

# Table of Contents

<b>APPENDIX C</b>	<b>PID-287 Stability Plots .....</b>	<b>2</b>
<b>APPENDIX C.1</b>	<b>Summer Peak Stability plots.....</b>	<b>3</b>
C.1.1	FAULT-1 .....	5
C.1.2	FAULT-2 .....	6
C.1.3	FAULT-3 .....	7
C.1.4	FAULT-4 .....	8
C.1.5	FAULT-5 .....	9
C.1.6	FAULT-6 .....	10
C.1.7	FAULT-7 .....	11
C.1.8	FAULT-8 .....	12
C.1.9	FAULT-9 .....	13
C.1.10	FAULT-10 .....	14
C.1.11	FAULT-11 .....	15
C.1.12	FAULT-12 .....	16
C.1.13	FAULT-13 .....	17
C.1.14	FAULT-14 .....	18
C.1.15	FAULT-15 .....	19
C.1.16	FAULT-16 .....	20
C.1.17	FAULT-17 .....	21
C.1.18	FAULT-18 .....	22
C.1.19	FAULT-19 .....	23
C.1.20	FAULT-20 .....	24
C.1.21	FAULT-21 .....	25
C.1.22	FAULT-22 .....	26
C.1.23	FAULT-23 .....	27
C.1.24	FAULT-1A .....	28
C.1.25	FAULT-2A .....	29
C.1.26	FAULT-3A .....	30
C.1.27	FAULT-4A .....	31
C.1.28	FAULT-5A .....	32
C.1.29	FAULT-6A .....	33
C.1.30	FAULT-7A .....	34
C.1.31	FAULT-8A .....	35
C.1.32	FAULT-9A .....	36
C.1.33	FAULT-10A .....	37
C.1.34	FAULT-11A .....	38
C.1.35	FAULT-12A .....	39
C.1.36	FAULT-13A .....	40
C.1.37	FAULT-14A .....	41
C.1.38	FAULT-15A .....	42
C.1.39	FAULT-16A .....	43
C.1.40	FAULT-17A .....	44
C.1.41	FAULT-18A .....	45

## **APPENDIX C PID-287 Stability Plots**

A total of Twenty three (23) three phase normally cleared and Eighteen (18) single phase stuck-breaker faults were simulated

The results of the stability analysis and stability plots are provided in the following sections.

## APPENDIX C.1 Summer Peak Stability plots

Fault #	Stable?	Acceptable Voltages?
Fault-1	YES	YES
Fault-2	YES	YES
Fault-3	YES	YES
Fault-4	YES	YES
Fault-5	YES	YES
Fault-6	YES	YES
Fault-7	YES	YES
Fault-8	YES	YES
Fault-9	YES	YES
Fault-10	YES	YES
Fault-11	YES	YES
Fault-12	YES	YES
Fault-13	YES	YES
Fault-14	YES	YES
Fault-15	YES	YES
Fault-16	YES	YES
Fault-17	YES	YES
Fault-18	YES	YES
Fault-19	YES	YES
Fault-20	YES	YES
Fault-21	YES	YES
Fault-22	YES	YES
Fault-23	YES	YES
Fault-1A	YES	YES
Fault-2A	YES	YES
Fault-3A	YES	YES
Fault-4A	YES	YES
Fault-5A	YES	YES
Fault-6A	YES	YES
Fault-7A	YES	YES
Fault-8A	YES	YES
Fault-9A	YES	YES

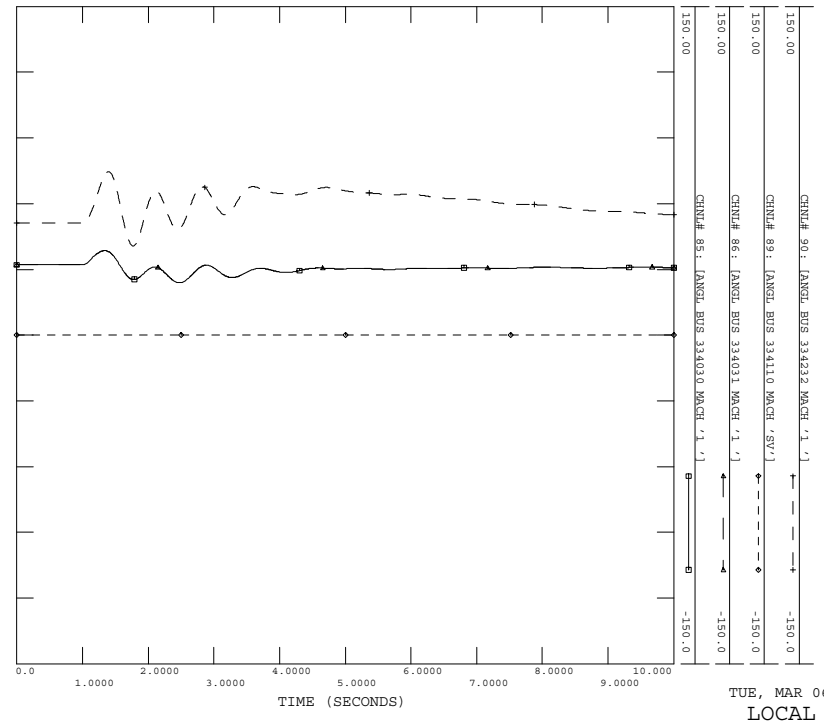
<b>Fault #</b>	<b>Stable?</b>	<b>Acceptable Voltages?</b>
Fault-10A	YES	YES
Fault-11A	YES	YES
Fault-12A	YES	YES
Fault-13A	YES	YES
Fault-14A	YES	YES
Fault-15A	YES	YES
Fault-16A	YES	YES
Fault-17A	YES	YES
Fault-18A	YES	YES

### **C.1.1 FAULT-1**

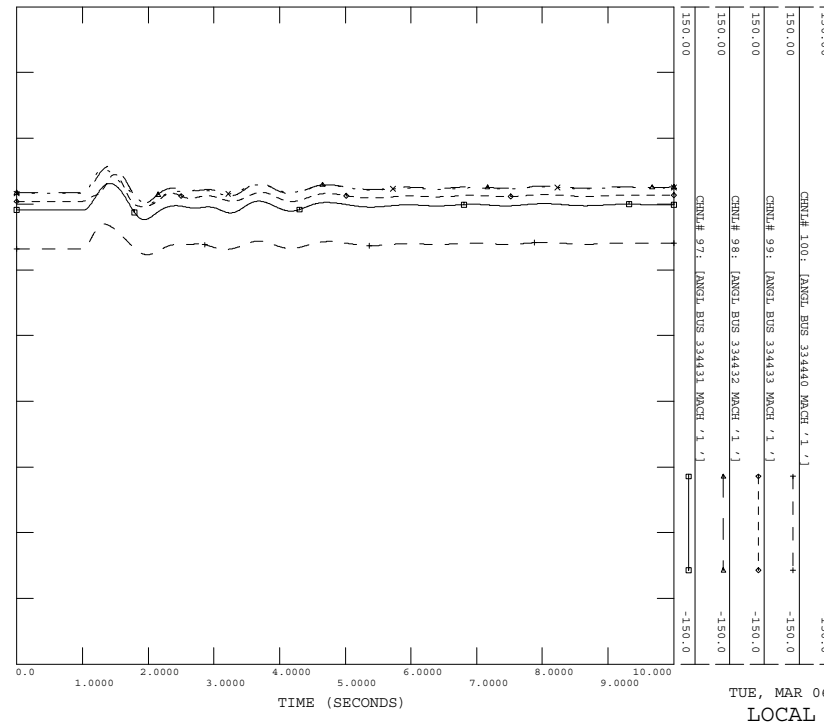
3 phase fault on the Lewis Creek-Longmire 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek-Longmire 138 kV

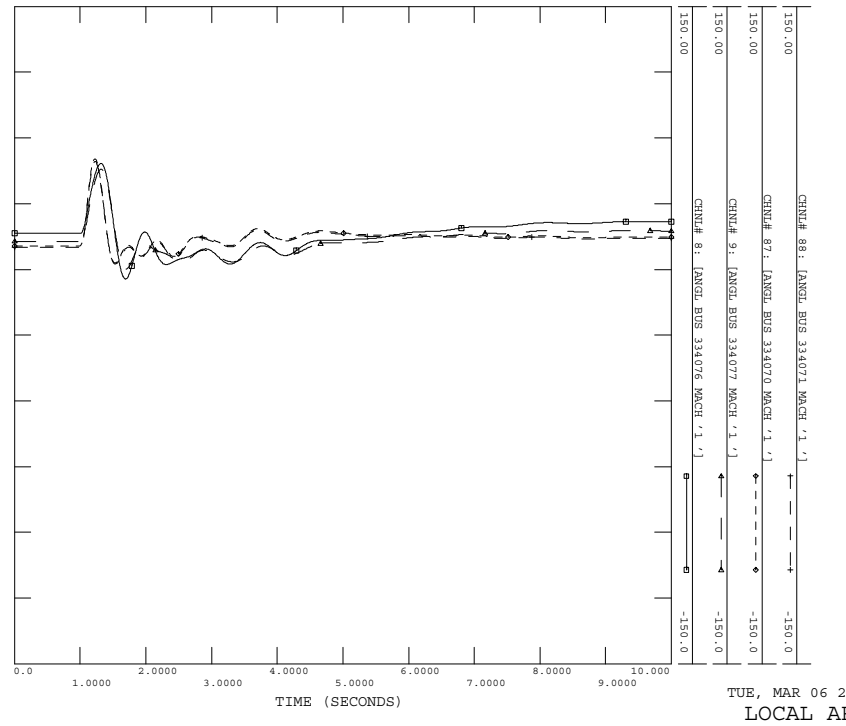
6CY 3PH FAULT LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1.OUT



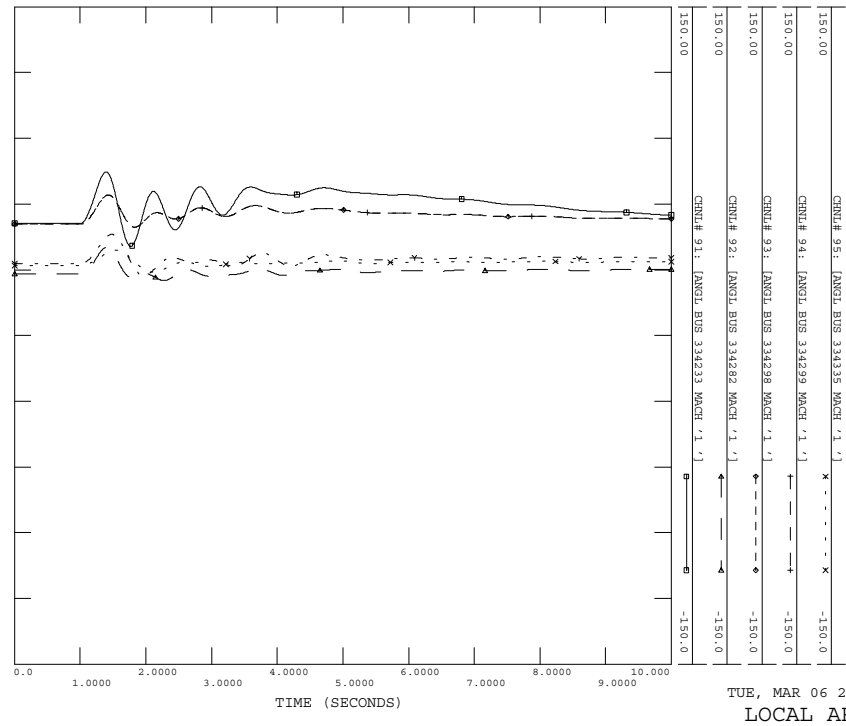
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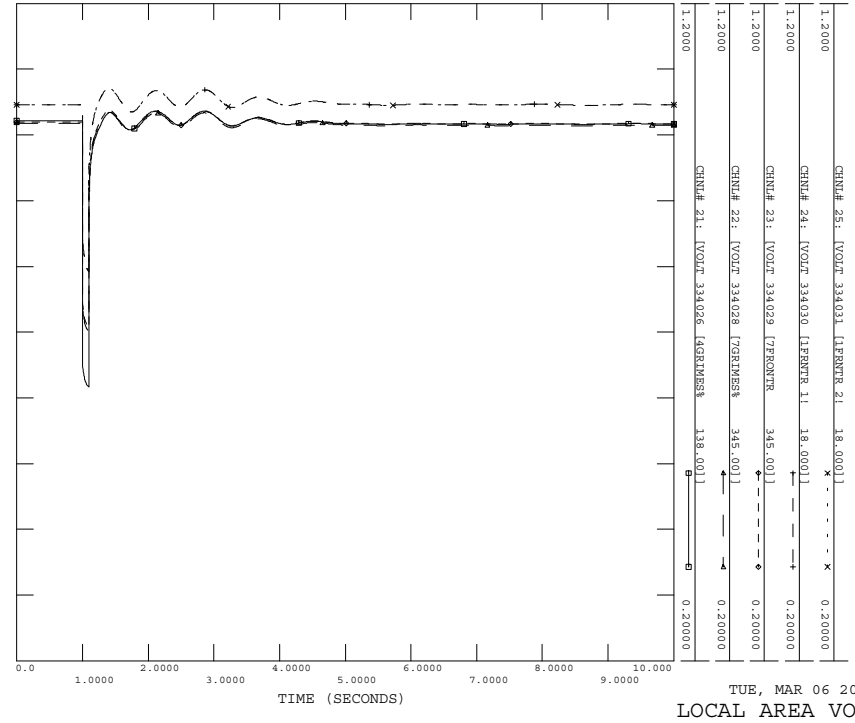
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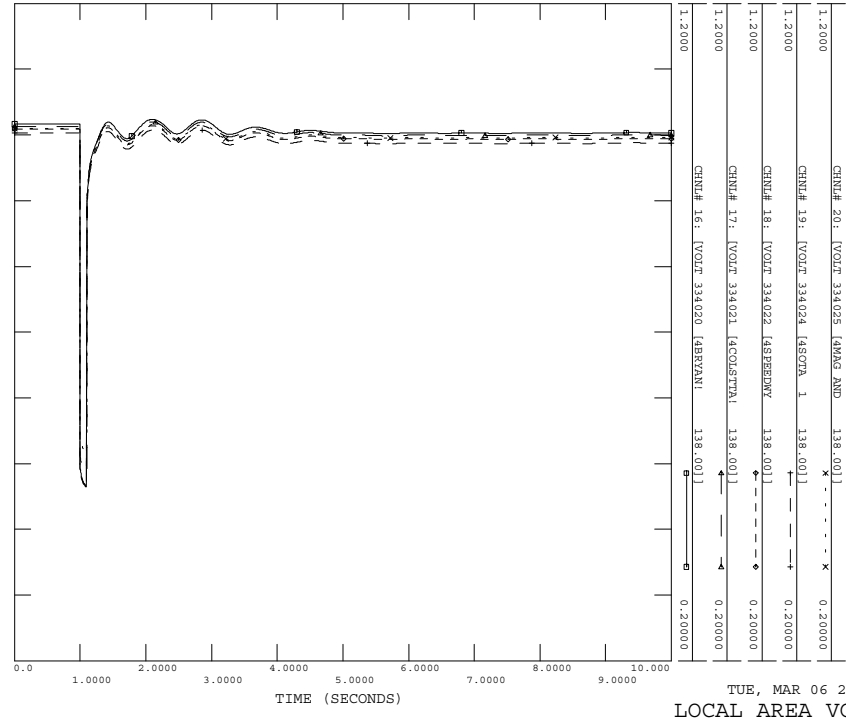
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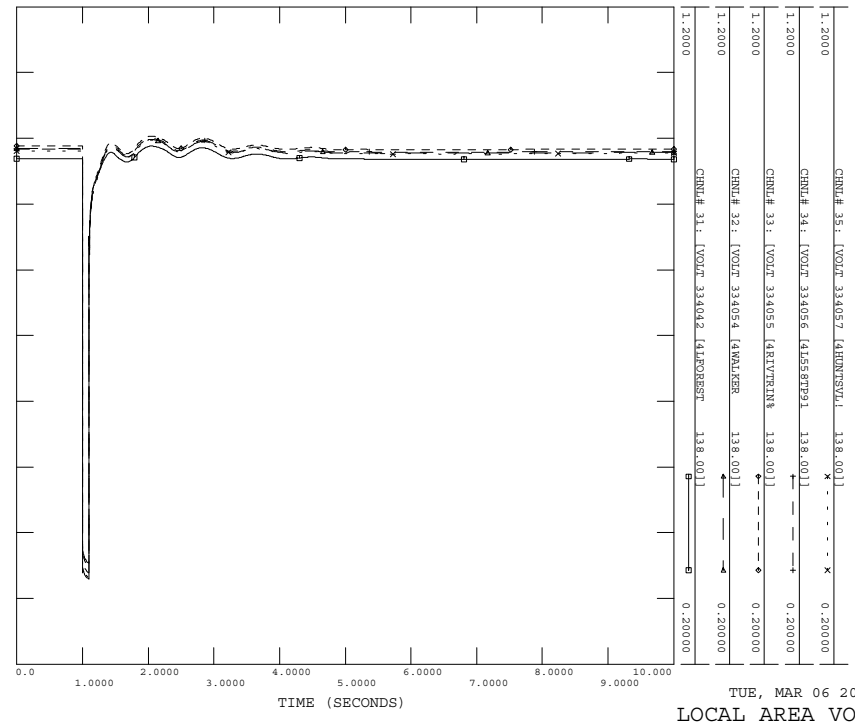
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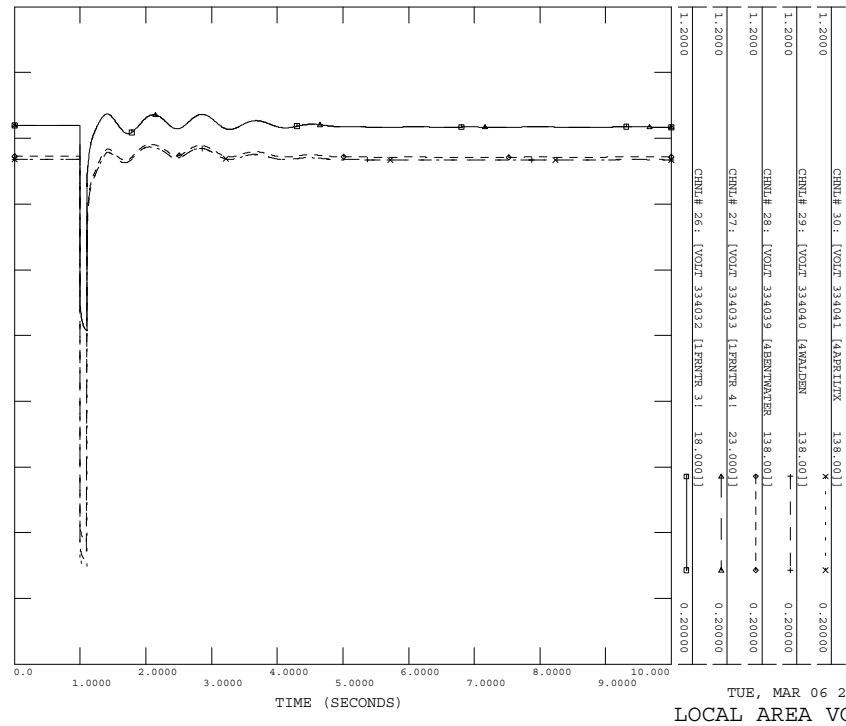
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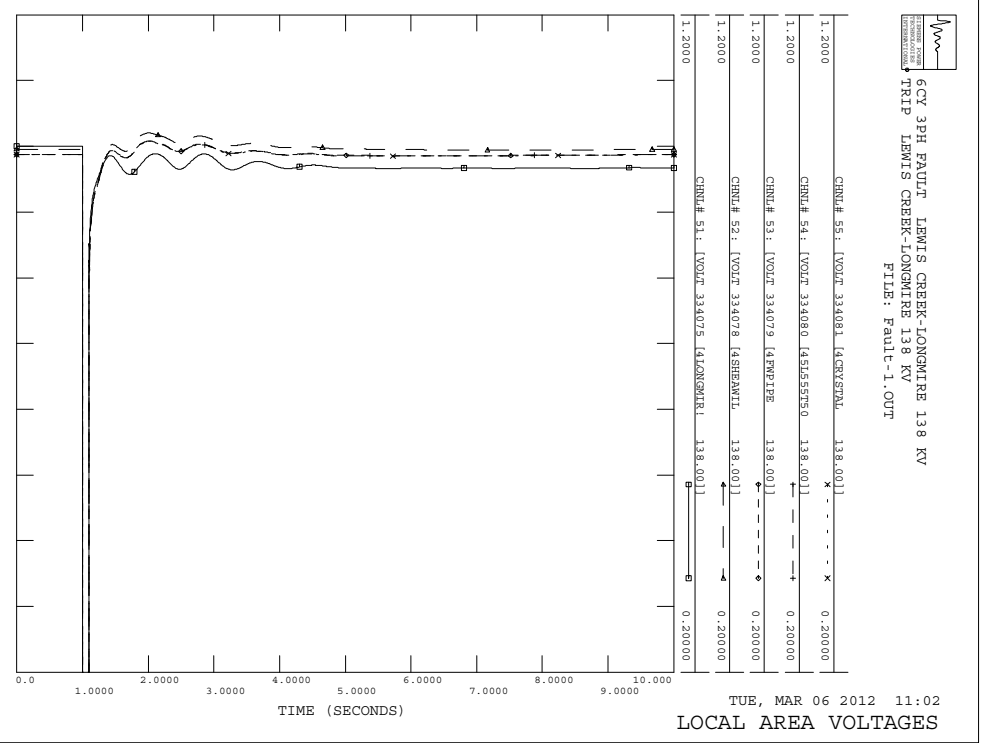
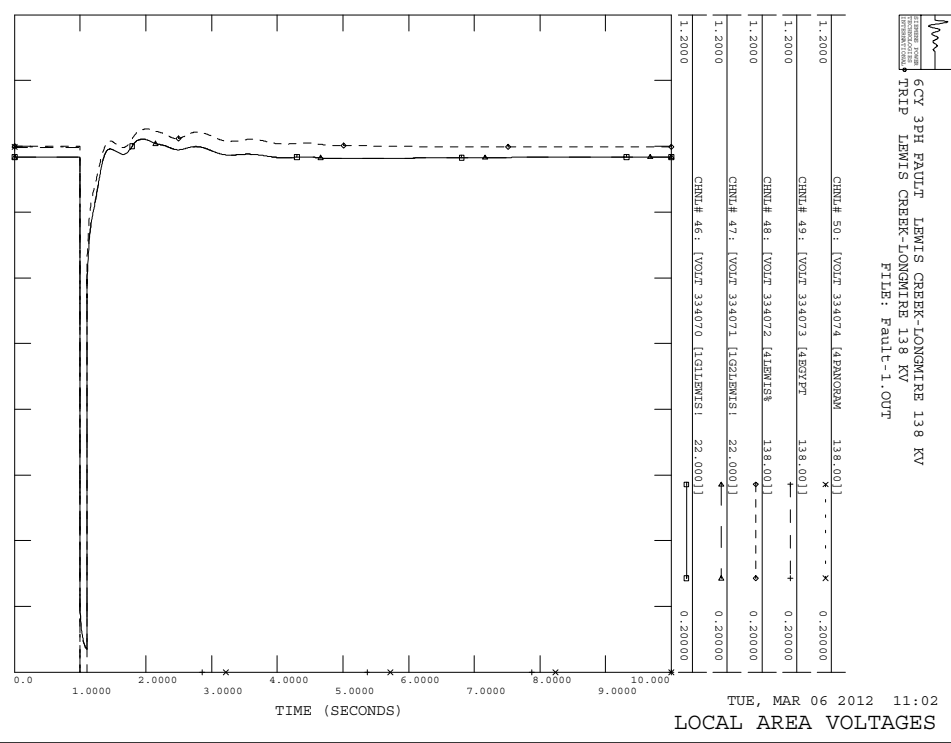
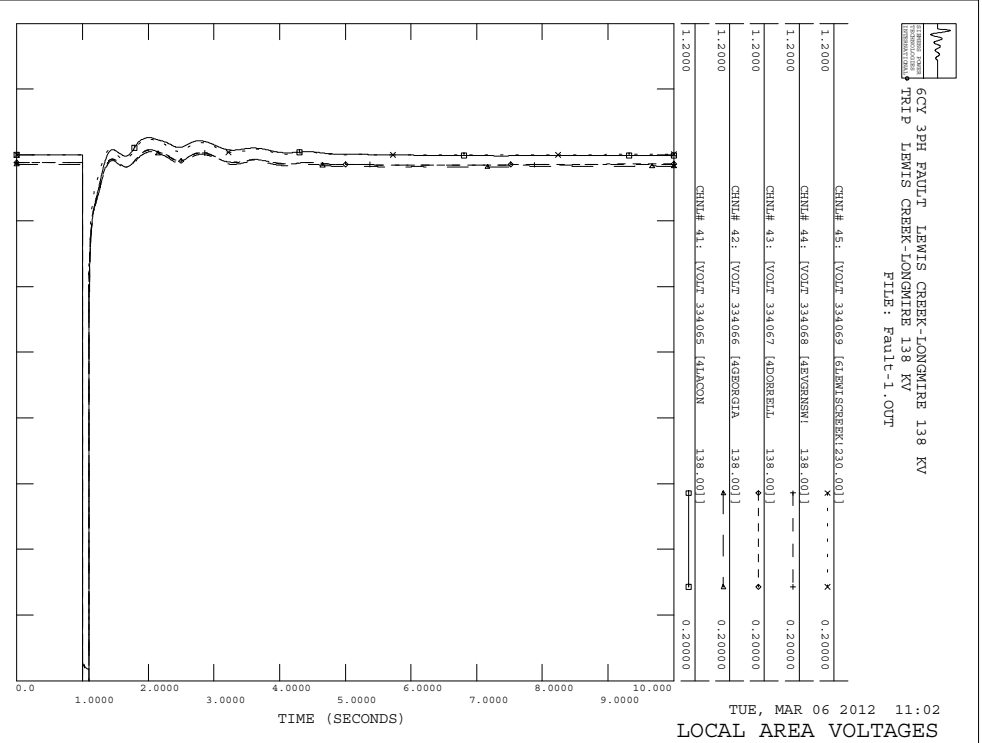
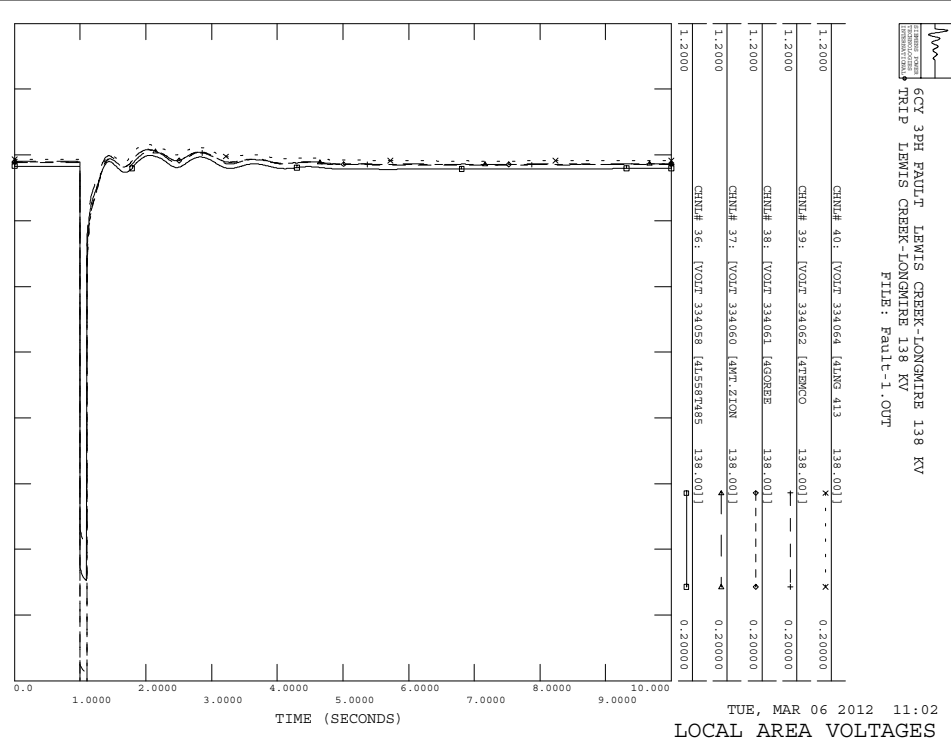


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 TRIP LEWIS CREEK-LONGMIRE 138 KV  
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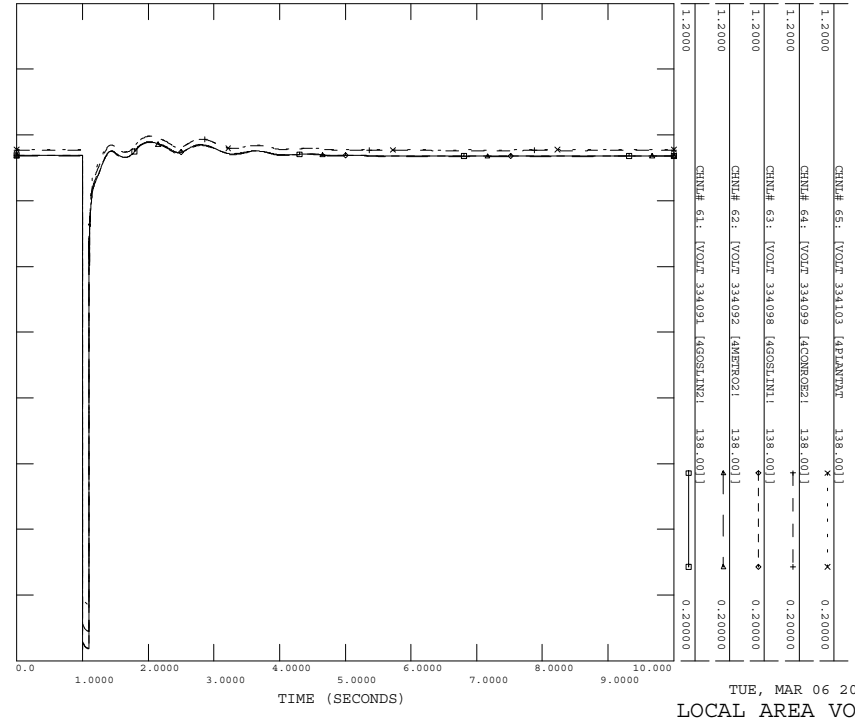
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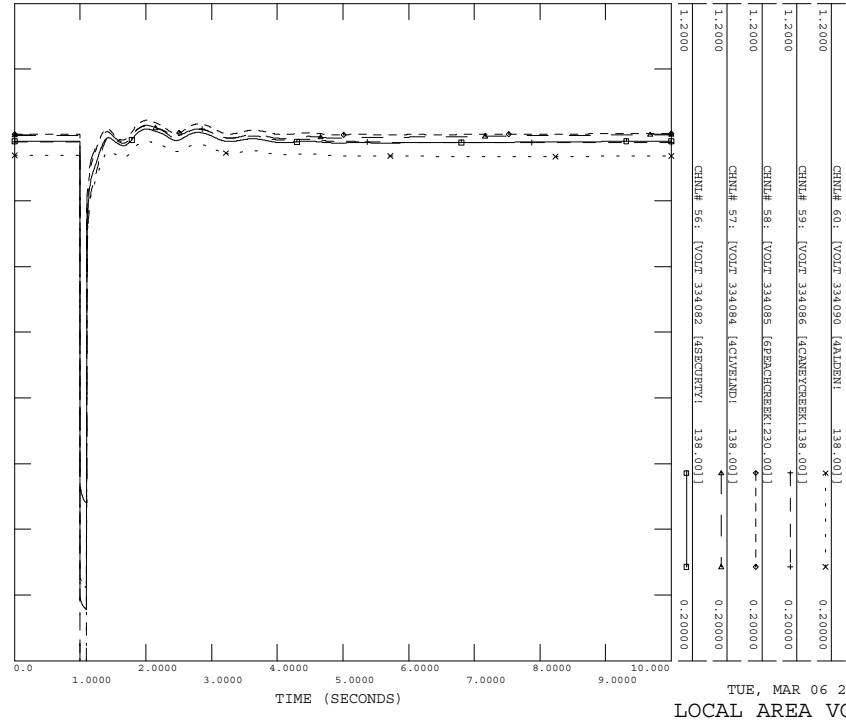




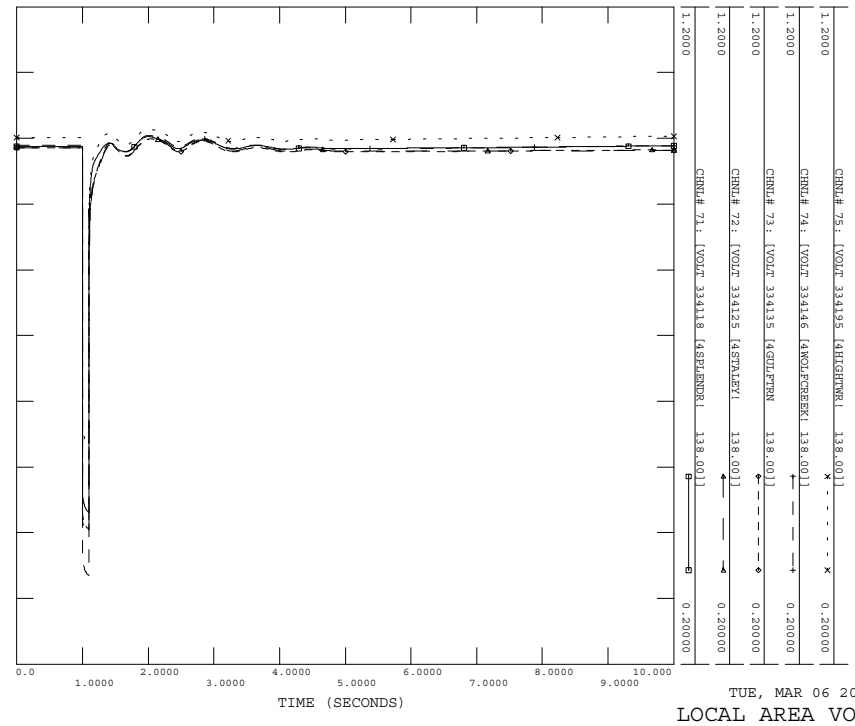
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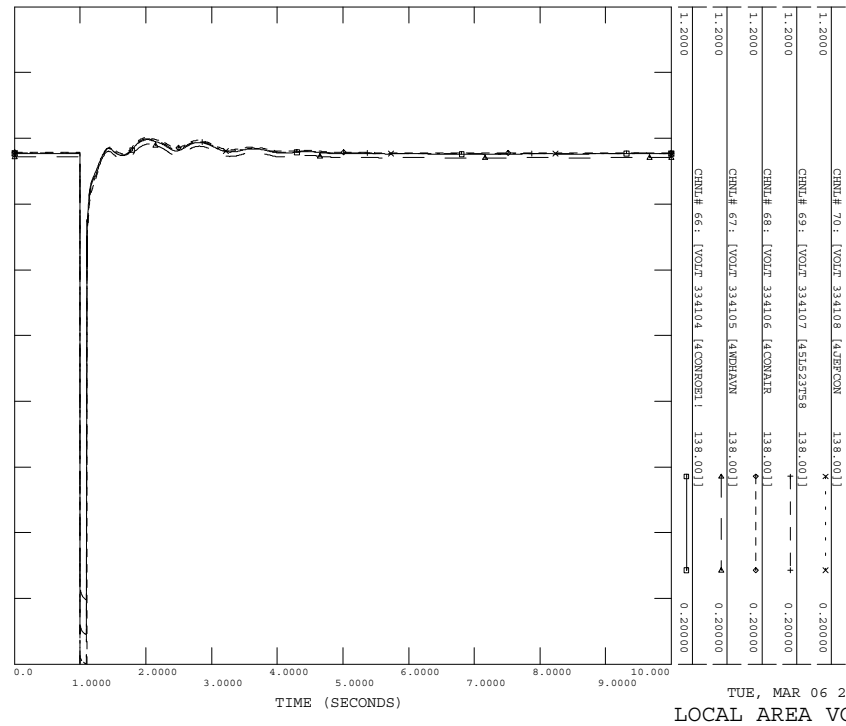
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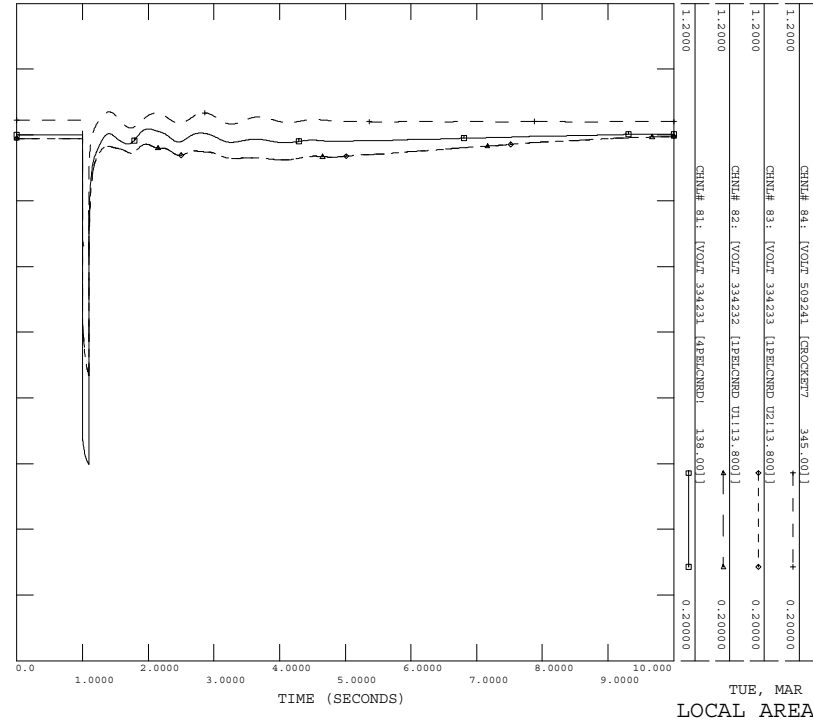
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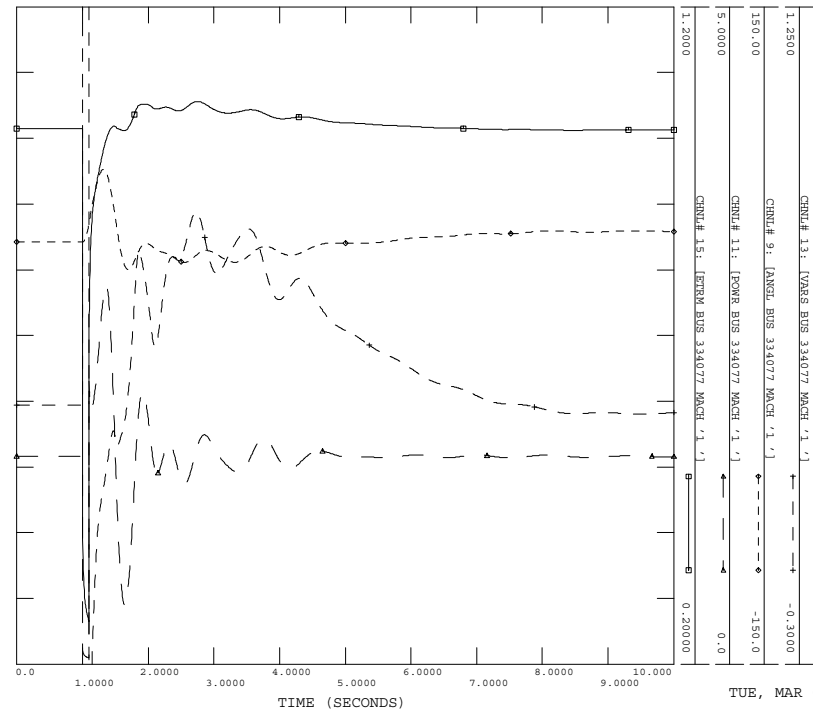
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 TRIP LEWIS CREEK-LONGMIRE 138 KV  
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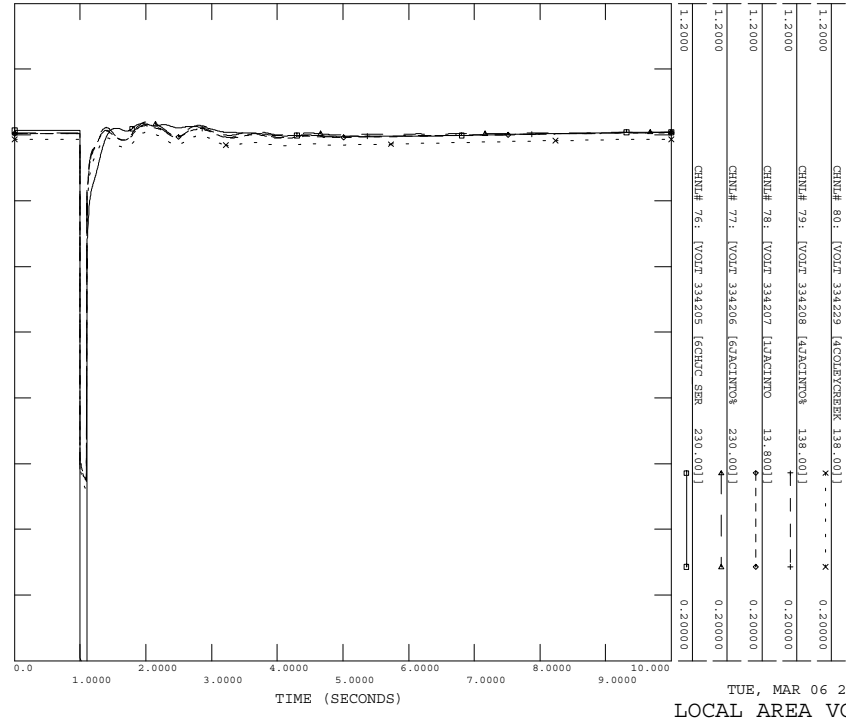
6CY 3PH FAULT LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
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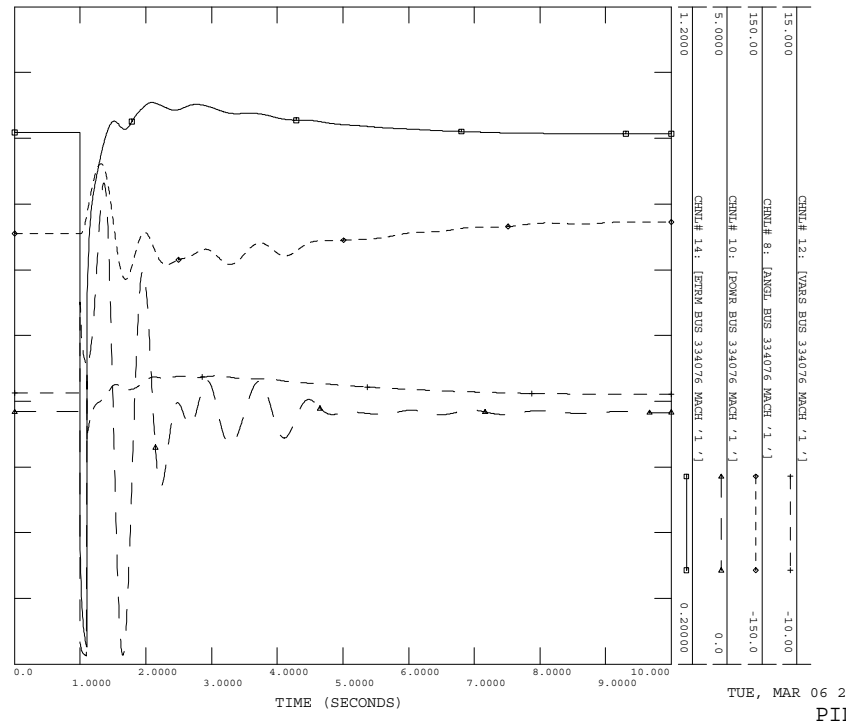
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 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1.OUT



6CY 3PH FAULT LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1.OUT



6CY 3PH FAULT LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1.OUT

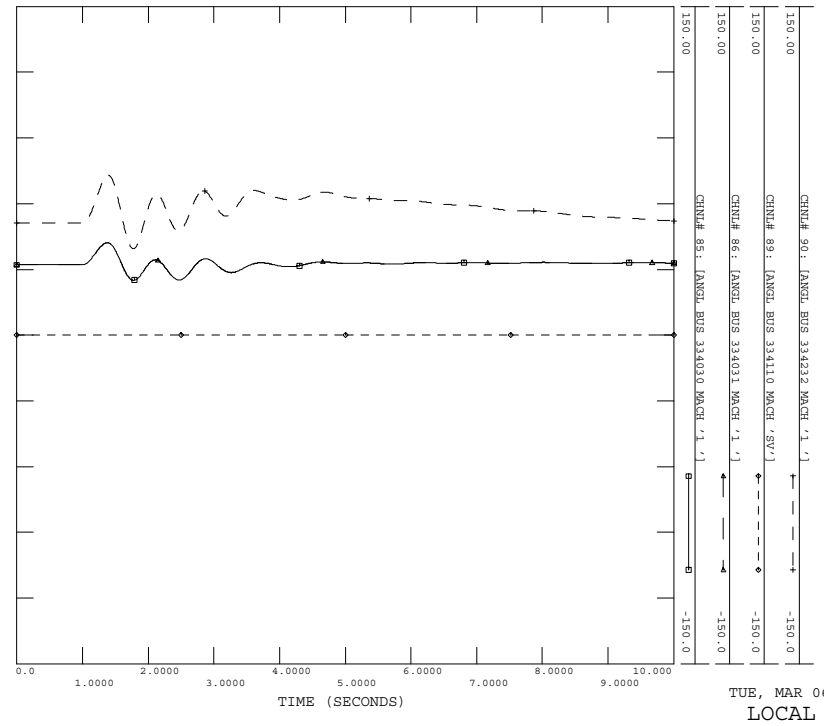


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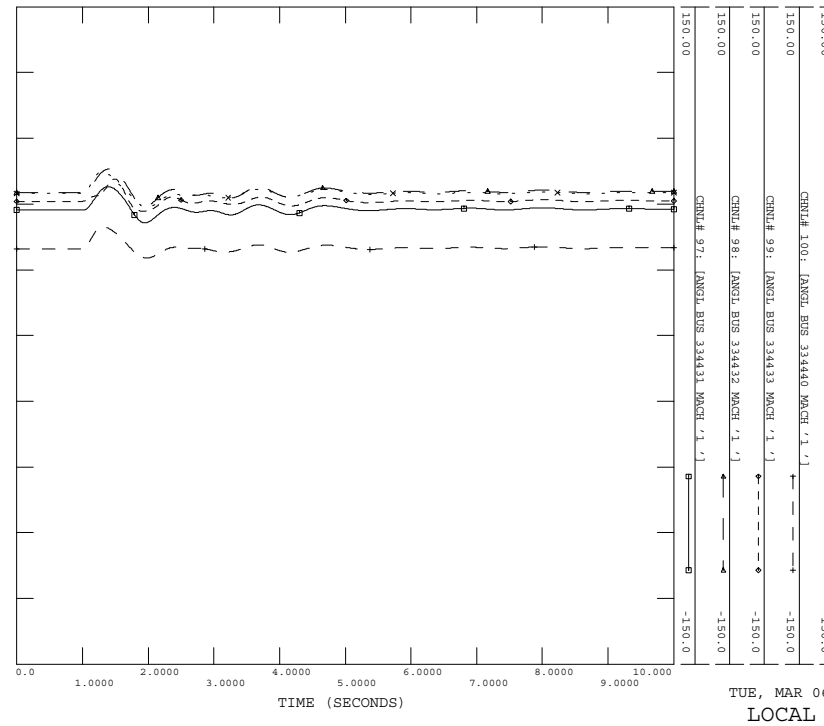
3 phase fault on the Lewis Creek-Alden 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek-Alden 138 kV

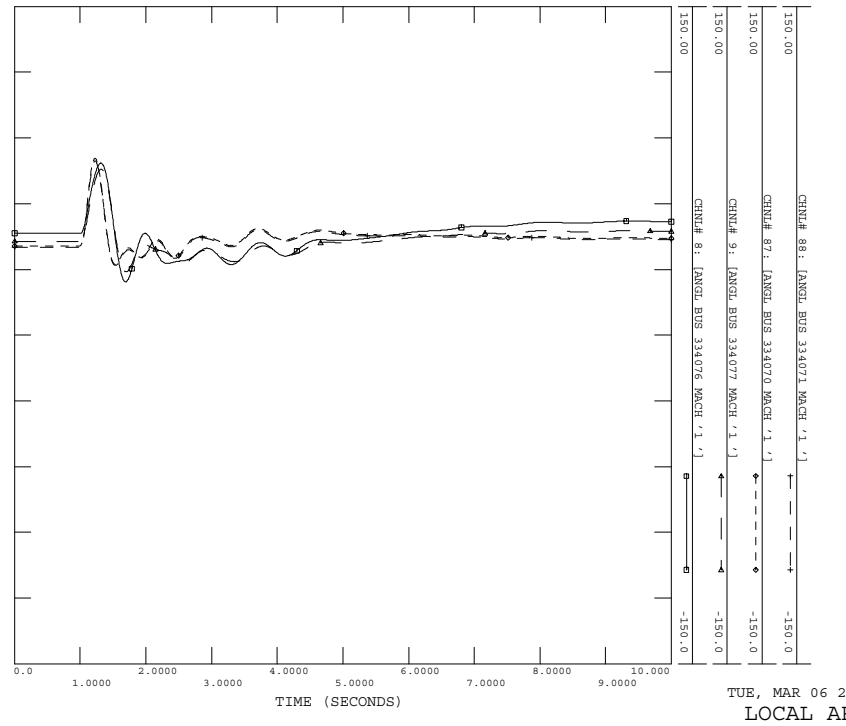
6CY 3PH FAULT LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2.OUT



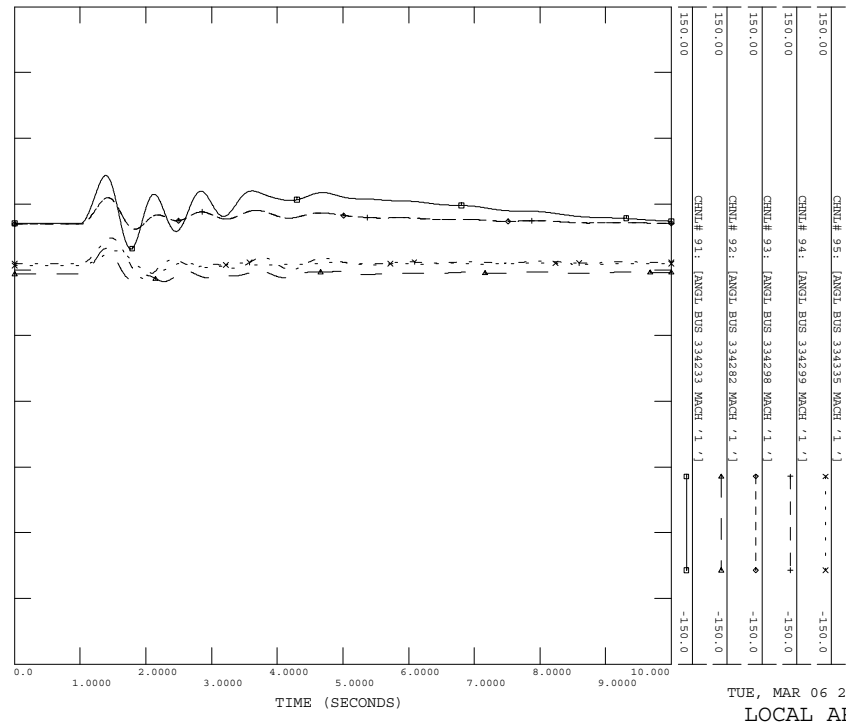
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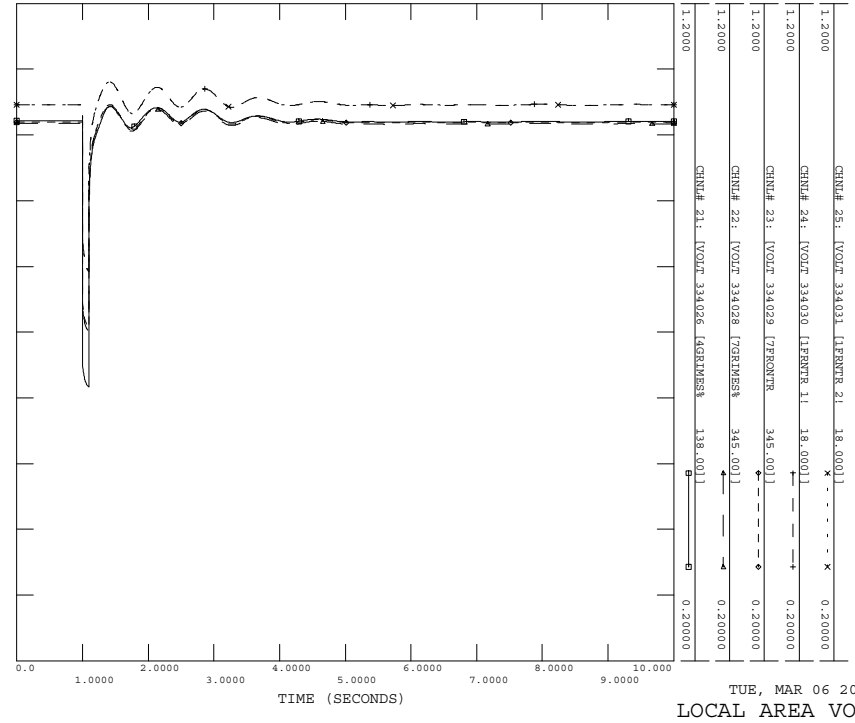
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 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2.OUT



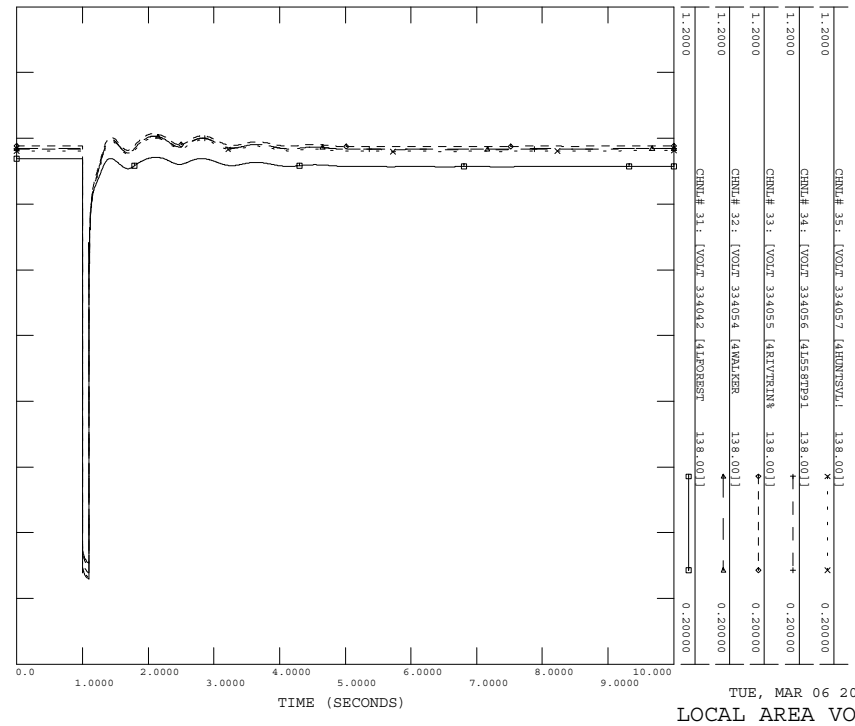
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 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2.OUT



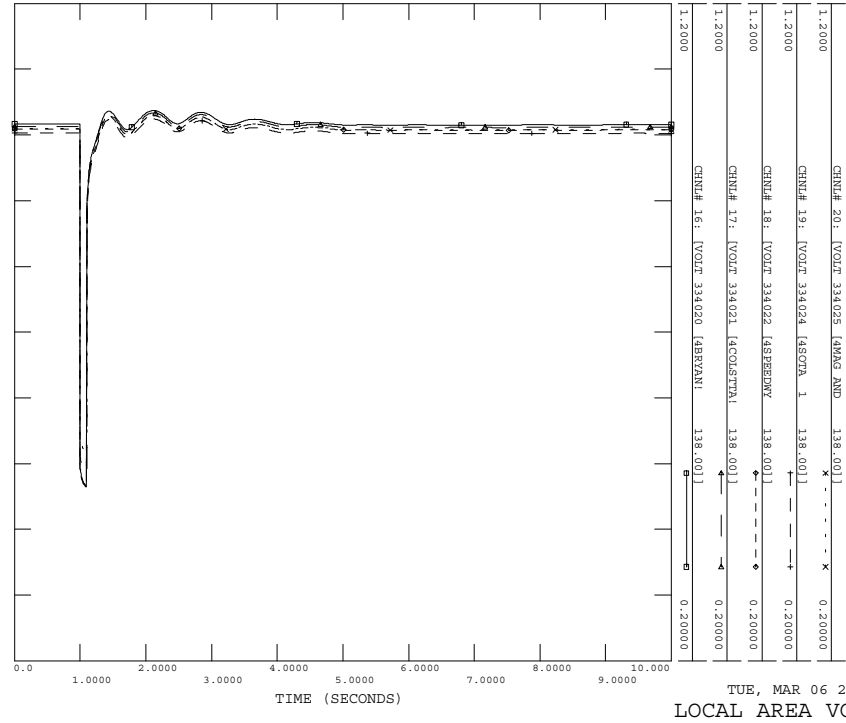
6CY 3PH FAULT LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: FAULT-2.OUT



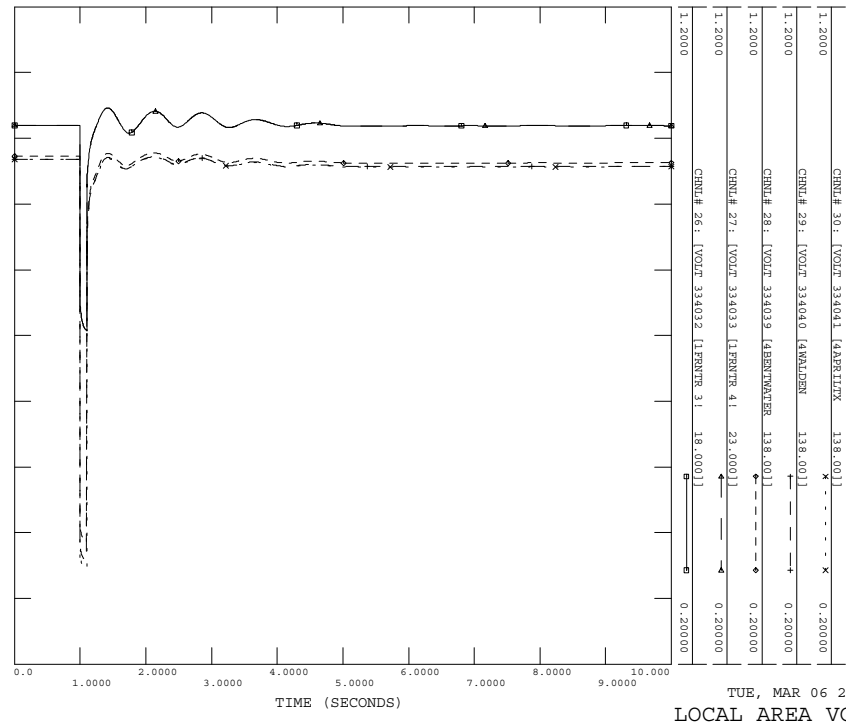
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 TRIP LEWIS CREEK-AIDEN 138 KV  
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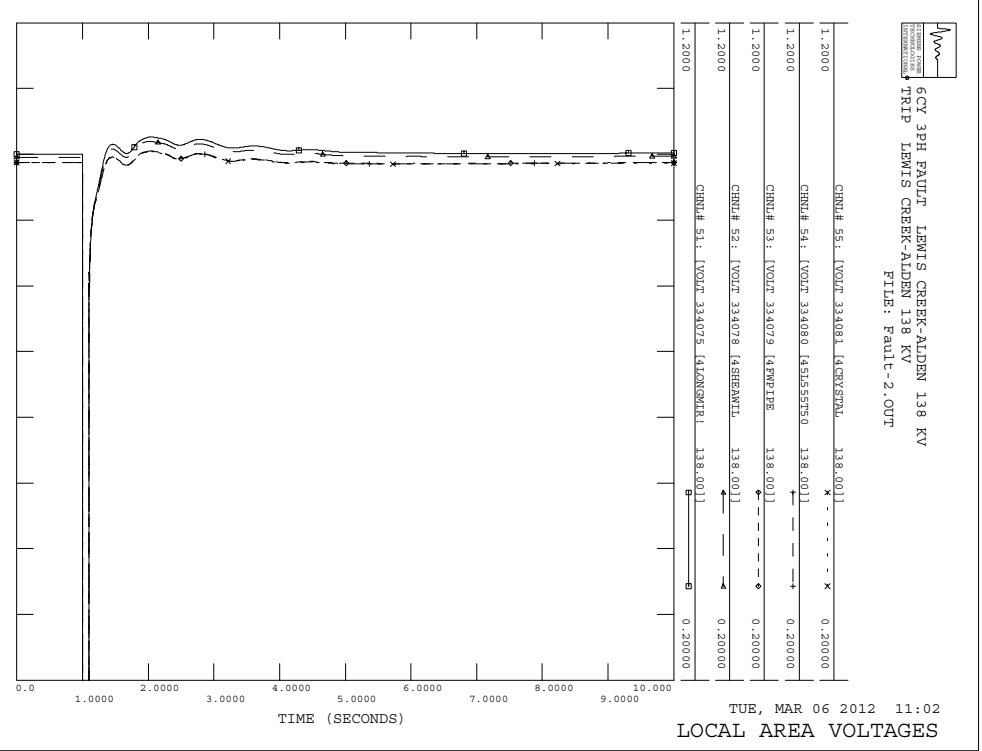
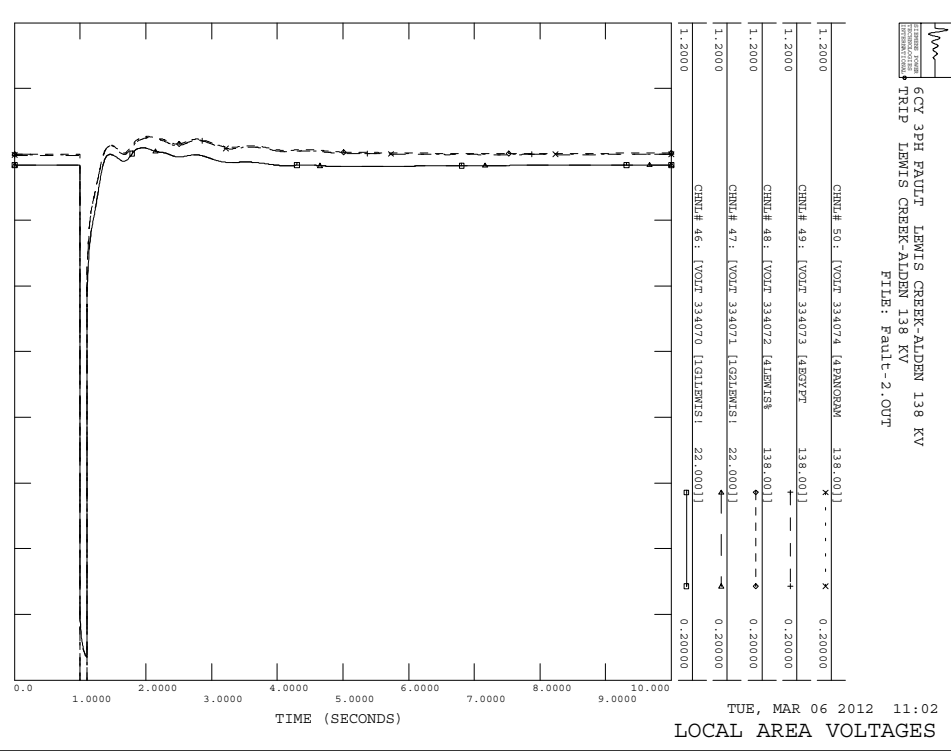
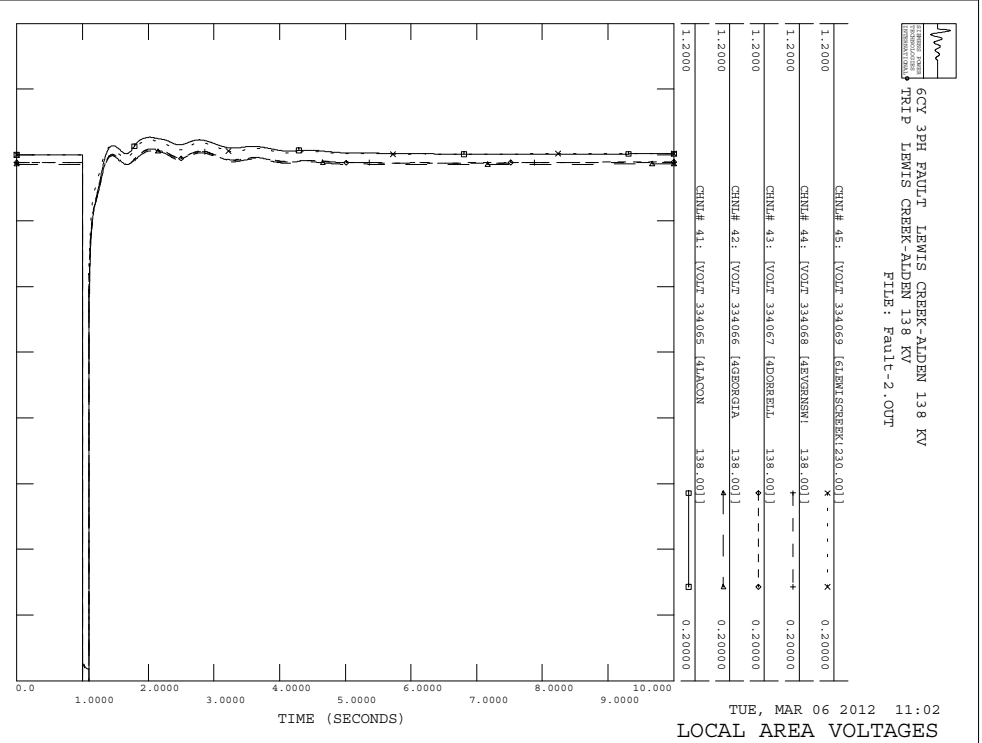
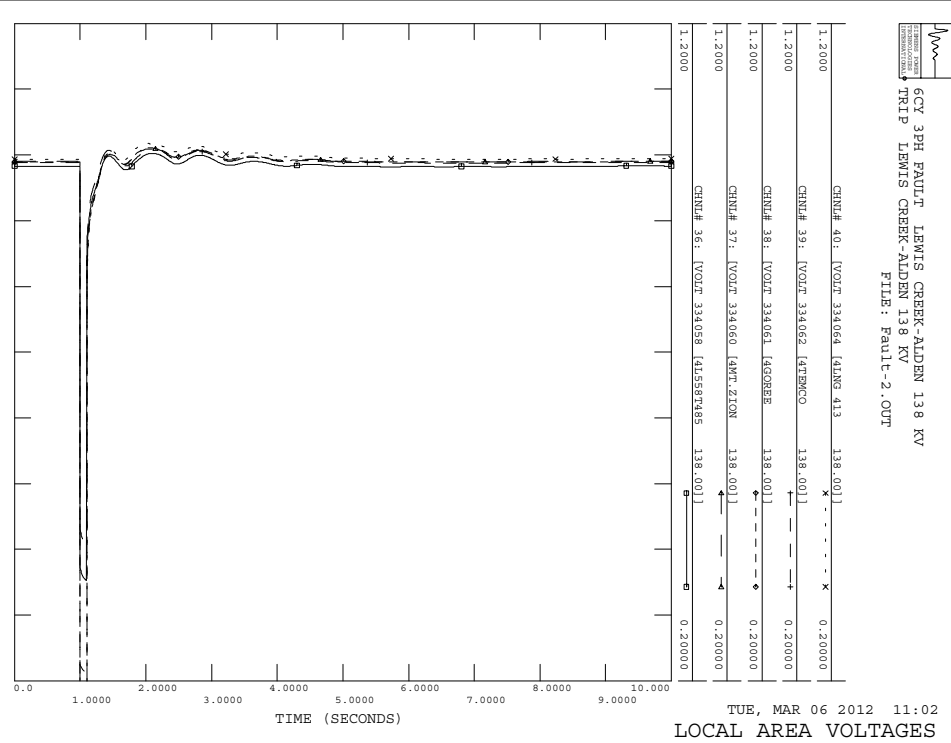


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 TRIP LEWIS CREEK-AIDEN 138 KV  
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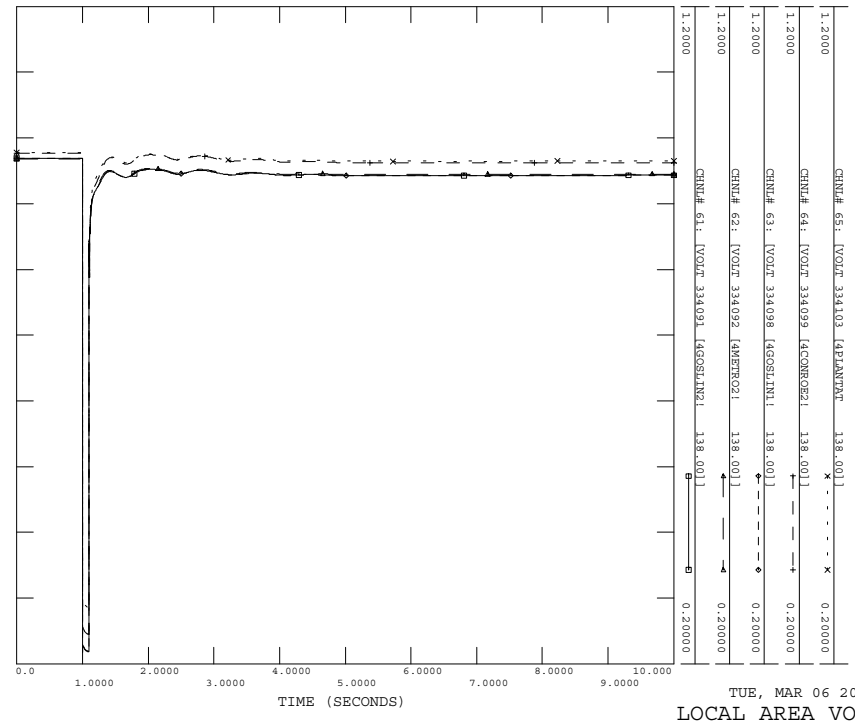


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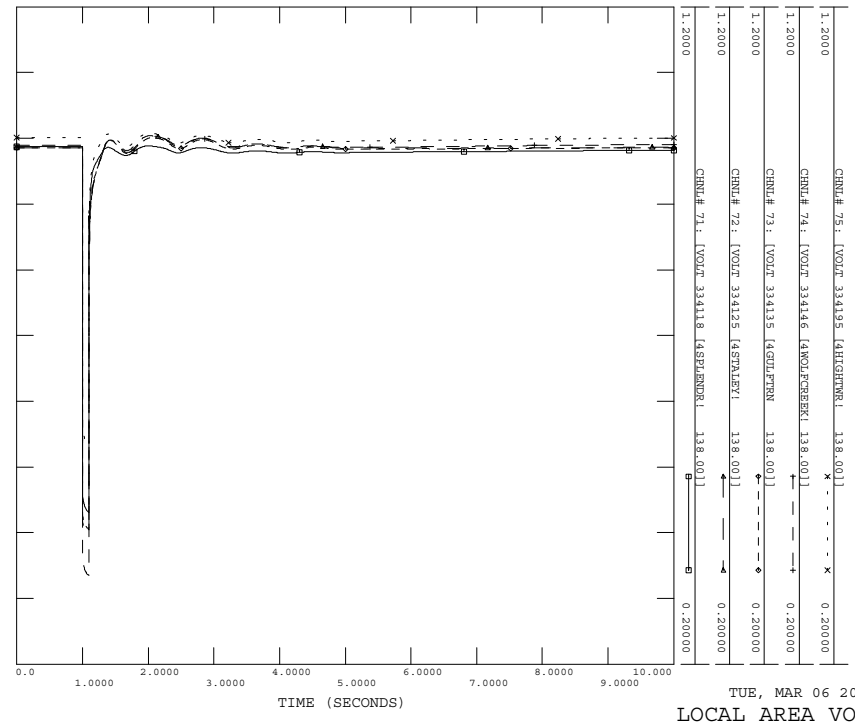




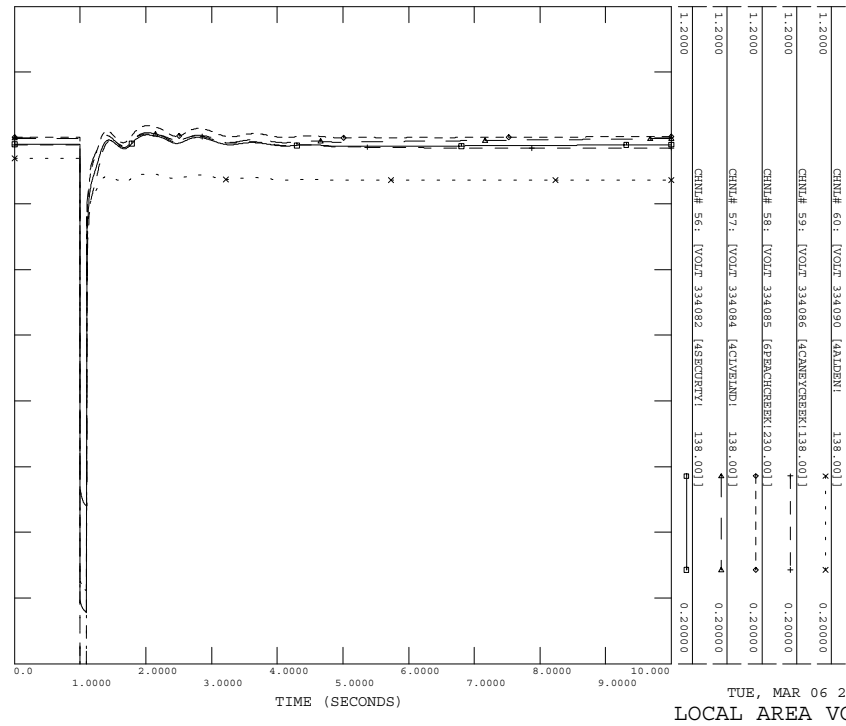
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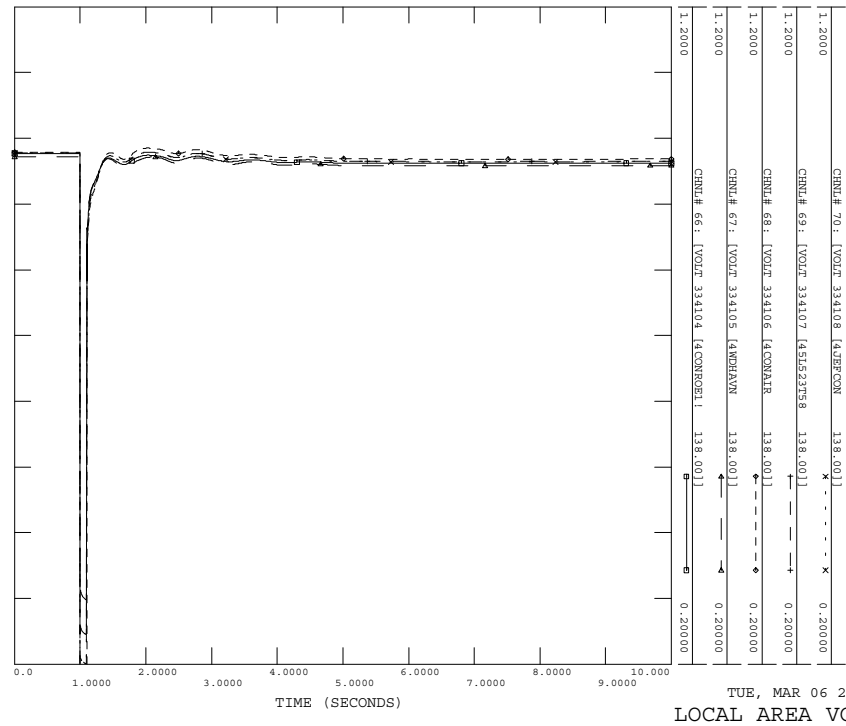
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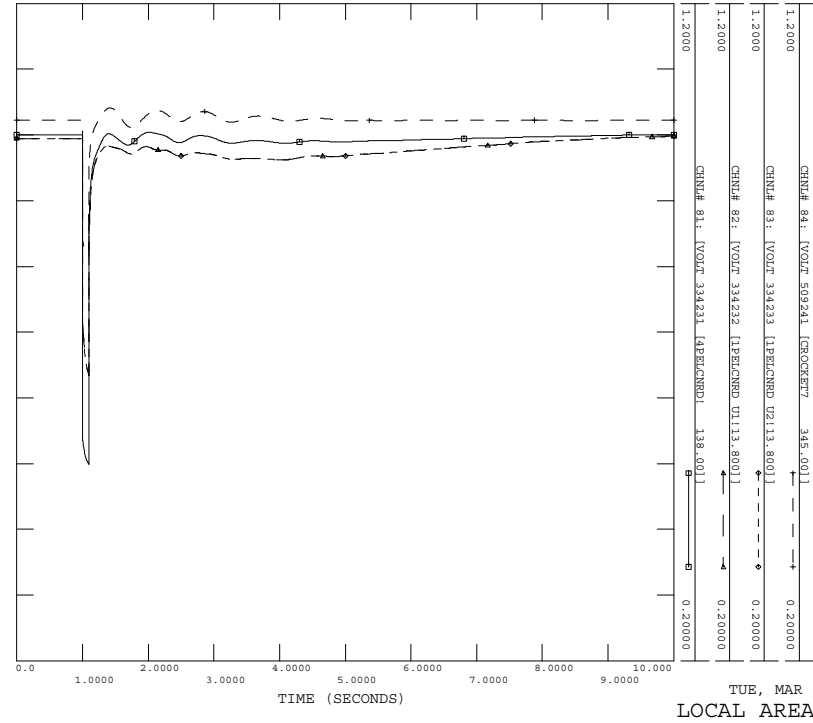
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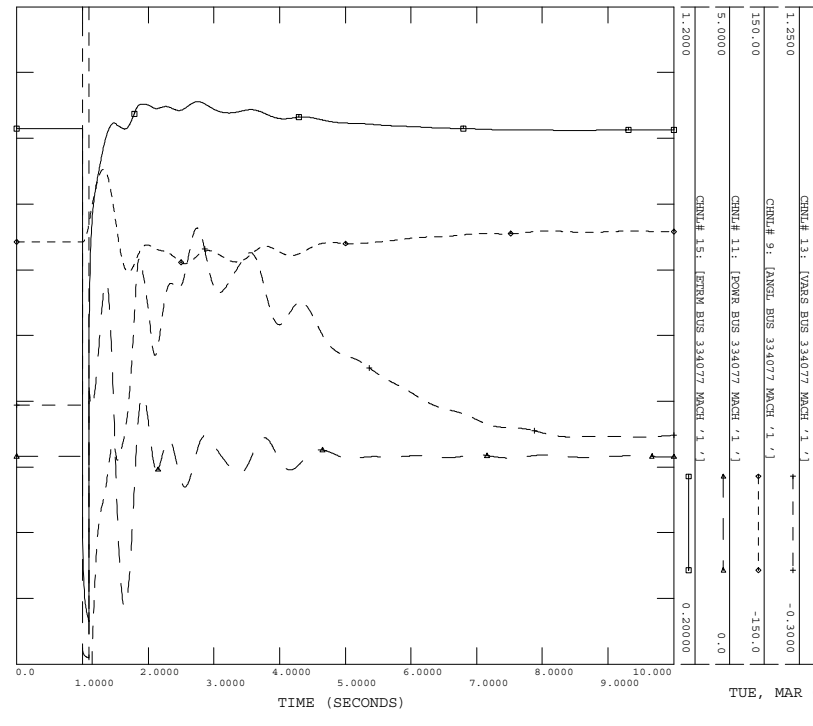
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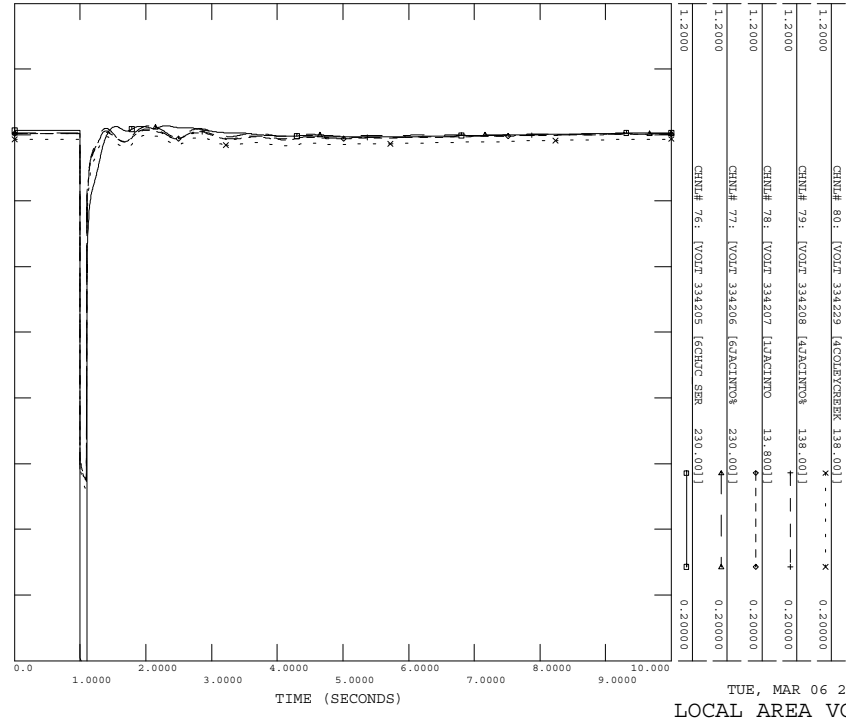
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FILE: FAULT-2.OUT



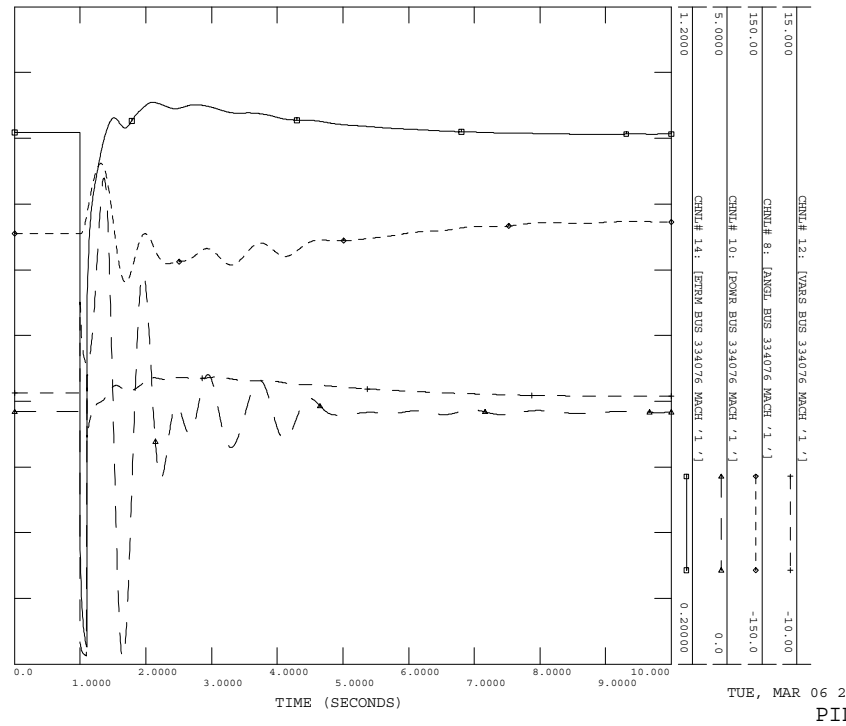
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TRIP LEWIS CREEK-AIDEN 138 KV  
FILE: FAULT-2.OUT



6CY 3PH FAULT LEWIS CREEK-AIDEN 138 KV  
TRIP LEWIS CREEK-AIDEN 138 KV  
FILE: FAULT-2.OUT



6CY 3PH FAULT LEWIS CREEK-AIDEN 138 KV  
TRIP LEWIS CREEK-AIDEN 138 KV  
FILE: FAULT-2.OUT



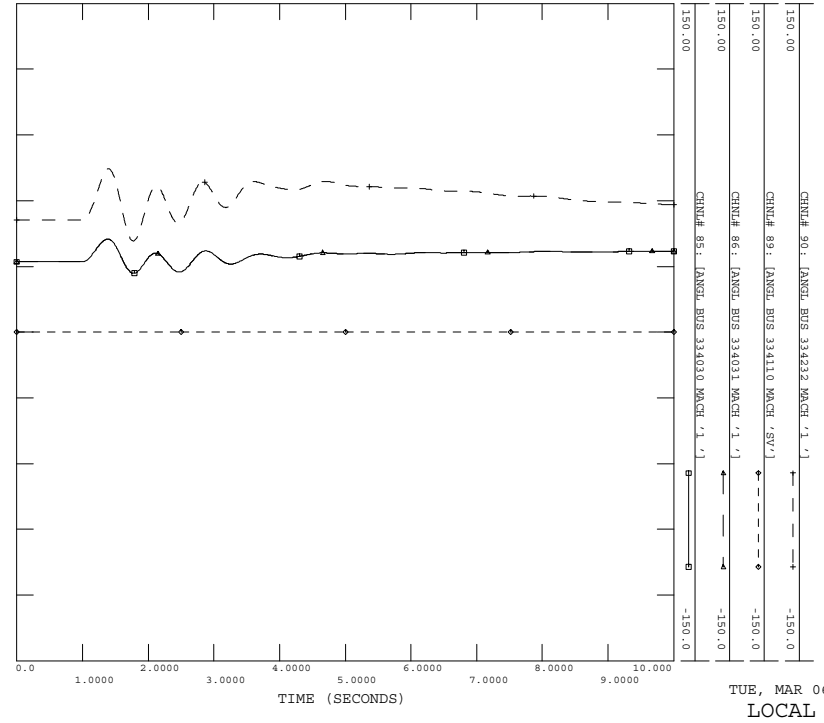


### **C.1.3 FAULT-3**

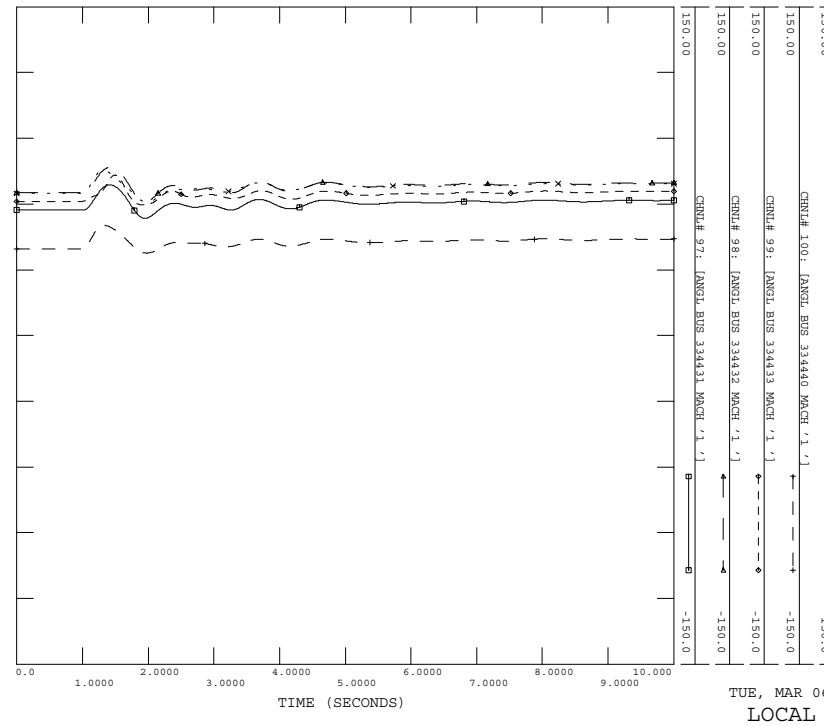
3 phase fault on the Lewis Creek-Conroe Bulk 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek-Conroe Bulk 138 kV

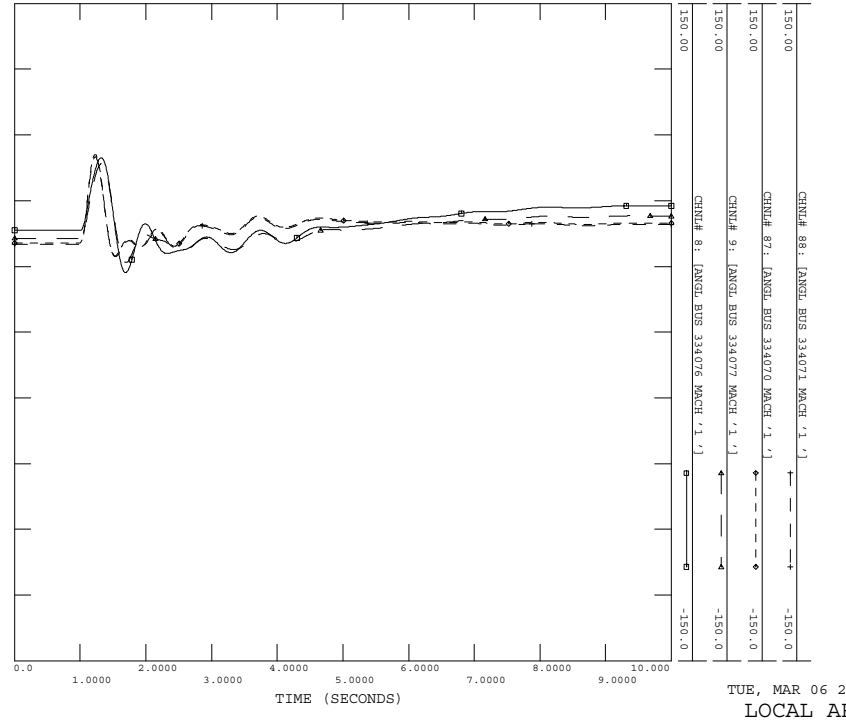
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 TRIP LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-3.OUT



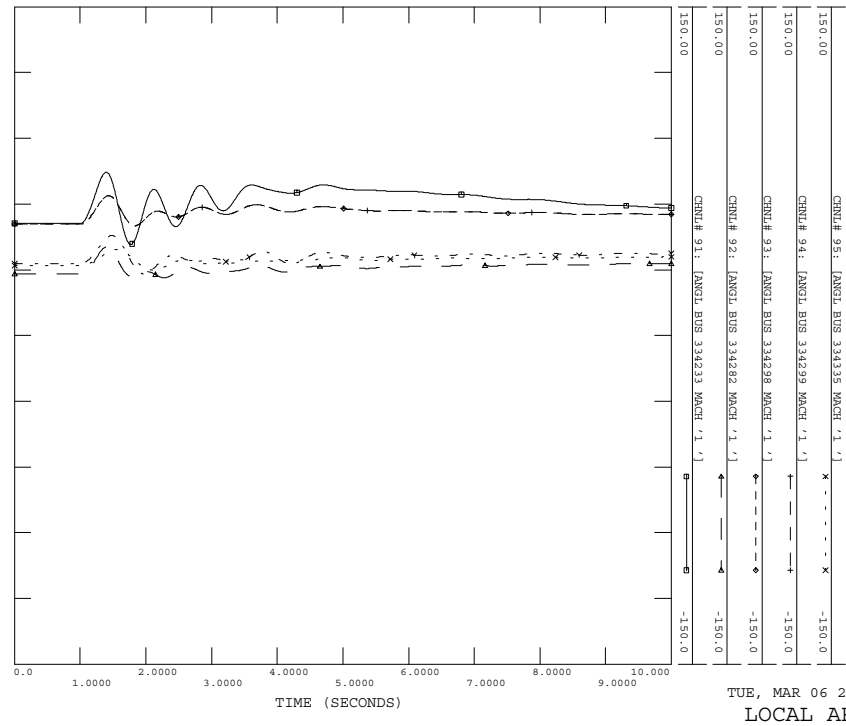
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 FILE: Fault-3.OUT



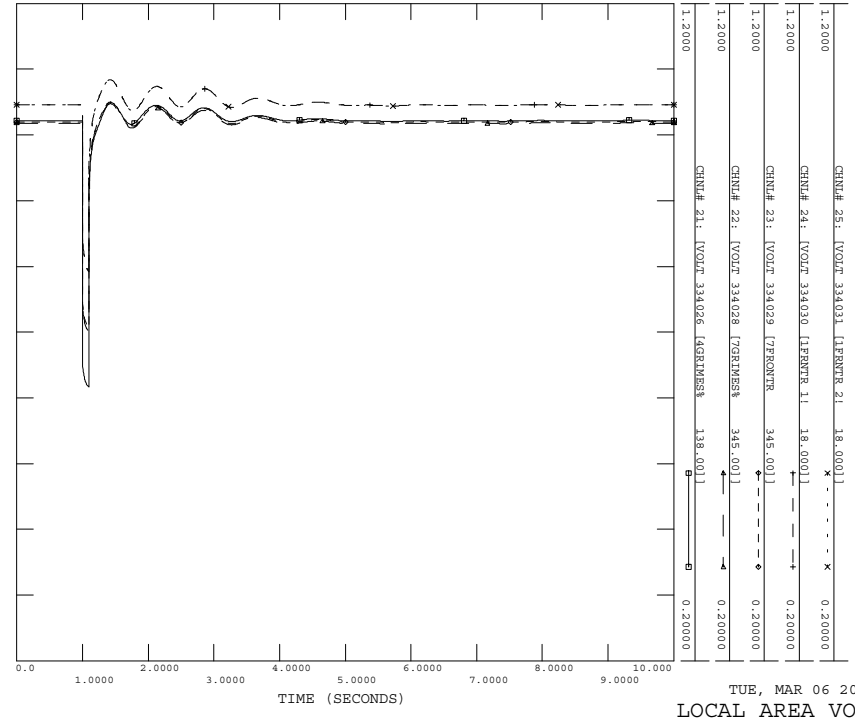
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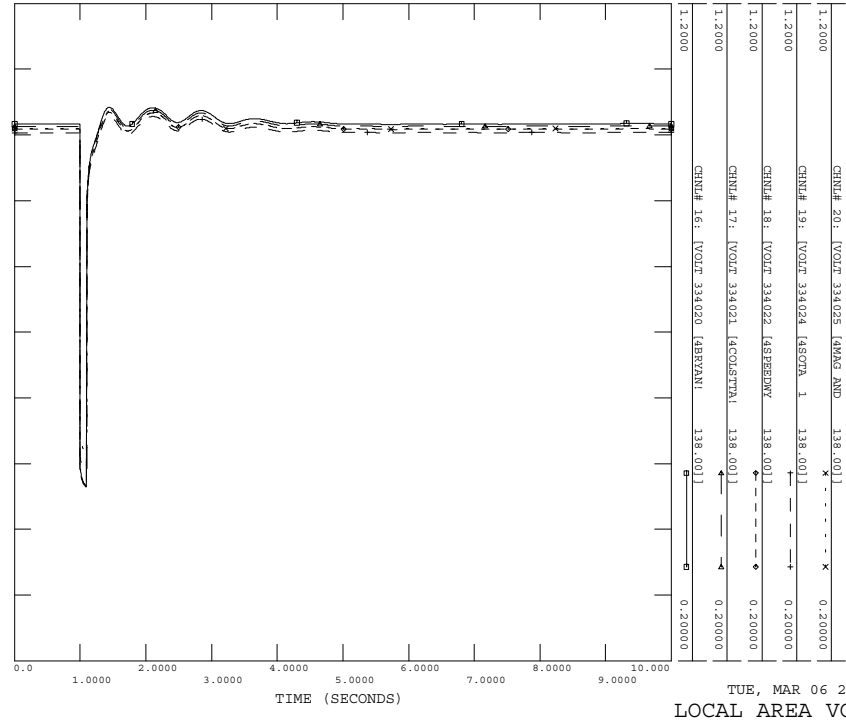
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 TRIP LEWIS CREEK-CONROE BULK 138 KV  
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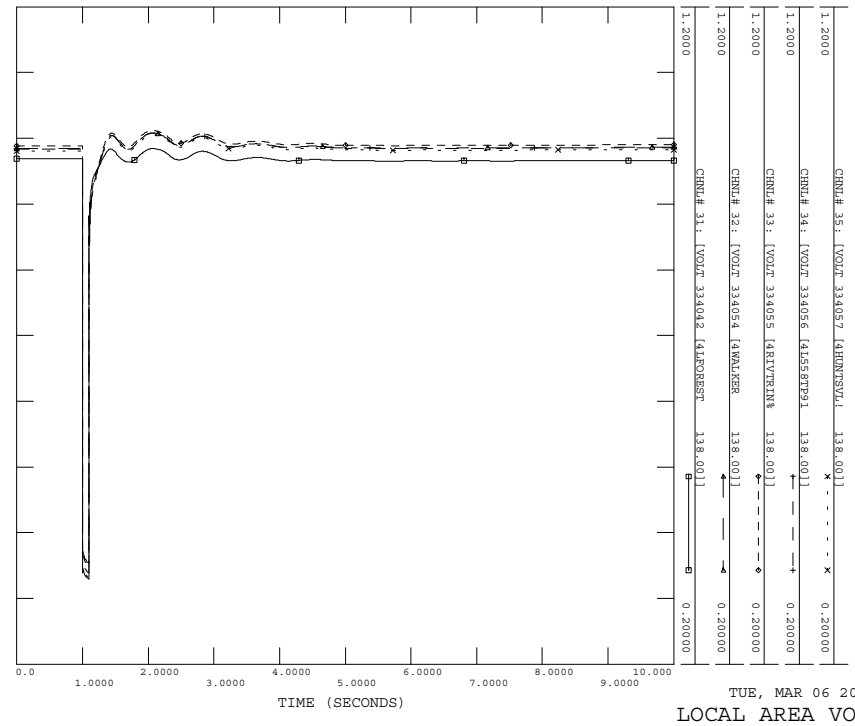
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 FILE: FAULT-3.OUT



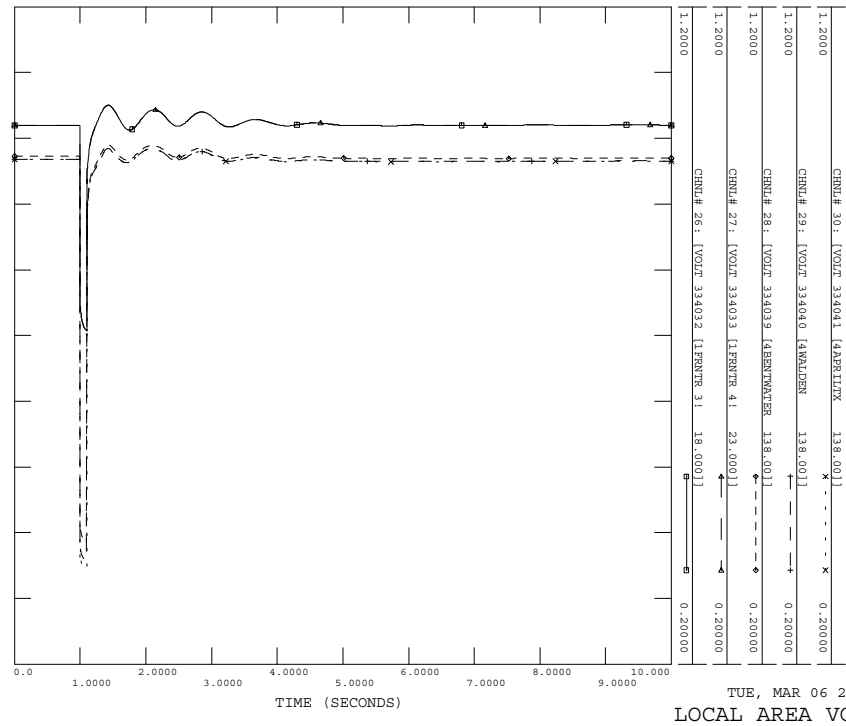
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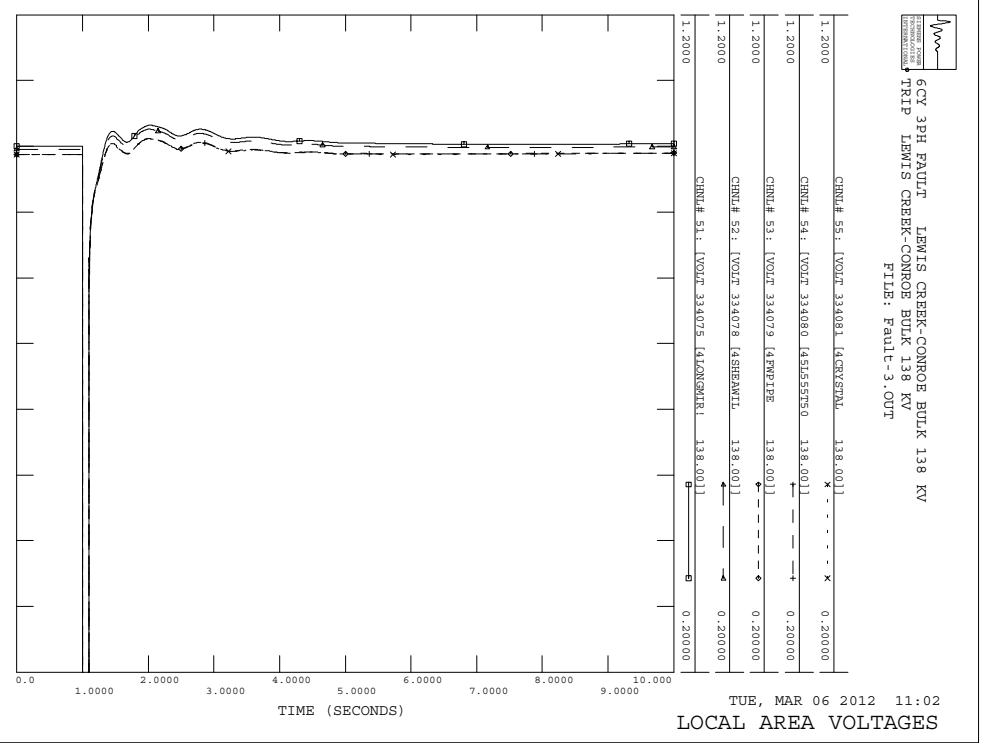
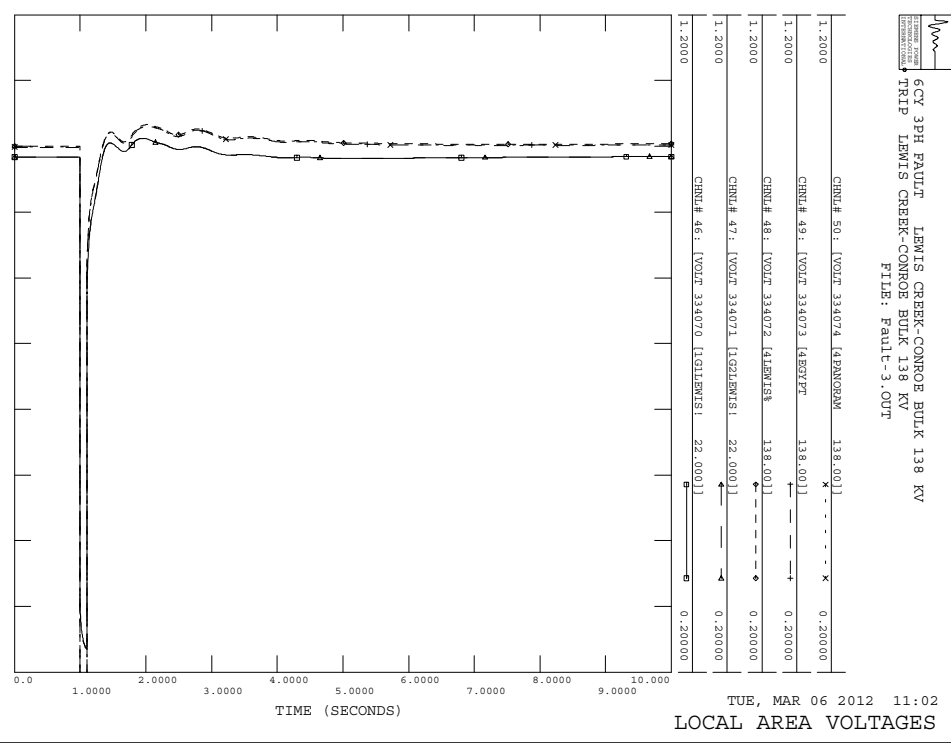
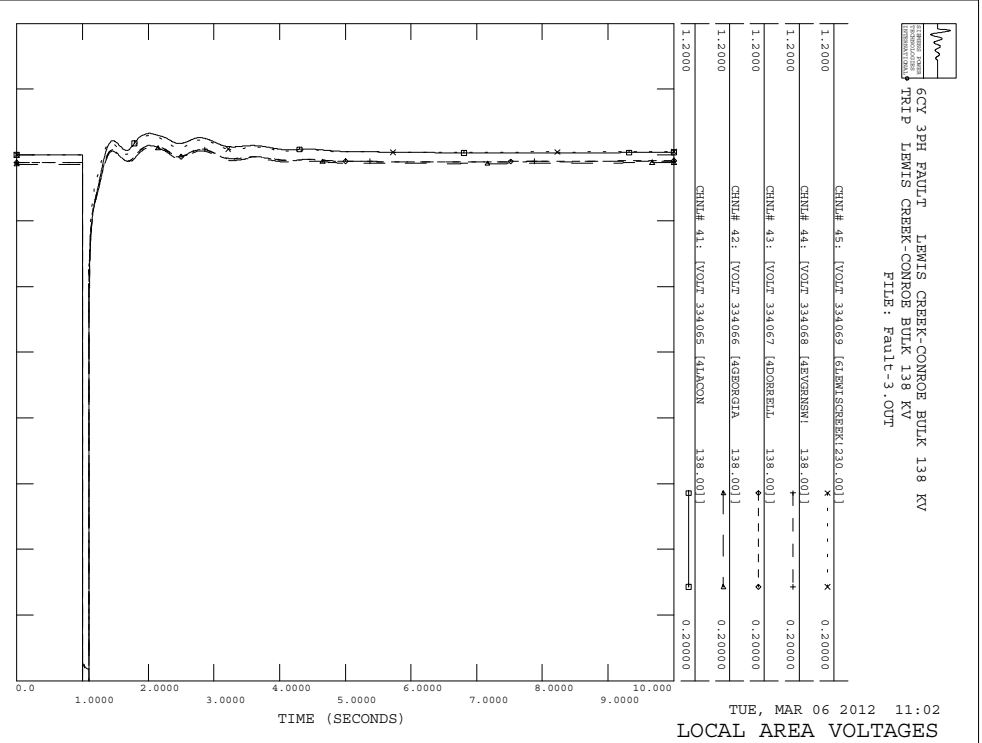
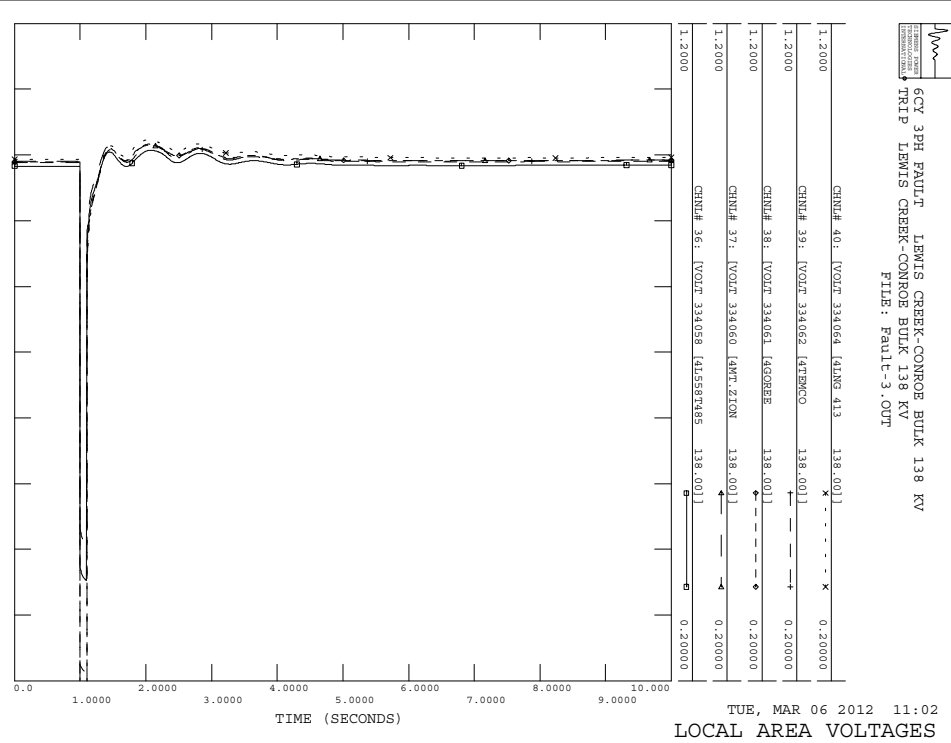


6CY 3PH FAULT LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK 138 KV  
 FILE: FAULT-3.OUT

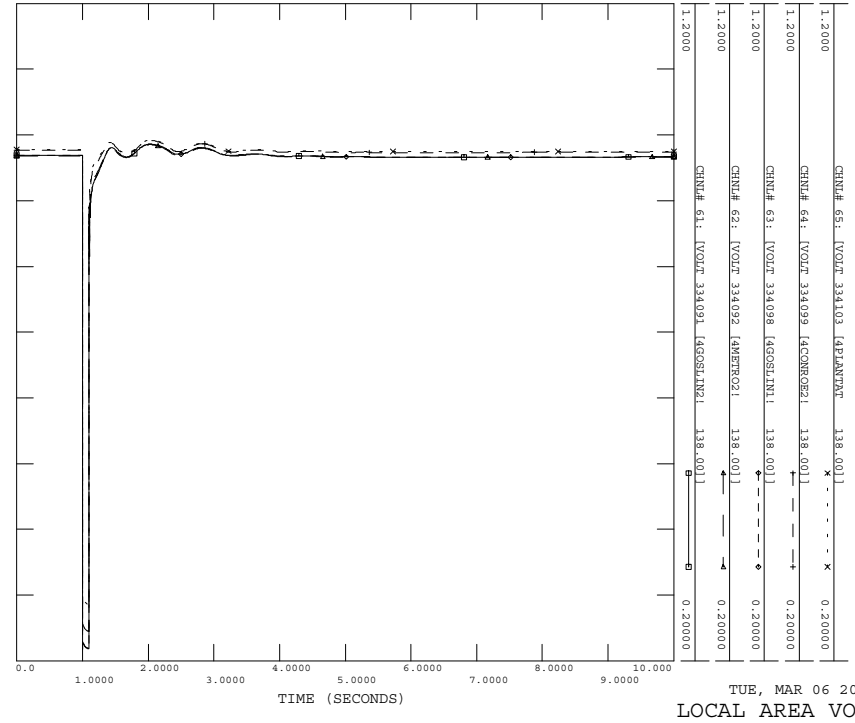


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 TRIP LEWIS CREEK-CONROE BULK 138 KV  
 FILE: FAULT-3.OUT

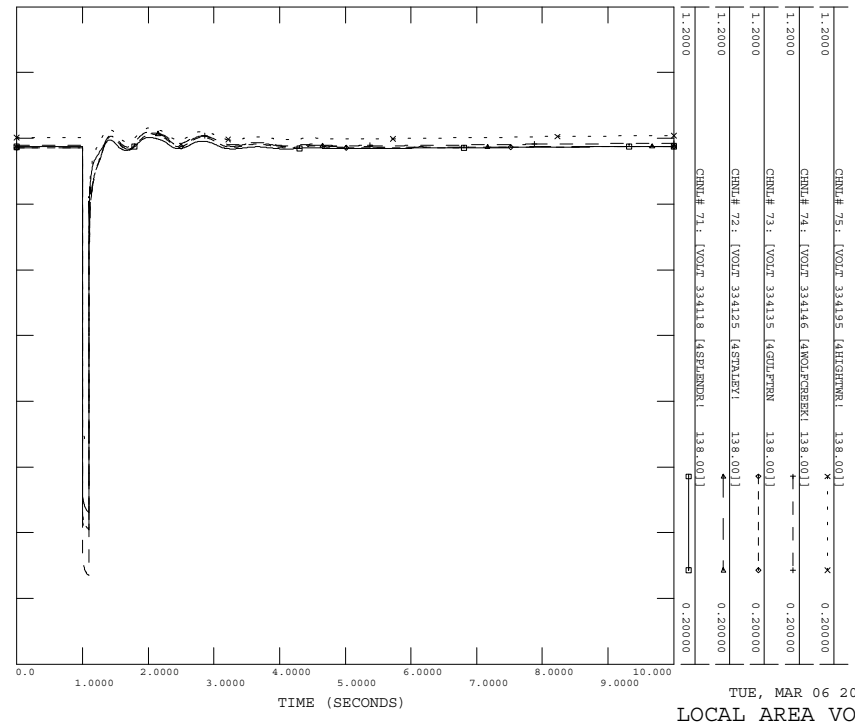




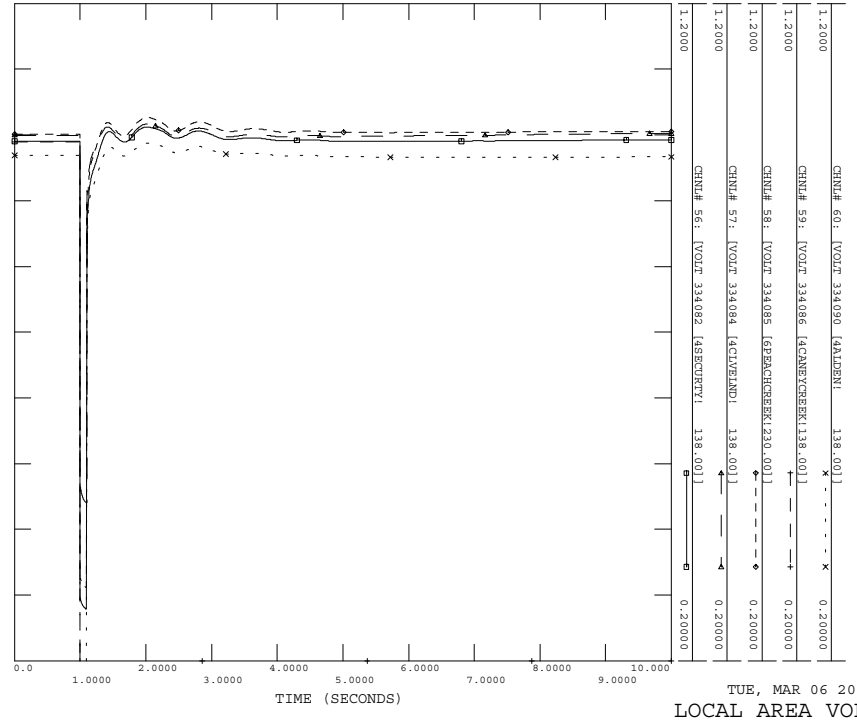
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 TRIP LEWIS CREEK-CONROE BULK 138 KV  
 FILE: FAULT-3.OUT



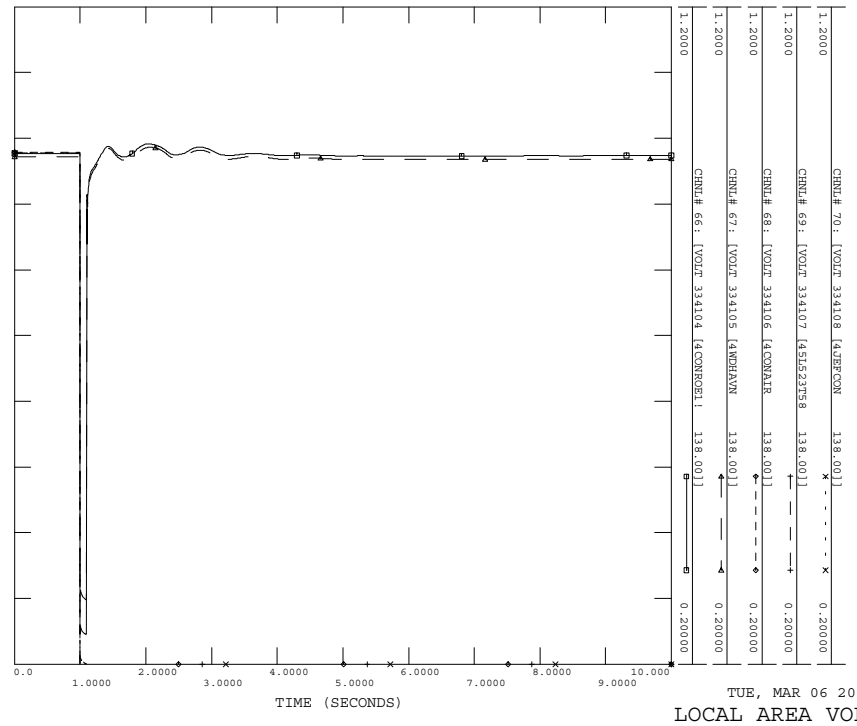
6CY 3PH FAULT LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK 138 KV  
 FILE: FAULT-3.OUT



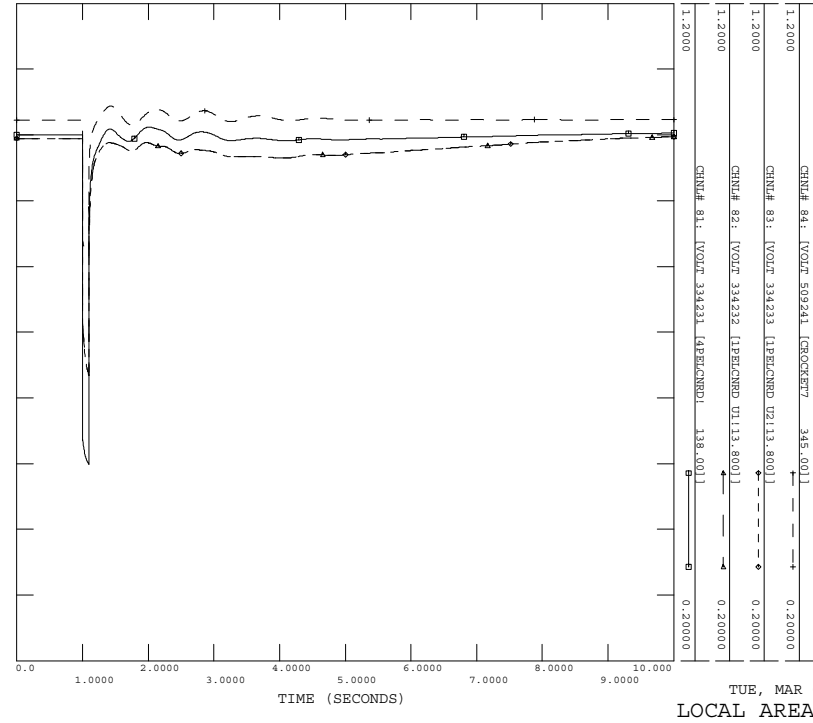
6CY 3PH FAULT LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK 138 KV  
 FILE: FAULT-3.OUT



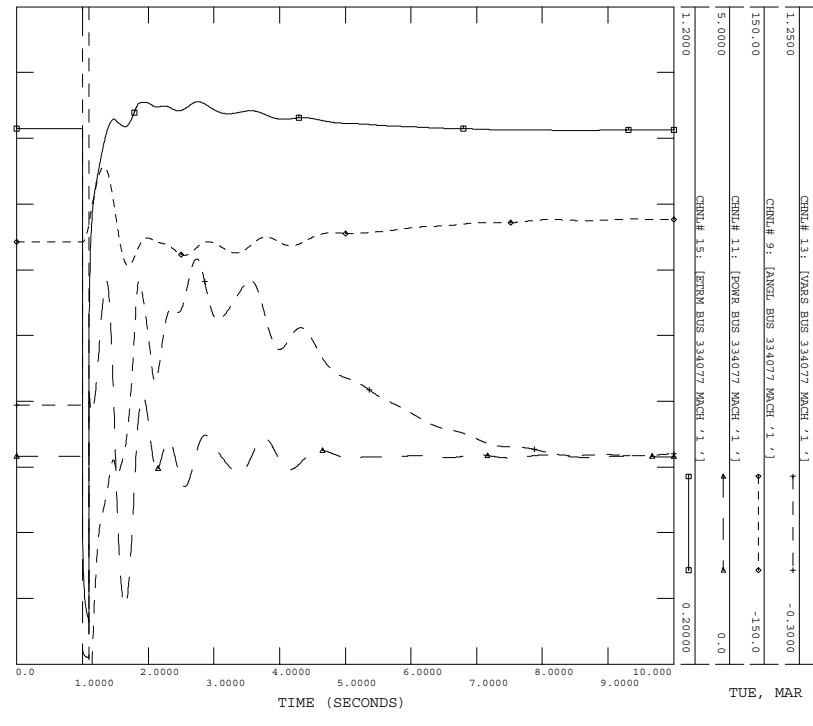
6CY 3PH FAULT LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK 138 KV  
 FILE: FAULT-3.OUT



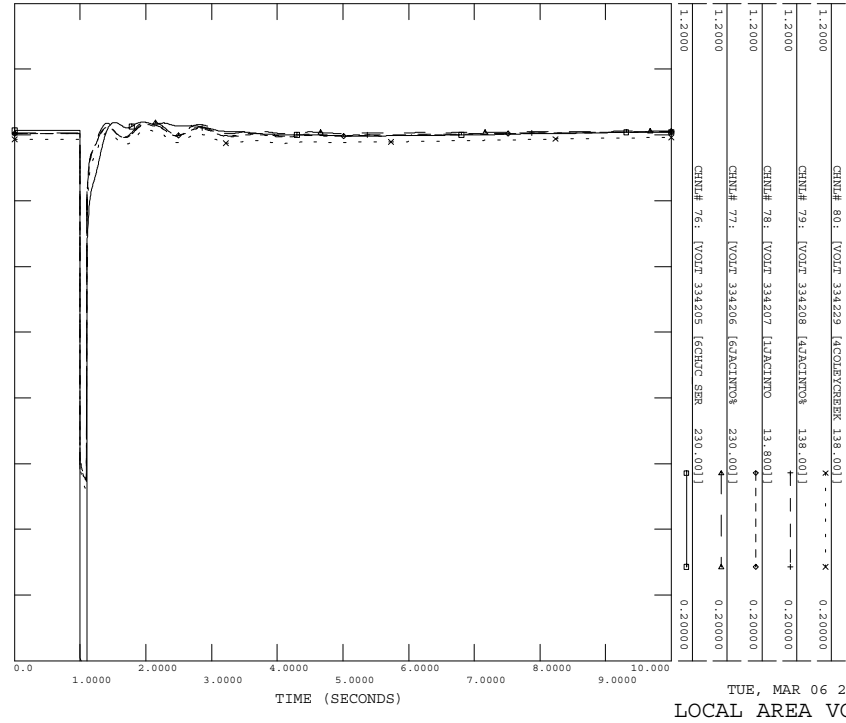
6CY 3PH FAULT LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-3.OUT



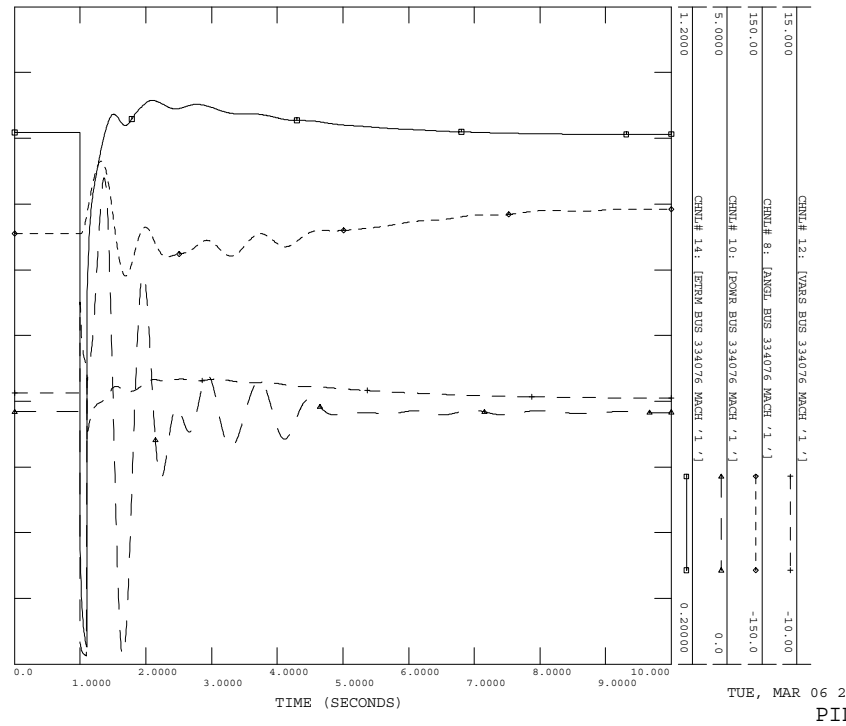
6CY 3PH FAULT LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-3.OUT



6CY 3PH FAULT LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-3.OUT



6CY 3PH FAULT LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-3.OUT

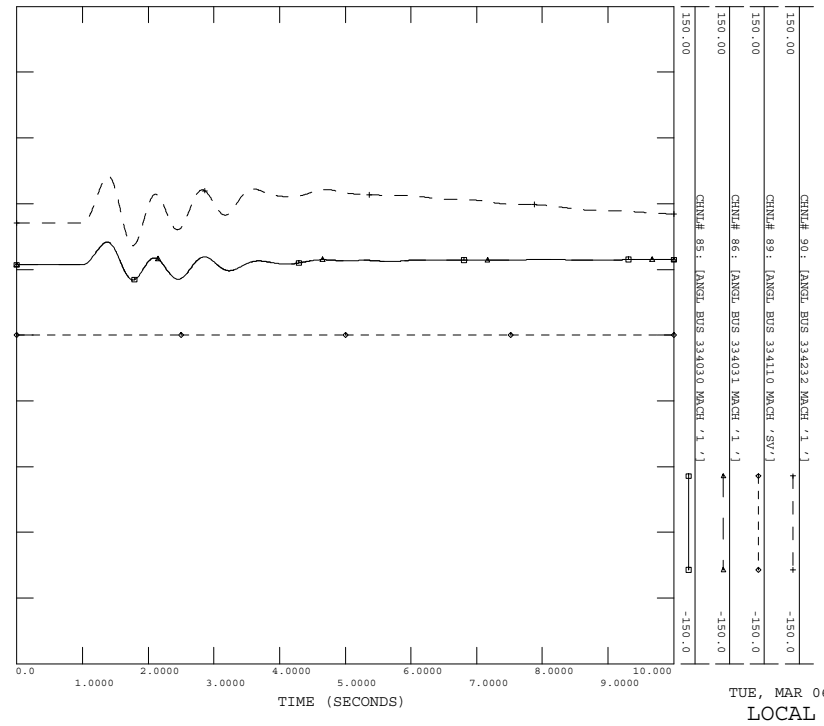


#### **C.1.4 FAULT-4**

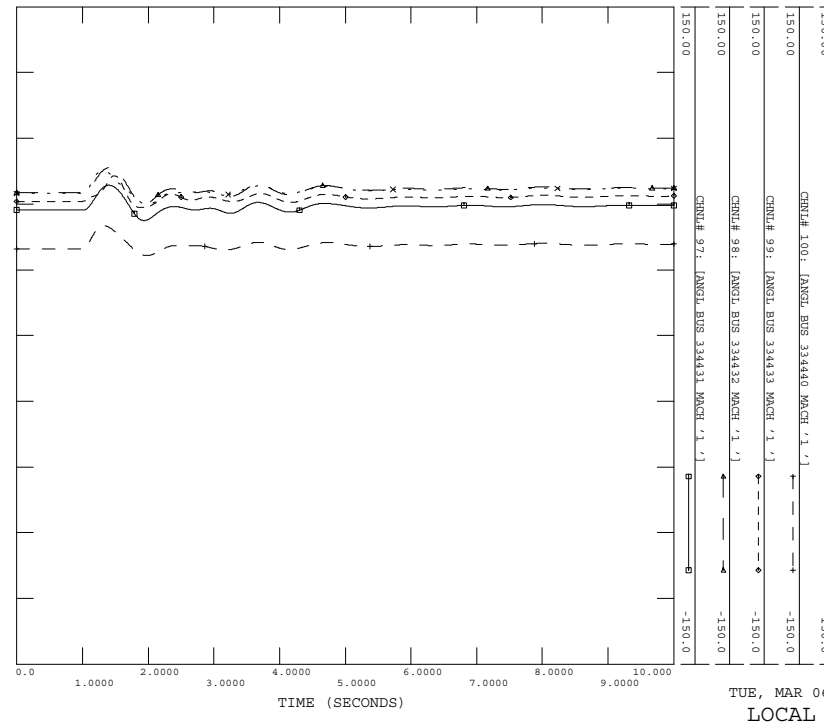
3 phase fault on the Lewis Creek-Security 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek-Security 138 kV

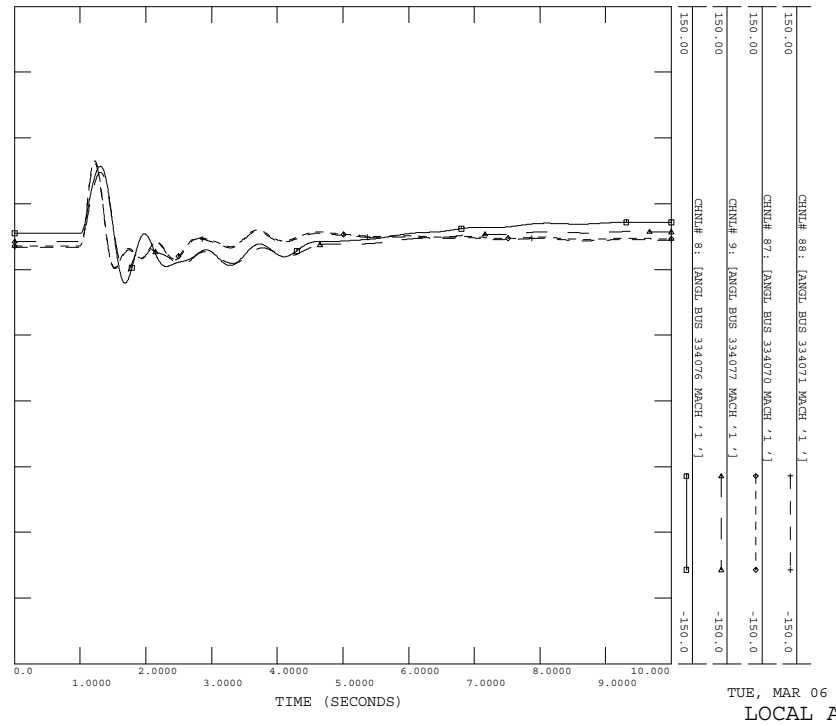
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-4.OUT



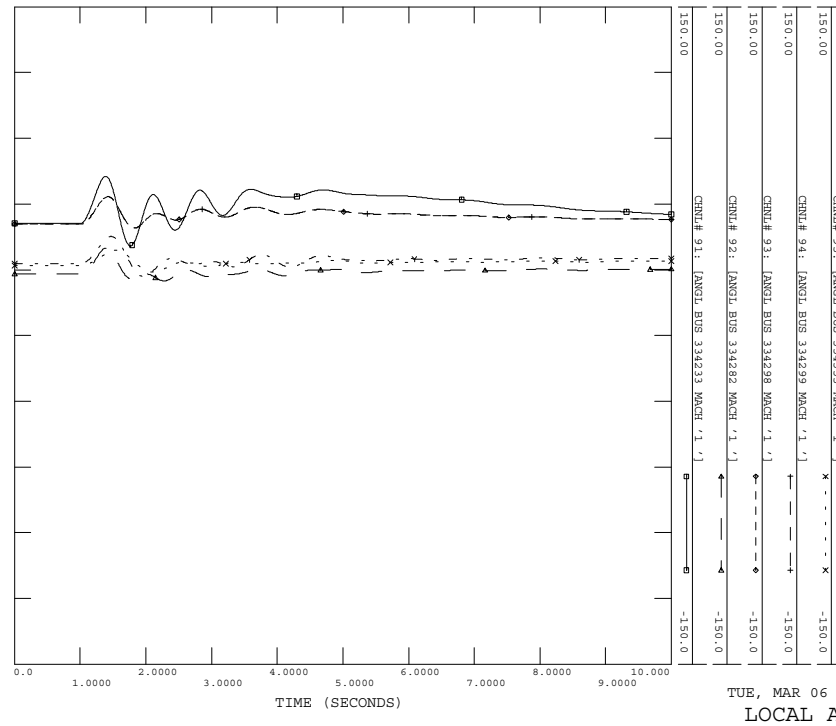
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-4.OUT



6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-4.OUT

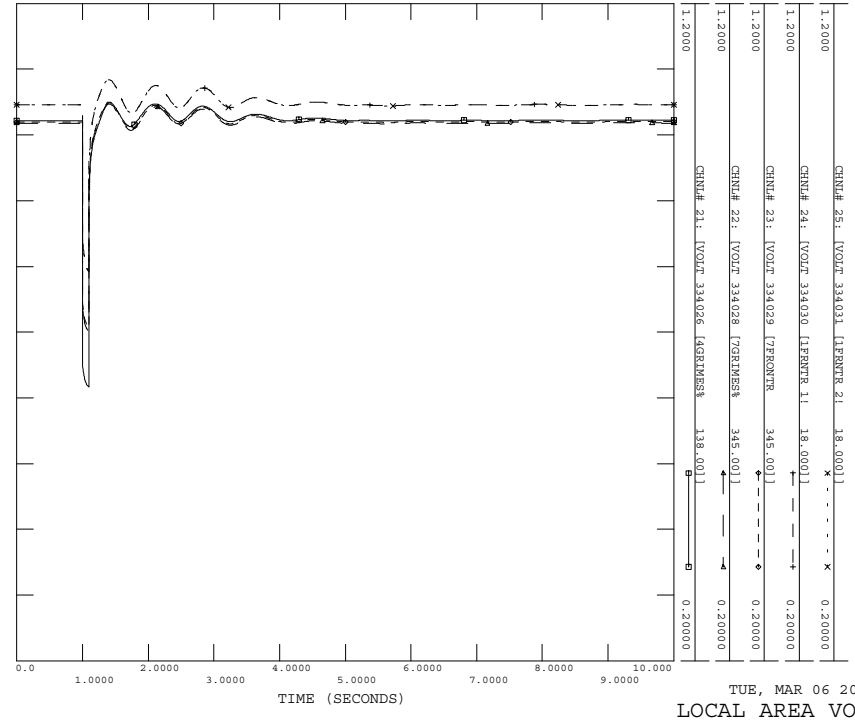


6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-4.OUT

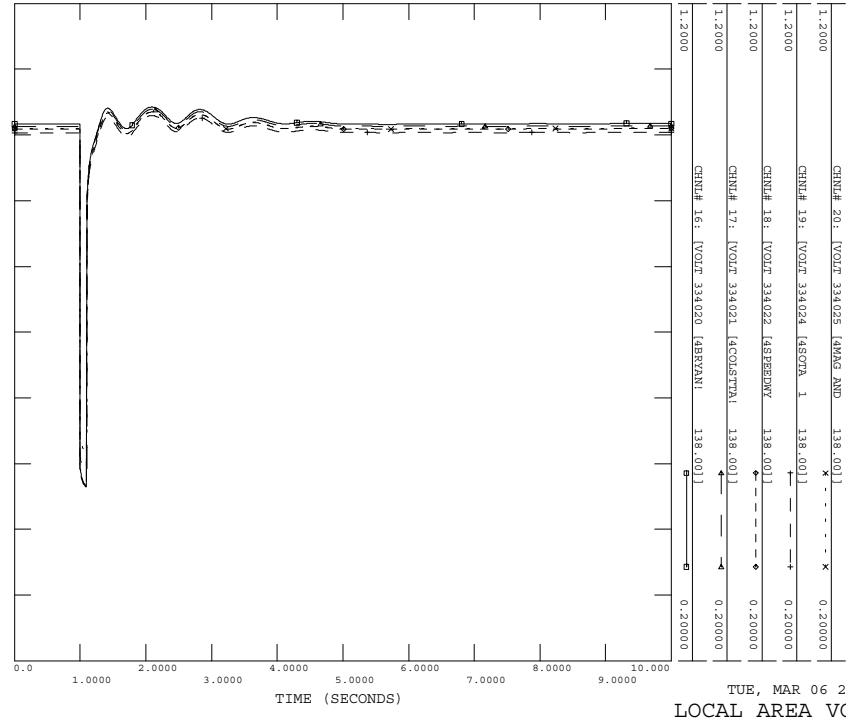




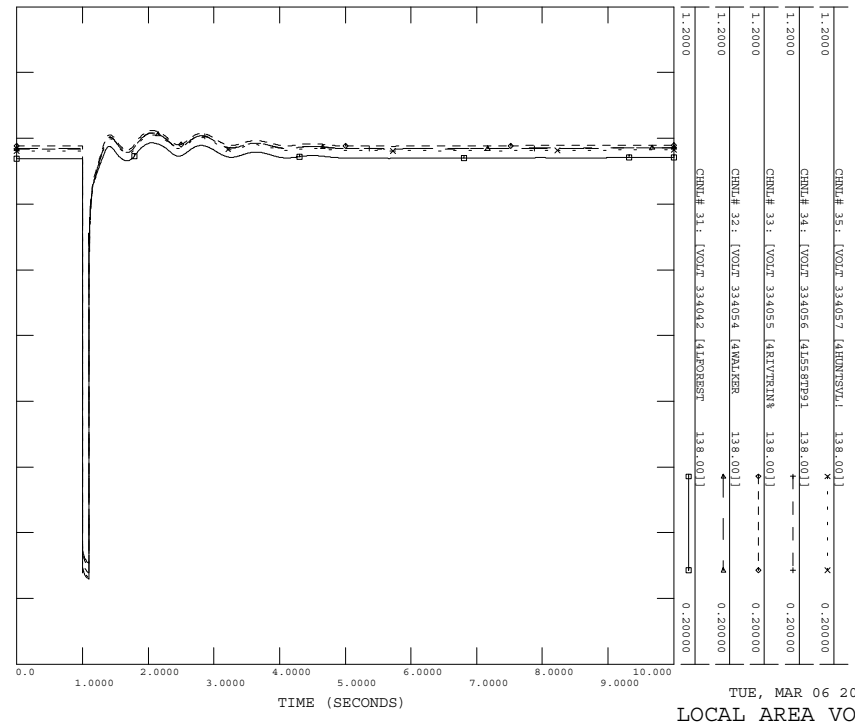
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: FAULT-4.OUT



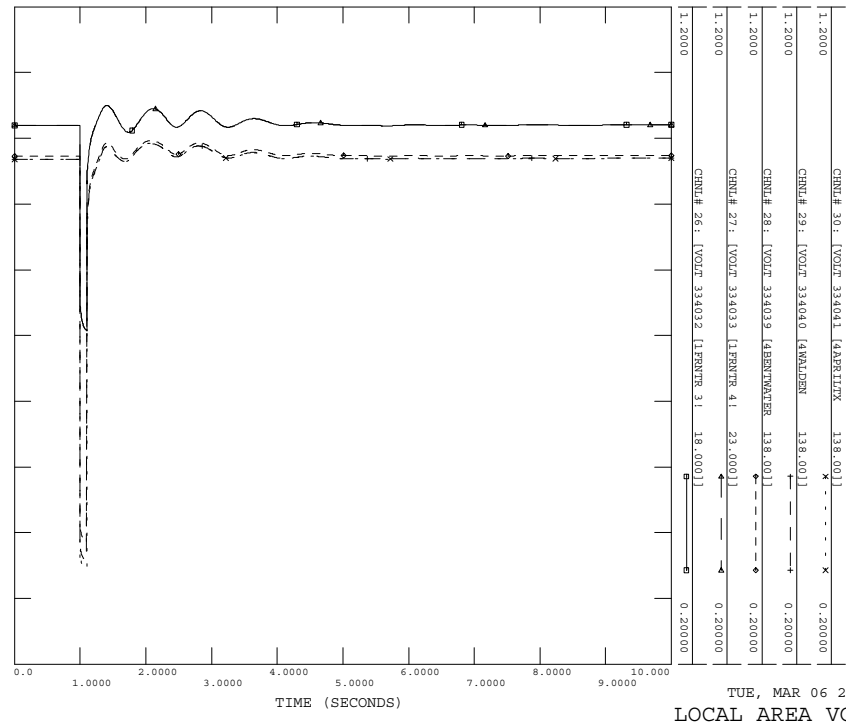
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: FAULT-4.OUT



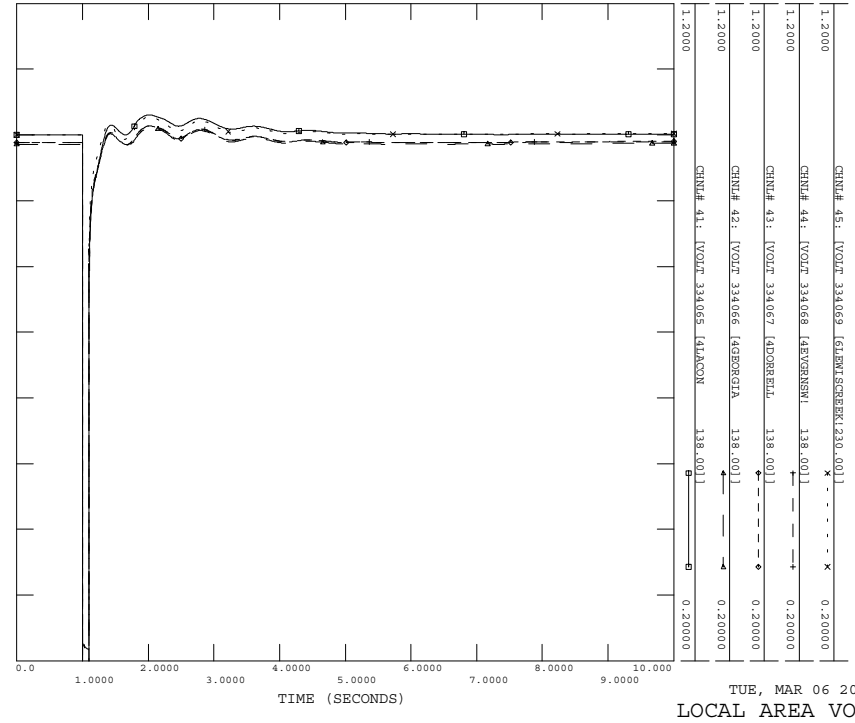
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: FAULT-4.OUT



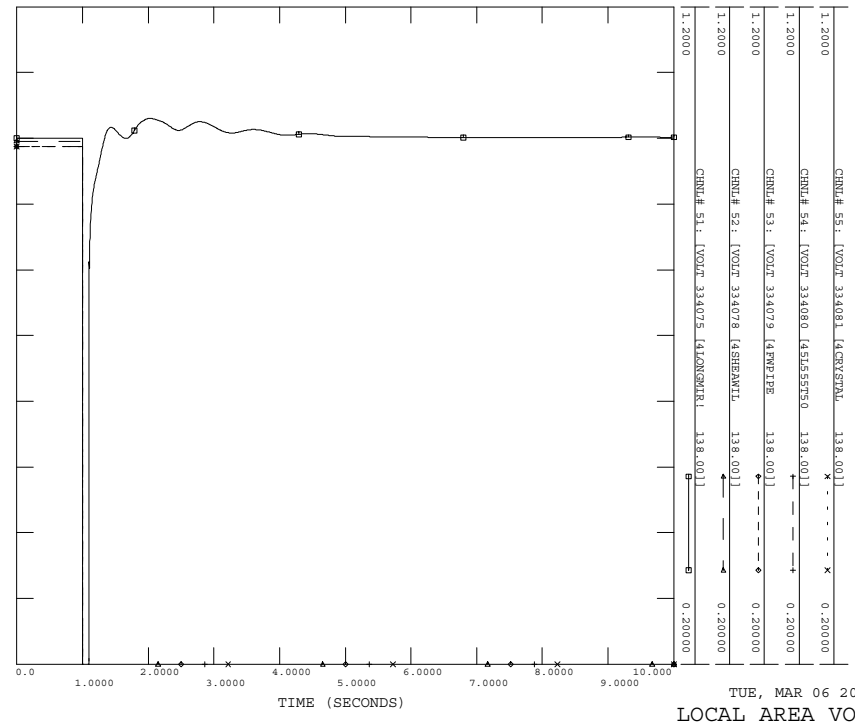
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: FAULT-4.OUT



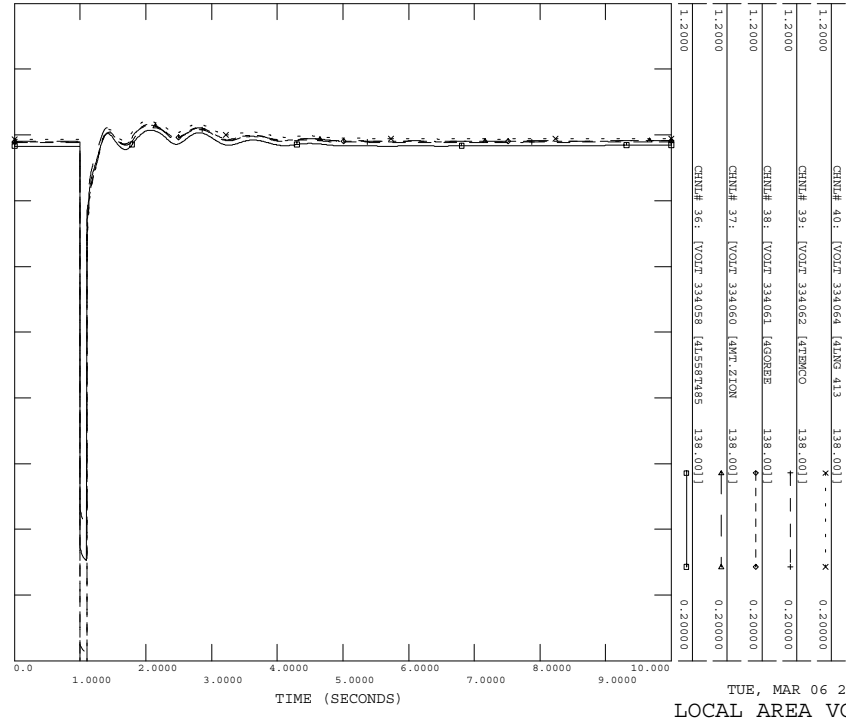
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: FAULT-4.OUT



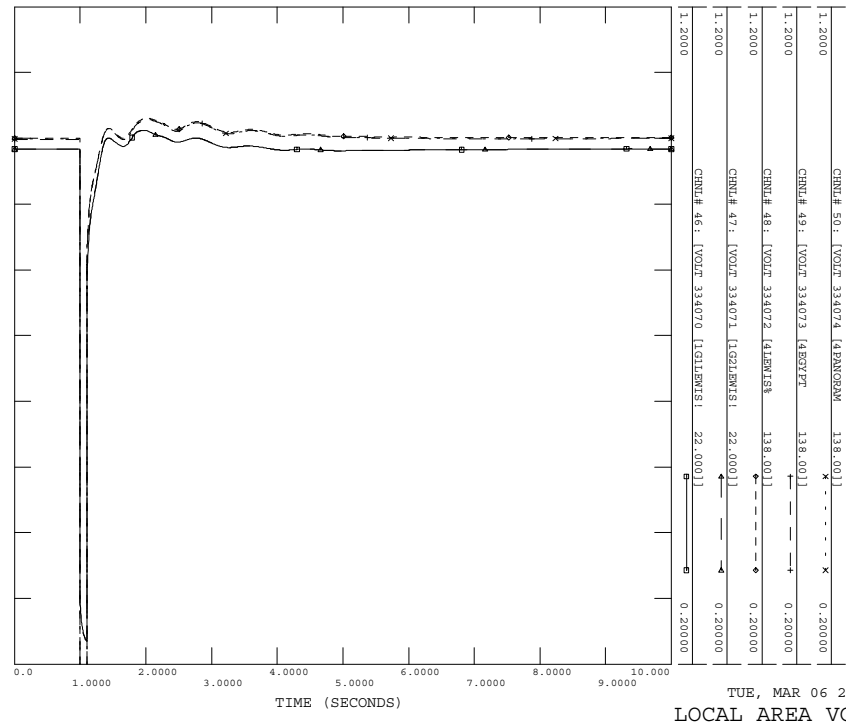
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: FAULT-4.OUT



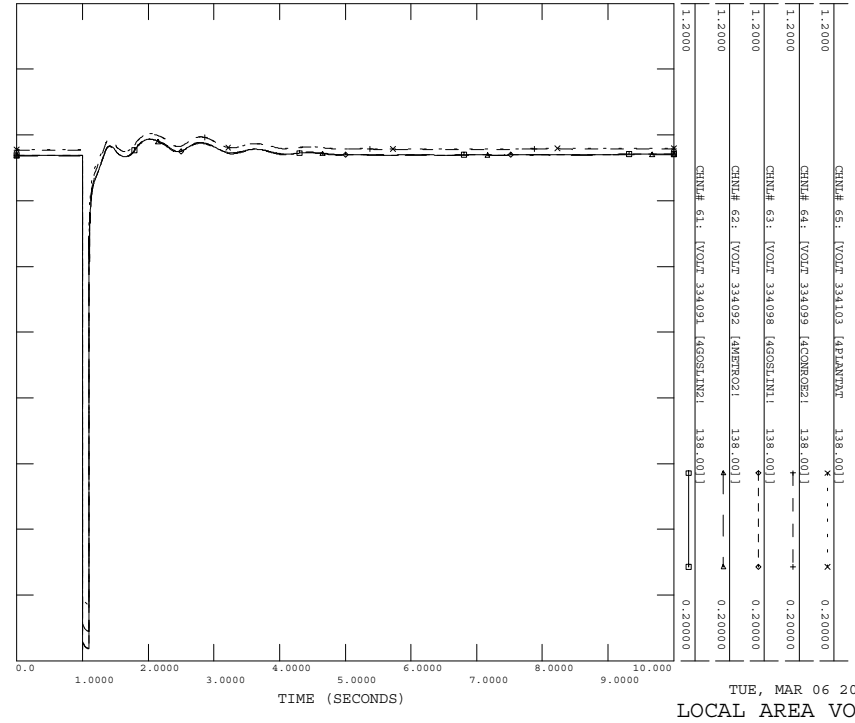
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: FAULT-4.OUT



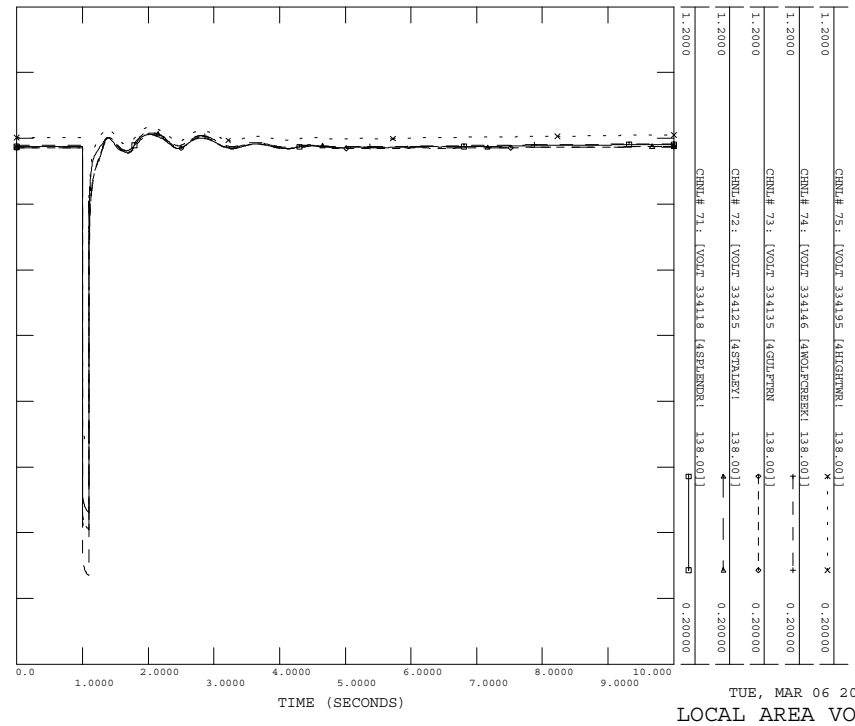
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: FAULT-4.OUT



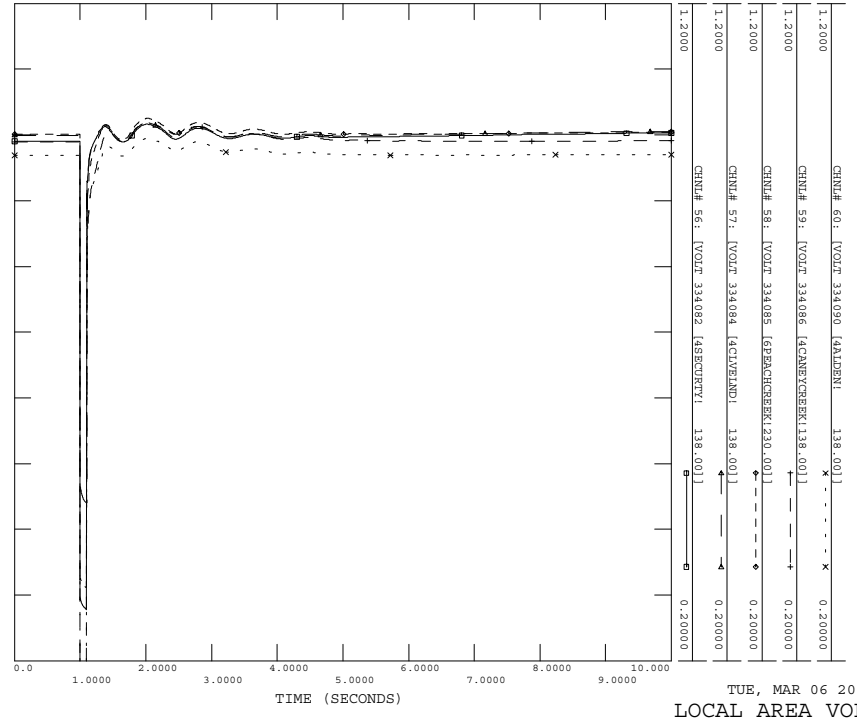
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
TRIP LEWIS CREEK-SECURITY 138 KV  
FILE: FAULT-4.OUT



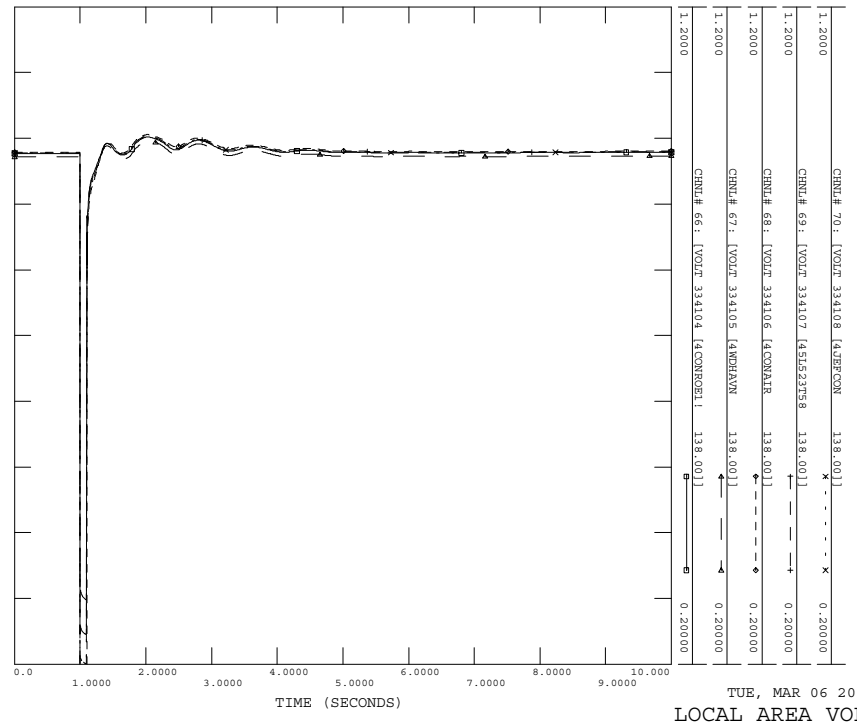
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
TRIP LEWIS CREEK-SECURITY 138 KV  
FILE: FAULT-4.OUT



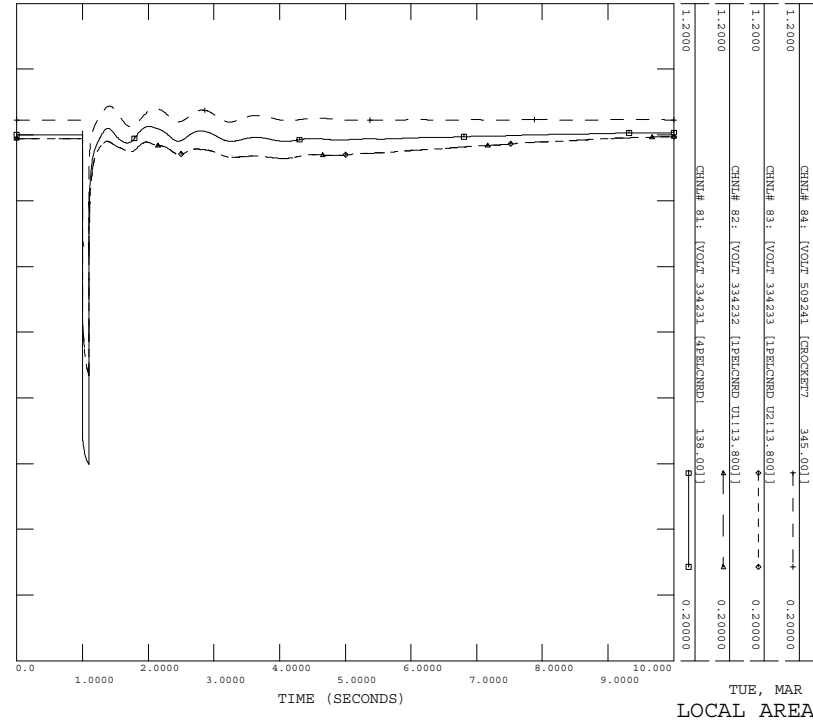
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
TRIP LEWIS CREEK-SECURITY 138 KV  
FILE: FAULT-4.OUT



