008 12:14  
BUS VOLTAGES - 01

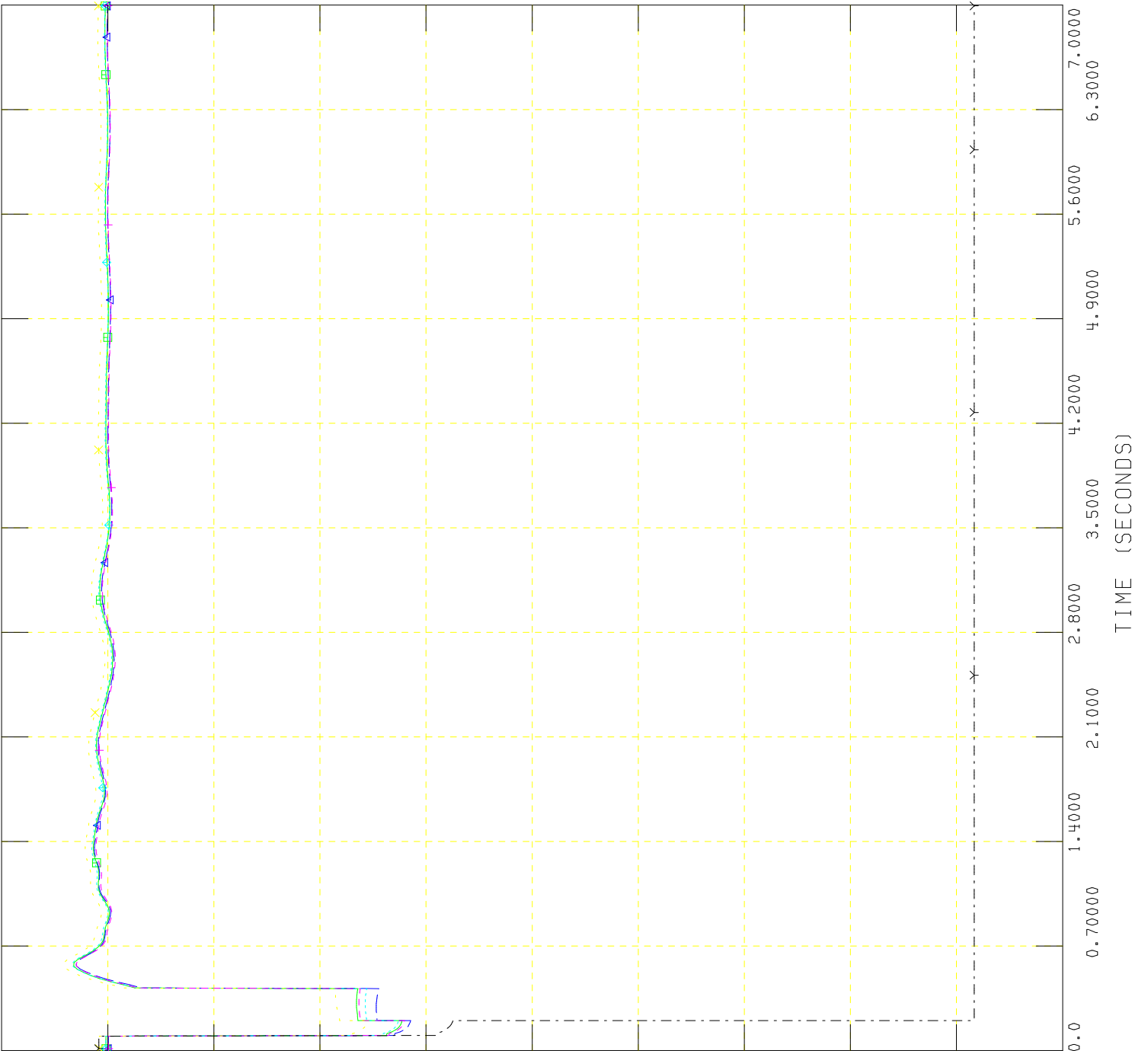




LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



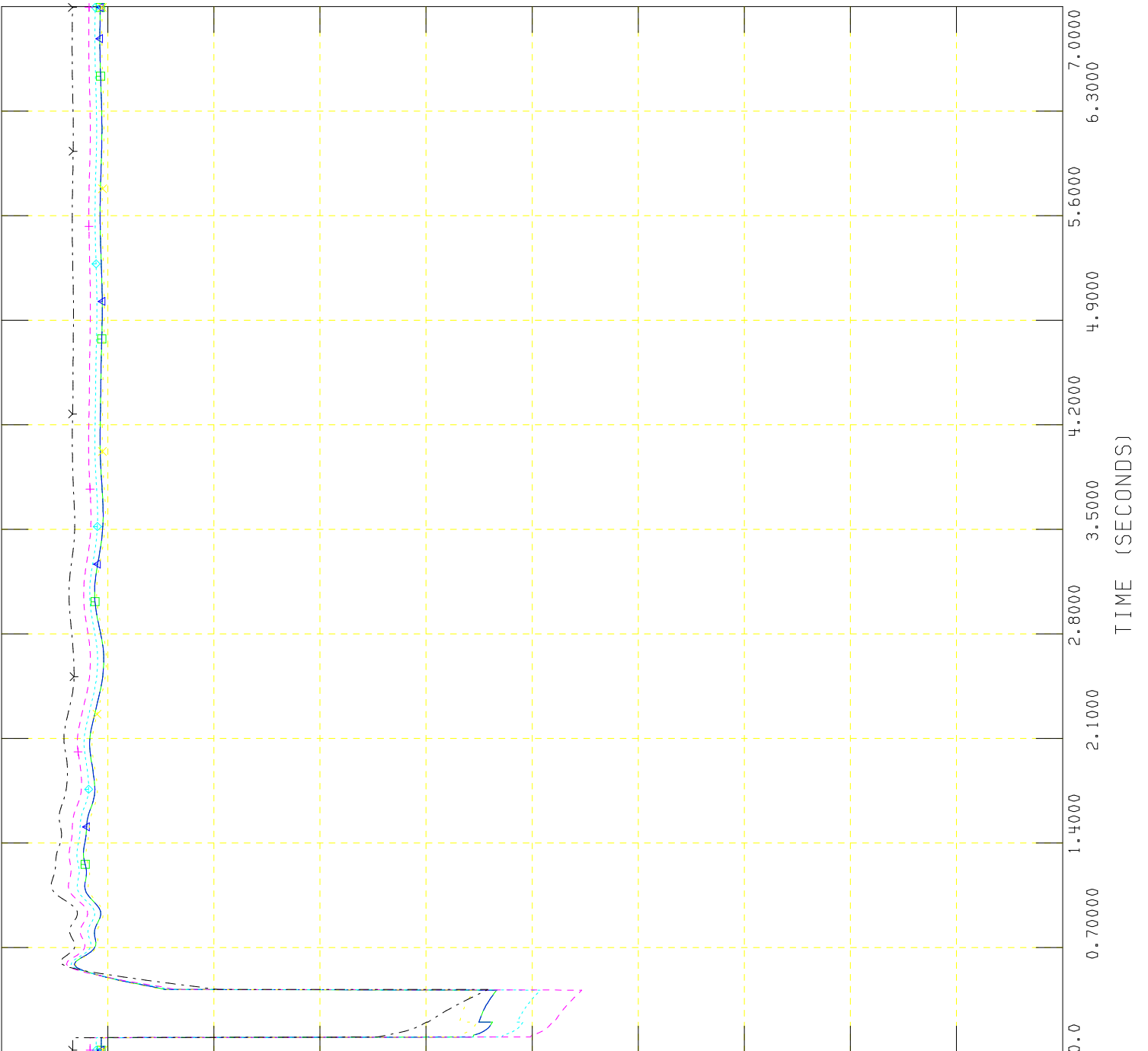
FRI, JUN 13 2008 12:14  
BUS VOLTAGES - 02



LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



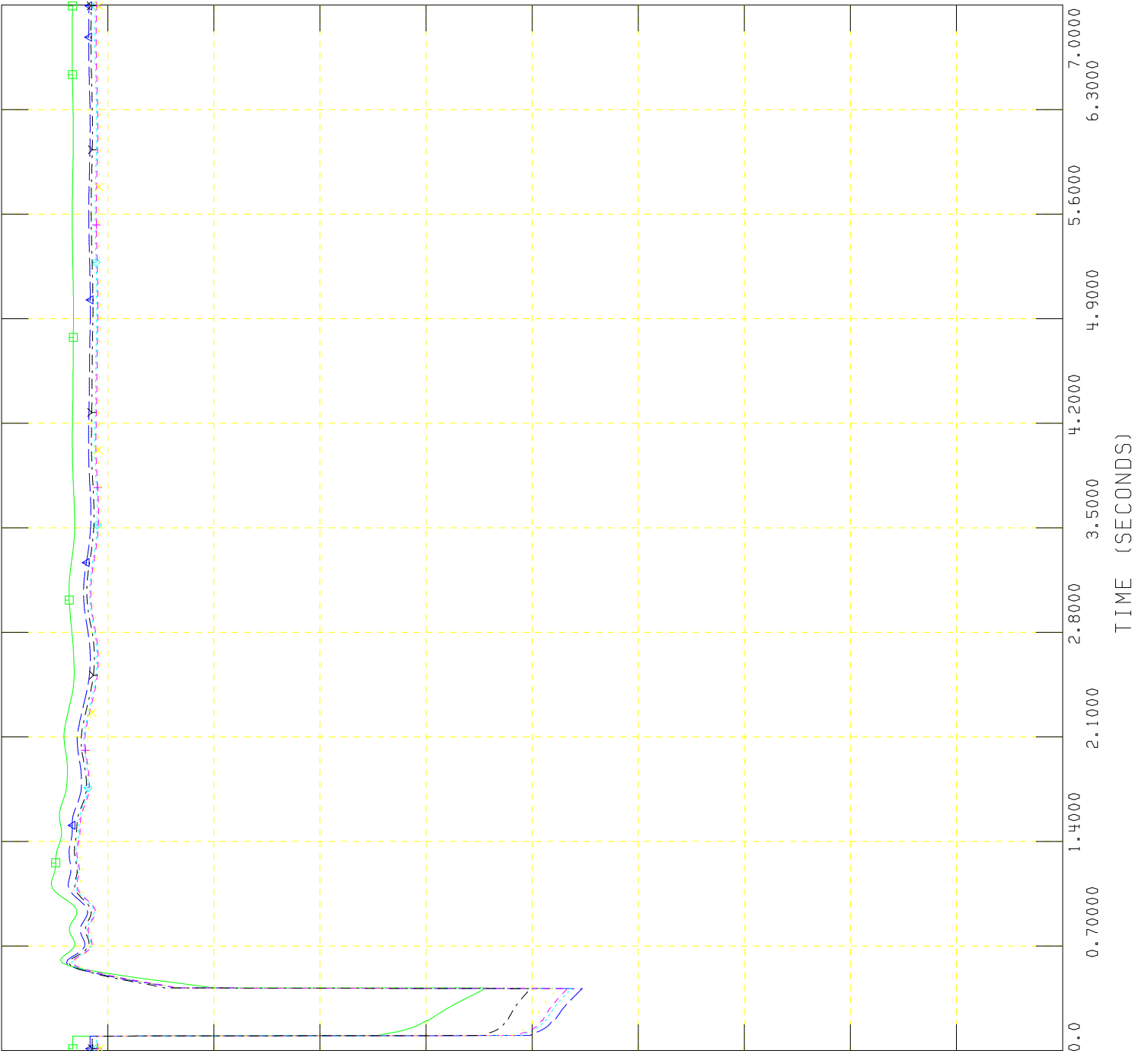
FRI, JUN 13 2008 12:14  
BUS VOLTAGES - 03



LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



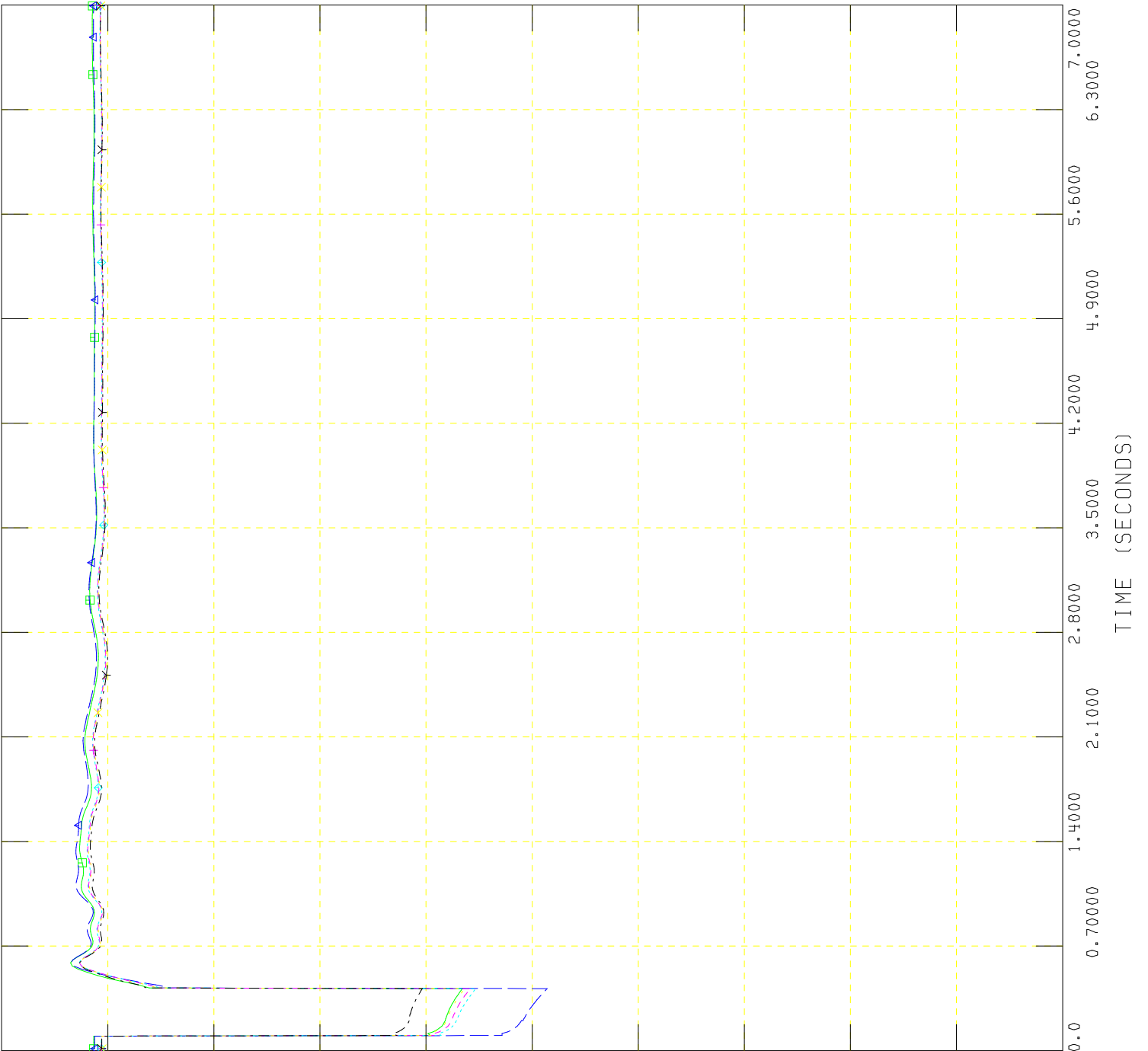
FRI, JUN 13 2008 12:14  
BUS VOLTAGES - 04



LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



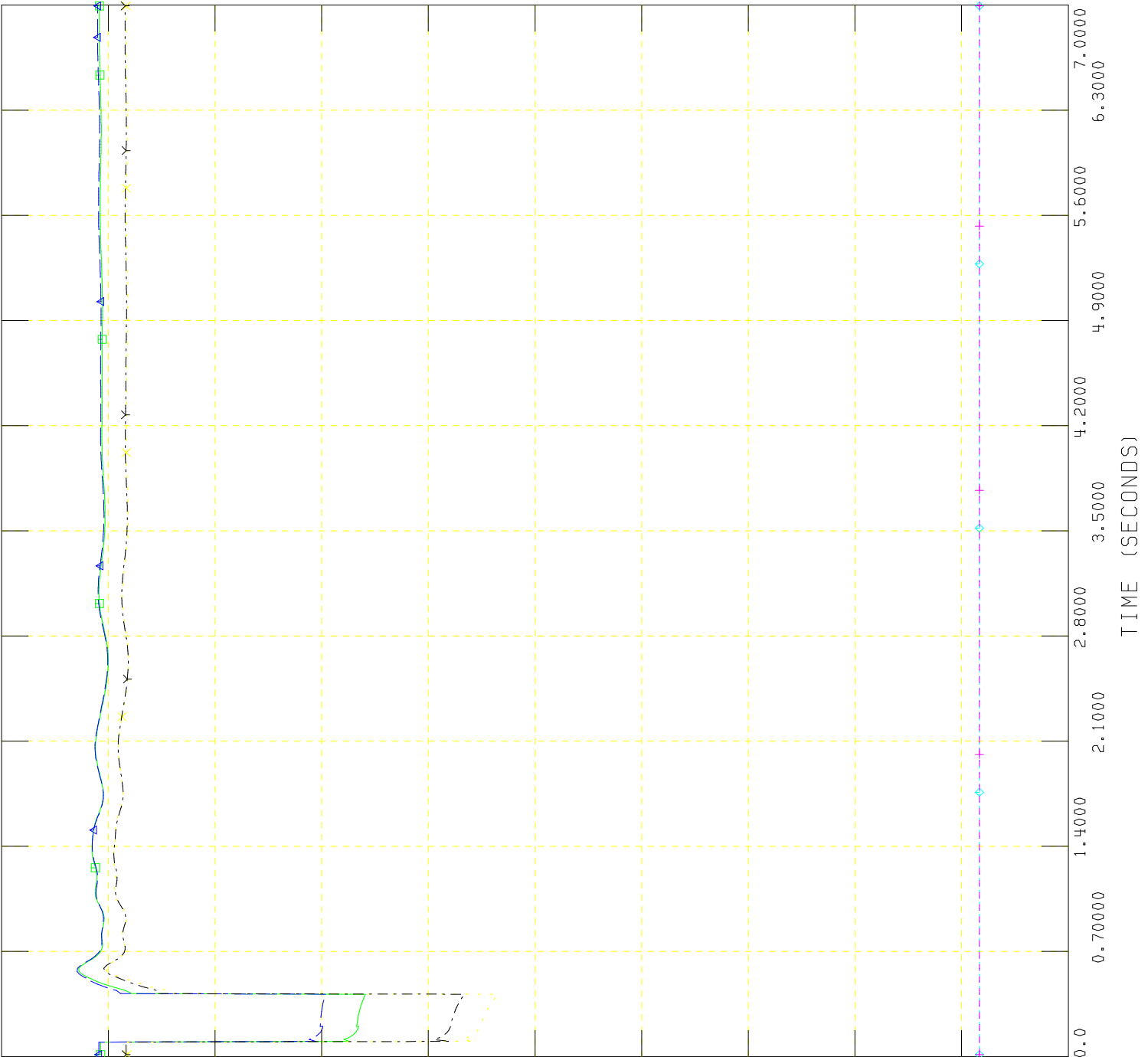
FRI, JUN 13 2008 12:14  
BUS VOLTAGES - 05



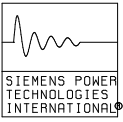
LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

Channel	Label	Value
CHNL# 99	[VOLT 334091 [4GOSLIN 138.00]]	138.00
CHNL# 98	[VOLT 334090 [4ALDEN 138.00]]	138.00
CHNL# 97	[VOLT 334086 [6CONROE 230.00]]	230.00
CHNL# 96	[VOLT 334085 [6LEWISCREEK 230.00]]	230.00
CHNL# 95	[VOLT 334084 [4CLVELND 138.00]]	138.00
CHNL# 94	[VOLT 334083 [4JAYHAWK 138.00]]	138.00



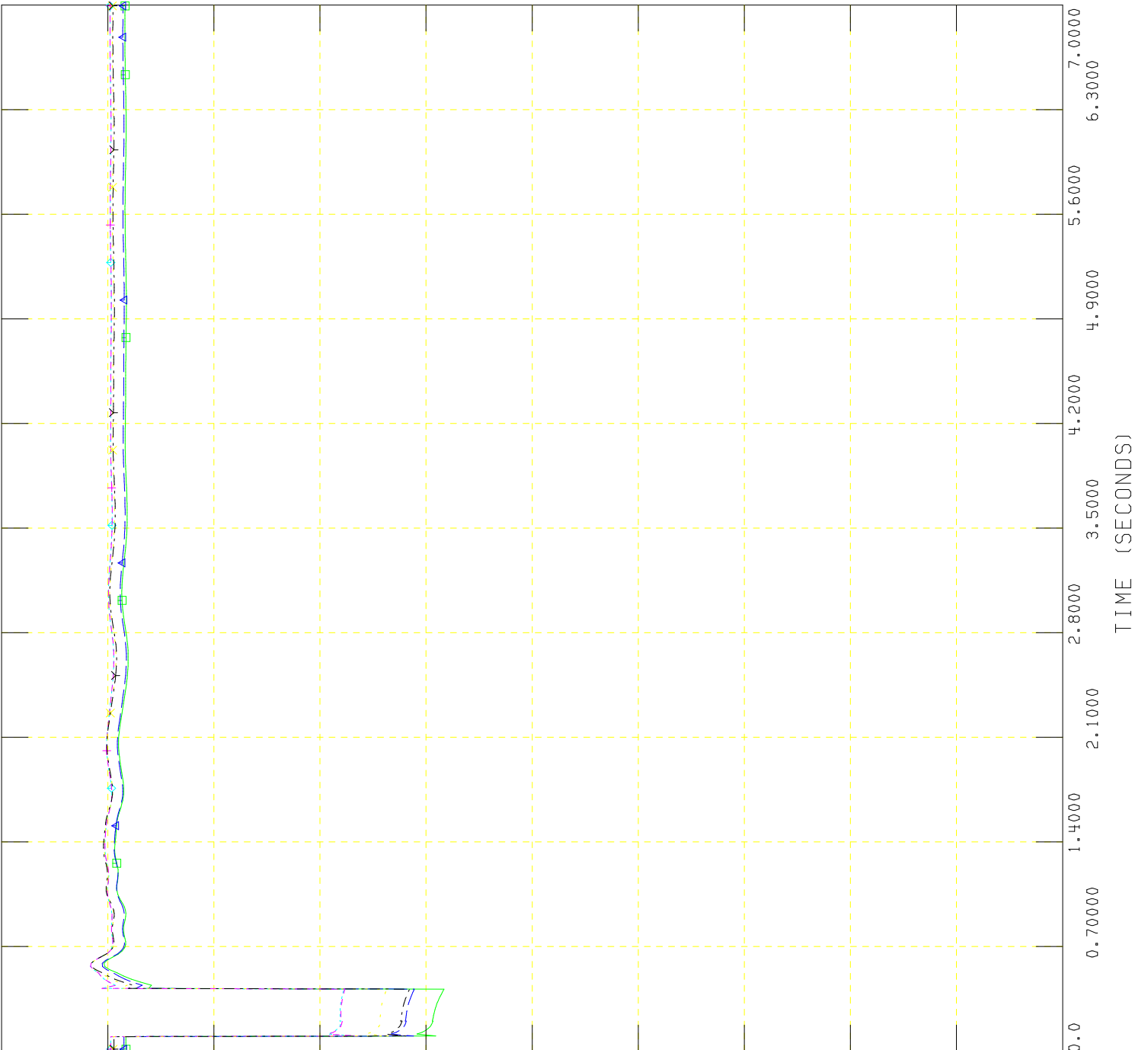
FRI, JUN 13 2008 12:14  
BUS VOLTAGES - 06



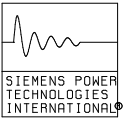
LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

Channel	Label	Value
1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



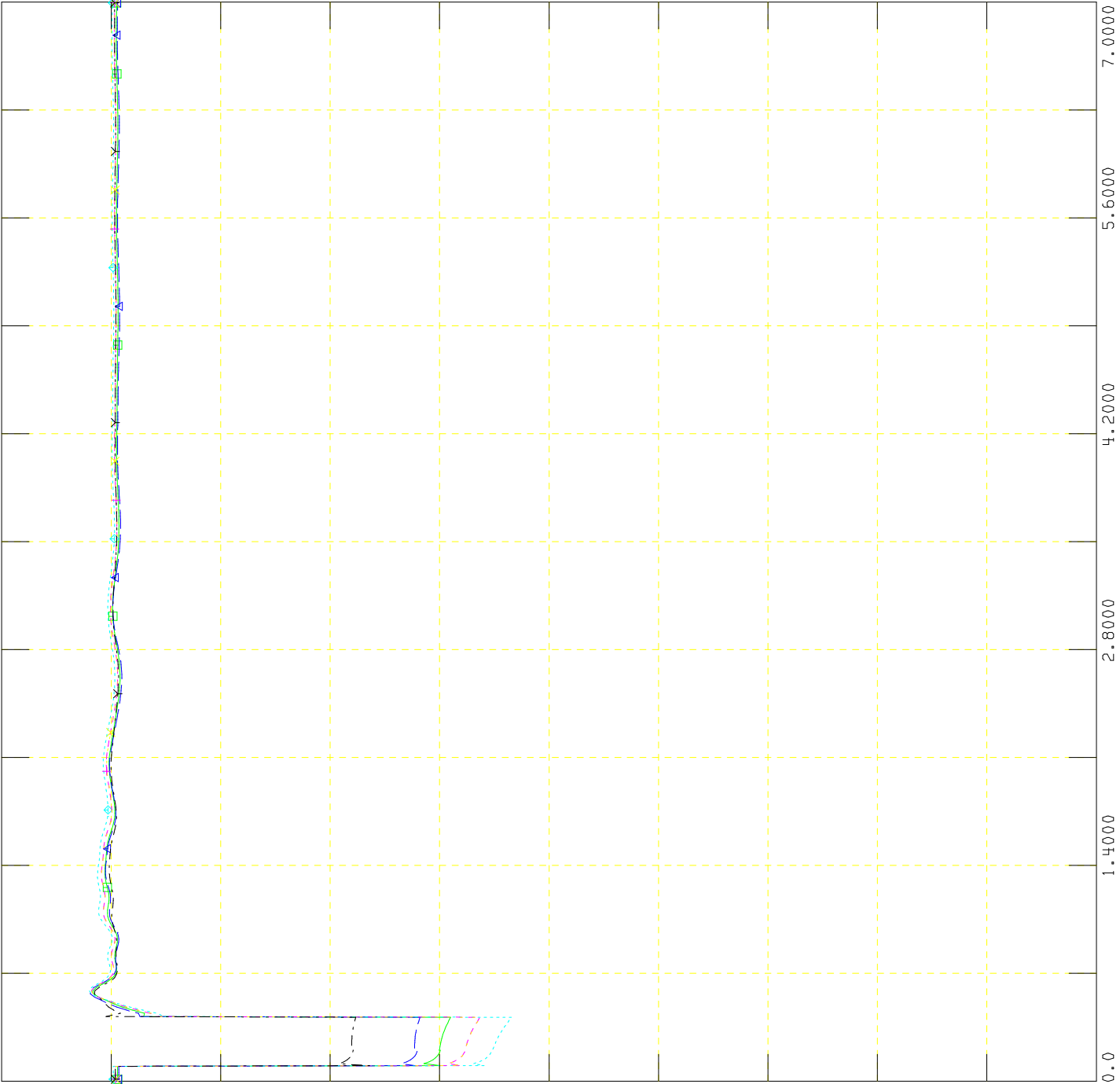
FRI, JUN 13 2008 12:14  
BUS VOLTAGES - 07



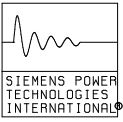
LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



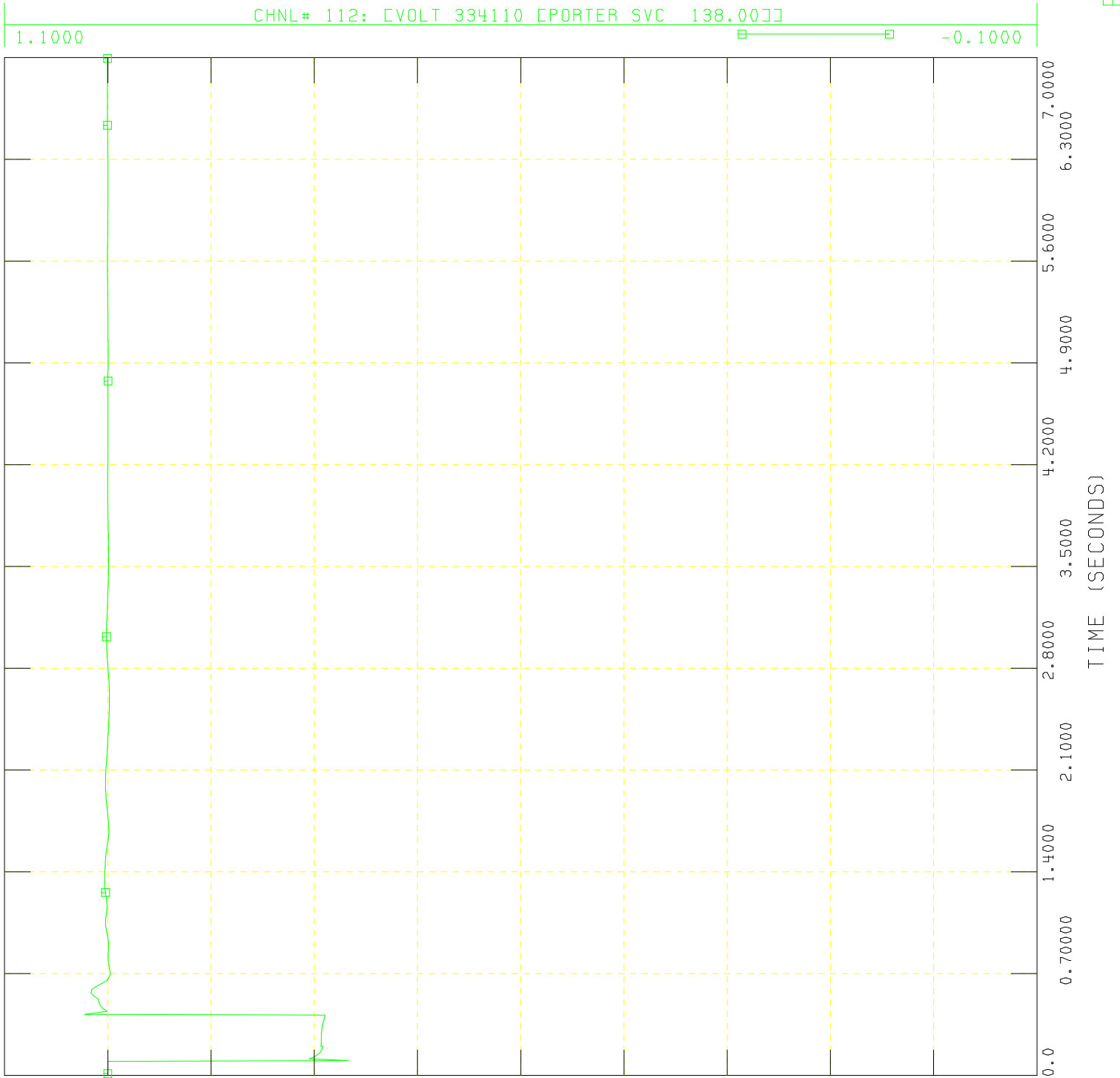
FRI, JUN 13 2008 12:14  
BUS VOLTAGES - 08



LC  
LC-RIVTRIN STUCK BRKR CONDS.  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Rivtrin-5a.out

FRI, JUN 13 2008 12:14  
BUS VOLTAGES - 09





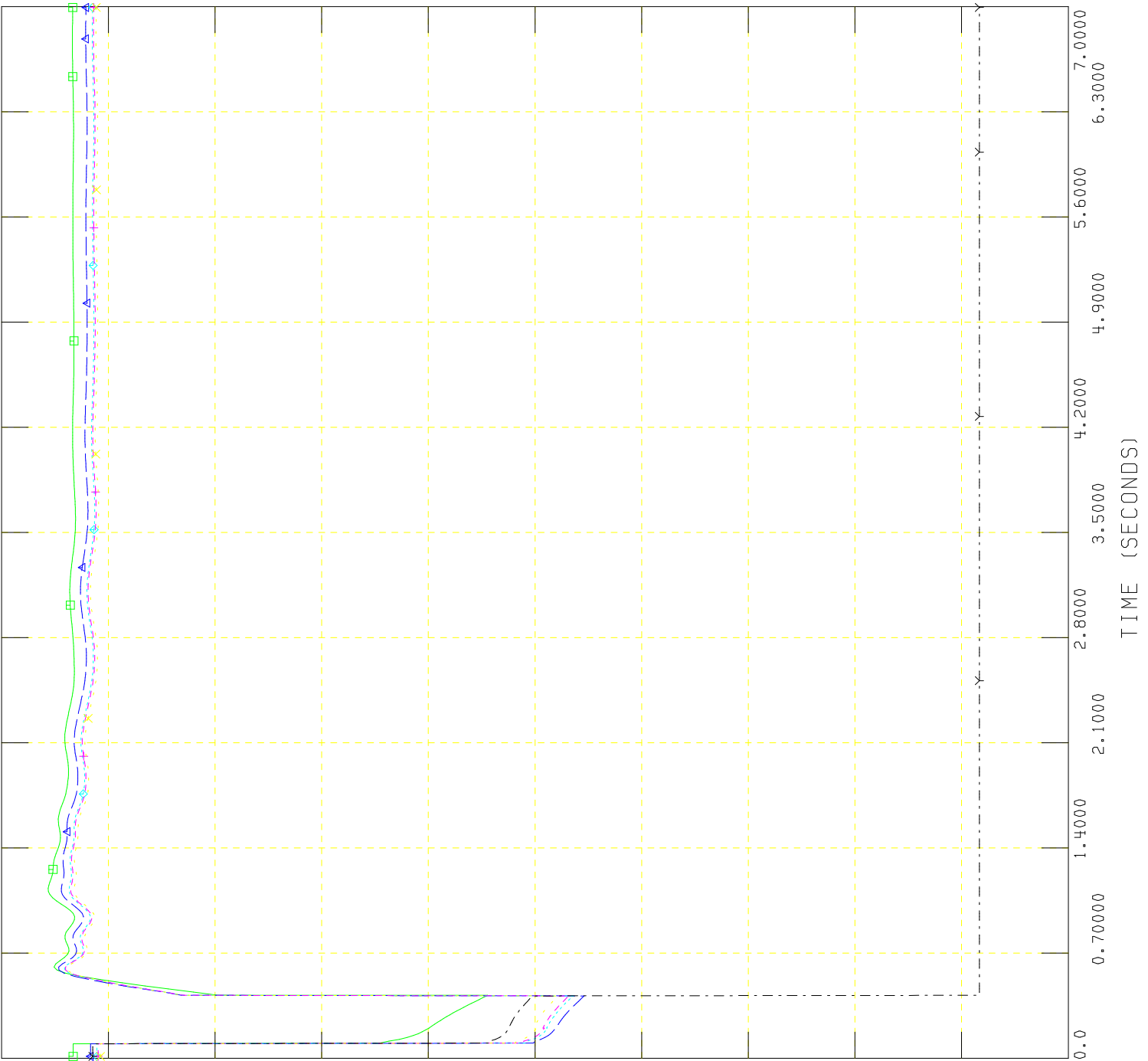
**FAULT 6a**  
**Lewis Creek – Huntsville 138 kV**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**



LC  
LC-HUNTSVILLE STUCK BRKR CONDS  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-Huntsville-6a.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



FRI, JUN 13 2008 12:20  
BUS VOLTAGES - 04

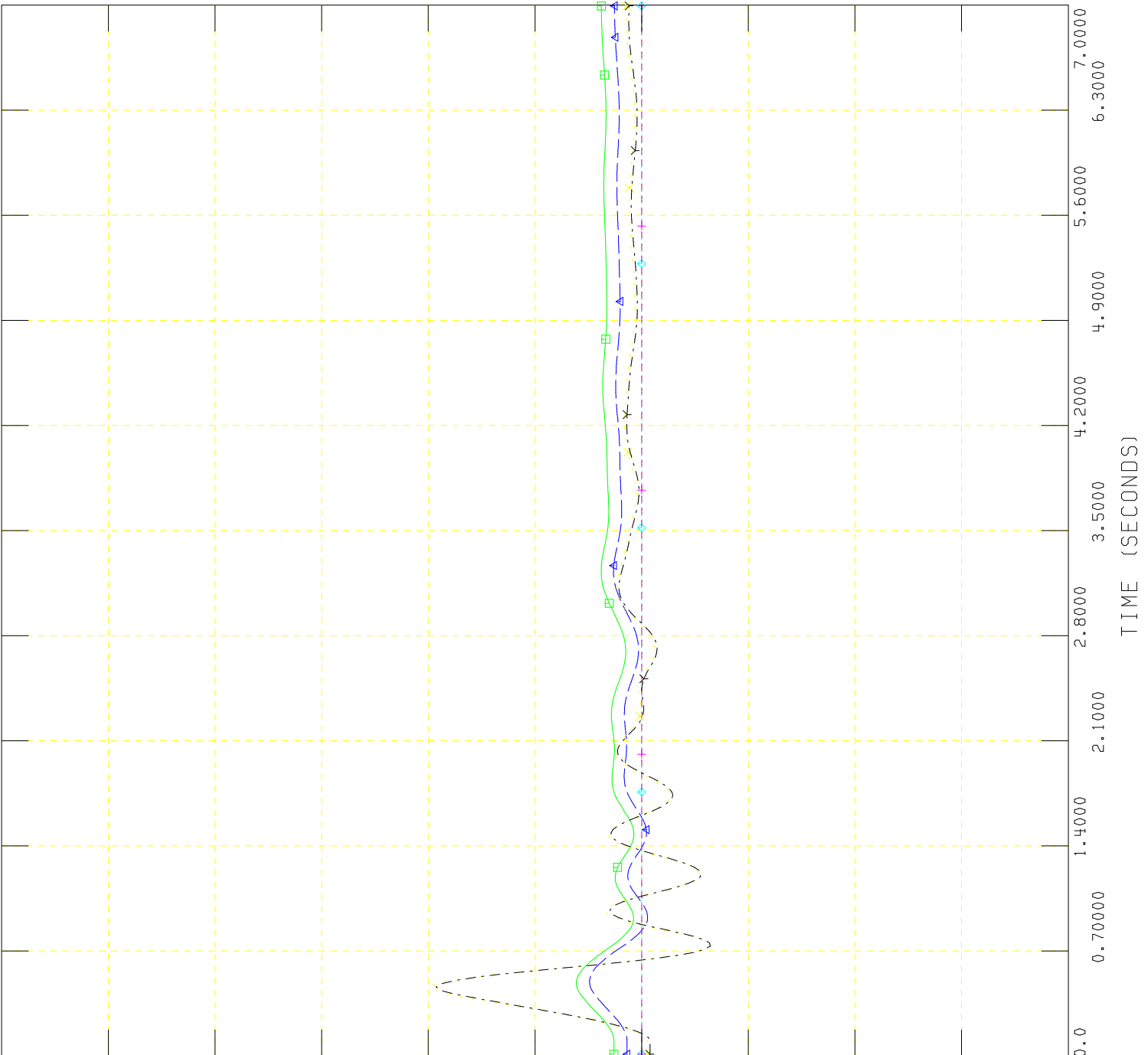
**FAULT 7a**  
**Lewis Creek – Peach Creek 138 kV**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**



LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

Channel	Label	Value
6	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



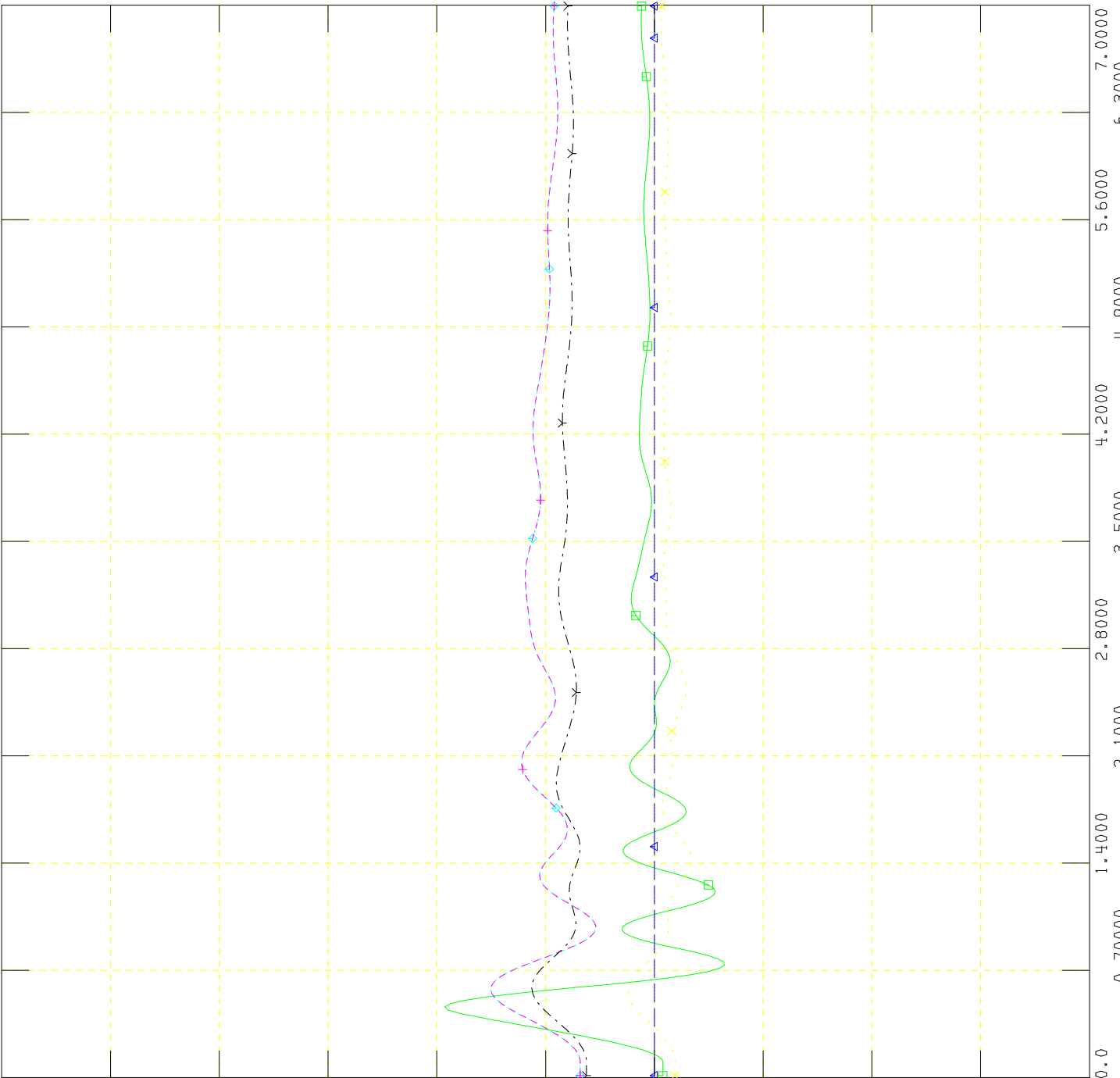
FRI, JUN 13 2008 12:25  
MACHINE ANGLES - 01



LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

Channel	Label	Value
150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

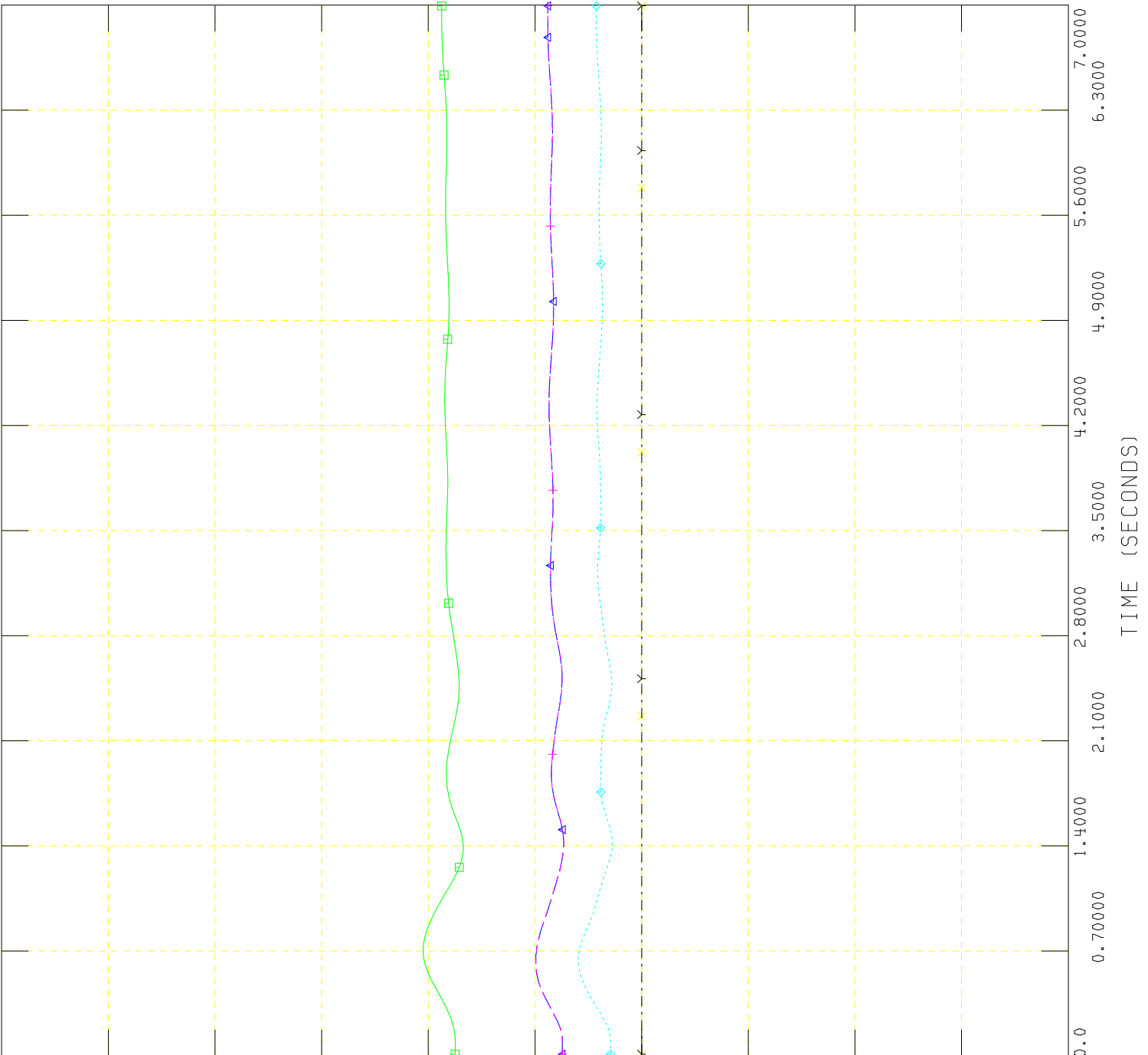
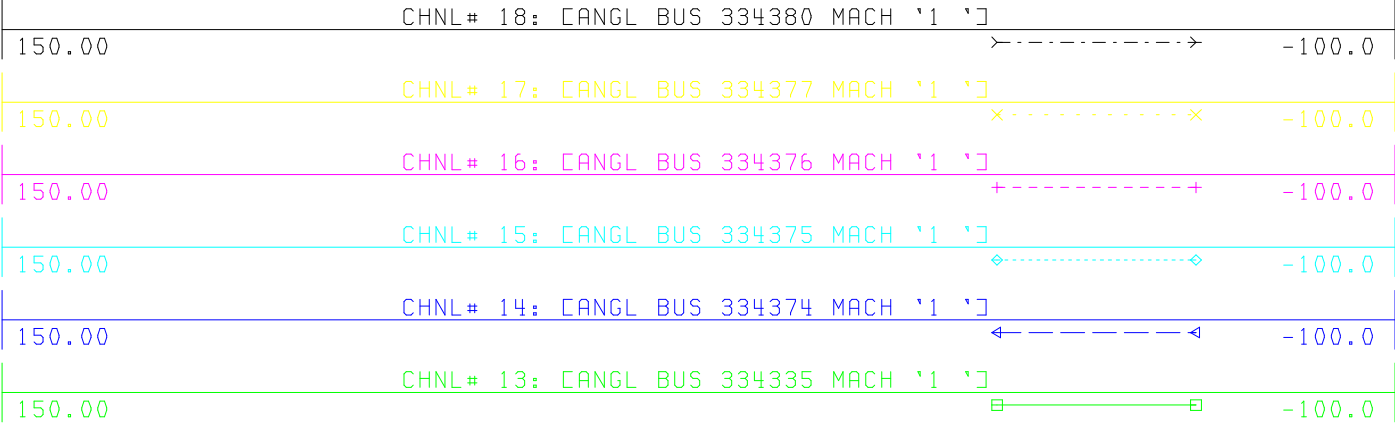


FRI, JUN 13 2008 12:25  
MACHINE ANGLES - 02

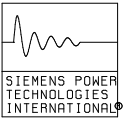


LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out



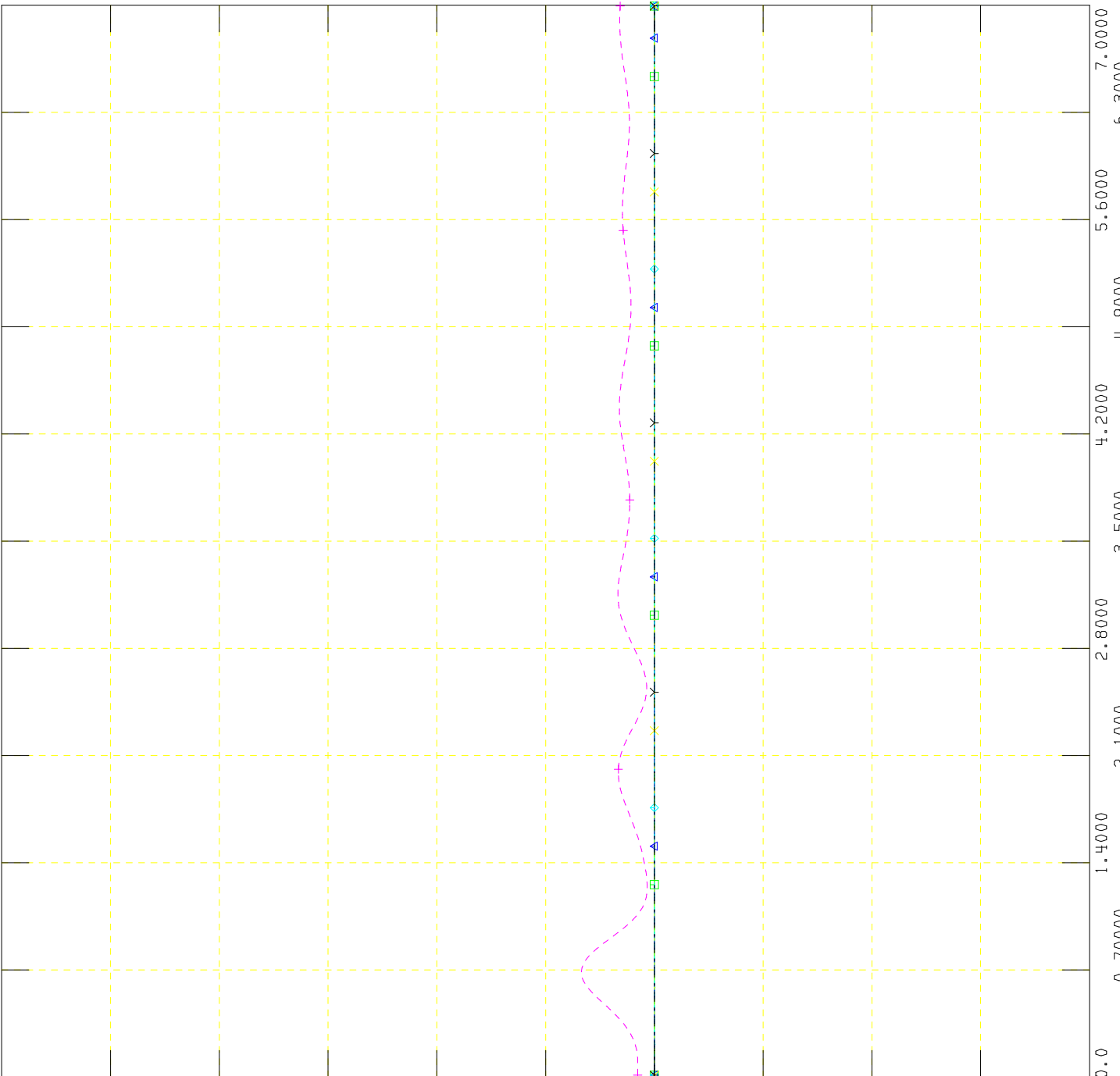
FRI, JUN 13 2008 12:25  
MACHINE ANGLES - 03



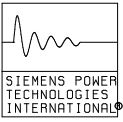
LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



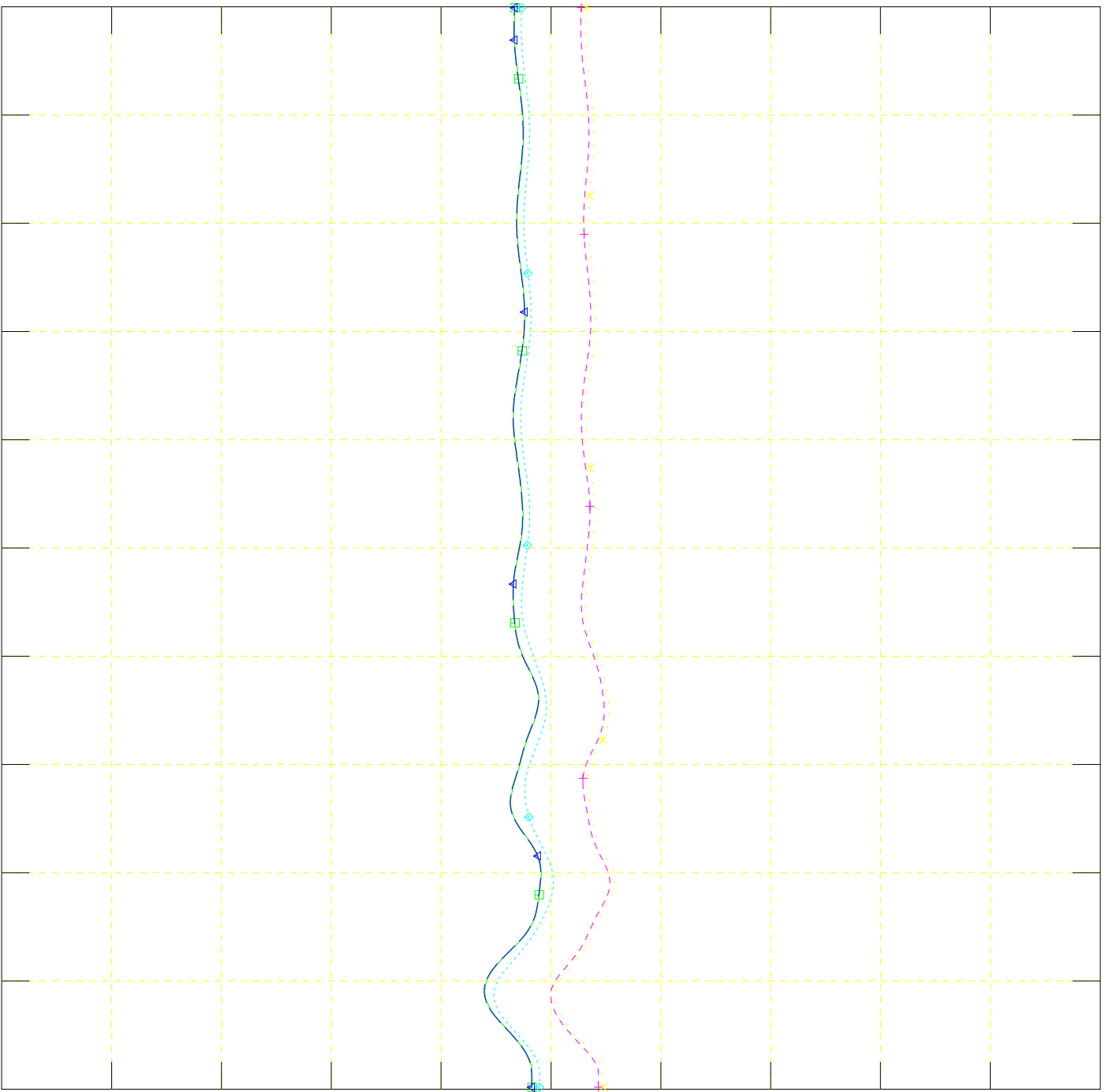
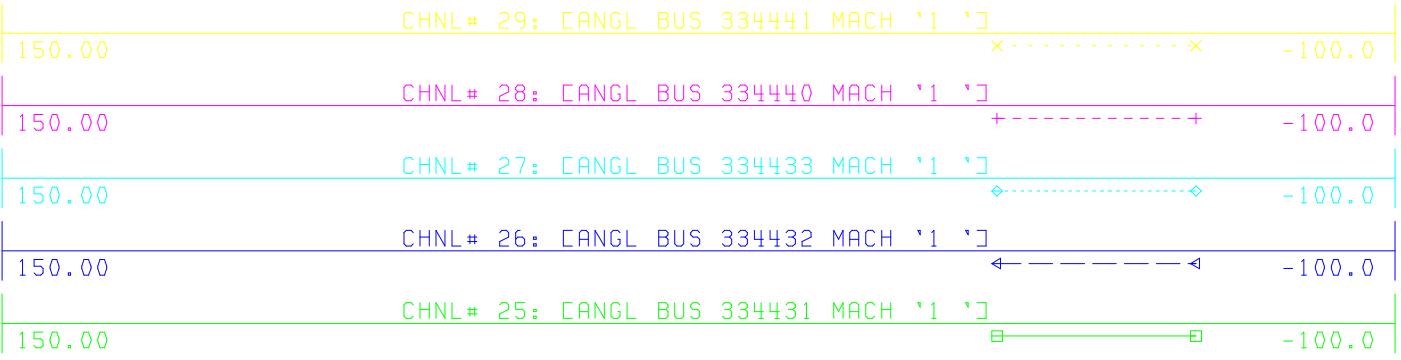
FRI, JUN 13 2008 12:25  
MACHINE ANGLES - 04



LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

FRI, JUN 13 2008 12:25  
MACHINE ANGLES - 05



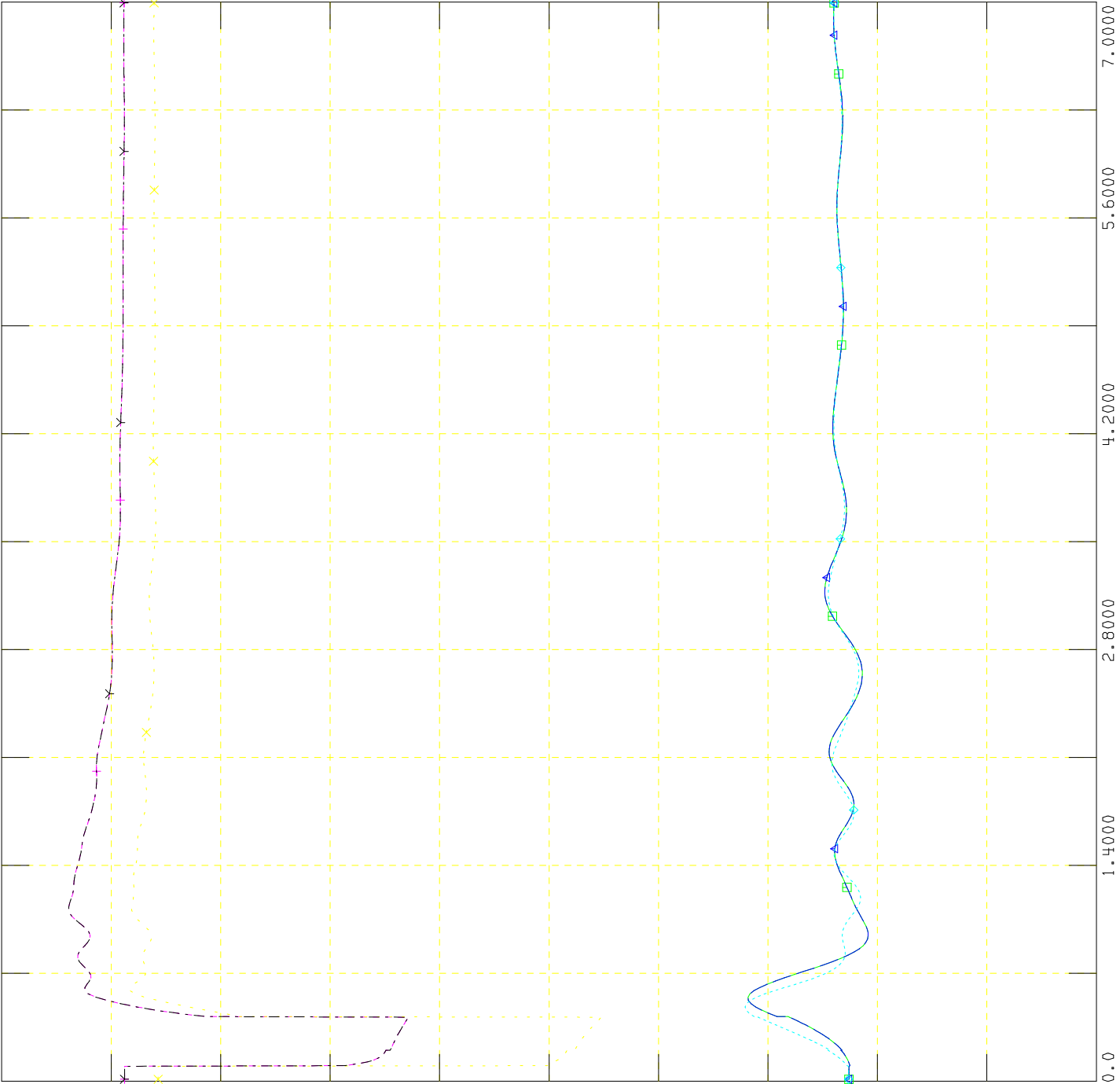




LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



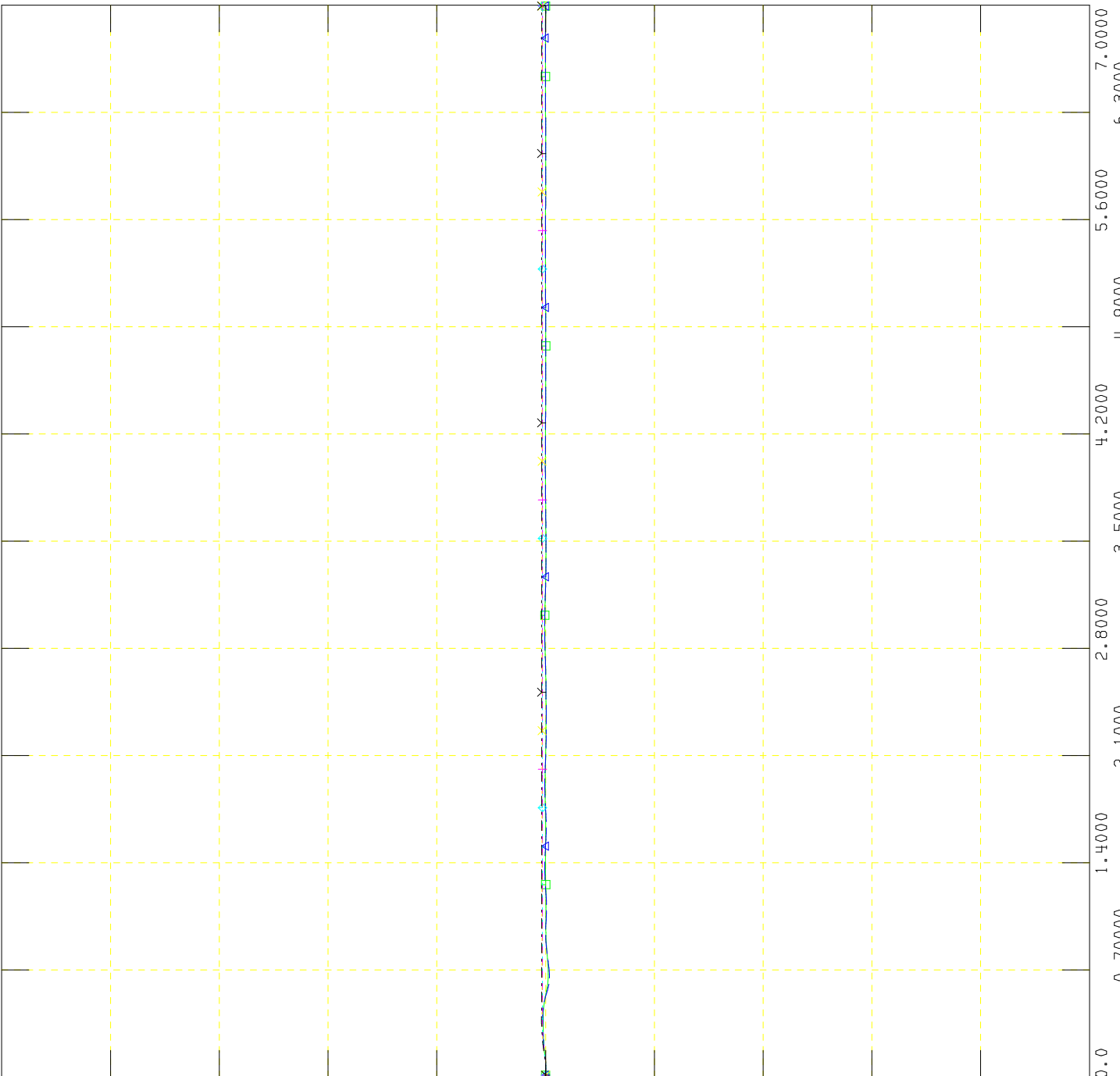
FRI, JUN 13 2008 12:25  
ANG & VOLT - PID-211 GENS



LC  
 LC-PEACHCRK STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

0.50000	CHNL# 41: [FREQ 334065 [4LACON 138.00]]	-0.50000
0.50000	CHNL# 40: [FREQ 334064 [8LNG 413 138.00]]	-0.50000
0.50000	CHNL# 39: [FREQ 334063 [4EVGRN* 138.00]]	-0.50000
0.50000	CHNL# 38: [FREQ 334062 [4TEMCO 138.00]]	-0.50000
0.50000	CHNL# 37: [FREQ 334061 [4GOREE 138.00]]	-0.50000
0.50000	CHNL# 36: [FREQ 334060 [4MT.ZION 138.00]]	-0.50000