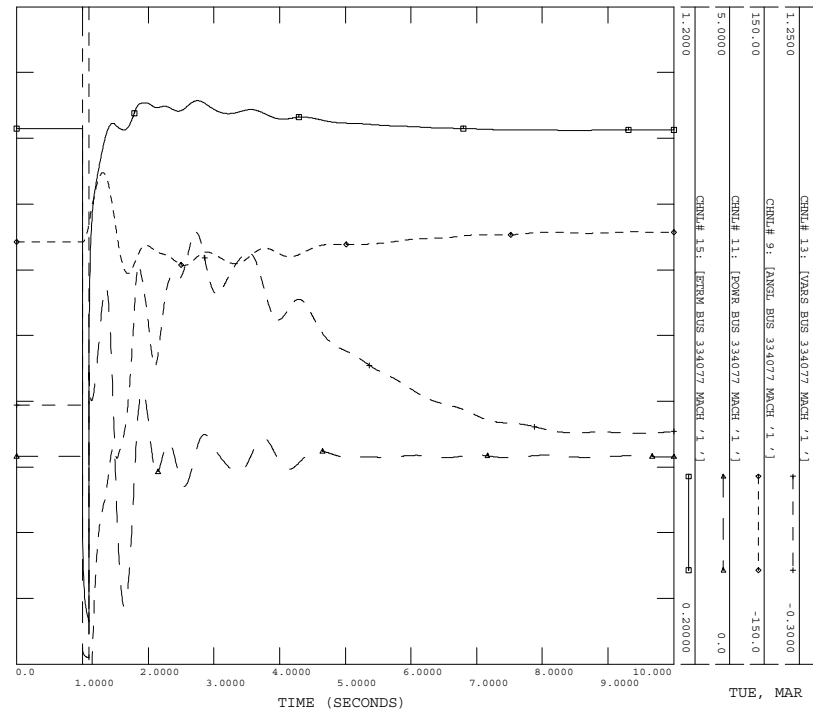
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
TRIP LEWIS CREEK-SECURITY 138 KV  
FILE: FAULT-4.OUT



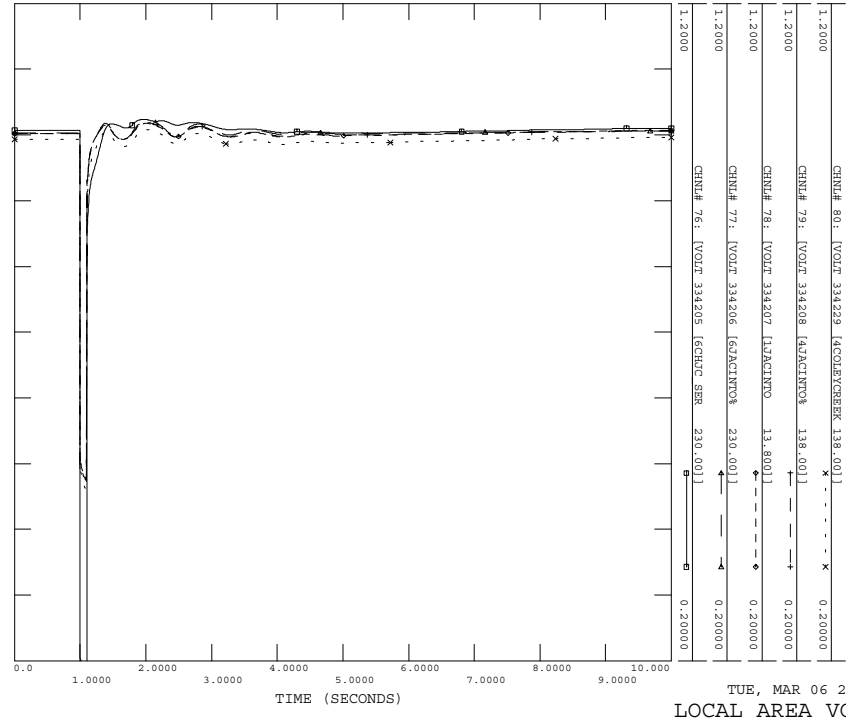
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-4.OUT



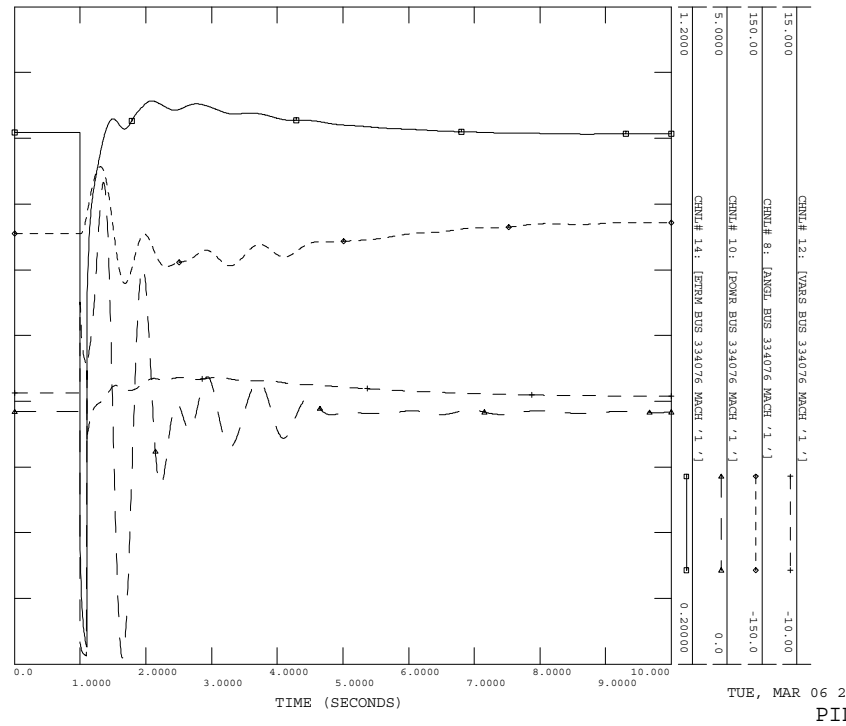
6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-4.OUT



6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-4.OUT



6CY 3PH FAULT LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-4.OUT

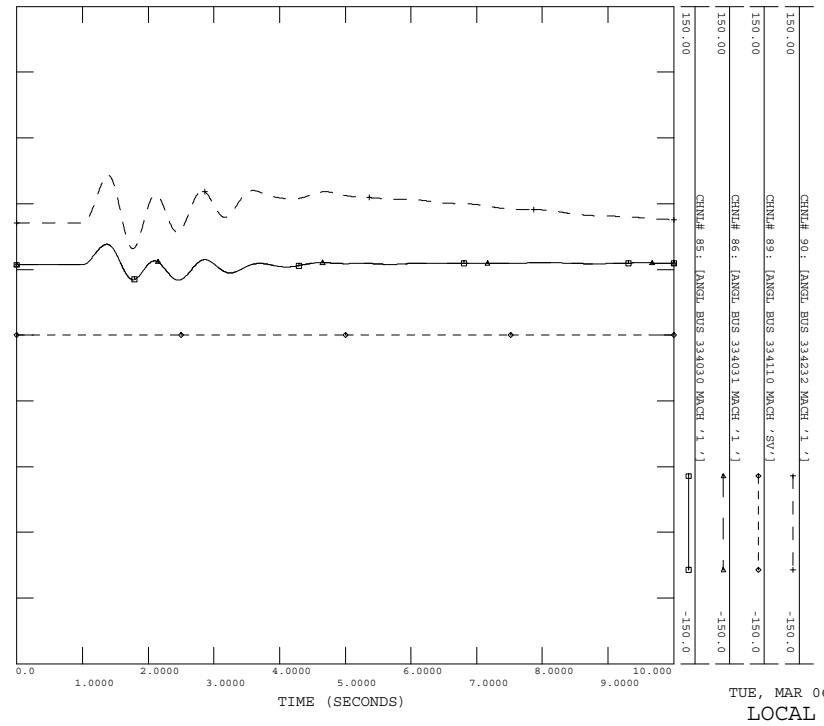


### **C.1.5 FAULT-5**

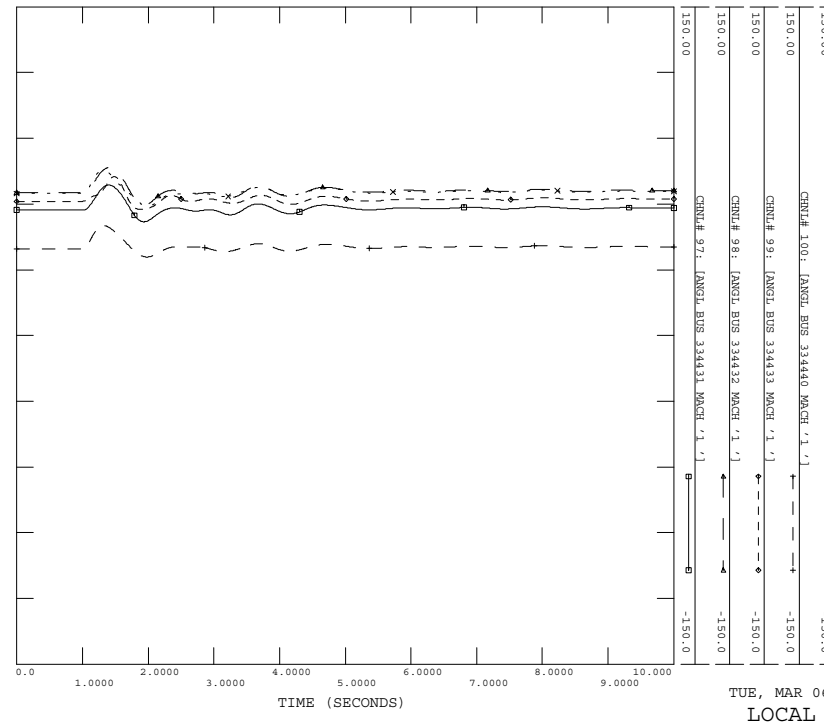
3 phase fault on the Lewis Creek – Rivtrin 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek – Rivtrin 138 kV

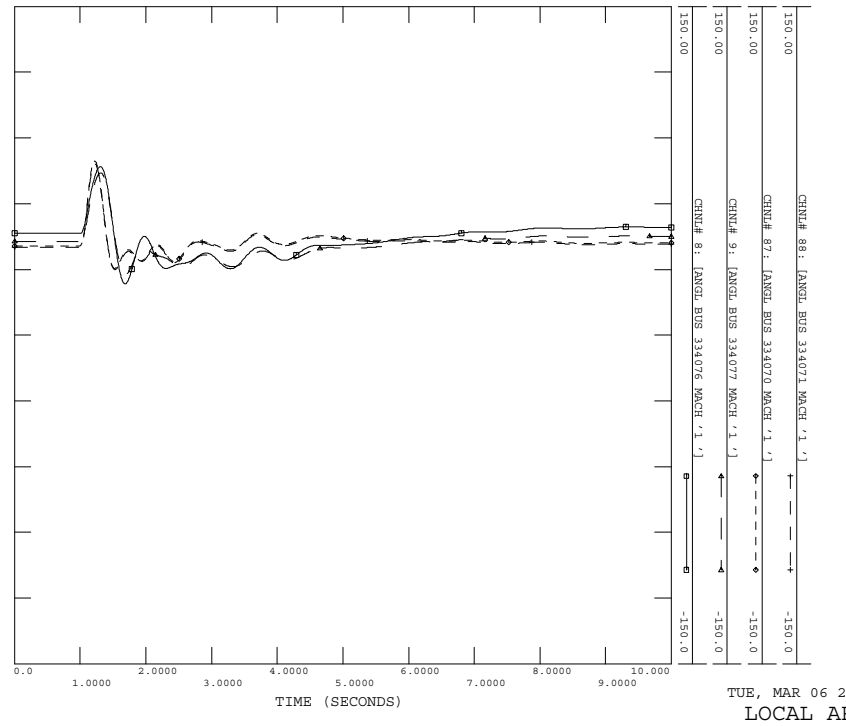
6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
 TRIP LEWIS CREEK - RIVTRIN 138 KV  
 FILE: Fault-5.OUT



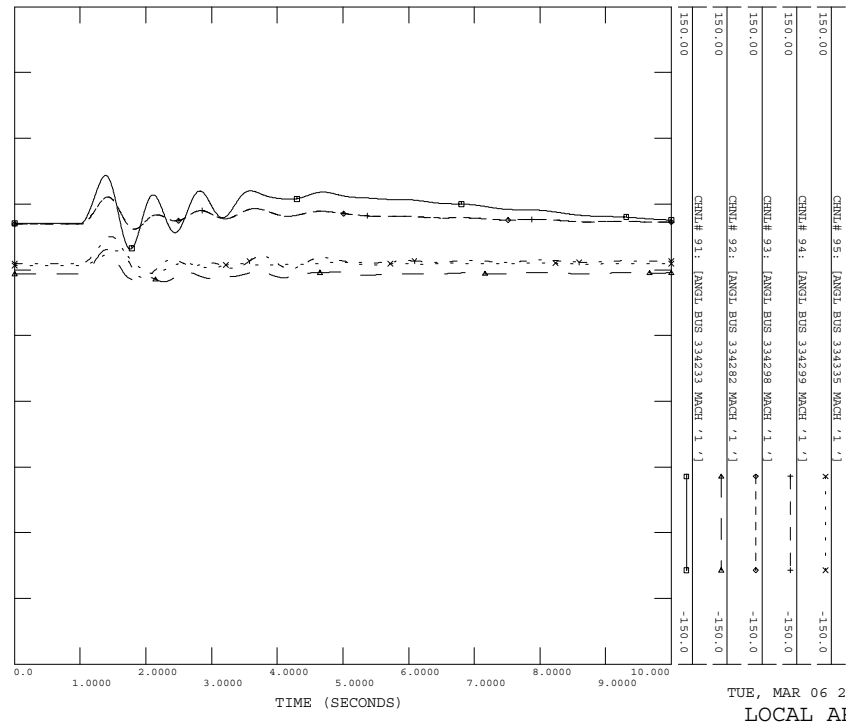
6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
 TRIP LEWIS CREEK - RIVTRIN 138 KV  
 FILE: Fault-5.OUT

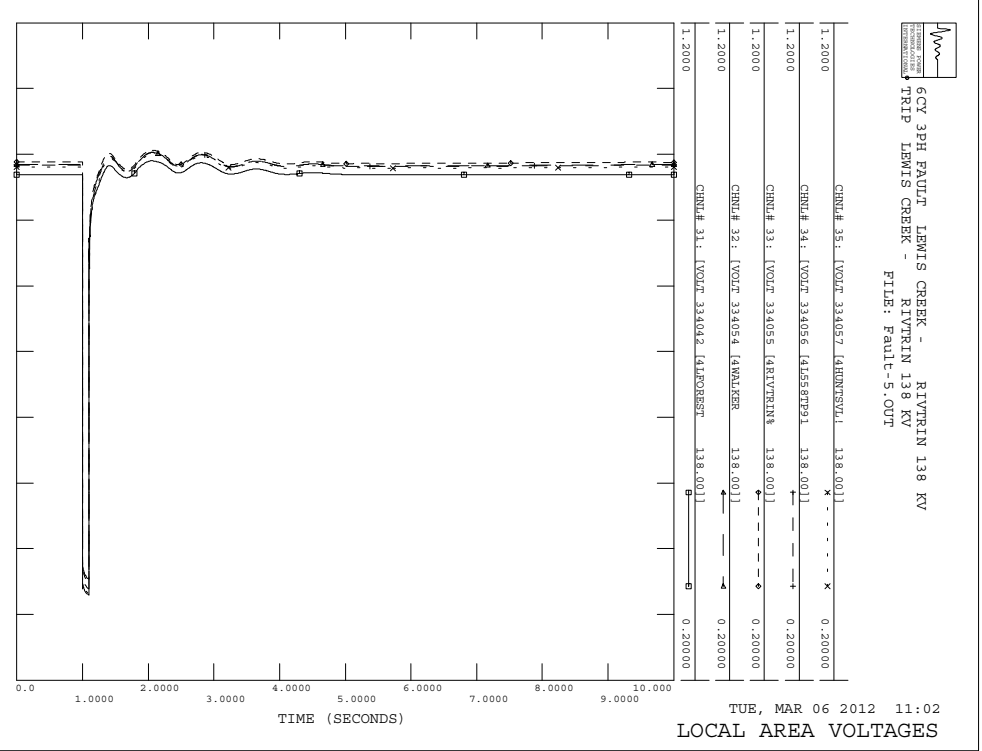
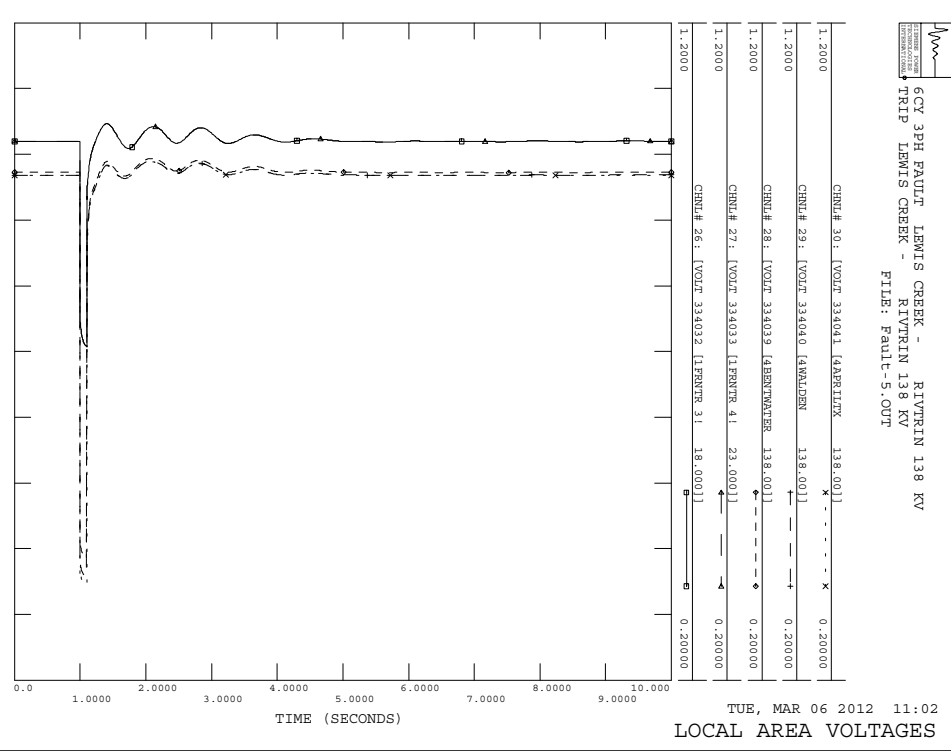
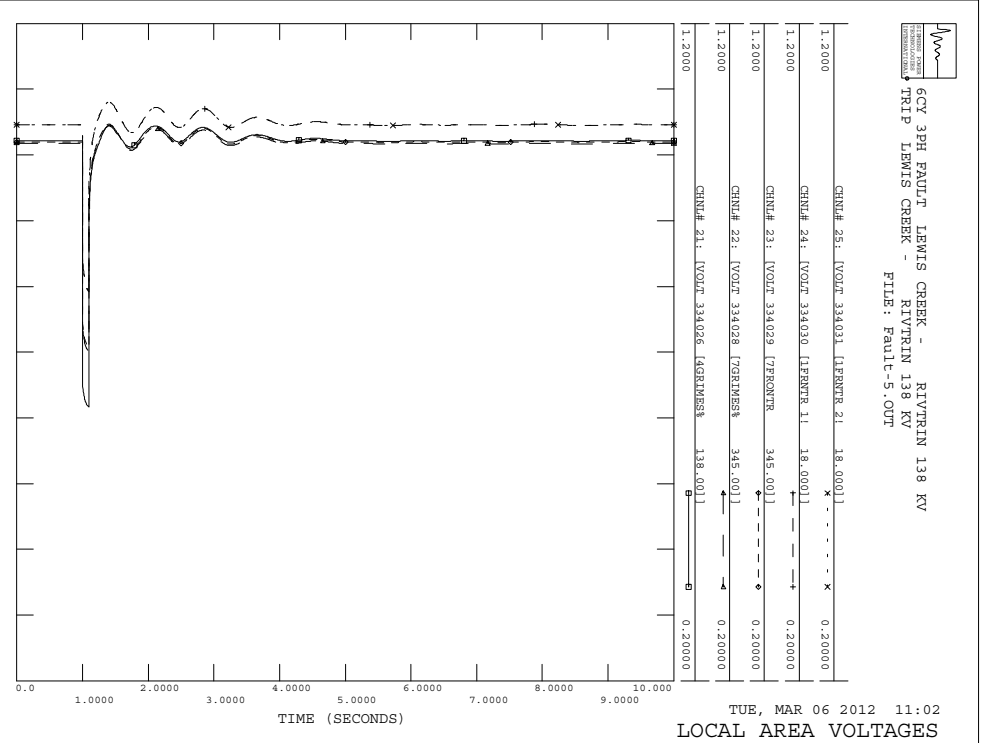
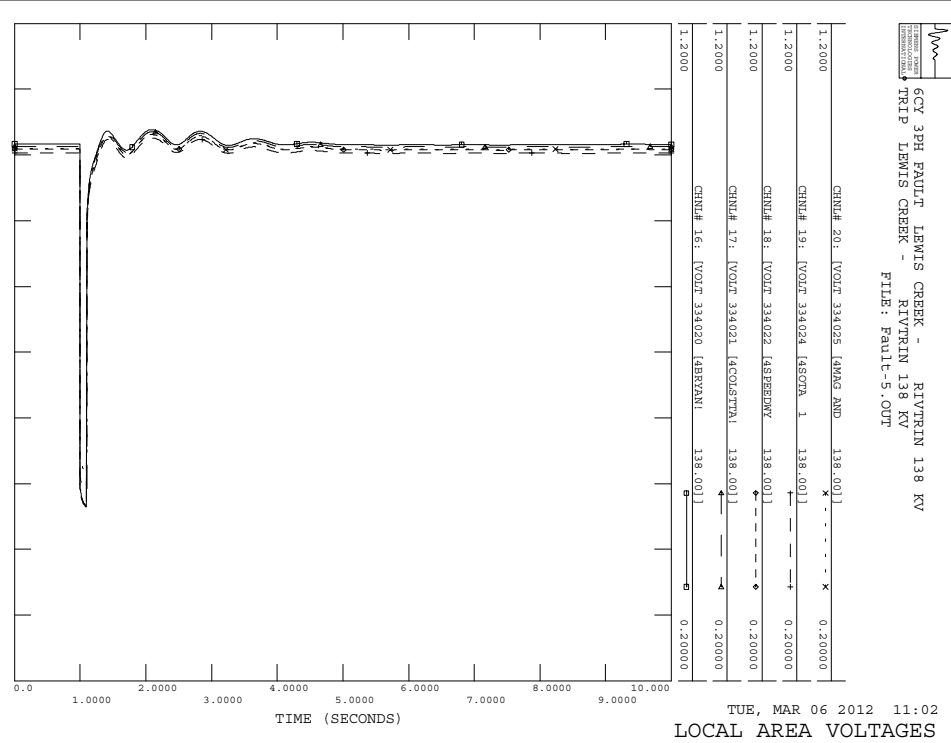


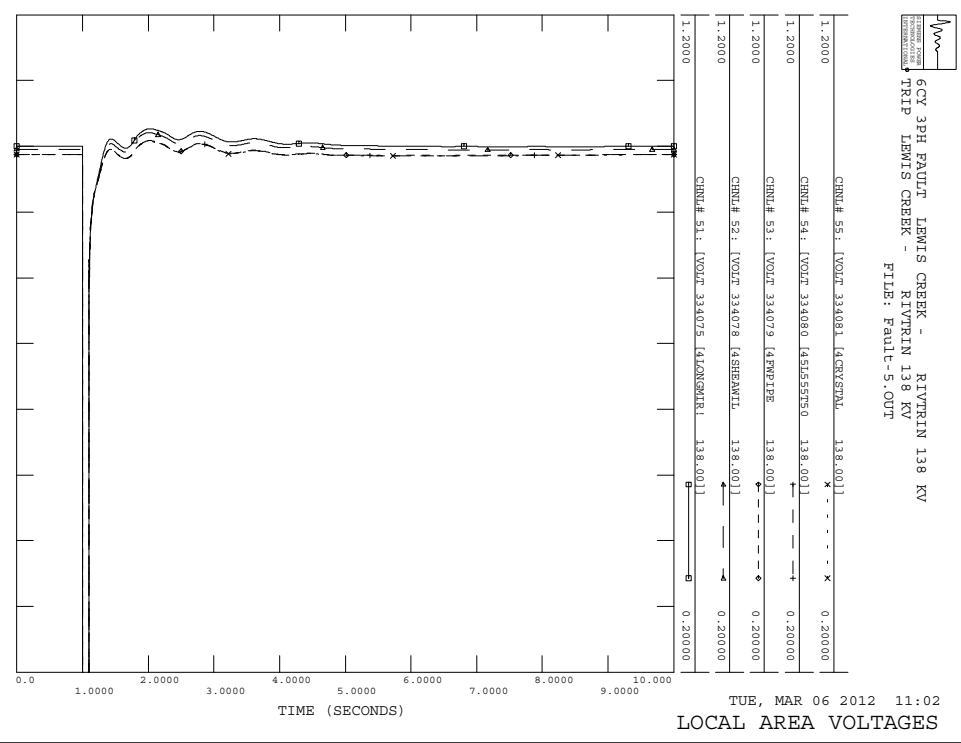
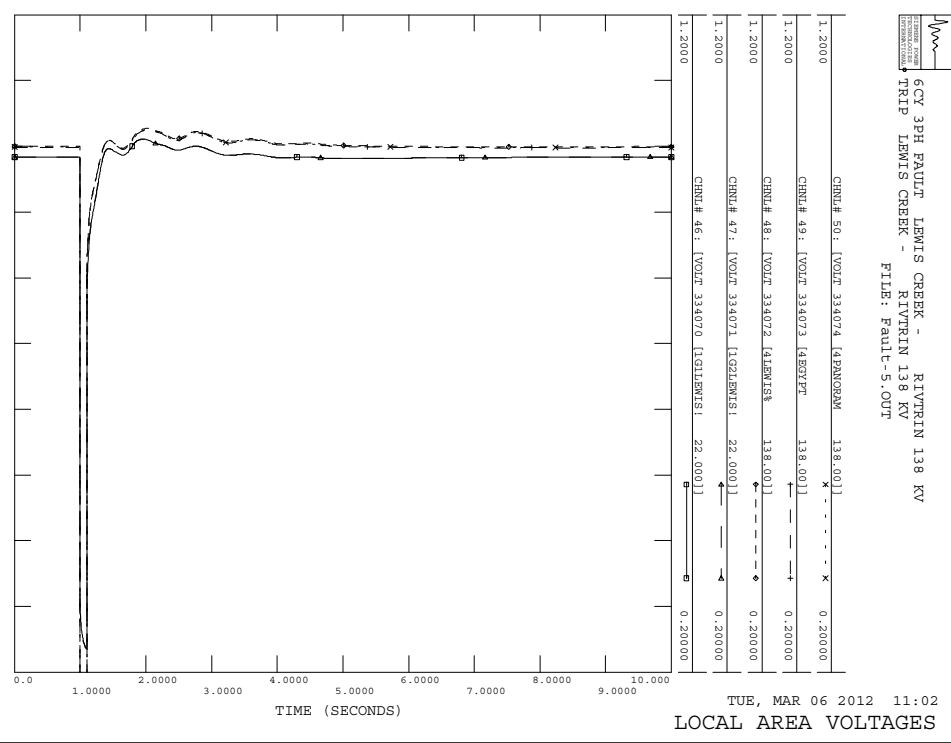
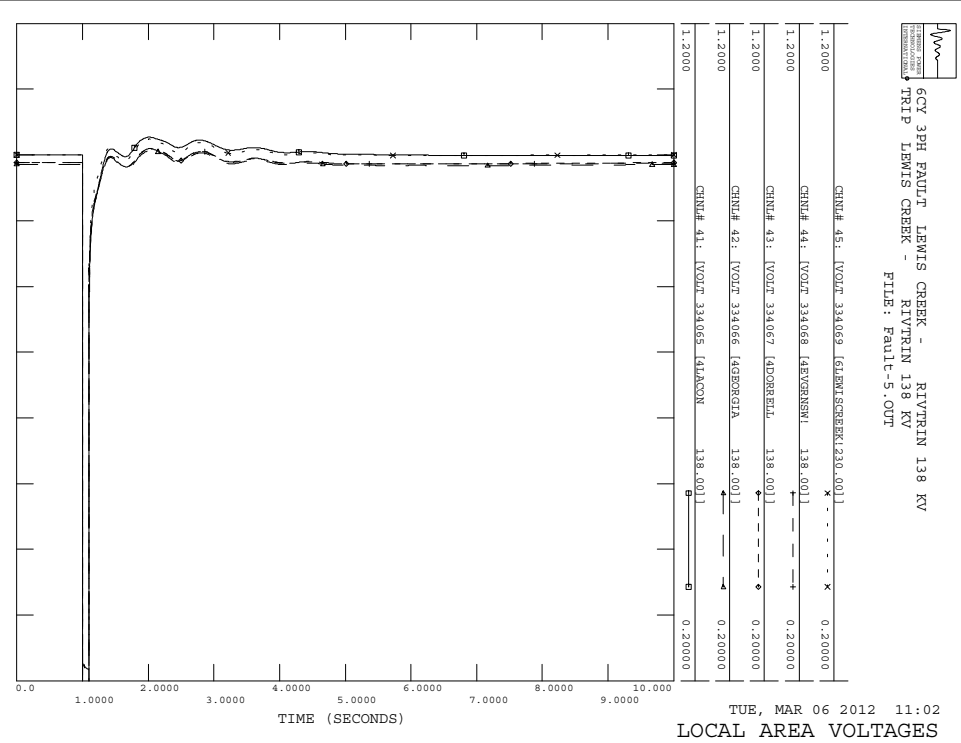
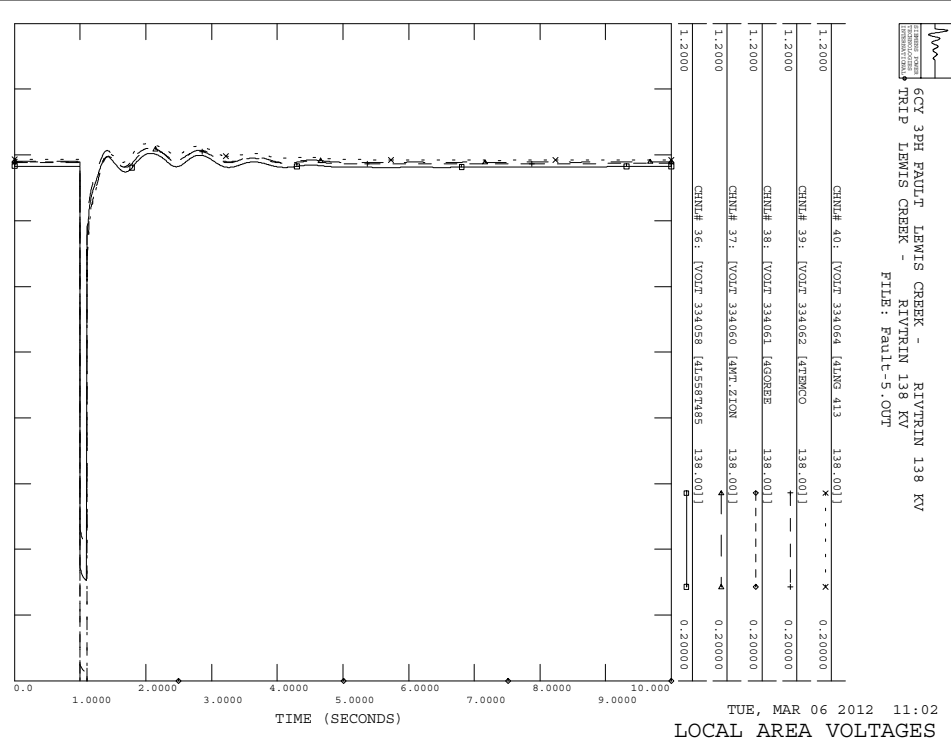
6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
 TRIP LEWIS CREEK - RIVTRIN 138 KV  
 FILE: Fault-5.OUT



6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
 TRIP LEWIS CREEK - RIVTRIN 138 KV  
 FILE: Fault-5.OUT







6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
TRIP LEWIS CREEK - RIVTRIN 138 KV  
FILE: FAULT-5.OUT

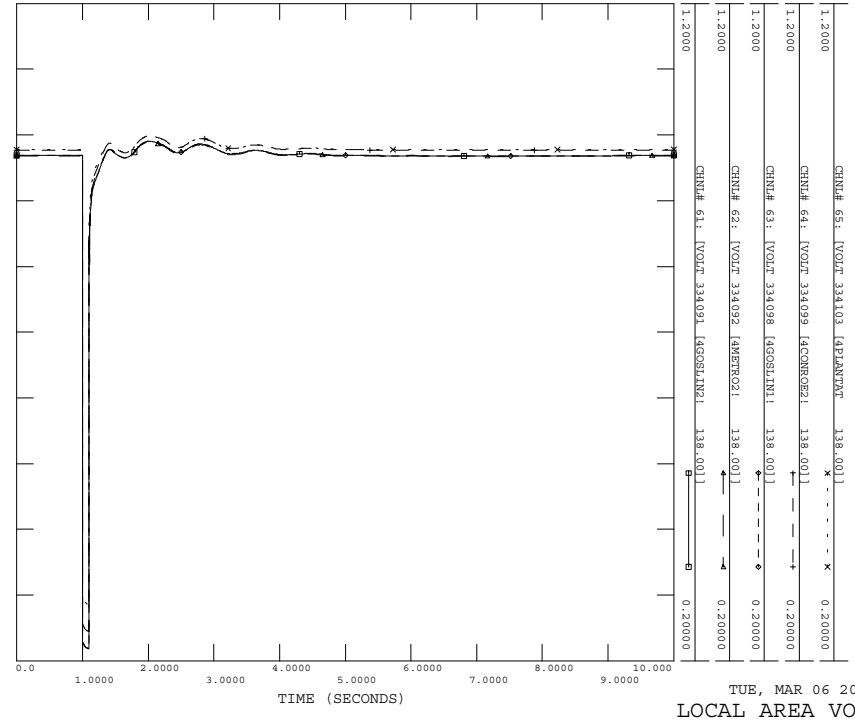
6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
TRIP LEWIS CREEK - RIVTRIN 138 KV  
FILE: FAULT-5.OUT

6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
TRIP LEWIS CREEK - RIVTRIN 138 KV  
FILE: FAULT-5.OUT

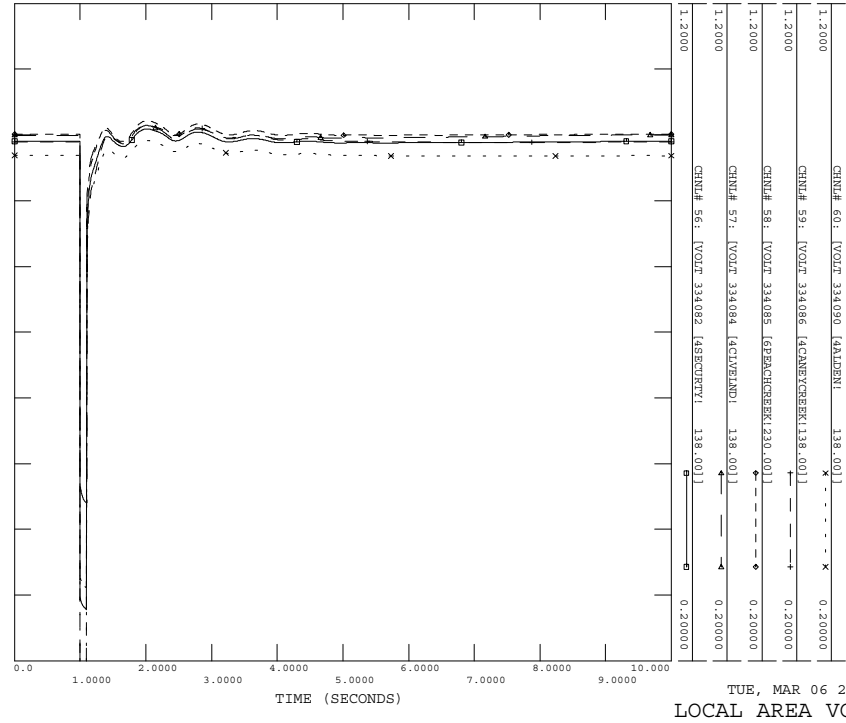
6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
TRIP LEWIS CREEK - RIVTRIN 138 KV  
FILE: FAULT-5.OUT



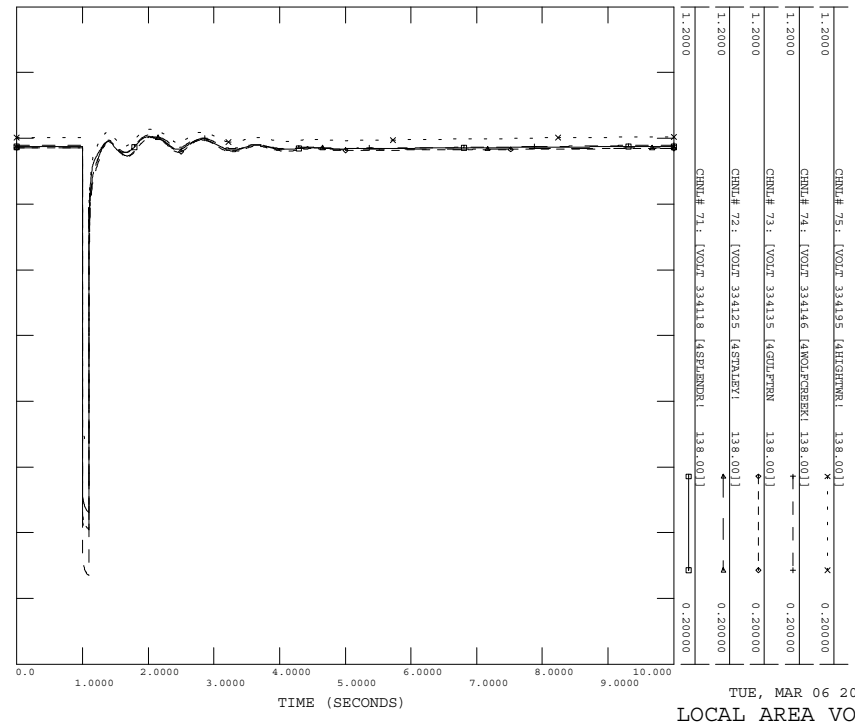
6CY 3PH FAULT LEWIS CREEK - RIVYRIN 138 KV  
 TRIP LEWIS CREEK - RIVYRIN 138 KV  
 FILE: FAULT-5.OUT



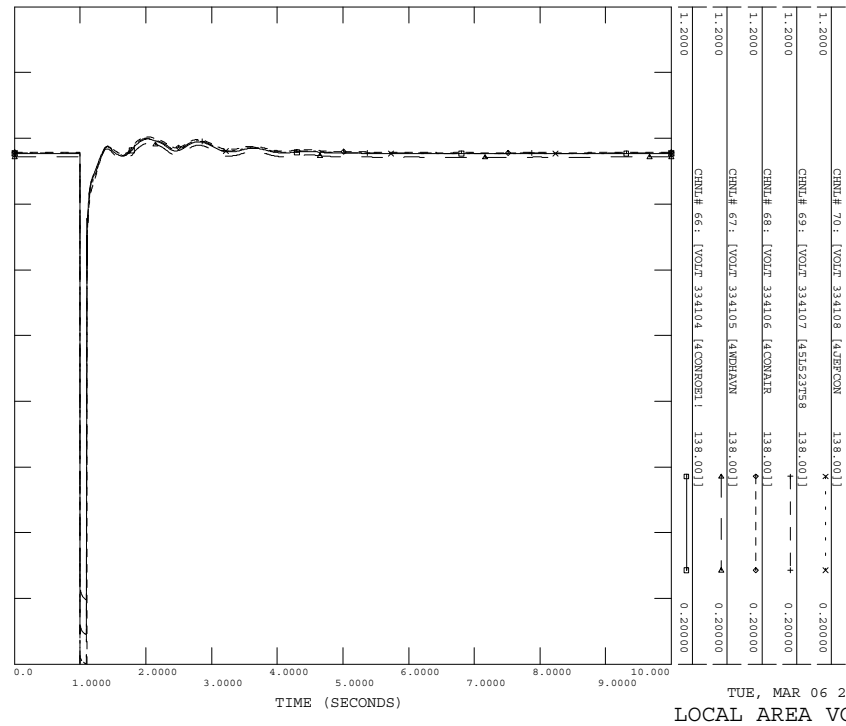
6CY 3PH FAULT LEWIS CREEK - RIVYRIN 138 KV  
 TRIP LEWIS CREEK - RIVYRIN 138 KV  
 FILE: FAULT-5.OUT



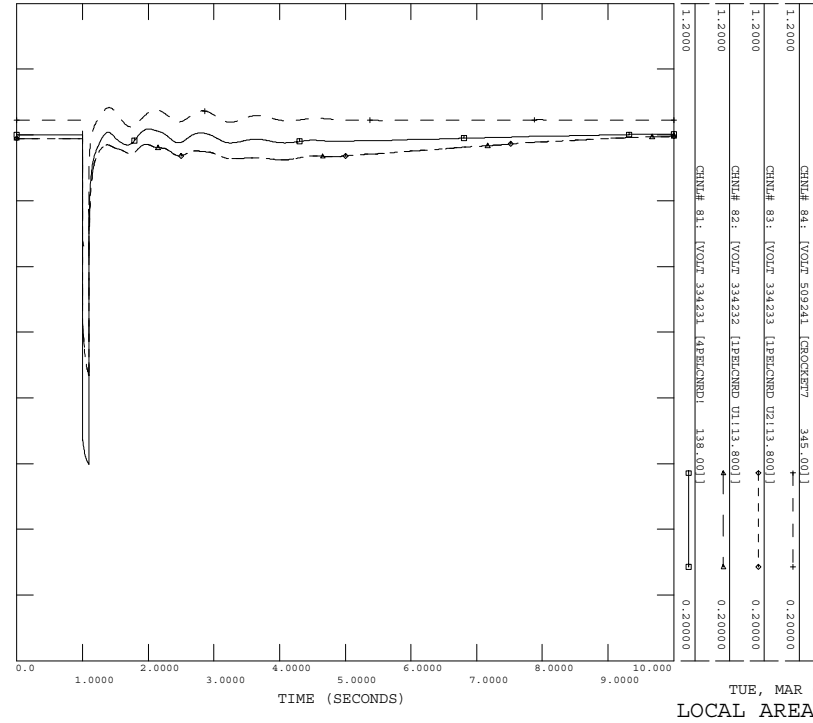
6CY 3PH FAULT LEWIS CREEK - RIVYRIN 138 KV  
 TRIP LEWIS CREEK - RIVYRIN 138 KV  
 FILE: FAULT-5.OUT



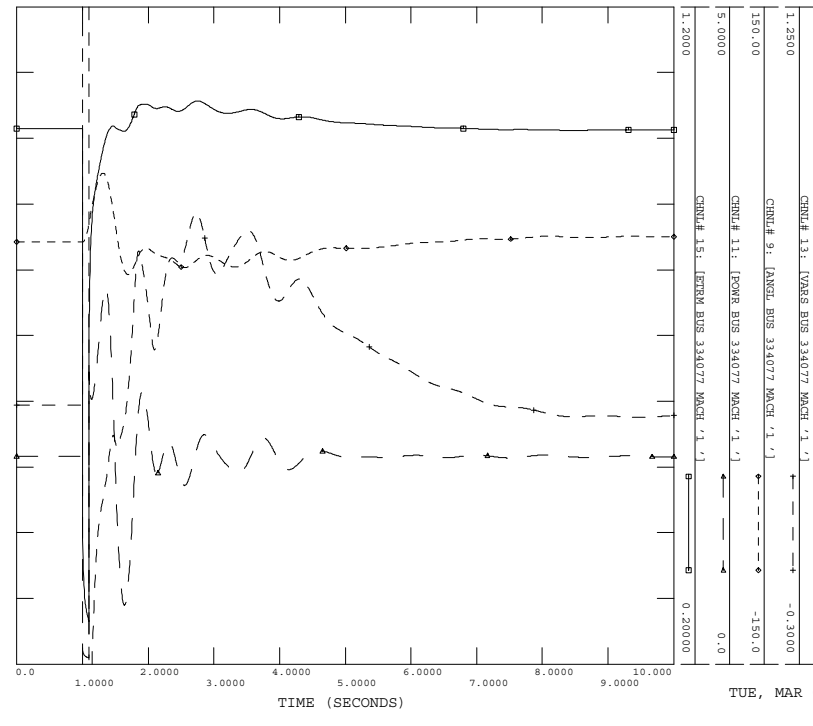
6CY 3PH FAULT LEWIS CREEK - RIVYRIN 138 KV  
 TRIP LEWIS CREEK - RIVYRIN 138 KV  
 FILE: FAULT-5.OUT



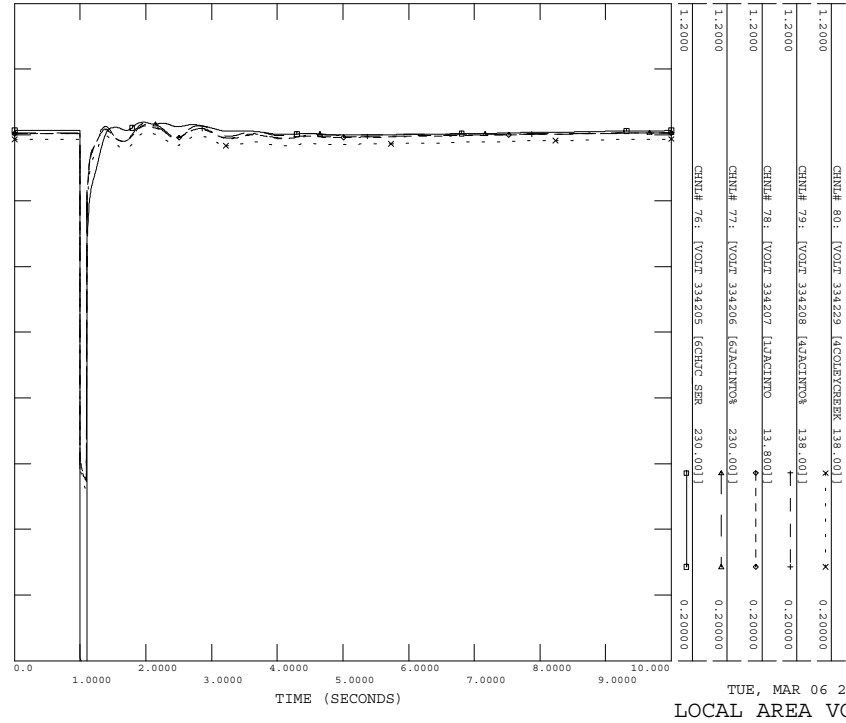
6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
 TRIP LEWIS CREEK - RIVTRIN 138 KV  
 FILE: Fault-5.OUT



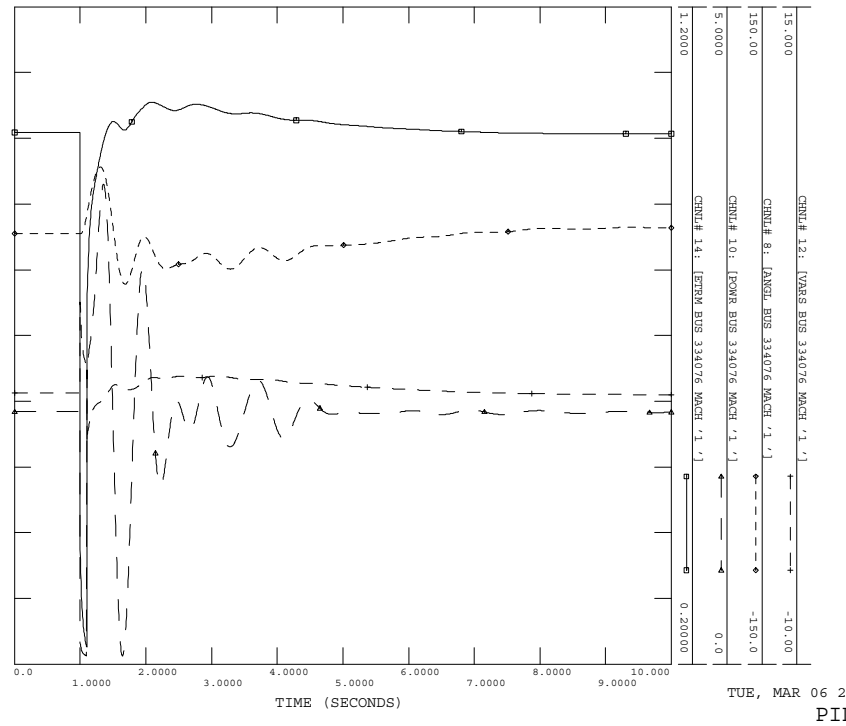
6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
 TRIP LEWIS CREEK - RIVTRIN 138 KV  
 FILE: Fault-5.OUT



6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
 TRIP LEWIS CREEK - RIVTRIN 138 KV  
 FILE: Fault-5.OUT



6CY 3PH FAULT LEWIS CREEK - RIVTRIN 138 KV  
 TRIP LEWIS CREEK - RIVTRIN 138 KV  
 FILE: Fault-5.OUT

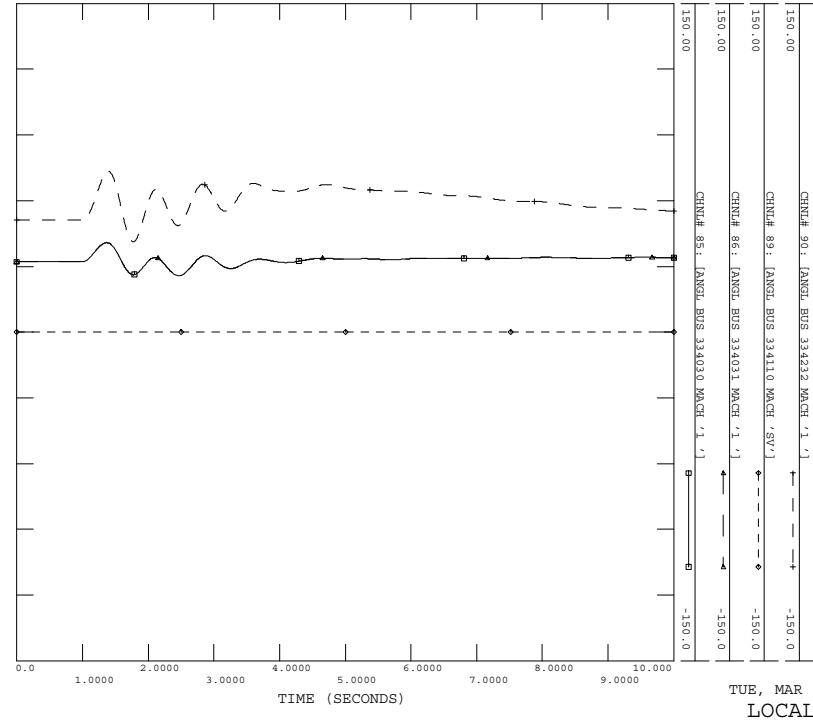


### **C.1.6 FAULT-6**

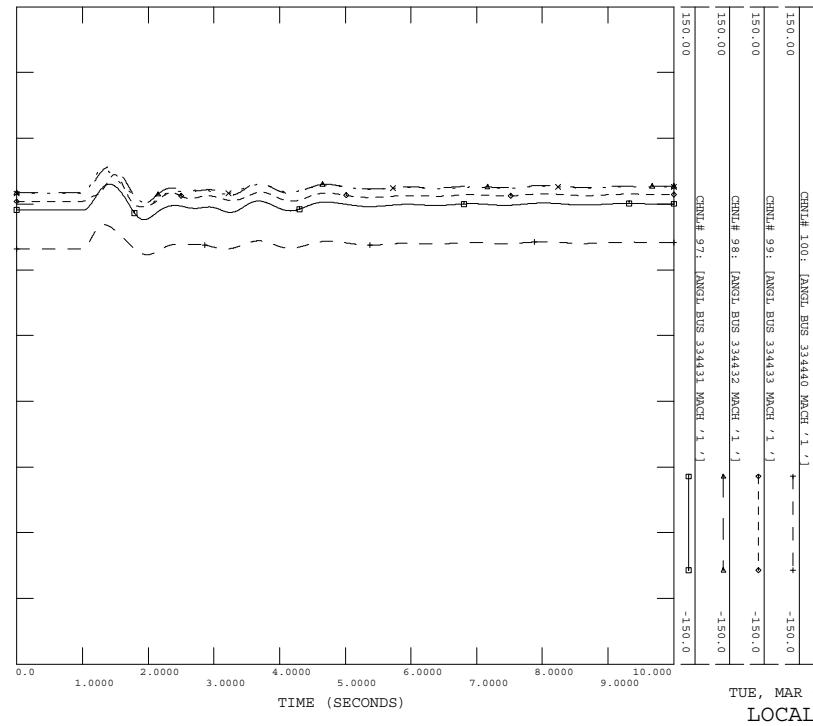
3 phase fault on the Lewis Creek – Huntsville 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek – Huntsville 138 kV

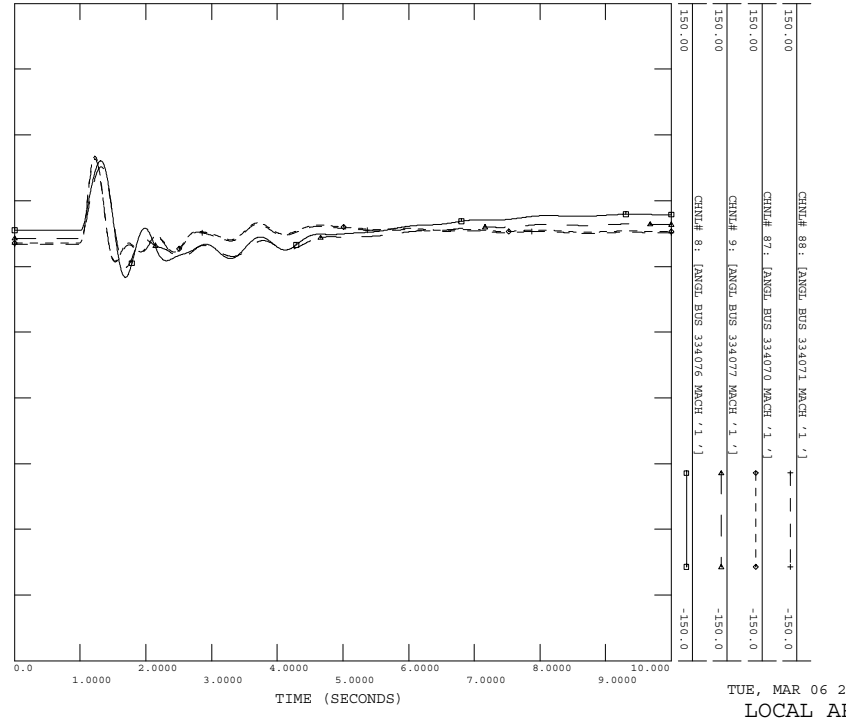
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-6.OUT



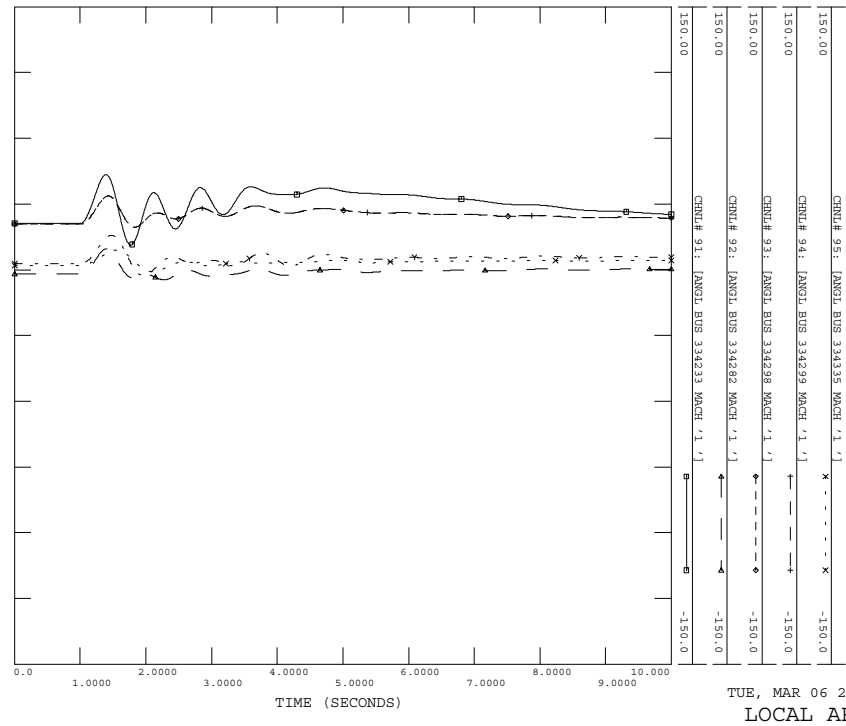
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-6.OUT



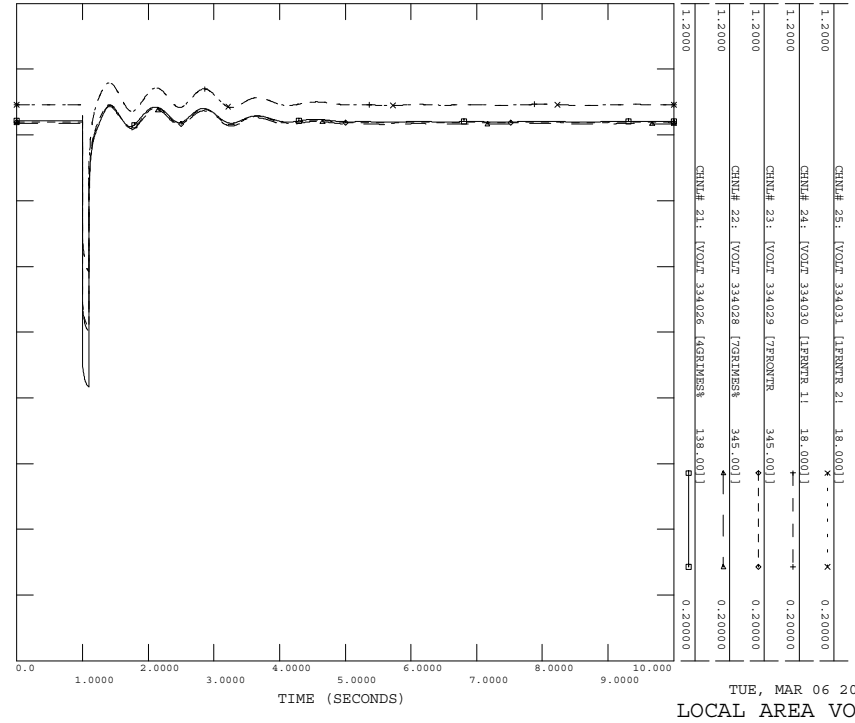
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-6.OUT



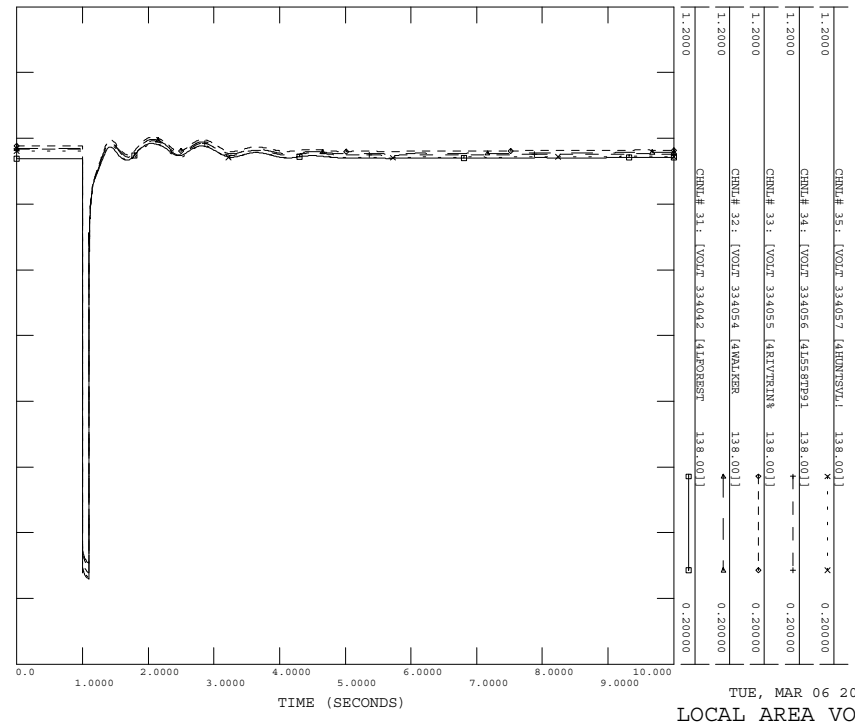
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-6.OUT



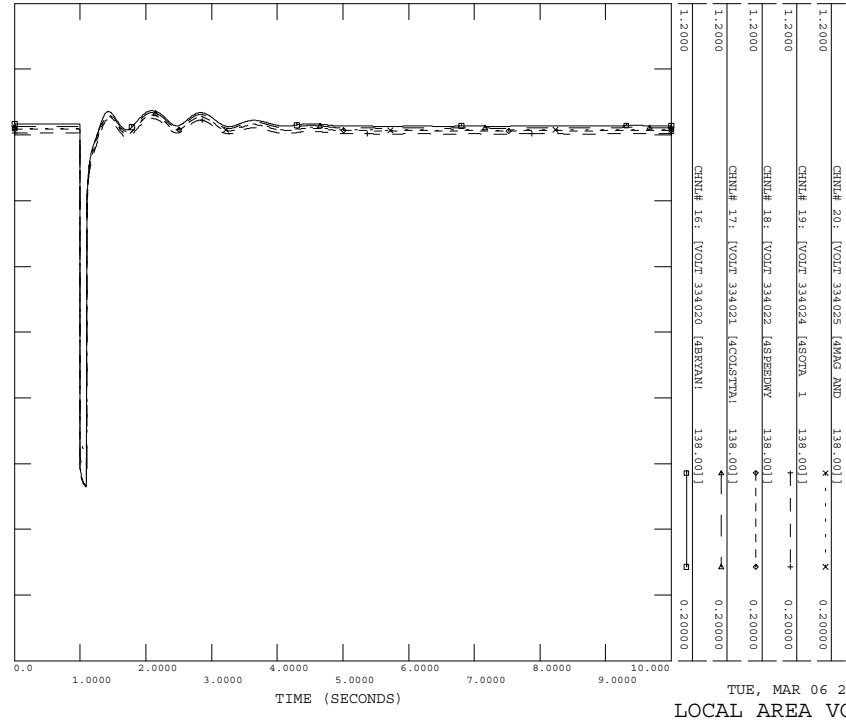
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



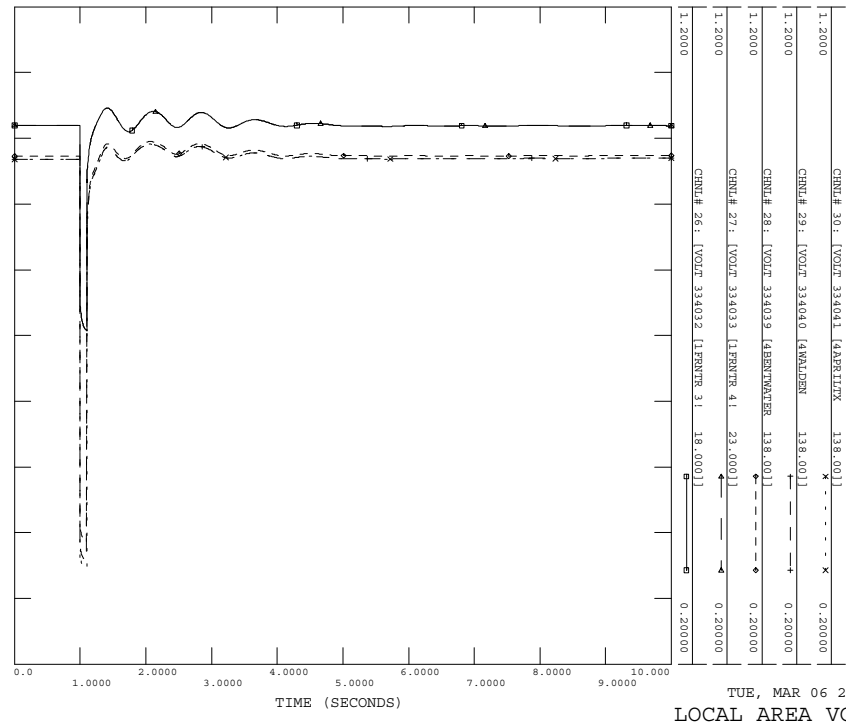
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



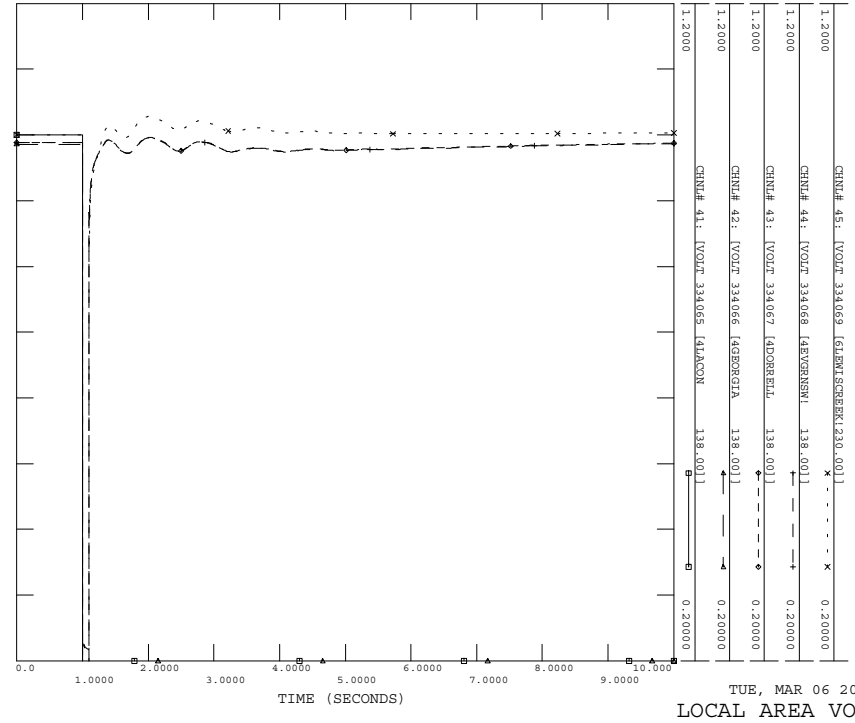
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



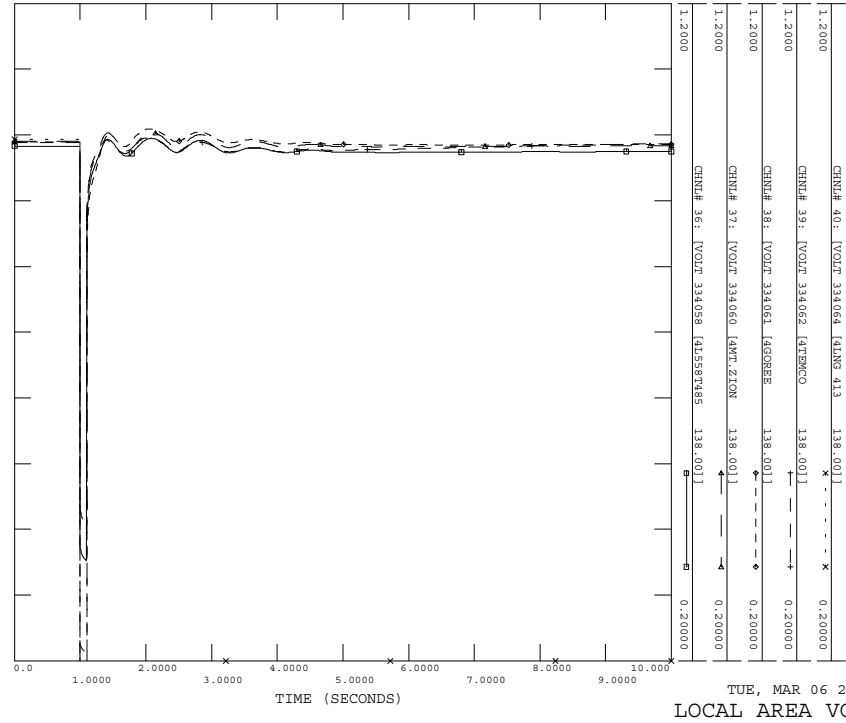
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



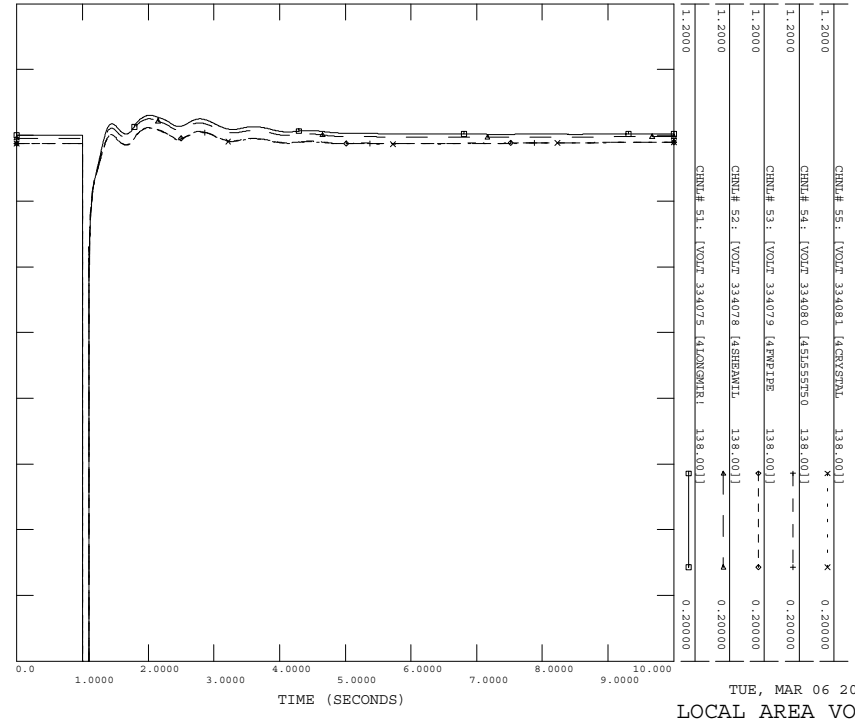
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



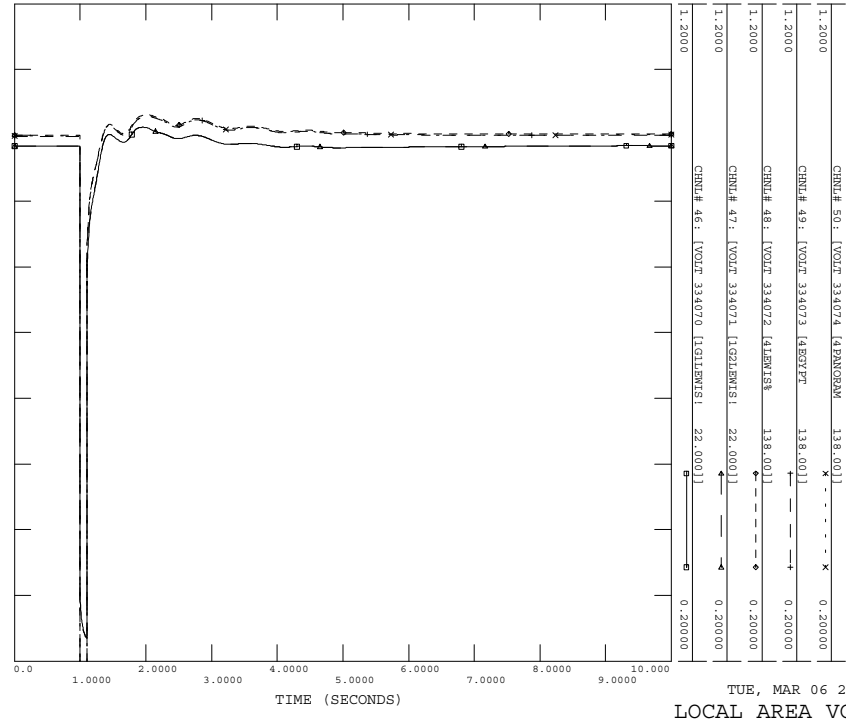
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



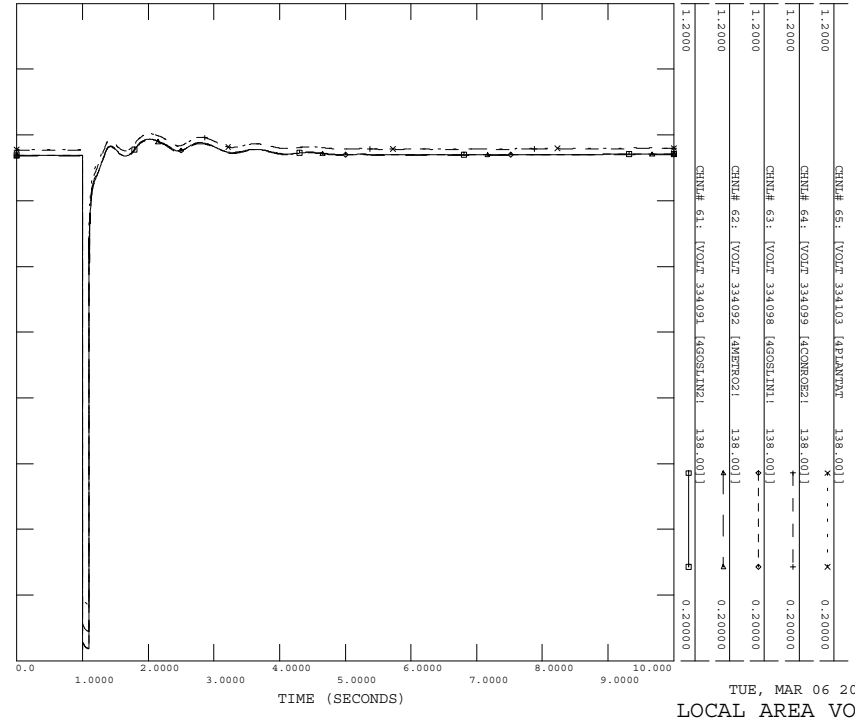
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



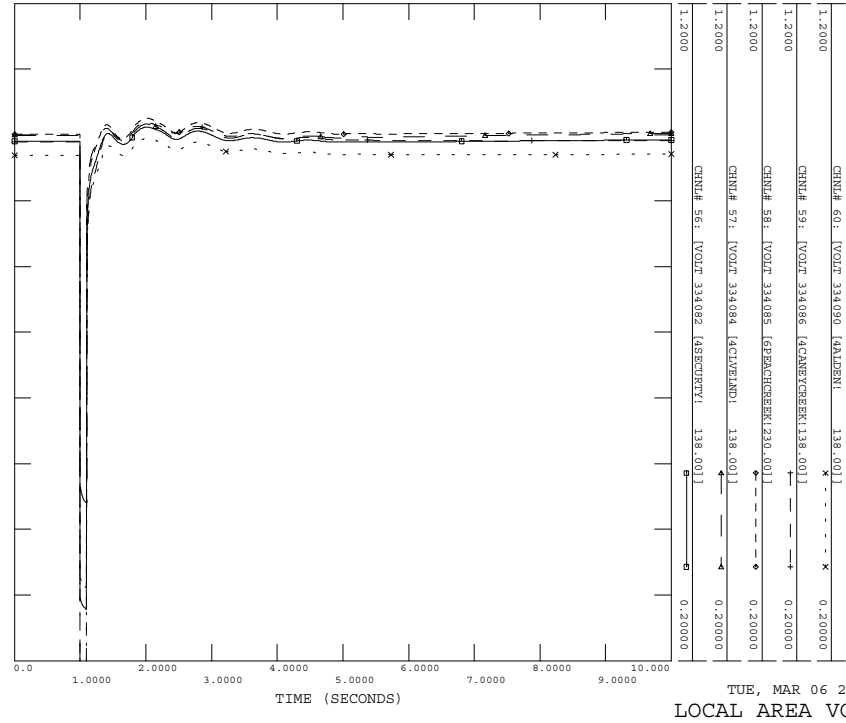
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



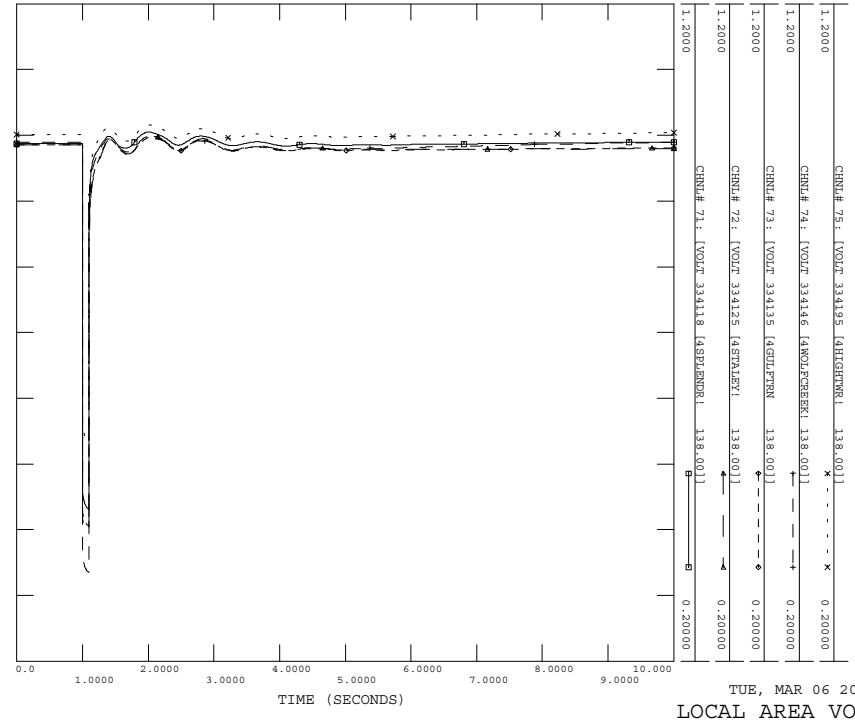
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



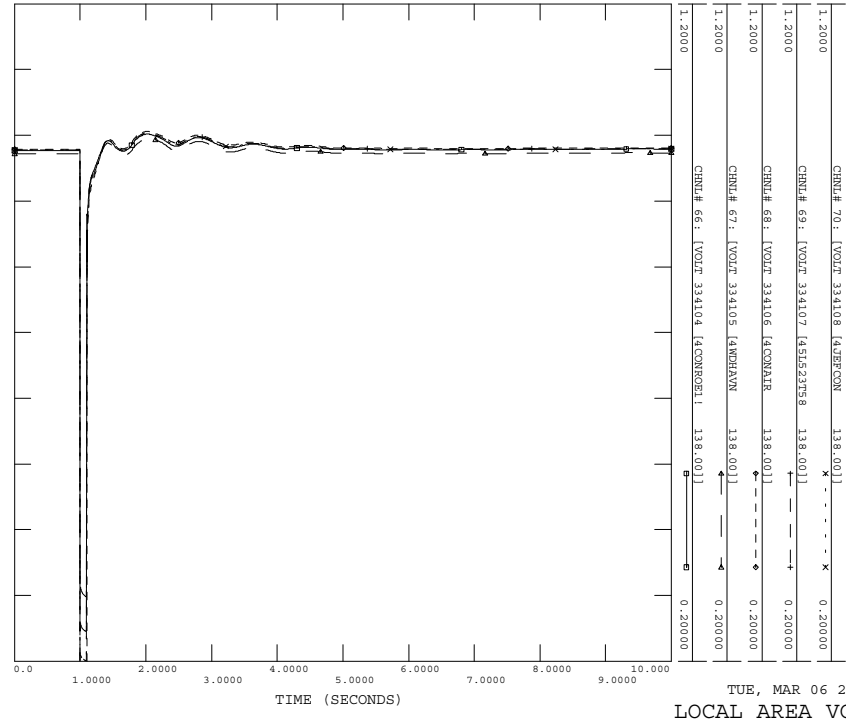
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



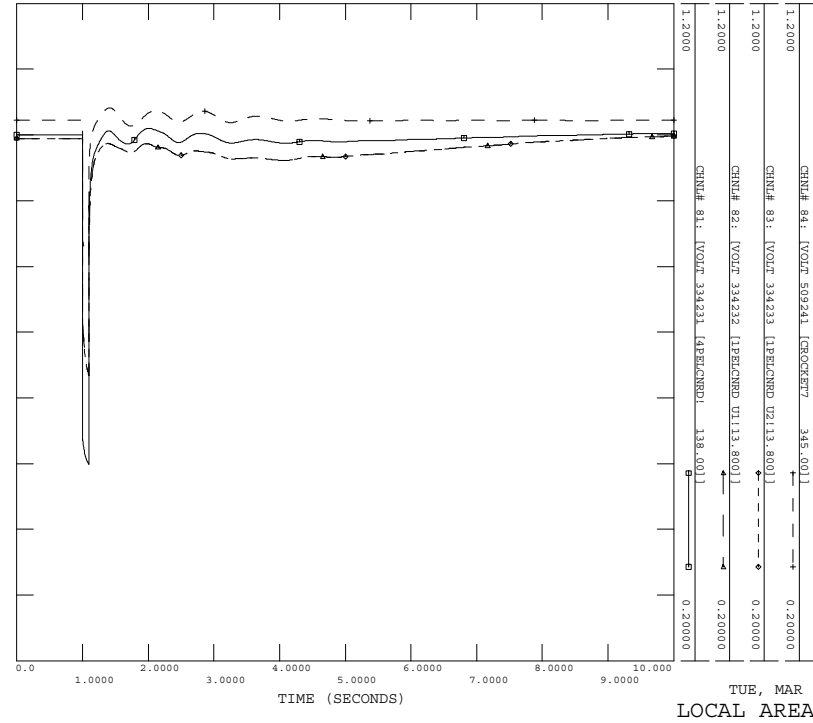
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



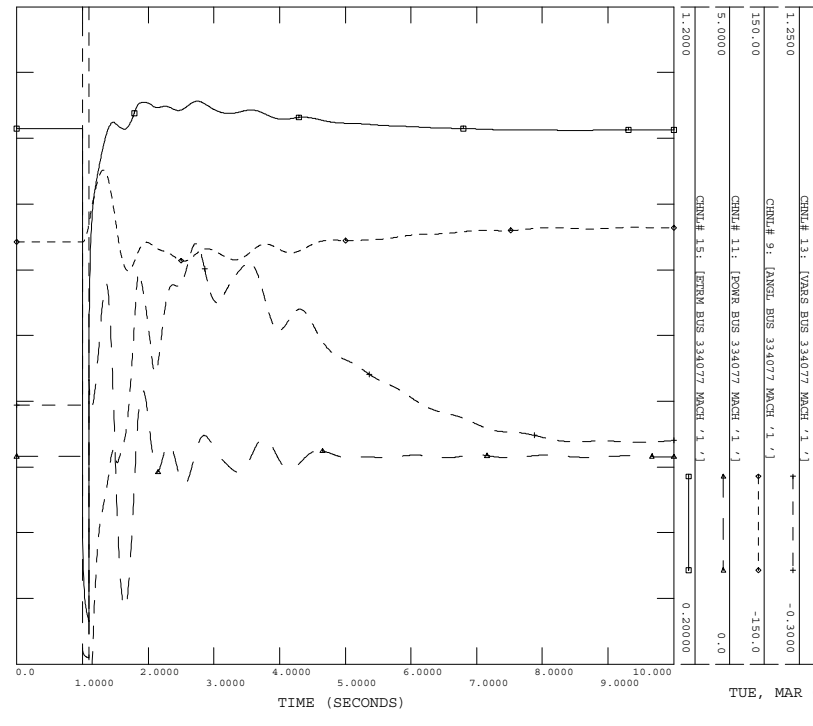
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: FAULT-6.OUT



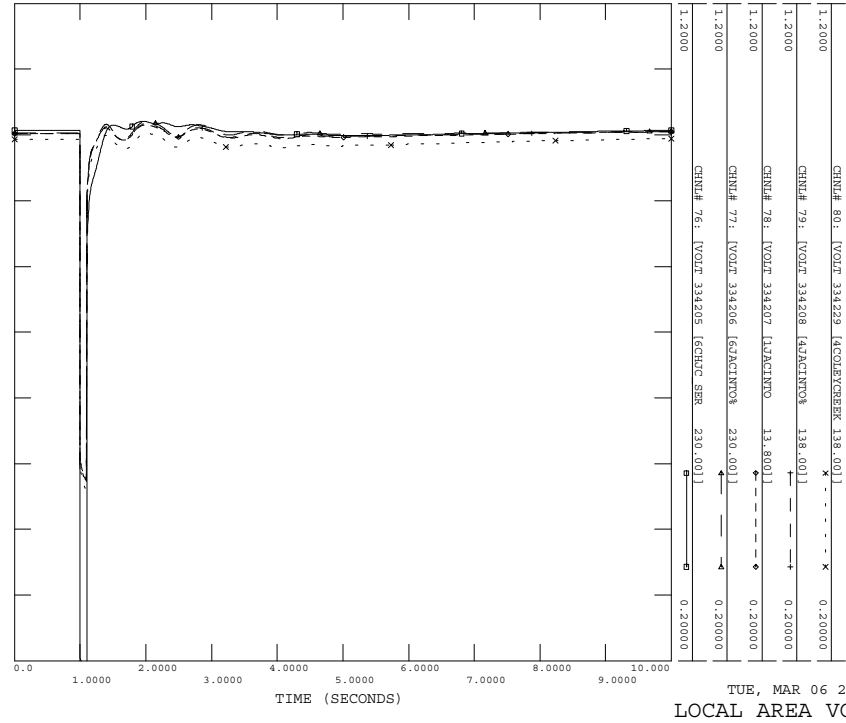
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-6.OUT



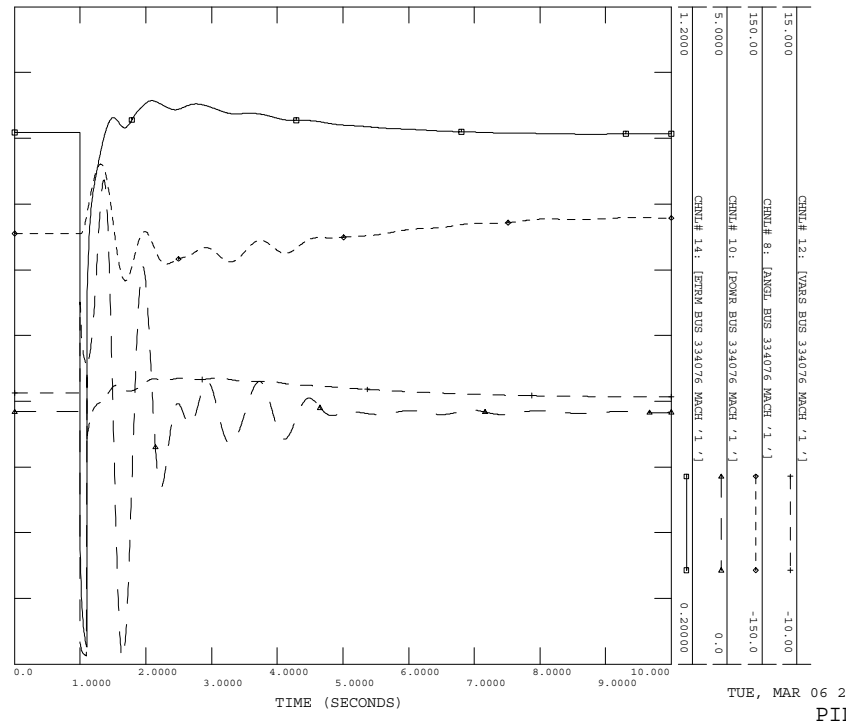
6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-6.OUT



6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-6.OUT



6CY 3PH FAULT LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-6.OUT



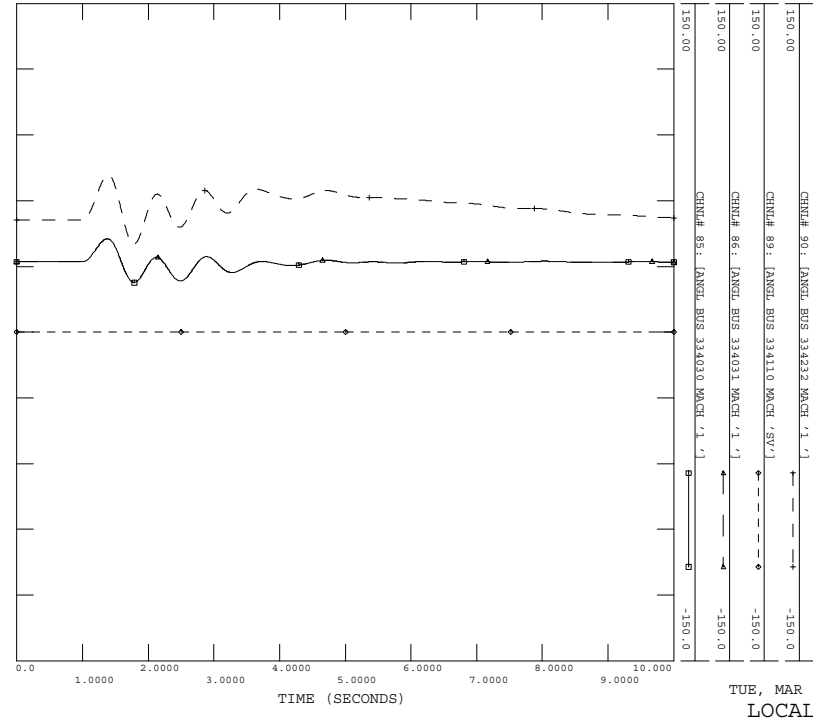


### **C.1.7 FAULT-7**

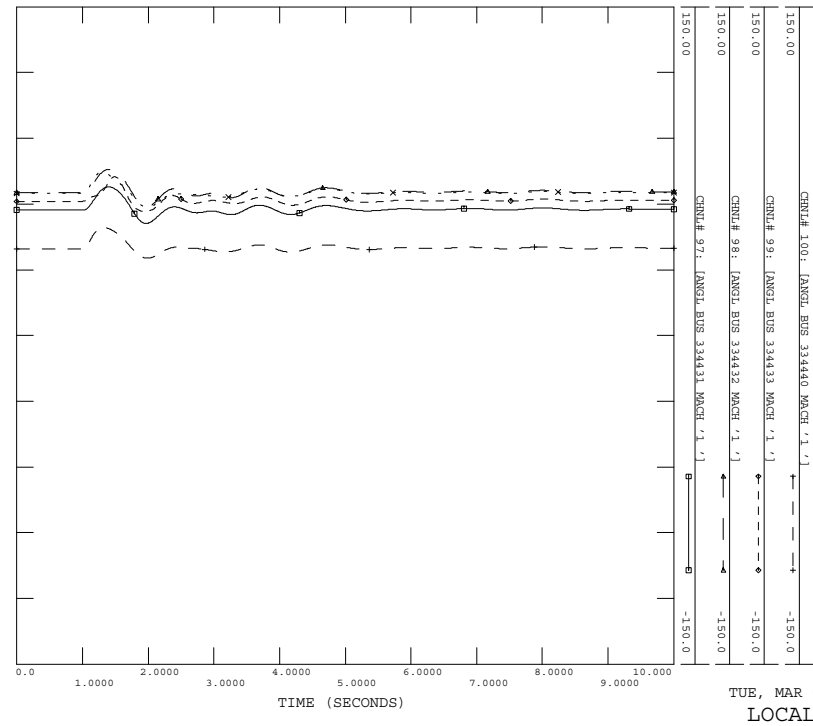
3 phase fault on the Lewis Creek 230/138 kV Auto trafo

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek 230/138 kV Auto trafo

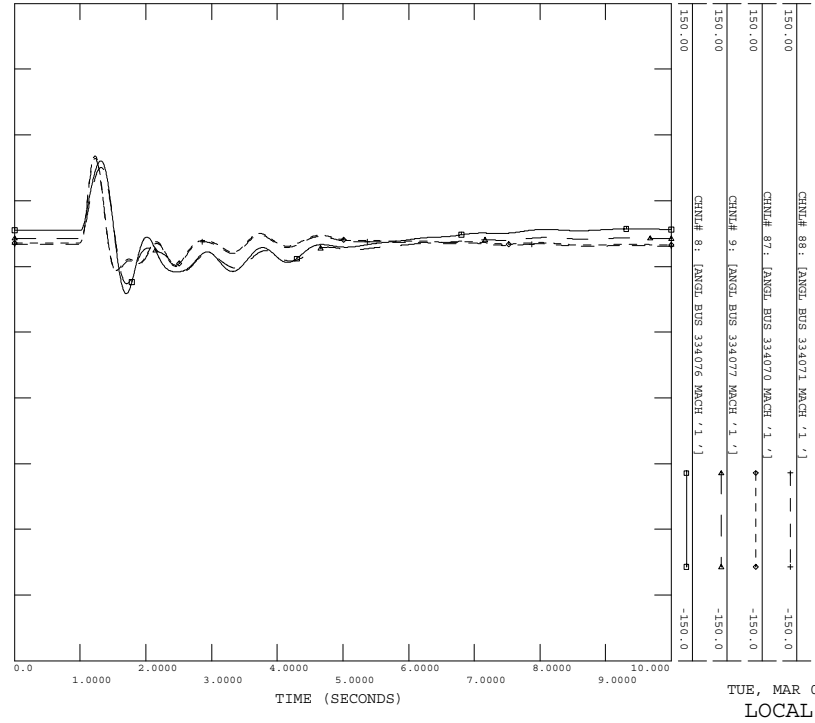
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: Fault-7.OUT



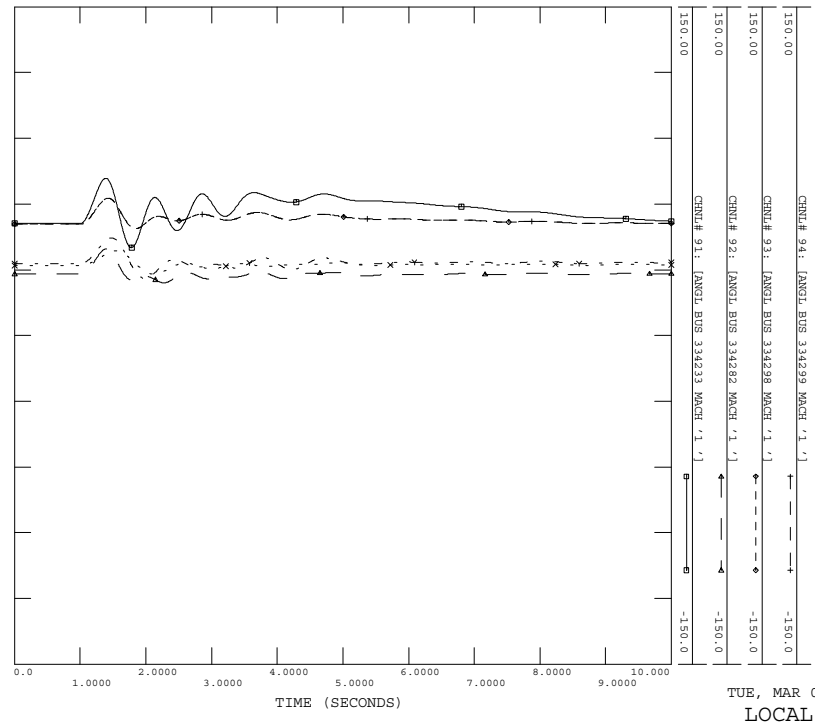
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: Fault-7.OUT



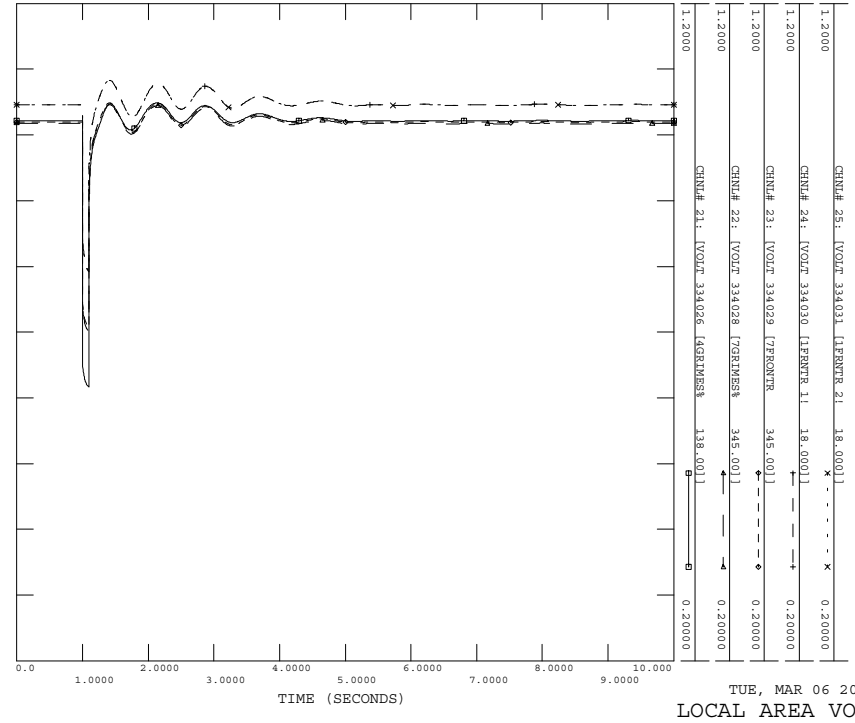
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: Fault-7.OUT



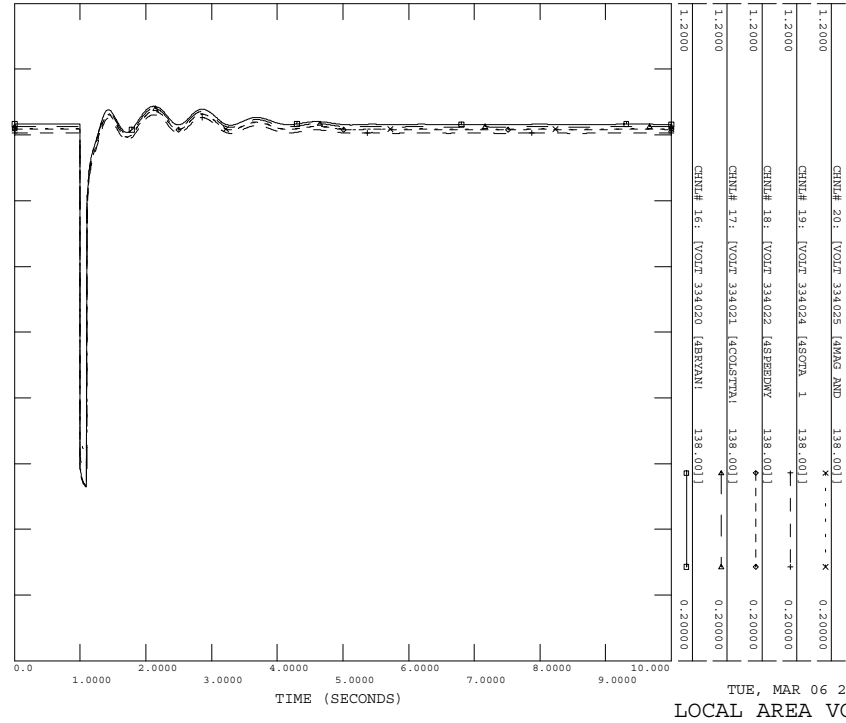
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: Fault-7.OUT



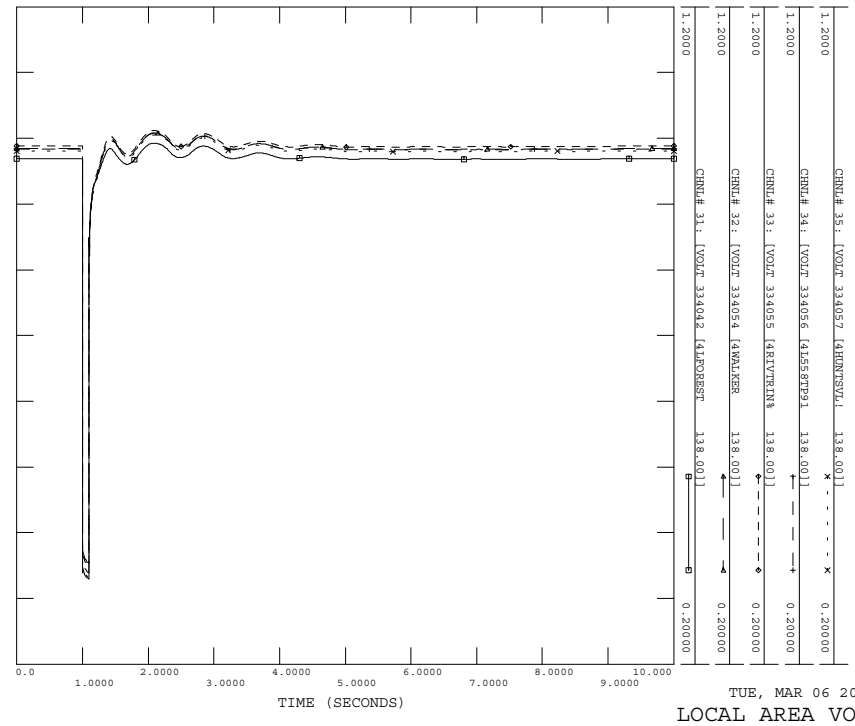
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



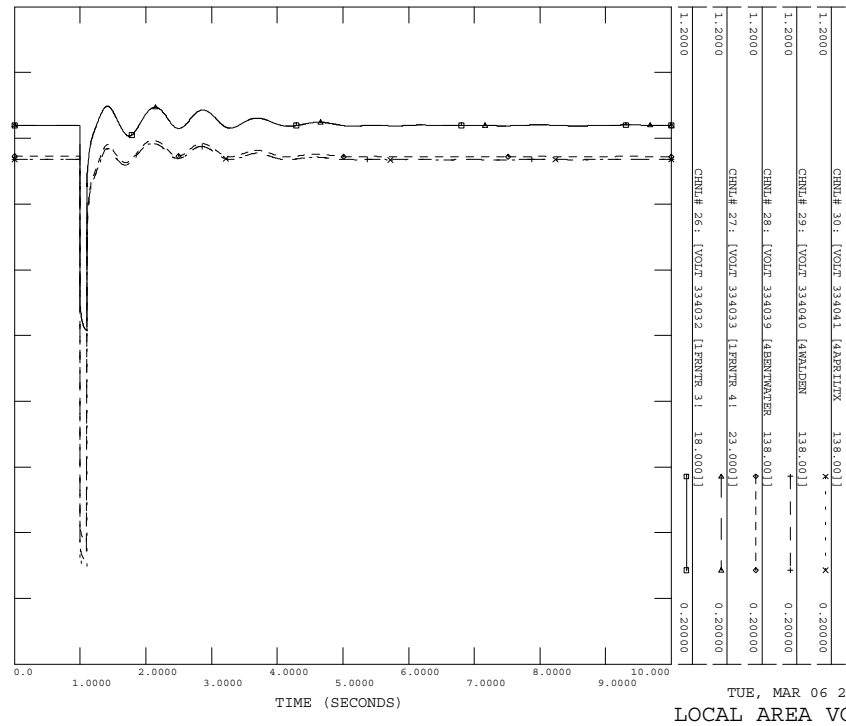
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



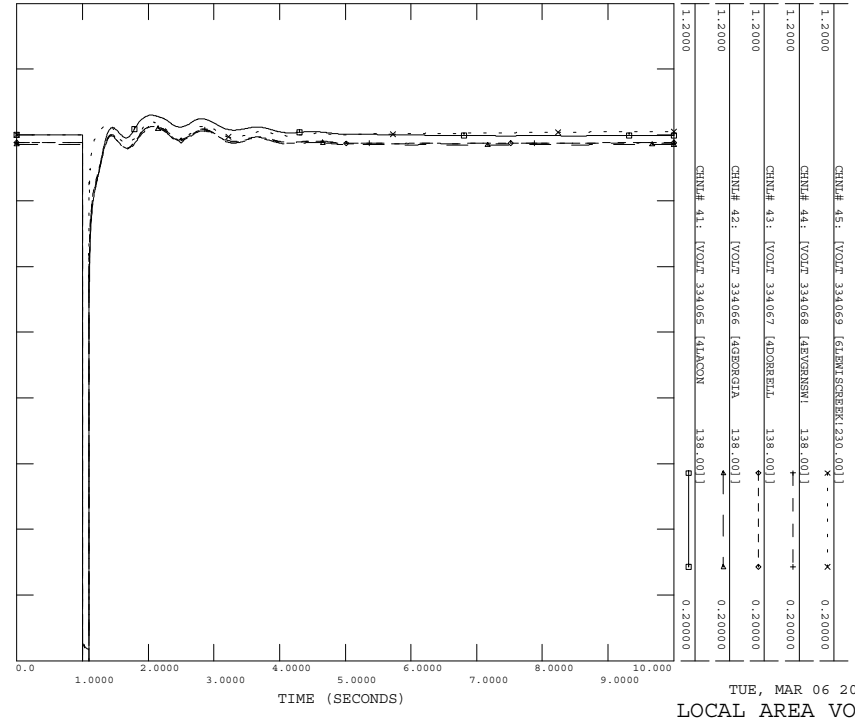
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



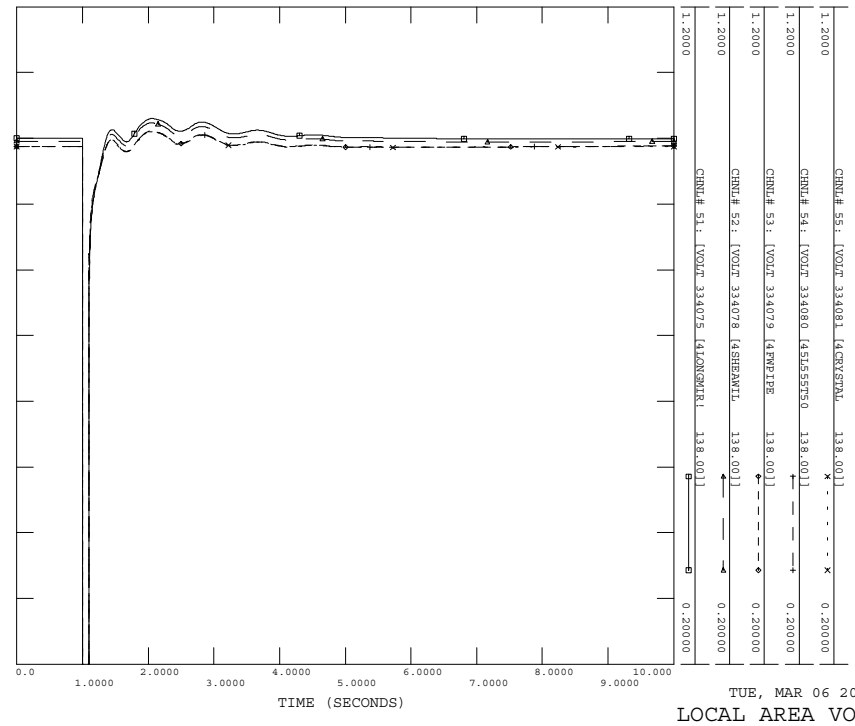
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



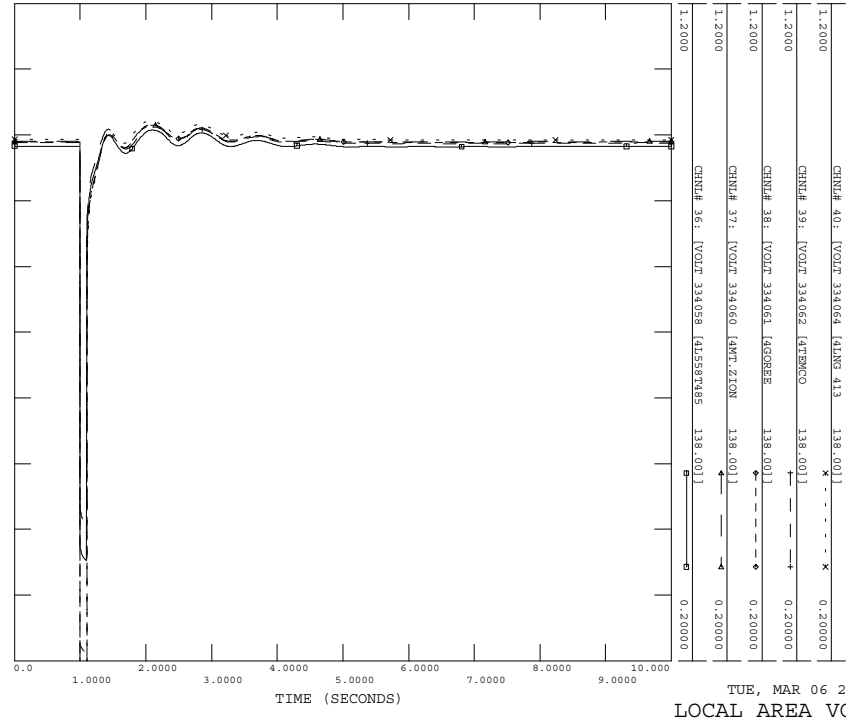
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



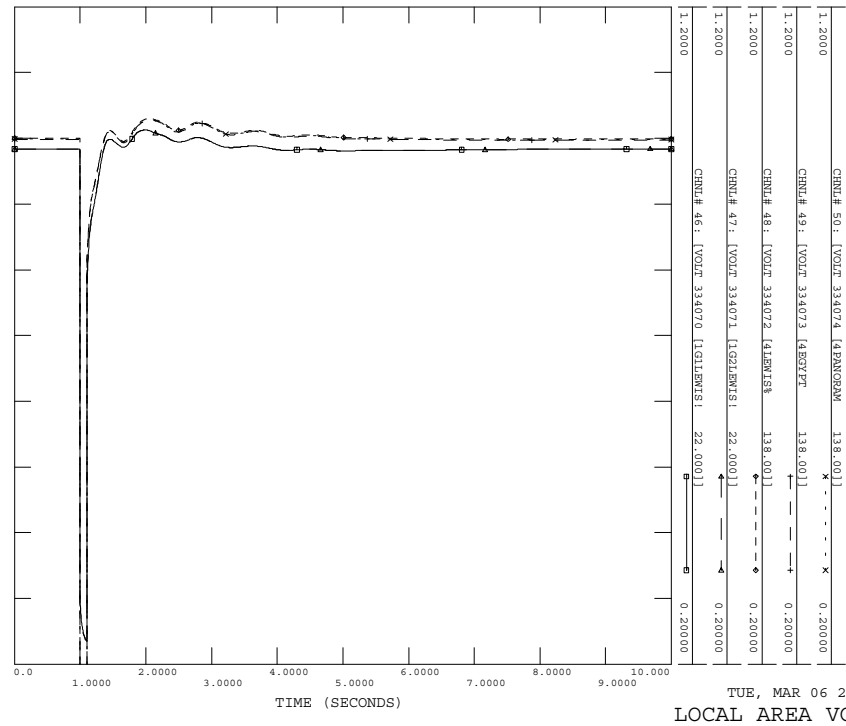
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



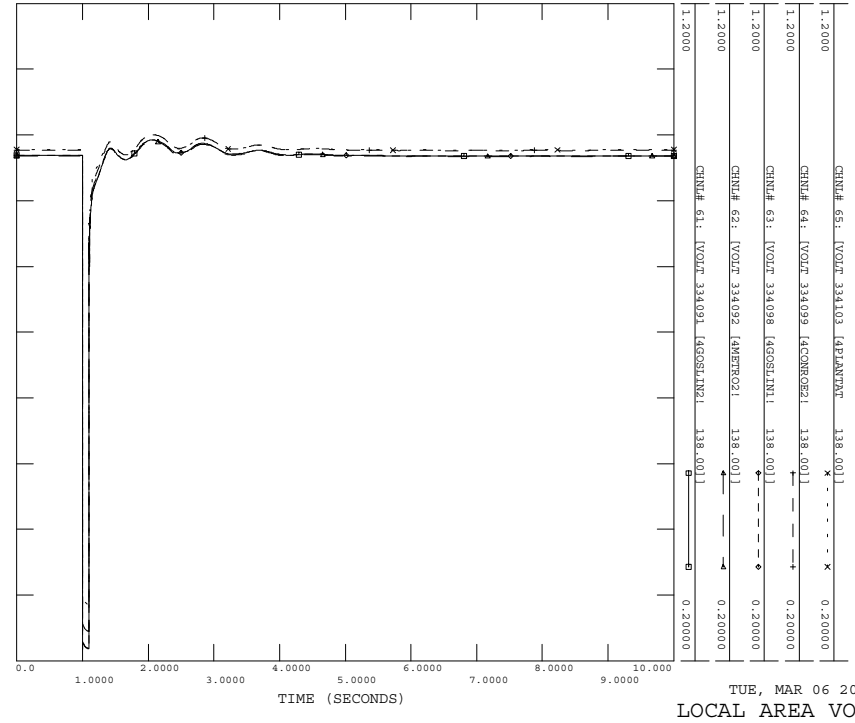
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



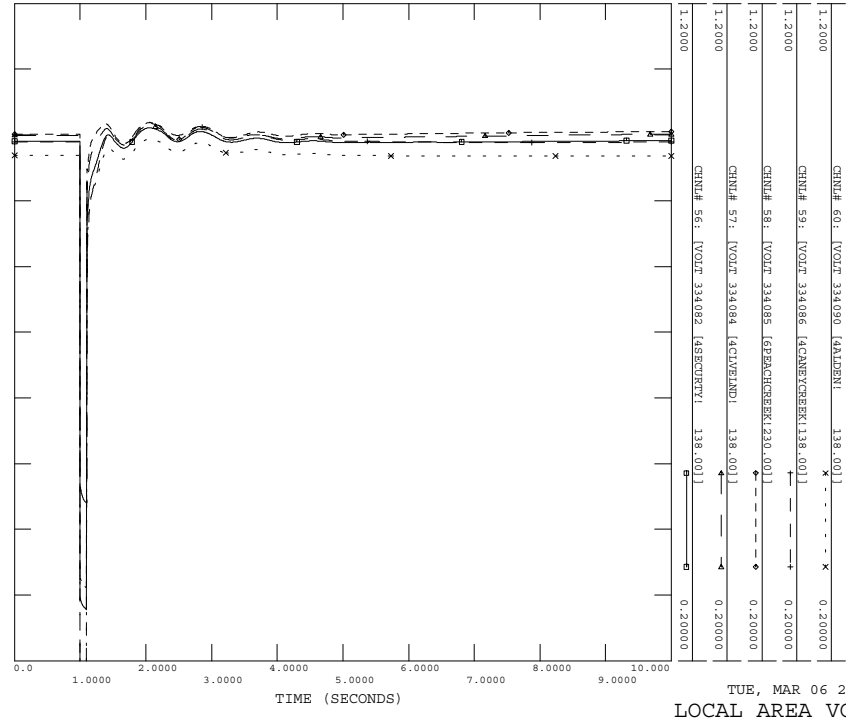
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



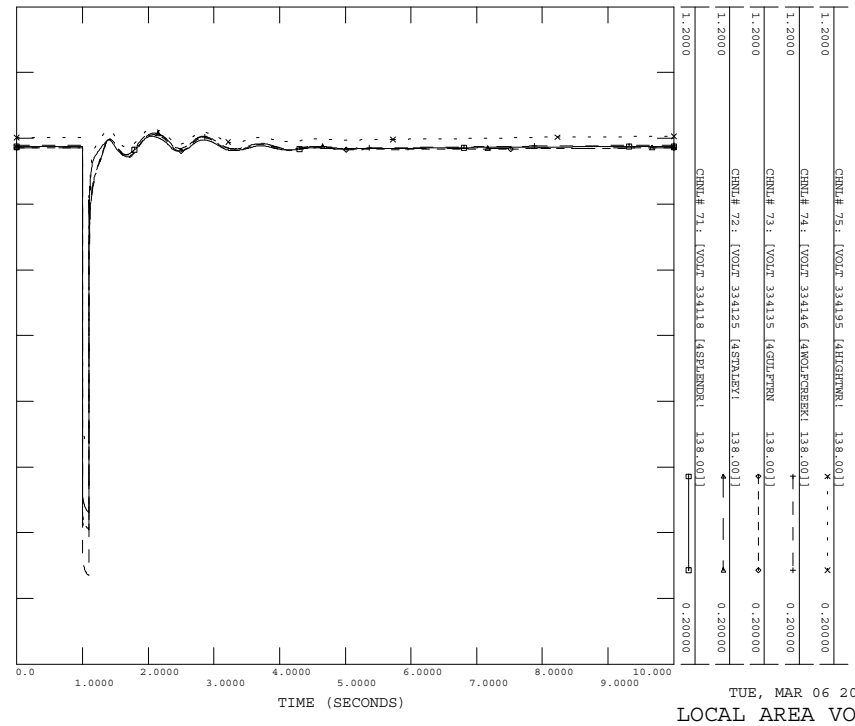
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



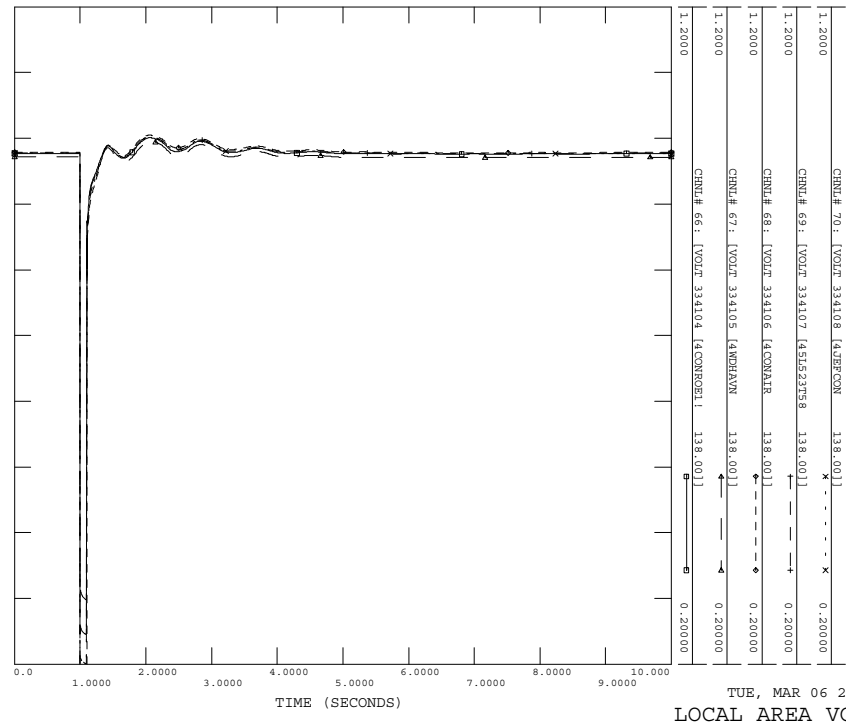
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



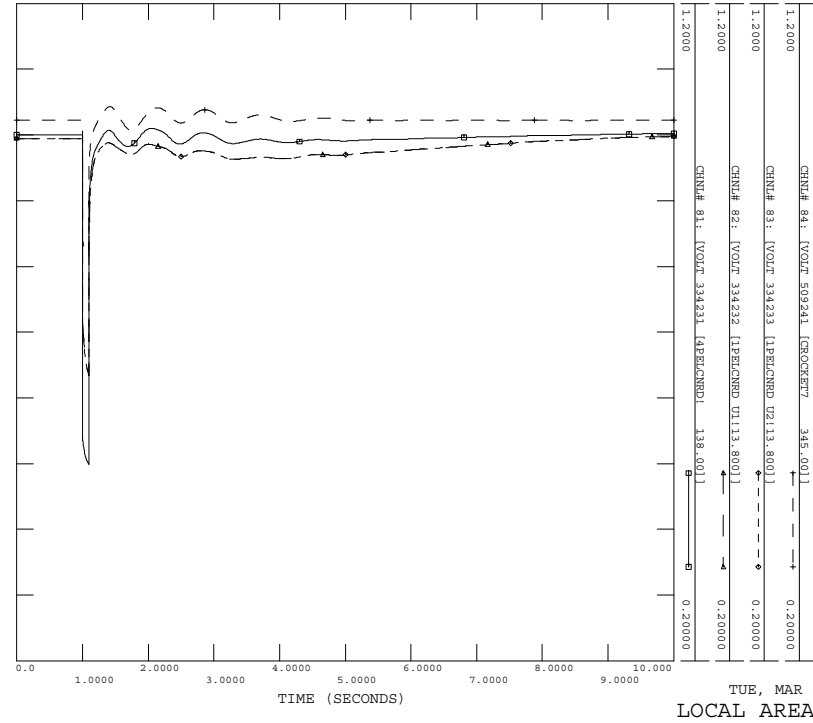
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



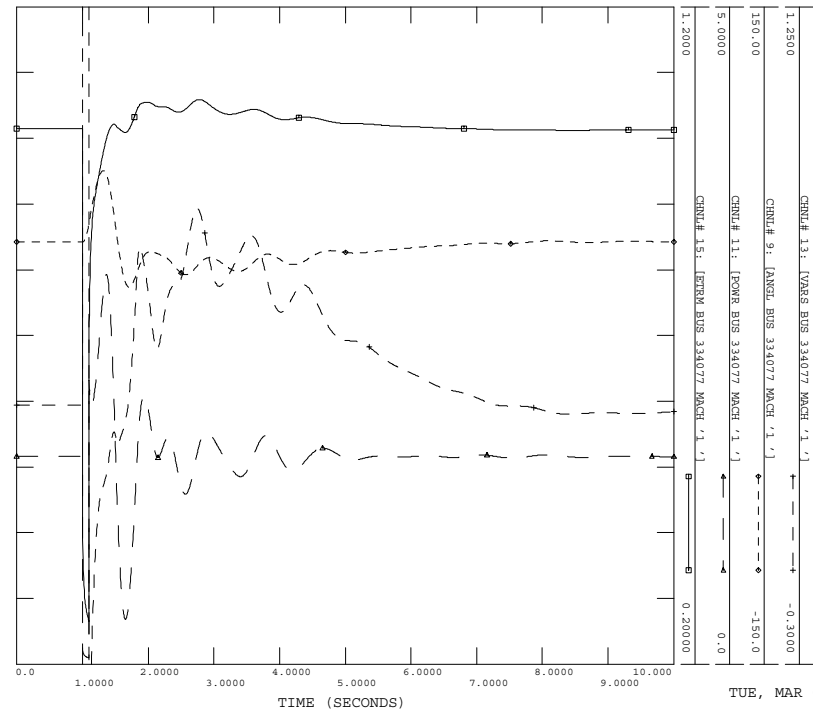
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



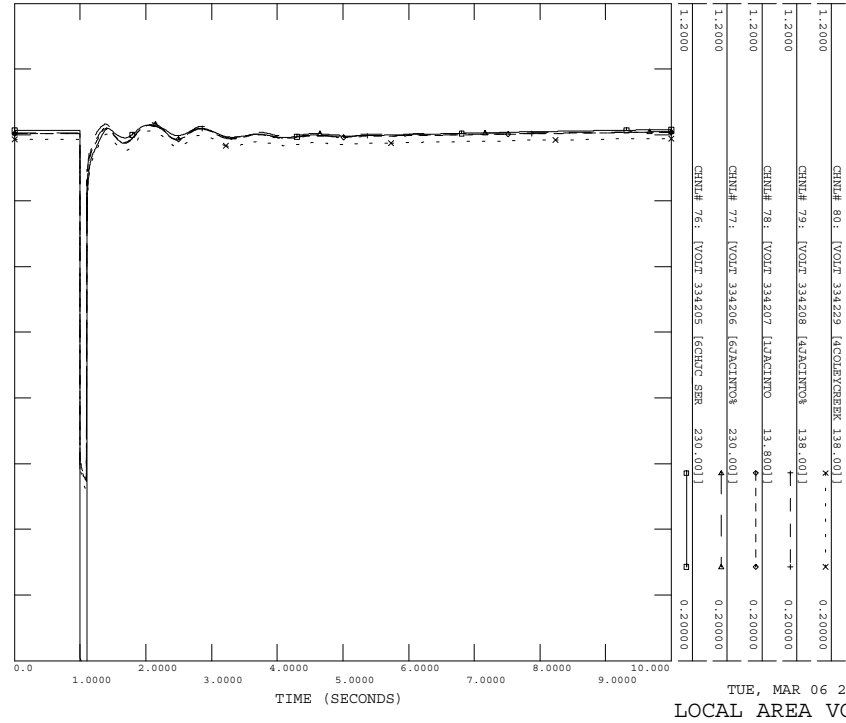
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



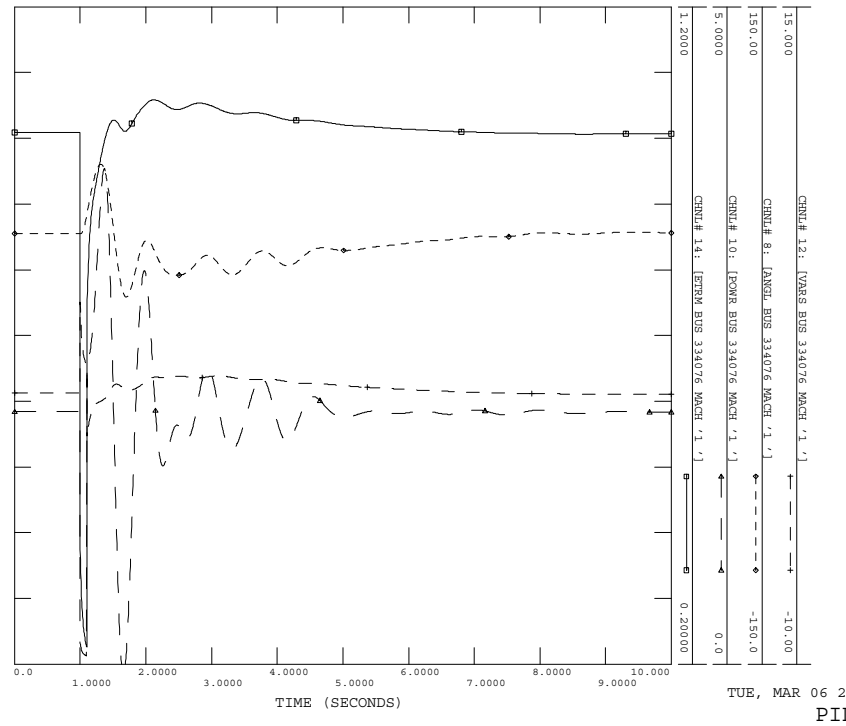
6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT



6CY 3PH FAULT LEWIS CREEK 230/138 KV AUTO TRAF0  
 TRIP LEWIS CREEK 230/138 KV TRAF0  
 FILE: FAULT-7.OUT

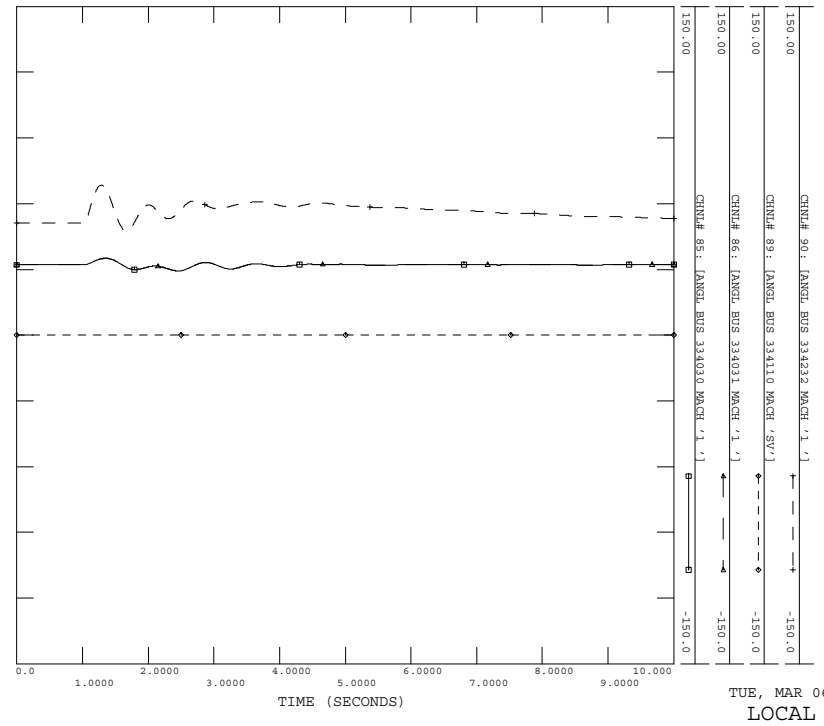


### **C.1.8 FAULT-8**

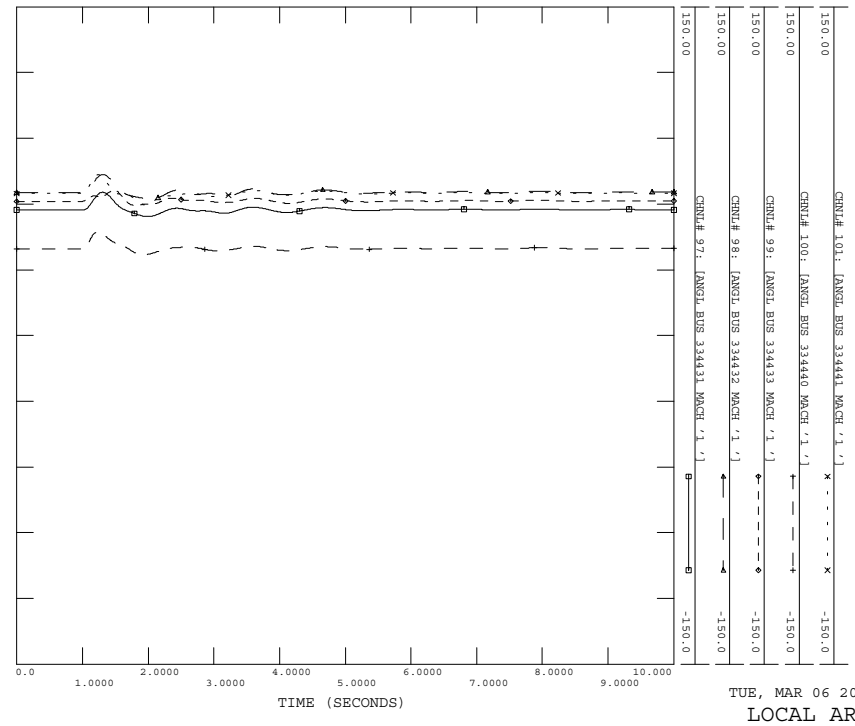
3 phase fault on the Jacinto – Splendora 138 kV

- a) Apply fault at Jacinto 138kV bus
- b) Clear fault after 6 cycles by tripping the Jacinto – Splendora 138 kV

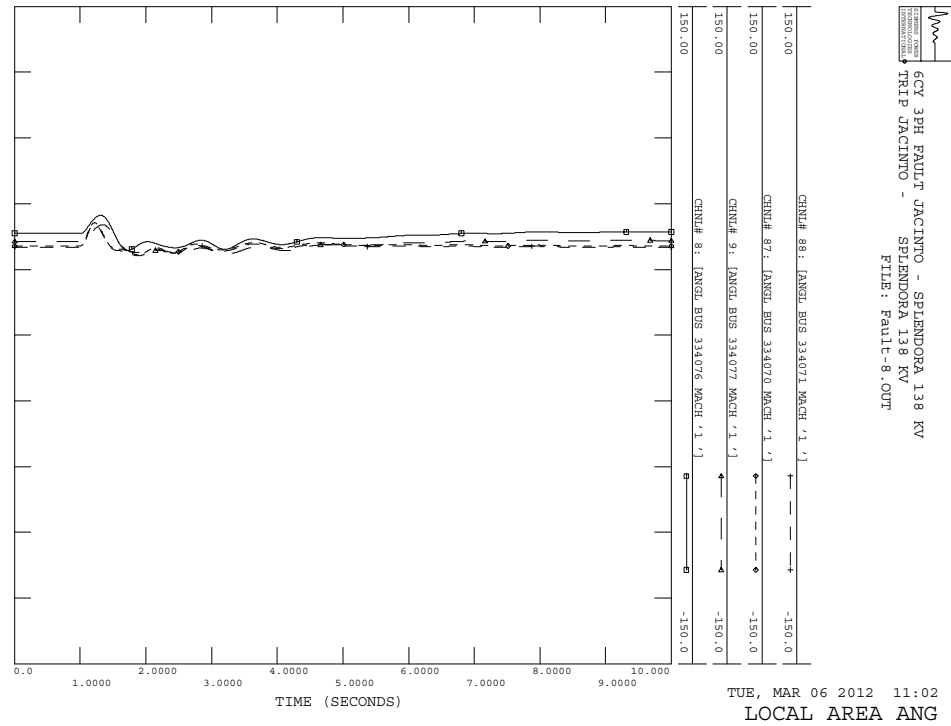
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
TRIP JACINTO - SPUENDORA 138 KV  
FILE: Fault-8.OUT



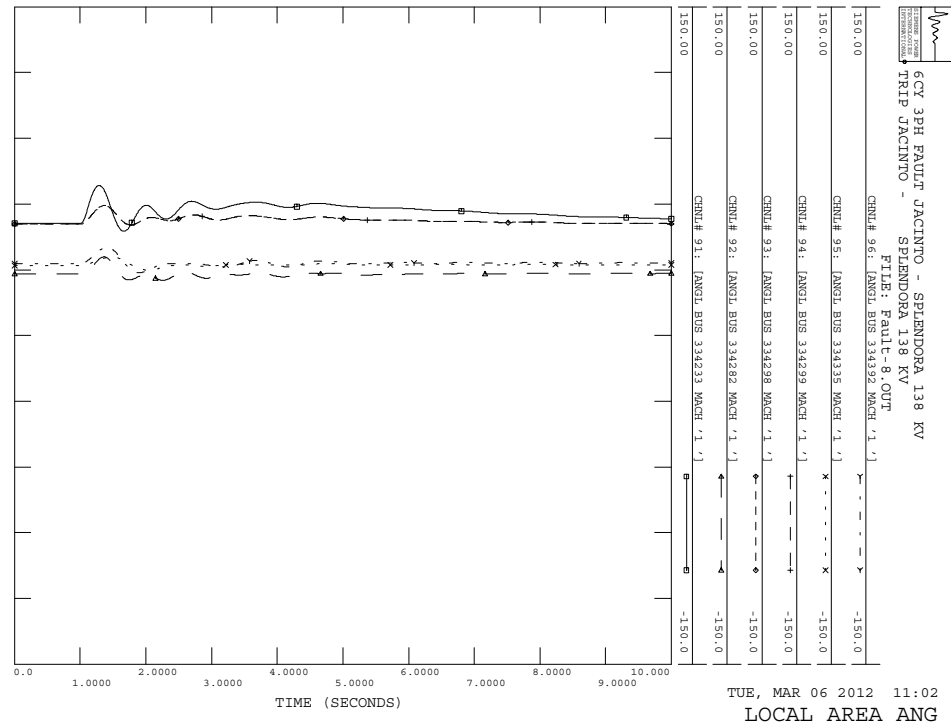
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
TRIP JACINTO - SPUENDORA 138 KV  
FILE: Fault-8.OUT



6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
TRIP JACINTO - SPUENDORA 138 KV  
FILE: Fault-8.OUT

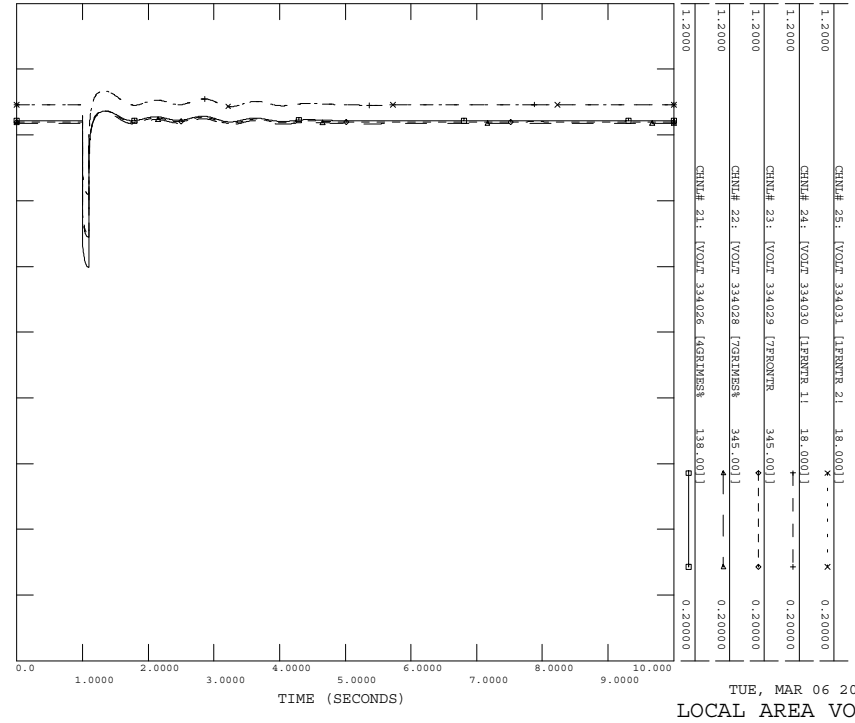


6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
TRIP JACINTO - SPUENDORA 138 KV  
FILE: Fault-8.OUT

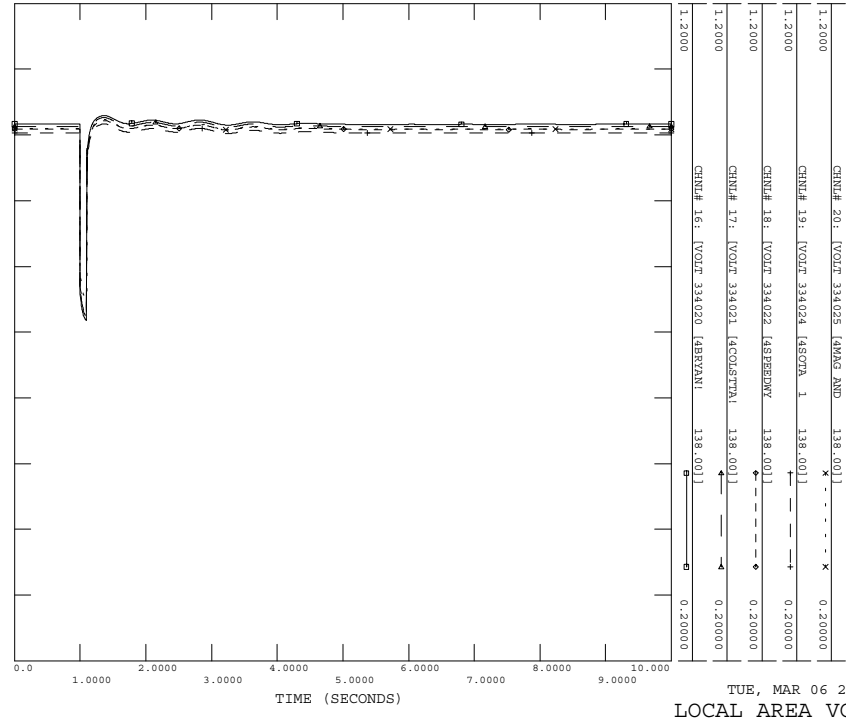




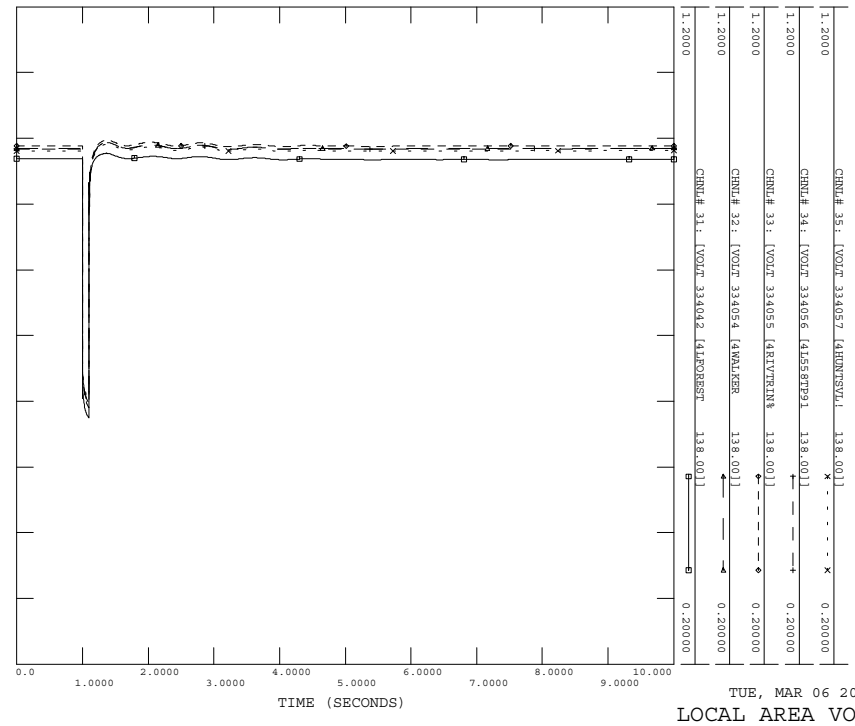
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



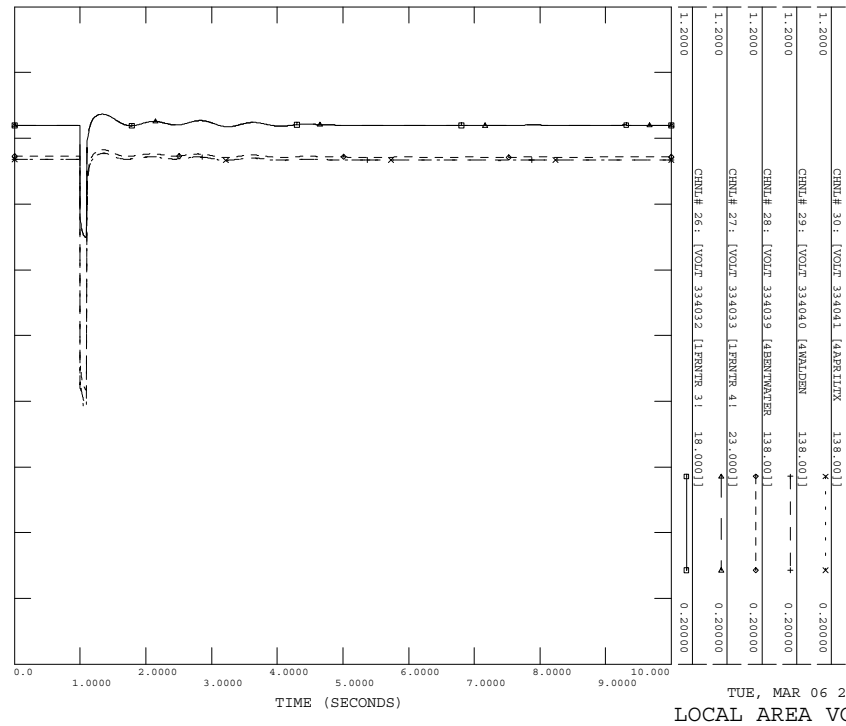
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



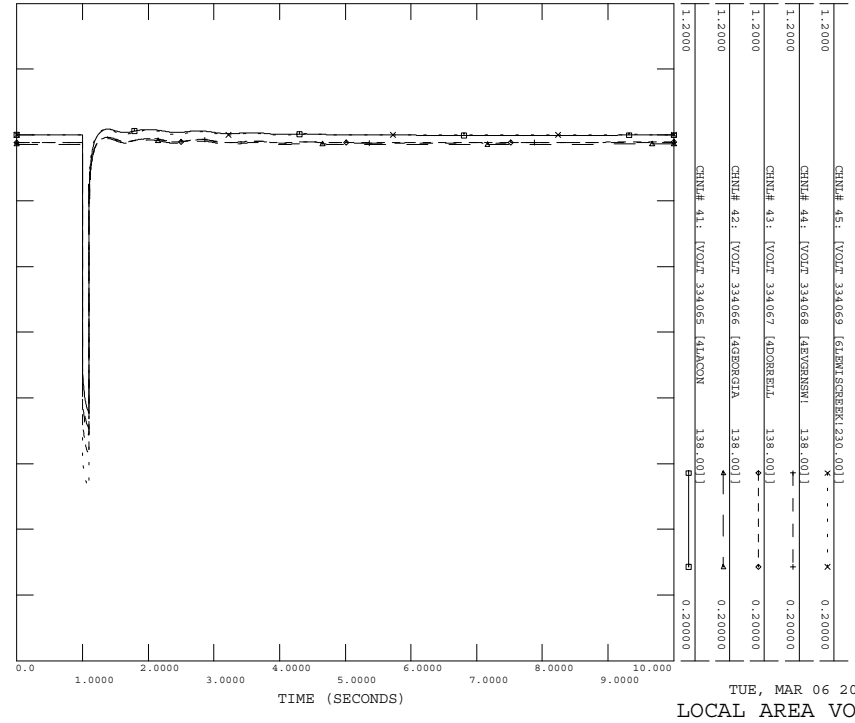
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



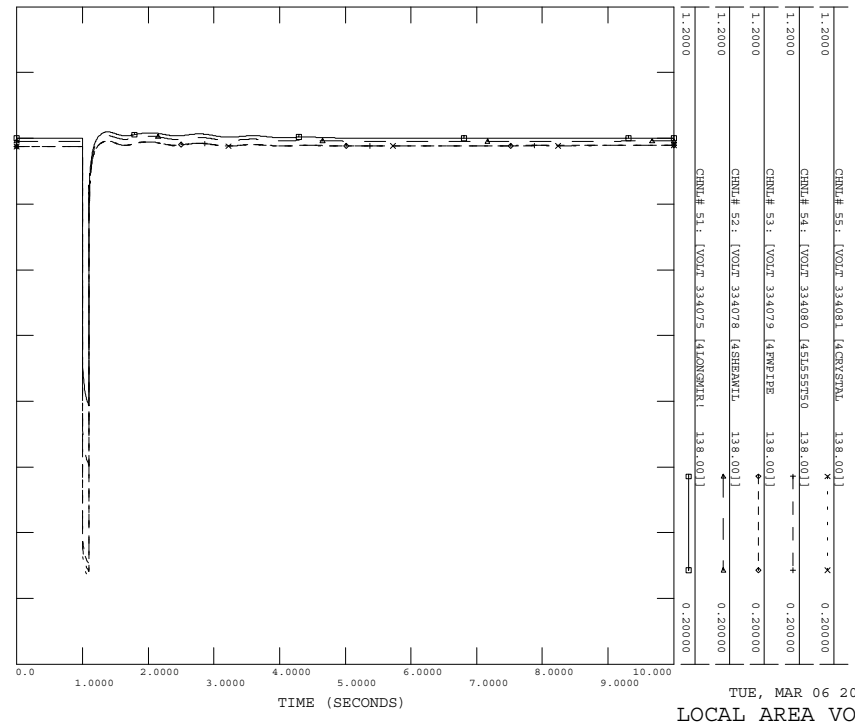
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



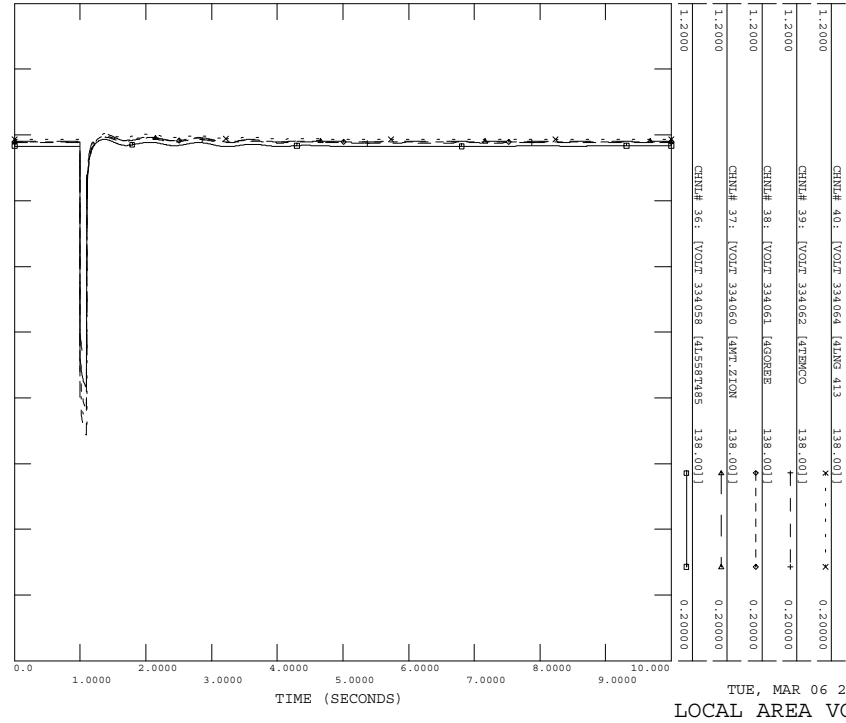
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



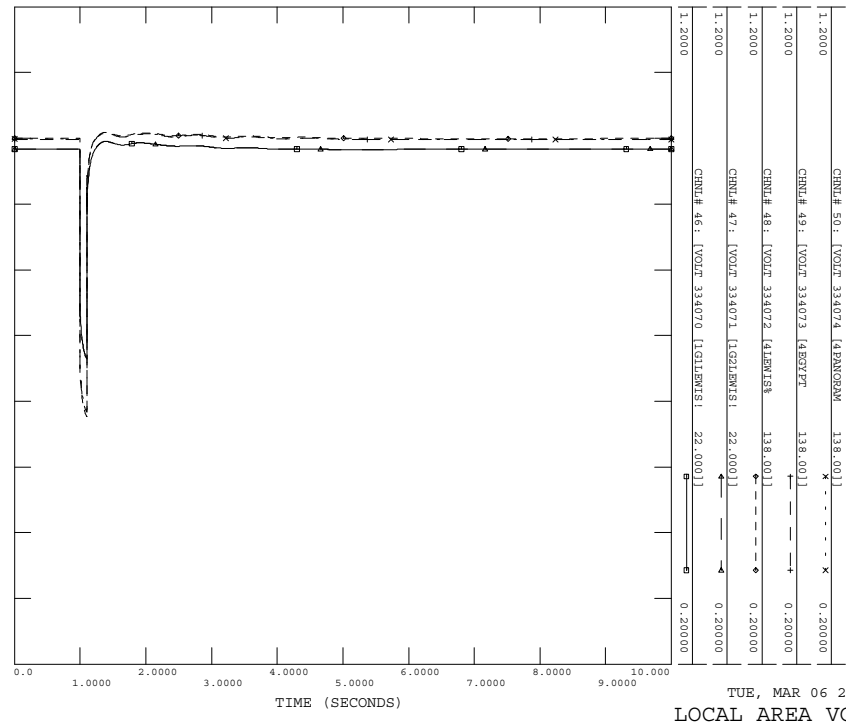
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



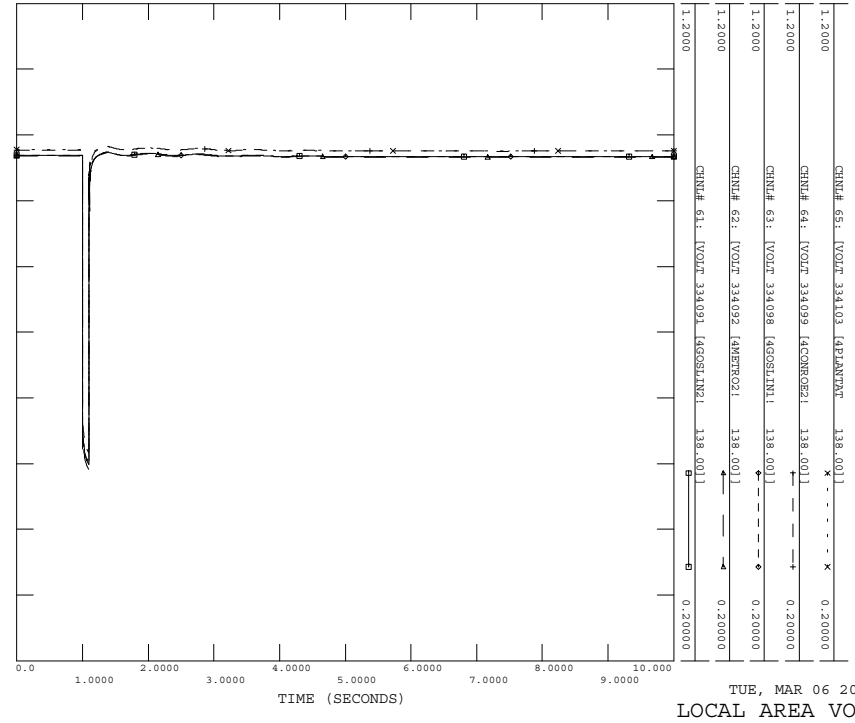
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



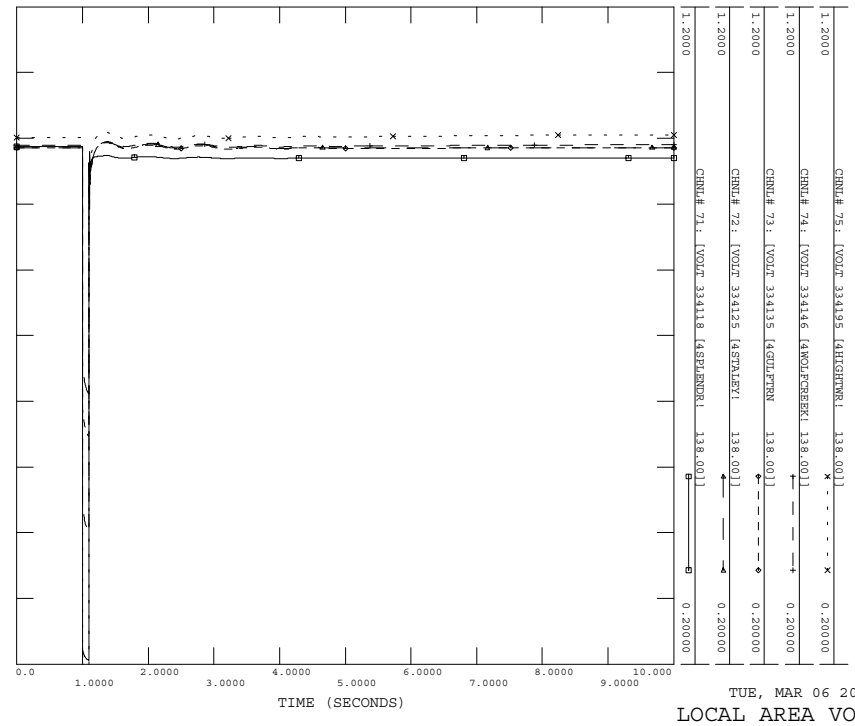
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



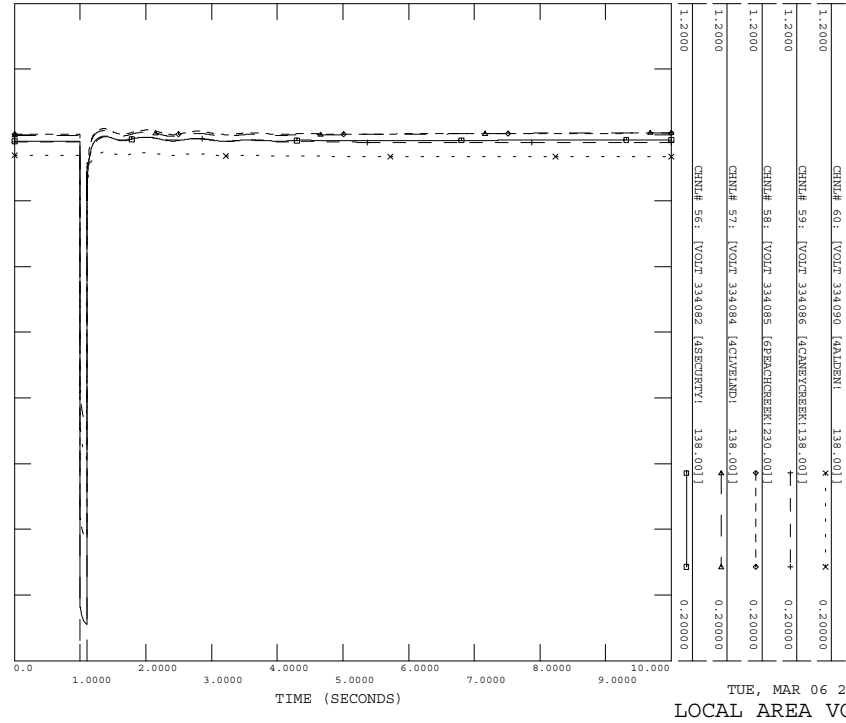
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



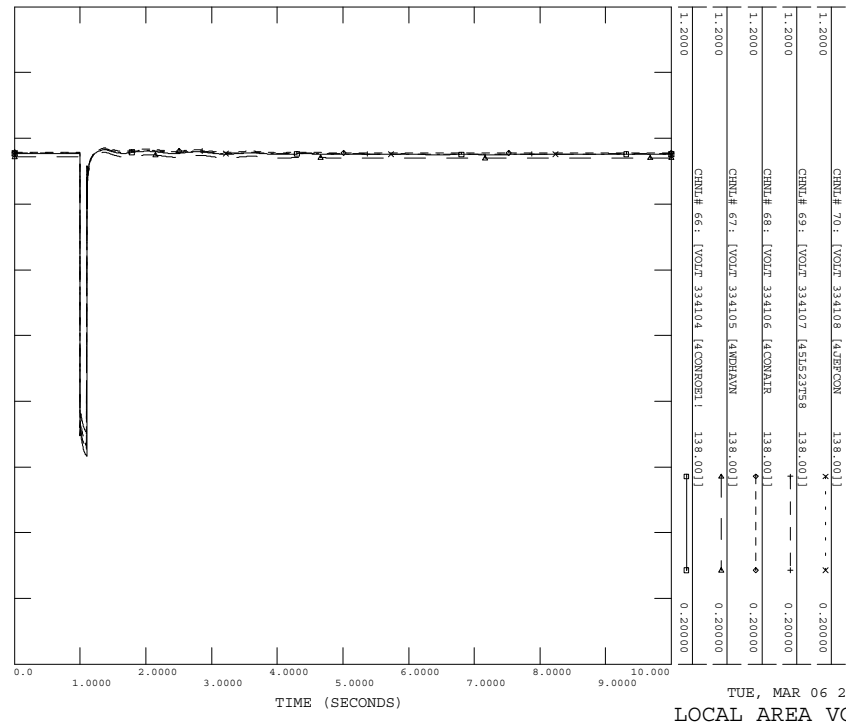
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



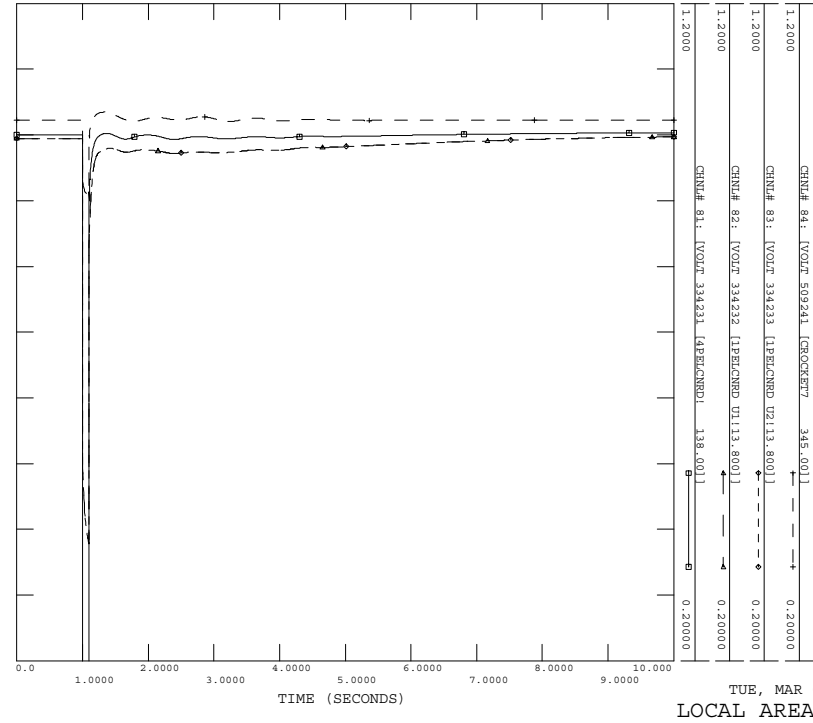
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