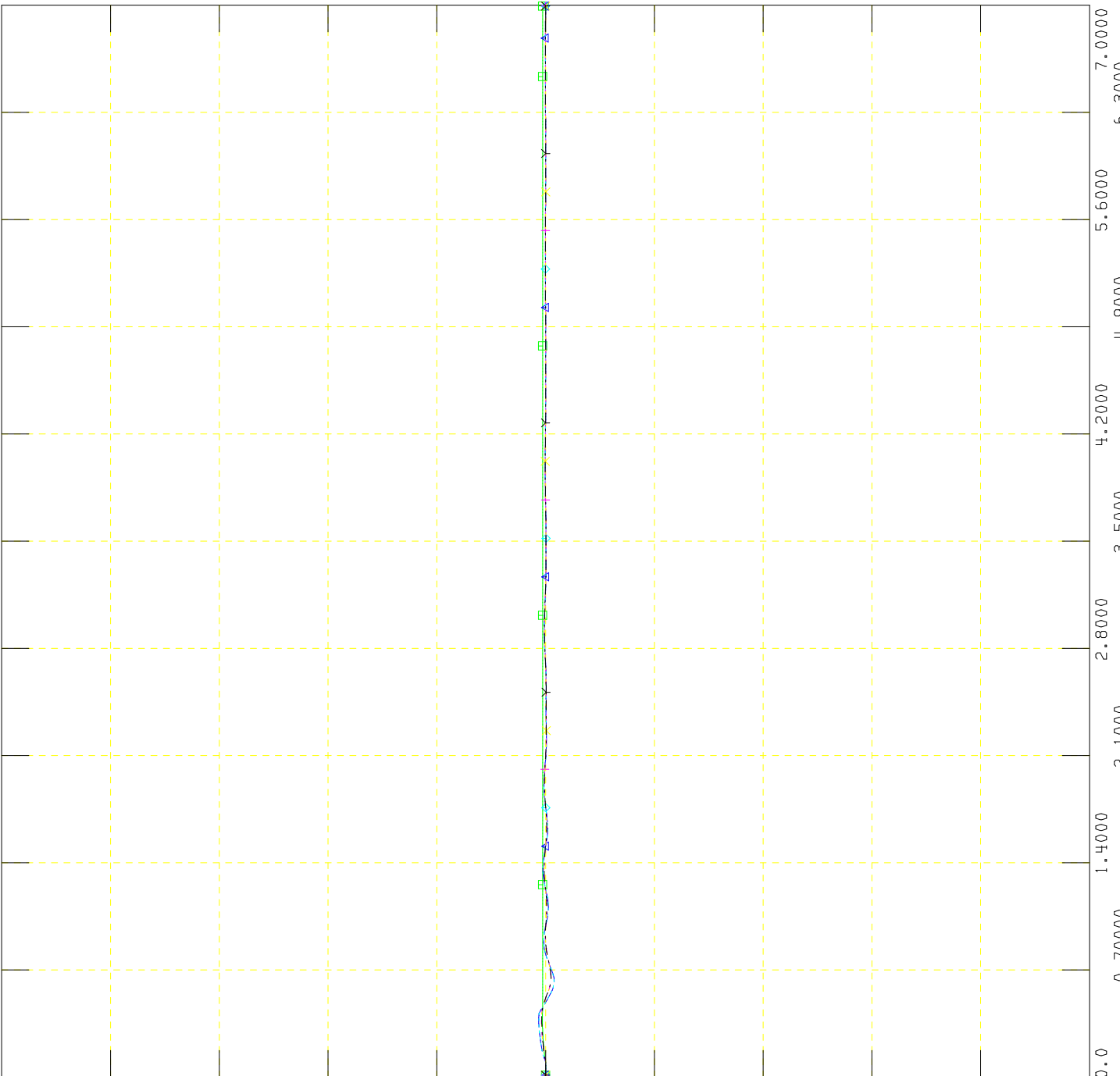
FRI, JUN 13 2008 12:25  
 MACHINE FREQUENCIES - 01



LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



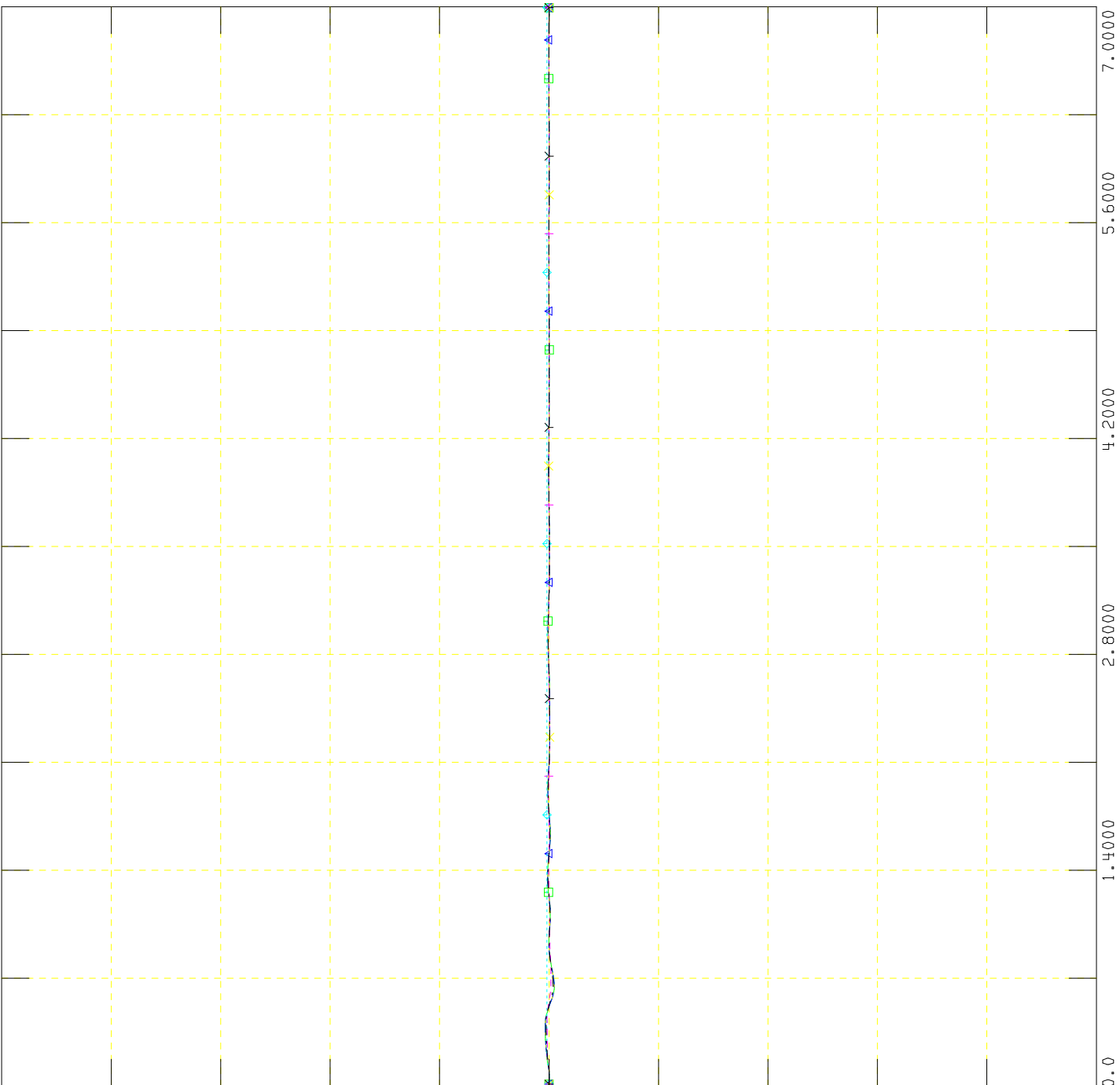
FRI, JUN 13 2008 12:25  
MACHINE FREQUENCIES - 02



LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

Channel	Freq	Phase	Value
CHNL# 52	CFREQ 334079	C4FWPIPE	138.00
CHNL# 51	CFREQ 334078	C4SHEAWIL	138.00
CHNL# 50	CFREQ 334077	C4PECHCK#	138.00
CHNL# 49	CFREQ 334076	C4CANEYCK	138.00
CHNL# 48	CFREQ 334075	C4LONGMIR	138.00
CHNL# 47	CFREQ 334074	C4PANORAM	138.00



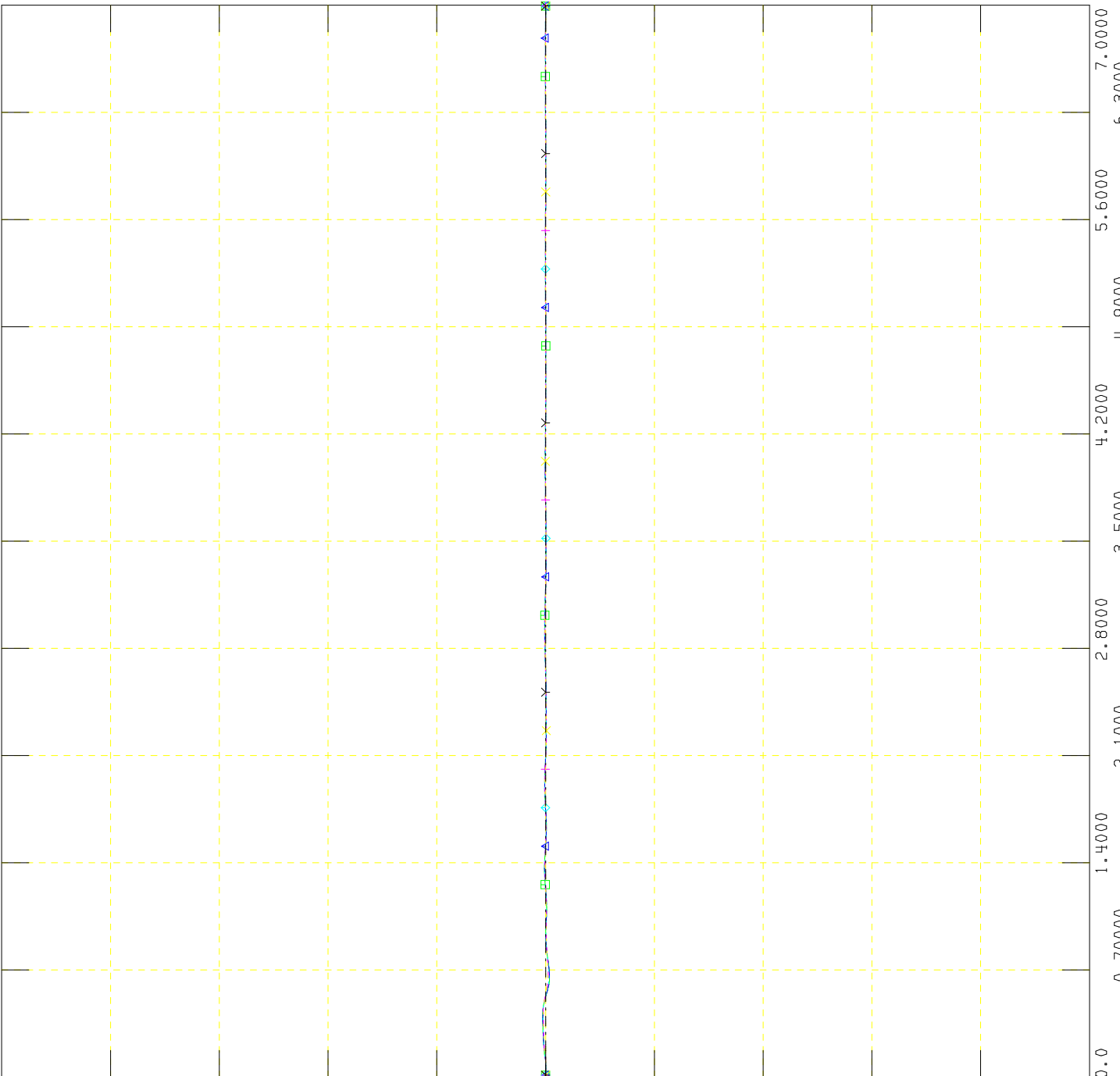
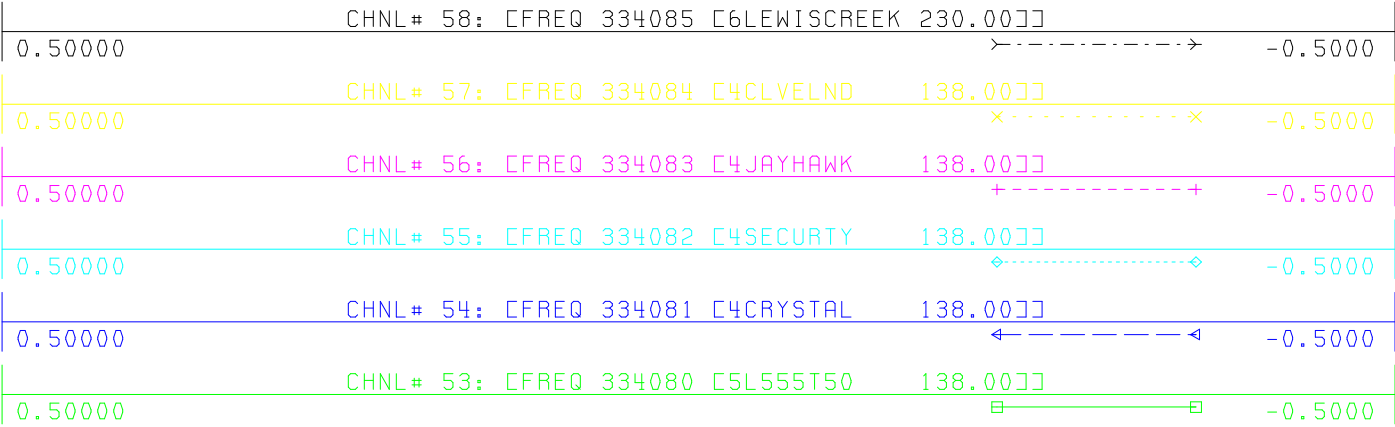
FRI, JUN 13 2008 12:25  
MACHINE FREQUENCIES - 03

TIME (SECONDS)

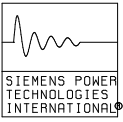


LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out  
CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 12:25  
MACHINE FREQUENCIES - 04

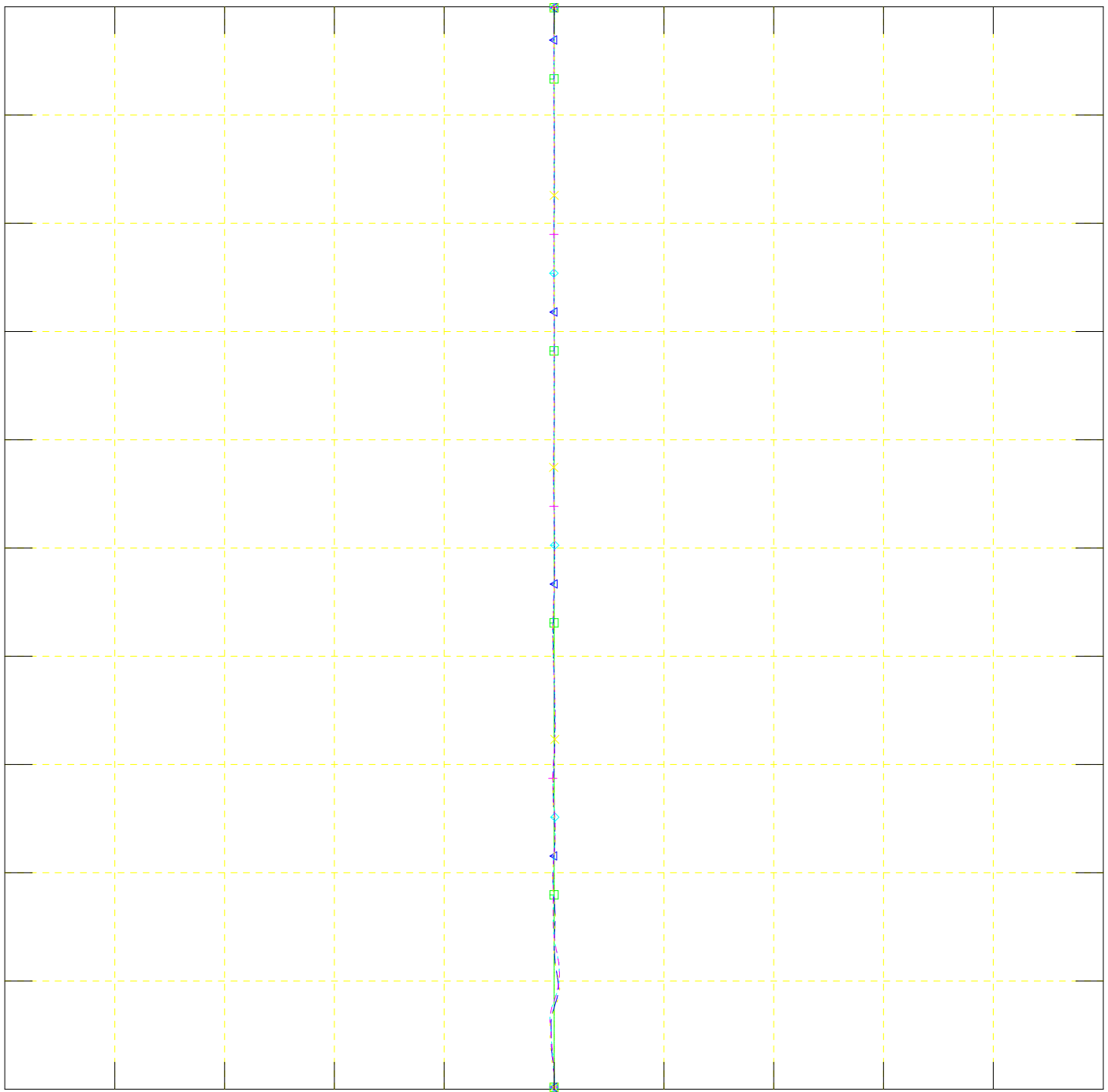


LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

FRI, JUN 13 2008 12:25  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value	Symbol
CHNL# 63	CFREQ 99183 [G3PID211	18.000]]	x
CHNL# 62	CFREQ 99182 [G2PID211	18.000]]	+
CHNL# 61	CFREQ 99181 [G1PID211	18.000]]	◇
CHNL# 60	CFREQ 334090 [4ALDEN	138.00]]	△
CHNL# 59	CFREQ 334086 [6CONROE	230.00]]	□



0.50000  
0.50000  
0.50000  
0.50000  
0.50000  
-0.50000  
-0.50000  
-0.50000  
-0.50000  
-0.50000

7.0000  
6.3000  
5.6000  
4.9000  
4.2000  
3.5000  
2.8000  
2.1000  
1.4000  
0.70000  
0.0

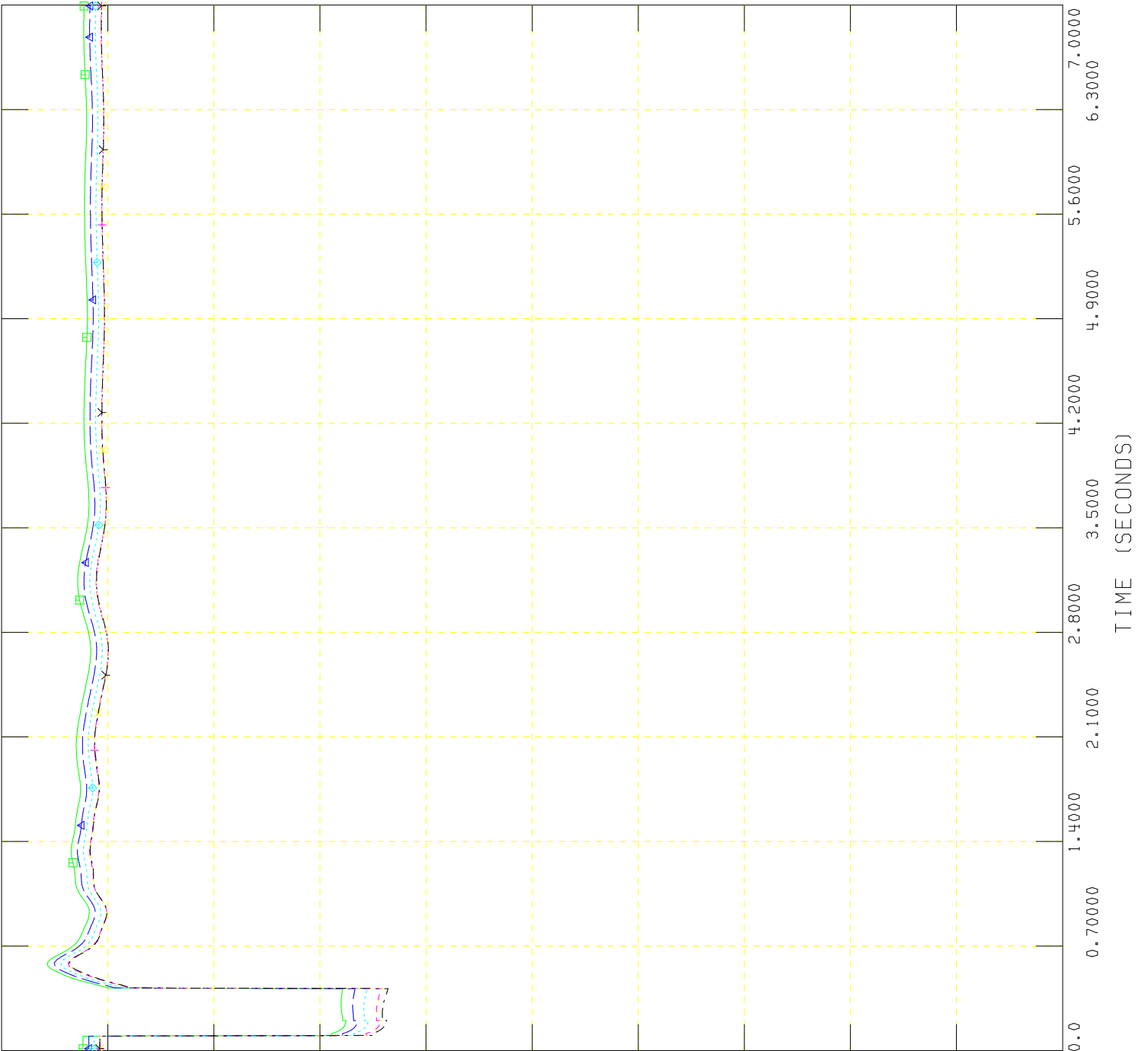
TIME (SECONDS)



LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



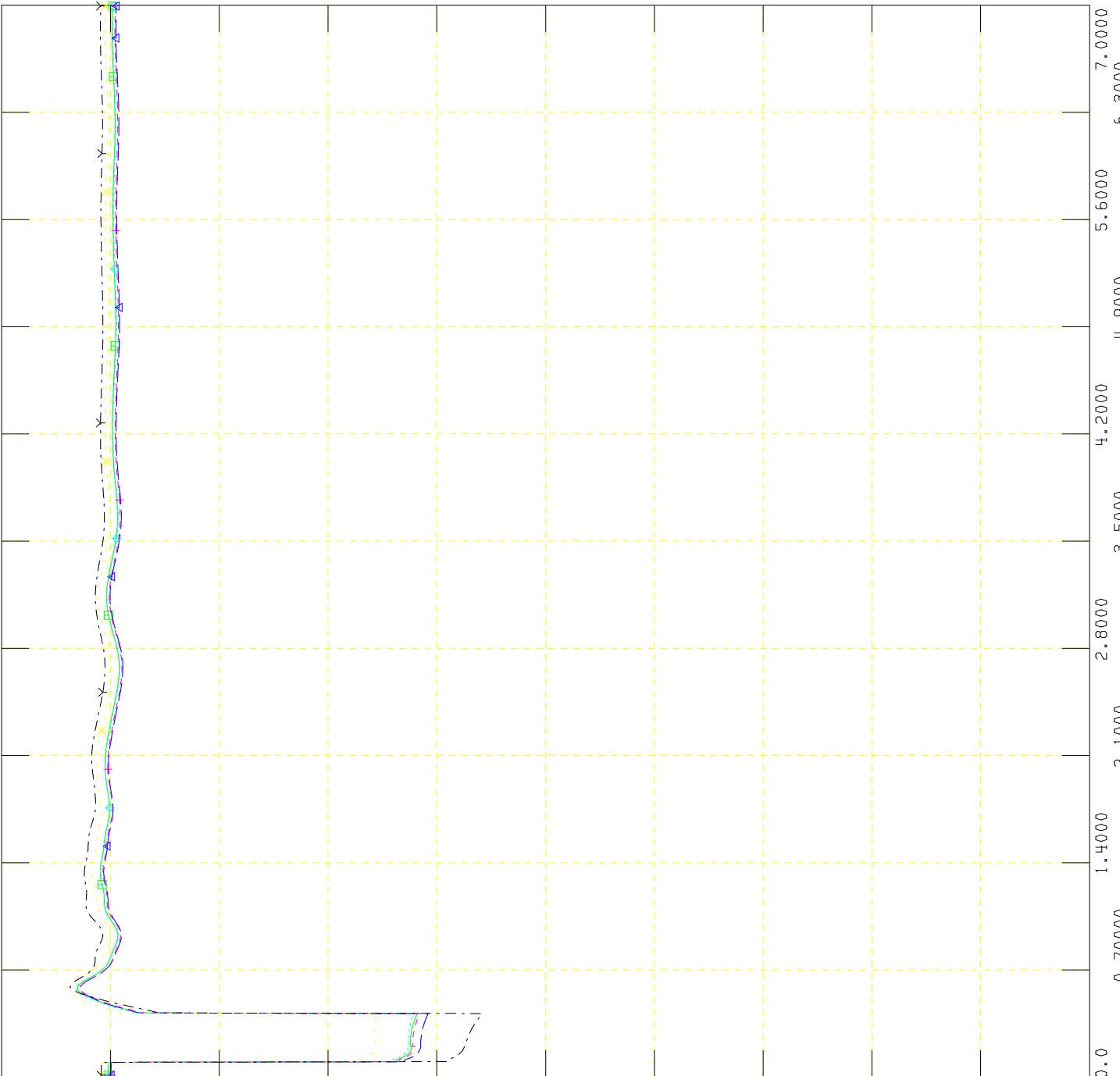
FRI, JUN 13 2008 12:25  
BUS VOLTAGES - 01



LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

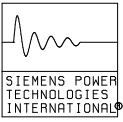
FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



FRI, JUN 13 2008 12:25  
BUS VOLTAGES - 02

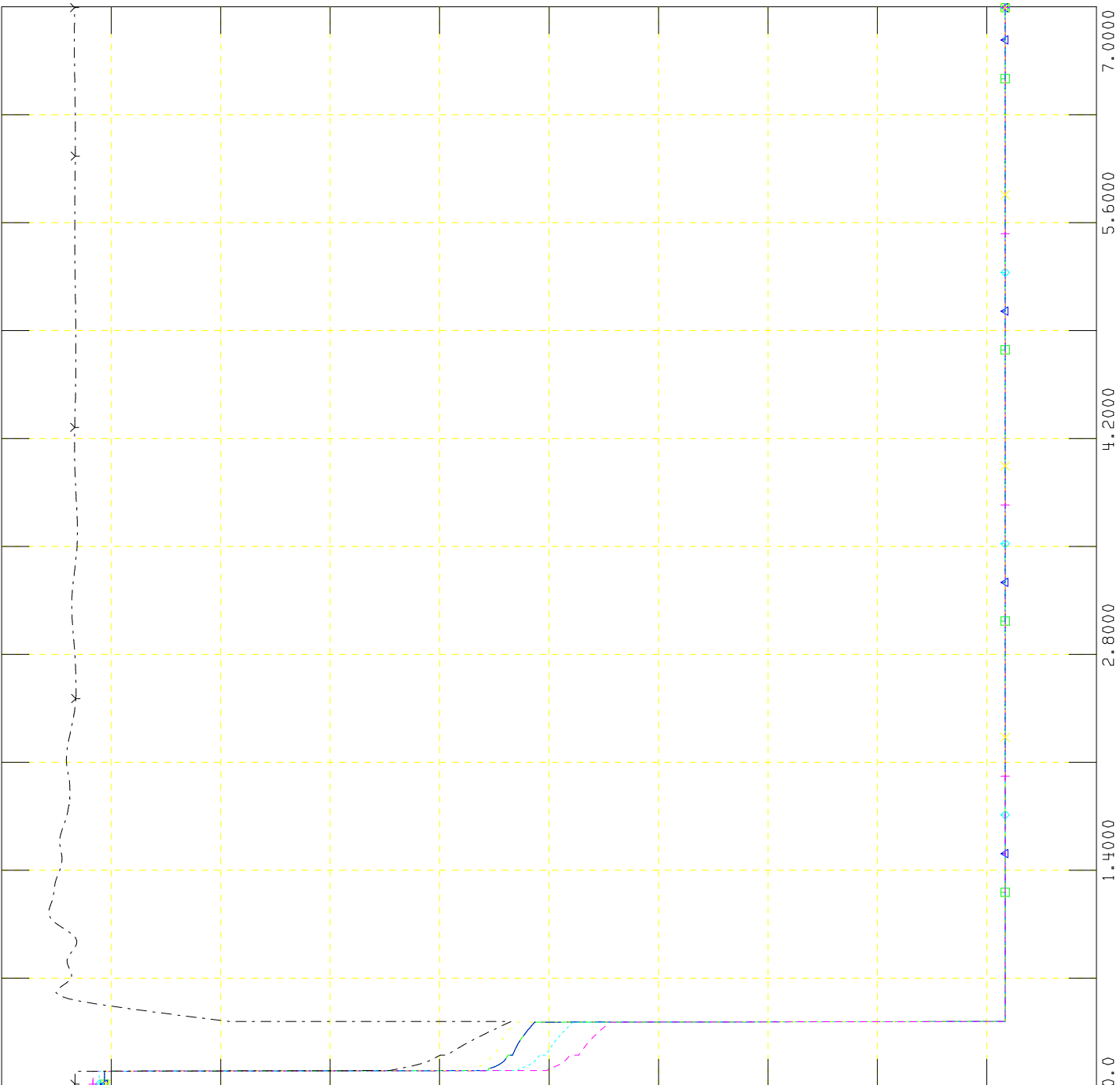




LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

Channel	Label	Value
CHNL# 81	[VOLT 334070 [G1LEWIS 22.000]]	22.000
CHNL# 80	[VOLT 334066 [4GEORGIA 138.00]]	138.00
CHNL# 79	[VOLT 334065 [4LACON 138.00]]	138.00
CHNL# 78	[VOLT 334064 [8LNG 413 138.00]]	138.00
CHNL# 77	[VOLT 334063 [4EVGRN* 138.00]]	138.00
CHNL# 76	[VOLT 334062 [4TEMCO 138.00]]	138.00



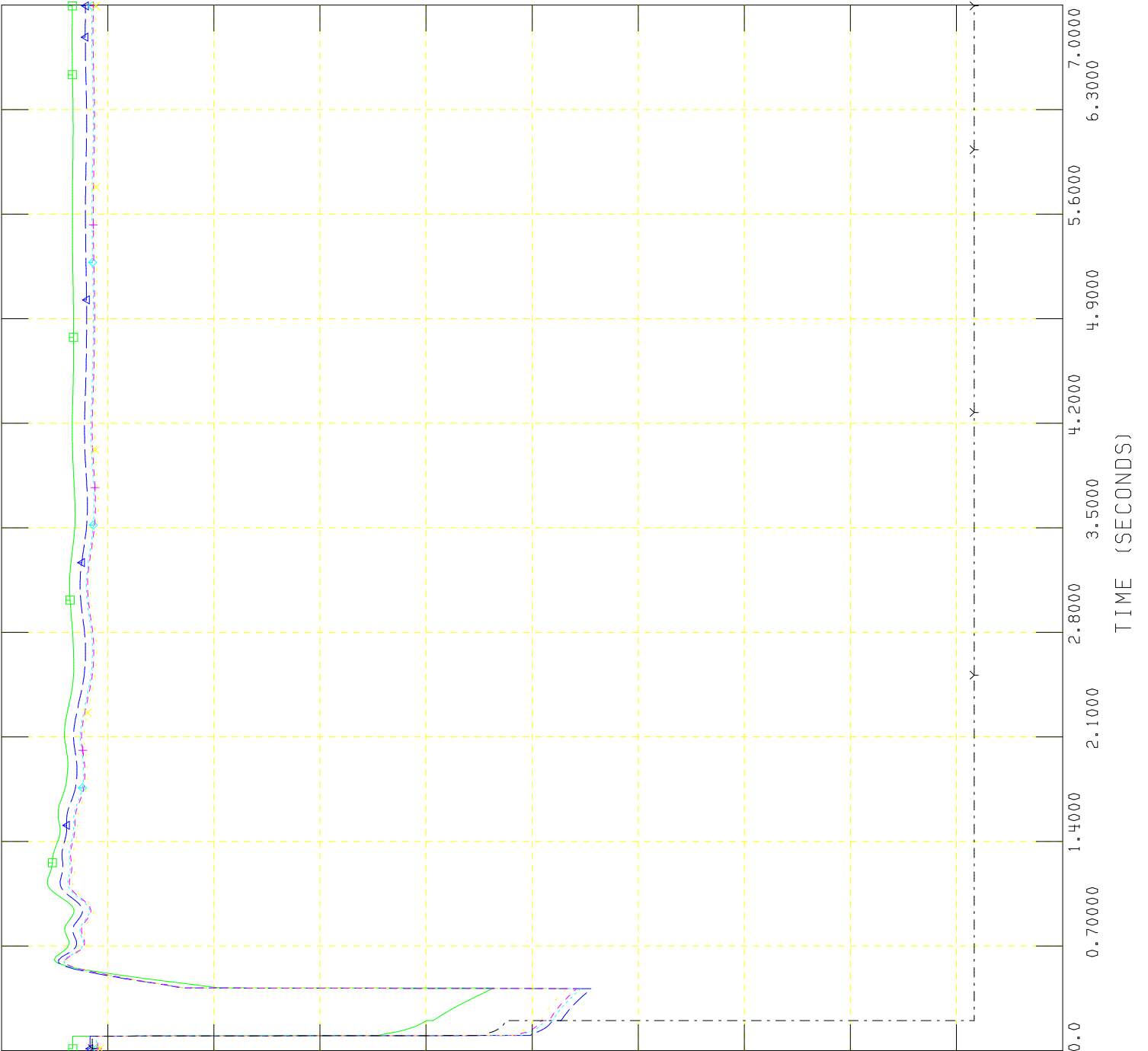
FRI, JUN 13 2008 12:25  
BUS VOLTAGES - 03



LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

1.1000	CHNL# 87: [VOLT 334076 [C4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [C4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [C4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [C4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [C4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [C62LEWIS 22.00]]	-0.1000



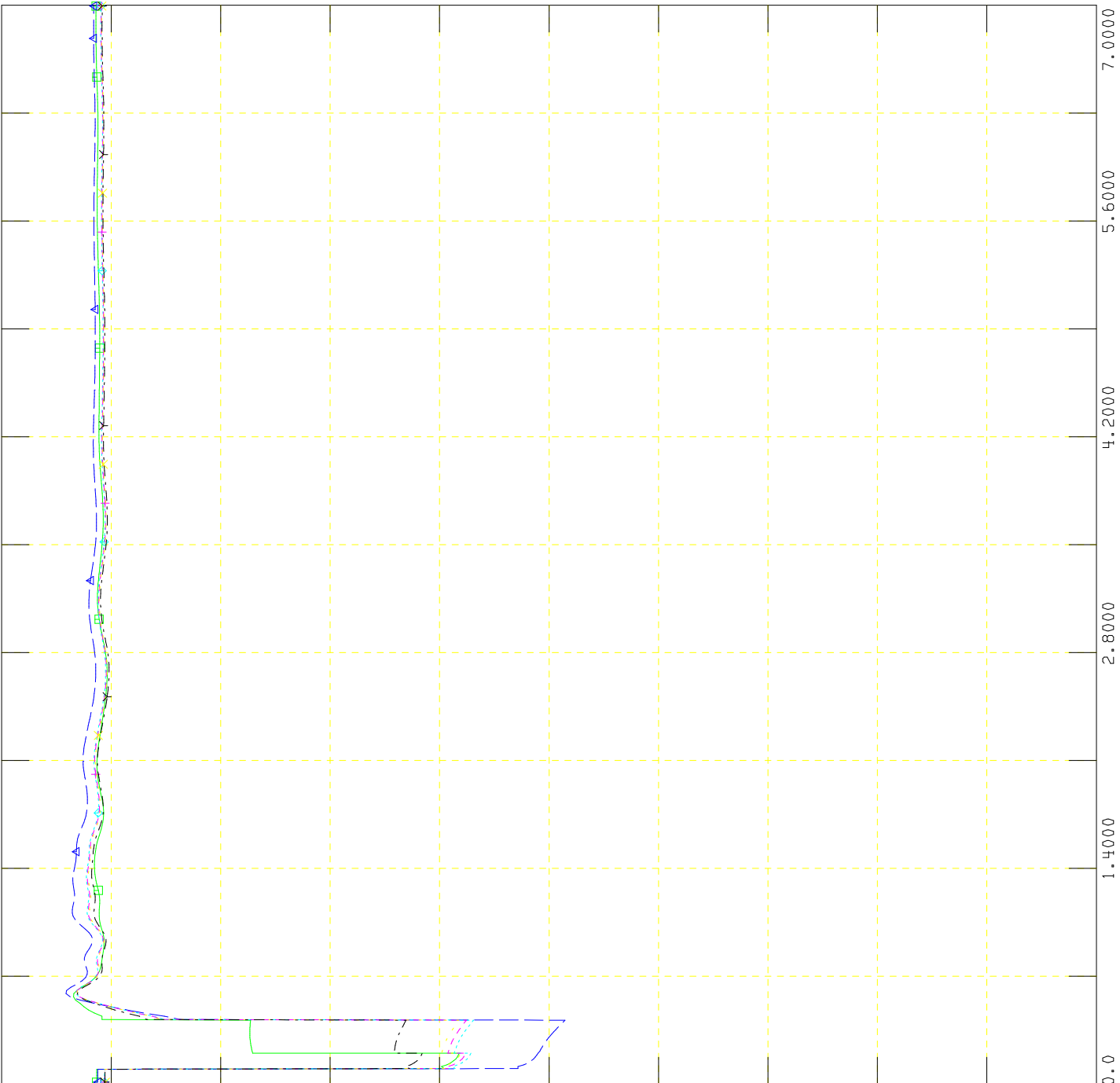
FRI, JUN 13 2008 12:25  
BUS VOLTAGES - 04



LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



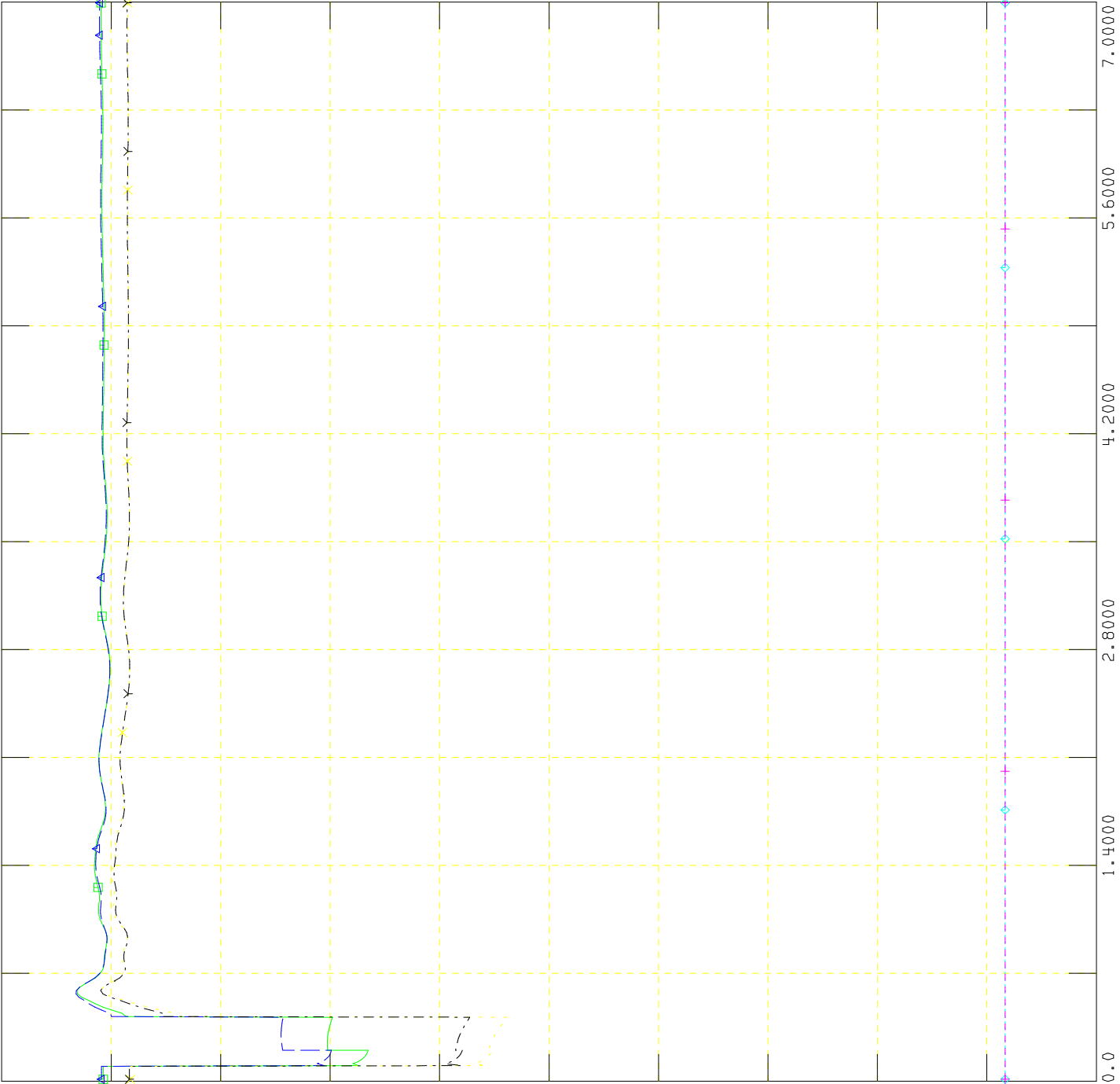
FRI, JUN 13 2008 12:25  
BUS VOLTAGES - 05



LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



FRI, JUN 13 2008 12:25  
BUS VOLTAGES - 06

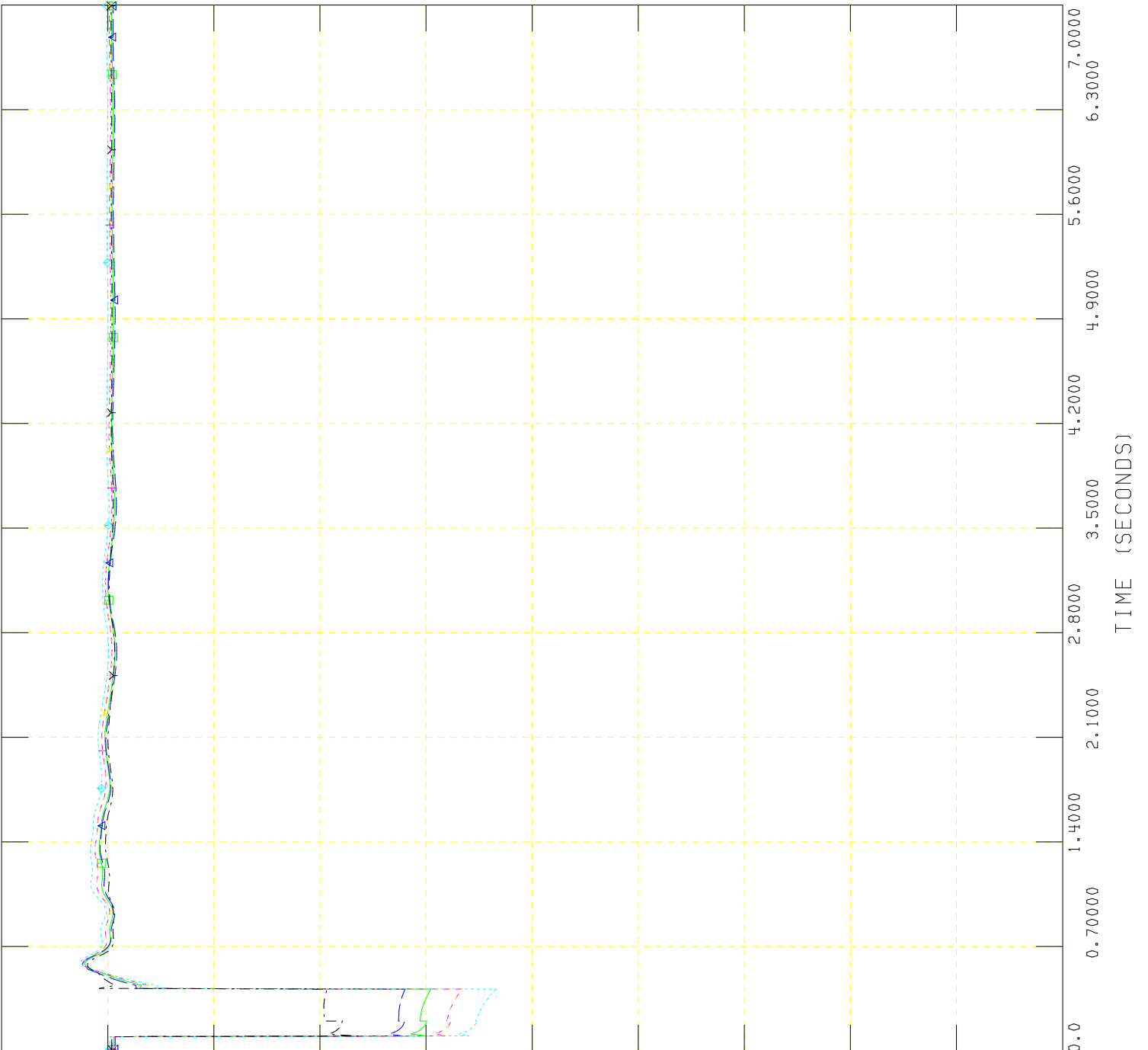




LC  
 LC-PEACHCRK STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



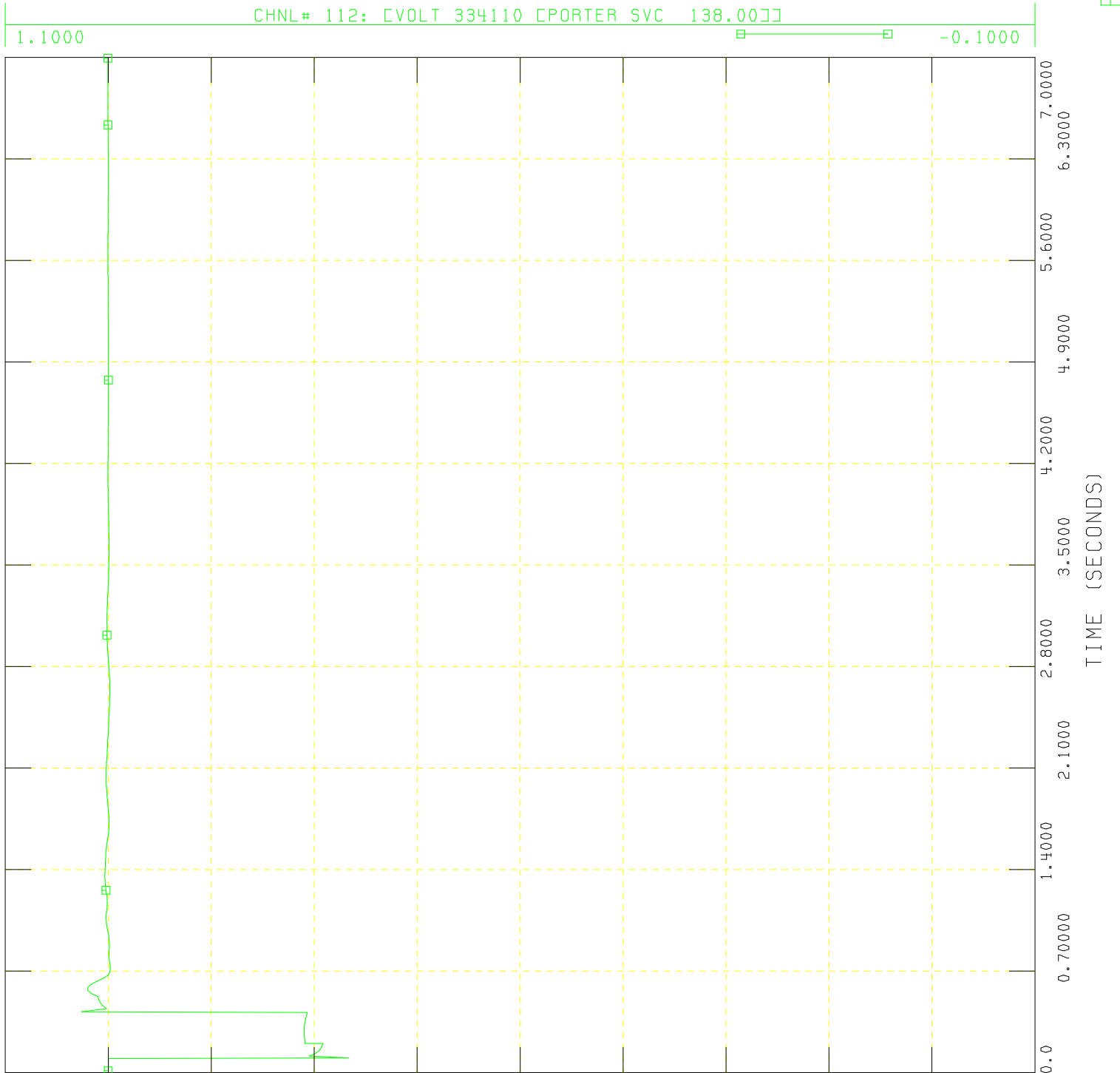
FRI, JUN 13 2008 12:25  
 BUS VOLTAGES - 08



LC  
LC-PEACHCRK STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

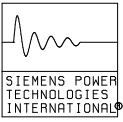
FILE: C:\Southwest Power Pool\LC-PeachCrk-7a.out

FRI, JUN 13 2008 12:25  
BUS VOLTAGES - 09



**FAULT G1a**  
**Lewis Creek 138 kV (Drop CT1)**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**

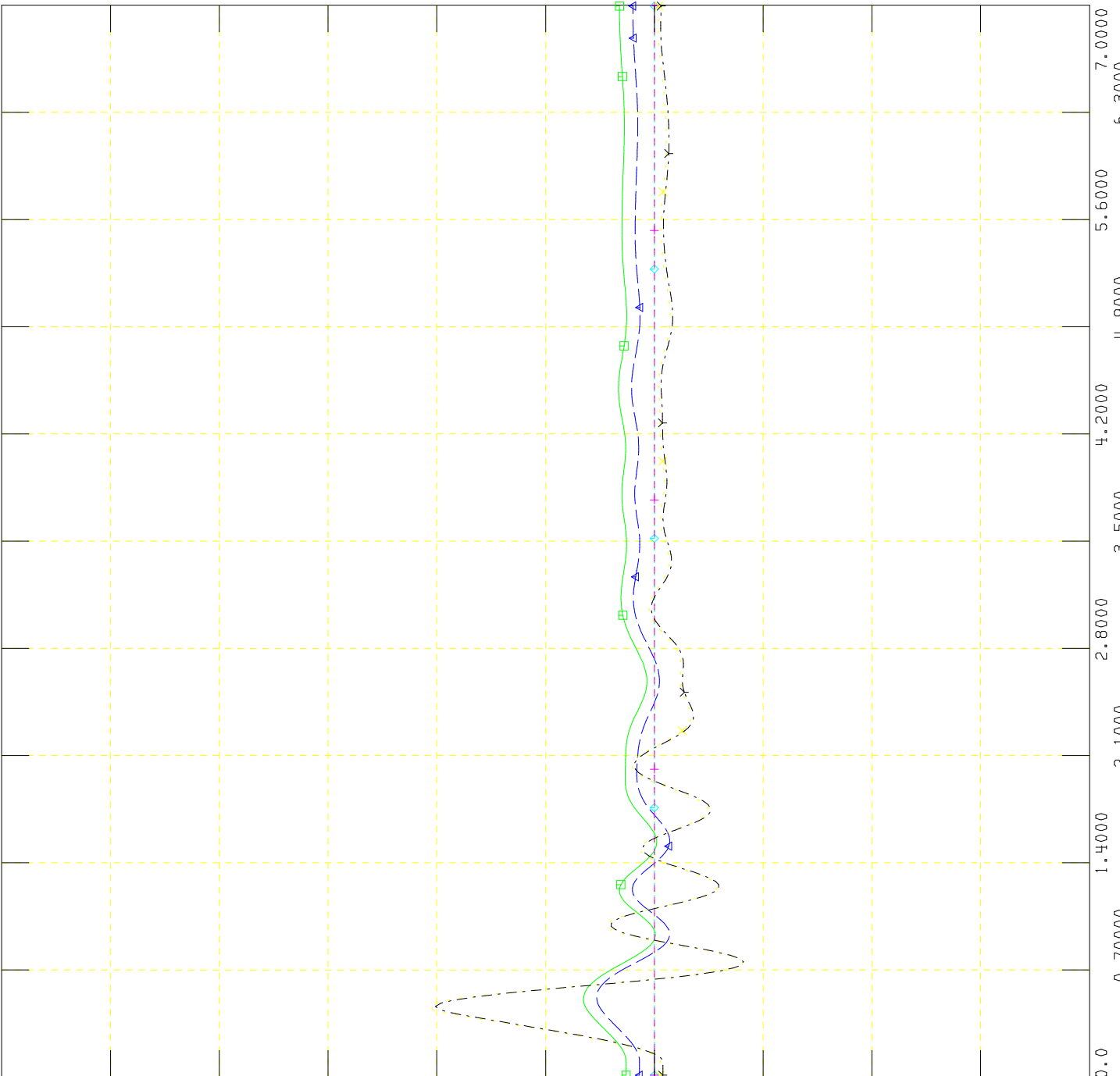




LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

Channel	Label	Value
6	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



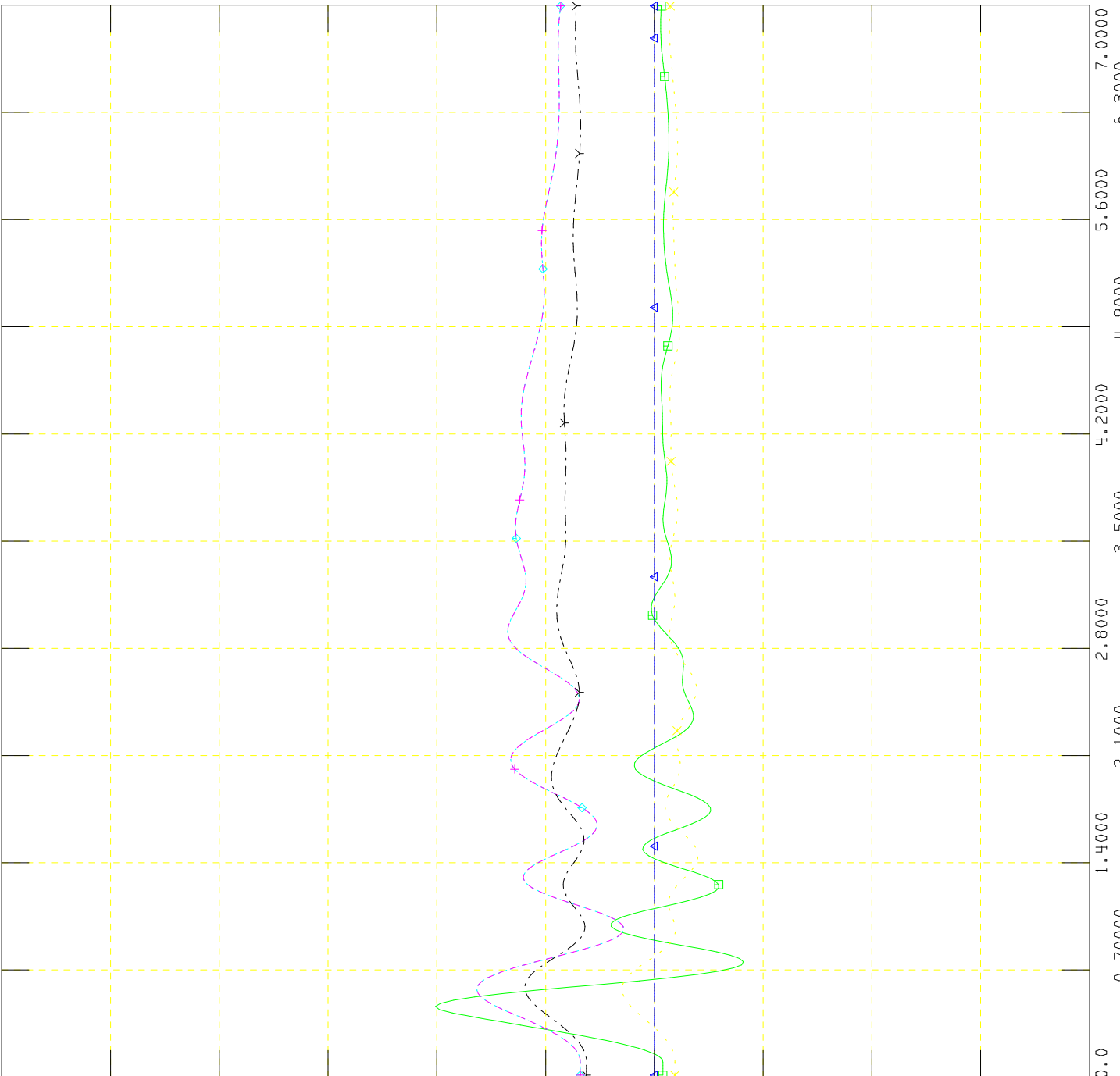
FRI, JUN 13 2008 12:34  
MACHINE ANGLES - 01



LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

Channel	Label	Value
150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

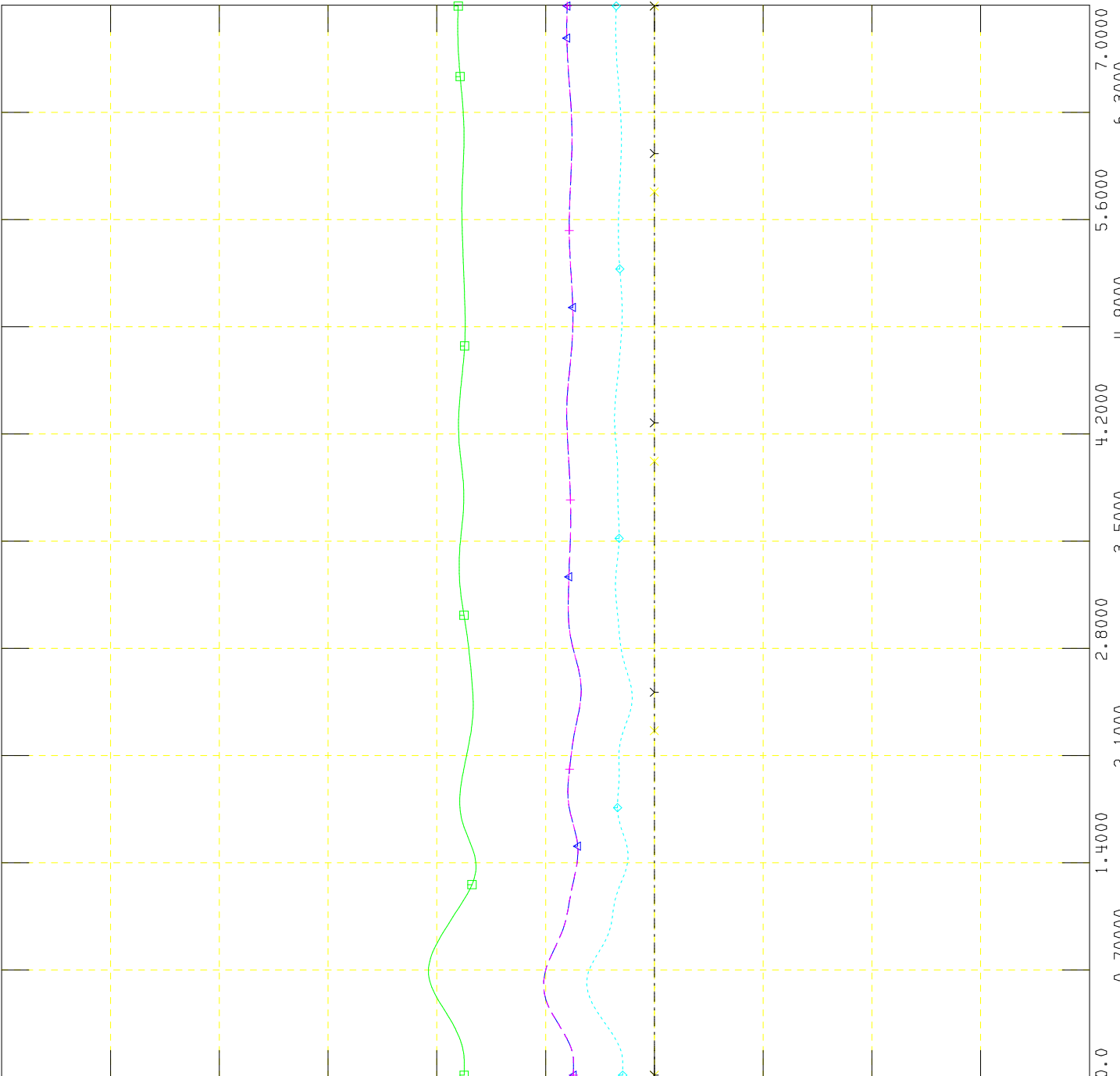
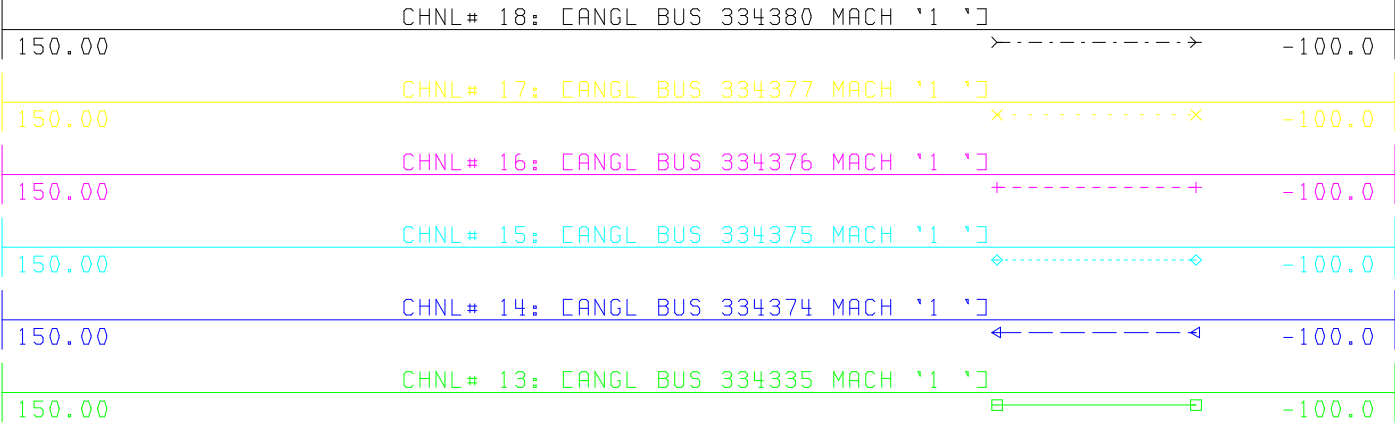


FRI, JUN 13 2008 12:34  
MACHINE ANGLES - 02



LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out



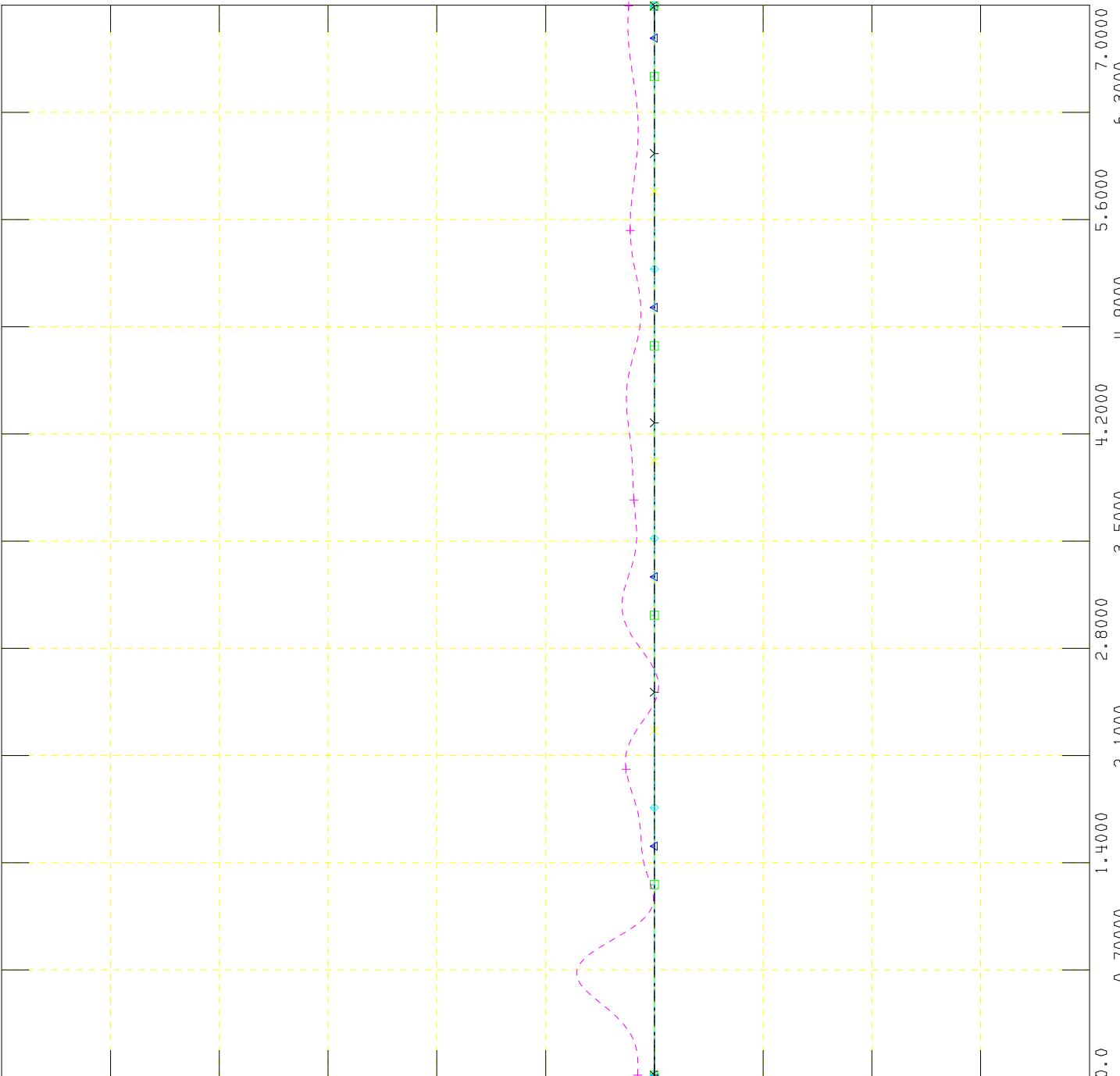
FRI, JUN 13 2008 12:34  
MACHINE ANGLES - 03



LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0

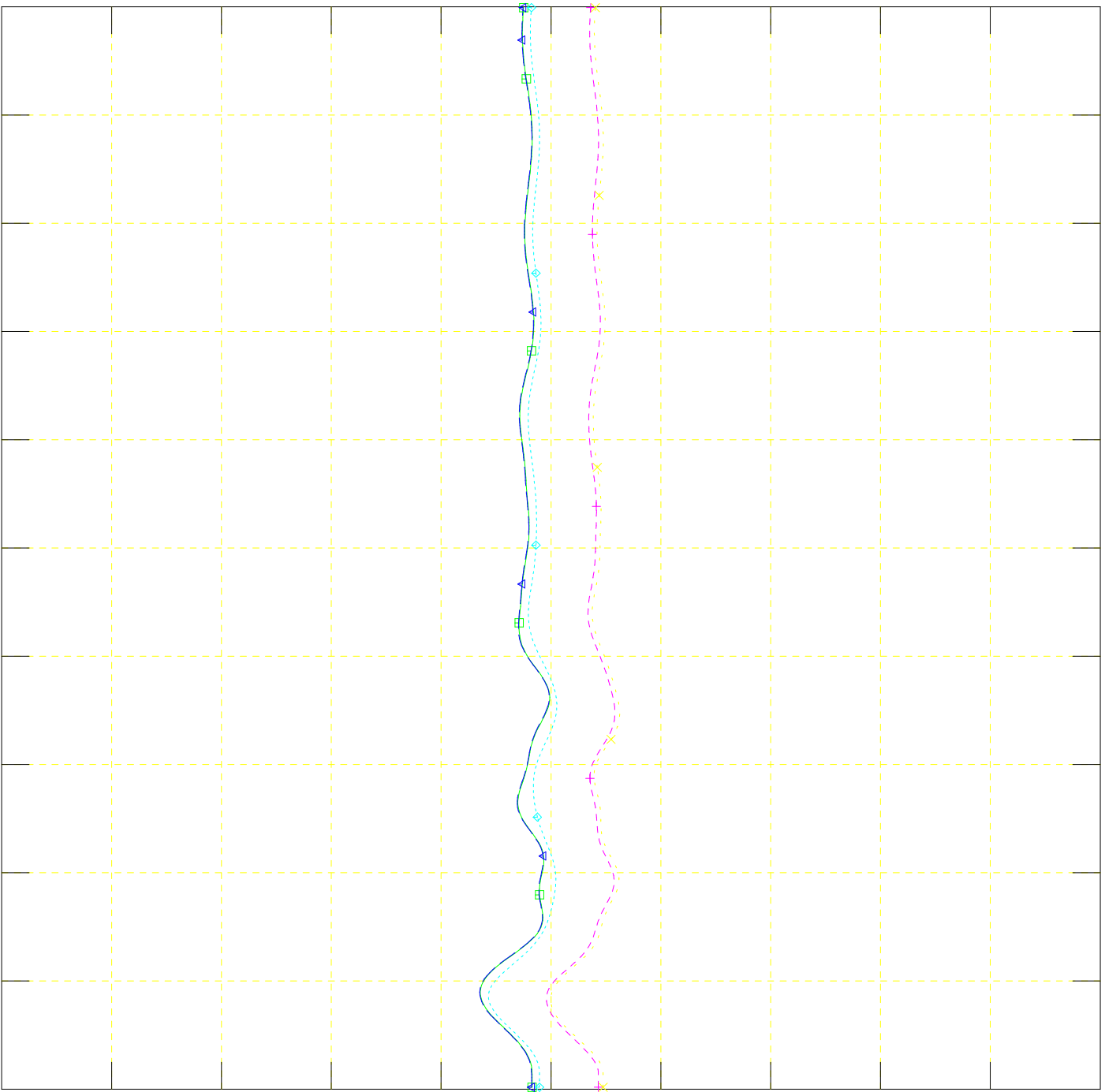
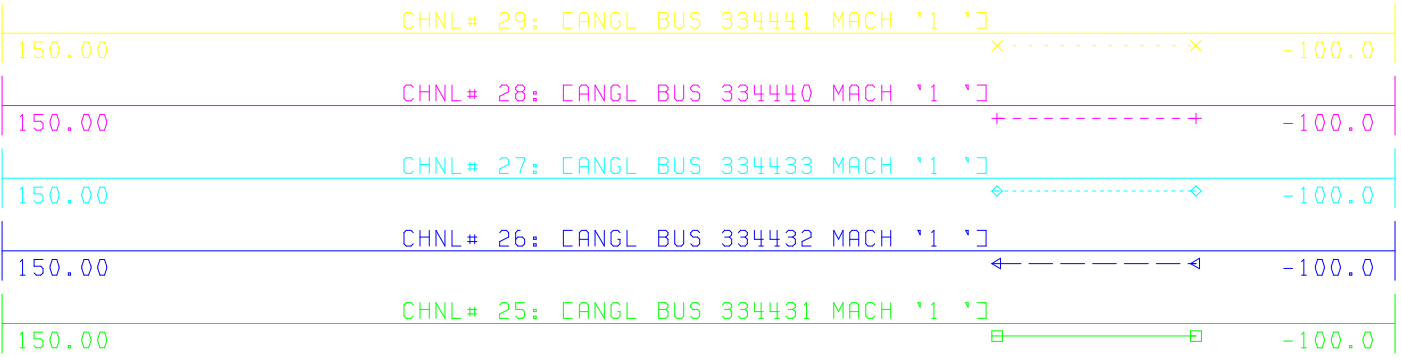


FRI, JUN 13 2008 12:34  
MACHINE ANGLES - 04

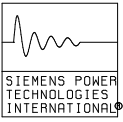


LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out



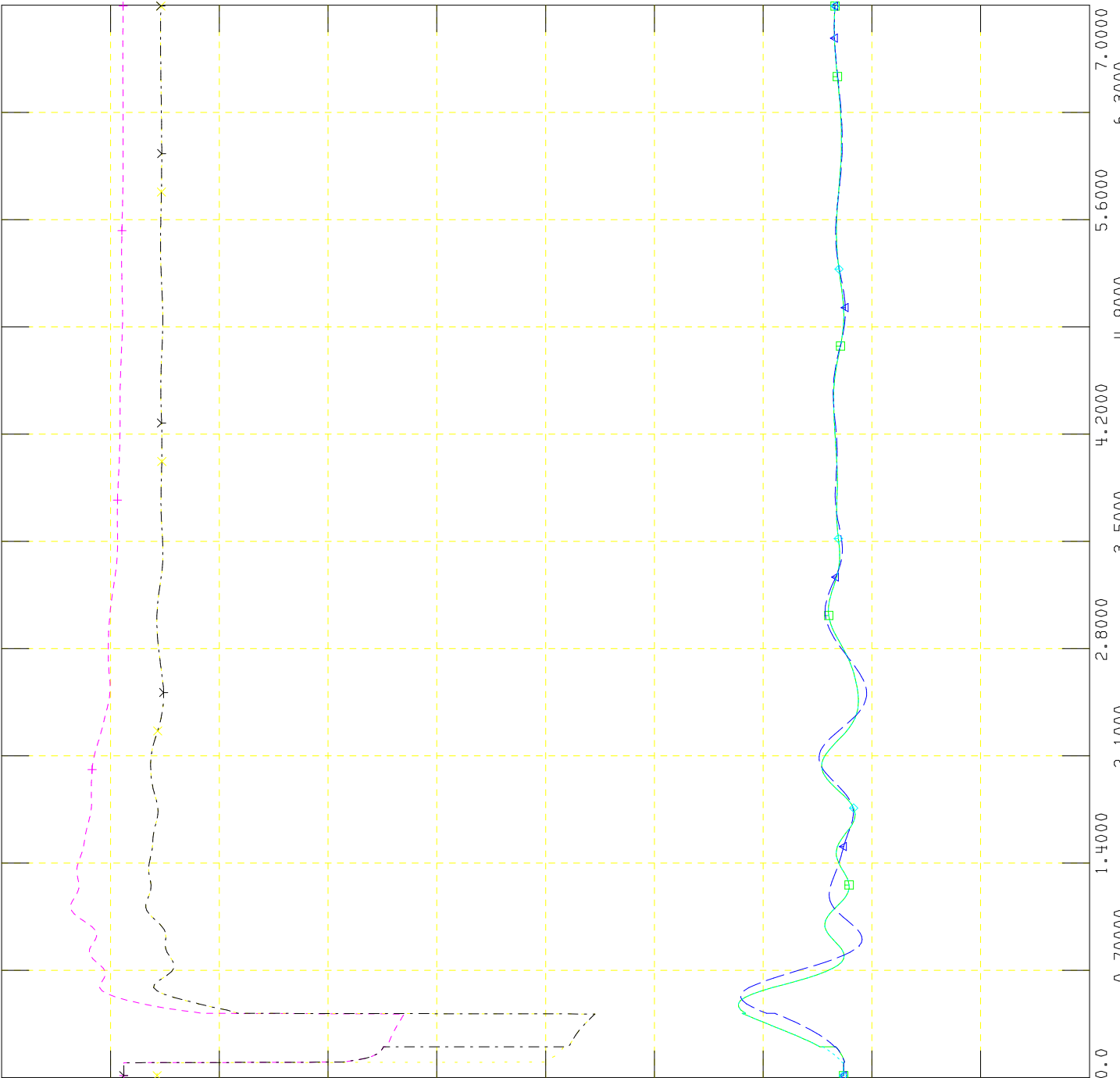
FRI, JUN 13 2008 12:34  
MACHINE ANGLES - 05



LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



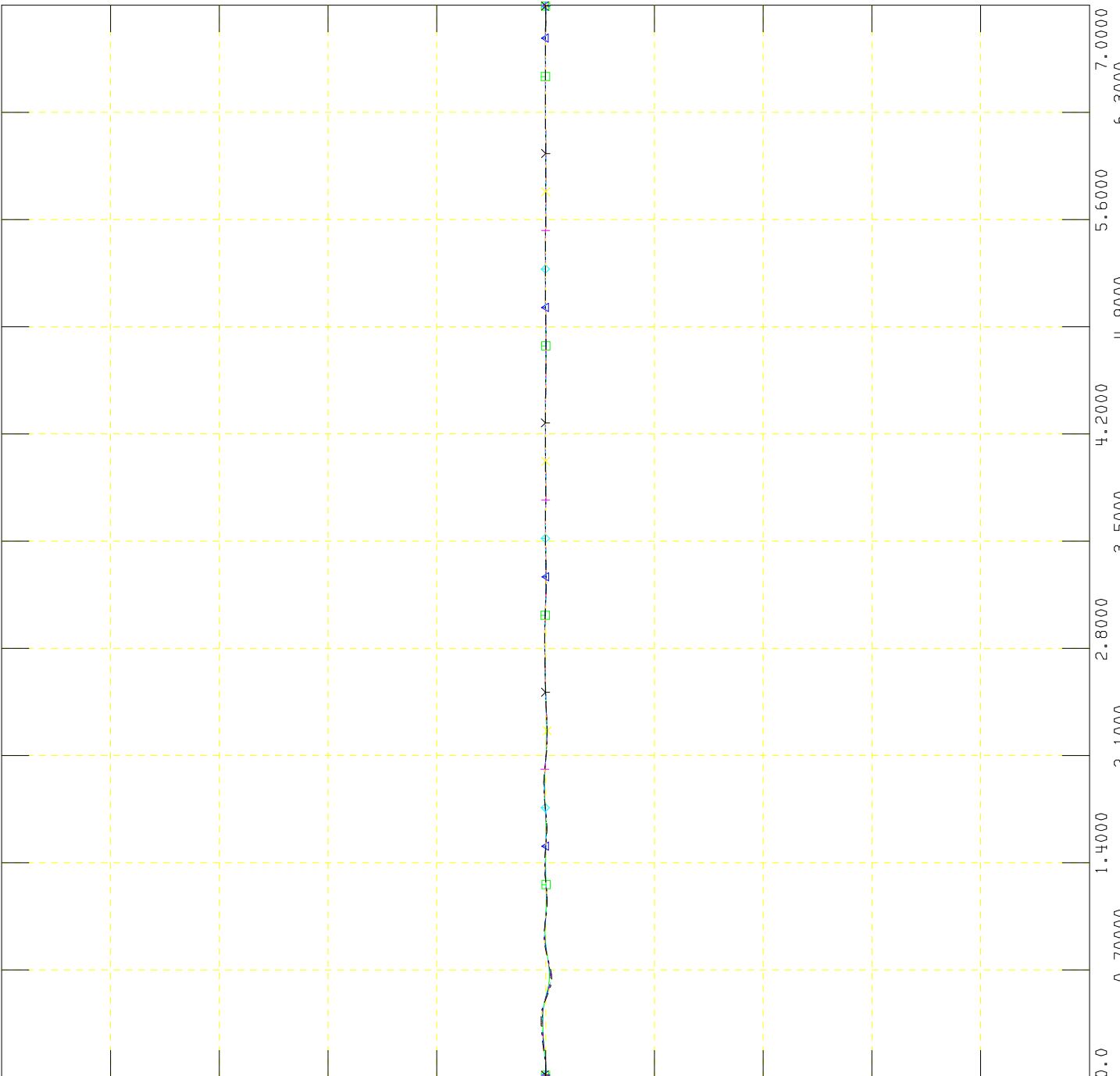
FRI, JUN 13 2008 12:34  
ANG & VOLT - PID-211 GENS



LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

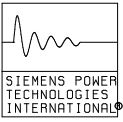
FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

Channel	CFREQ	Channel Name	Value
CHNL# 41	334065	C4LACON	138.00
CHNL# 40	334064	C8LNG 413	138.00
CHNL# 39	334063	C4EVGRN*	138.00
CHNL# 38	334062	C4TEMCO	138.00
CHNL# 37	334061	C4GOREE	138.00
CHNL# 36	334060	C4MT.ZION	138.00



FRI, JUN 13 2008 12:34  
MACHINE FREQUENCIES - 01

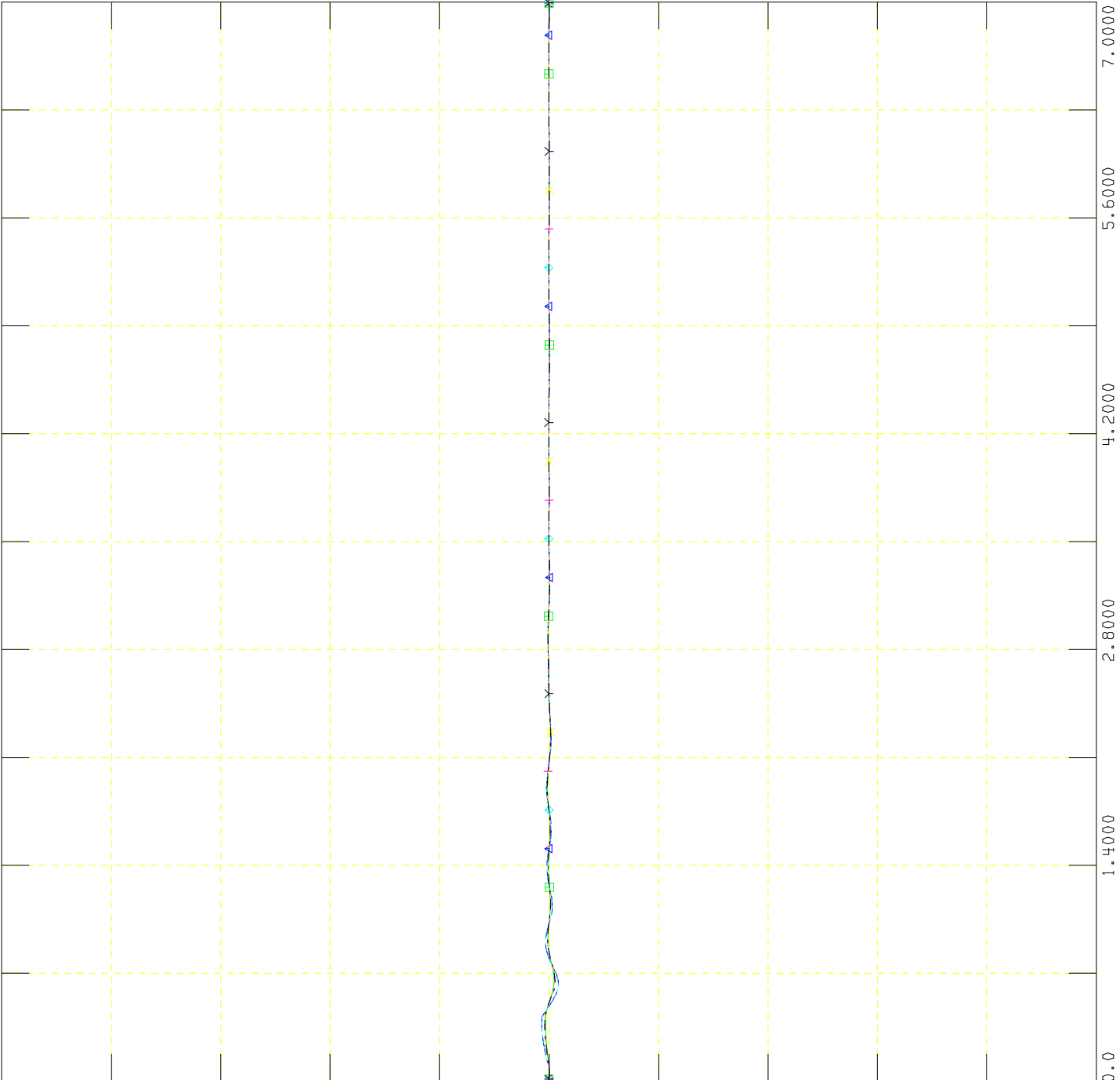
TIME (SECONDS)



LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

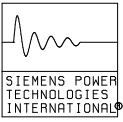
FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



FRI, JUN 13 2008 12:34  
MACHINE FREQUENCIES - 02

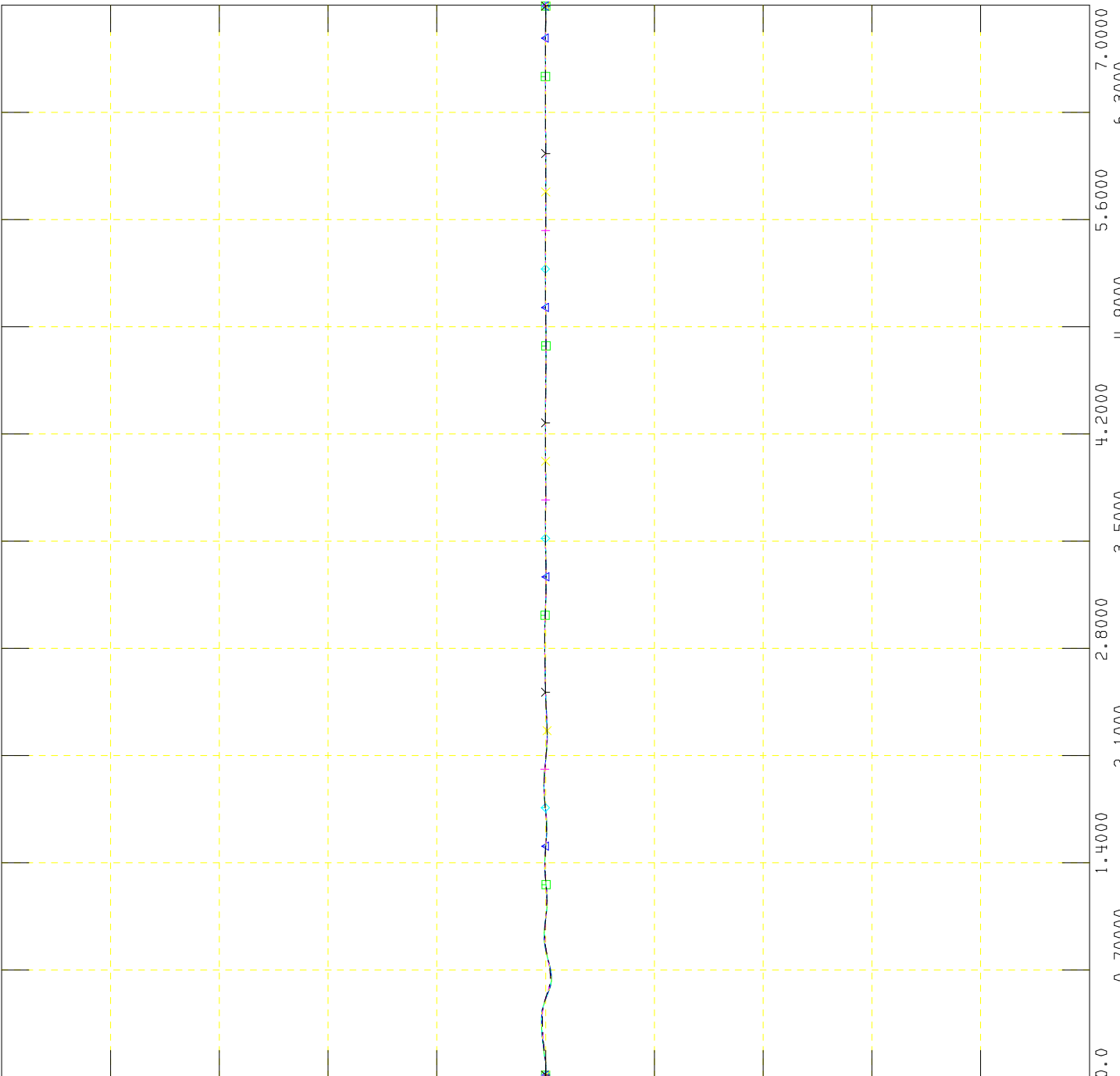




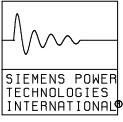
LC  
 LC-GENCT1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



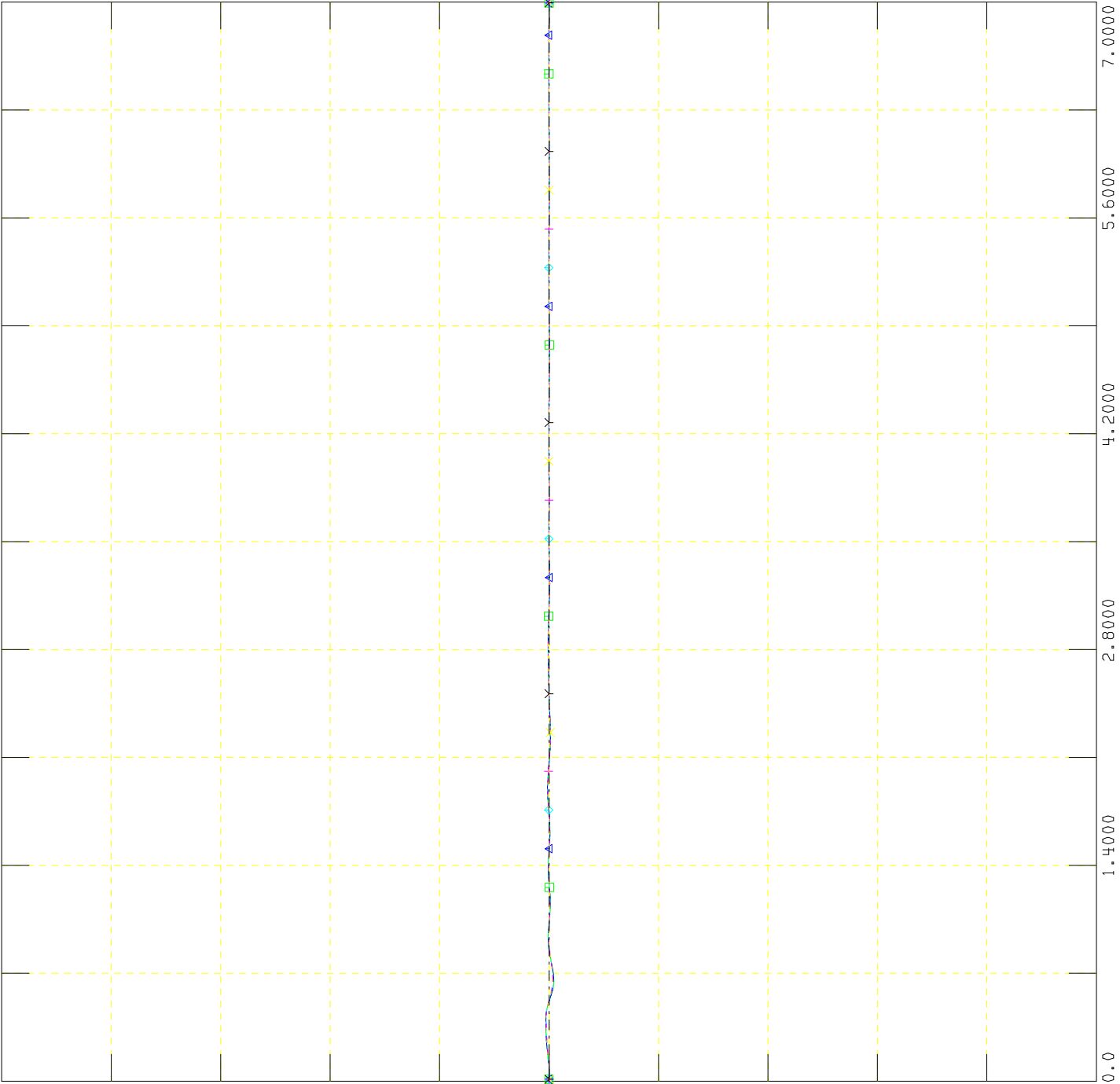
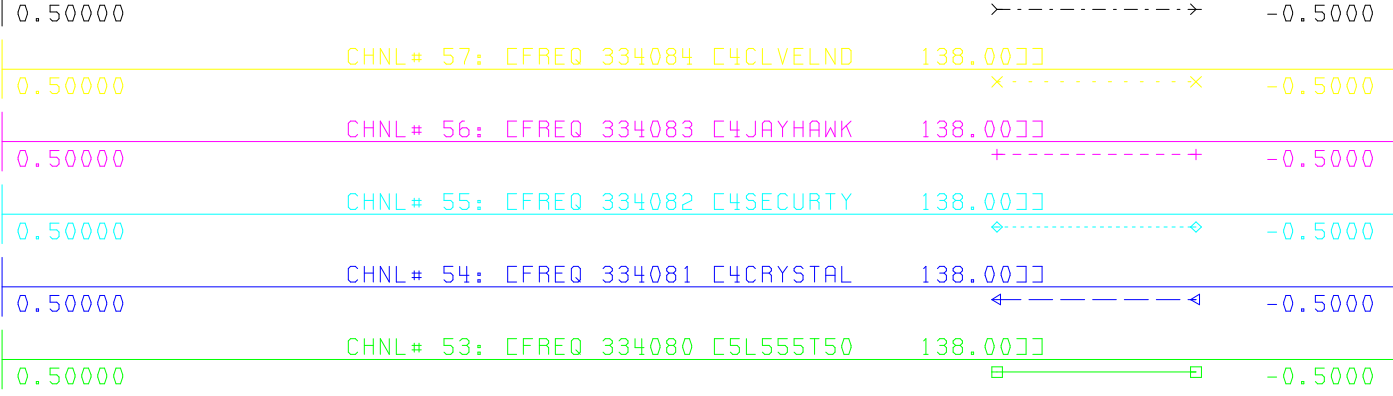
FRI, JUN 13 2008 12:34  
 MACHINE FREQUENCIES - 03



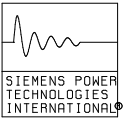
LC  
 LC-GENCT1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



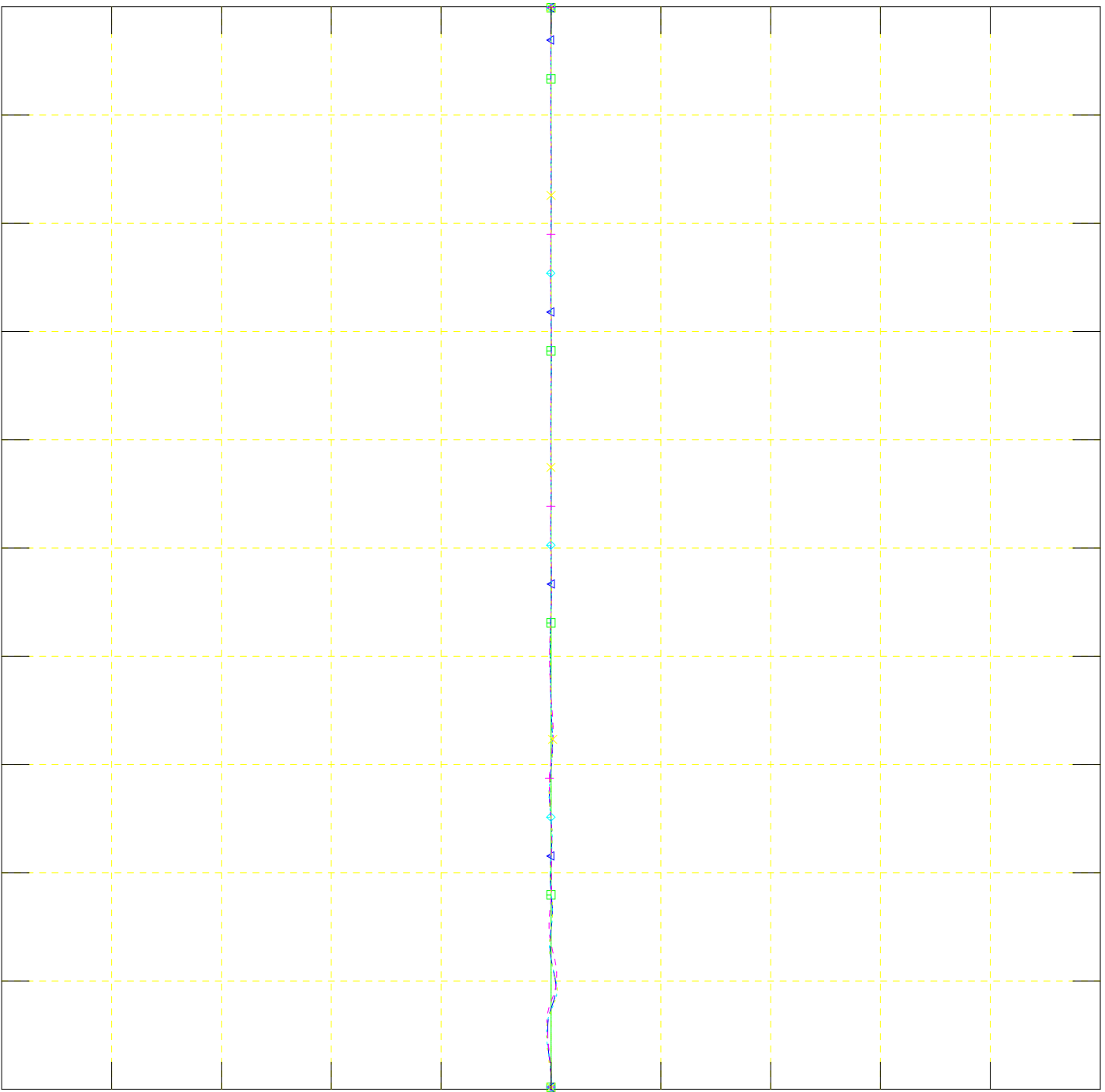
FRI, JUN 13 2008 12:34  
 MACHINE FREQUENCIES - 04



LC  
 LC-GENCT1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

0.50000	CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	x-----x	-0.50000
0.50000	CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	+-----+	-0.50000
0.50000	CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	◇-----◇	-0.50000
0.50000	CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	←-----←	-0.50000
0.50000	CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	▣-----▣	-0.50000



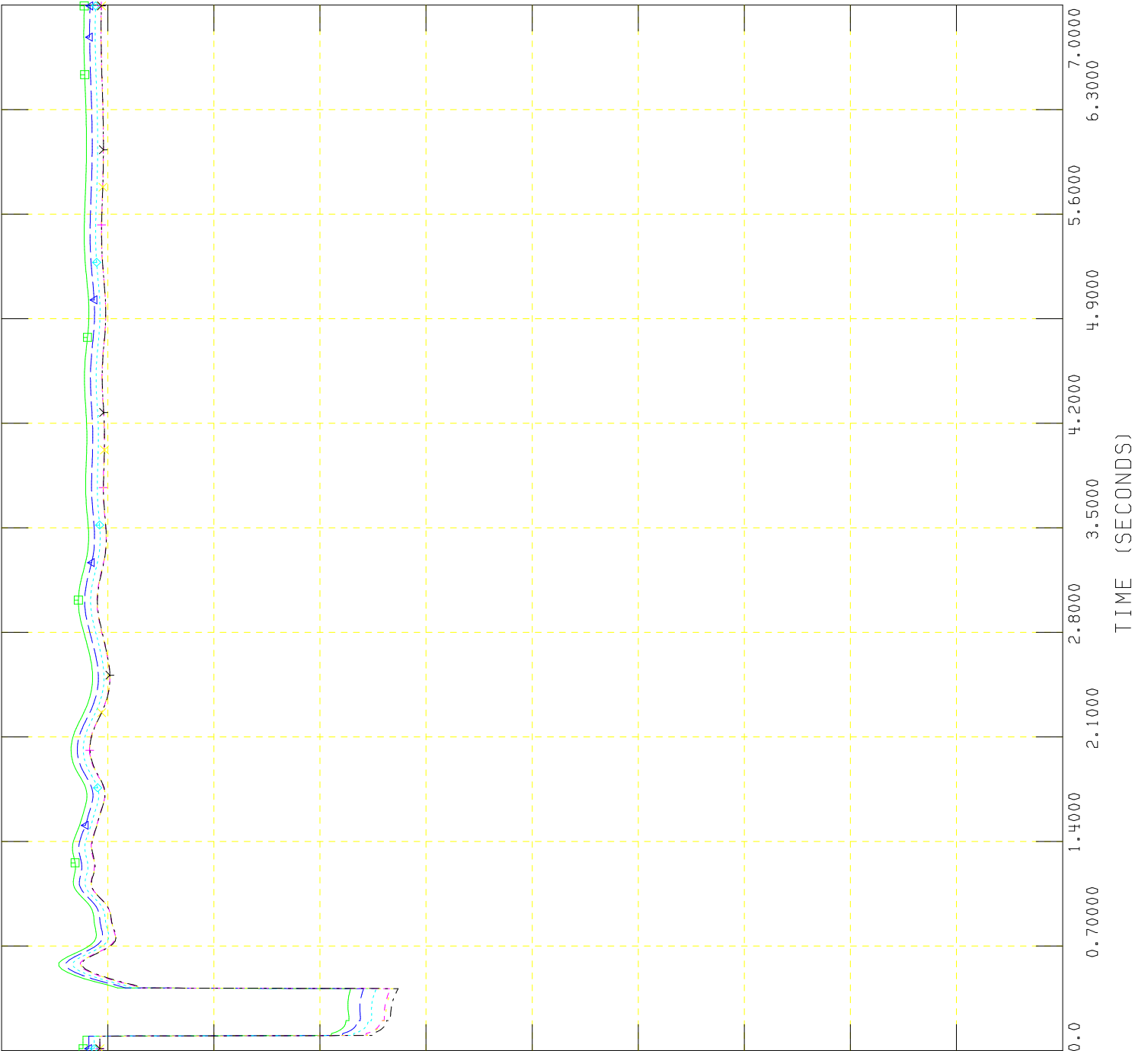
FRI, JUN 13 2008 12:34  
 MACHINE FREQUENCIES - 05



LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



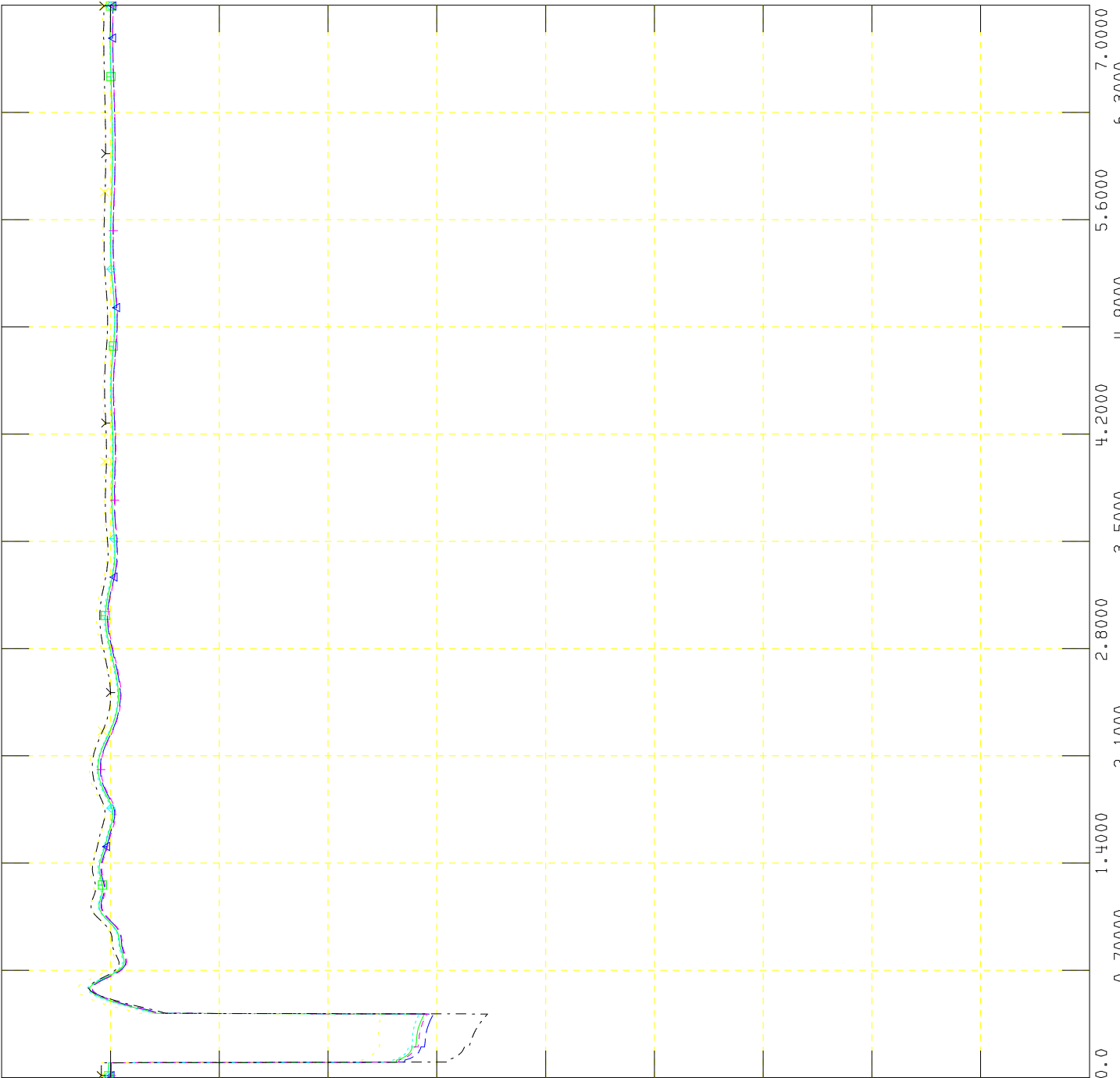
FRI, JUN 13 2008 12:34  
BUS VOLTAGES - 01



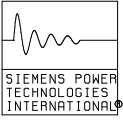
LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



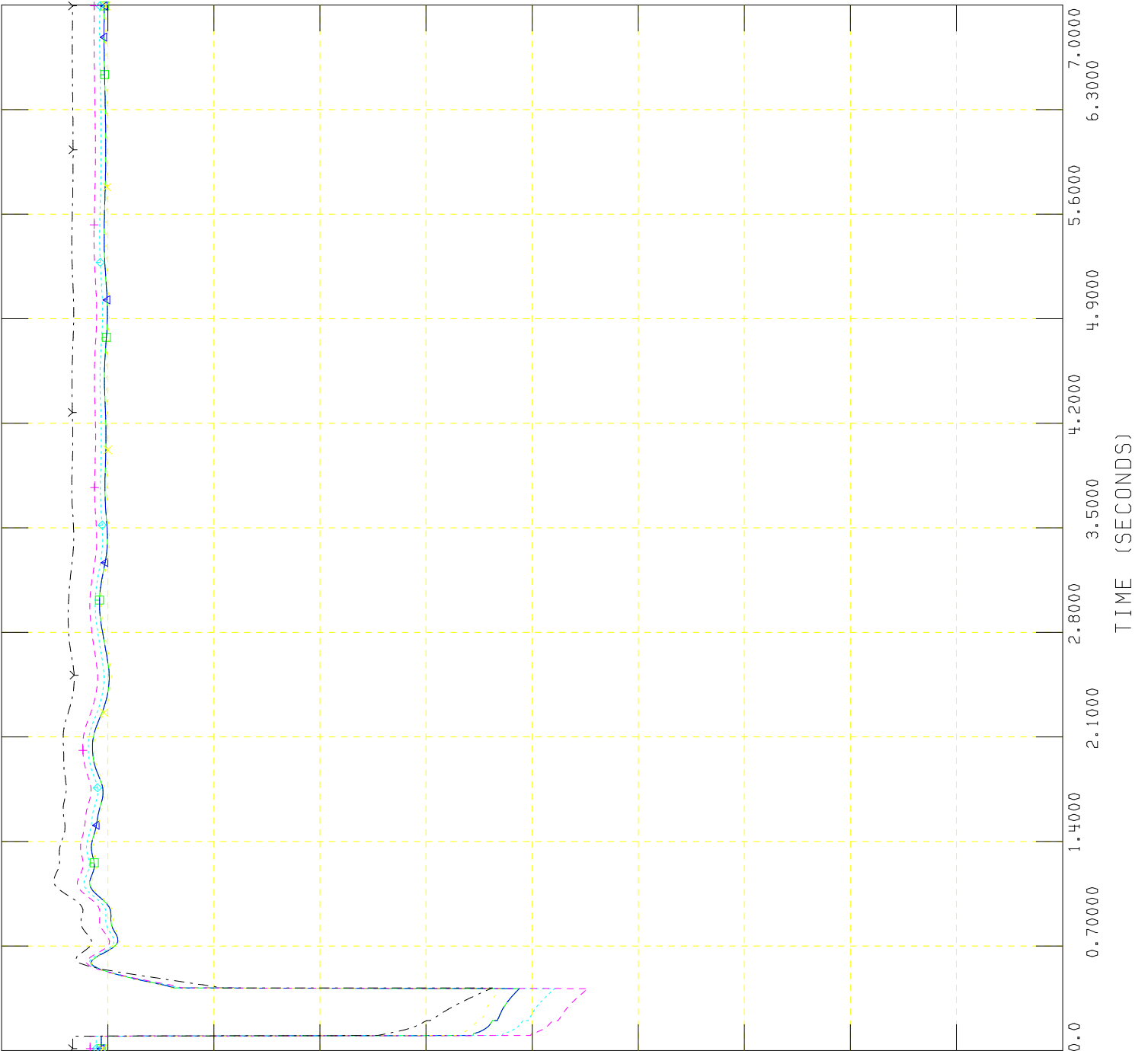
FRI, JUN 13 2008 12:34  
BUS VOLTAGES - 02



LC  
 LC-GENCT1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



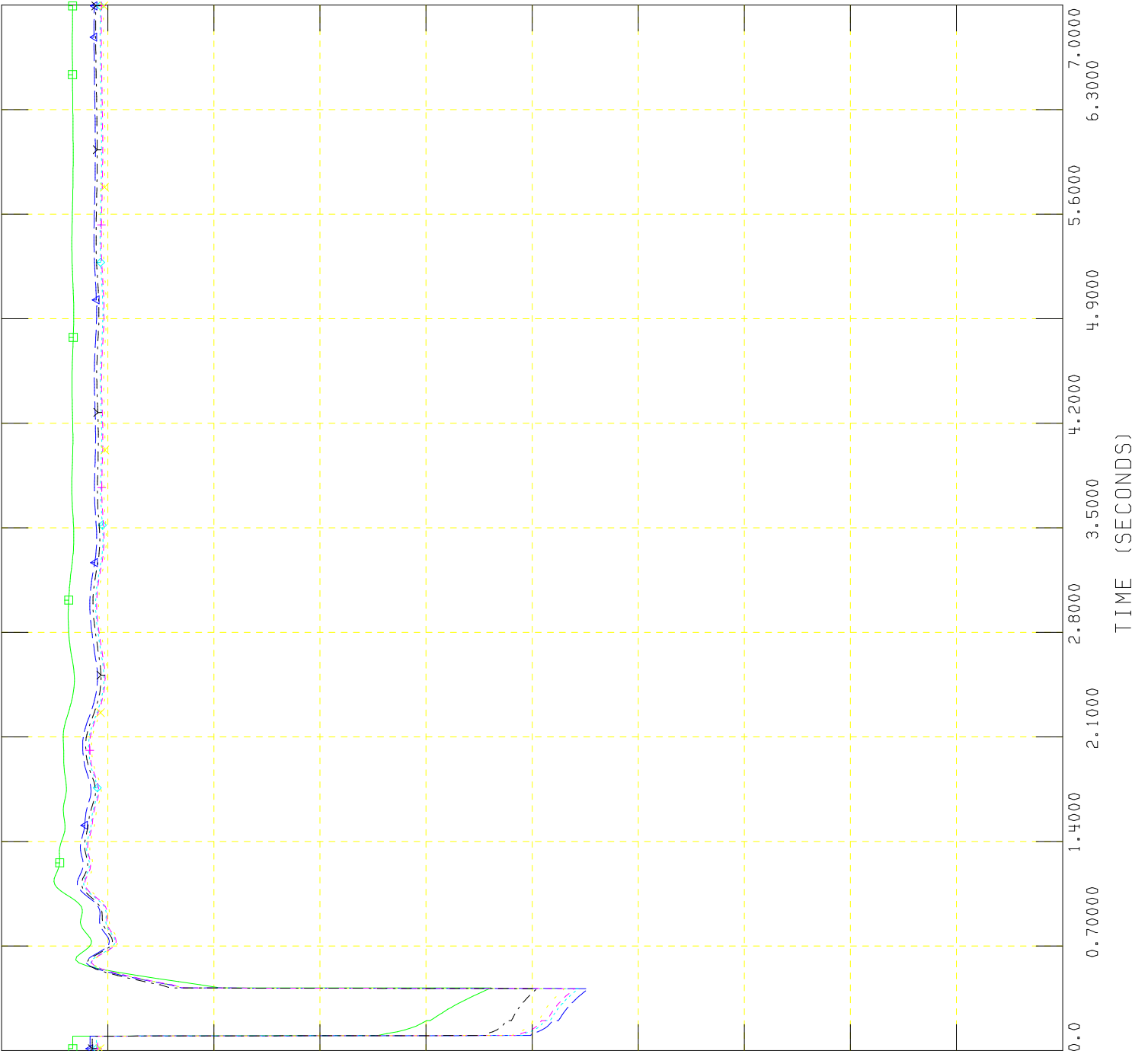
FRI, JUN 13 2008 12:34  
 BUS VOLTAGES - 03



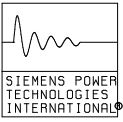
LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



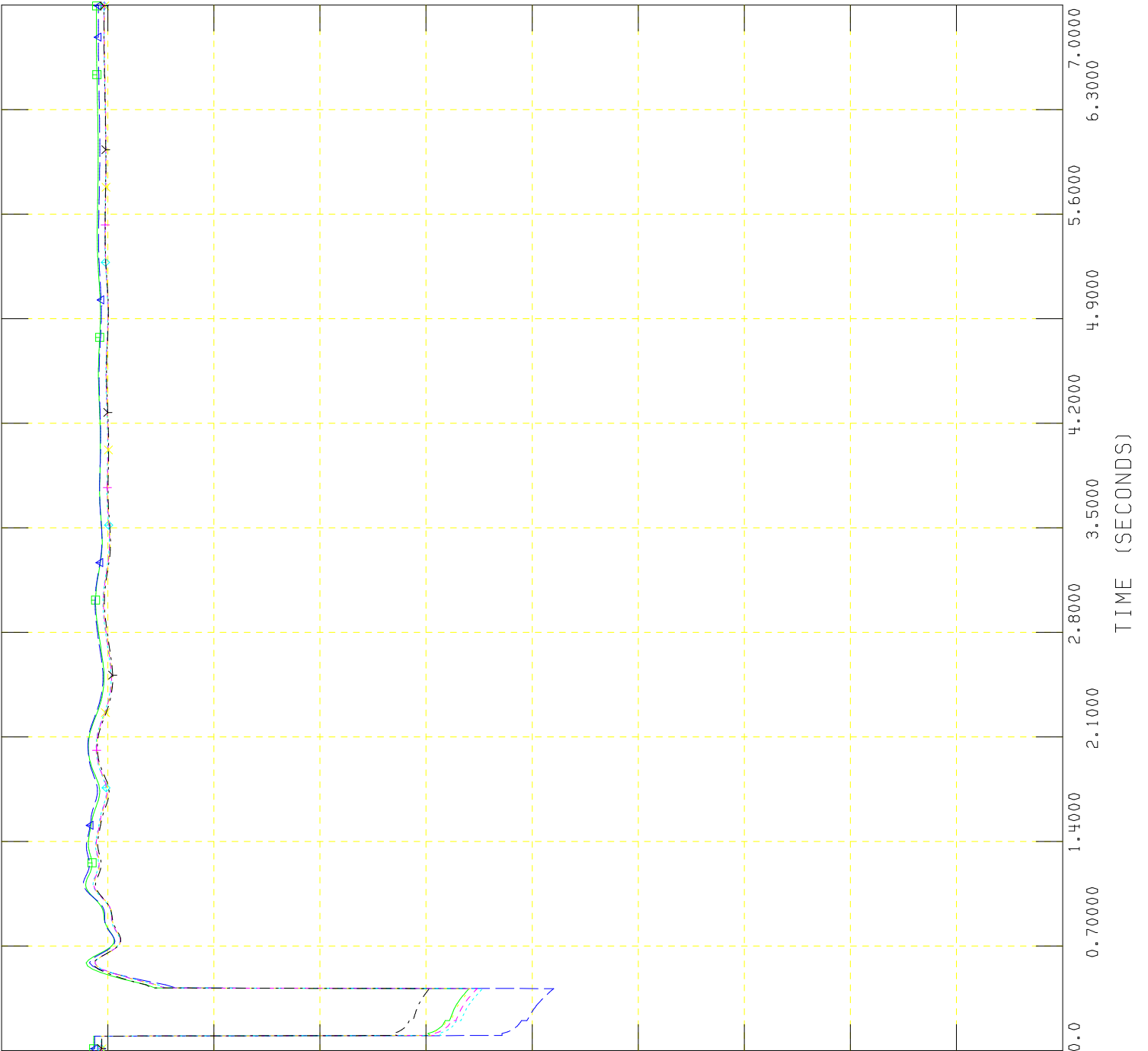
FRI, JUN 13 2008 12:34  
BUS VOLTAGES - 04



LC  
 LC-GENCT1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



FRI, JUN 13 2008 12:34  
 BUS VOLTAGES - 05

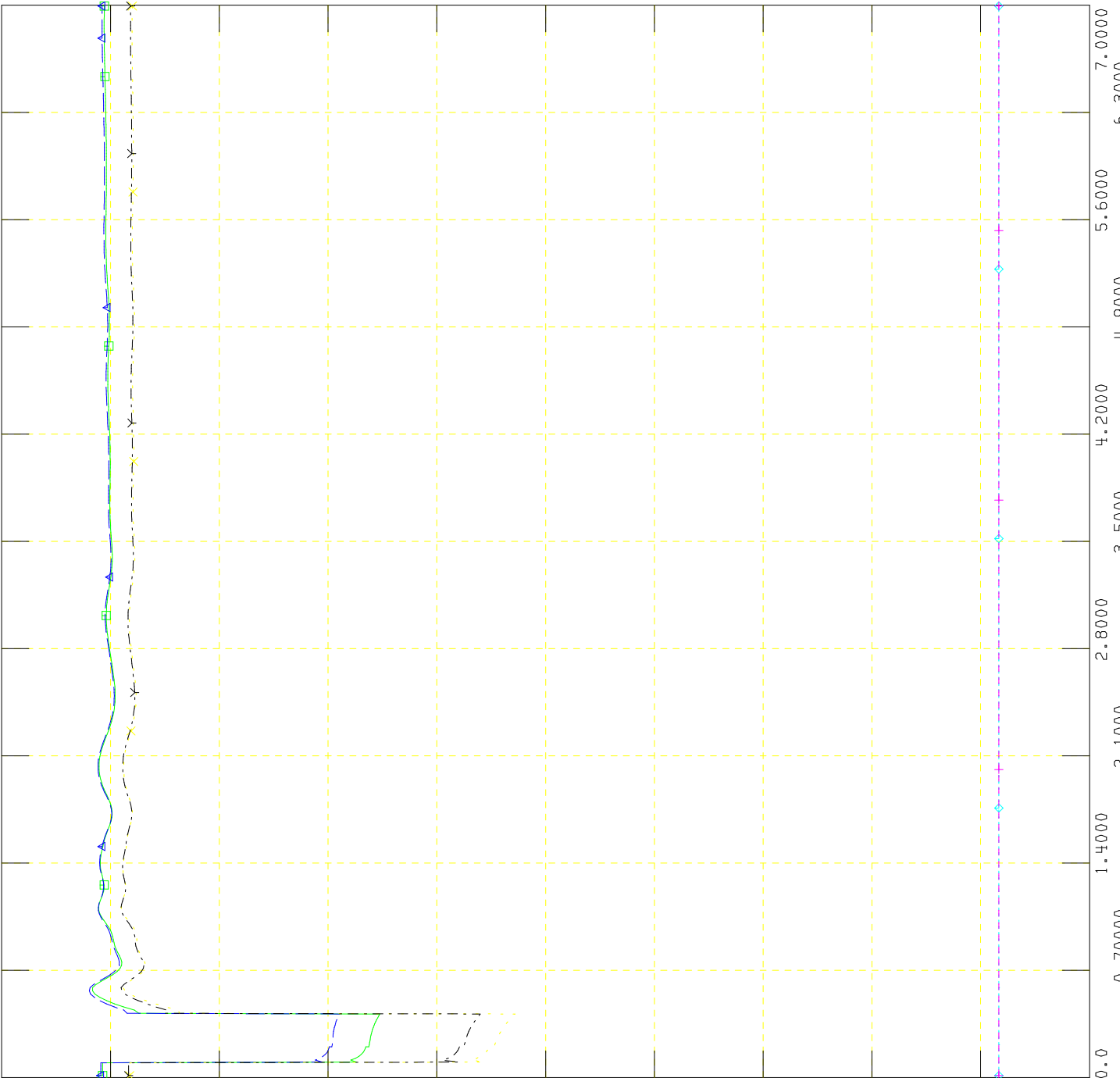




LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



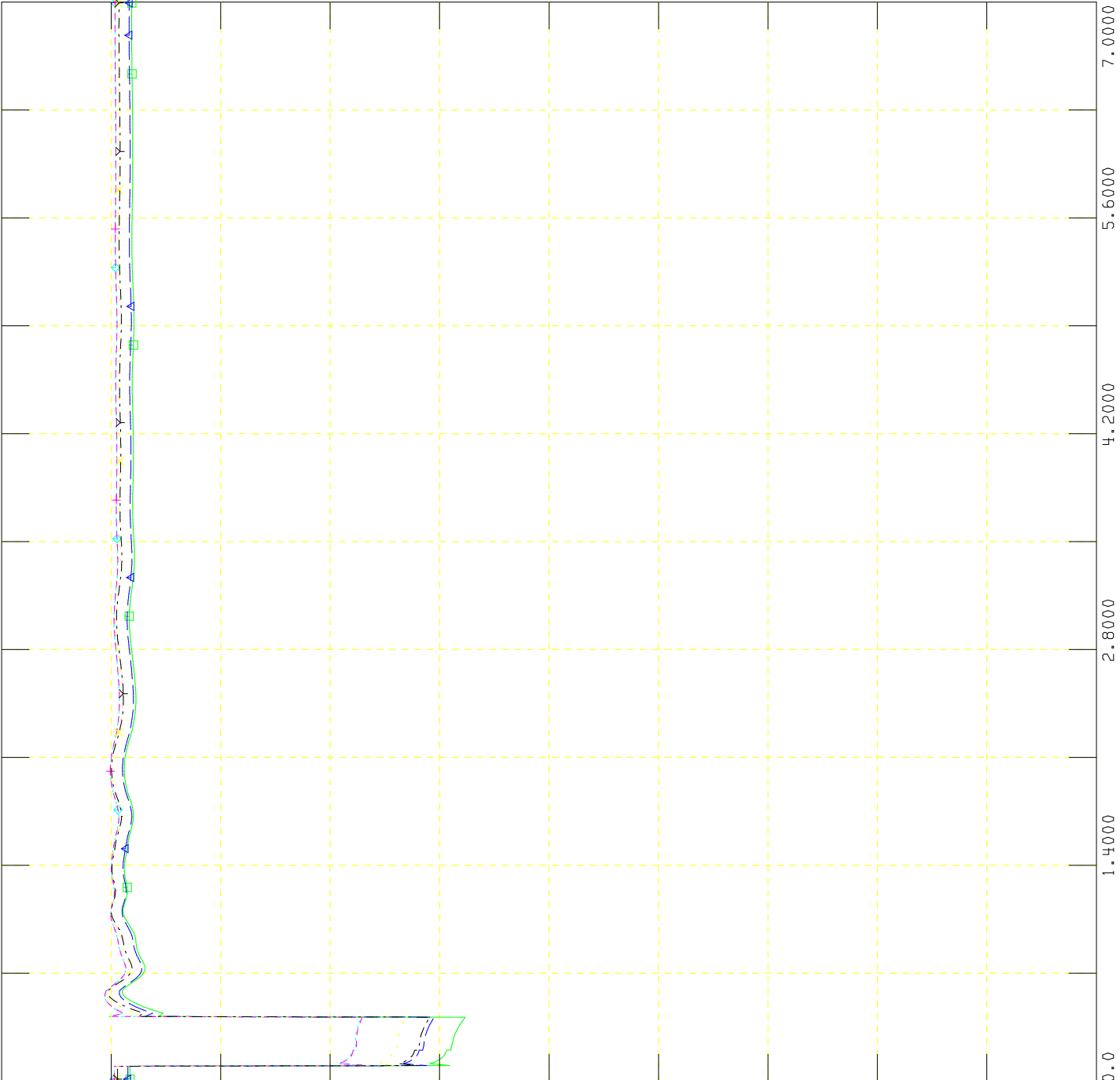
FRI, JUN 13 2008 12:34  
BUS VOLTAGES - 06



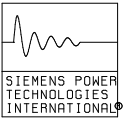
LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



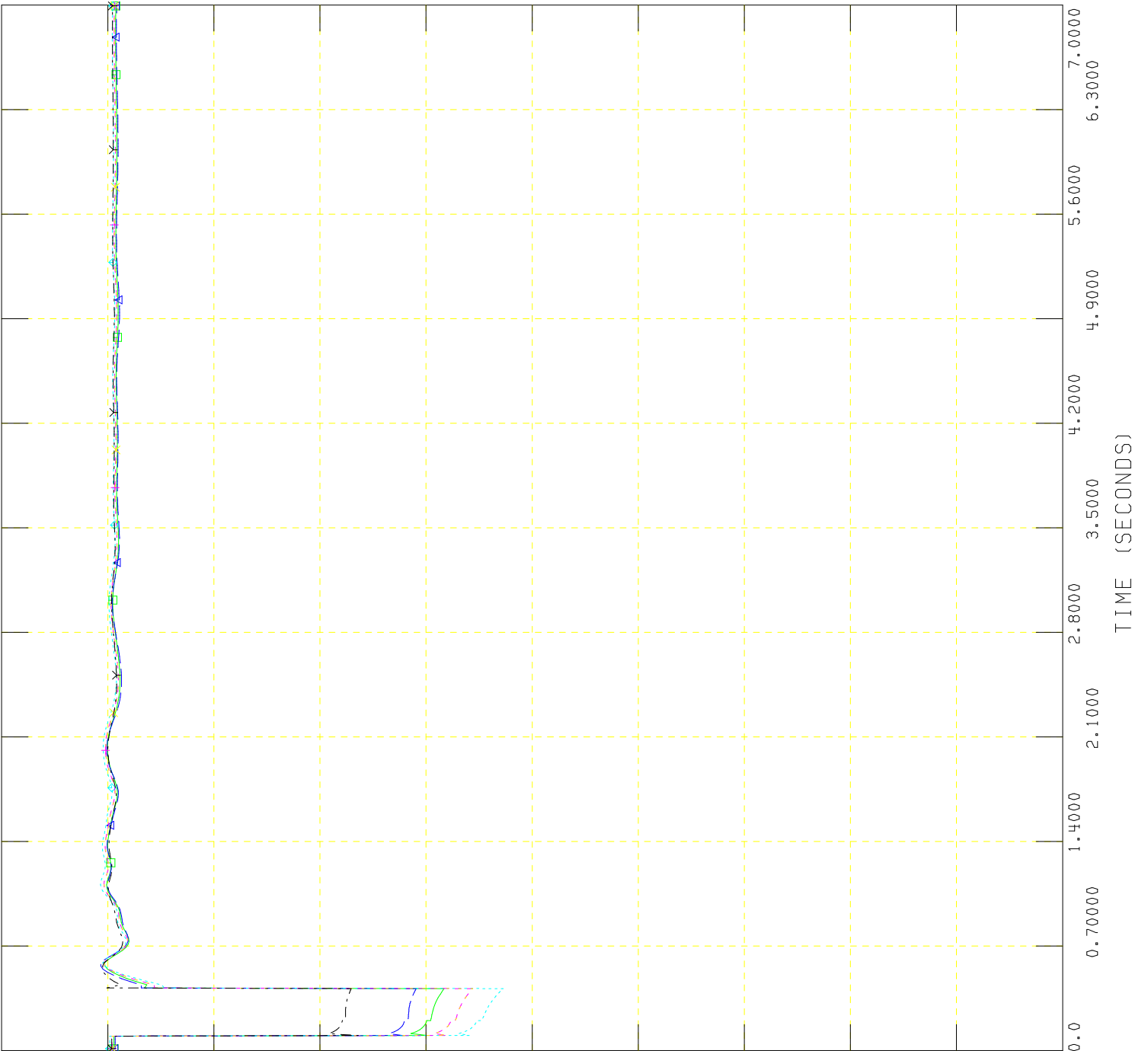
FRI, JUN 13 2008 12:34  
BUS VOLTAGES - 07



LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



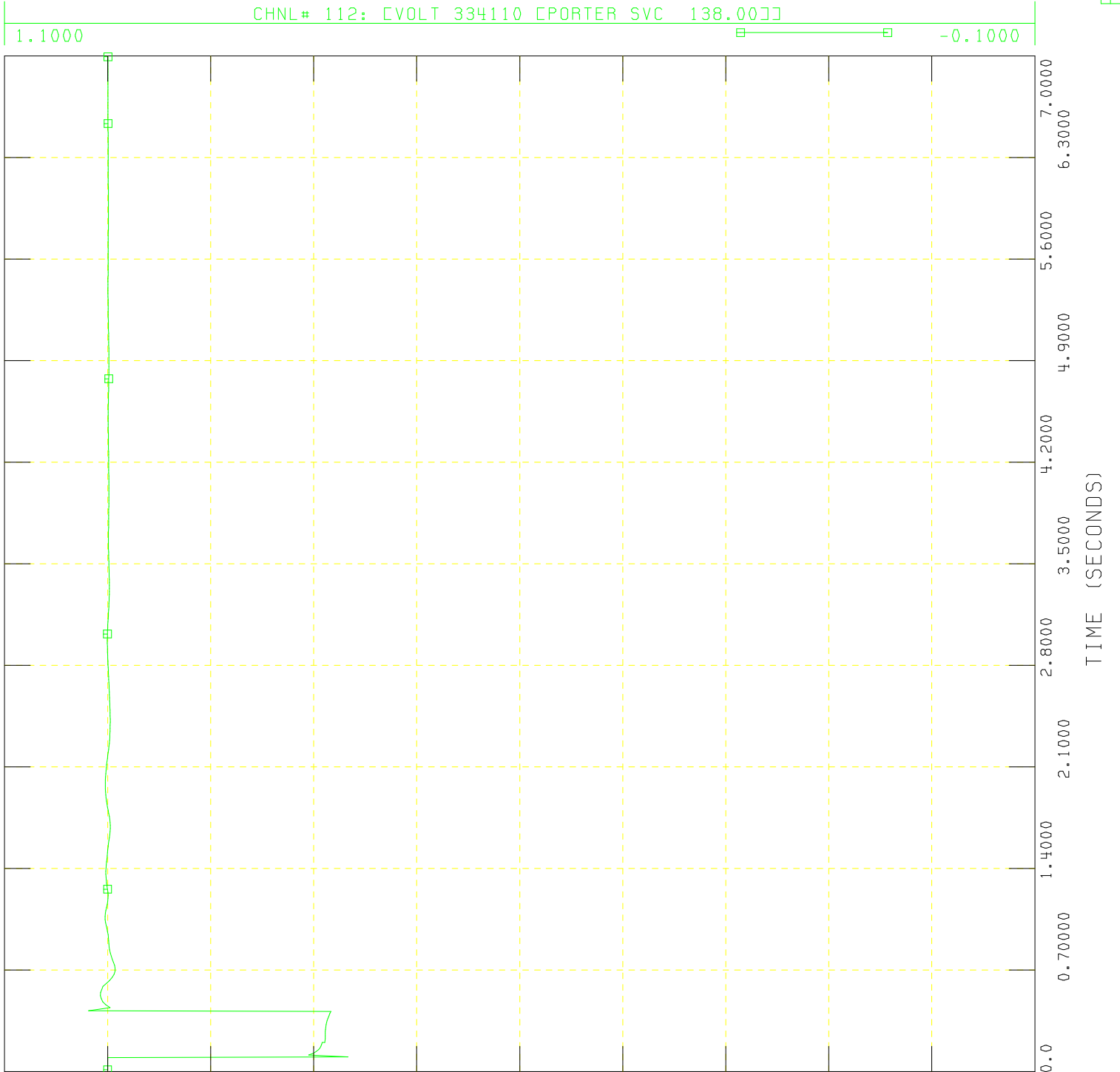
FRI, JUN 13 2008 12:34  
BUS VOLTAGES - 08



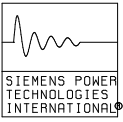
LC  
LC-GENCT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT1-3a.out