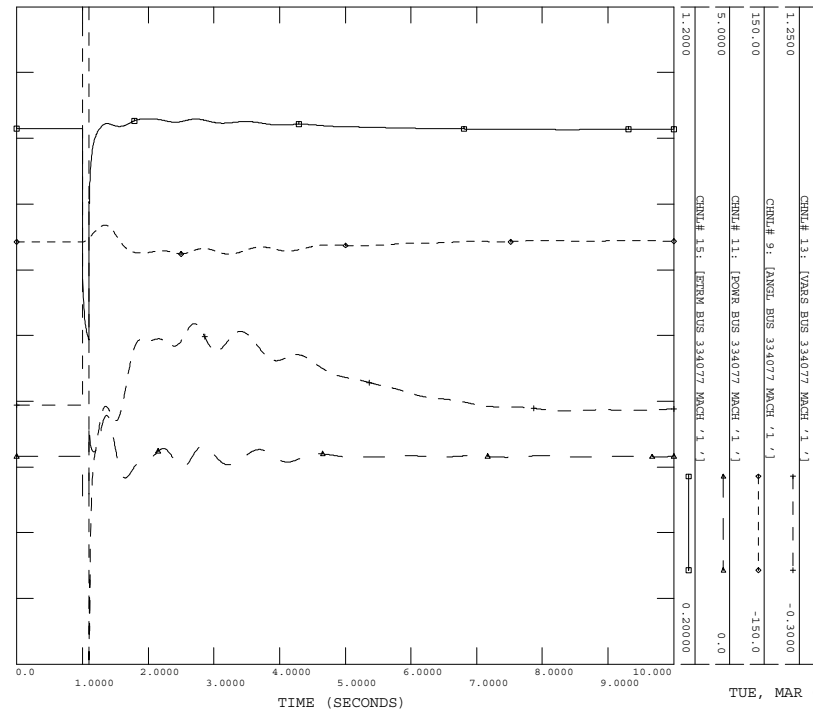
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



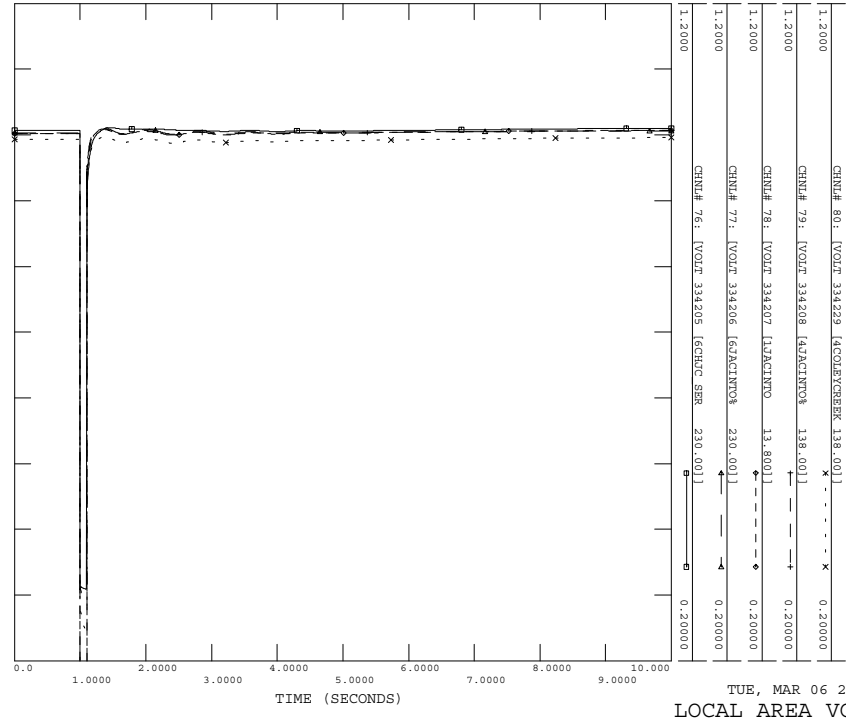
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



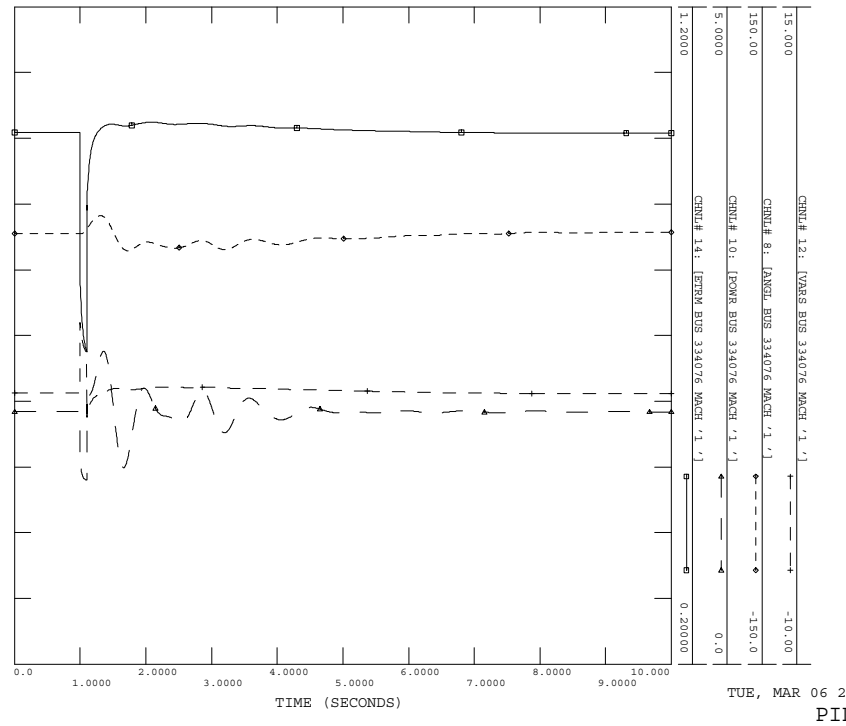
6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT



6CY 3PH FAULT JACINTO - SPUENDORA 138 KV  
 TRIP JACINTO - SPUENDORA 138 KV  
 FILE: FAULT-8.OUT

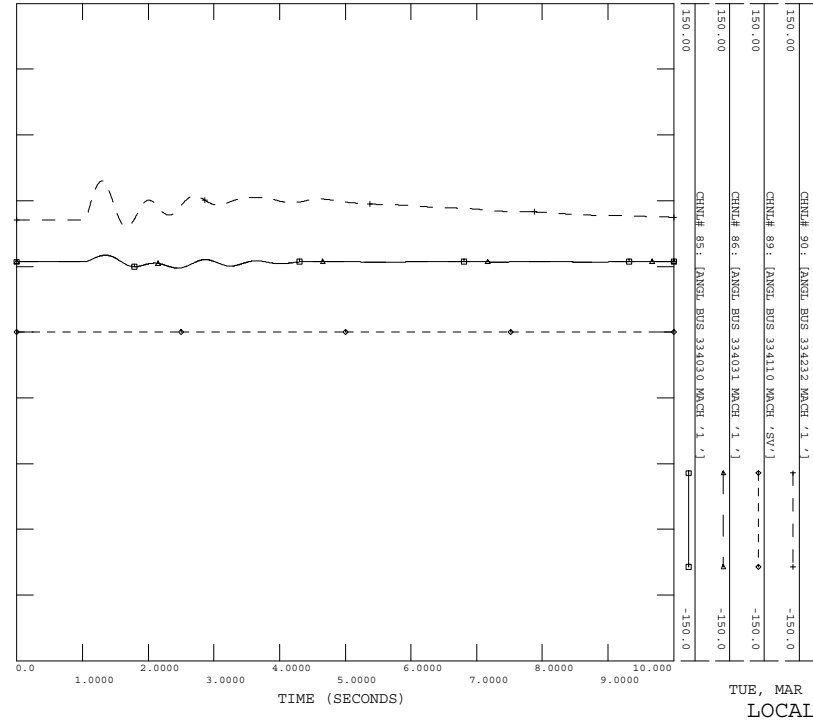


### **C.1.9 FAULT-9**

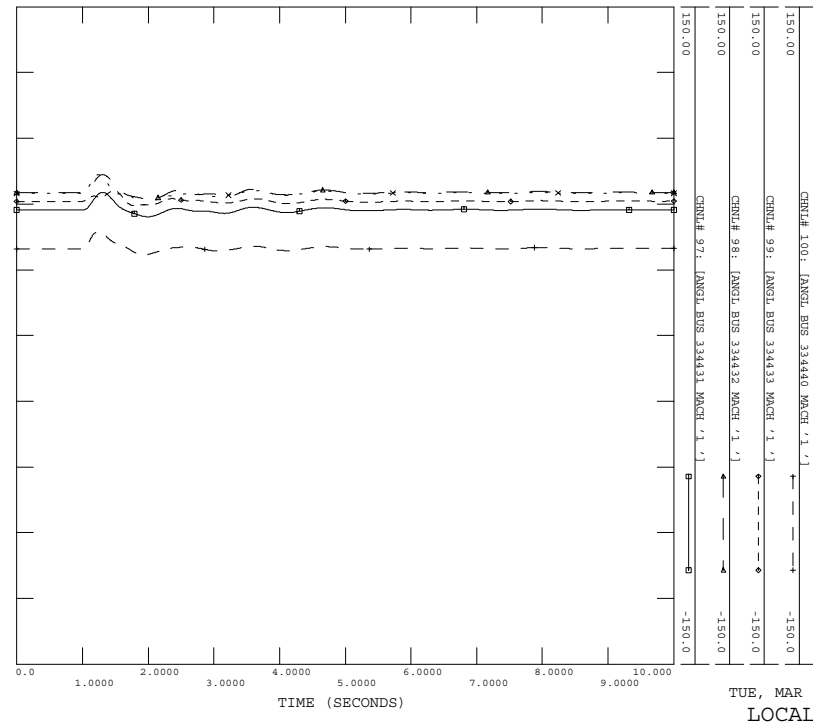
3 phase fault on the Jacinto – Cleveland 138 kV

- a) Apply fault at Jacinto 138kV bus
- b) Clear fault after 6 cycles by tripping the Jacinto – Cleveland 138 kV

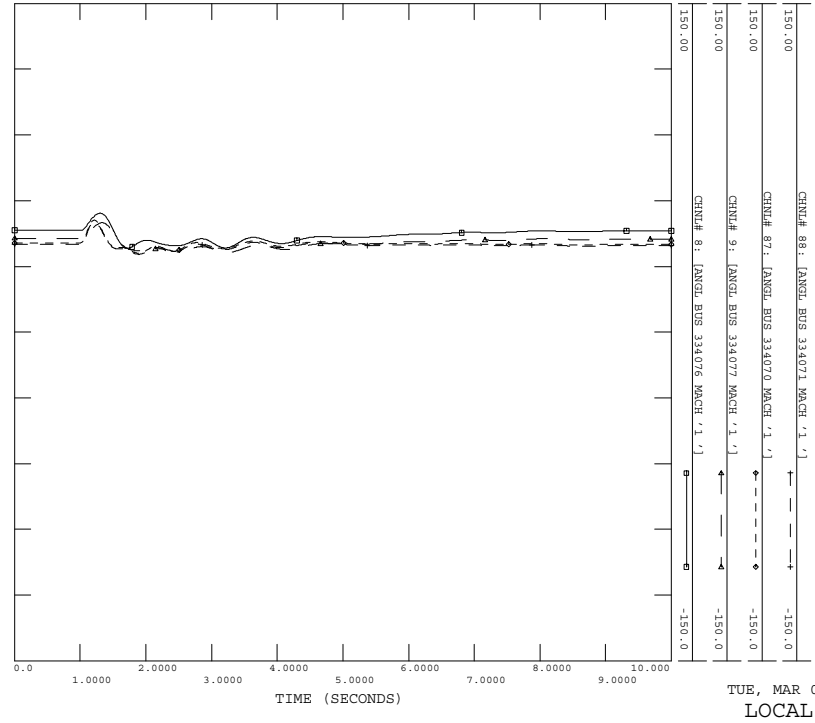
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: Fault-9.OUT



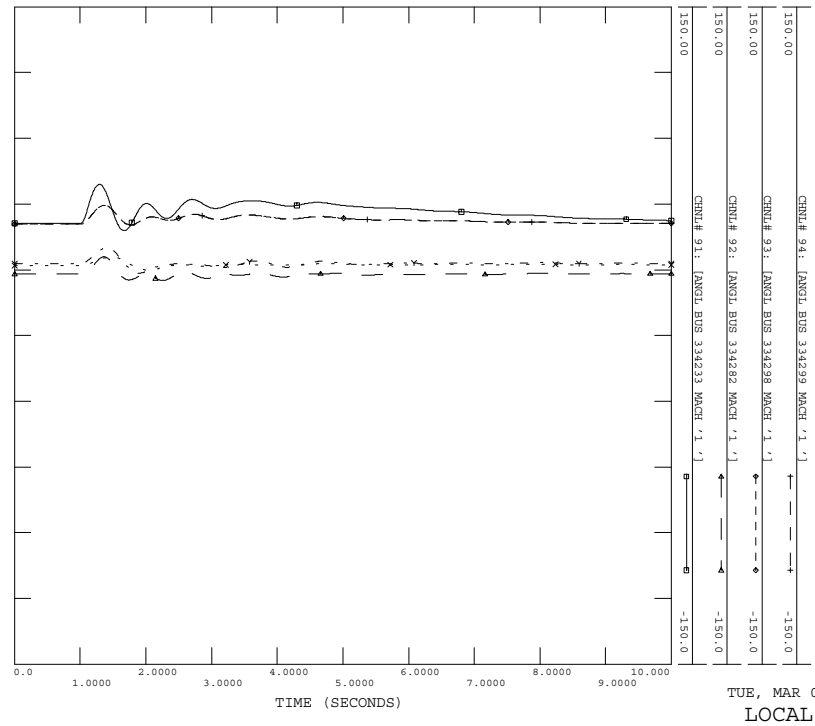
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: Fault-9.OUT



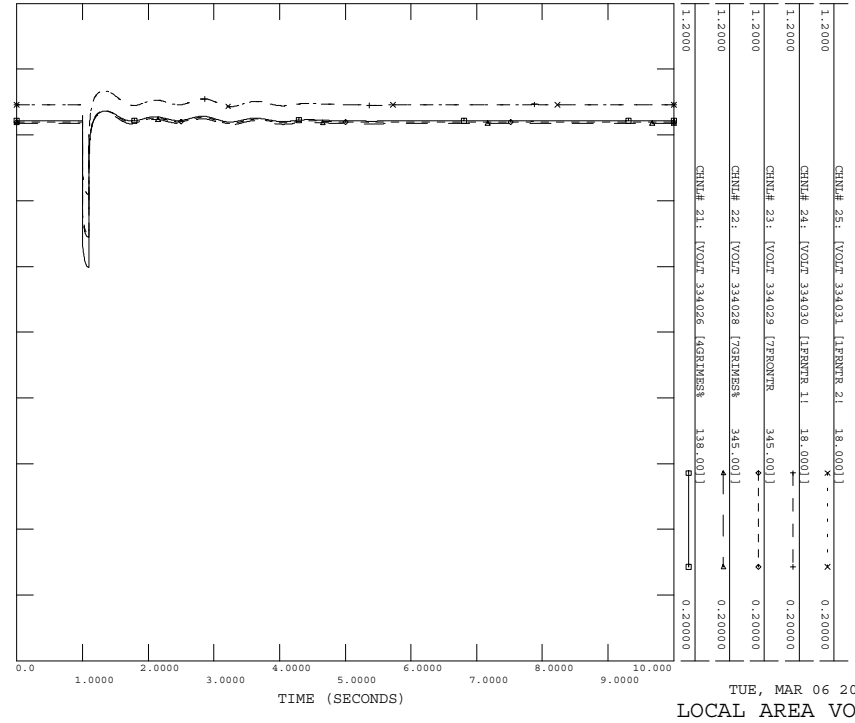
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: Fault-9.OUT



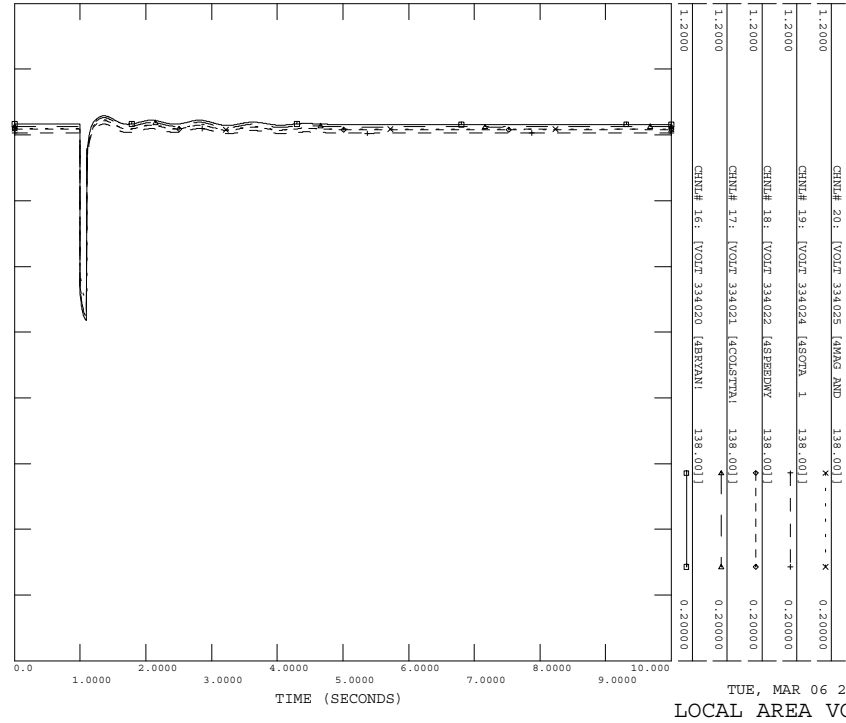
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: Fault-9.OUT



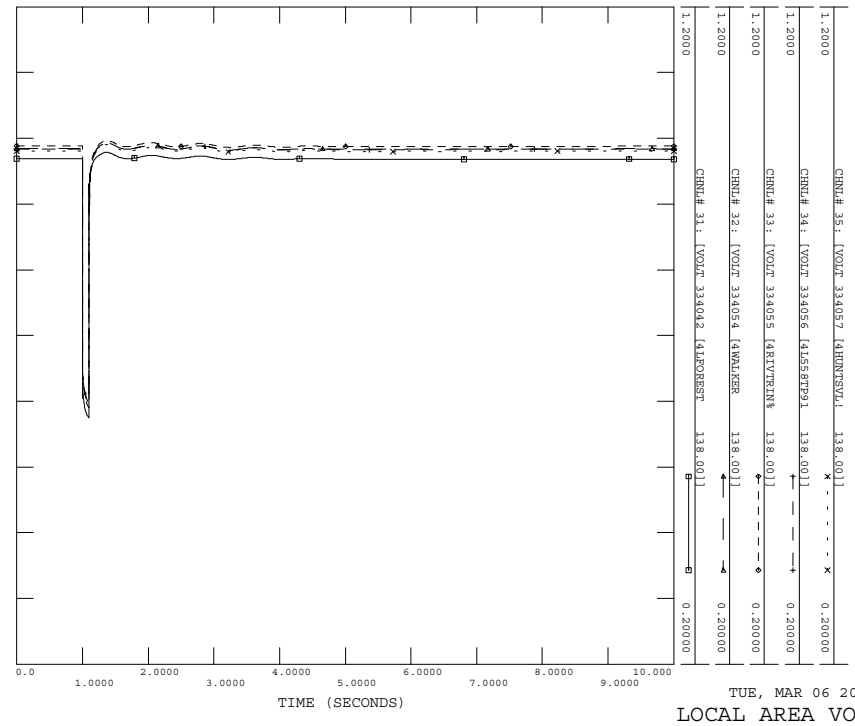
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT



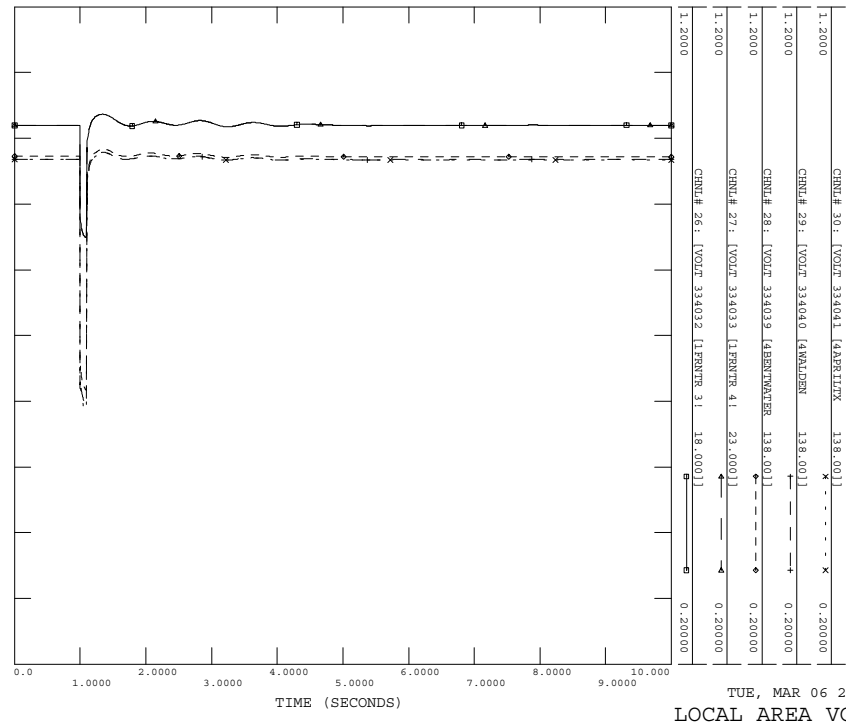
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT



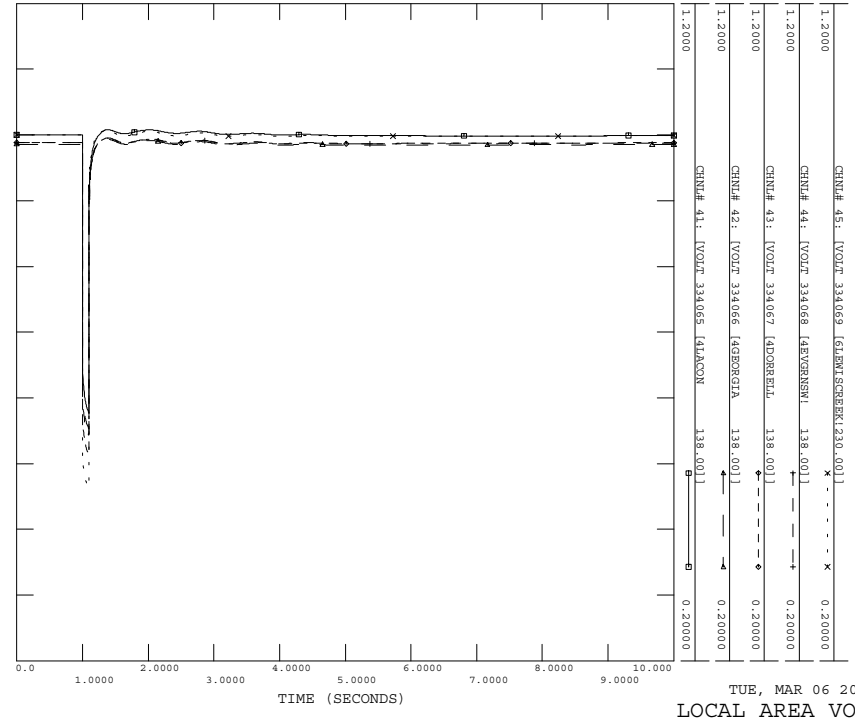
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT



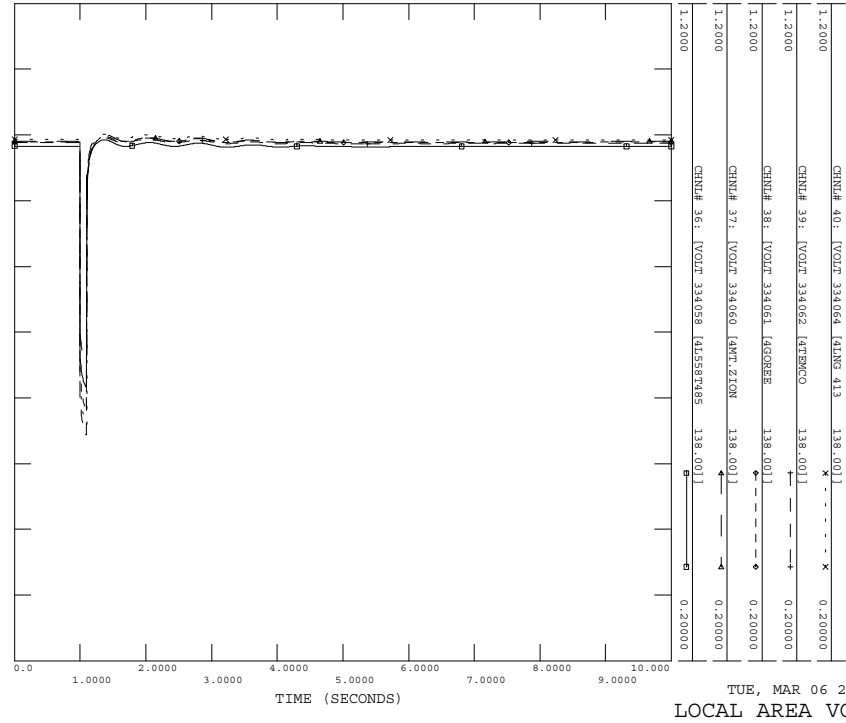
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT



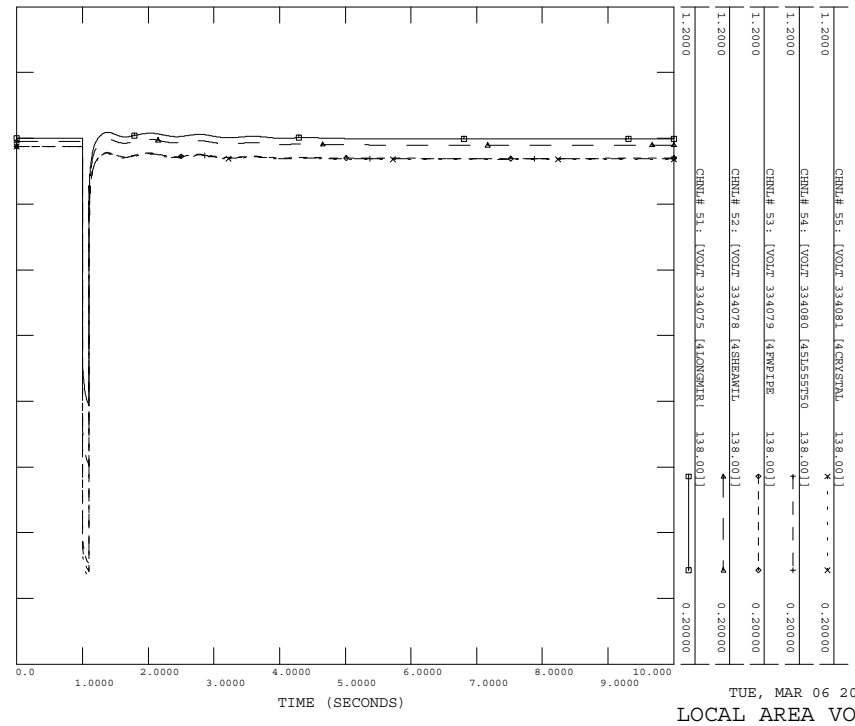
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT



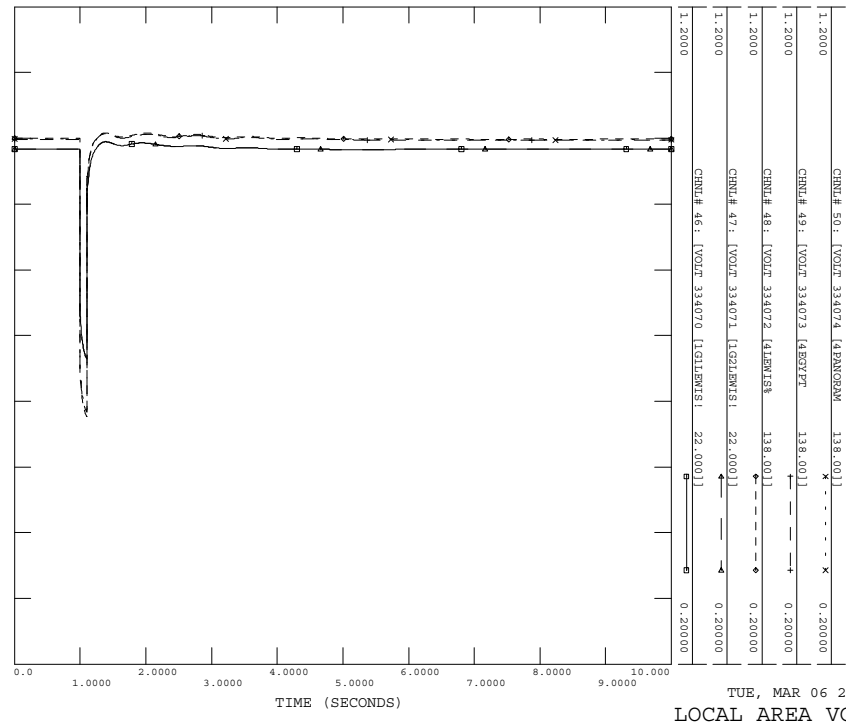
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT



6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT

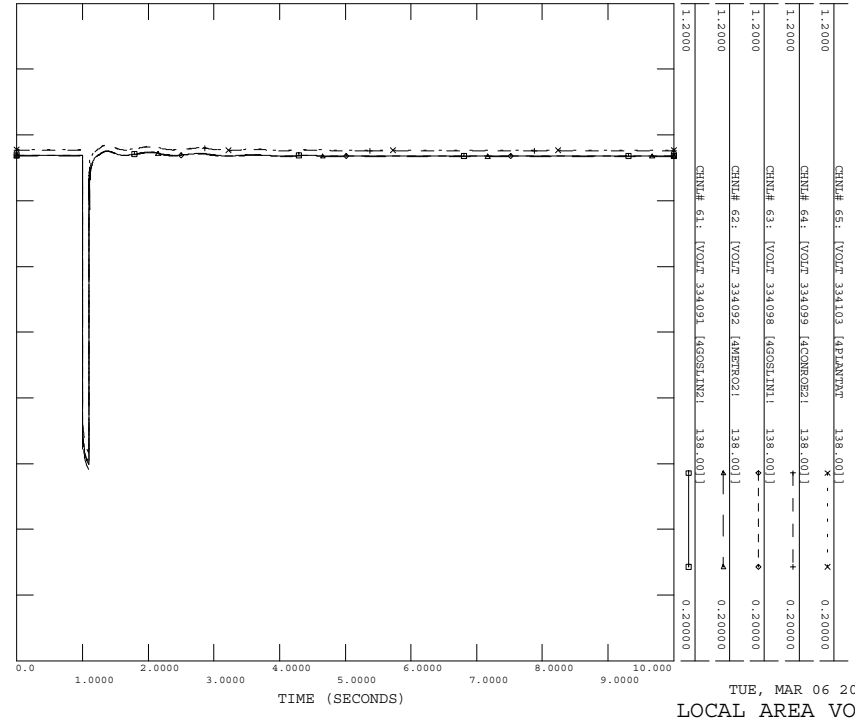


6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT

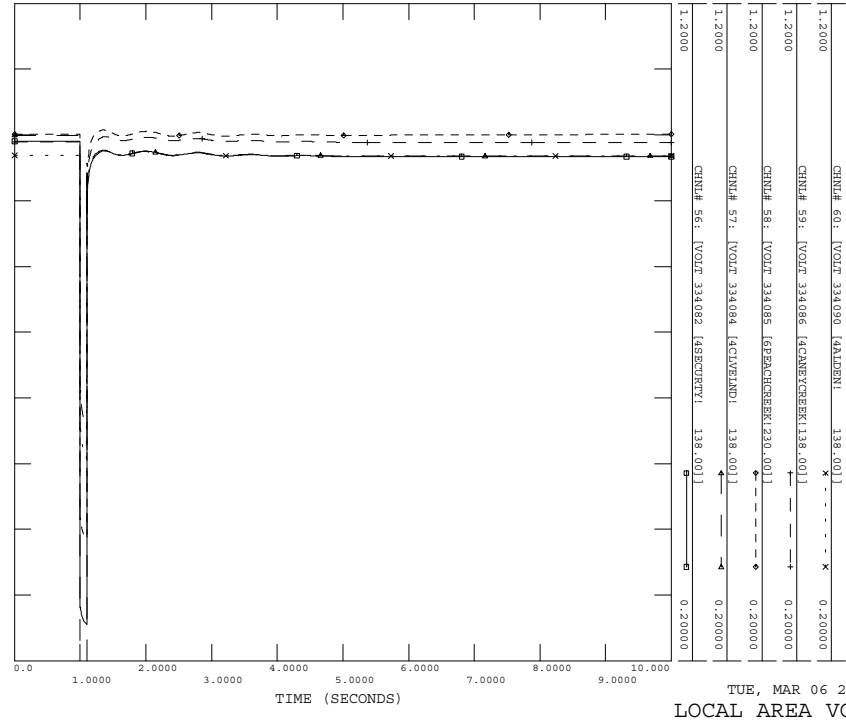




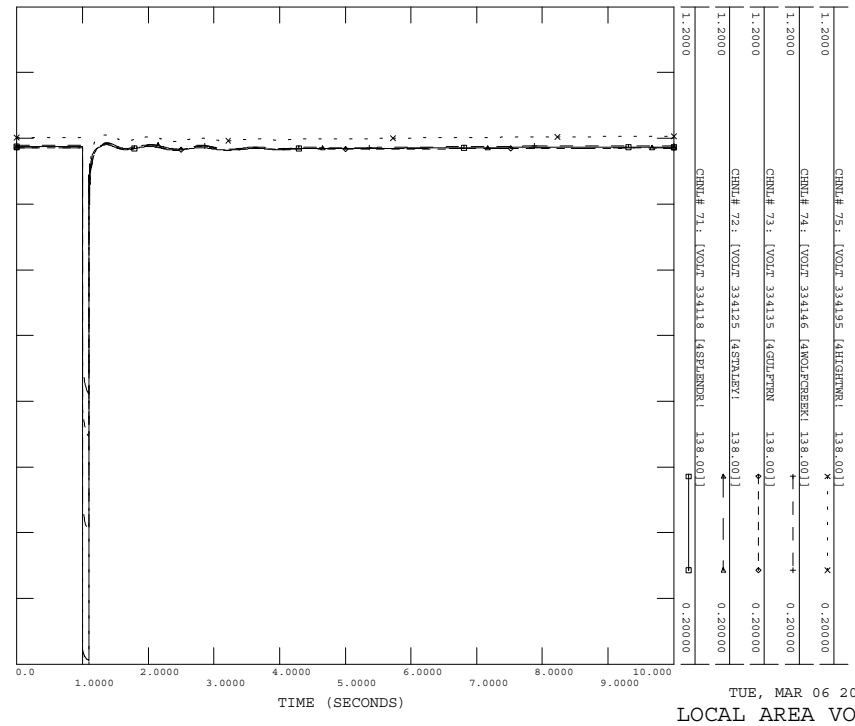
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT



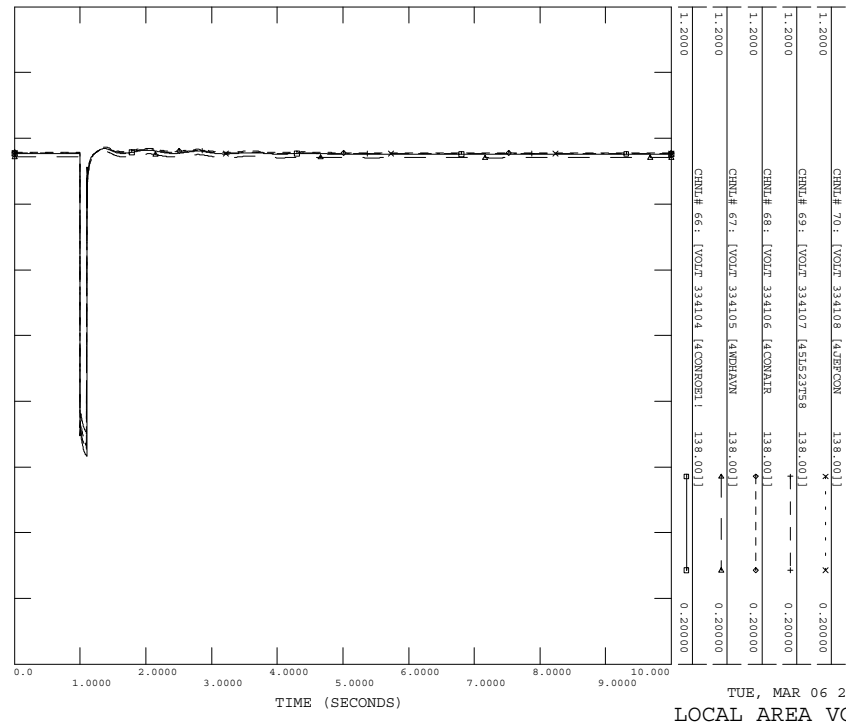
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT



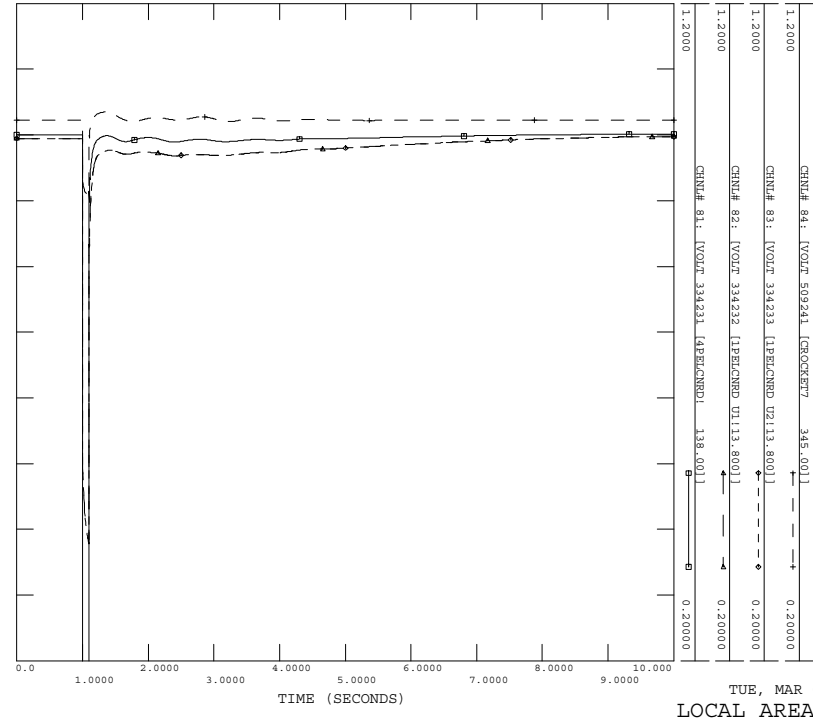
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT



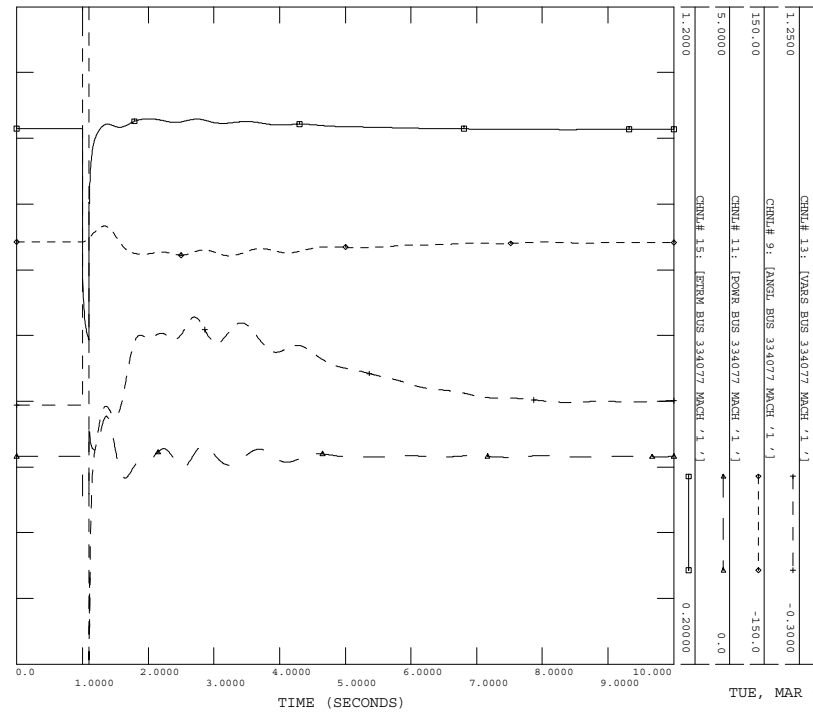
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: FAULT-9.OUT



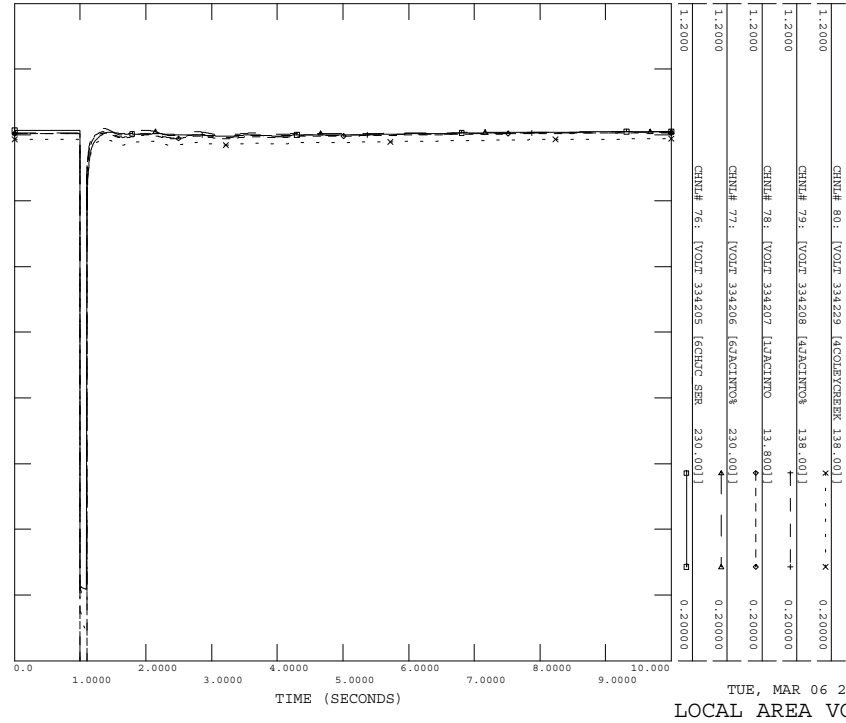
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: Fault-9.OUT



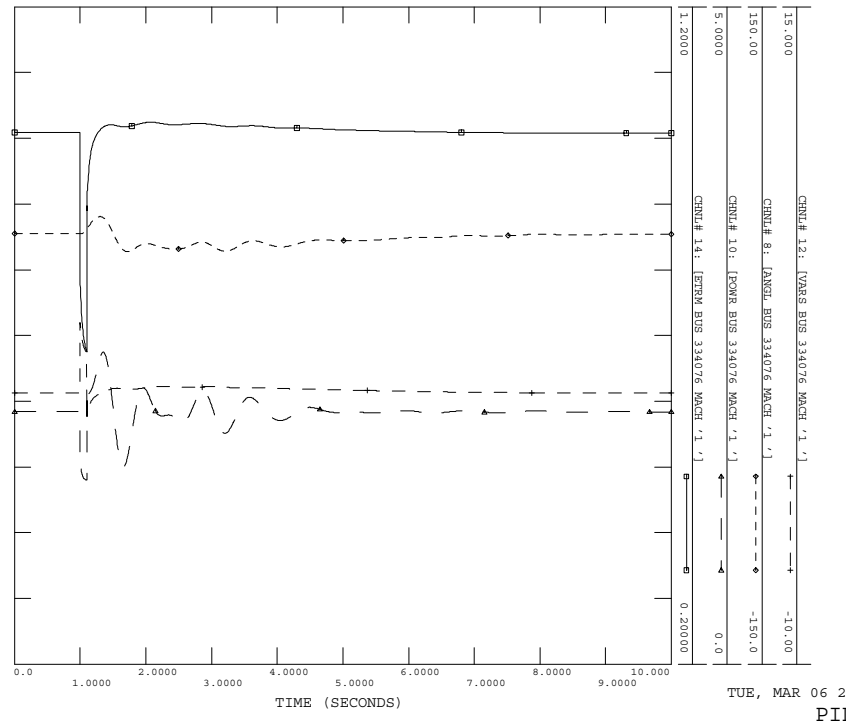
6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: Fault-9.OUT



6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: Fault-9.OUT



6CY 3PH FAULT JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND 138 KV  
 FILE: Fault-9.OUT

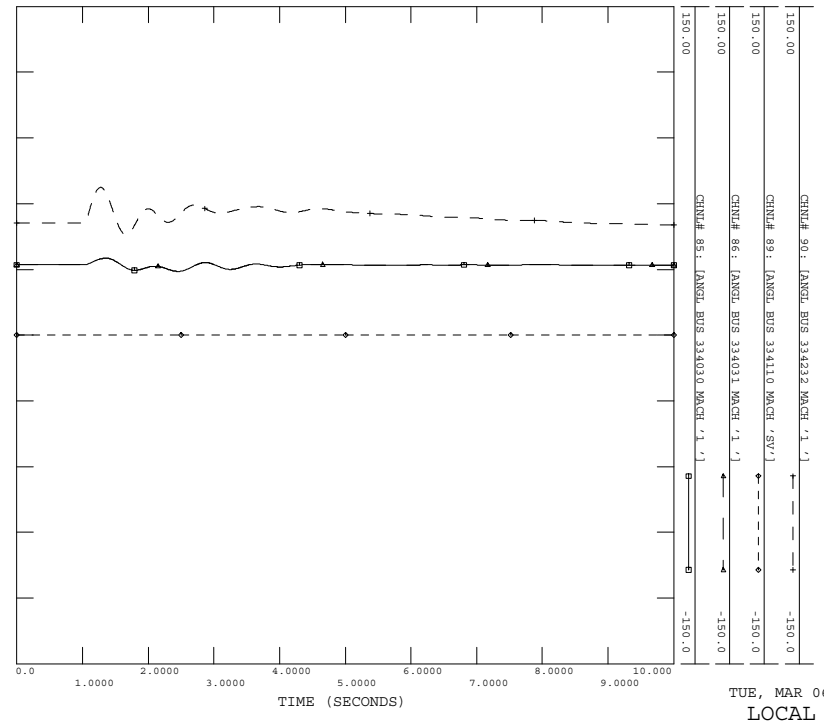


### **C.1.10      FAULT-10**

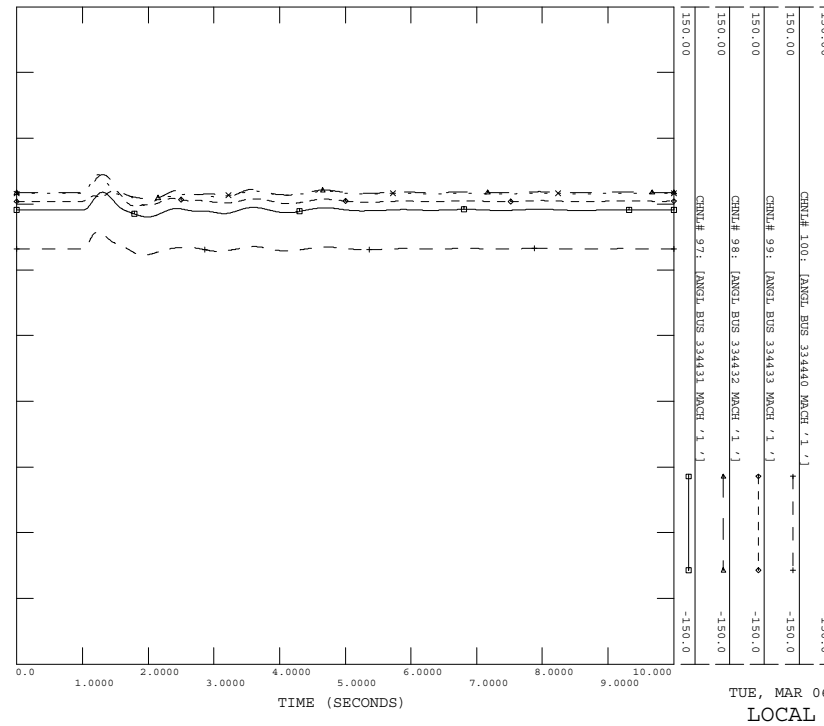
3 phase fault on the Jacinto – Hightower 138 kV

- a) Apply fault at Jacinto 138kV bus
- b) Clear fault after 6 cycles by tripping the Jacinto – Hightower 138 kV

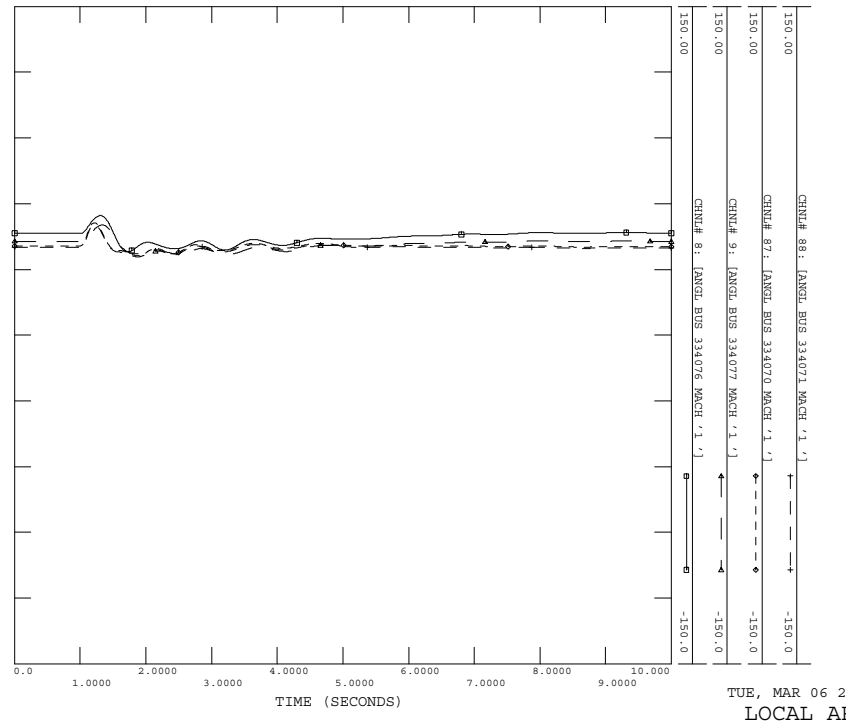
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



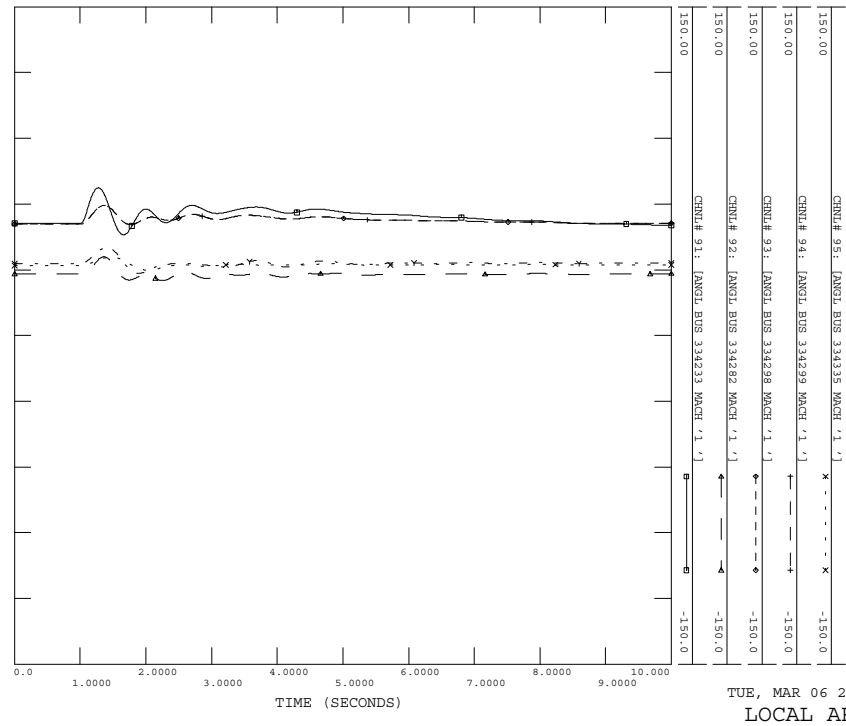
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



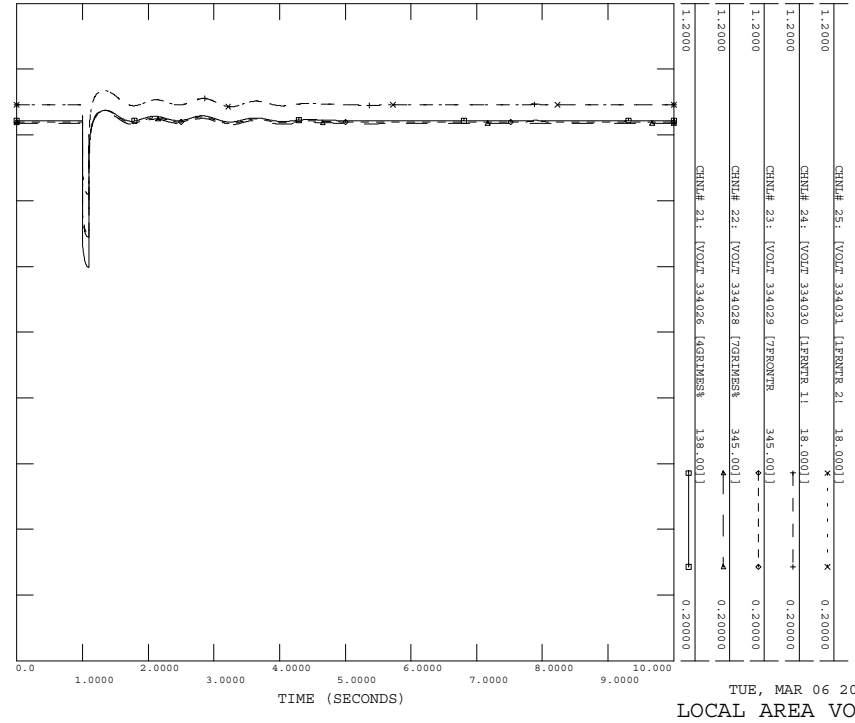
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



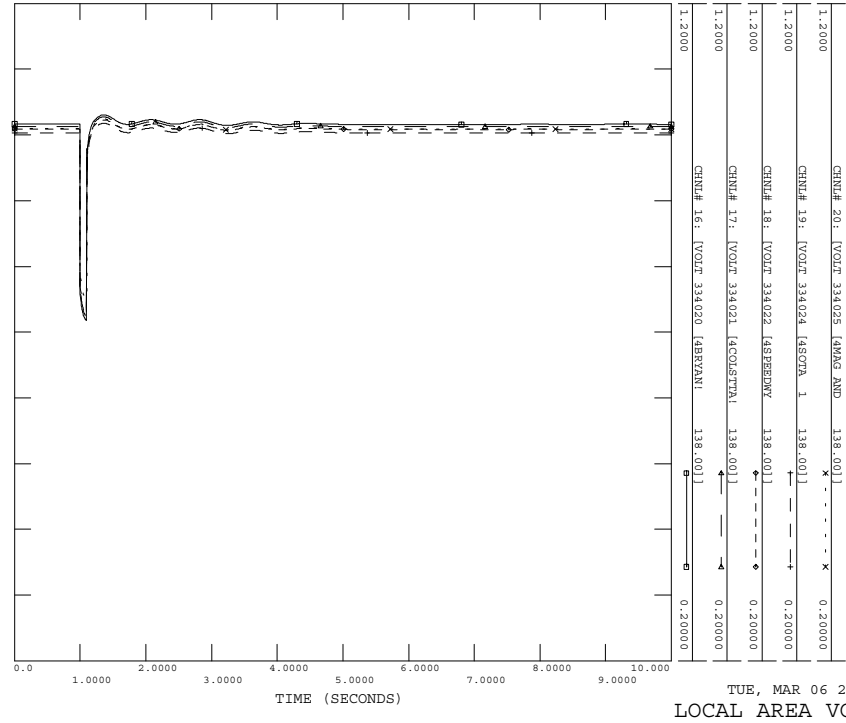
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



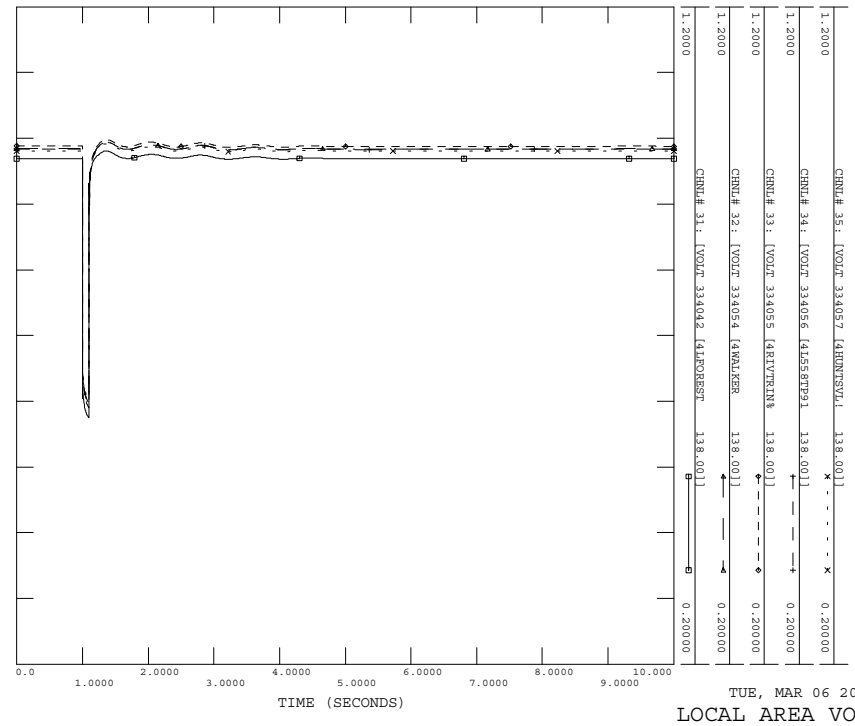
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



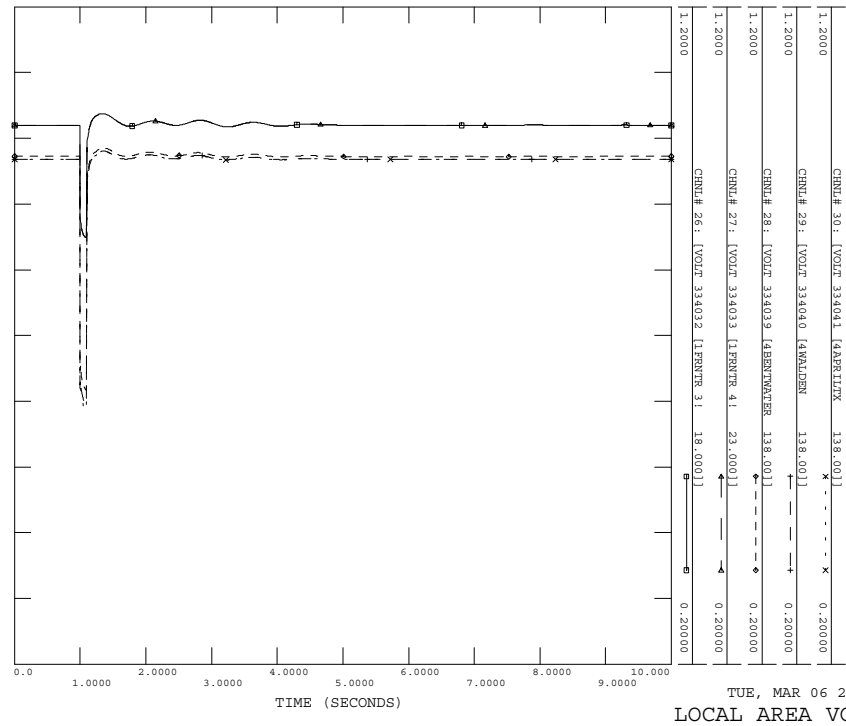
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



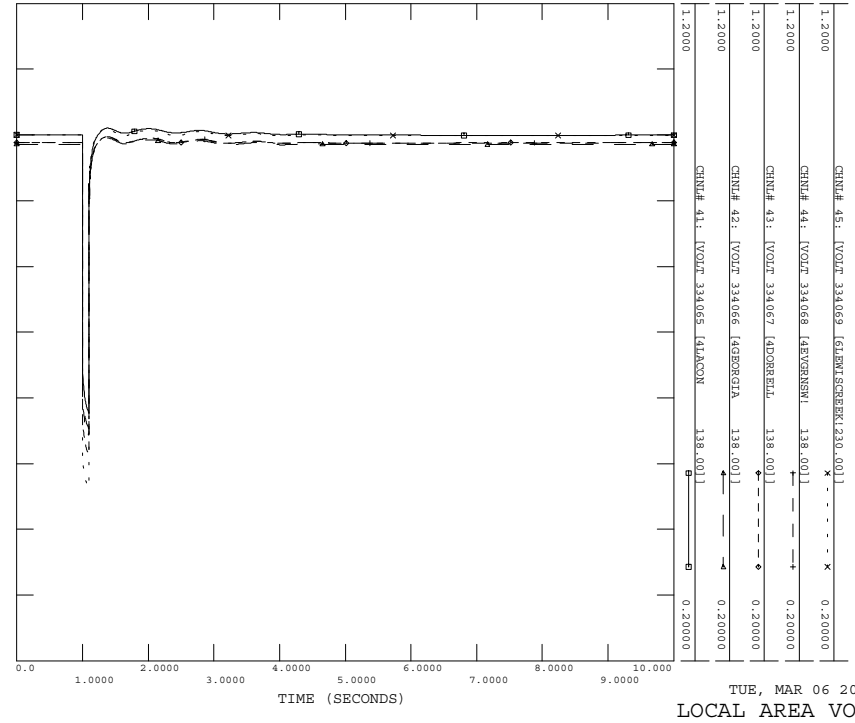
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



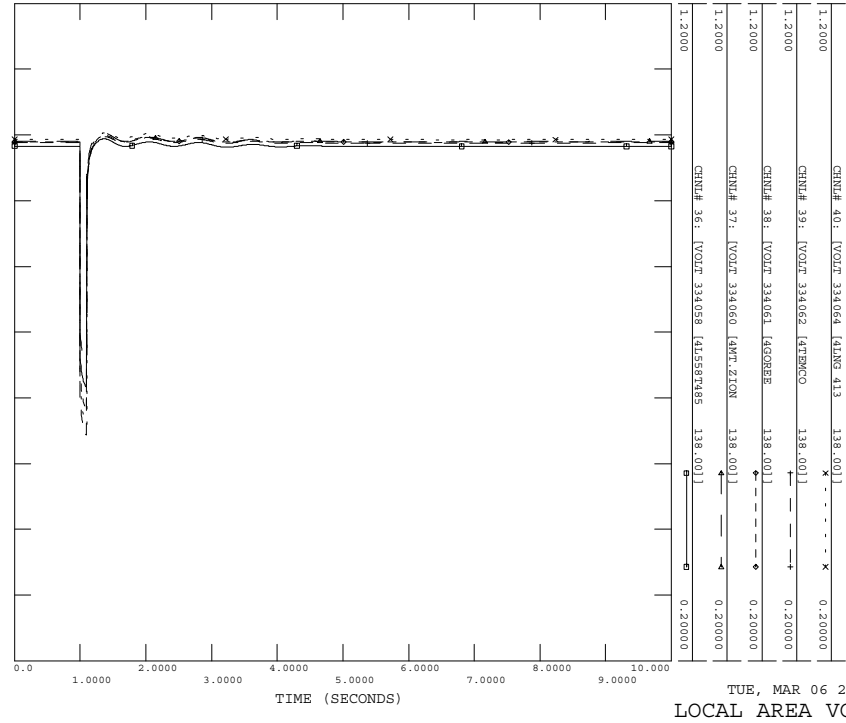
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



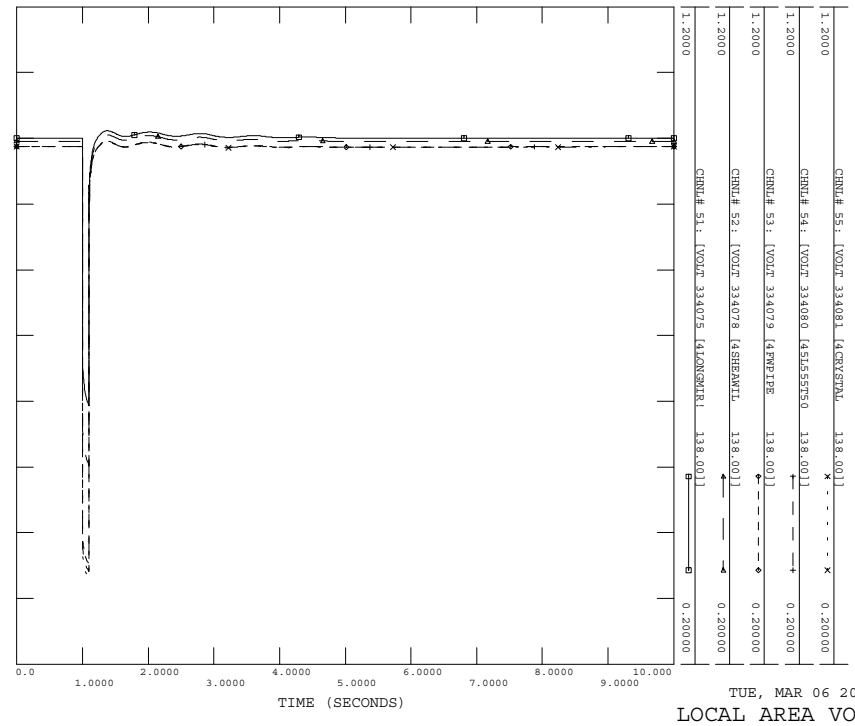
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 HIGHTOWER 138 KV  
 TRIP JACINTO -  
 FILE: Fault-10.OUT



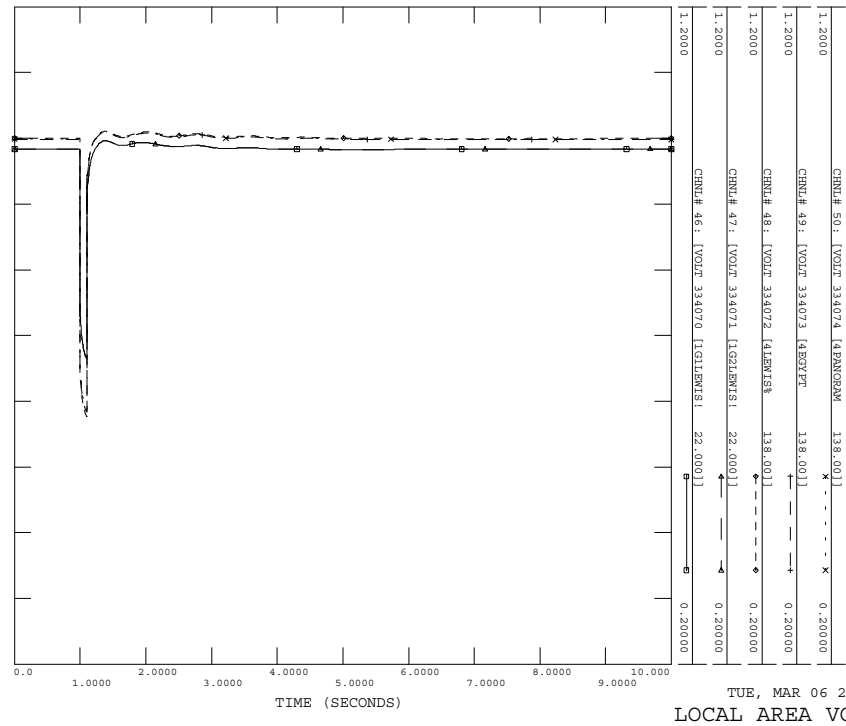
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 HIGHTOWER 138 KV  
 TRIP JACINTO -  
 FILE: Fault-10.OUT



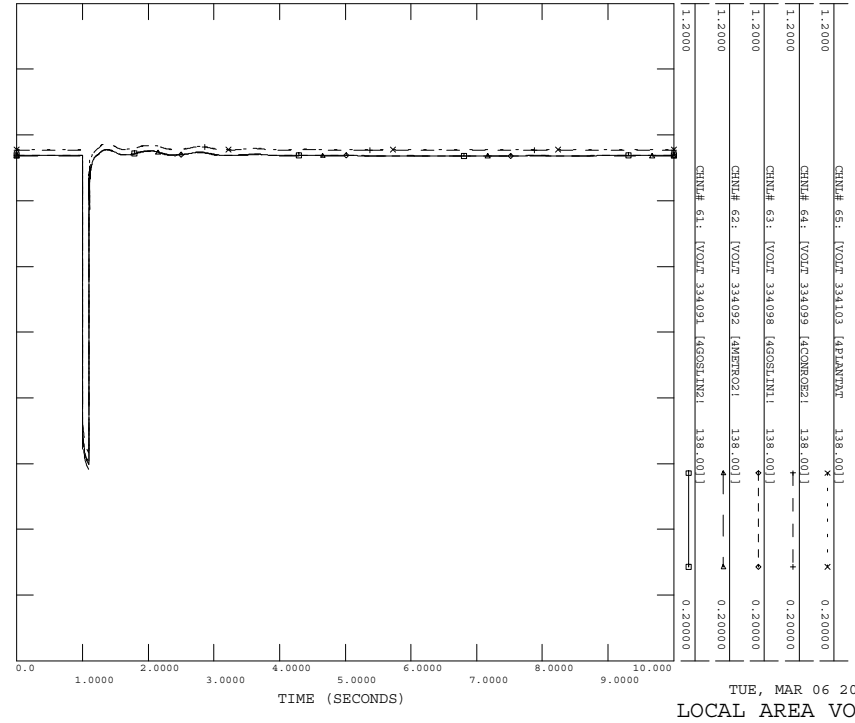
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 HIGHTOWER 138 KV  
 TRIP JACINTO -  
 FILE: Fault-10.OUT



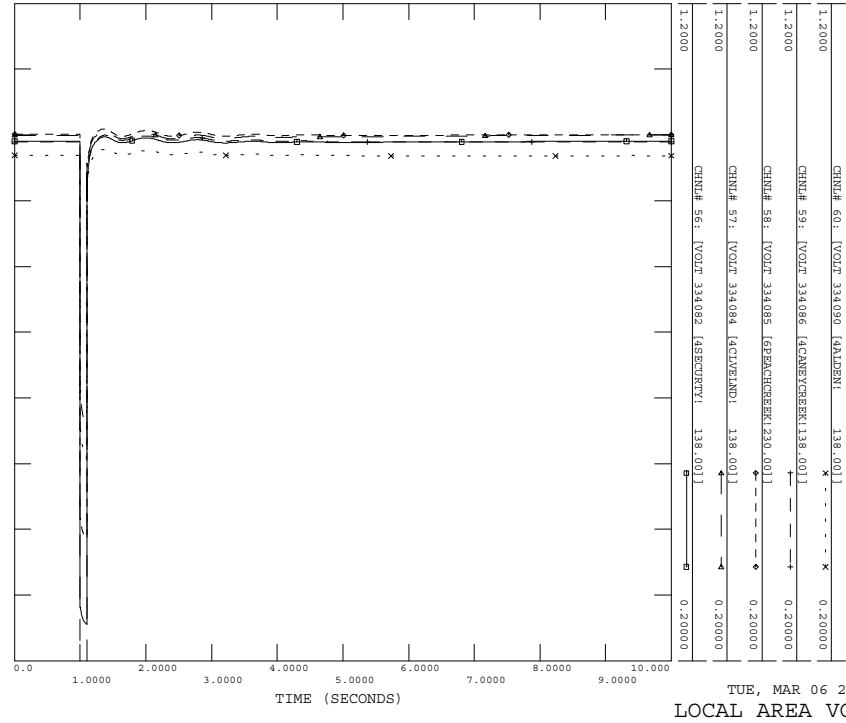
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 HIGHTOWER 138 KV  
 TRIP JACINTO -  
 FILE: Fault-10.OUT



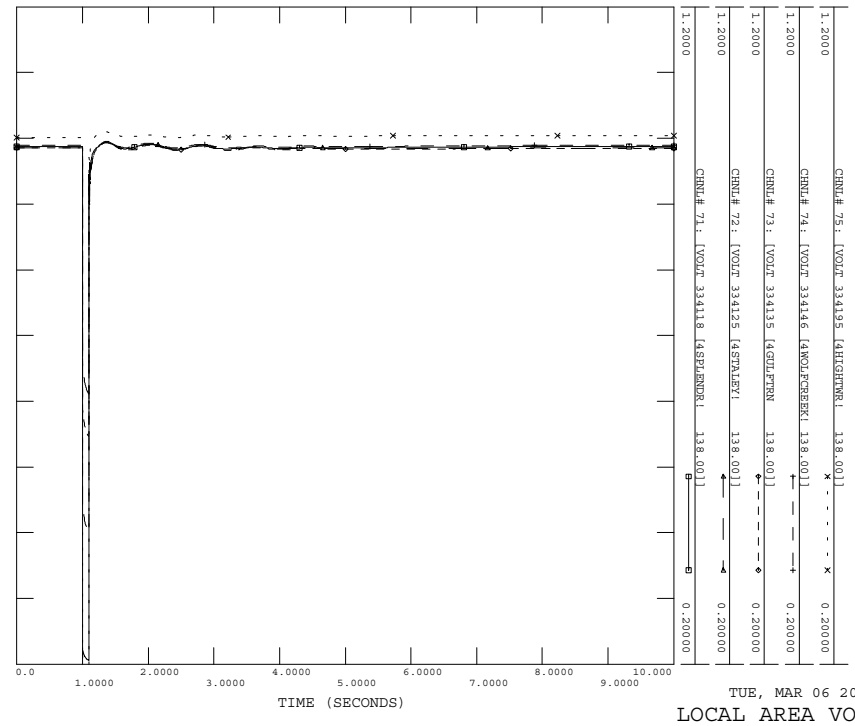
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 HIGHTOWER 138 KV  
 TRIP JACINTO -  
 FILE: Fault-10.OUT



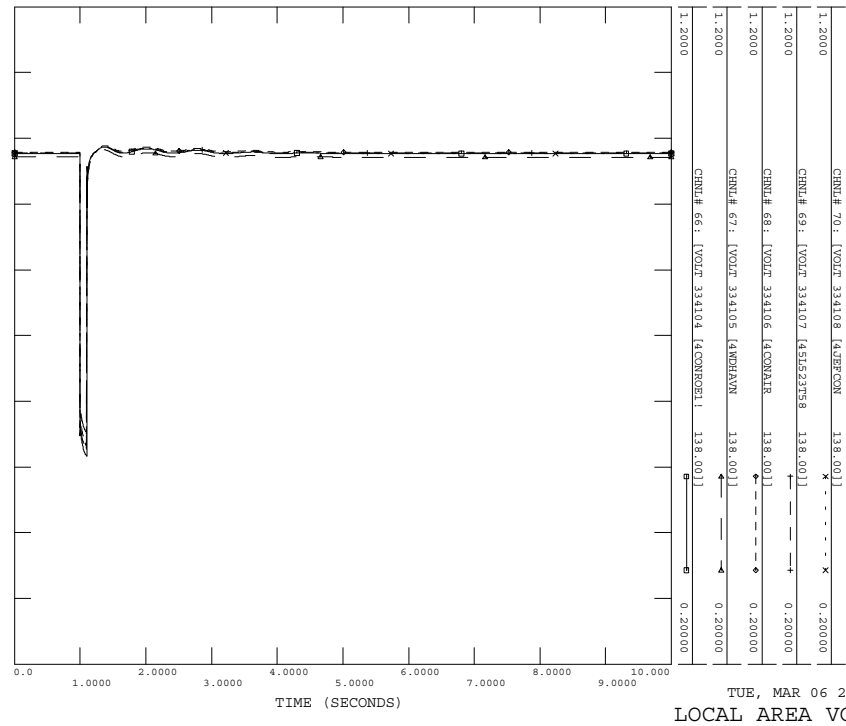
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 HIGHTOWER 138 KV  
 TRIP JACINTO -  
 FILE: Fault-10.OUT



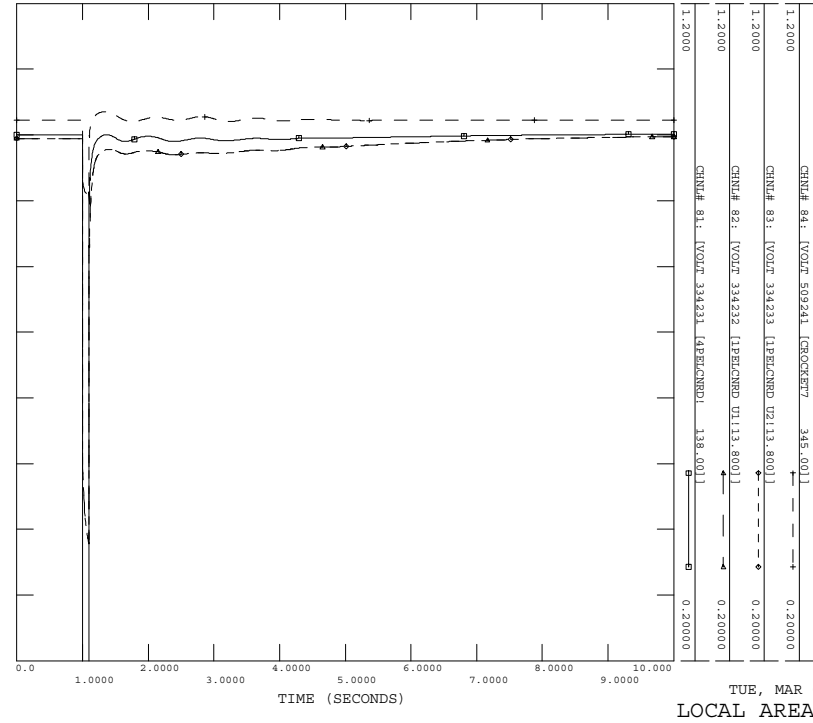
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 HIGHTOWER 138 KV  
 TRIP JACINTO -  
 FILE: Fault-10.OUT



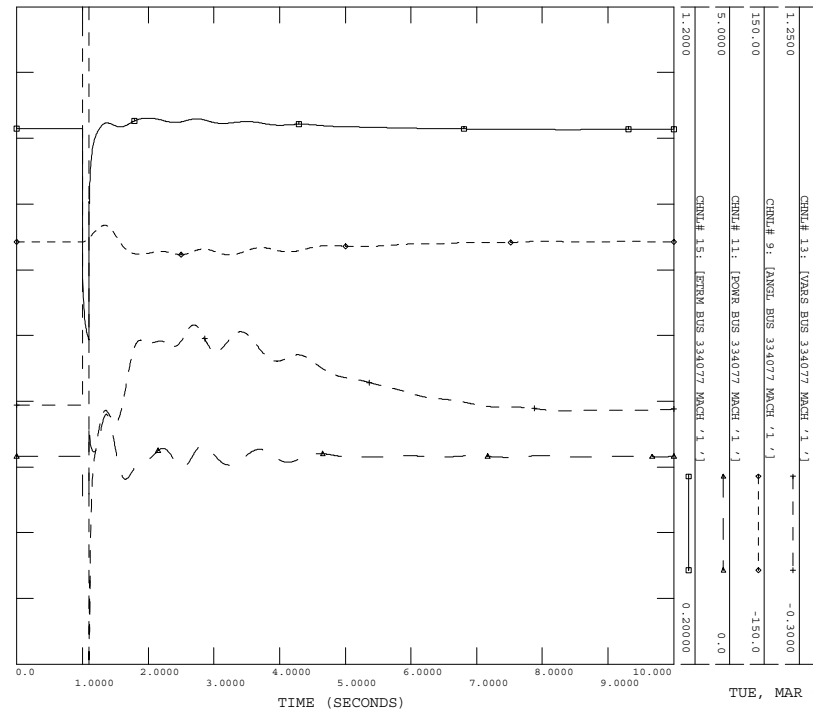
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 HIGHTOWER 138 KV  
 TRIP JACINTO -  
 FILE: Fault-10.OUT



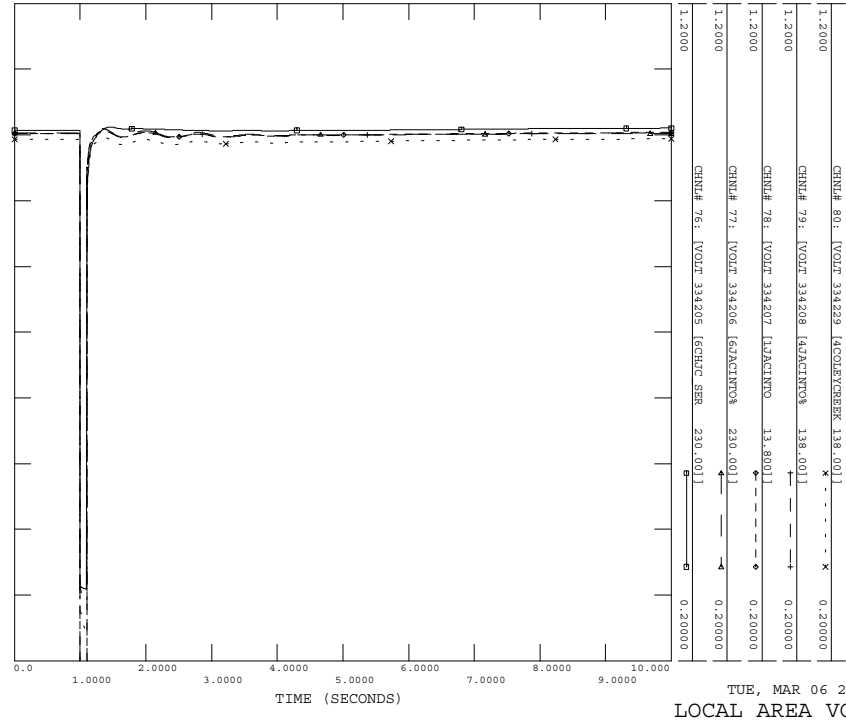
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



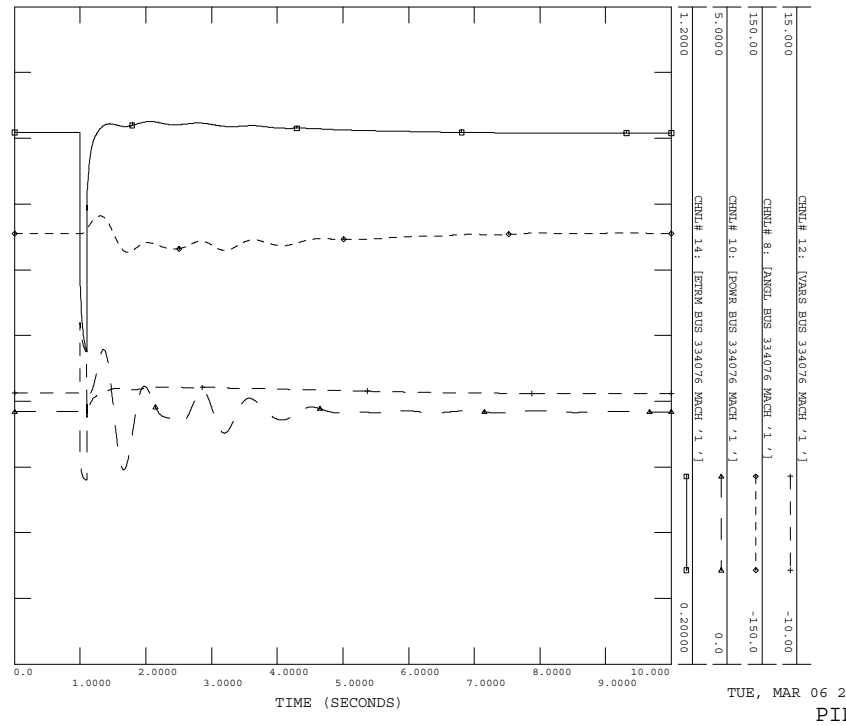
6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



6CY 3PH FAULT JACINTO - HIGHTOWER 138 KV  
 TRIP JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-10.OUT



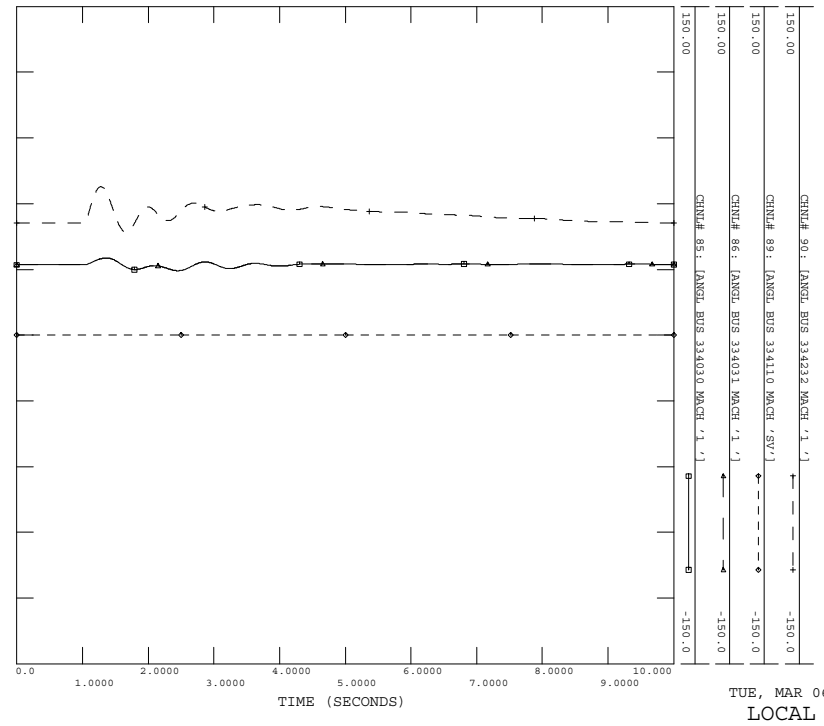


### **C.1.11 FAULT-11**

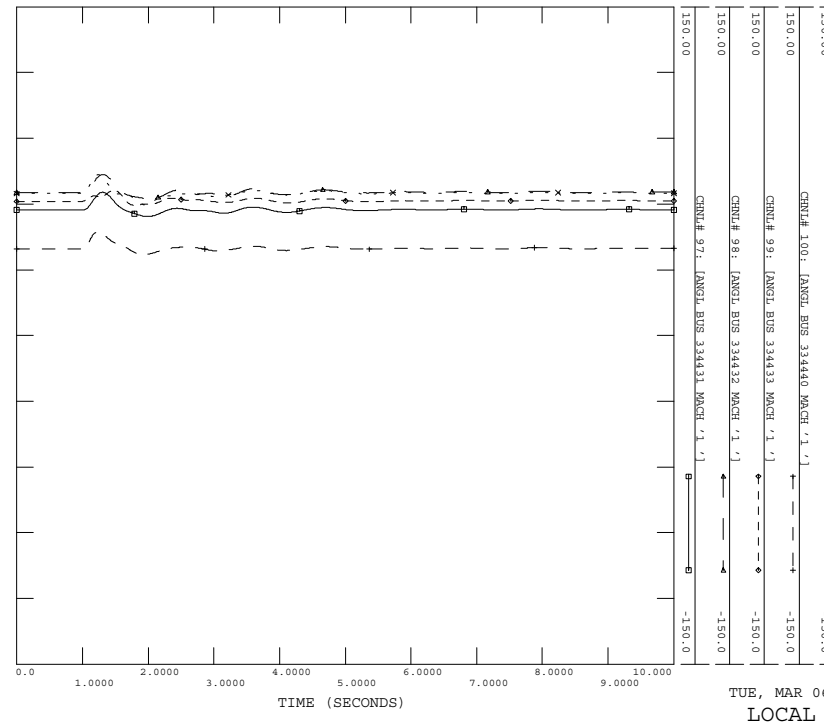
3 phase fault on the Jacinto 230/138 kV trafo

- a) Apply fault at Jacinto 138kV bus
- b) Clear fault after 6 cycles by tripping the Jacinto 230/138 kV trafo

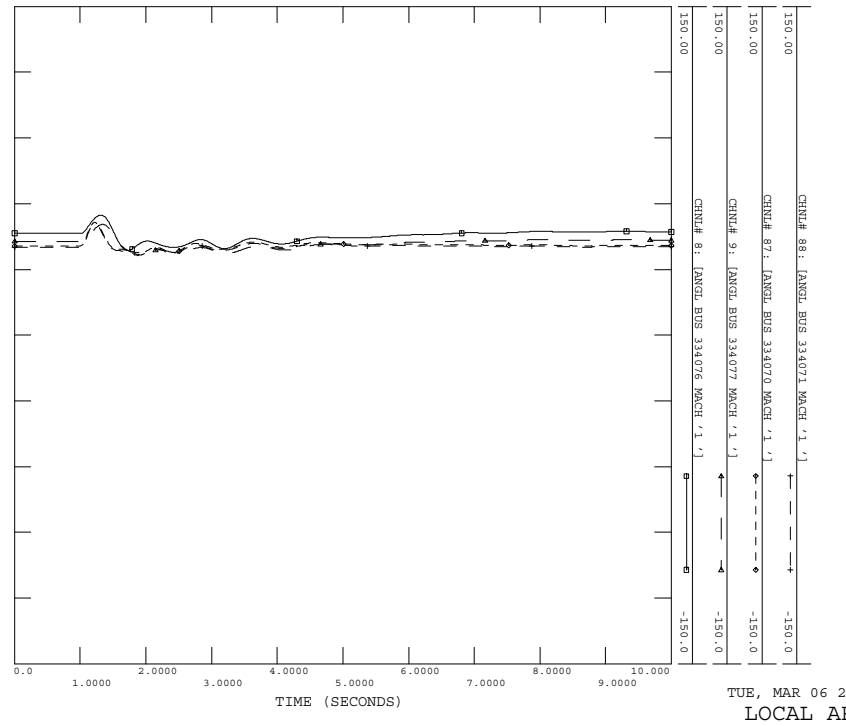
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



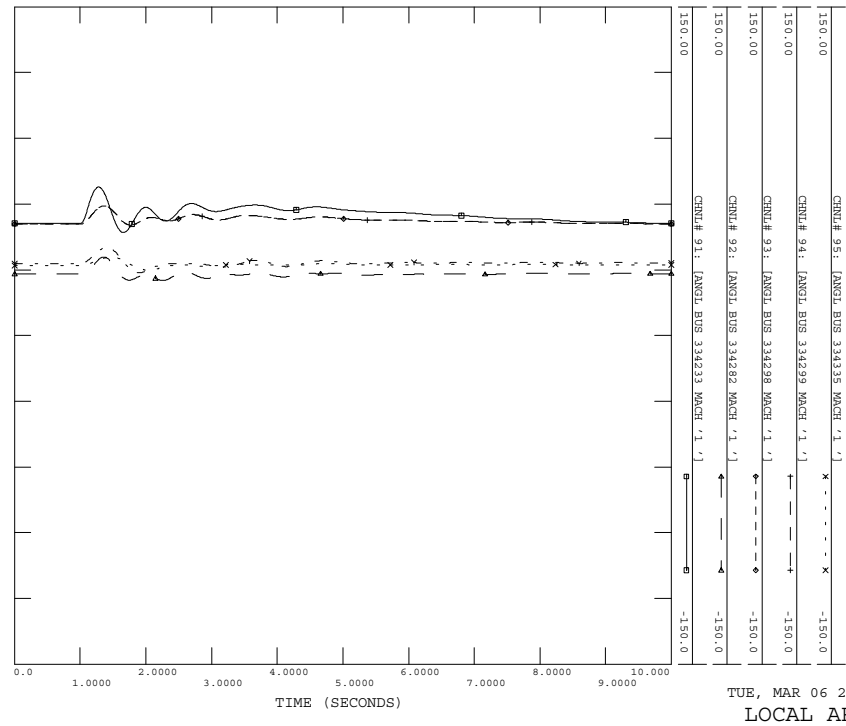
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



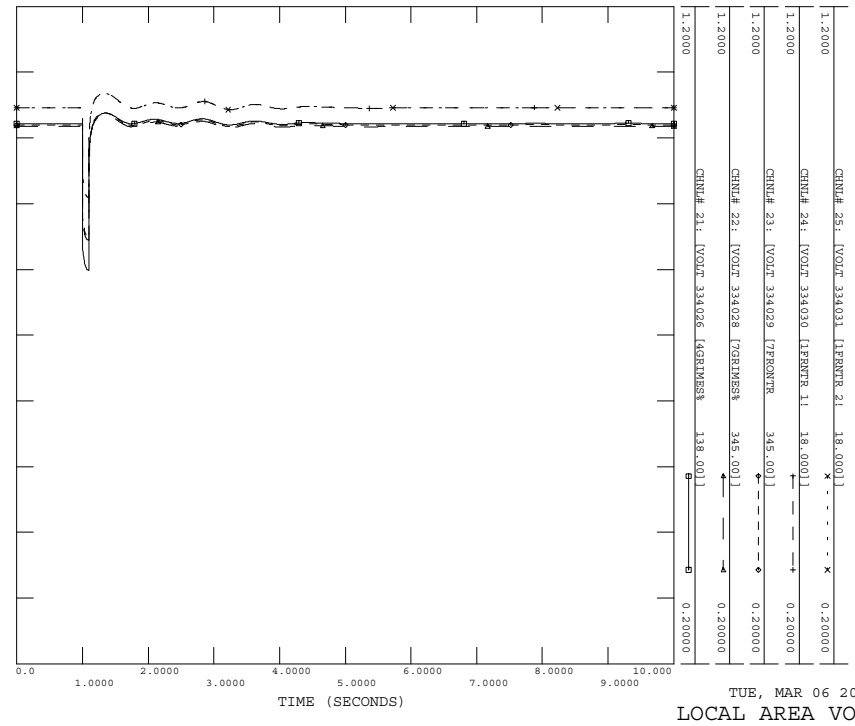
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



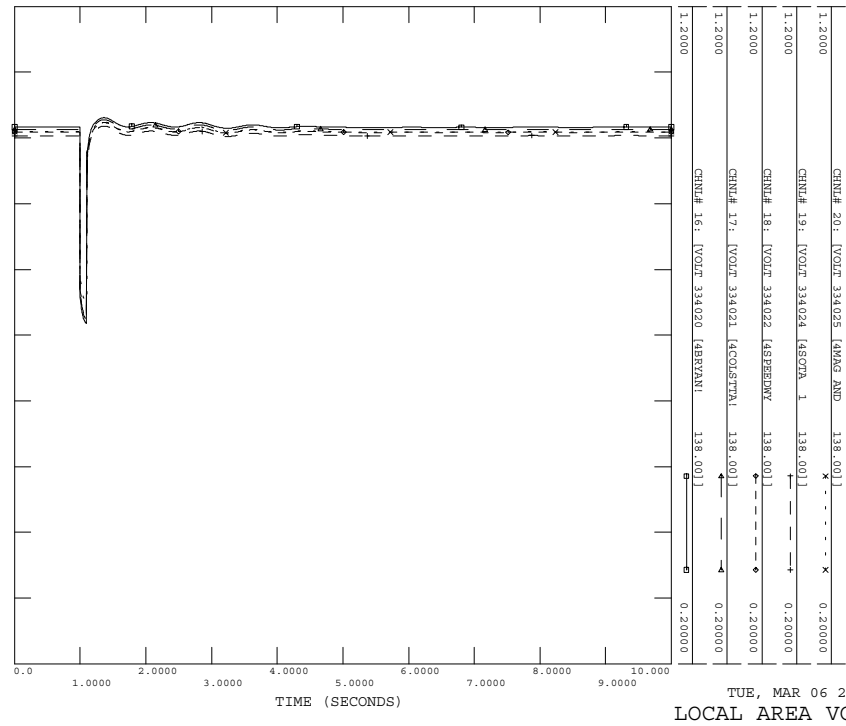
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



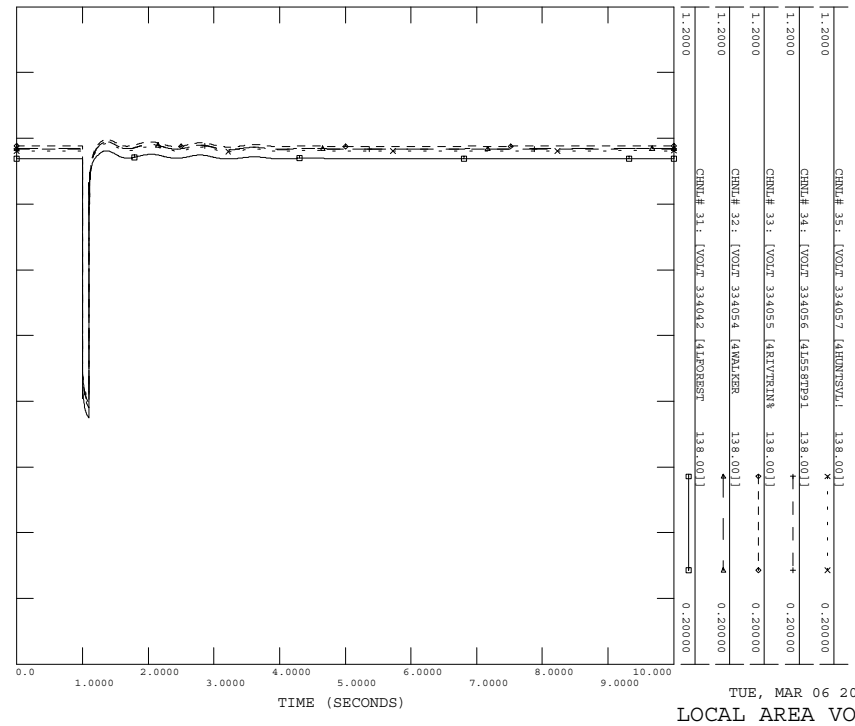
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



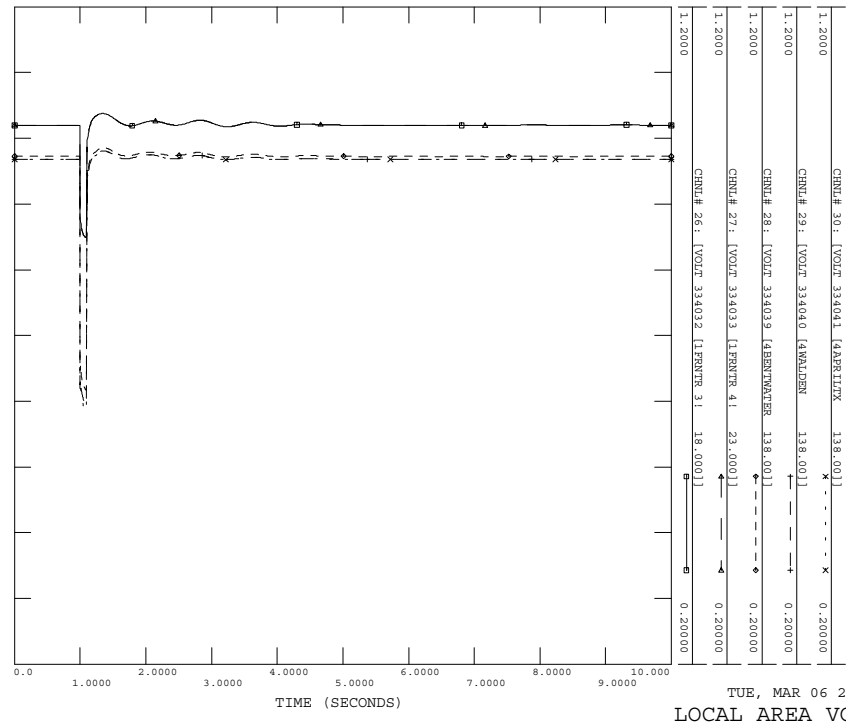
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



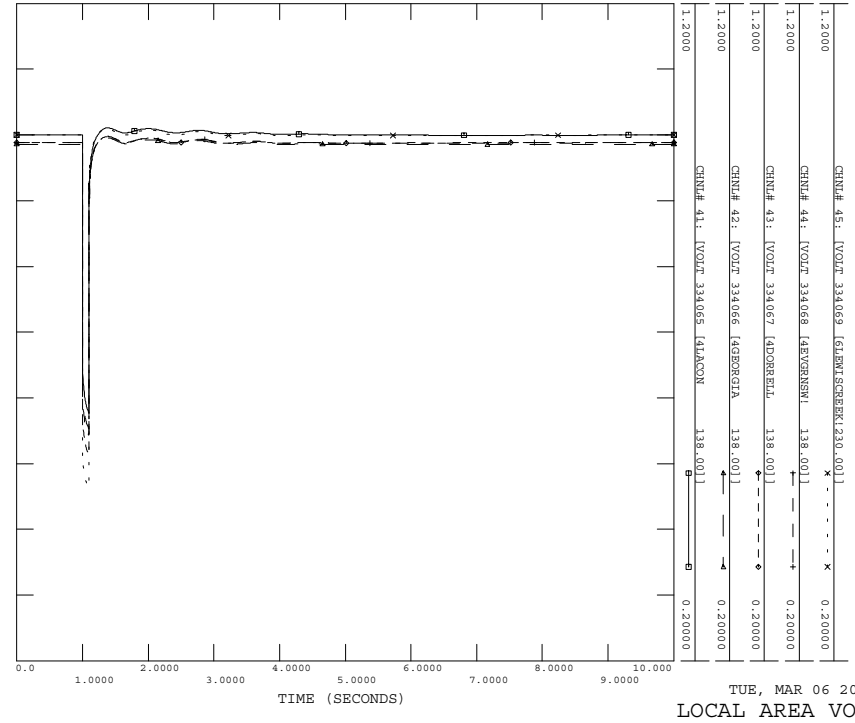
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



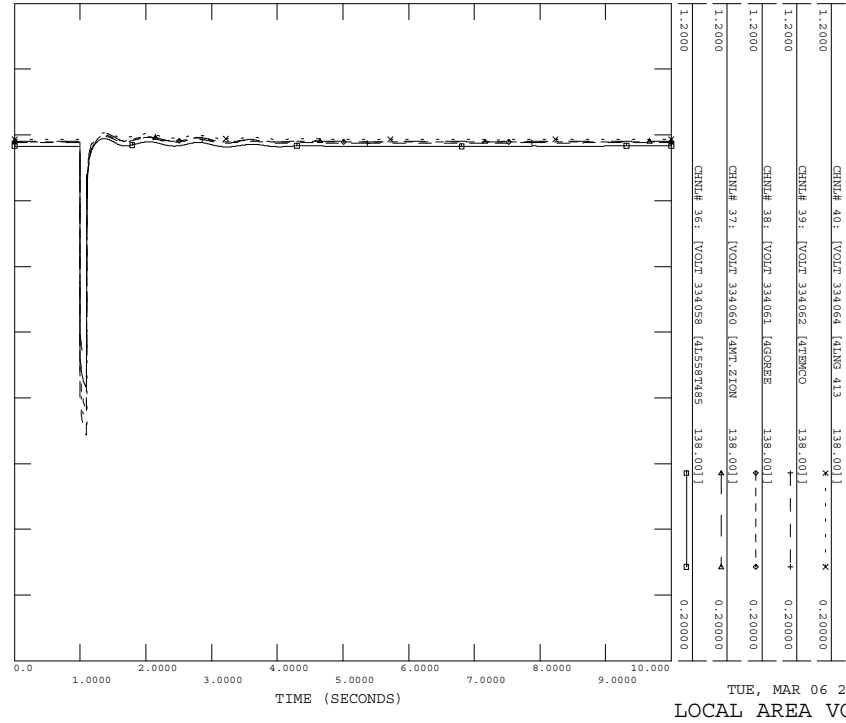
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



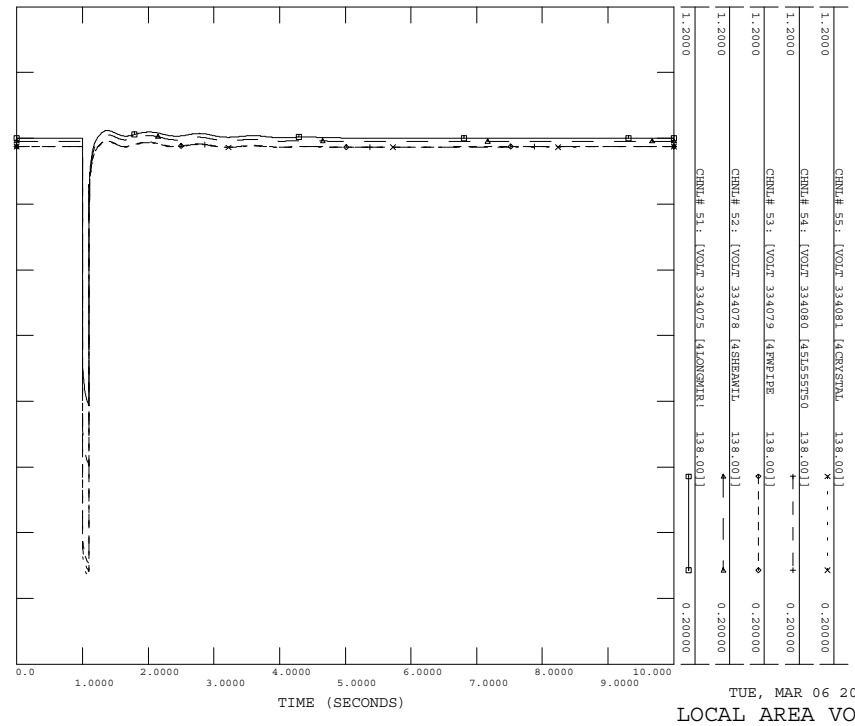
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



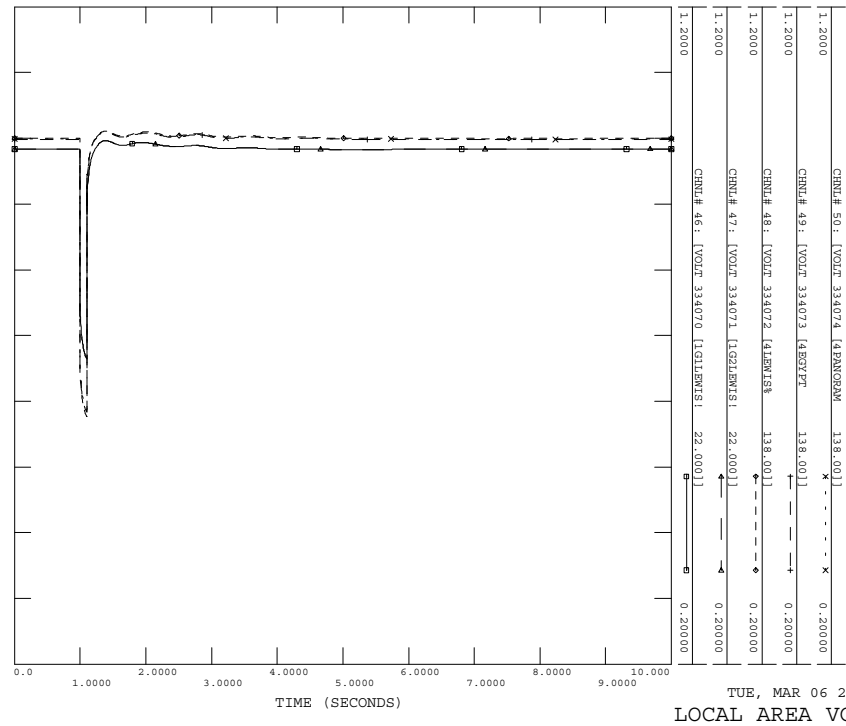
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT




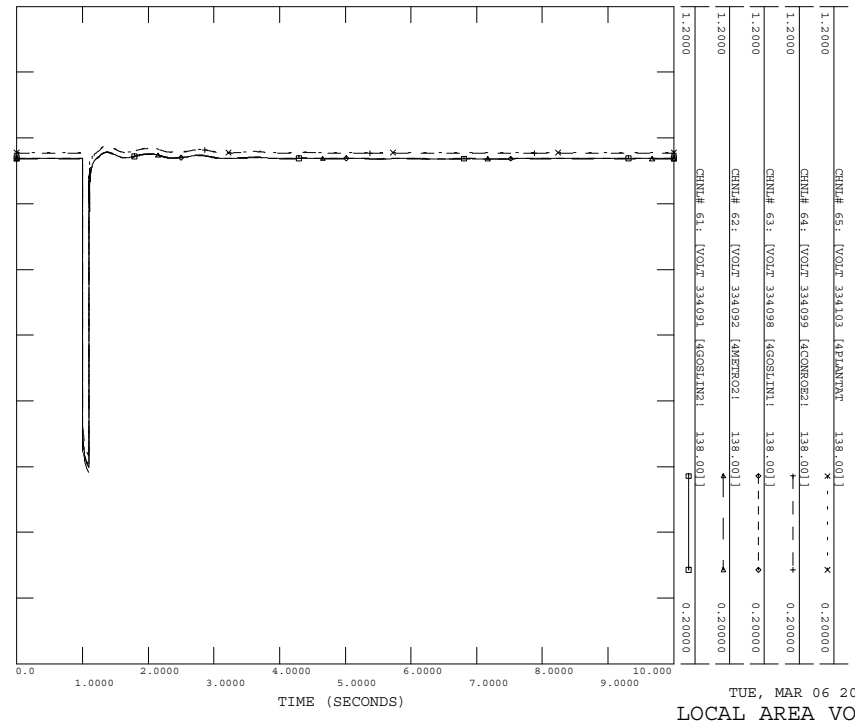
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT




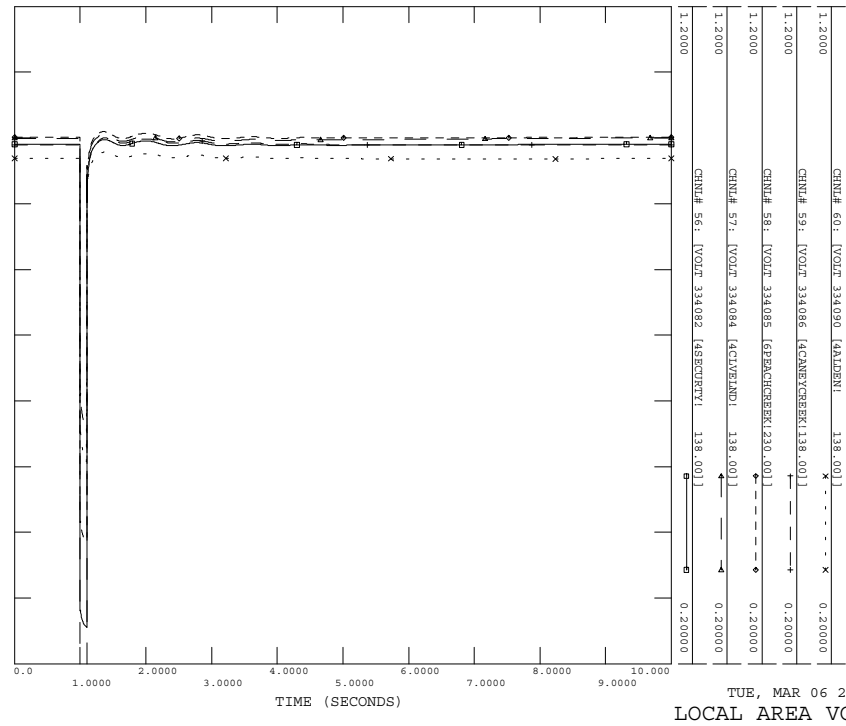
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT




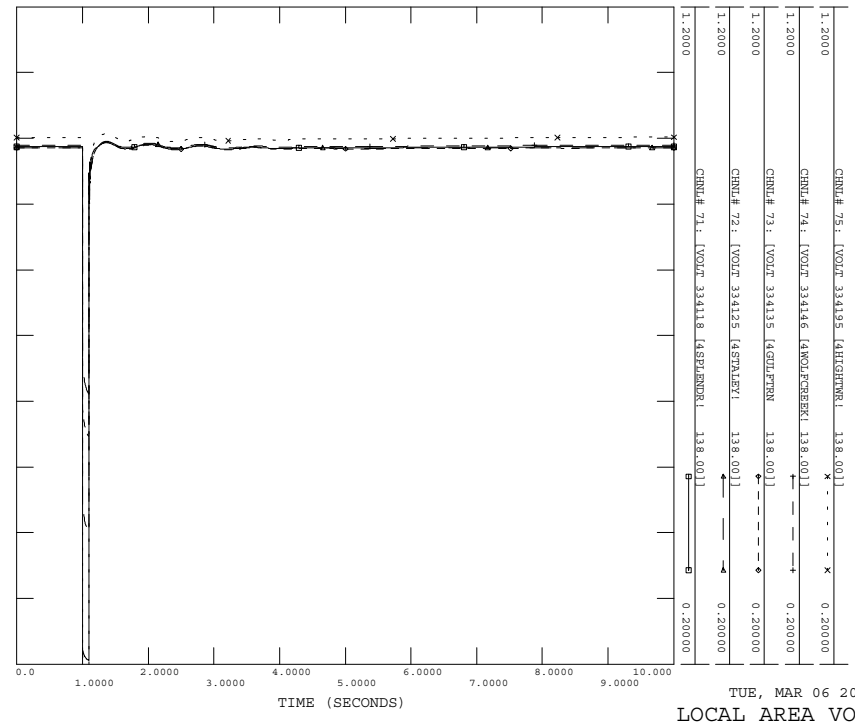

  
 6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT




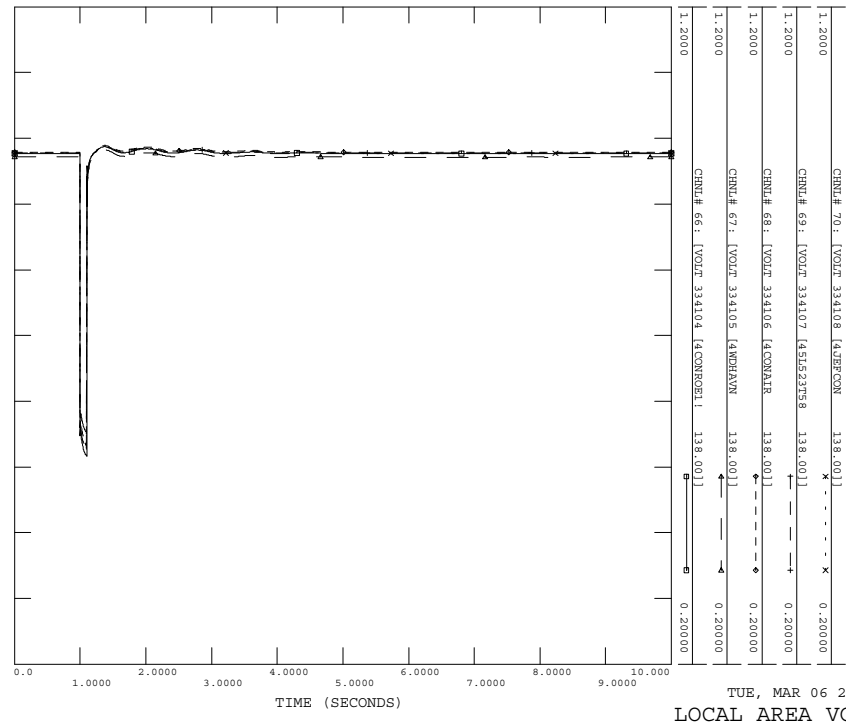

  
 6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



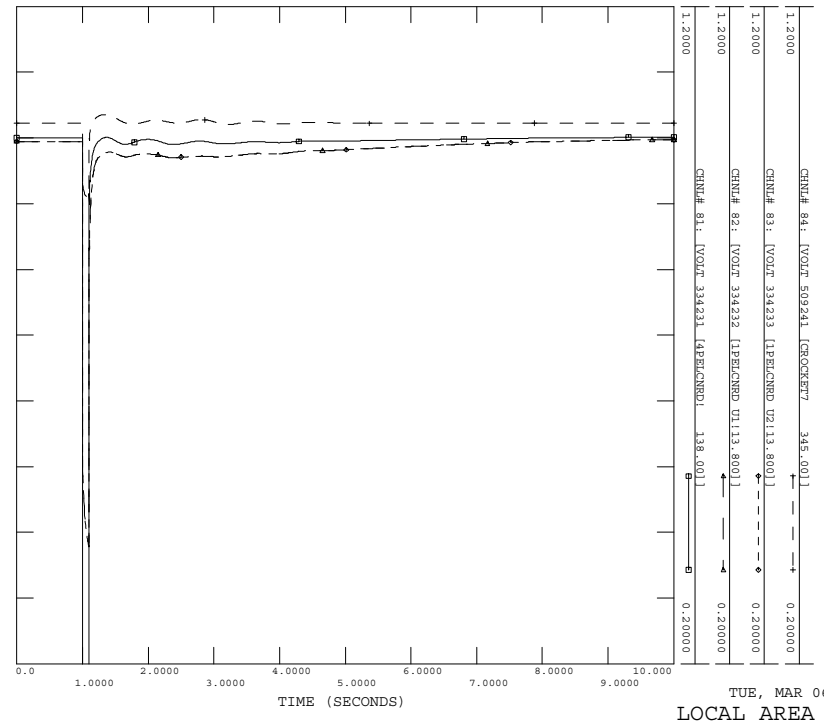

  
 6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



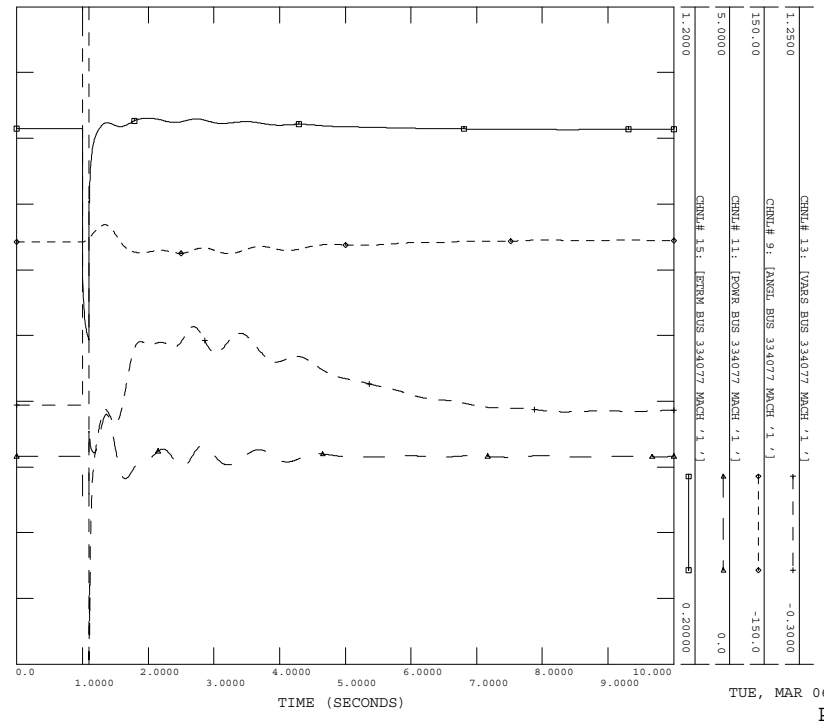

  
 6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



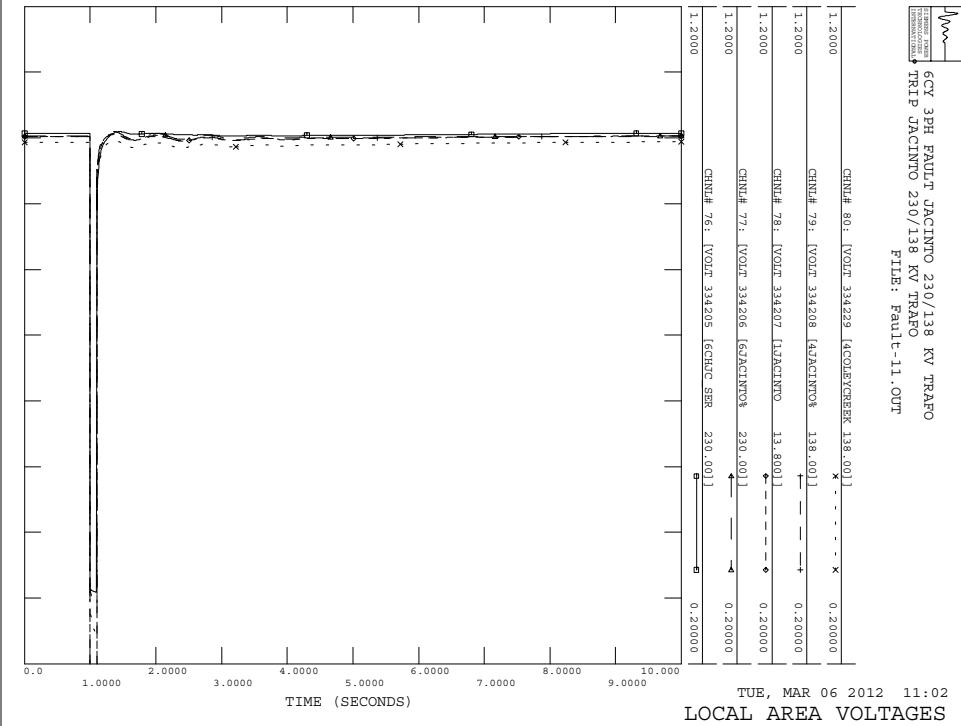
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



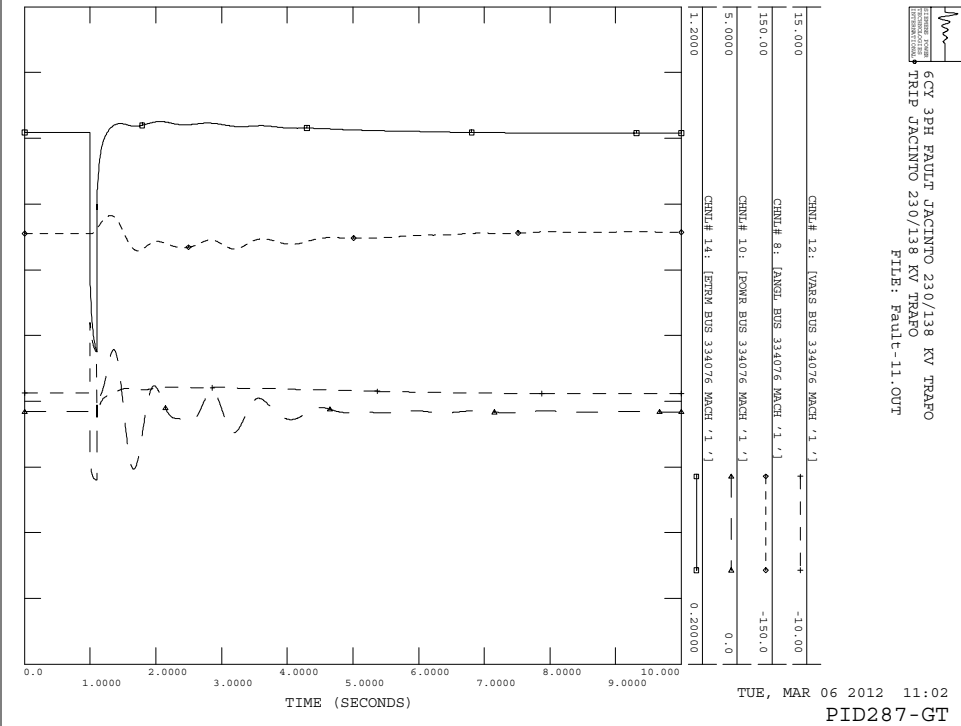
6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT



6CY 3PH FAULT JACINTO 230/138 KV TRAF0  
 TRIP JACINTO 230/138 KV TRAF0  
 FILE: Fault-11.OUT

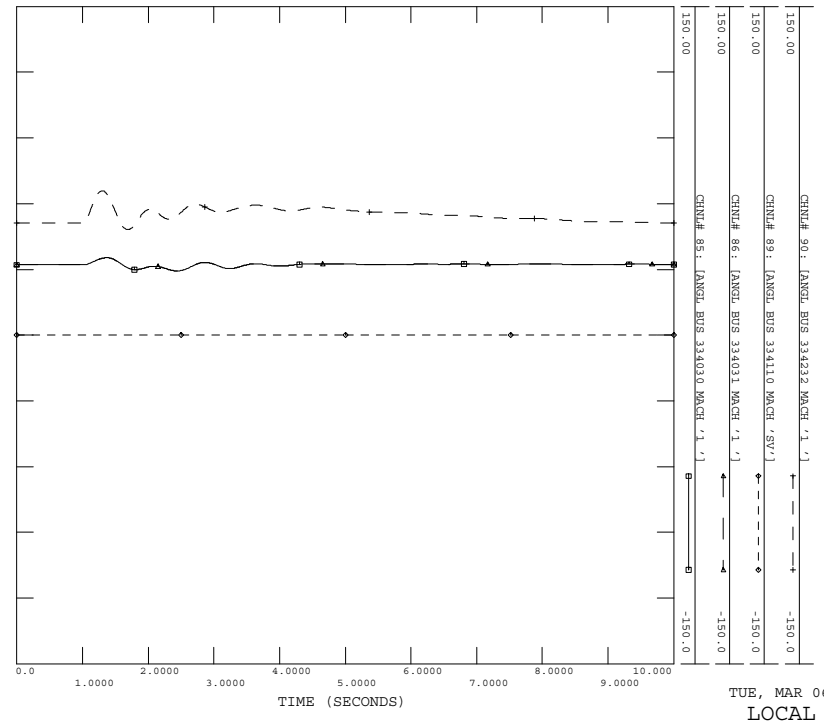


### **C.1.12      FAULT-12**

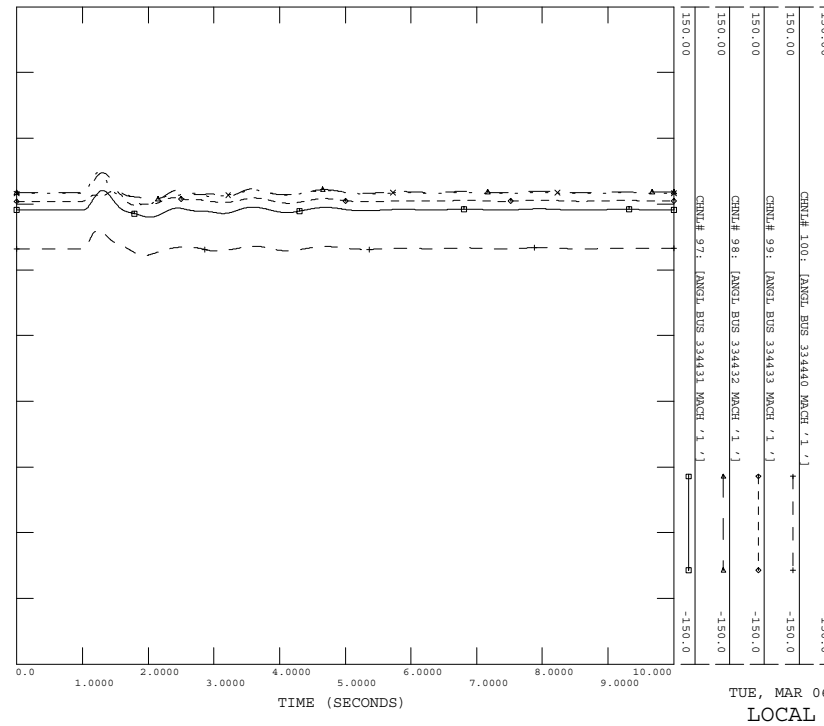
3 phase fault on the Jacinto – Peach Creek 230 kV

- a) Apply fault at Jacinto 230kV bus
- b) Clear fault after 6 cycles by tripping the Jacinto – Peach Creek 230 kV

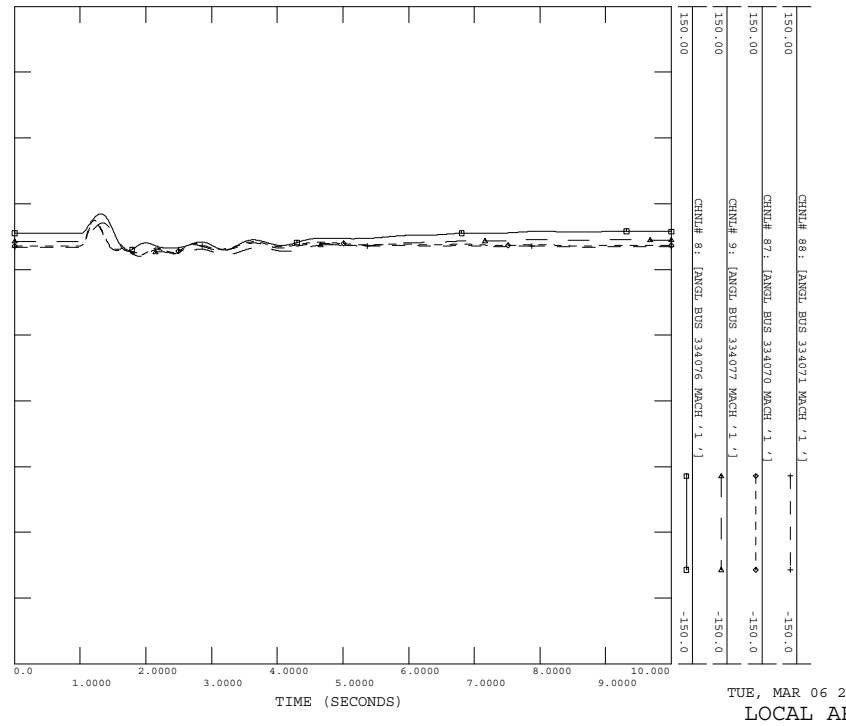
6CY 3PH FAULT JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK 230 KV  
 FILE: Fault-12.OUT



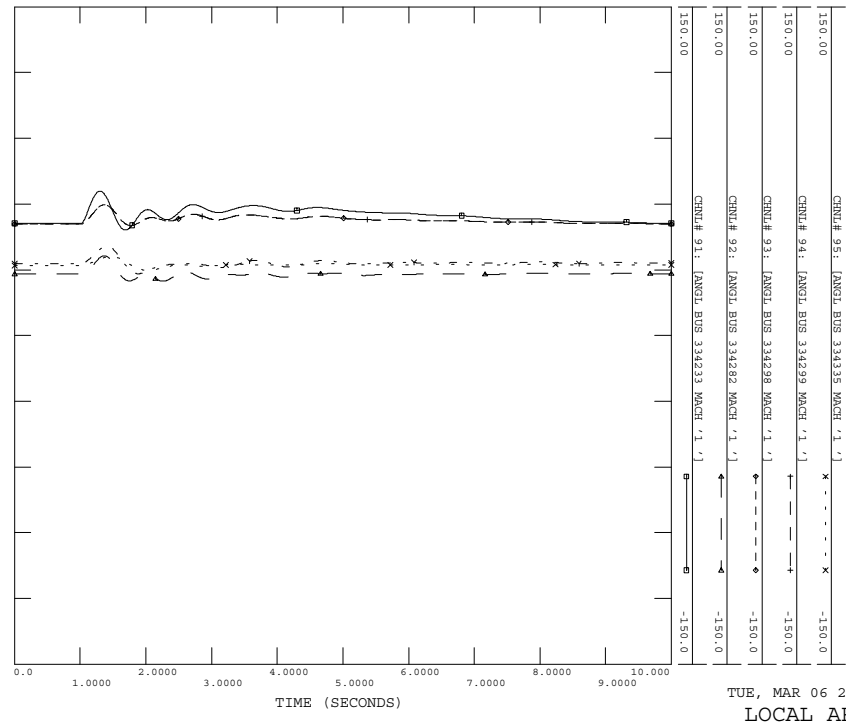
6CY 3PH FAULT JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK 230 KV  
 FILE: Fault-12.OUT



6CY 3PH FAULT JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK 230 KV  
 FILE: Fault-12.OUT

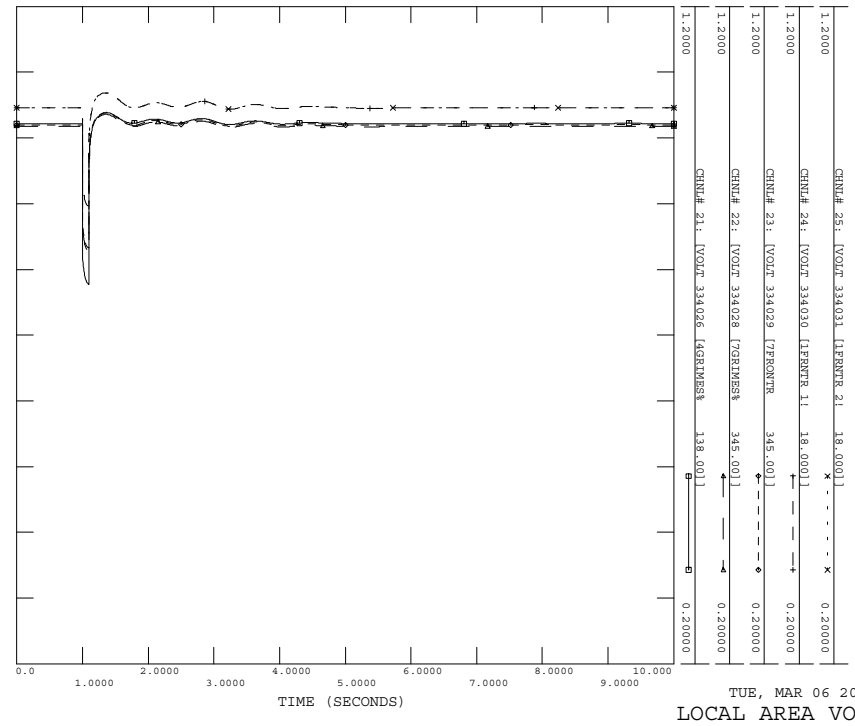


6CY 3PH FAULT JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK 230 KV  
 FILE: Fault-12.OUT

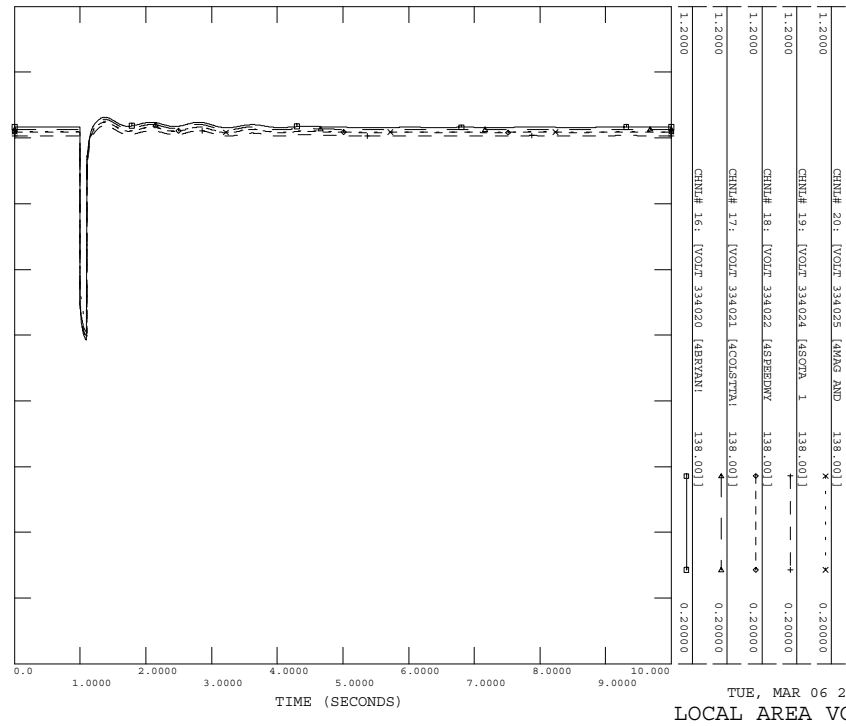




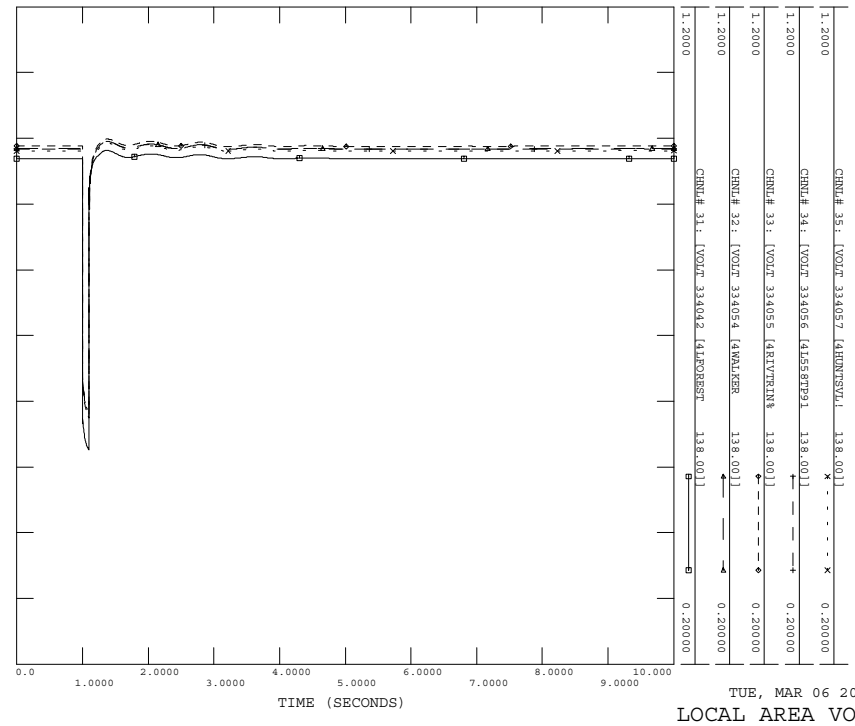
6CY 3PH FAULT JACINTO - BRACH CREEK 230 KV  
 TRIP JACINTO - BRACH CREEK 230 KV  
 FILE: Fault-12.OUT



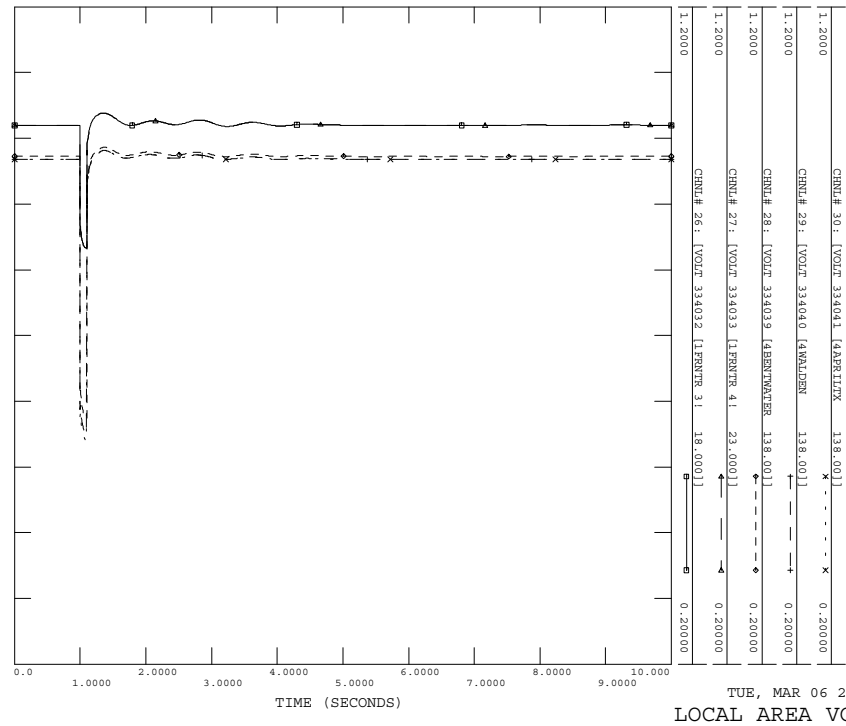
6CY 3PH FAULT JACINTO - BRACH CREEK 230 KV  
 TRIP JACINTO - BRACH CREEK 230 KV  
 FILE: Fault-12.OUT



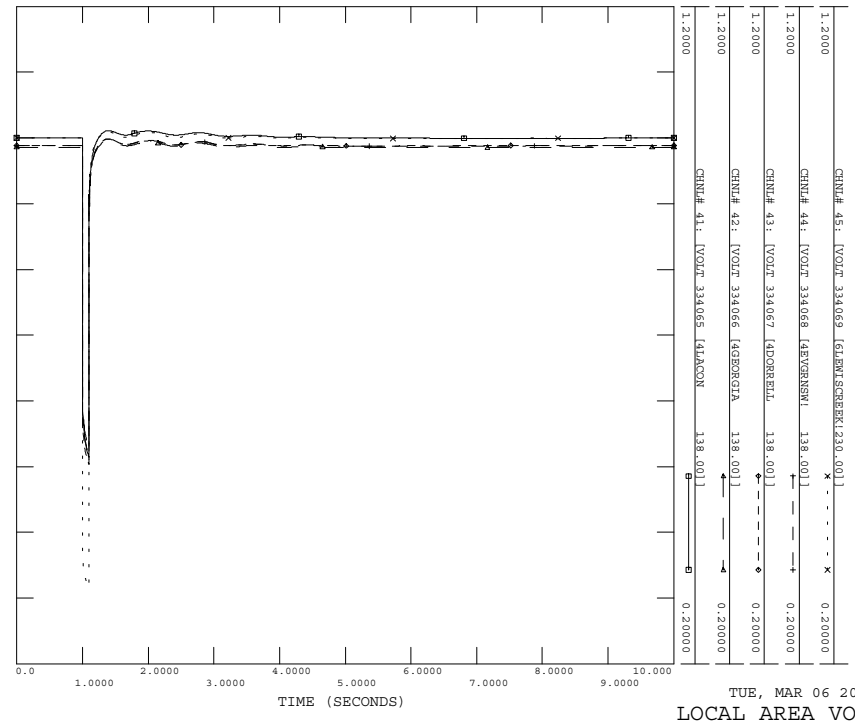
6CY 3PH FAULT JACINTO - BRACH CREEK 230 KV  
 TRIP JACINTO - BRACH CREEK 230 KV  
 FILE: Fault-12.OUT



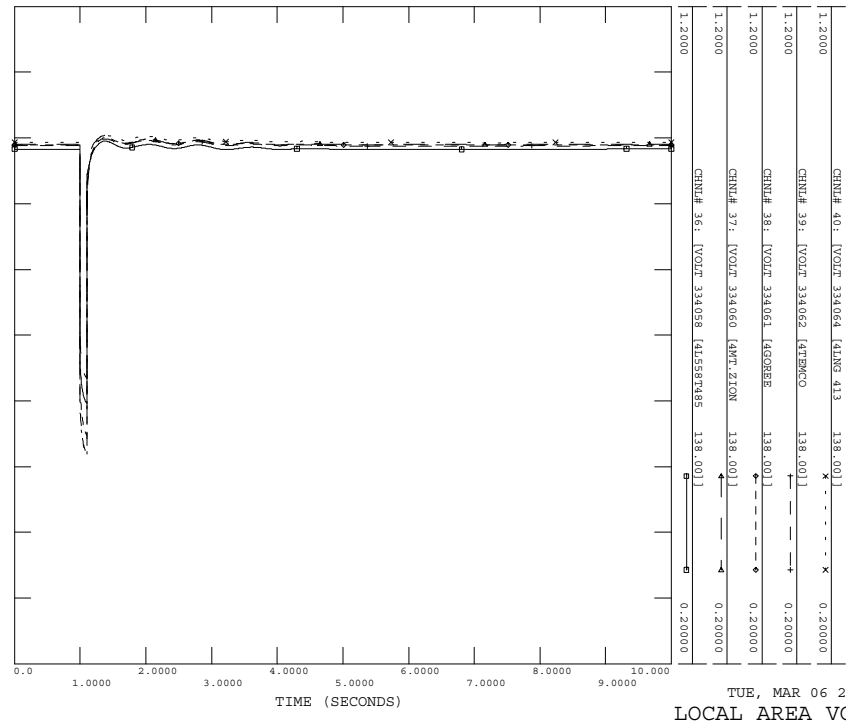
6CY 3PH FAULT JACINTO - BRACH CREEK 230 KV  
 TRIP JACINTO - BRACH CREEK 230 KV  
 FILE: Fault-12.OUT



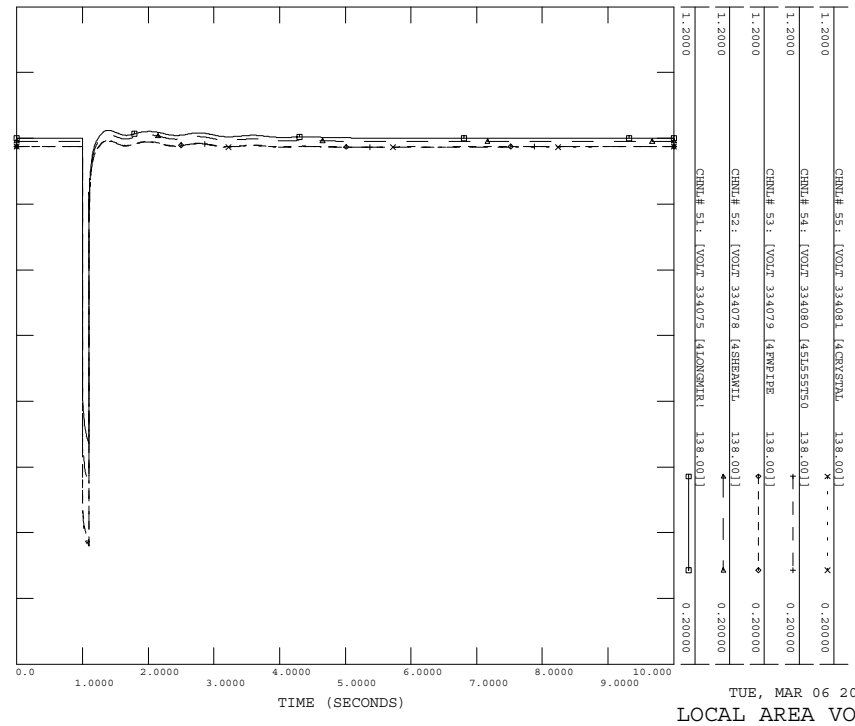
6CY 3PH FAULT JACINTO - BEACH CREEK 230 KV  
 TRIP JACINTO - BEACH CREEK 230 KV  
 FILE: Fault-12.OUT



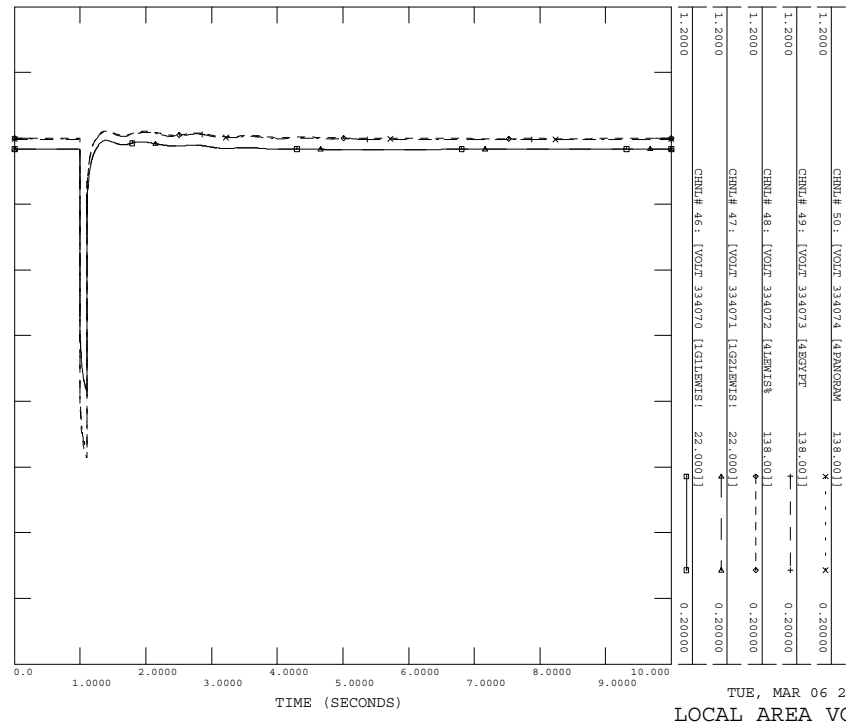
6CY 3PH FAULT JACINTO - BEACH CREEK 230 KV  
 TRIP JACINTO - BEACH CREEK 230 KV  
 FILE: Fault-12.OUT



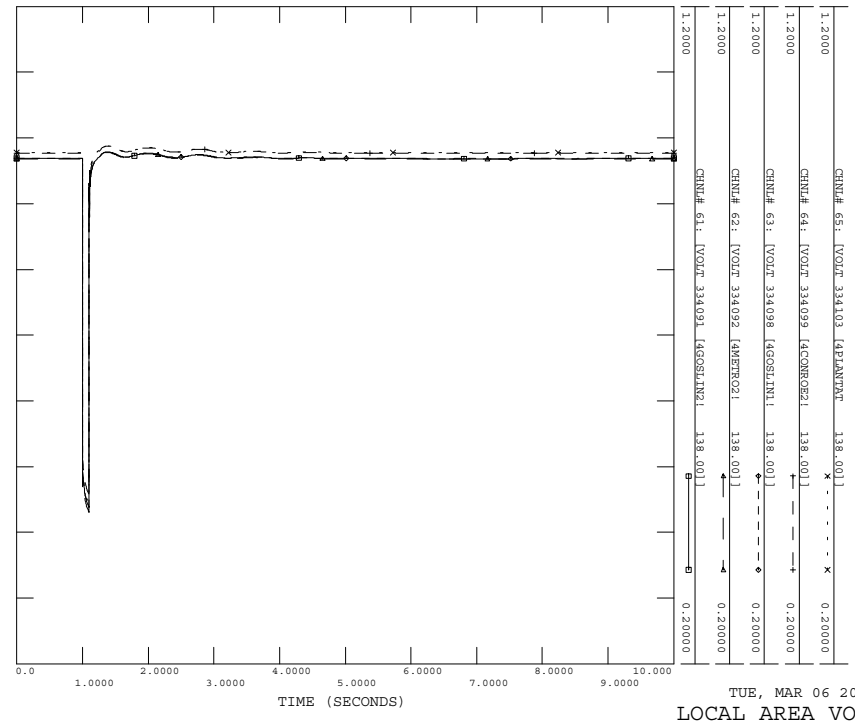
6CY 3PH FAULT JACINTO - BEACH CREEK 230 KV  
 TRIP JACINTO - BEACH CREEK 230 KV  
 FILE: Fault-12.OUT



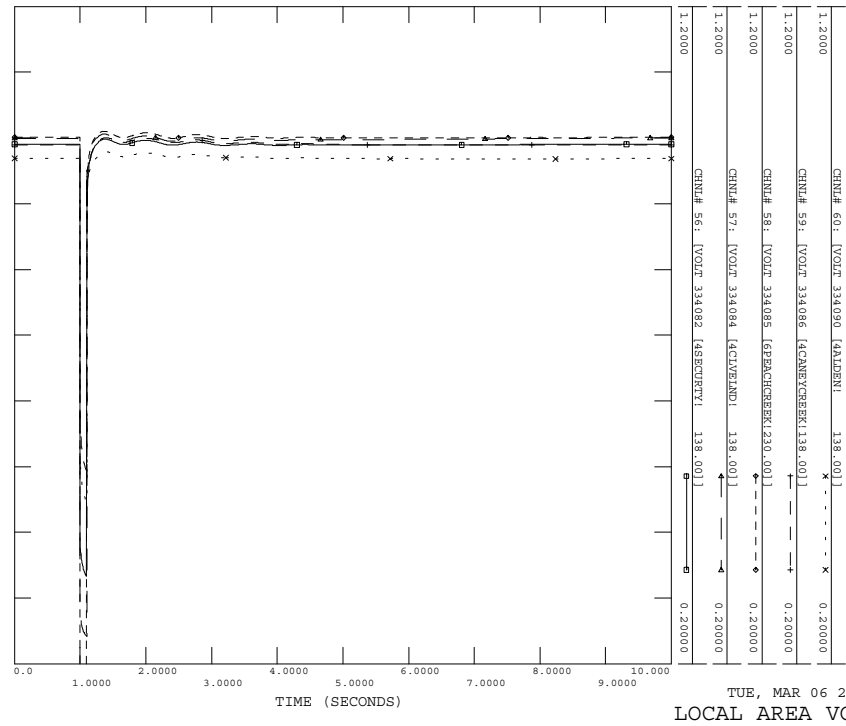
6CY 3PH FAULT JACINTO - BEACH CREEK 230 KV  
 TRIP JACINTO - BEACH CREEK 230 KV  
 FILE: Fault-12.OUT



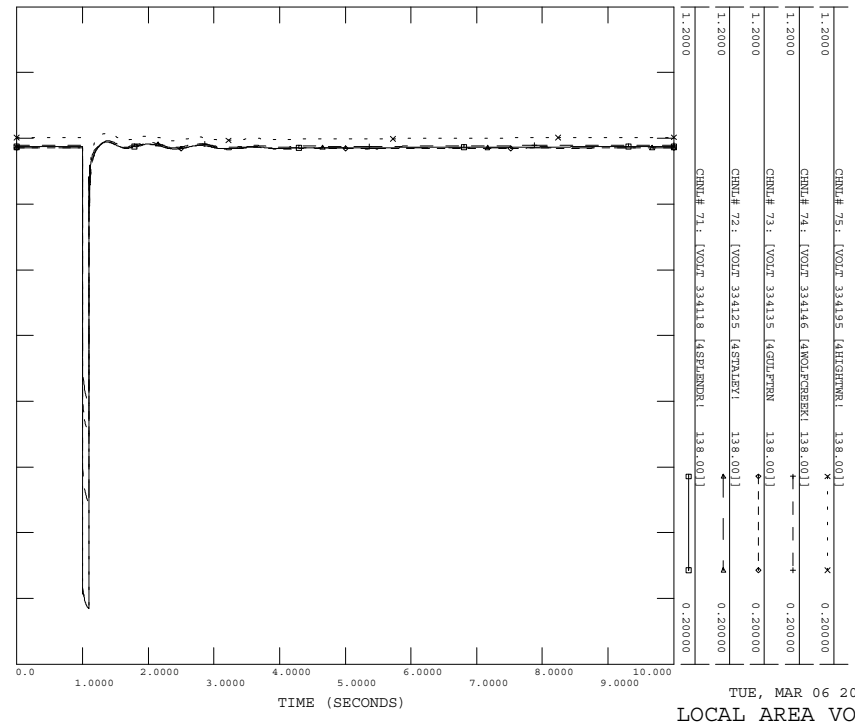
6CY 3PH FAULT JACINTO - BEACH CREEK 230 KV  
 TRIP JACINTO - BEACH CREEK 230 KV  
 FILE: Fault-12.OUT



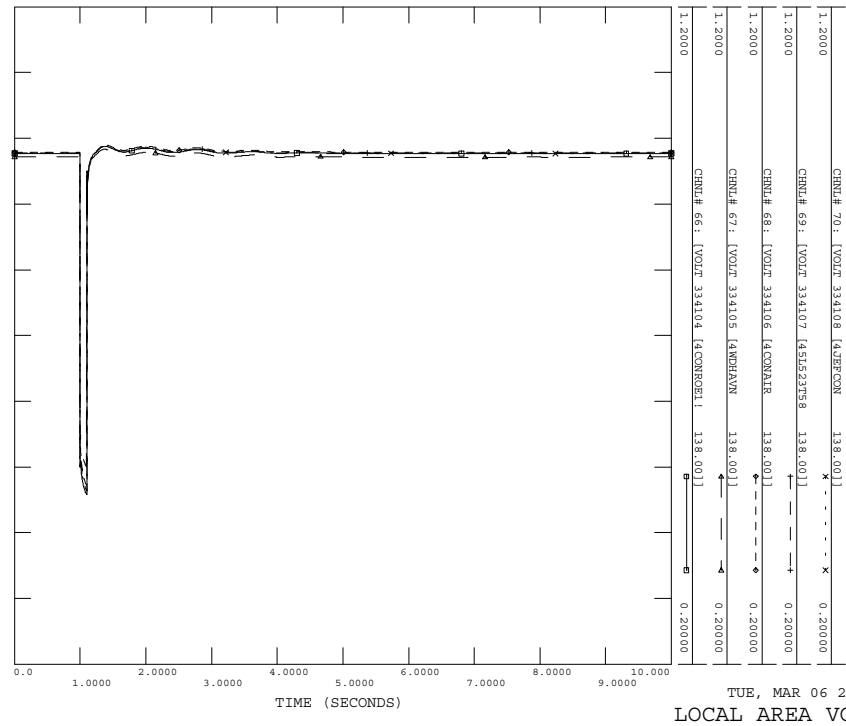
6CY 3PH FAULT JACINTO - BEACH CREEK 230 KV  
 TRIP JACINTO - BEACH CREEK 230 KV  
 FILE: Fault-12.OUT



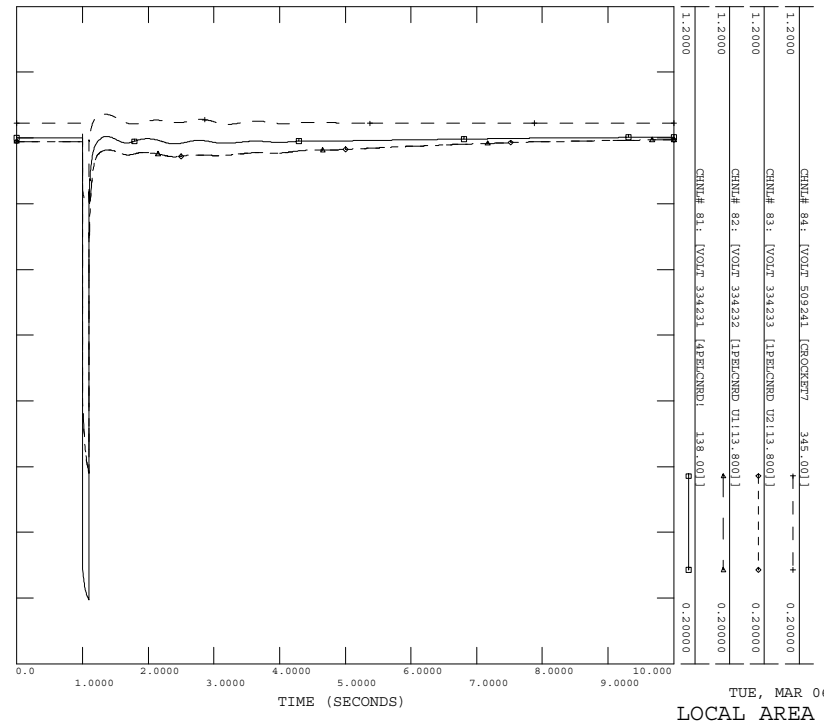
6CY 3PH FAULT JACINTO - BEACH CREEK 230 KV  
 TRIP JACINTO - BEACH CREEK 230 KV  
 FILE: Fault-12.OUT