FRI, JUN 13 2008 12:34  
BUS VOLTAGES - 09



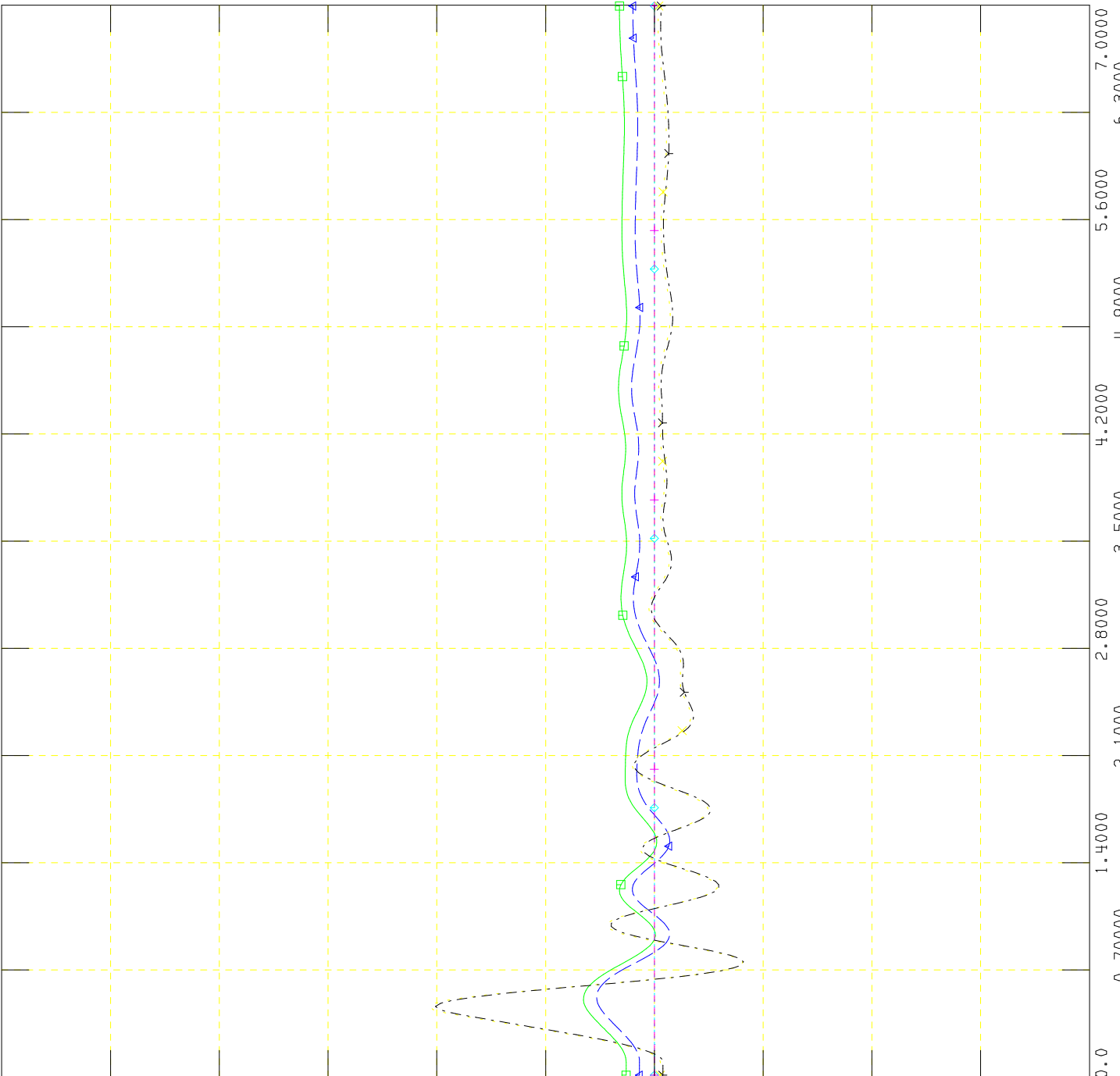
**FAULT G2a**  
**Lewis Creek 138 kV (Drop CT2)**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**



LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

Channel	Label	Value
6	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



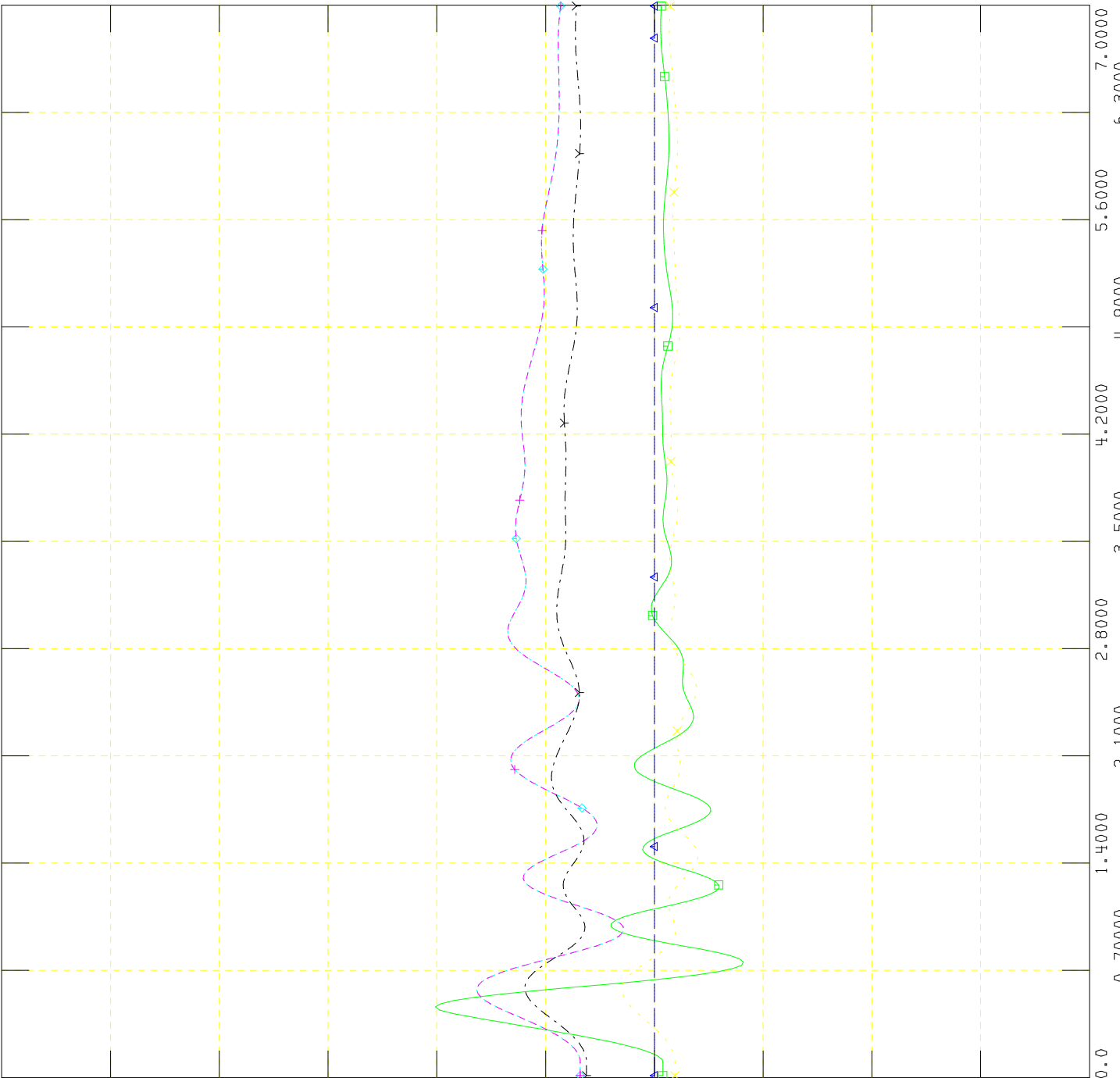
FRI, JUN 13 2008 12:40  
MACHINE ANGLES - 01



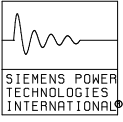
LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

Channel	Label	Value
150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

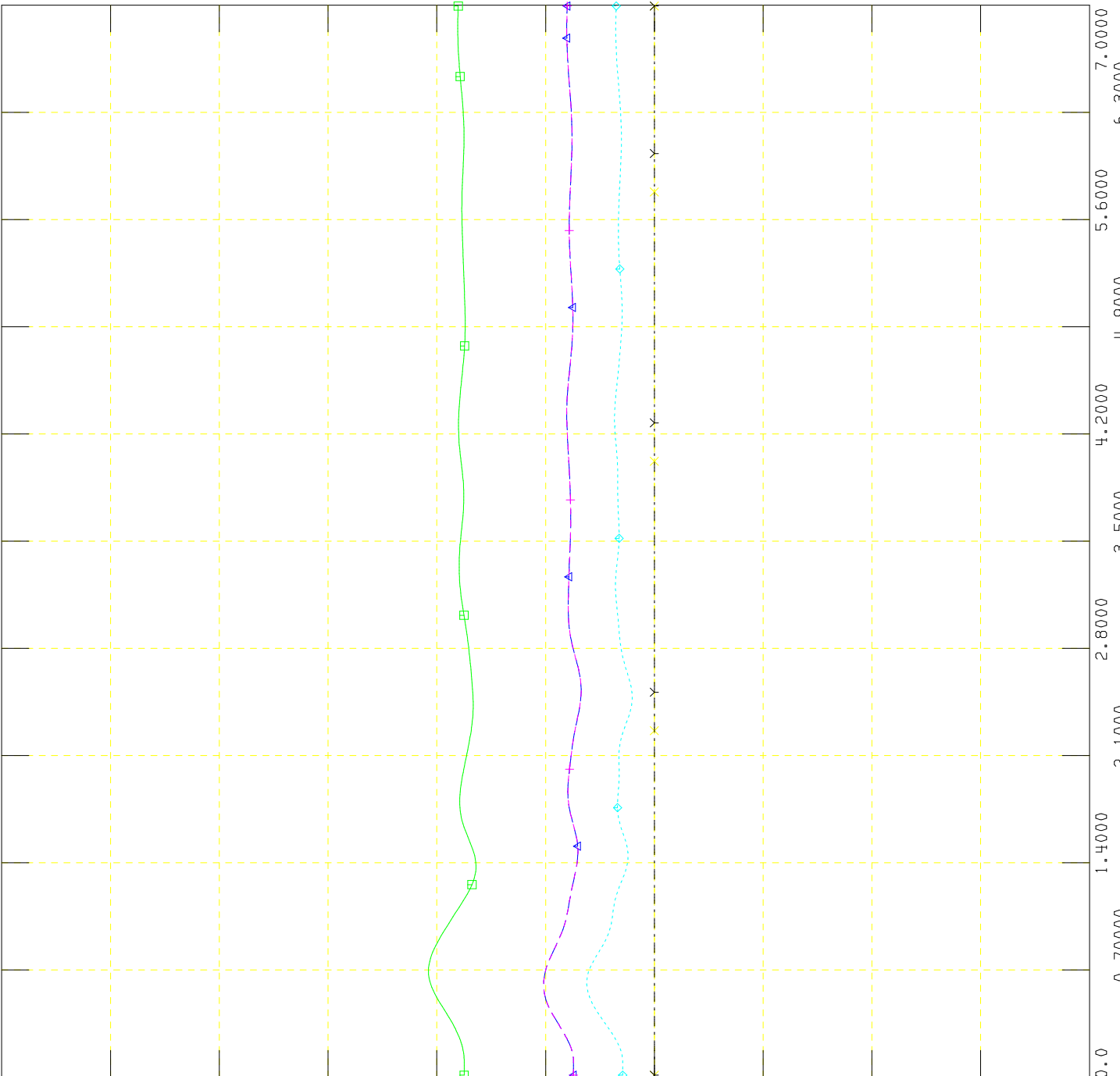
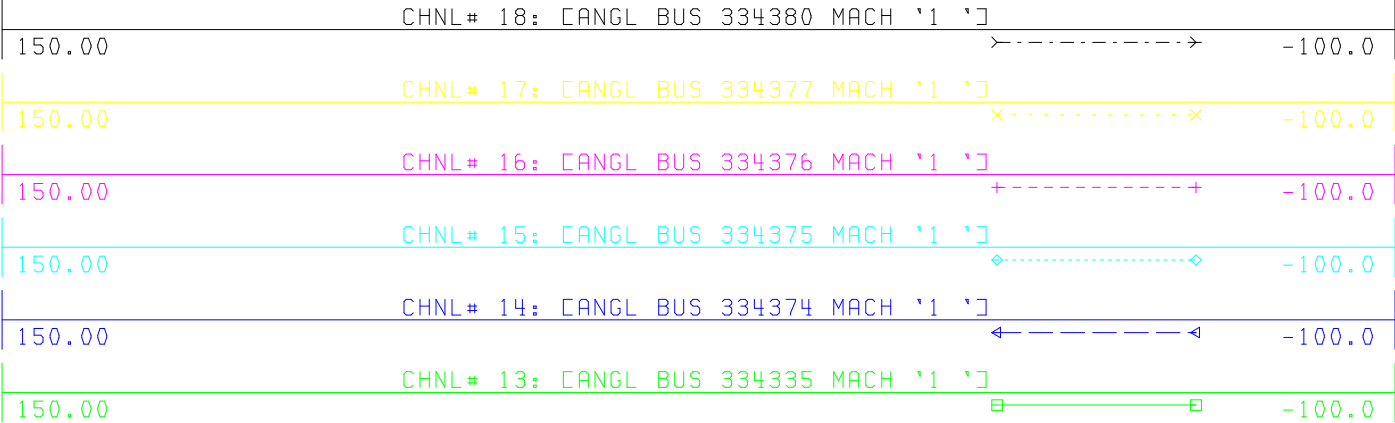


FRI, JUN 13 2008 12:40  
MACHINE ANGLES - 02



LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out



FRI, JUN 13 2008 12:40  
MACHINE ANGLES - 03

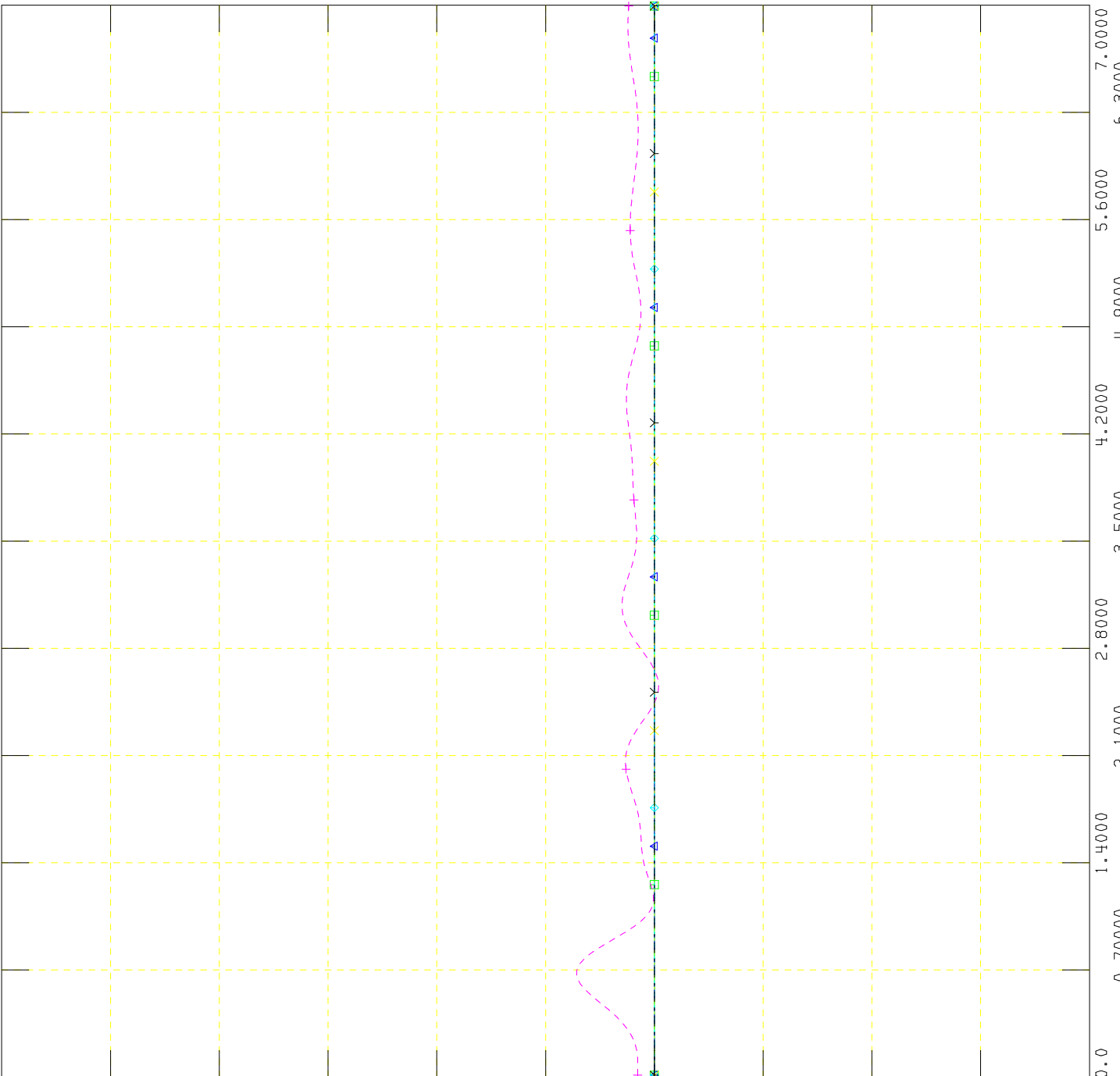




LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0

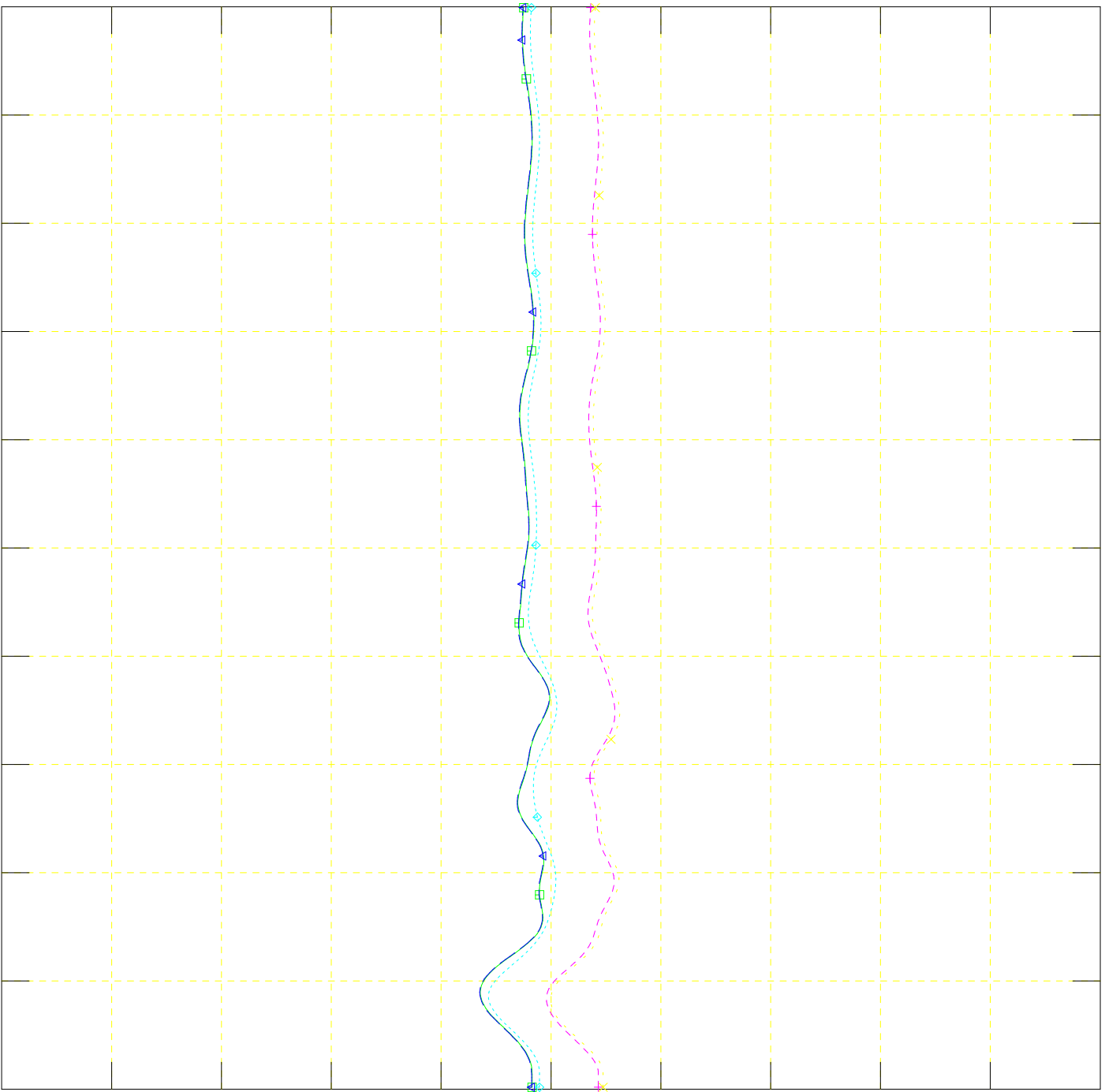
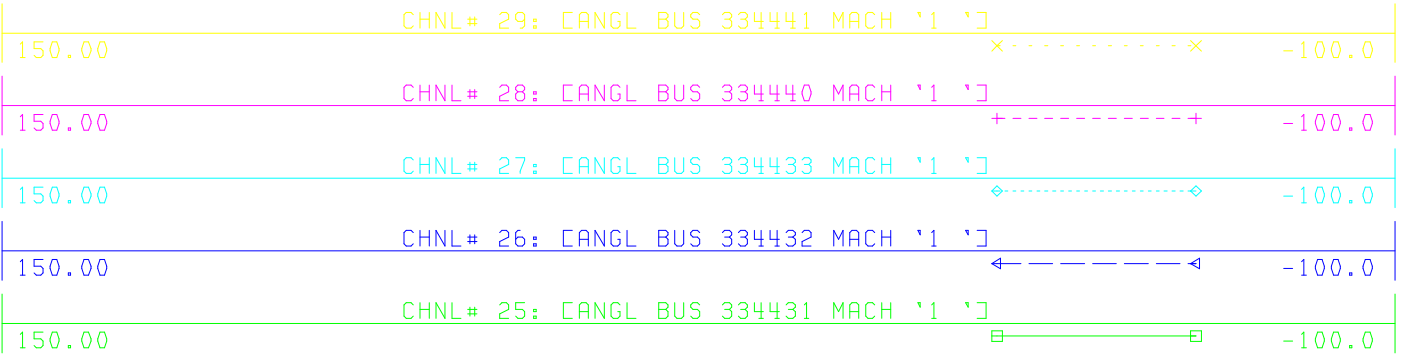


FRI, JUN 13 2008 12:40  
MACHINE ANGLES - 04

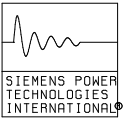


LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out



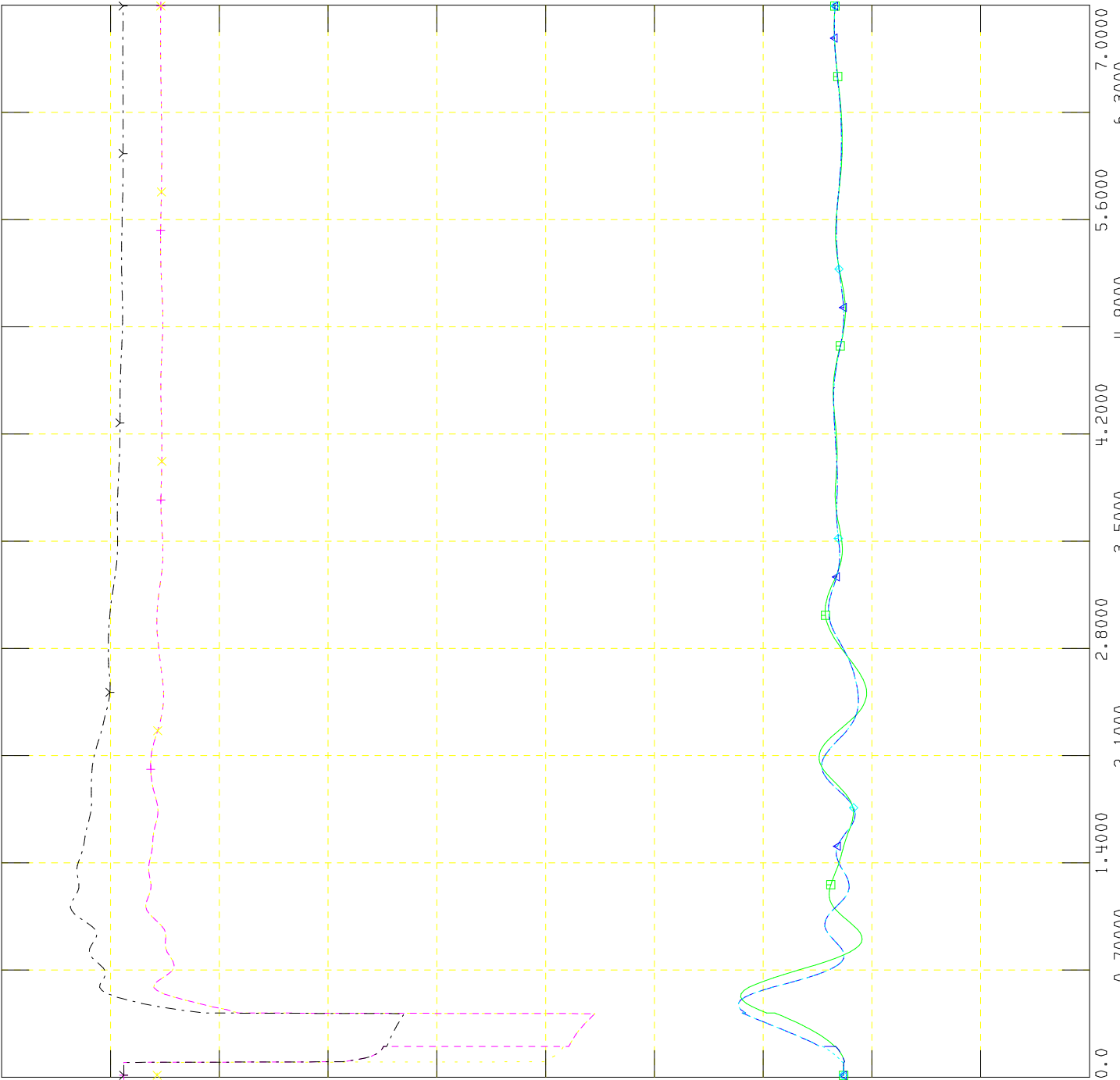
FRI, JUN 13 2008 12:40  
MACHINE ANGLES - 05



LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



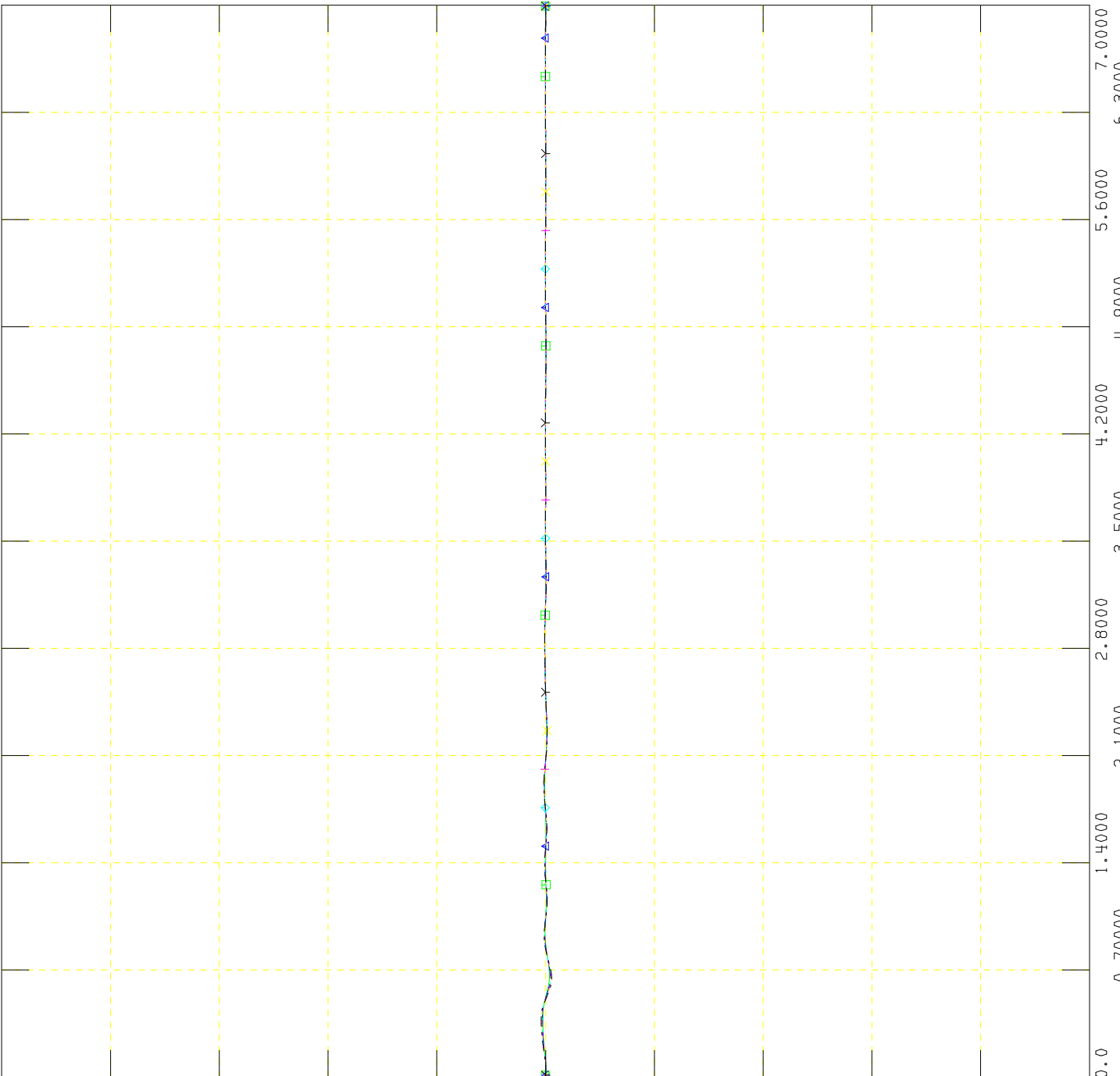
FRI, JUN 13 2008 12:40  
ANG & VOLT - PID-211 GENS



LC  
 LC-GENCT2 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

0.50000	CHNL# 41: [FREQ 334065 [4LACON 138.00]]	-0.50000
0.50000	CHNL# 40: [FREQ 334064 [8LNG 413 138.00]]	-0.50000
0.50000	CHNL# 39: [FREQ 334063 [4EVGRN* 138.00]]	-0.50000
0.50000	CHNL# 38: [FREQ 334062 [4TEMCO 138.00]]	-0.50000
0.50000	CHNL# 37: [FREQ 334061 [4GOREE 138.00]]	-0.50000
0.50000	CHNL# 36: [FREQ 334060 [4MT.ZION 138.00]]	-0.50000



FRI, JUN 13 2008 12:40  
 MACHINE FREQUENCIES - 01

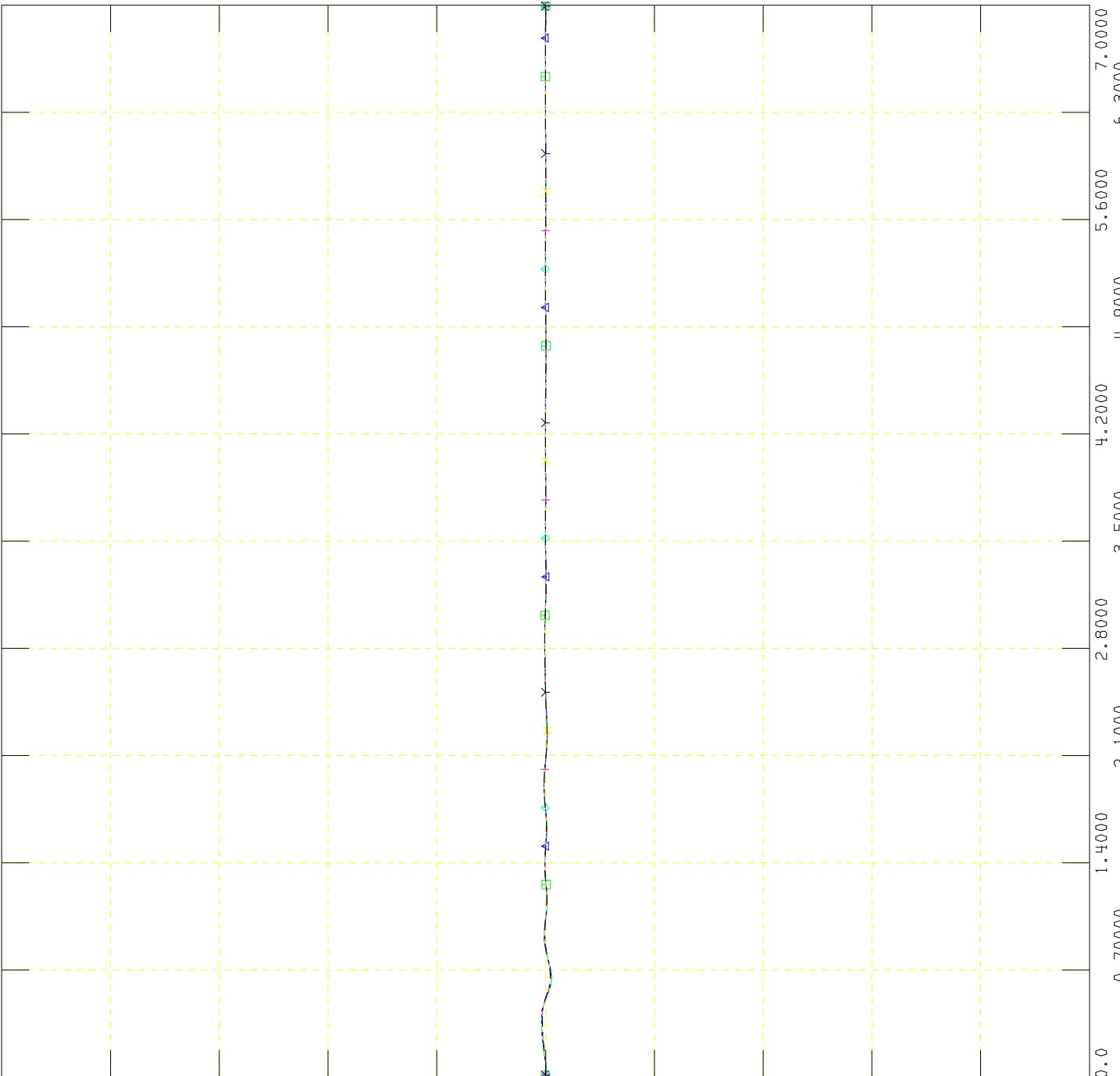
TIME (SECONDS)



LC  
 LC-GENCT2 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

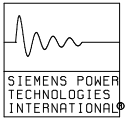
FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



FRI, JUN 13 2008 12:40  
 MACHINE FREQUENCIES - 03

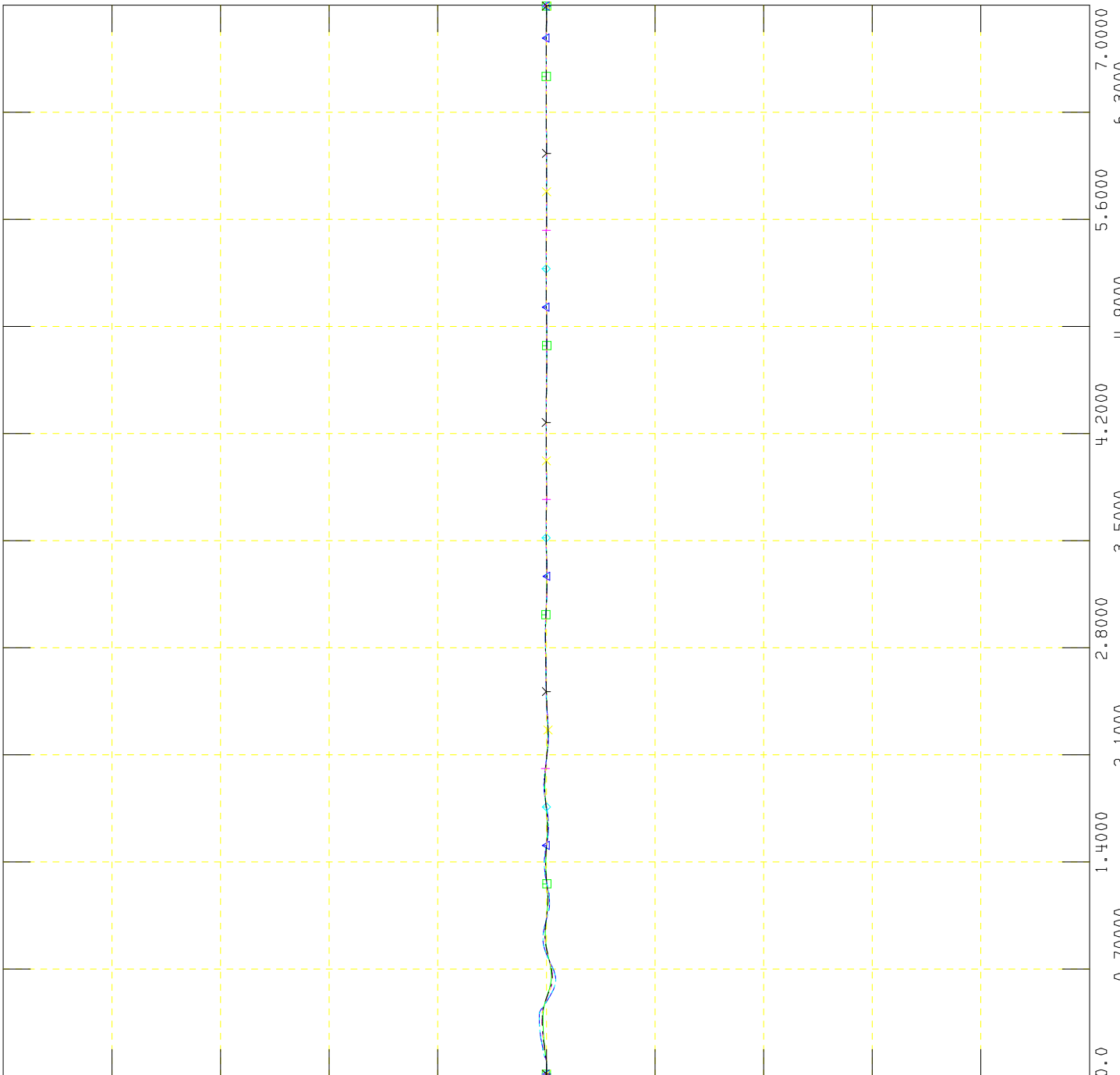
TIME (SECONDS)



LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



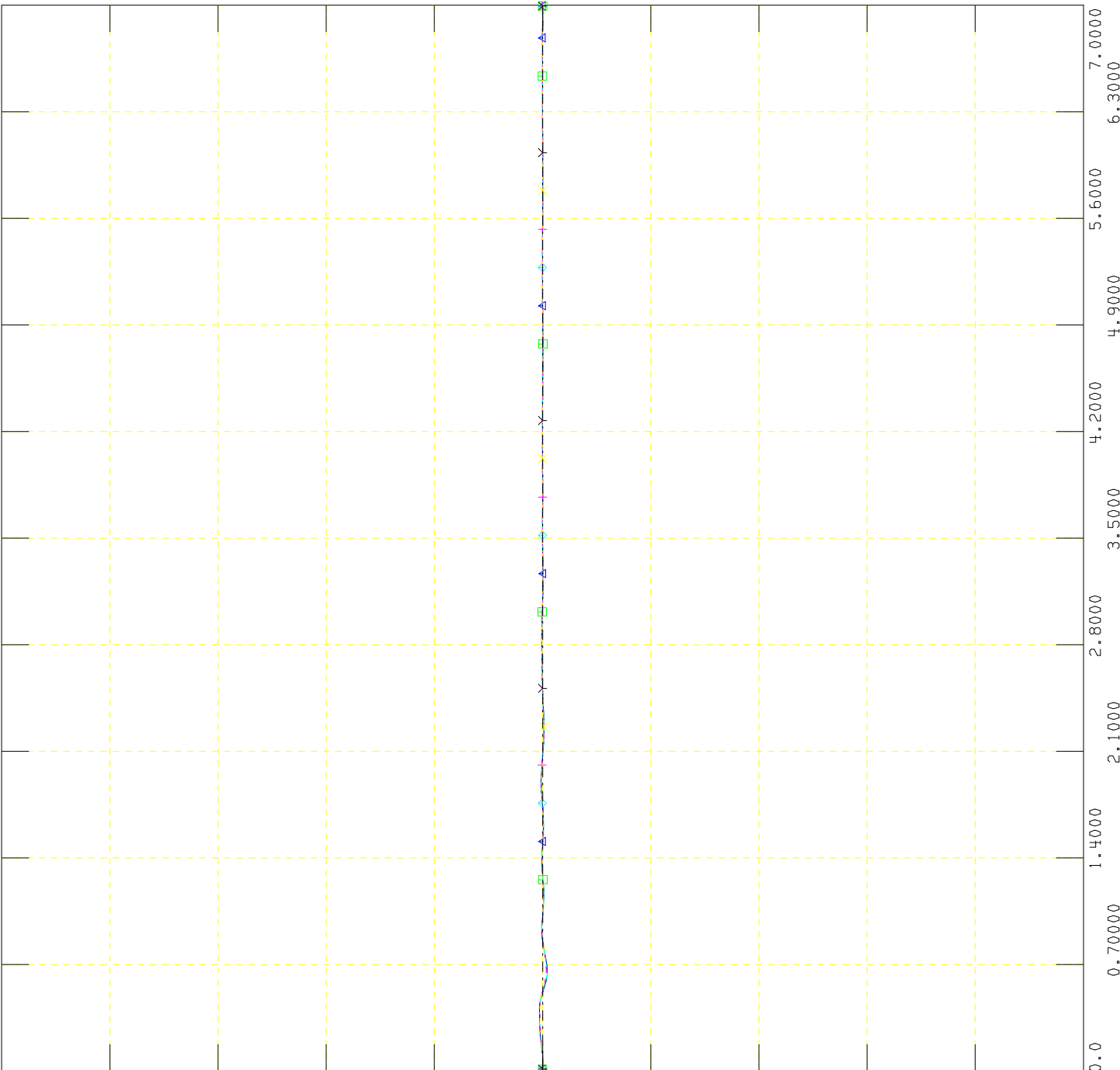
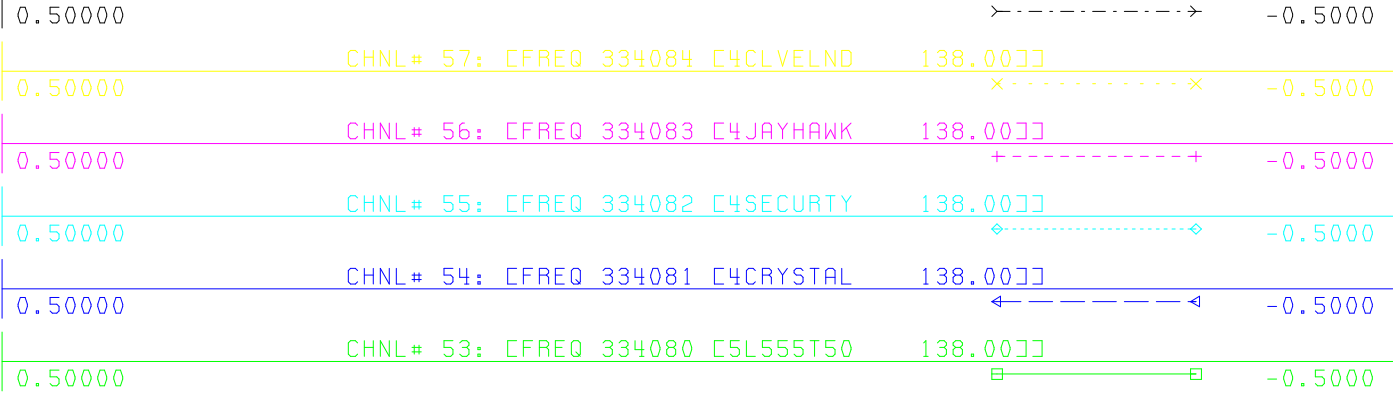
FRI, JUN 13 2008 12:40  
MACHINE FREQUENCIES - 02



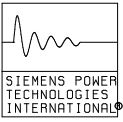
LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



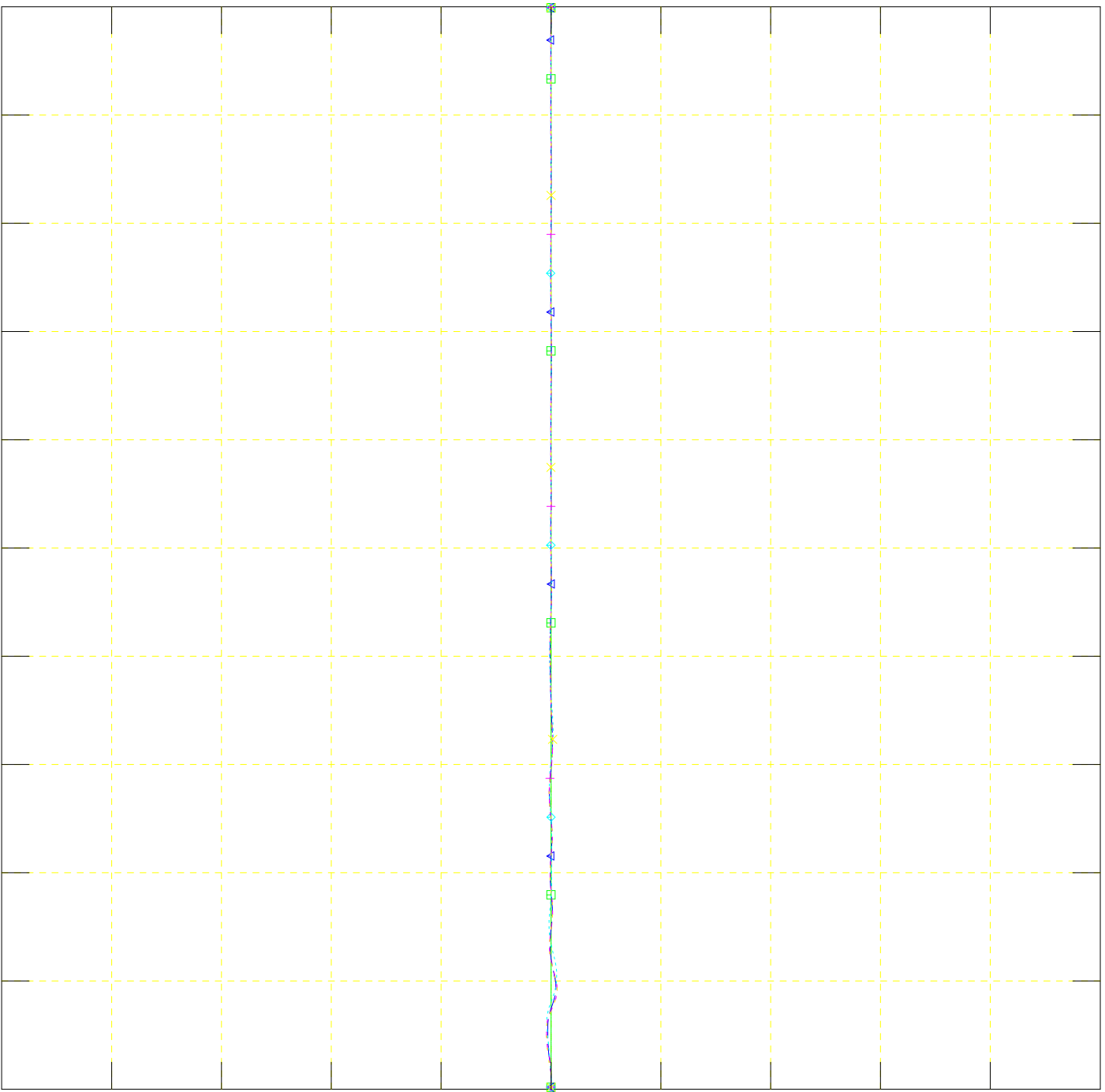
FRI, JUN 13 2008 12:40  
MACHINE FREQUENCIES - 04



LC  
 LC-GENCT2 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

0.50000	CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	x-----x	-0.50000
0.50000	CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	+-----+	-0.50000
0.50000	CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	◇-----◇	-0.50000
0.50000	CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	←-----←	-0.50000
0.50000	CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	▣-----▣	-0.50000



FRI, JUN 13 2008 12:40  
 MACHINE FREQUENCIES - 05

TIME (SECONDS)

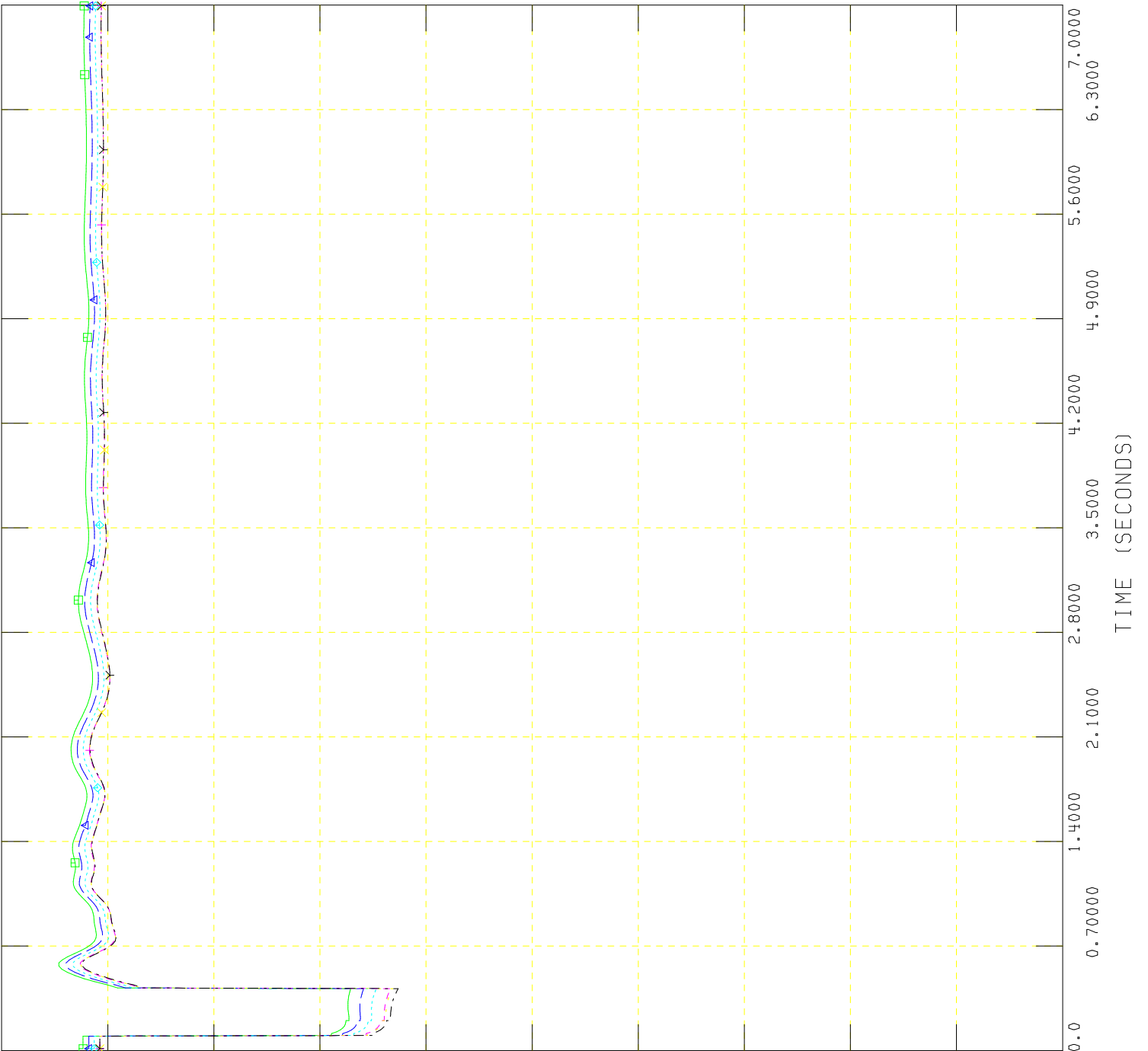




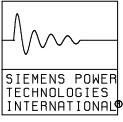
LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



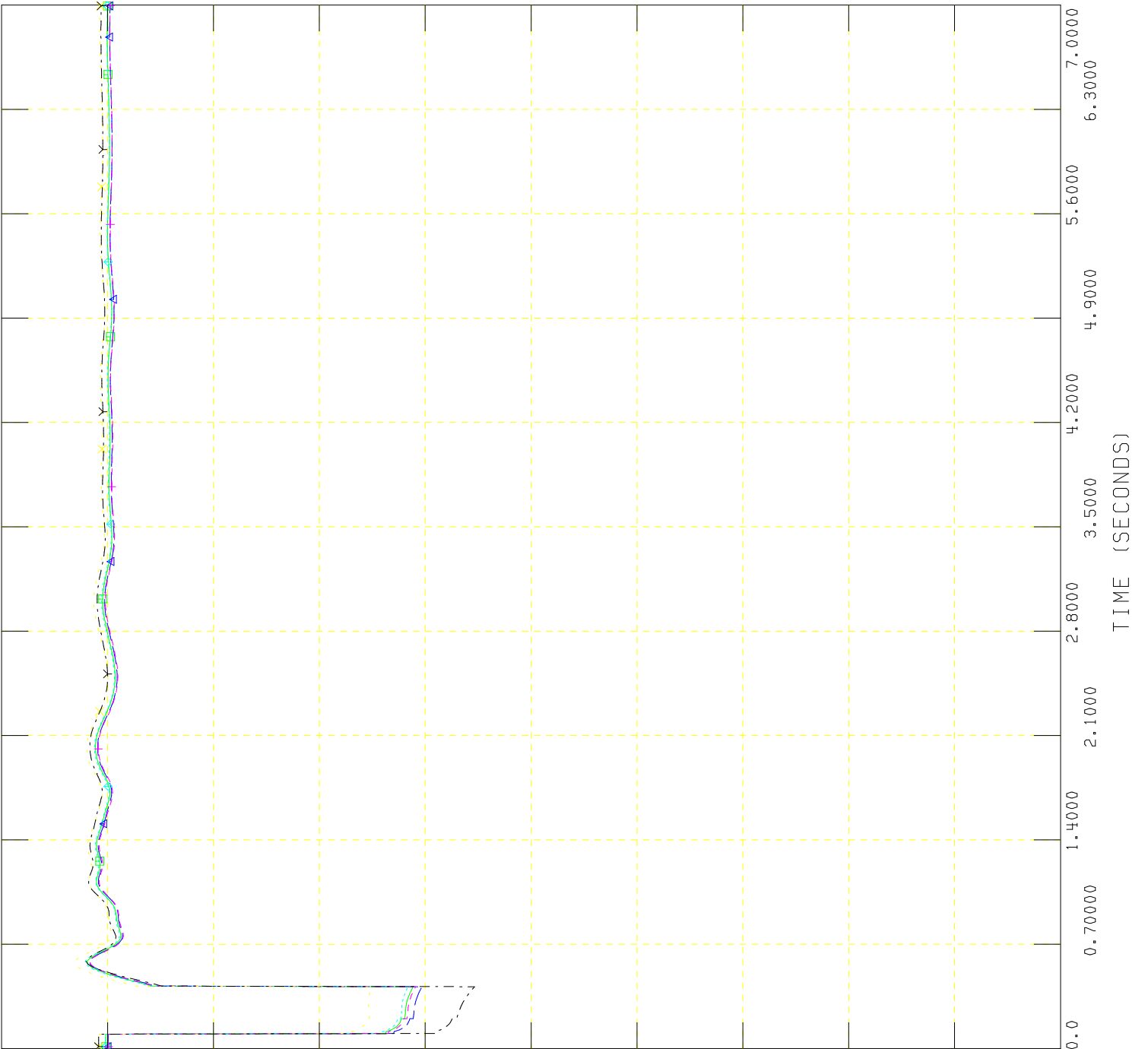
FRI, JUN 13 2008 12:40  
BUS VOLTAGES - 01



LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



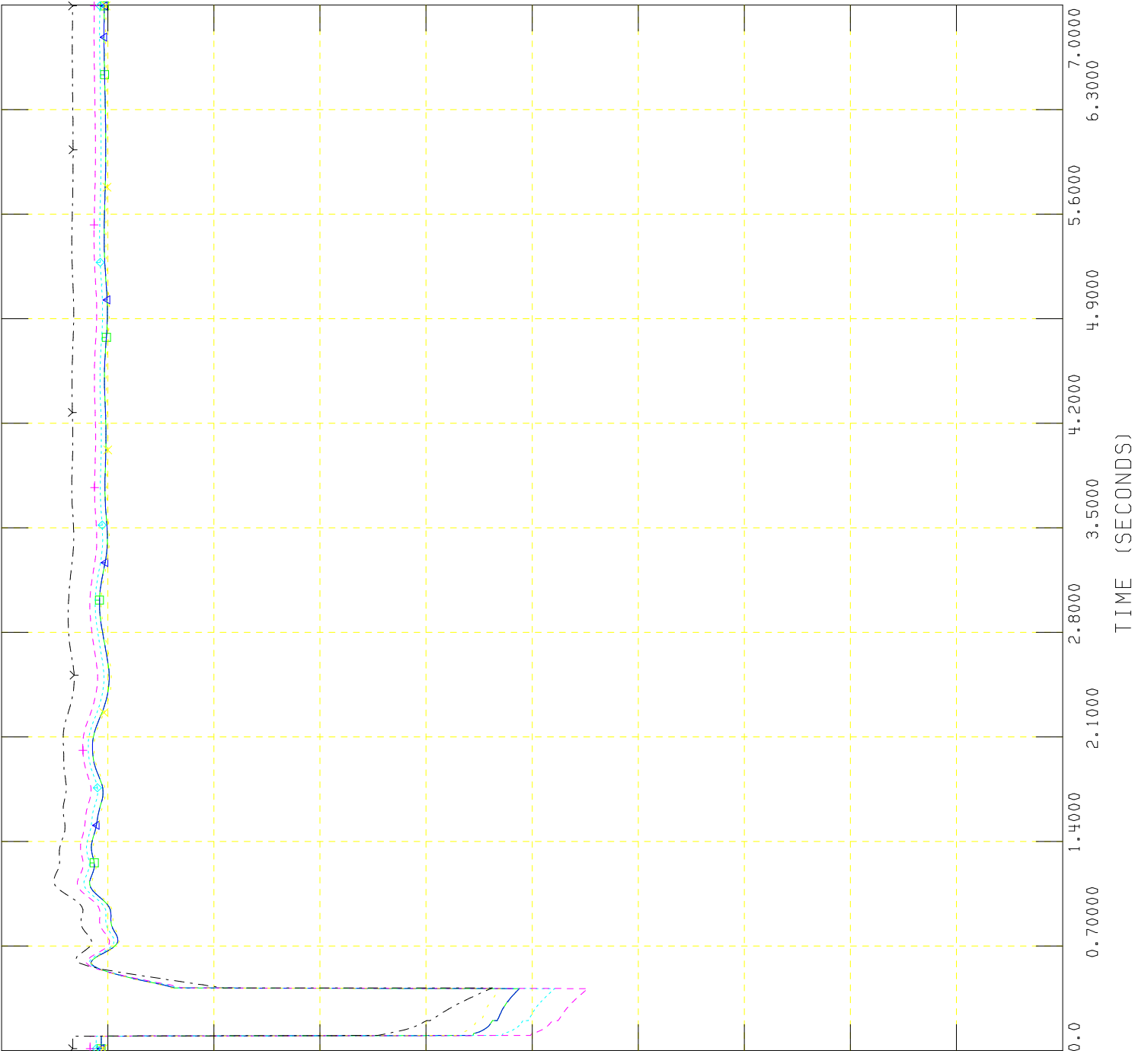
FRI, JUN 13 2008 12:40  
BUS VOLTAGES - 02



LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



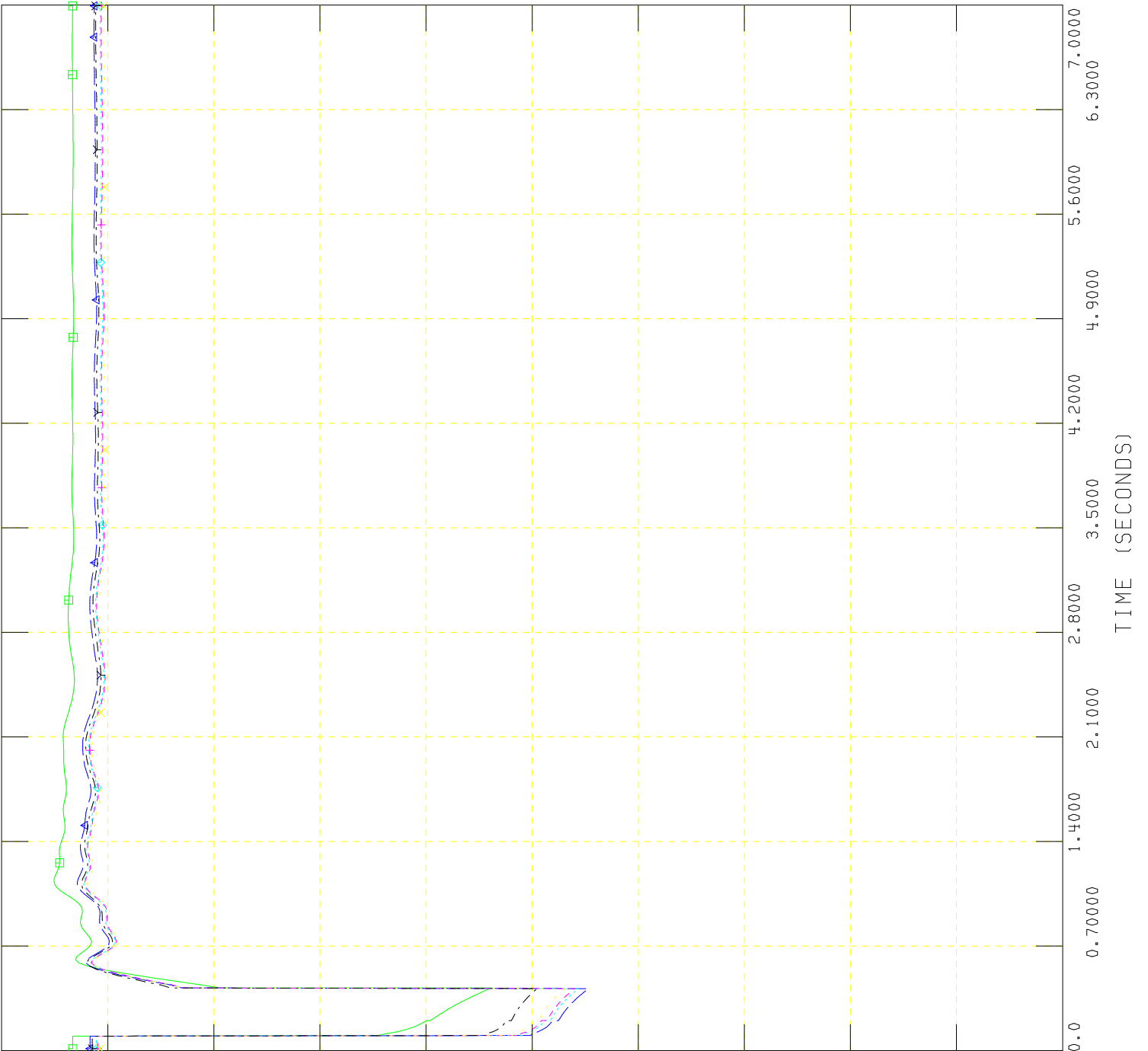
FRI, JUN 13 2008 12:40  
BUS VOLTAGES - 03



LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



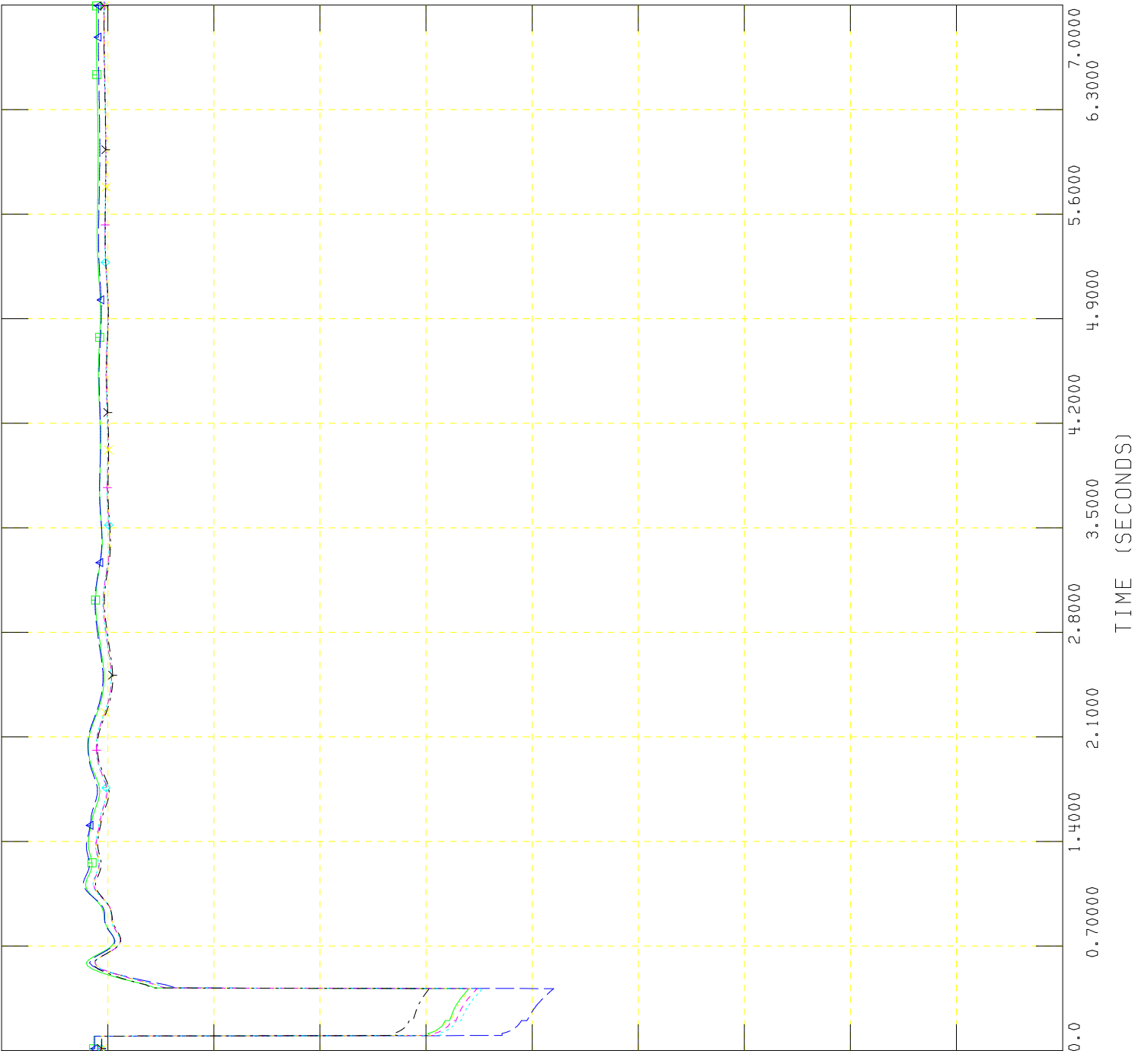
FRI, JUN 13 2008 12:40  
BUS VOLTAGES - 04



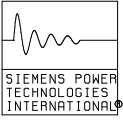
LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