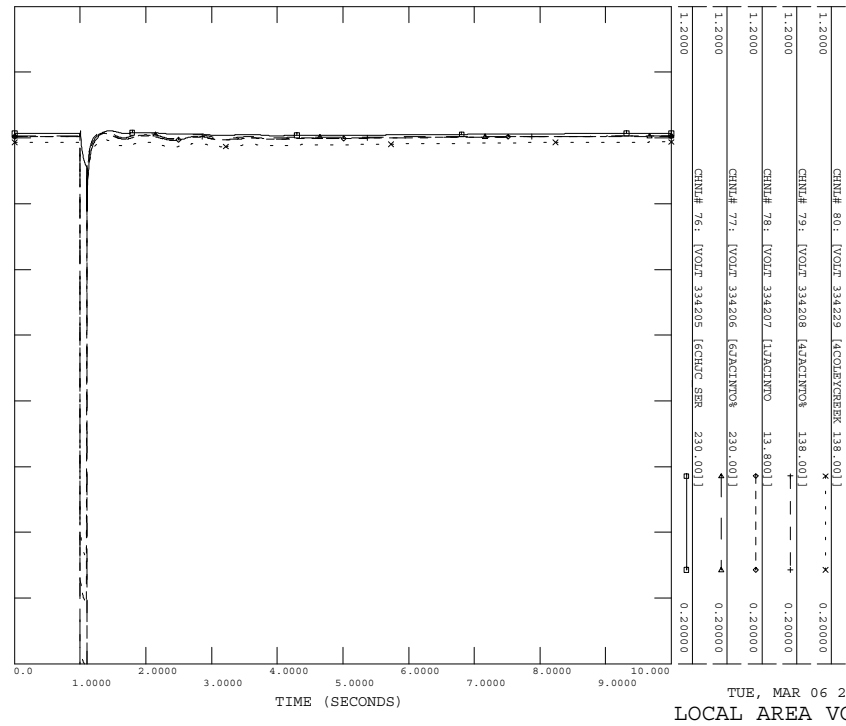
6CY 3PH FAULT JACINTO - BEACH CREEK 230 KV  
 TRIP JACINTO - BEACH CREEK 230 KV  
 FILE: Fault-12.OUT



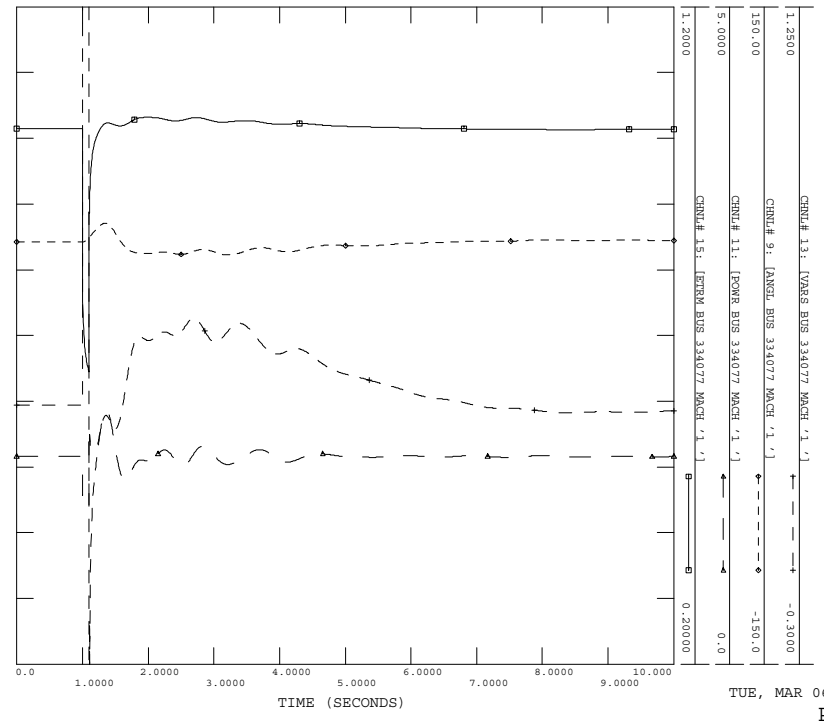
6CY 3PH FAULT JACINTO - PEACH CREEK 230 KV  
 BEACH CREEK 230 KV  
 TRIP JACINTO -  
 FILE: Fault-12.OUT



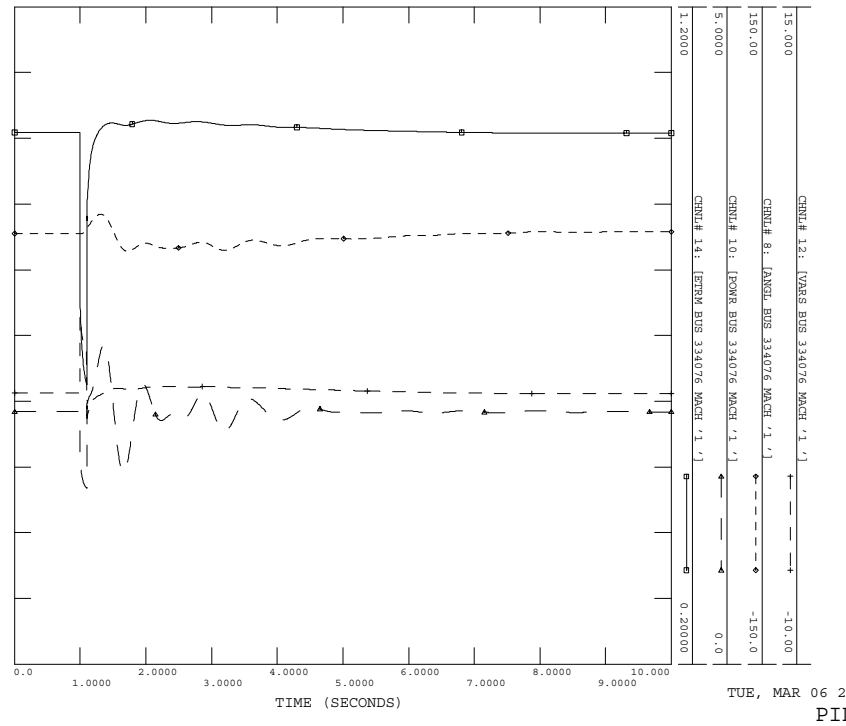
6CY 3PH FAULT JACINTO - PEACH CREEK 230 KV  
 BEACH CREEK 230 KV  
 TRIP JACINTO -  
 FILE: Fault-12.OUT



6CY 3PH FAULT JACINTO - PEACH CREEK 230 KV  
 BEACH CREEK 230 KV  
 TRIP JACINTO -  
 FILE: Fault-12.OUT



6CY 3PH FAULT JACINTO - PEACH CREEK 230 KV  
 BEACH CREEK 230 KV  
 TRIP JACINTO -  
 FILE: Fault-12.OUT

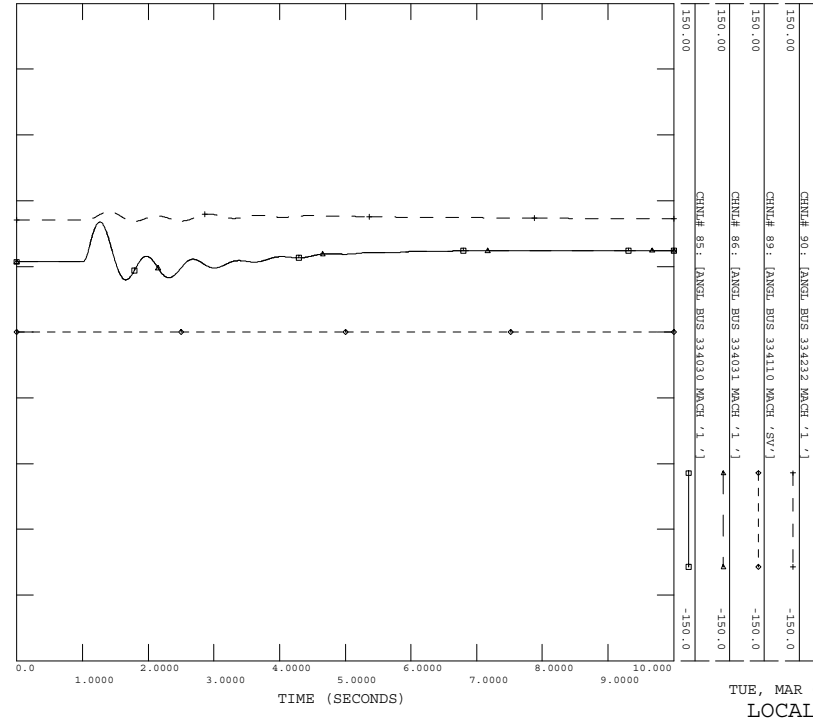


### **C.1.13      FAULT-13**

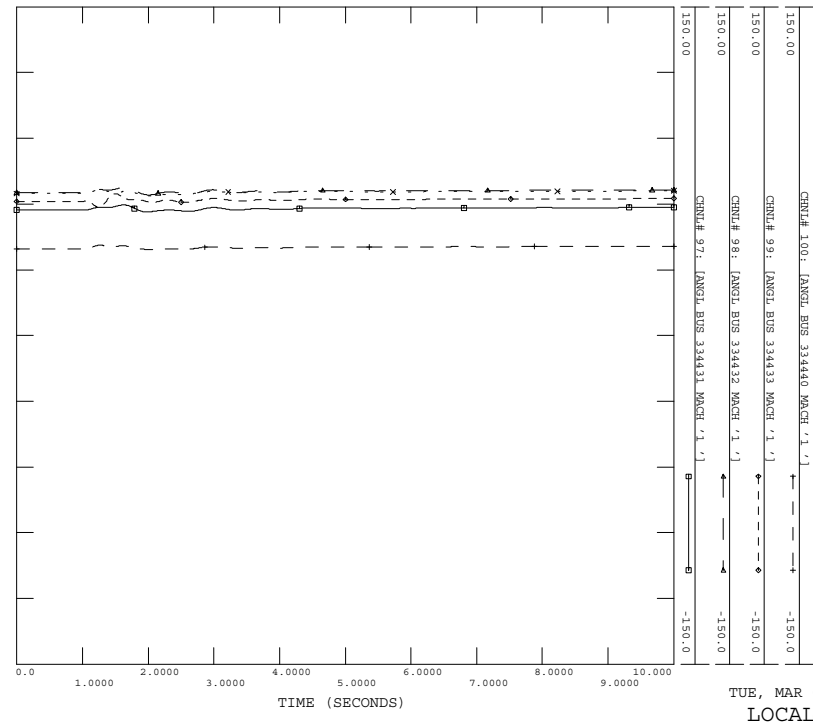
3 phase fault on the Grimes – Huntsville 138 kV

- a) Apply fault at Grimes 138kV bus
- b) Clear fault after 6 cycles by tripping the Grimes – Huntsville 138 kV

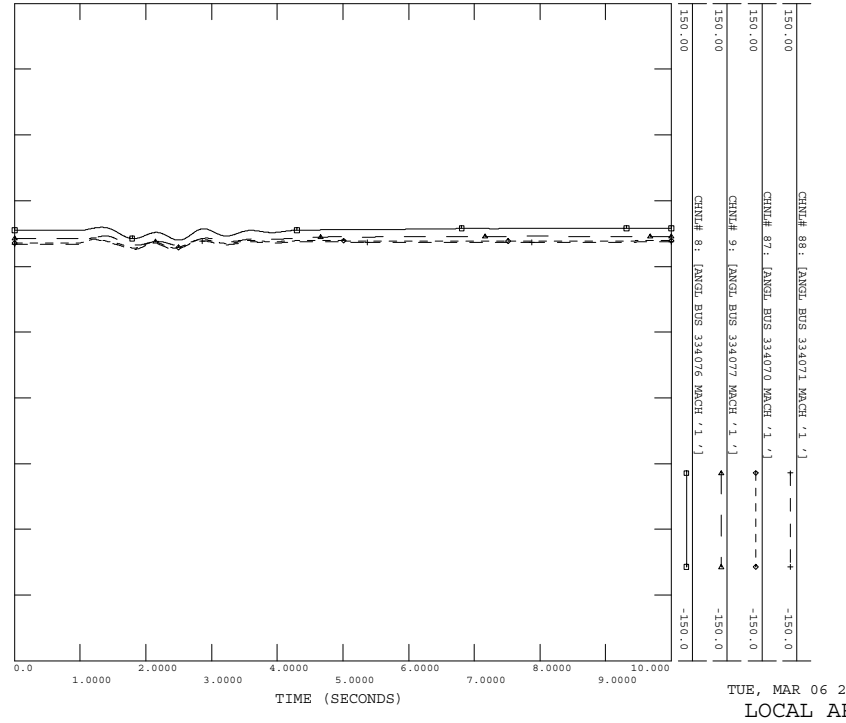
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



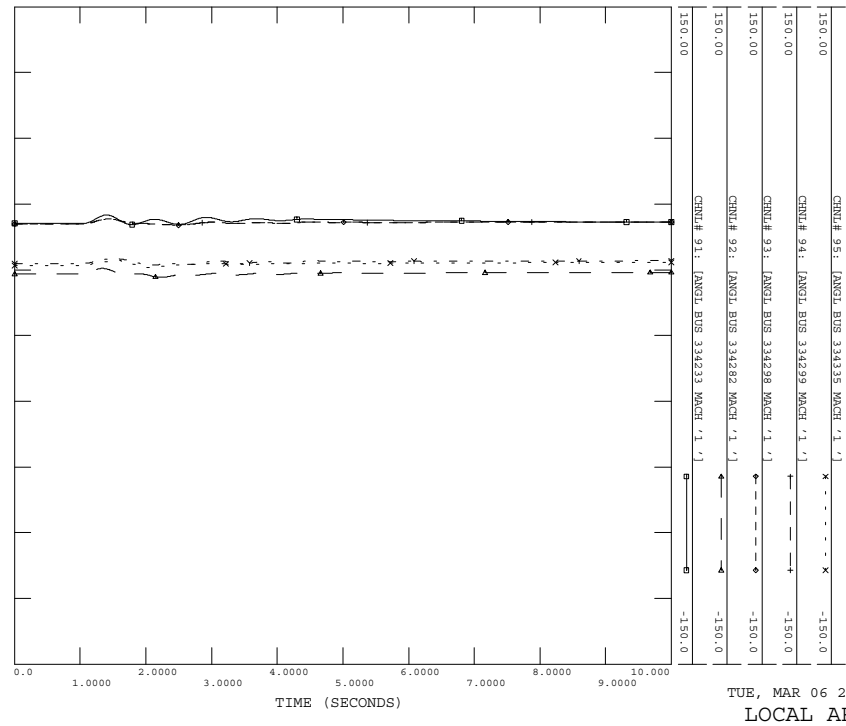
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



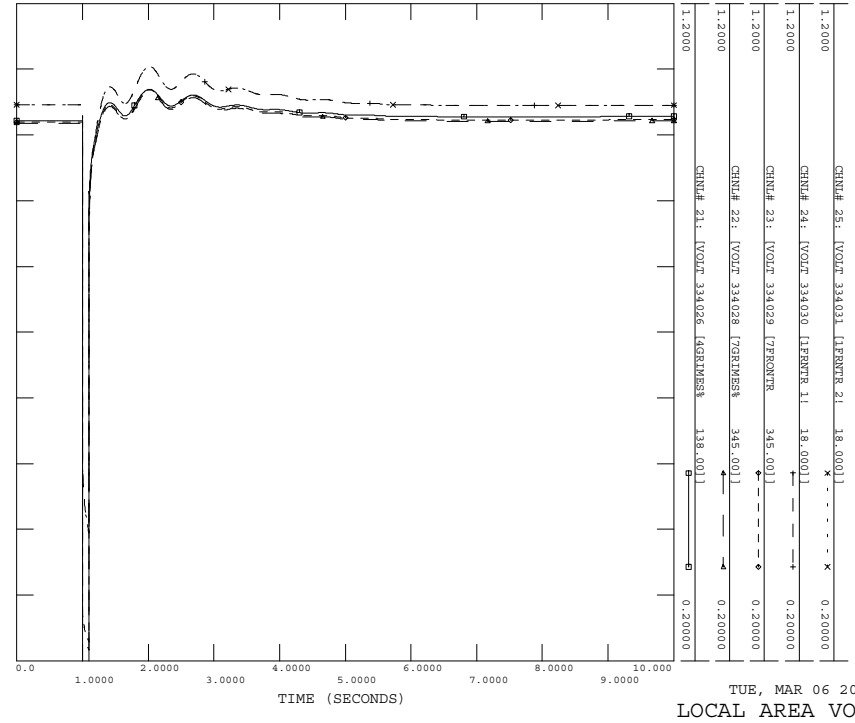
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



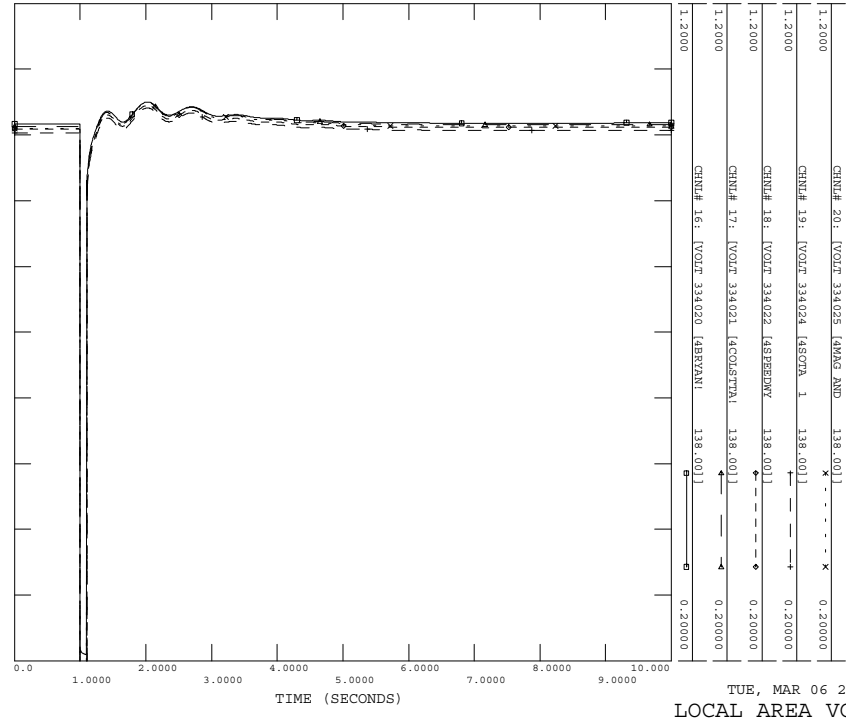
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



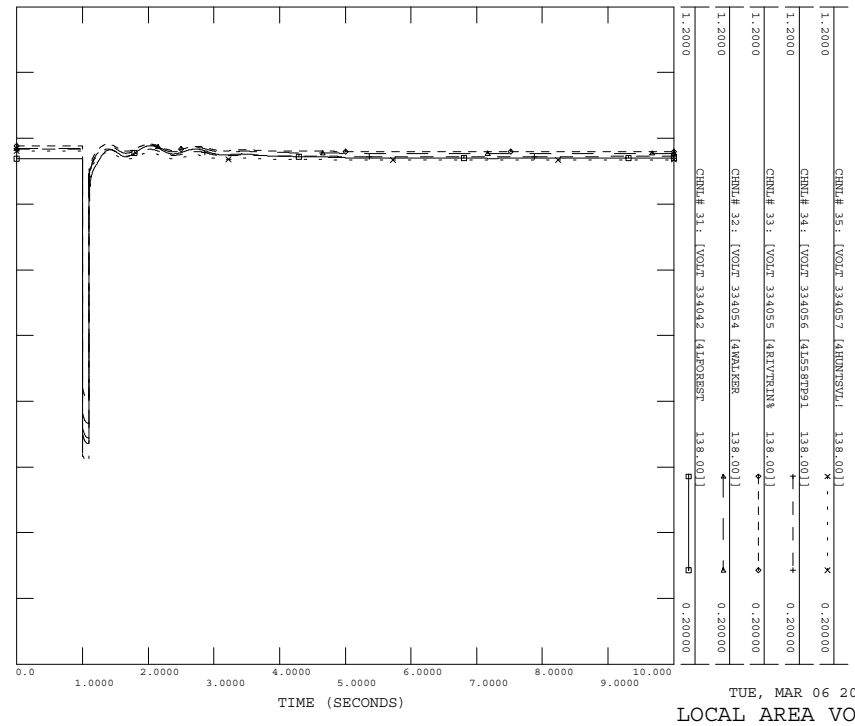
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



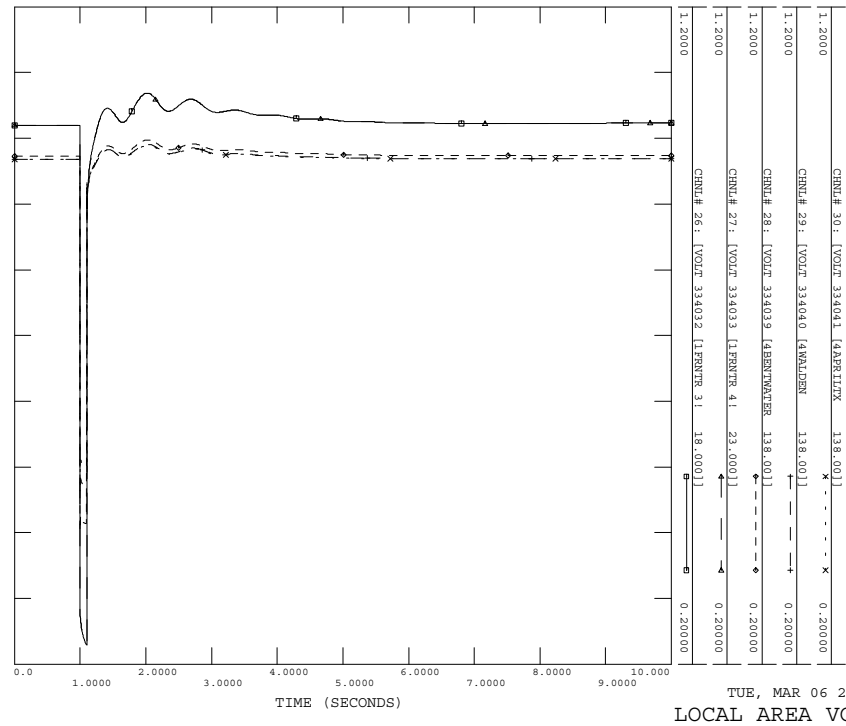
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



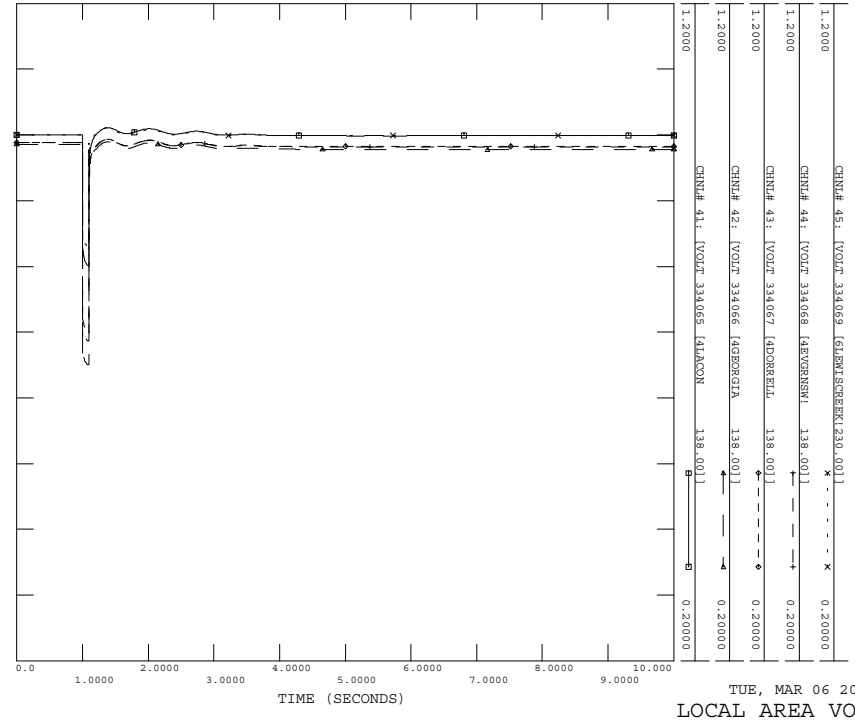
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



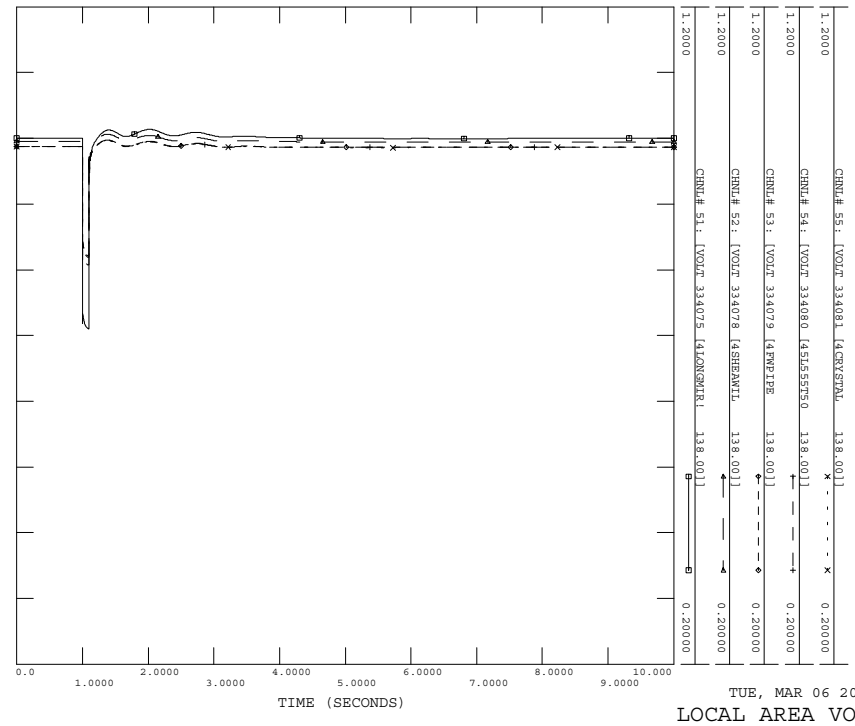
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



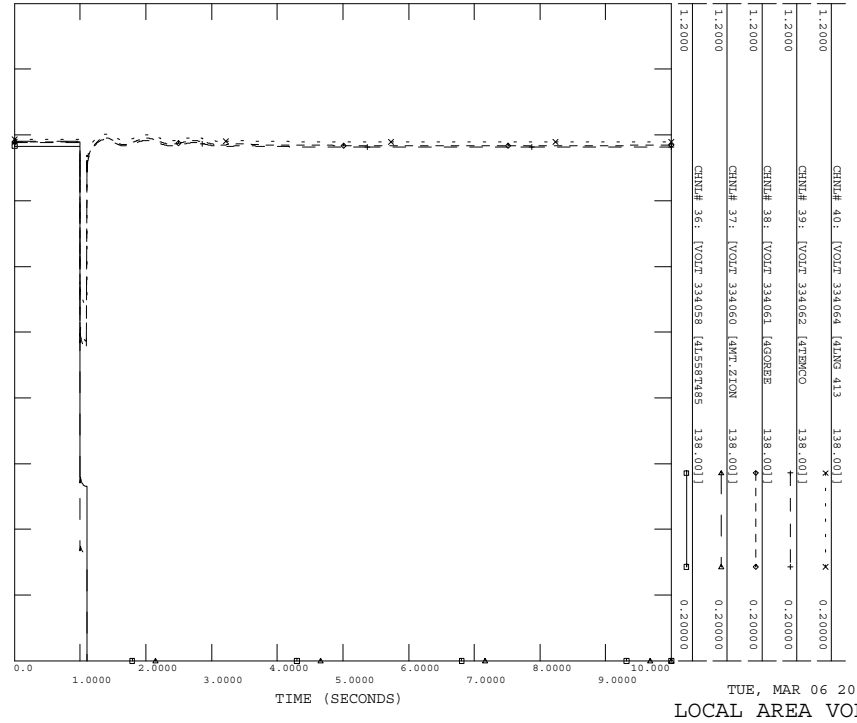
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



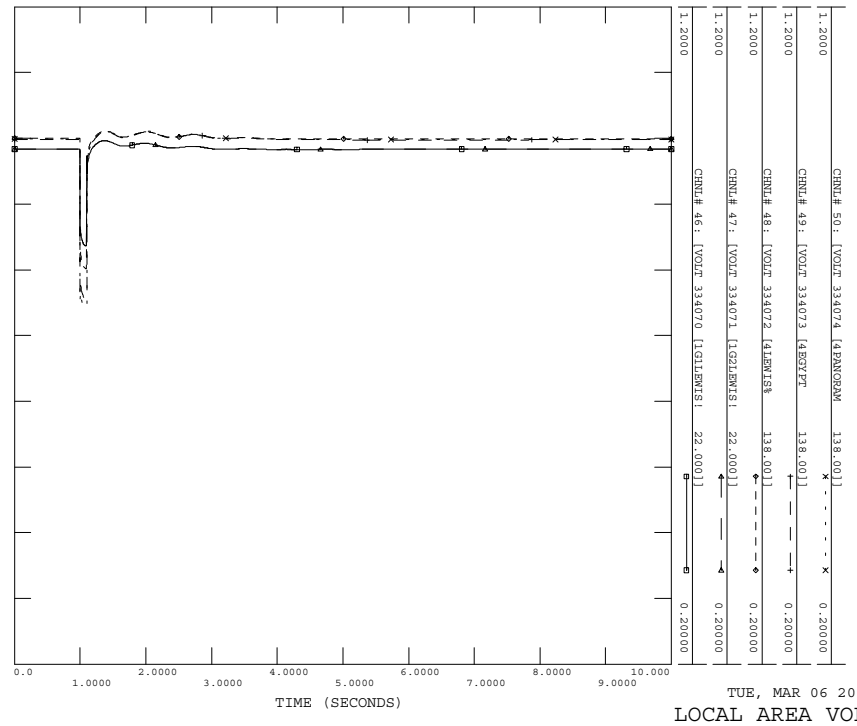
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT

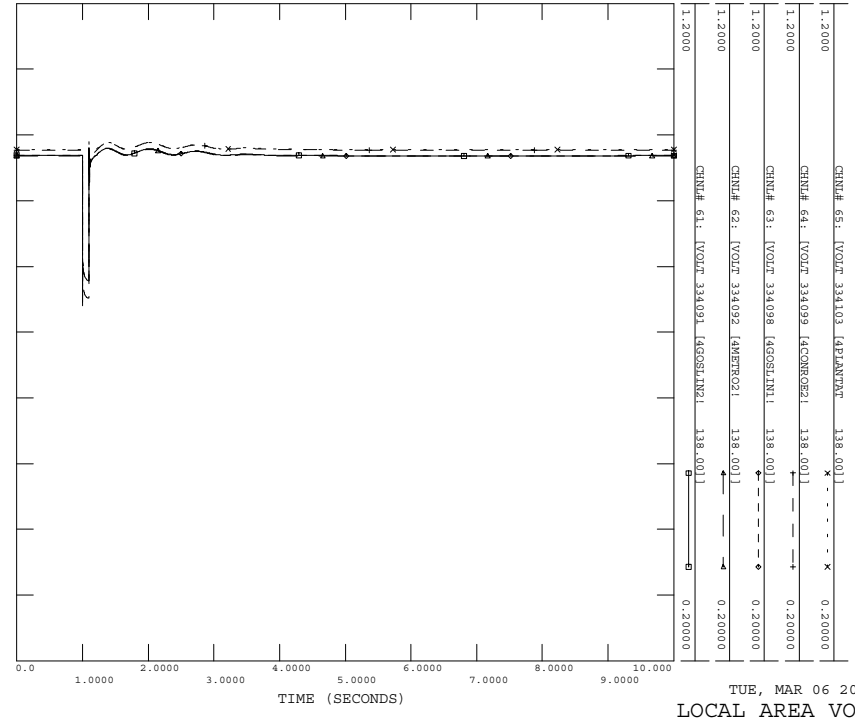


6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT

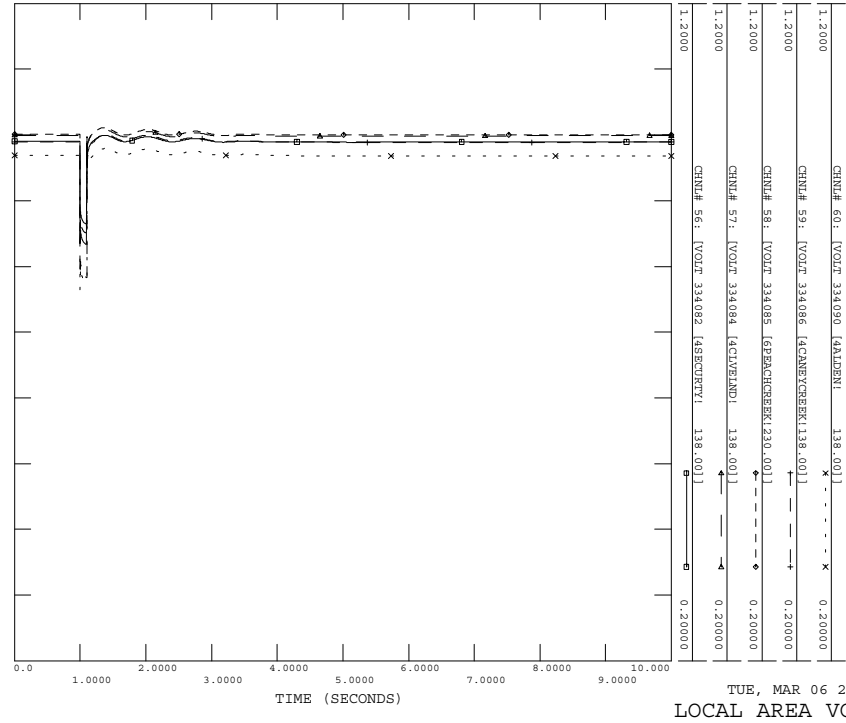




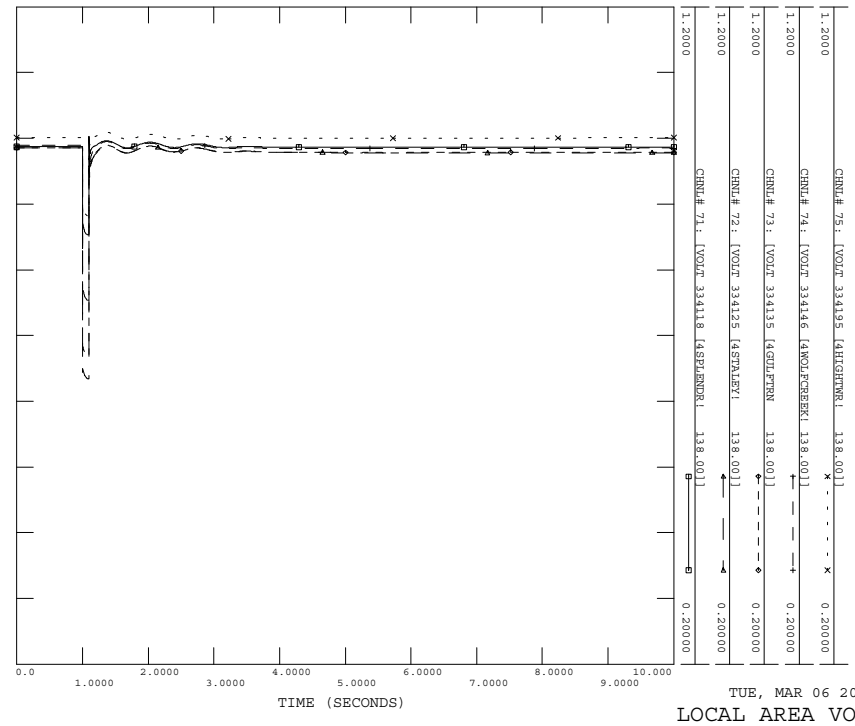
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



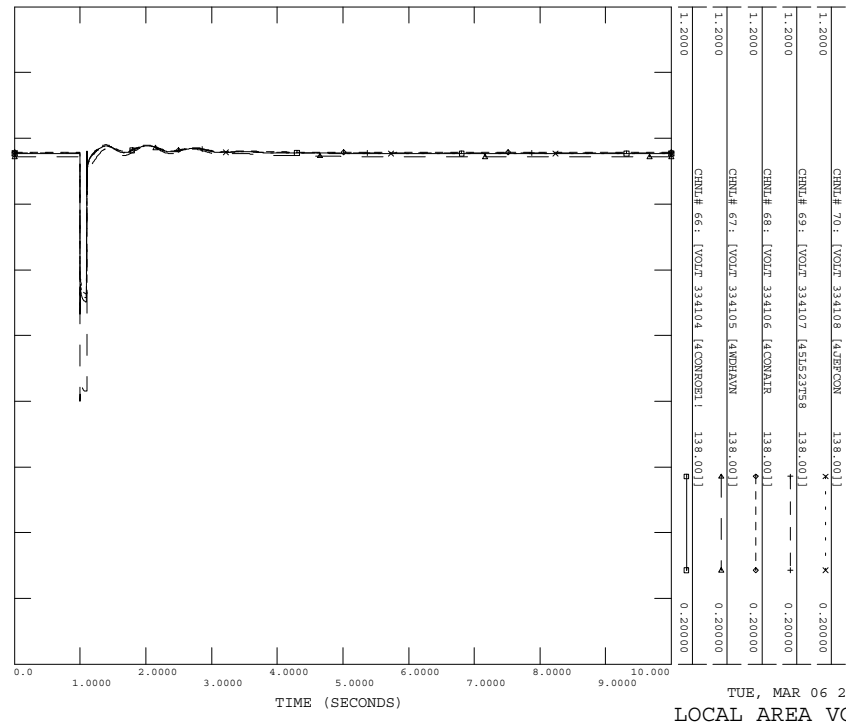
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



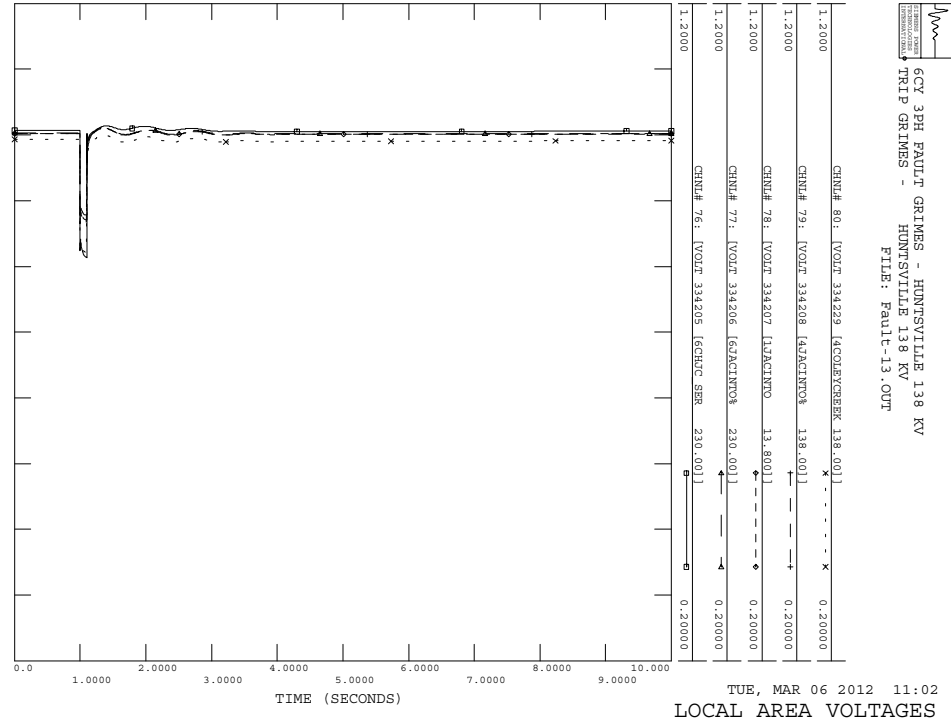
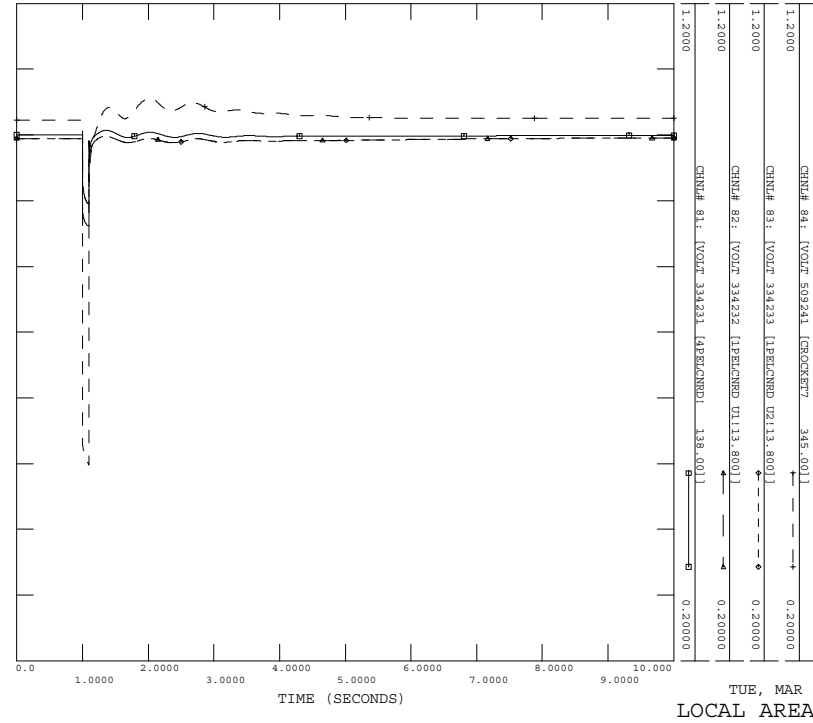
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



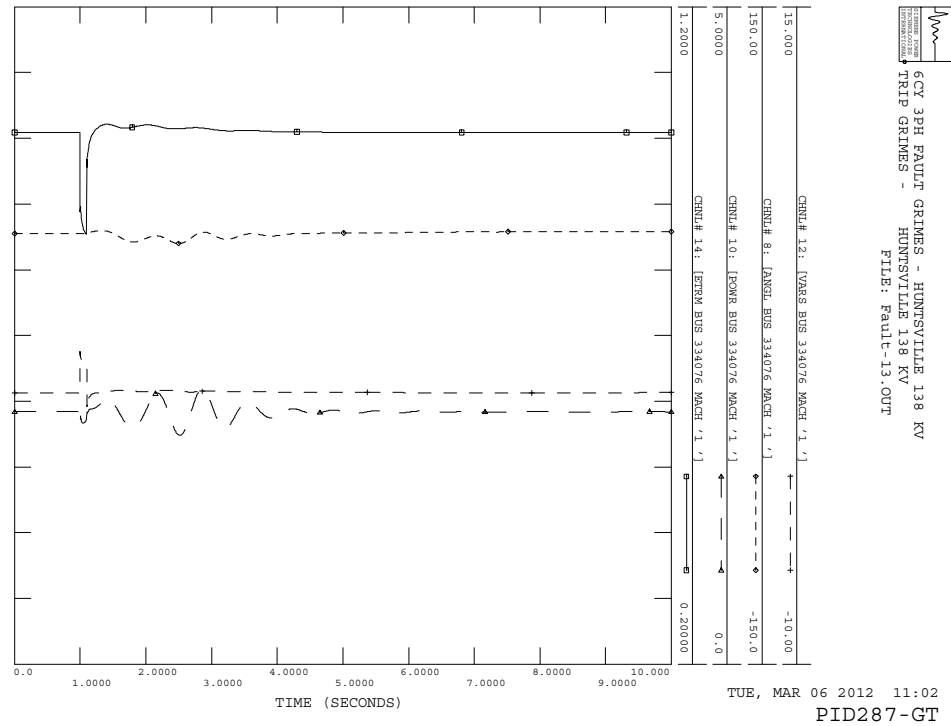
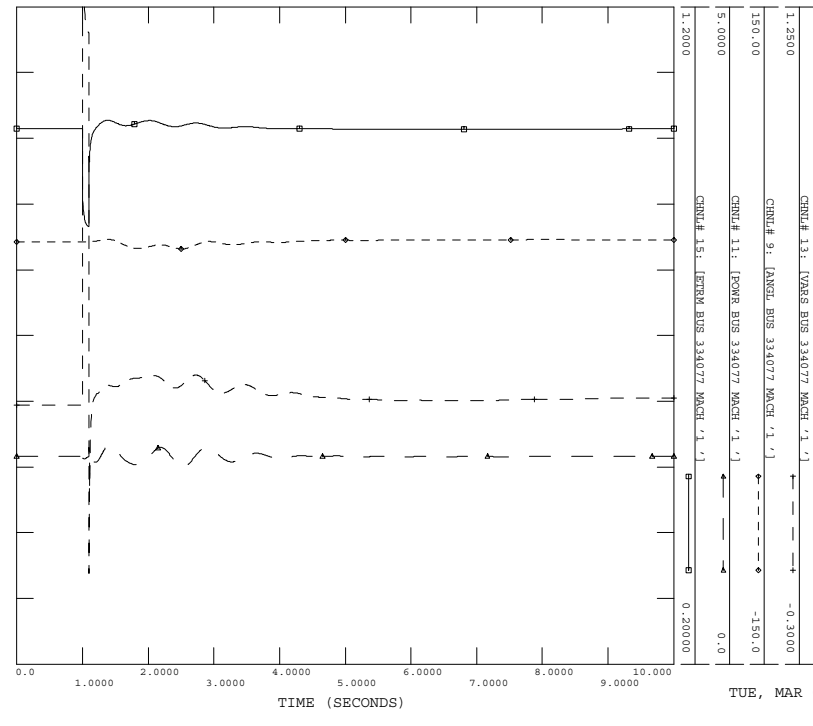
6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT



6CY 3PH FAULT GRIMES - HUNTSVILLE 138 KV  
 HUNTSVILLE 138 KV  
 TRIP GRIMES -  
 FILE: Fault-13.OUT

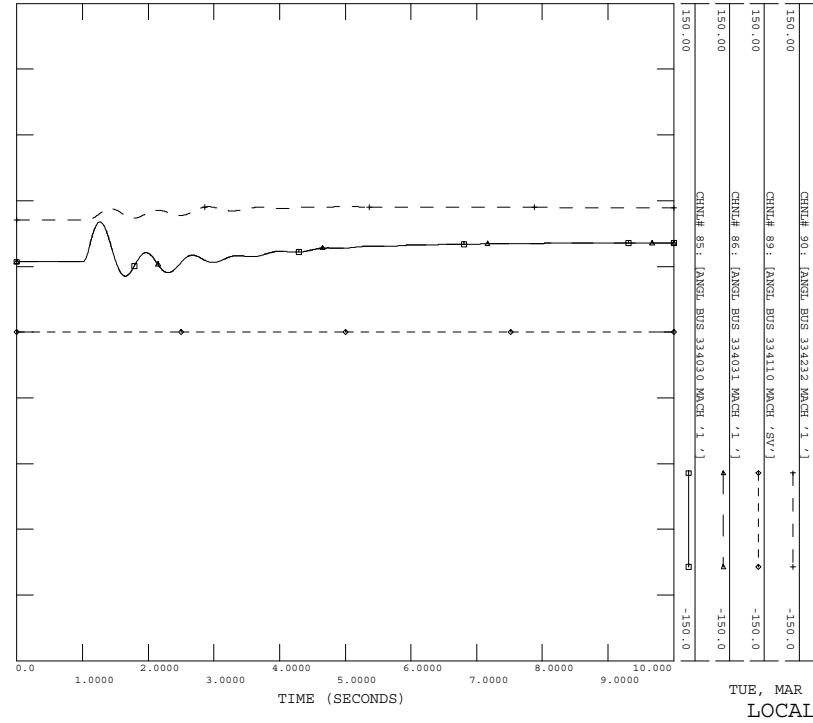


### **C.1.14      FAULT-14**

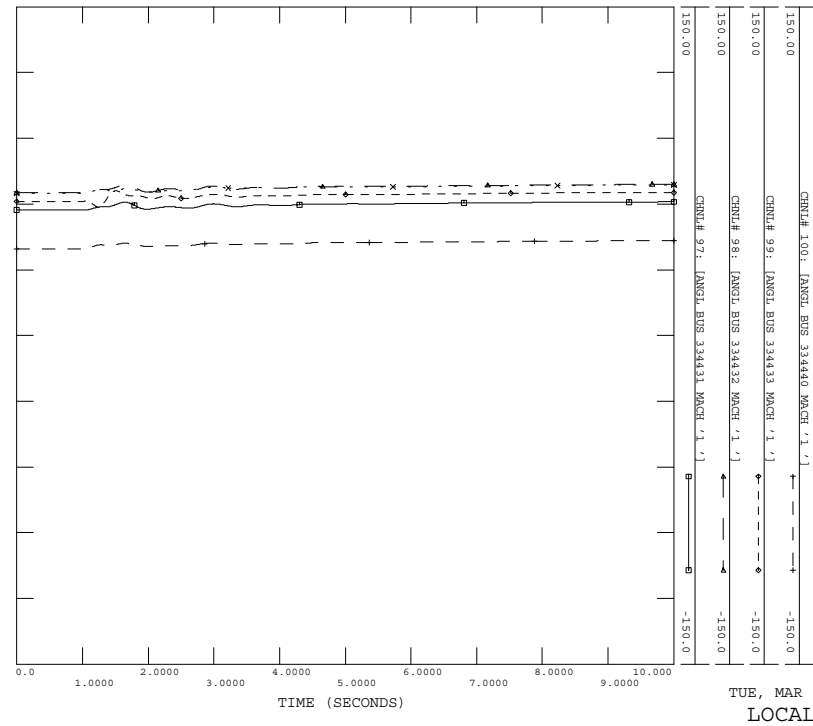
3 phase fault on the Grimes – Conroe Bulk 138 kV

- a) Apply fault at Grimes 138kV bus
- b) Clear fault after 6 cycles by tripping the Grimes – Conroe Bulk 138 kV

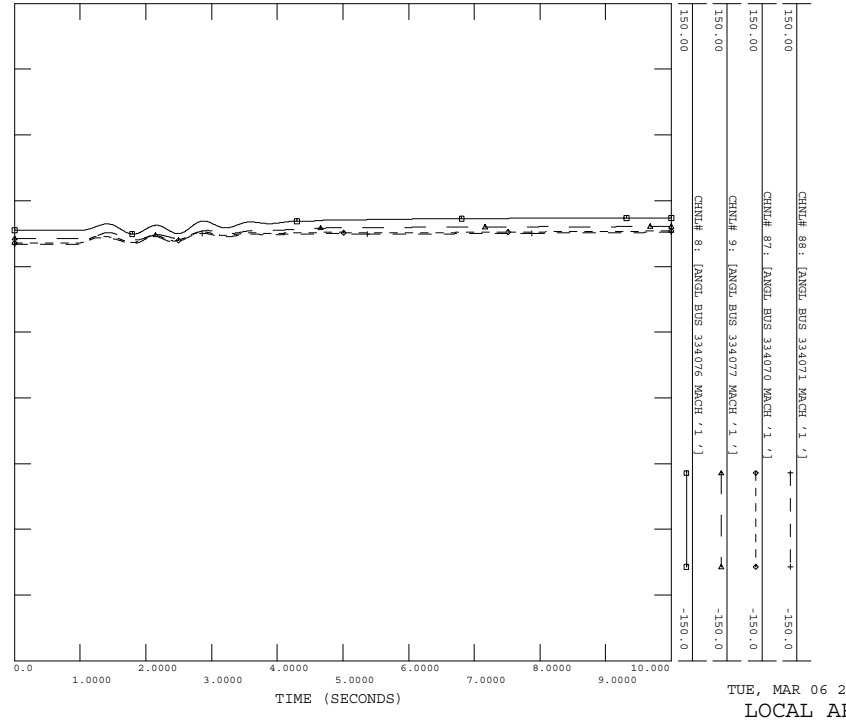
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



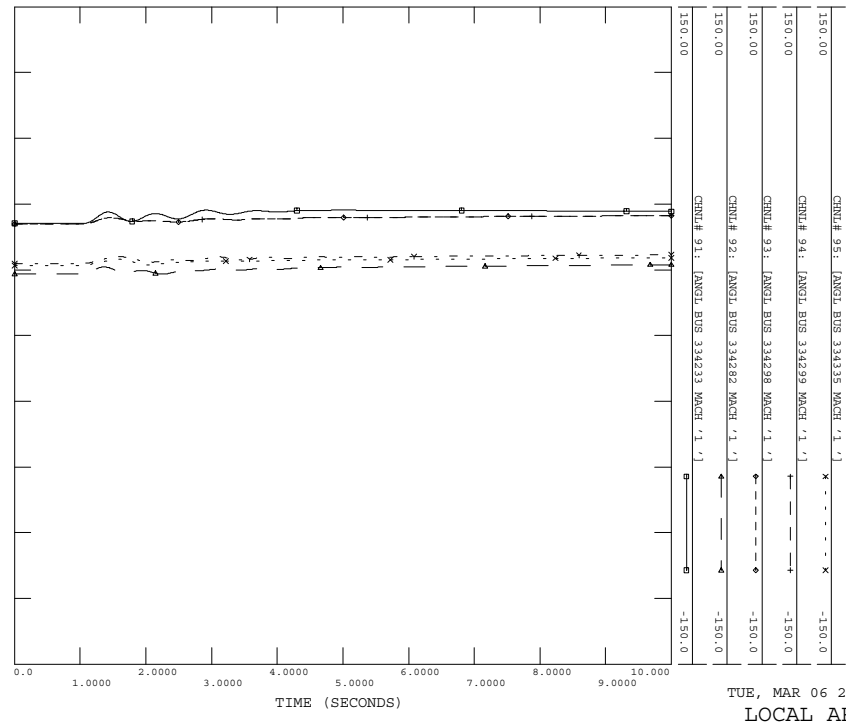
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT

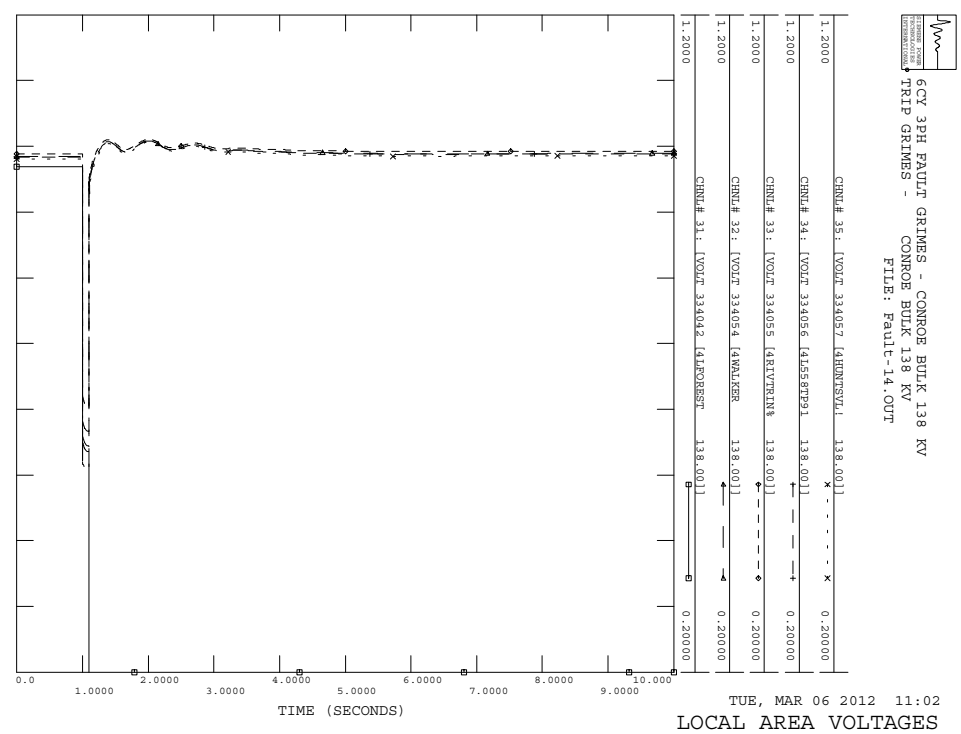
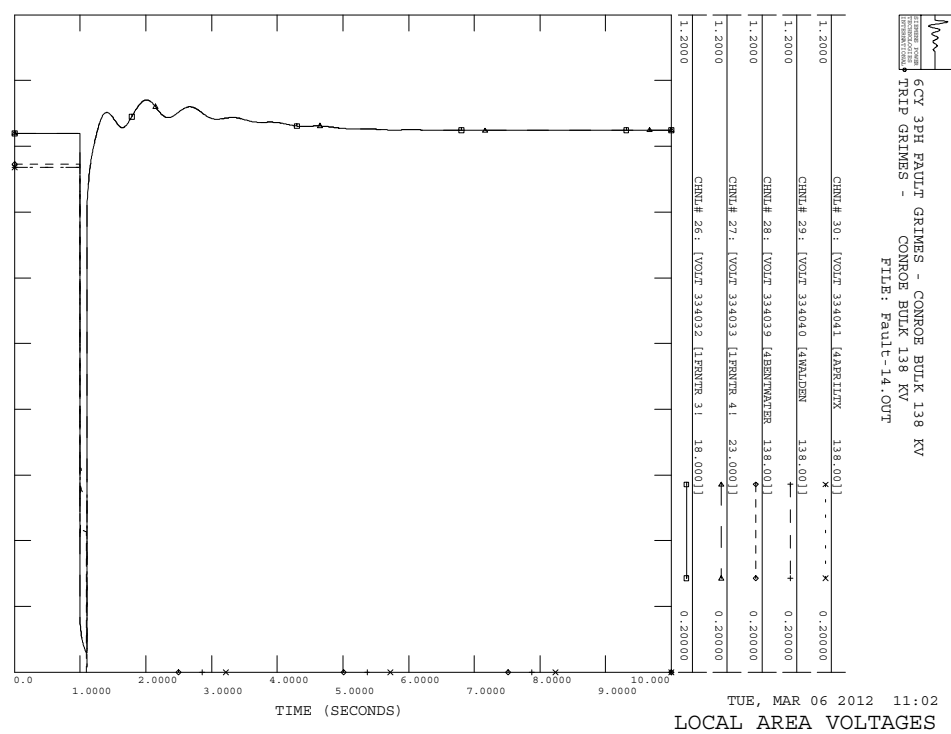
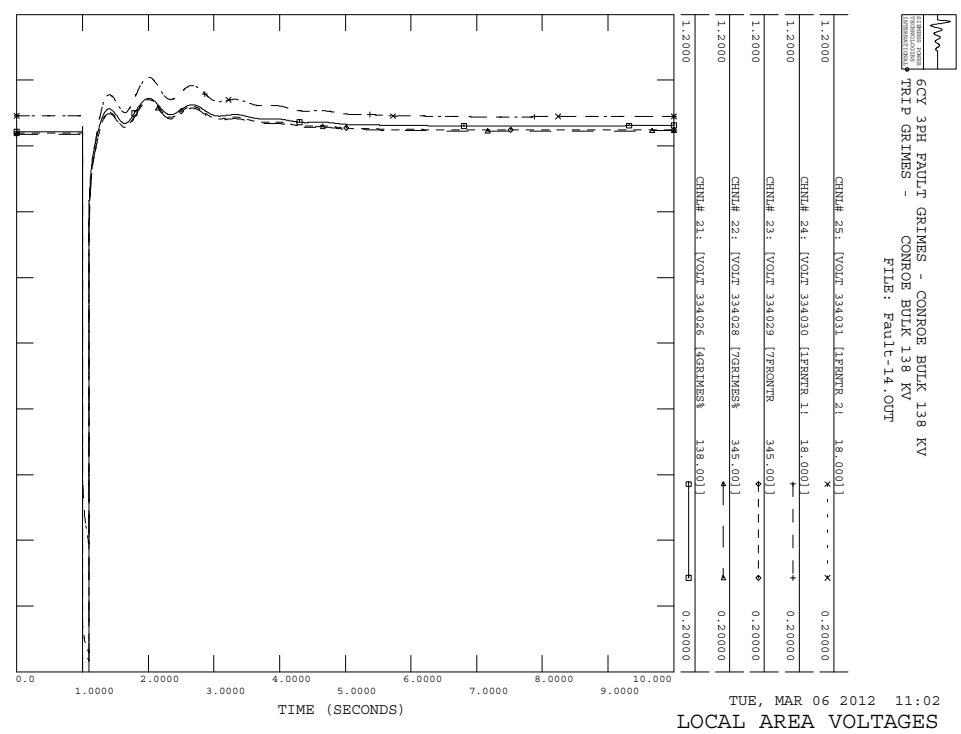
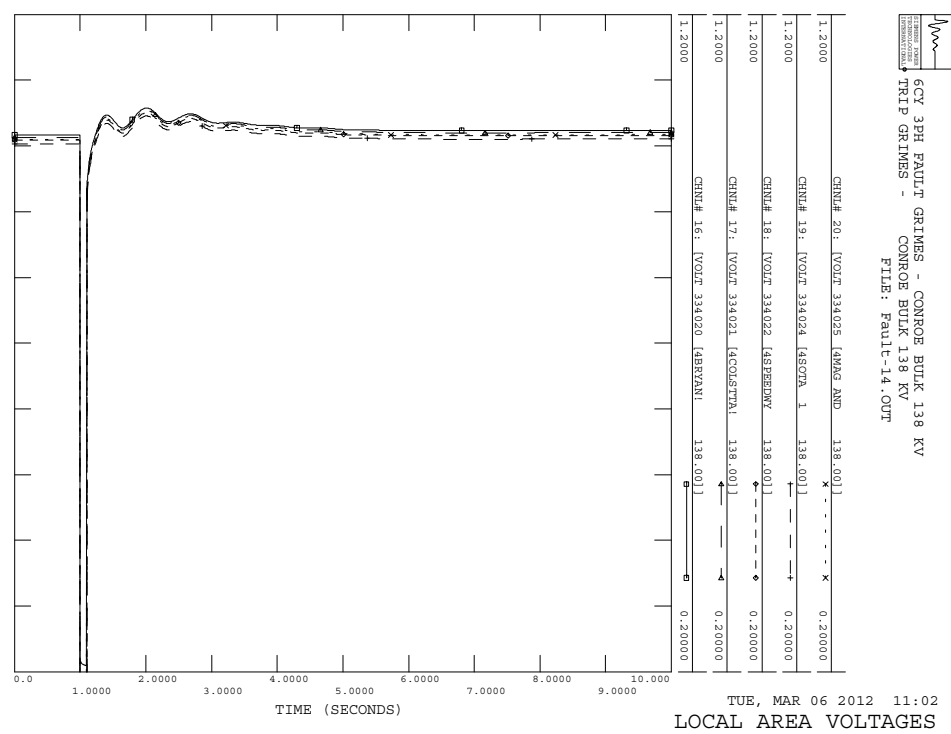


6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT

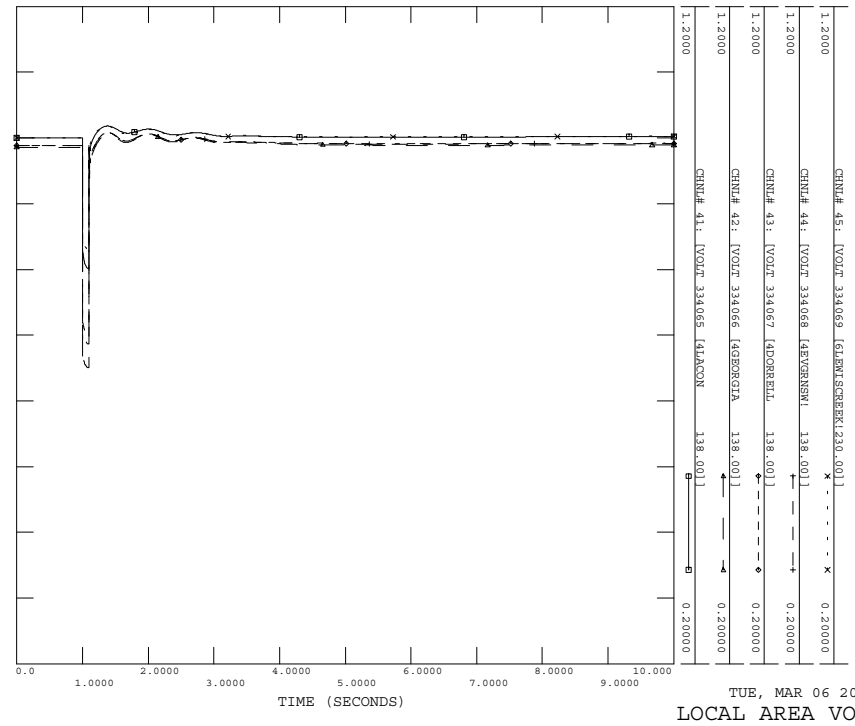


6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT

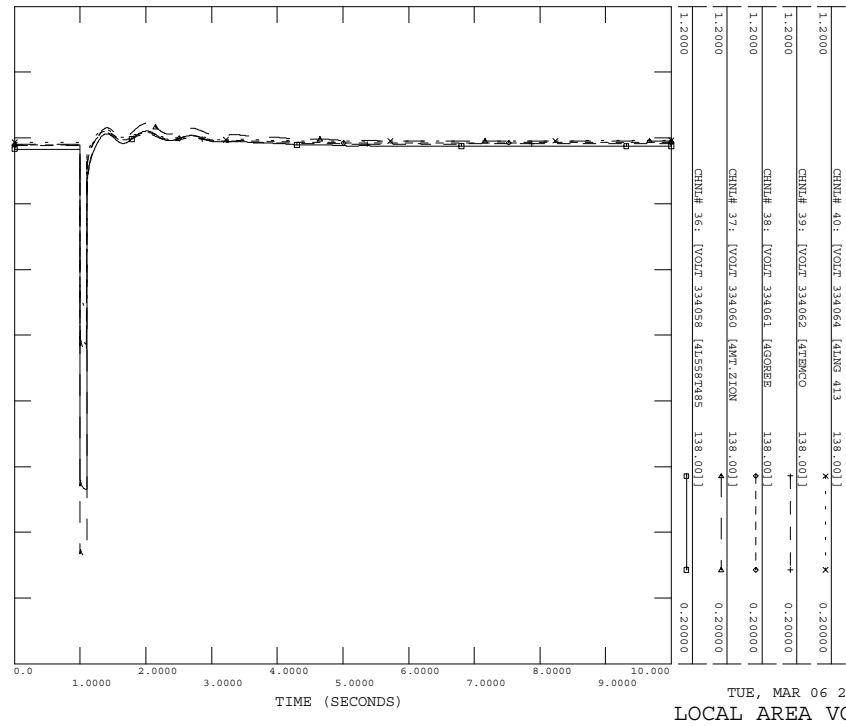




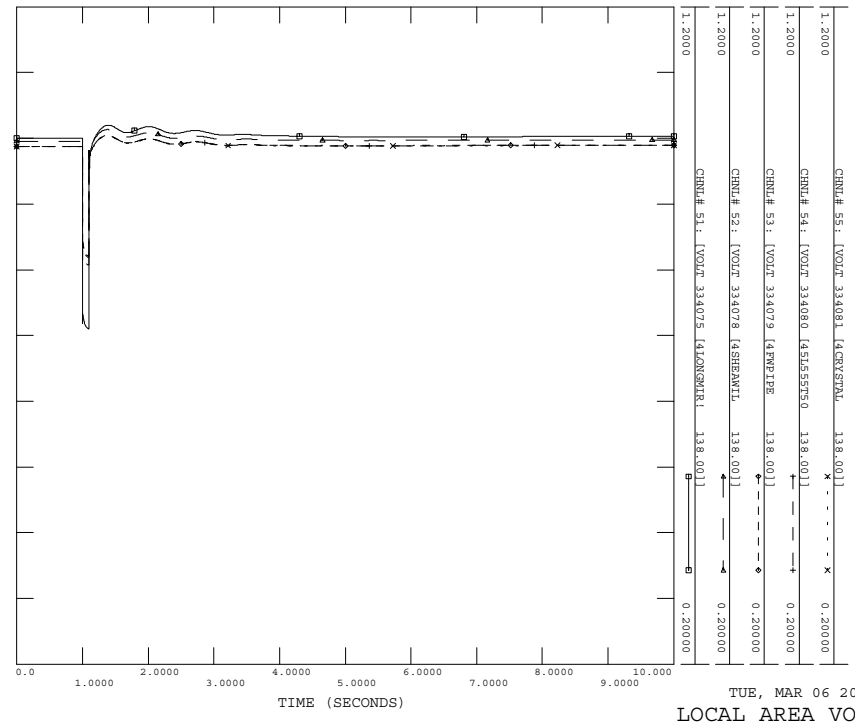
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



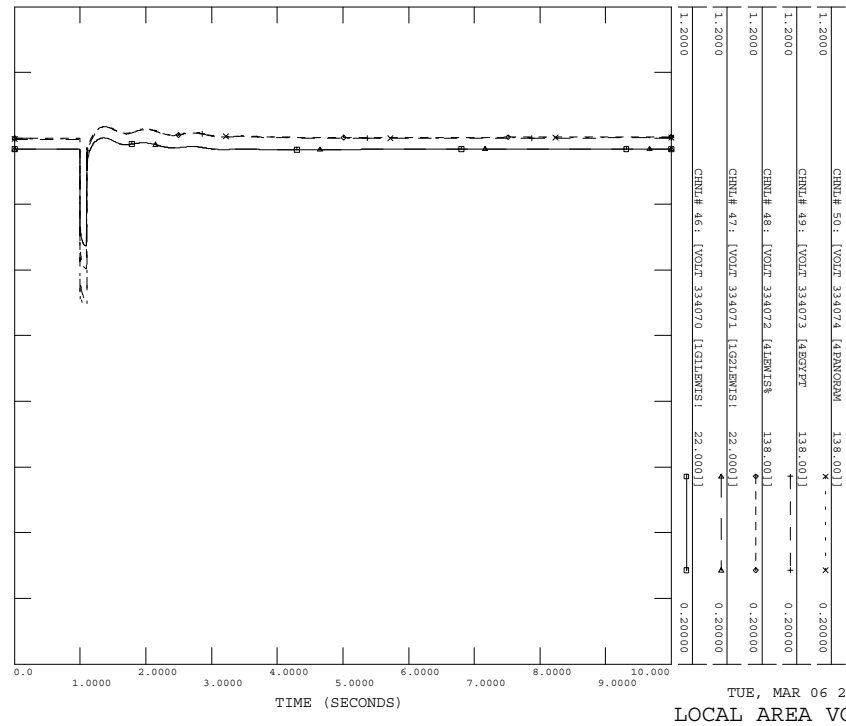
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



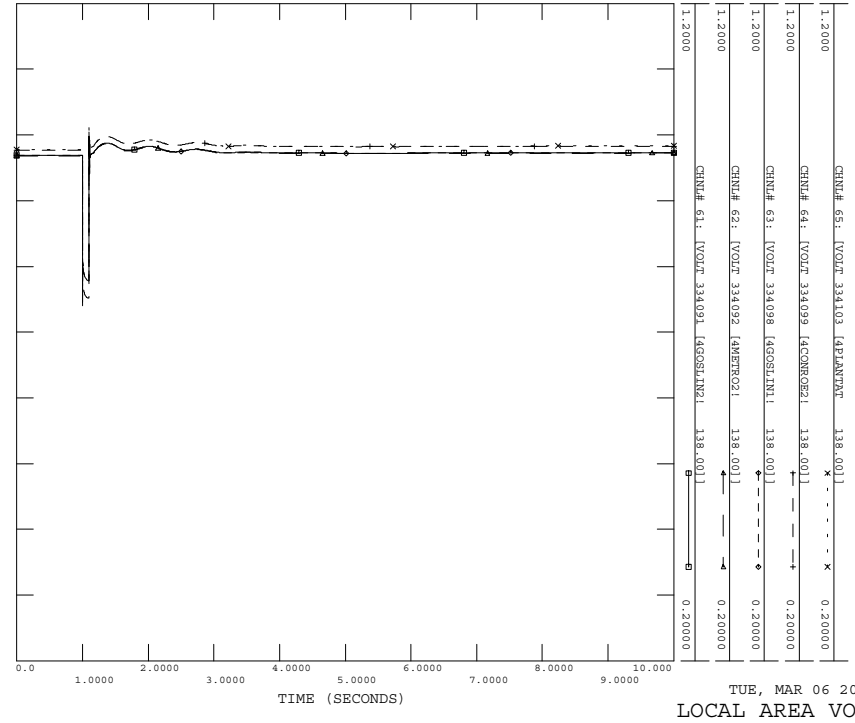
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



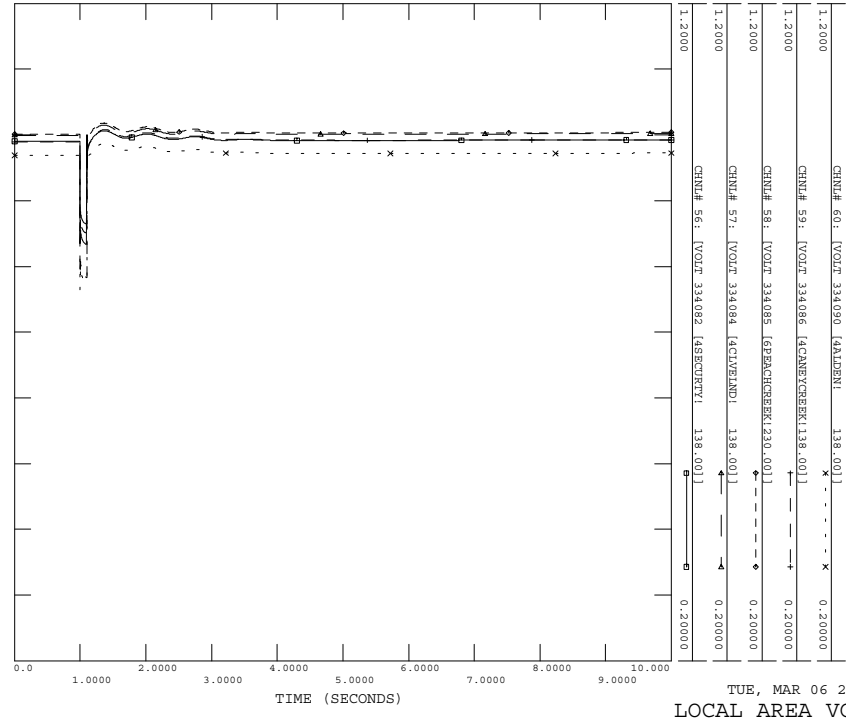
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



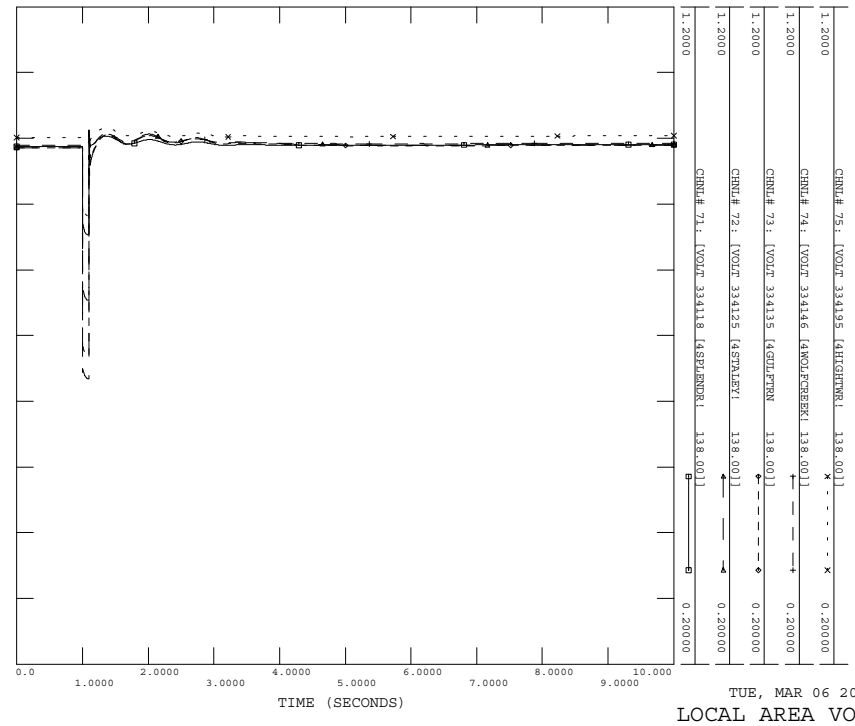
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



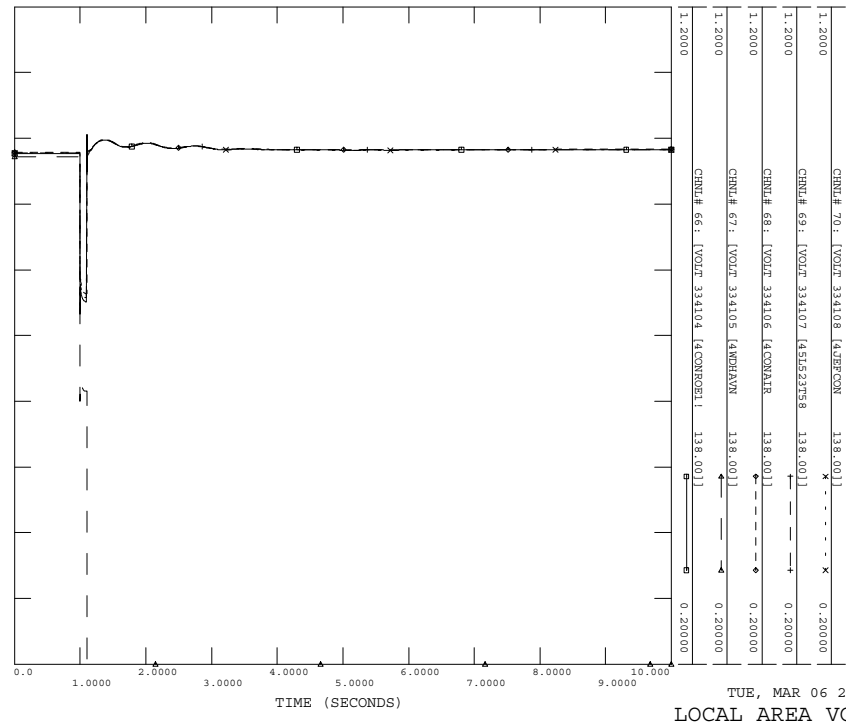
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



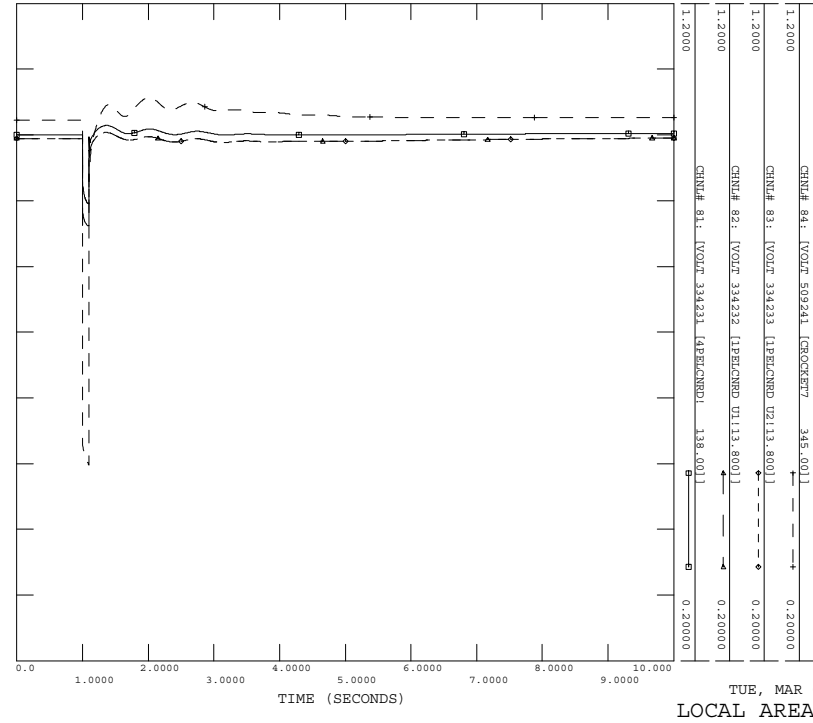
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



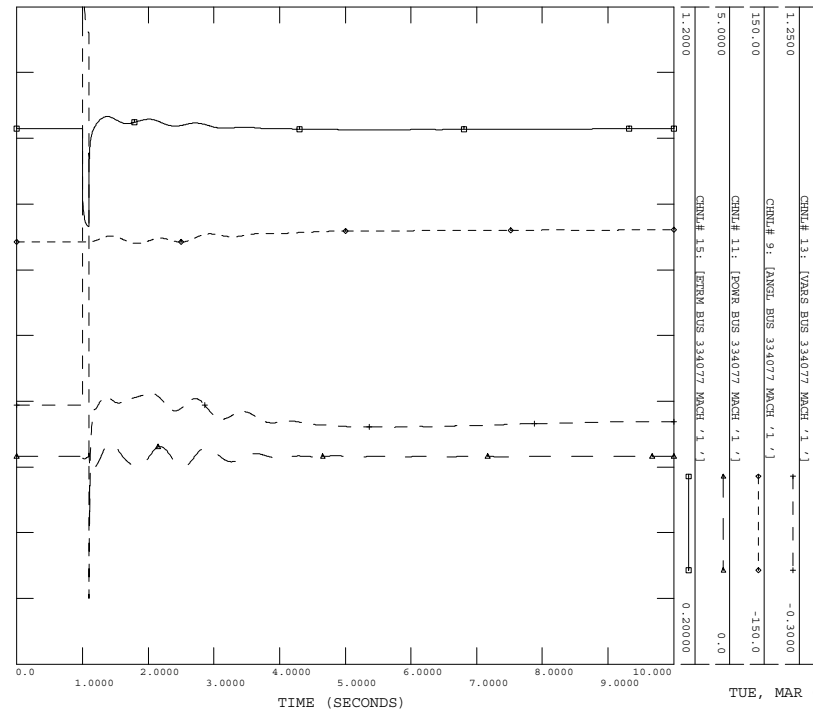
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



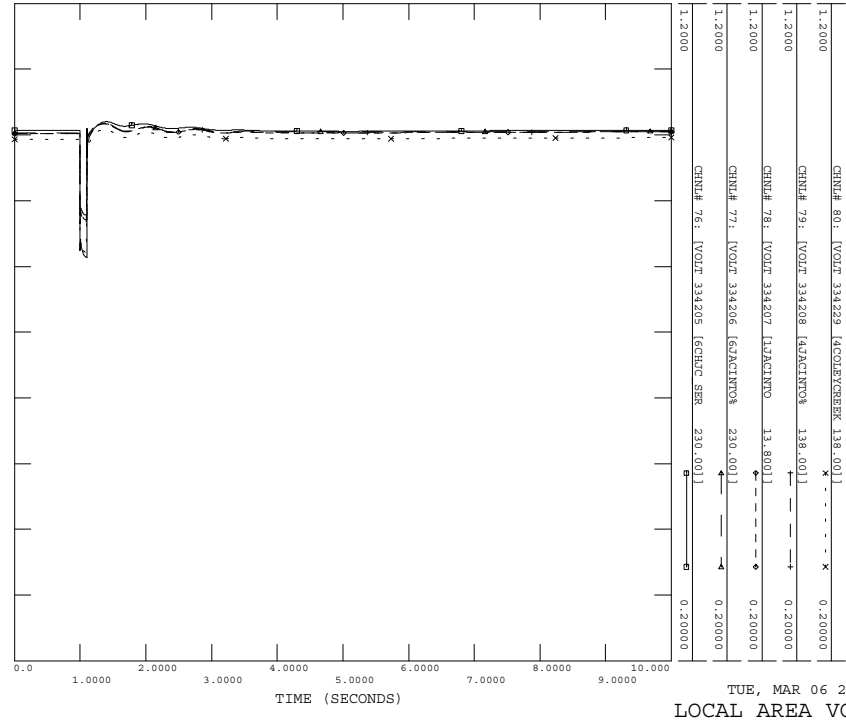
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



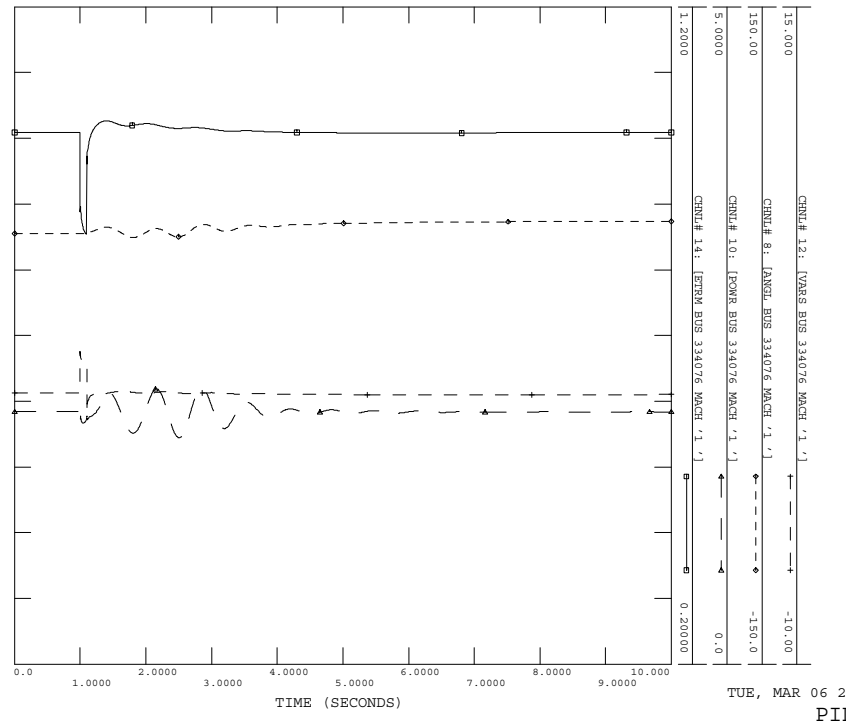
6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



6CY 3PH FAULT GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES - CONROE BULK 138 KV  
 FILE: Fault-14.OUT



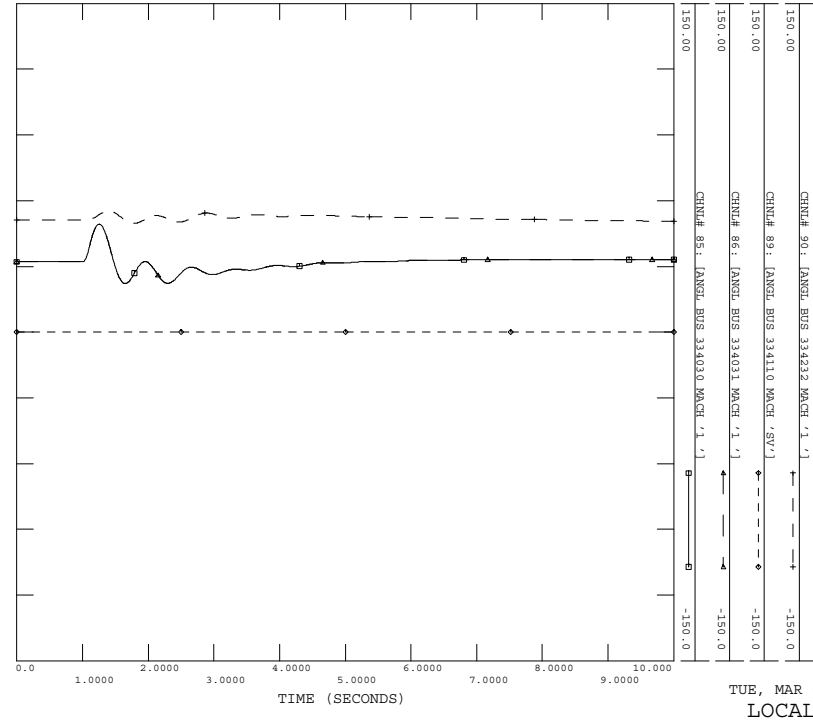


### **C.1.15      FAULT-15**

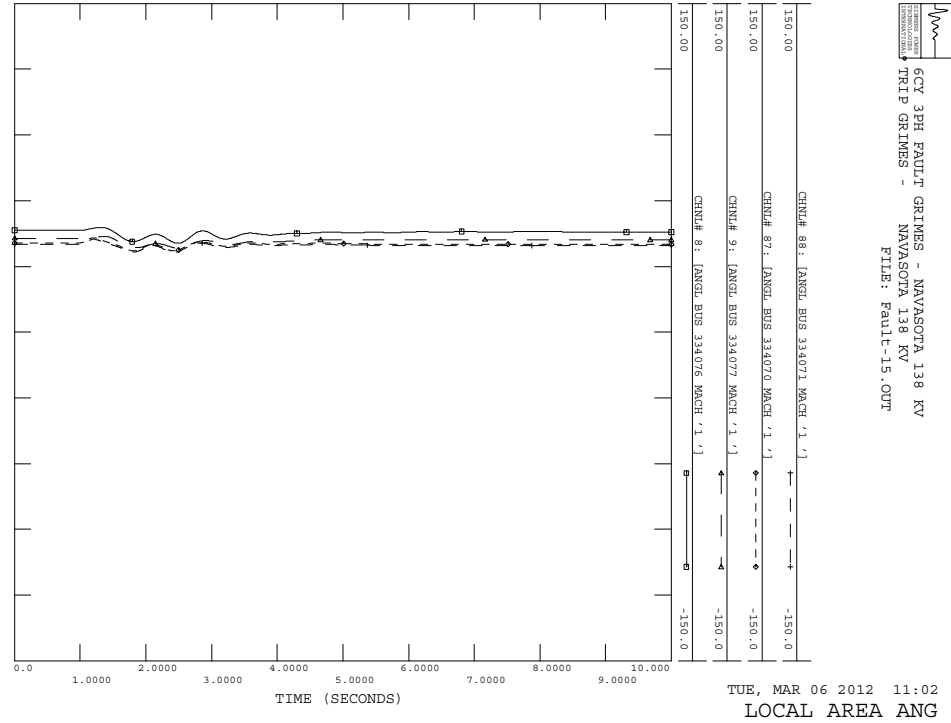
3 phase fault on the Grimes – Navasota 138 kV

- a) Apply fault at Grimes 138kV bus
- b) Clear fault after 6 cycles by tripping the Grimes – Navasota 138 kV

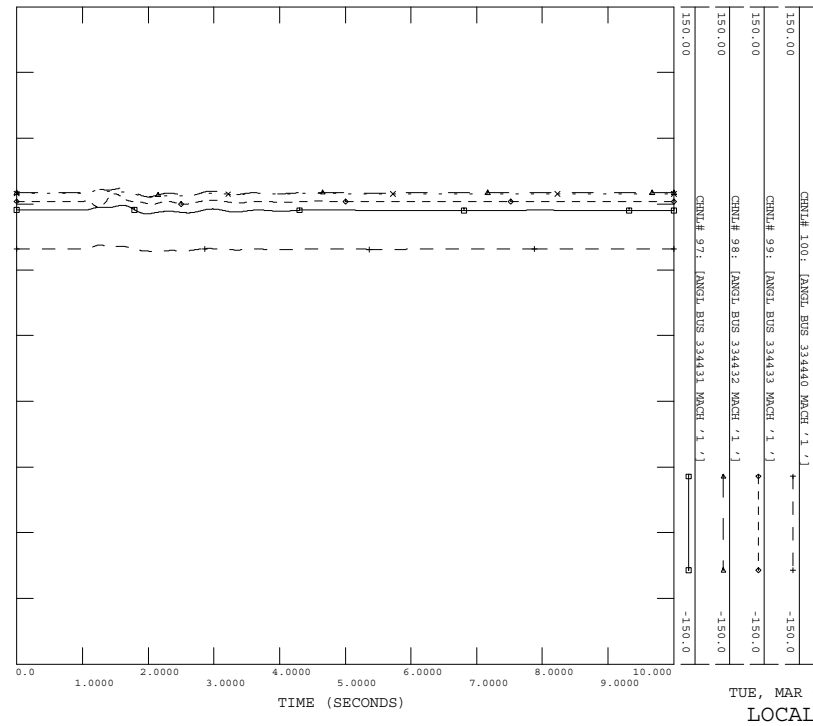
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



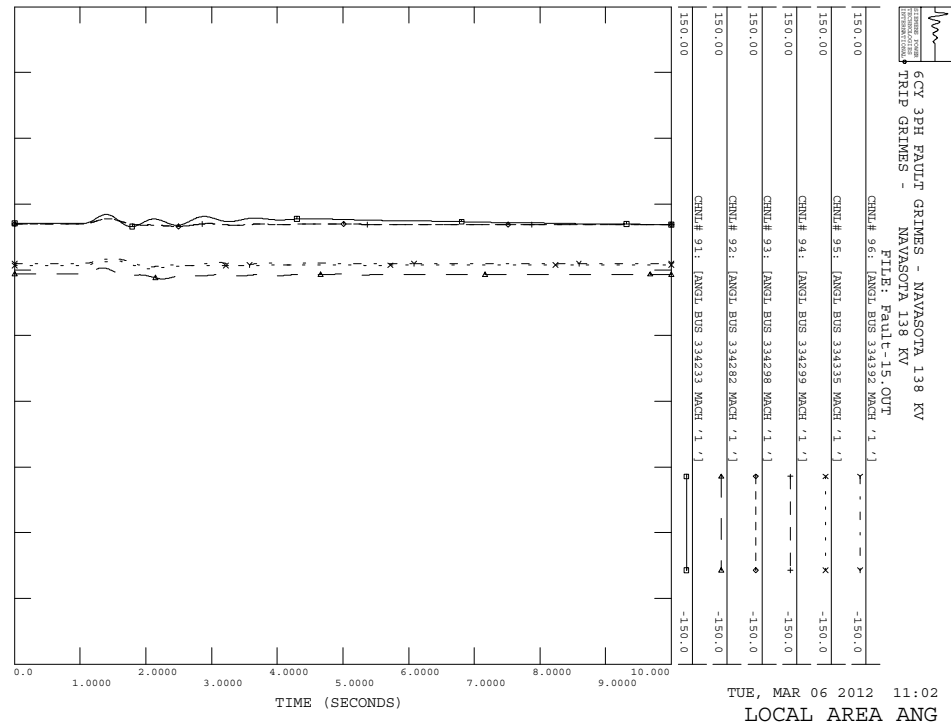
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



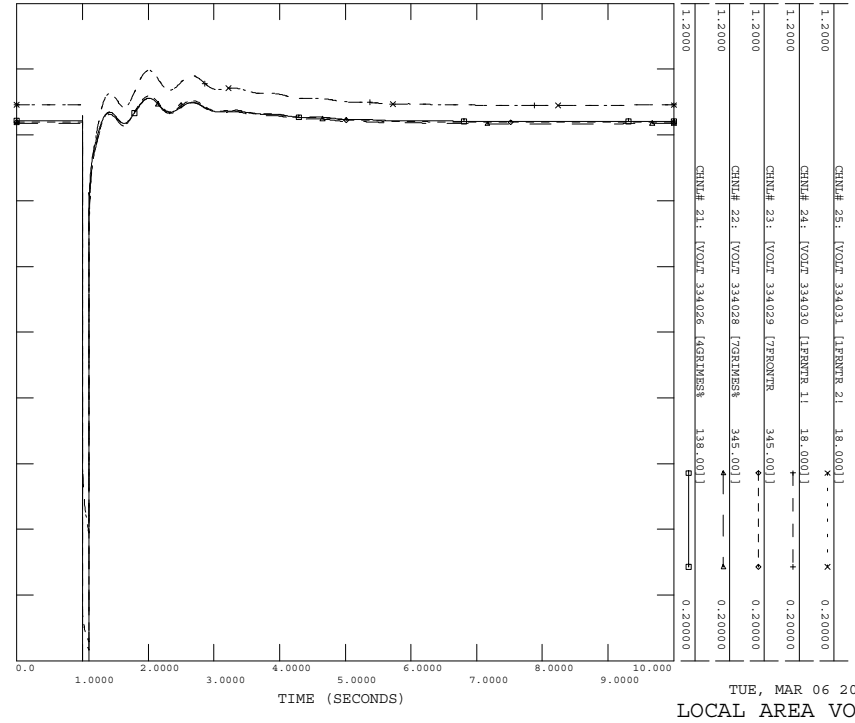
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



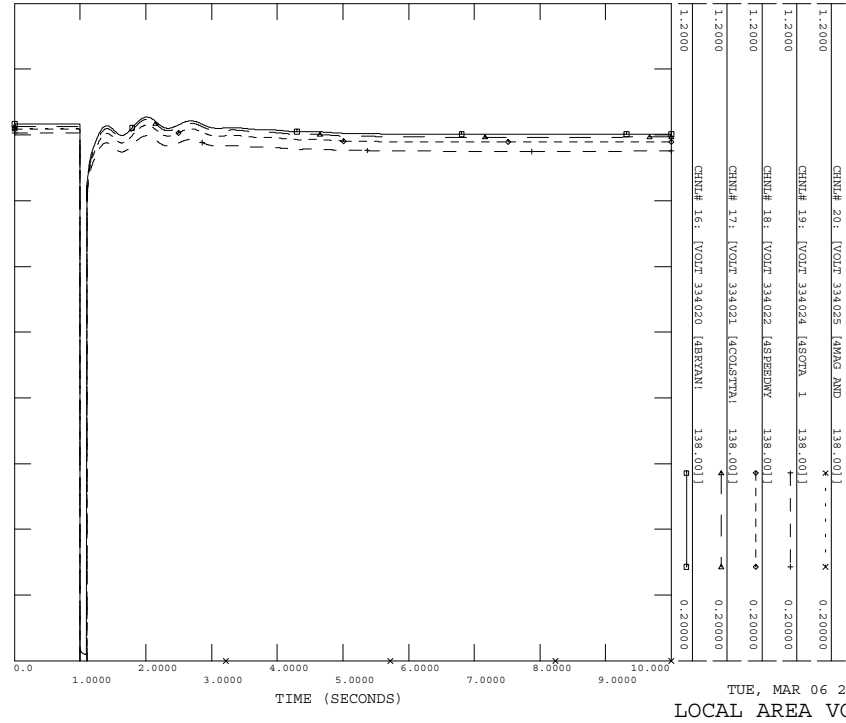
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



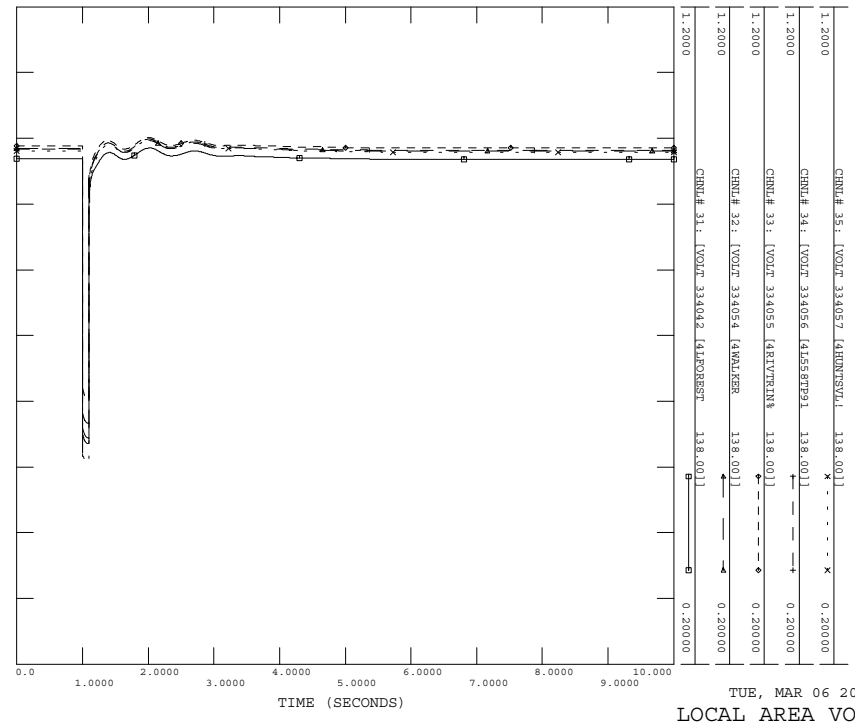
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



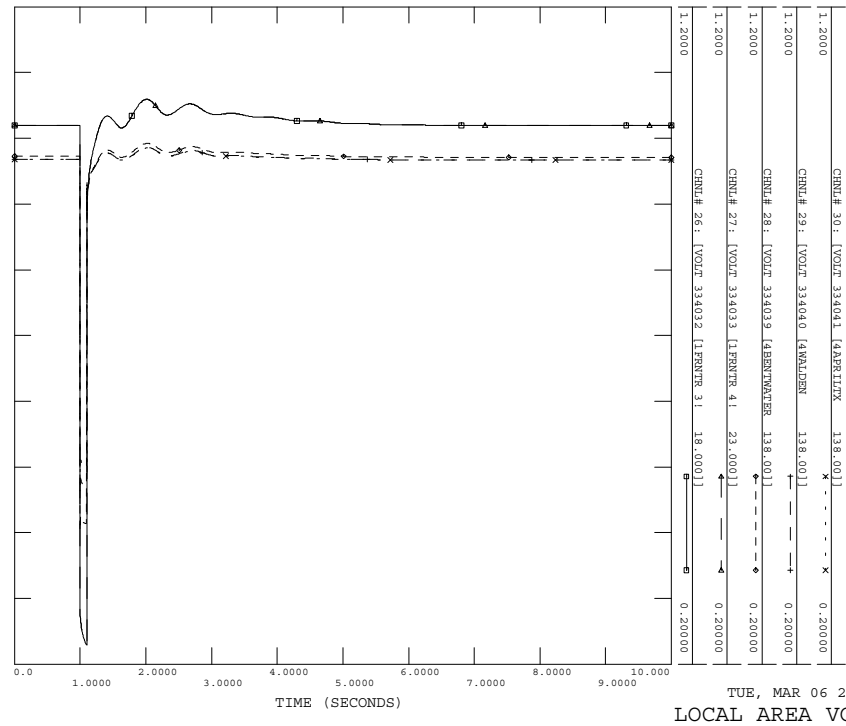
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



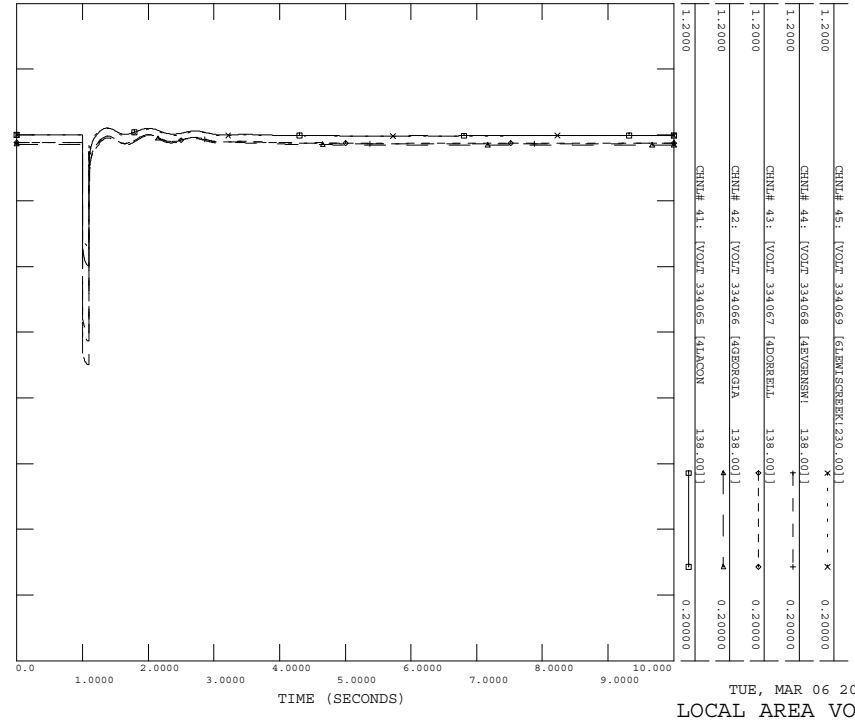
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



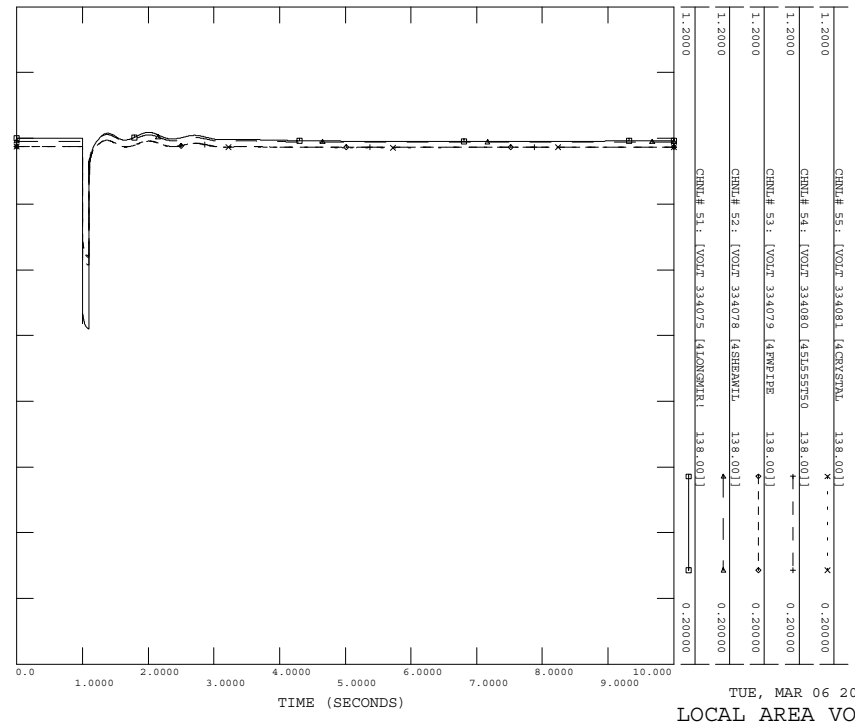
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



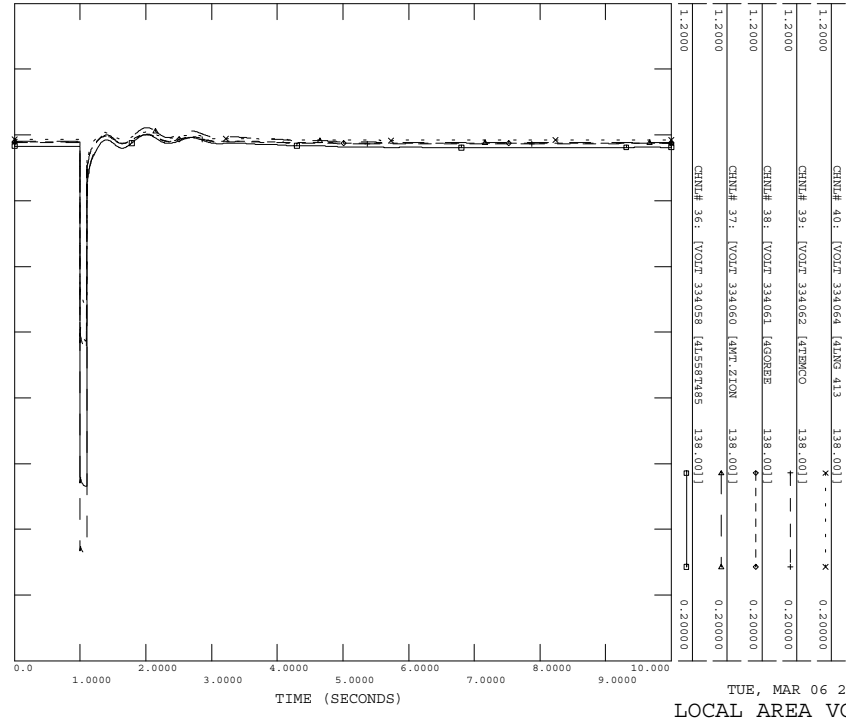
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



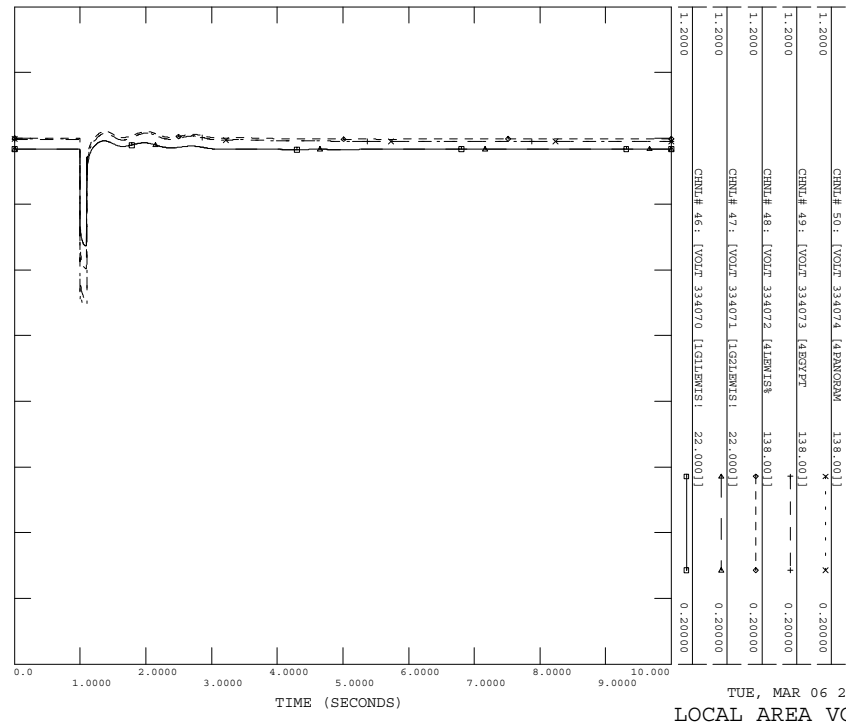
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



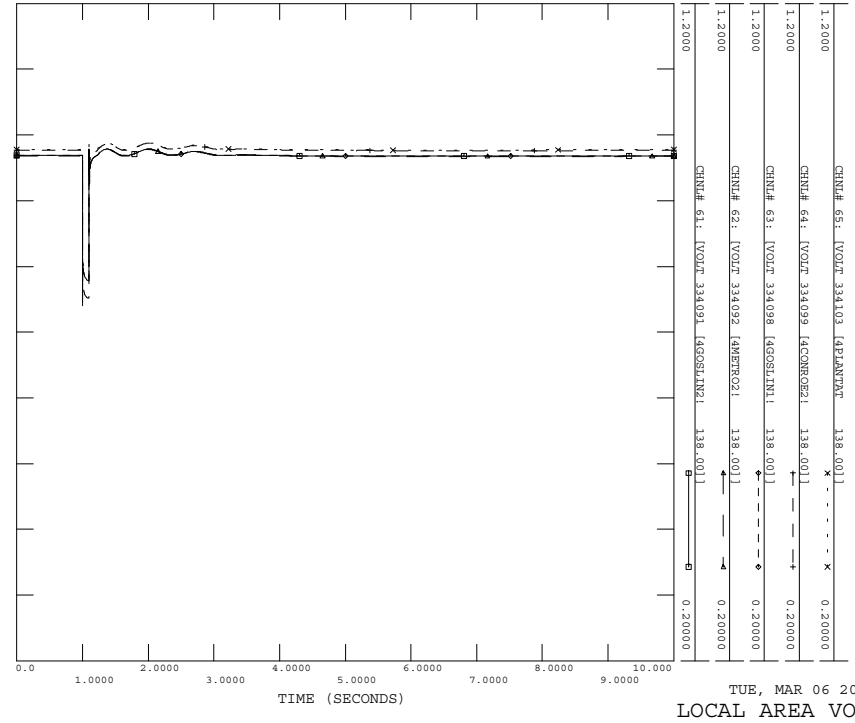
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



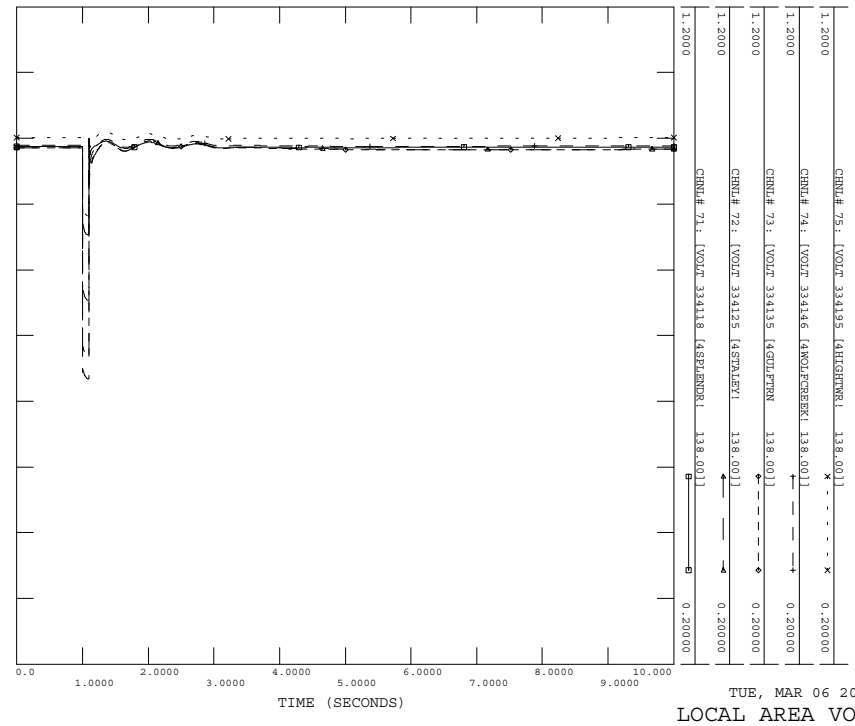
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



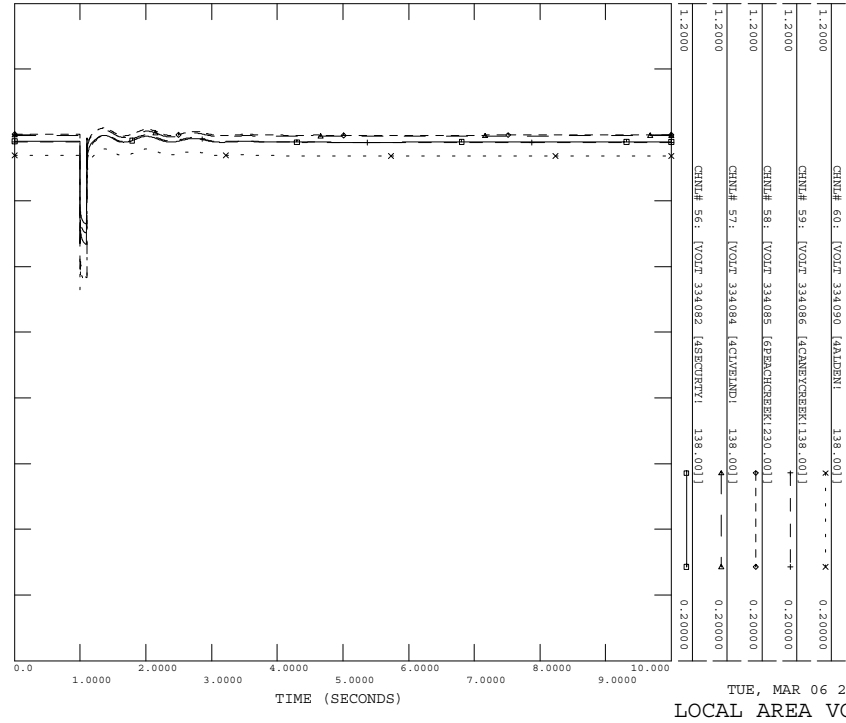
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



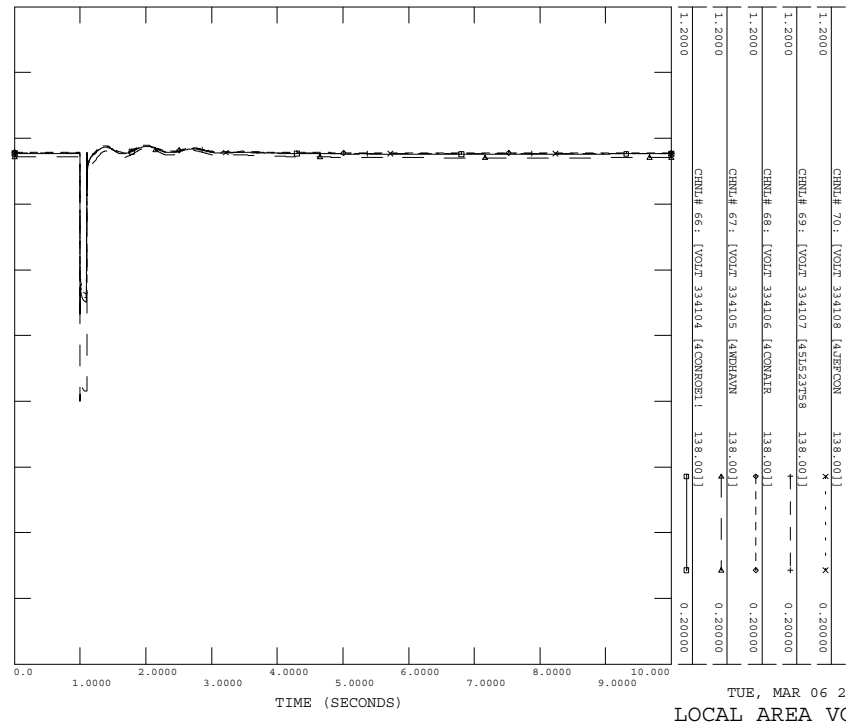
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



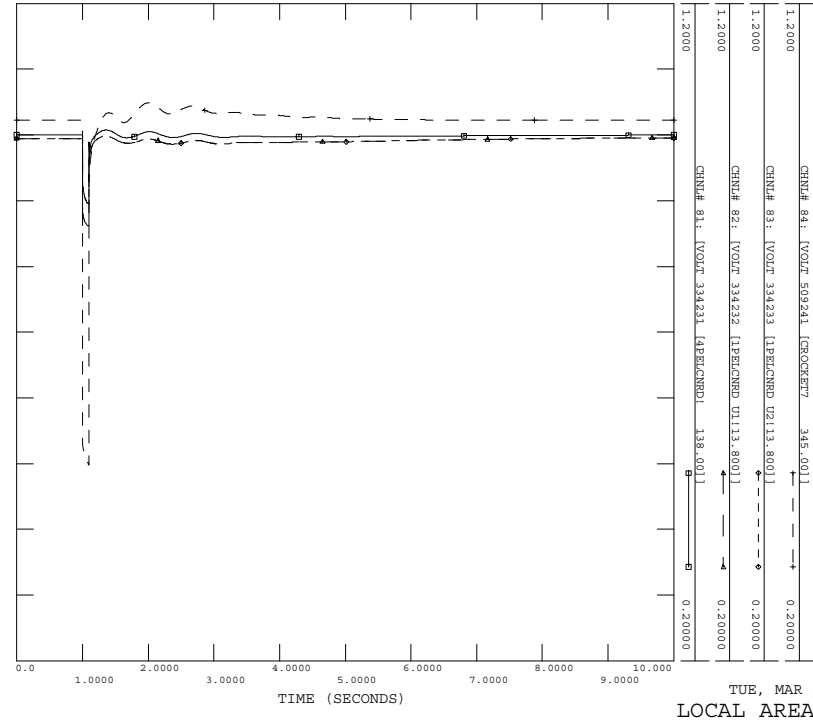
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



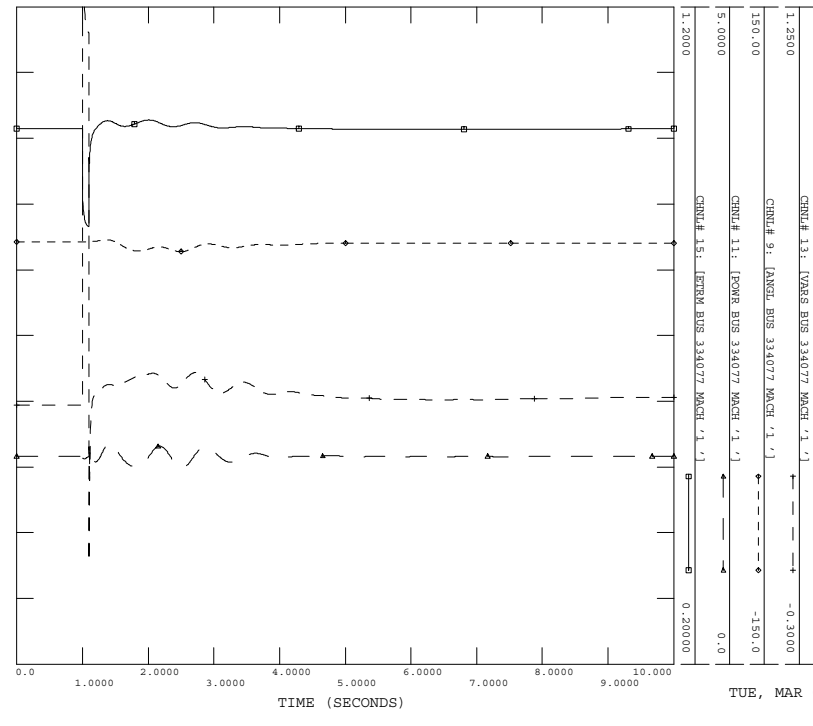
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



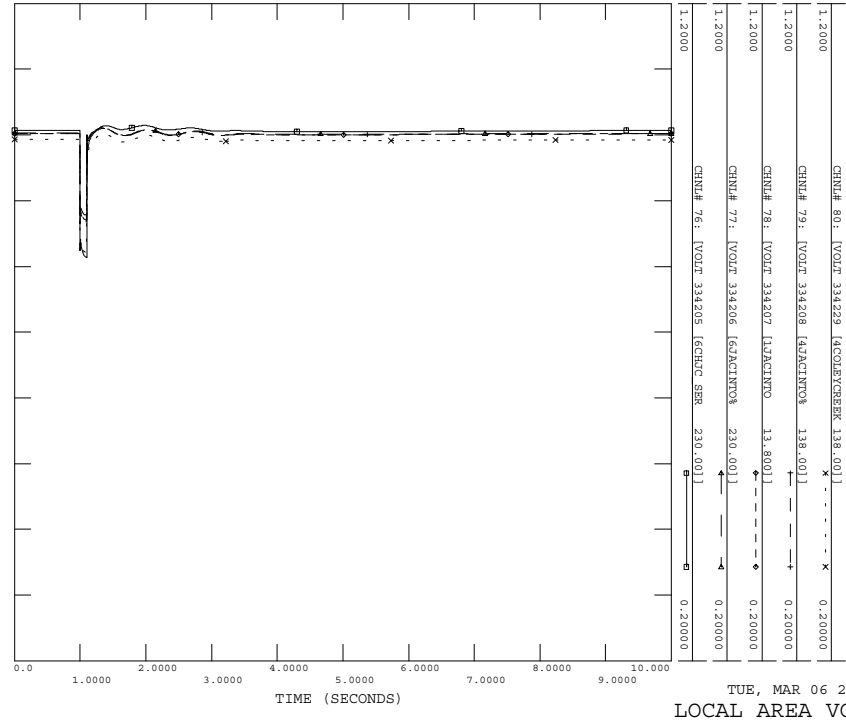
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



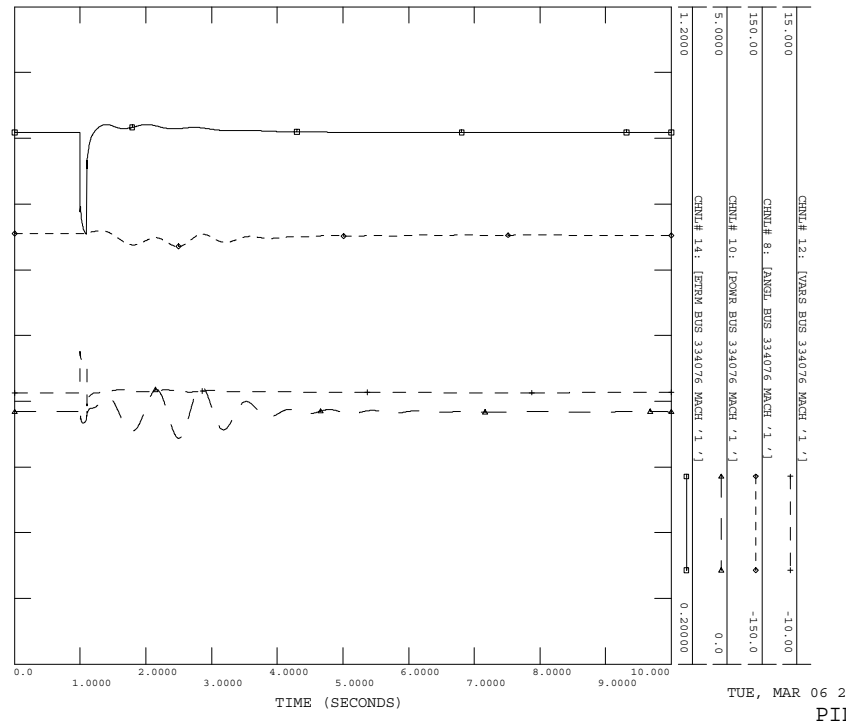
6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT



6CY 3PH FAULT GRIMES - NAVASOTA 138 KV  
 TRIP GRIMES - NAVASOTA 138 KV  
 FILE: Fault-15.OUT

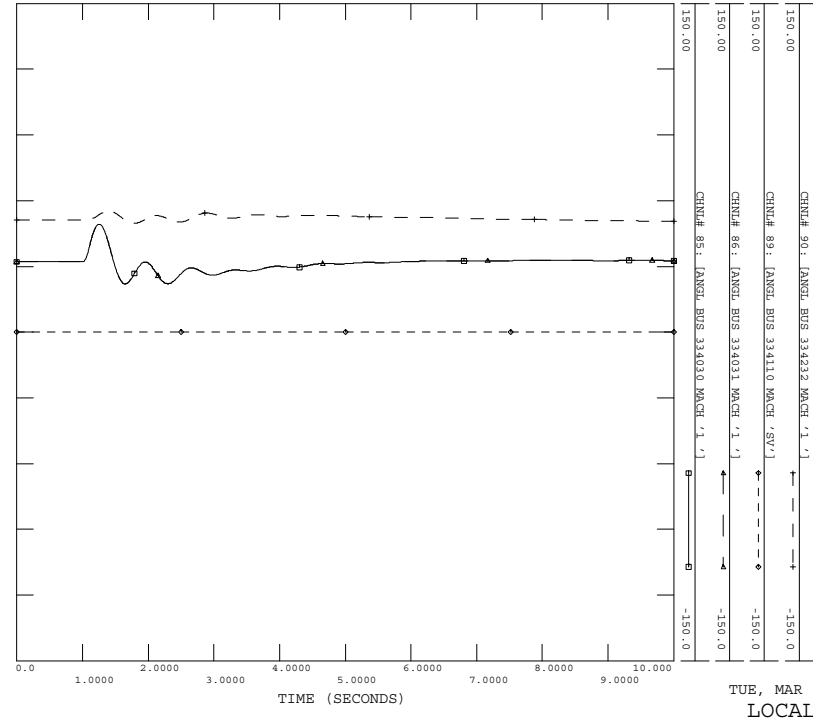


### **C.1.16      FAULT-16**

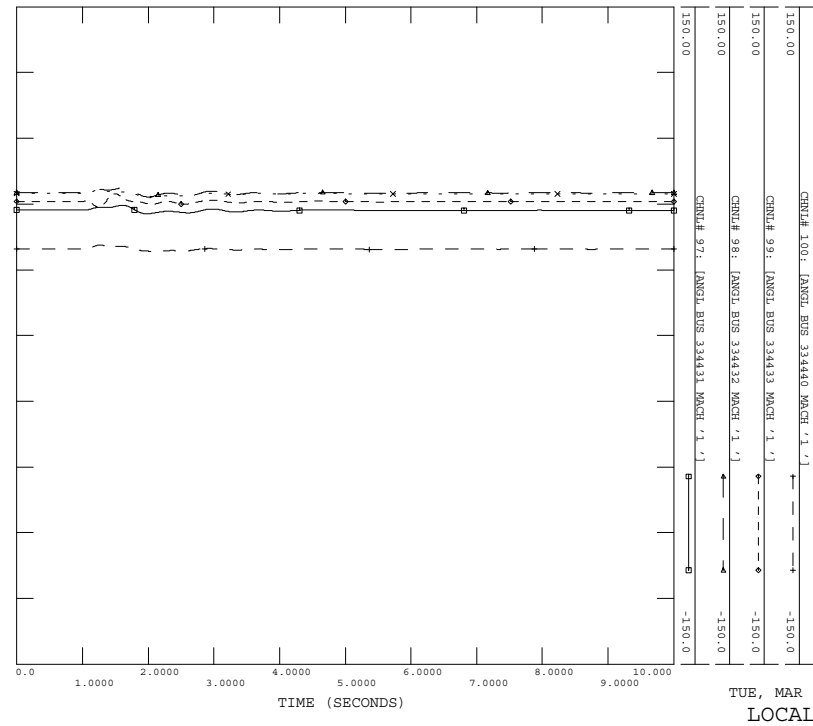
3 phase fault on the Grimes – College Station Jn 138 kV

- a) Apply fault at Grimes 138kV bus
- b) Clear fault after 6 cycles by tripping the Grimes – College Station Jn 138 kV

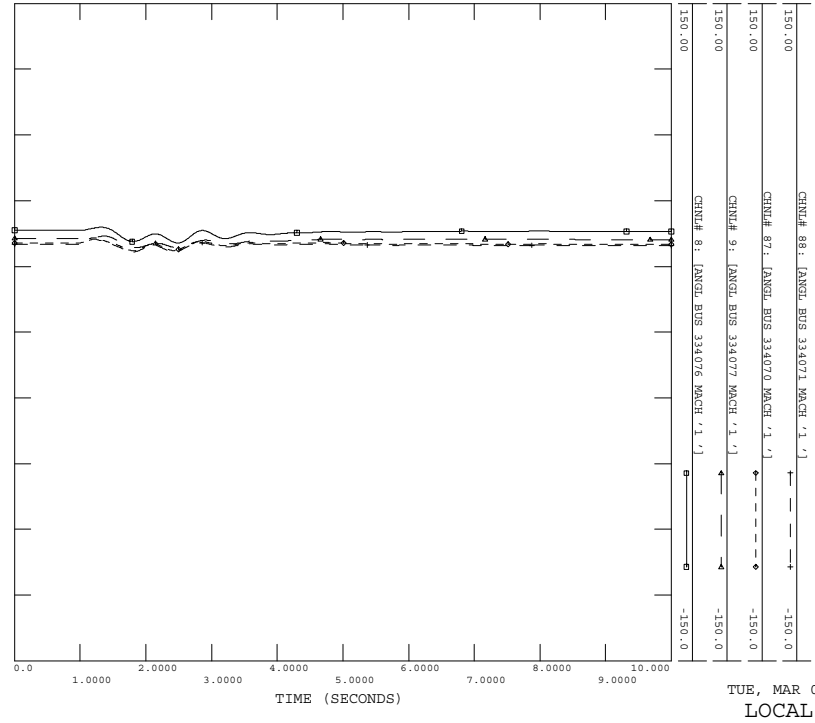
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 COLLEGE STATION JN 138 KV  
 TRIP GRIMES -  
 FILE: Fault-16.OUT



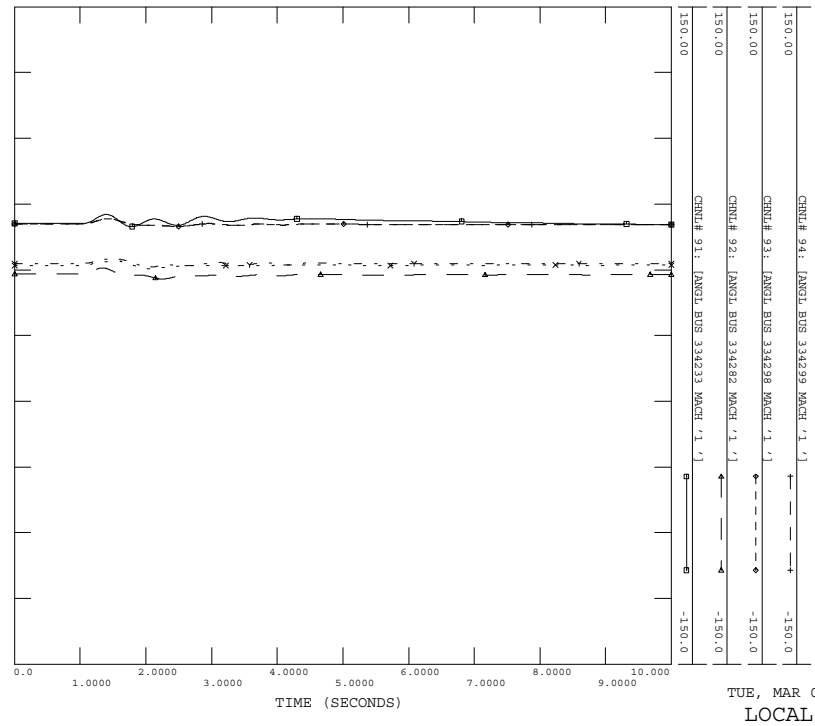
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 COLLEGE STATION JN 138 KV  
 TRIP GRIMES -  
 FILE: Fault-16.OUT



6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 COLLEGE STATION JN 138 KV  
 TRIP GRIMES -  
 FILE: Fault-16.OUT

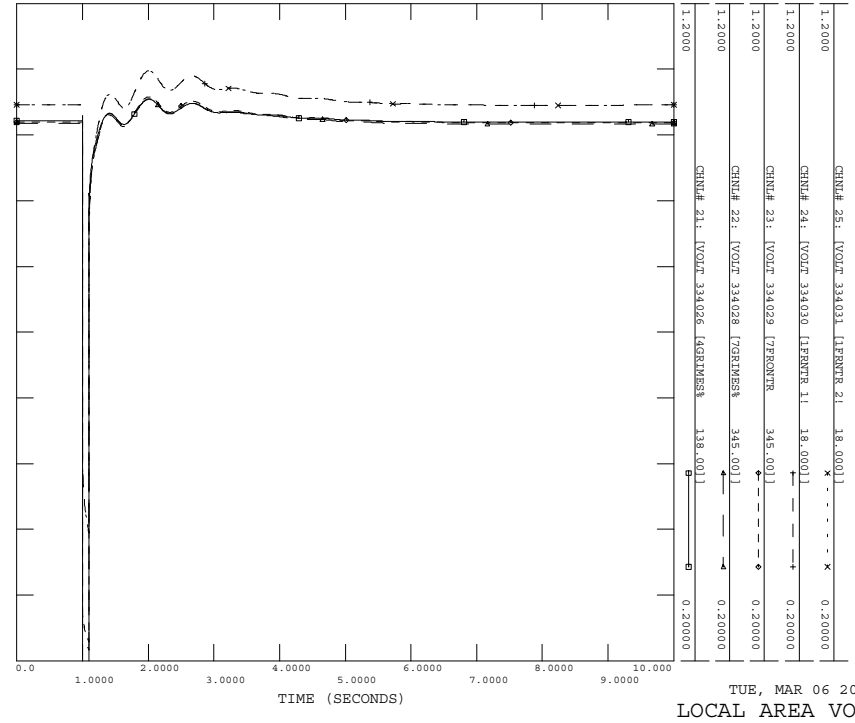


6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 COLLEGE STATION JN 138 KV  
 TRIP GRIMES -  
 FILE: Fault-16.OUT

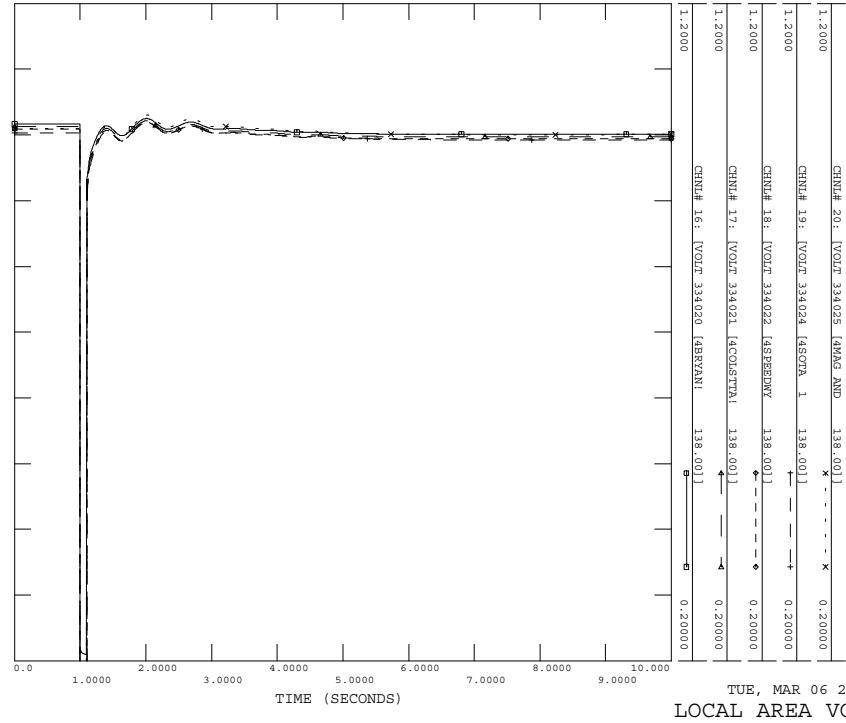




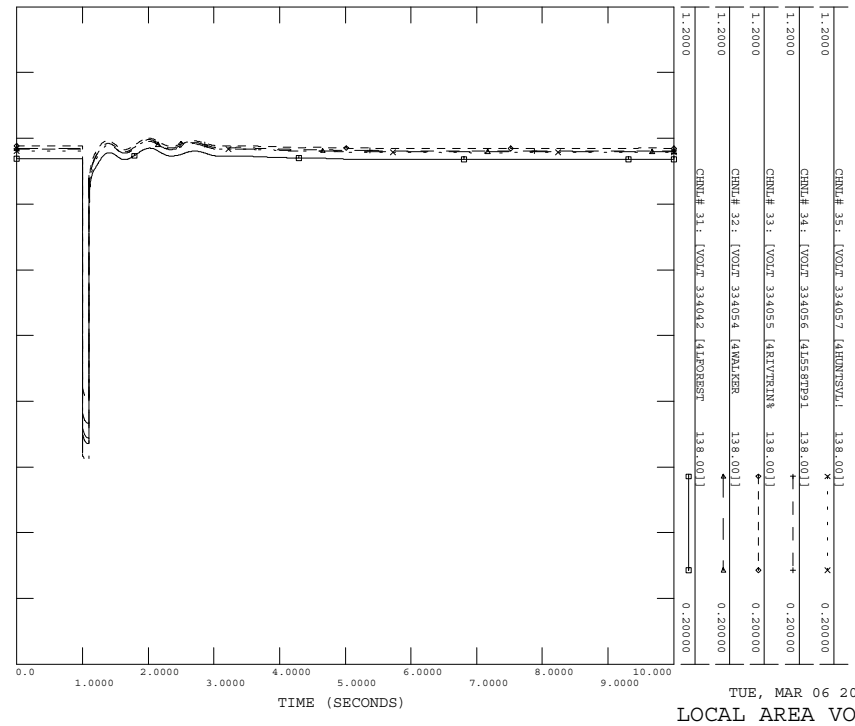
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



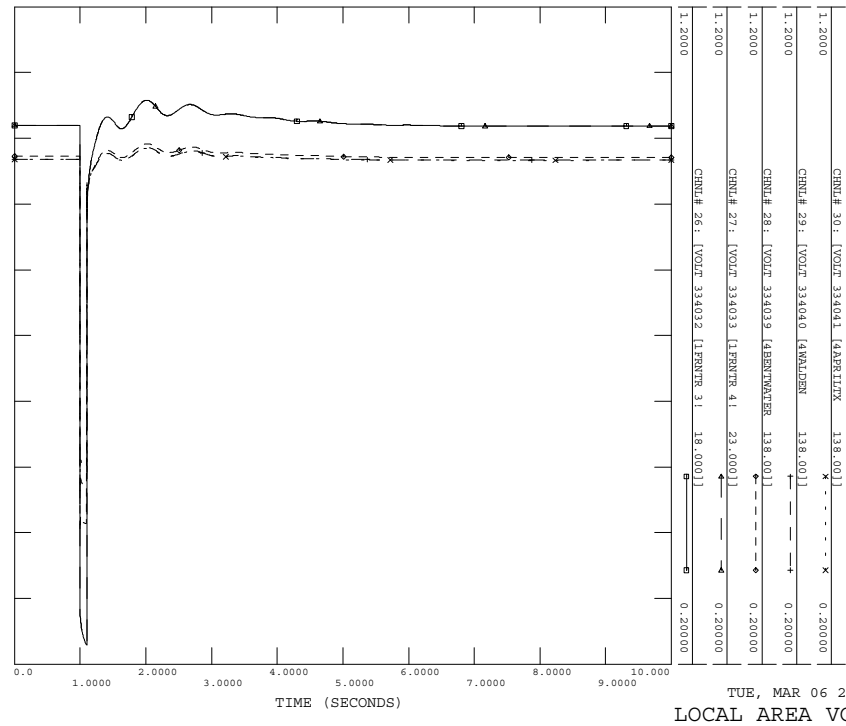
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



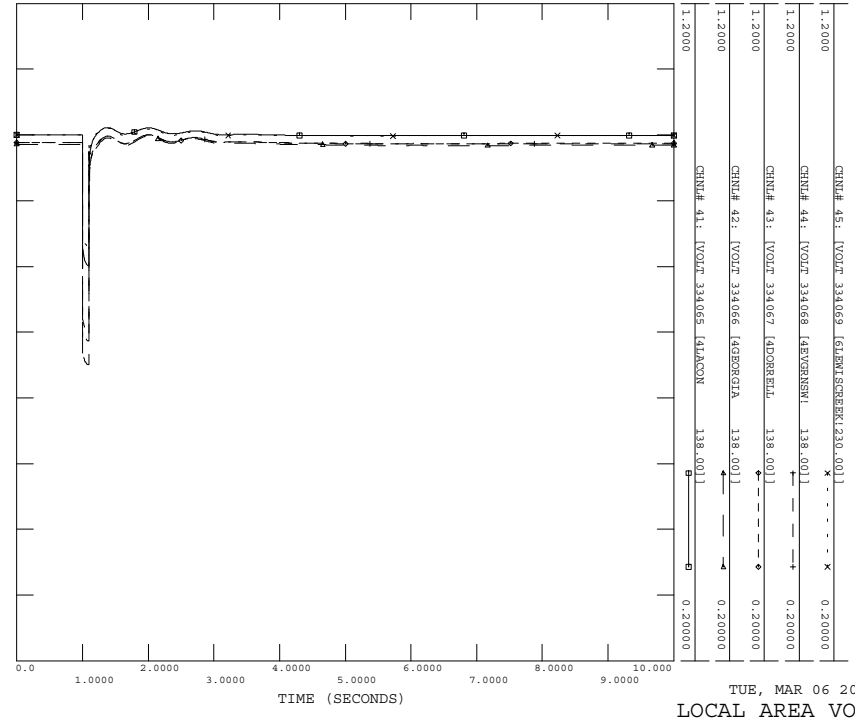
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



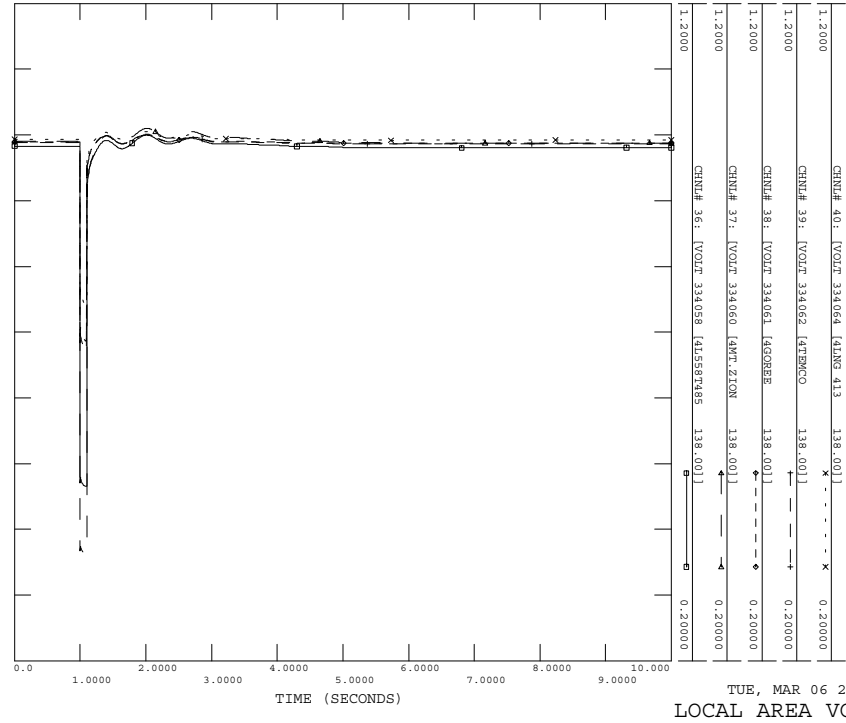
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



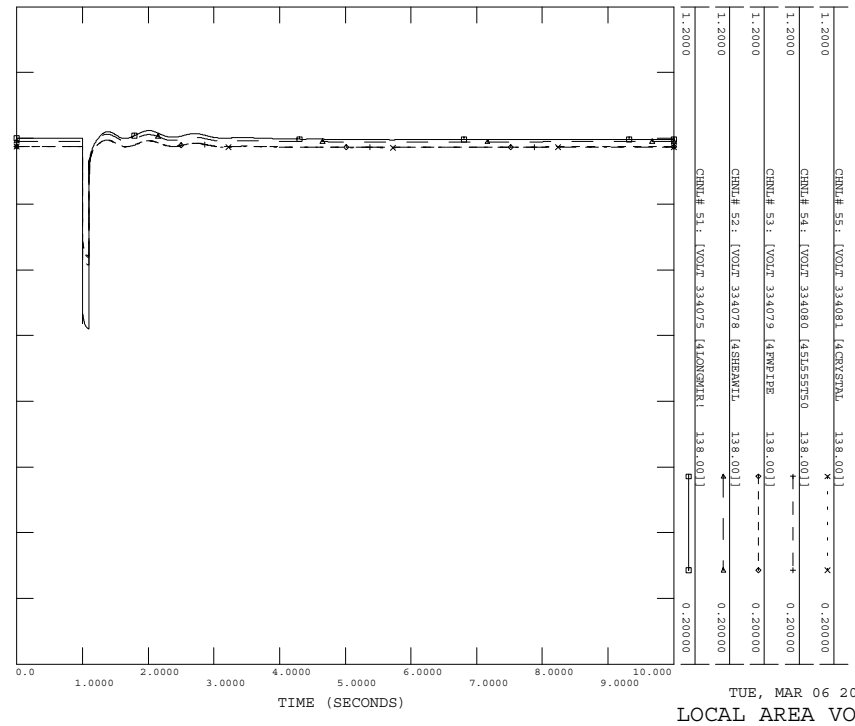
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



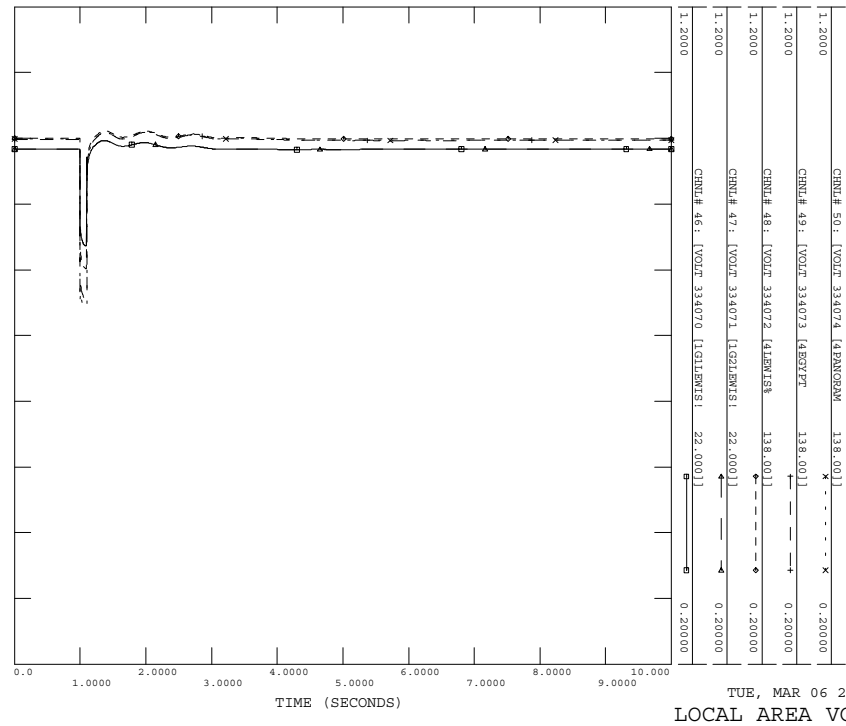
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



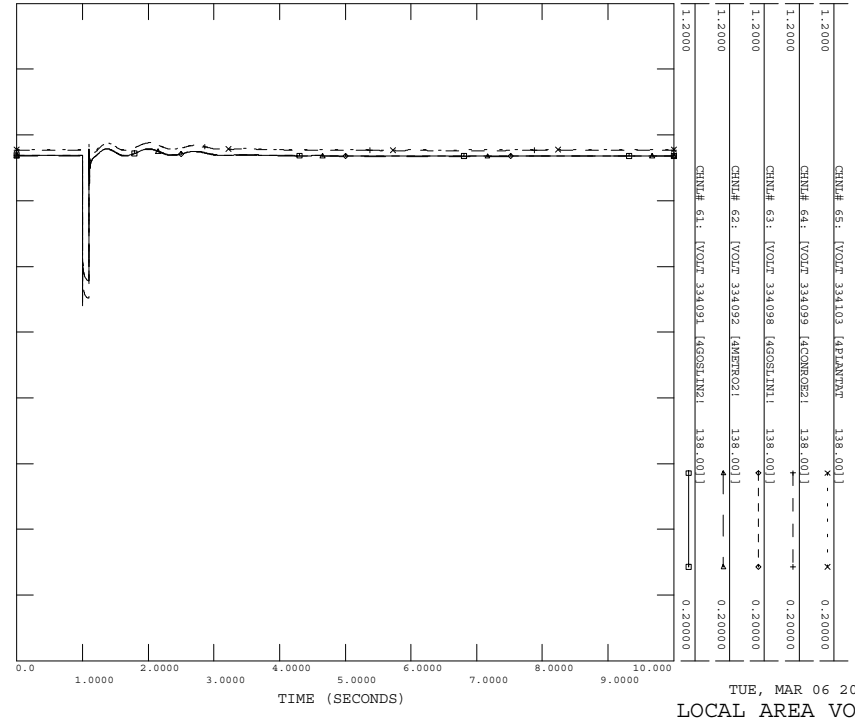
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



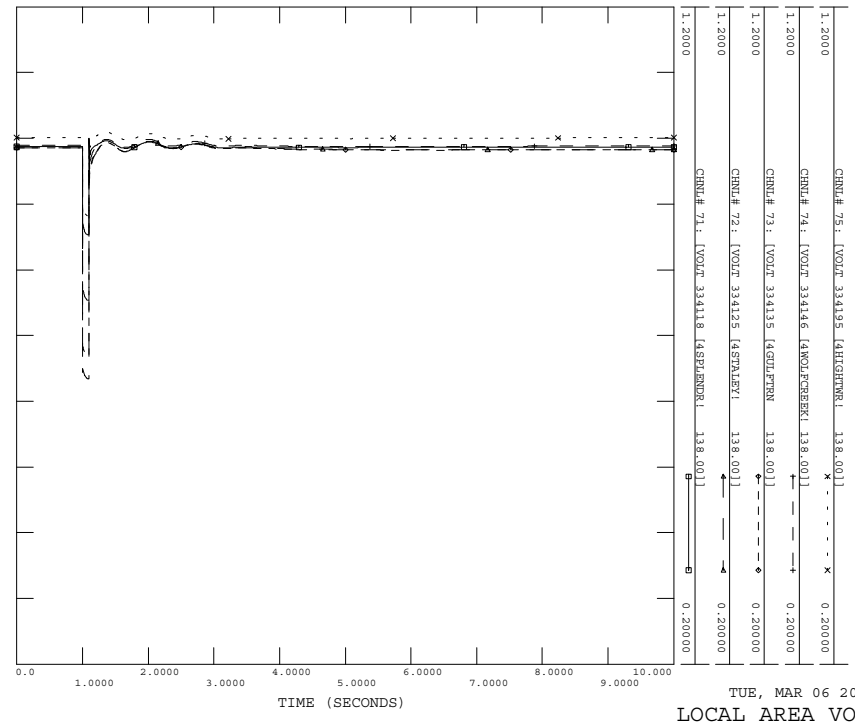
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



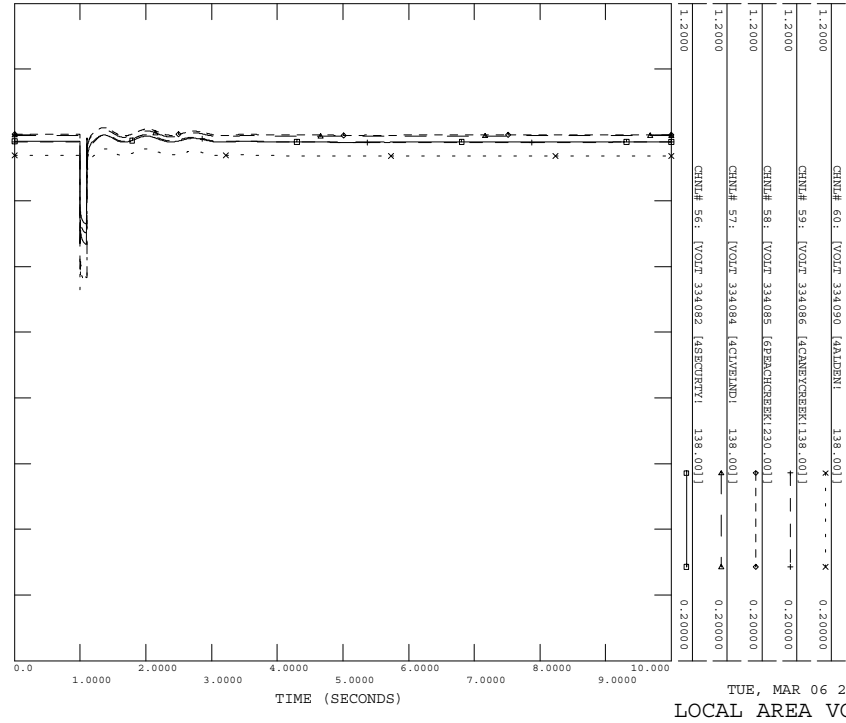
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



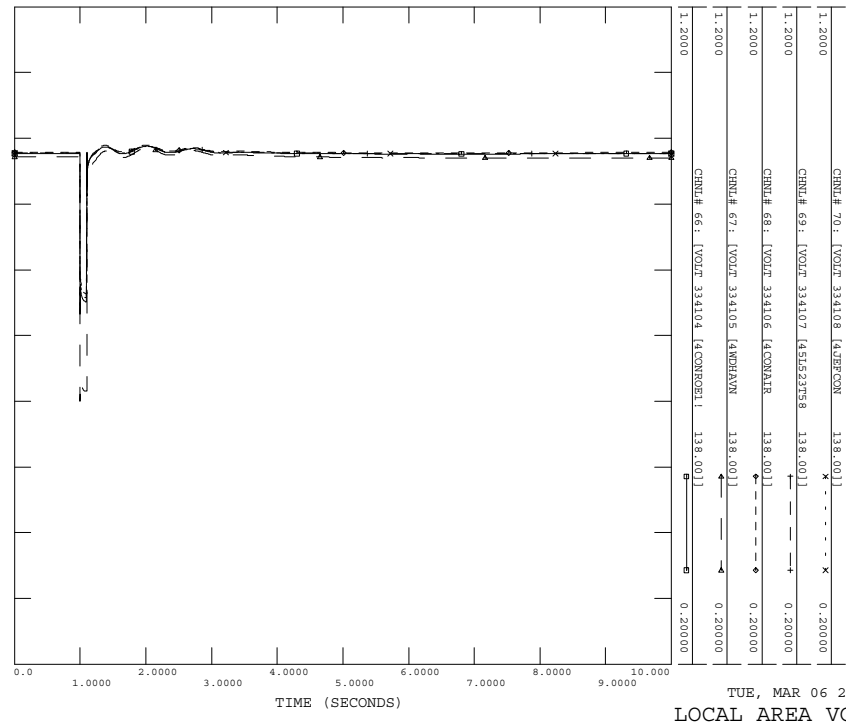
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



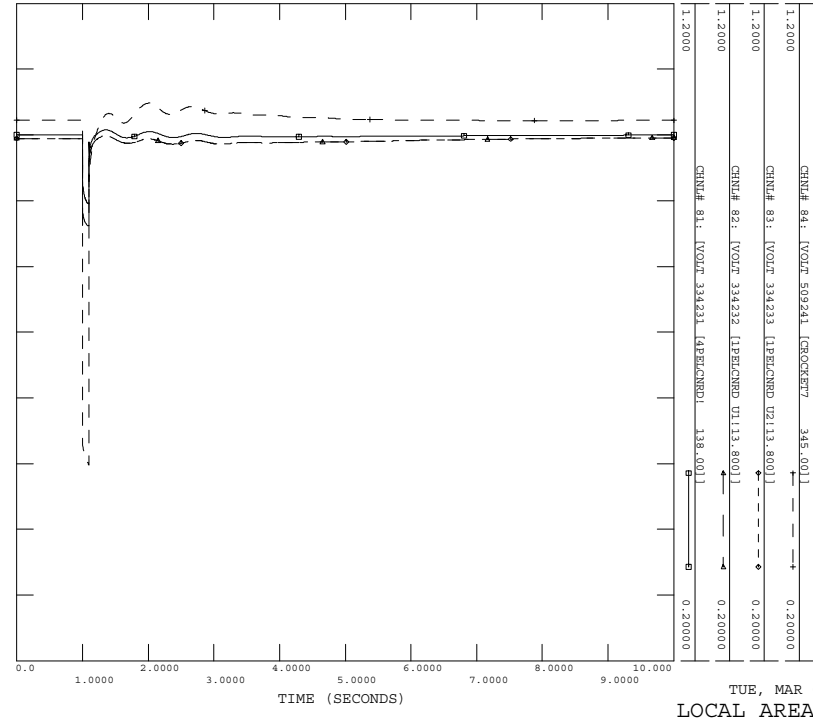
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



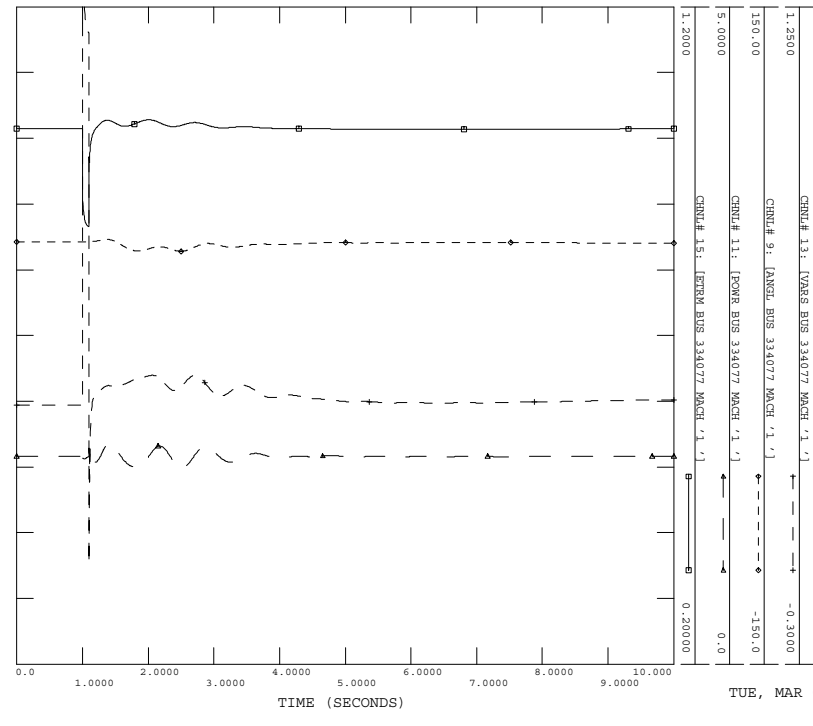
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



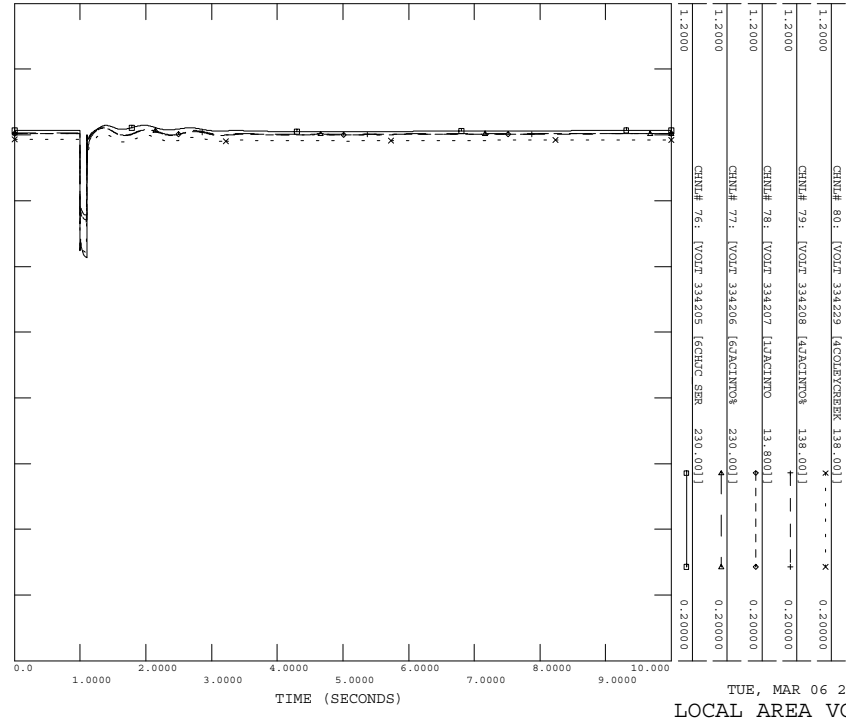
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



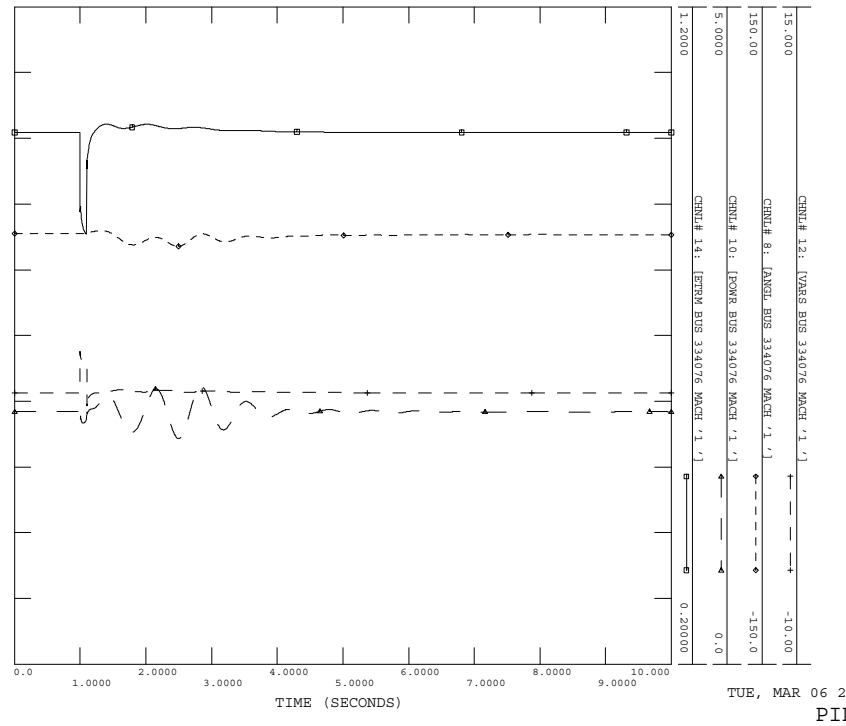
6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT



6CY 3PH FAULT GRIMES - COLLEGE STATION JN 138 KV  
 TRIP GRIMES - COLLEGE STATION JN 138 KV  
 FILE: Fault-16.OUT

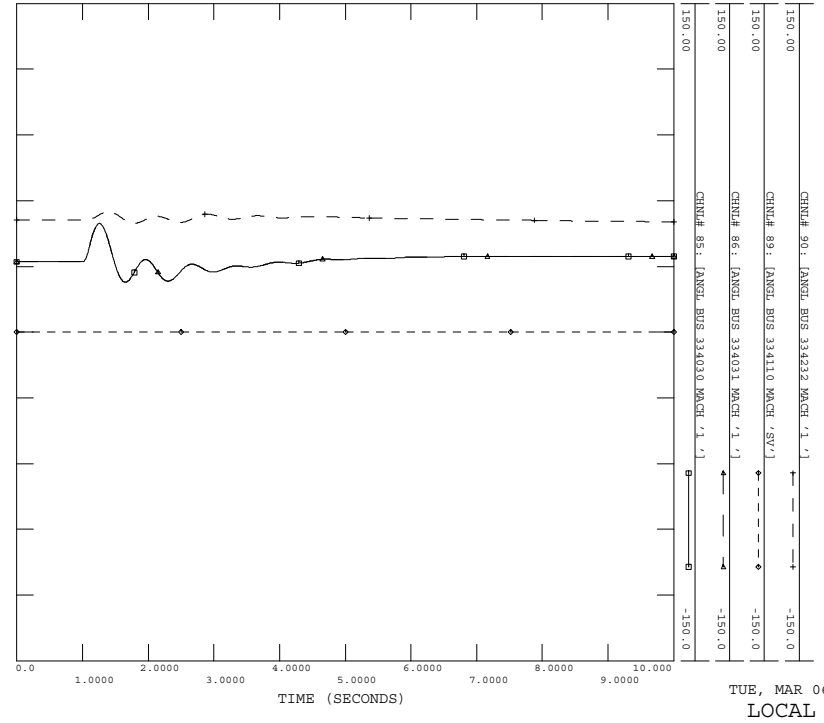


### **C.1.17      FAULT-17**

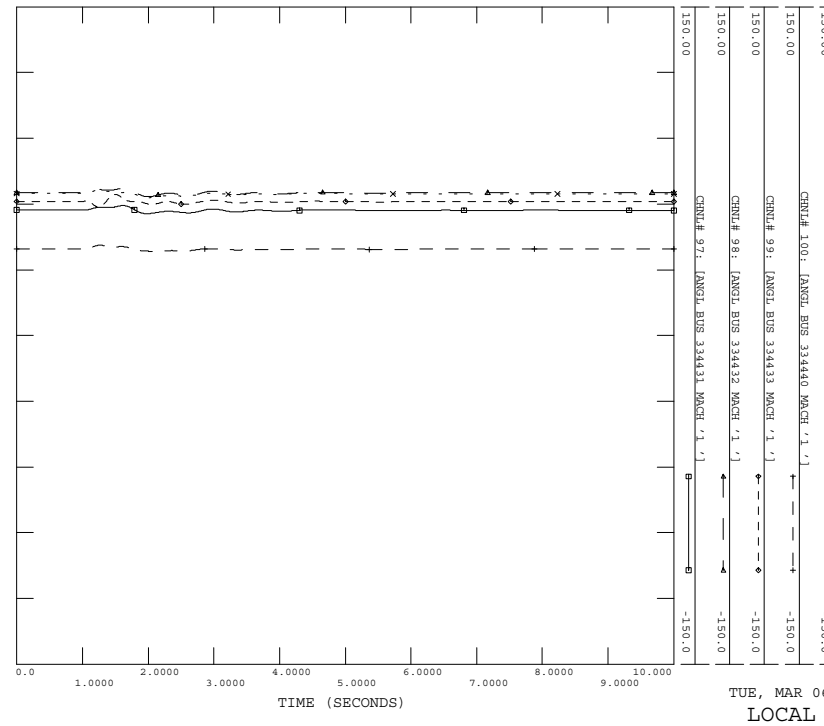
3 phase fault on the Grimes 345/138 kV auto trafo-1

- a) Apply fault at Grimes 138kV bus
- b) Clear fault after 6 cycles by tripping the Grimes 345/138 kV auto trafo-1

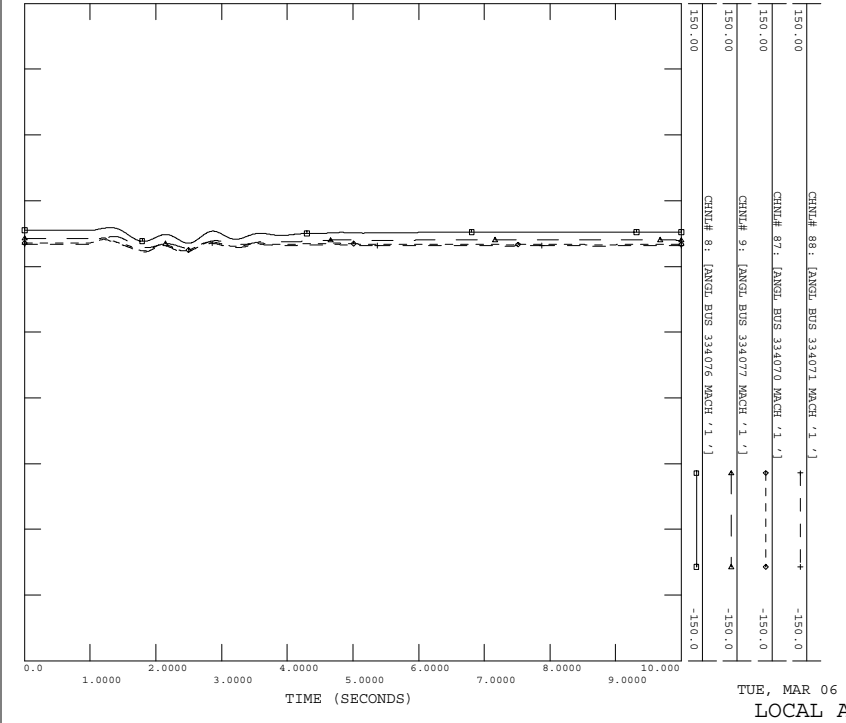
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



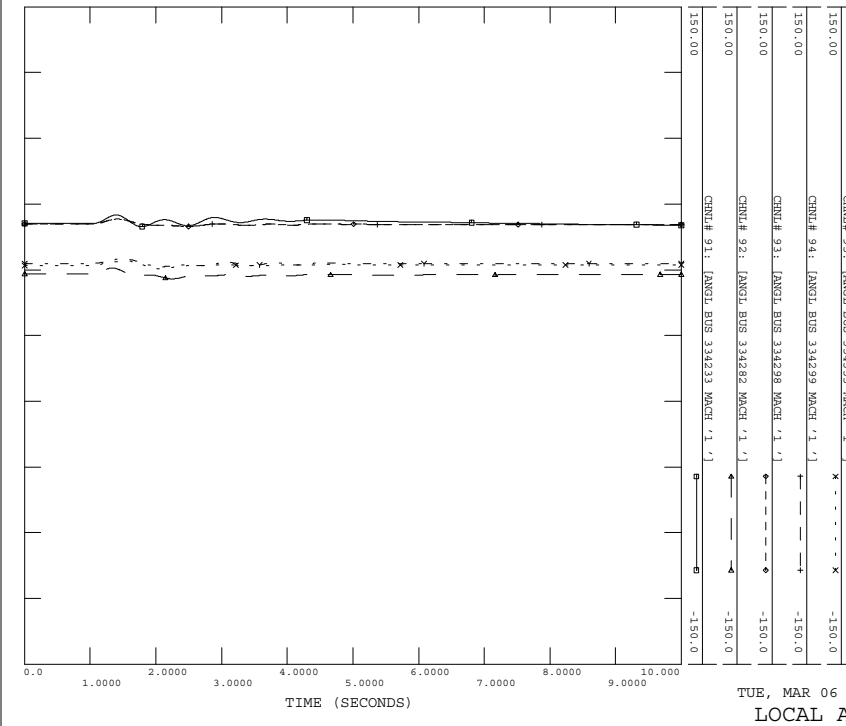
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



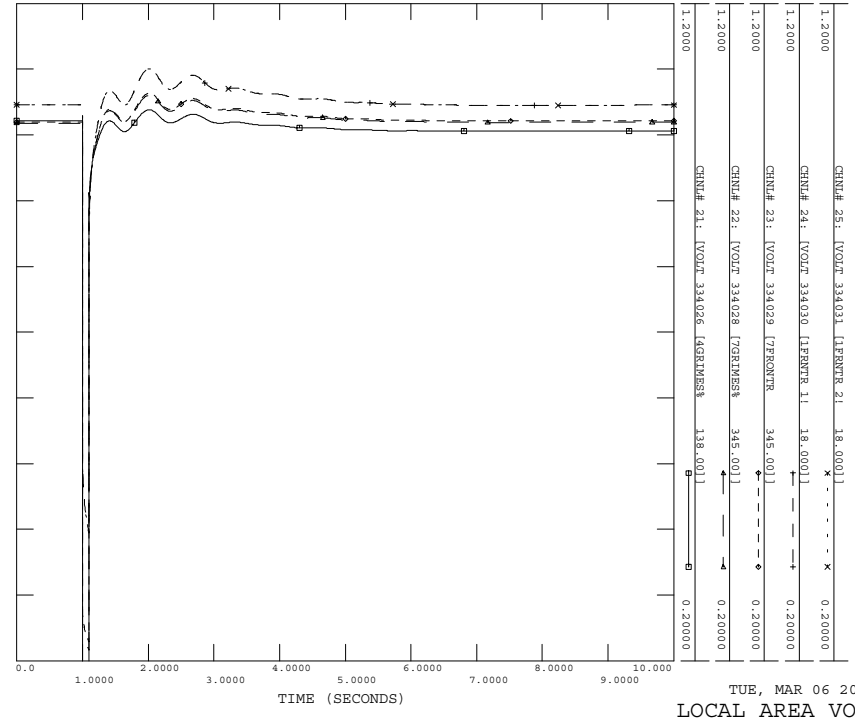
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



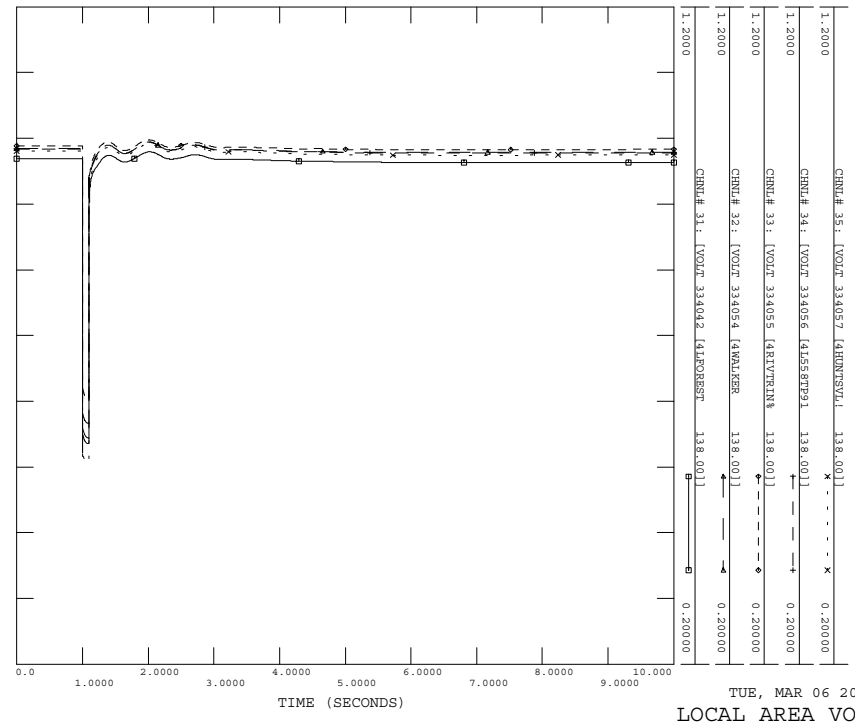
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



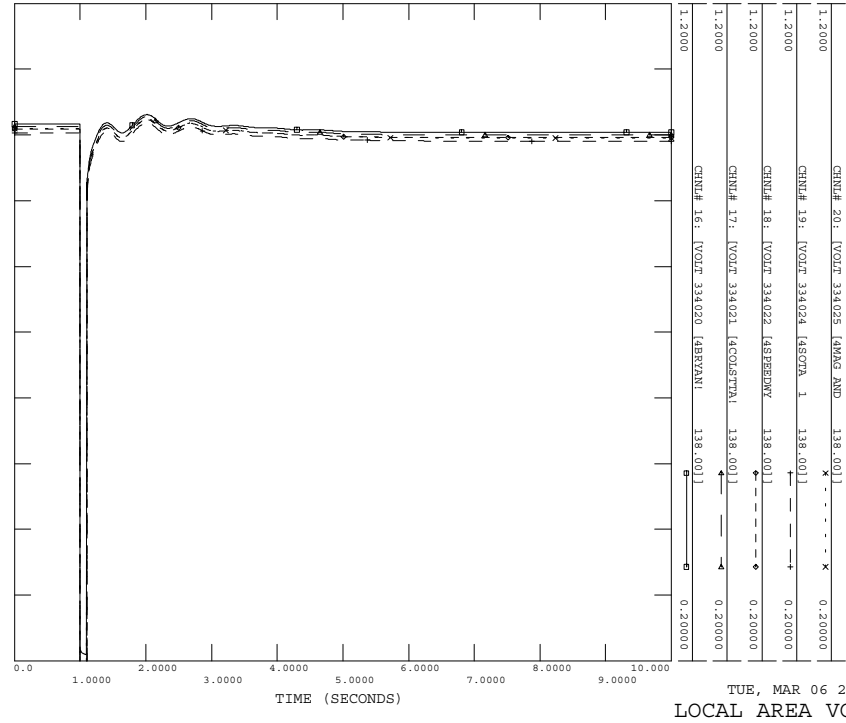
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



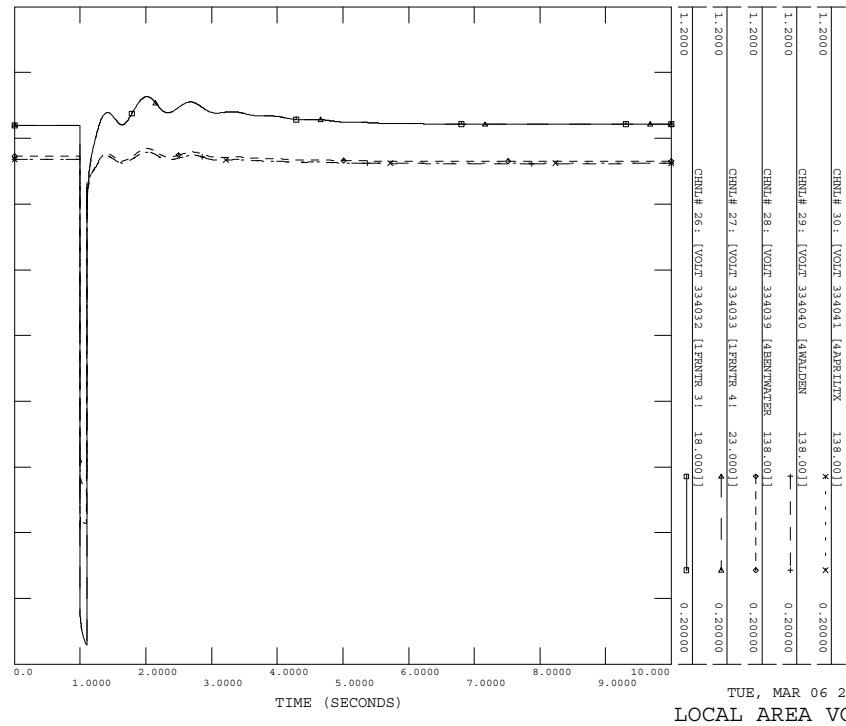
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



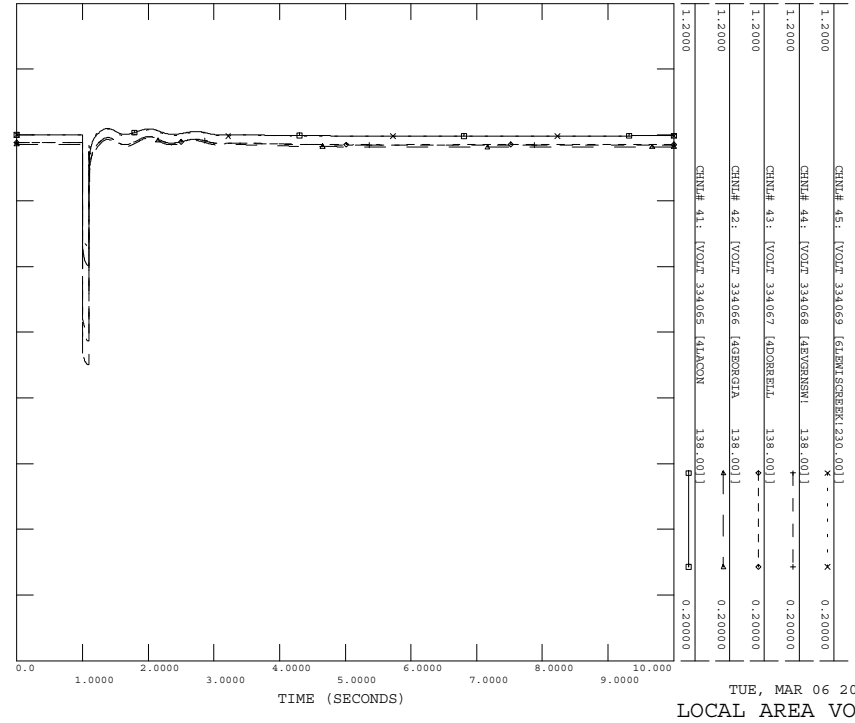
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



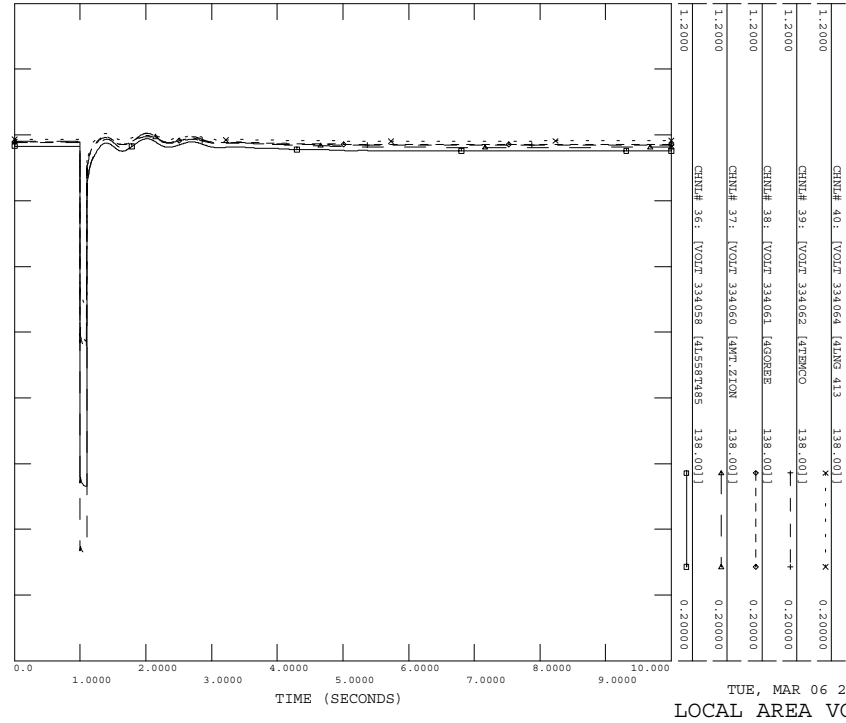
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



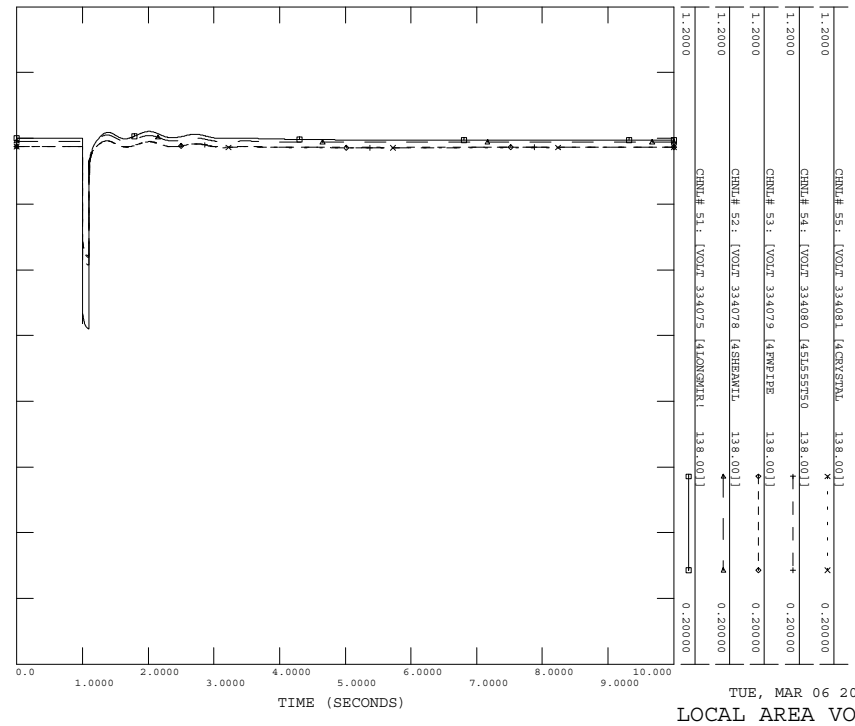
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



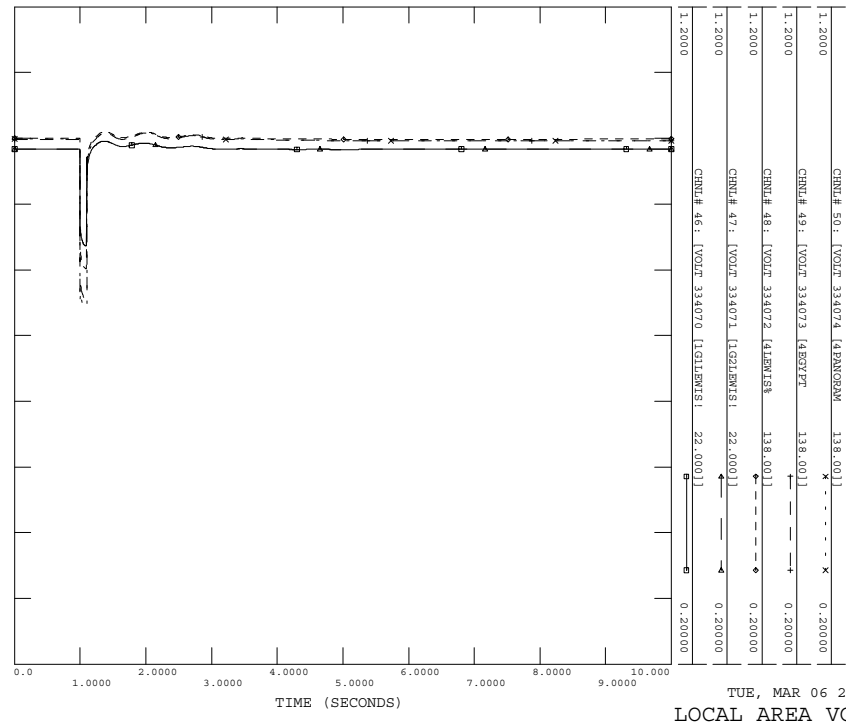
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT

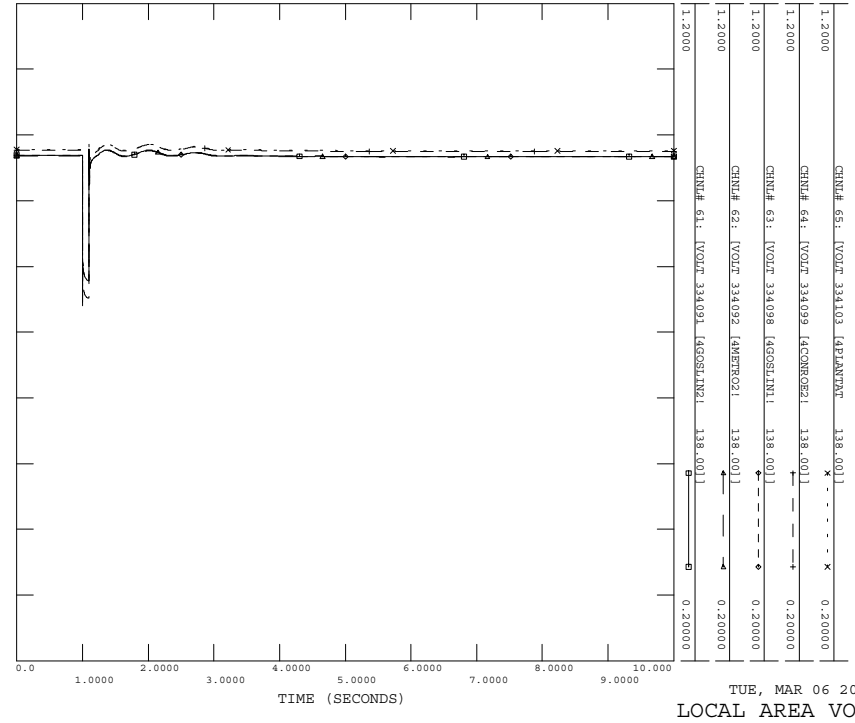


6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT

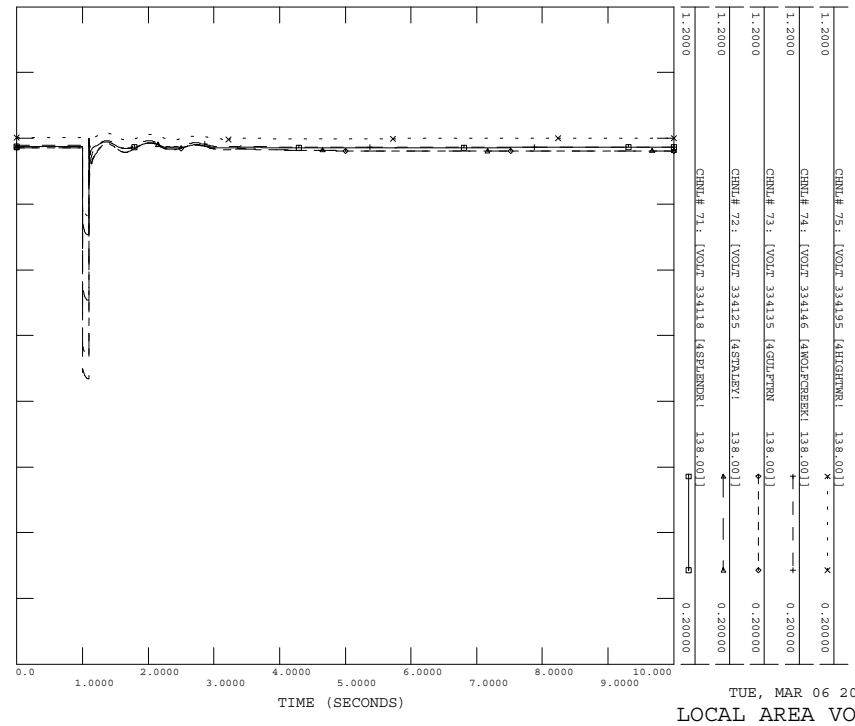




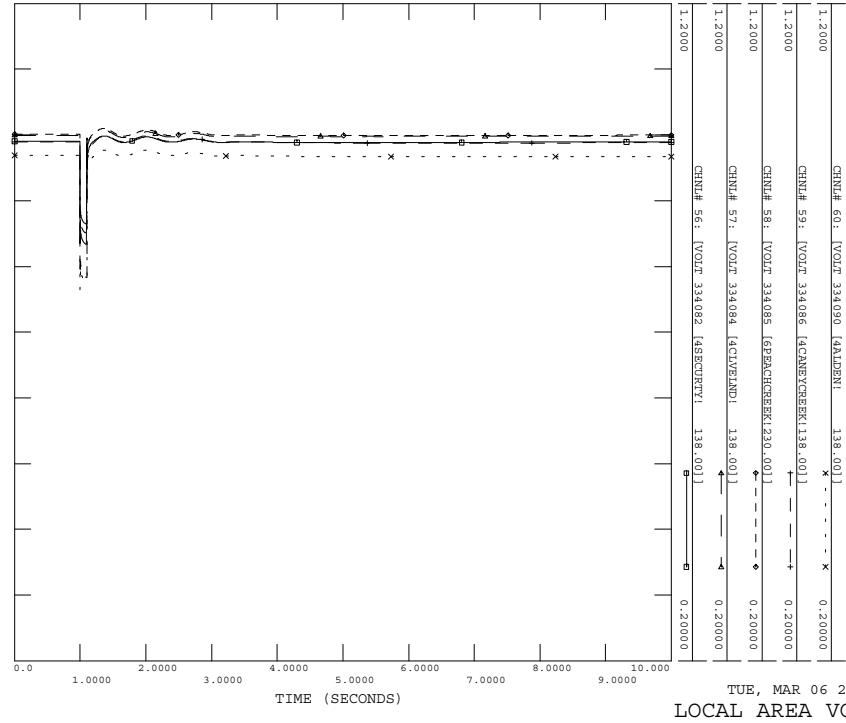
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



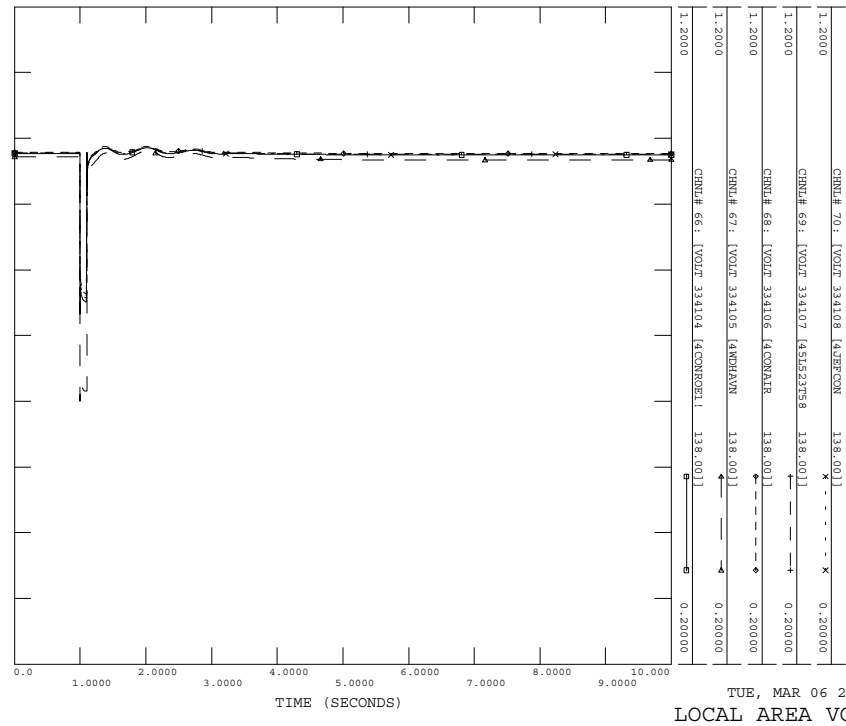
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



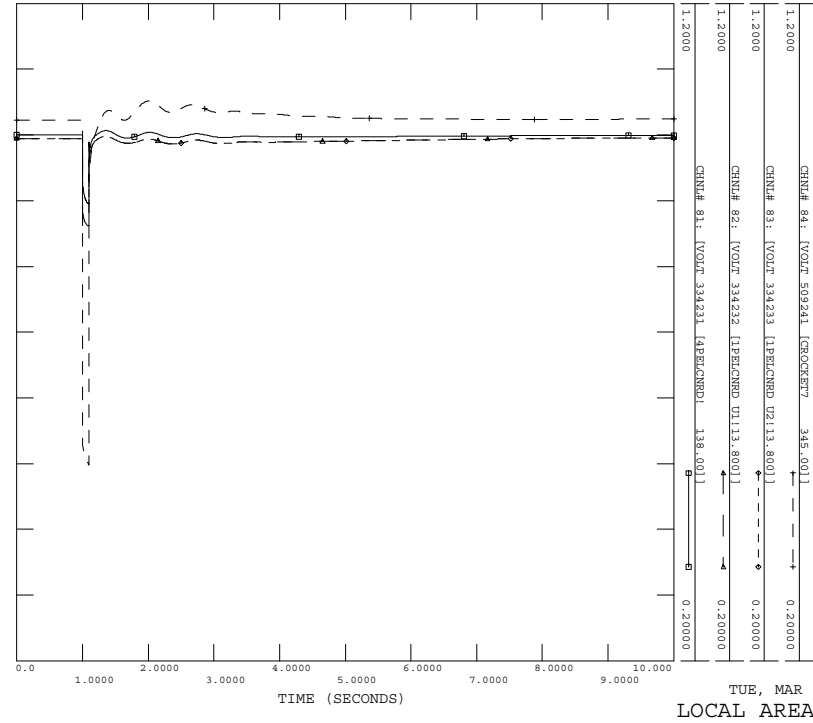
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



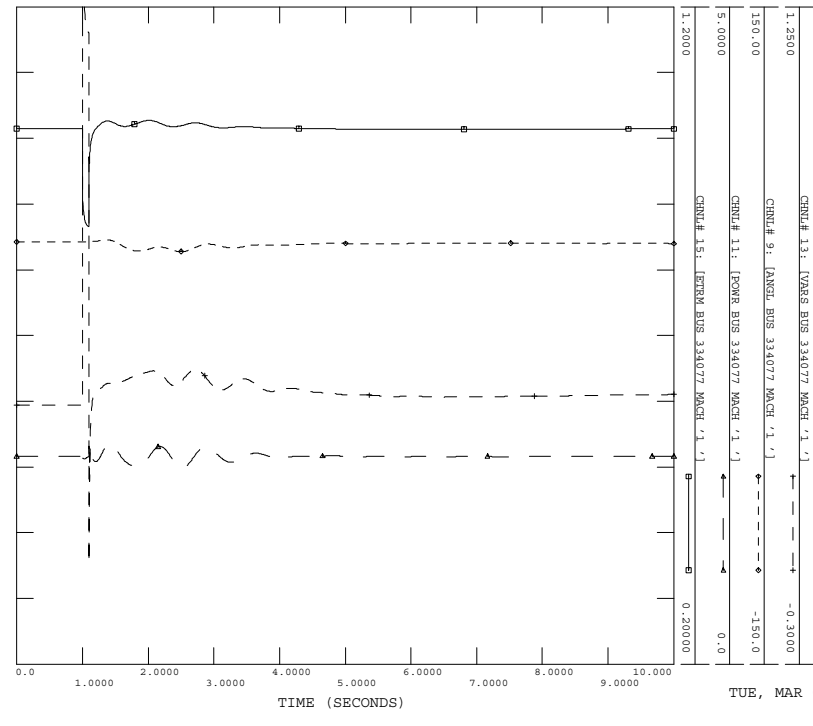
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
 TRIP GRIMES 345/138 KV AUTO TRAF0-1  
 FILE: Fault-17.OUT



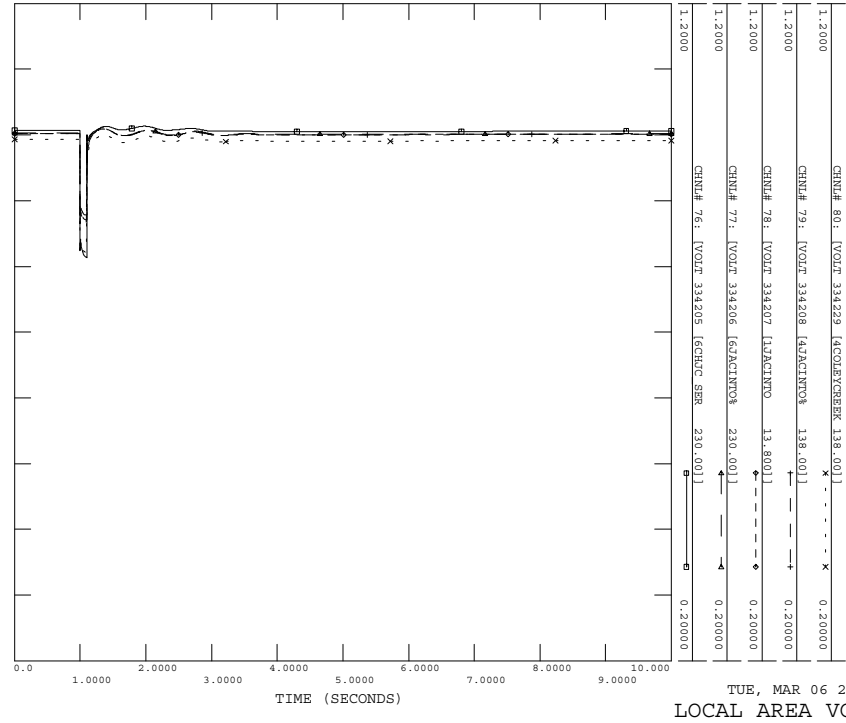
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
TRIP GRIMES 345/138 KV AUTO TRAF0-1  
FILE: Fault-17.OUT



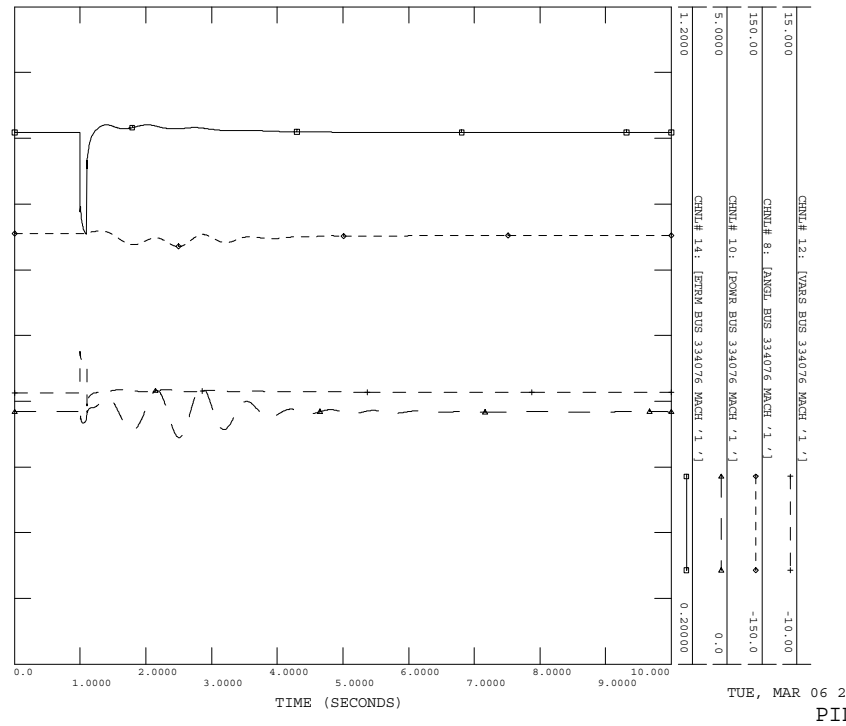
6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
TRIP GRIMES 345/138 KV AUTO TRAF0-1  
FILE: Fault-17.OUT



6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
TRIP GRIMES 345/138 KV AUTO TRAF0-1  
FILE: Fault-17.OUT



6CY 3PH FAULT GRIMES 345/138 KV AUTO TRAF0-1  
TRIP GRIMES 345/138 KV AUTO TRAF0-1  
FILE: Fault-17.OUT

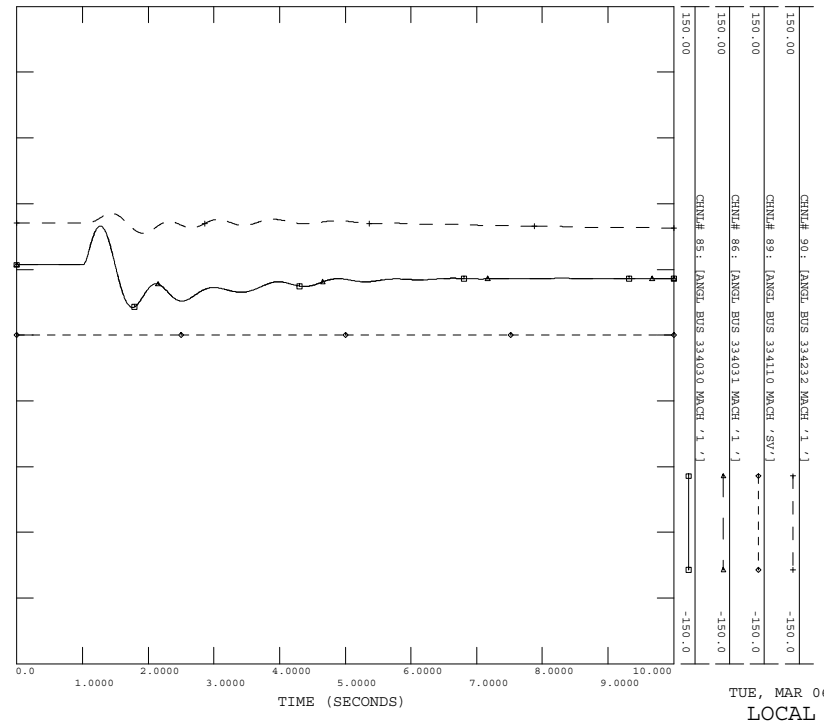


### **C.1.18 FAULT-18**

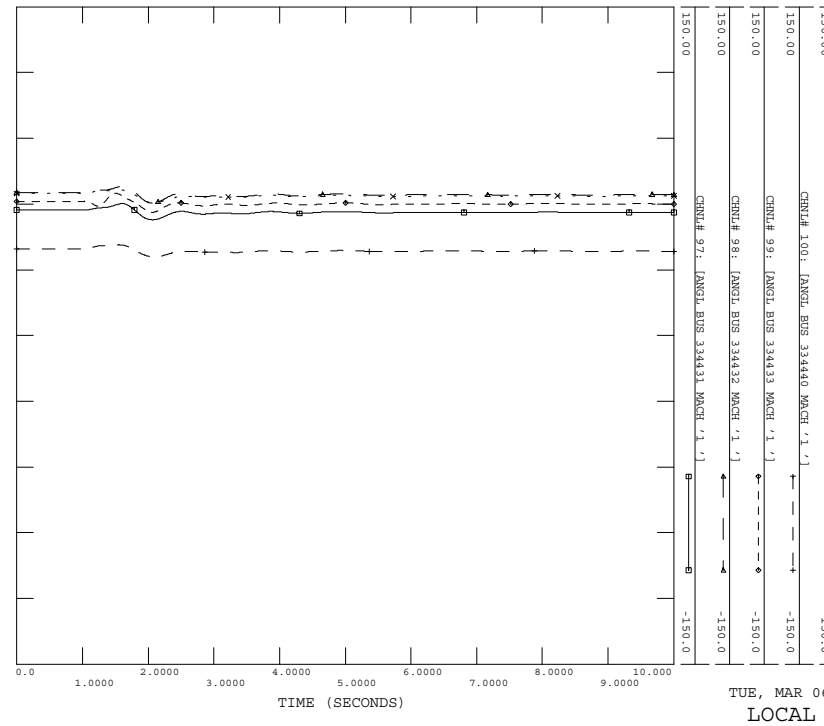
3 phase fault on the Grimes – Swepeco Crockett 345 kV

- a) Apply fault at Grimes 345kV bus
- b) Clear fault after 5 cycles by tripping the Grimes – Swepeco Crockett 345 kV

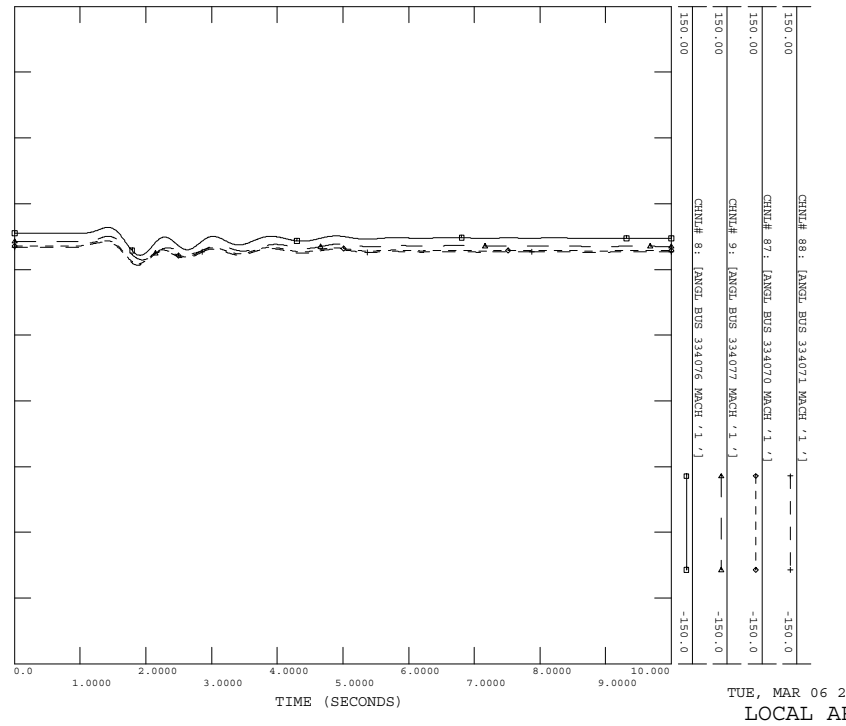
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



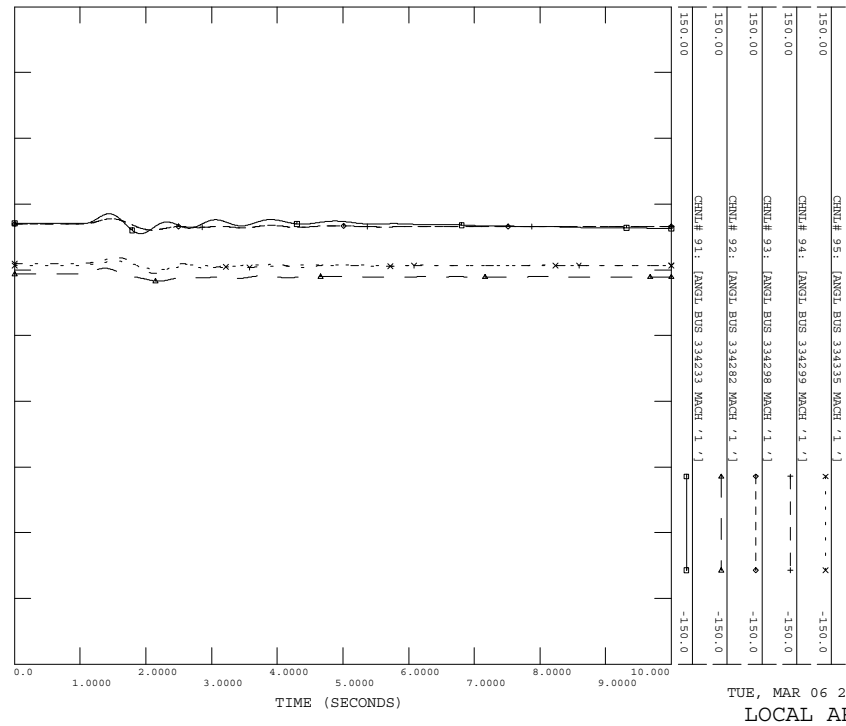
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



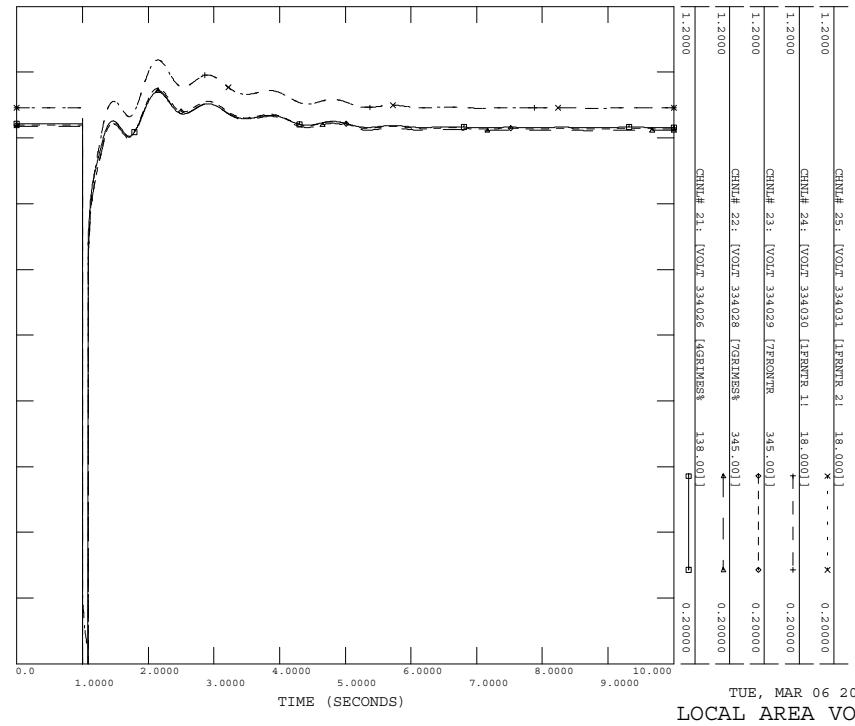
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



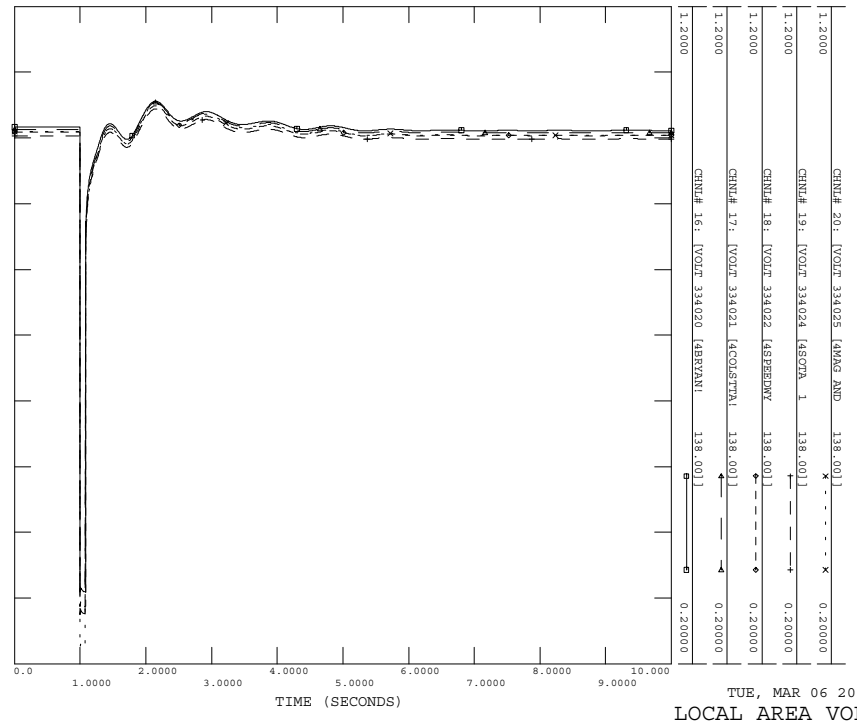
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



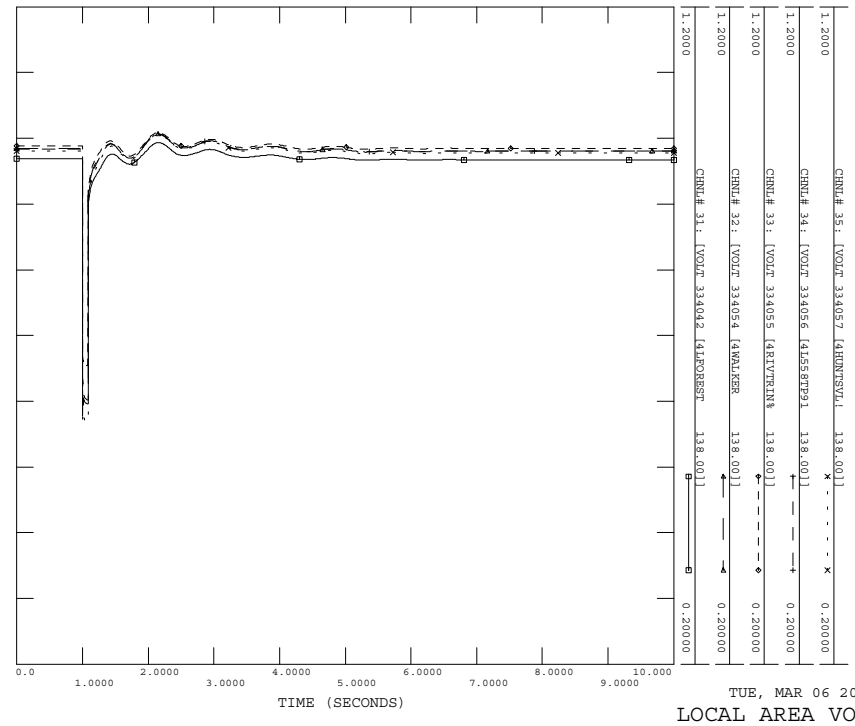
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18\_OUT



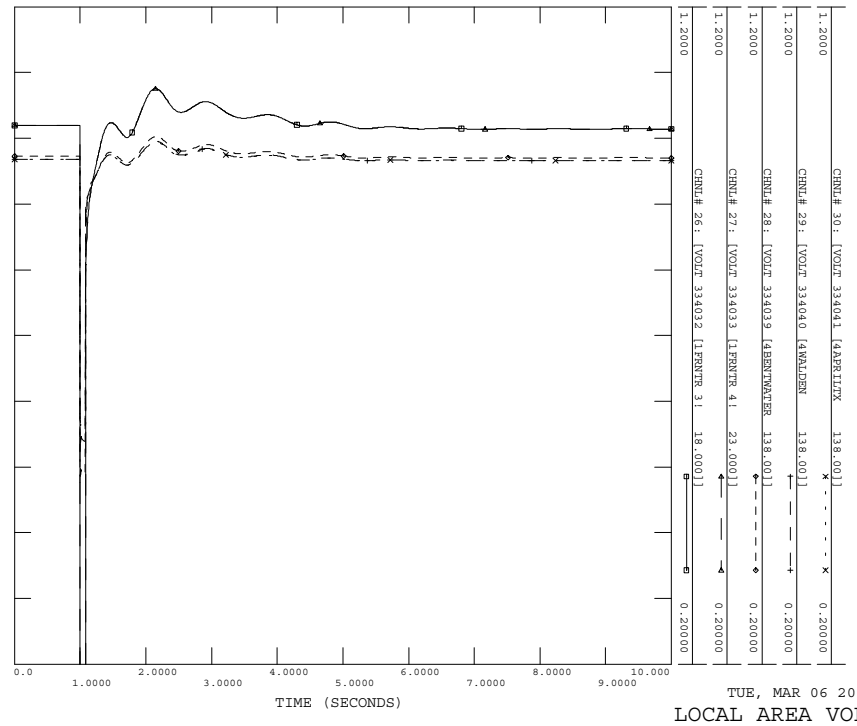
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18\_OUT



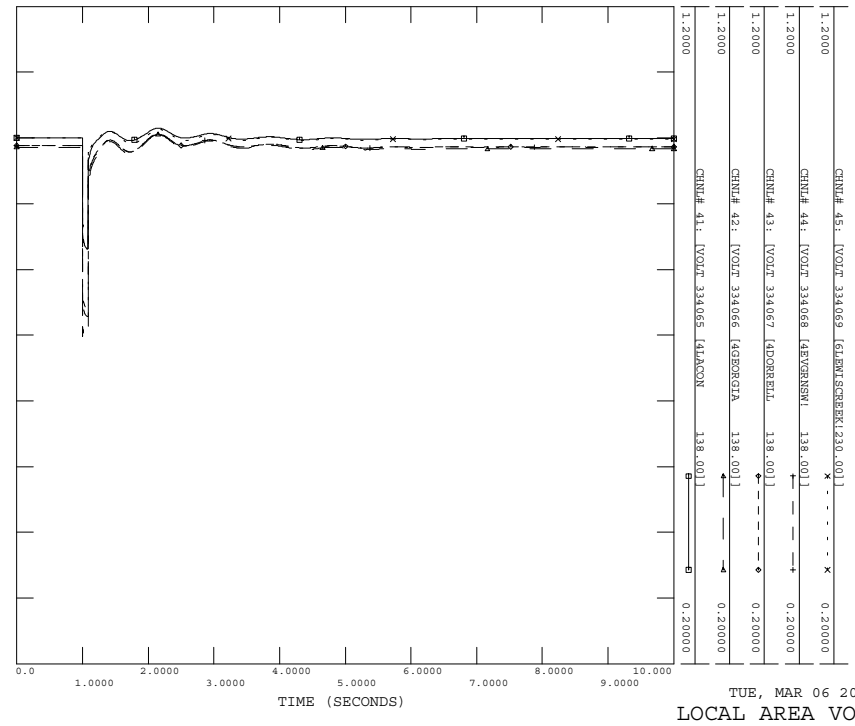
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18\_OUT



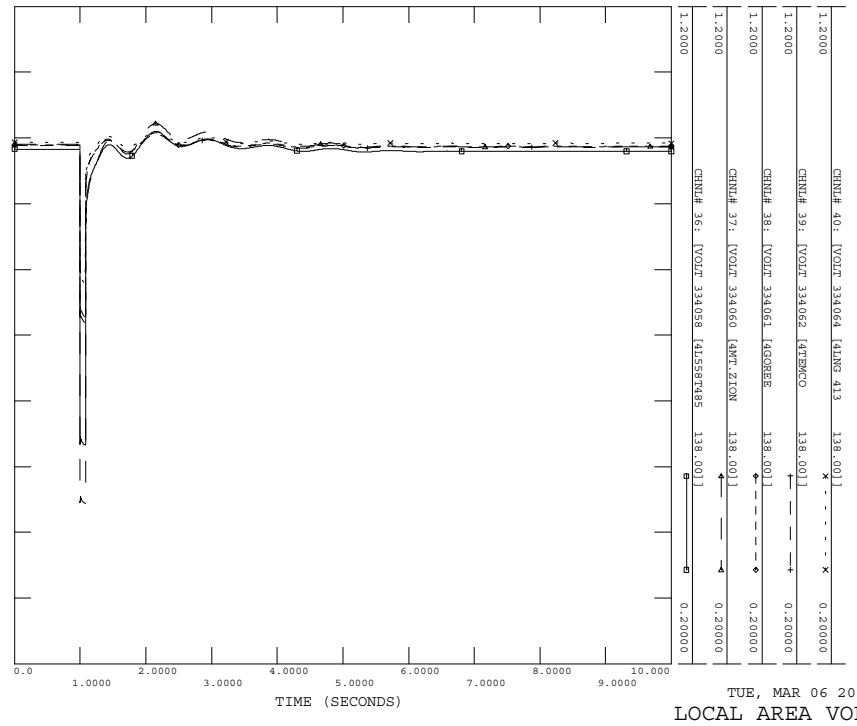
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18\_OUT



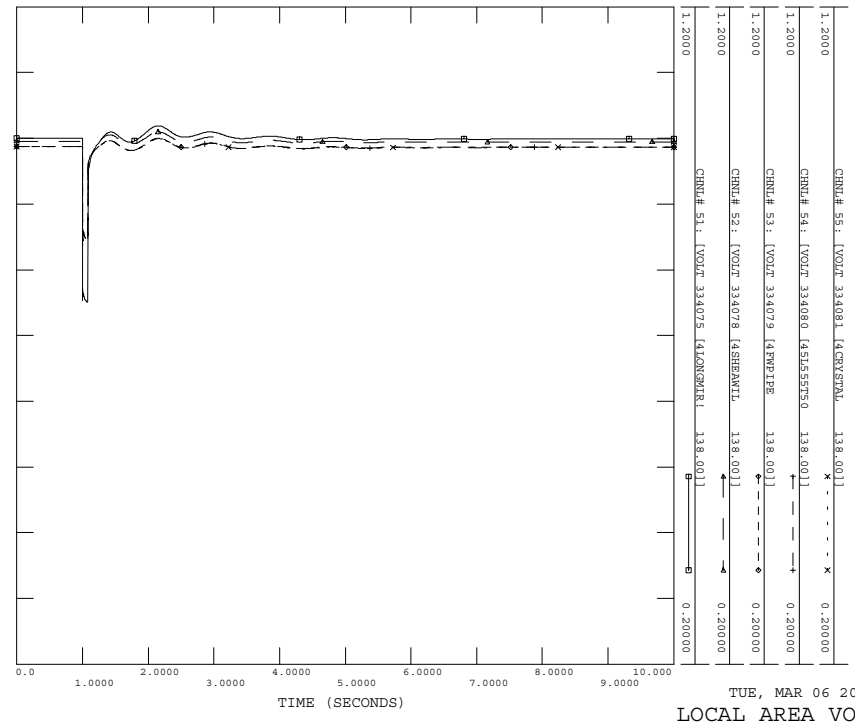
6CY 3PH FAULT GRIMES - SWEPKO CROCKETT 345 KV  
 TRIP GRIMES - SWEPKO CROCKETT 345 KV  
 FILE: Fault-18.OUT



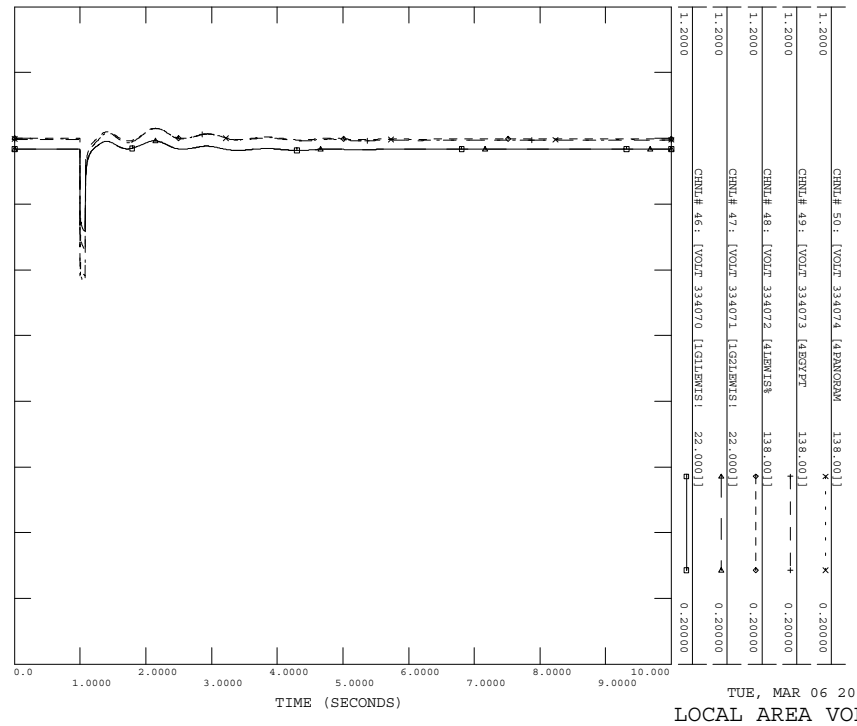
6CY 3PH FAULT GRIMES - SWEPKO CROCKETT 345 KV  
 TRIP GRIMES - SWEPKO CROCKETT 345 KV  
 FILE: Fault-18.OUT



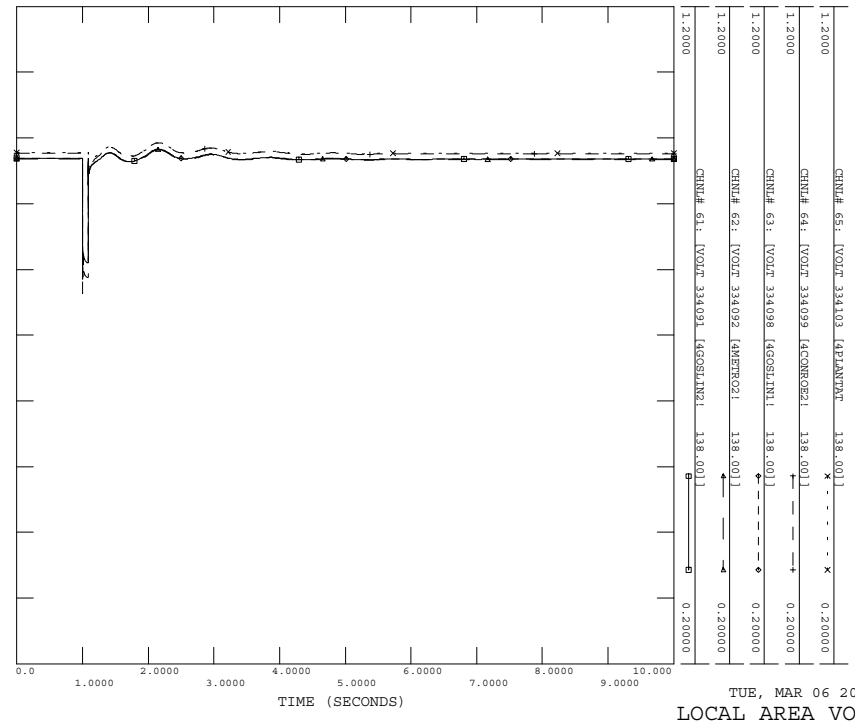
6CY 3PH FAULT GRIMES - SWEPKO CROCKETT 345 KV  
 TRIP GRIMES - SWEPKO CROCKETT 345 KV  
 FILE: Fault-18.OUT



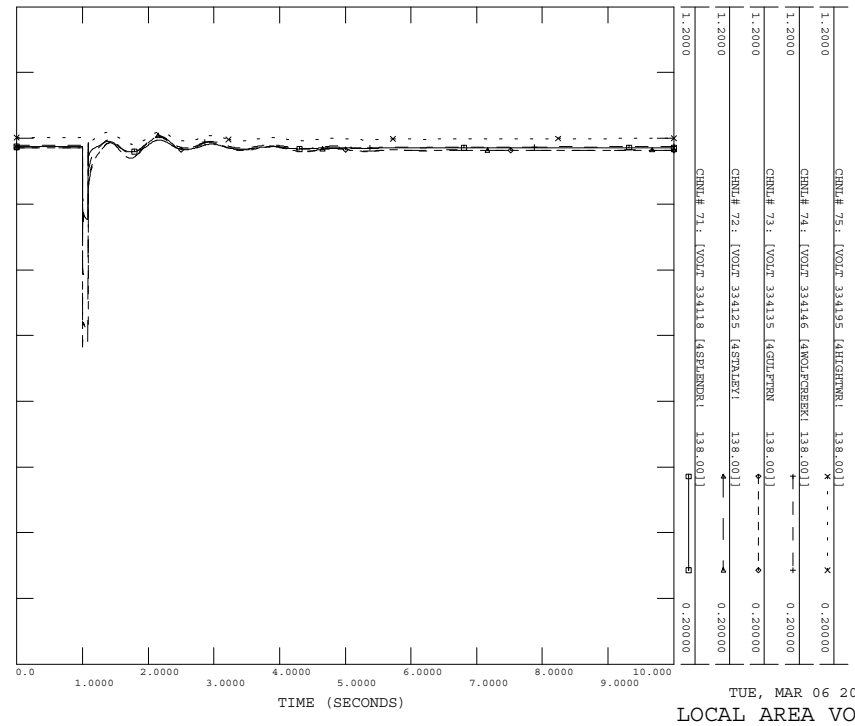
6CY 3PH FAULT GRIMES - SWEPKO CROCKETT 345 KV  
 TRIP GRIMES - SWEPKO CROCKETT 345 KV  
 FILE: Fault-18.OUT



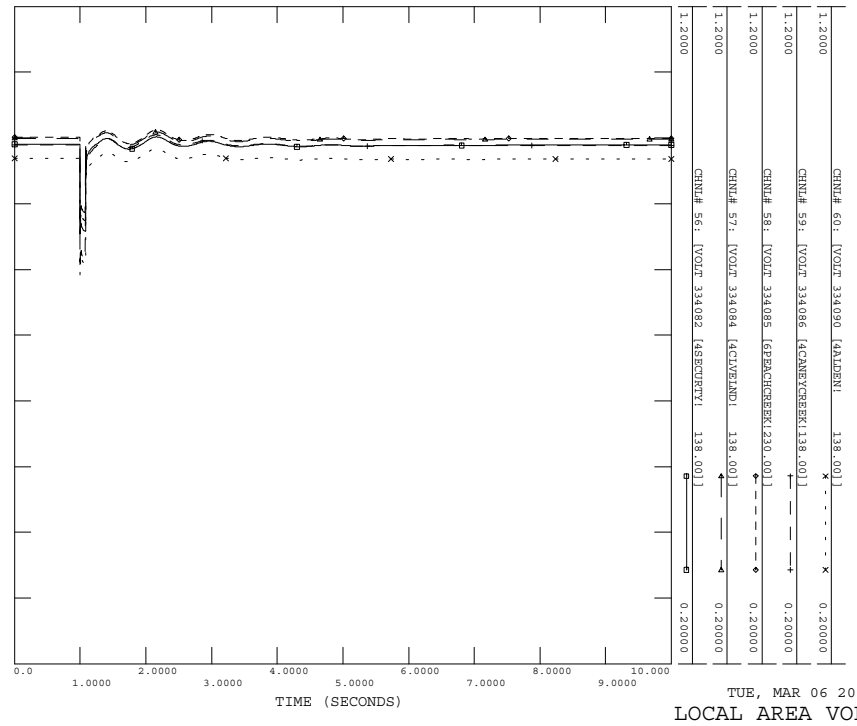
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



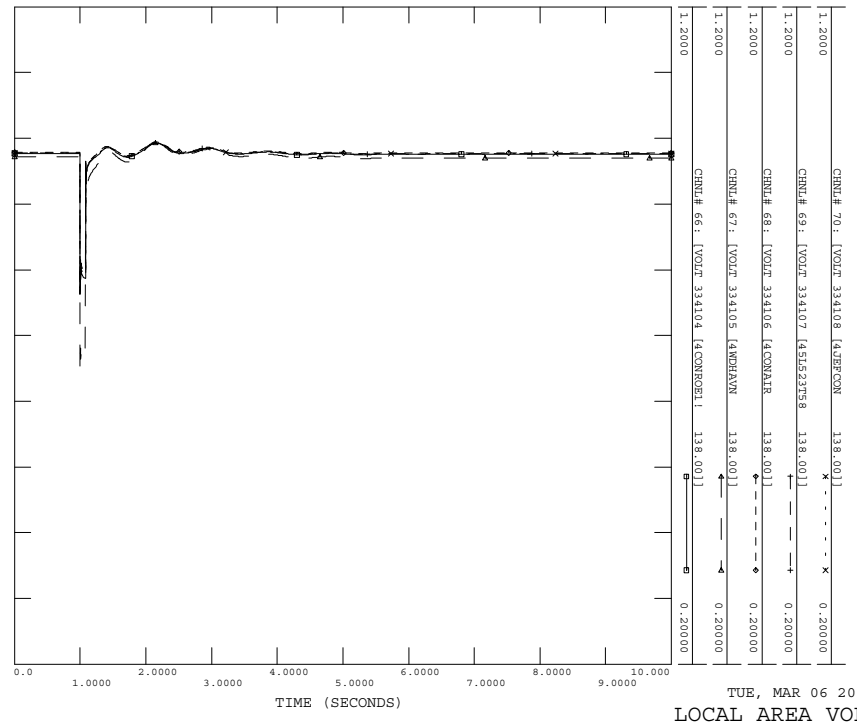
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



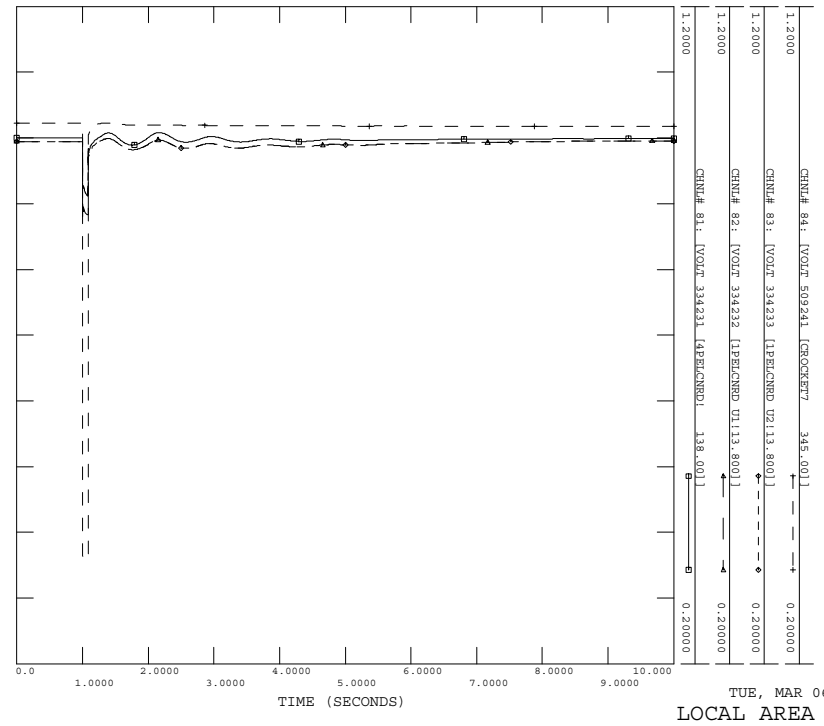
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



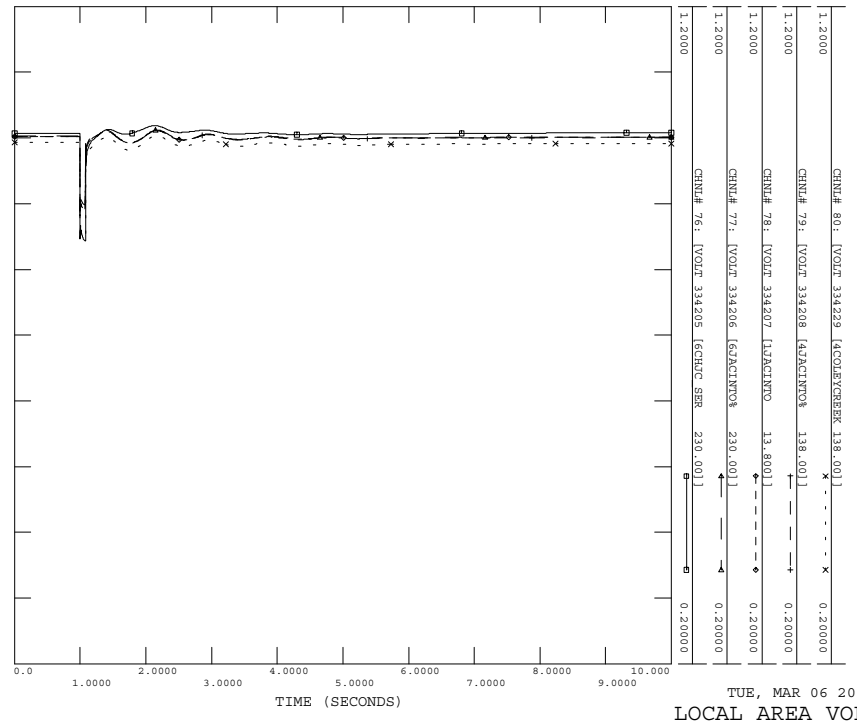
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



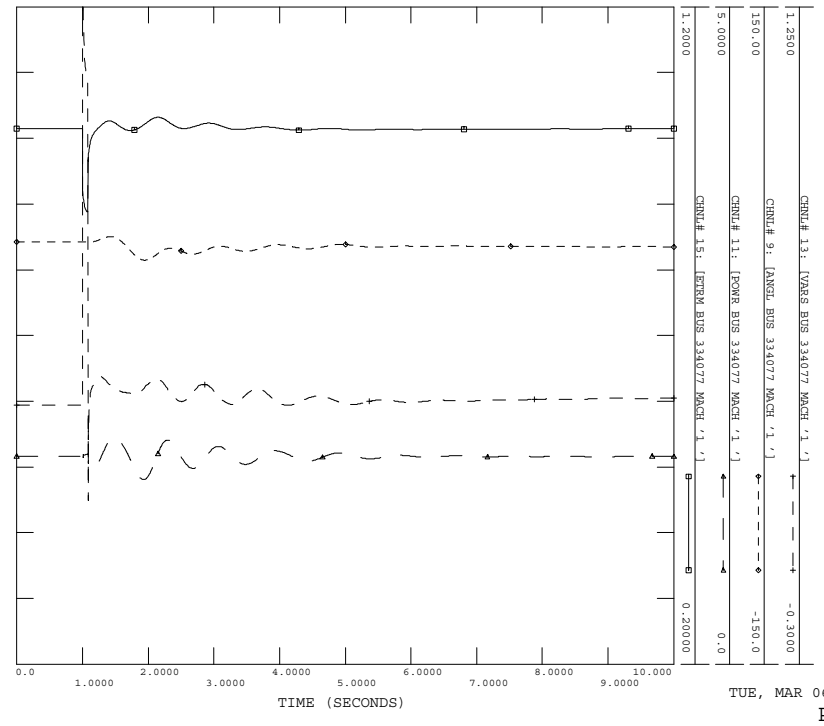
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



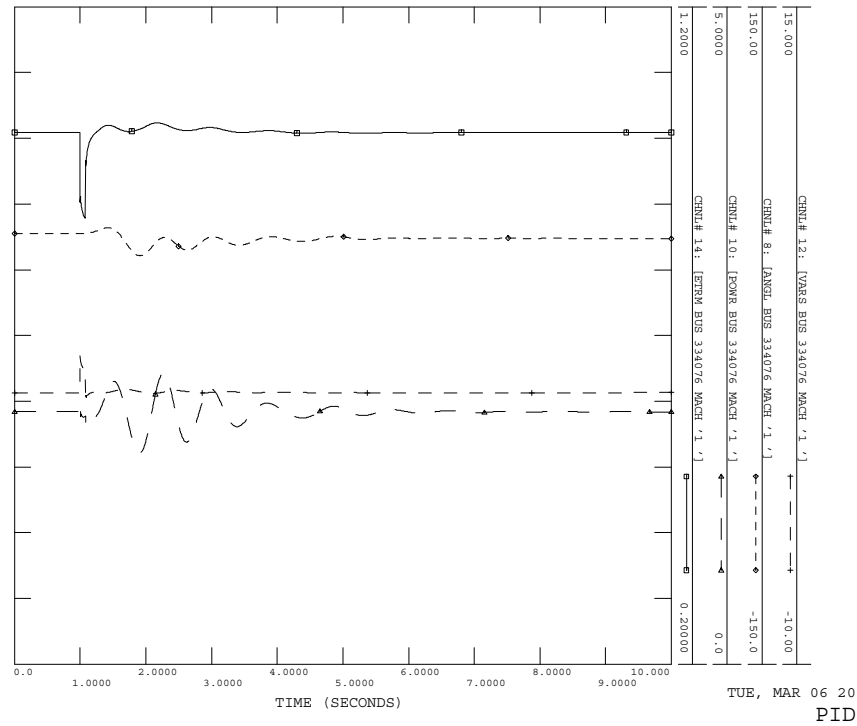
6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



6CY 3PH FAULT GRIMES - SWEPSCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPSCO CROCKETT 345 KV  
 FILE: Fault-18.OUT



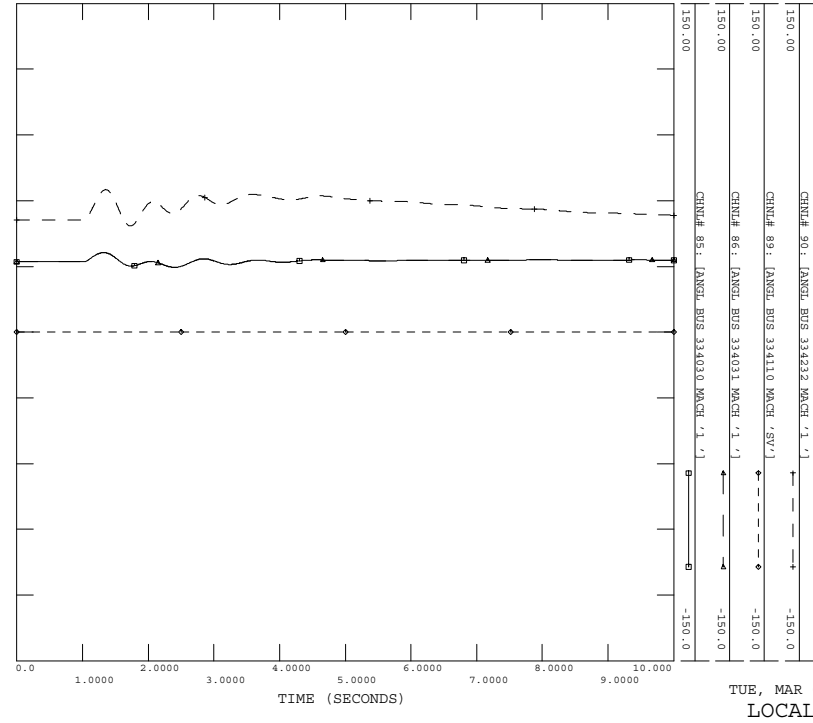


### **C.1.19      FAULT-19**

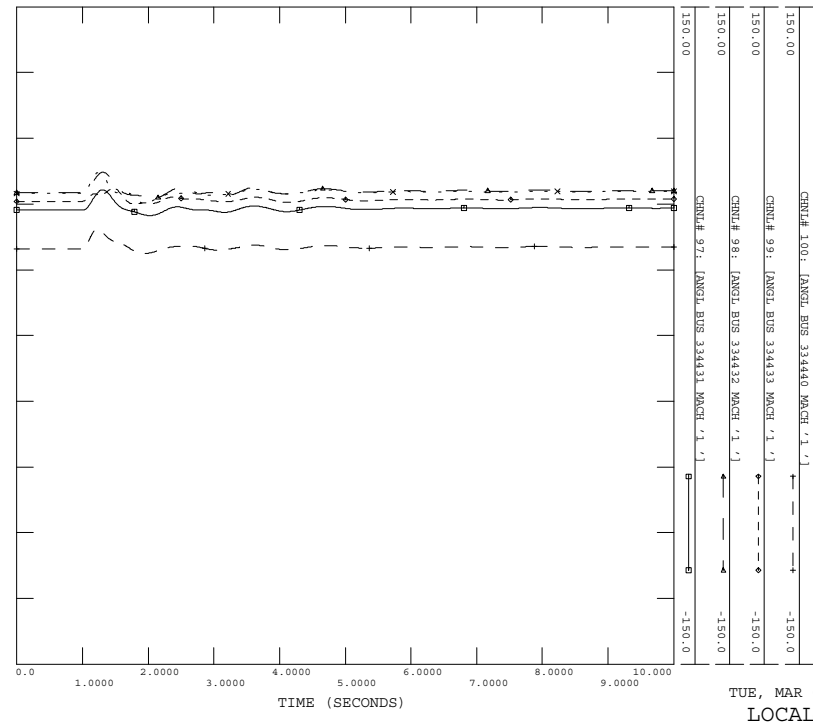
3 phase fault on the Porter– Splendor 138 kV

- a) Apply fault at Porter 138kV bus
- b) Clear fault after 6 cycles by tripping the Porter– Splendor 138 kV

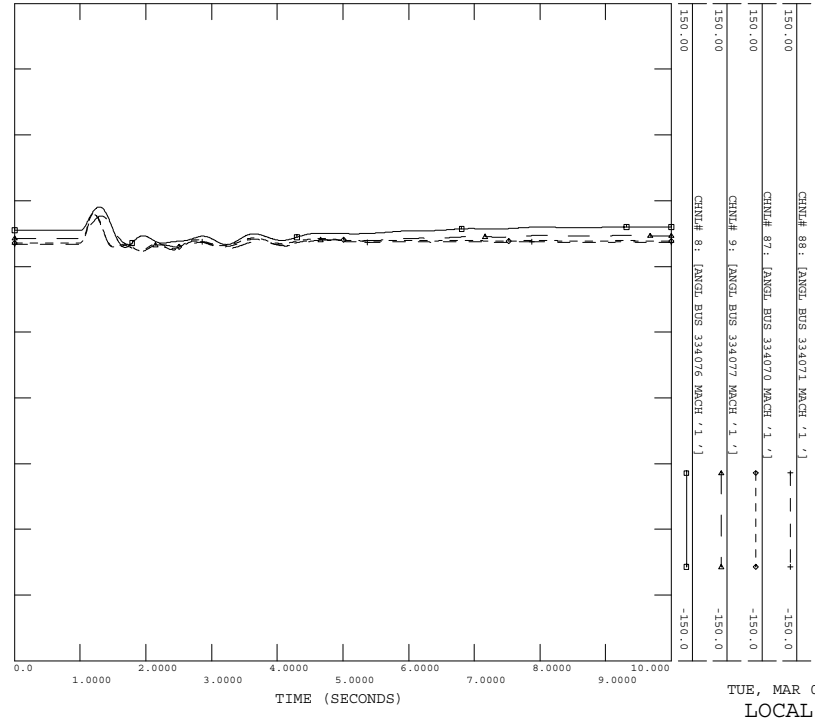
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19.OUT



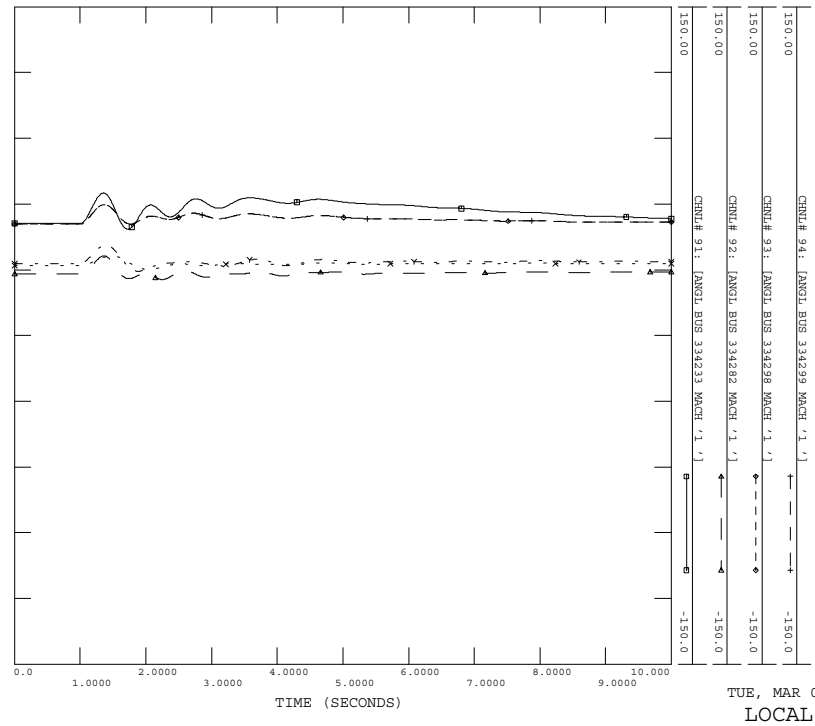
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19.OUT



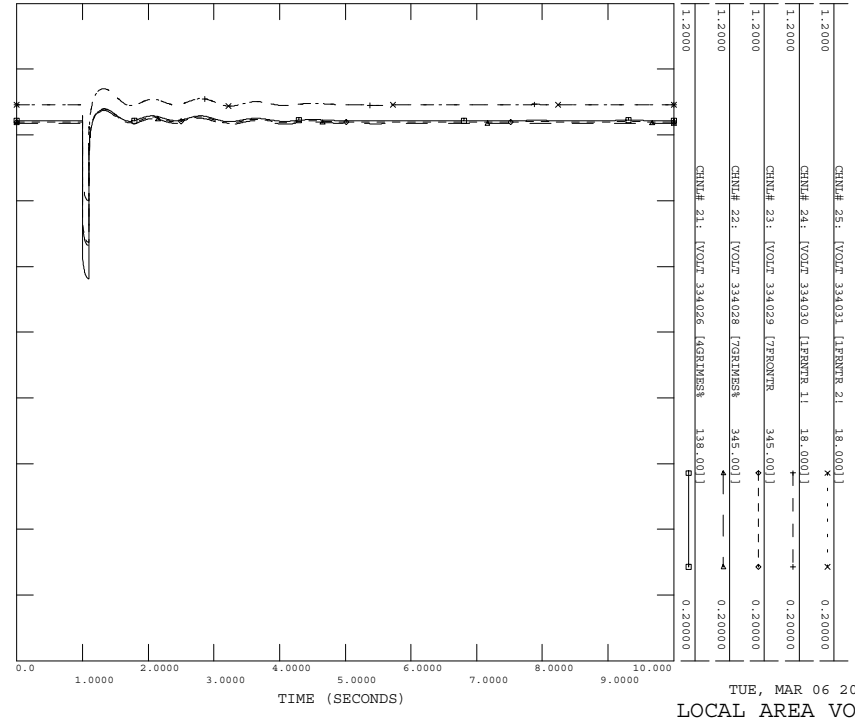
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19.OUT



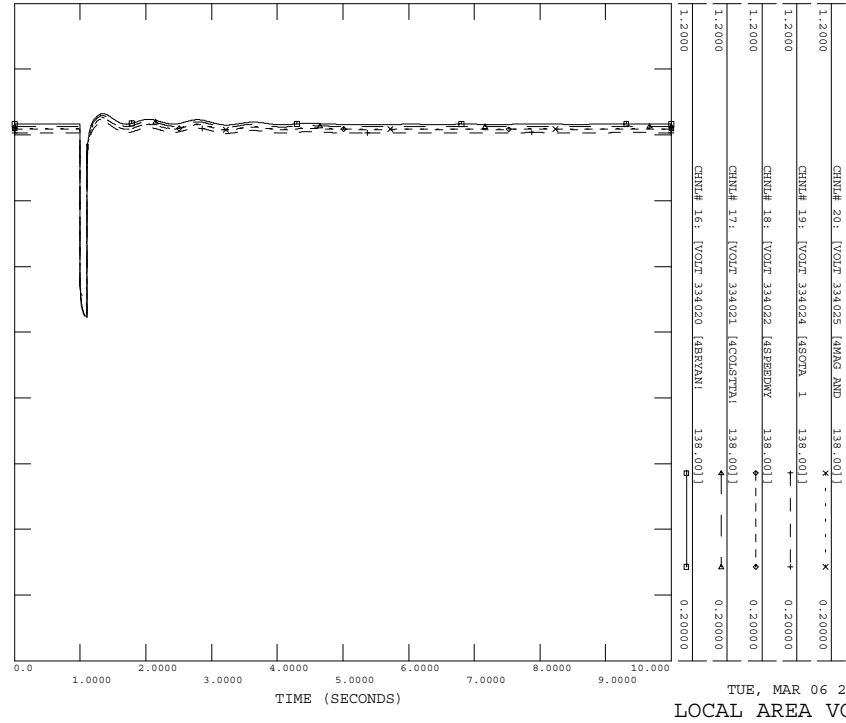
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19.OUT



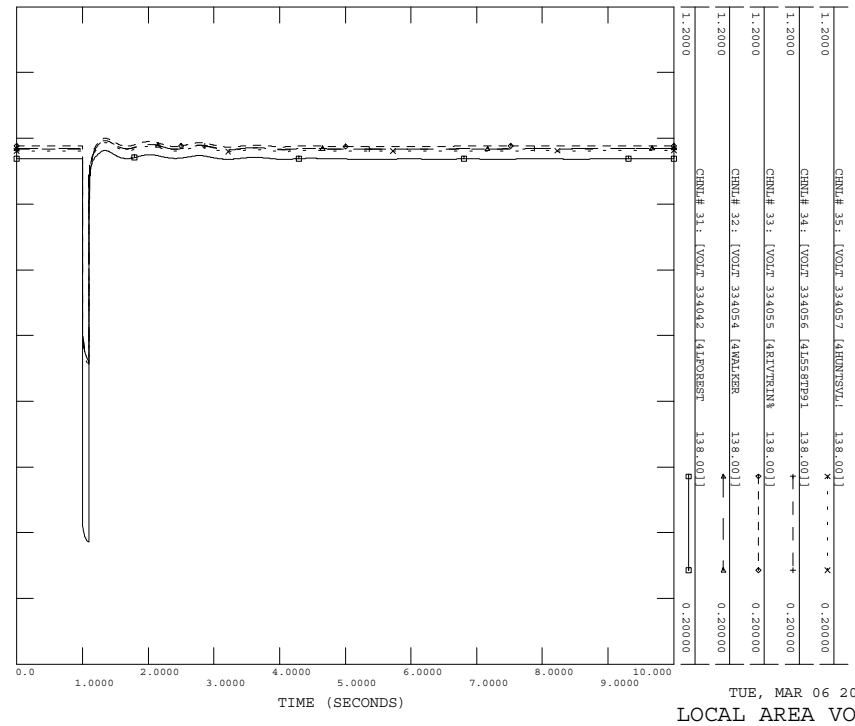
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



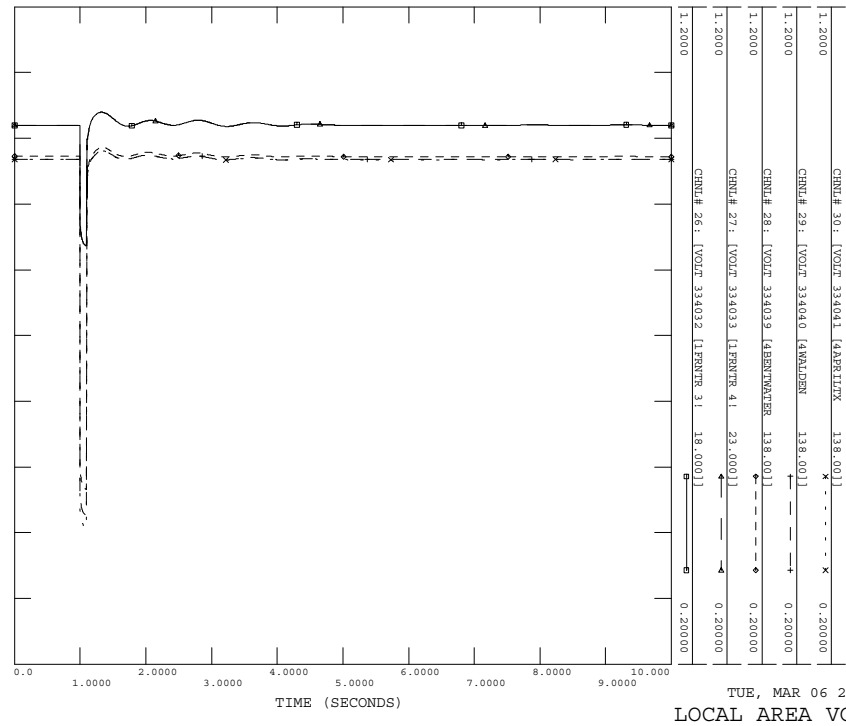
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



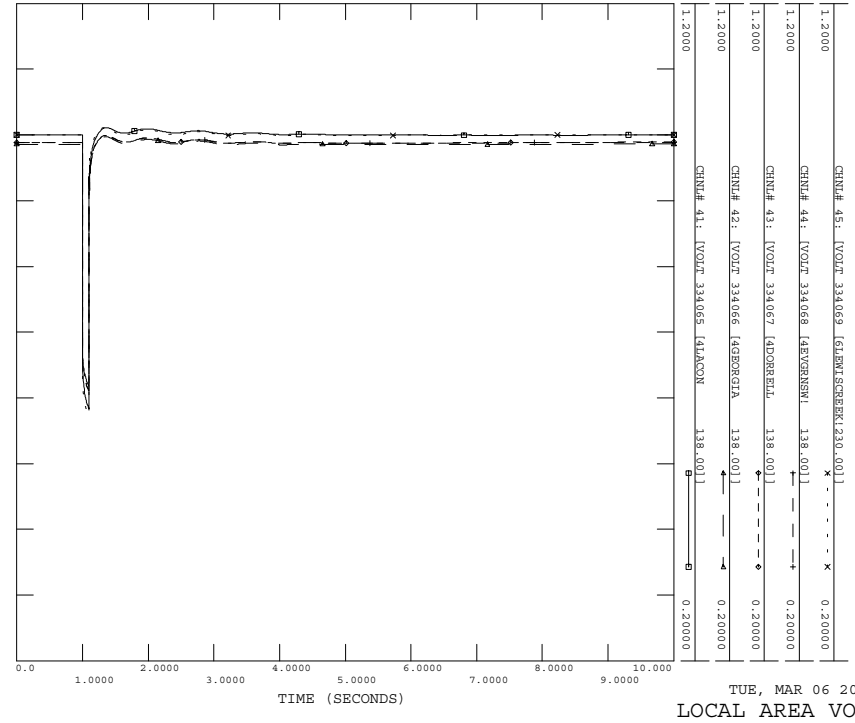
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



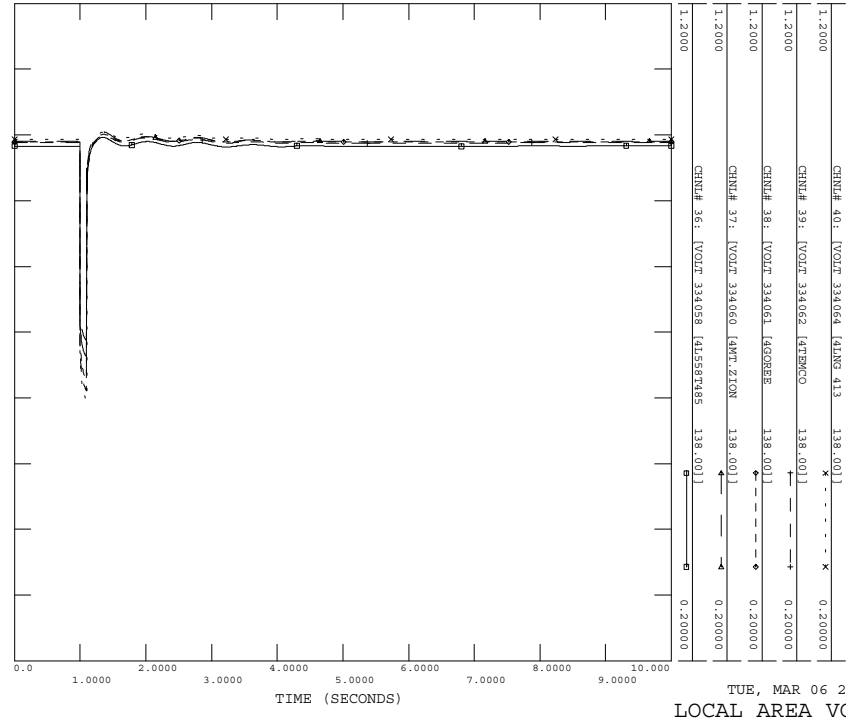
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



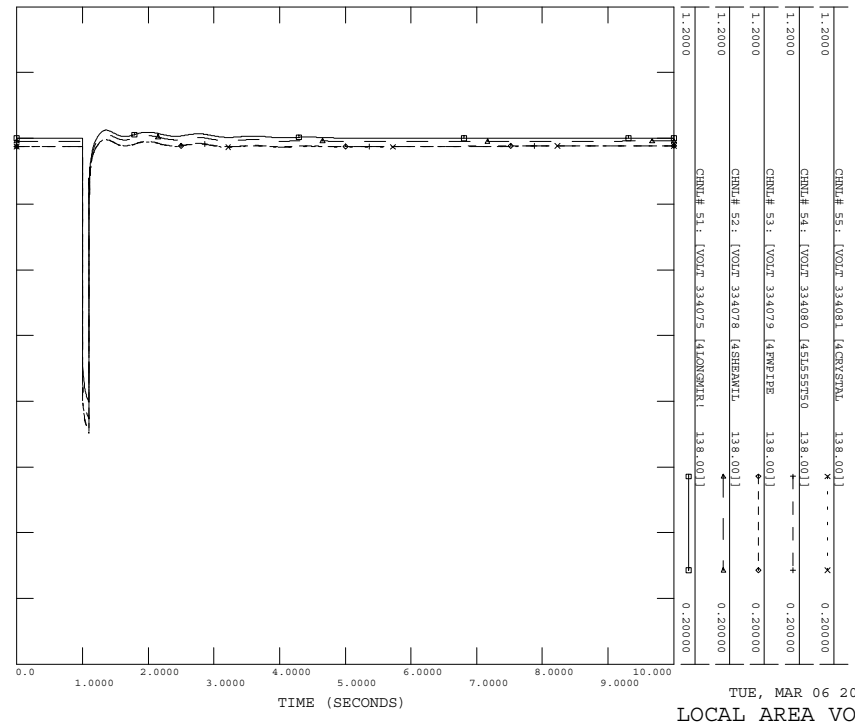
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



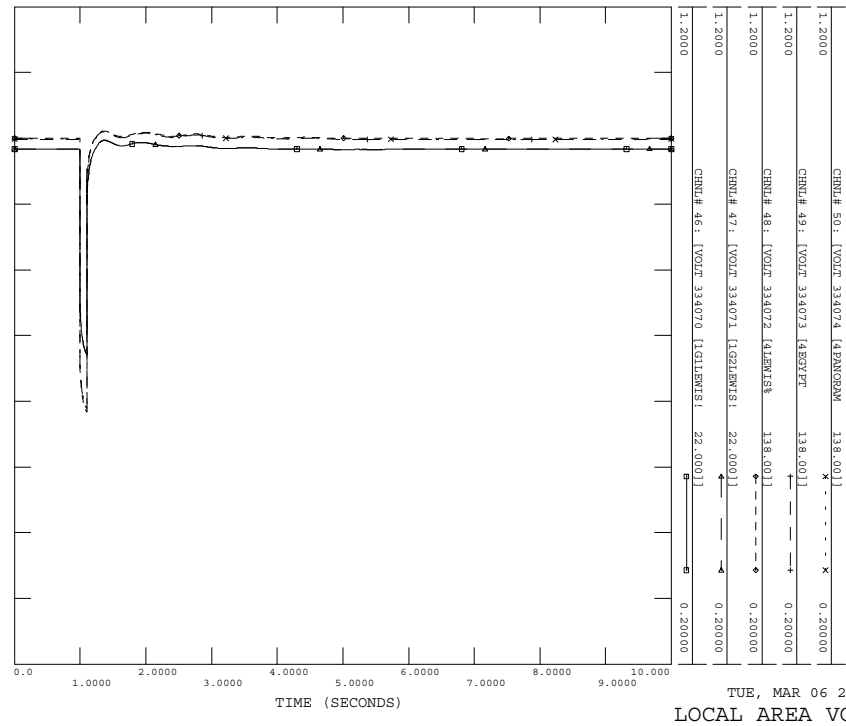
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



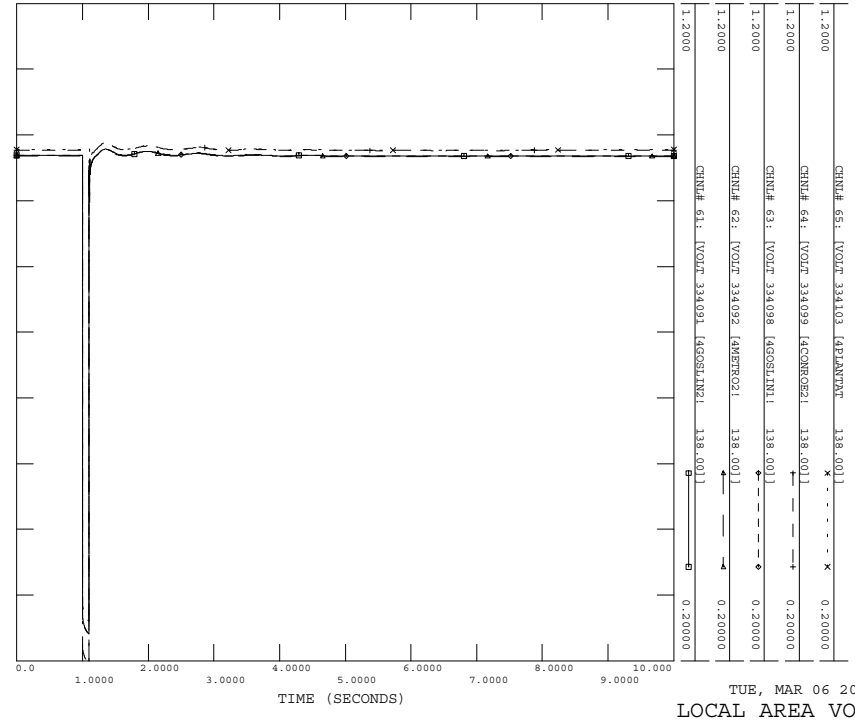
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



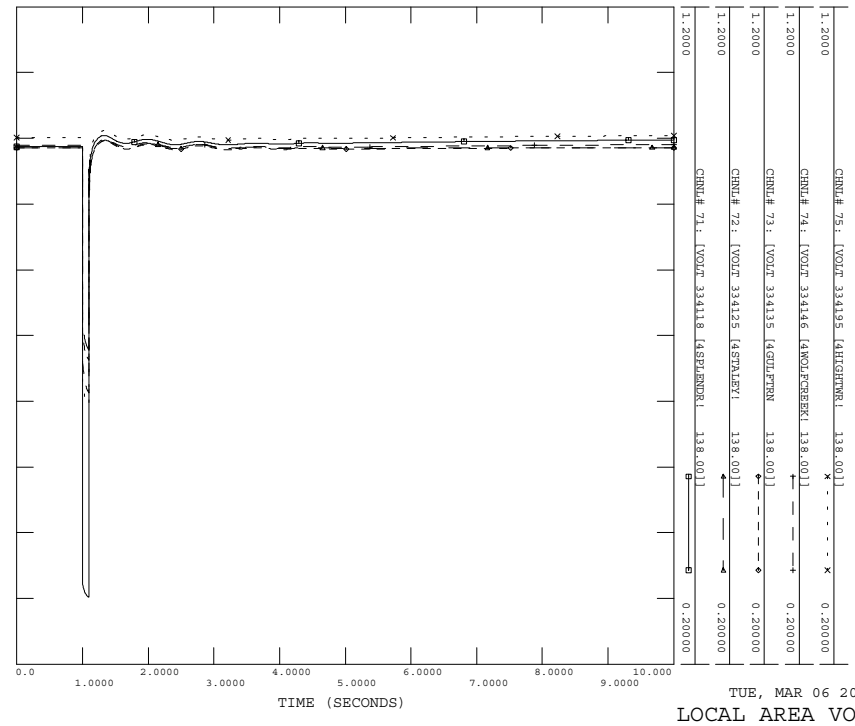
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



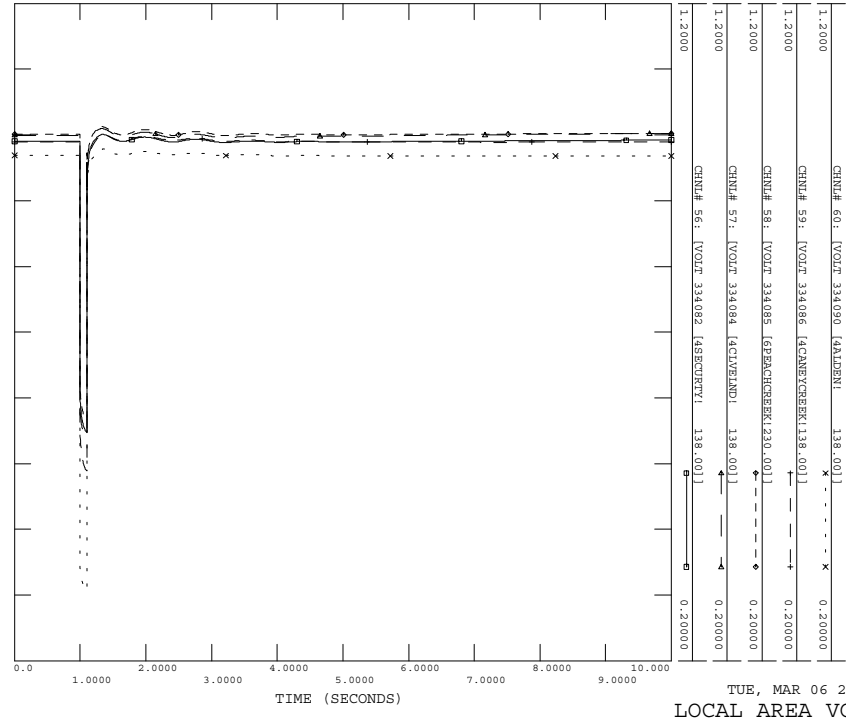
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



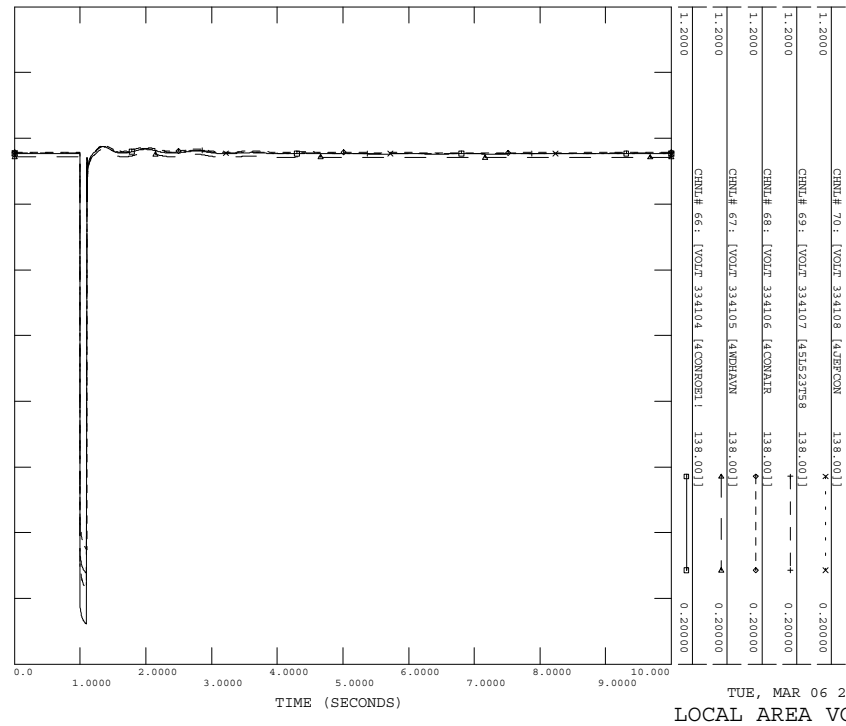
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



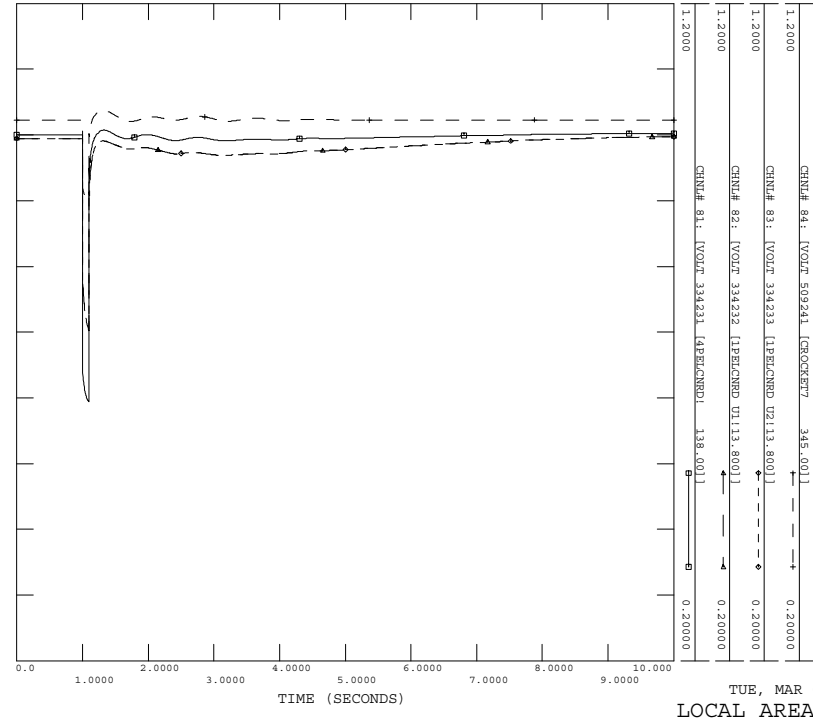
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



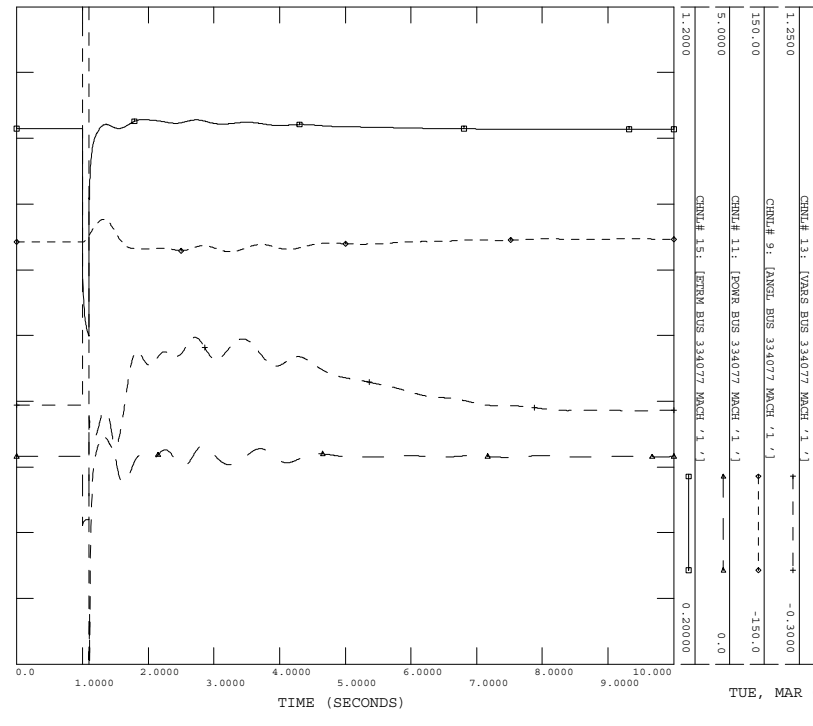
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19\_OUT



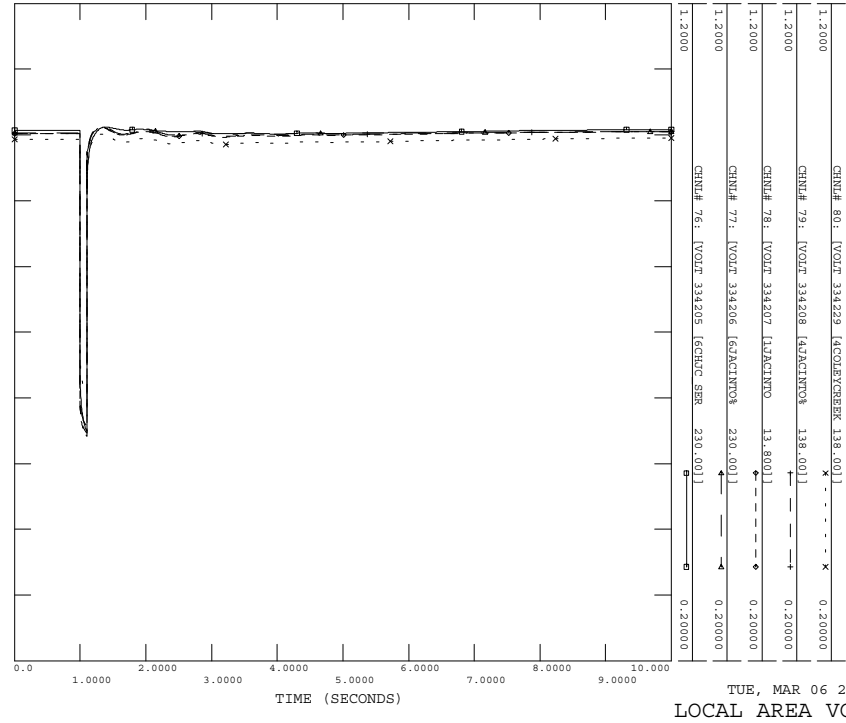
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19.OUT



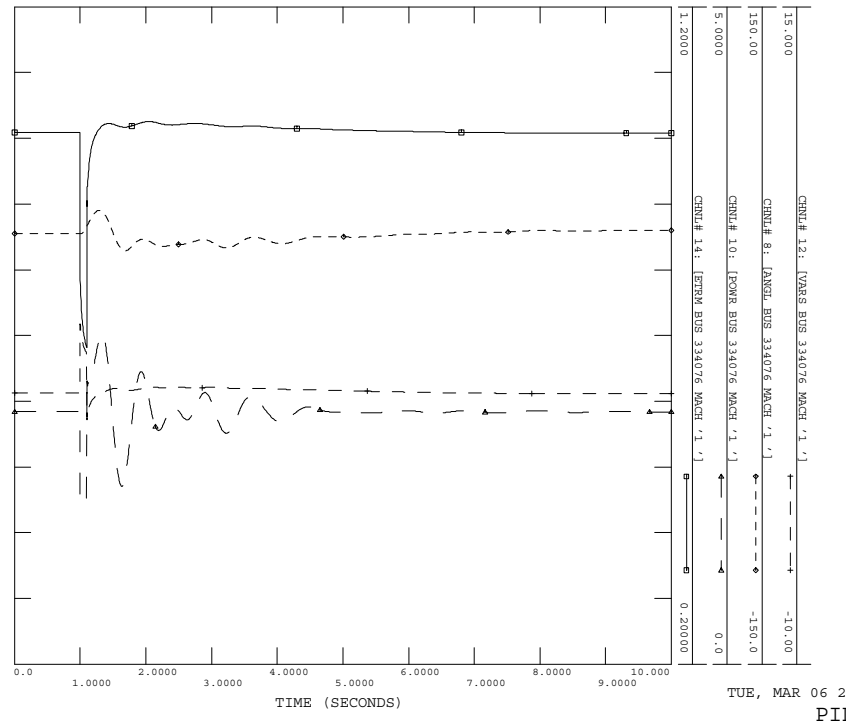
6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19.OUT



6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19.OUT



6CY 3PH FAULT PORTER- SPLENDORA 138 KV  
 TRIP PORTER- SPLENDORA 138 KV  
 FILE: Fault-19.OUT

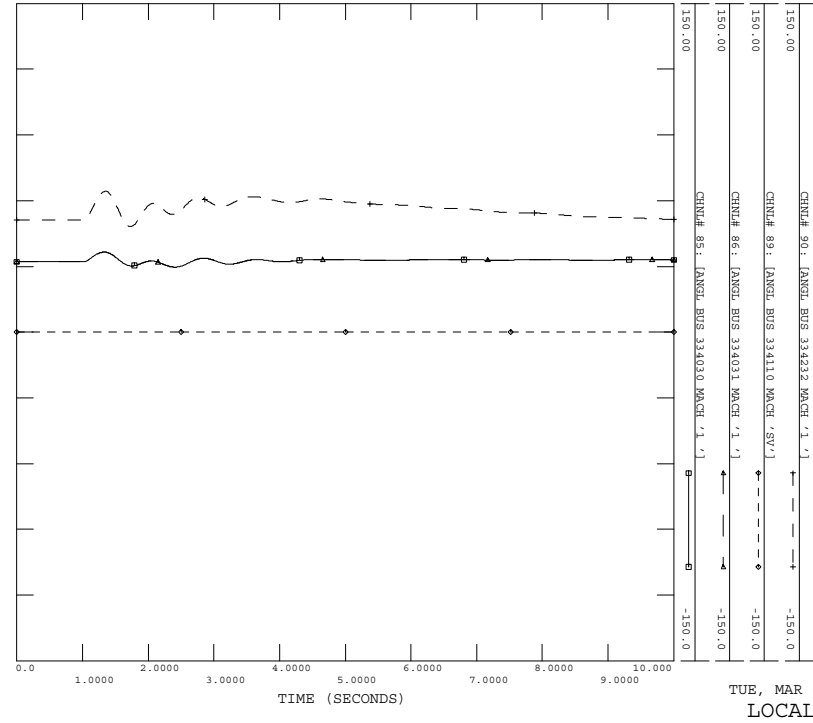


**C.1.20      FAULT-20**

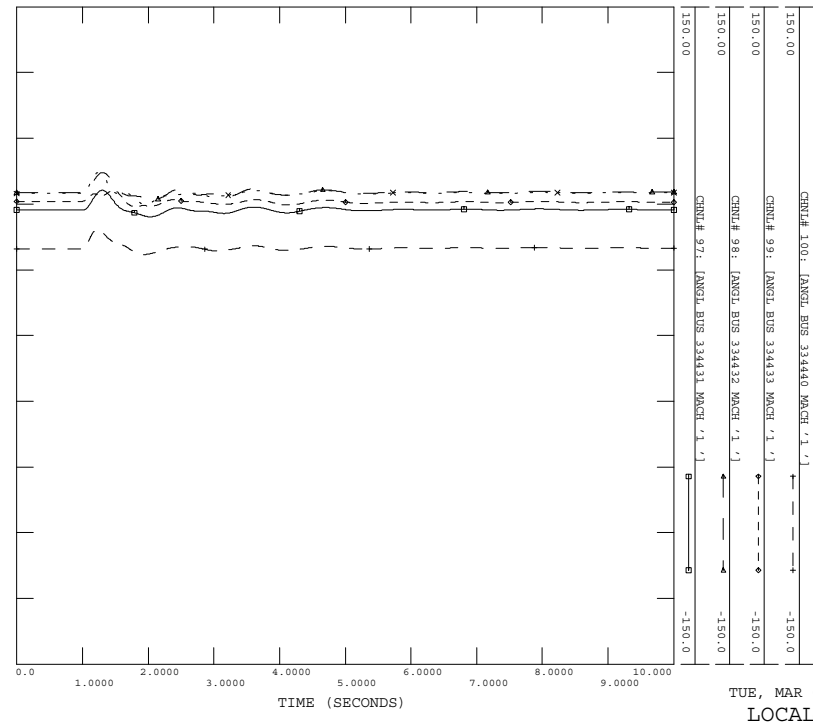
3 phase fault on the Porter– New Caney 138 kV

- a) Apply fault at Porter 138kV bus
- b) Clear fault after 6 cycles by tripping the Porter– New Caney 138 kV

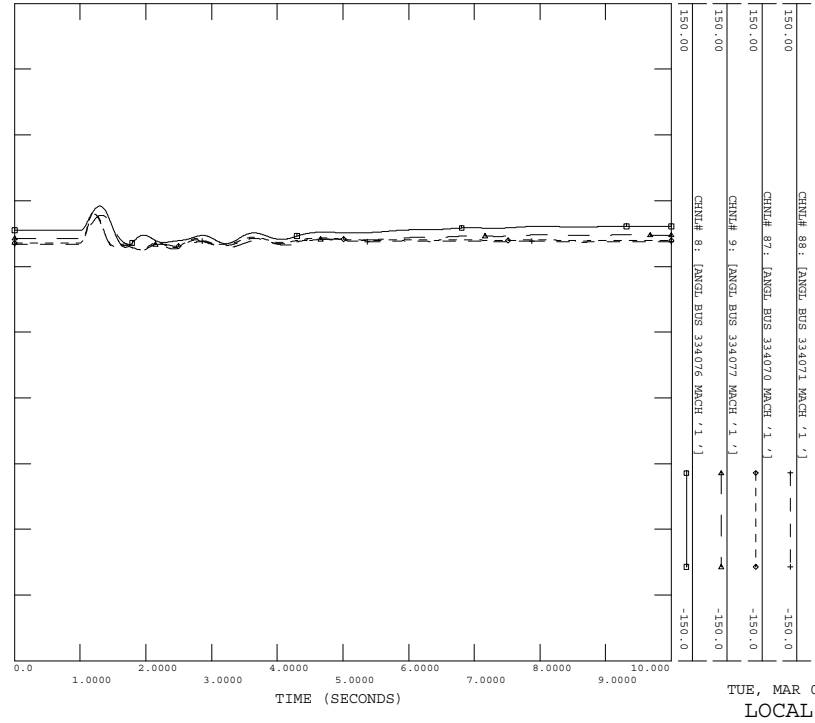
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
TRIP PORTER- NEW CANEY 138 KV  
FILE: Fault-20.OUT



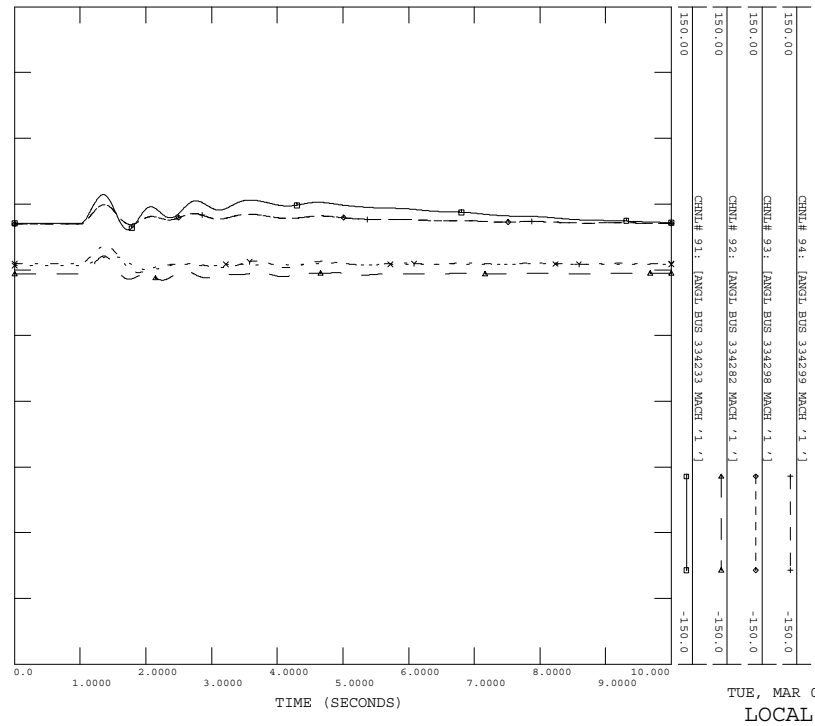
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
TRIP PORTER- NEW CANEY 138 KV  
FILE: Fault-20.OUT



6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
TRIP PORTER- NEW CANEY 138 KV  
FILE: Fault-20.OUT

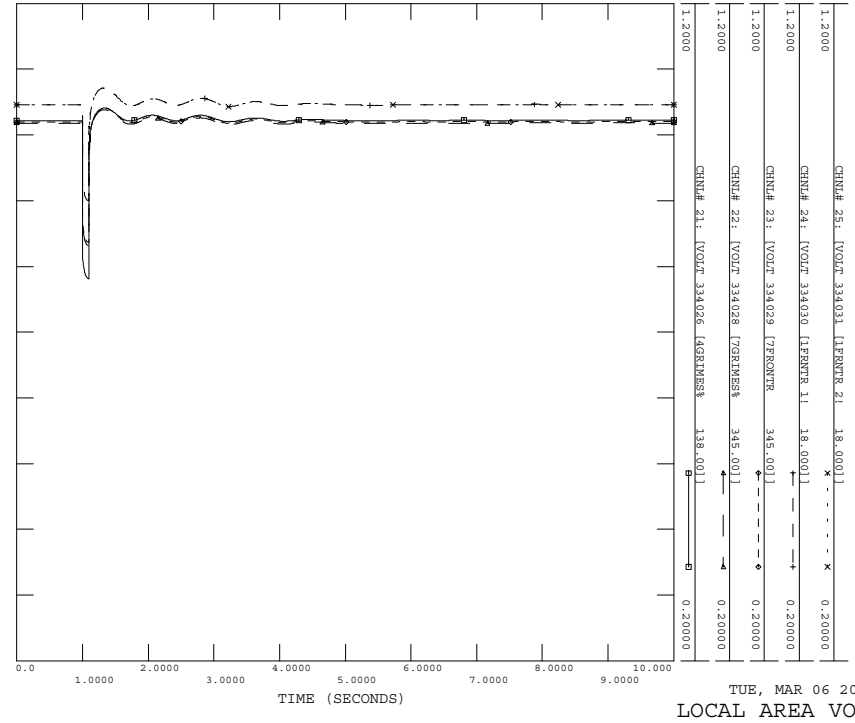


6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
TRIP PORTER- NEW CANEY 138 KV  
FILE: Fault-20.OUT

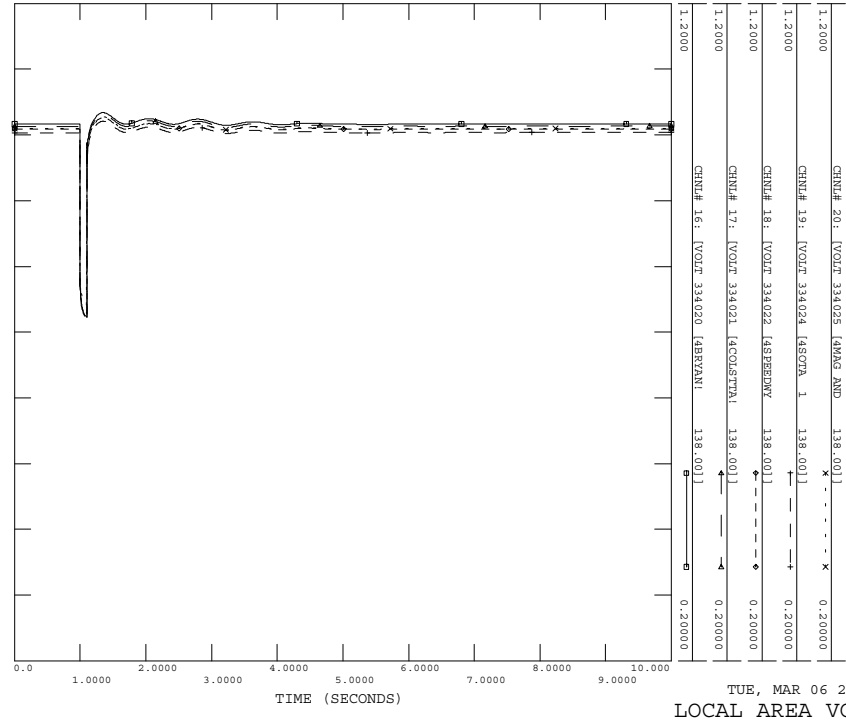




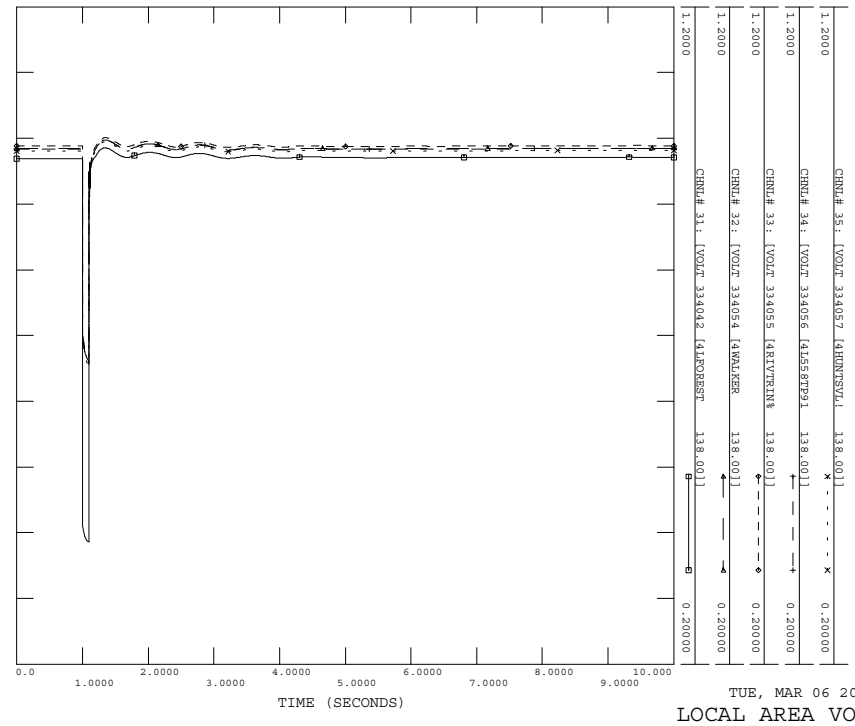
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



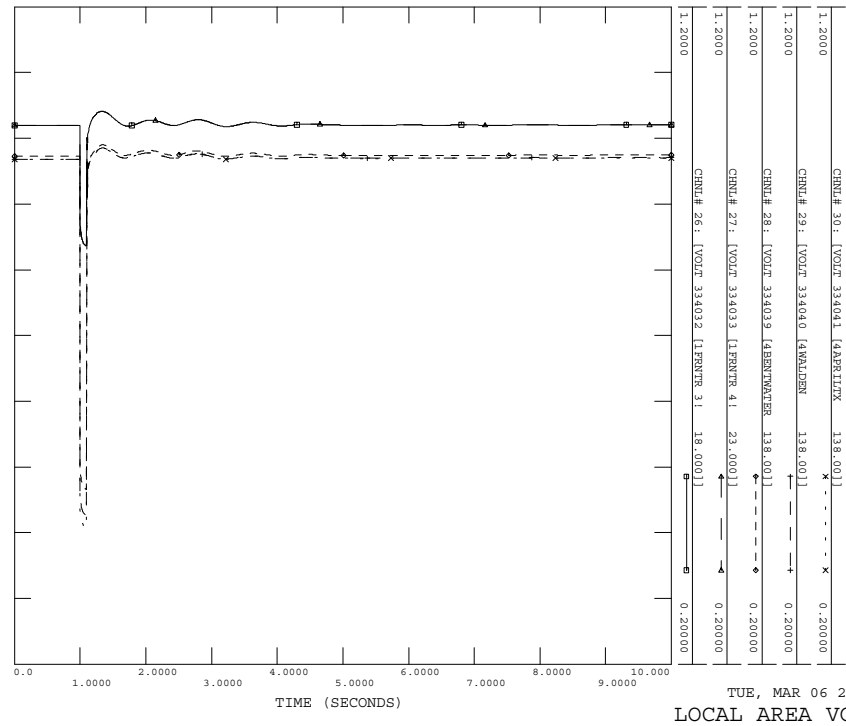
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



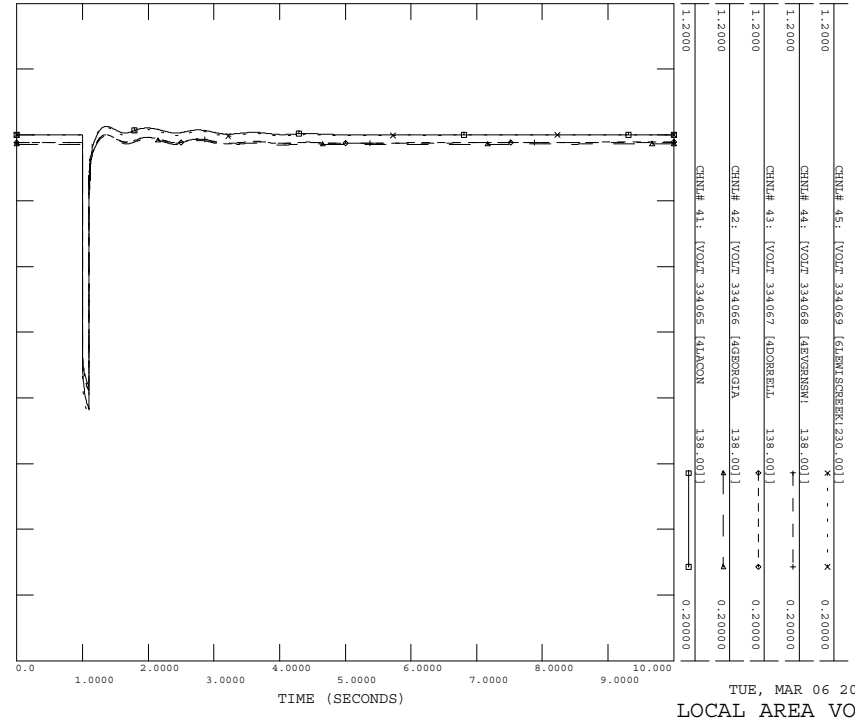
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



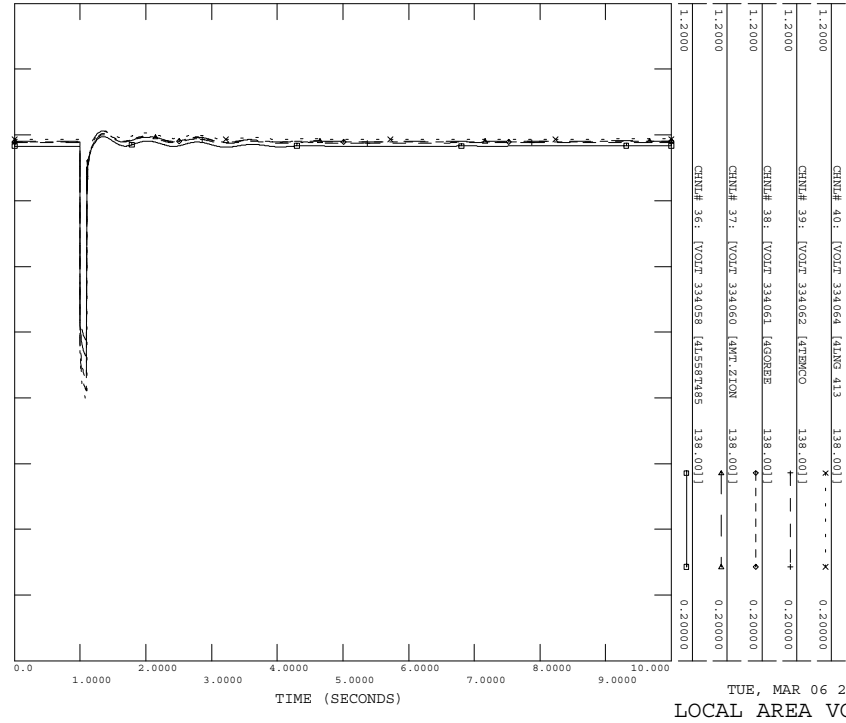
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



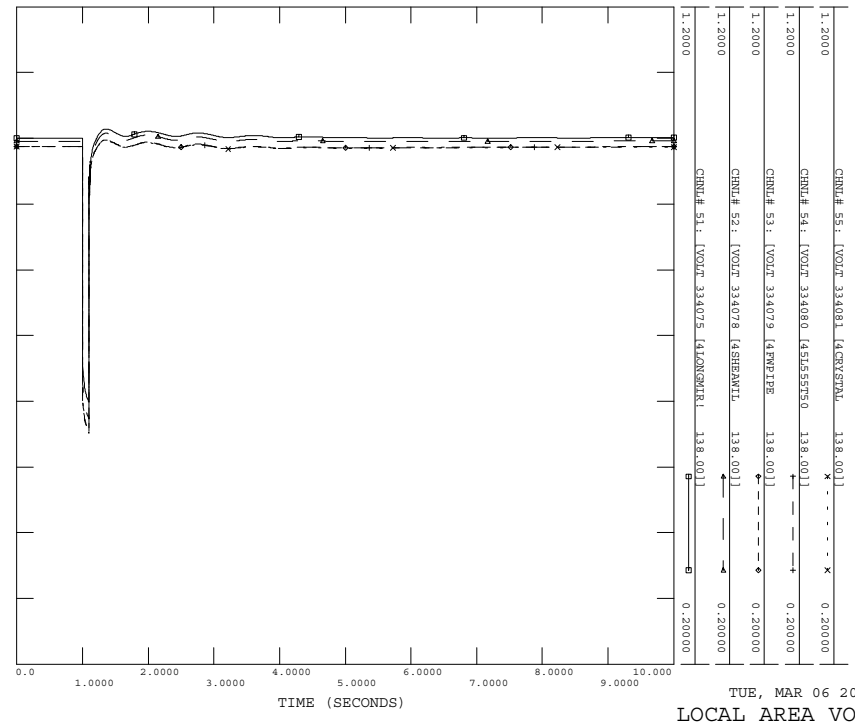
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



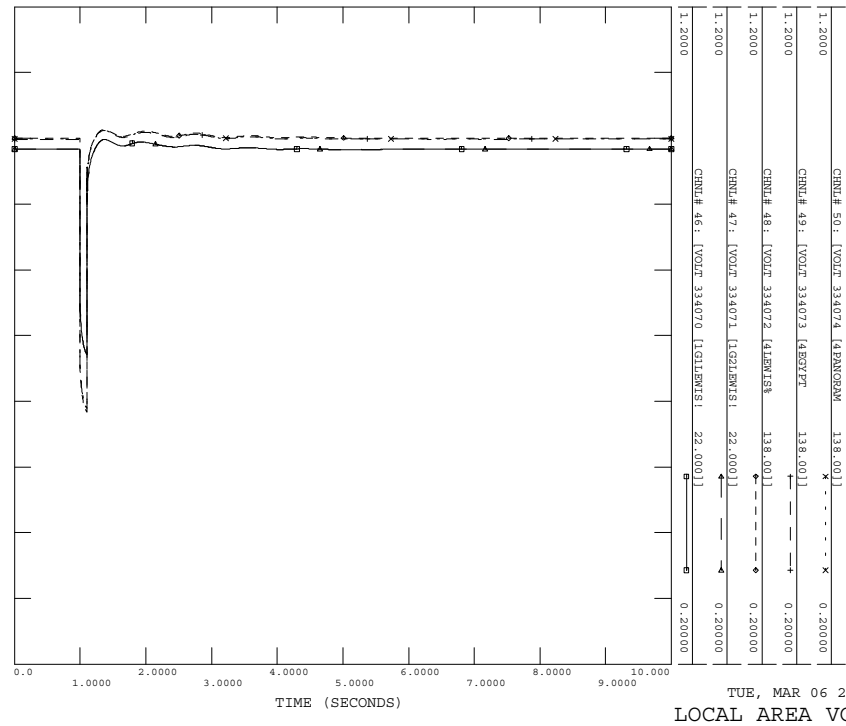
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



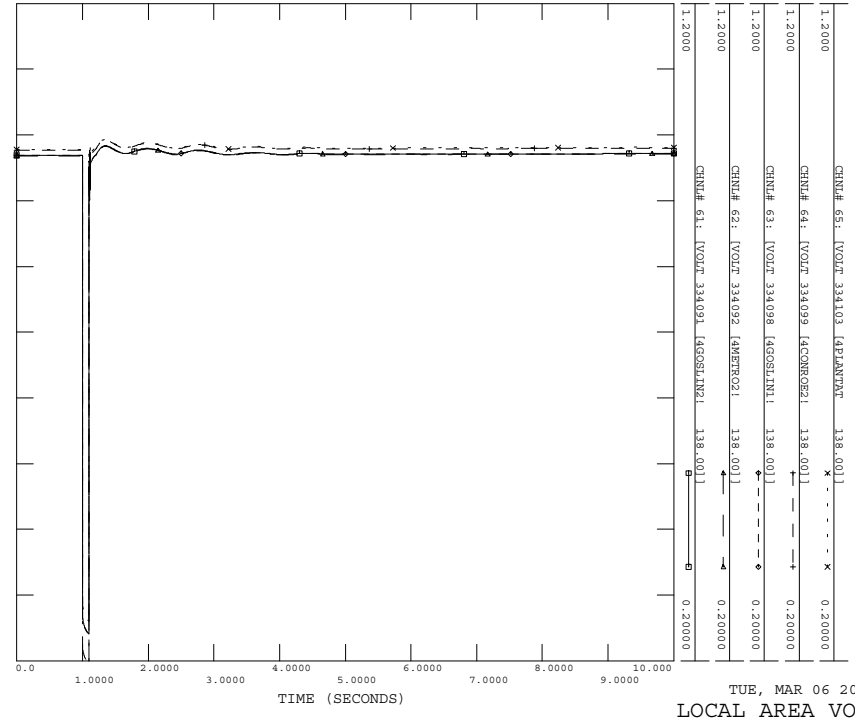
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



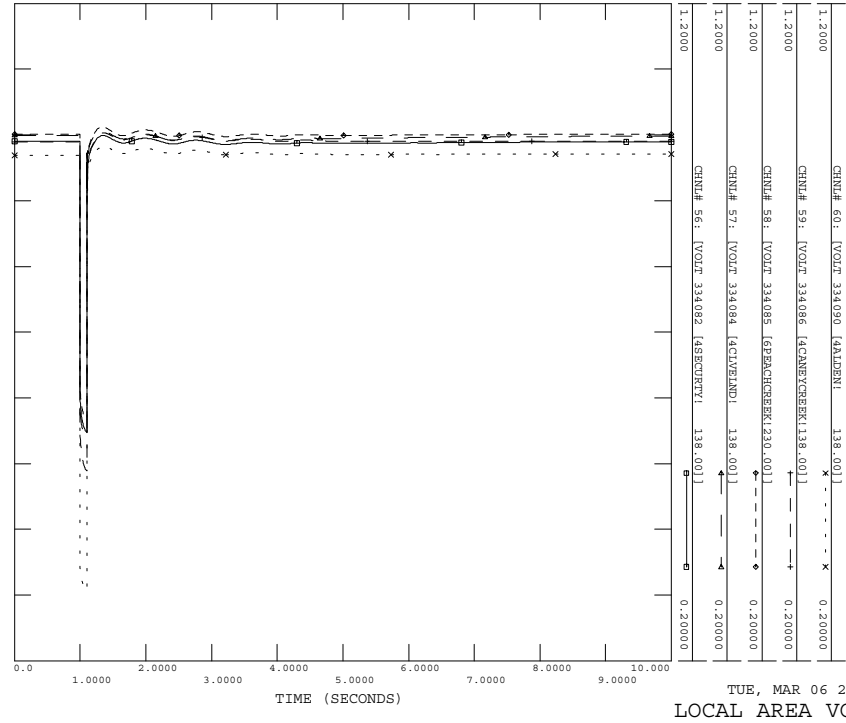
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



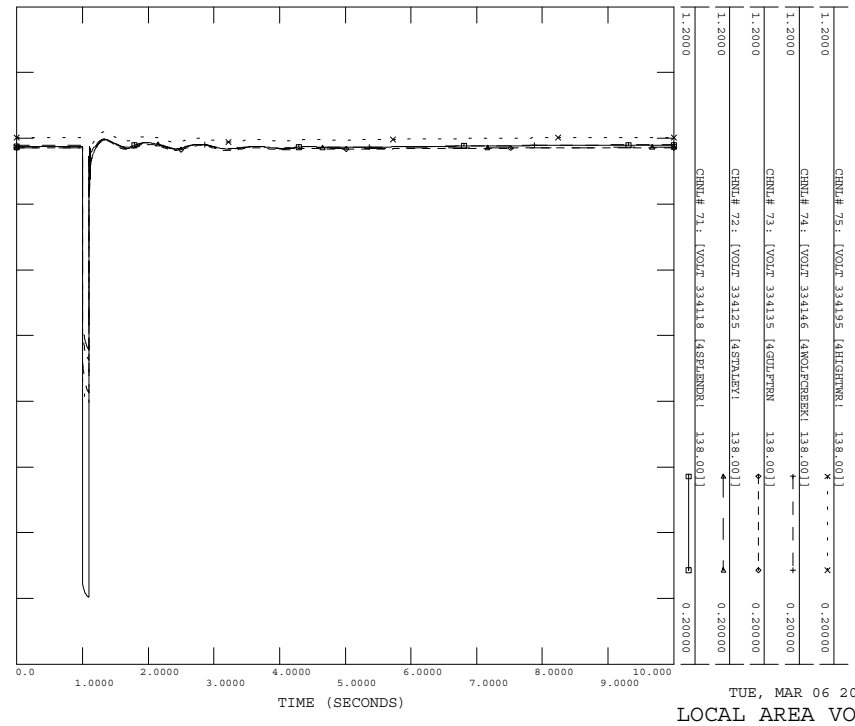
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



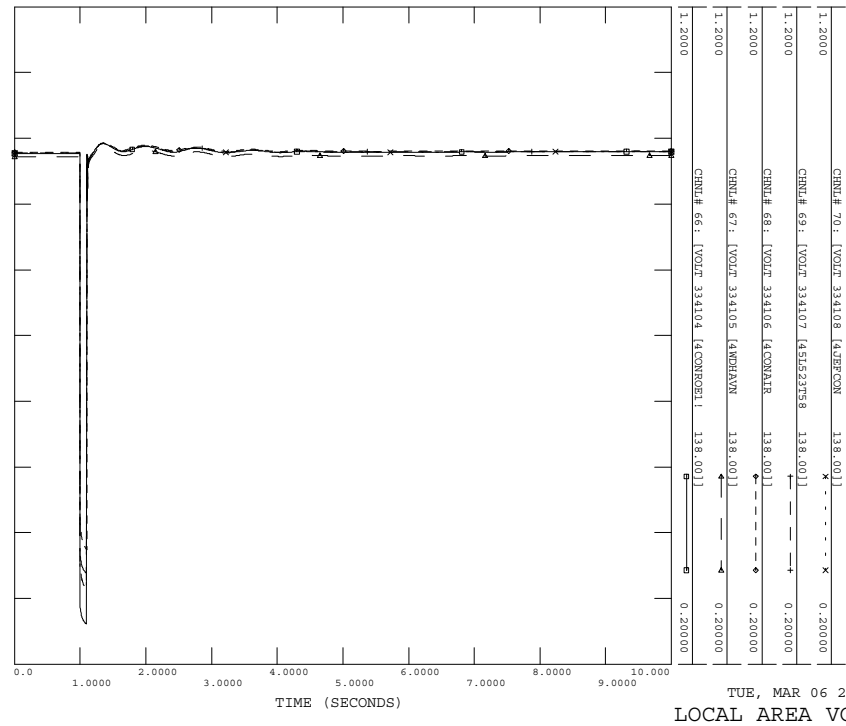
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



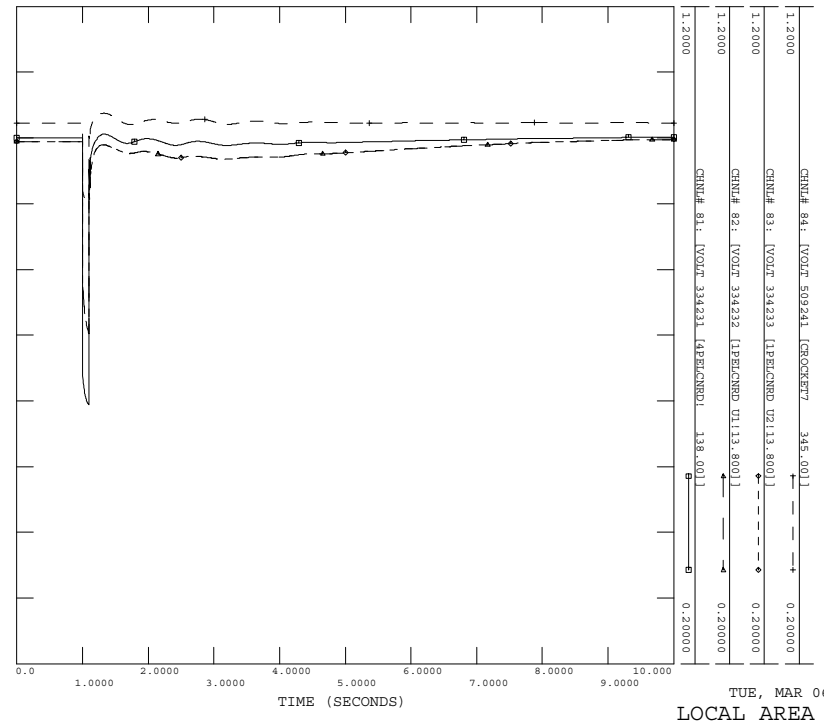
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



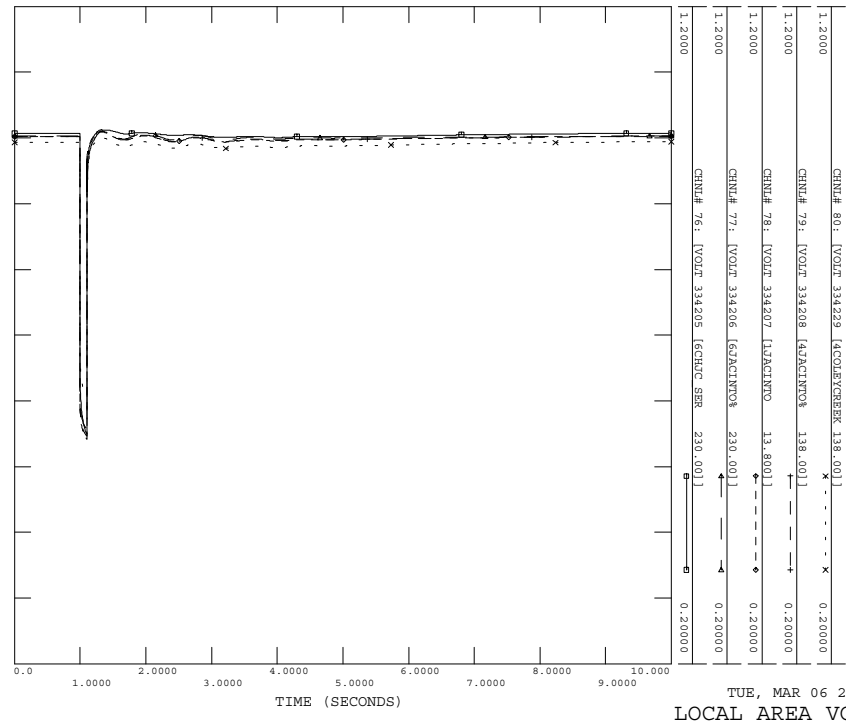
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