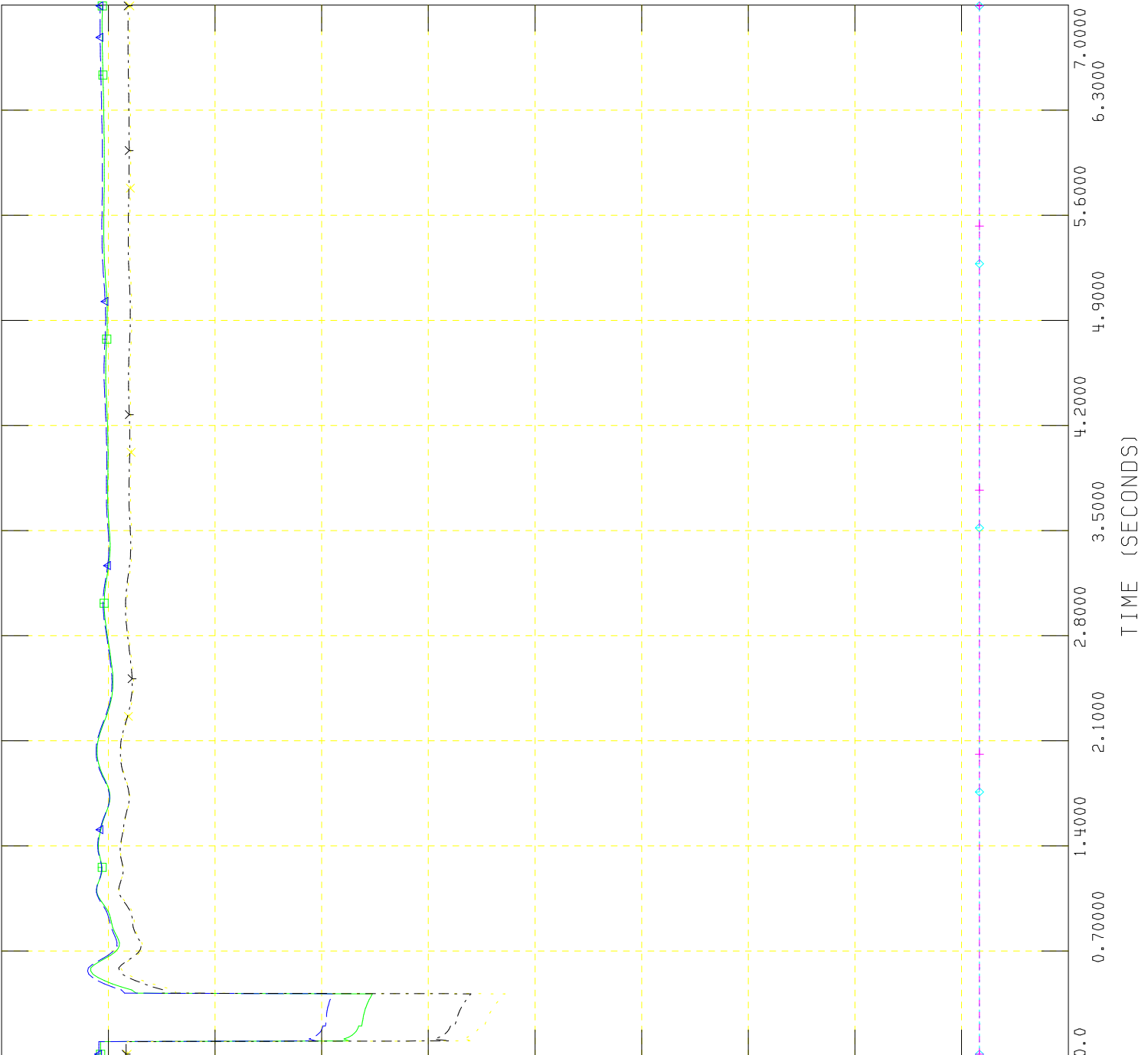
FRI, JUN 13 2008 12:40  
BUS VOLTAGES - 05



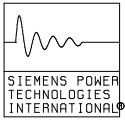
LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



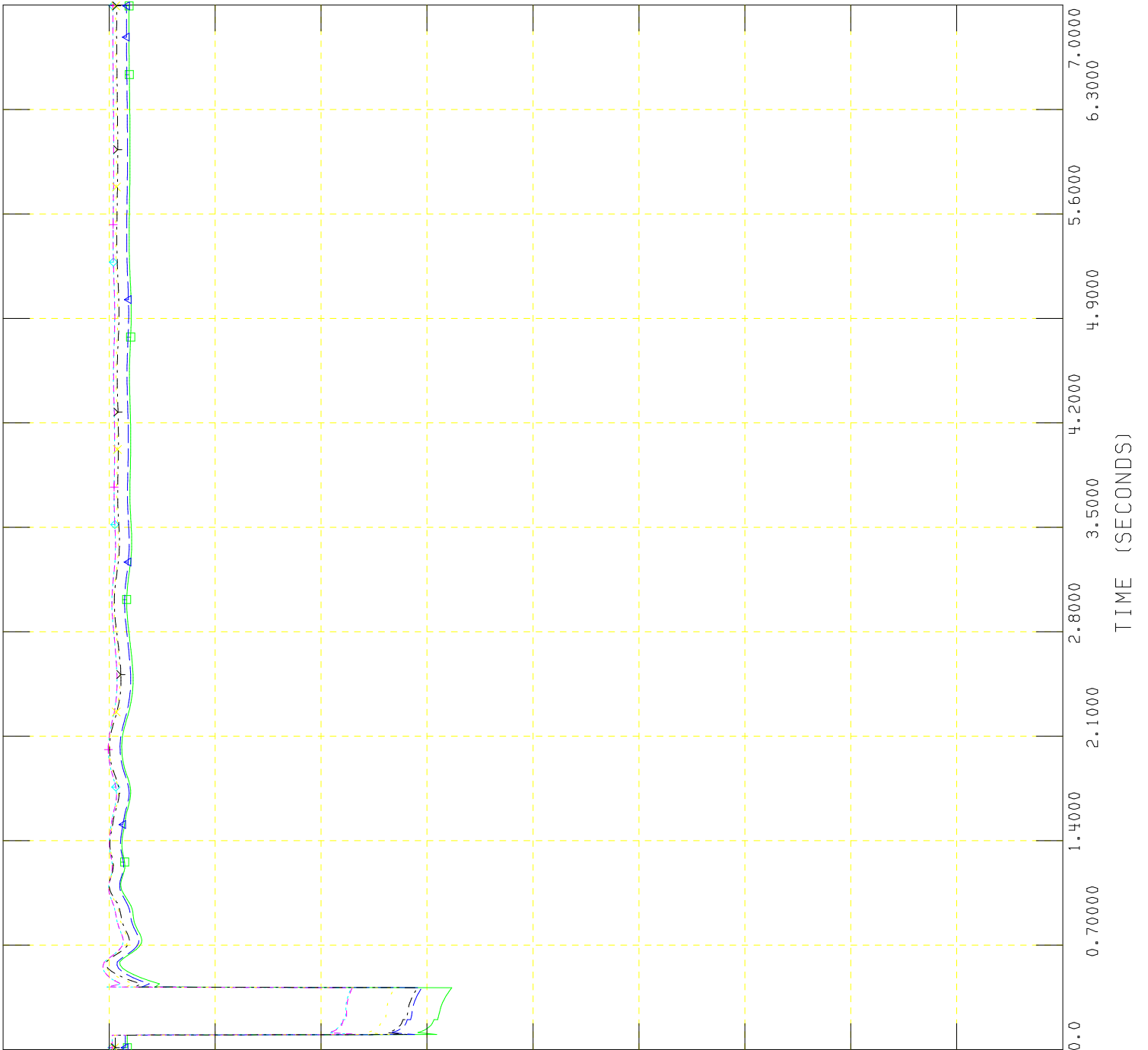
FRI, JUN 13 2008 12:40  
BUS VOLTAGES - 06



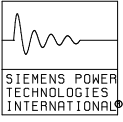
LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



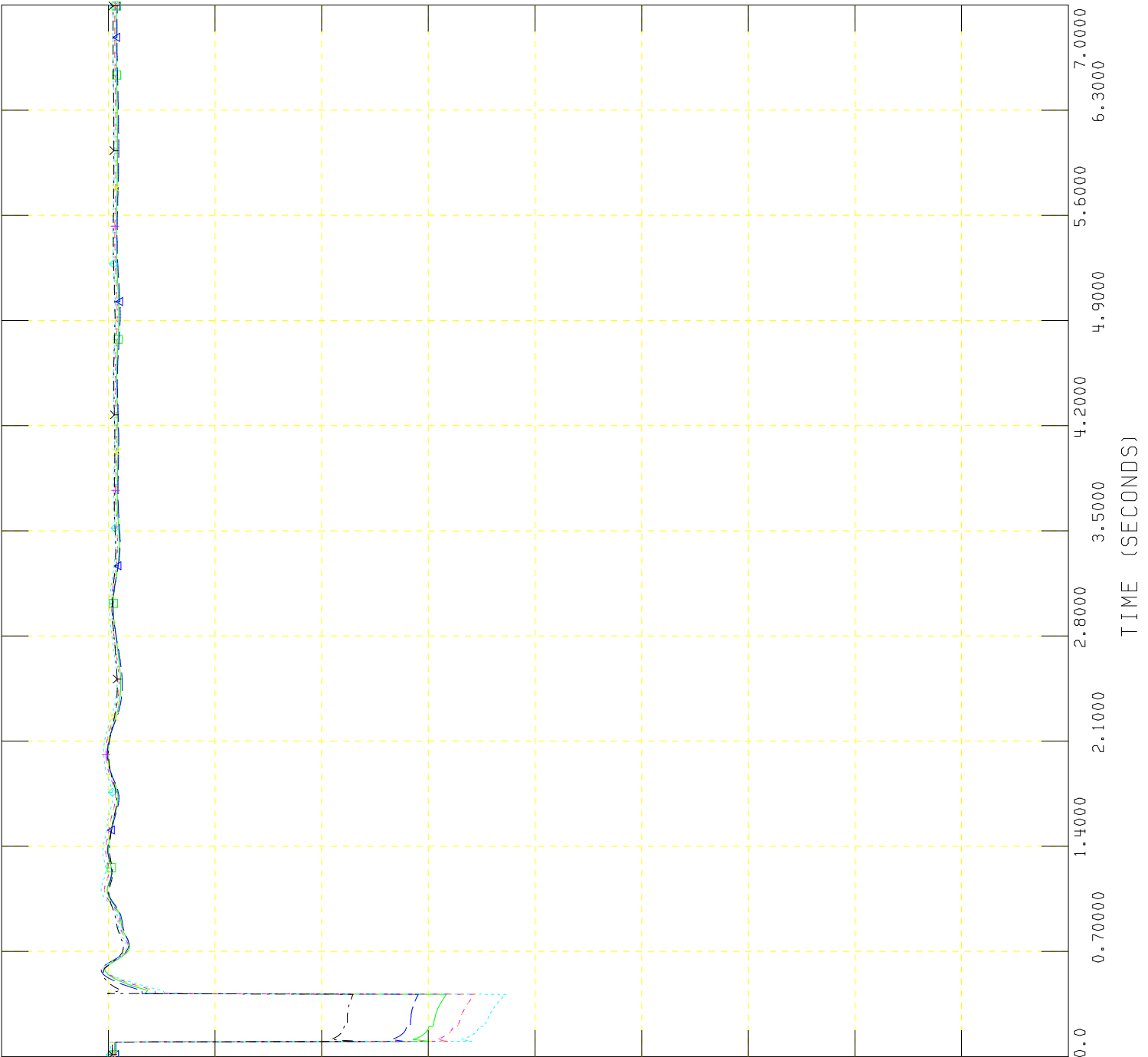
FRI, JUN 13 2008 12:40  
BUS VOLTAGES - 07



LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



FRI, JUN 13 2008 12:40  
BUS VOLTAGES - 08

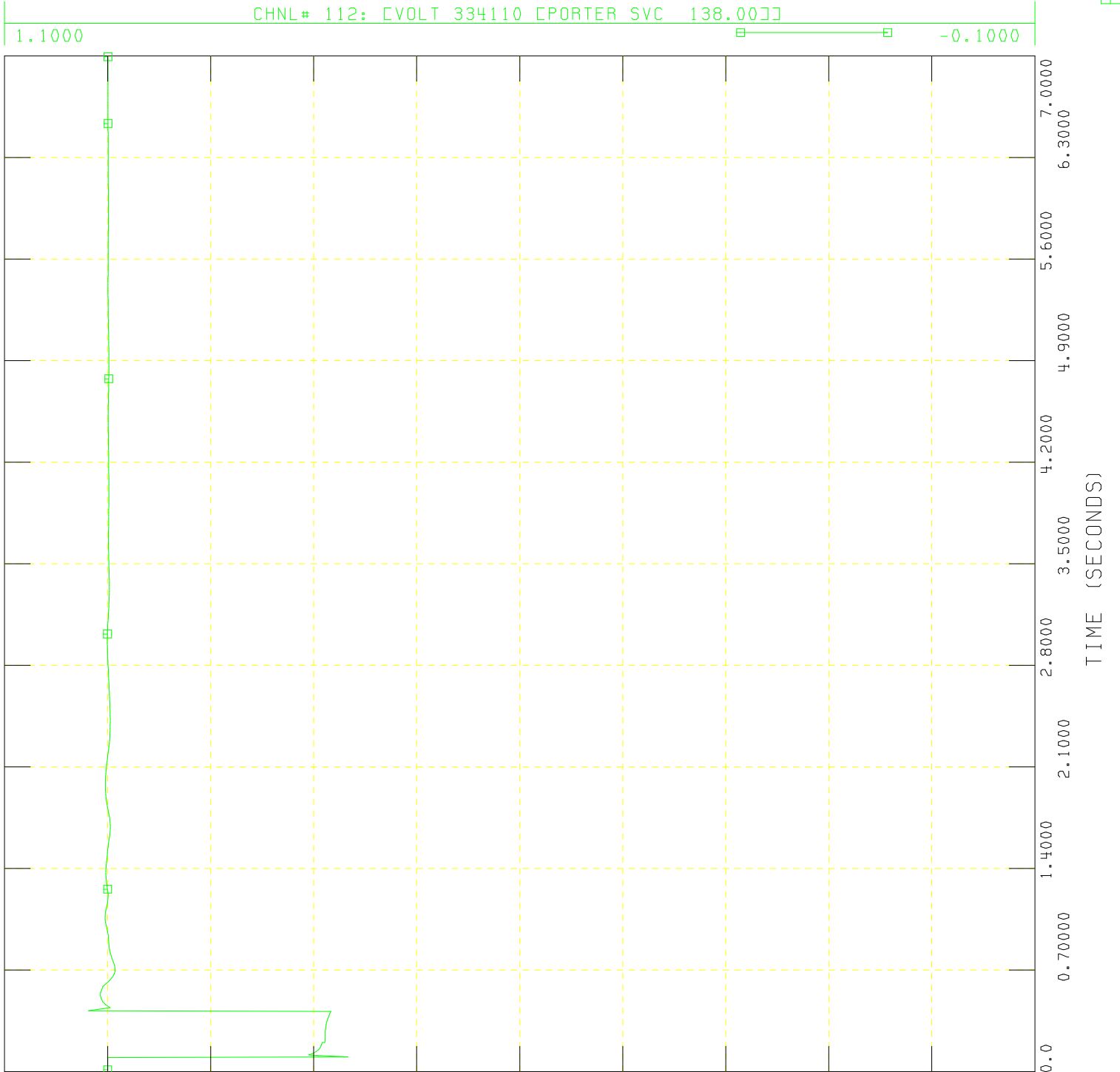




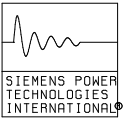
LC  
LC-GENCT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenCT2-4a.out

FRI, JUN 13 2008 12:40  
BUS VOLTAGES - 09



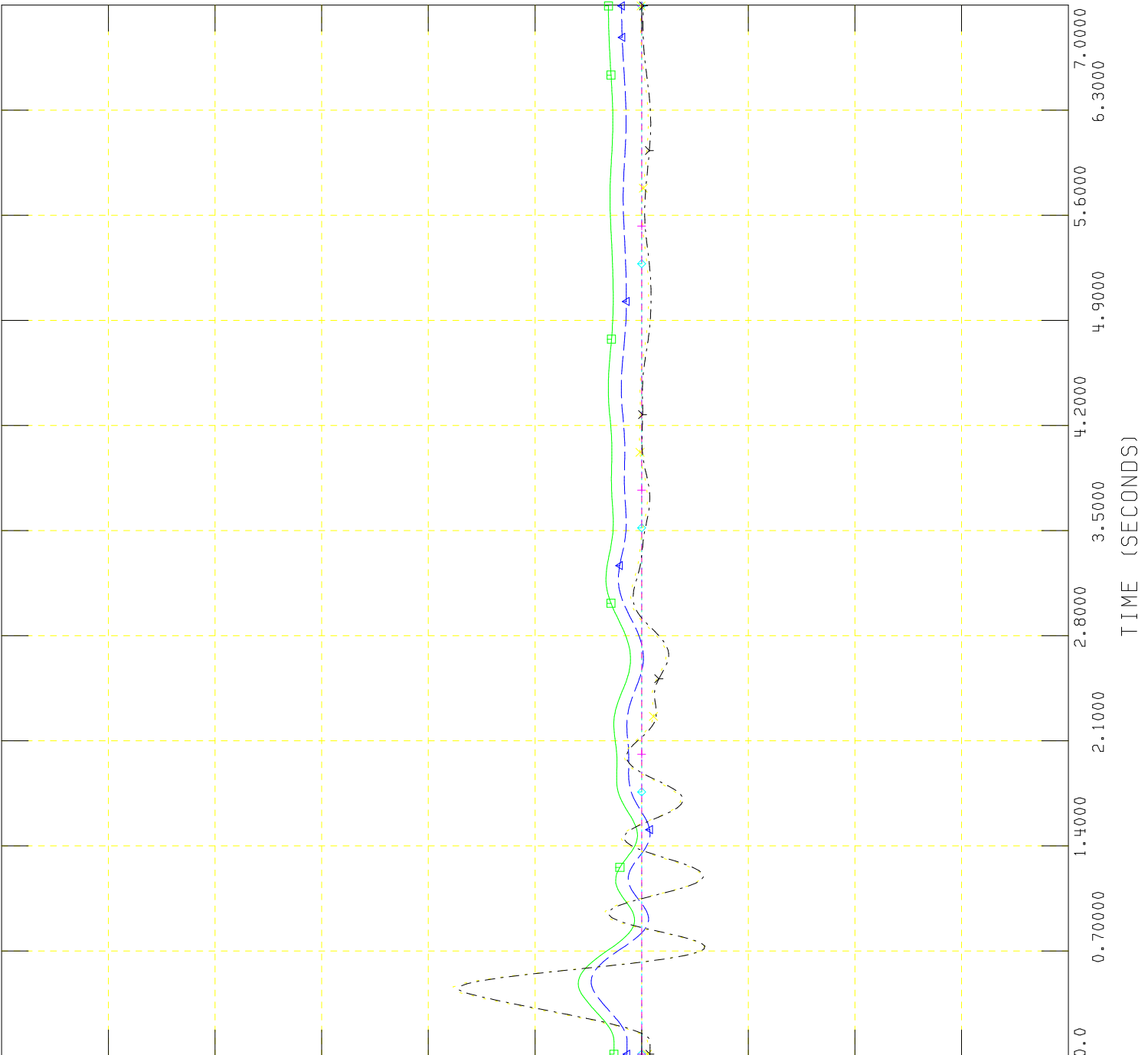
**FAULT G3a**  
**Lewis Creek 138 kV (Drop ST1)**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**



LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

Channel	Label	Value
6	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



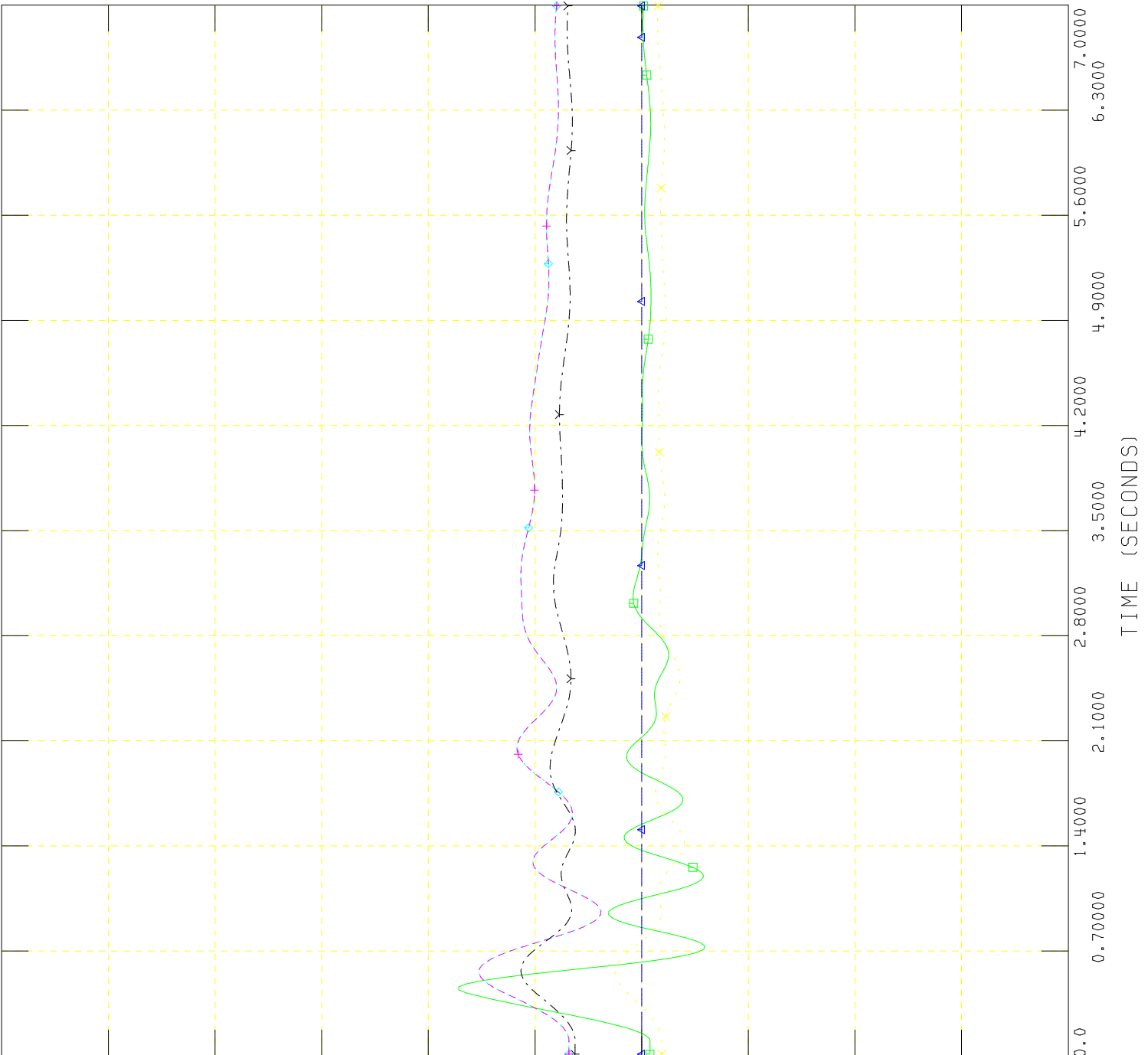
FRI, JUN 13 2008 12:43  
MACHINE ANGLES - 01



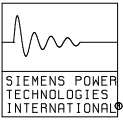
LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

Channel	Label	Value
11	CHANL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
10	CHANL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
9	CHANL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
8	CHANL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
7	CHANL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
6	CHANL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0



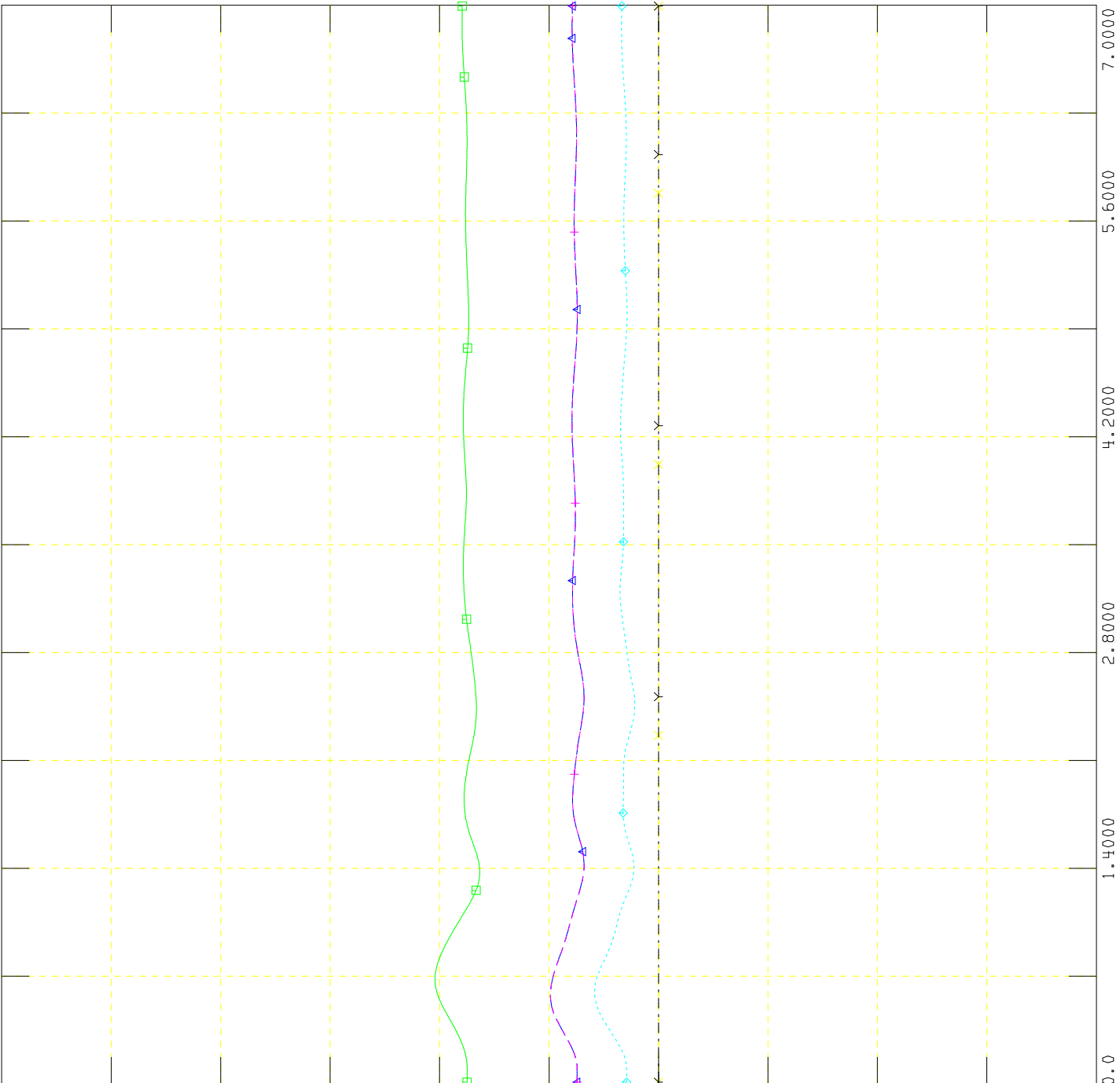
FRI, JUN 13 2008 12:43  
MACHINE ANGLES - 02



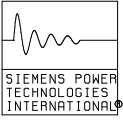
LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

Channel	Label	Value
18	CHNL# 18: [ANGL BUS 334380 MACH '1 ']	-100.0
17	CHNL# 17: [ANGL BUS 334377 MACH '1 ']	-100.0
16	CHNL# 16: [ANGL BUS 334376 MACH '1 ']	-100.0
15	CHNL# 15: [ANGL BUS 334375 MACH '1 ']	-100.0
14	CHNL# 14: [ANGL BUS 334374 MACH '1 ']	-100.0
13	CHNL# 13: [ANGL BUS 334335 MACH '1 ']	-100.0



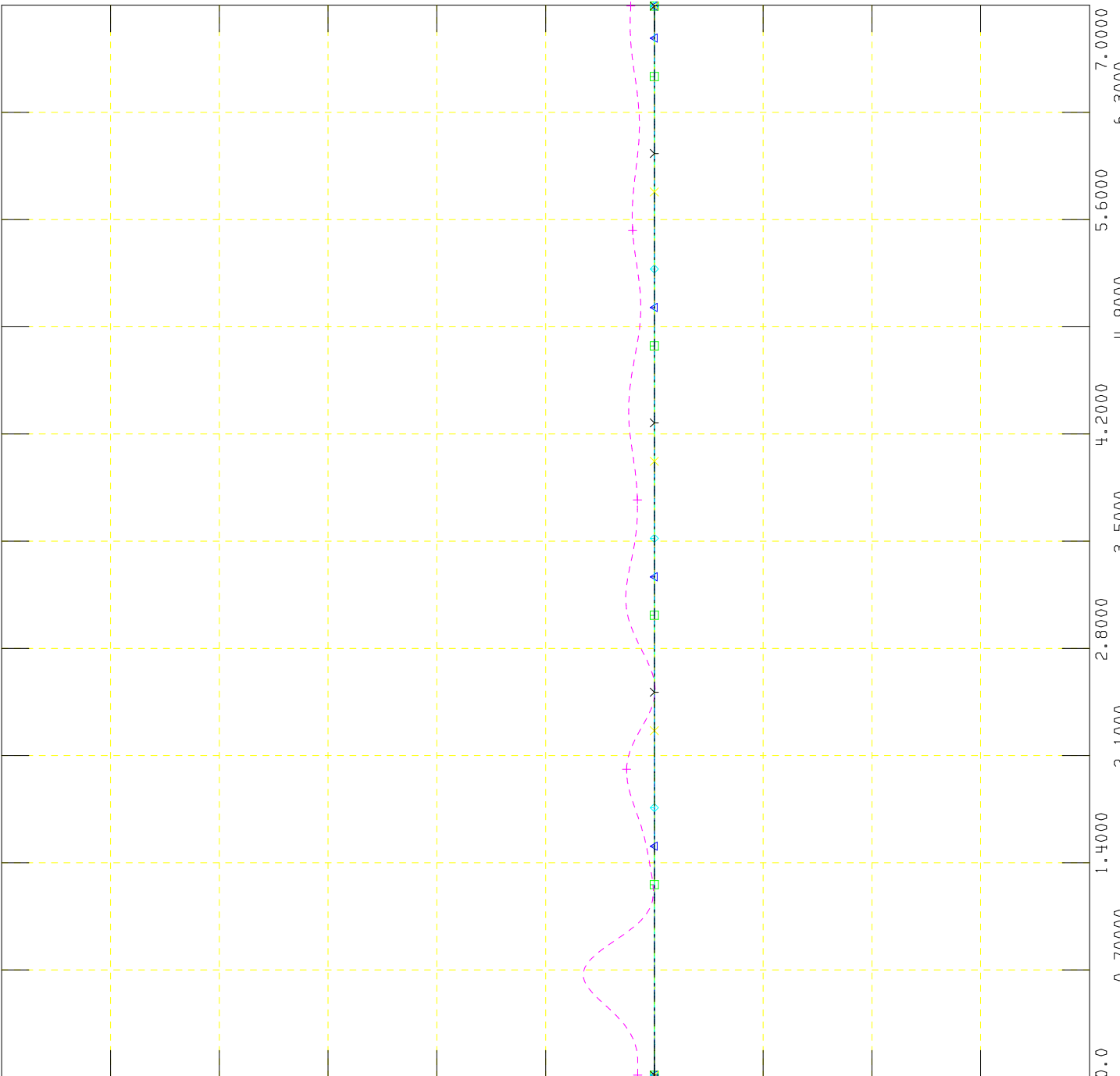
FRI, JUN 13 2008 12:43  
MACHINE ANGLES - 03



LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0

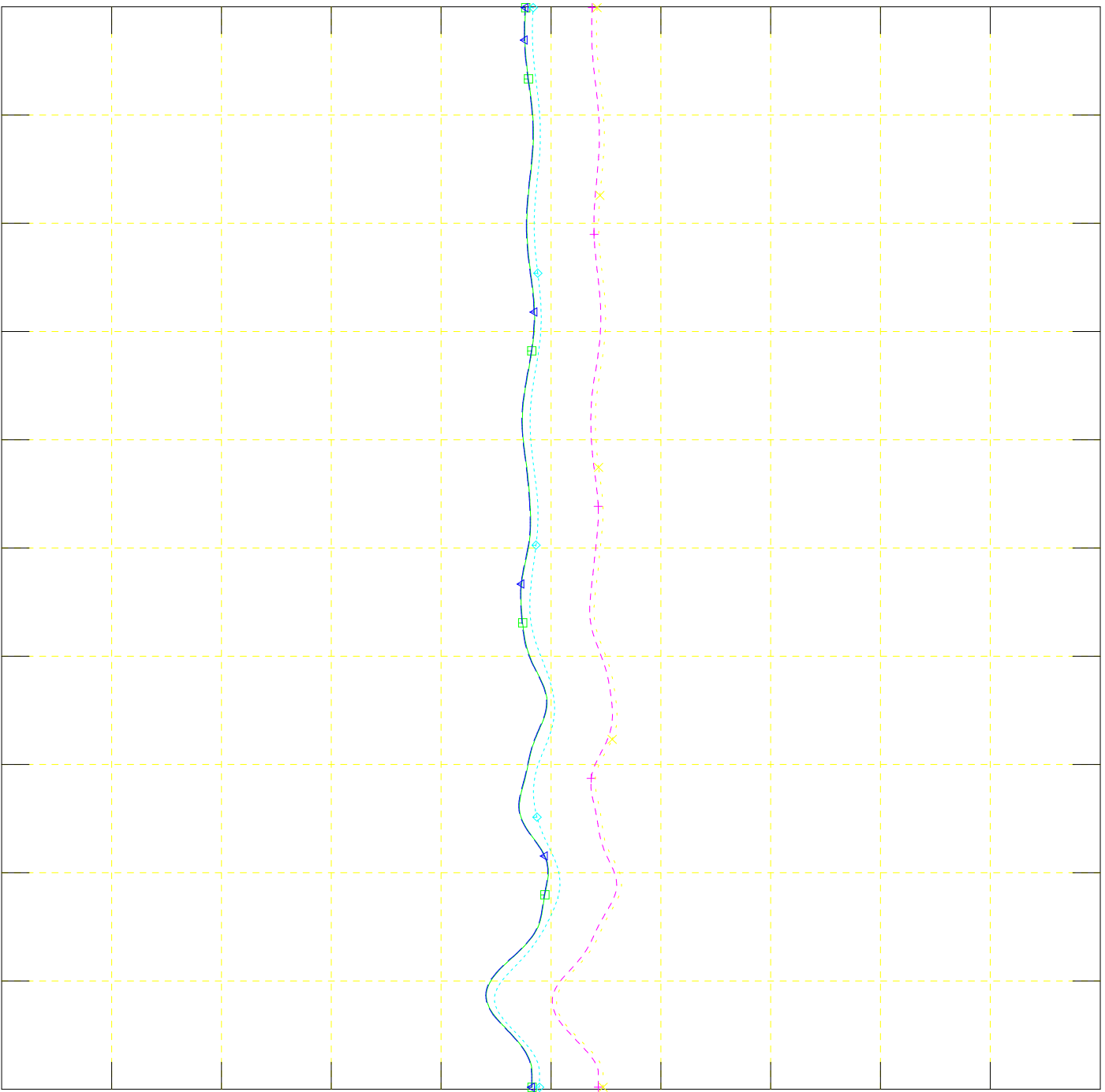
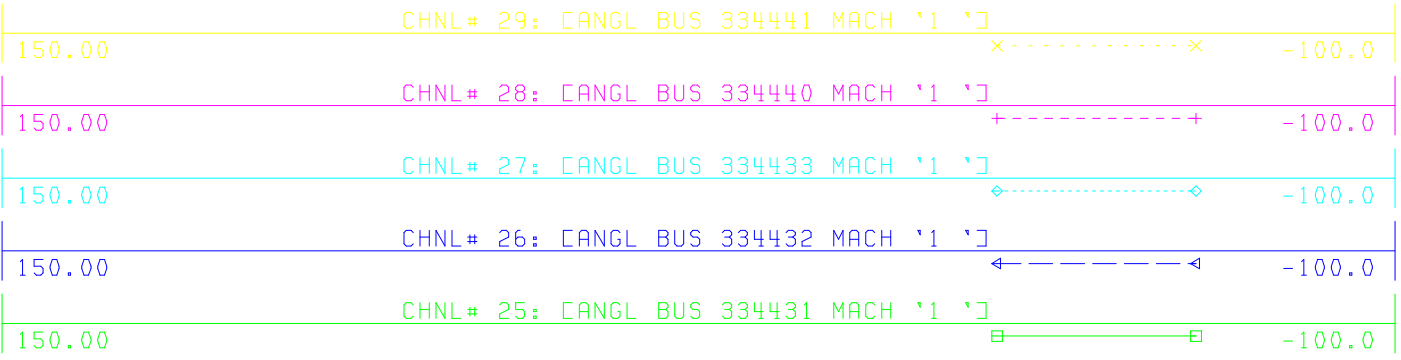


FRI, JUN 13 2008 12:43  
MACHINE ANGLES - 04

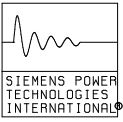


LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out



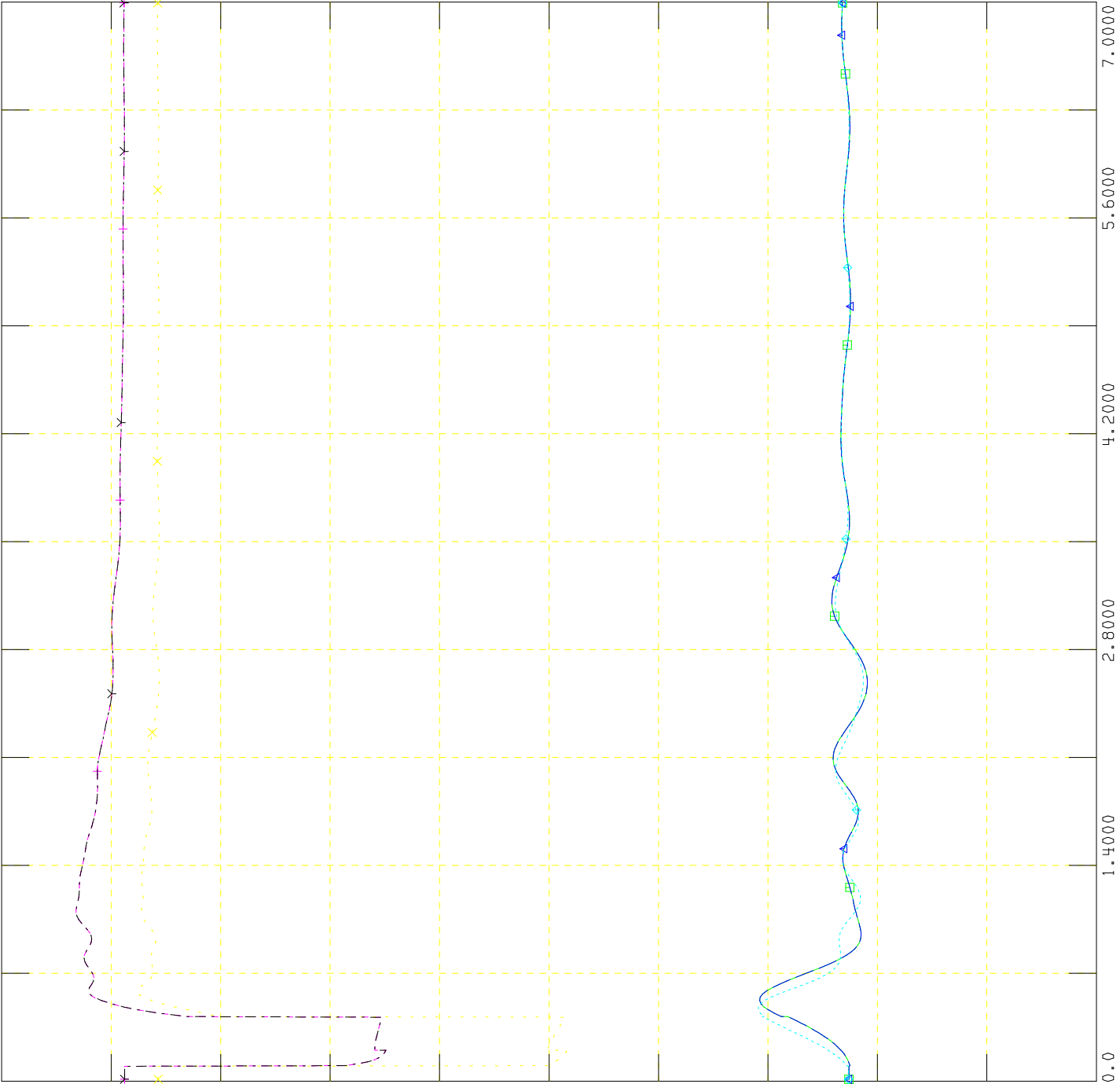
FRI, JUN 13 2008 12:43  
MACHINE ANGLES - 05



LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

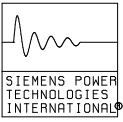
FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



FRI, JUN 13 2008 12:43  
ANG & VOLT - PID-211 GENS

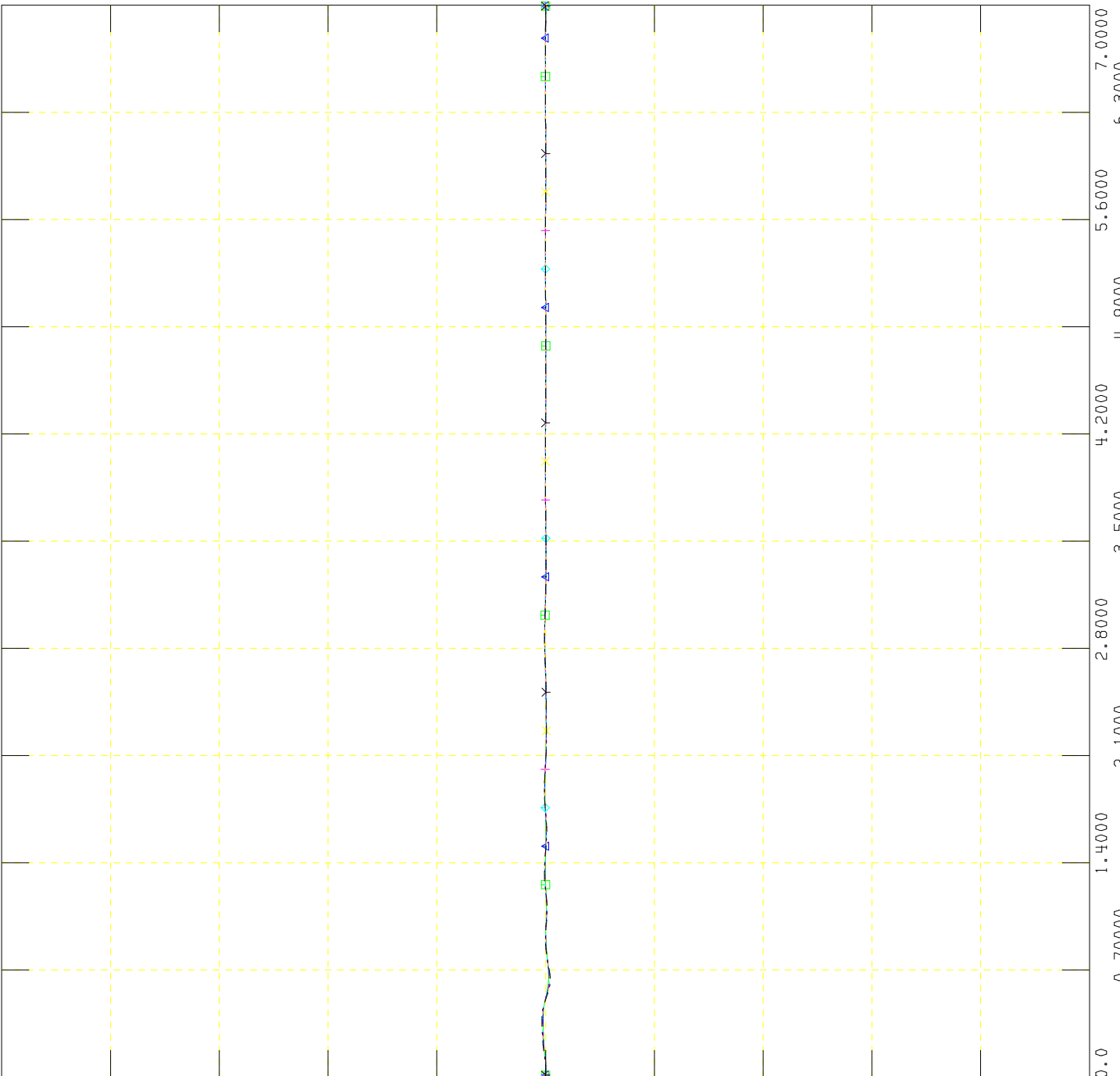




LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

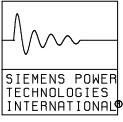
FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

Channel	CFREQ	Channel Name	Value
CHNL# 41	334065	C4LACON	138.00
CHNL# 40	334064	C8LNG 413	138.00
CHNL# 39	334063	C4EVGRN*	138.00
CHNL# 38	334062	C4TEMCO	138.00
CHNL# 37	334061	C4GOREE	138.00
CHNL# 36	334060	C4MT.ZION	138.00



FRI, JUN 13 2008 12:43  
MACHINE FREQUENCIES - 01

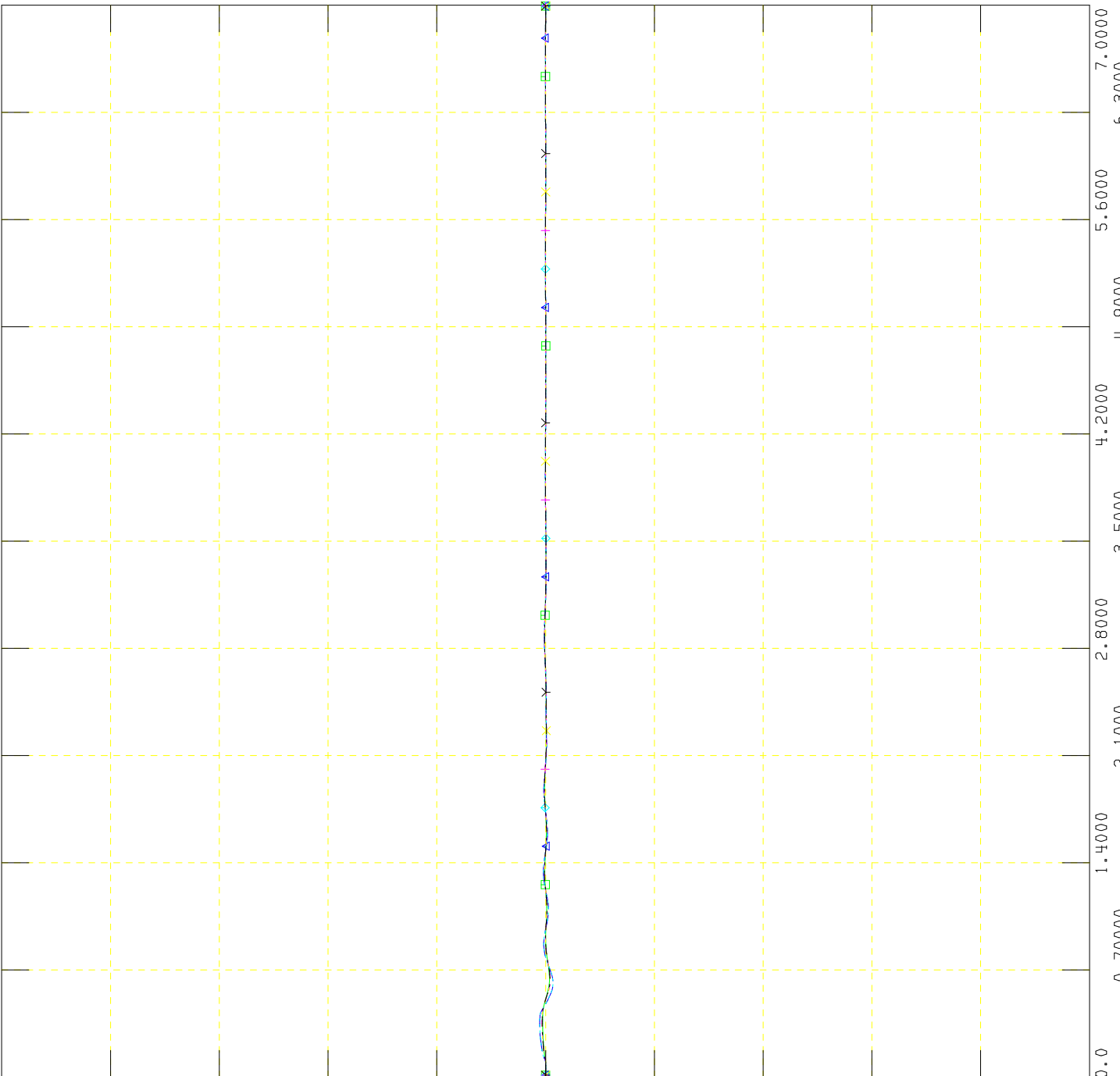
TIME (SECONDS)



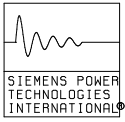
LC  
 LC-GENST1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



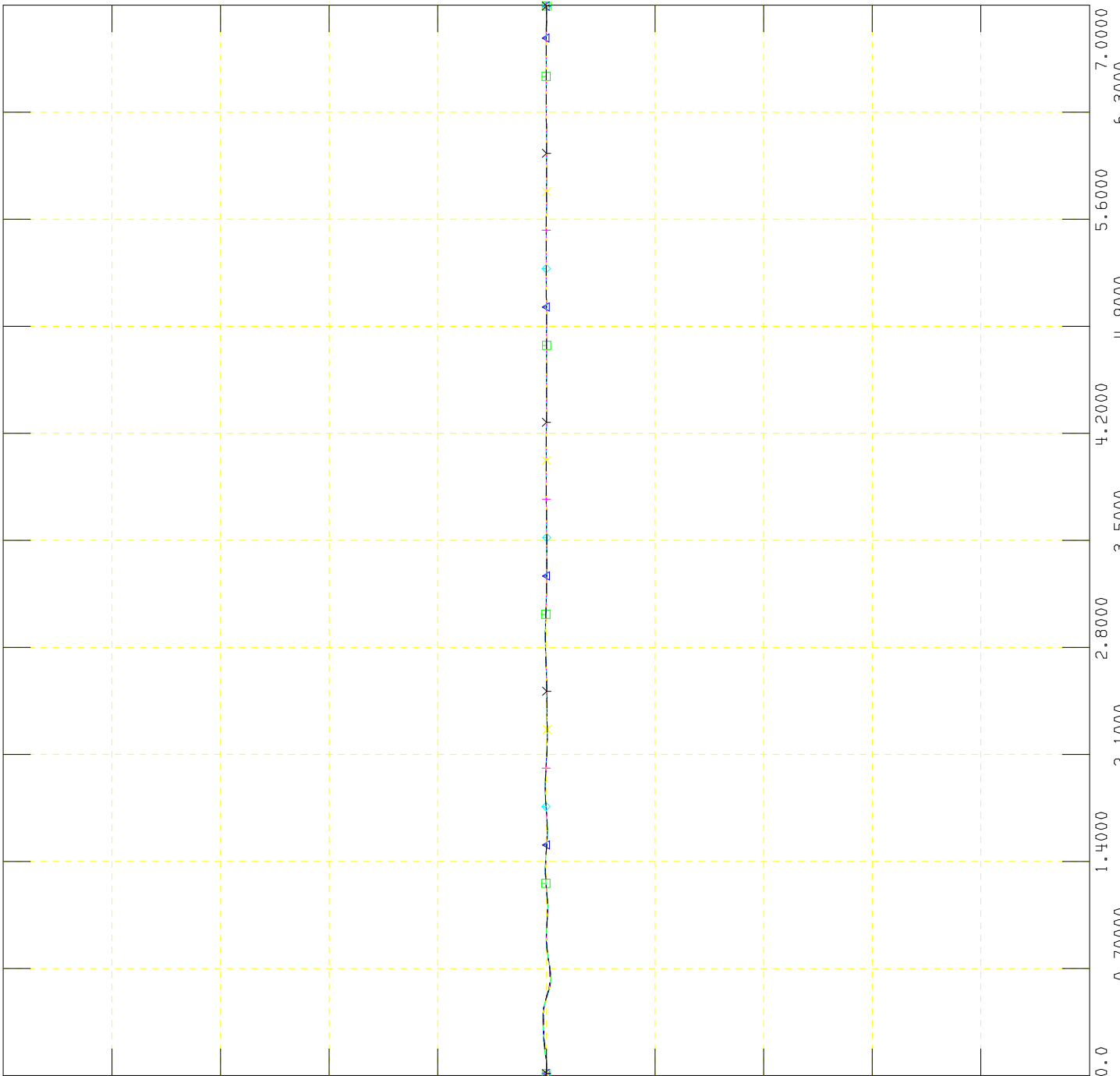
FRI, JUN 13 2008 12:43  
 MACHINE FREQUENCIES - 02



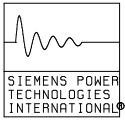
LC  
 LC-GENST1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



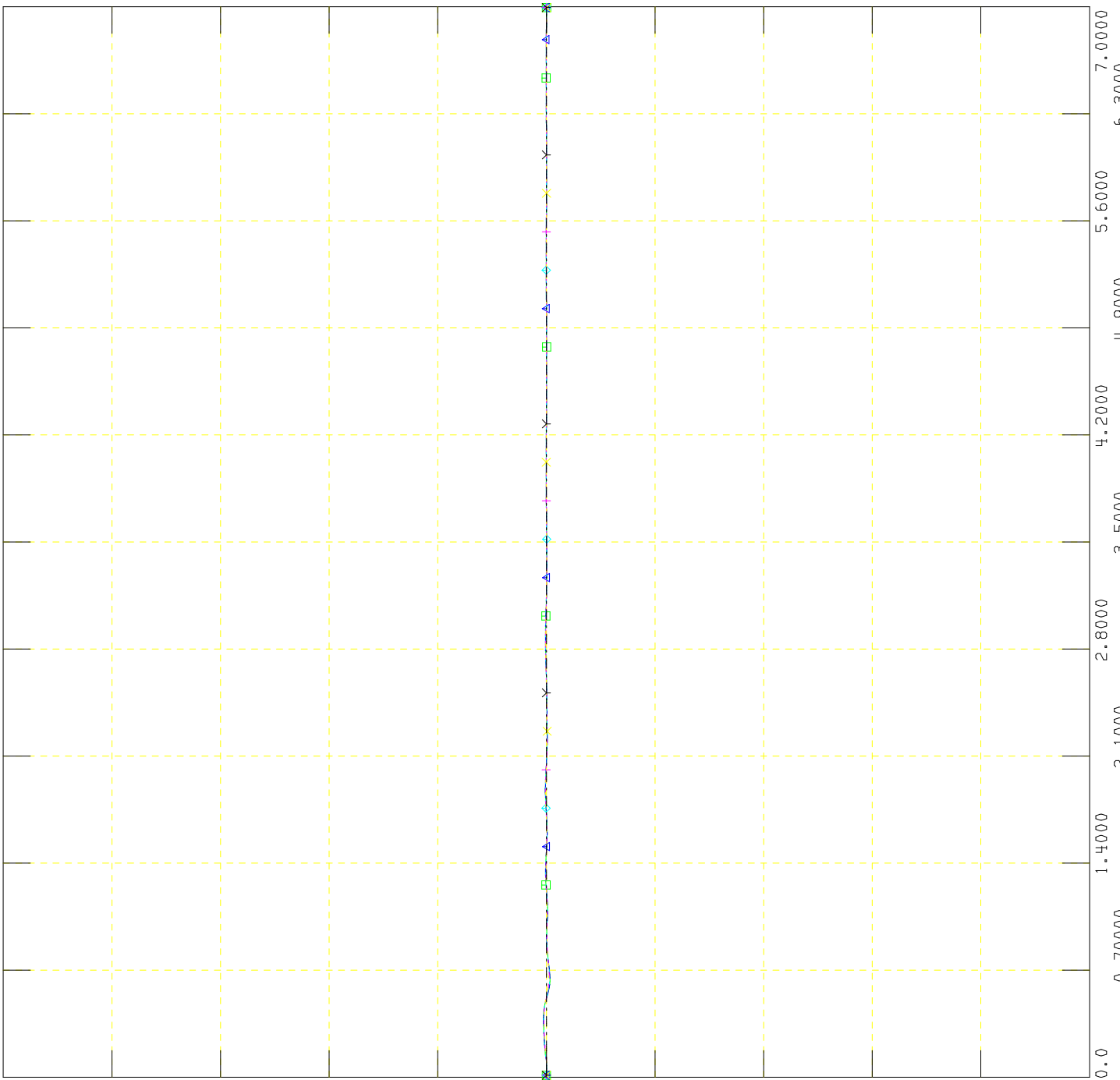
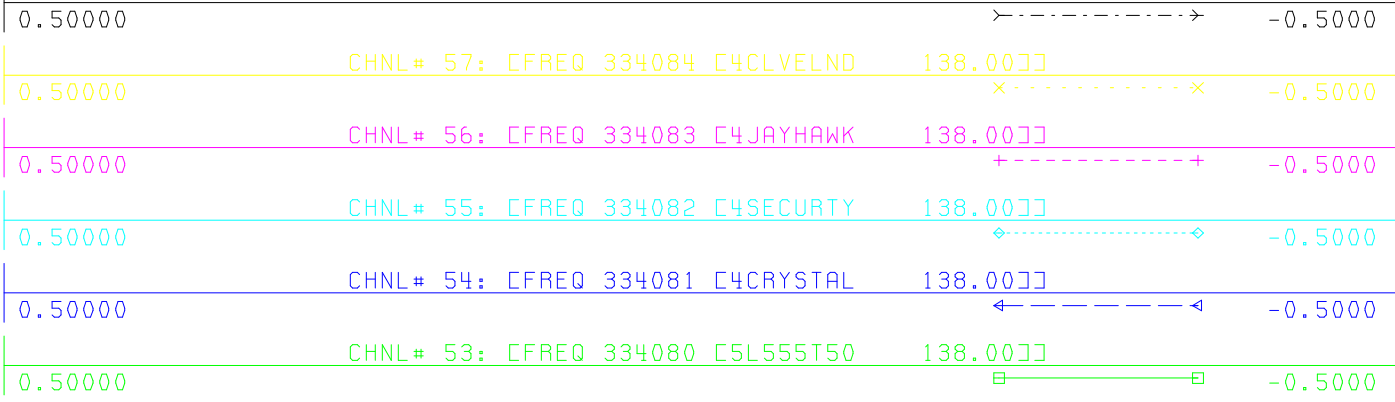
FRI, JUN 13 2008 12:43  
 MACHINE FREQUENCIES - 03



LC  
 LC-GENST1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 12:43  
 MACHINE FREQUENCIES - 04

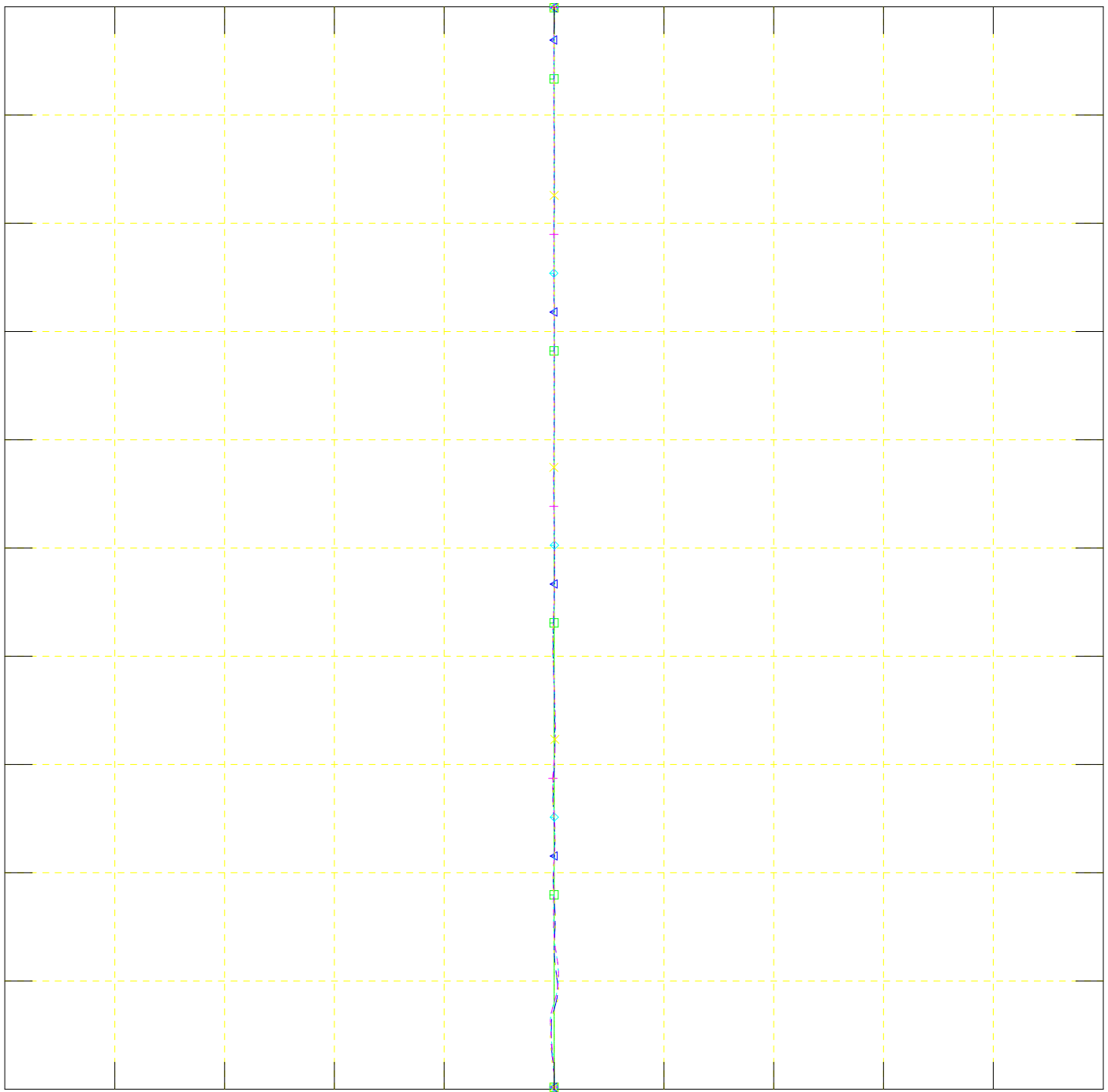


LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

FRI, JUN 13 2008 12:43  
MACHINE FREQUENCIES - 05

Channel	FREQ	GEN	Value
CHNL# 63	CFREQ 99183	EG3PID211	18.000
CHNL# 62	CFREQ 99182	EG2PID211	18.000
CHNL# 61	CFREQ 99181	EG1PID211	18.000
CHNL# 60	CFREQ 334090	E4ALDEN	138.000
CHNL# 59	CFREQ 334086	E6CONROE	230.000

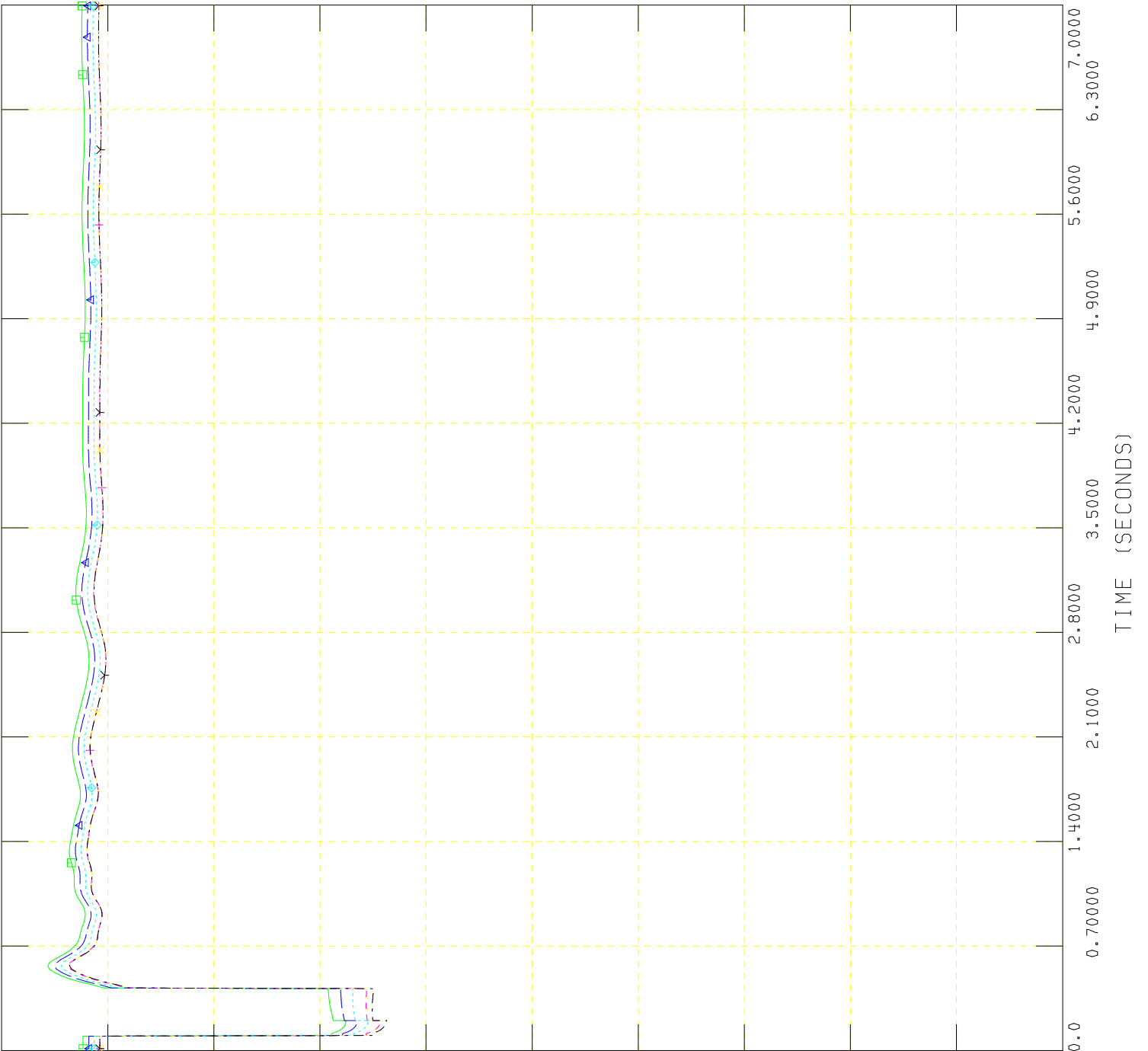




LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



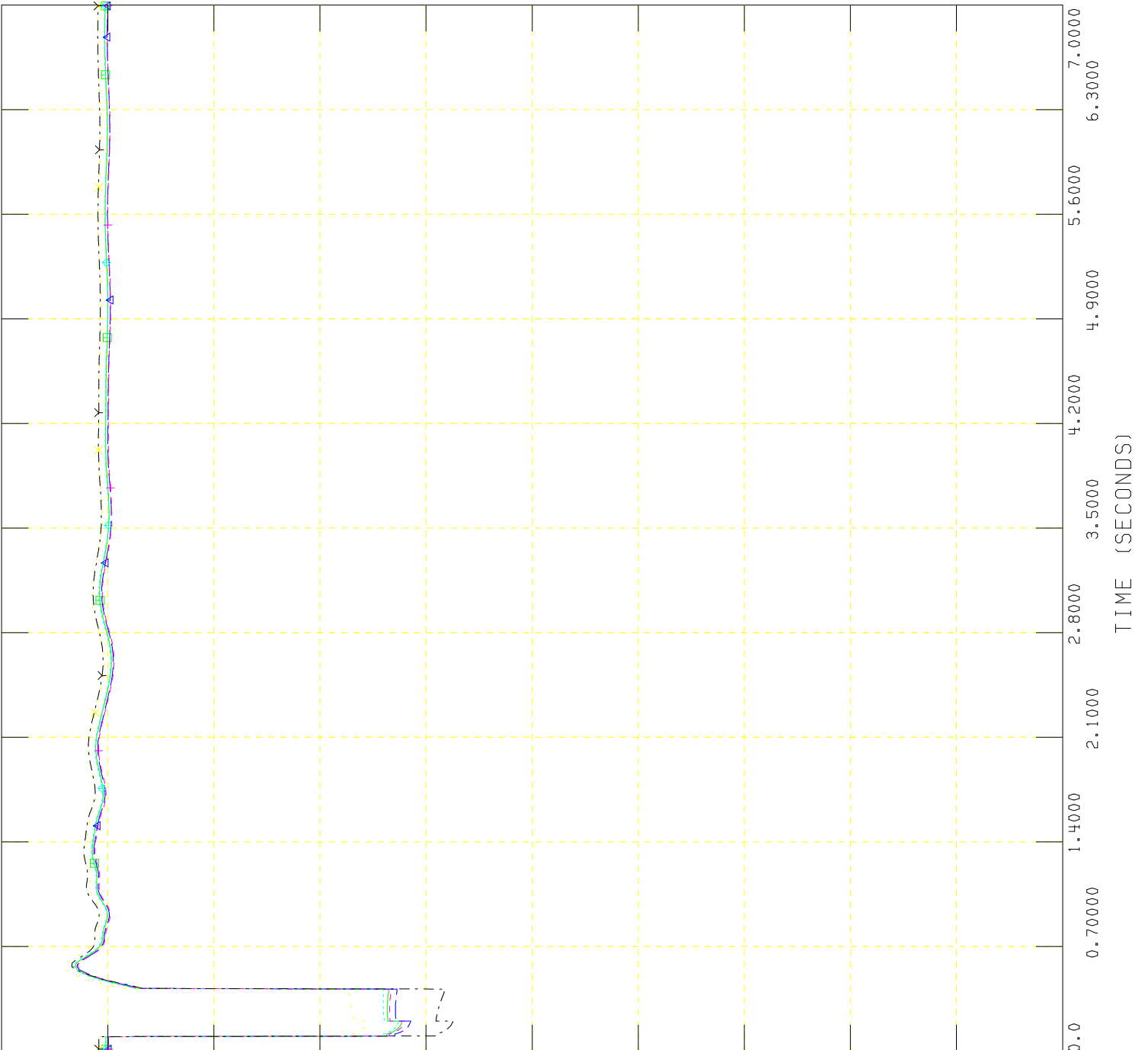
FRI, JUN 13 2008 12:43  
BUS VOLTAGES - 01