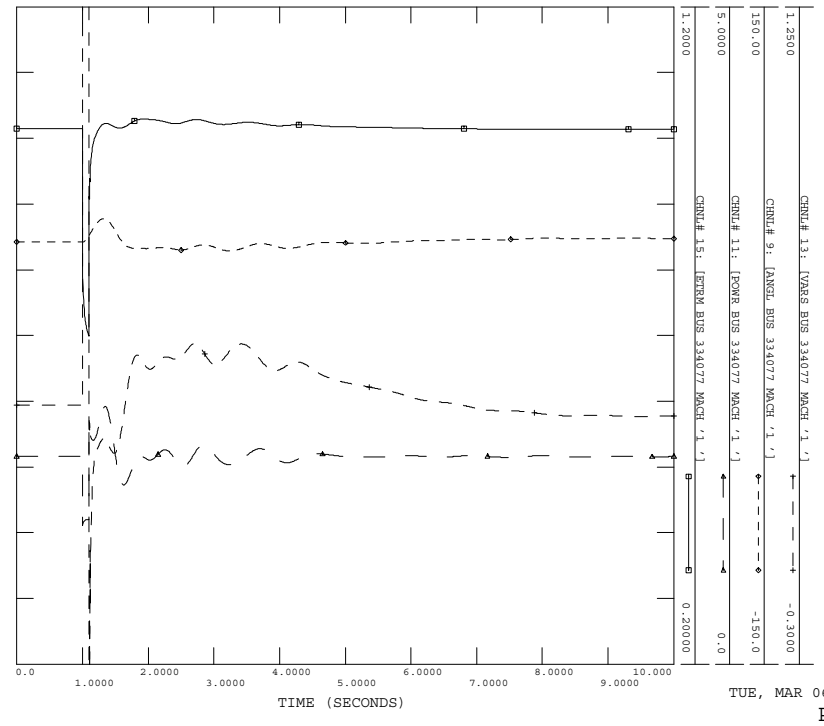
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



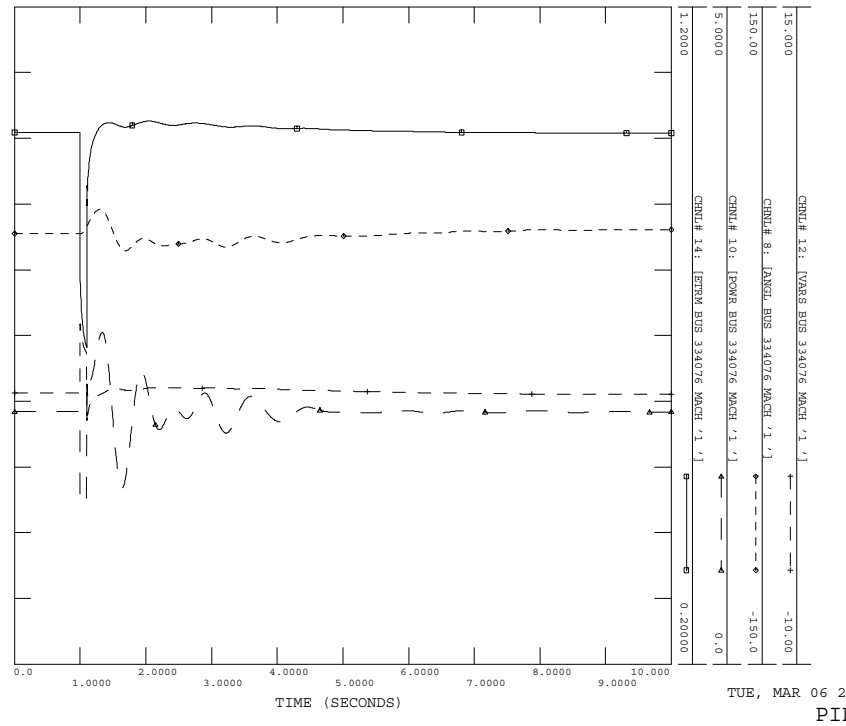
6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT



6CY 3PH FAULT PORTER- NEW CANEY 138 KV  
 TRIP PORTER- NEW CANEY 138 KV  
 FILE: Fault-20.OUT

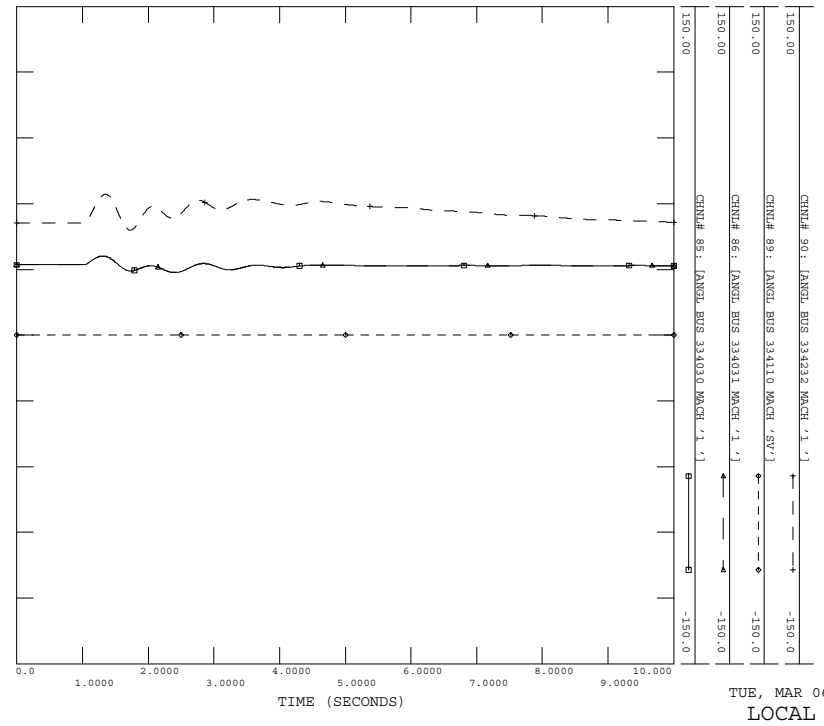


### **C.1.21      FAULT-21**

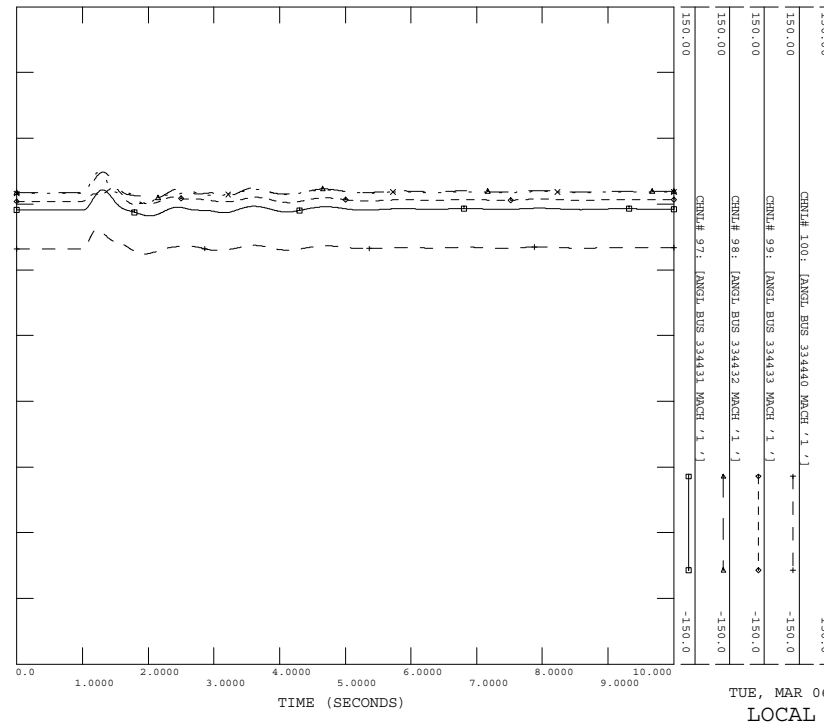
3 phase fault on the Porter– Tamina 138 kV

- a) Apply fault at Porter 138kV bus
- b) Clear fault after 6 cycles by tripping the Porter– Tamina 138 kV

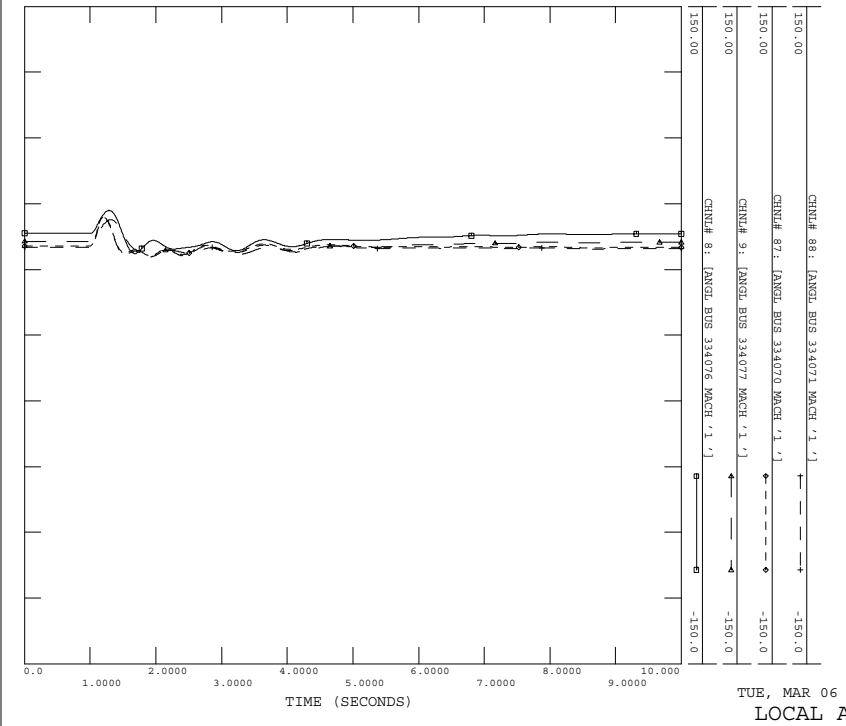
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



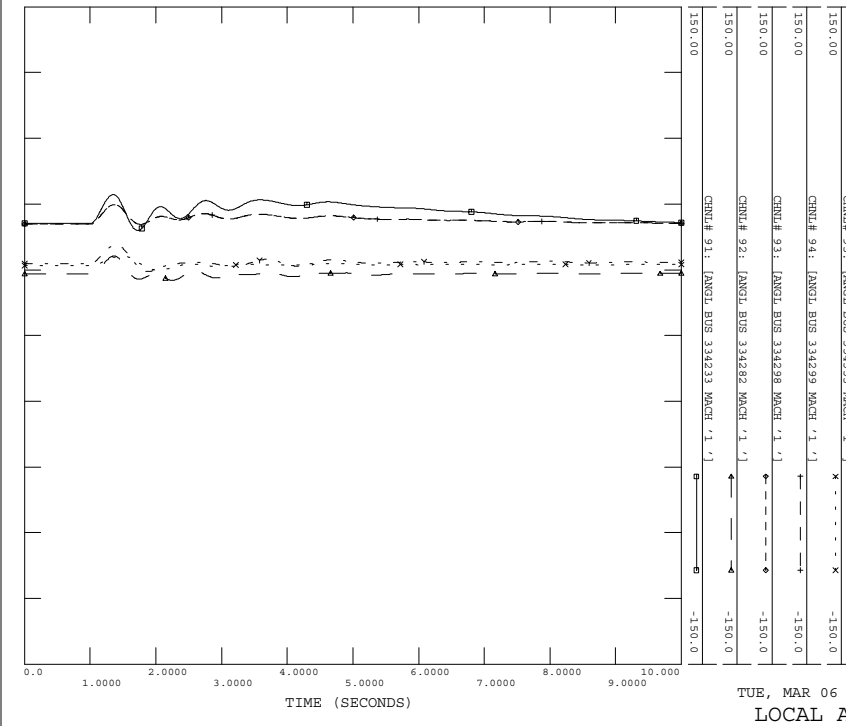
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



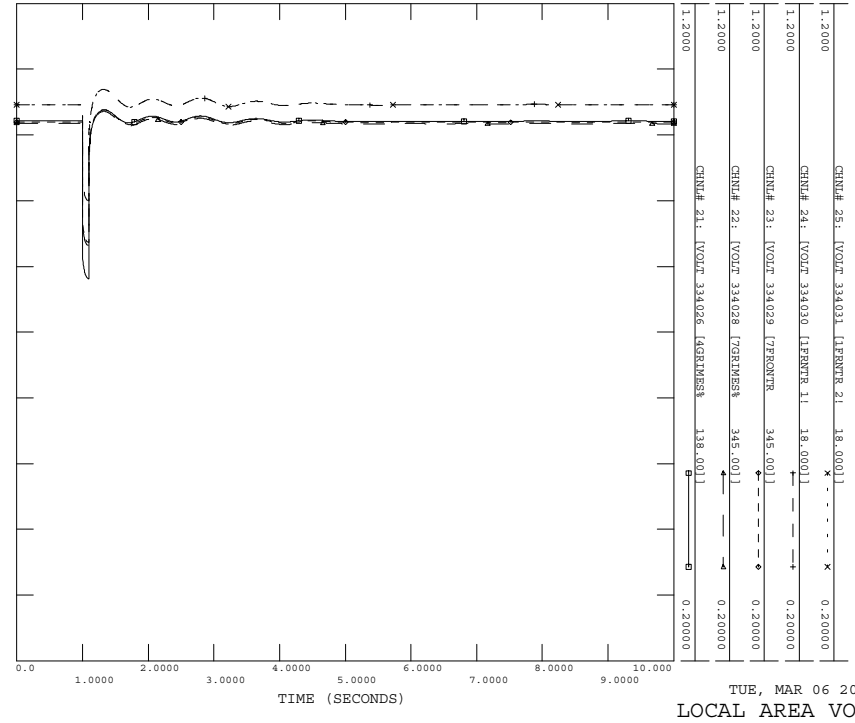
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



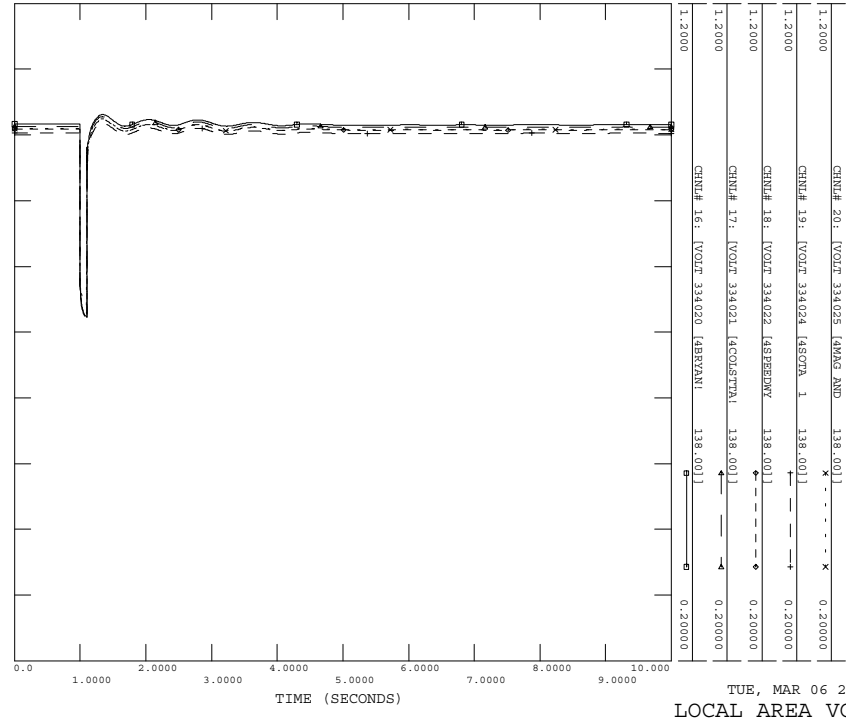
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



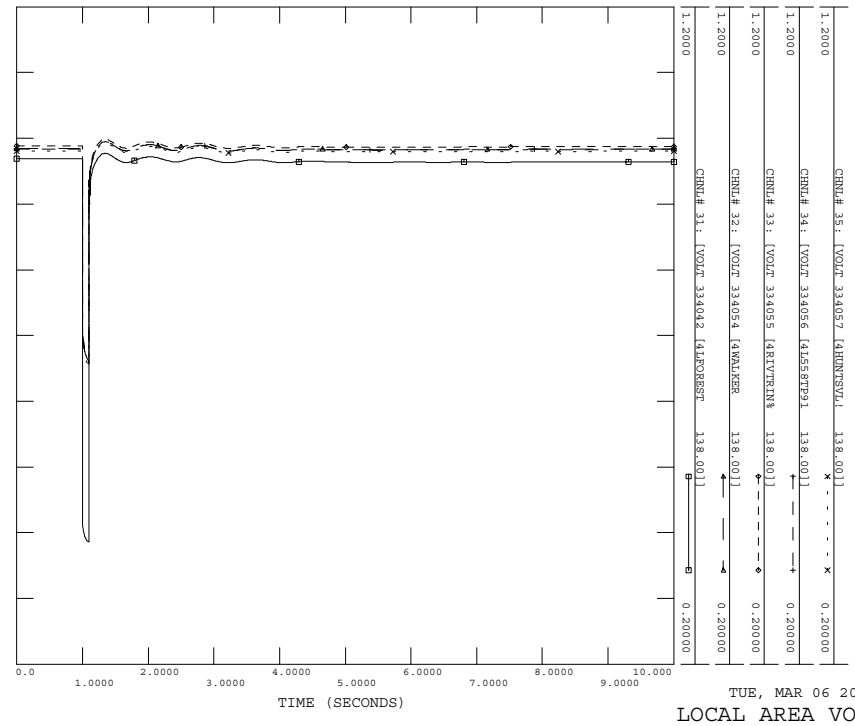
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



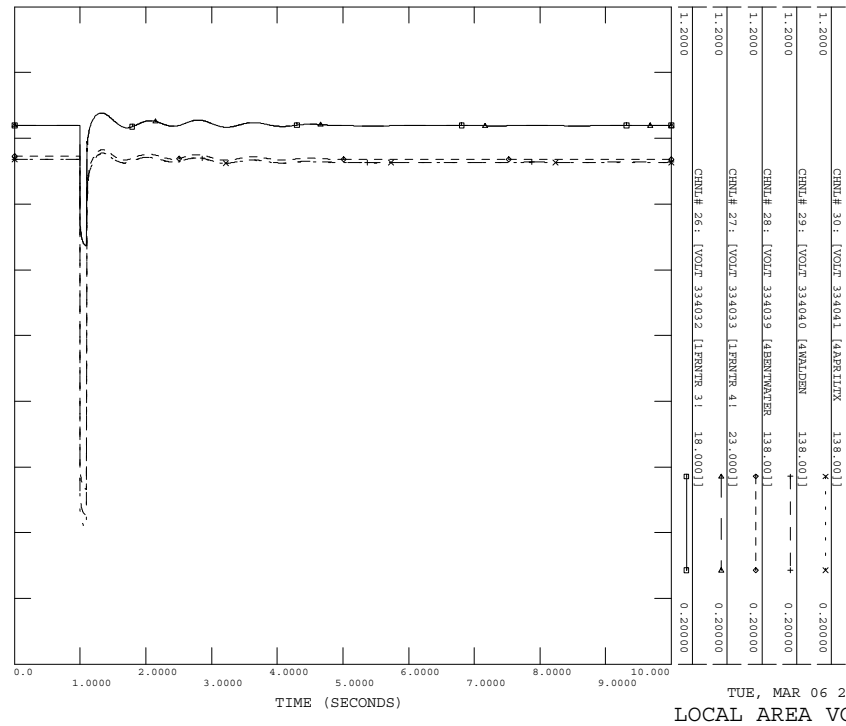
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



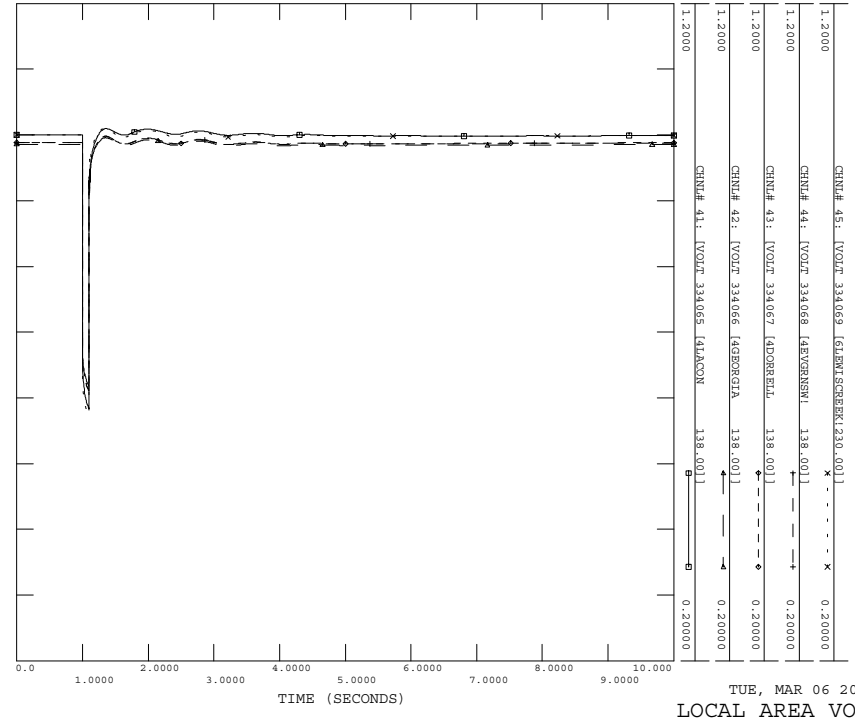
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



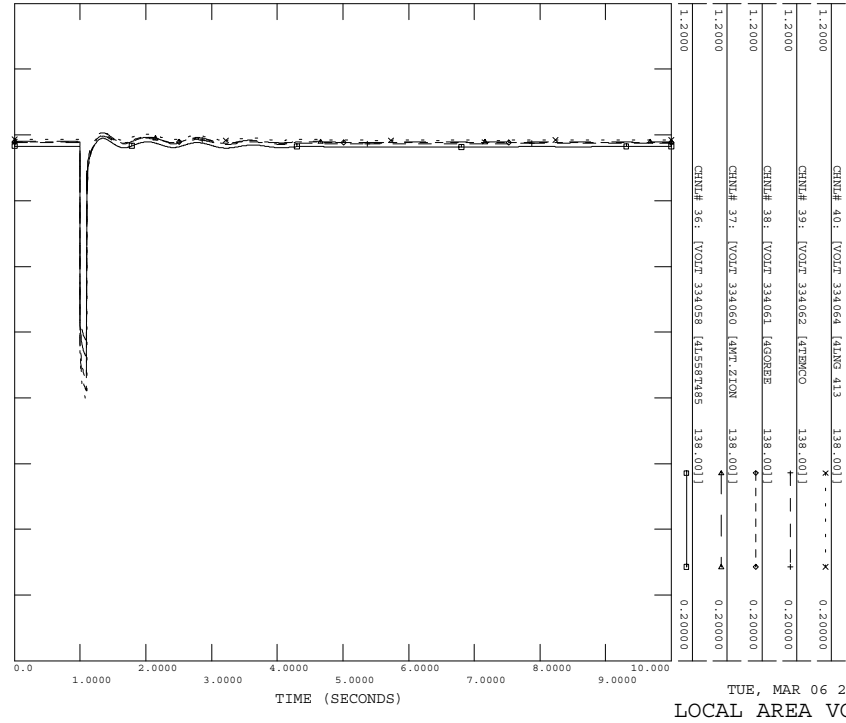
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



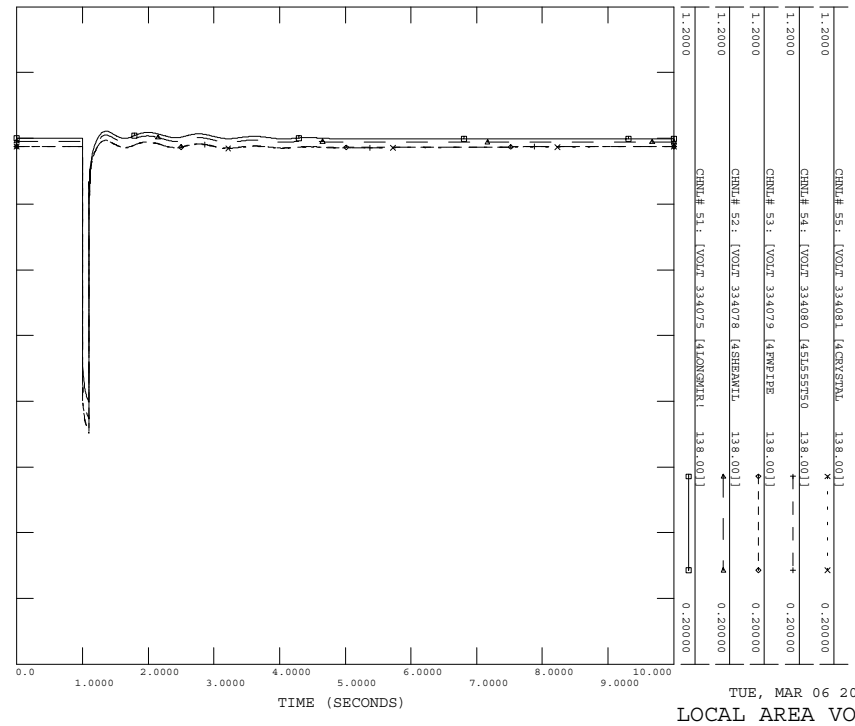
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



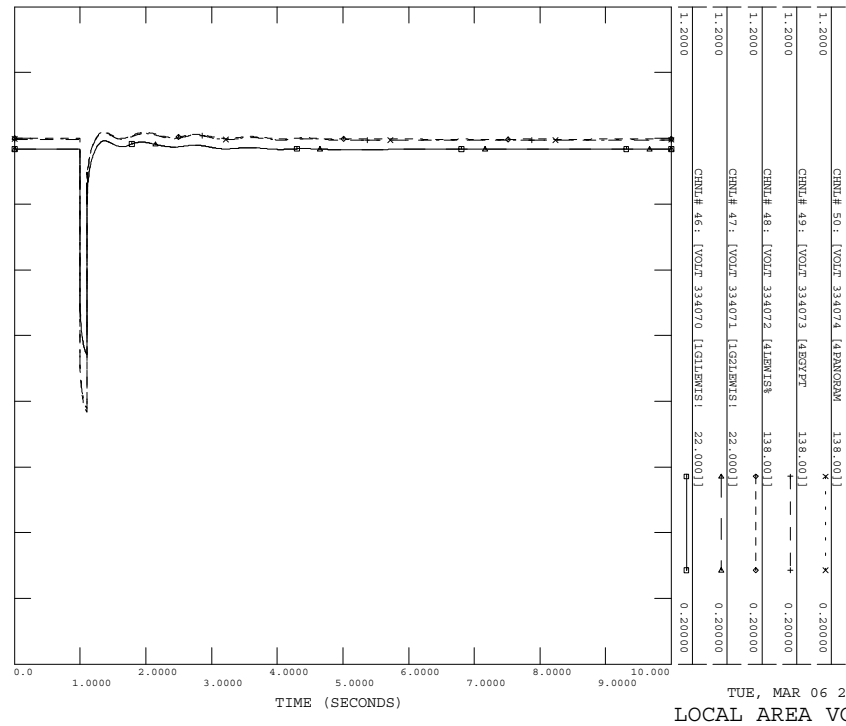
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT

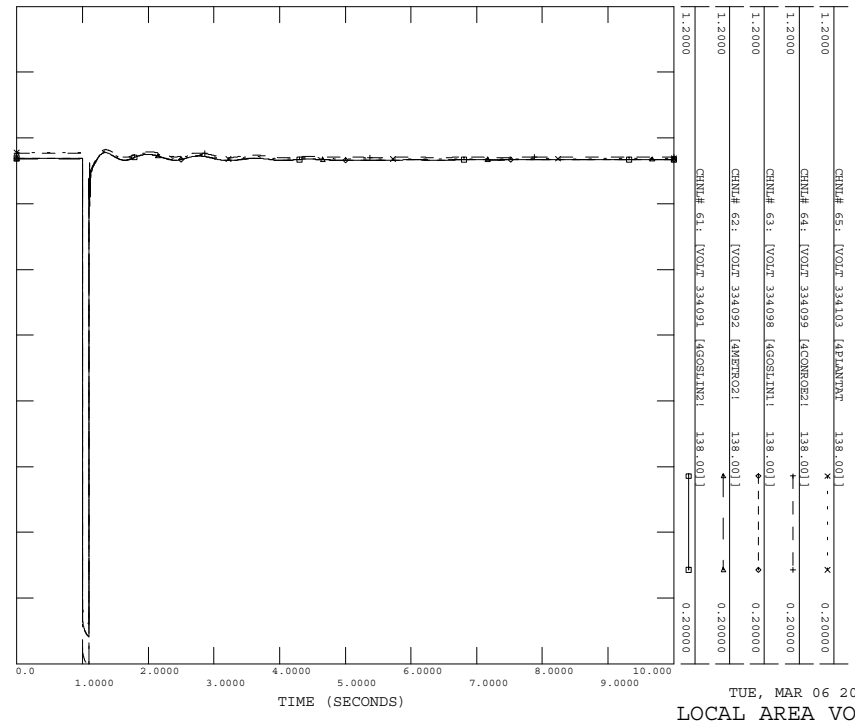


6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT

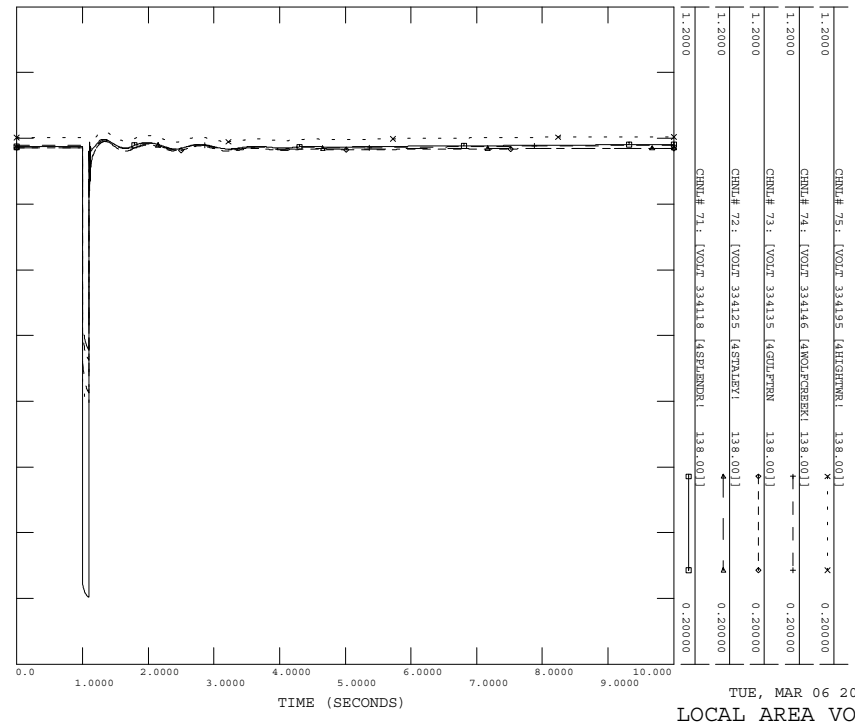




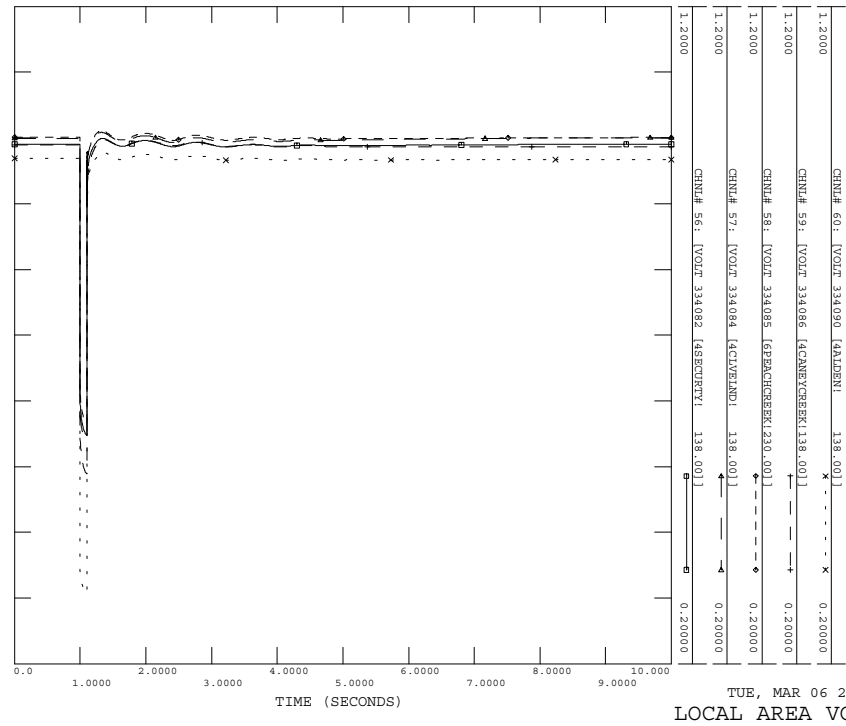
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



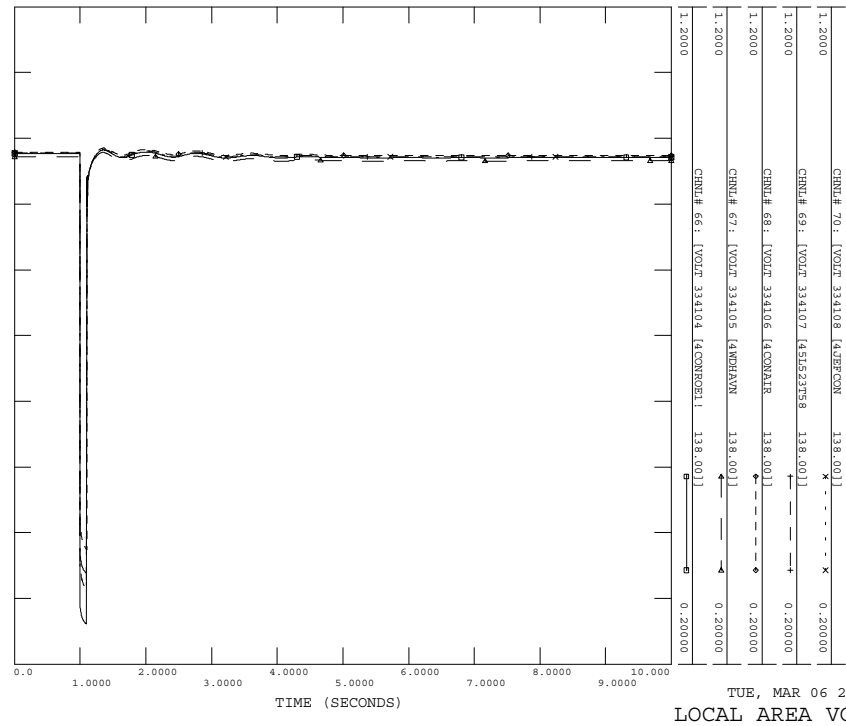
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



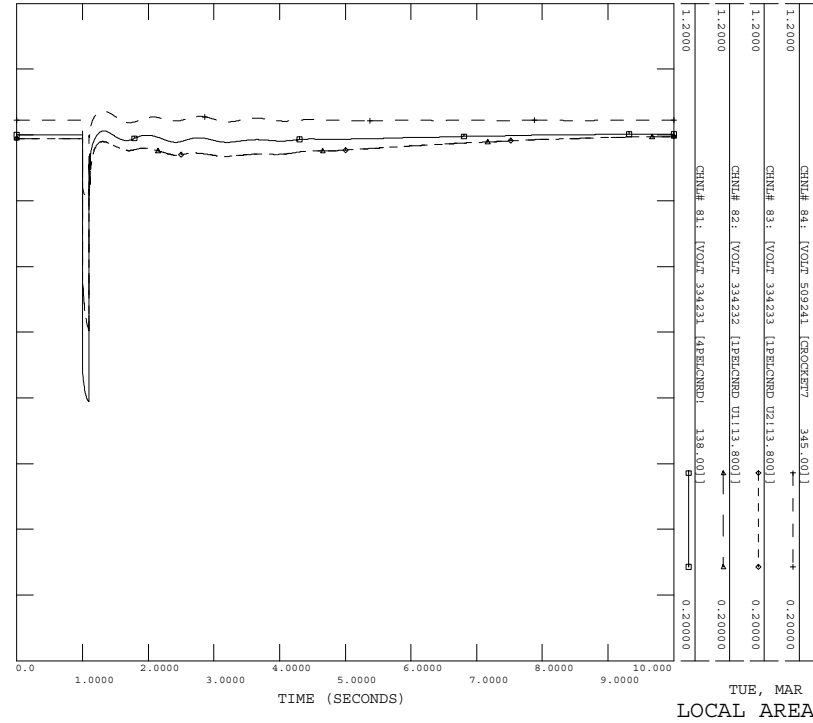
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



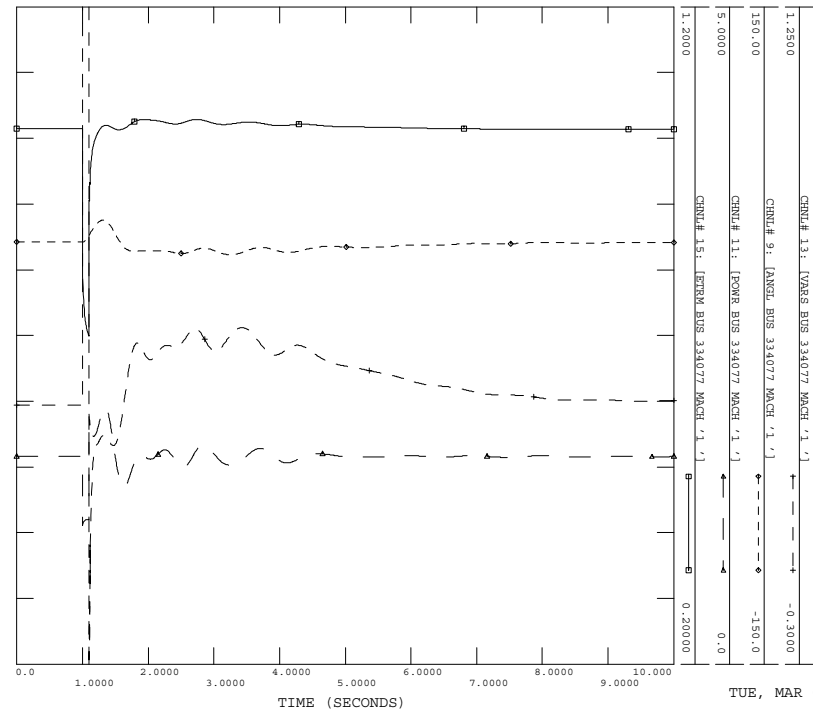
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



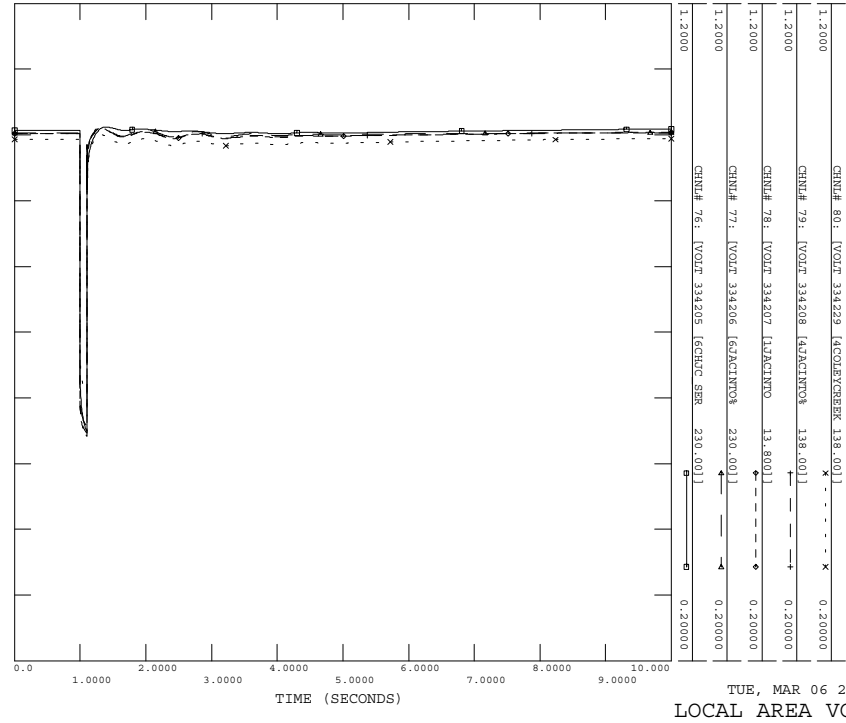
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



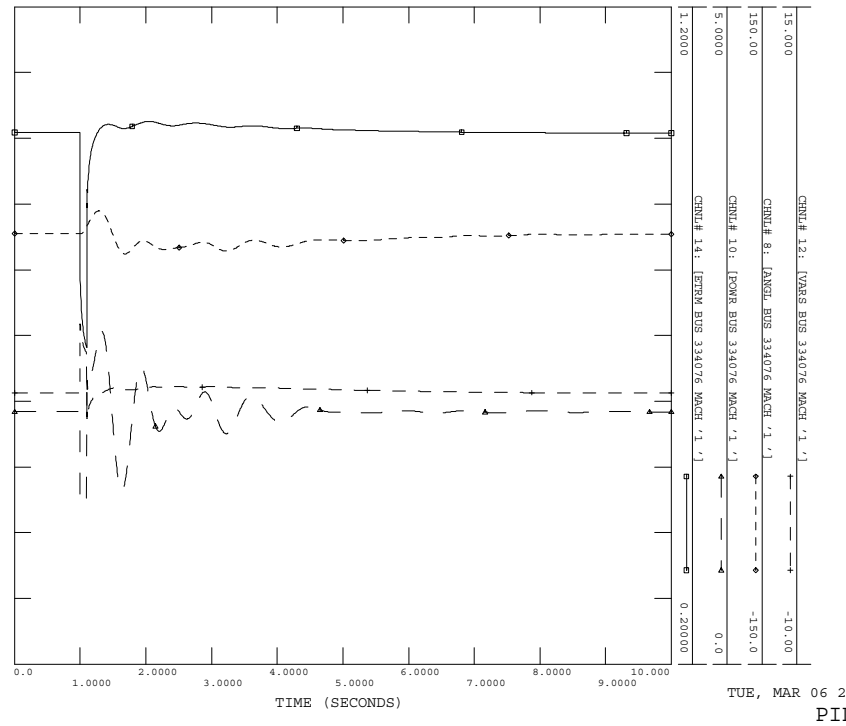
6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT



6CY 3PH FAULT PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV  
 FILE: Fault-21.OUT

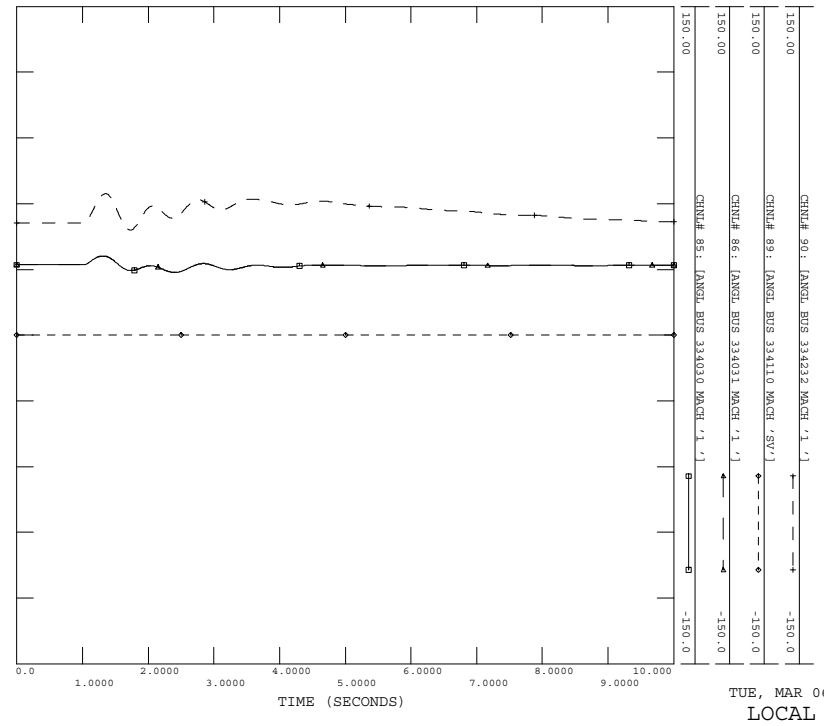


### **C.1.22      FAULT-22**

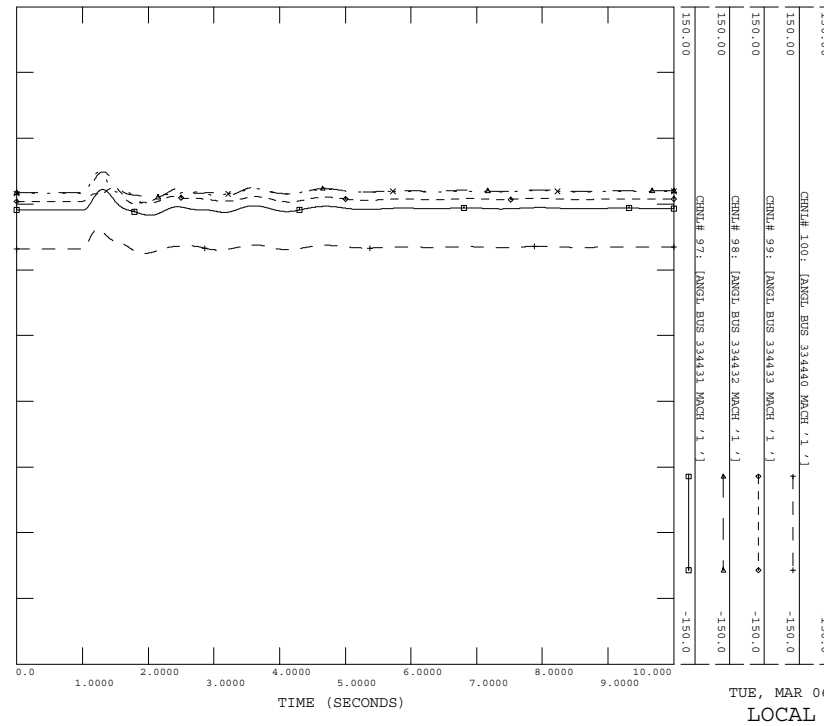
3 phase fault on the Porter– Oak Ridge 138 kV

- a) Apply fault at Porter 138kV bus
- b) Clear fault after 6 cycles by tripping the Porter– Oak Ridge 138 kV

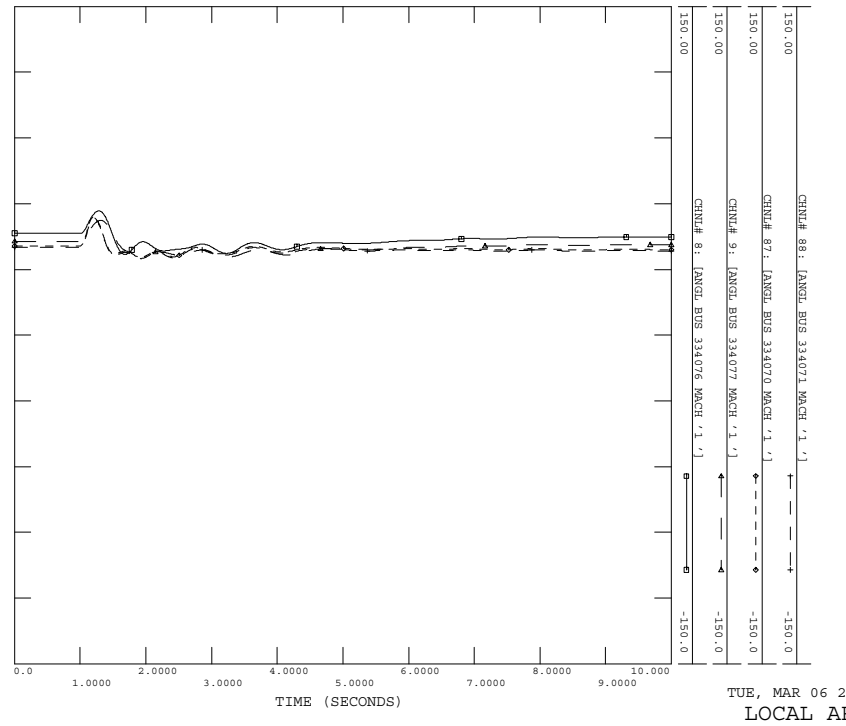
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



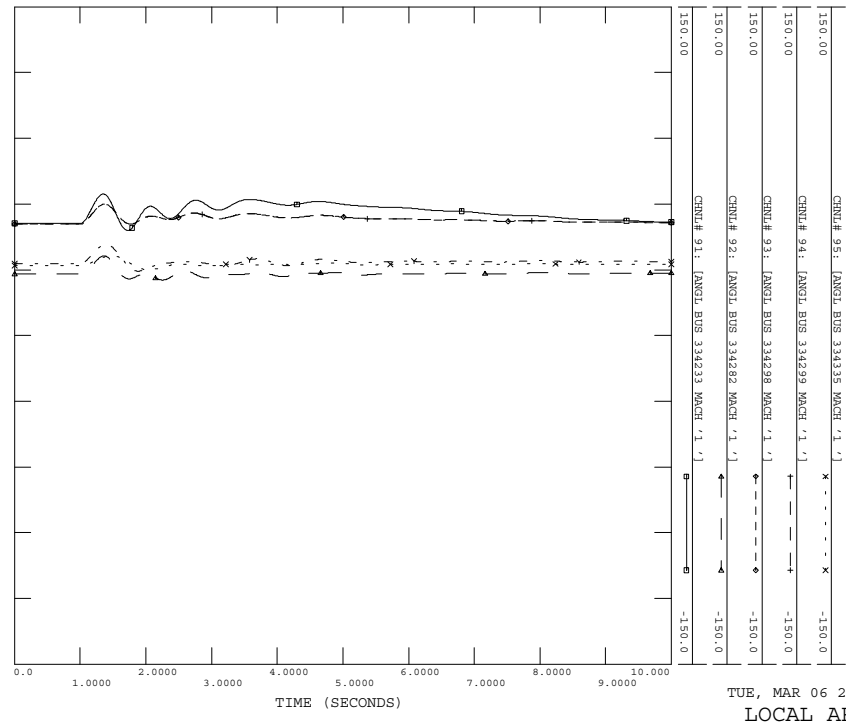
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



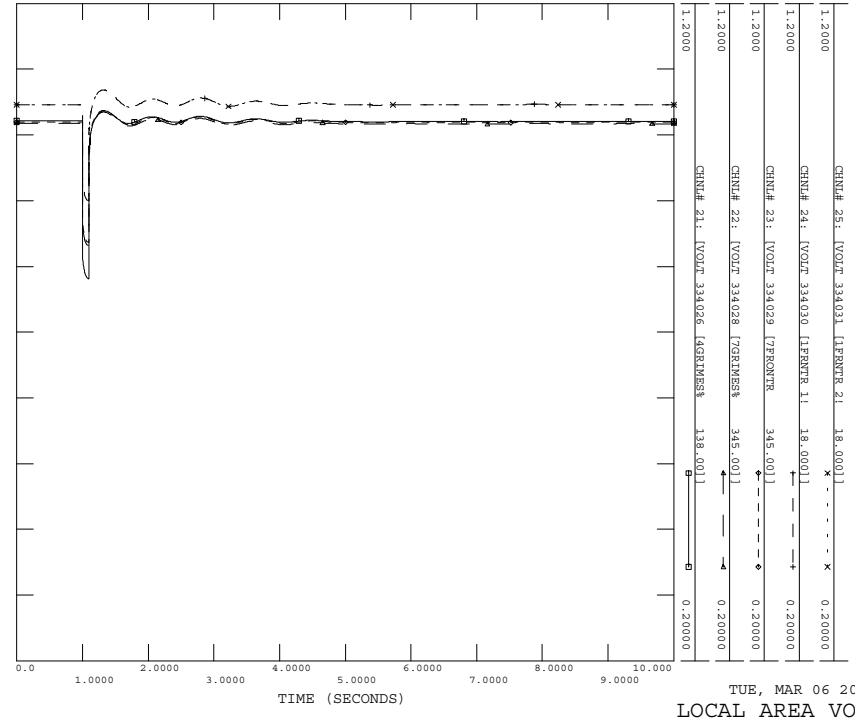
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



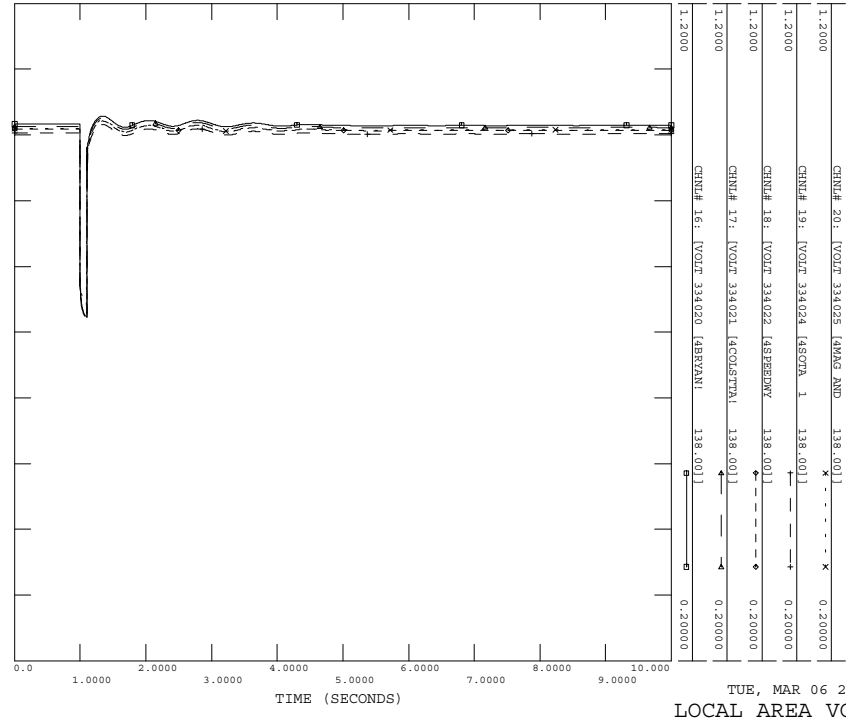
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



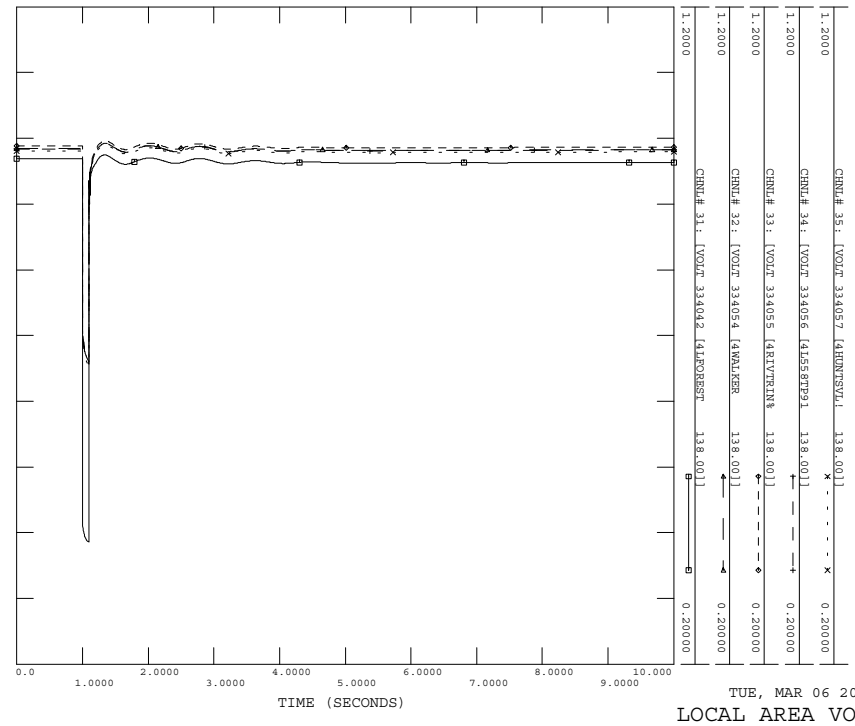
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



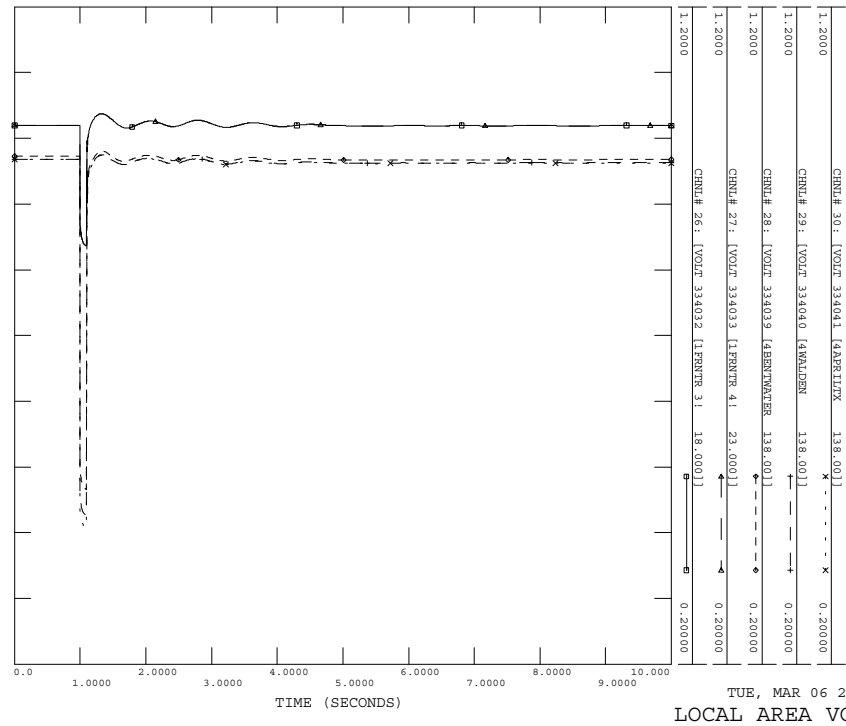
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



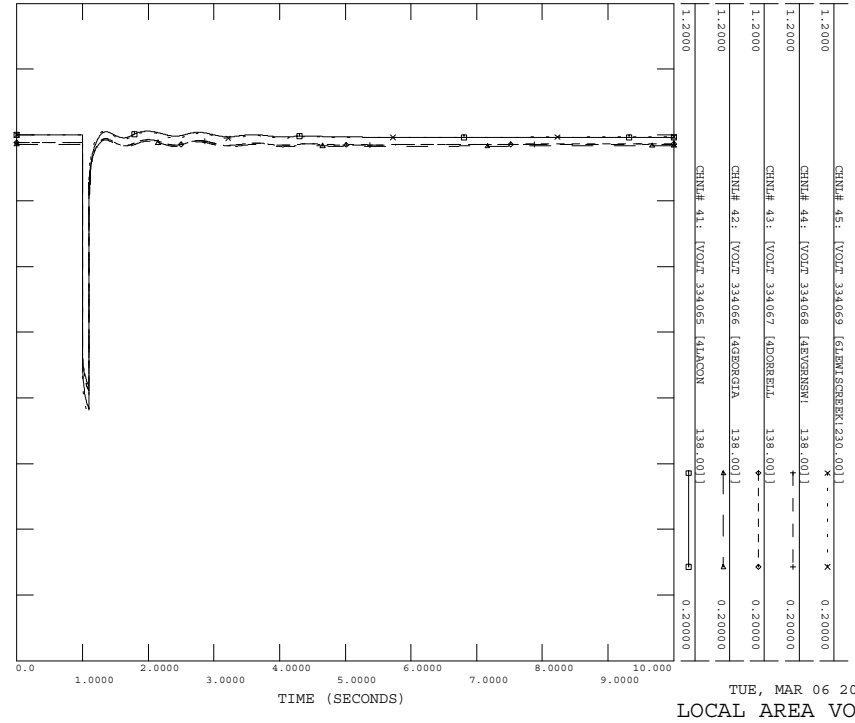
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



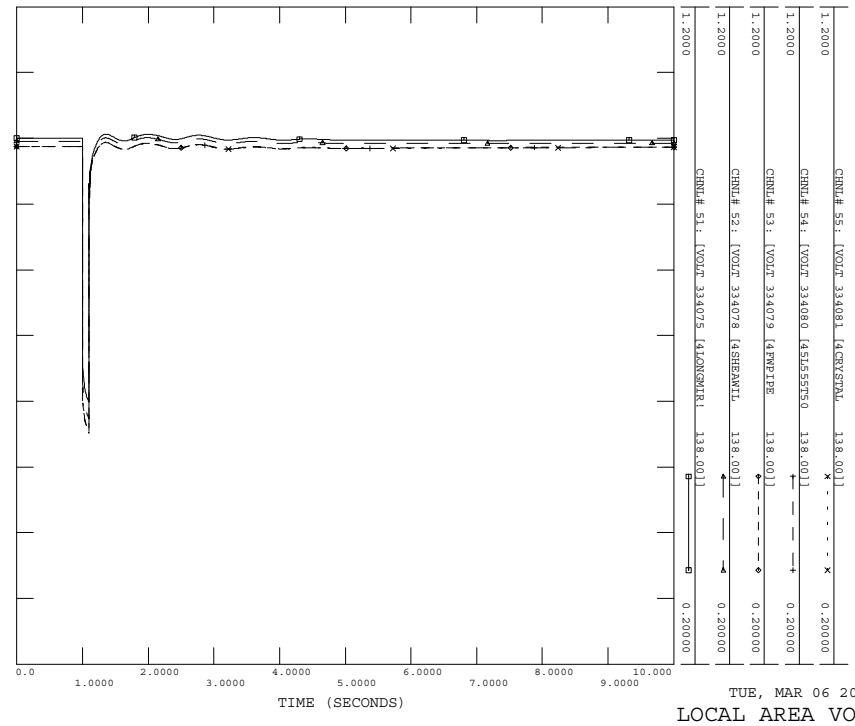
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



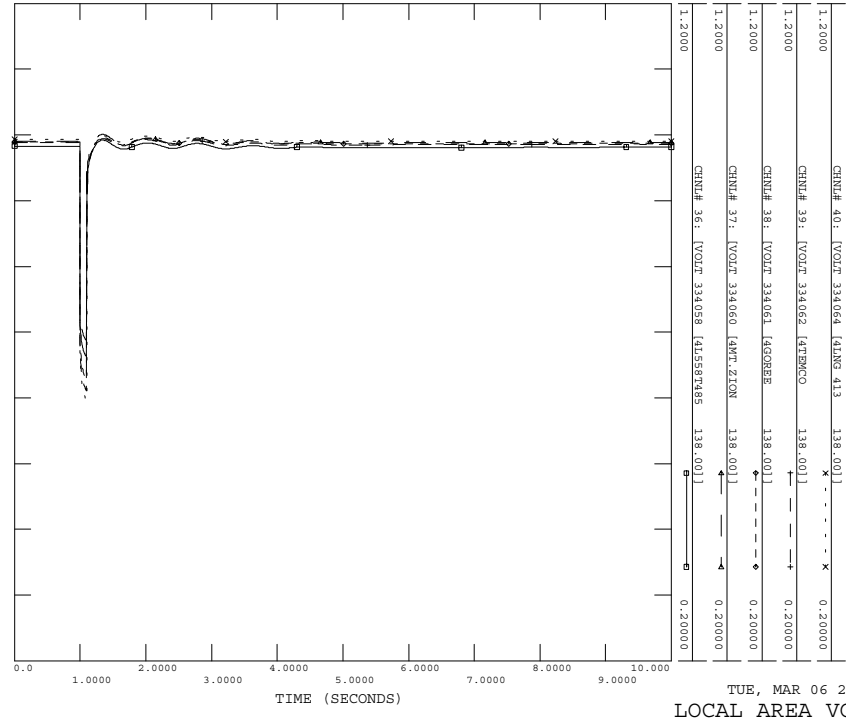
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



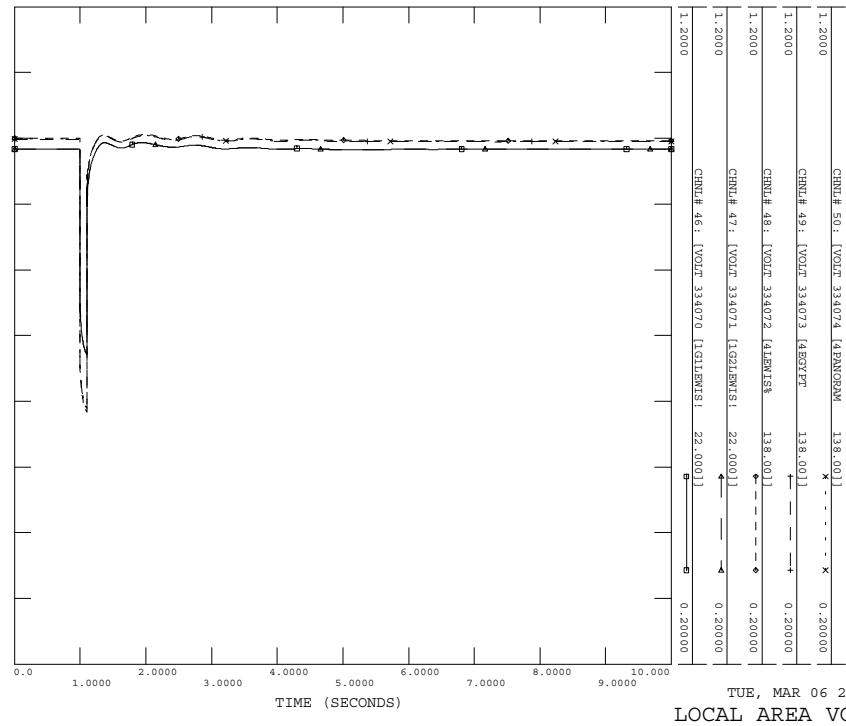
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



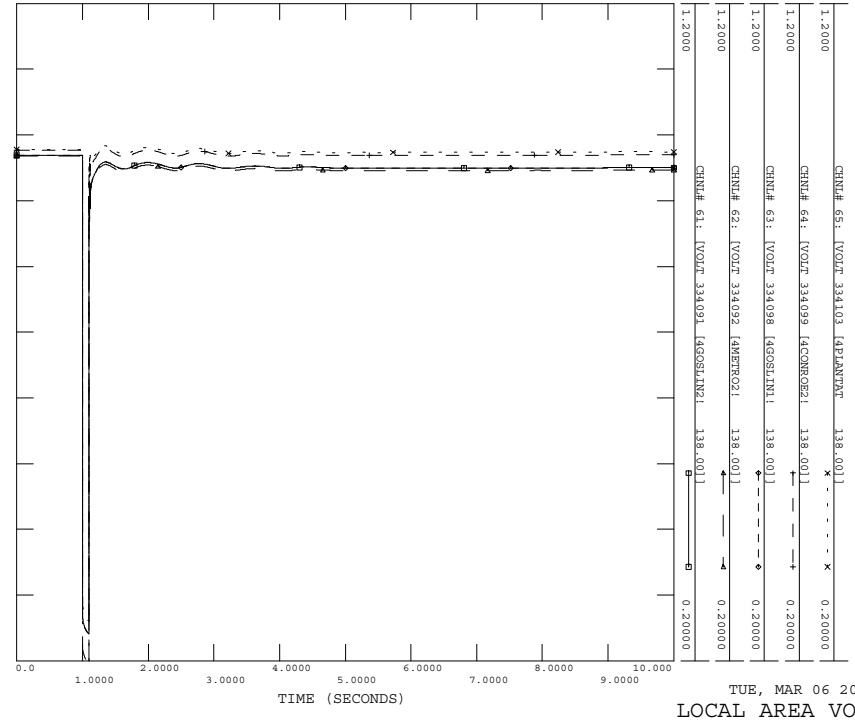
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



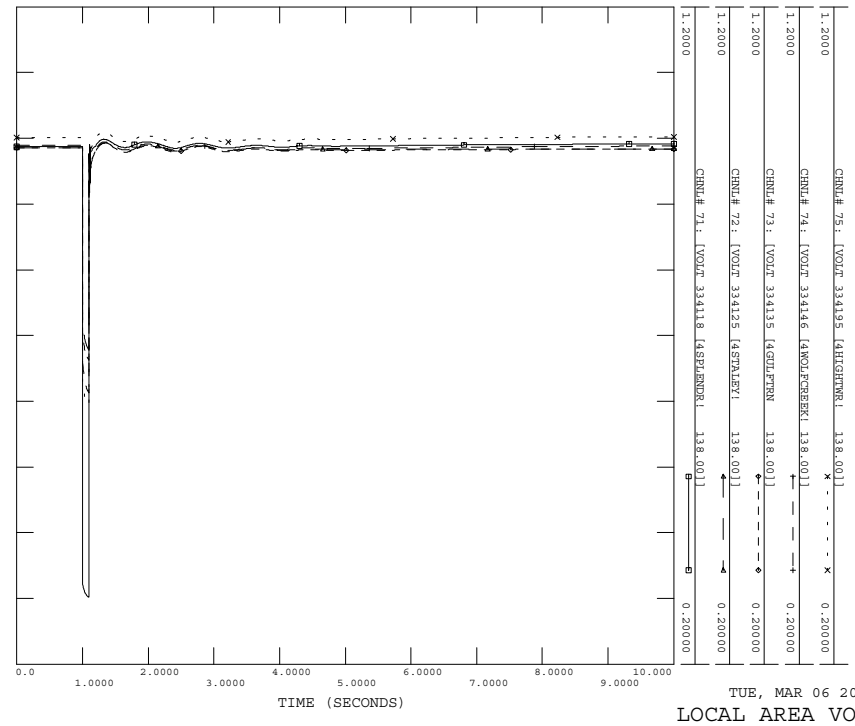
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



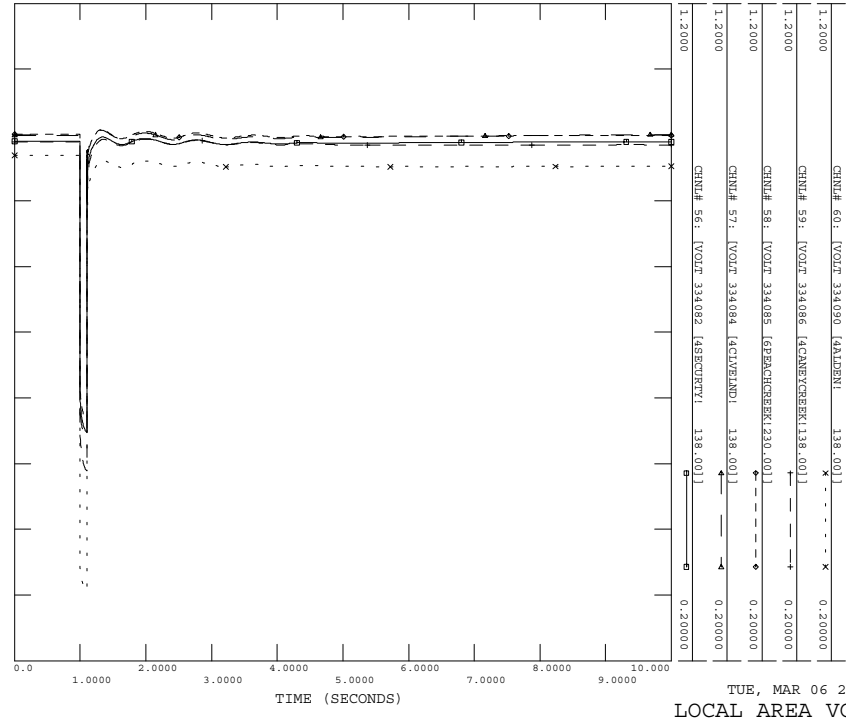
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



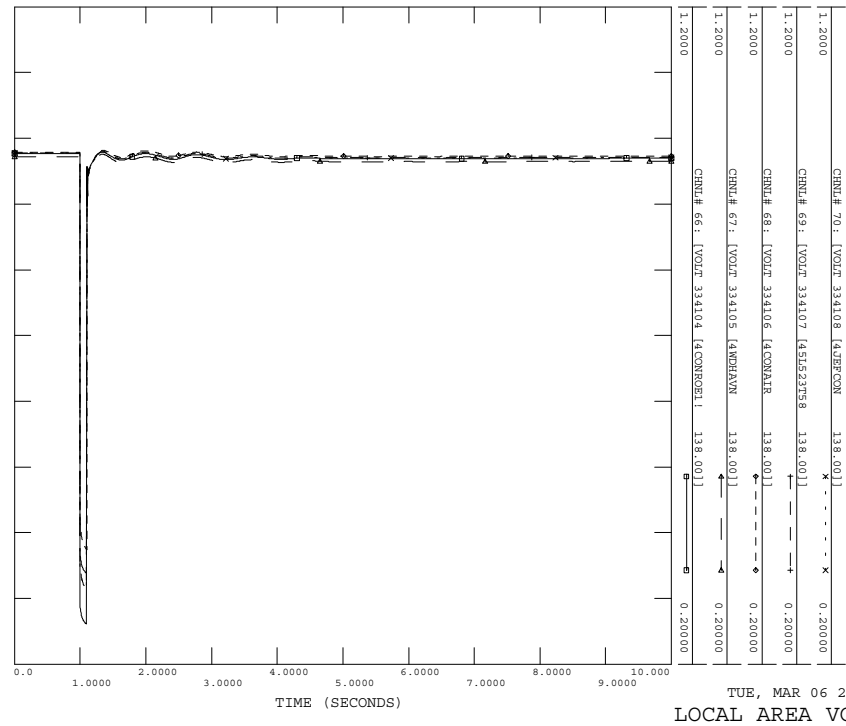
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



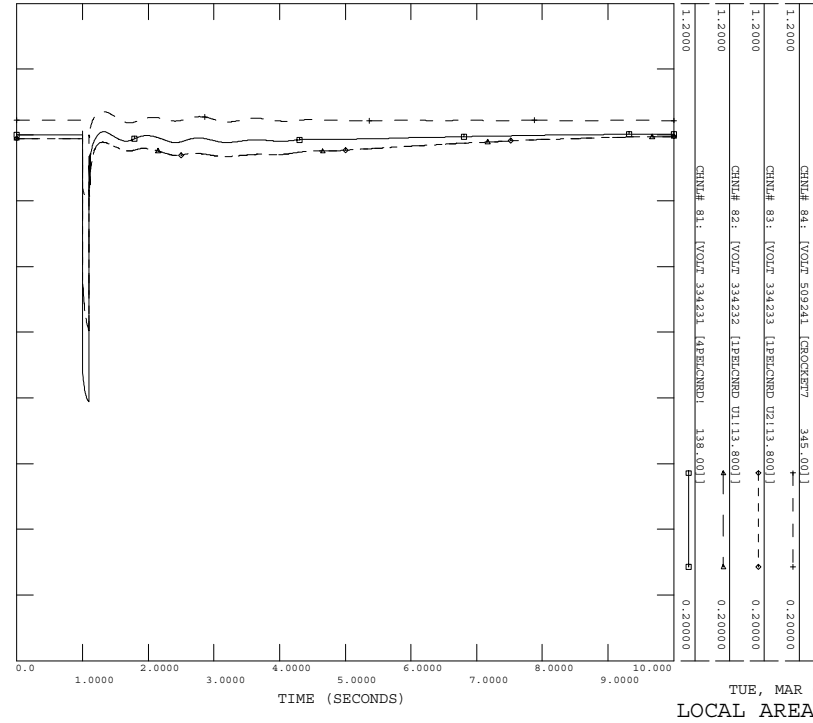
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



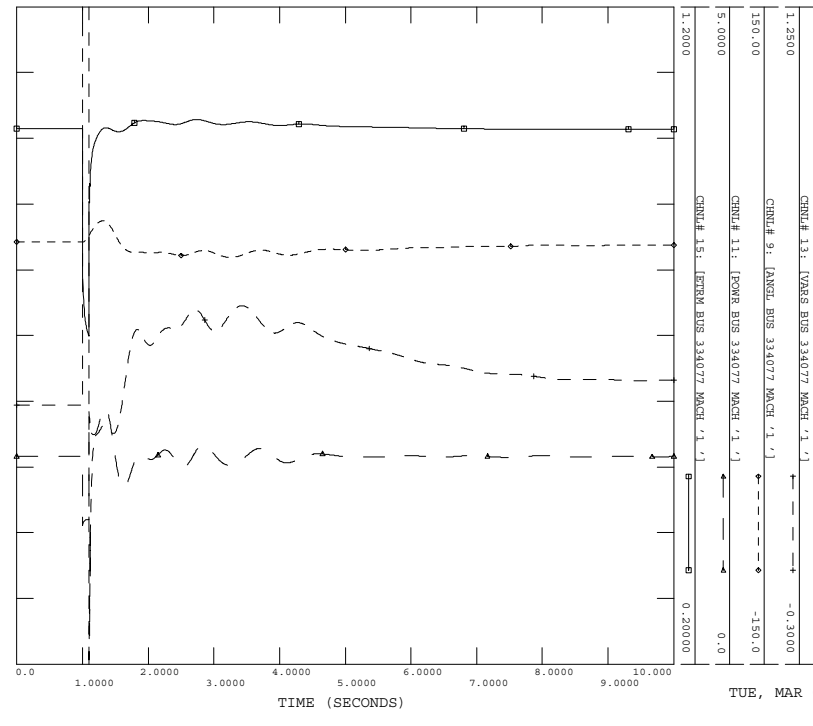
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



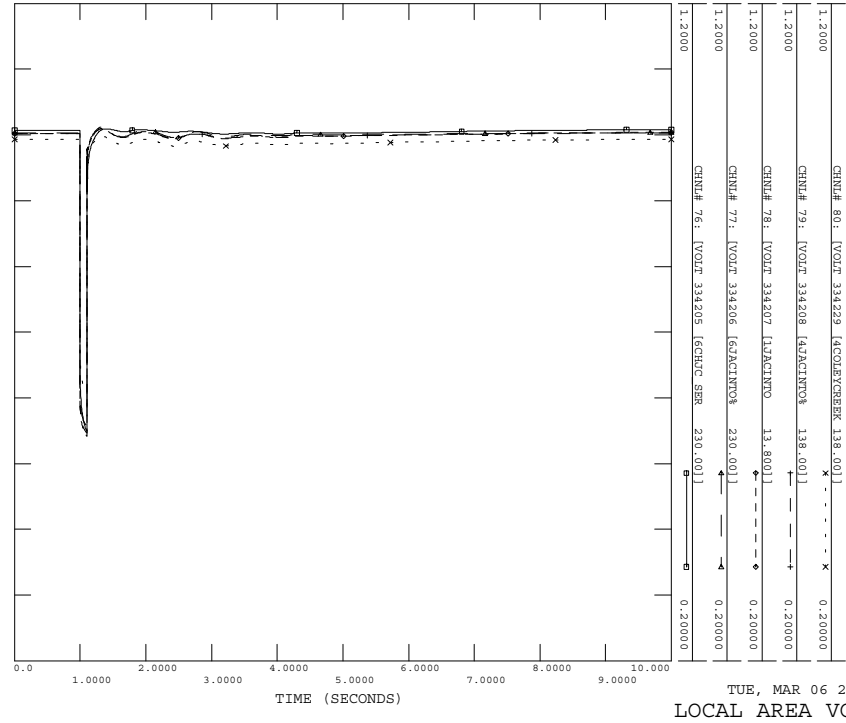
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



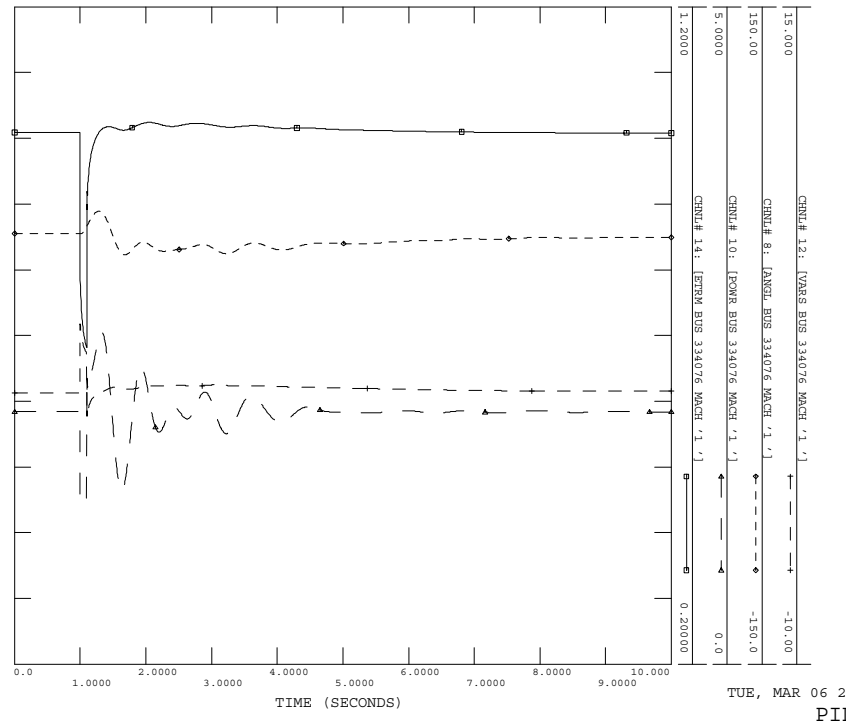
6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



6CY 3PH FAULT PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV  
 FILE: Fault-22.OUT



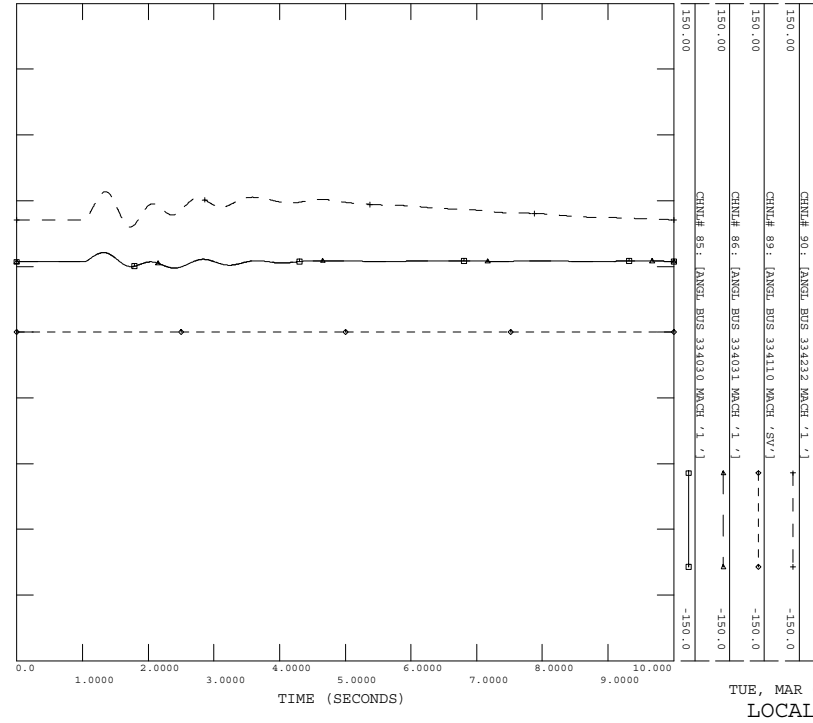


### **C.1.23      FAULT-23**

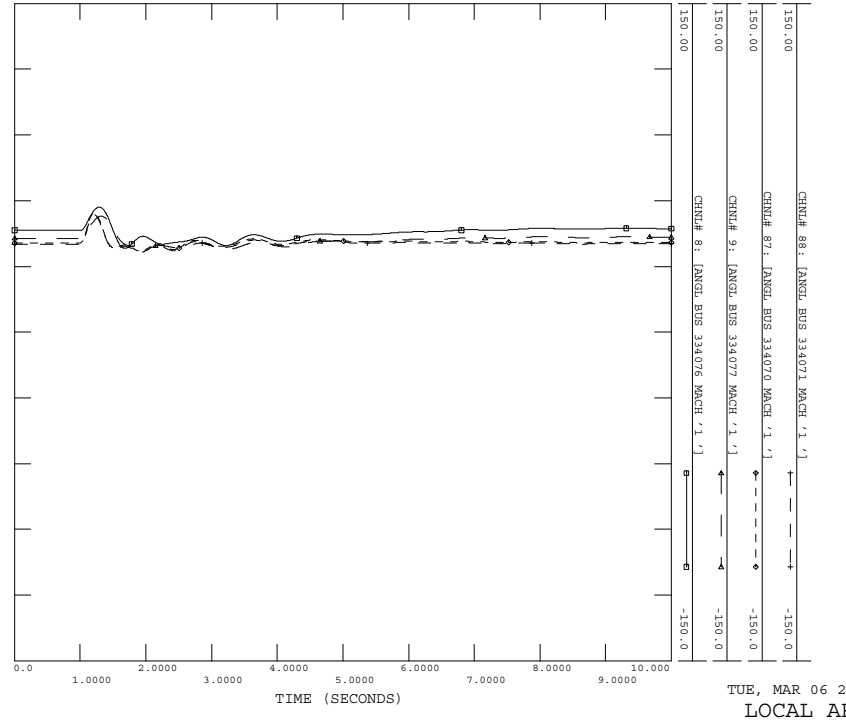
3 phase fault on the Porter 230/138 kV trafo

- a) Apply fault at Porter 138kV bus
- b) Clear fault after 6 cycles by tripping the Porter 230/138 kV trafo

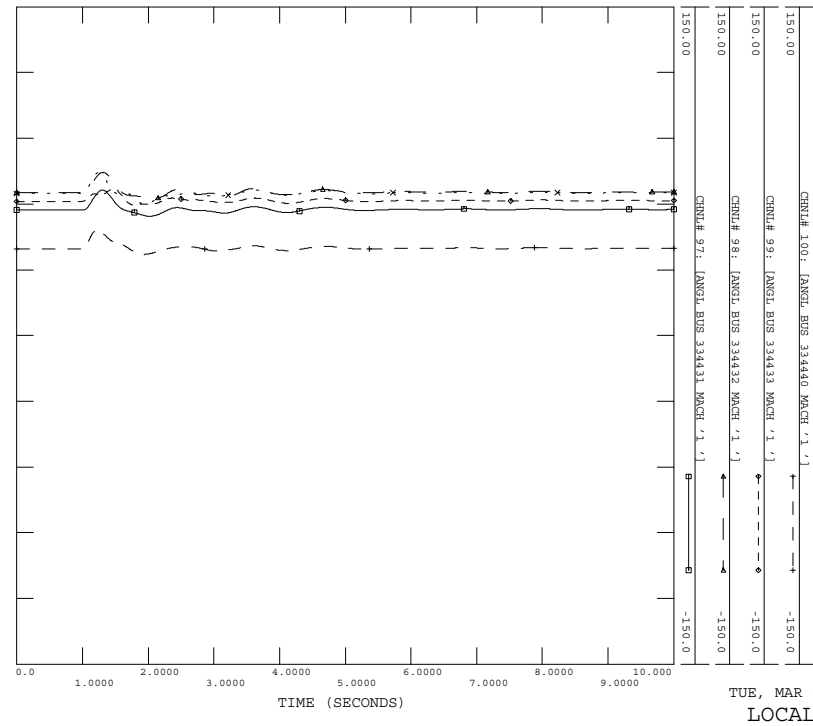
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



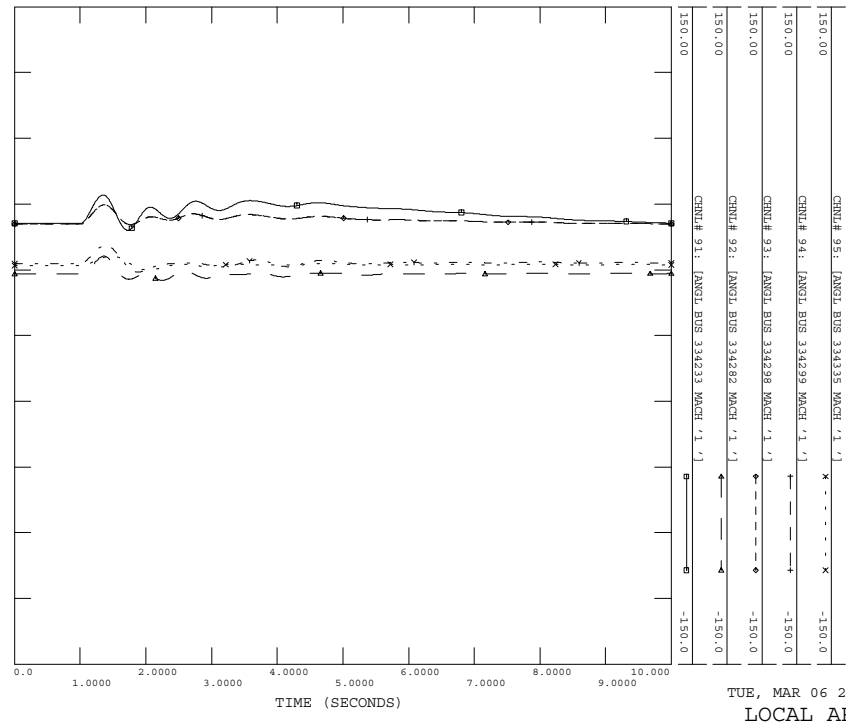
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



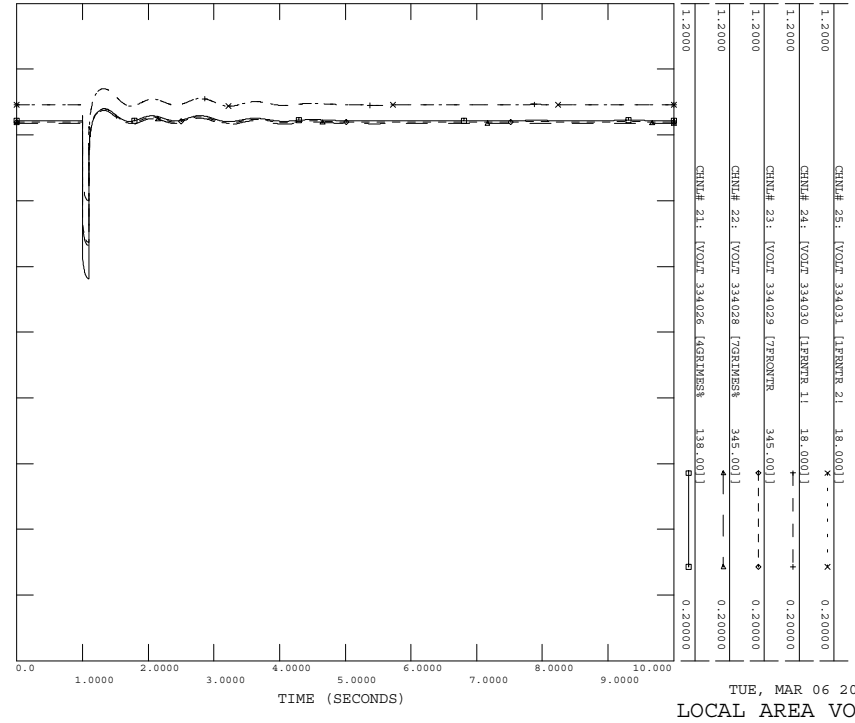
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



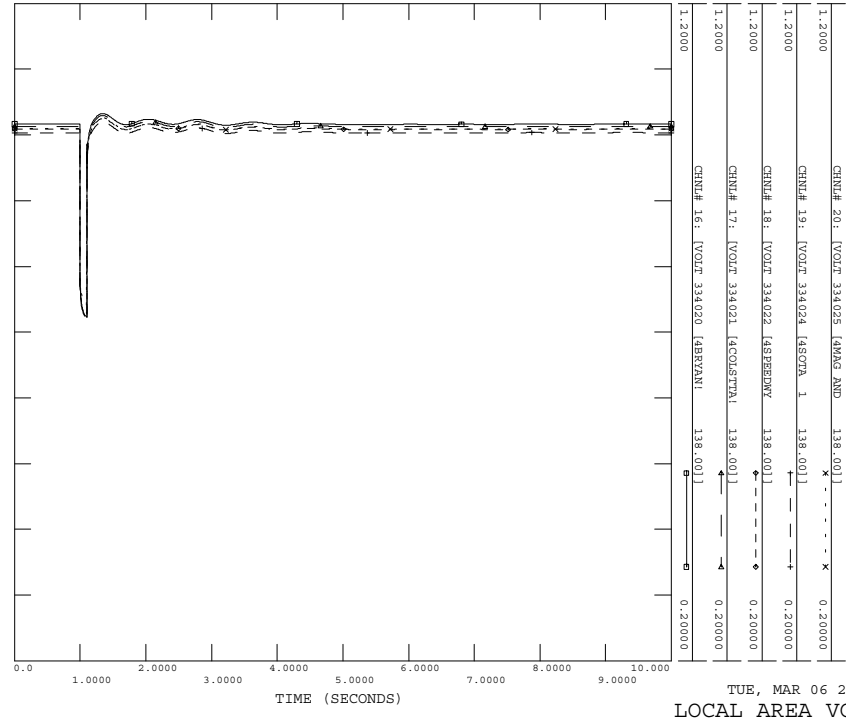
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



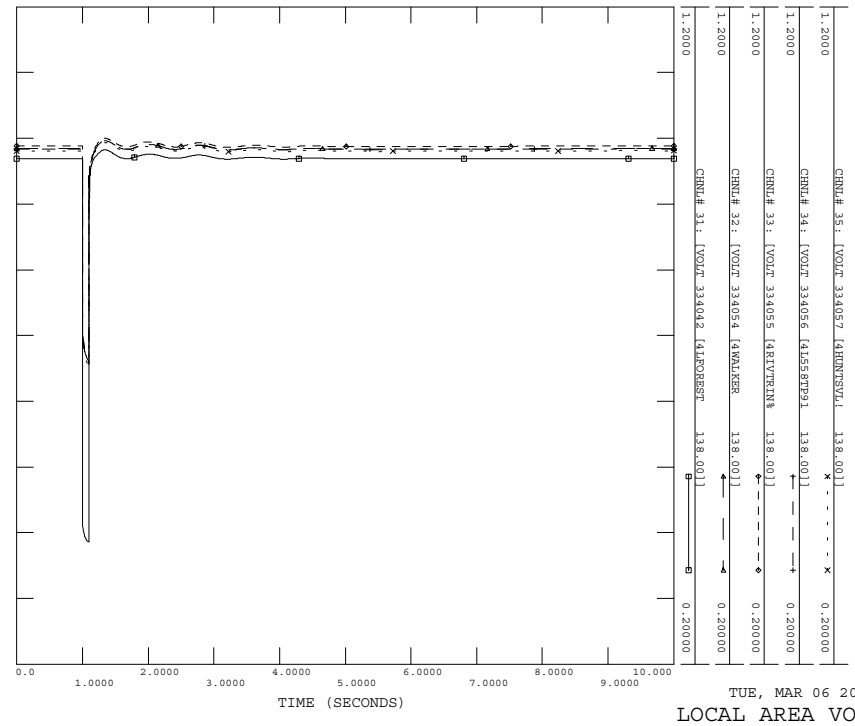
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



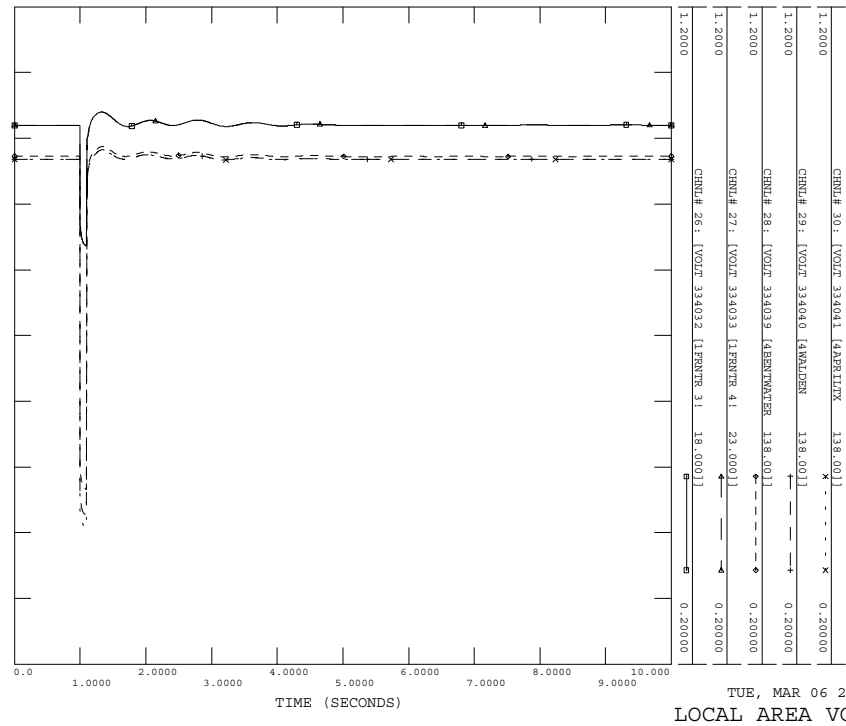
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



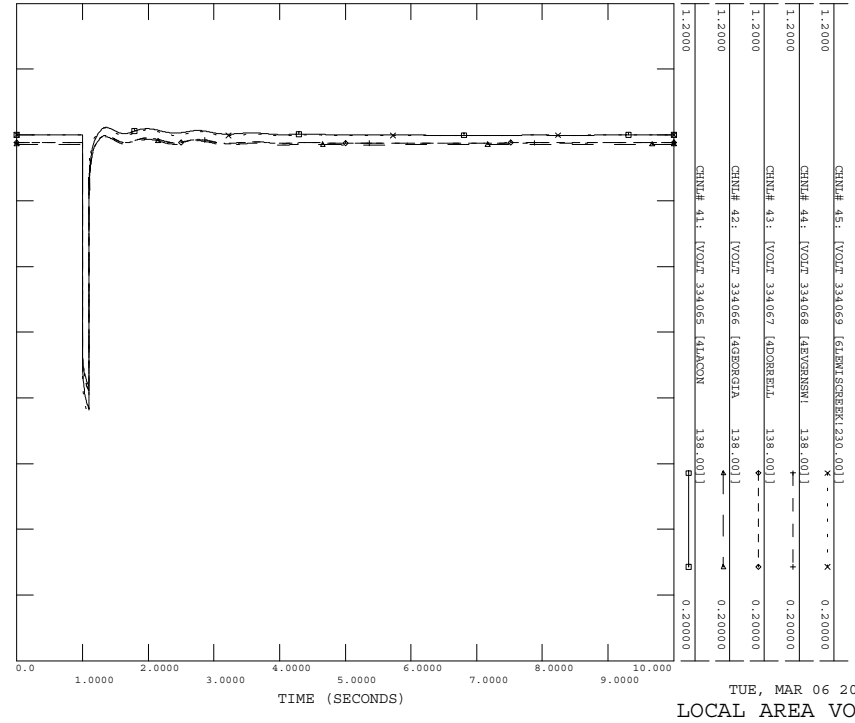
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



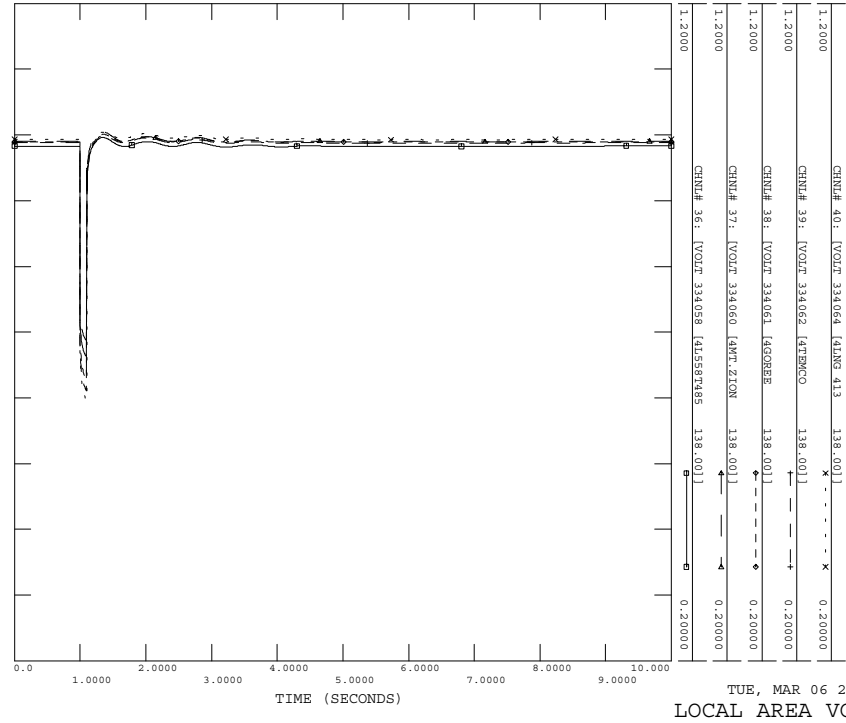
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



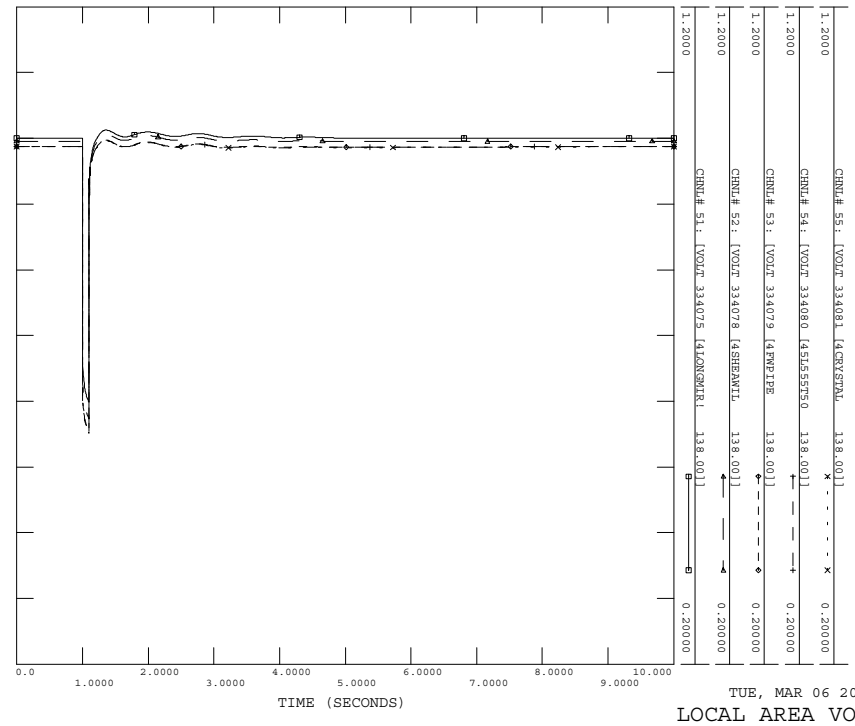
6CY 3PH FAULT PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO  
 FILE: Fault-23.OUT



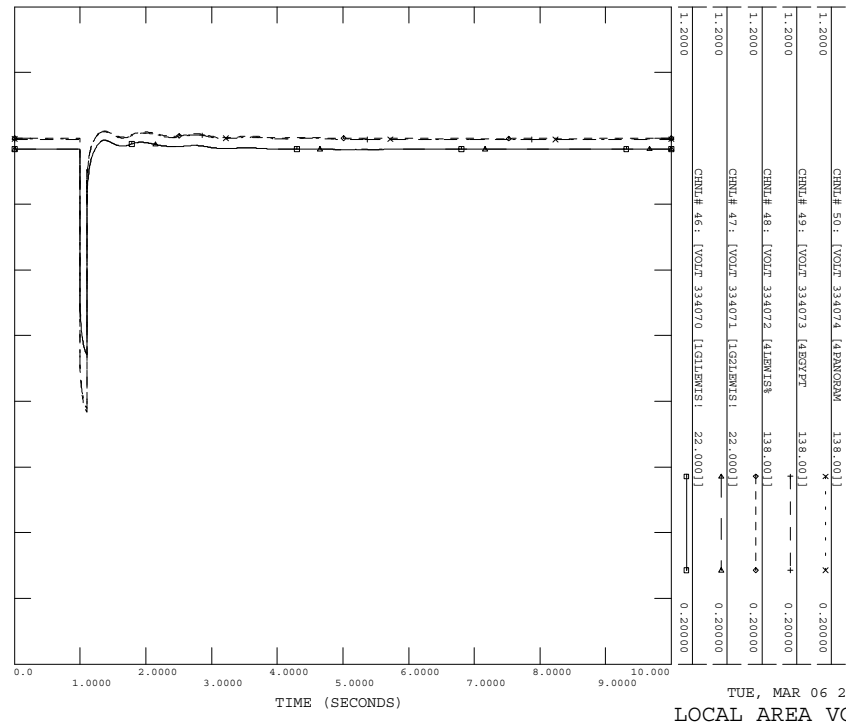
6CY 3PH FAULT PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO  
 FILE: Fault-23.OUT



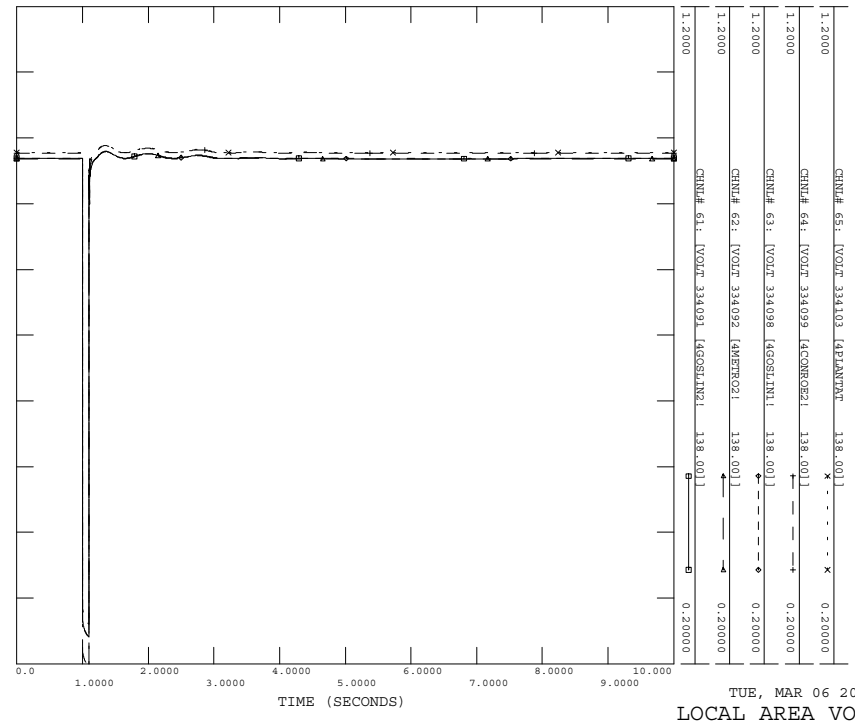
6CY 3PH FAULT PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO  
 FILE: Fault-23.OUT



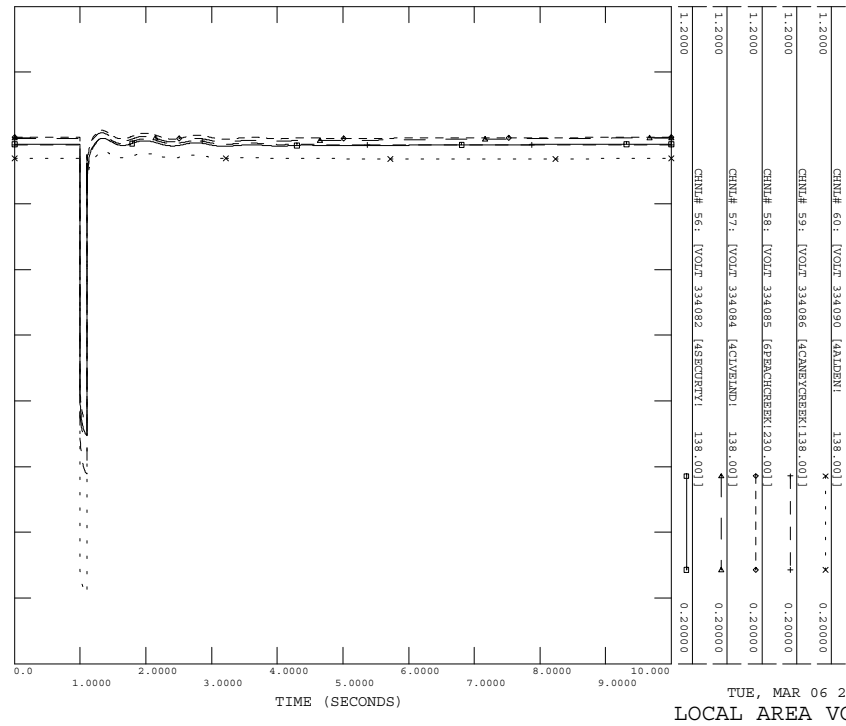
6CY 3PH FAULT PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO  
 FILE: Fault-23.OUT



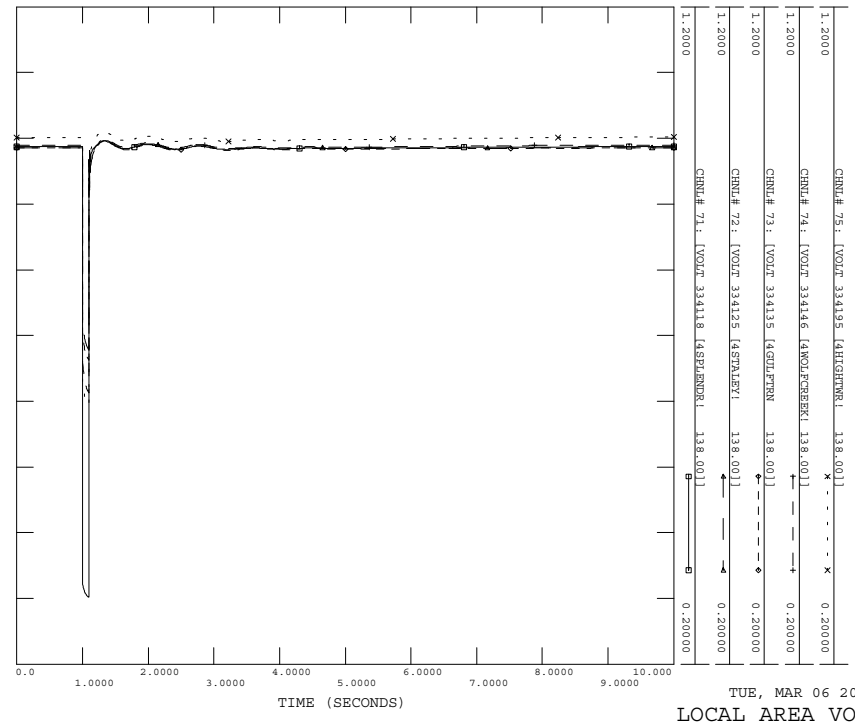
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



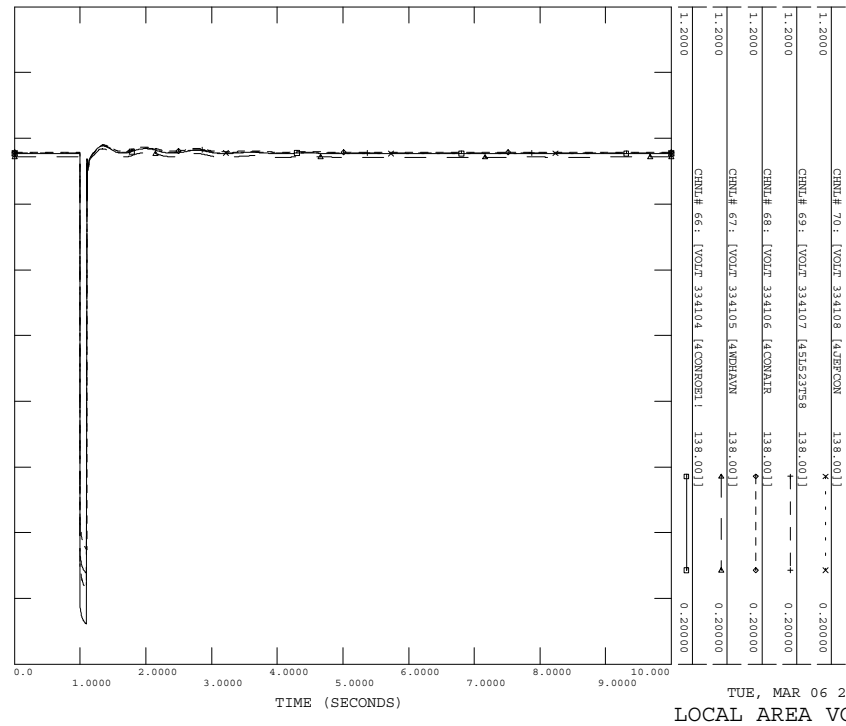
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



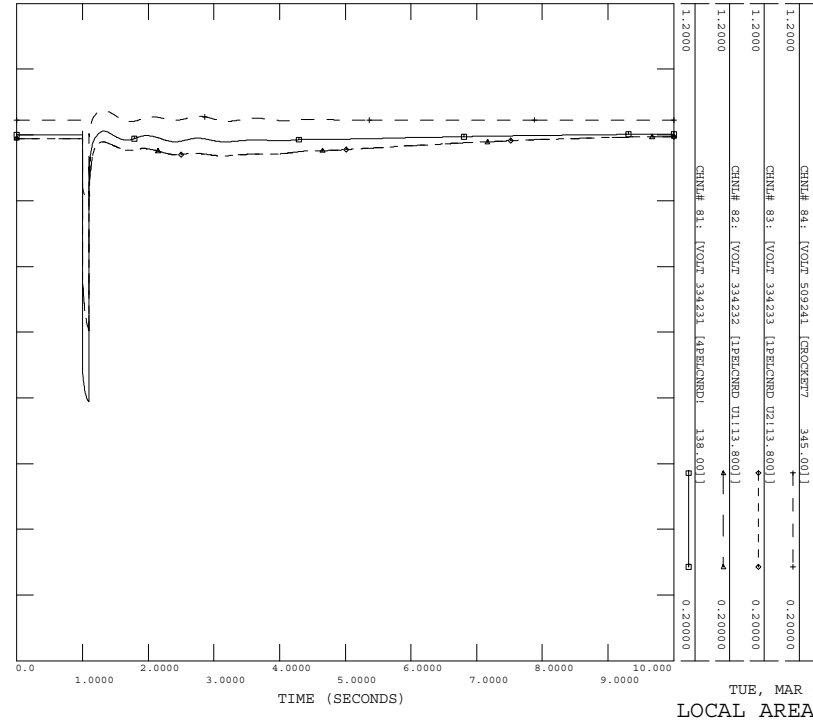
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



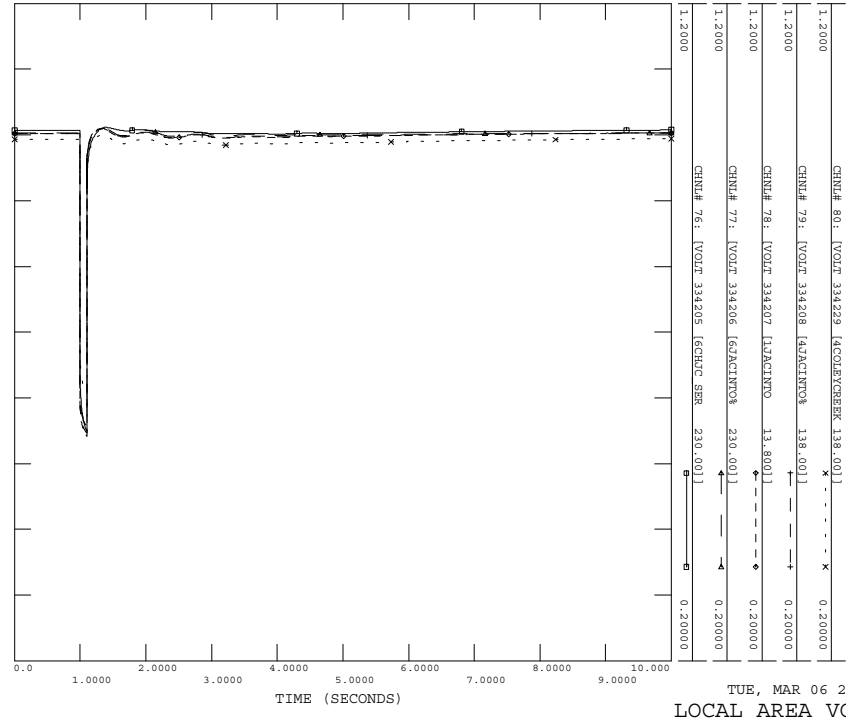
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



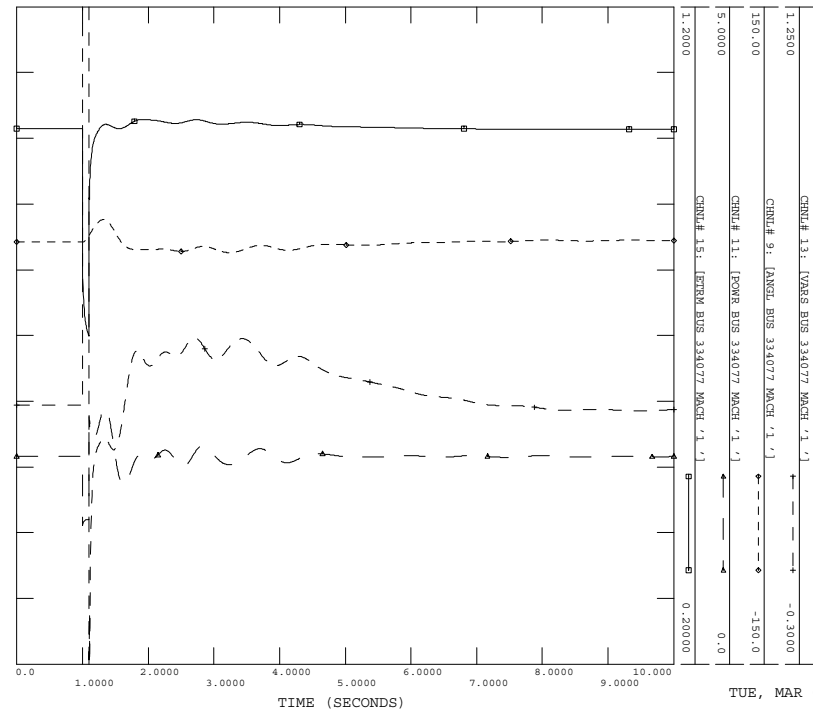
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



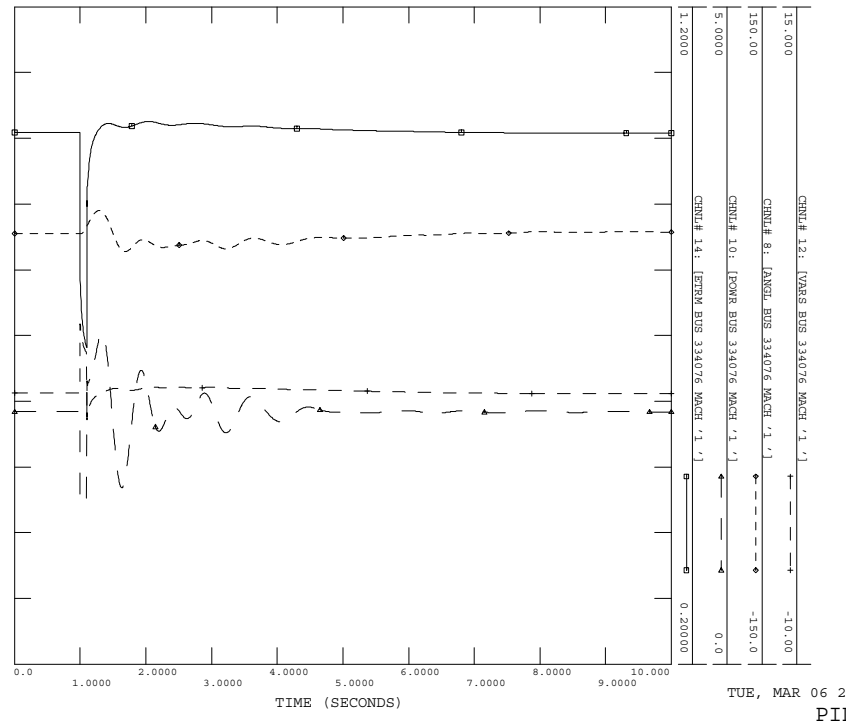
6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT



6CY 3PH FAULT PORTER 230/138 KV TRAF0  
 TRIP PORTER 230/138 KV TRAF0  
 FILE: Fault-23.OUT

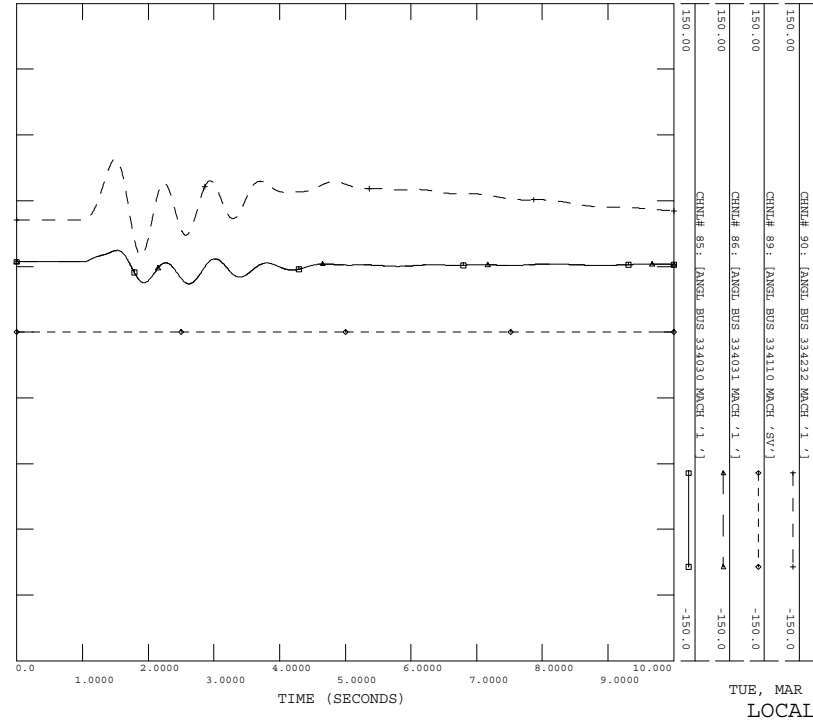


### **C.1.24 FAULT-1A**

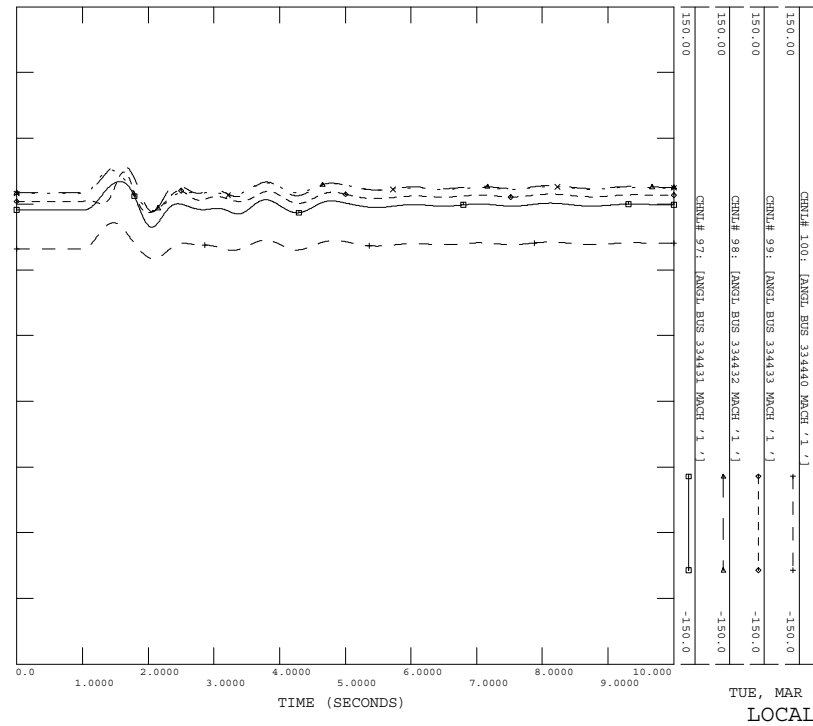
1 phase fault on the Lewis Creek-Longmire 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek-Longmire 138 kV
- c) Breaker (1665) Stuck at Lewis Creek
- d) Clear fault after 13 cycles by tripping the secondary breakers

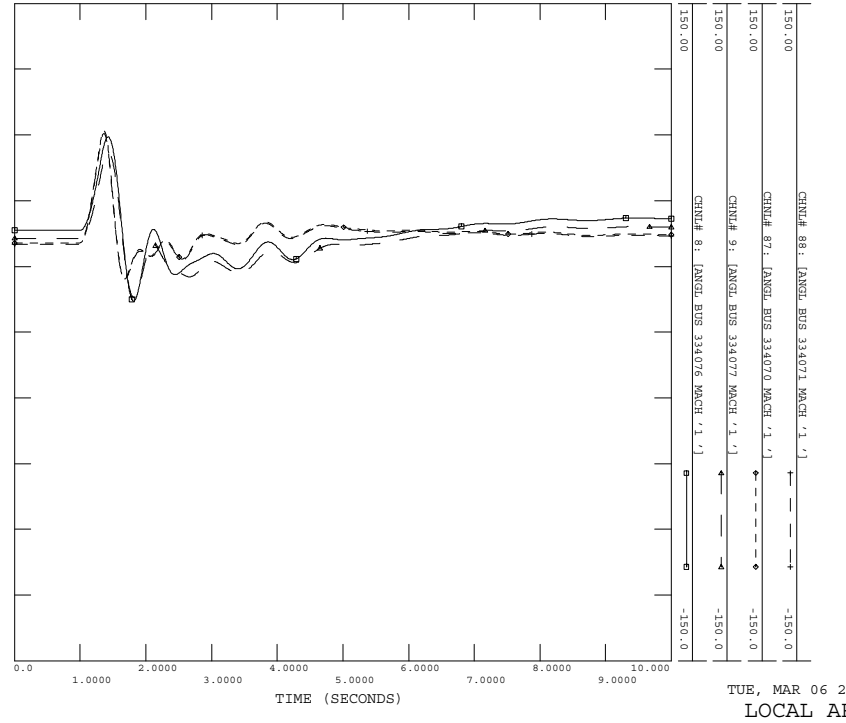
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



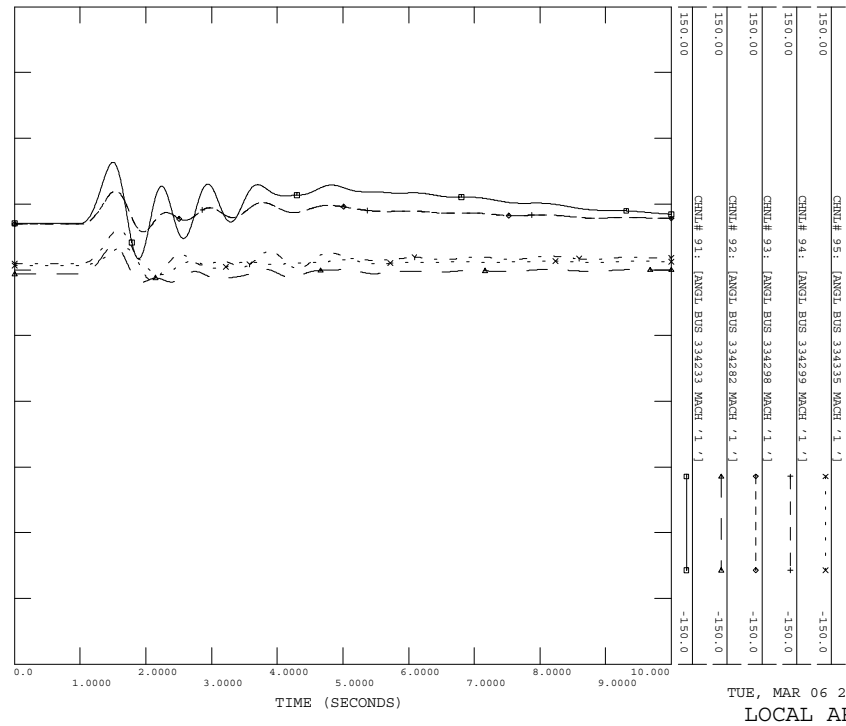
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT

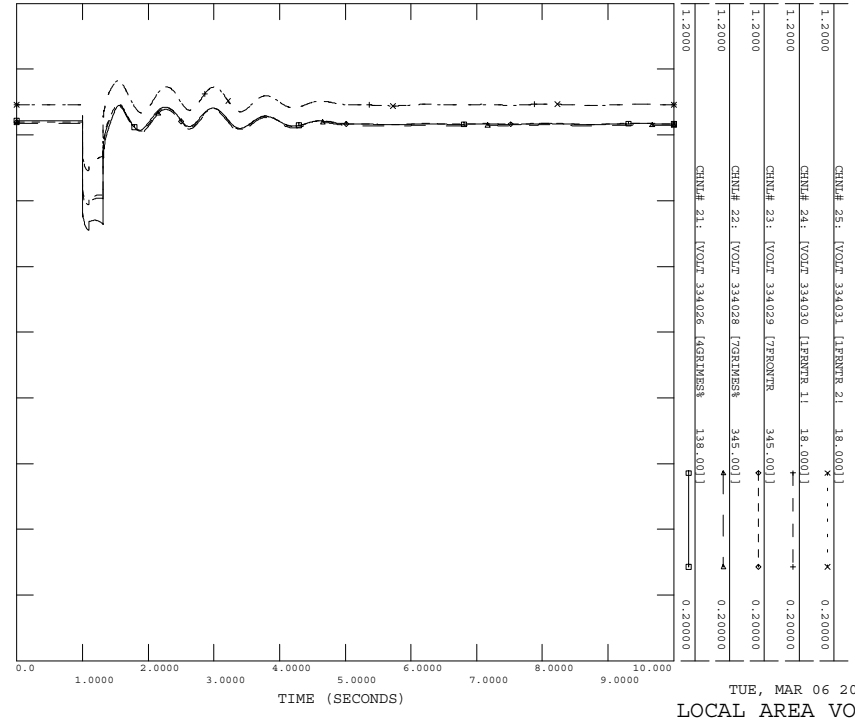


6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT

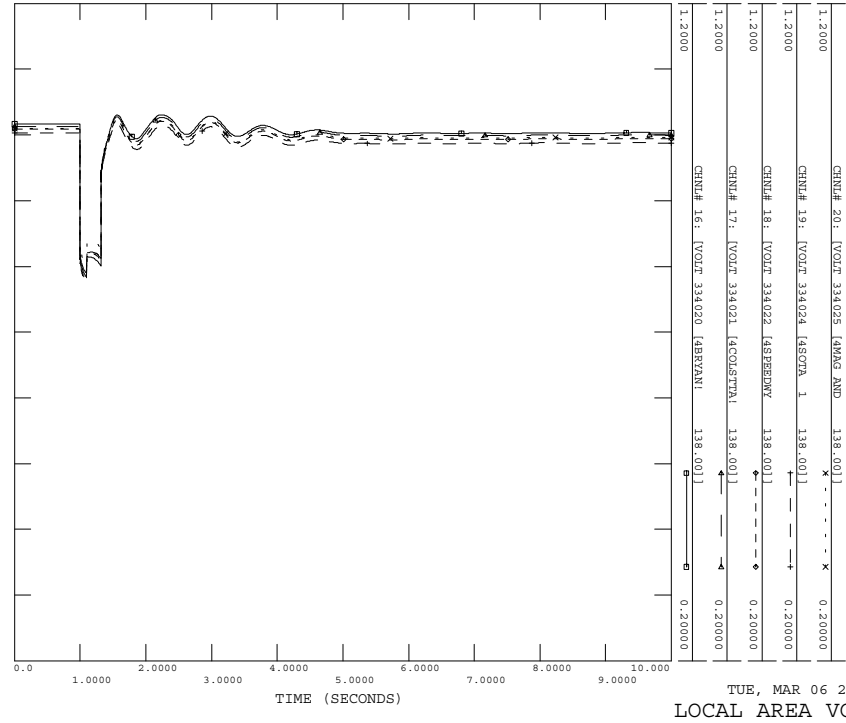




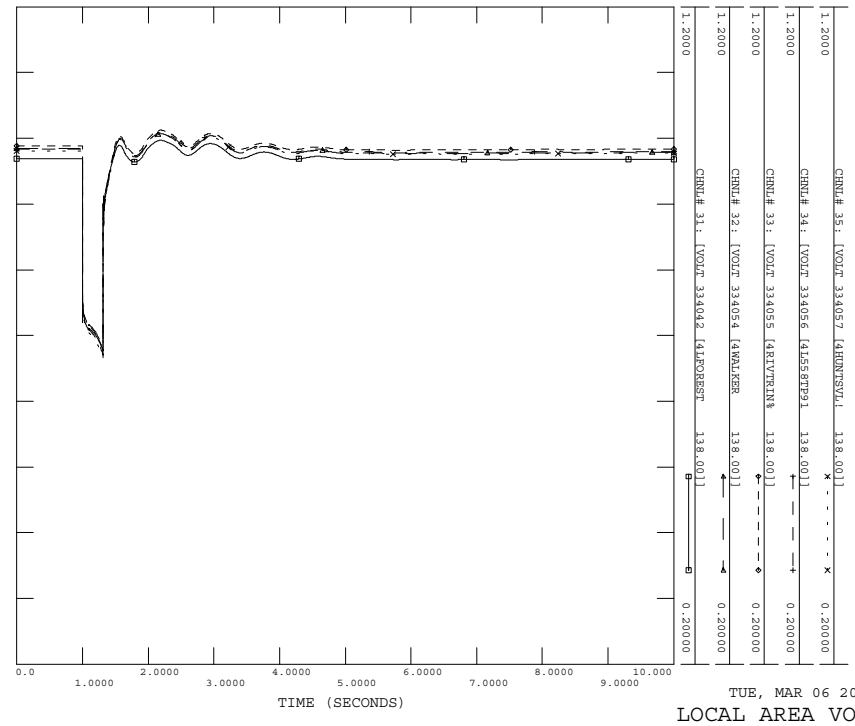
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



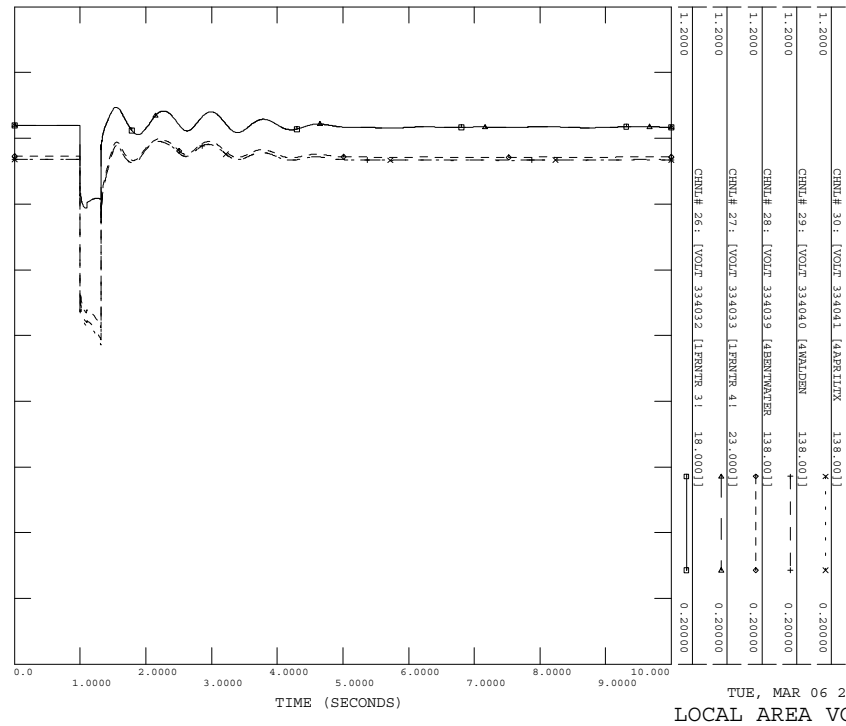
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



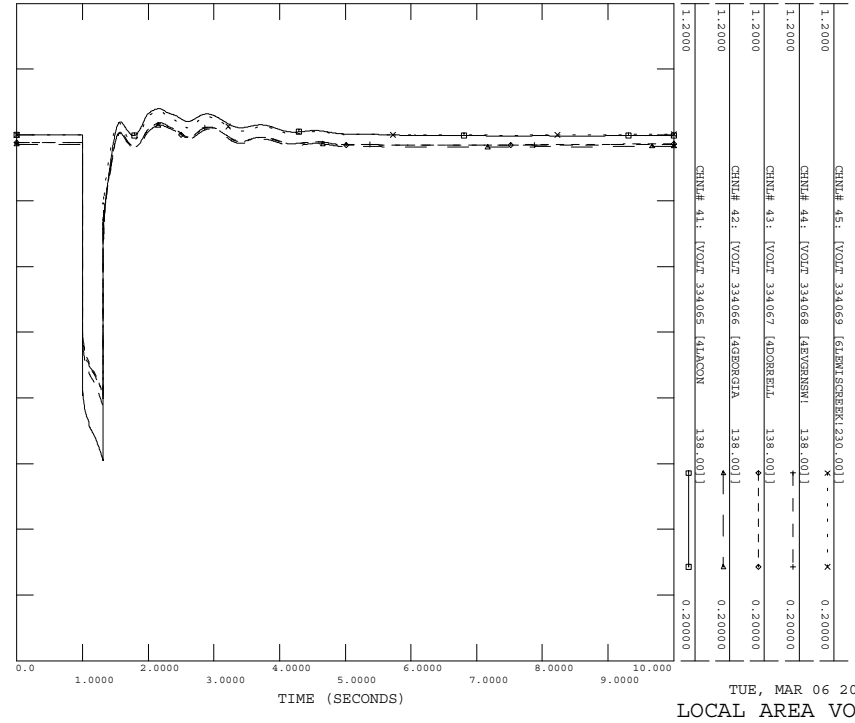
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



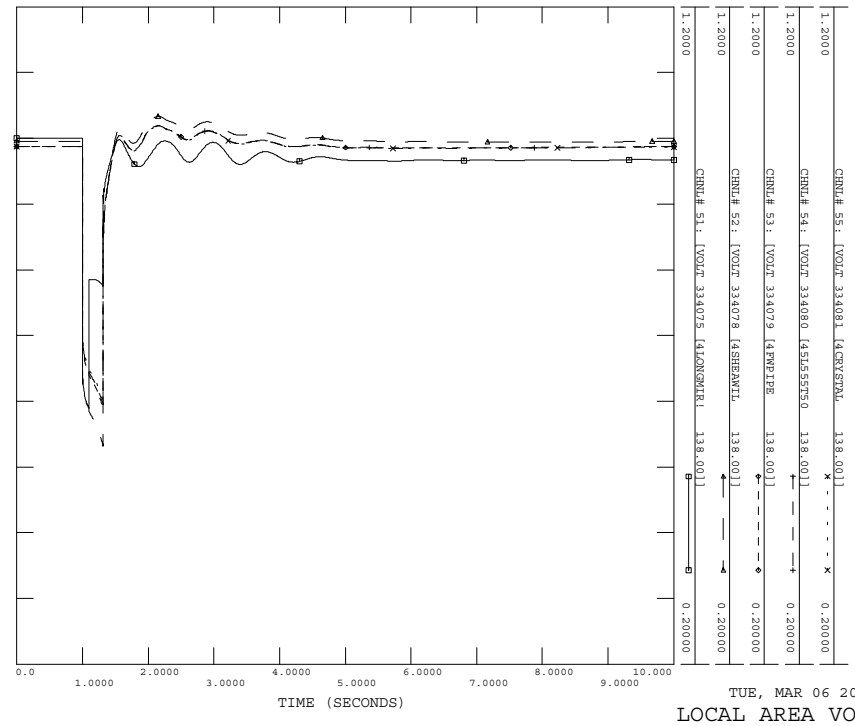
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



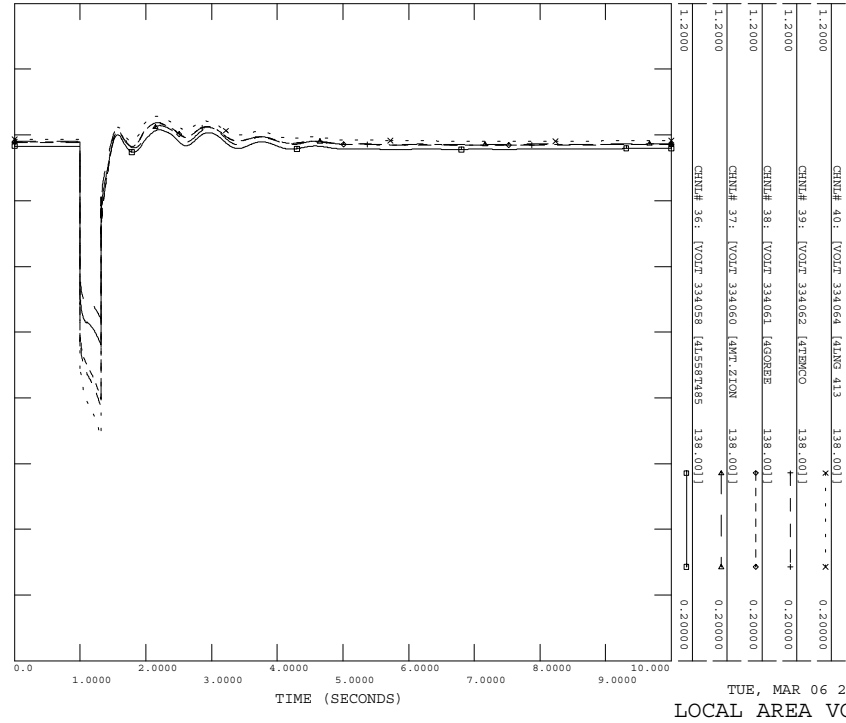
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



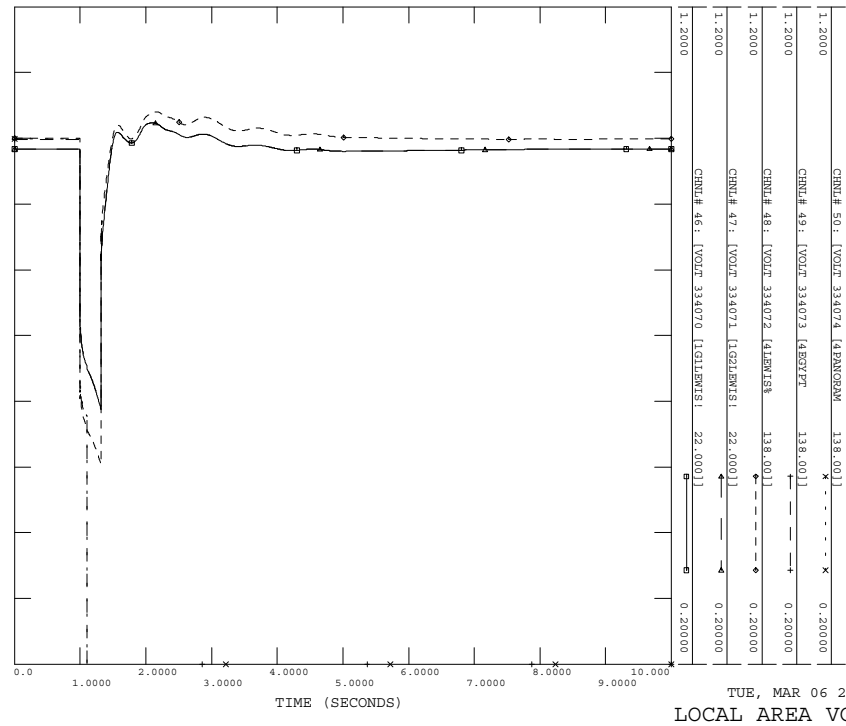
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



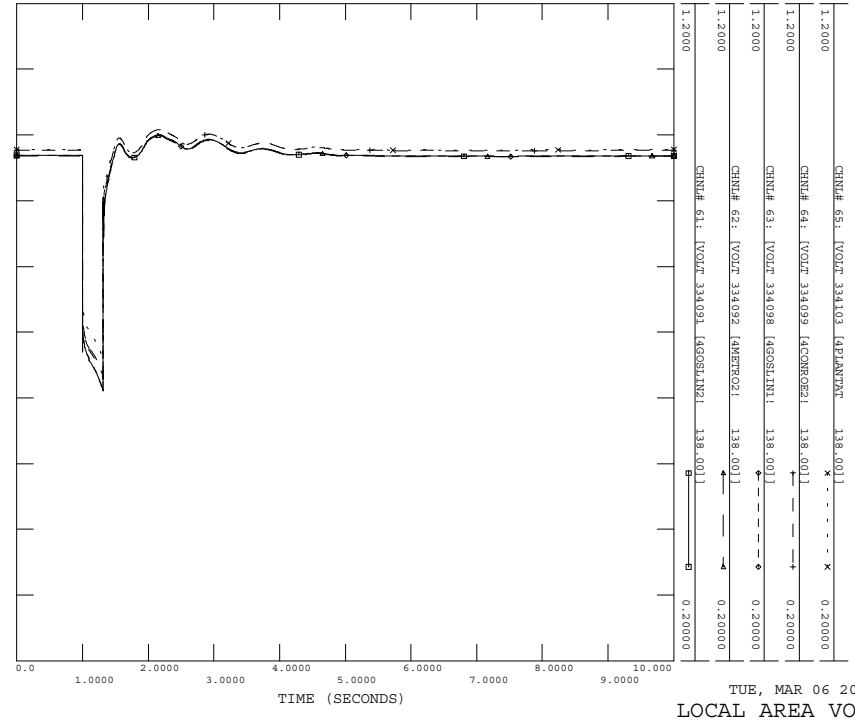
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



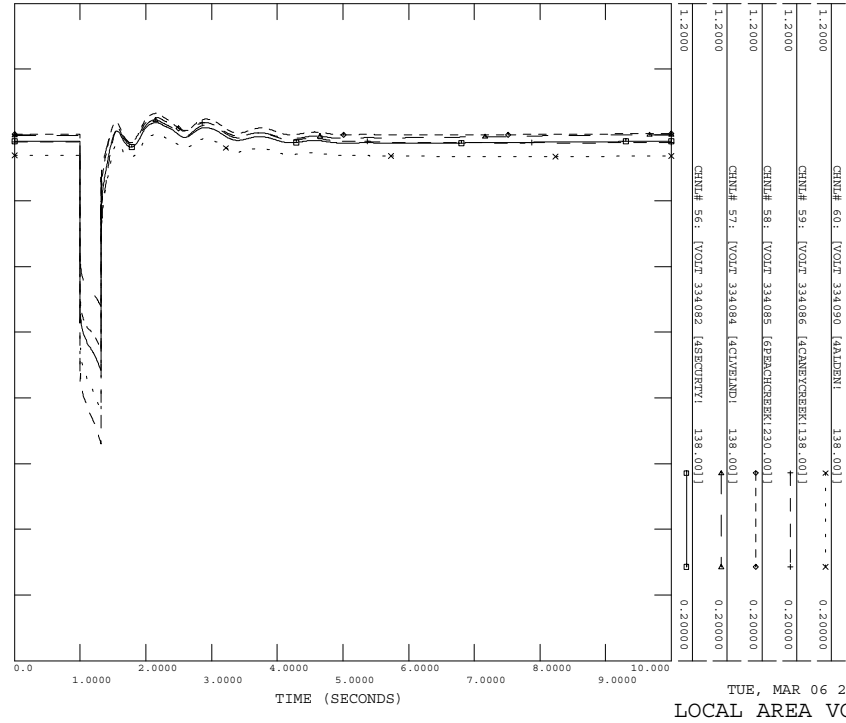
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



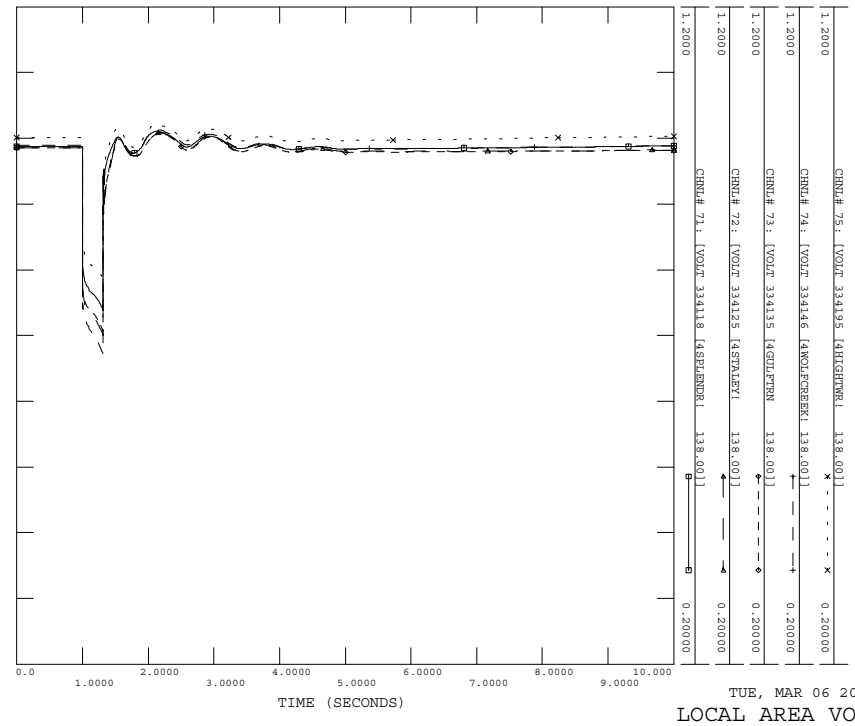
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



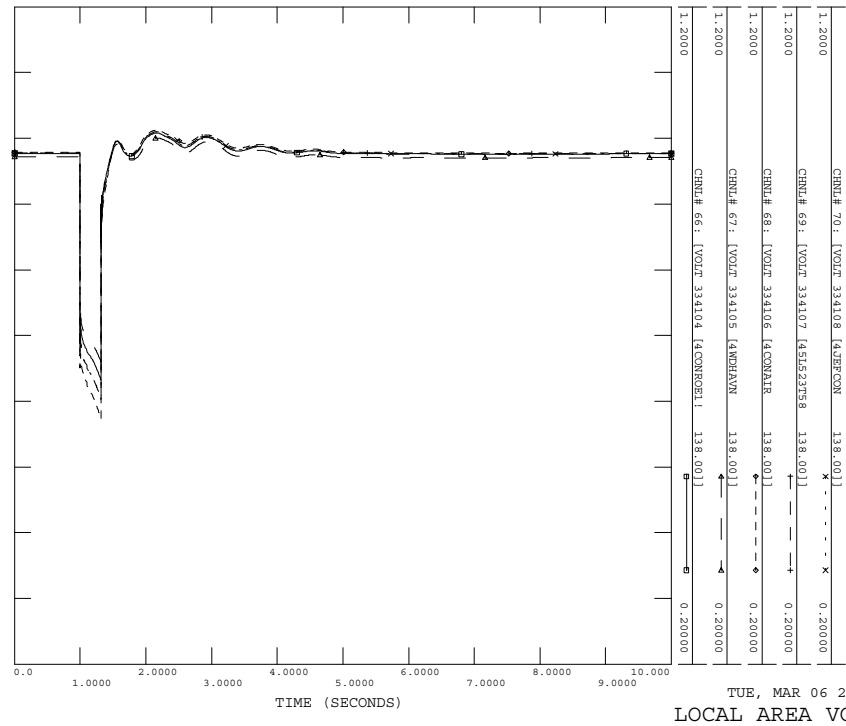
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



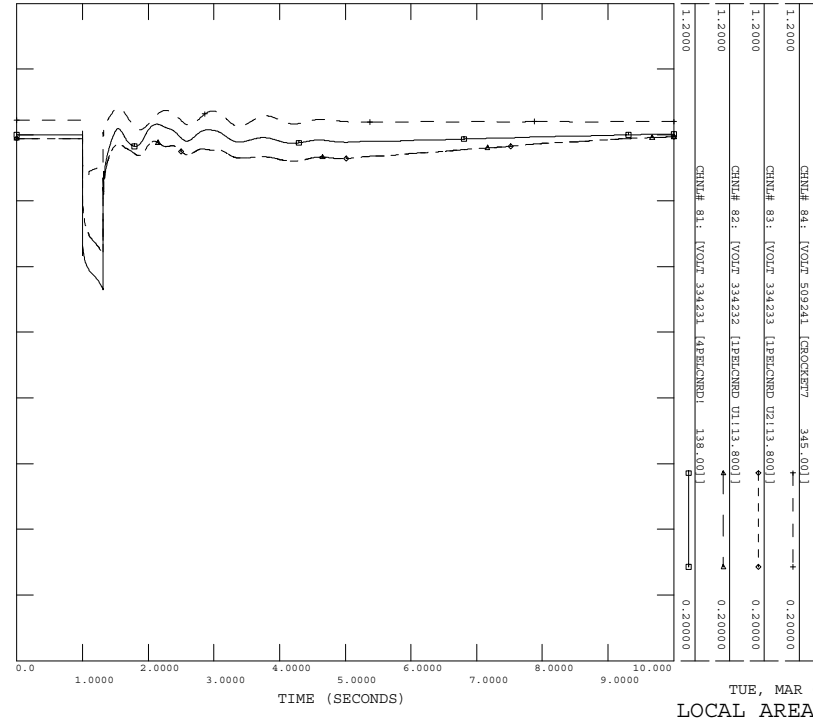
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



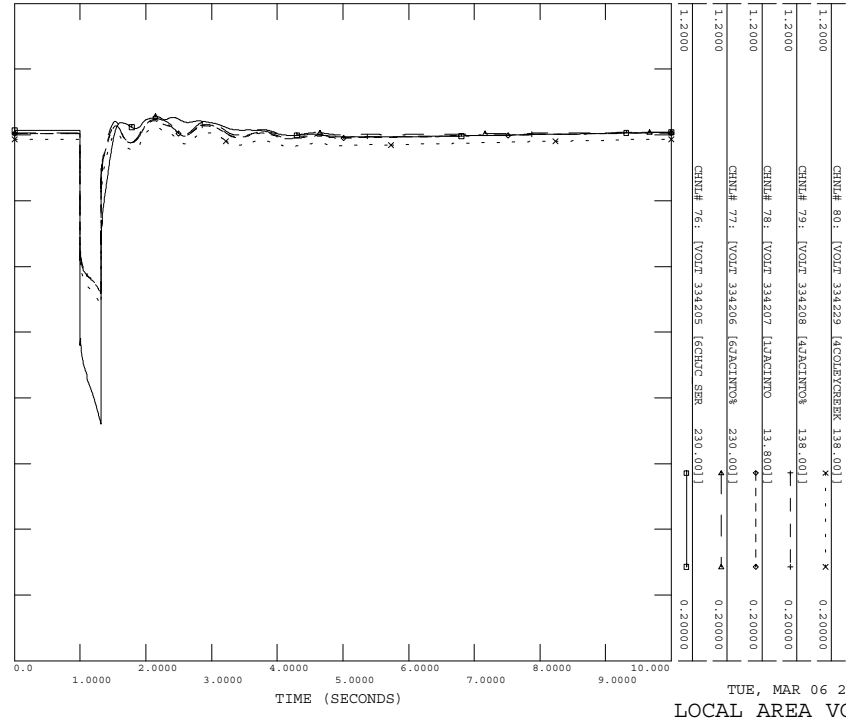
6+13CY SIG STOCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



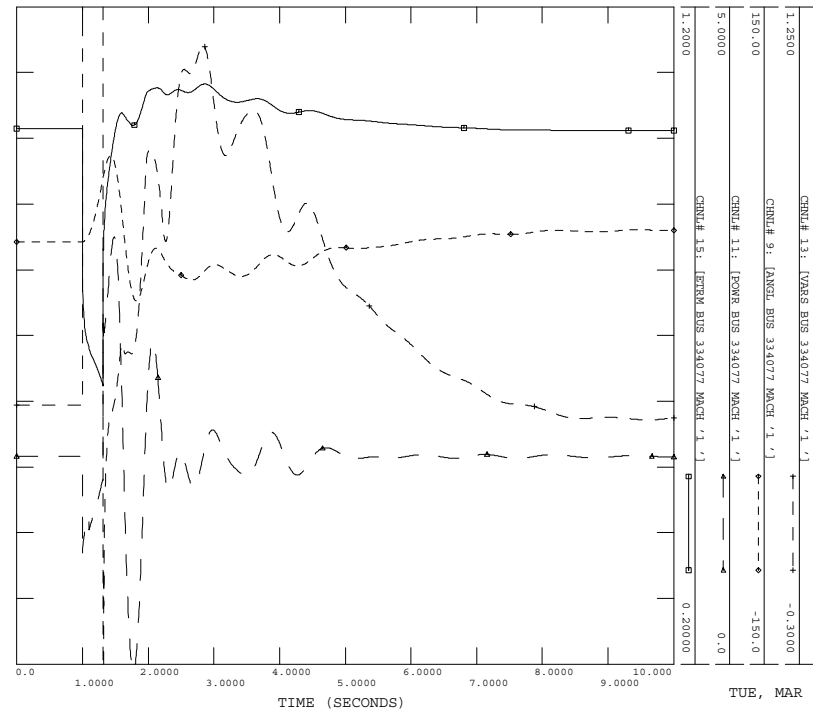
6+13CY SIG STUCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



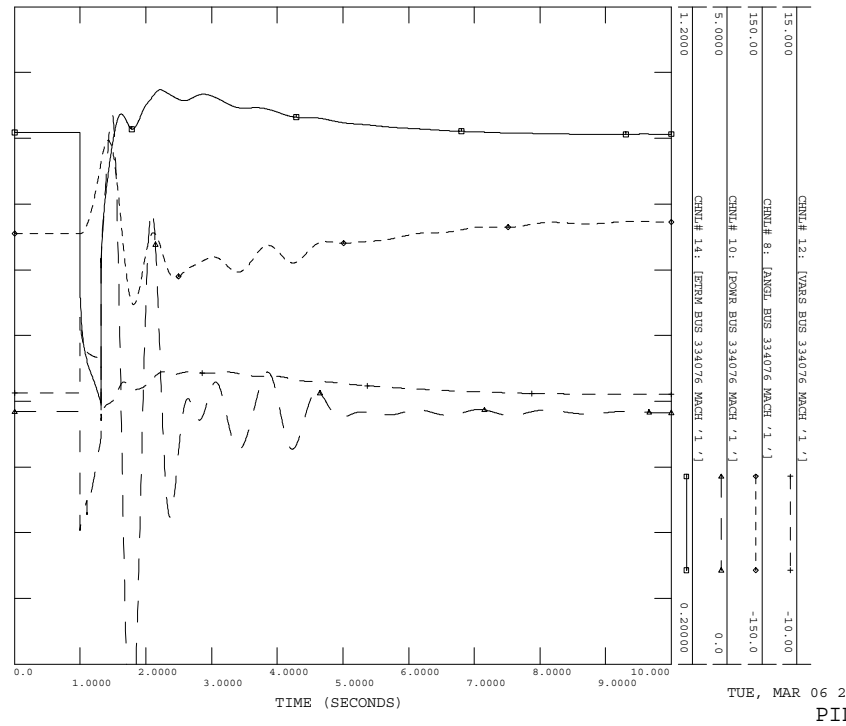
6+13CY SIG STUCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



6+13CY SIG STUCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT



6+13CY SIG STUCKERK LEWIS CREEK-LONGMIRE 138 KV  
 TRIP LEWIS CREEK-LONGMIRE 138 KV  
 FILE: Fault-1A.OUT

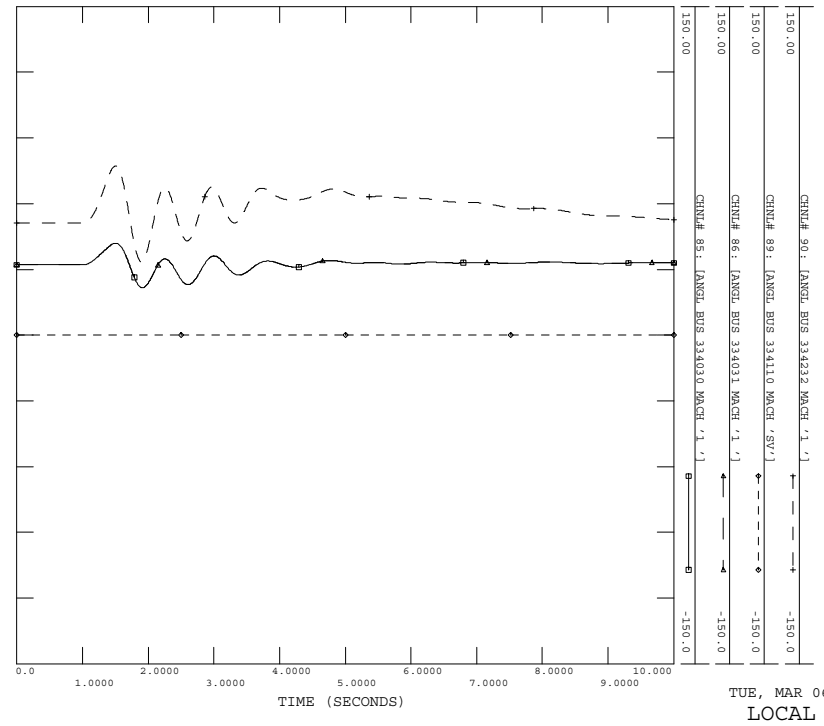


### **C.1.25 FAULT-2A**

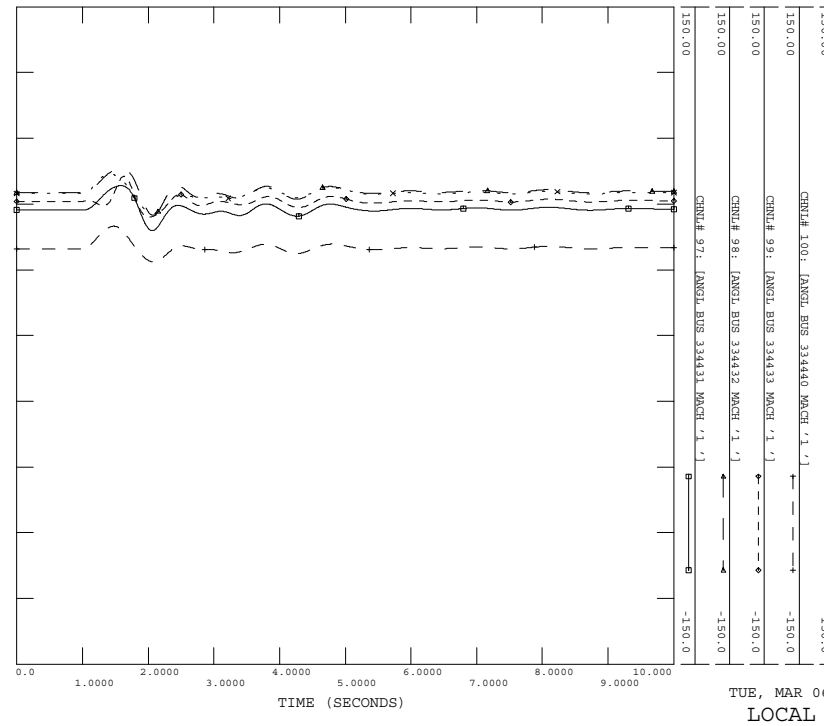
1 phase fault on the Lewis Creek-Alden 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek-Alden 138 kV
- c) Breaker (16585) Stuck at Lewis Creek
- d) Clear fault after 13 cycles by tripping the secondary breakers

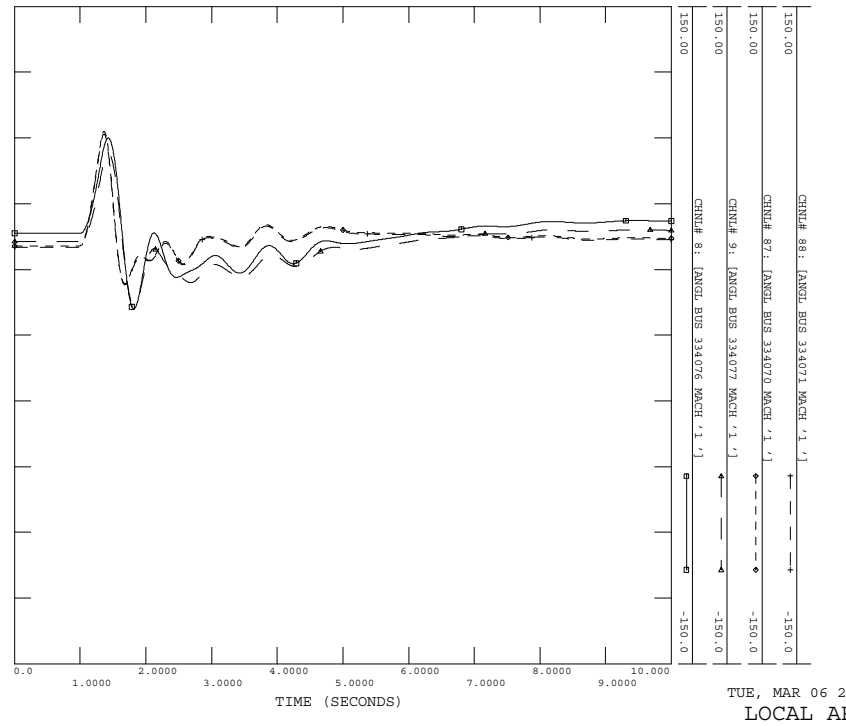
6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT



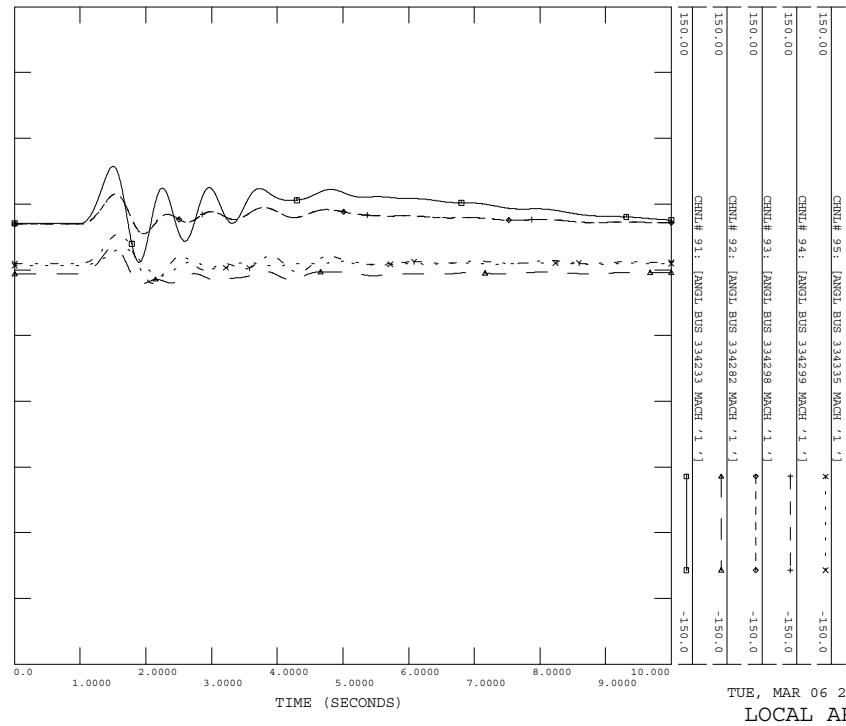
6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT



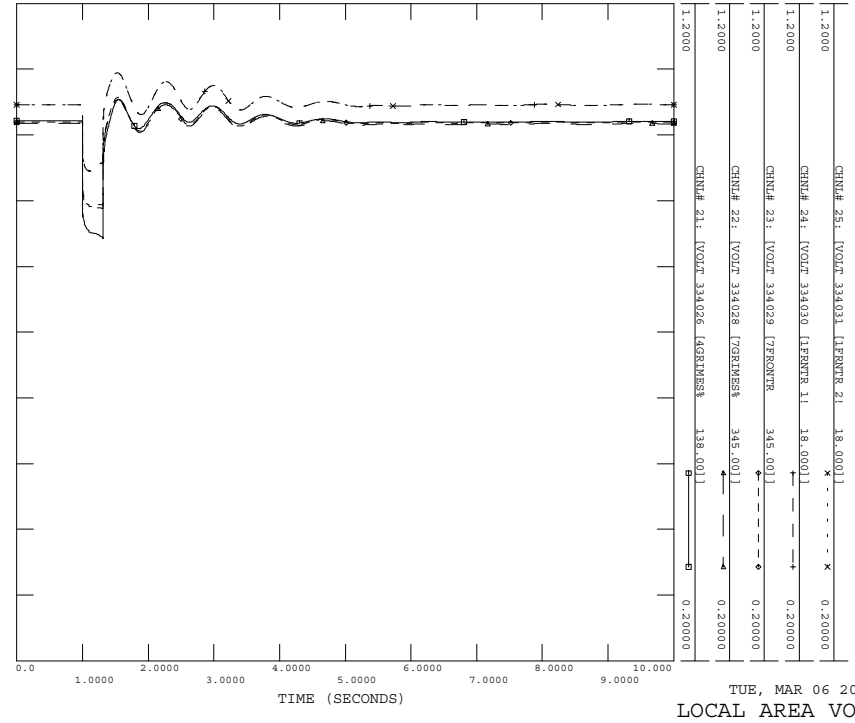
6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT



6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT

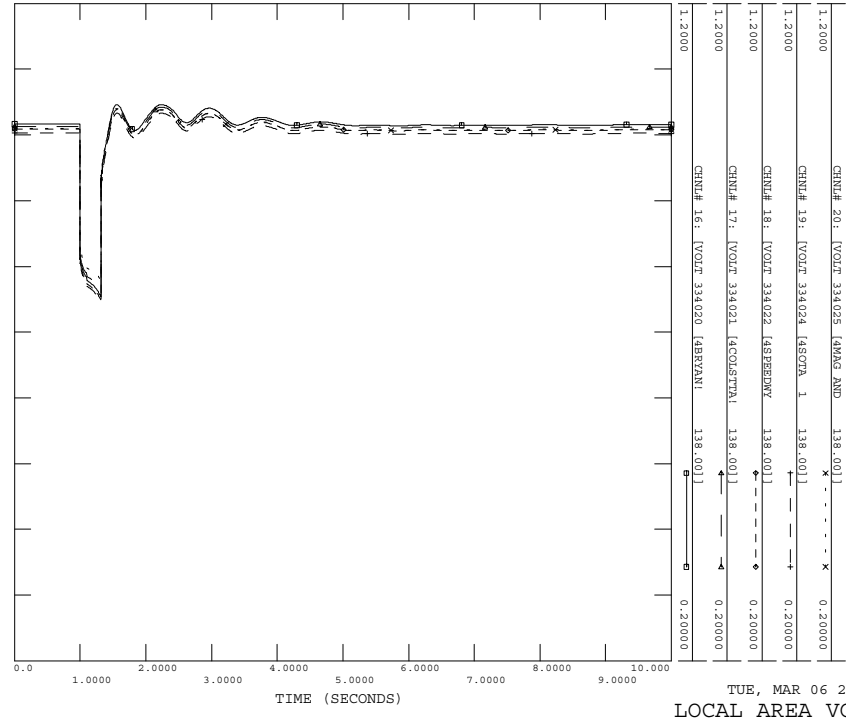


6+13CY SIG STOCKERK LEWIS CREEK-ALDEN 138 KV  
TRIP LEWIS CREEK-ALDEN 138 KV  
FILE: Fault-2A.OUT



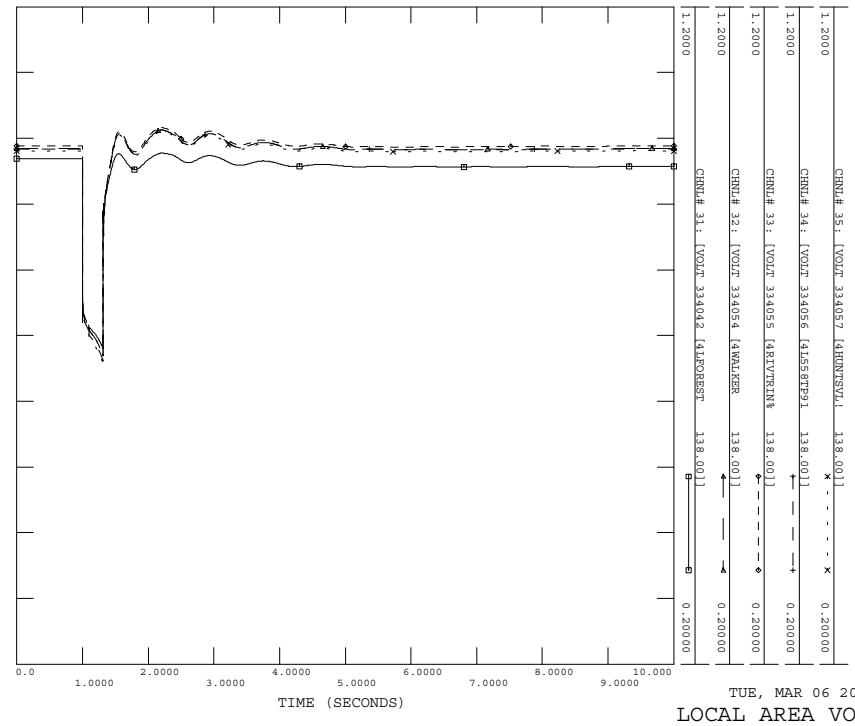
TUE, MAR 06 2012 11:02  
LOCAL AREA VOLTAGES

6+13CY SIG STOCKERK LEWIS CREEK-ALDEN 138 KV  
TRIP LEWIS CREEK-ALDEN 138 KV  
FILE: Fault-2A.OUT



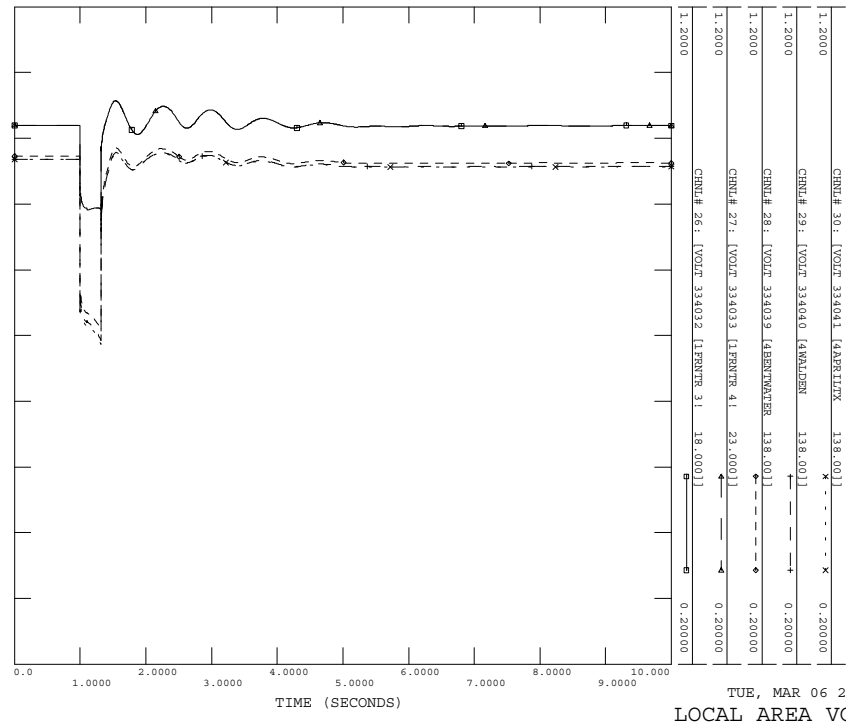
TUE, MAR 06 2012 11:02  
LOCAL AREA VOLTAGES

6+13CY SIG STOCKERK LEWIS CREEK-ALDEN 138 KV  
TRIP LEWIS CREEK-ALDEN 138 KV  
FILE: Fault-2A.OUT



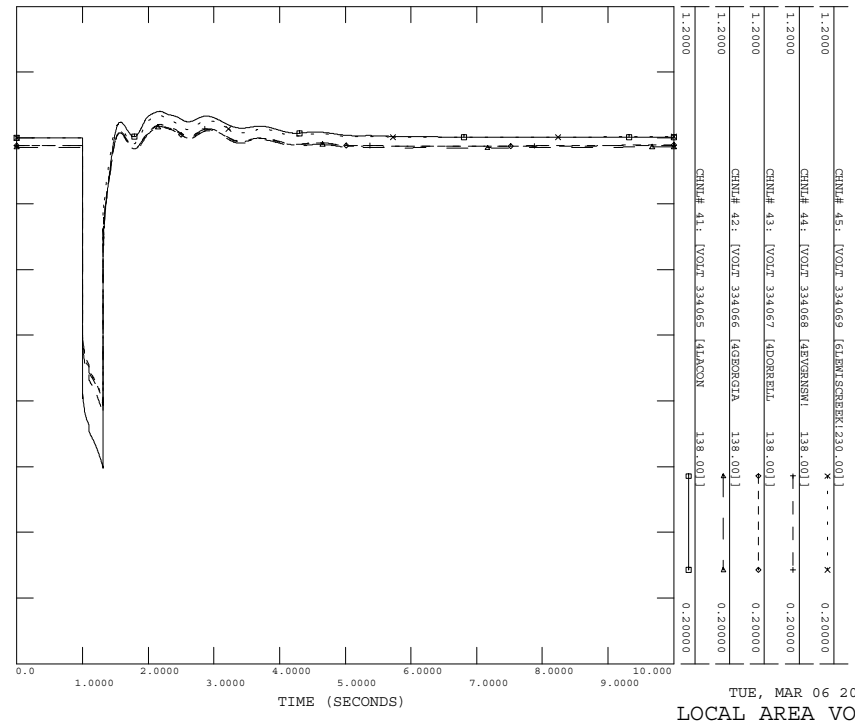
TUE, MAR 06 2012 11:02  
LOCAL AREA VOLTAGES

6+13CY SIG STOCKERK LEWIS CREEK-ALDEN 138 KV  
TRIP LEWIS CREEK-ALDEN 138 KV  
FILE: Fault-2A.OUT

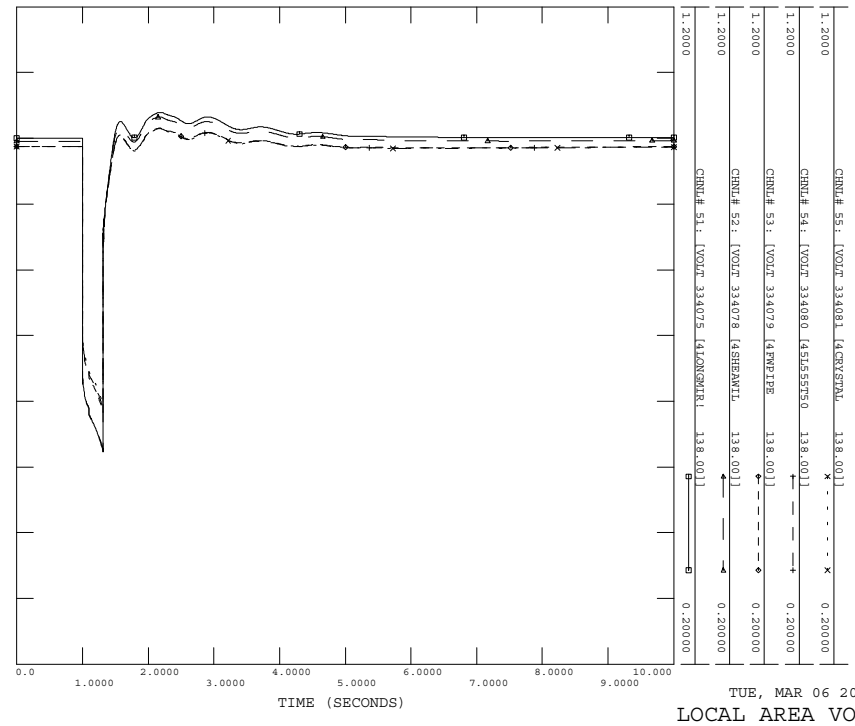


TUE, MAR 06 2012 11:02  
LOCAL AREA VOLTAGES

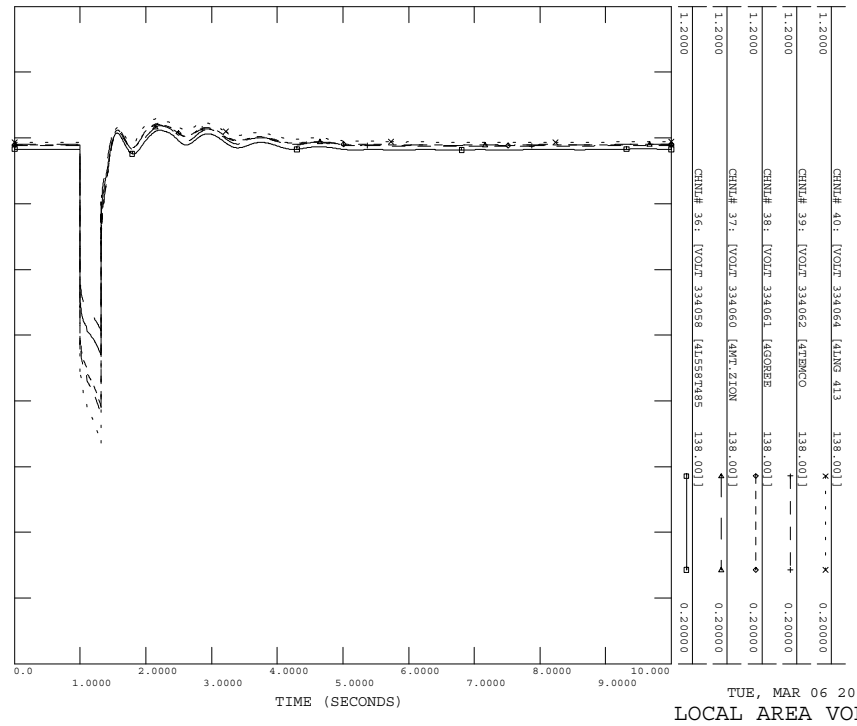
6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT



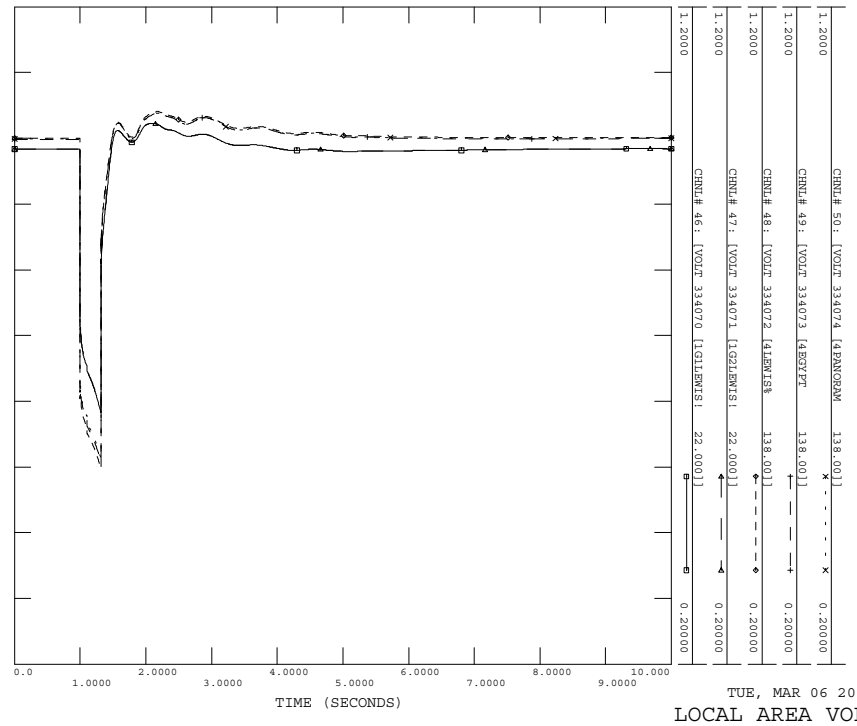
6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT



6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT

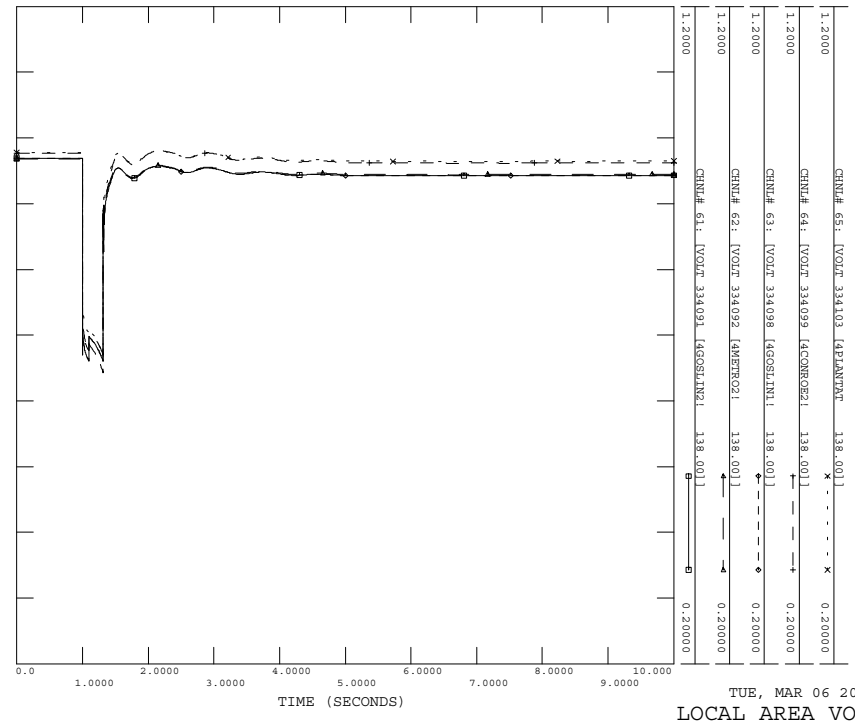


6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT

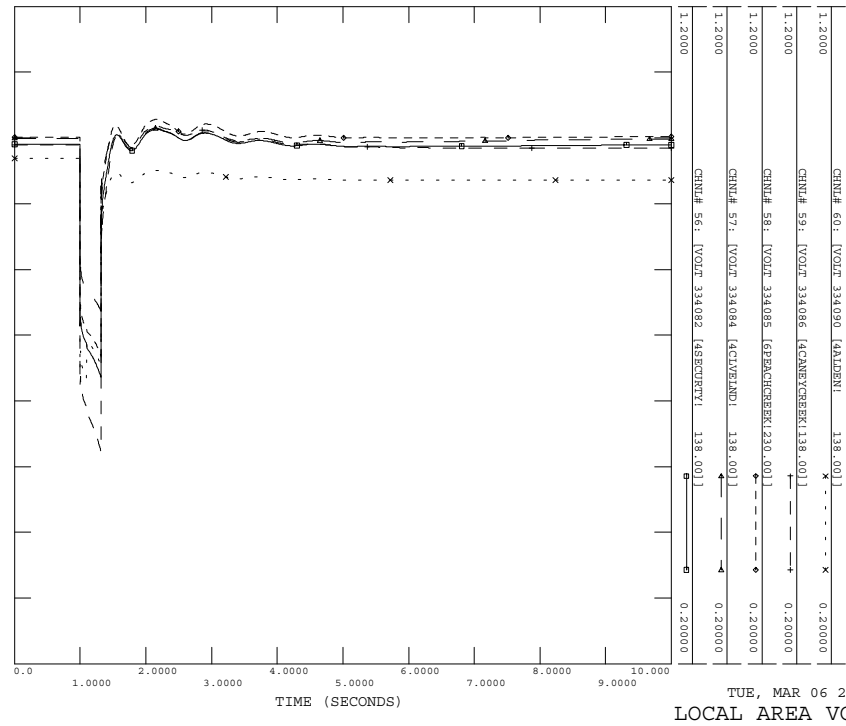




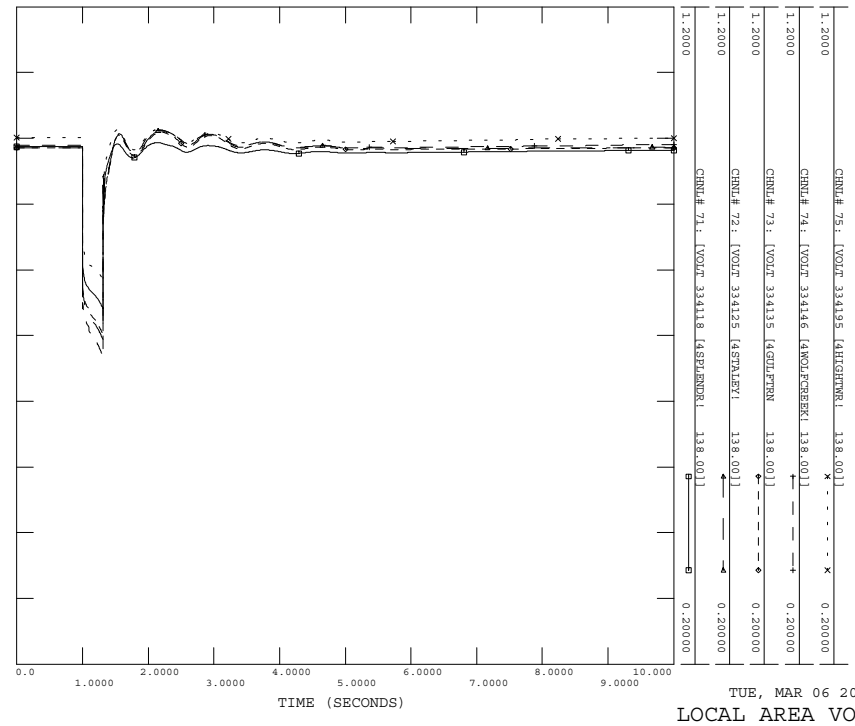
6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT



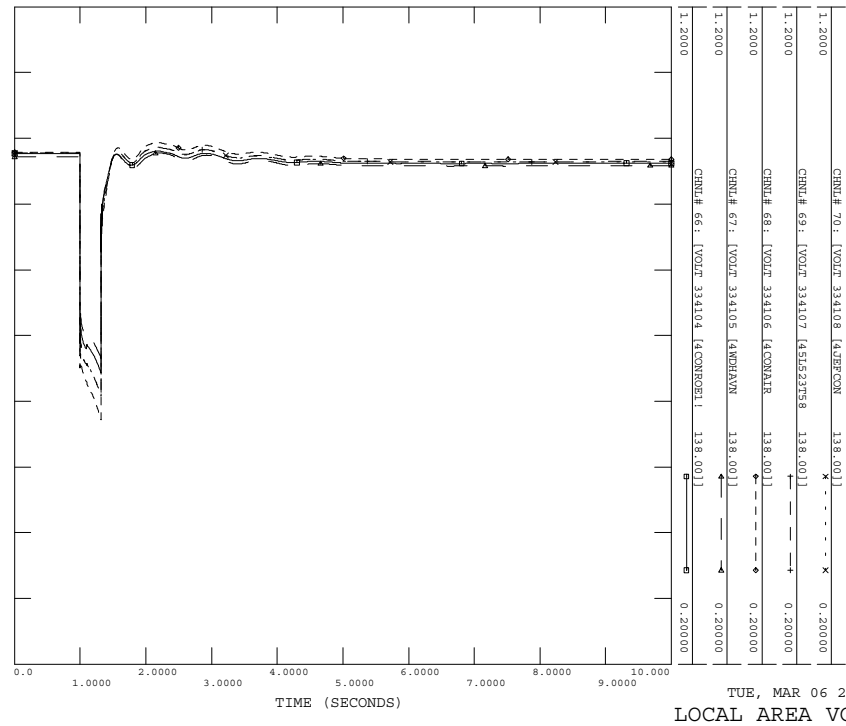
6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT



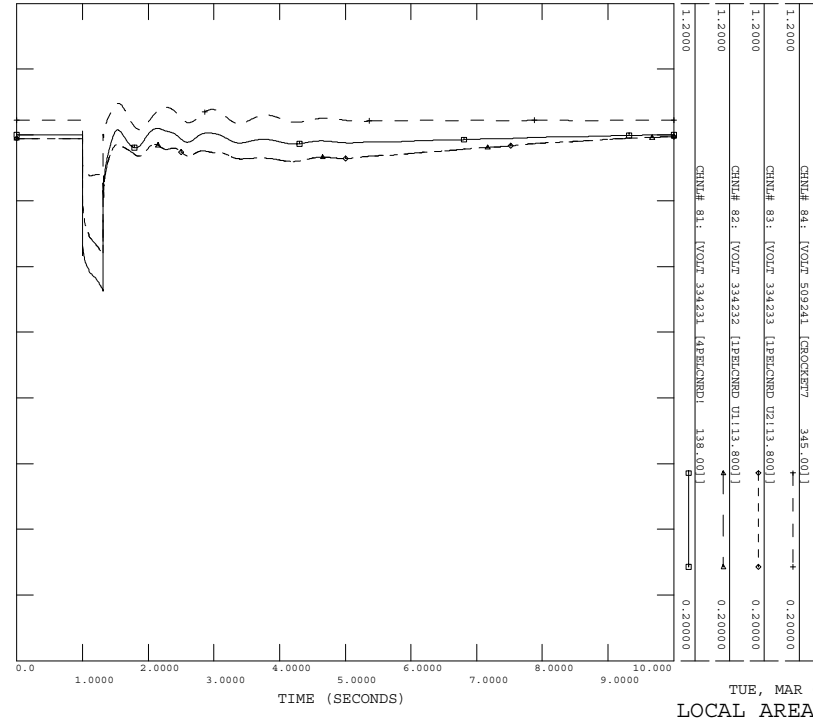
6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT



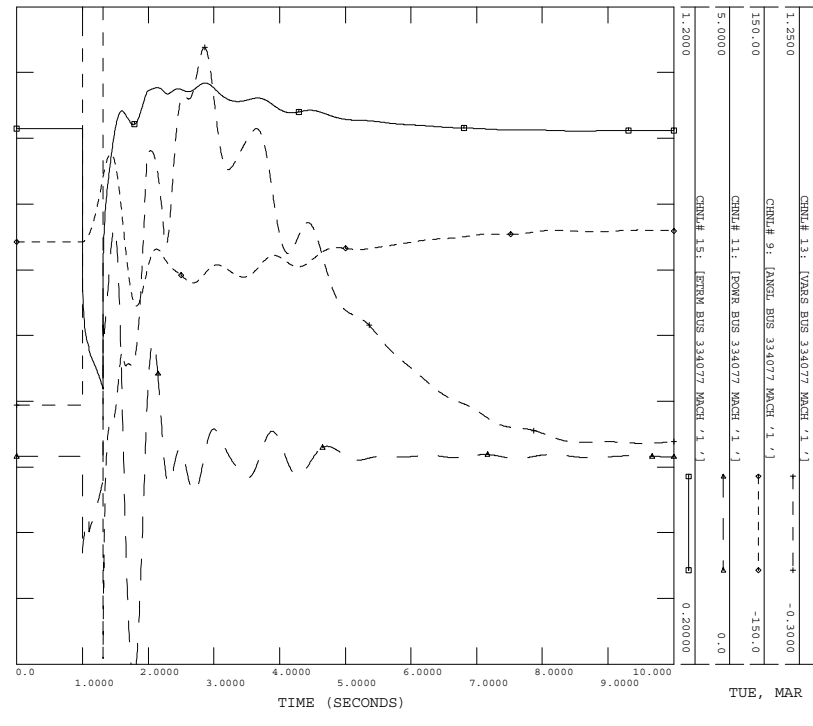
6+13CY SIG STOCKERK LEWIS CREEK-AIDEN 138 KV  
 TRIP LEWIS CREEK-AIDEN 138 KV  
 FILE: Fault-2A.OUT



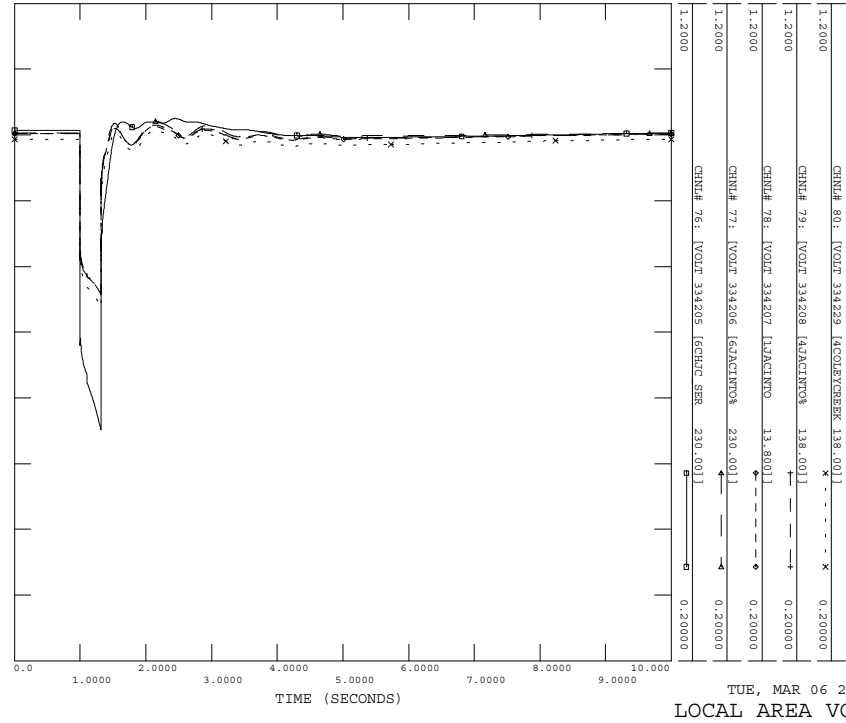
6+13CY SIG STUCKERK LEWIS CREEK-ALDEN 138 KV  
TRIP LEWIS CREEK-ALDEN 138 KV  
FILE: Fault-2A.OUT



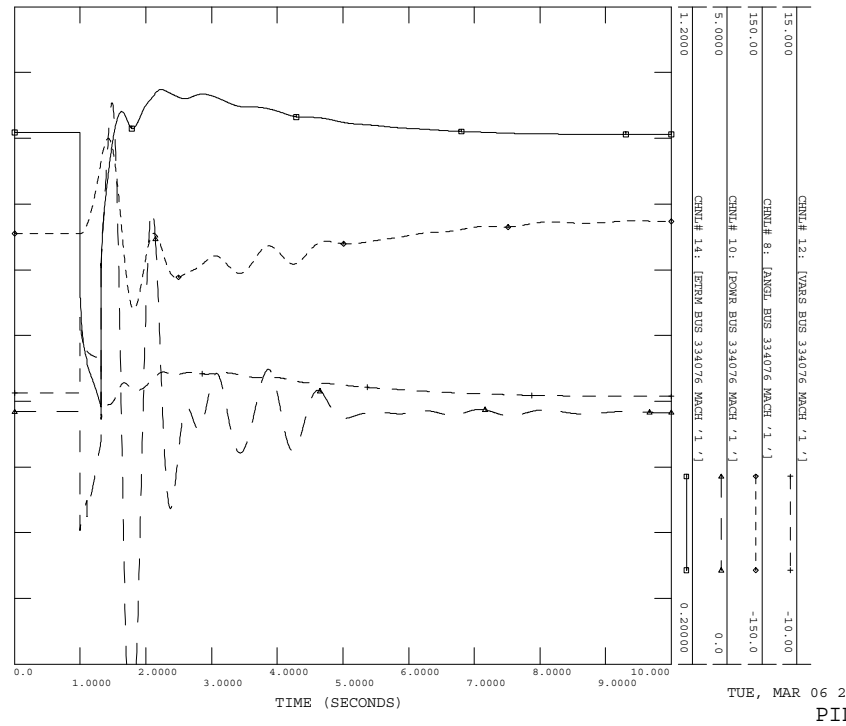
6+13CY SIG STUCKERK LEWIS CREEK-ALDEN 138 KV  
TRIP LEWIS CREEK-ALDEN 138 KV  
FILE: Fault-2A.OUT



6+13CY SIG STUCKERK LEWIS CREEK-ALDEN 138 KV  
TRIP LEWIS CREEK-ALDEN 138 KV  
FILE: Fault-2A.OUT



6+13CY SIG STUCKERK LEWIS CREEK-ALDEN 138 KV  
TRIP LEWIS CREEK-ALDEN 138 KV  
FILE: Fault-2A.OUT

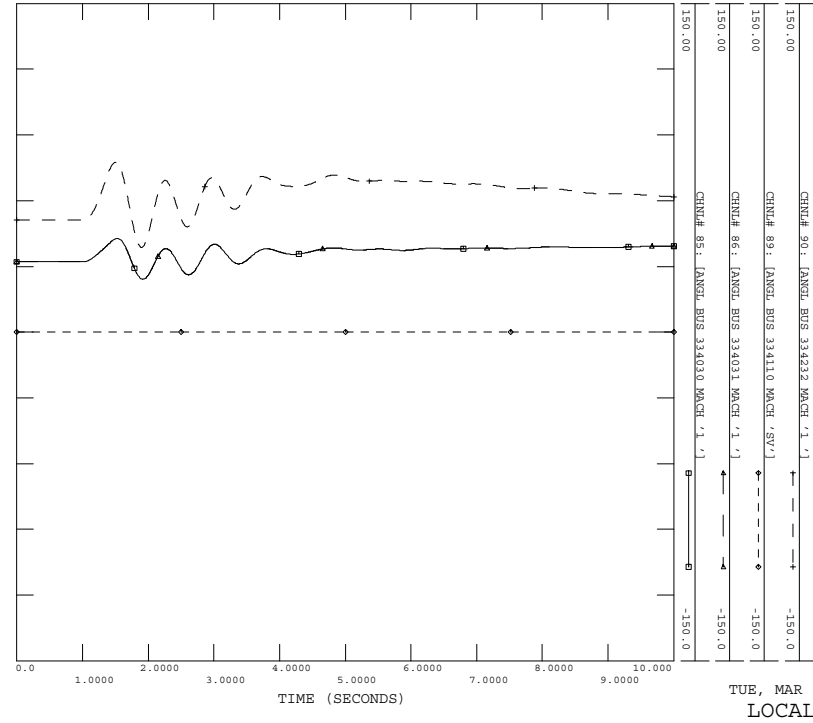


### **C.1.26 FAULT-3A**

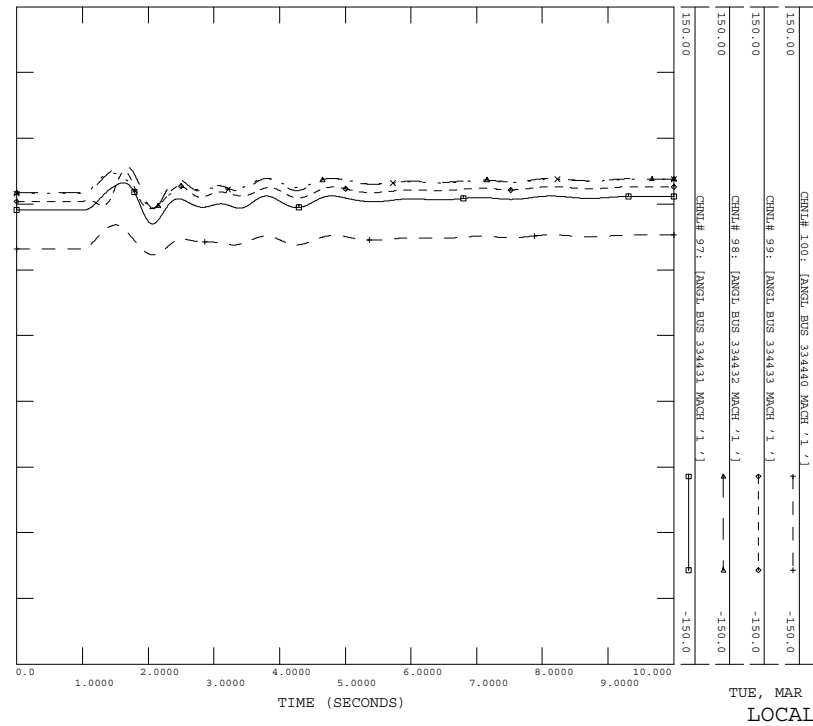
1 phase fault on the Lewis Creek-Conroe Bulk 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek-Conroe Bulk 138 kV
- c) Breaker (1655) Stuck at Lewis Creek
- d) Clear fault after 13 cycles by tripping the Lewis Creek-Security 138kV

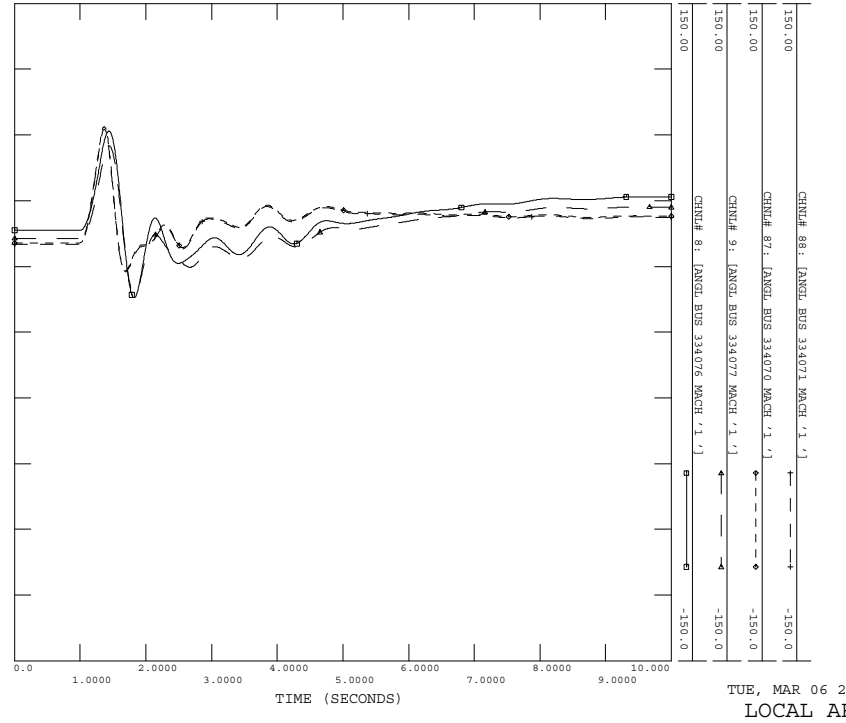
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK,LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



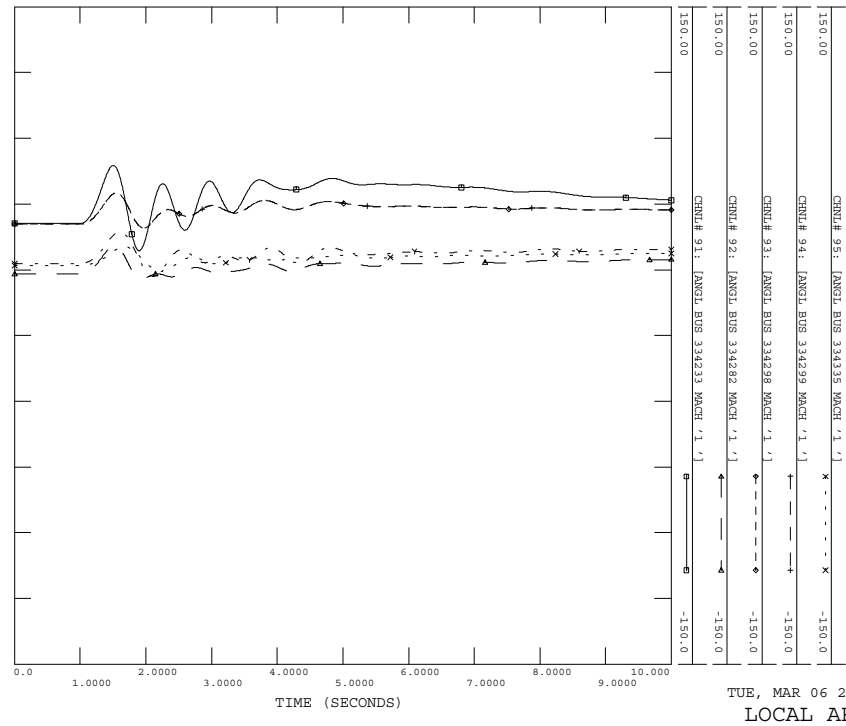
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK,LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



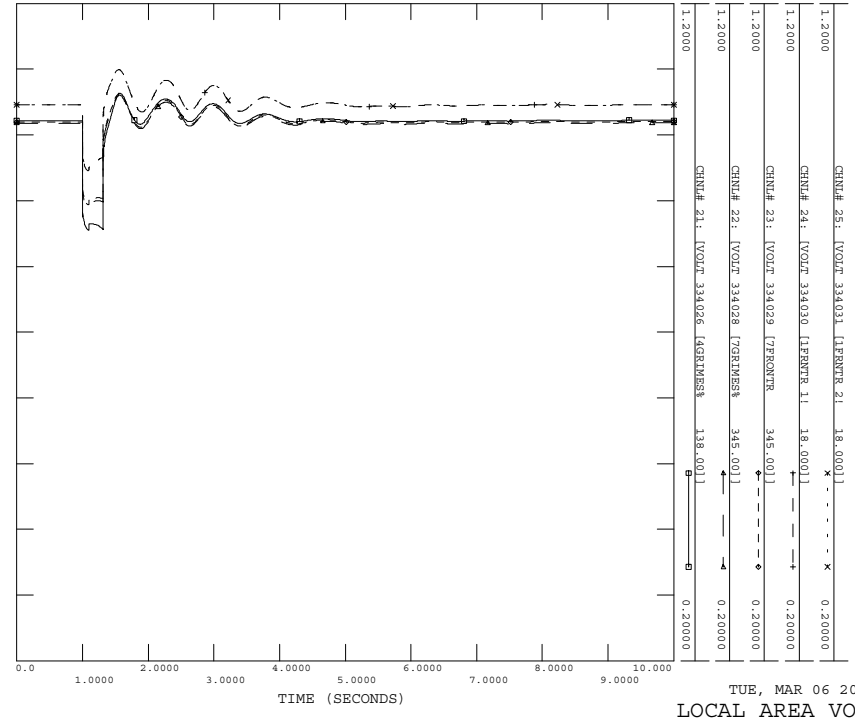
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK,LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



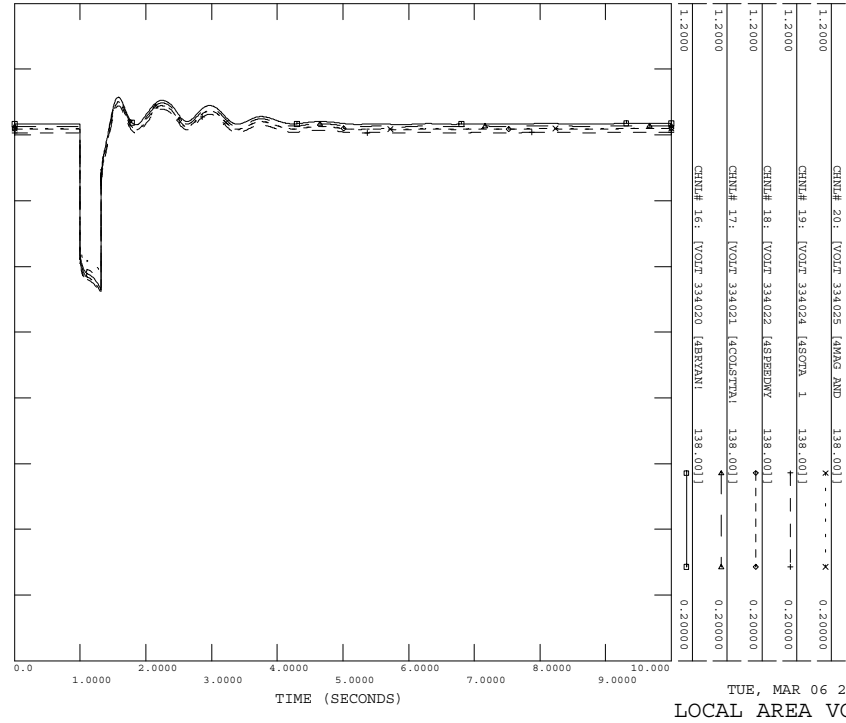
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK,LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



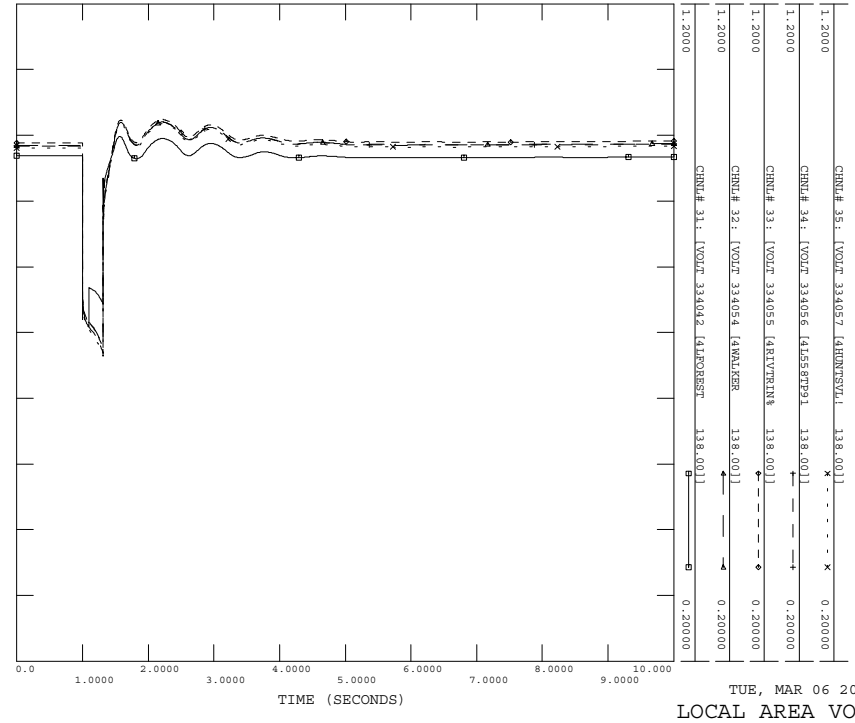
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



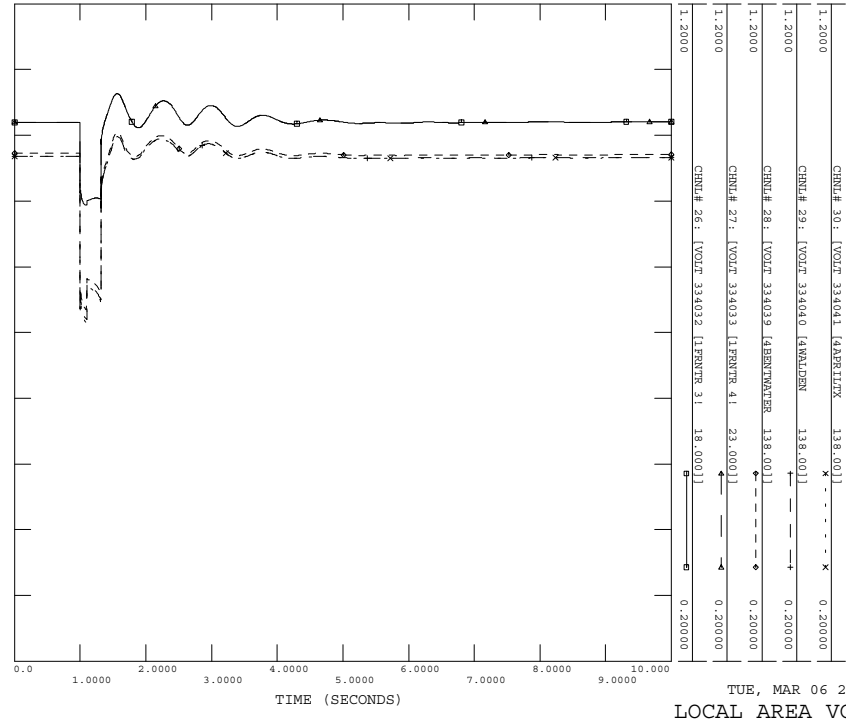
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



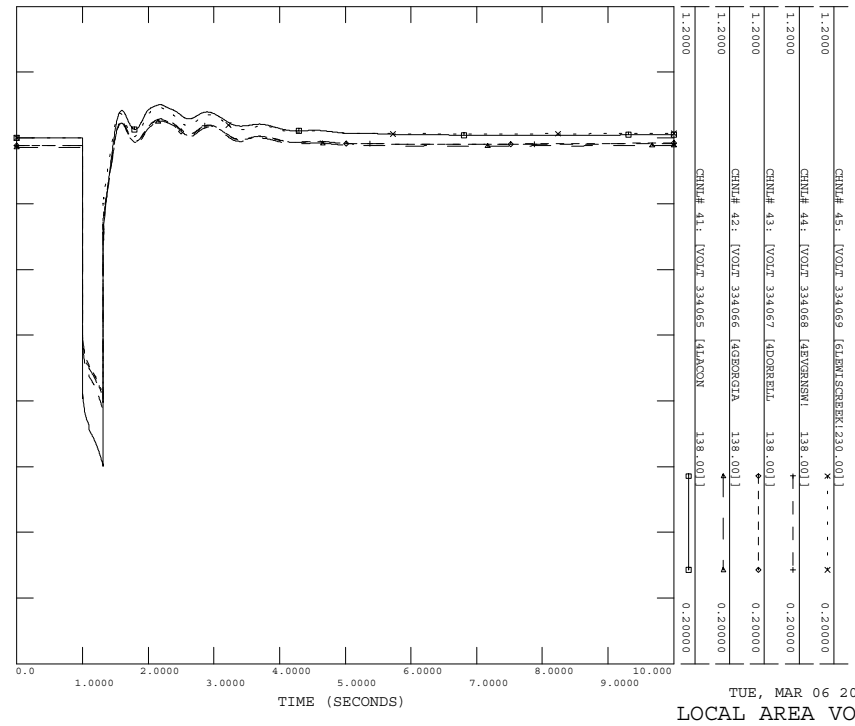
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



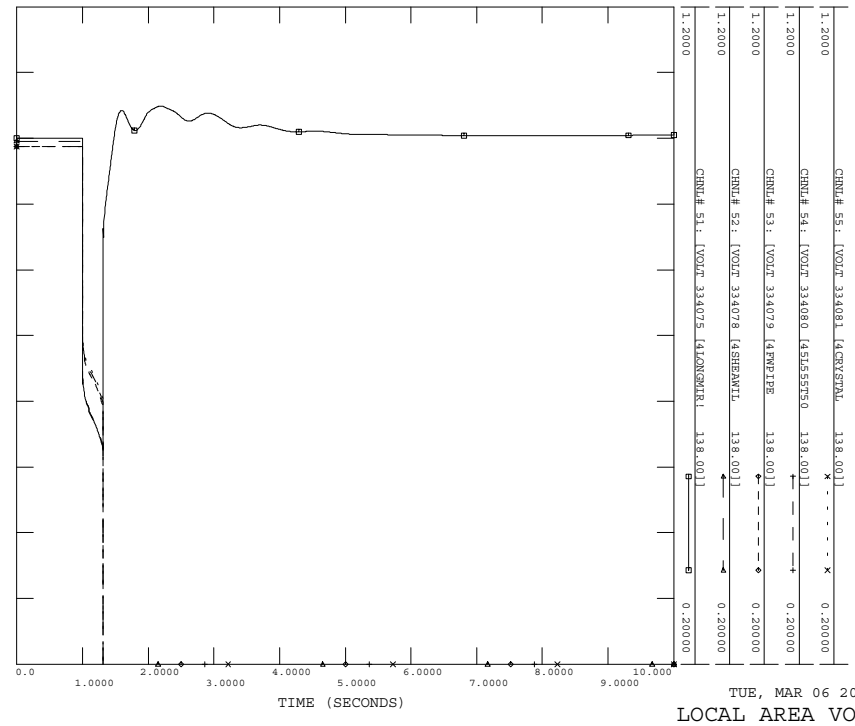
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



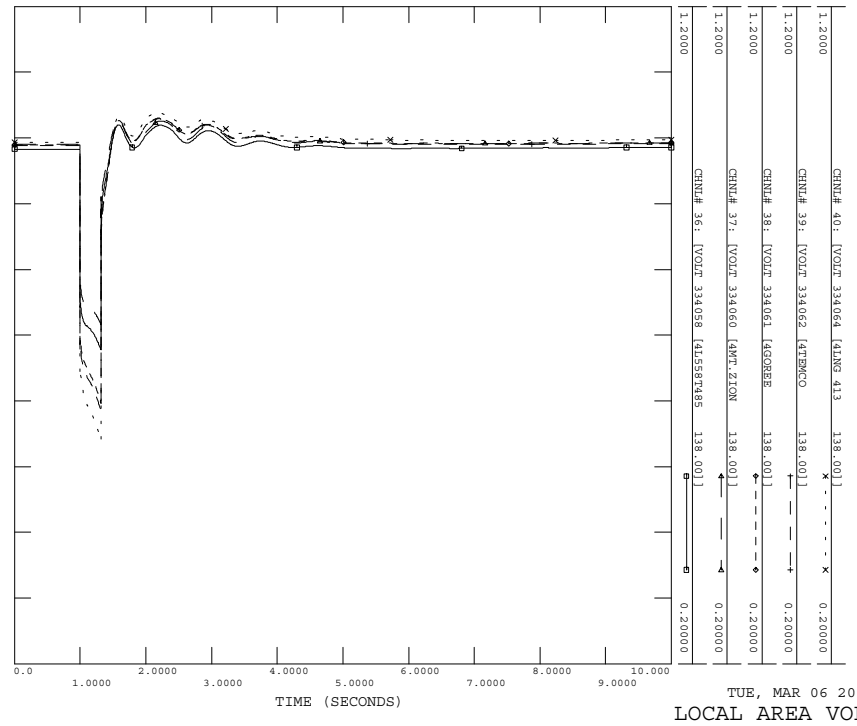
6+13CY SIG STOCKBRK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



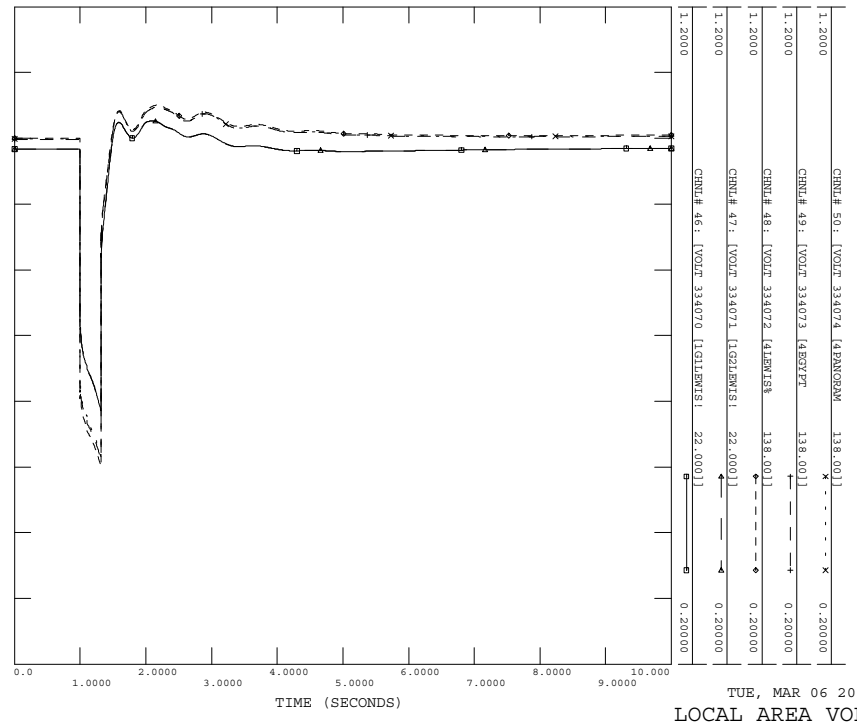
6+13CY SIG STOCKBRK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



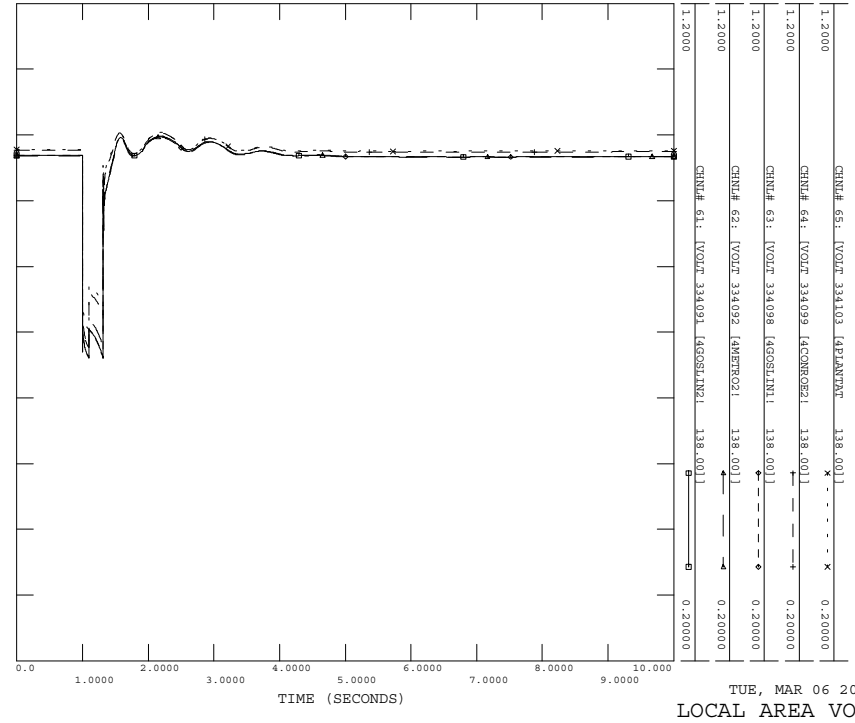
6+13CY SIG STOCKBRK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



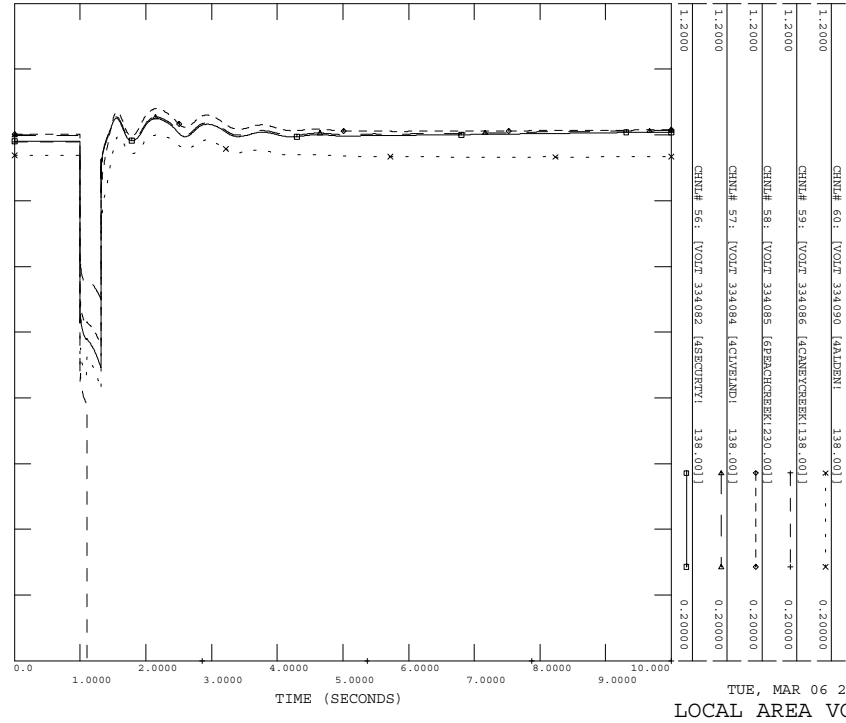
6+13CY SIG STOCKBRK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



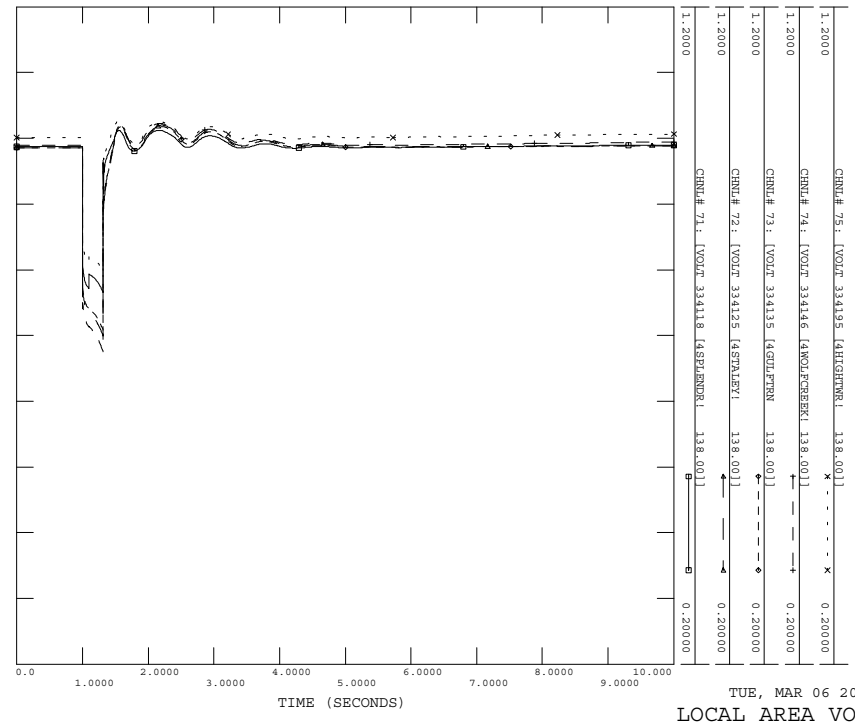
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



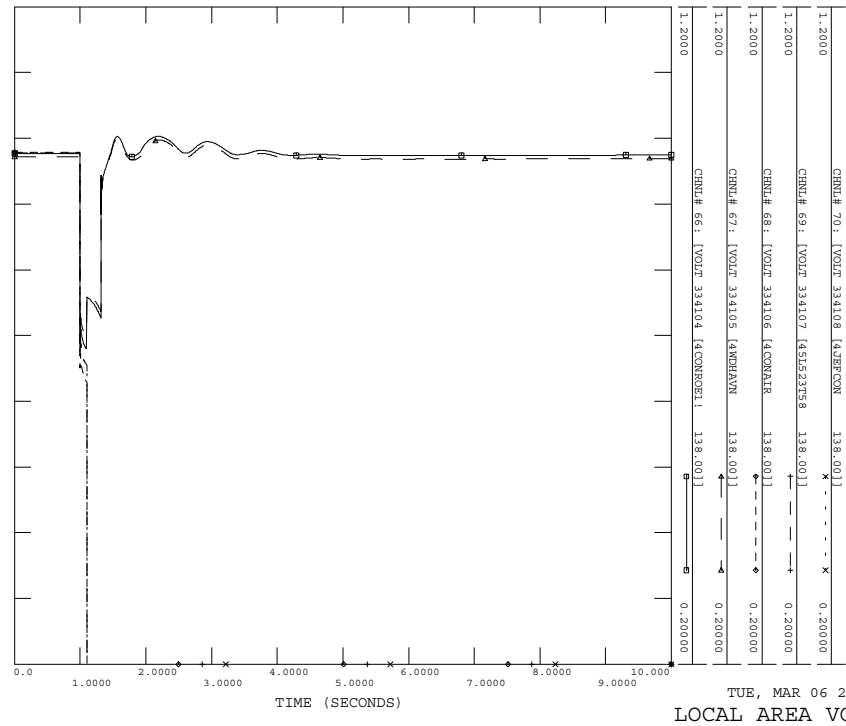
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



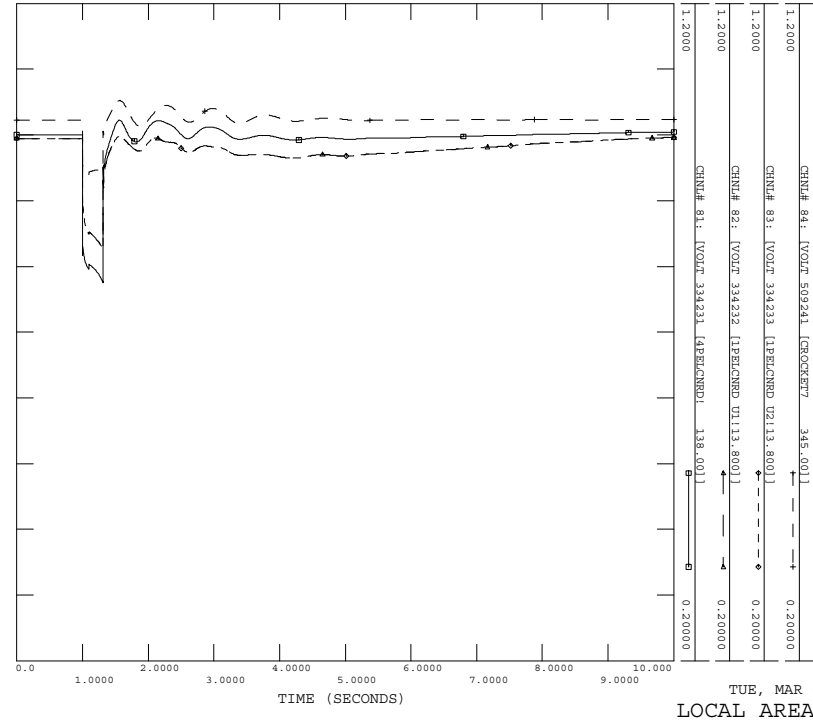
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



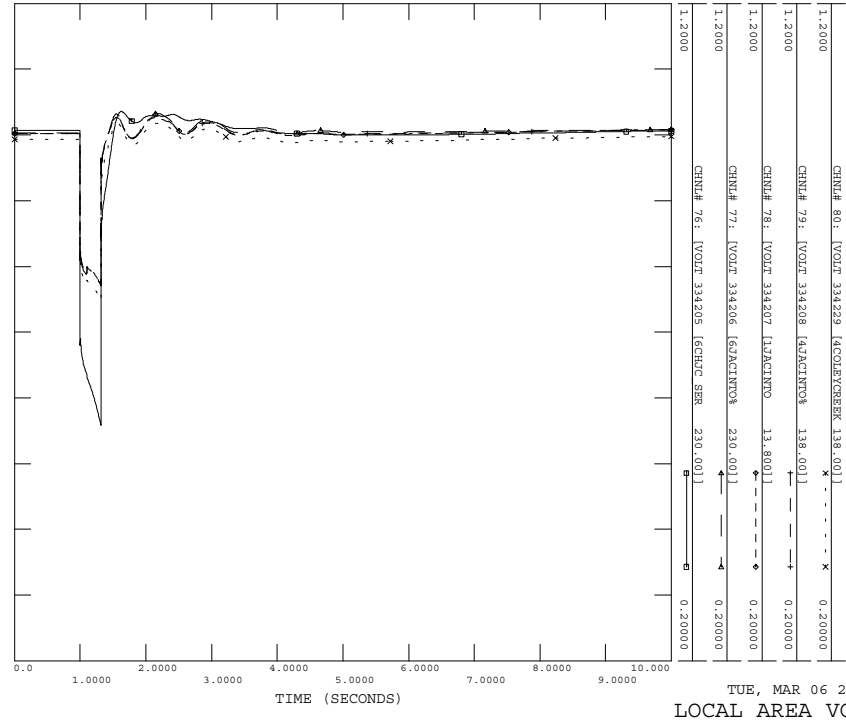
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



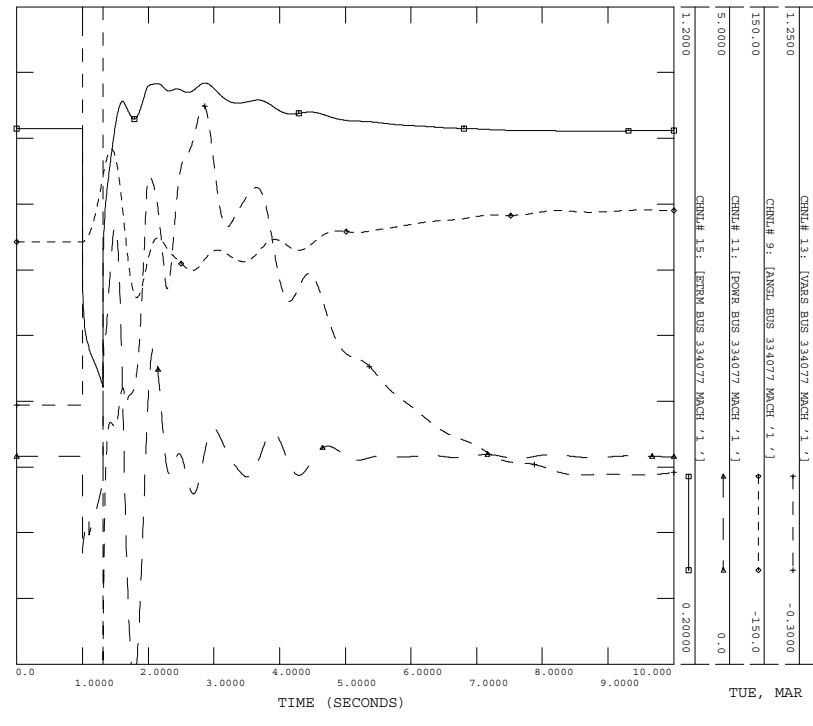
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



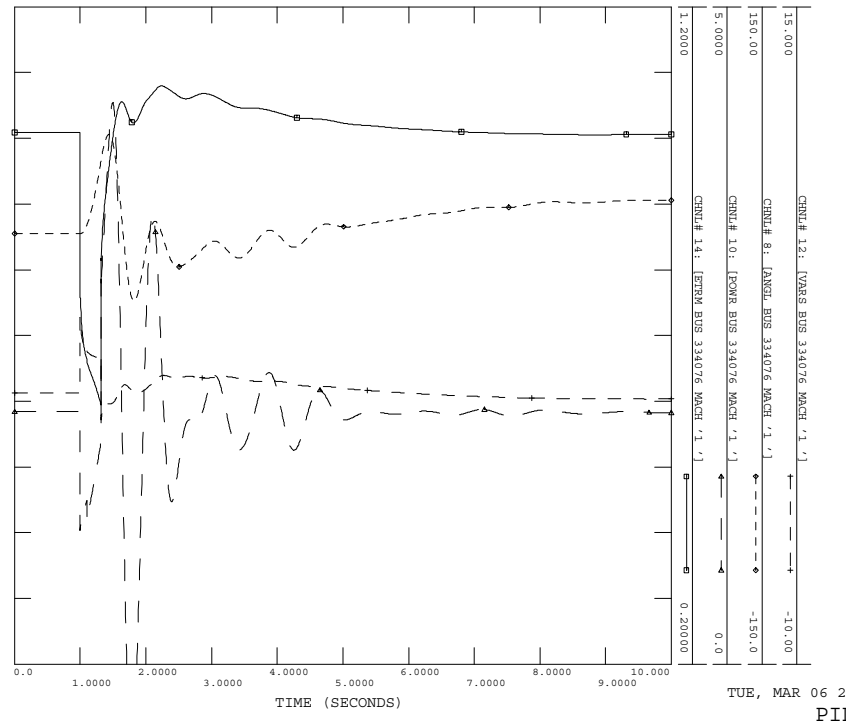
6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



6+13CY SIG STUCKERK LEWIS CREEK-CONROE BULK 138 KV  
 TRIP LEWIS CREEK-CONROE BULK, LEWIS CREEK-SECURITY 138 KV  
 FILE: Fault-3A.OUT



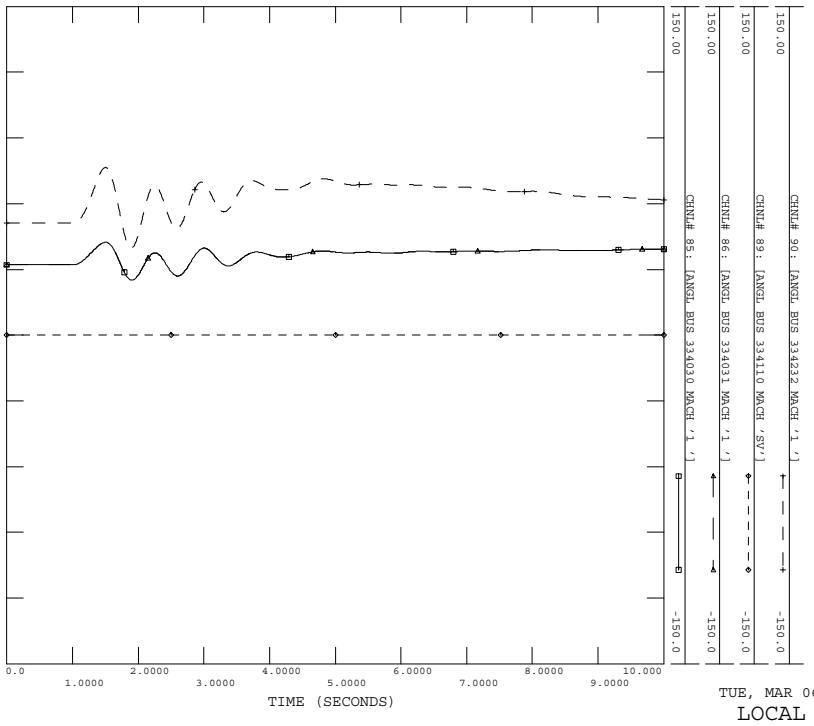


### **C.1.27      FAULT-4A**

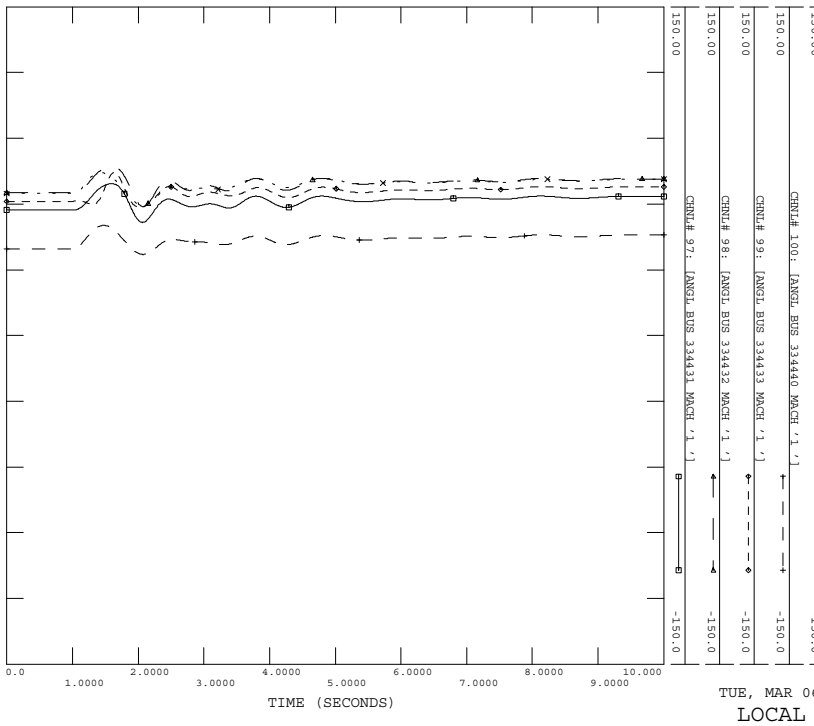
1 phase fault on the Lewis Creek-Security 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek-Security 138 kV
- c) Breaker (1655) Stuck at Lewis Creek
- d) Clear fault after 13 cycles by tripping the Lewis Creek-Conroe Bulk

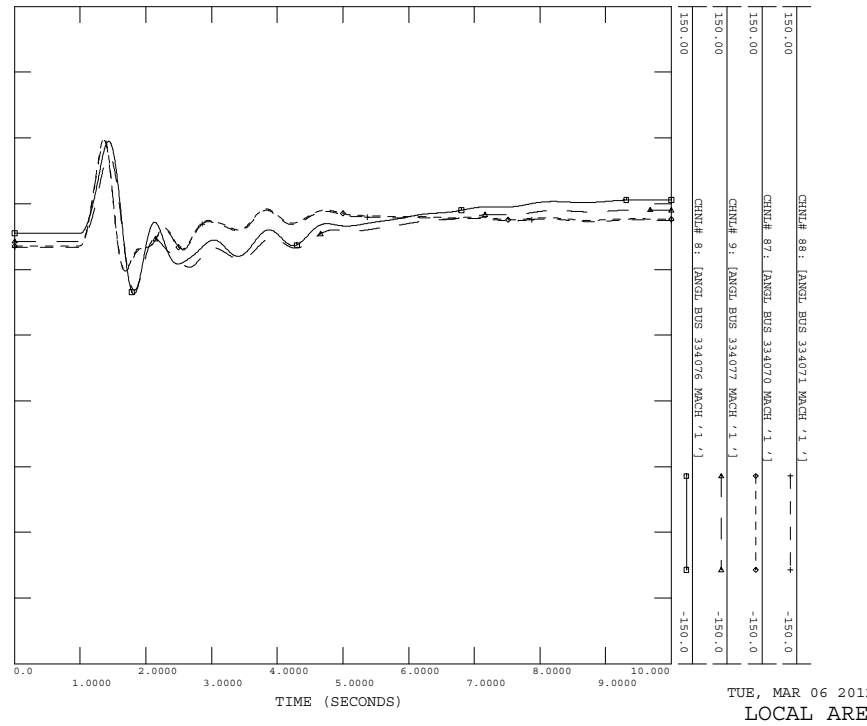
6+13CY SIG STOCKERK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



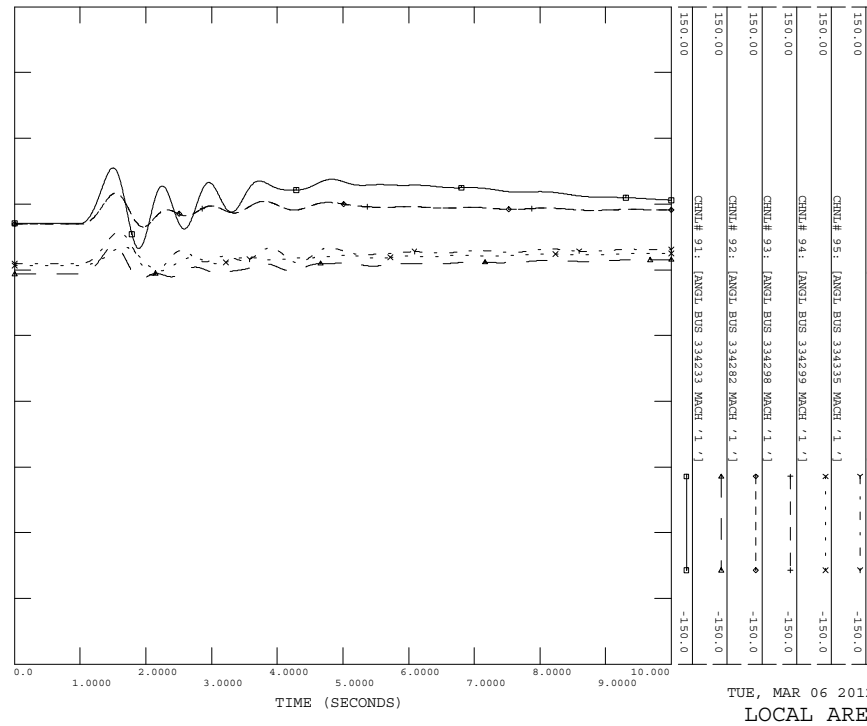
6+13CY SIG STOCKERK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



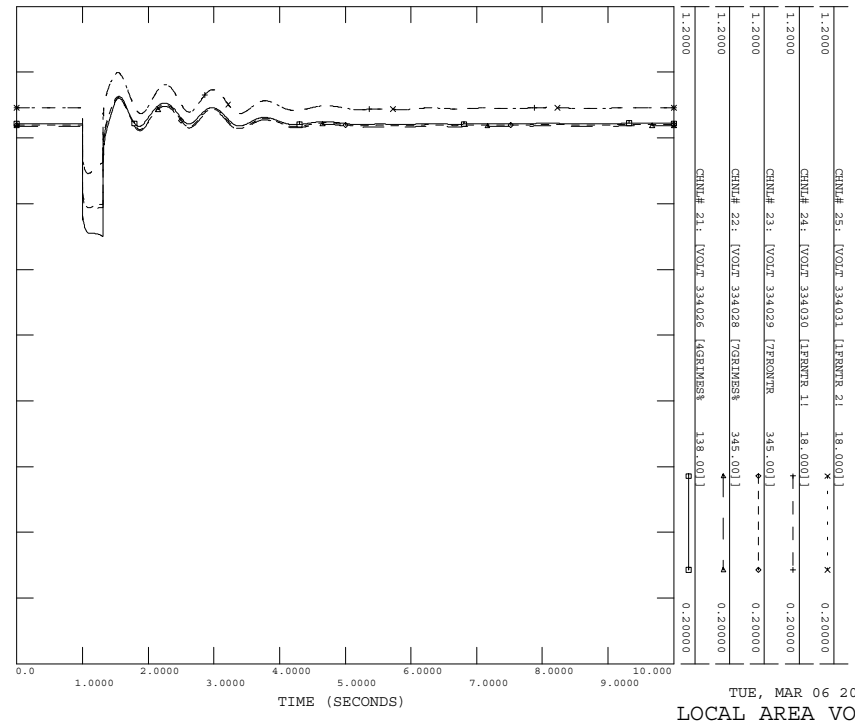
6+13CY SIG STOCKERK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



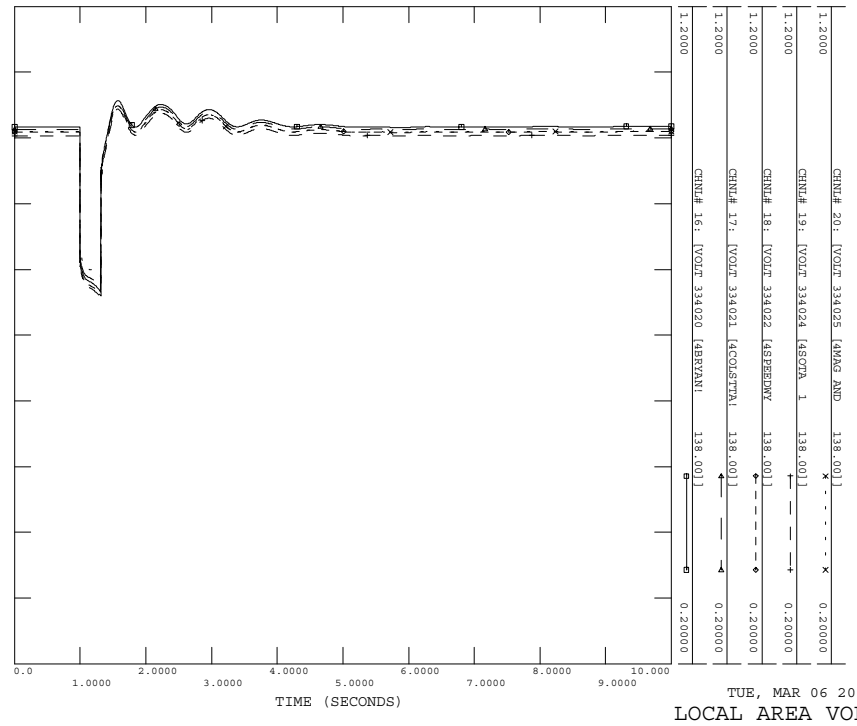
6+13CY SIG STOCKERK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



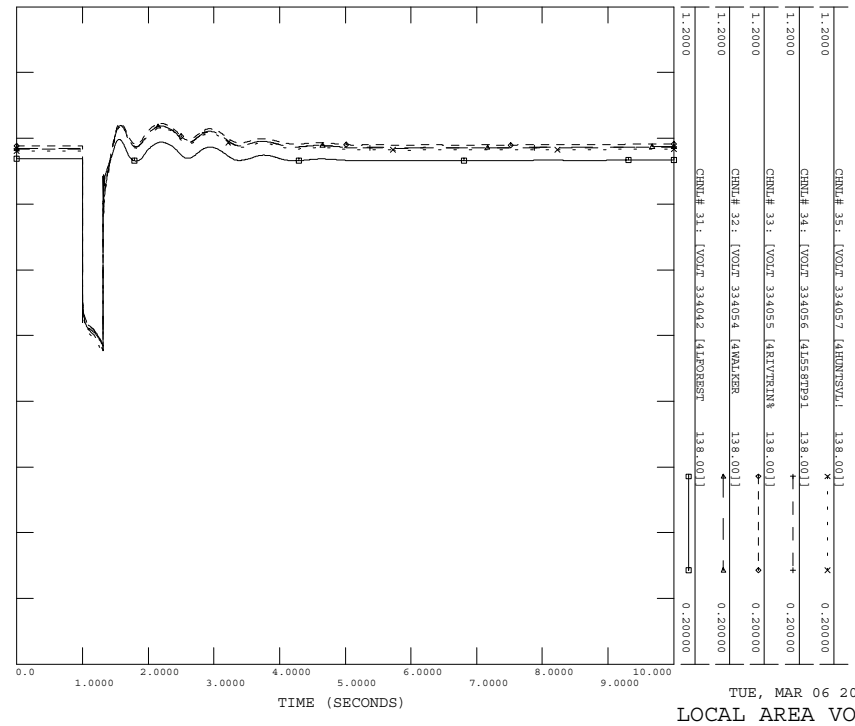
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY,LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



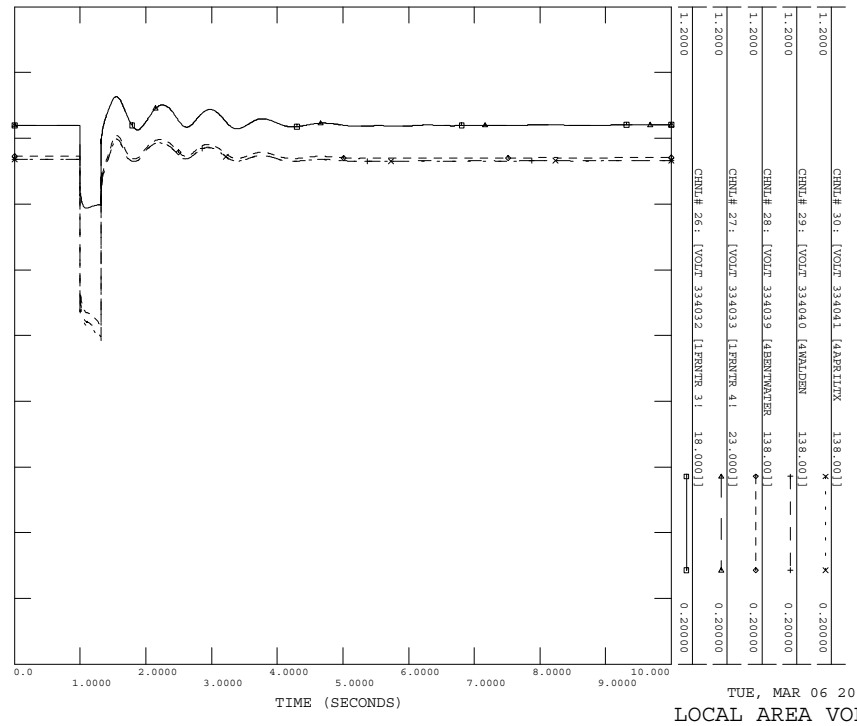
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY,LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



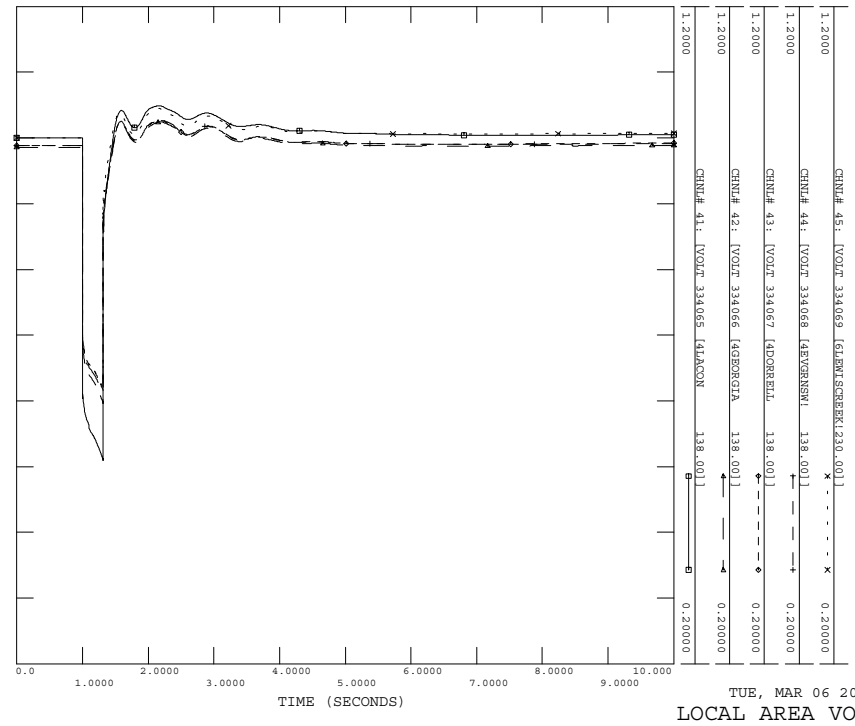
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY,LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



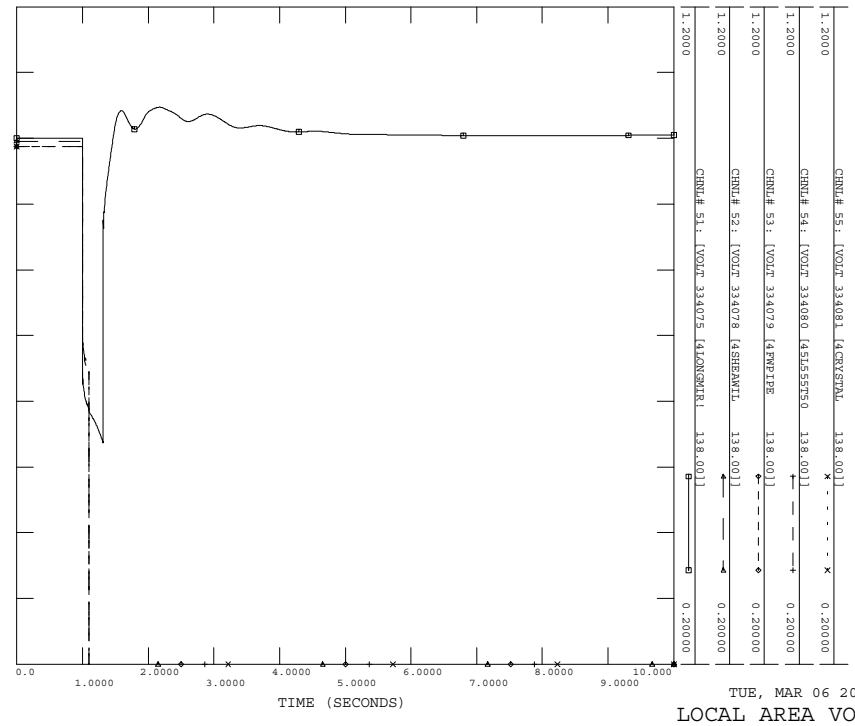
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY,LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



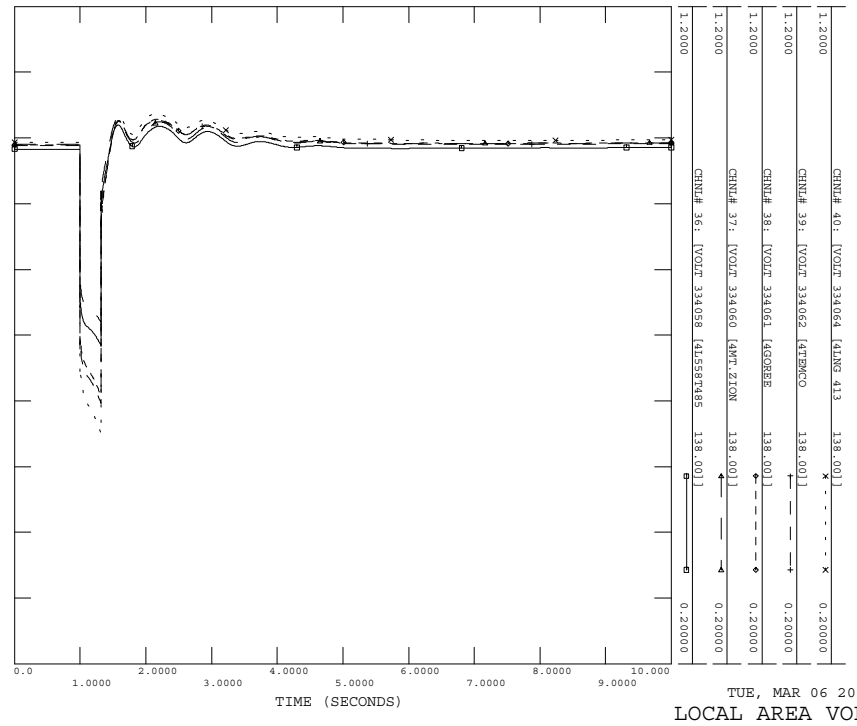
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY,LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



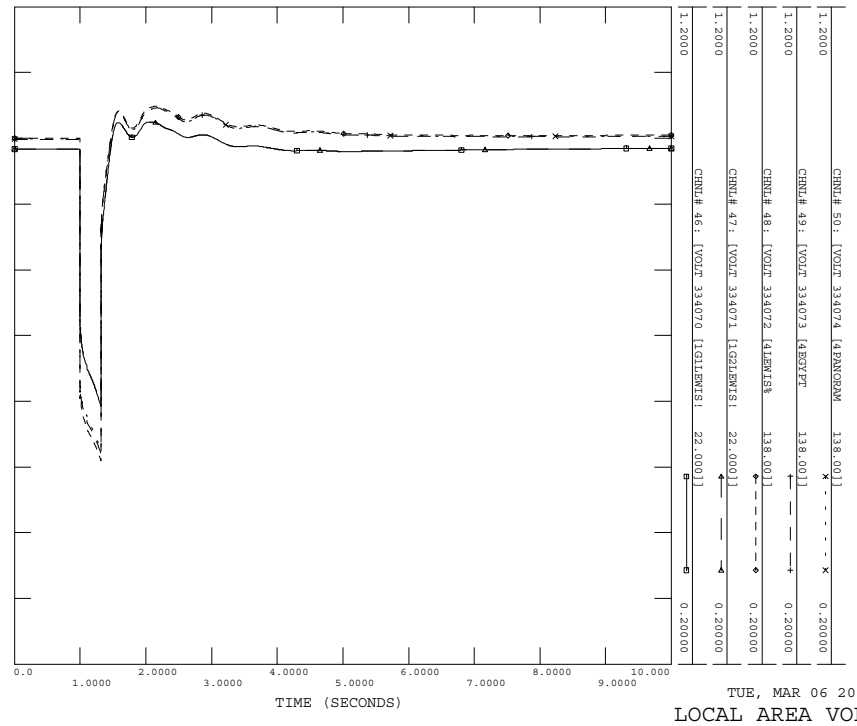
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY,LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



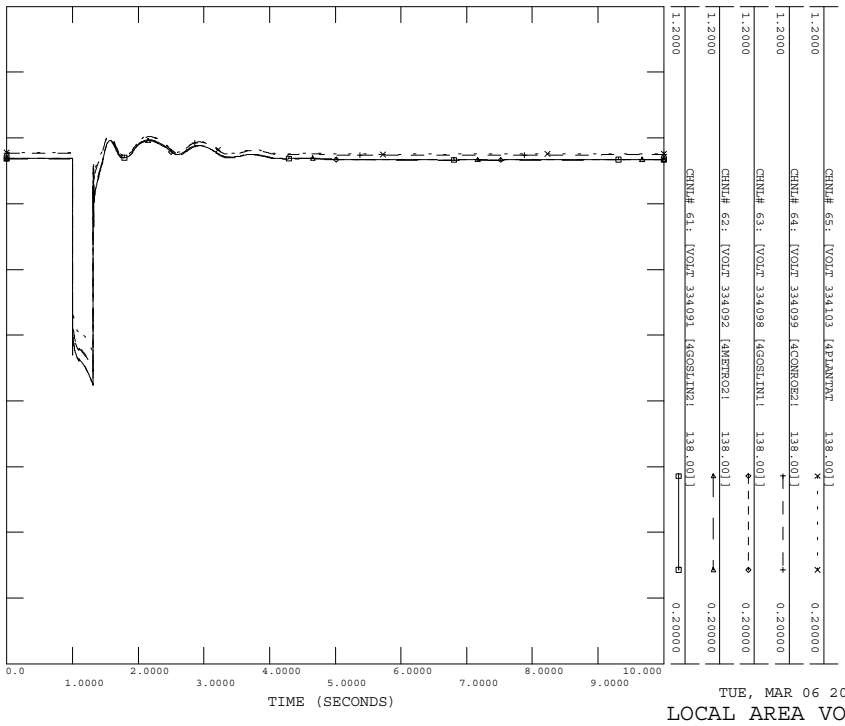
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY,LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



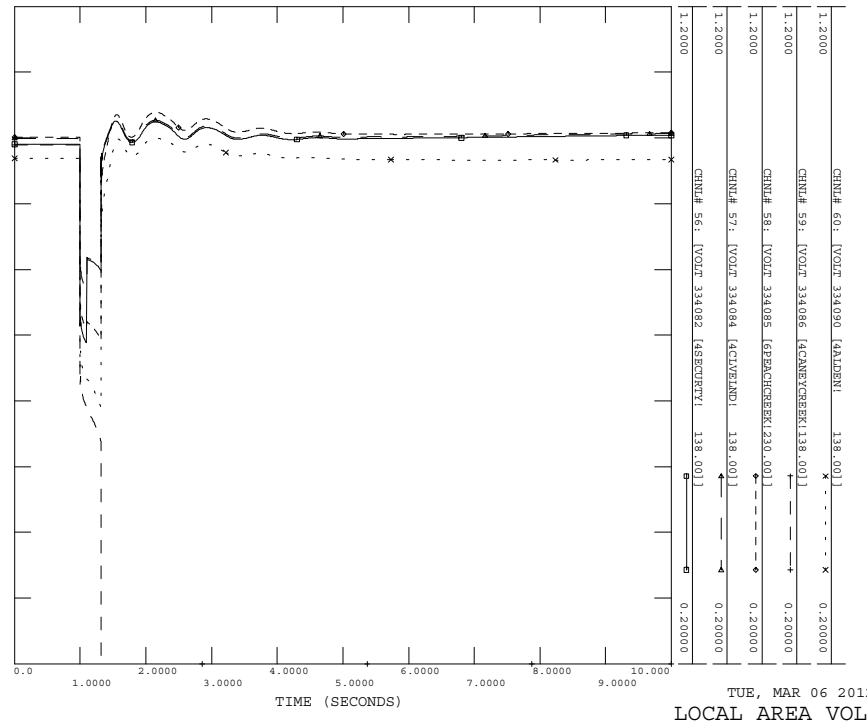
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY,LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



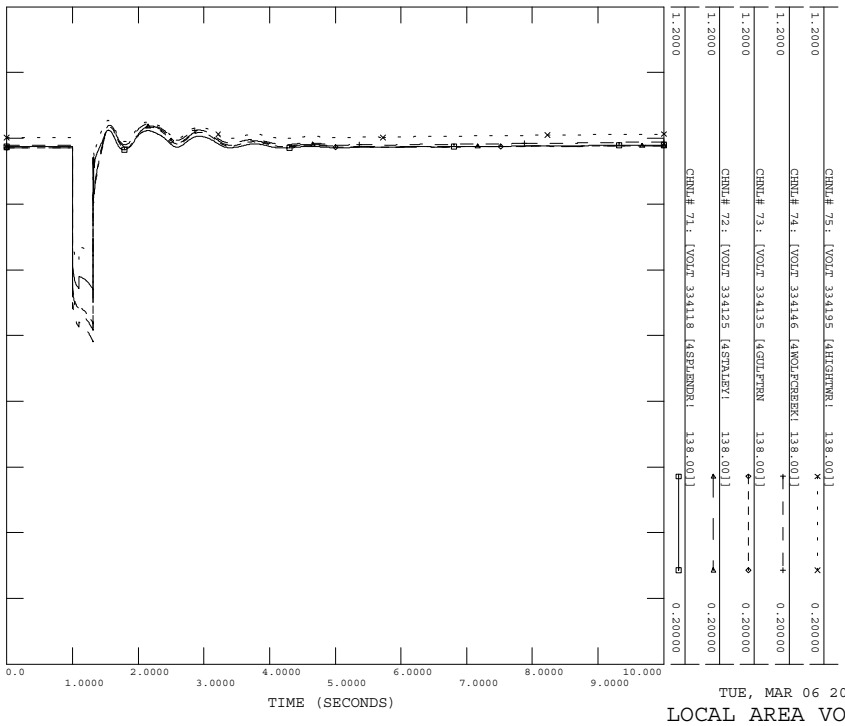
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



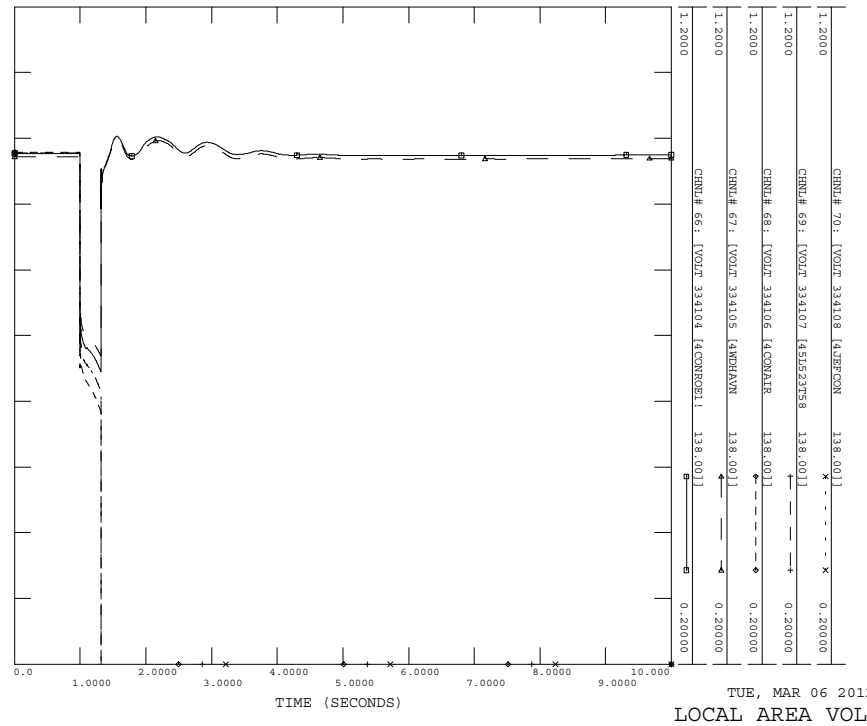
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



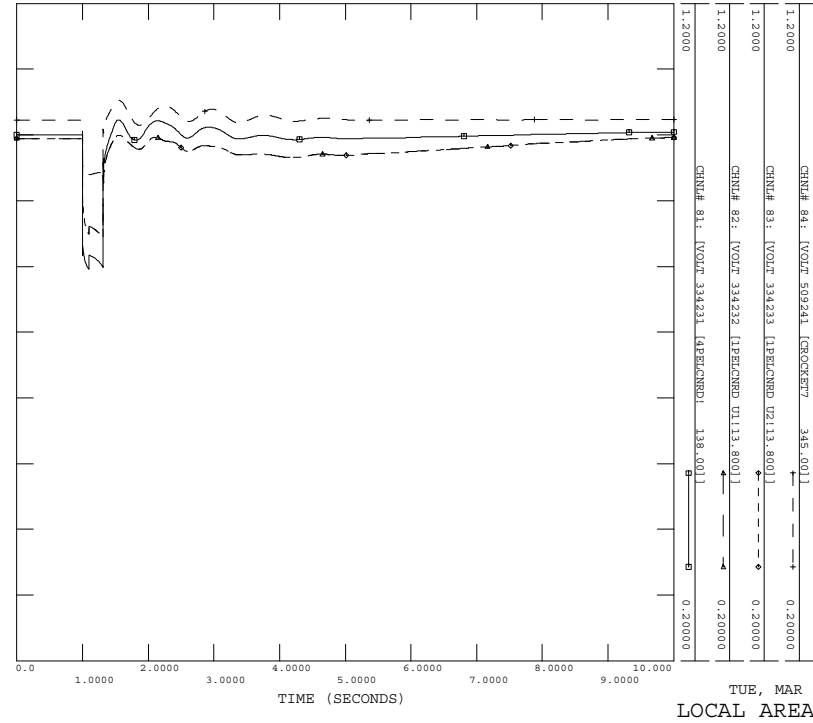
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



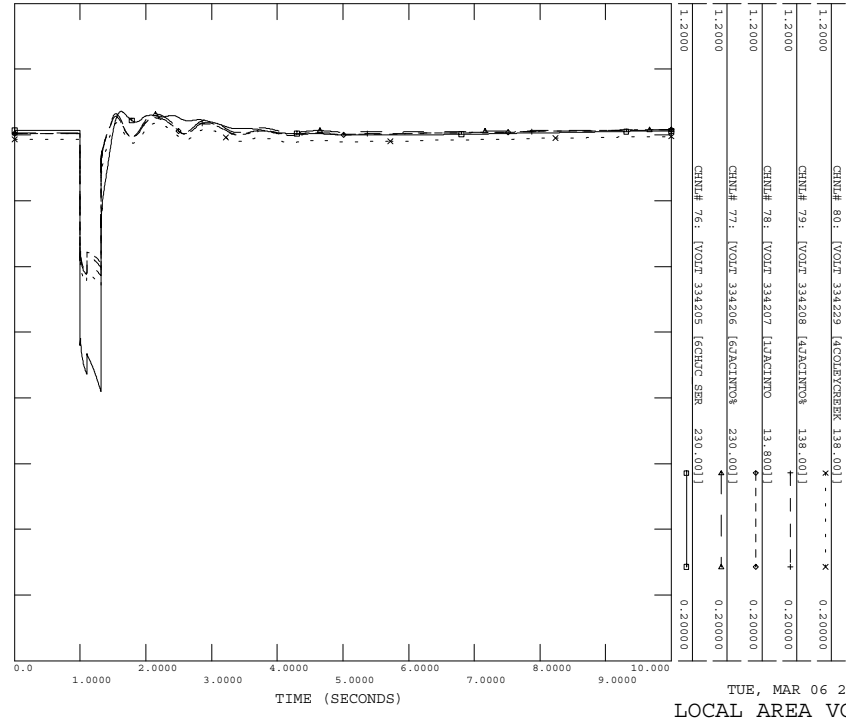
6+13CY SIG STOCKBRK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



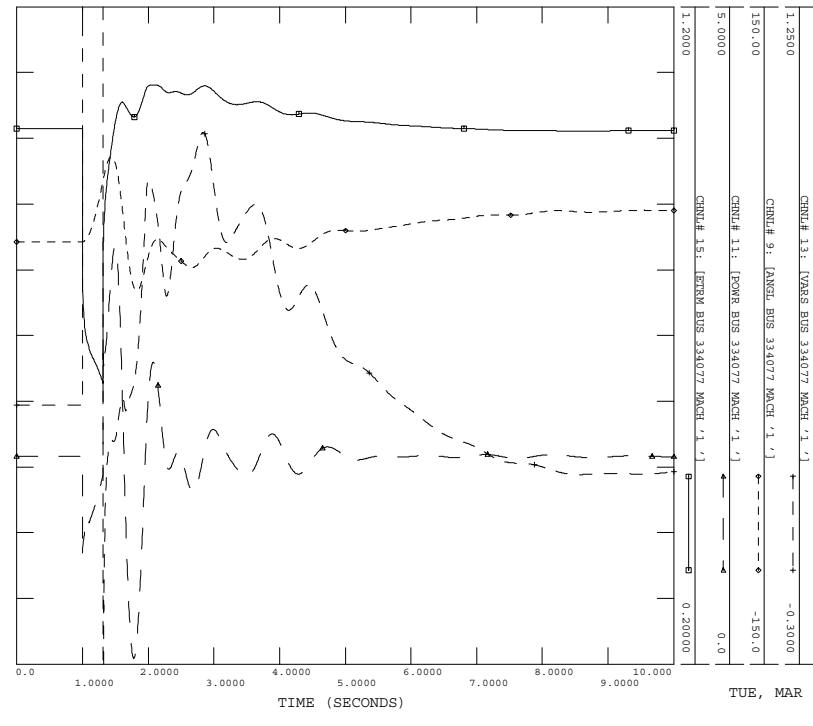
6+13CY SIG STUCKERK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



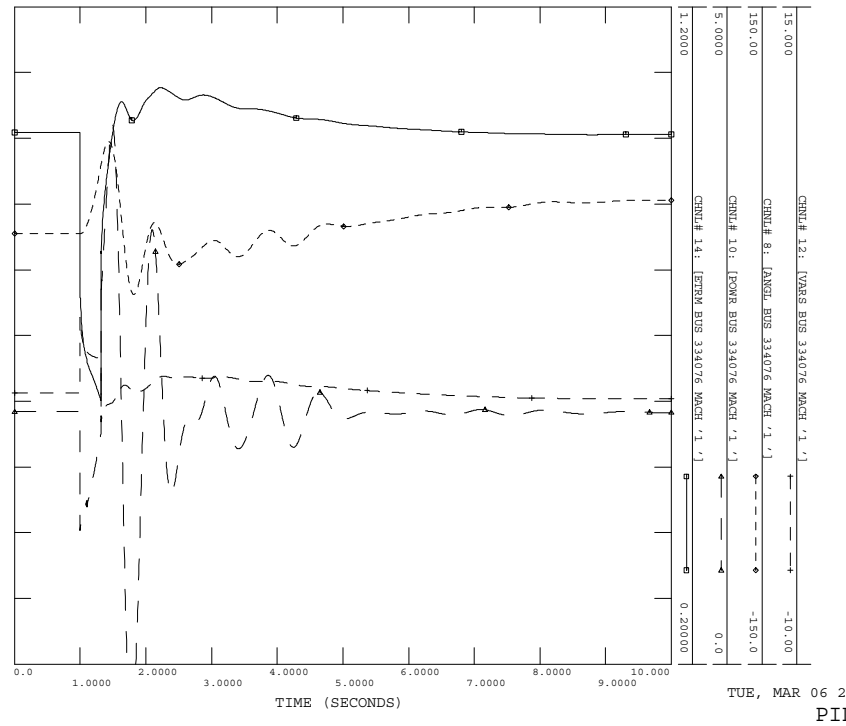
6+13CY SIG STUCKERK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



6+13CY SIG STUCKERK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT



6+13CY SIG STUCKERK LEWIS CREEK-SECURITY 138 KV  
 TRIP LEWIS CREEK-SECURITY, LEWIS CREEK-CONROE BULK 138 KV  
 FILE: Fault-4A.OUT

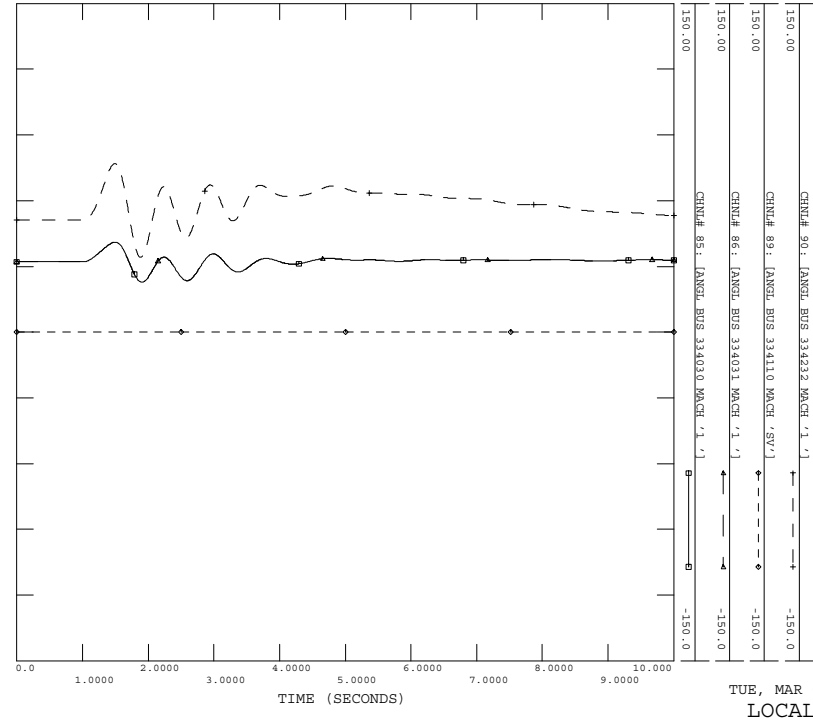


### **C.1.28      FAULT-5A**

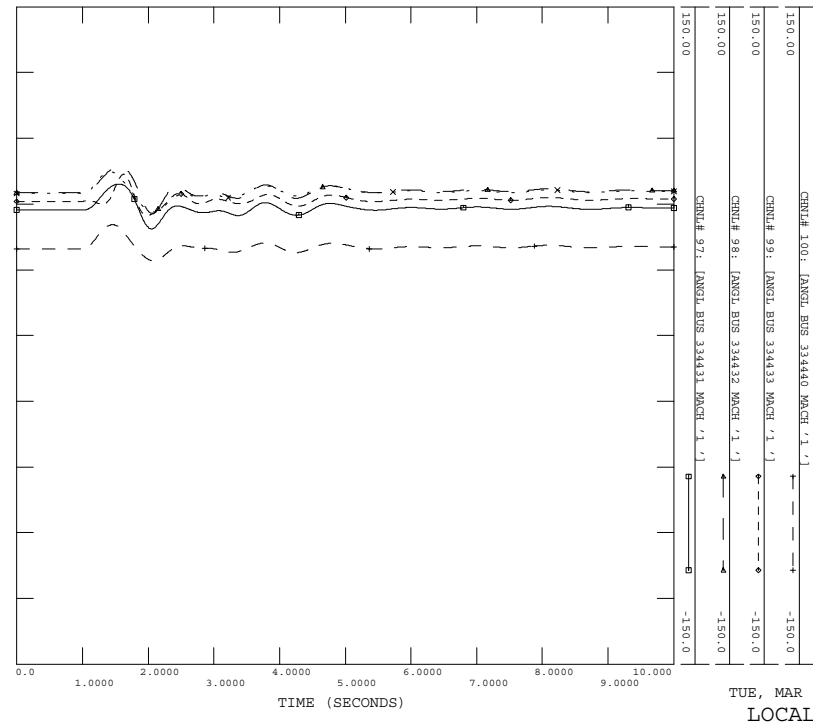
1 phase fault on the Lewis Creek – Rivtrin 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek – Rivtrin 138 kV
- c) Breaker (1630) Stuck at Lewis Creek
- d) Clear fault after 13 cycles by tripping the Secondary Breaker

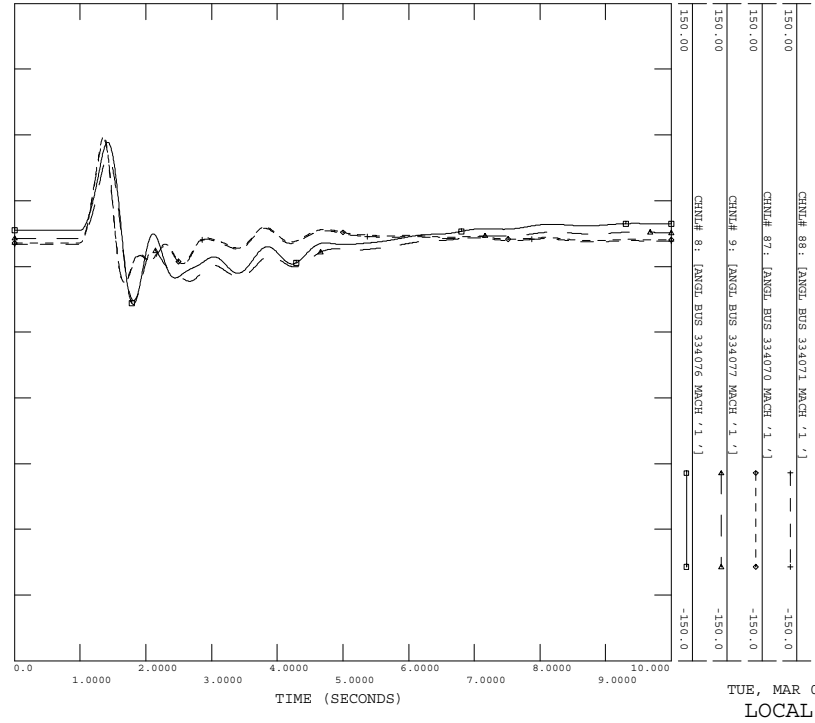
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



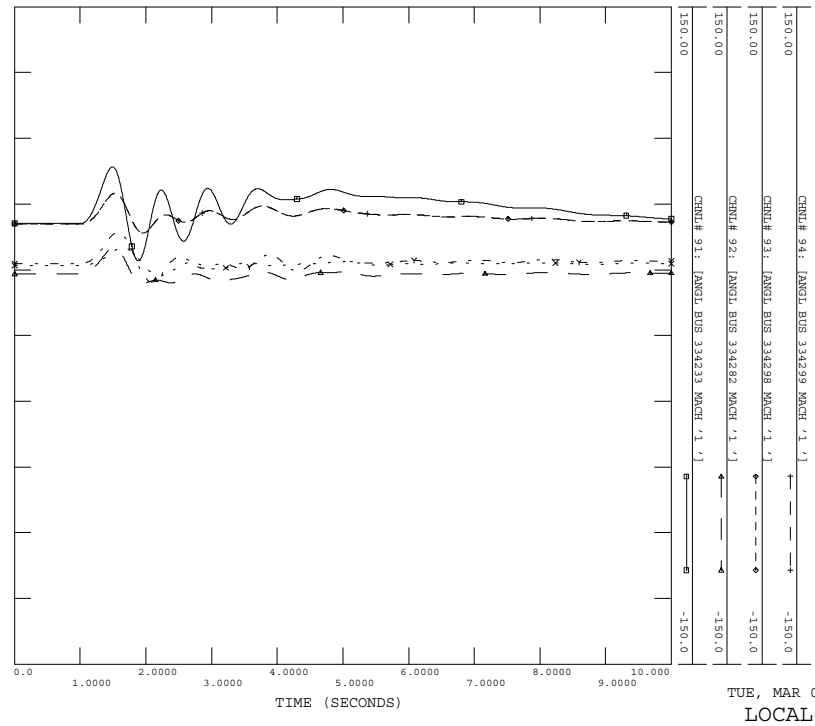
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT

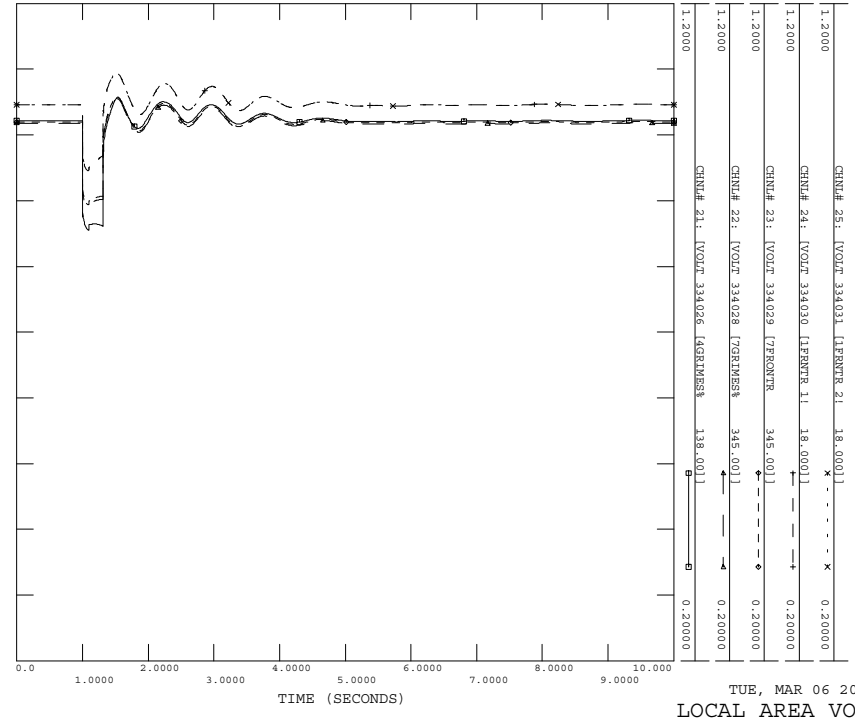


6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT

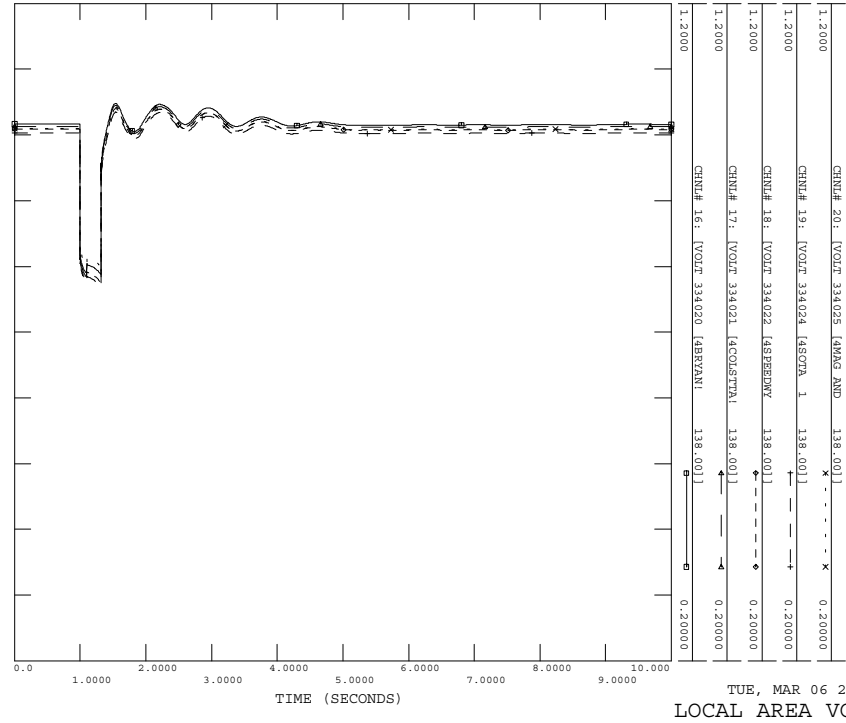




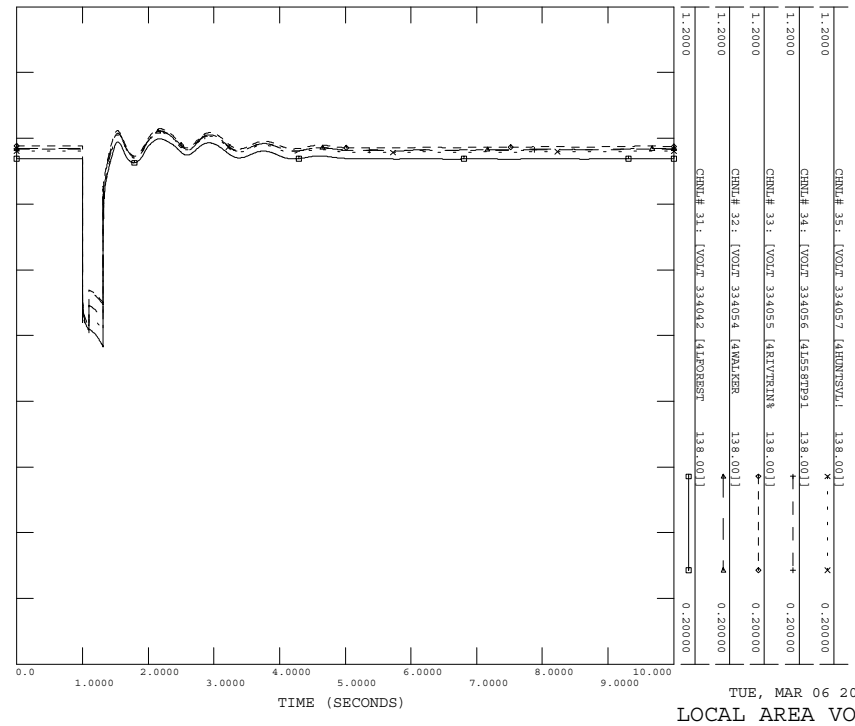
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



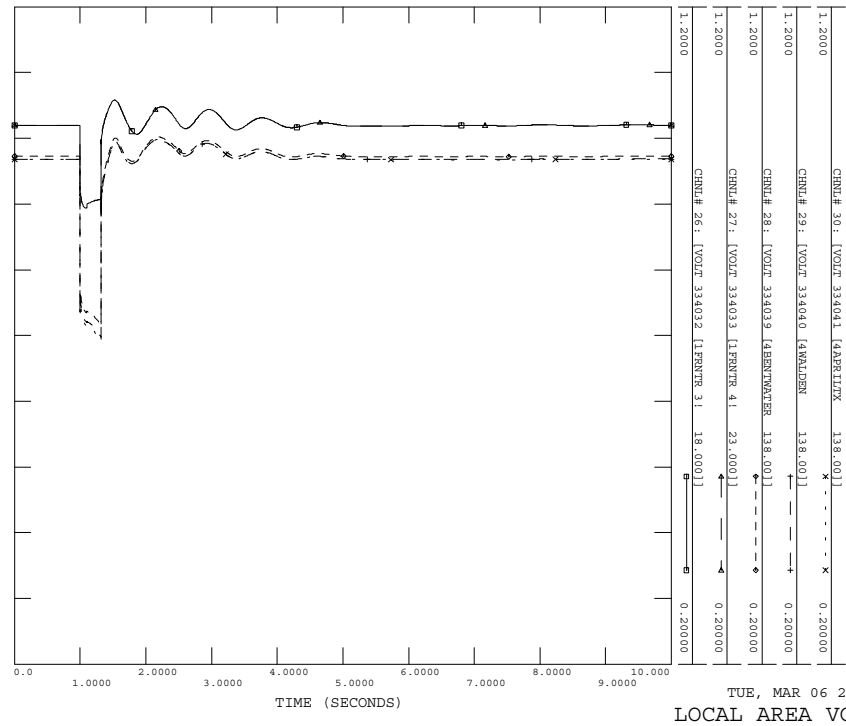
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



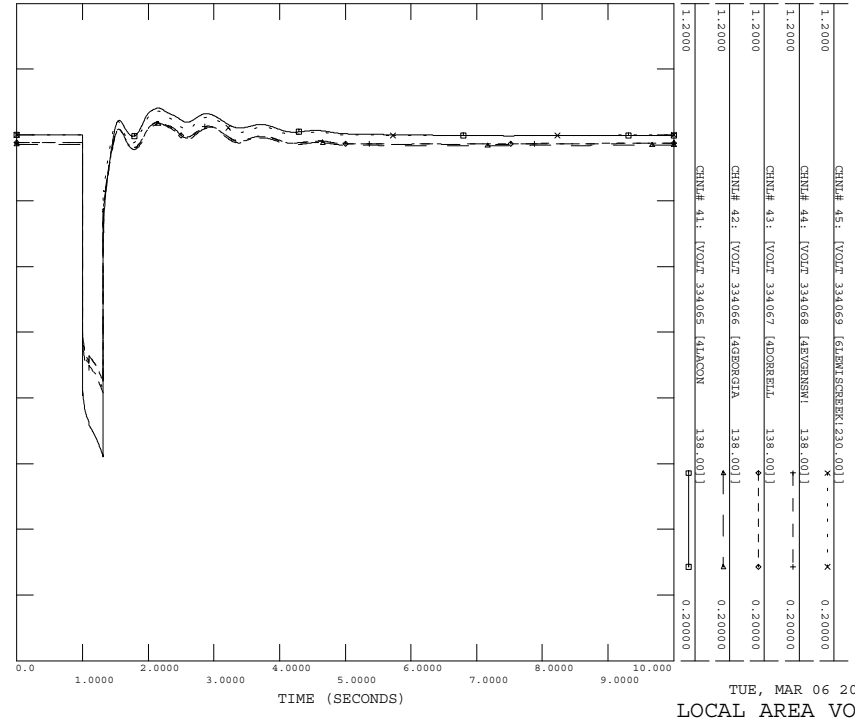
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



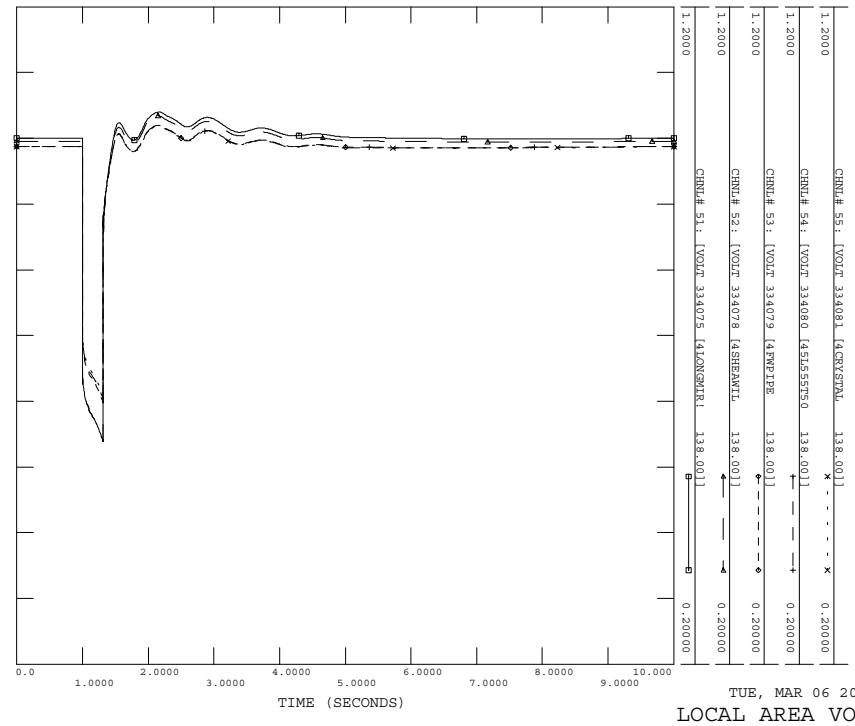
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



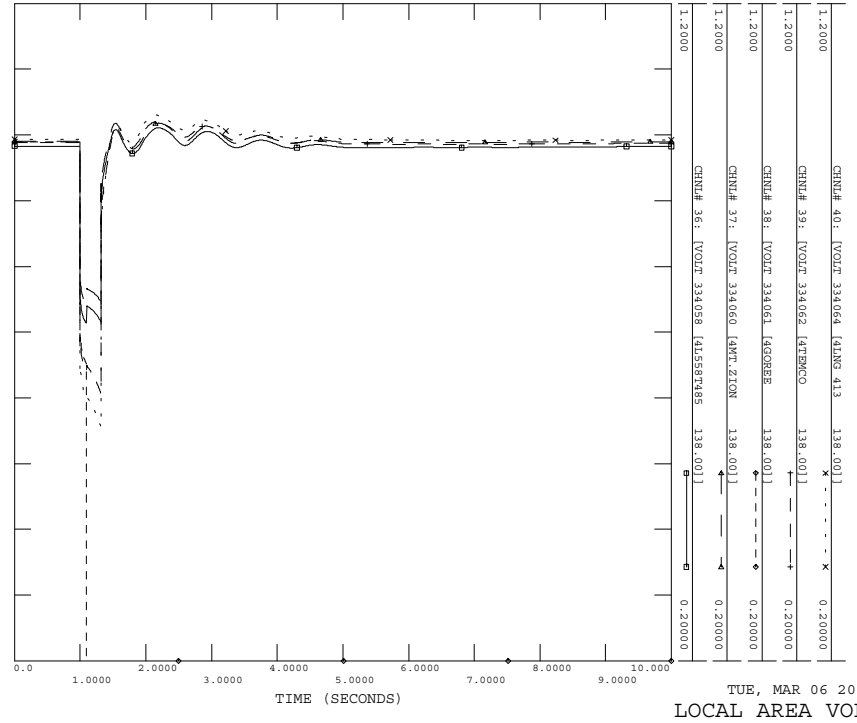
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



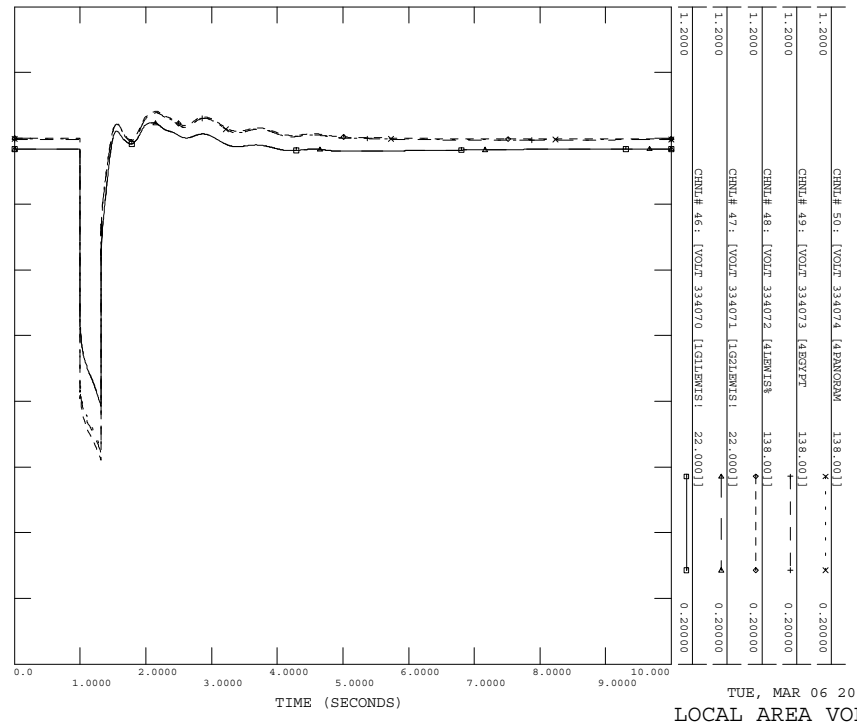
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



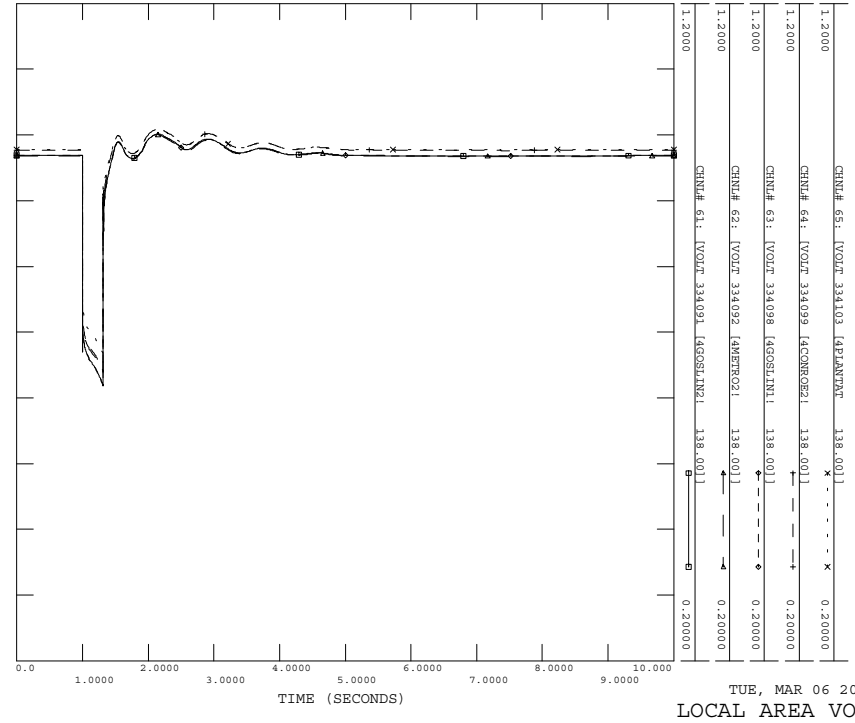
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



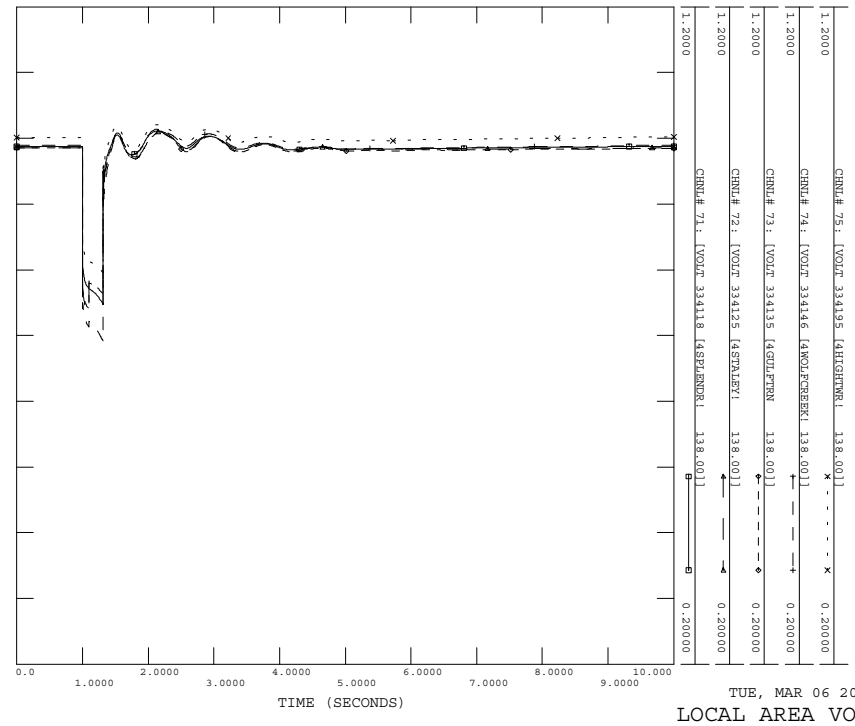
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



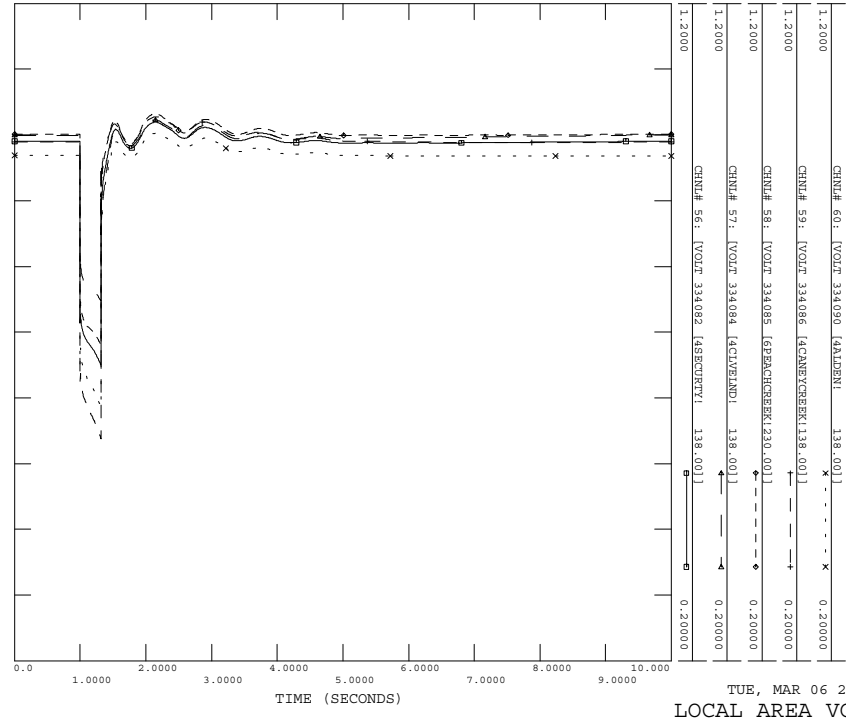
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



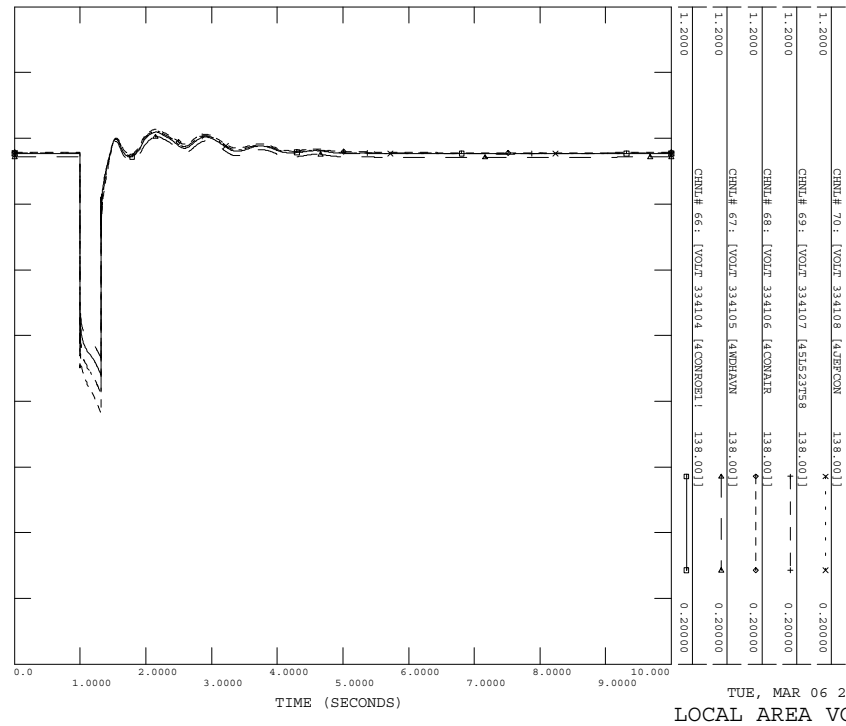
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



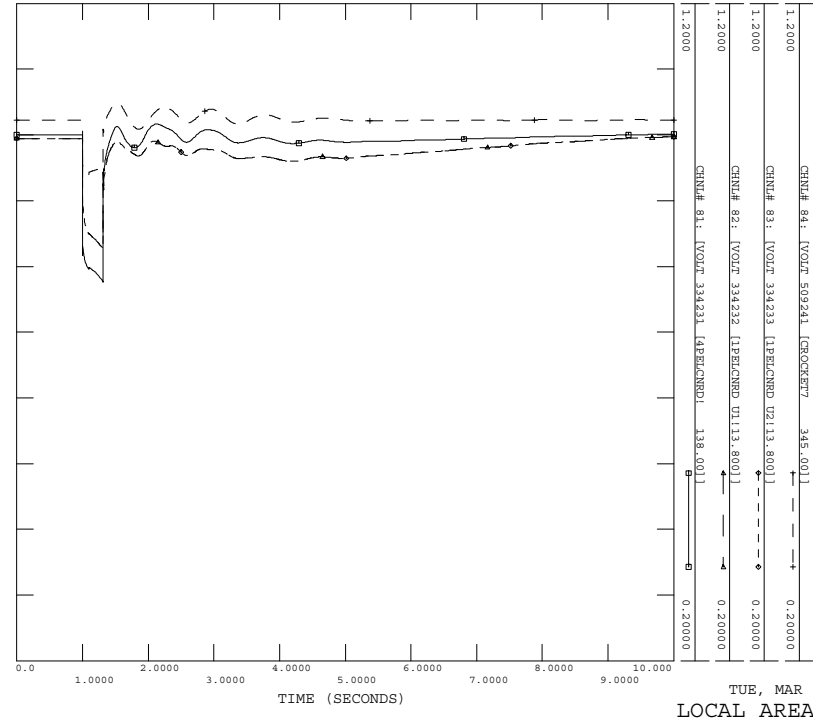
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



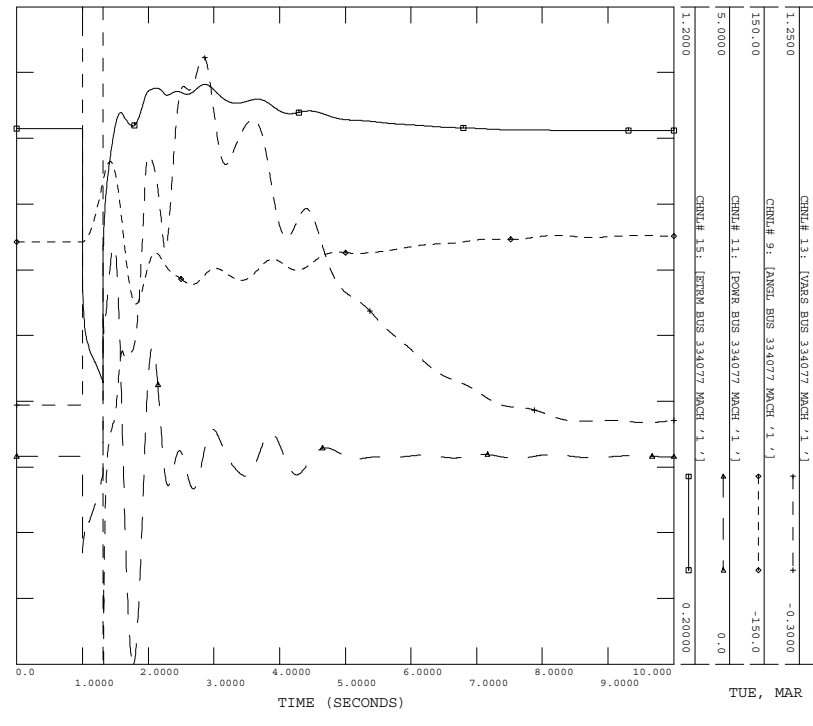
6+13CY SIG STOCKERK LEWIS CREEK - RIVYTRIN 138 KV  
 TRIP LEWIS CREEK - RIVYTRIN 138 KV  
 FILE: Fault-5A.OUT



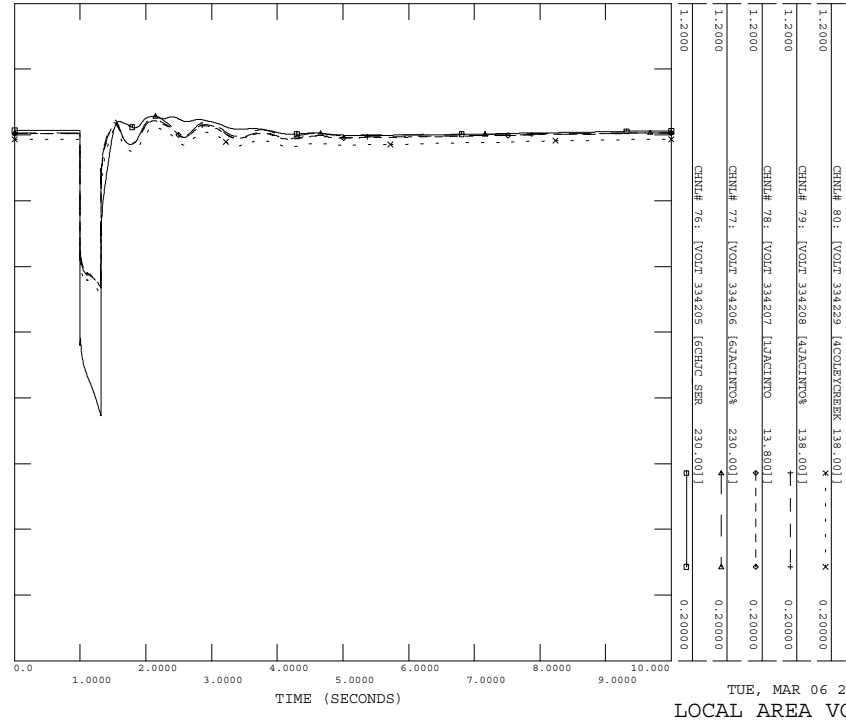
6+13CY SIG STOCKERK LEWIS CREEK - RIVYRIN 138 KV  
 TRIP LEWIS CREEK - RIVYRIN 138 KV  
 FILE: Fault-5A.OUT



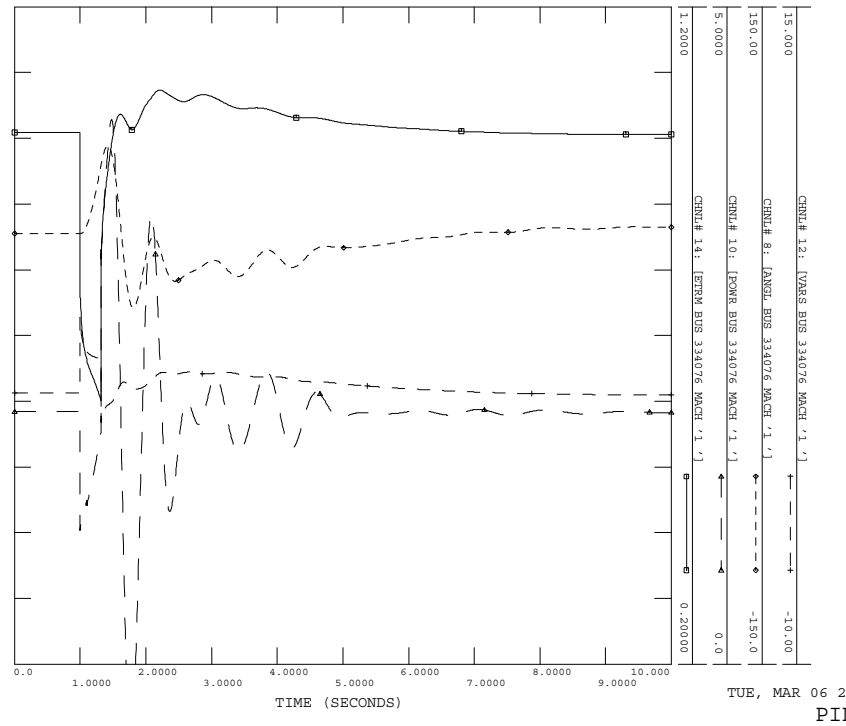
6+13CY SIG STOCKERK LEWIS CREEK - RIVYRIN 138 KV  
 TRIP LEWIS CREEK - RIVYRIN 138 KV  
 FILE: Fault-5A.OUT