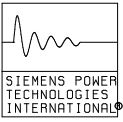
LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



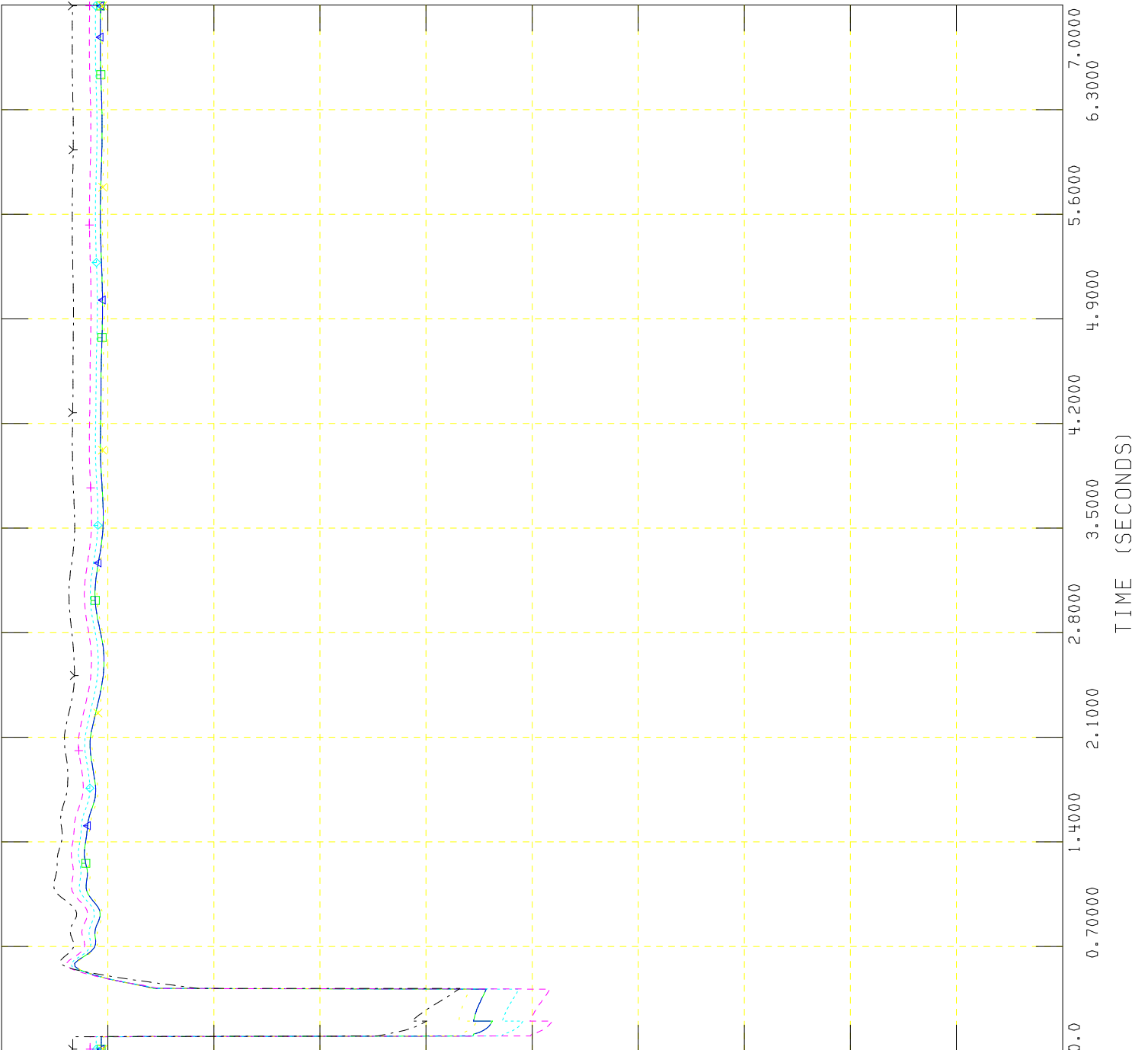
FRI, JUN 13 2008 12:43  
BUS VOLTAGES - 02



LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



FRI, JUN 13 2008 12:43  
BUS VOLTAGES - 03

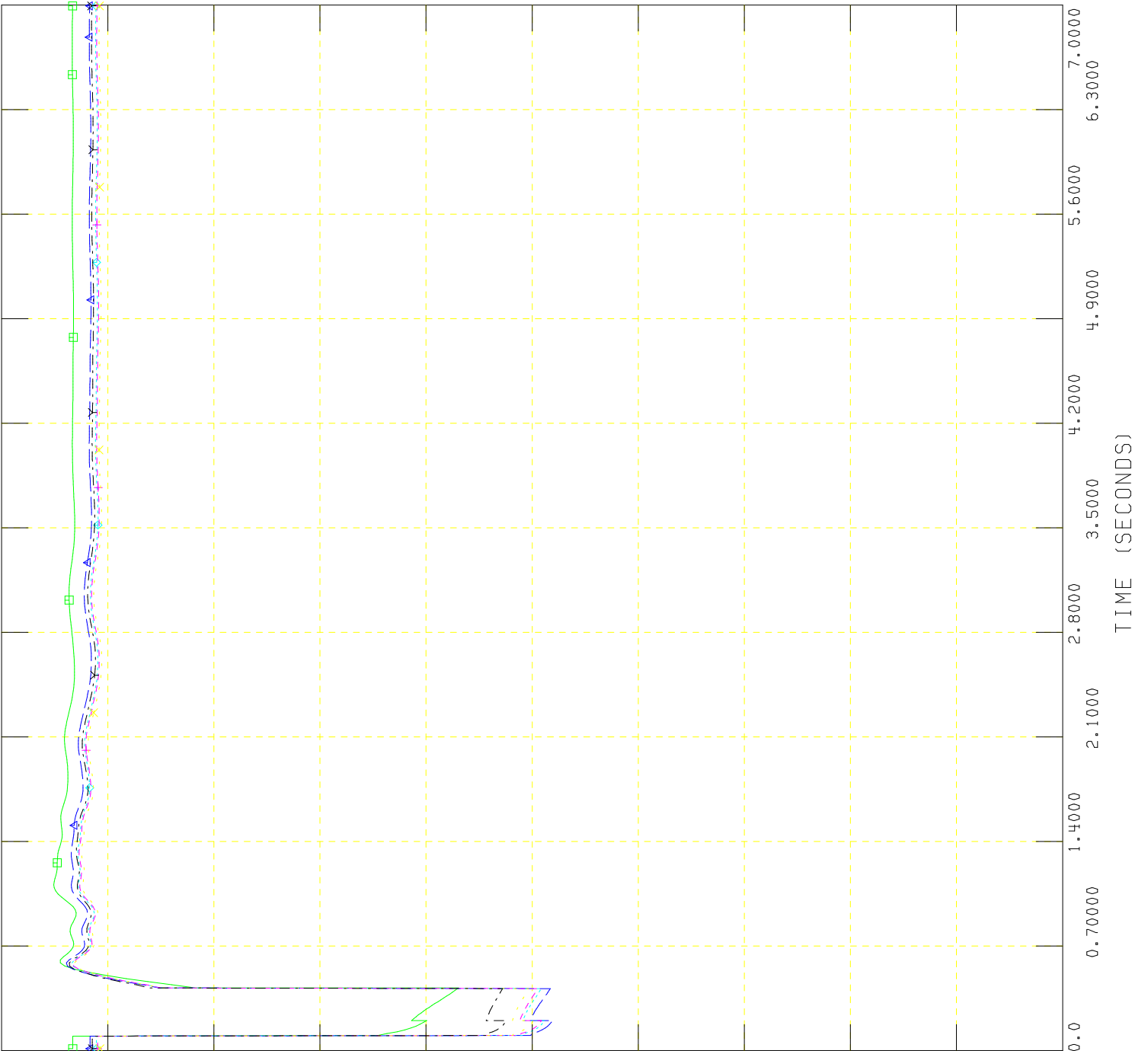




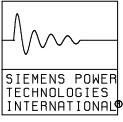
LC  
 LC-GENST1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



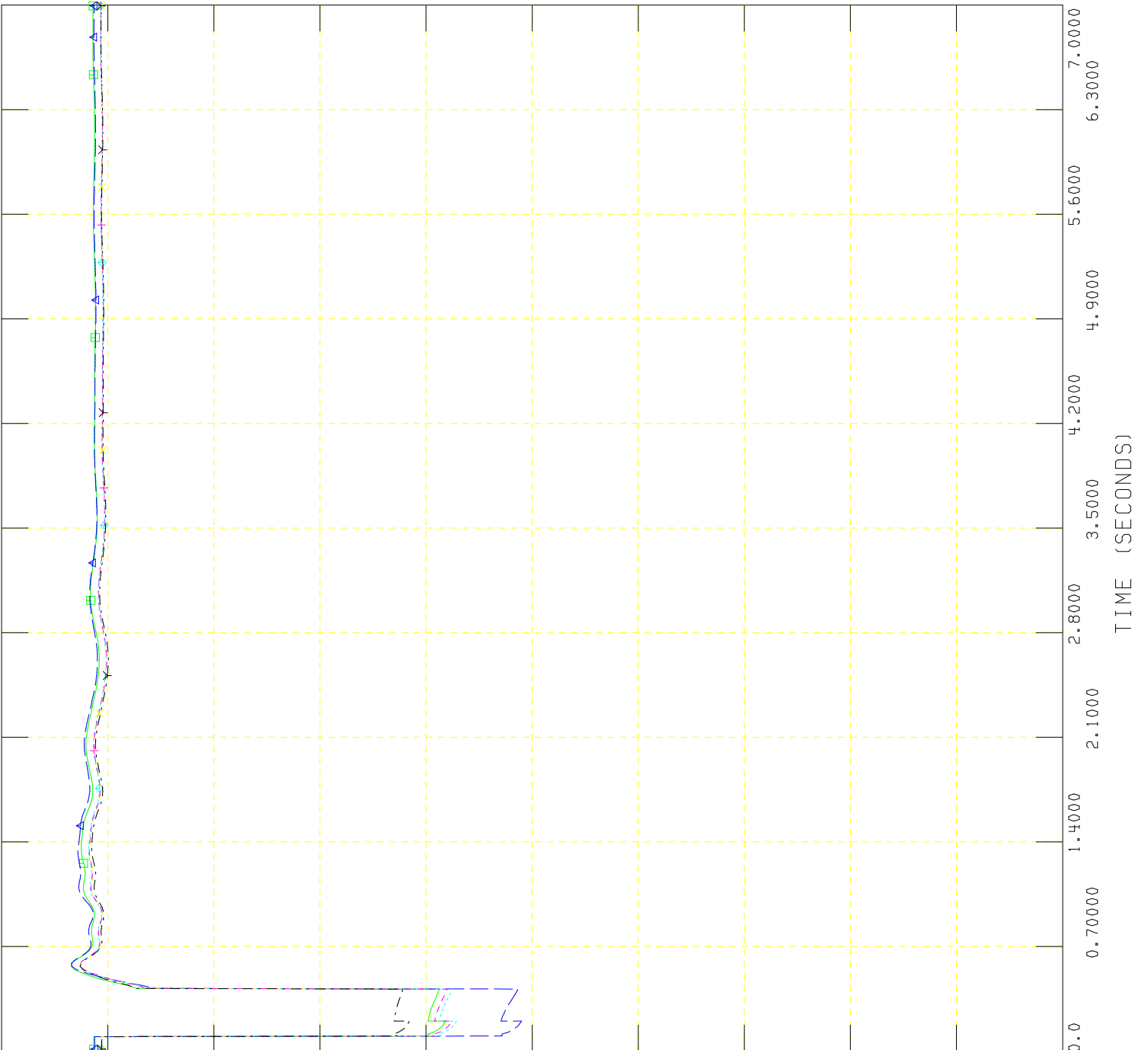
FRI, JUN 13 2008 12:43  
 BUS VOLTAGES - 04



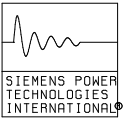
LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



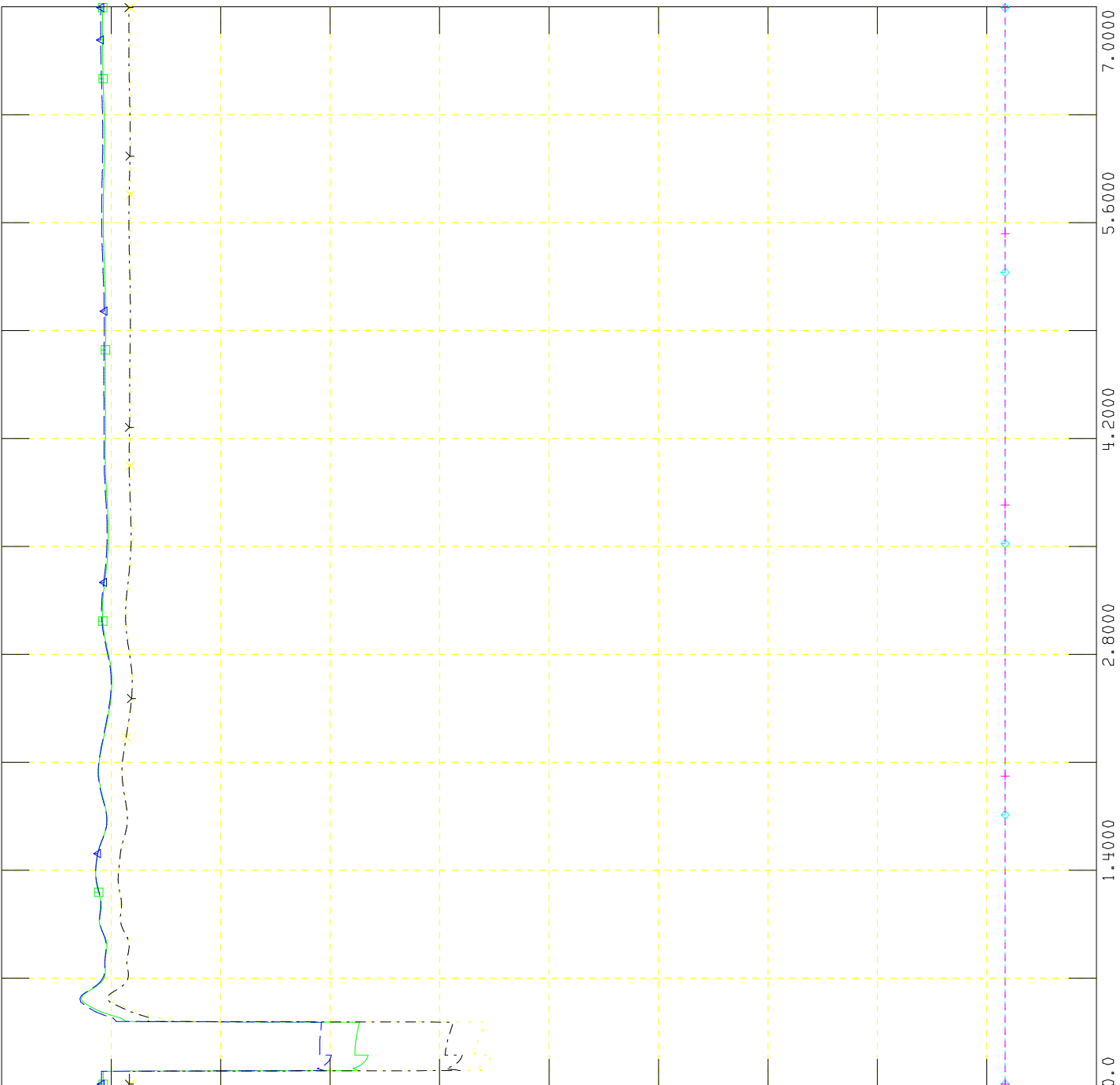
FRI, JUN 13 2008 12:43  
BUS VOLTAGES - 05



LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



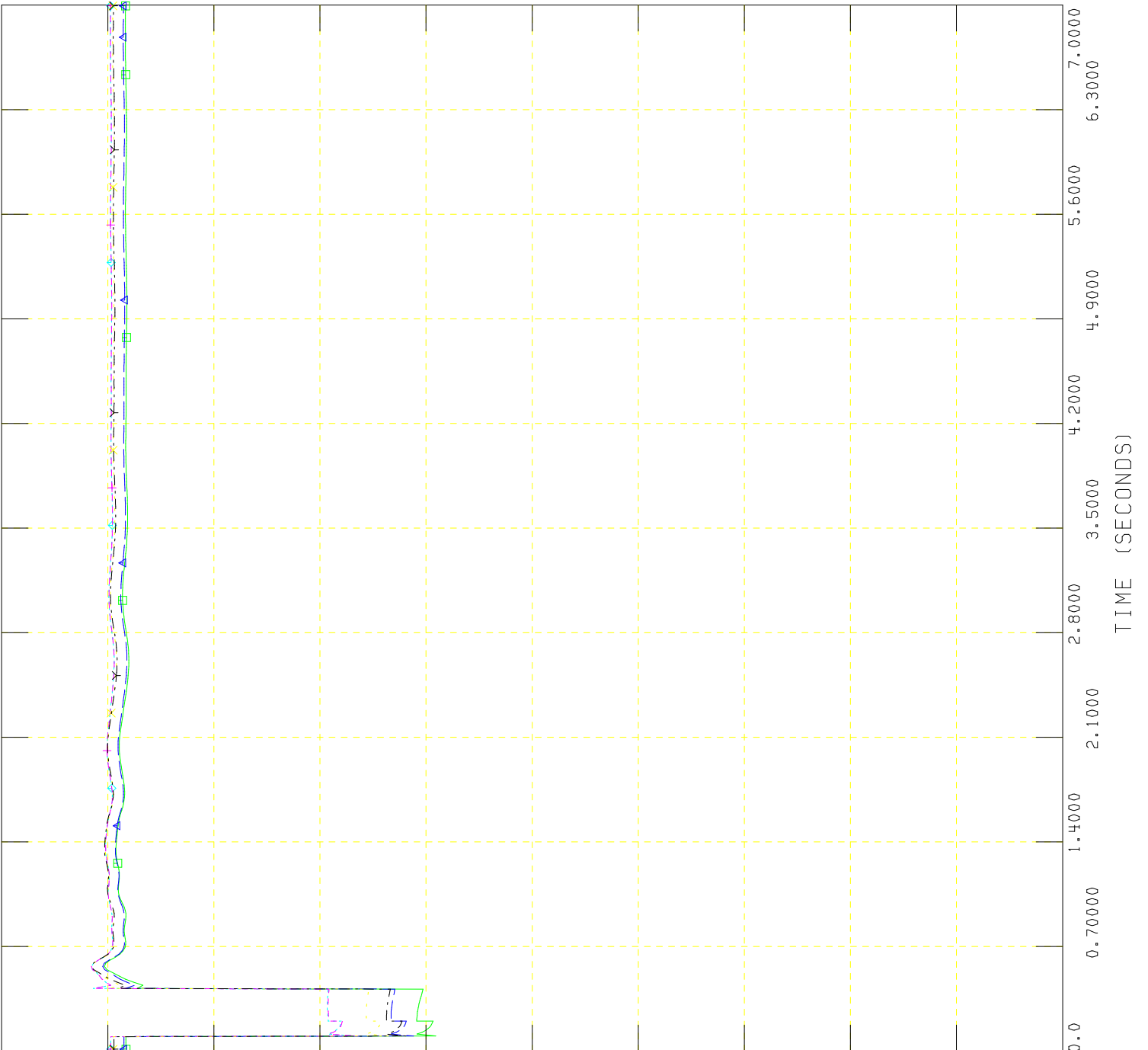
FRI, JUN 13 2008 12:43  
BUS VOLTAGES - 06



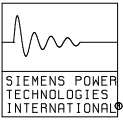
LC  
 LC-GENST1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



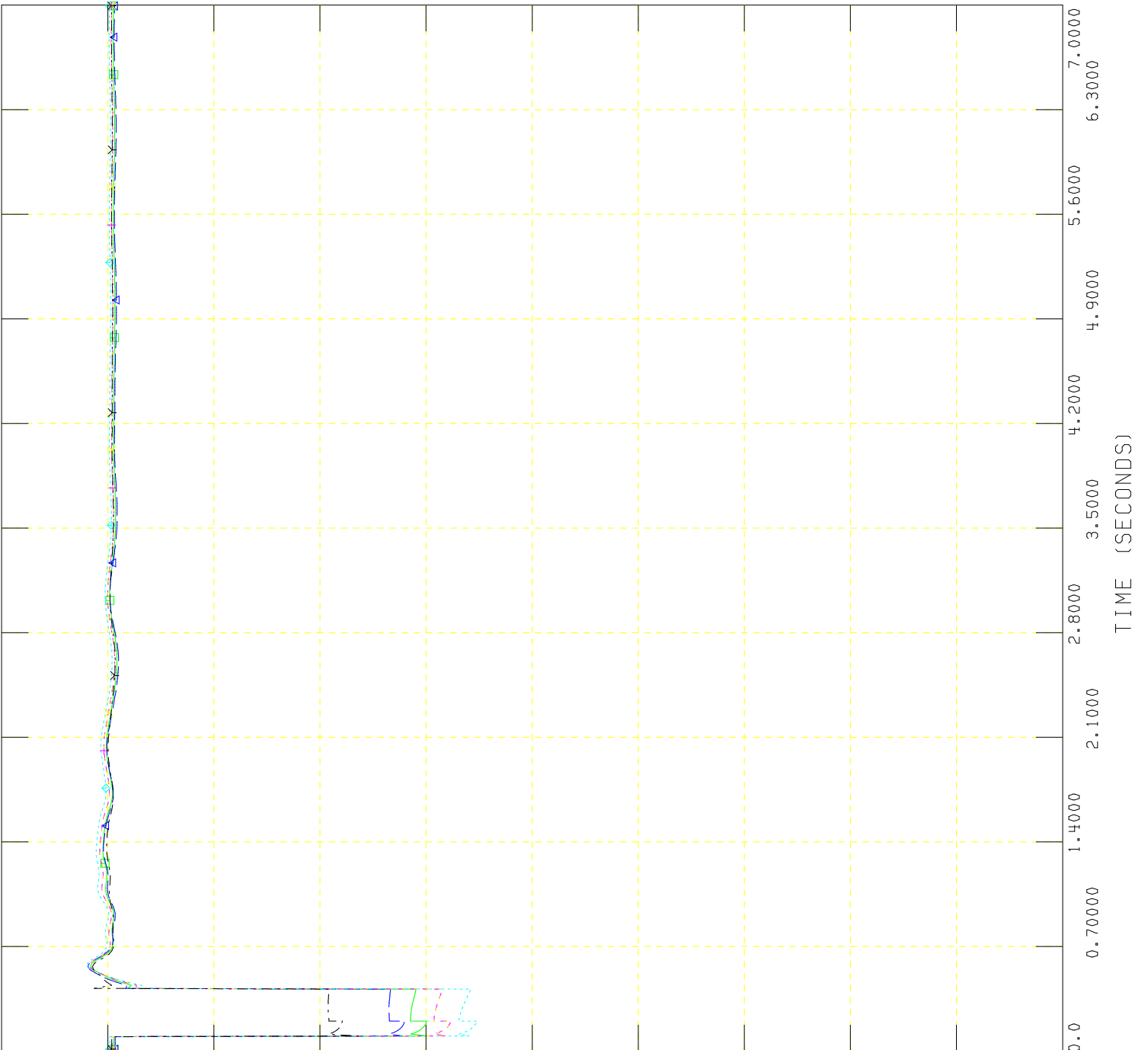
FRI, JUN 13 2008 12:43  
 BUS VOLTAGES - 07



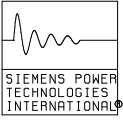
LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



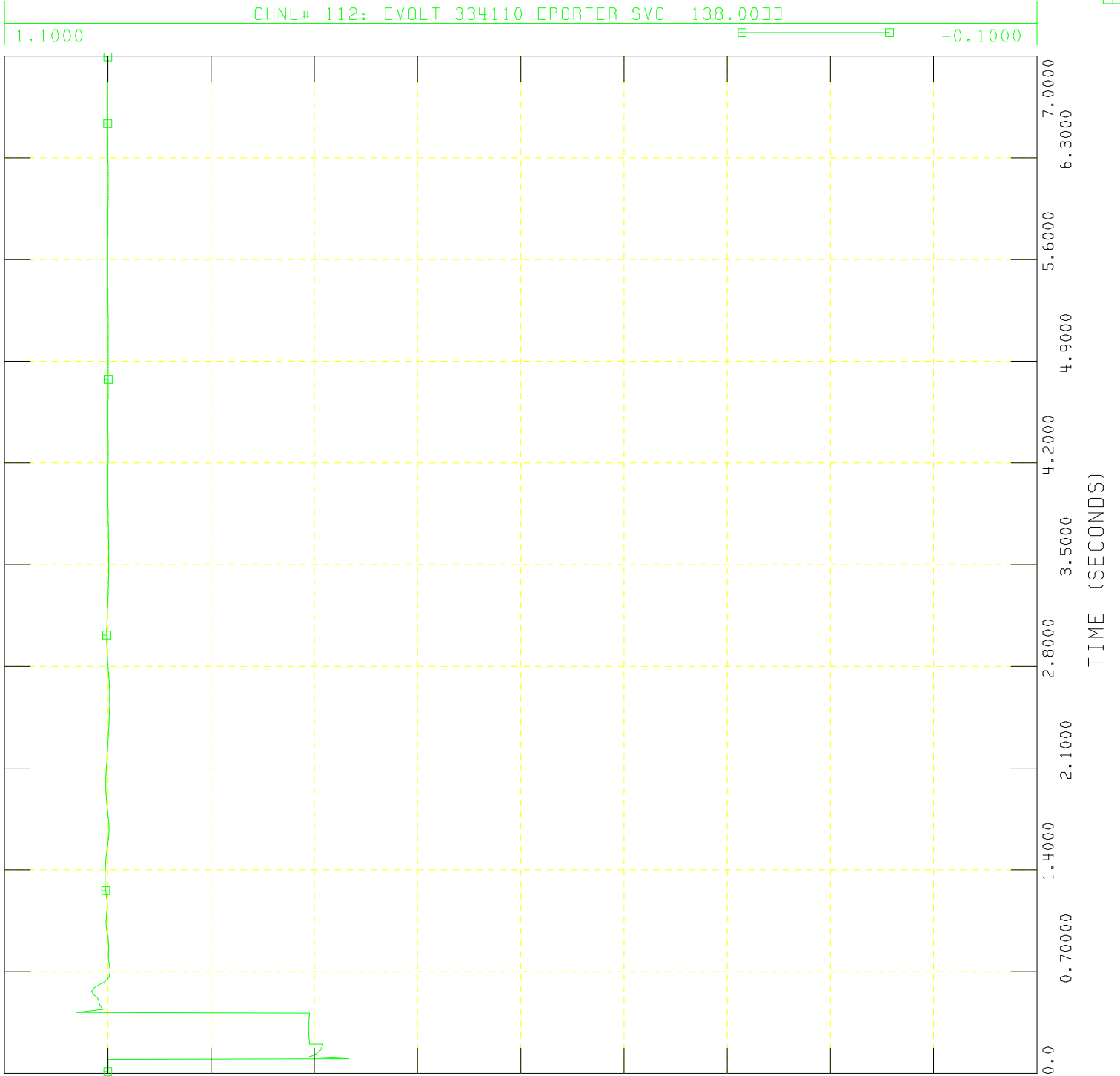
FRI, JUN 13 2008 12:43  
BUS VOLTAGES - 08



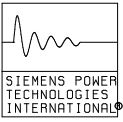
LC  
LC-GENST1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenST1-5a.out

FRI, JUN 13 2008 12:43  
BUS VOLTAGES - 09



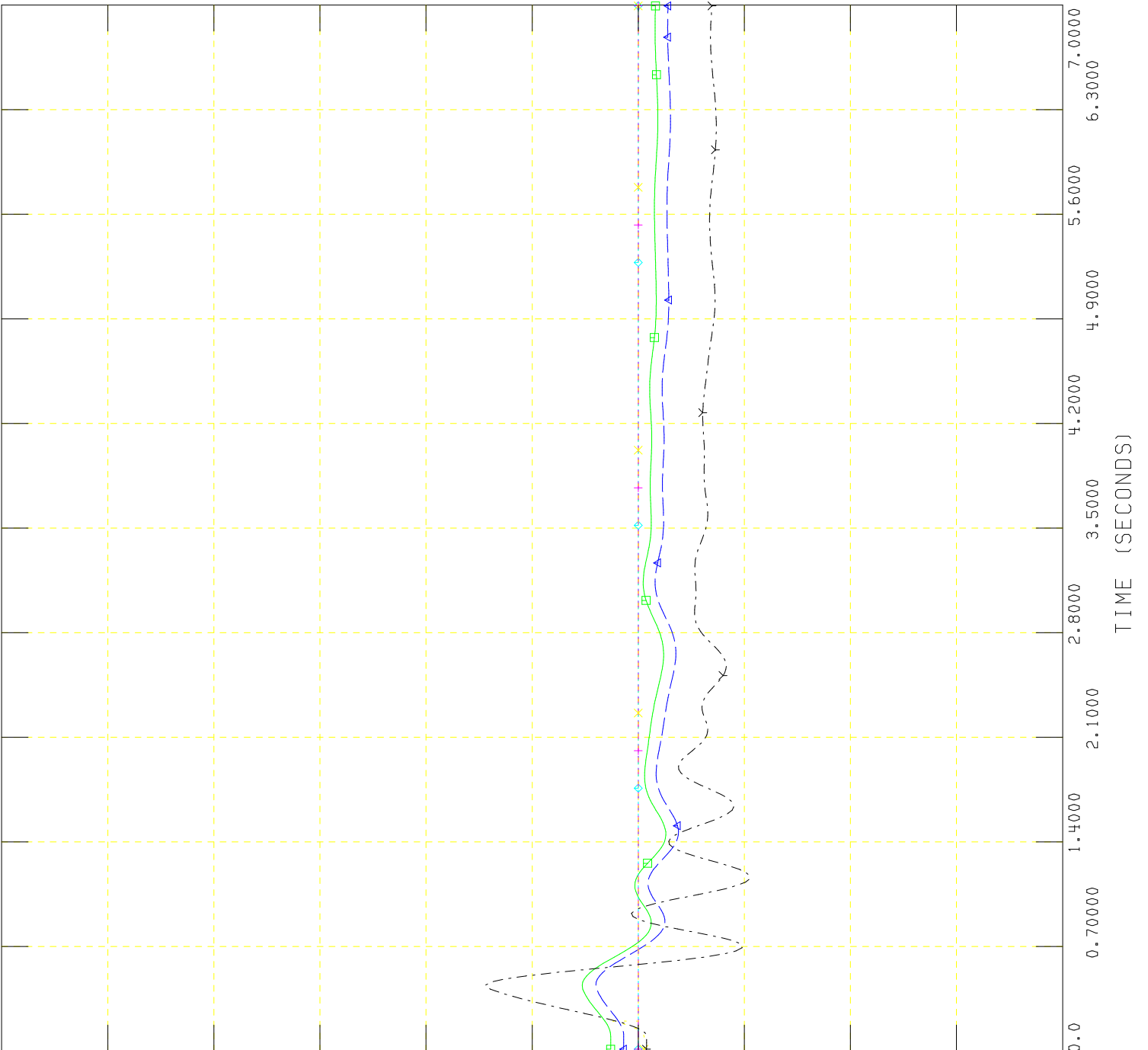
**FAULT G4a**  
**Lewis Creek 138 kV (Drop Unit 1)**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**



LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

Channel	Label	Value
6	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



FRI, JUN 13 2008 12:46  
MACHINE ANGLES - 01

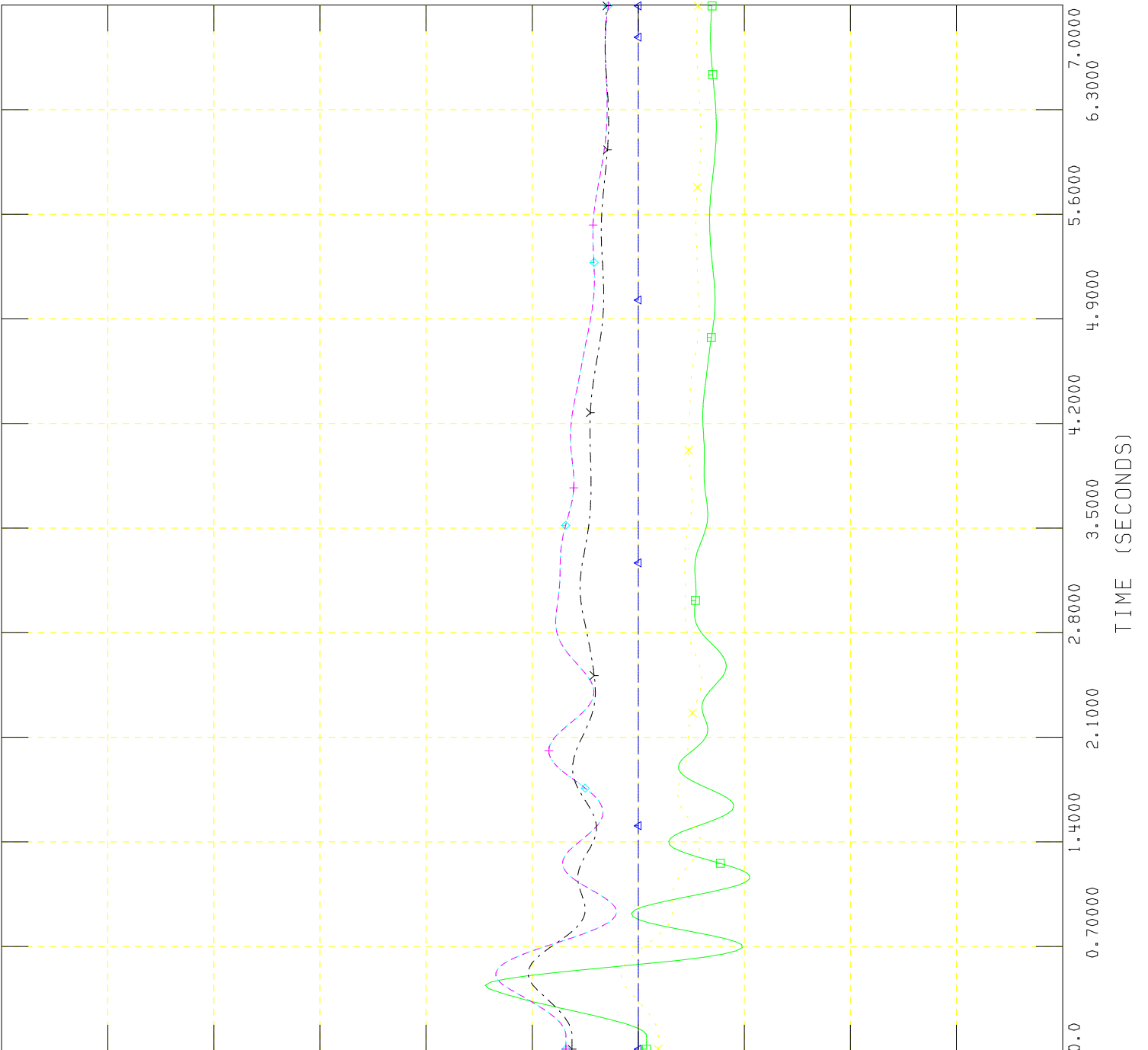




LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

Channel	Label	Value
11	CHANL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
10	CHANL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
9	CHANL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
8	CHANL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
7	CHANL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
6	CHANL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

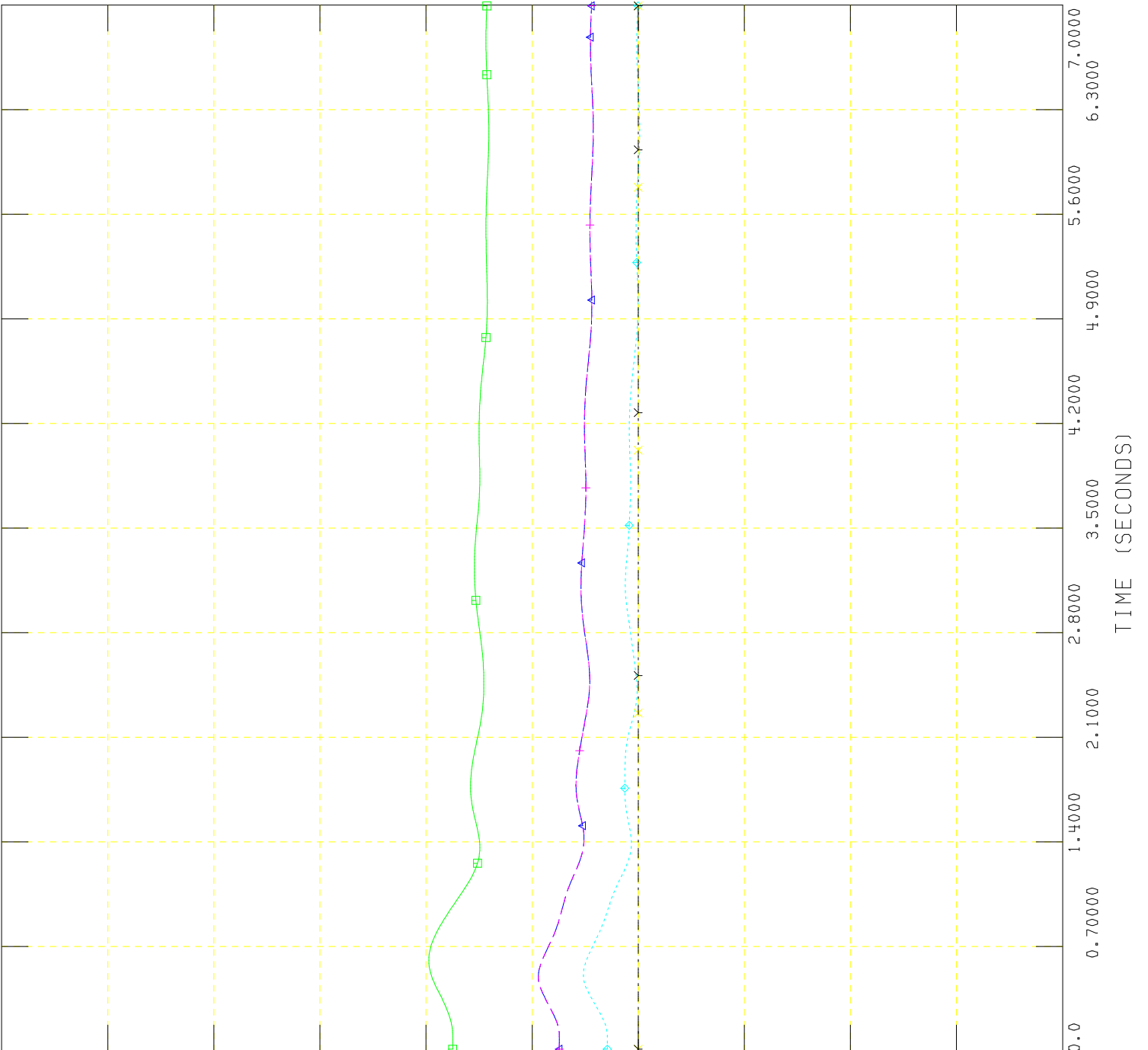
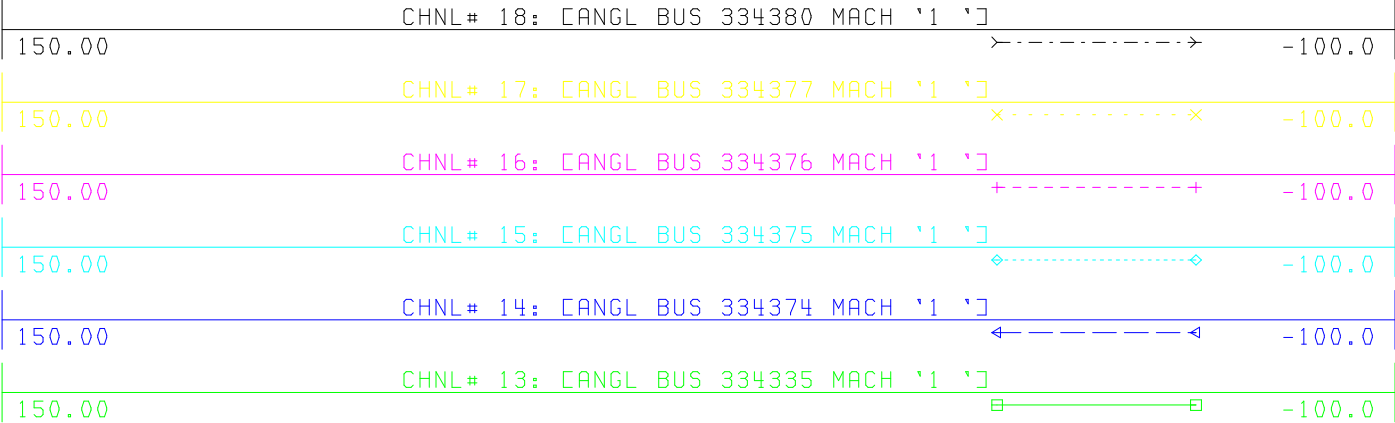


FRI, JUN 13 2008 12:46  
MACHINE ANGLES - 02



LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out



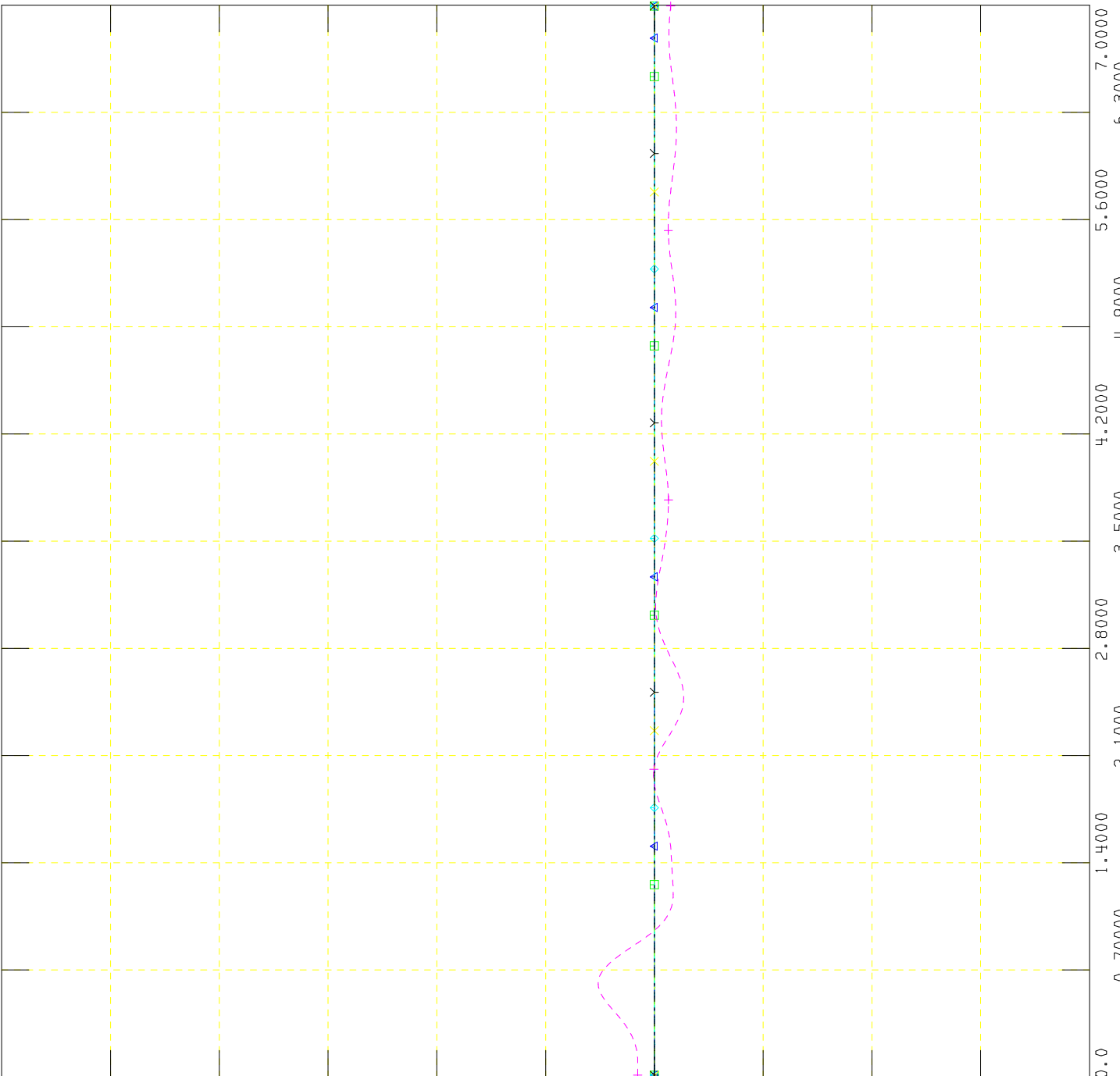
FRI, JUN 13 2008 12:46  
MACHINE ANGLES - 03



LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

Channel	Label	Value
150.00	CHNL# 24: [ANGL BUS 334394 MACH '1 ']	-100.0
150.00	CHNL# 23: [ANGL BUS 334393 MACH '1 ']	-100.0
150.00	CHNL# 22: [ANGL BUS 334392 MACH '1 ']	-100.0
150.00	CHNL# 21: [ANGL BUS 334383 MACH '1 ']	-100.0
150.00	CHNL# 20: [ANGL BUS 334382 MACH '1 ']	-100.0
150.00	CHNL# 19: [ANGL BUS 334381 MACH '1 ']	-100.0



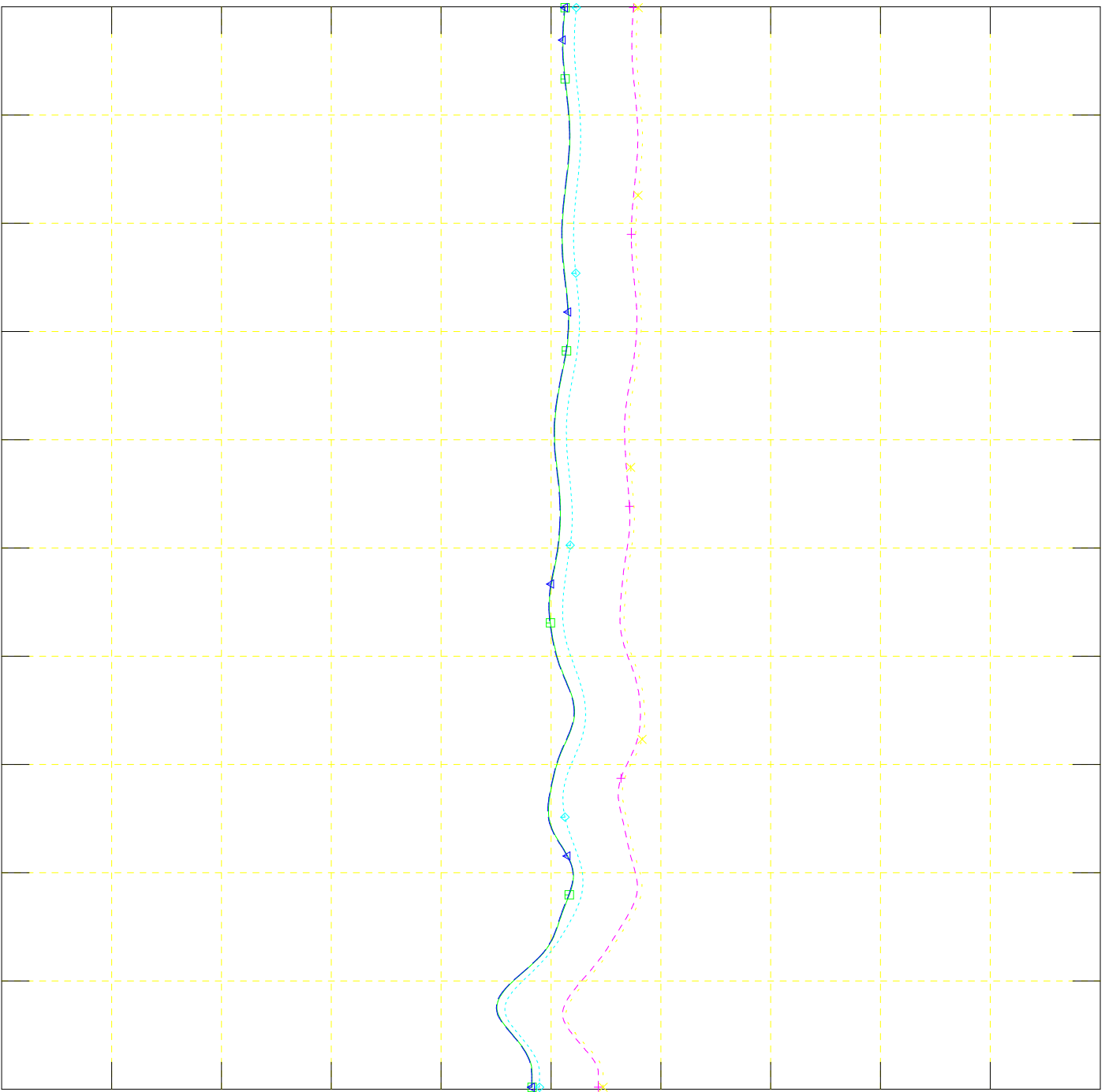
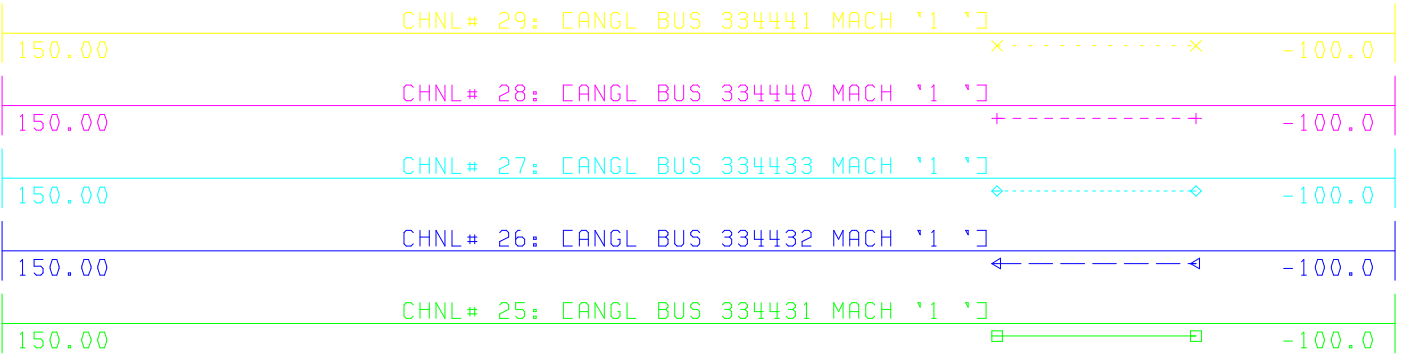
FRI, JUN 13 2008 12:46  
MACHINE ANGLES - 04



LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

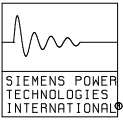
FRI, JUN 13 2008 12:46  
MACHINE ANGLES - 05



150.00  
150.00  
150.00  
150.00  
150.00  
-100.00  
-100.00  
-100.00  
-100.00  
-100.00

7.0000  
6.3000  
5.6000  
4.9000  
4.2000  
3.5000  
2.8000  
2.1000  
1.4000  
0.70000  
0.0

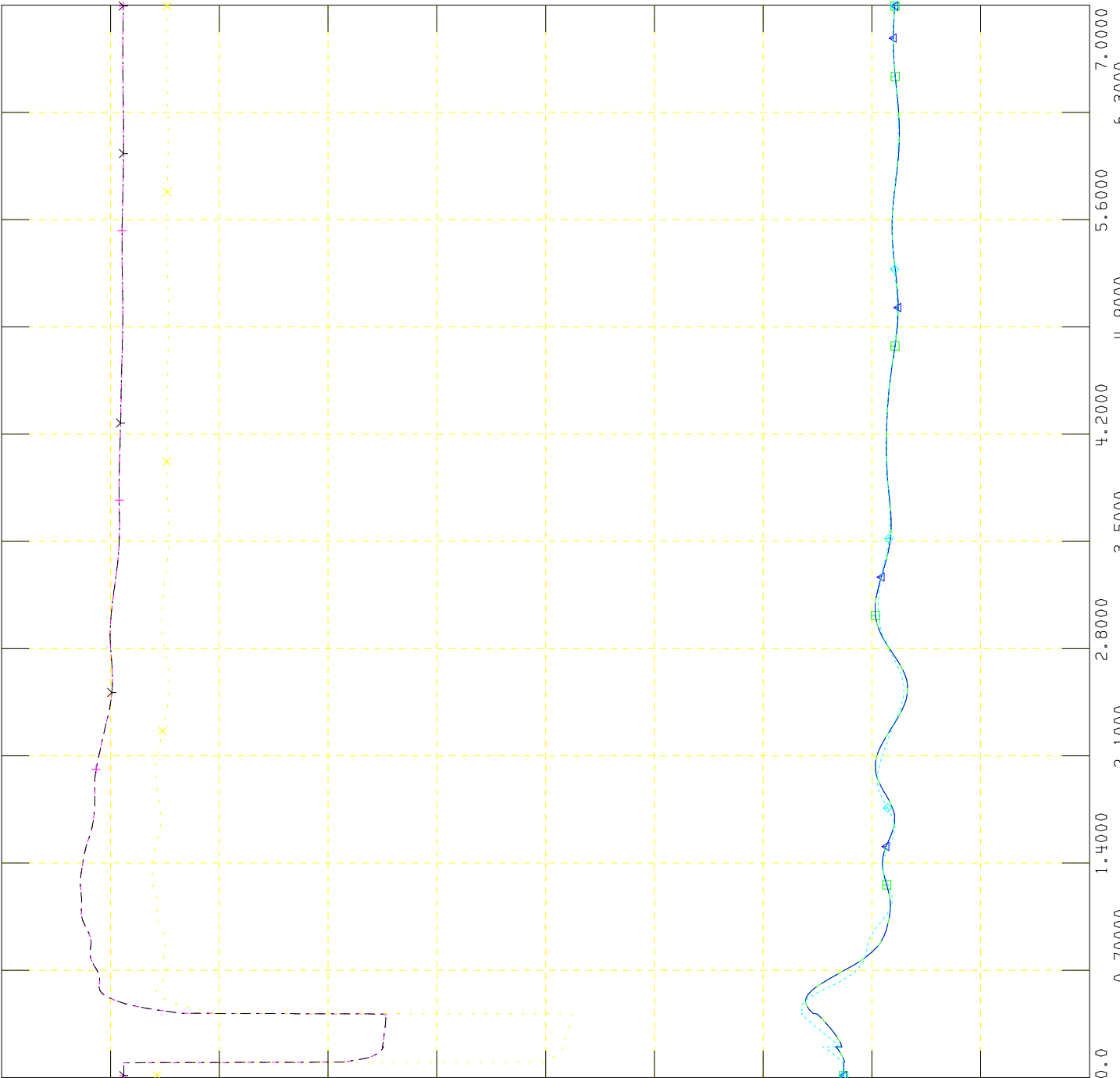
TIME (SECONDS)



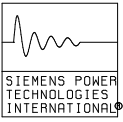
LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0



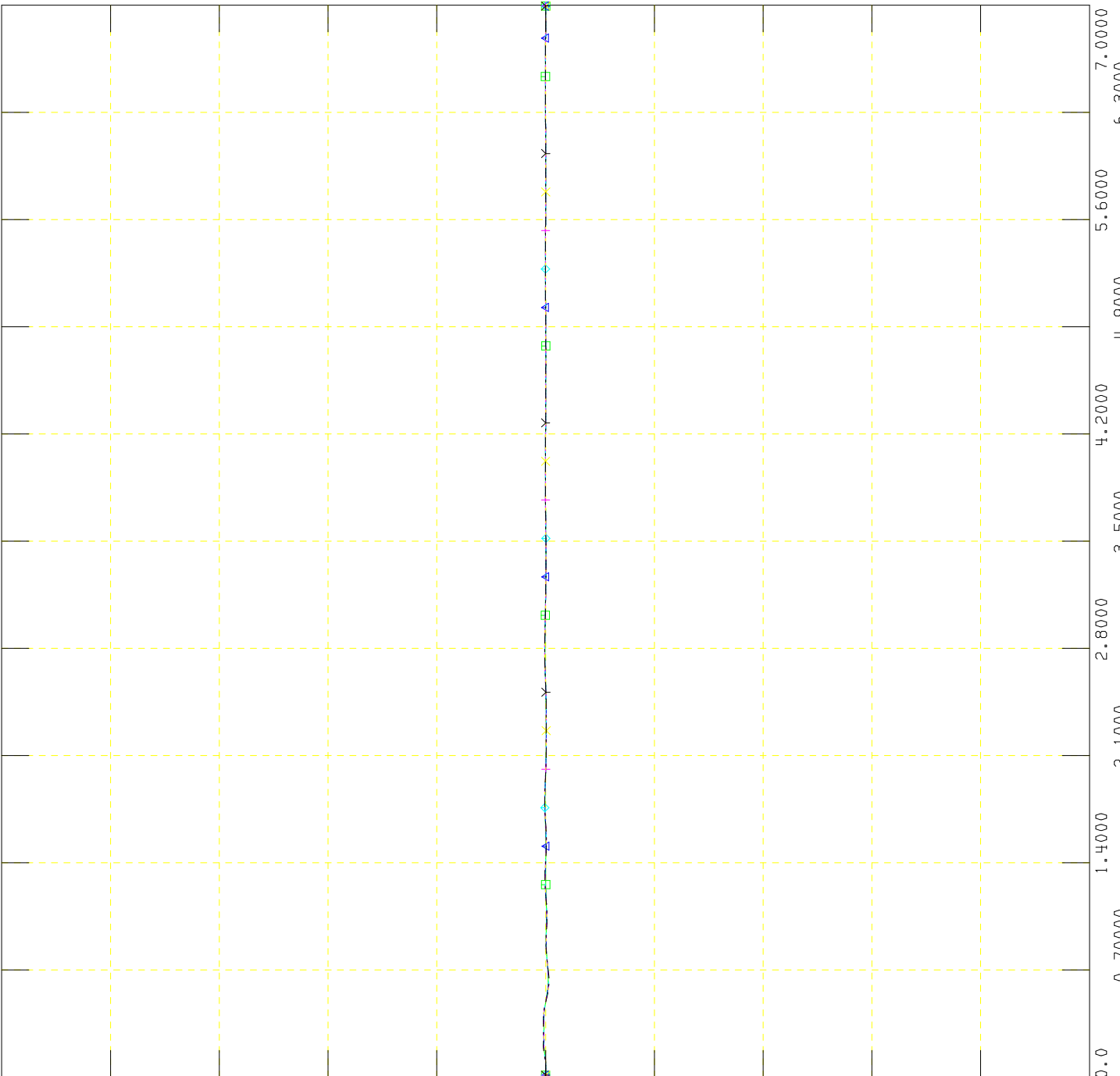
FRI, JUN 13 2008 12:46  
ANG & VOLT - PID-211 GENS



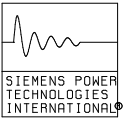
LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

Channel	FREQ	Value
CHNL# 41	CFREQ 334065 C4LACON	138.00
CHNL# 40	CFREQ 334064 C8LNG 413	138.00
CHNL# 39	CFREQ 334063 C4EVGRN*	138.00
CHNL# 38	CFREQ 334062 C4TEMCO	138.00
CHNL# 37	CFREQ 334061 C4GOREE	138.00
CHNL# 36	CFREQ 334060 C4MT.ZION	138.00



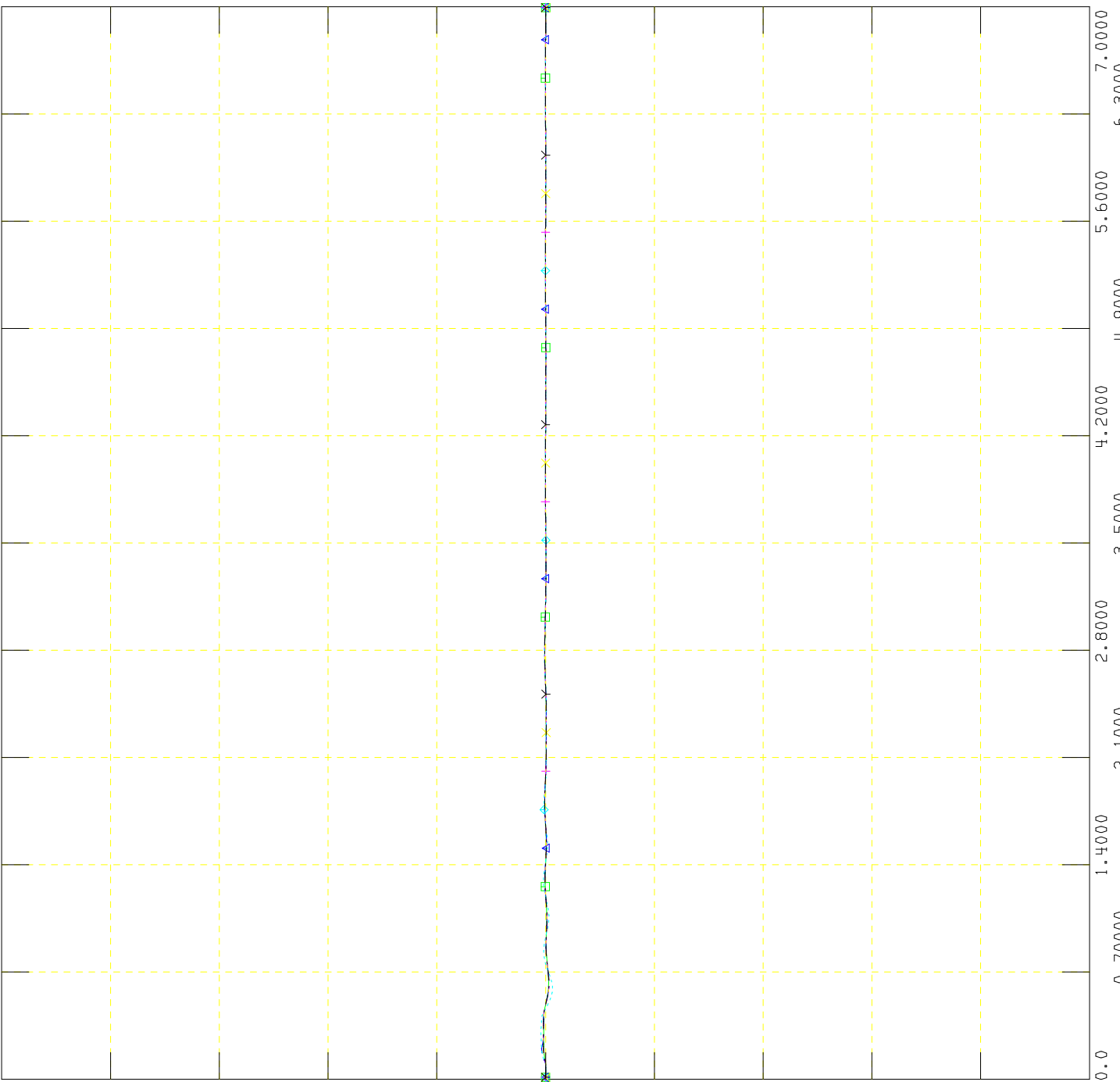
FRI, JUN 13 2008 12:46  
MACHINE FREQUENCIES - 01



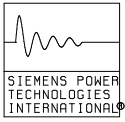
LC  
 LC-GENUNIT1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000
0.50000	CHNL# 46: [FREQ 334073 [4EGYPT 138.00]]	-0.50000
0.50000	CHNL# 45: [FREQ 334072 [4LEWIS 138.00]]	-0.50000
0.50000	CHNL# 44: [FREQ 334071 [G2LEWIS 22.00]]	-0.50000
0.50000	CHNL# 43: [FREQ 334070 [G1LEWIS 22.00]]	-0.50000
0.50000	CHNL# 42: [FREQ 334066 [4GEORGIA 138.00]]	-0.50000



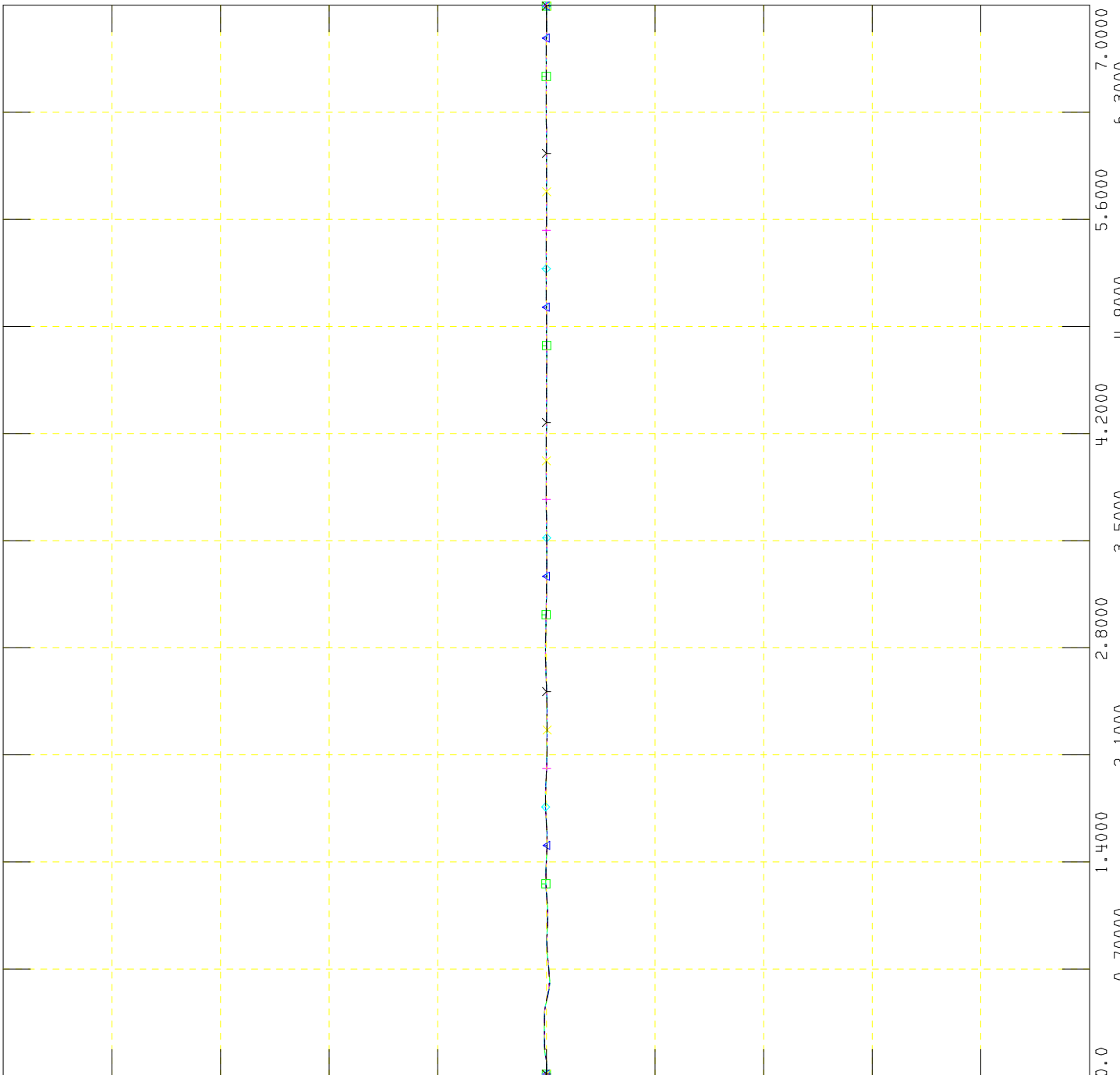
FRI, JUN 13 2008 12:46  
 MACHINE FREQUENCIES - 02



LC  
 LC-GENUNIT1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

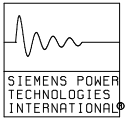
0.50000	CHNL# 52: [FREQ 334079 [4FWPIPE 138.00]]	-0.50000
0.50000	CHNL# 51: [FREQ 334078 [4SHEAWIL 138.00]]	-0.50000
0.50000	CHNL# 50: [FREQ 334077 [4PECHCK# 138.00]]	-0.50000
0.50000	CHNL# 49: [FREQ 334076 [4CANEYCK 138.00]]	-0.50000
0.50000	CHNL# 48: [FREQ 334075 [4LONGMIR 138.00]]	-0.50000
0.50000	CHNL# 47: [FREQ 334074 [4PANORAM 138.00]]	-0.50000



FRI, JUN 13 2008 12:46  
 MACHINE FREQUENCIES - 03

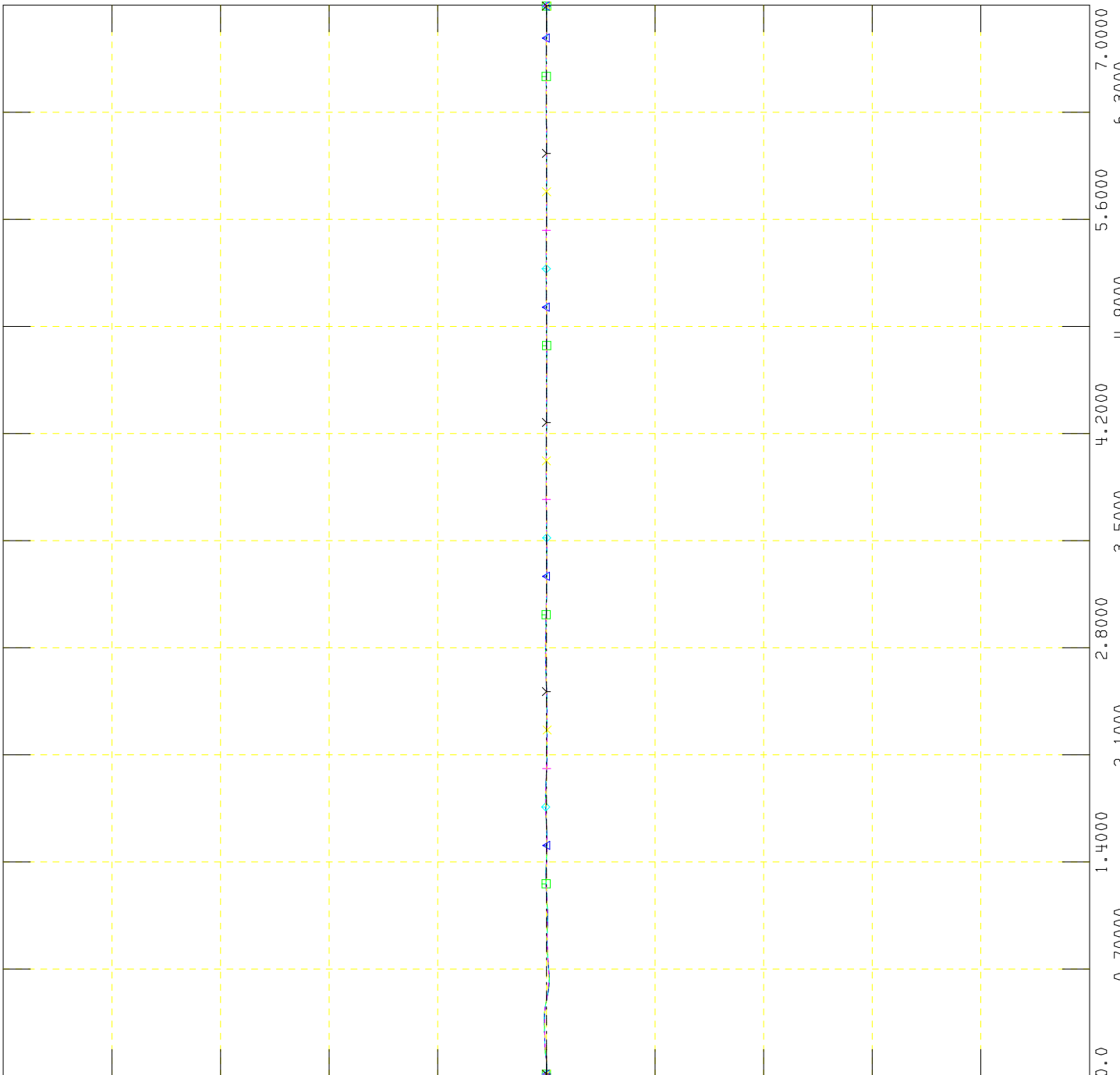
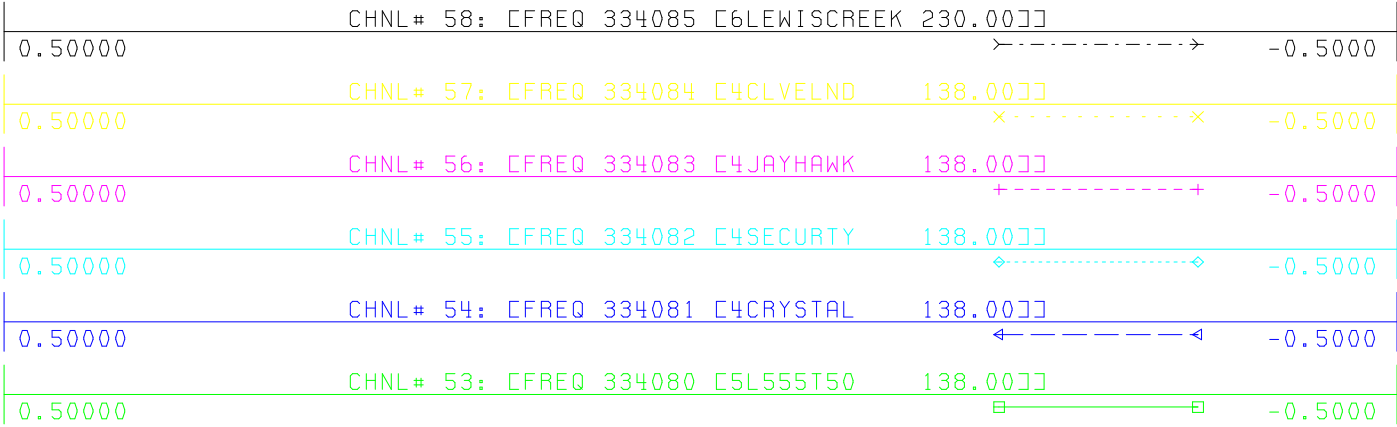
TIME (SECONDS)





LC  
 LC-GENUNIT1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out  
 CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 12:46  
 MACHINE FREQUENCIES - 04

TIME (SECONDS)

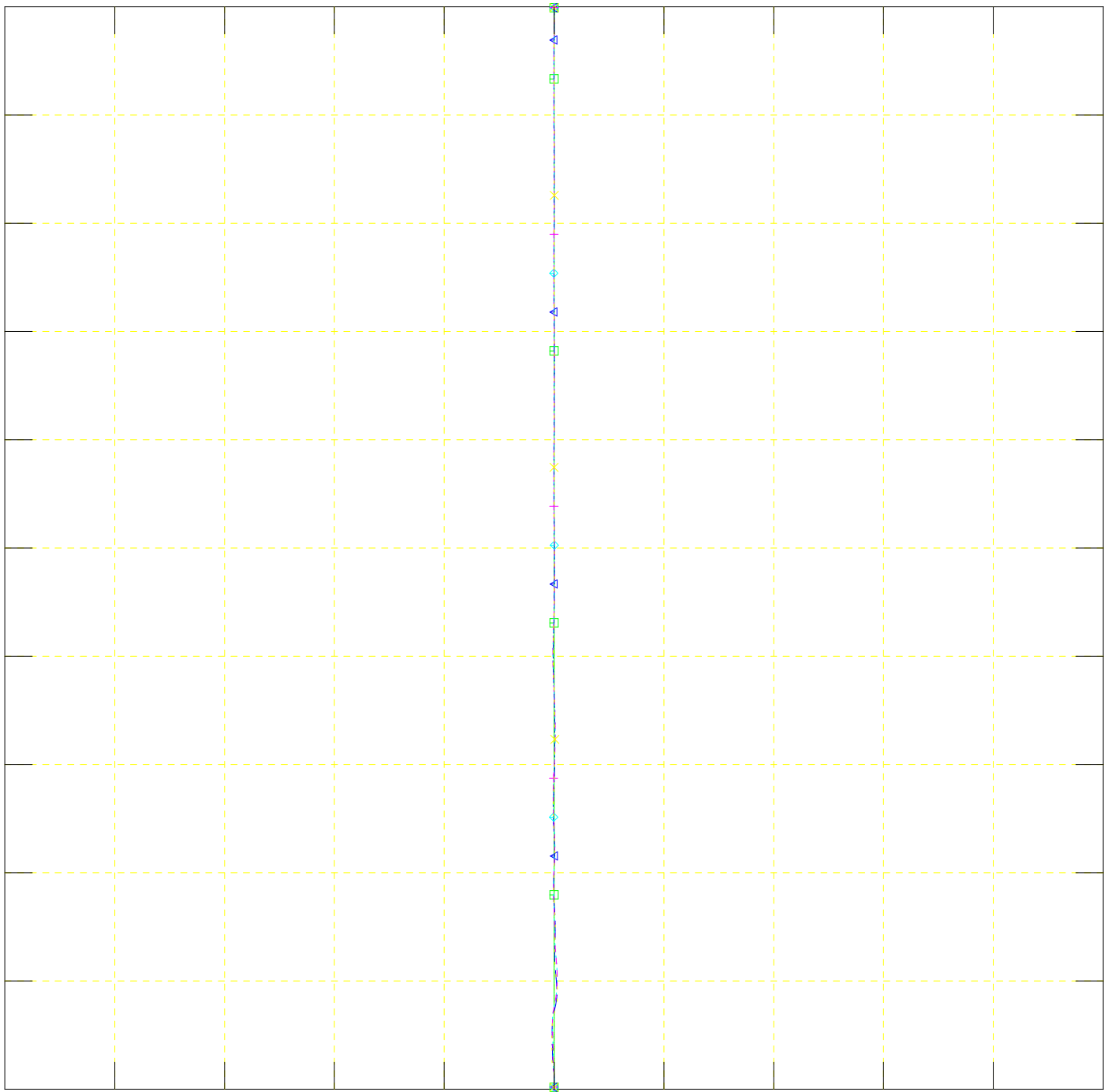


LC  
 LC-GENUNIT1 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

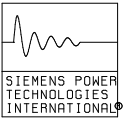
FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

FRI, JUN 13 2008 12:46  
 MACHINE FREQUENCIES - 05

0.50000	CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	x-----x	-0.5000
0.50000	CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	+-----+	-0.5000
0.50000	CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	◇-----◇	-0.5000
0.50000	CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	←-----←	-0.5000
0.50000	CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	▣-----▣	-0.5000



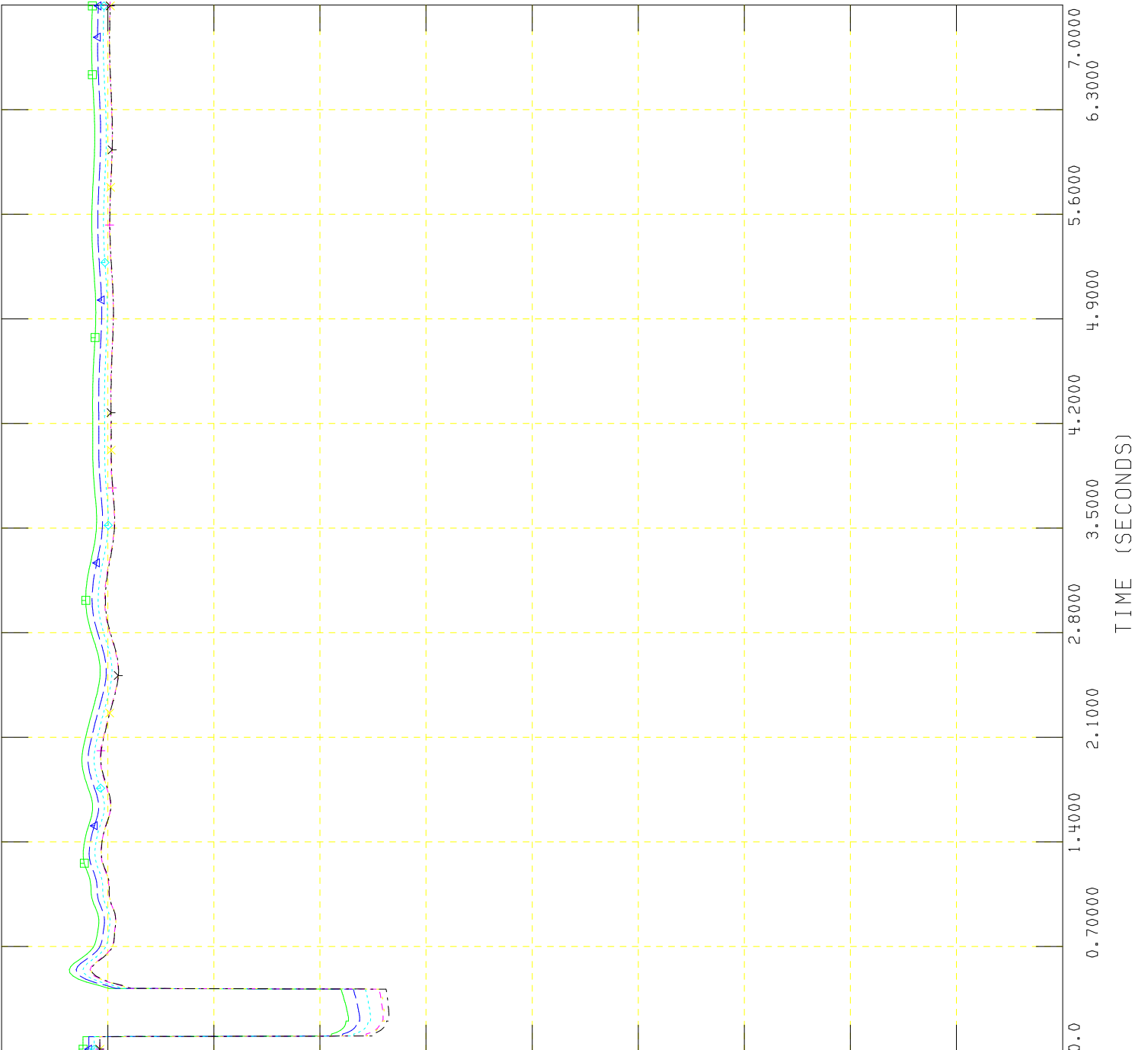
7.0000  
6.3000  
5.6000  
4.9000  
4.2000  
3.5000  
2.8000  
2.1000  
1.4000  
0.70000  
0.0



LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



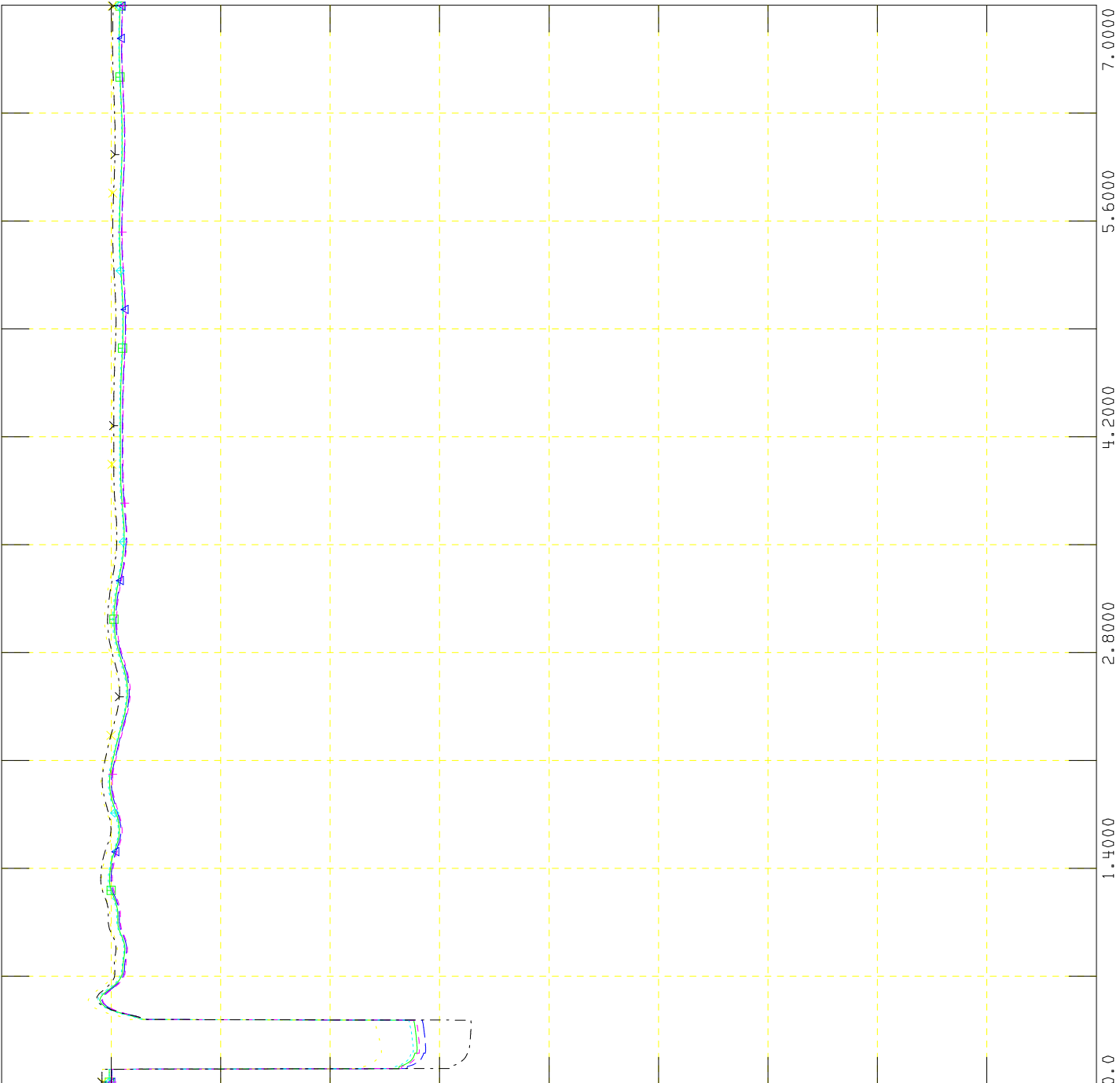
FRI, JUN 13 2008 12:46  
BUS VOLTAGES - 01



LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



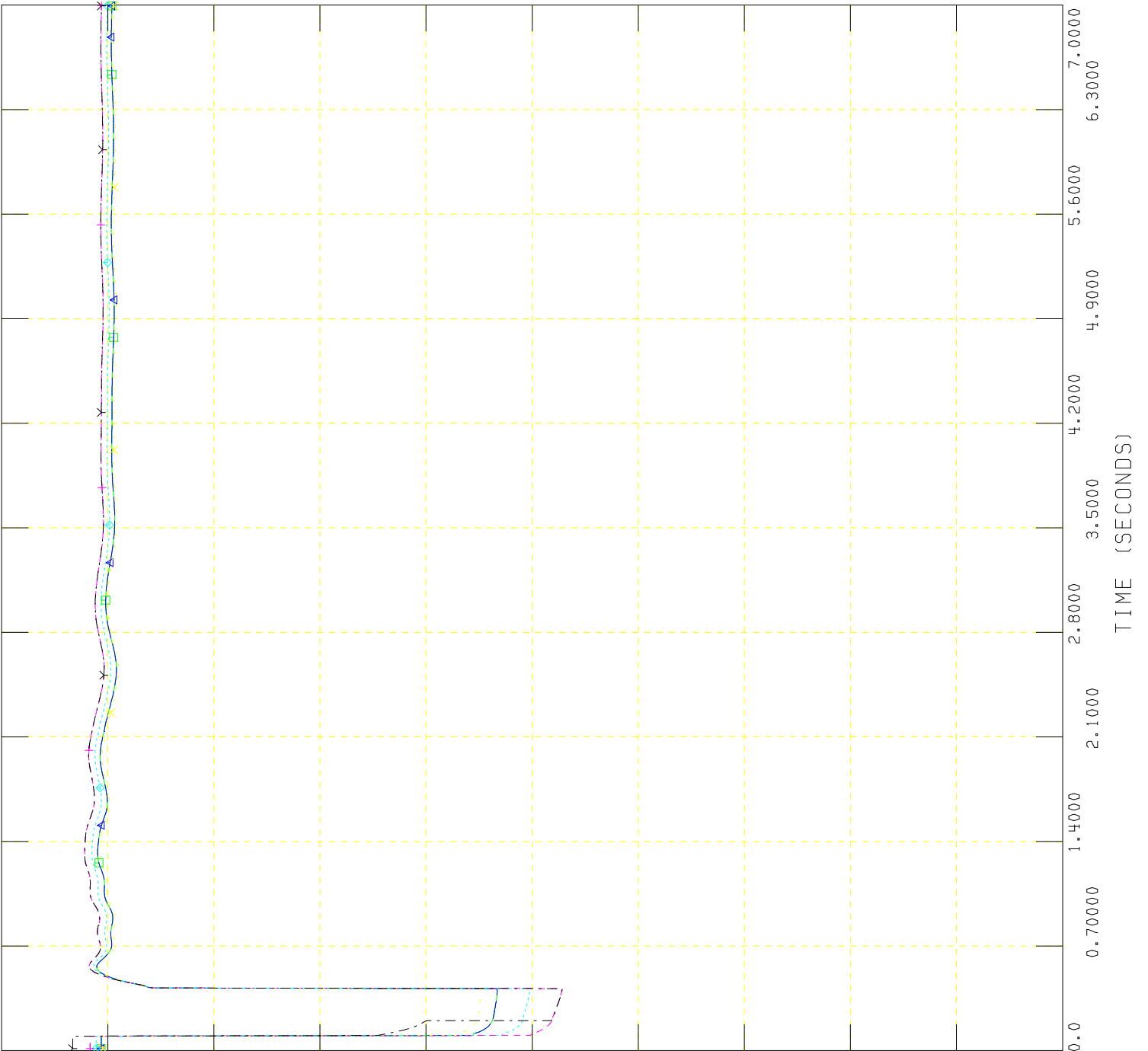
FRI, JUN 13 2008 12:46  
BUS VOLTAGES - 02



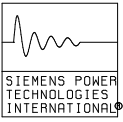
LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

Channel	Label	Value
CHNL# 81	[VOLT 334070 EG1LEWIS 22.000]]	22.000
CHNL# 80	[VOLT 334066 C4GEORGIA 138.00]]	138.00
CHNL# 79	[VOLT 334065 C4LACON 138.00]]	138.00
CHNL# 78	[VOLT 334064 E8LNG 413 138.00]]	138.00
CHNL# 77	[VOLT 334063 C4EVGRN* 138.00]]	138.00
CHNL# 76	[VOLT 334062 C4TEMCO 138.00]]	138.00



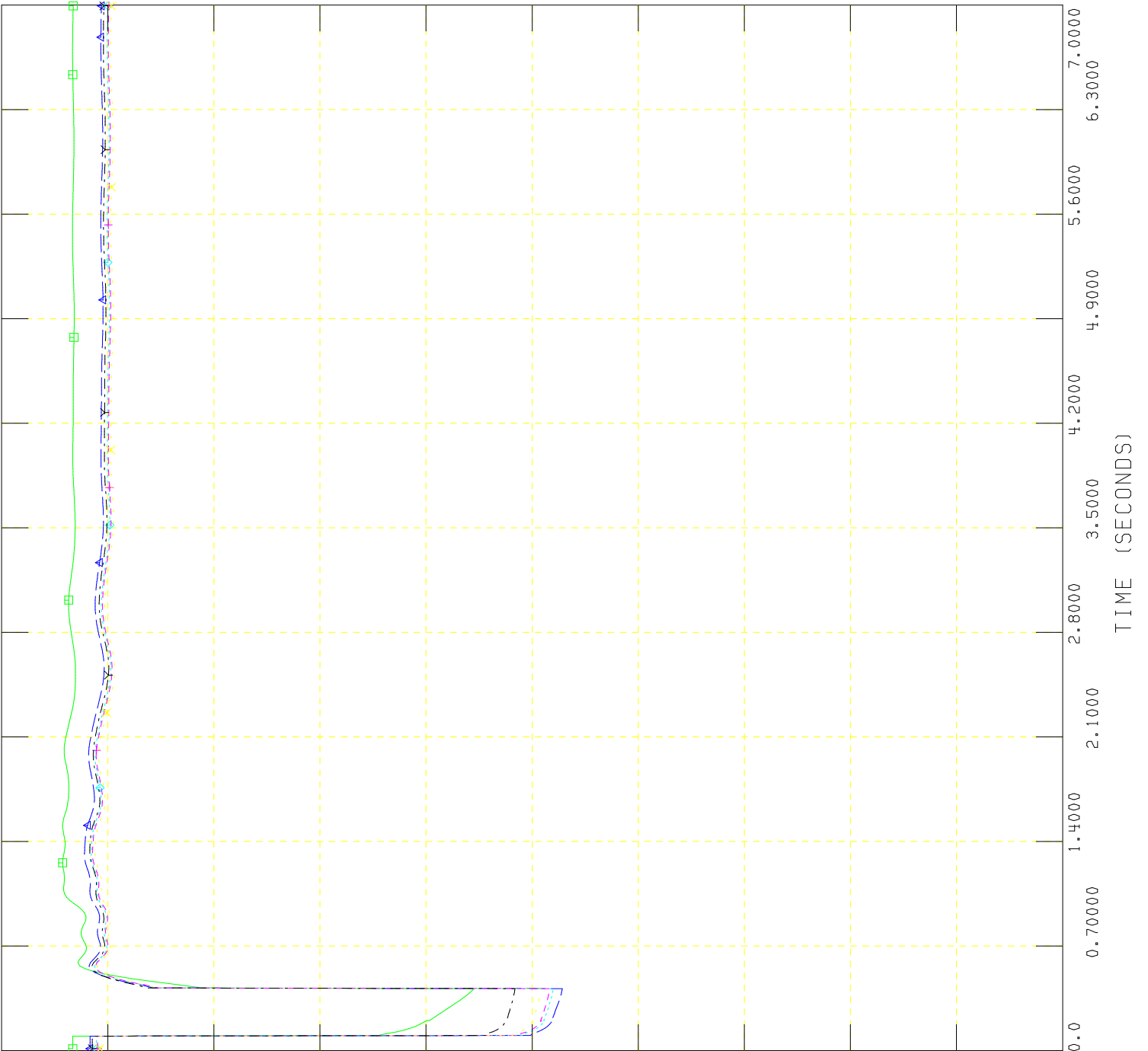
FRI, JUN 13 2008 12:46  
BUS VOLTAGES - 03



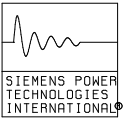
LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



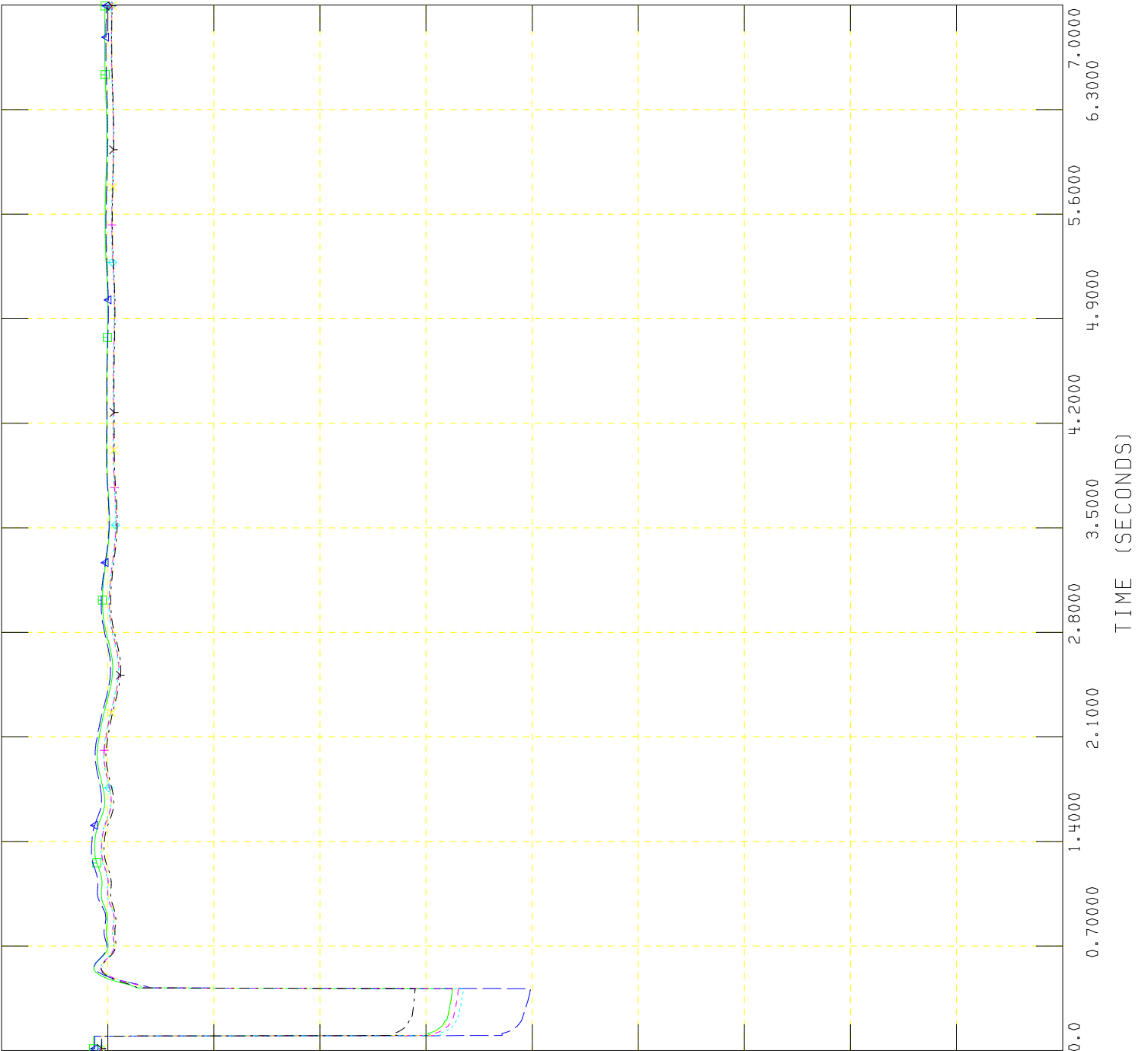
FRI, JUN 13 2008 12:46  
BUS VOLTAGES - 04



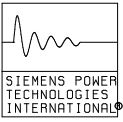
LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



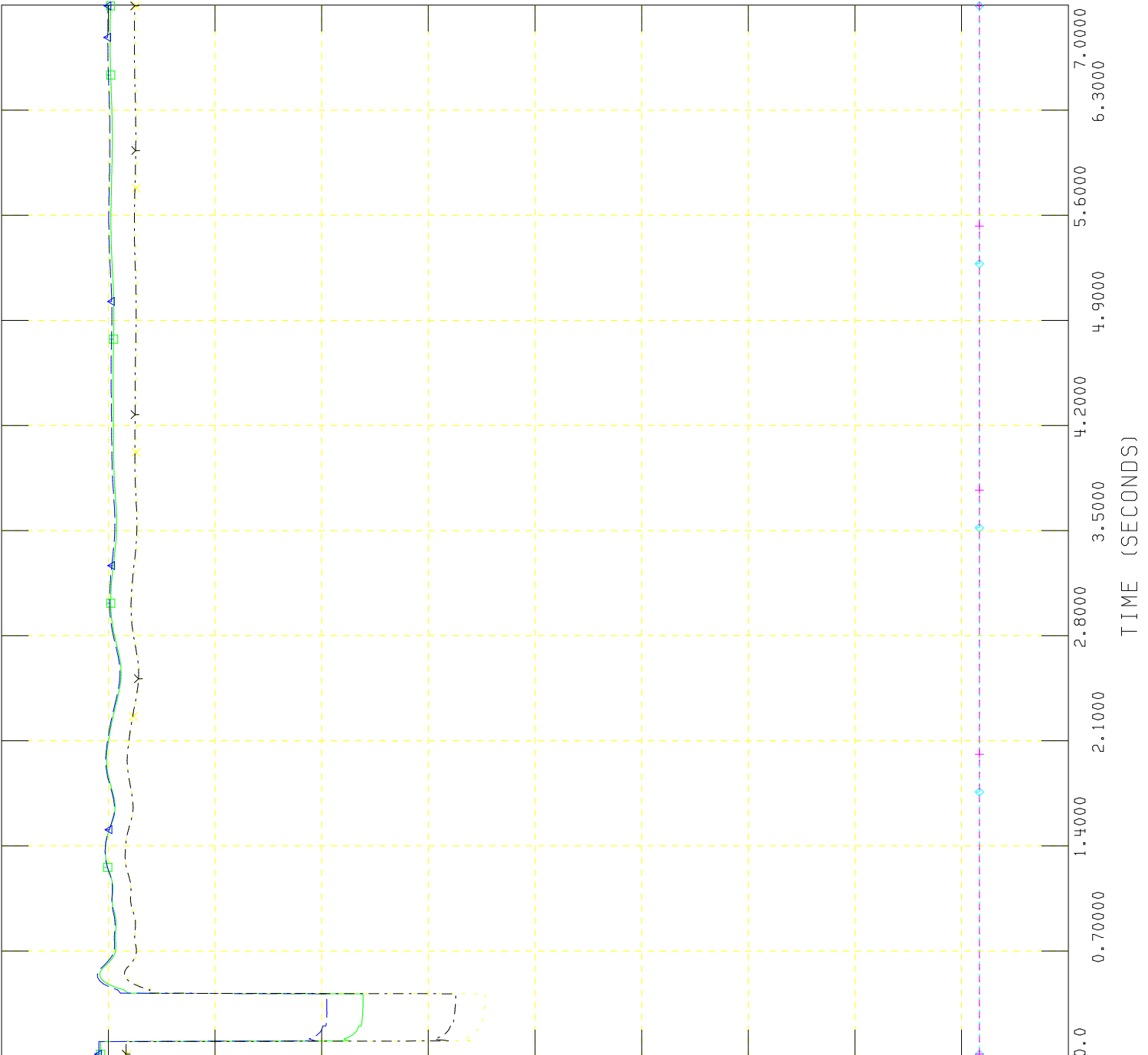
FRI, JUN 13 2008 12:46  
BUS VOLTAGES - 05



LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

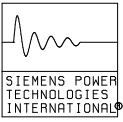
FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



FRI, JUN 13 2008 12:46  
BUS VOLTAGES - 06

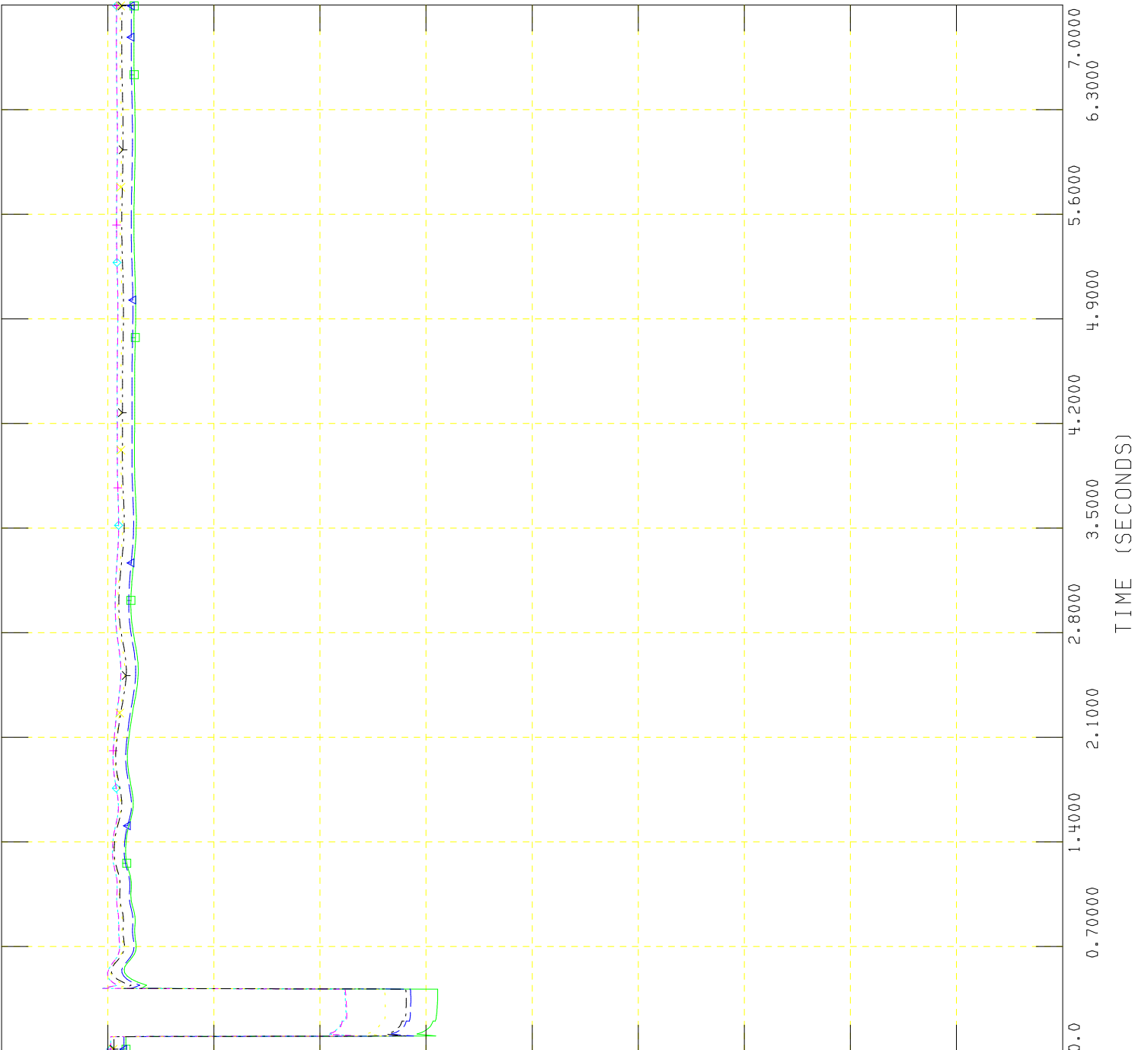




LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



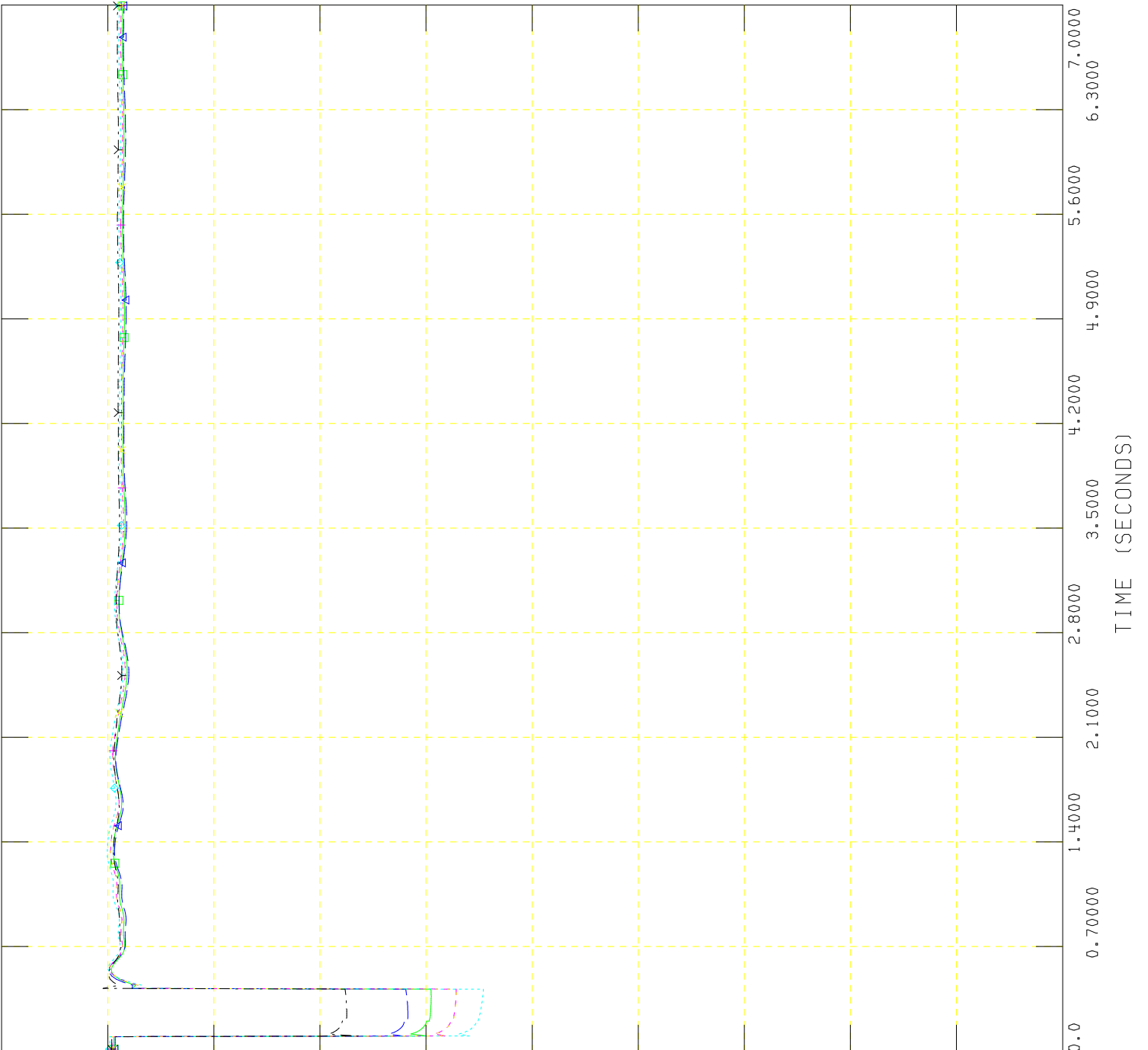
FRI, JUN 13 2008 12:46  
BUS VOLTAGES - 07



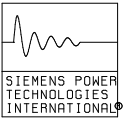
LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



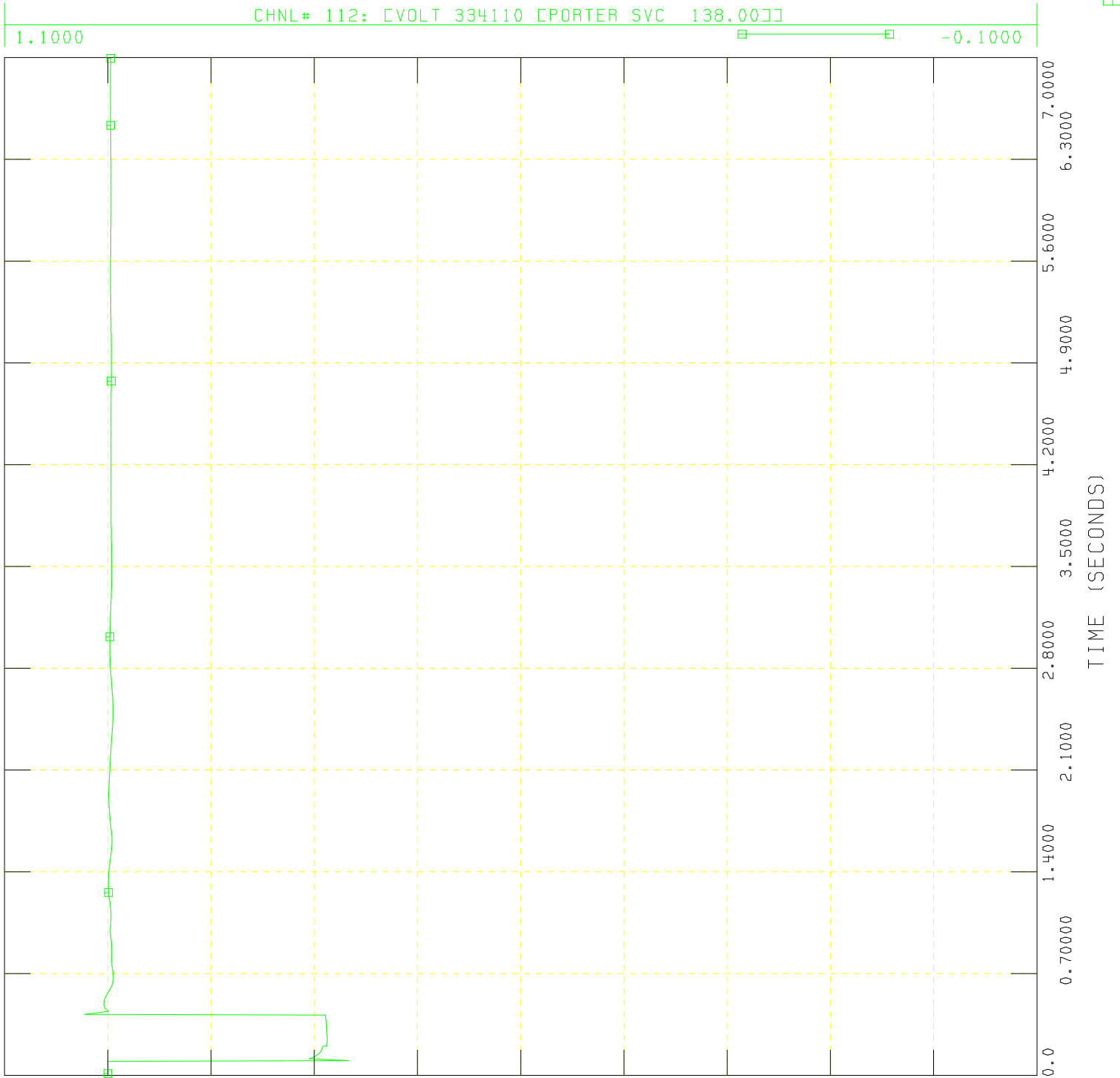
FRI, JUN 13 2008 12:46  
BUS VOLTAGES - 08



LC  
LC-GENUNIT1 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit1-1a.out

FRI, JUN 13 2008 12:46  
BUS VOLTAGES - 09



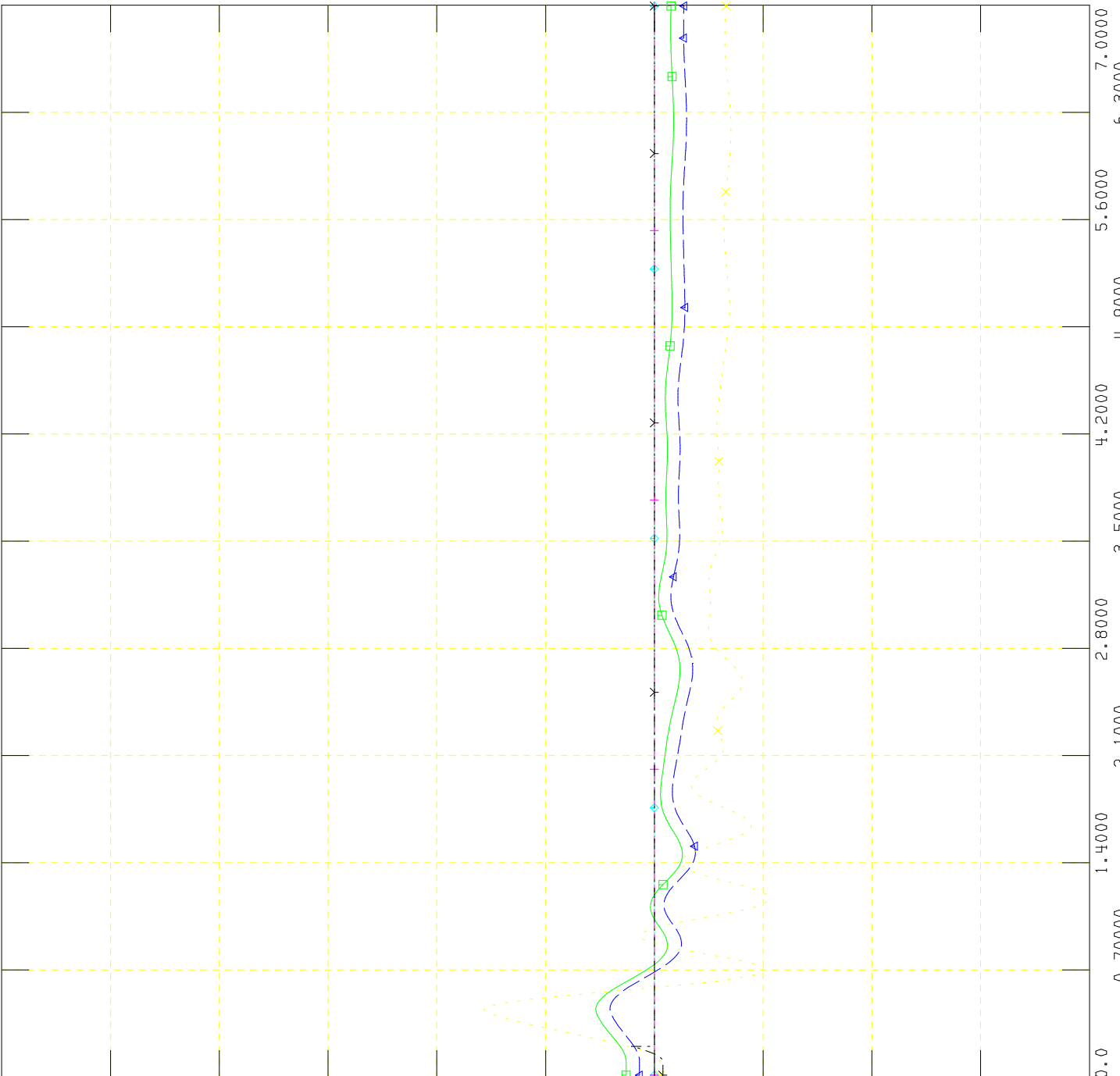
**FAULT G5a**  
**Lewis Creek 138 kV (Drop Unit 2)**  
**Stuck Breaker Conditions**  
**Delayed Clearing Times**



LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

Channel	Label	Value
6	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0
5	CHNL# 5: [ANGL BUS 334070 MACH '1 ']	-100.0
4	CHNL# 4: [ANGL BUS 334033 MACH '1 ']	-100.0
3	CHNL# 3: [ANGL BUS 334032 MACH '1 ']	-100.0
2	CHNL# 2: [ANGL BUS 334031 MACH '1 ']	-100.0
1	CHNL# 1: [ANGL BUS 334030 MACH '1 ']	-100.0



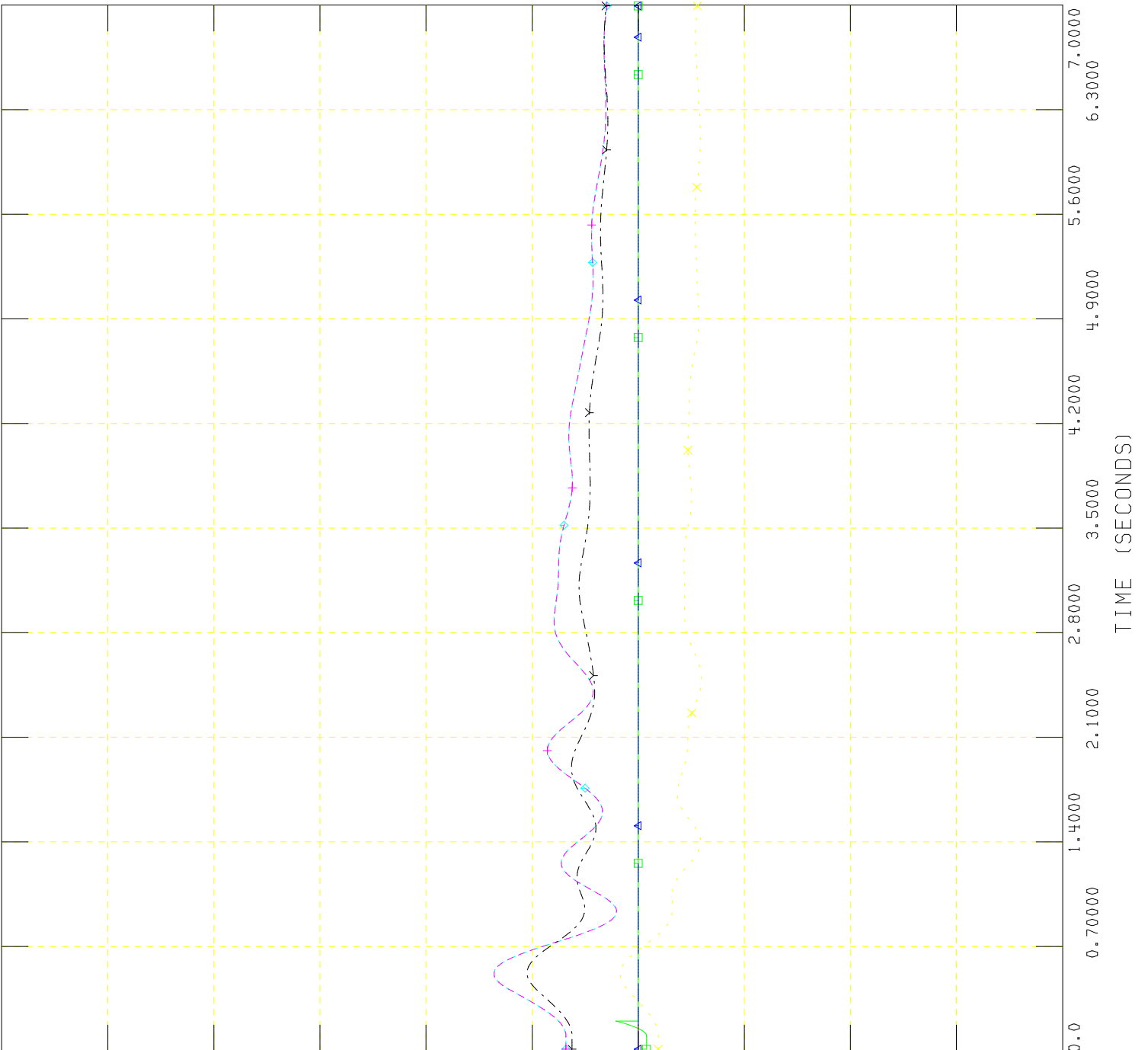
FRI, JUN 13 2008 14:38  
MACHINE ANGLES - 01



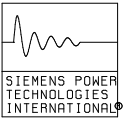
LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

Channel	Label	Value
150.00	CHNL# 11: [ANGL BUS 334298 MACH '1 ']	-100.0
150.00	CHNL# 10: [ANGL BUS 334282 MACH '1 ']	-100.0
150.00	CHNL# 9: [ANGL BUS 334244 MACH '1 ']	-100.0
150.00	CHNL# 8: [ANGL BUS 334243 MACH '1 ']	-100.0
150.00	CHNL# 7: [ANGL BUS 334110 MACH 'SV']	-100.0
150.00	CHNL# 6: [ANGL BUS 334071 MACH '1 ']	-100.0

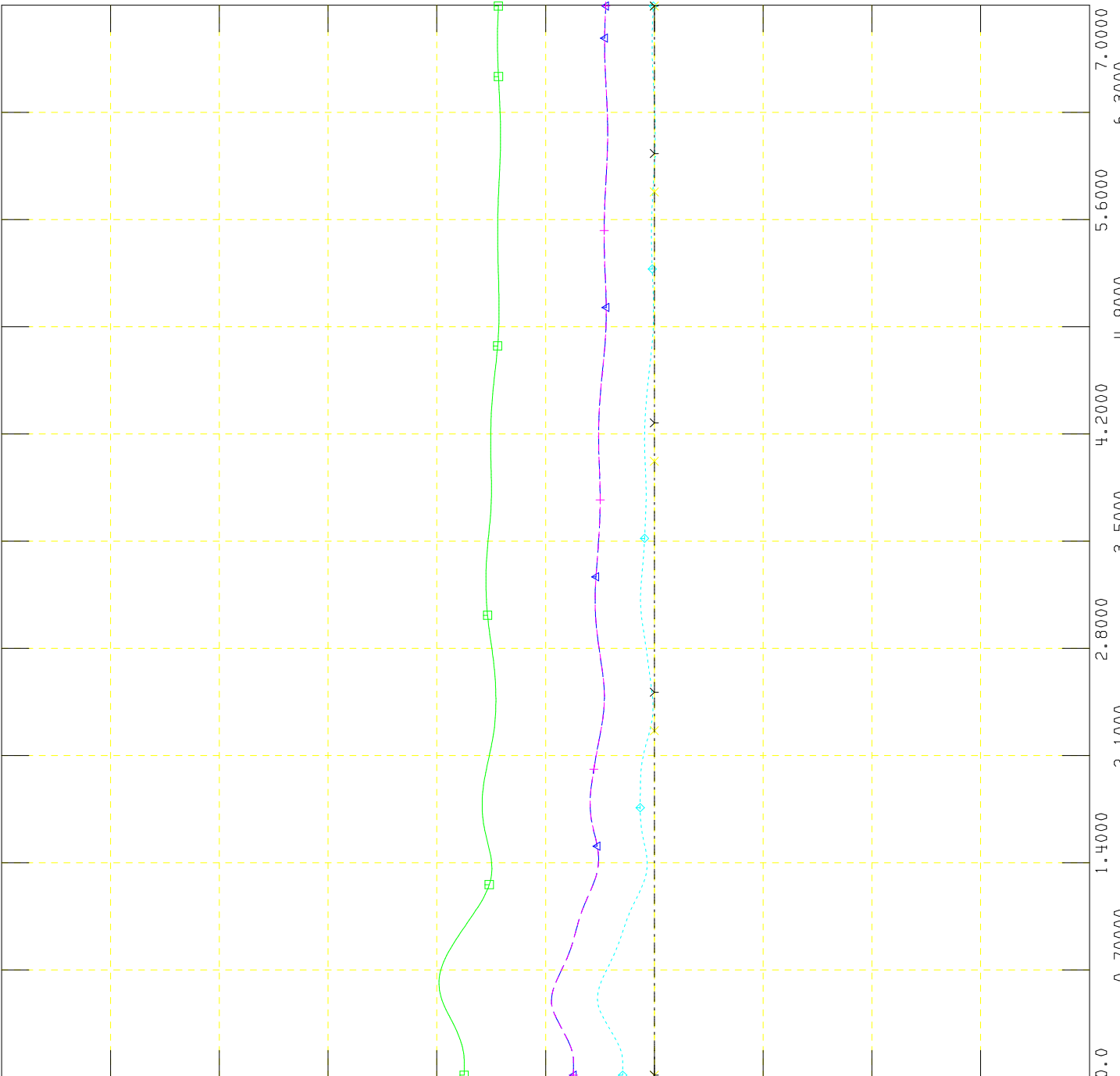
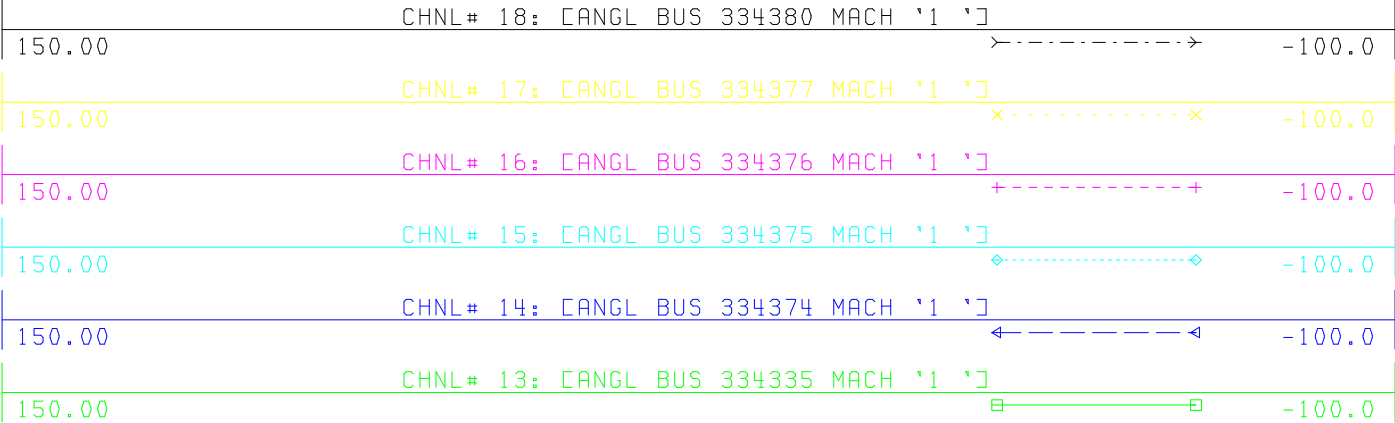


FRI, JUN 13 2008 14:38  
MACHINE ANGLES - 02

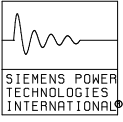


LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out



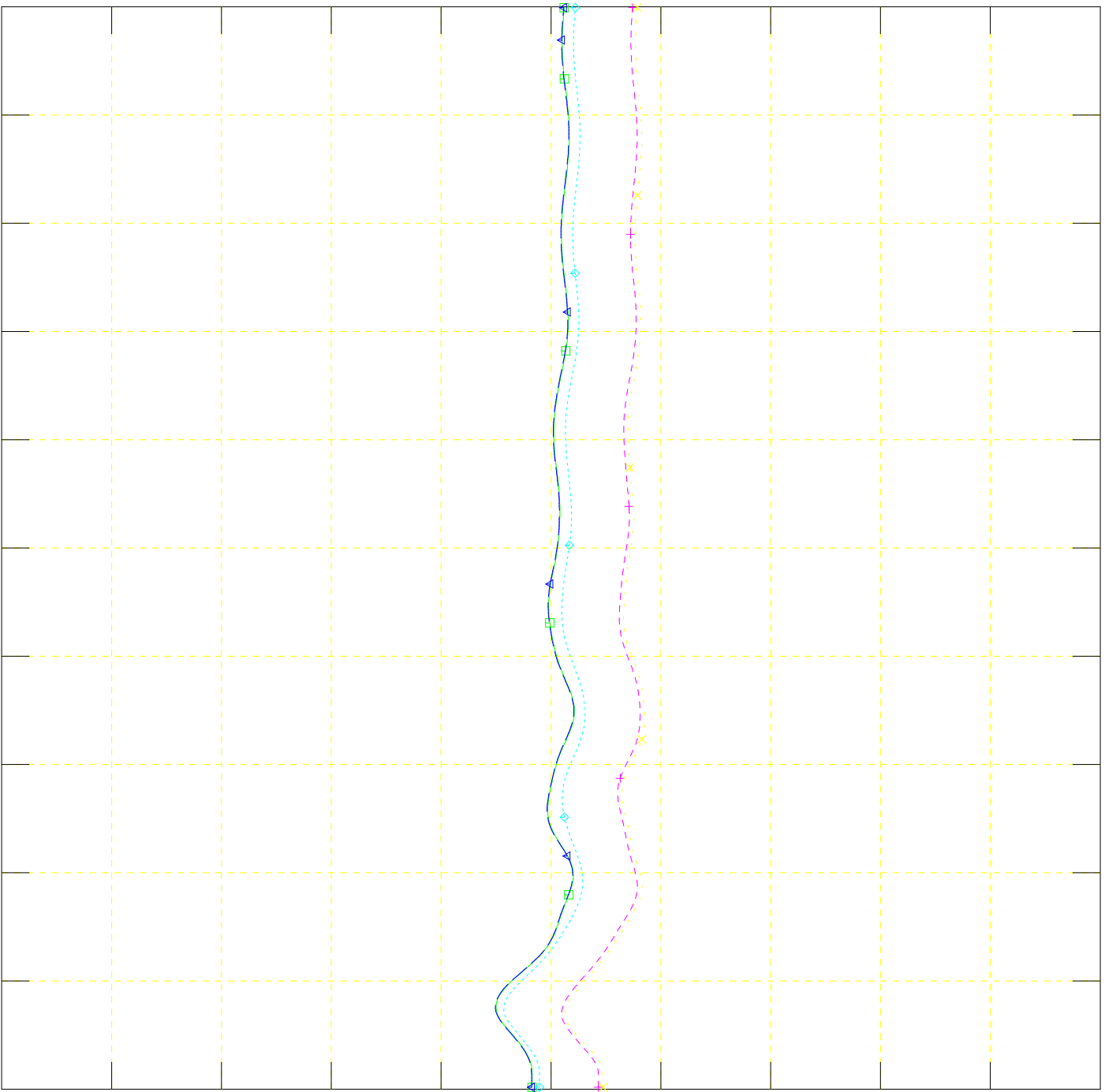
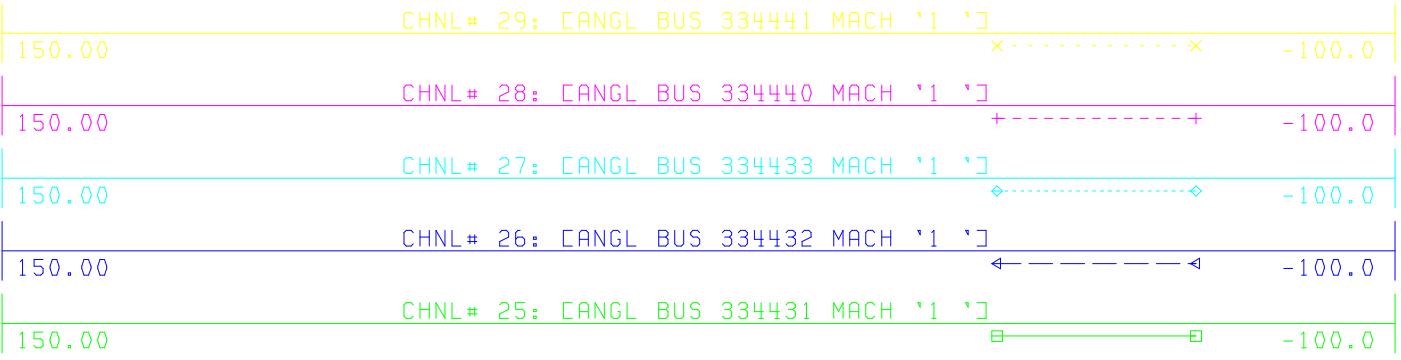
FRI, JUN 13 2008 14:38  
MACHINE ANGLES - 03



LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

FRI, JUN 13 2008 14:38  
MACHINE ANGLES - 05



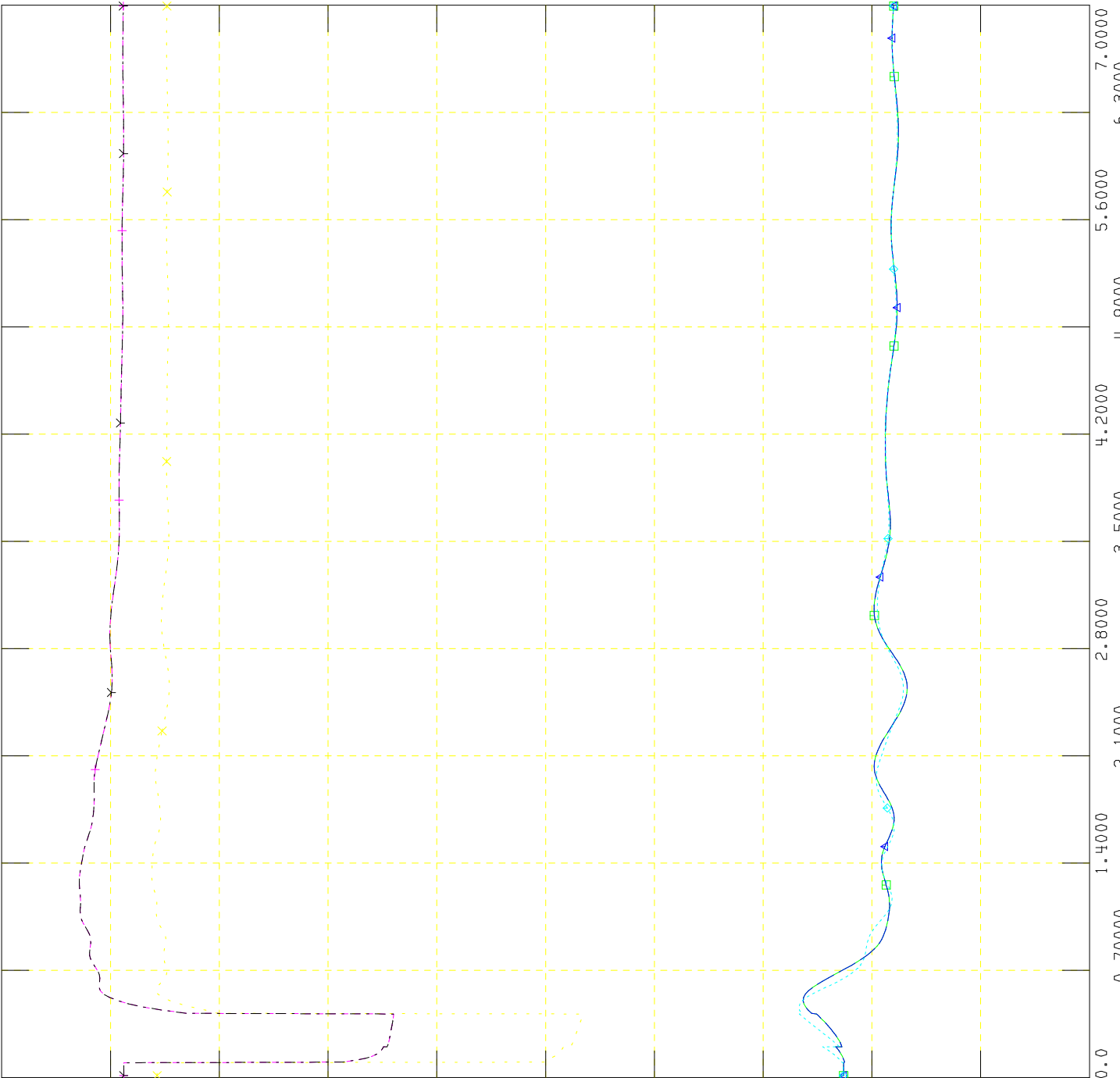




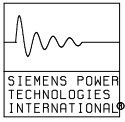
LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

1.2000	CHNL# 30: [VOLT 99181 [G1PID211 18.000]]	-0.2000
1.2000	CHNL# 34: [VOLT 99183 [G3PID211 18.000]]	-0.2000
1.2000	CHNL# 32: [VOLT 99182 [G2PID211 18.000]]	-0.2000
150.00	CHNL# 35: [ANGL 99183 [G3PID211 18.000]]	-100.0
150.00	CHNL# 33: [ANGL 99182 [G2PID211 18.000]]	-100.0
150.00	CHNL# 31: [ANGL 99181 [G1PID211 18.000]]	-100.0

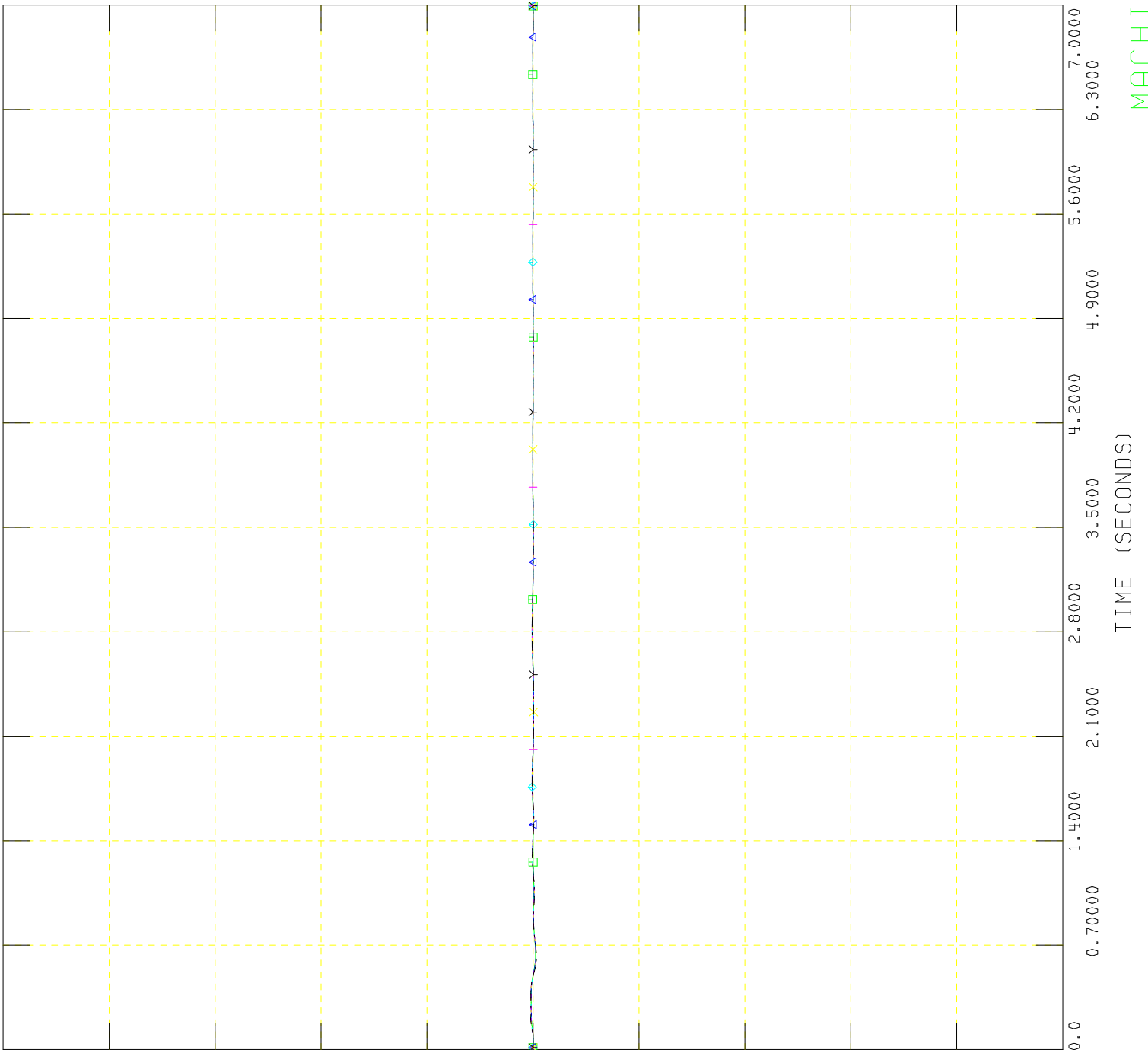
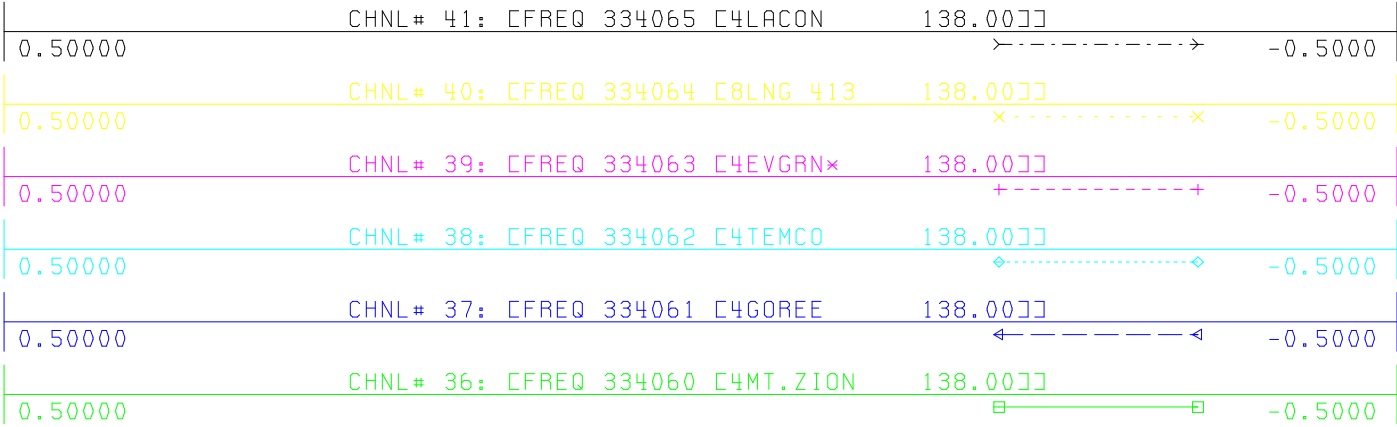


FRI, JUN 13 2008 14:38  
ANG & VOLT - PID-211 GENS

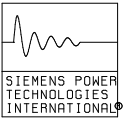


LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out



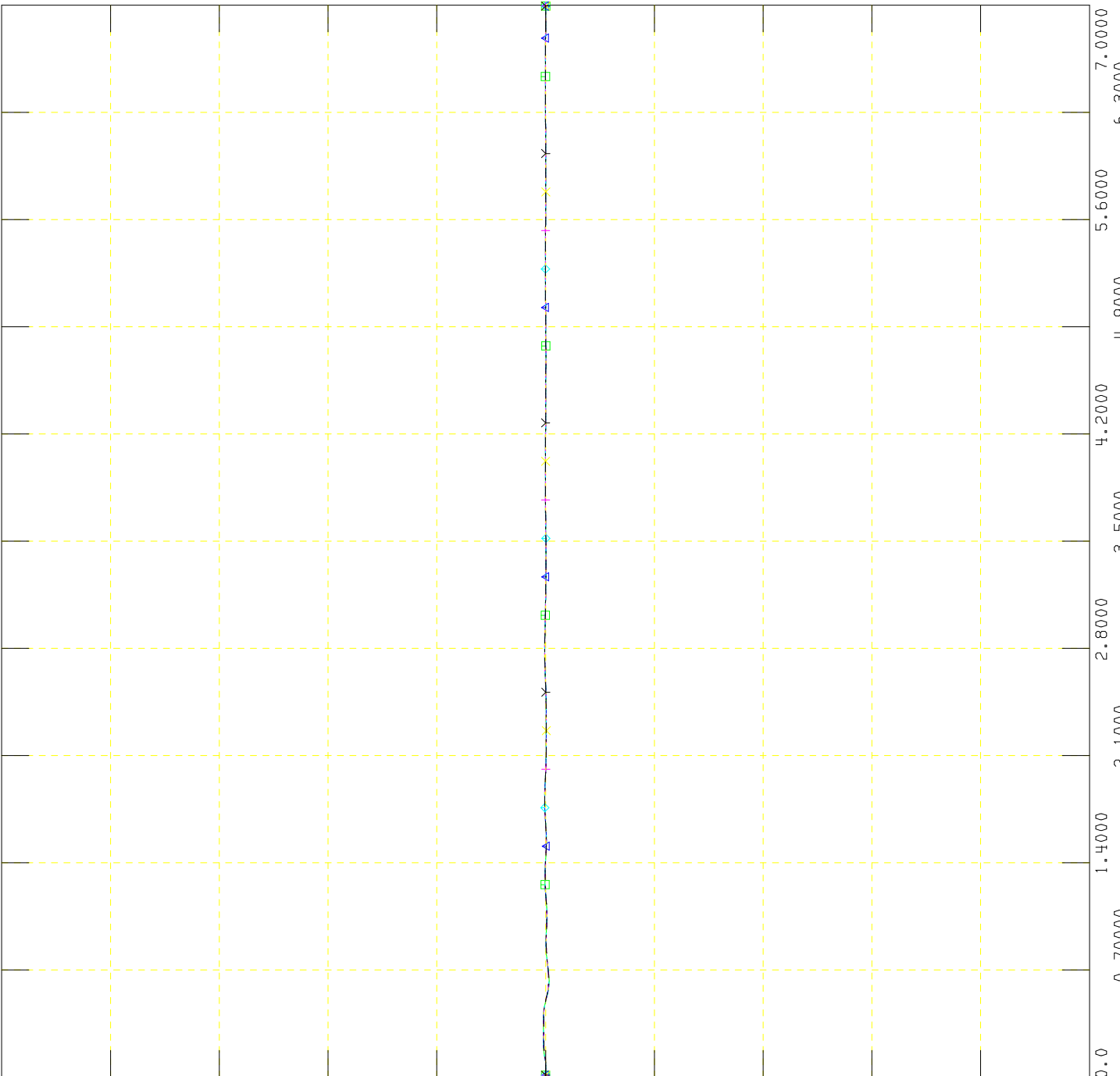
FRI, JUN 13 2008 14:38  
MACHINE FREQUENCIES - 01



LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

Channel	CFREQ	Channel Name	Value
CHNL# 52	334079	C4FWPIPE	138.00
CHNL# 51	334078	C4SHEAWIL	138.00
CHNL# 50	334077	C4PECHCK#	138.00
CHNL# 49	334076	C4CANEYCK	138.00
CHNL# 48	334075	C4LONGMIR	138.00
CHNL# 47	334074	C4PANORAM	138.00



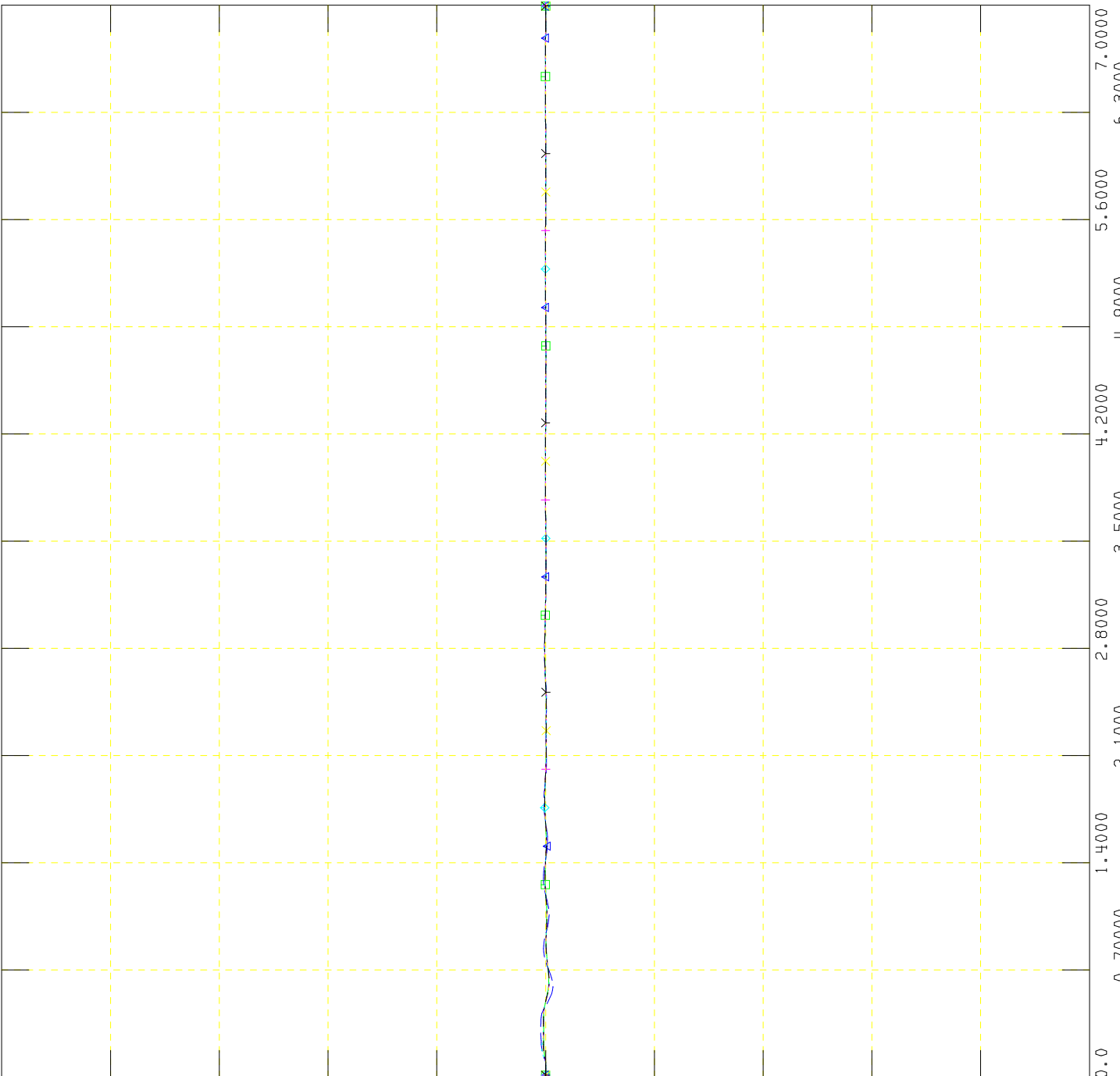
FRI, JUN 13 2008 14:38  
MACHINE FREQUENCIES - 03



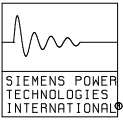
LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

Channel	Frequency (Hz)	Phase (degrees)
CHNL# 47: CFREQ 334074 C4PANORAM	138.00	138.00
CHNL# 46: CFREQ 334073 C4EGYPT	138.00	138.00
CHNL# 45: CFREQ 334072 C4LEWIS	138.00	138.00
CHNL# 44: CFREQ 334071 C62LEWIS	22.00	22.00
CHNL# 43: CFREQ 334070 C61LEWIS	22.00	22.00
CHNL# 42: CFREQ 334066 C4GEORGIA	138.00	138.00

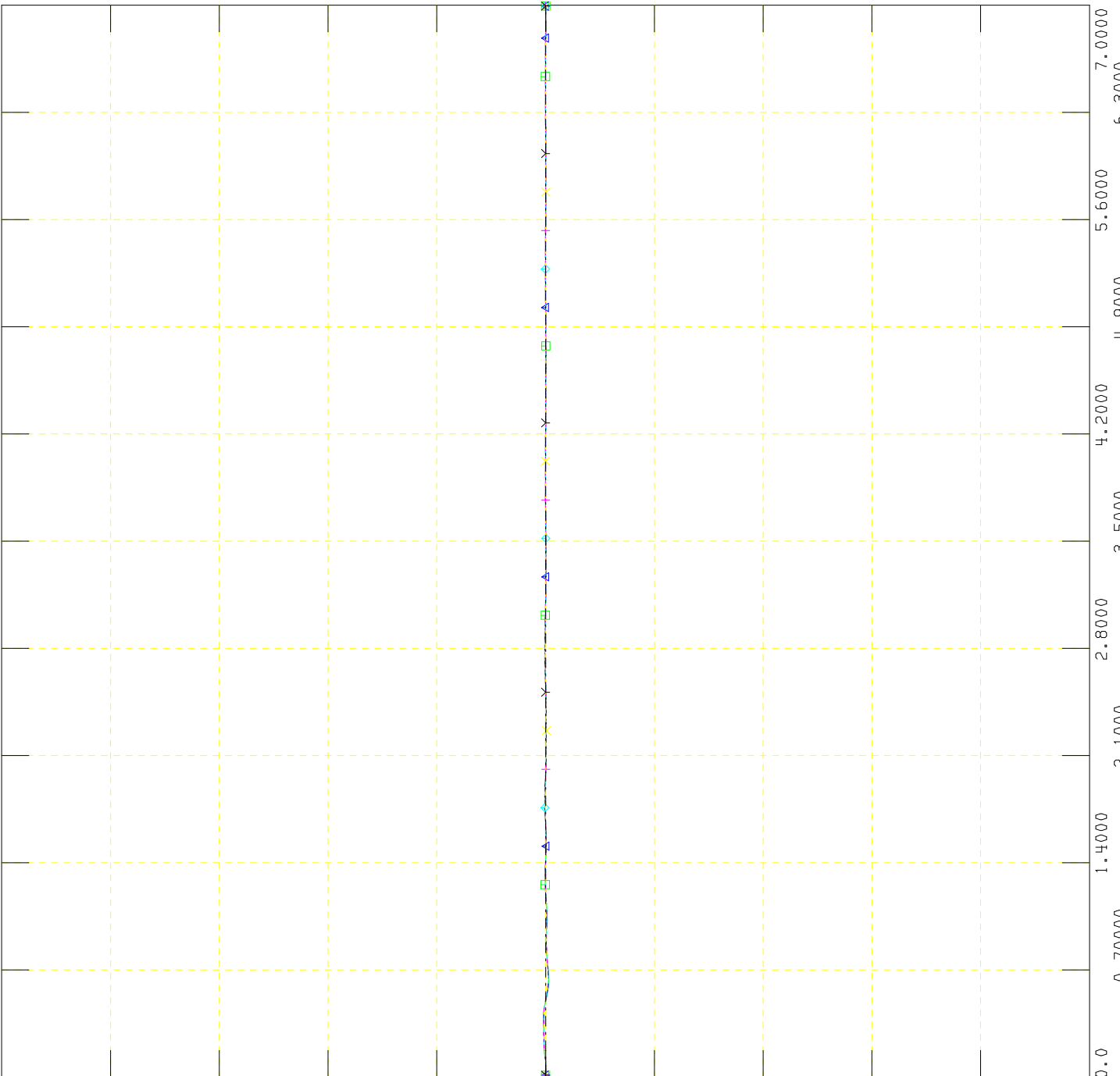
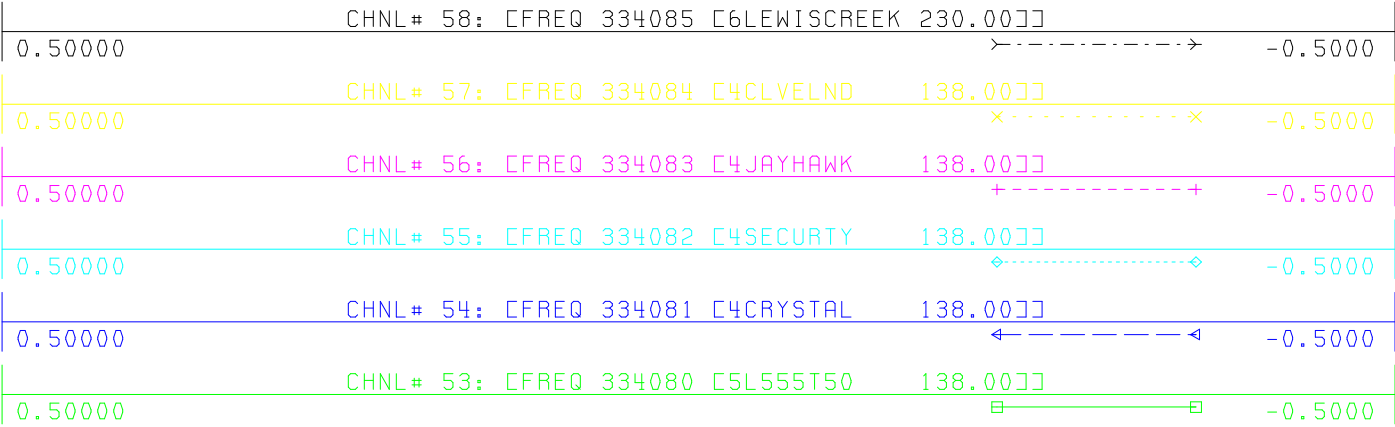


FRI, JUN 13 2008 14:38  
MACHINE FREQUENCIES - 02

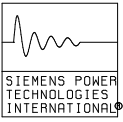


LC  
 LC-GENUNIT2 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out  
 CHNL# 58: [FREQ 334085 [6LEWISCREEK 230.00]]



FRI, JUN 13 2008 14:38  
 MACHINE FREQUENCIES - 04

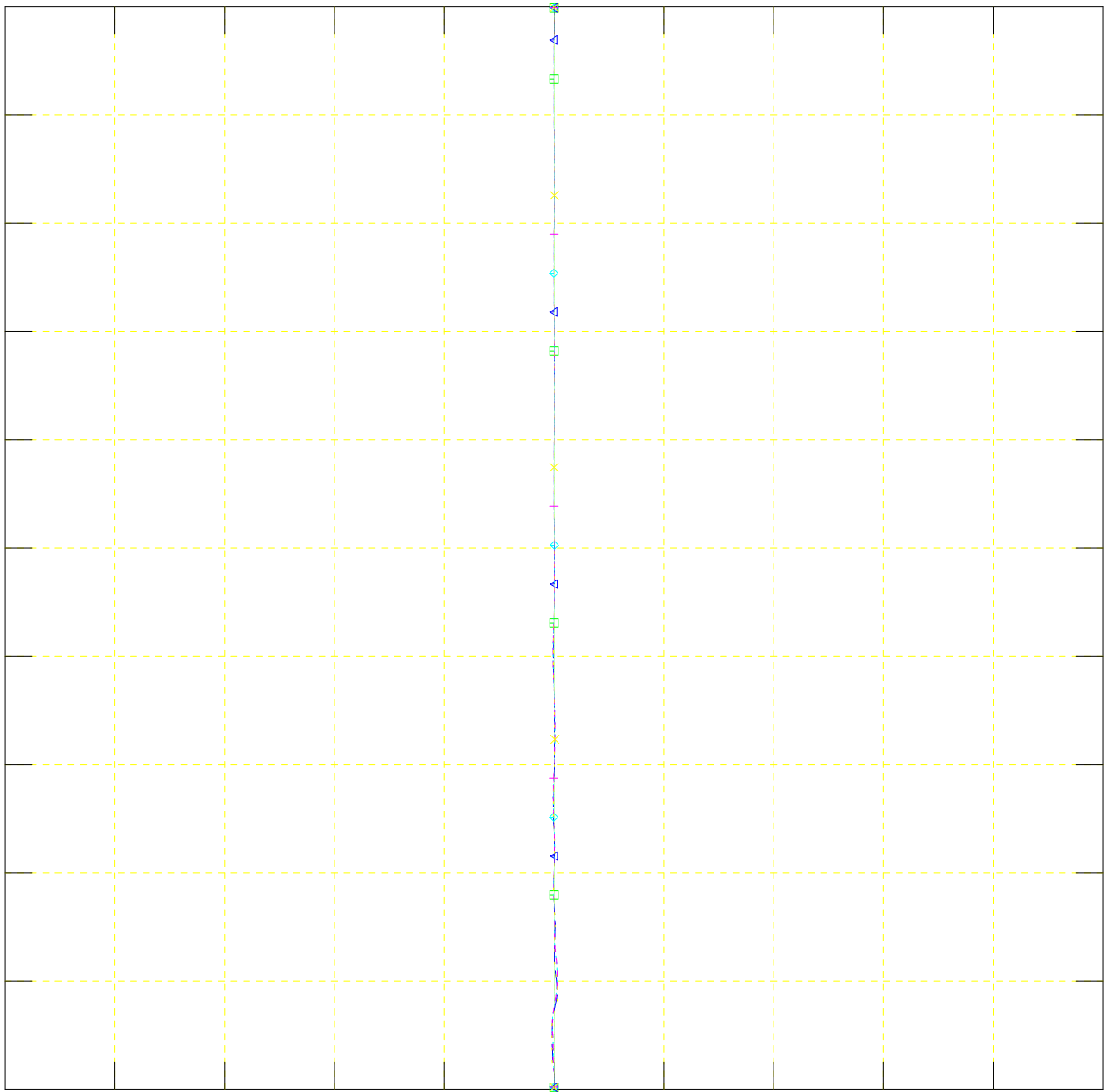


LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

FRI, JUN 13 2008 14:38  
MACHINE FREQUENCIES - 05

Channel	FREQ	Value
CHNL# 63: [FREQ 99183 [G3PID211 18.000]]	18.000	0.50000
CHNL# 62: [FREQ 99182 [G2PID211 18.000]]	18.000	0.50000
CHNL# 61: [FREQ 99181 [G1PID211 18.000]]	18.000	0.50000
CHNL# 60: [FREQ 334090 [4ALDEN 138.00]]	138.00	0.50000
CHNL# 59: [FREQ 334086 [6CONROE 230.00]]	230.00	0.50000



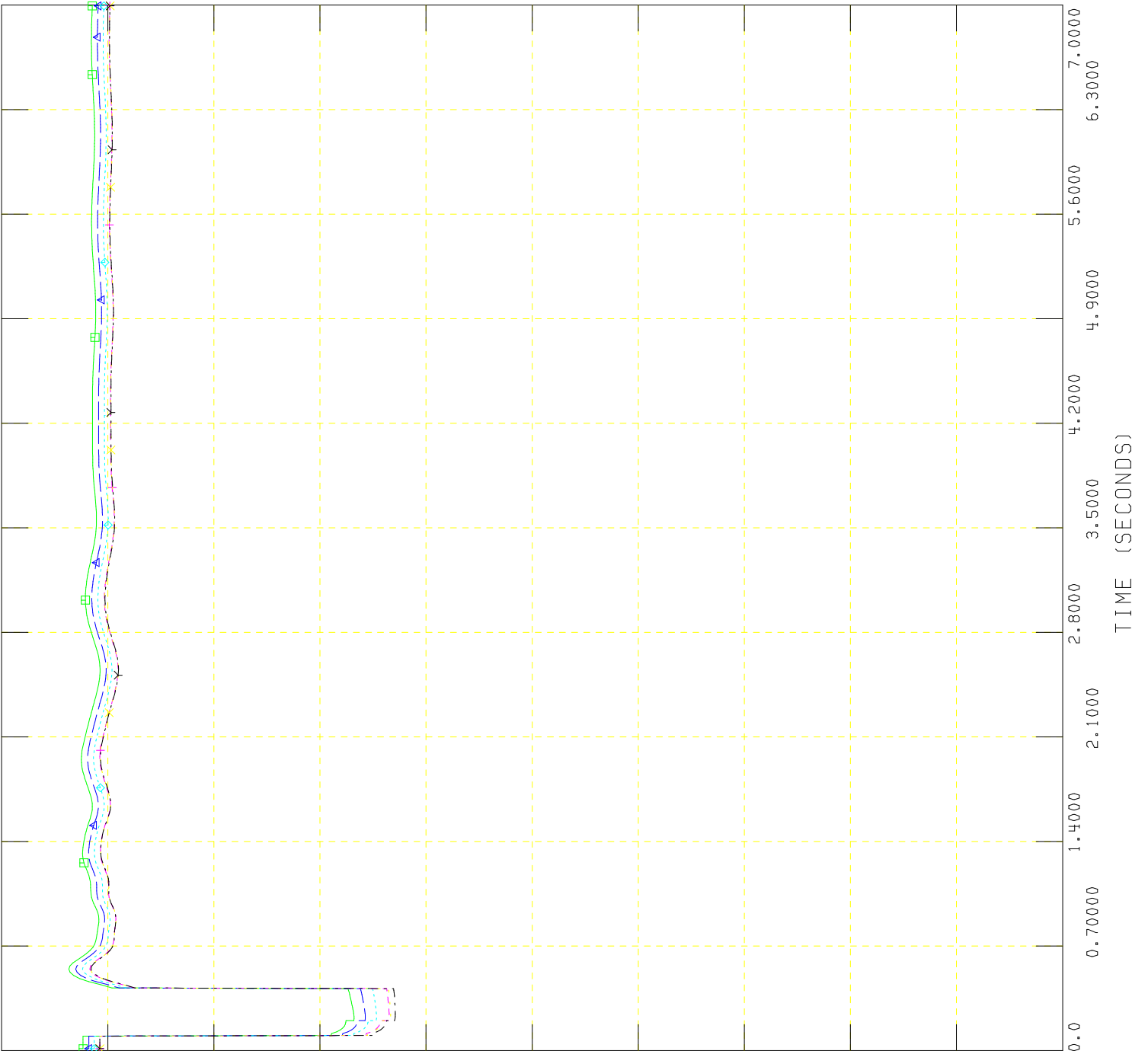
TIME (SECONDS)



LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

1.1000	CHNL# 69: [VOLT 334055 [4RIVTRIN 138.00]]	-0.1000
1.1000	CHNL# 68: [VOLT 334054 [4WALKER 138.00]]	-0.1000
1.1000	CHNL# 67: [VOLT 334053 [4CINCINT 138.00]]	-0.1000
1.1000	CHNL# 66: [VOLT 334052 [4CEDAR 138.00]]	-0.1000
1.1000	CHNL# 65: [VOLT 334051 [4BISHOP 138.00]]	-0.1000
1.1000	CHNL# 64: [VOLT 334050 [4PEE DEE 138.00]]	-0.1000



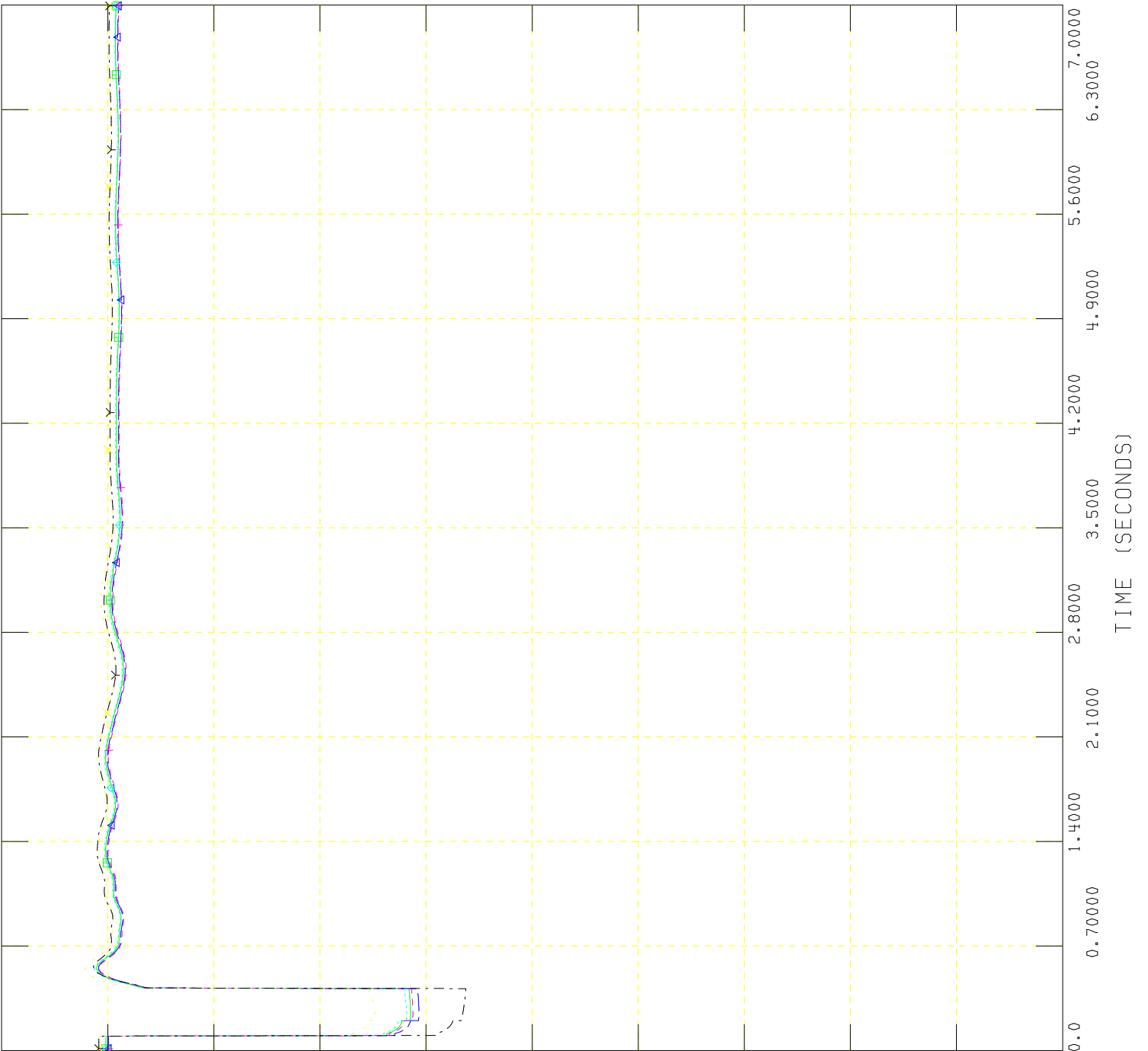
FRI, JUN 13 2008 14:38  
BUS VOLTAGES - 01



LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

1.1000	CHNL# 75: [VOLT 334061 [4GOREE 138.00]]	-0.1000
1.1000	CHNL# 74: [VOLT 334060 [4MT.ZION 138.00]]	-0.1000
1.1000	CHNL# 73: [VOLT 334059 [4WYNTEX 138.00]]	-0.1000
1.1000	CHNL# 72: [VOLT 334058 [L558T485 138.00]]	-0.1000
1.1000	CHNL# 71: [VOLT 334057 [4HUNTSVL 138.00]]	-0.1000
1.1000	CHNL# 70: [VOLT 334056 [L558TP91 138.00]]	-0.1000



FRI, JUN 13 2008 14:38  
BUS VOLTAGES - 02

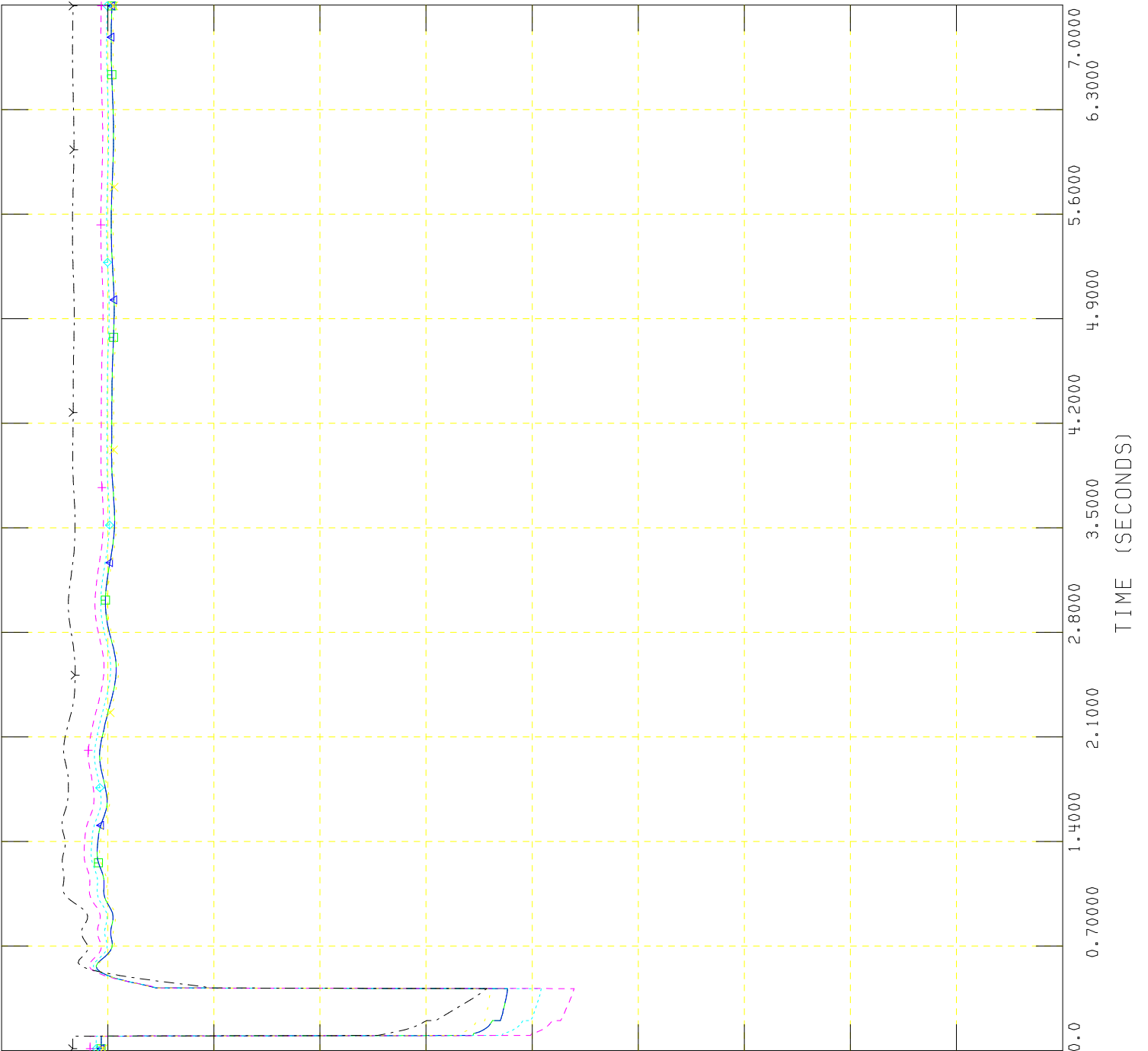




LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

1.1000	CHNL# 81: [VOLT 334070 [G1LEWIS 22.000]]	-0.1000
1.1000	CHNL# 80: [VOLT 334066 [4GEORGIA 138.00]]	-0.1000
1.1000	CHNL# 79: [VOLT 334065 [4LACON 138.00]]	-0.1000
1.1000	CHNL# 78: [VOLT 334064 [8LNG 413 138.00]]	-0.1000
1.1000	CHNL# 77: [VOLT 334063 [4EVGRN* 138.00]]	-0.1000
1.1000	CHNL# 76: [VOLT 334062 [4TEMCO 138.00]]	-0.1000



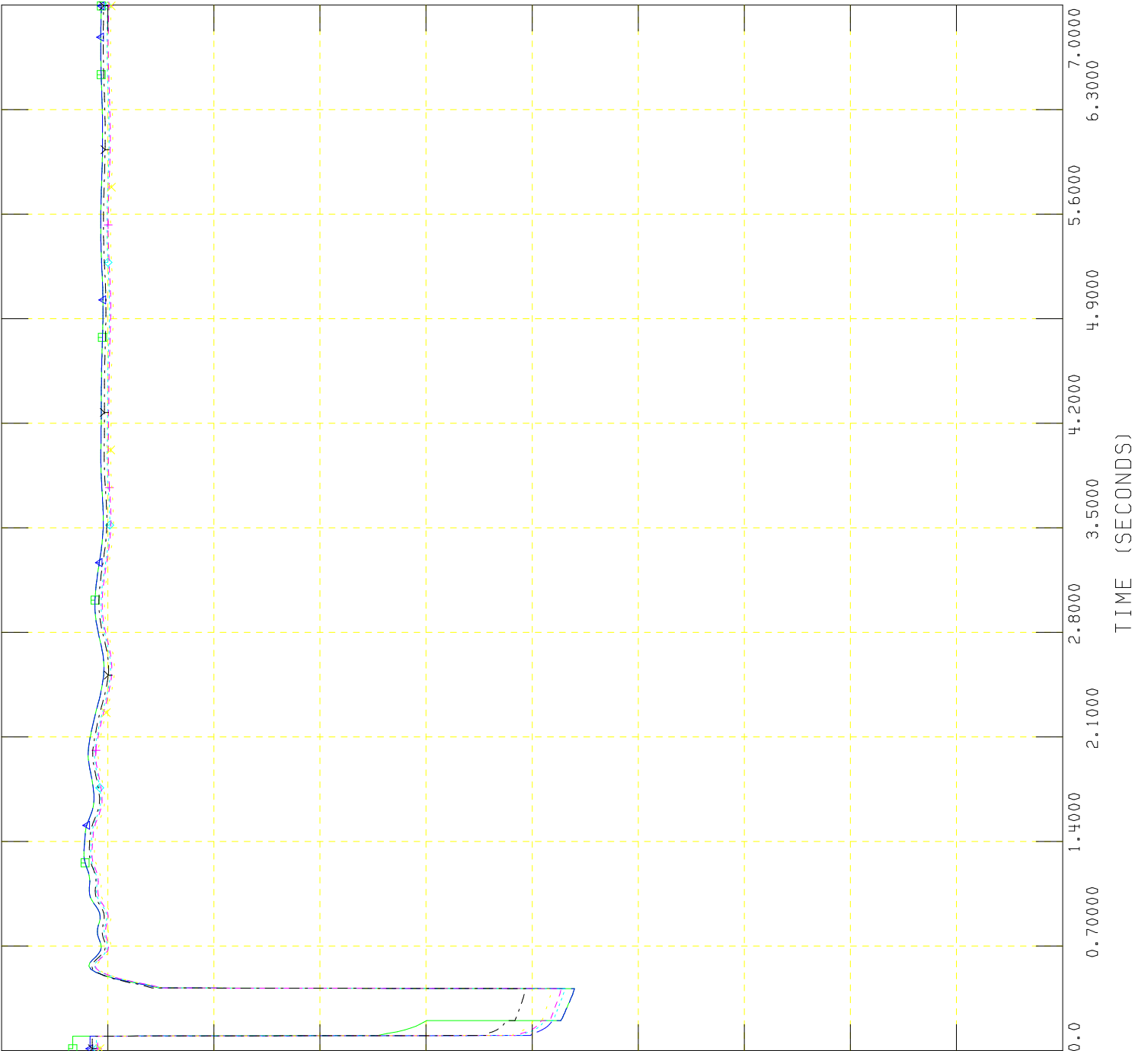
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BUS VOLTAGES - 03



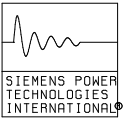
LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

1.1000	CHNL# 87: [VOLT 334076 [4CANEYCK 138.00]]	-0.1000
1.1000	CHNL# 86: [VOLT 334075 [4LONGMIR 138.00]]	-0.1000
1.1000	CHNL# 85: [VOLT 334074 [4PANORAM 138.00]]	-0.1000
1.1000	CHNL# 84: [VOLT 334073 [4EGYPT 138.00]]	-0.1000
1.1000	CHNL# 83: [VOLT 334072 [4LEWIS 138.00]]	-0.1000
1.1000	CHNL# 82: [VOLT 334071 [G2LEWIS 22.00]]	-0.1000



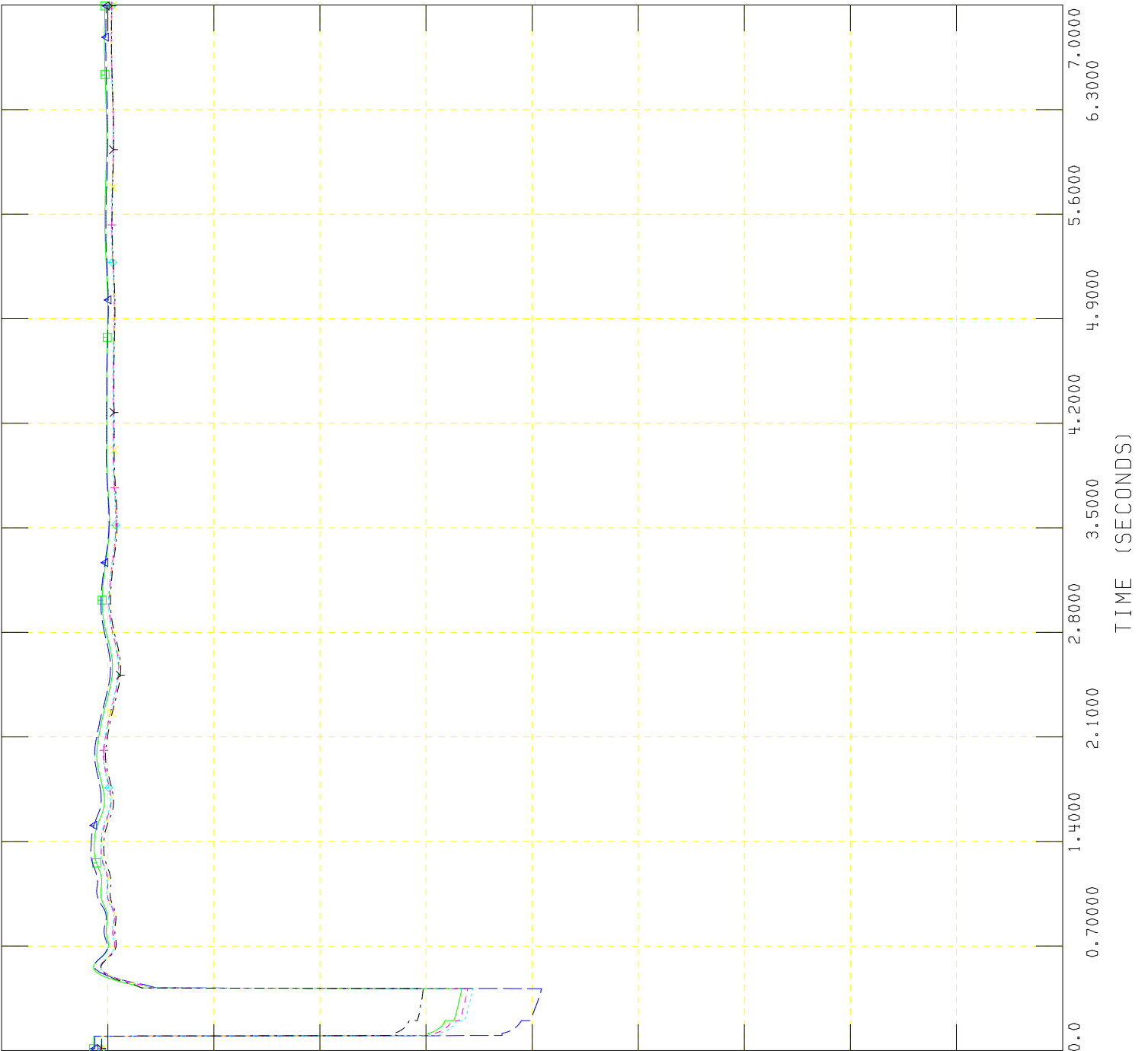
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BUS VOLTAGES - 04



LC  
 LC-GENUNIT2 STUCK BRKR COND  
 DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

1.1000	CHNL# 93: [VOLT 334082 [4SECURTY 138.00]]	-0.1000
1.1000	CHNL# 92: [VOLT 334081 [4CRYSTAL 138.00]]	-0.1000
1.1000	CHNL# 91: [VOLT 334080 [5L555T50 138.00]]	-0.1000
1.1000	CHNL# 90: [VOLT 334079 [4FWPIPE 138.00]]	-0.1000
1.1000	CHNL# 89: [VOLT 334078 [4SHEAWIL 138.00]]	-0.1000
1.1000	CHNL# 88: [VOLT 334077 [4PECHCK# 138.00]]	-0.1000



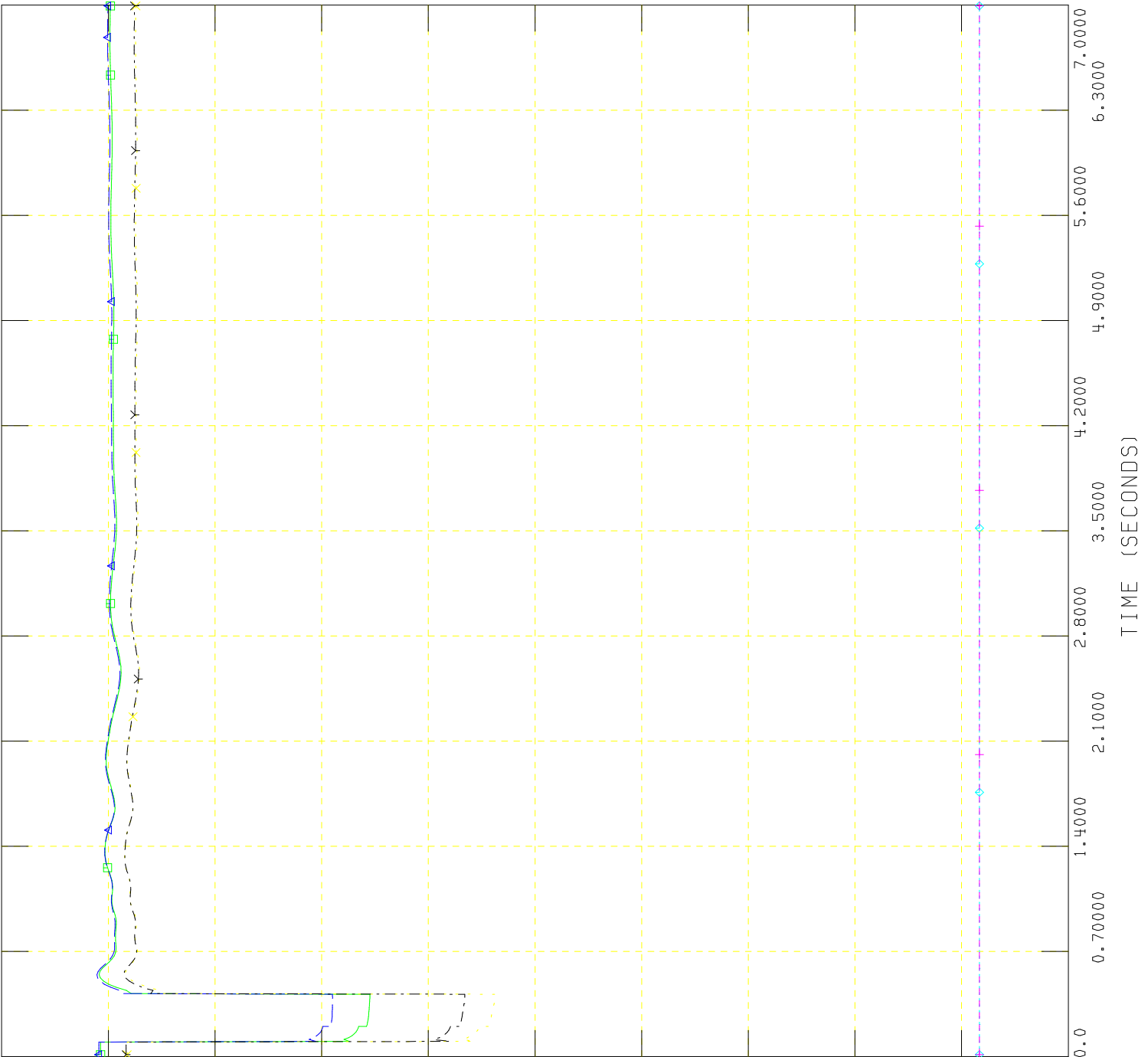
FRI, JUN 13 2008 14:38  
 BUS VOLTAGES - 05



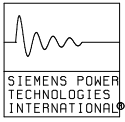
LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

1.1000	CHNL# 99: [VOLT 334091 [4GOSLIN 138.00]]	-0.1000
1.1000	CHNL# 98: [VOLT 334090 [4ALDEN 138.00]]	-0.1000
1.1000	CHNL# 97: [VOLT 334086 [6CONROE 230.00]]	-0.1000
1.1000	CHNL# 96: [VOLT 334085 [6LEWISCREEK 230.00]]	-0.1000
1.1000	CHNL# 95: [VOLT 334084 [4CLVELND 138.00]]	-0.1000
1.1000	CHNL# 94: [VOLT 334083 [4JAYHAWK 138.00]]	-0.1000



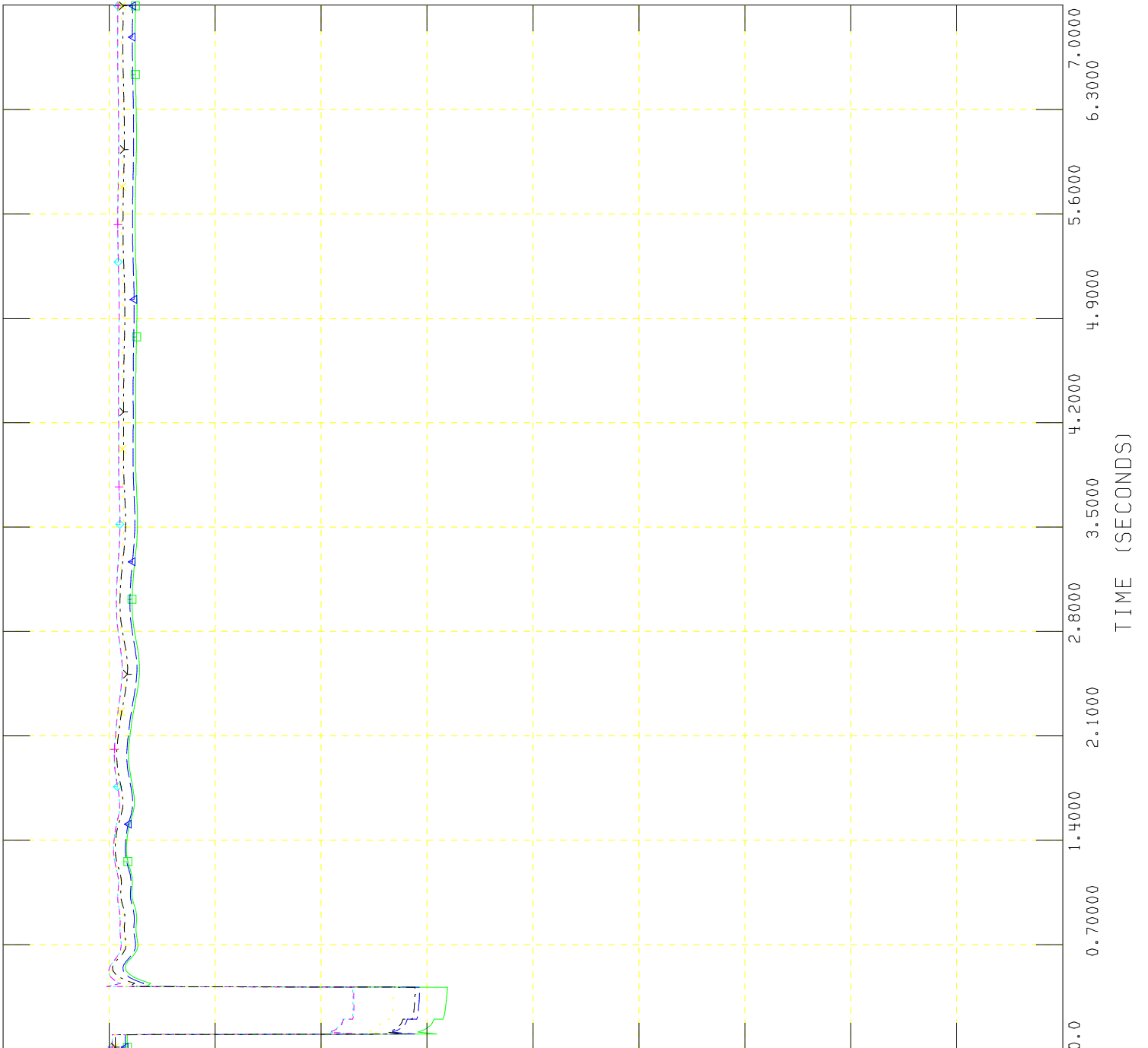
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BUS VOLTAGES - 06



LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

1.1000	CHNL# 105: [VOLT 334103 [4PLANTAT 138.00]]	-0.1000
1.1000	CHNL# 104: [VOLT 334102 [4CEDHILL 138.00]]	-0.1000
1.1000	CHNL# 103: [VOLT 334101 [4TAMINA 138.00]]	-0.1000
1.1000	CHNL# 102: [VOLT 334100 [4PORTER 138.00]]	-0.1000
1.1000	CHNL# 101: [VOLT 334093 [40AKRIDG 138.00]]	-0.1000
1.1000	CHNL# 100: [VOLT 334092 [4METRO2 138.00]]	-0.1000



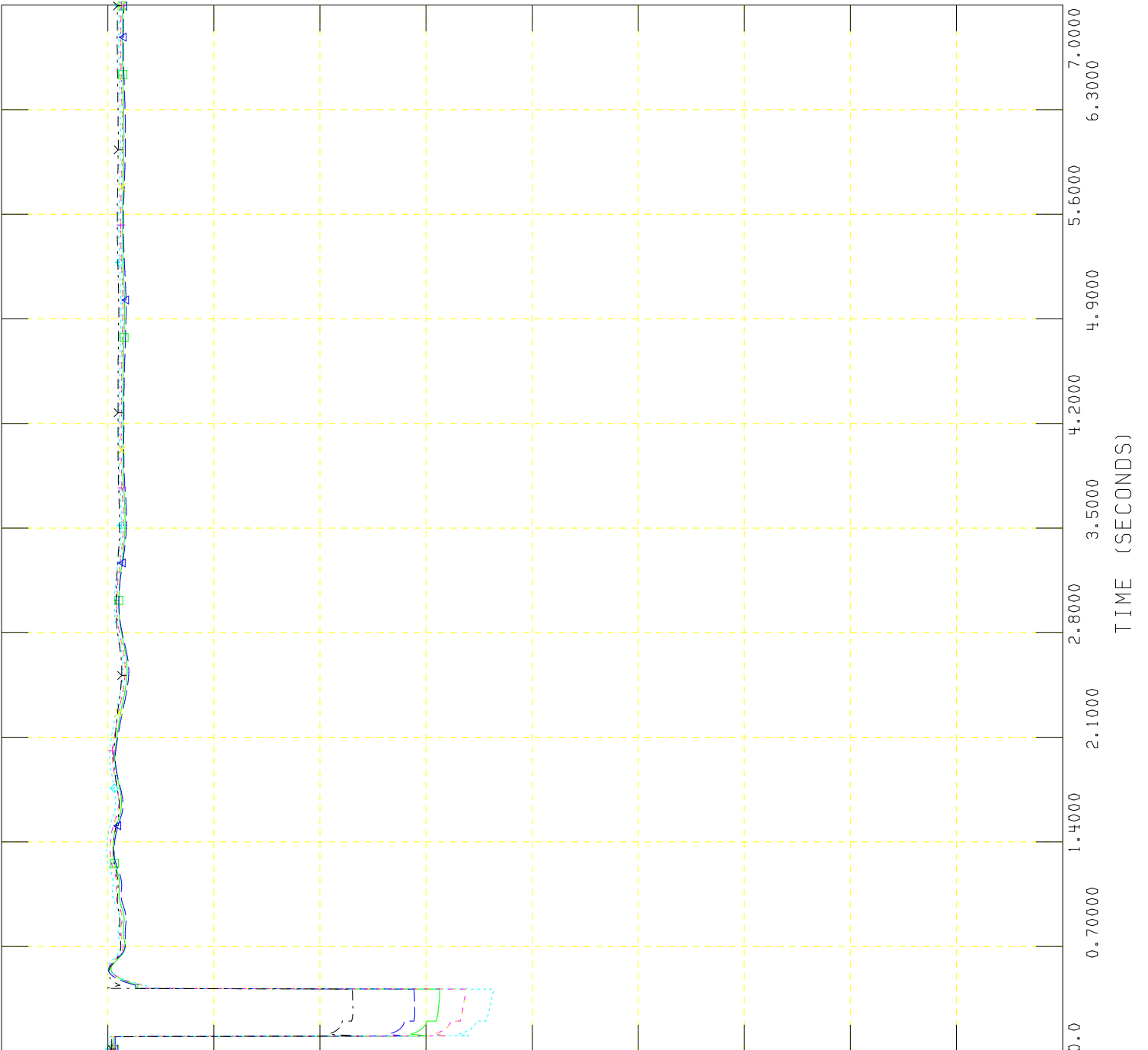
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BUS VOLTAGES - 07



LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

1.1000	CHNL# 111: [VOLT 334109 [4DRYCRK 138.00]]	-0.1000
1.1000	CHNL# 110: [VOLT 334108 [4JEFCO 138.00]]	-0.1000
1.1000	CHNL# 109: [VOLT 334107 [5L523T58 138.00]]	-0.1000
1.1000	CHNL# 108: [VOLT 334106 [4CONAIR 138.00]]	-0.1000
1.1000	CHNL# 107: [VOLT 334105 [4WDHAVN 138.00]]	-0.1000
1.1000	CHNL# 106: [VOLT 334104 [4CONROE 138.00]]	-0.1000



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BUS VOLTAGES - 08



LC  
LC-GENUNIT2 STUCK BRKR COND  
DELAYED CLEARING - 13 CYCLES

FILE: C:\Southwest Power Pool\LC-GenUnit2-2a.out

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BUS VOLTAGES - 09