6+13CY SIG STOCKERK LEWIS CREEK - RIVYRIN 138 KV  
 TRIP LEWIS CREEK - RIVYRIN 138 KV  
 FILE: Fault-5A.OUT



6+13CY SIG STOCKERK LEWIS CREEK - RIVYRIN 138 KV  
 TRIP LEWIS CREEK - RIVYRIN 138 KV  
 FILE: Fault-5A.OUT

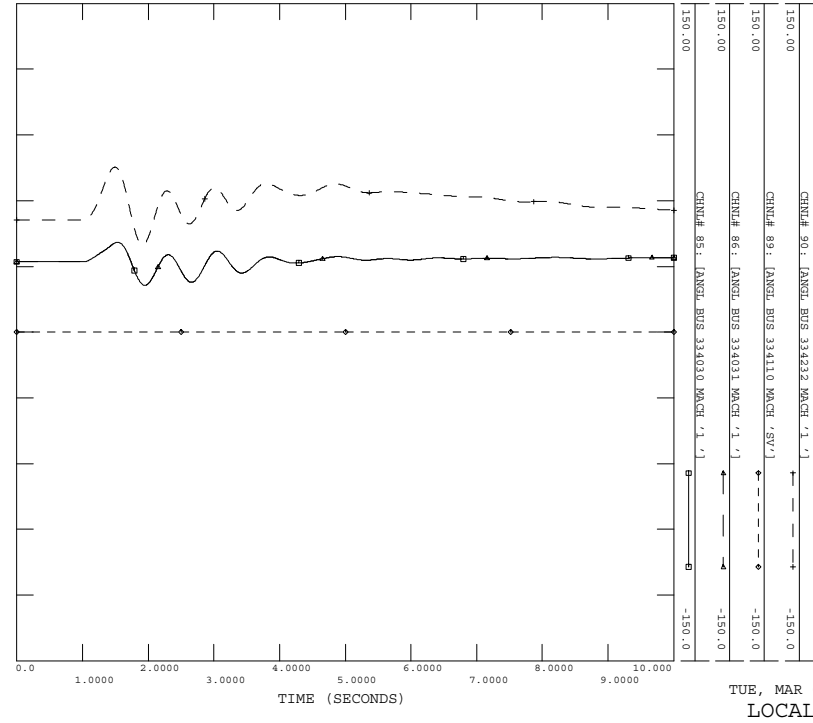


### **C.1.29      FAULT-6A**

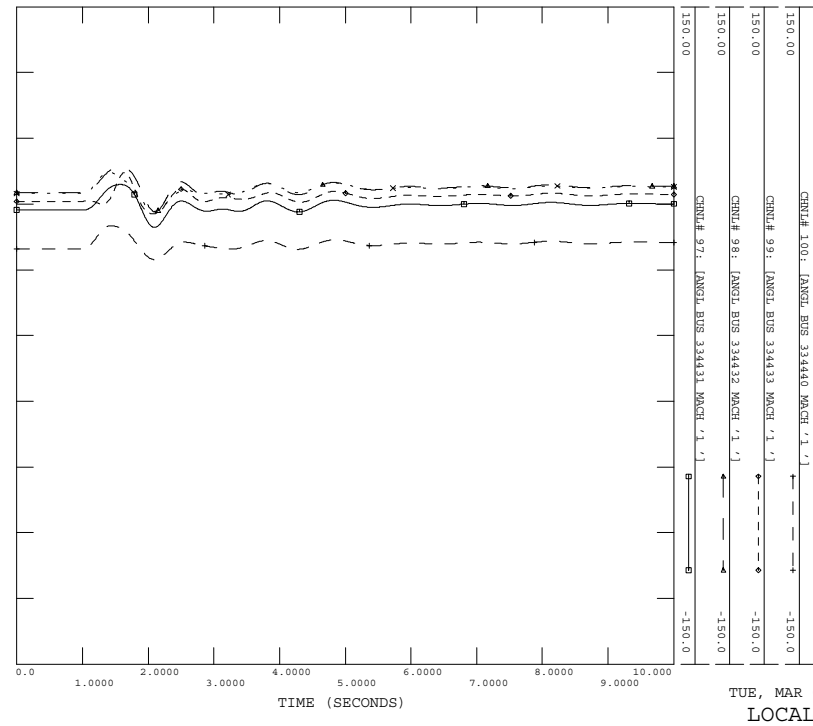
1 phase fault on the Lewis Creek – Huntsville 138 kV

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek – Huntsville 138 kV
- c) Breaker (1615) Stuck at Lewis Creek
- d) Clear fault after 13 cycles by tripping the Lewis Creek 230/ 138 kV trafo

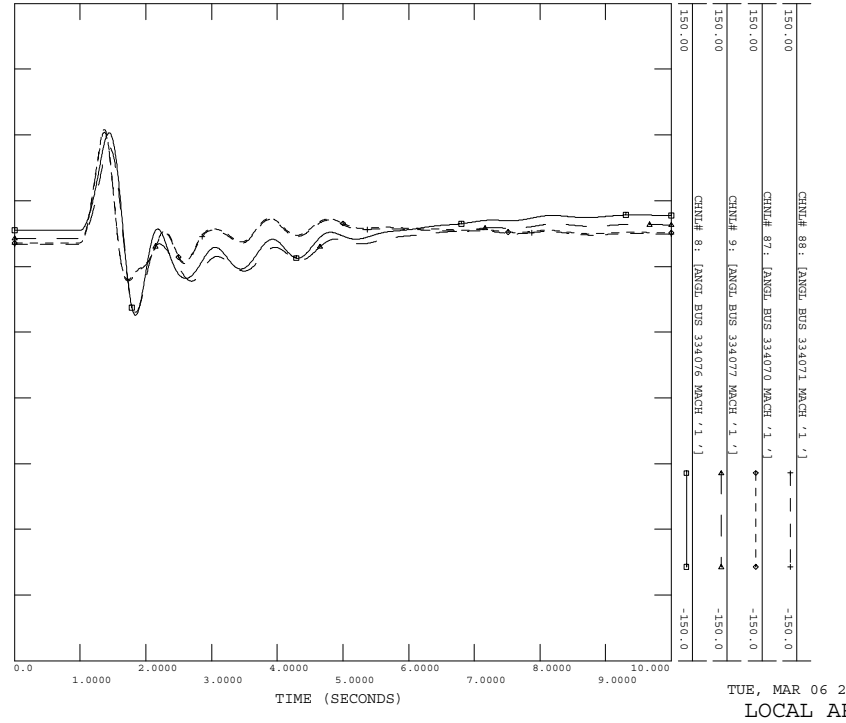
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



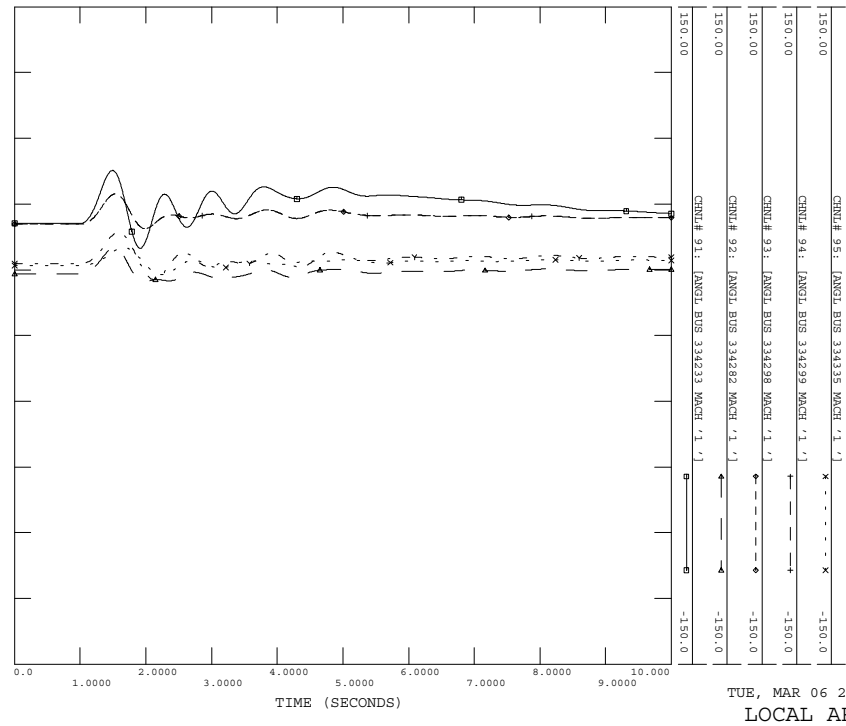
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



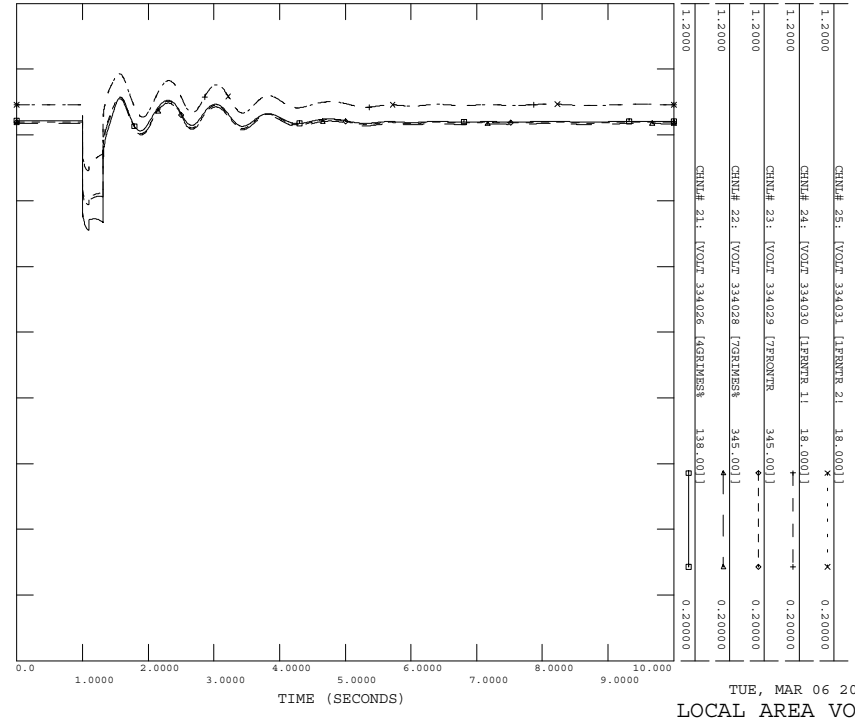
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



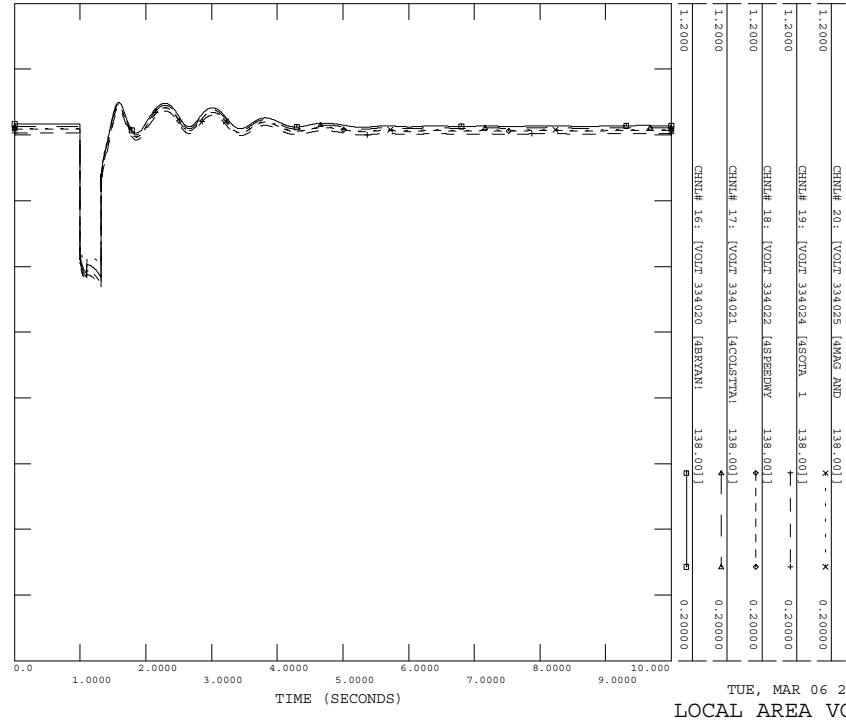
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



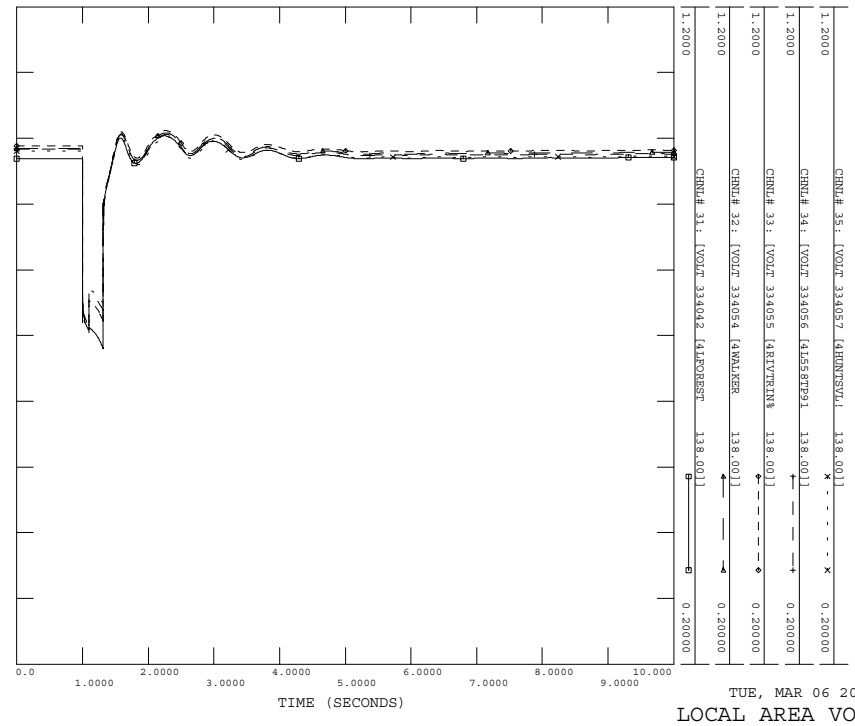
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



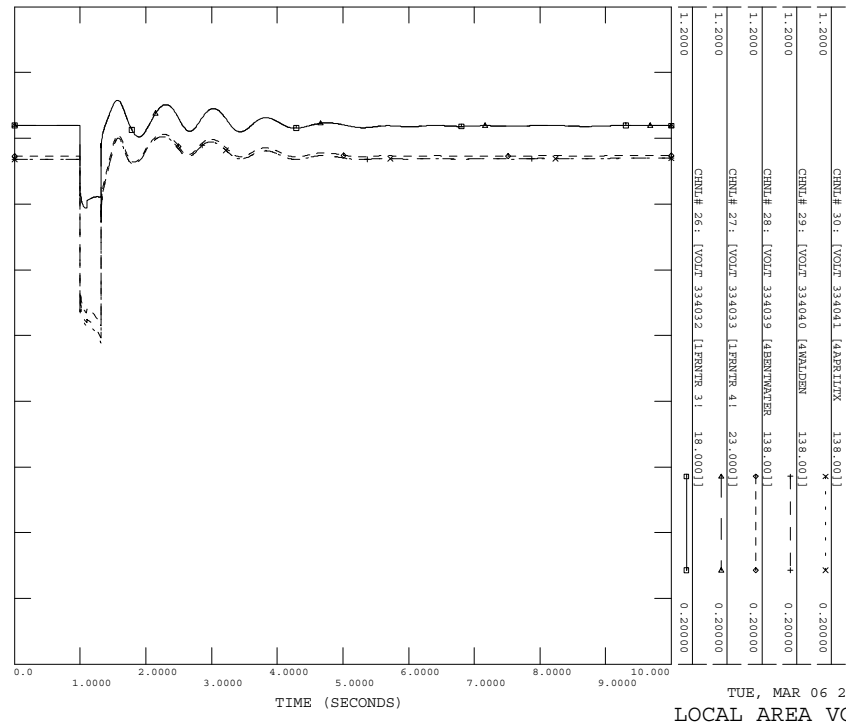
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



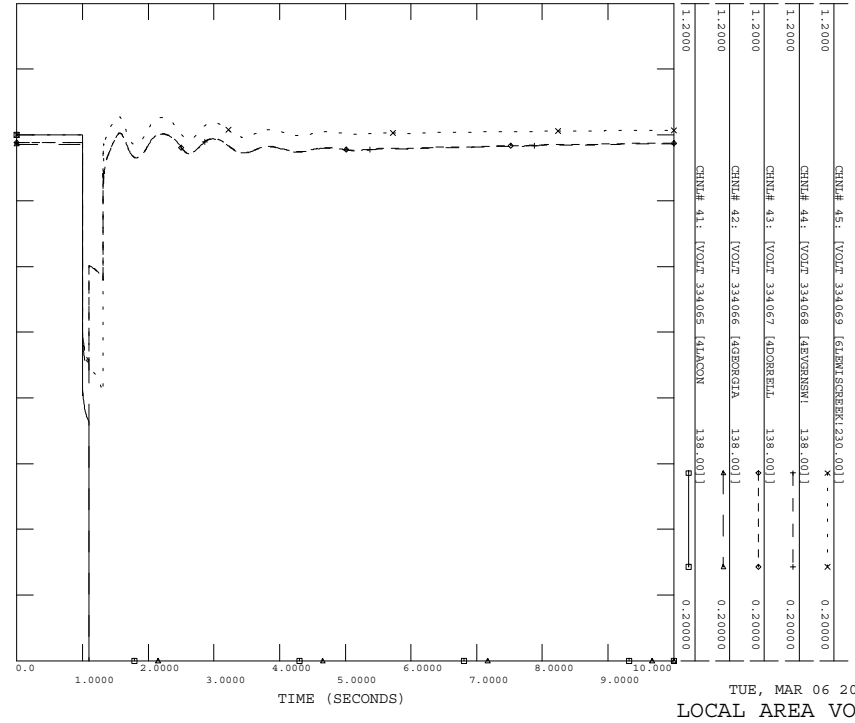
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



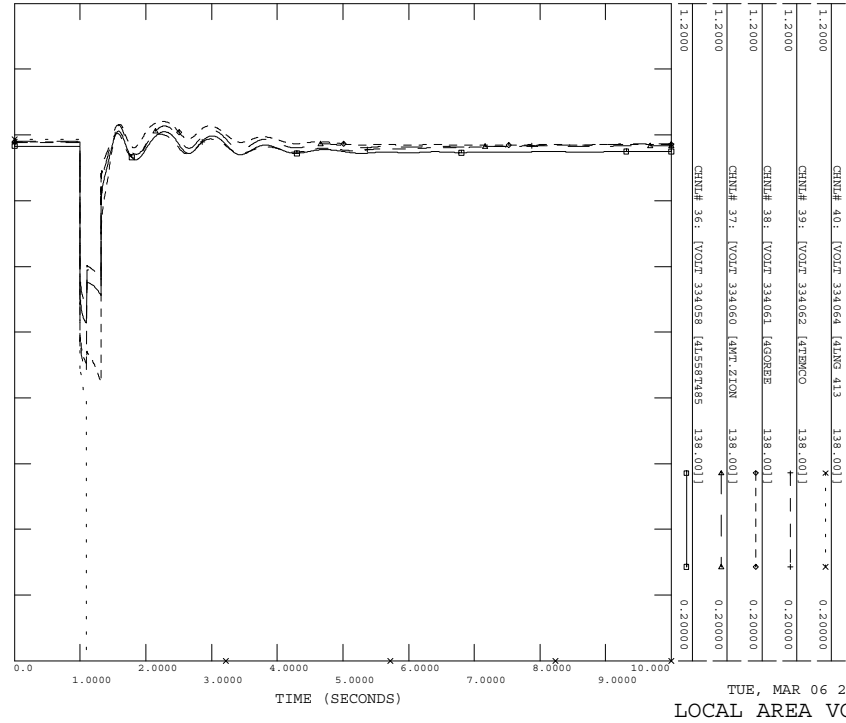
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



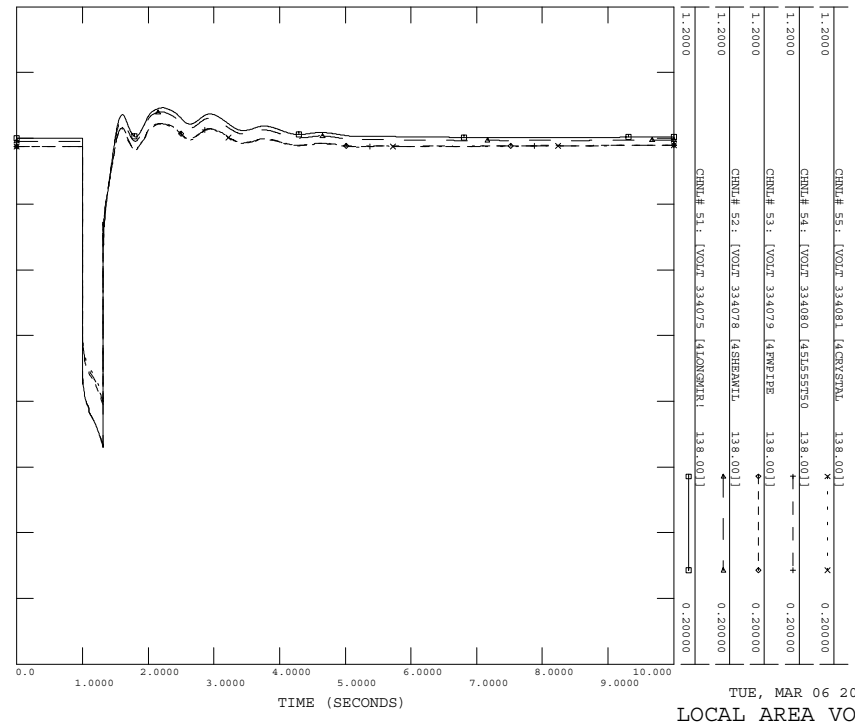
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



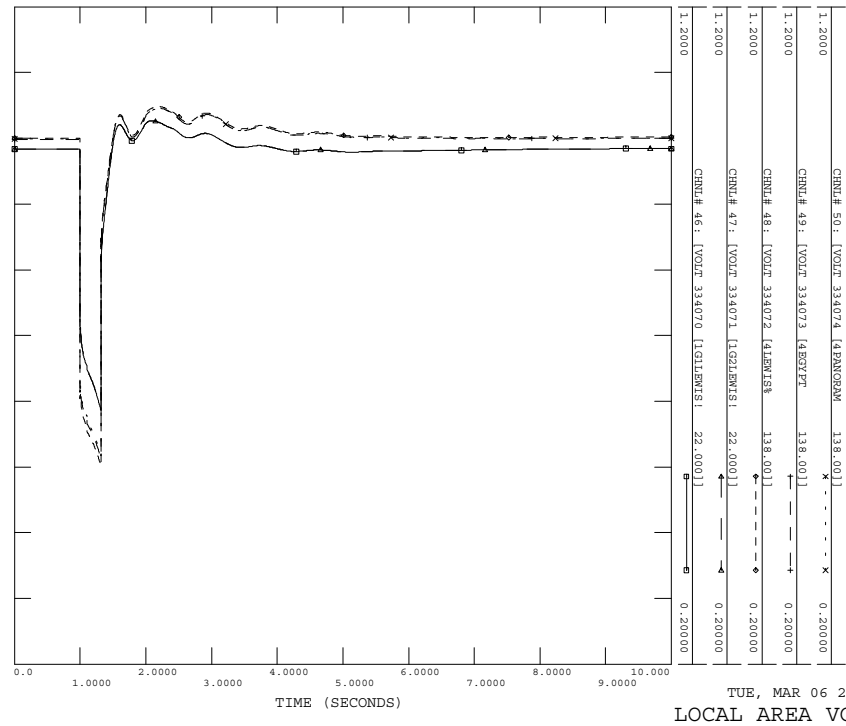
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT

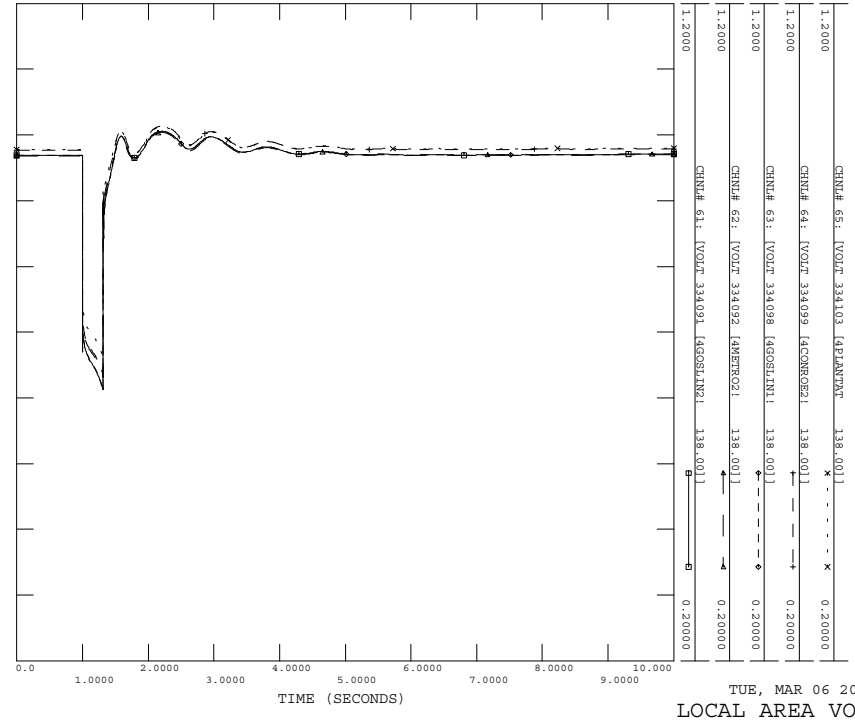


6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT

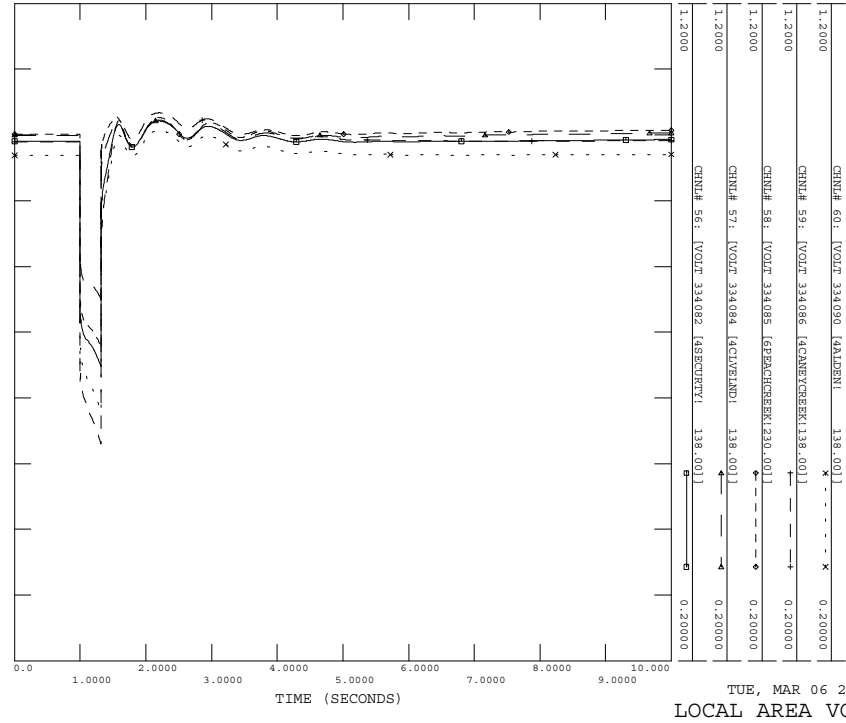




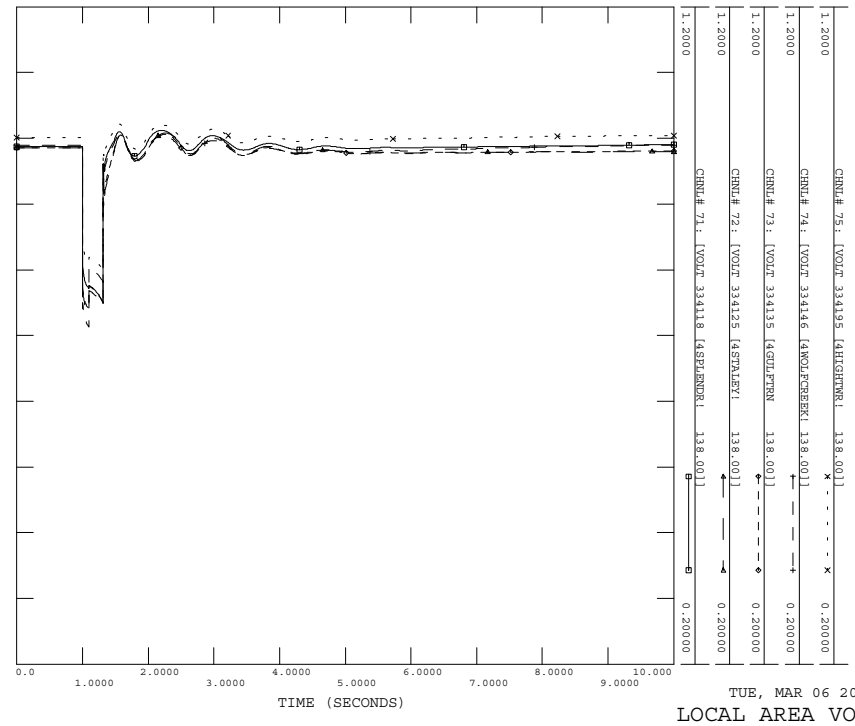
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



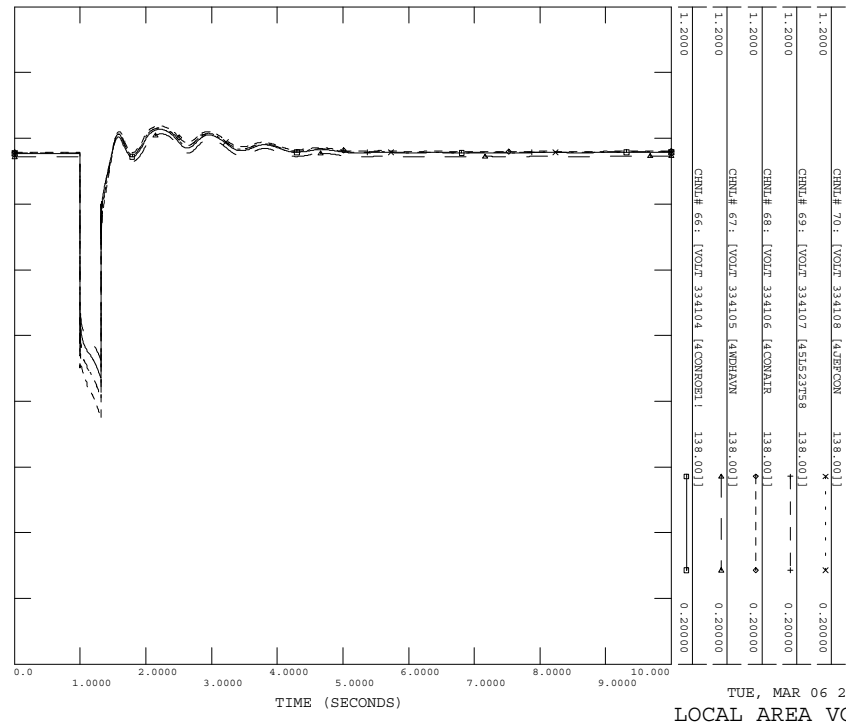
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



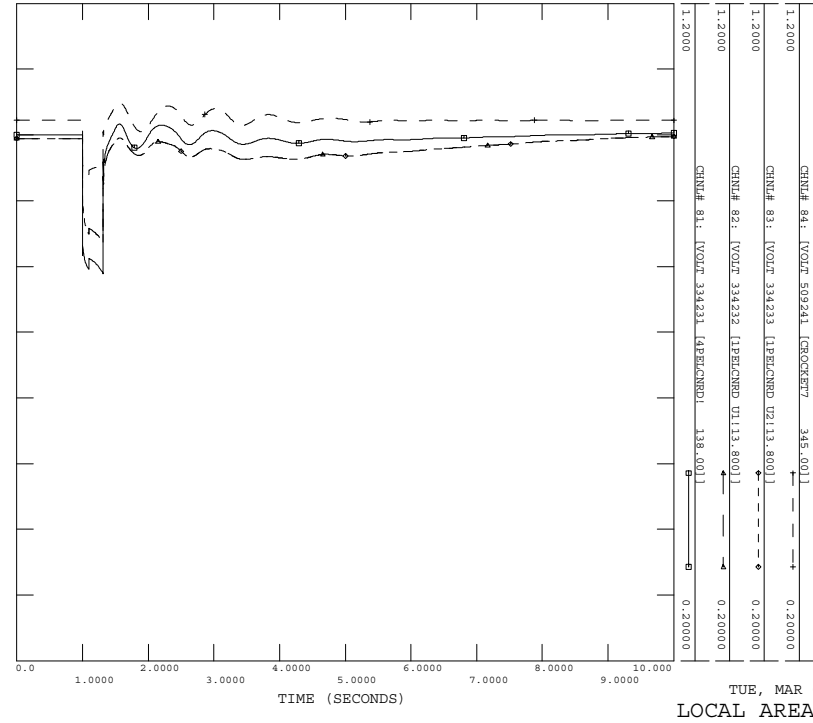
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



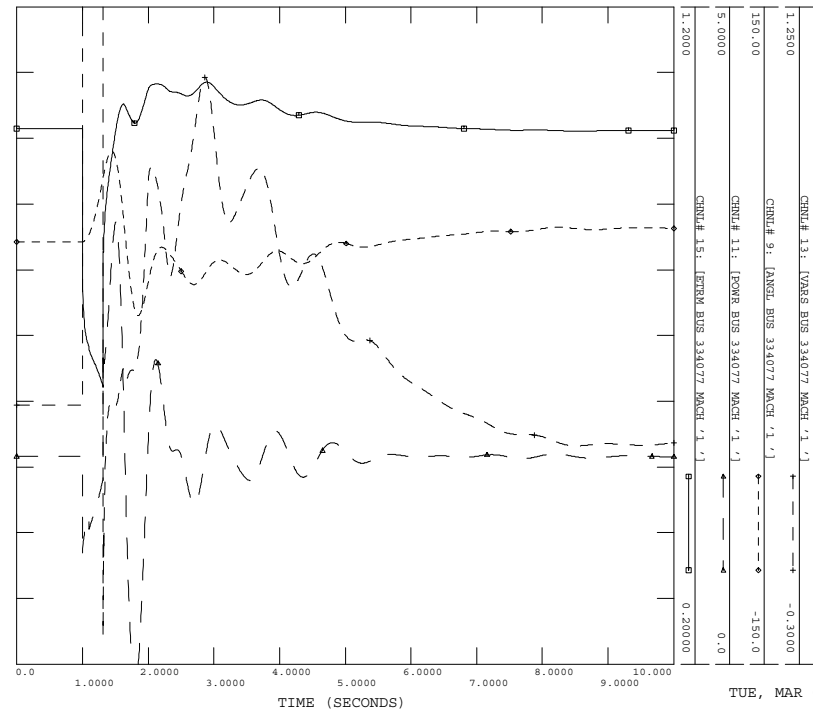
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



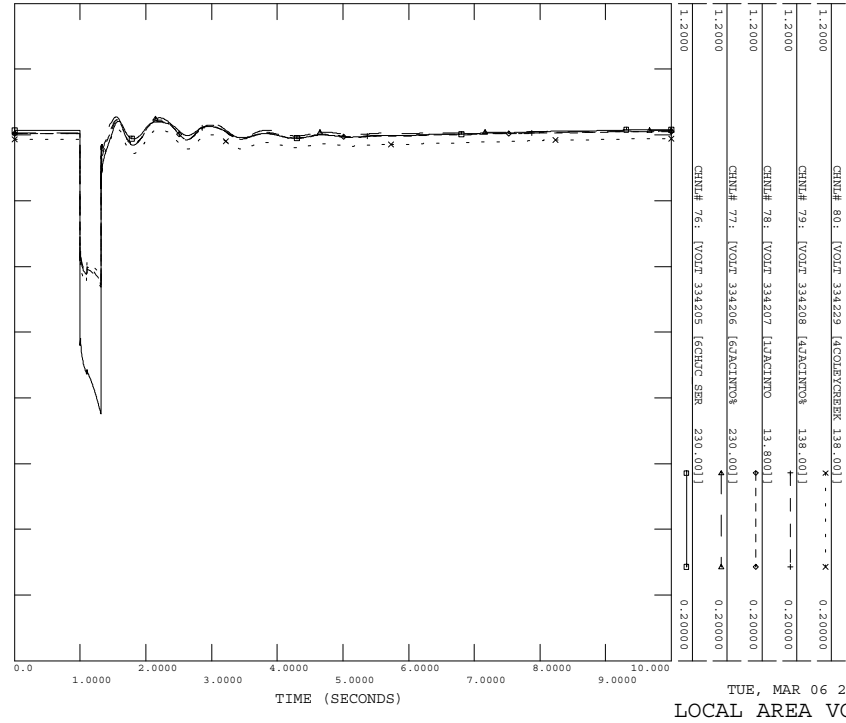
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



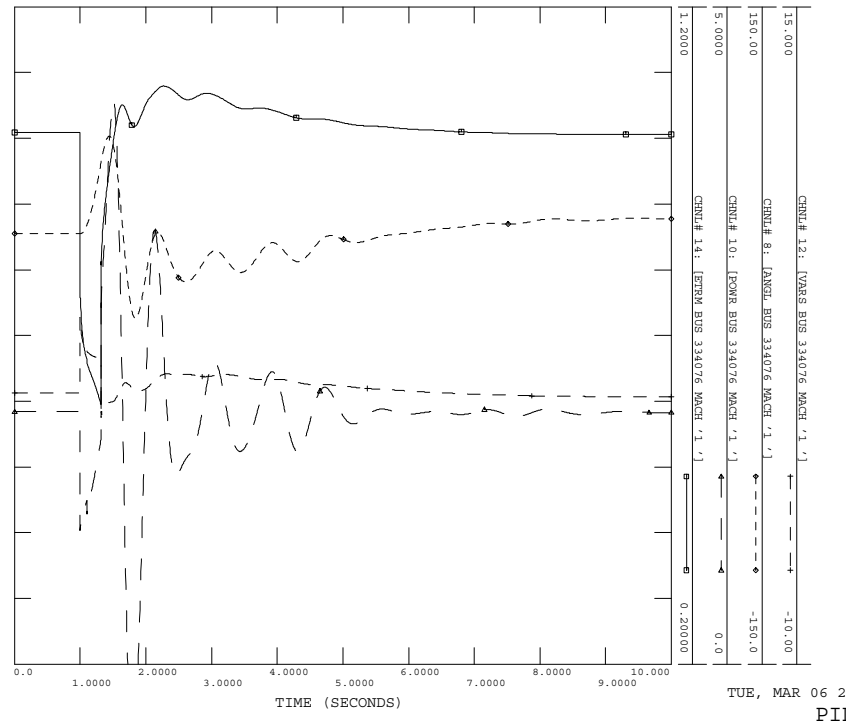
6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT



6+13CY SIG STOCKERK LEWIS CREEK - HUNTSVILLE 138 KV  
 TRIP LEWIS CREEK - HUNTSVILLE, 230/ 138 KV TRAF0  
 FILE: Fault-6A.OUT

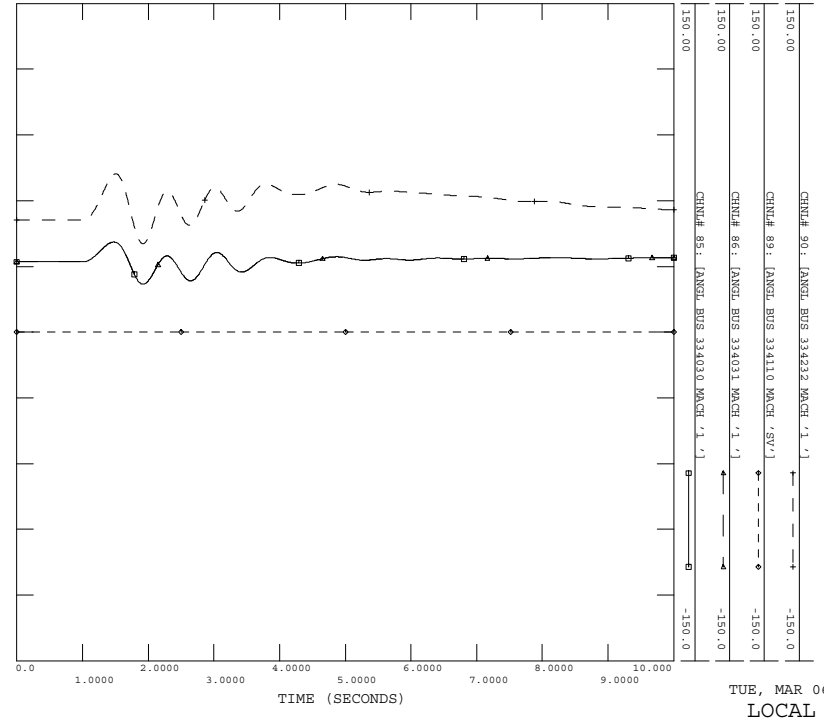


### **C.1.30 FAULT-7A**

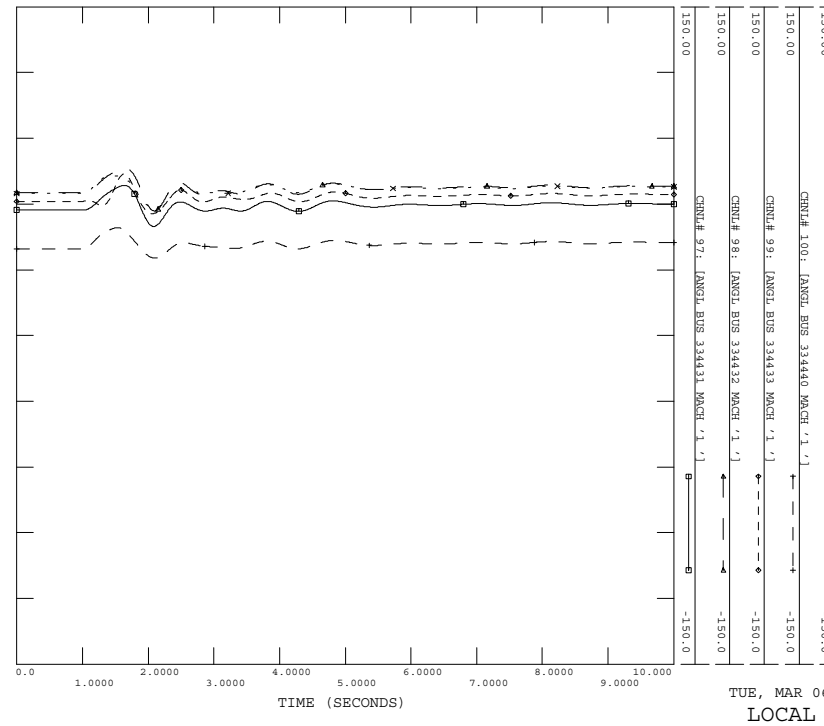
1 phase fault on the Lewis Creek 230/138 kV Auto trafo

- a) Apply fault at Lewis Creek 138kV bus
- b) Clear fault after 6 cycles by tripping the Lewis Creek 230/138 kV Auto trafo
- c) Breaker (1615) Stuck at Lewis Creek
- d) Clear fault after 13 cycles by tripping the Lewis Creek – Huntsville 138 kV

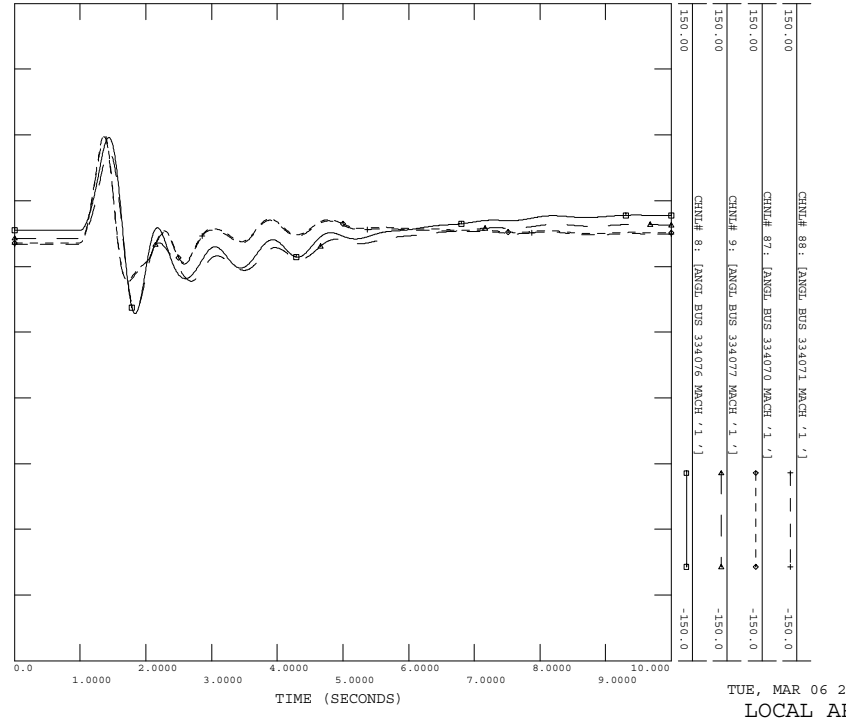
6+130Y SLG STUCKERK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/138 KV TRAPO, LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



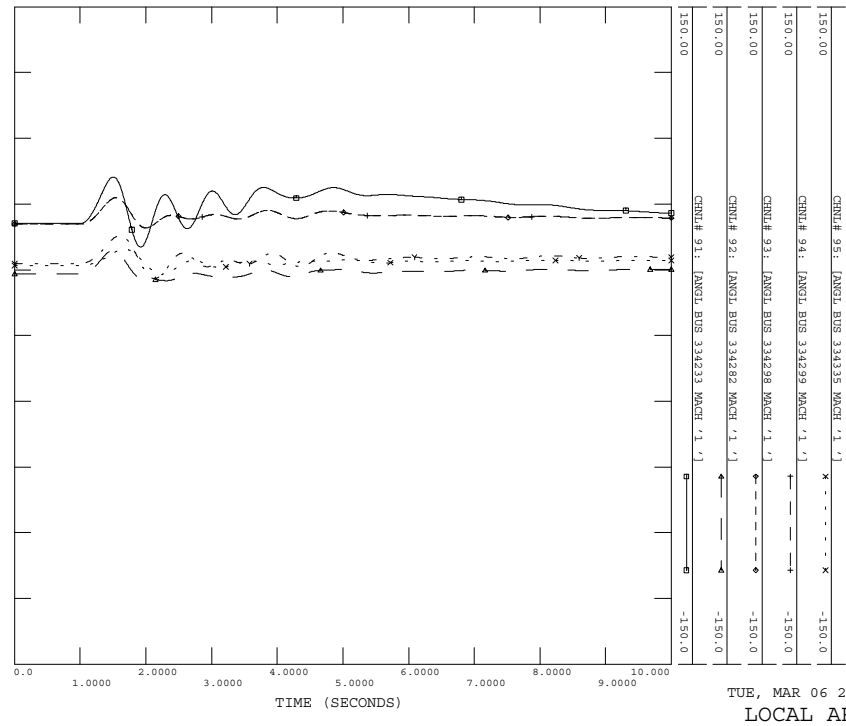
6+130Y SLG STUCKERK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/138 KV TRAPO, LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



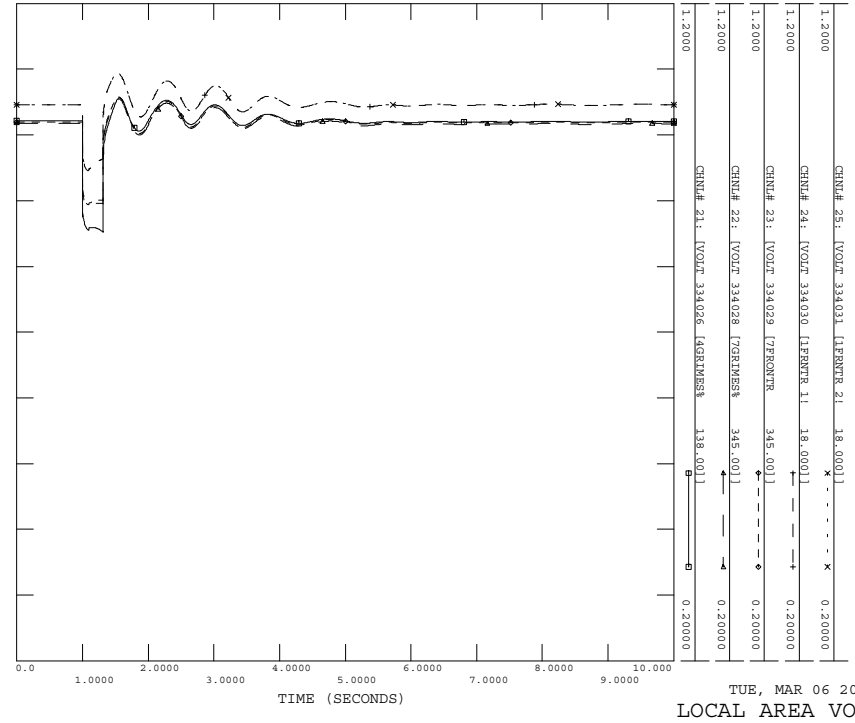
6+130Y SLG STUCKERK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/138 KV TRAPO, LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



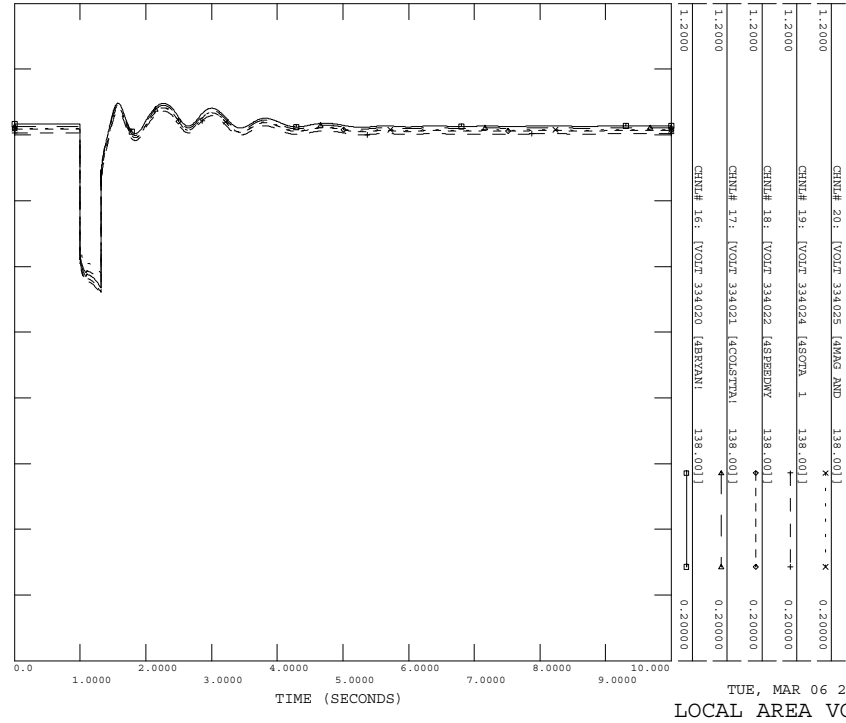
6+130Y SLG STUCKERK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/138 KV TRAPO, LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



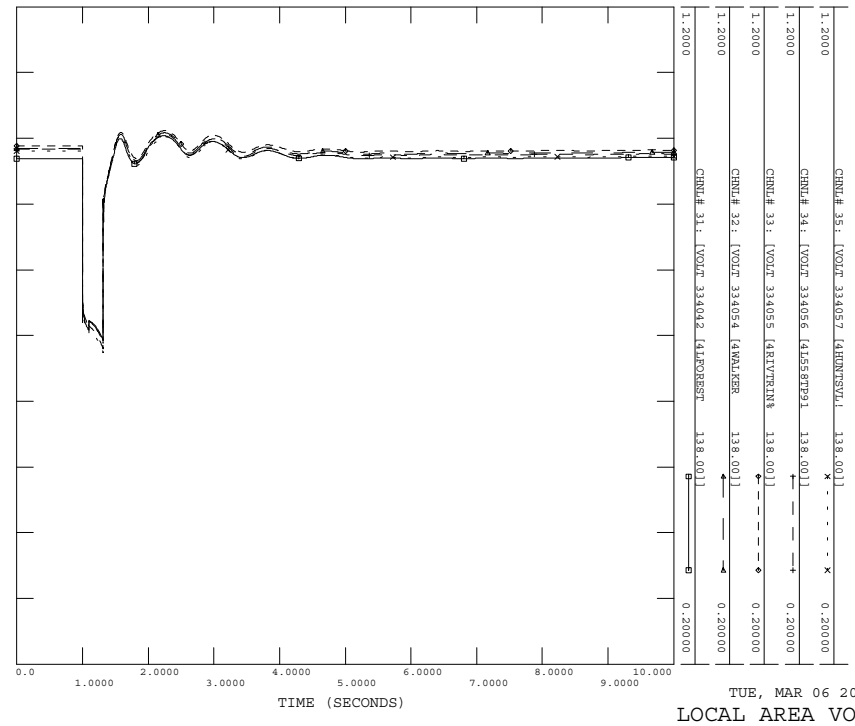
6+13CY SLG STUCKERK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



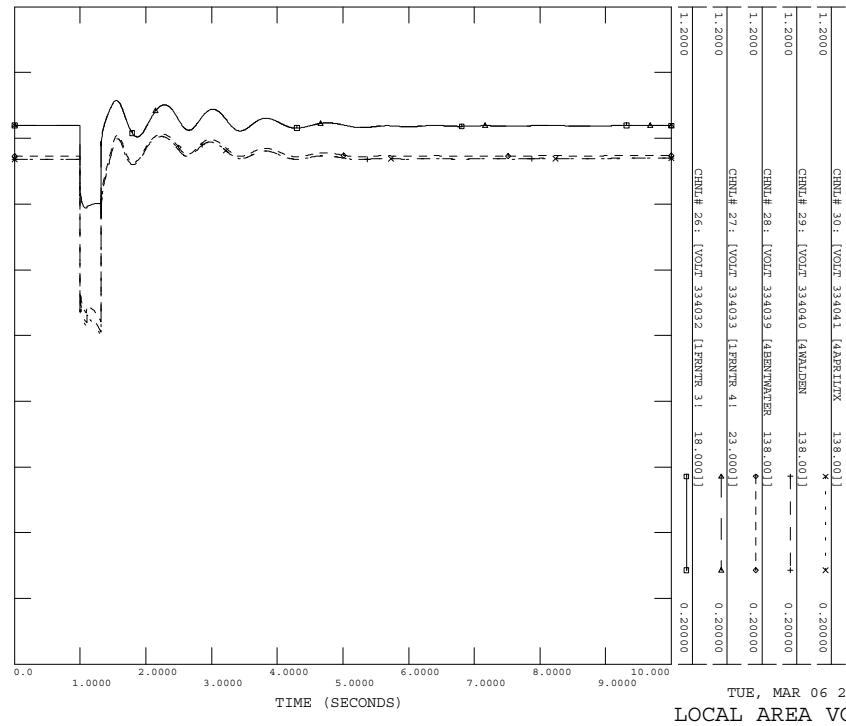
6+13CY SLG STUCKERK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



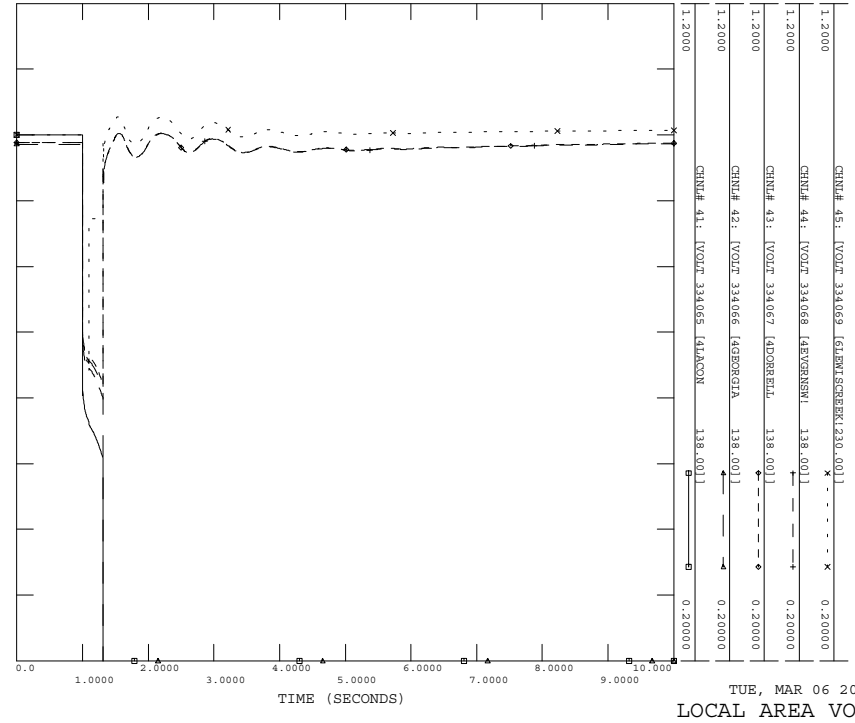
6+13CY SLG STUCKERK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



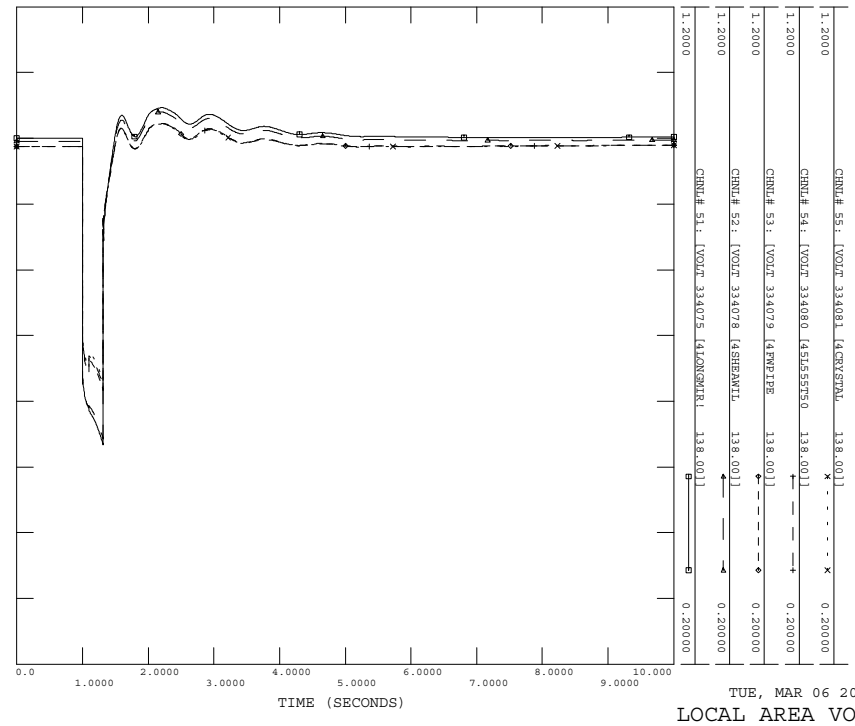
6+13CY SLG STUCKERK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



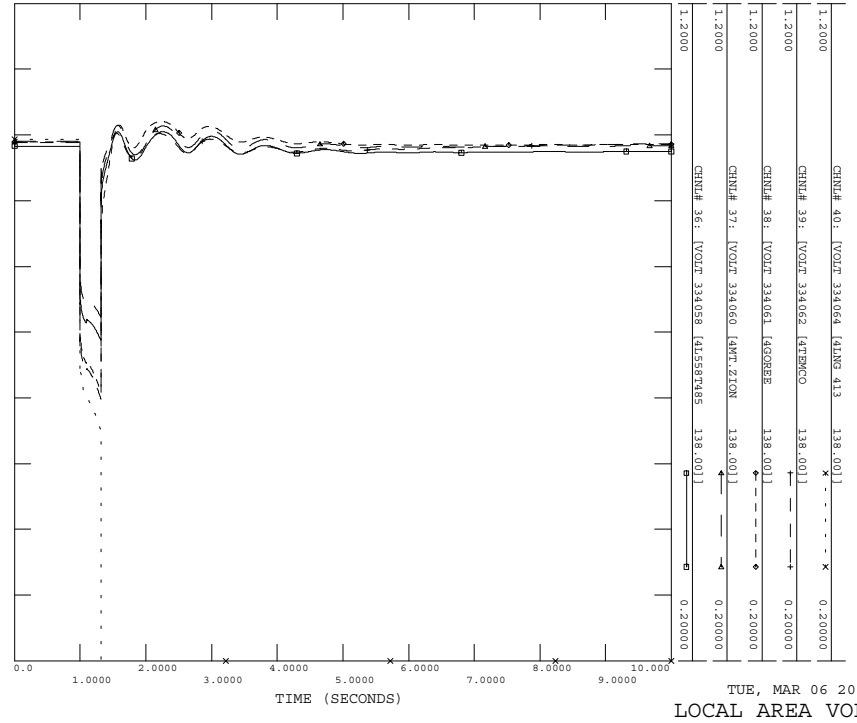
6+130Y SLG STUCKBRK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



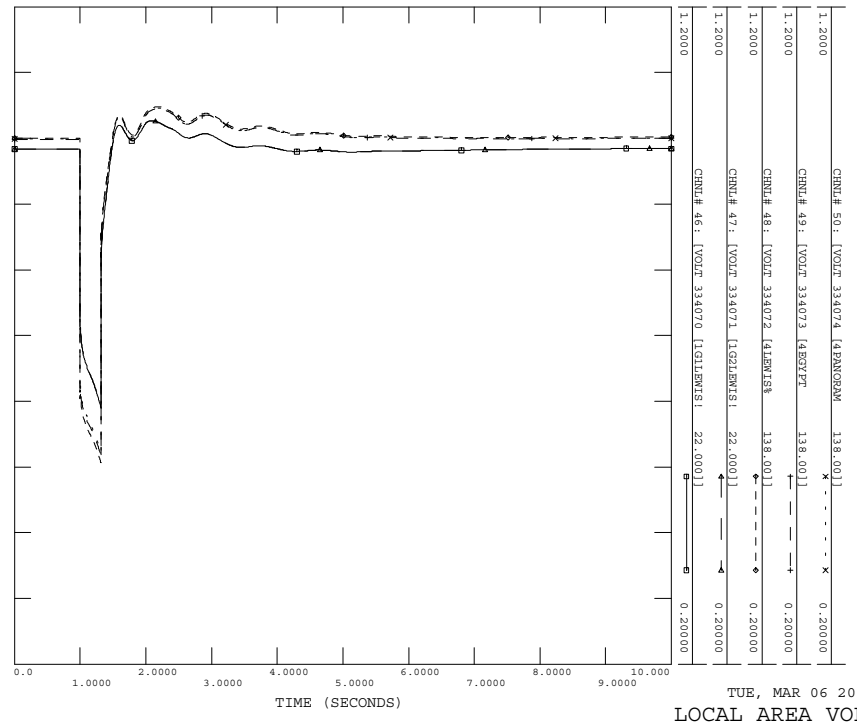
6+130Y SLG STUCKBRK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



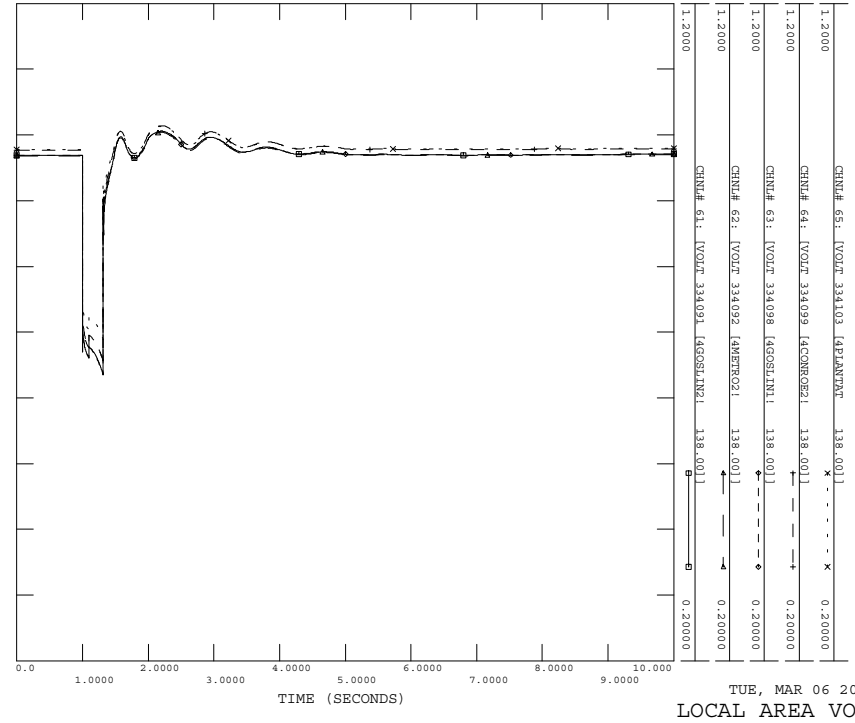
6+130Y SLG STUCKBRK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



6+130Y SLG STUCKBRK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT

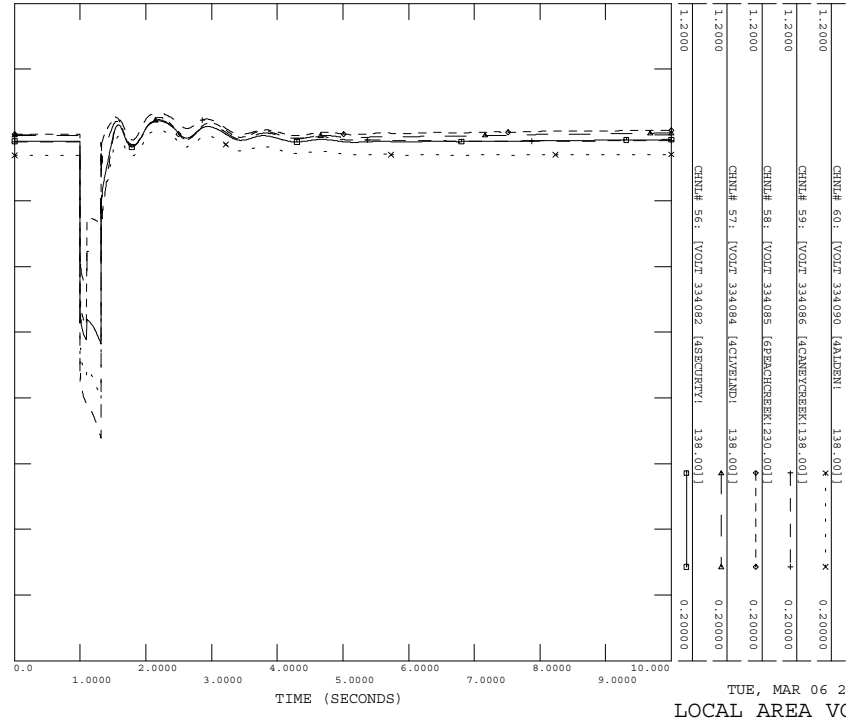


6+13CY SLG STUCKBRK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



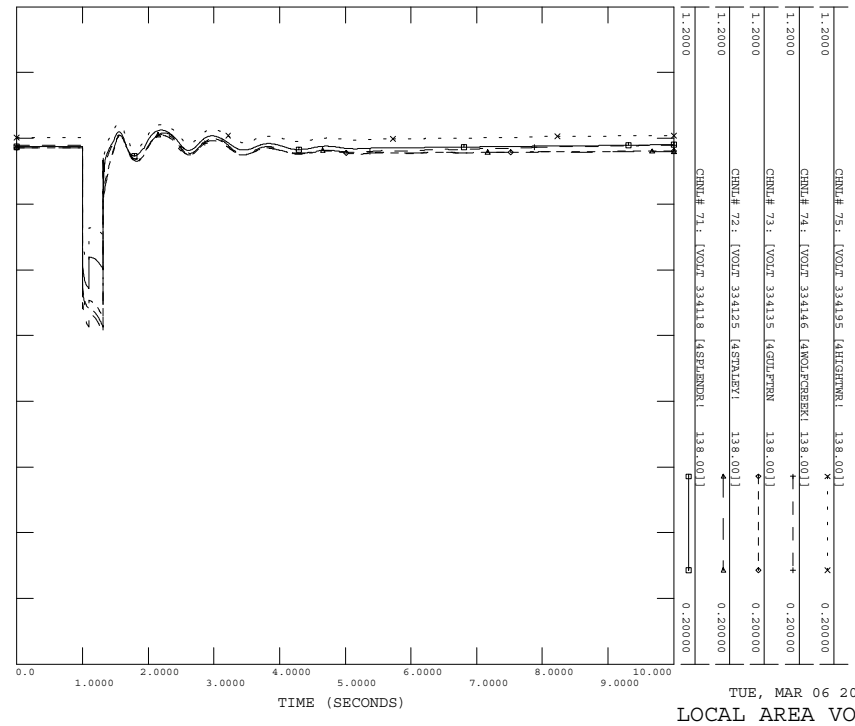
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SLG STUCKBRK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



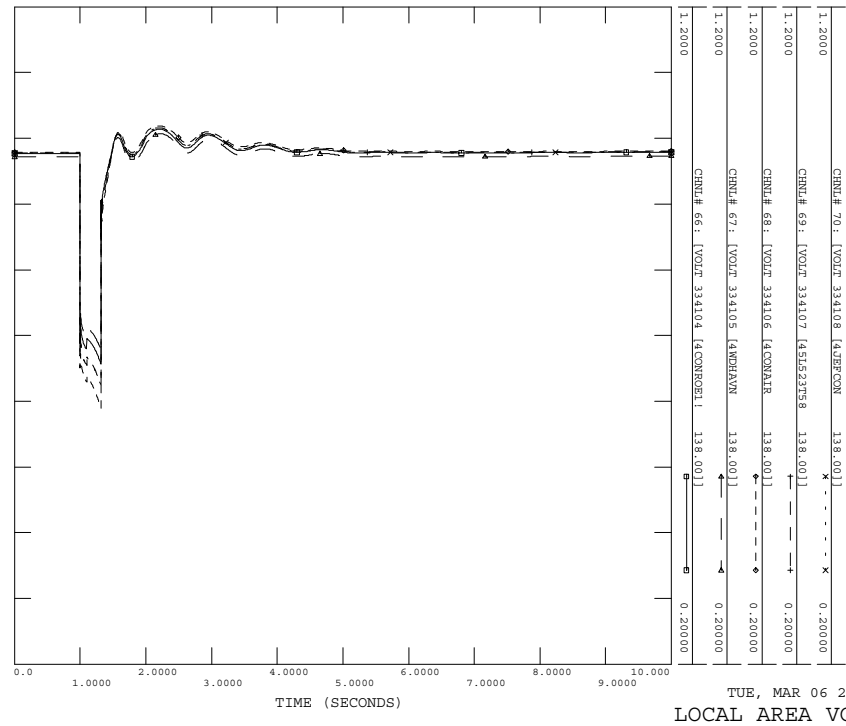
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SLG STUCKBRK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



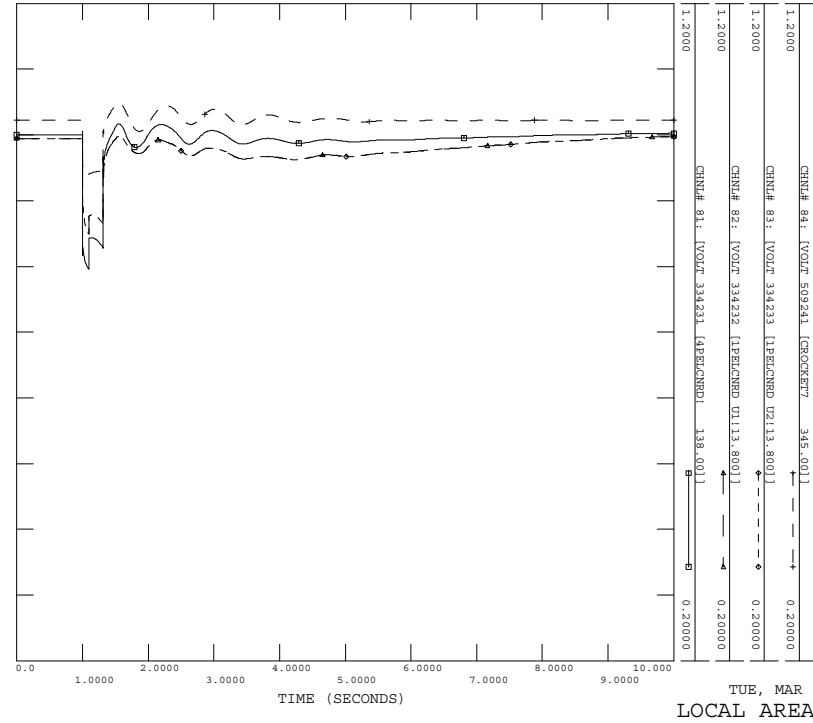
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SLG STUCKBRK LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT

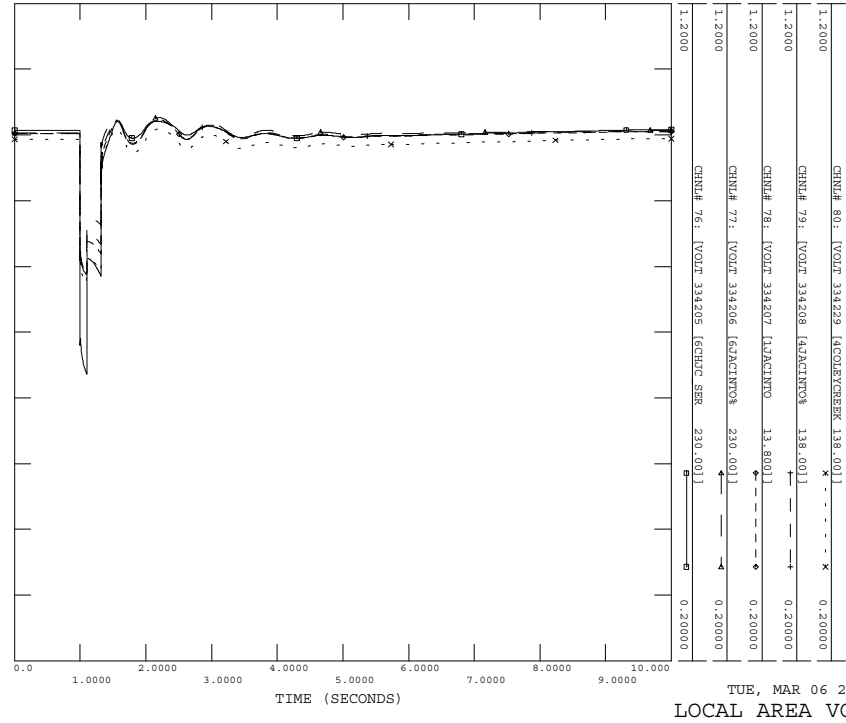


TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

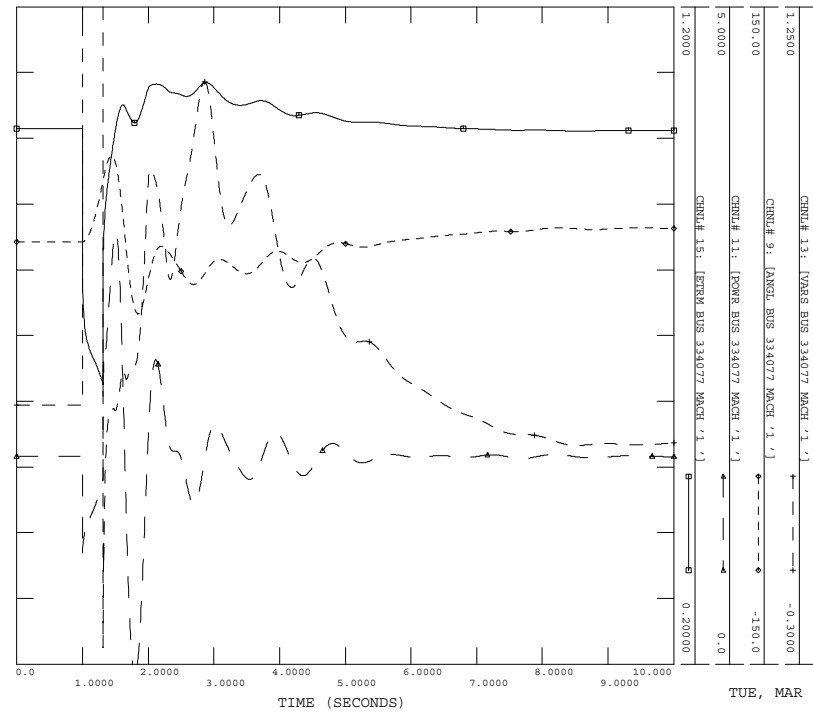
6+130Y SLG STUCKERR LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



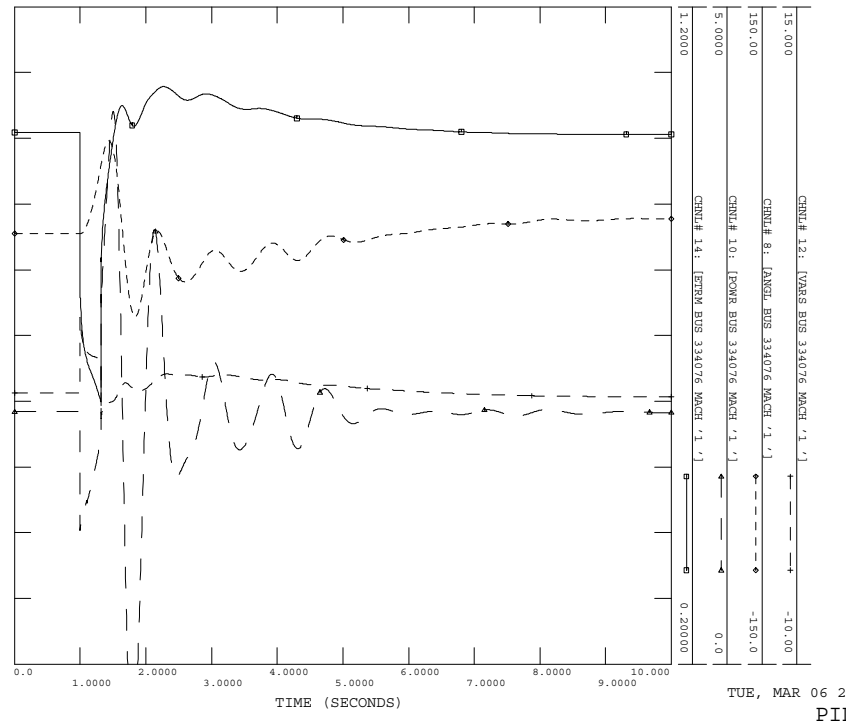
6+130Y SLG STUCKERR LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



6+130Y SLG STUCKERR LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



6+130Y SLG STUCKERR LEWIS CREEK 230/138 KV AUTO TRAPO  
 TRIP 230/ 138 KV TRAPO , LEWIS CREEK - HUNTSVILLE 138 KV  
 FILE: Fault-7A.OUT



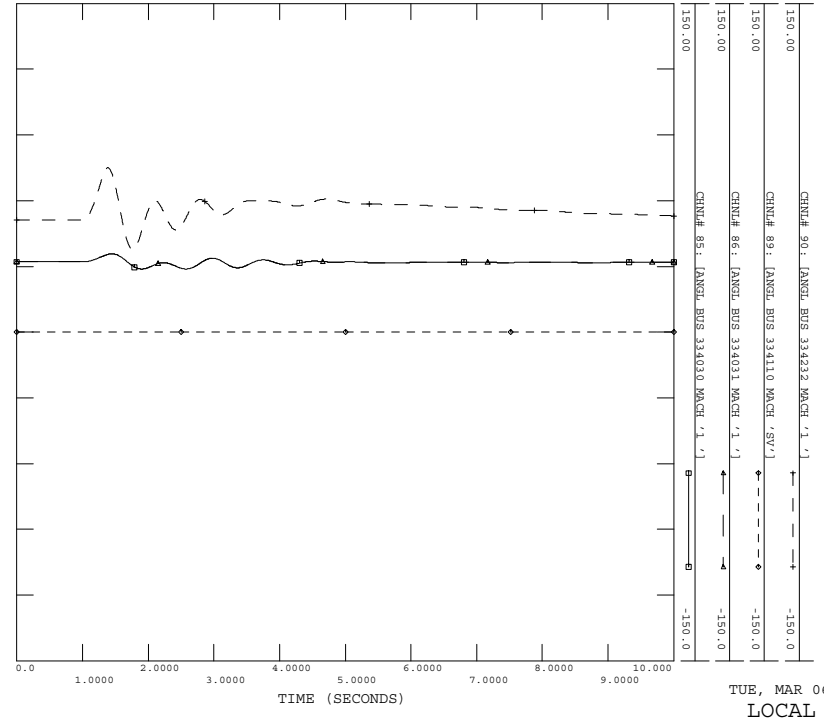


### **C.1.31      FAULT-8A**

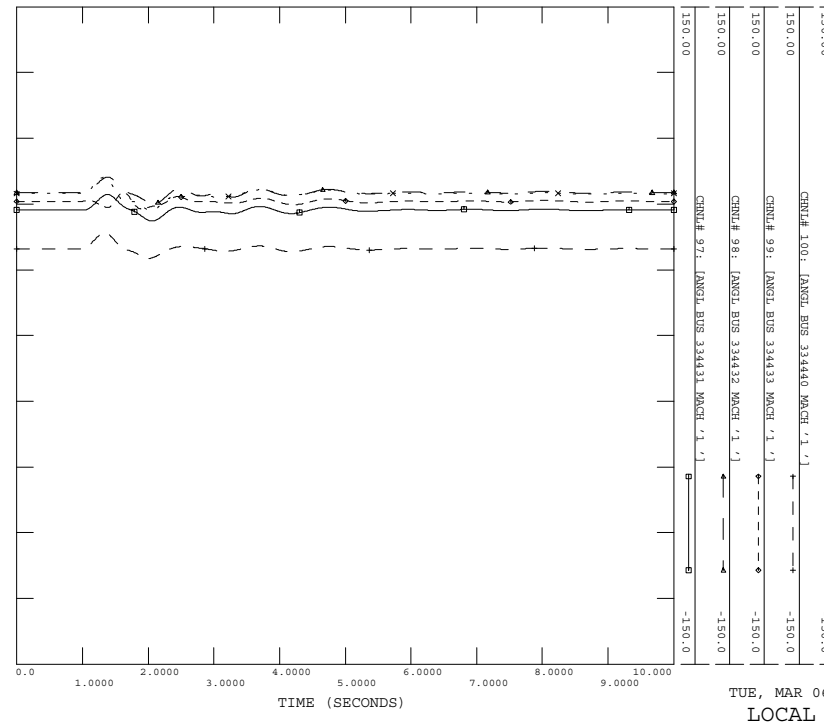
1 phase fault on the Jacinto – Splendora 138 kV

- a) Apply fault at Jacinto 138kV bus
- b) Clear fault after 6 cycles by tripping the Jacinto – Splendora 138 kV
- c) Breaker (16505) Stuck at Jacinto
- d) Clear fault after 13 cycles by tripping the Jacinto – Hightower 138 kV

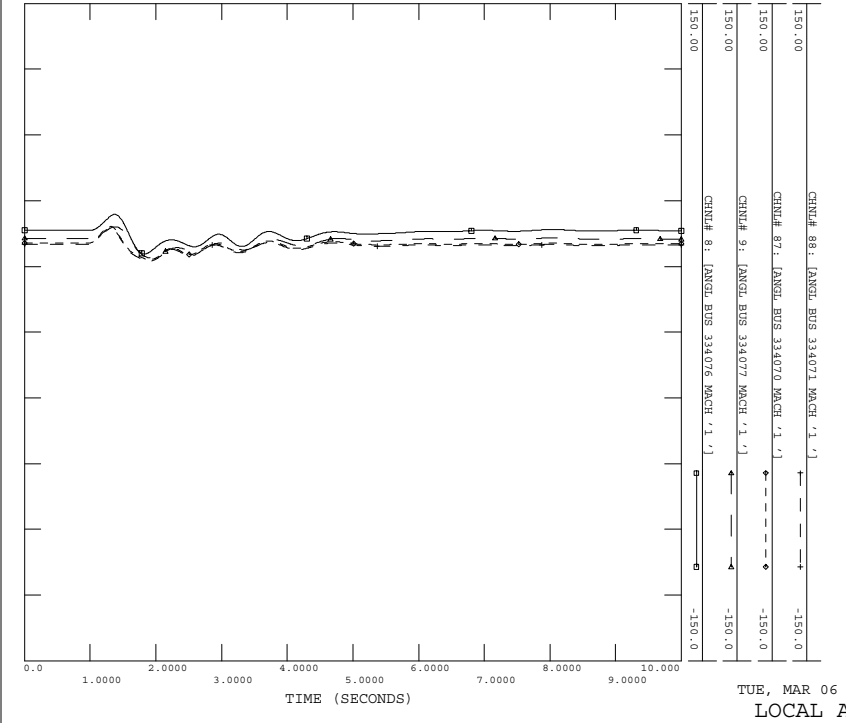
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



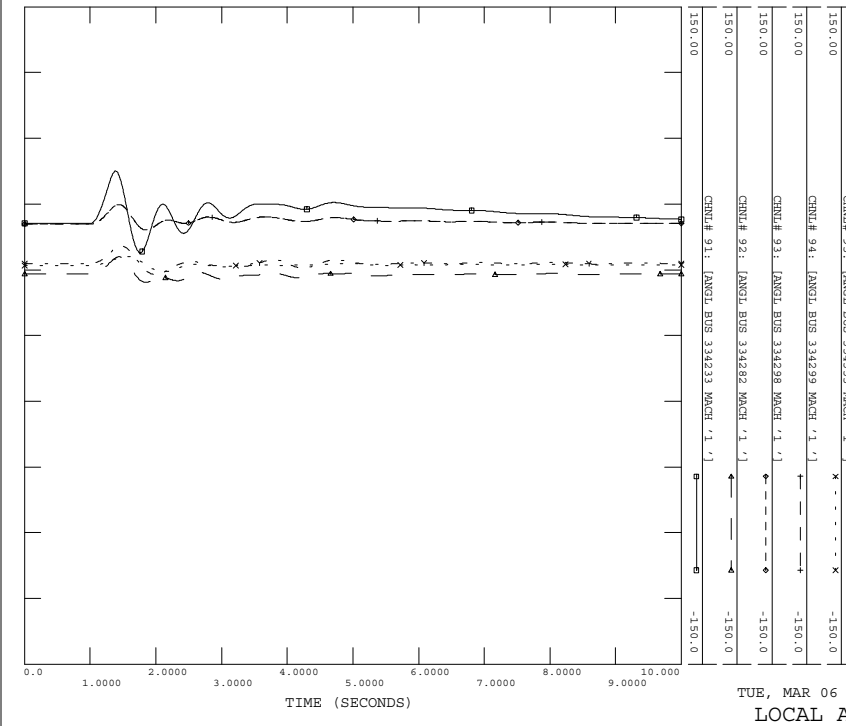
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



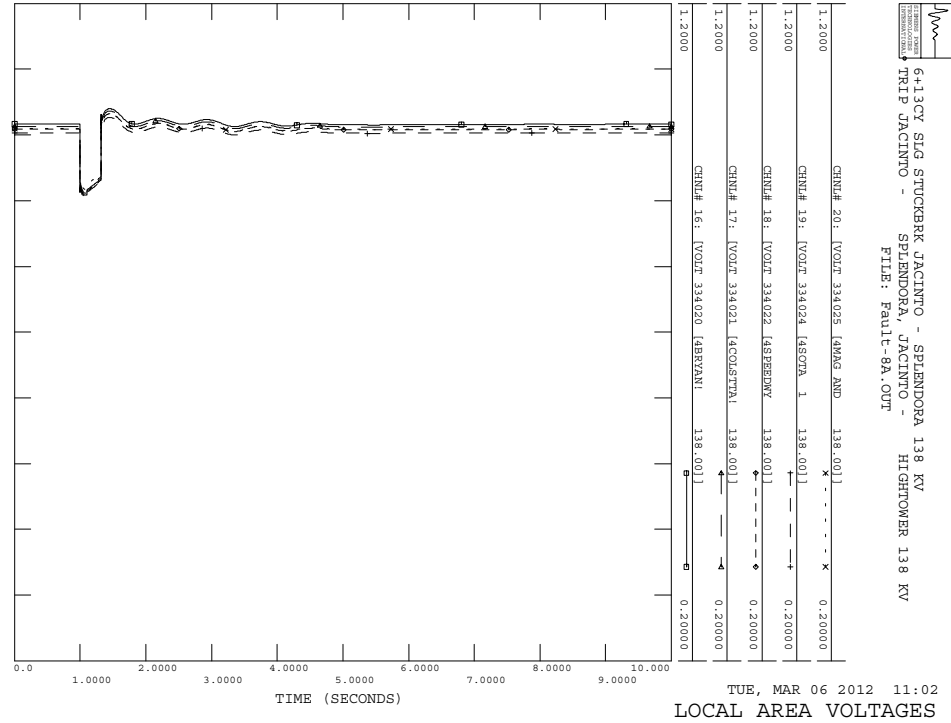
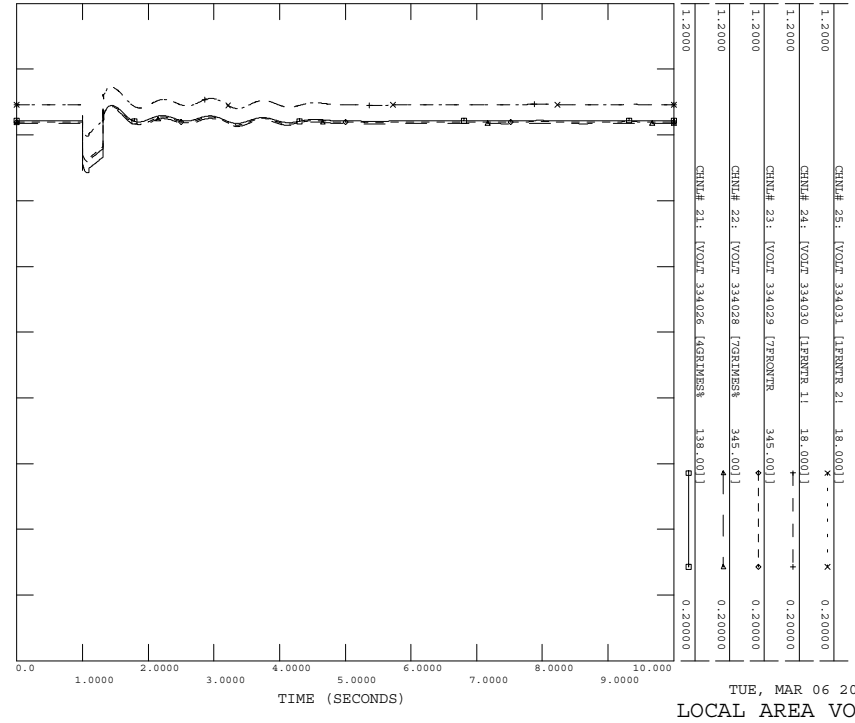
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



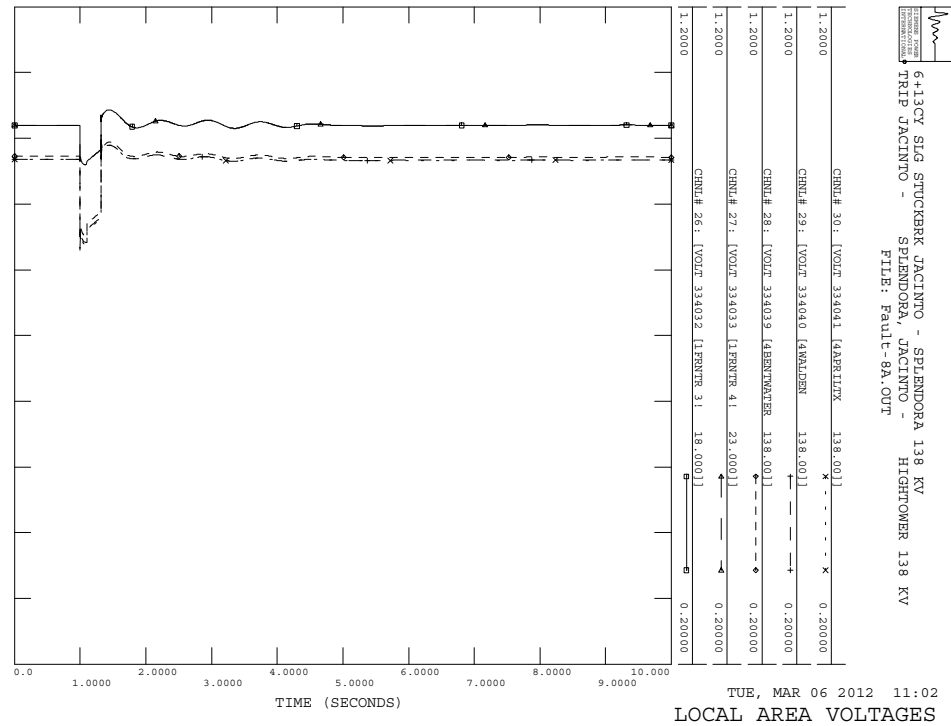
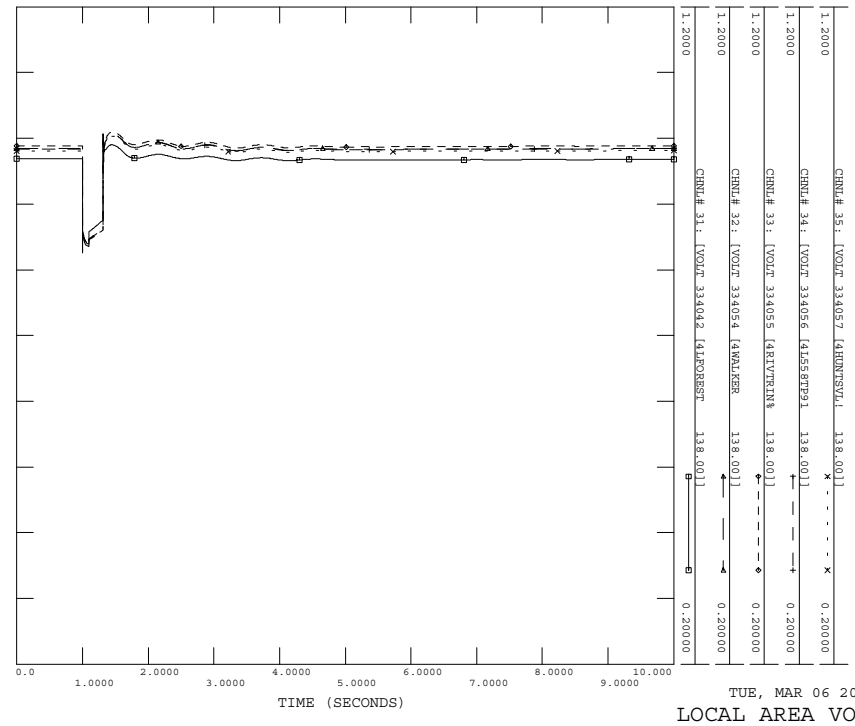
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



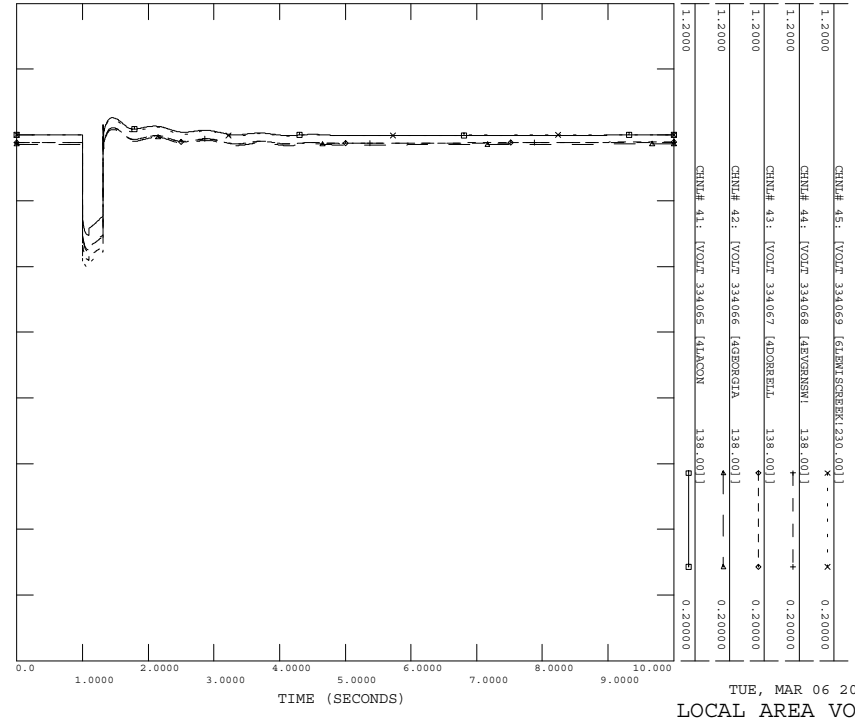
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



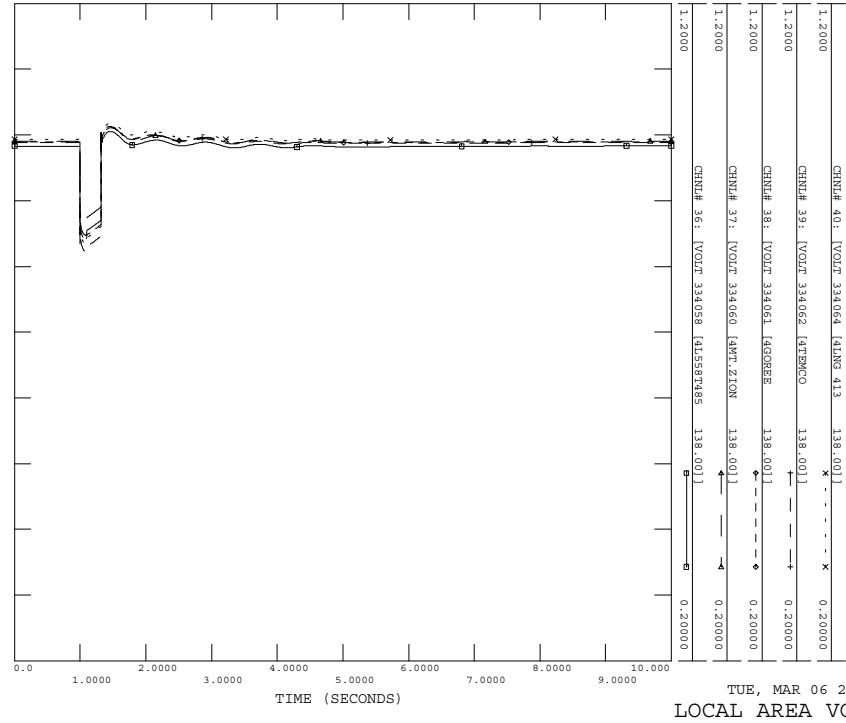
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



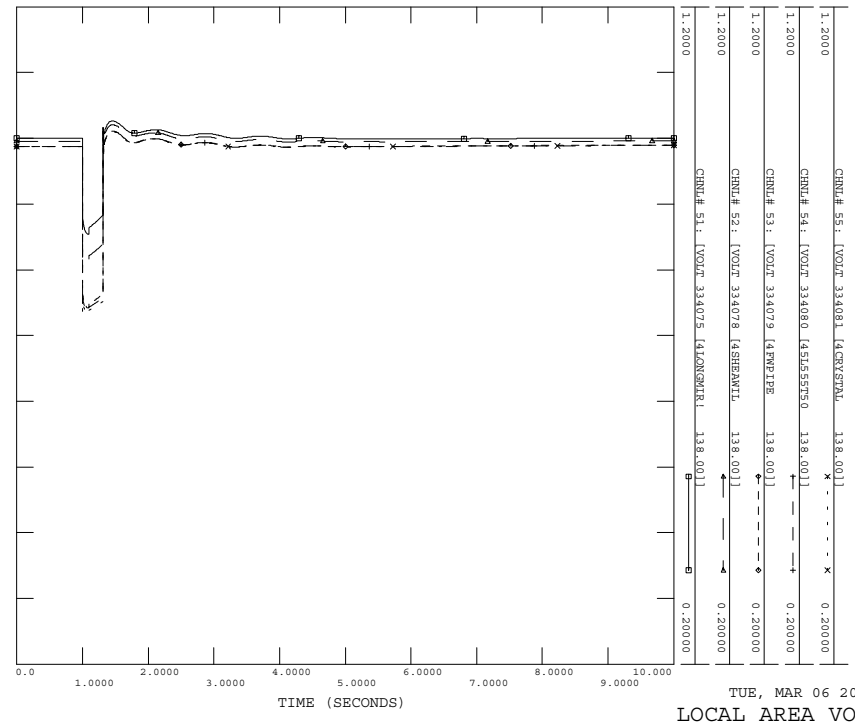
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



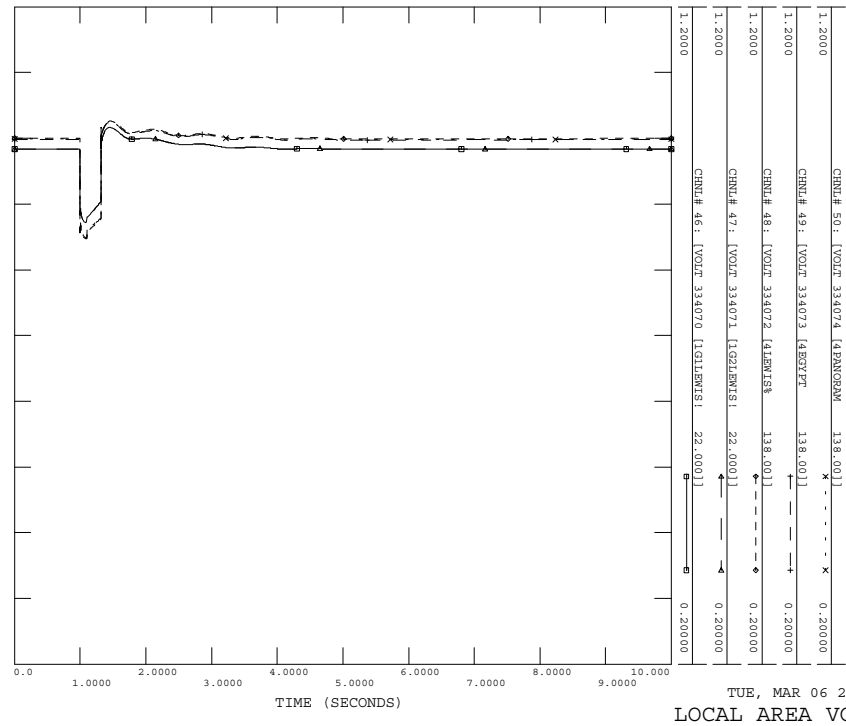
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



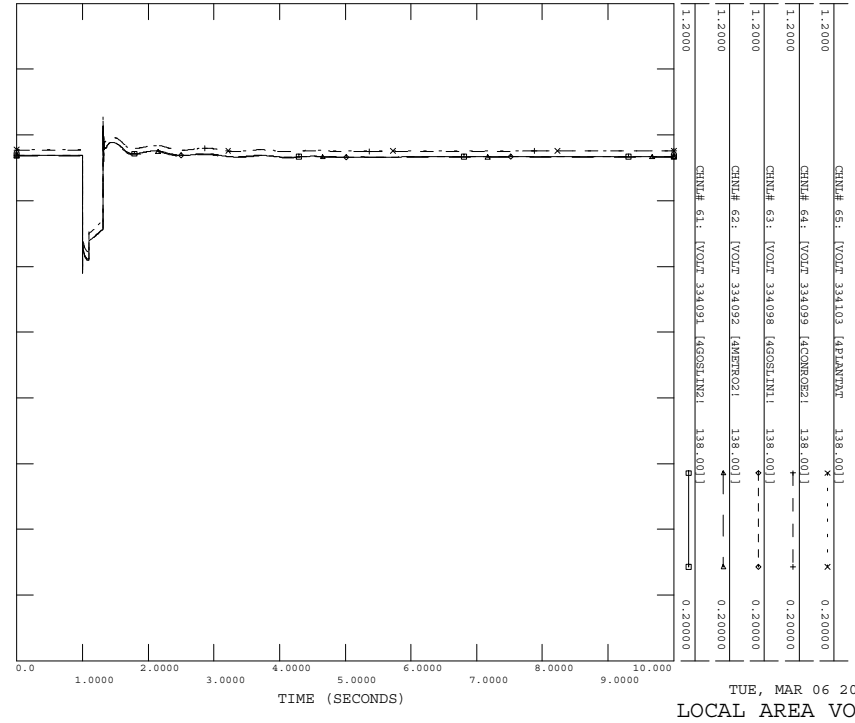
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



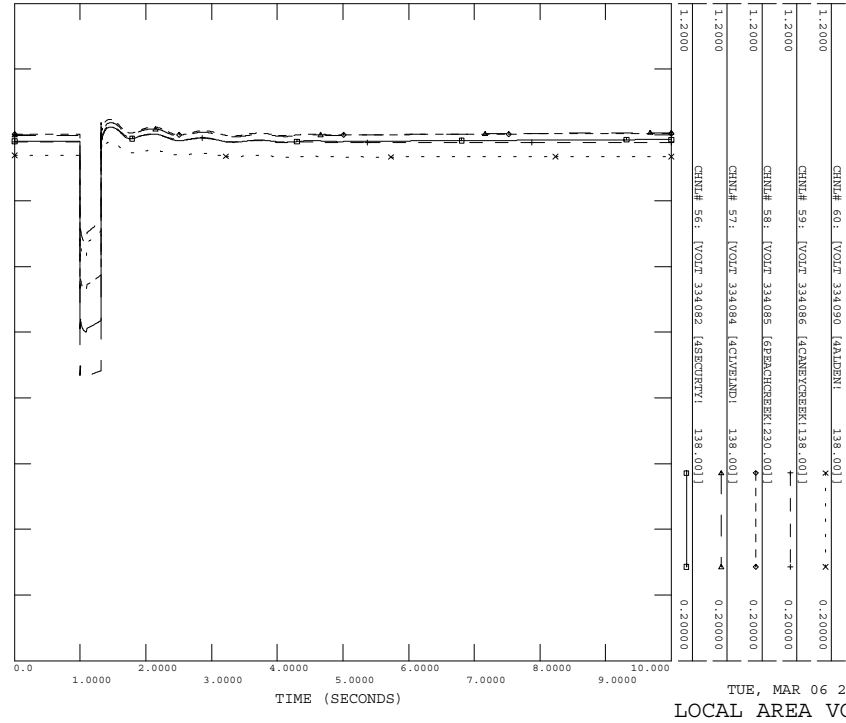
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



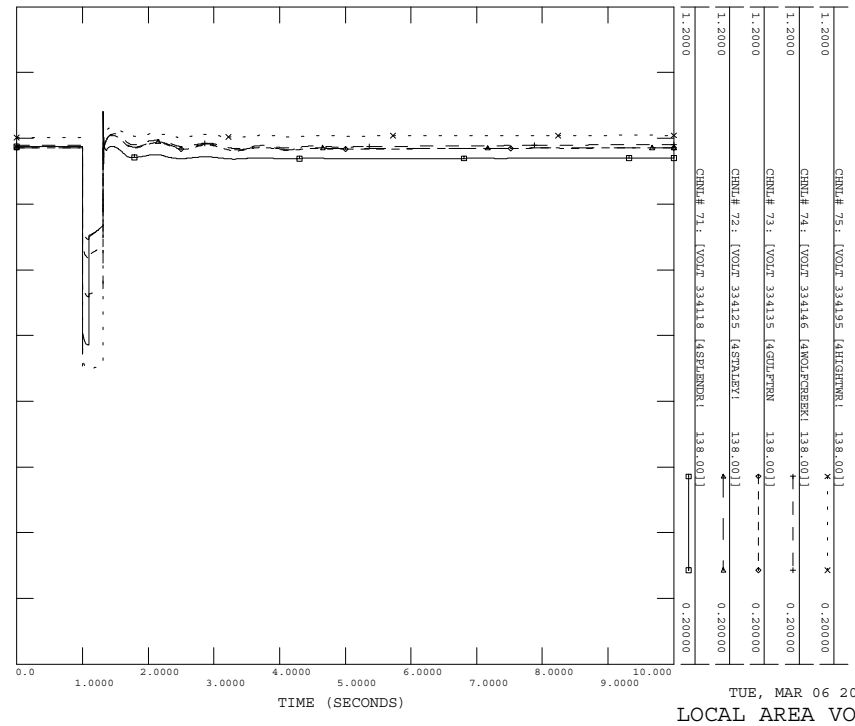
6+13CY SIG STUCKBRK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



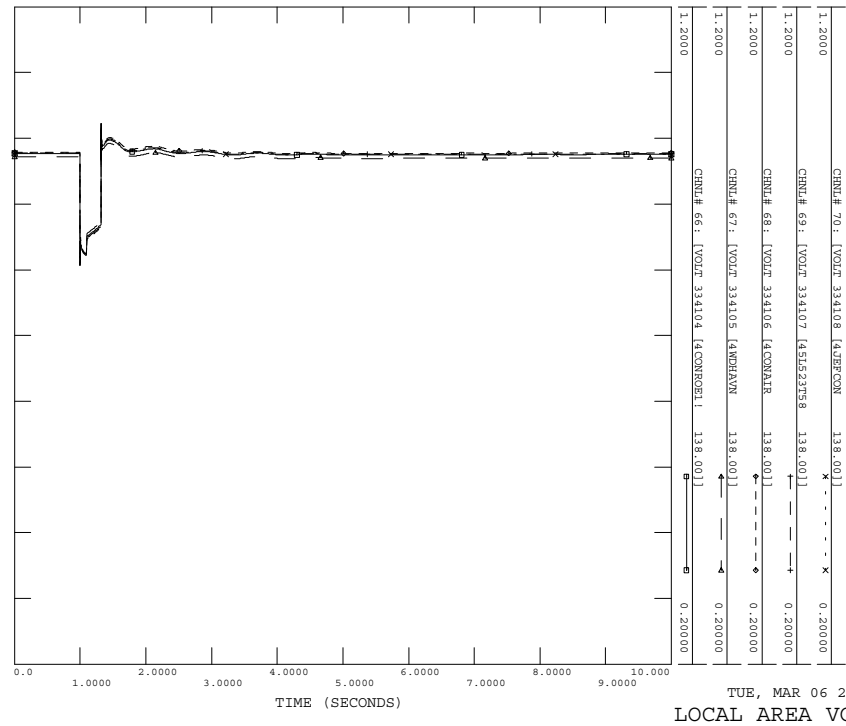
6+13CY SIG STUCKBRK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



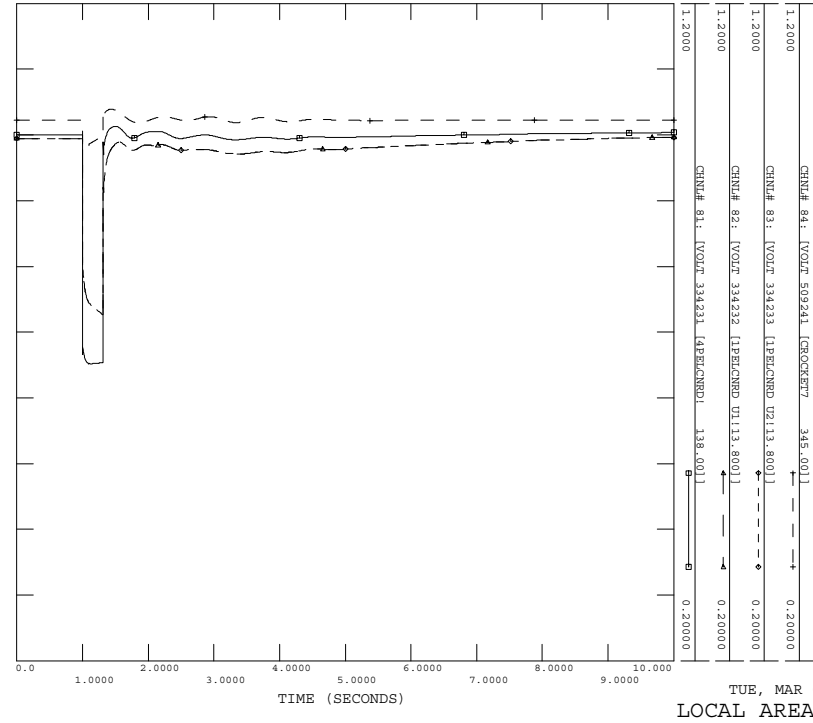
6+13CY SIG STUCKBRK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



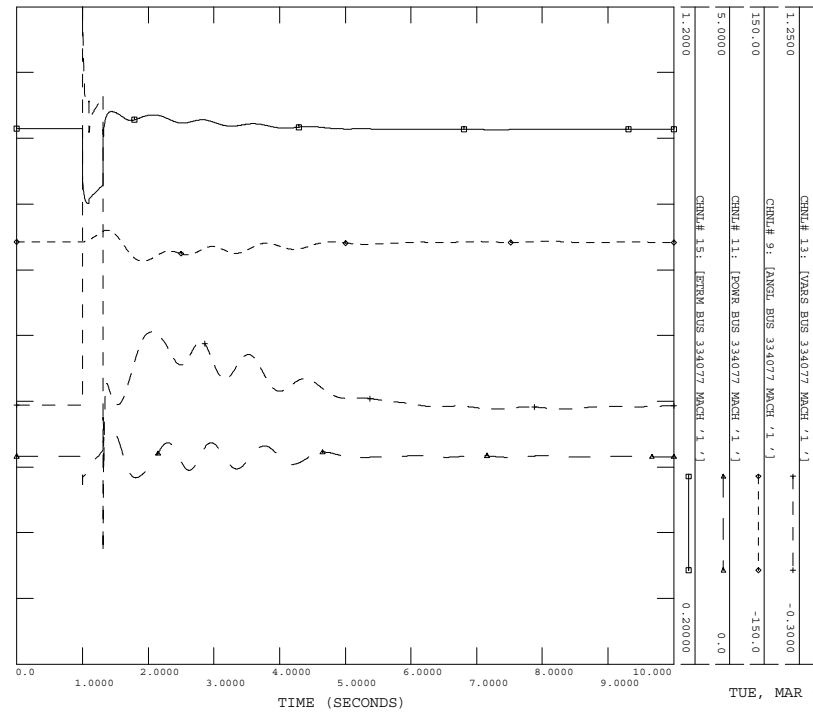
6+13CY SIG STUCKBRK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



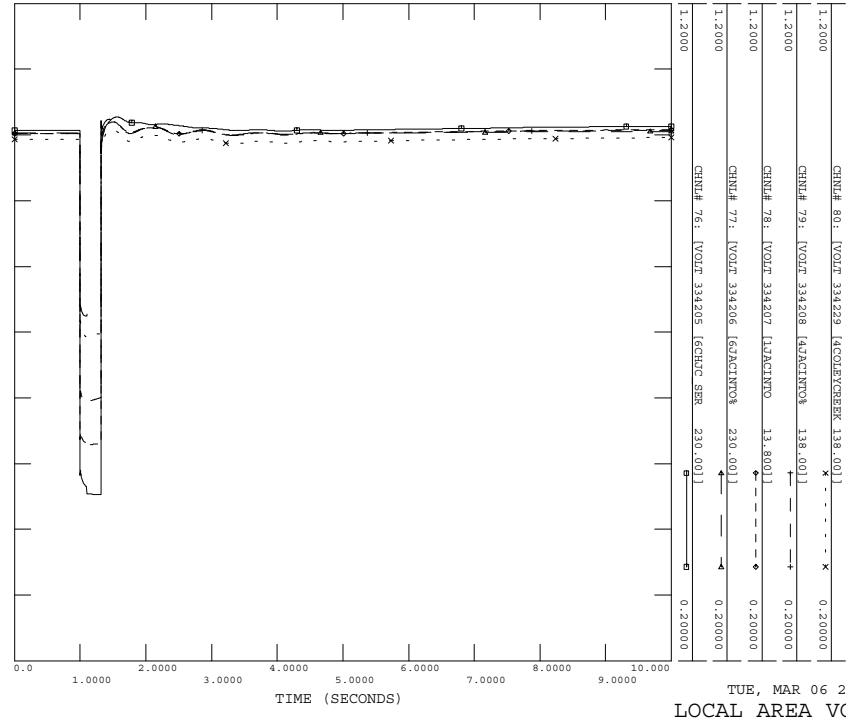
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



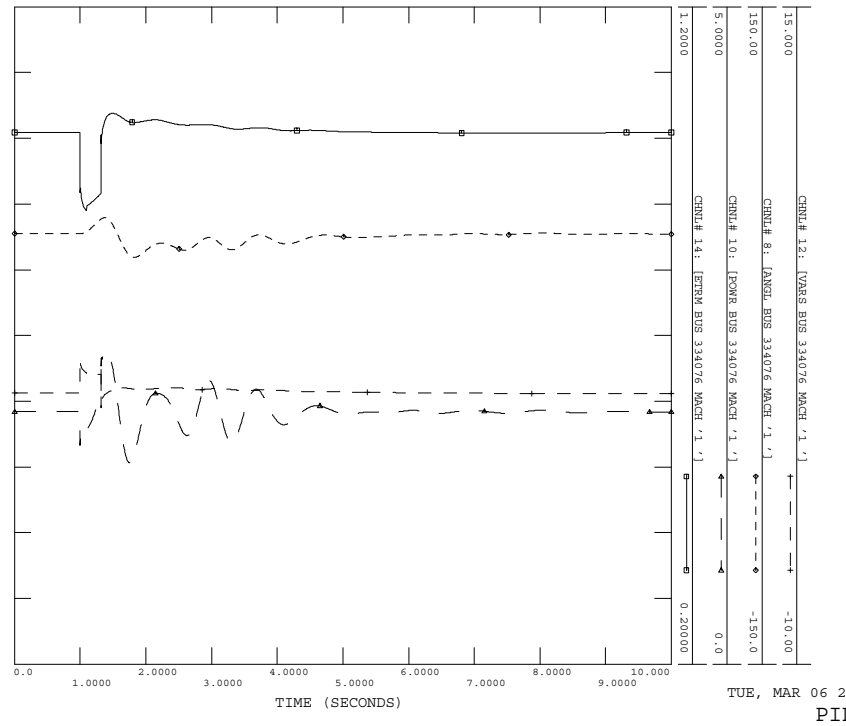
6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT



6+13CY SIG STUCKERK JACINTO - SPLENDORA 138 KV  
 TRIP JACINTO - SPLENDORA, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-8A.OUT

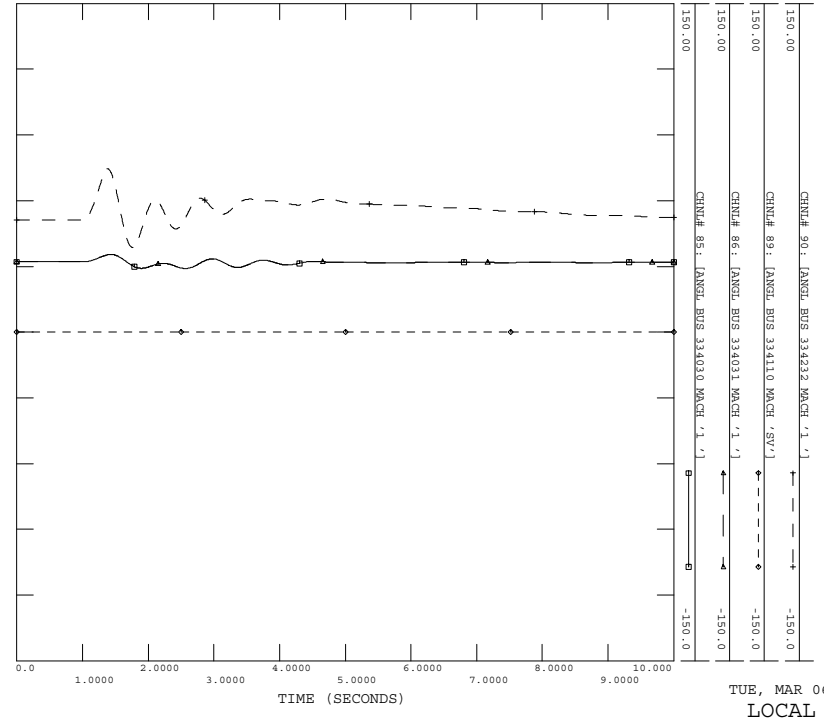


### **C.1.32 FAULT-9A**

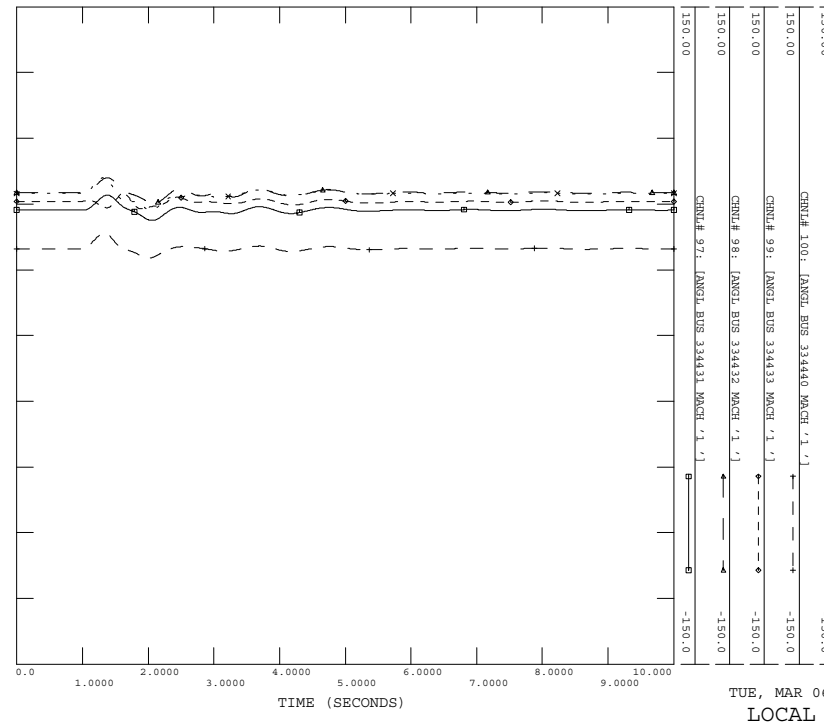
1 phase fault on the Jacinto – Cleveland 138 kV

- a) Apply fault at Jacinto 138kV bus
- b) Clear fault after 6 cycles by tripping the Jacinto – Cleveland 138 kV
- c) Breaker (16515) Stuck at Jacinto
- d) Clear fault after 13 cycles by tripping the Jacinto – Hightower 138 kV

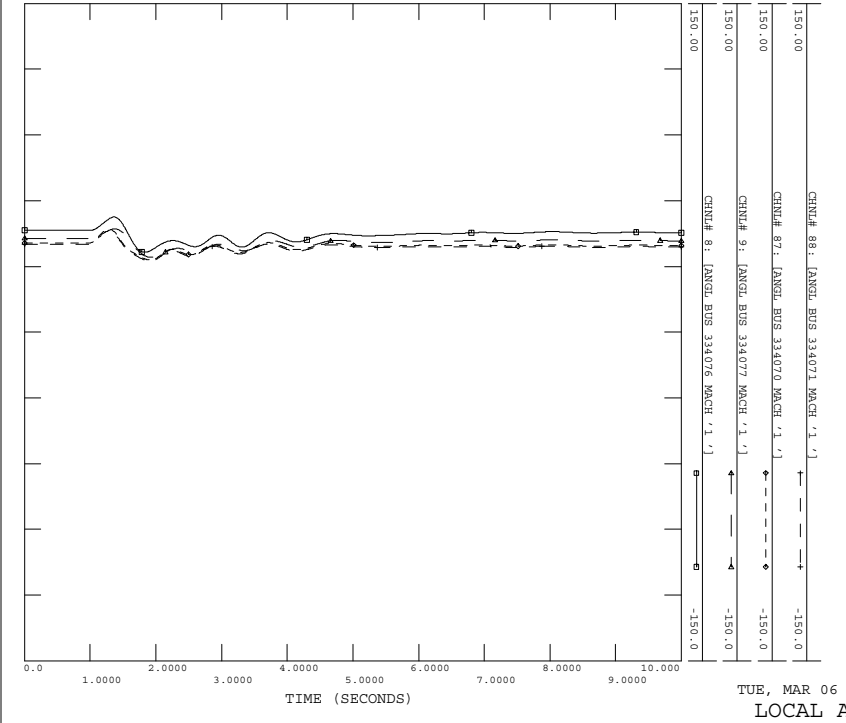
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



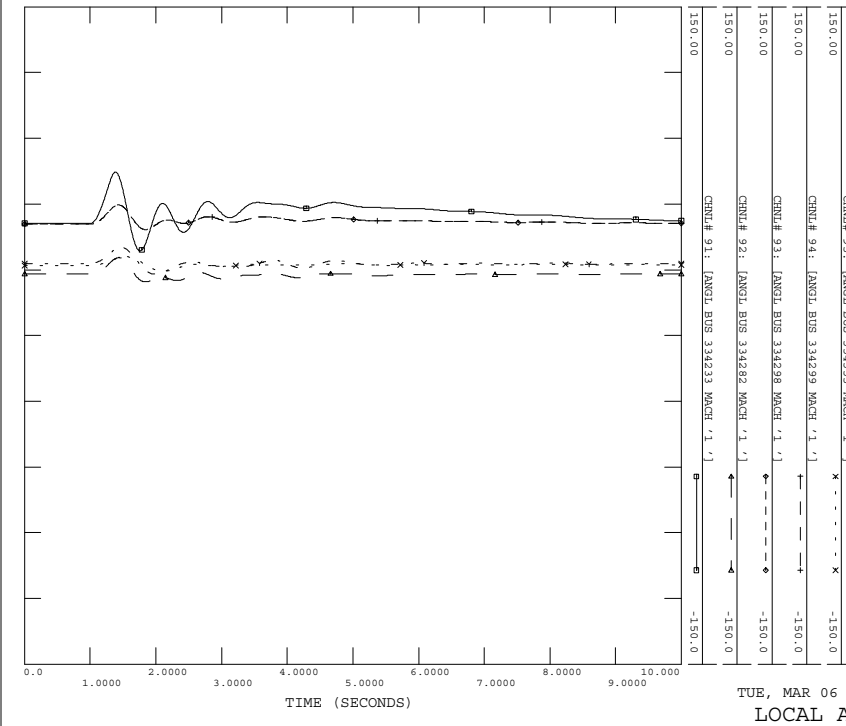
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT

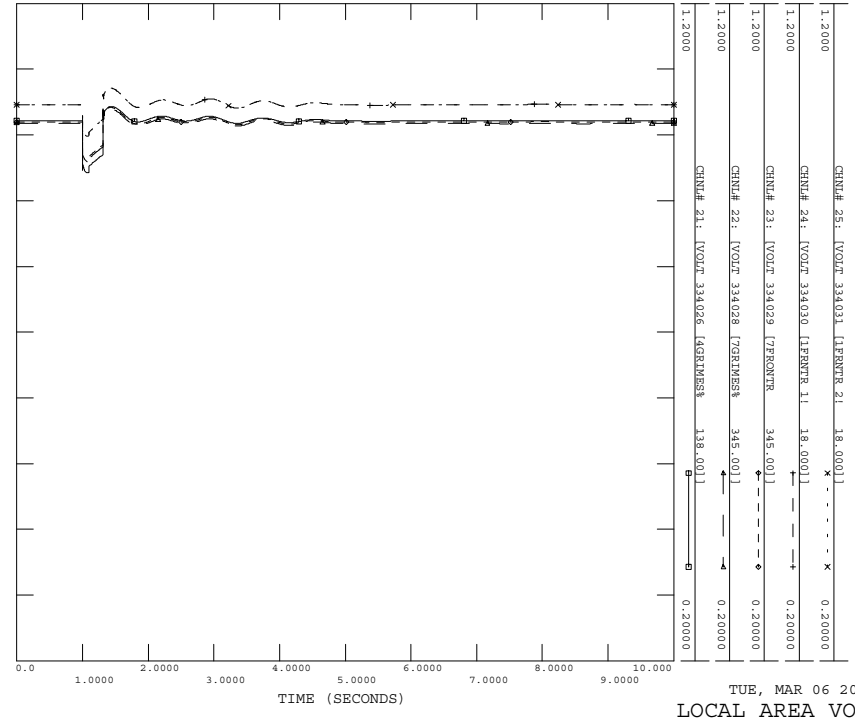


6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT

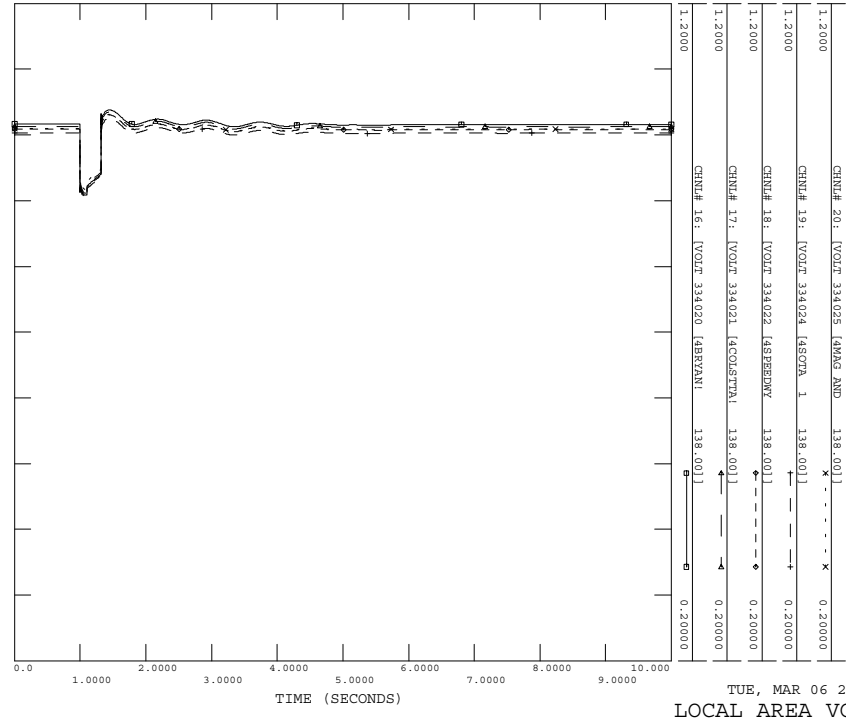




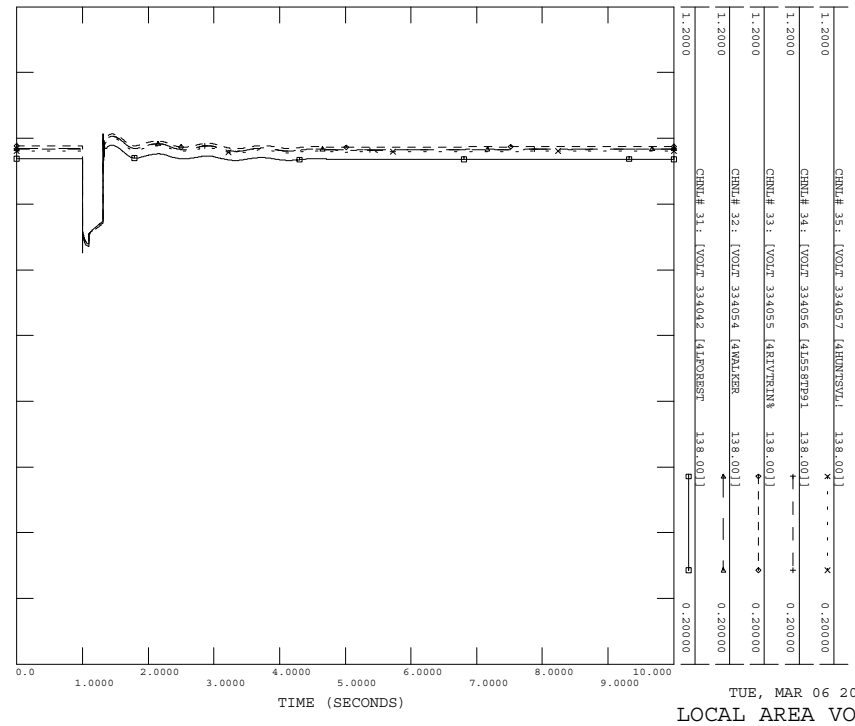
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



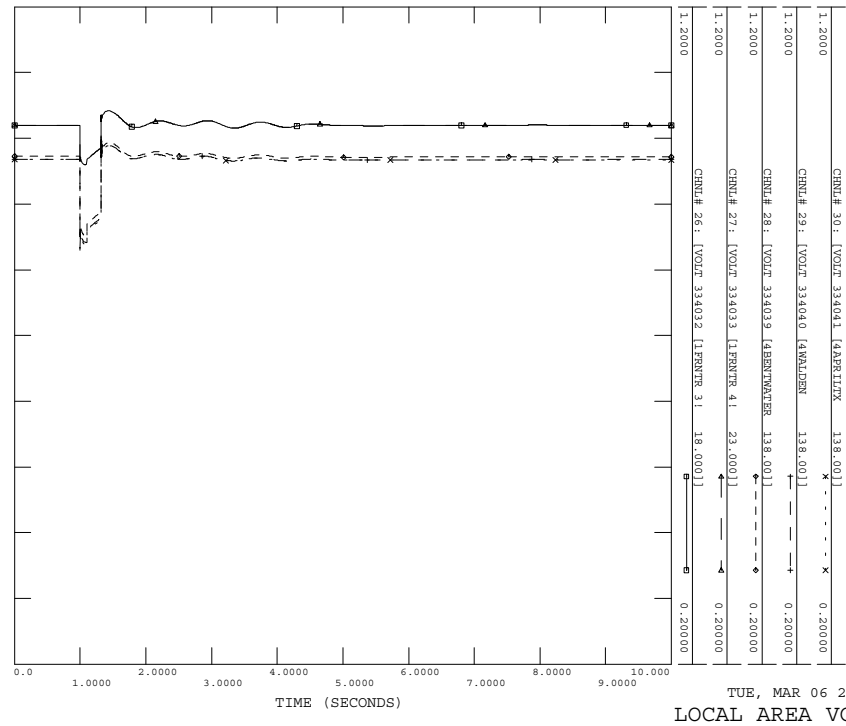
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



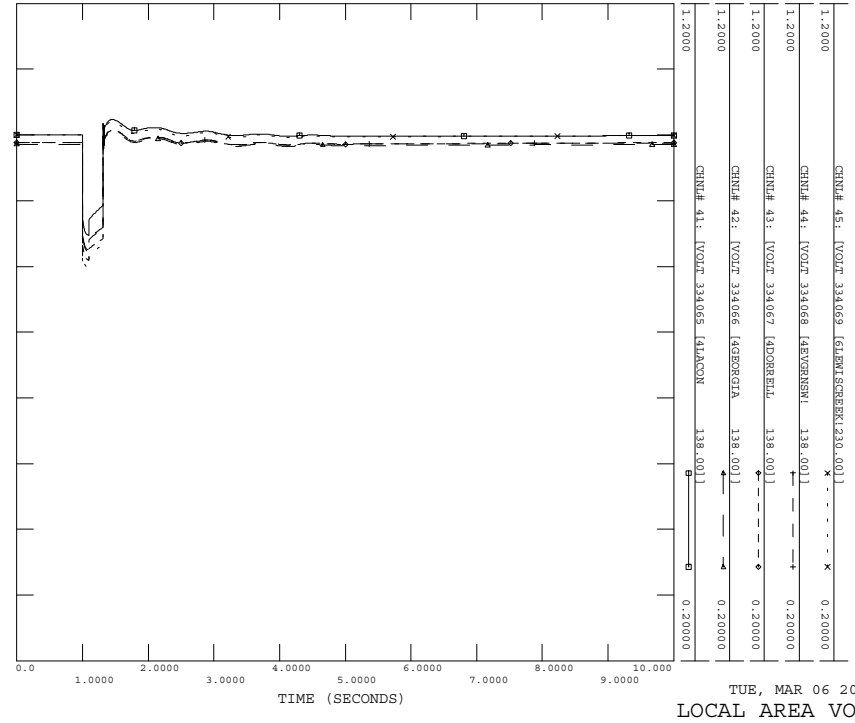
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



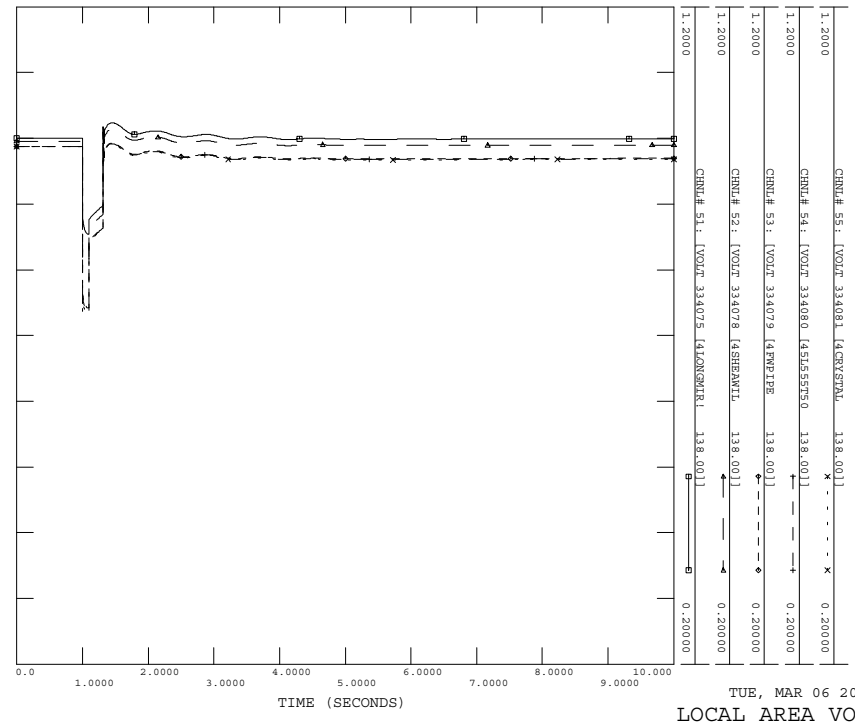
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



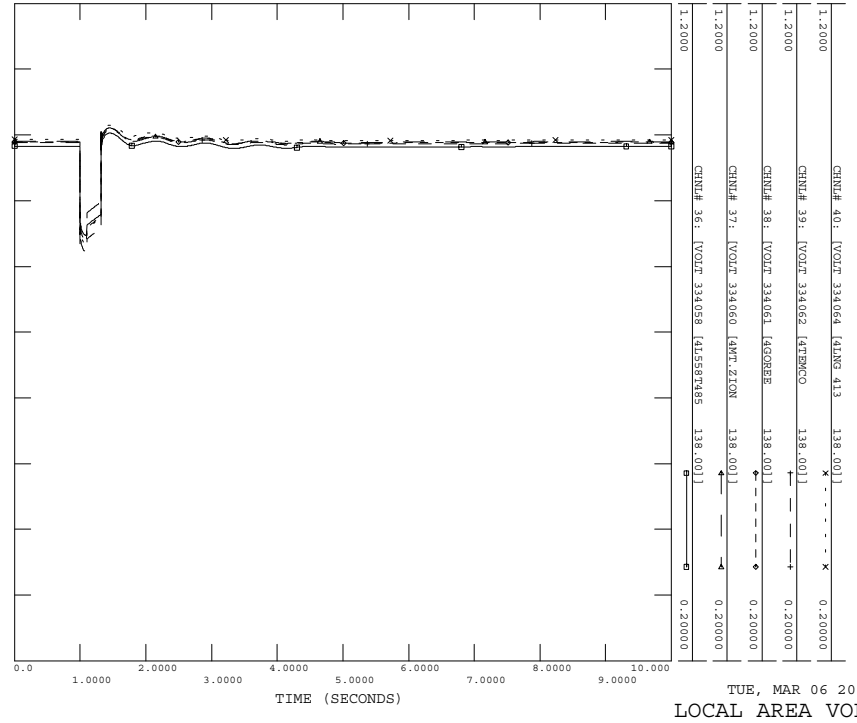
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



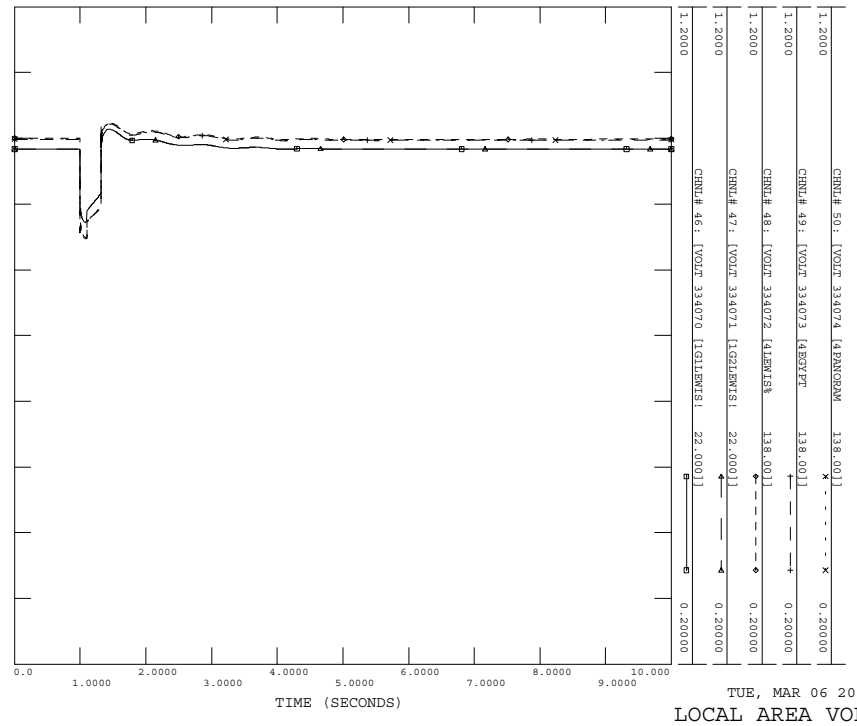
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



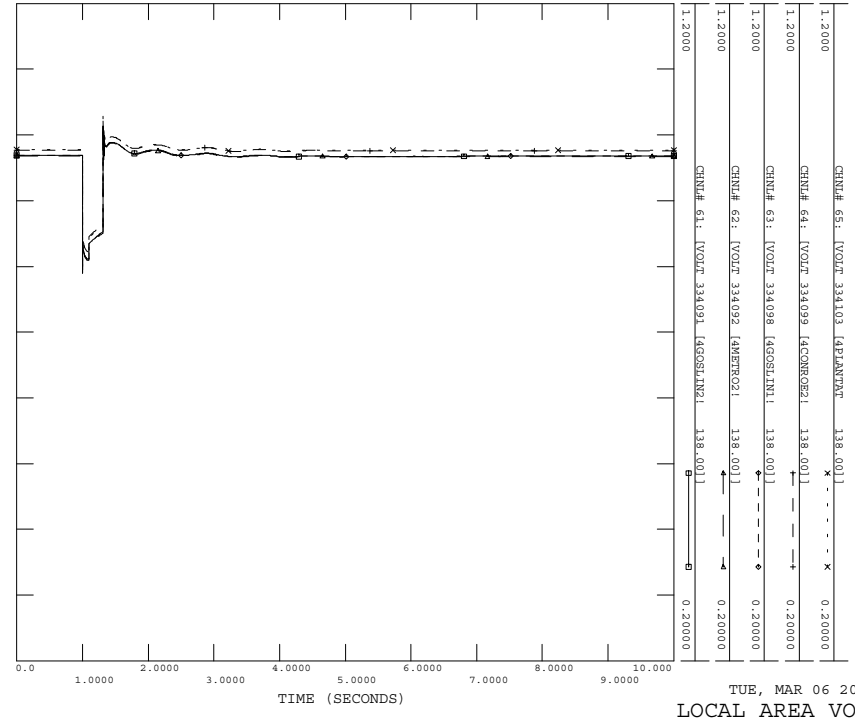
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



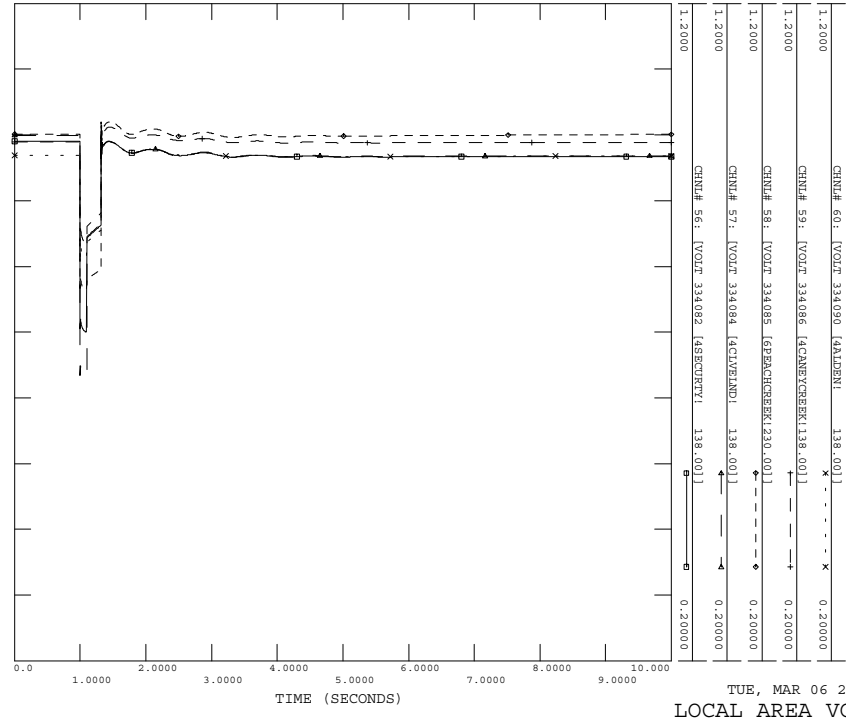
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



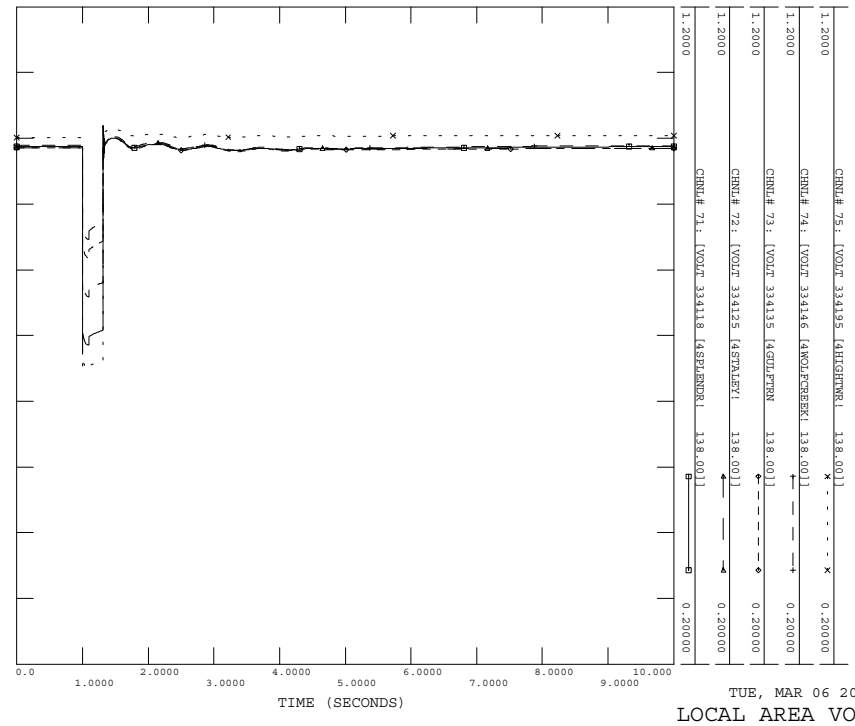
6+13CY SIG STUCKBRK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



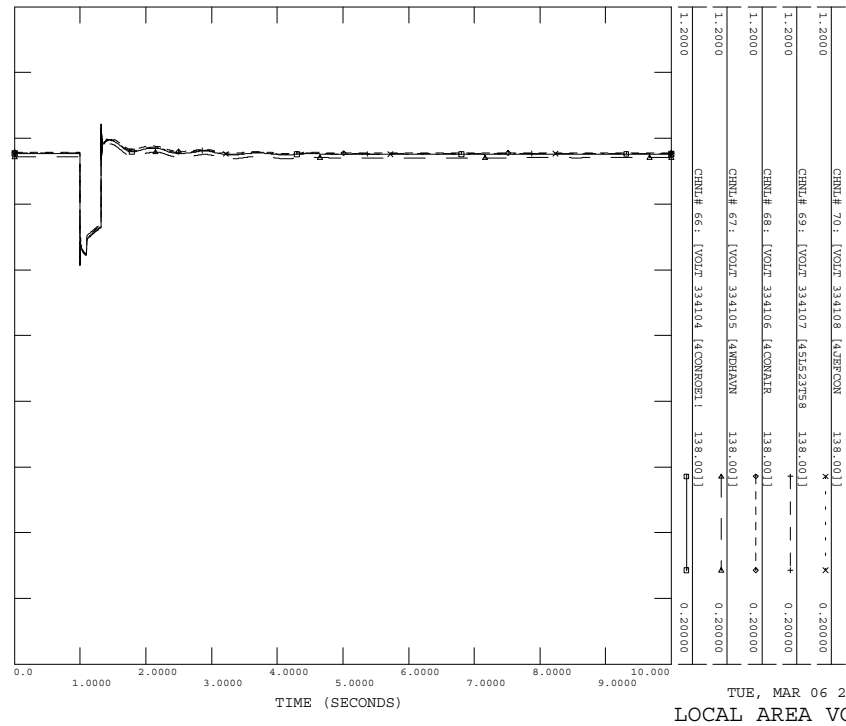
6+13CY SIG STUCKBRK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



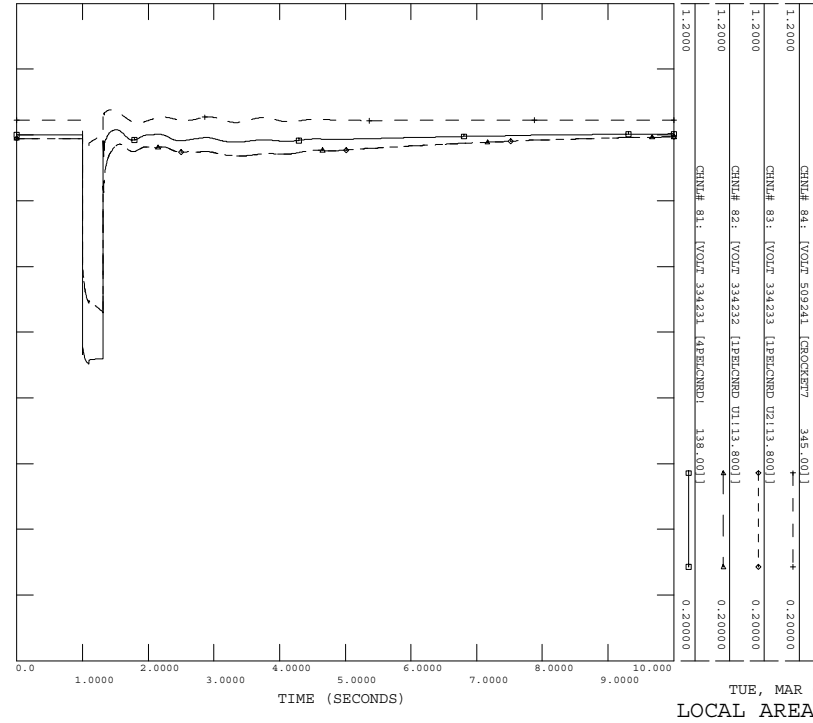
6+13CY SIG STUCKBRK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



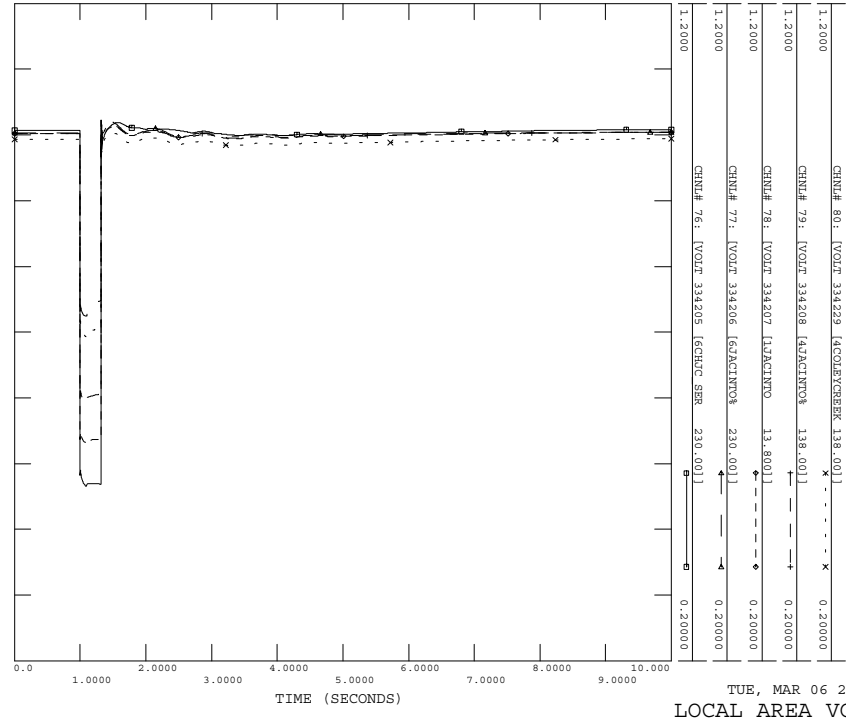
6+13CY SIG STUCKBRK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



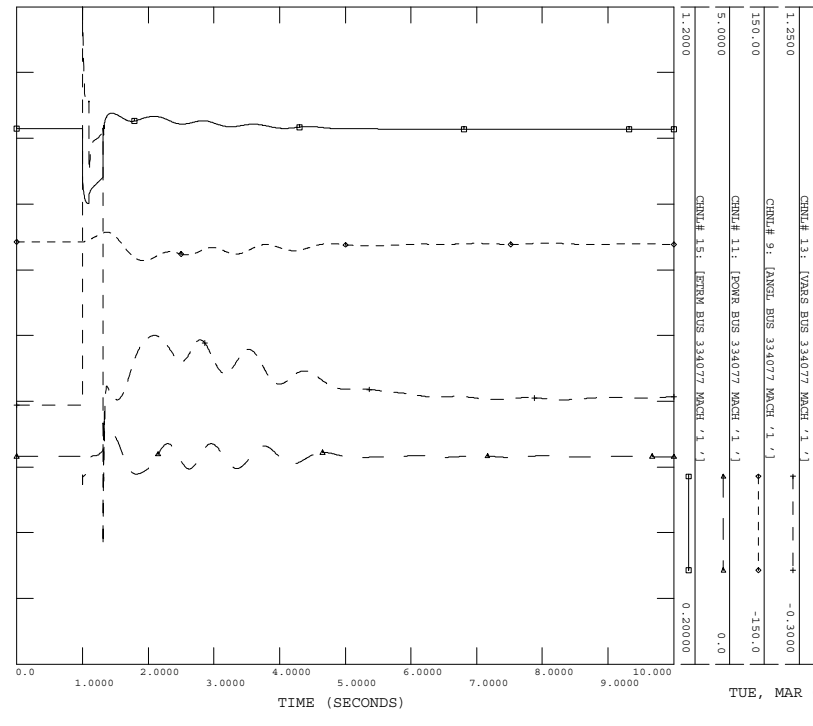
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



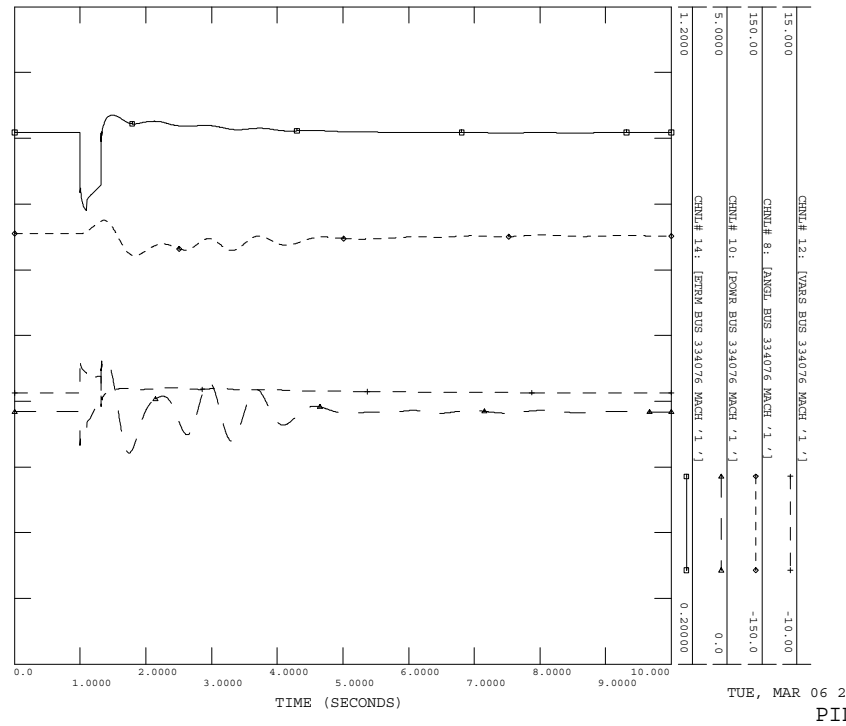
6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT



6+13CY SIG STUCKERK JACINTO - CLEVELAND 138 KV  
 TRIP JACINTO - CLEVELAND, JACINTO - HIGHTOWER 138 KV  
 FILE: Fault-9A.OUT

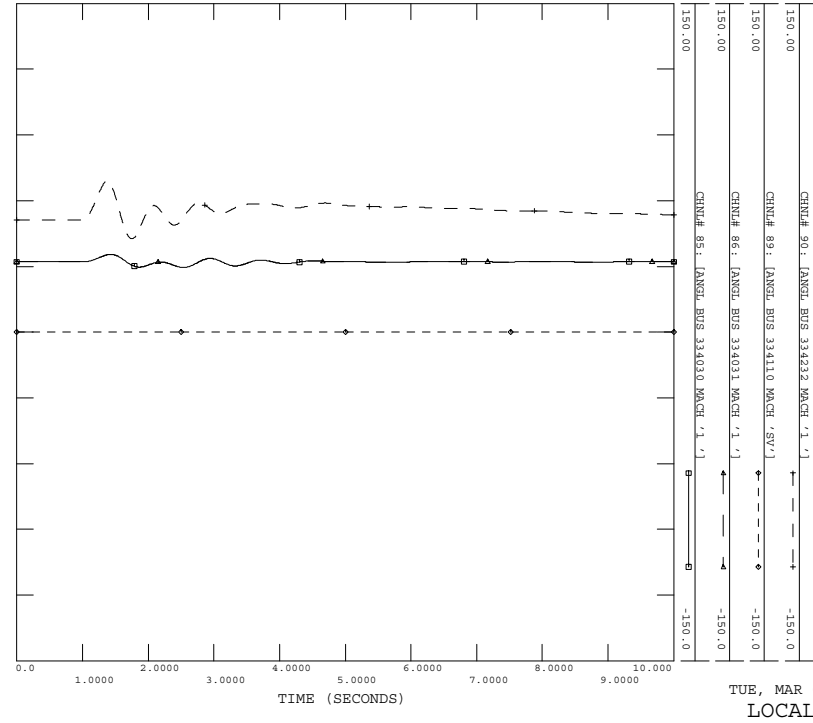


### **C.1.33      FAULT-10A**

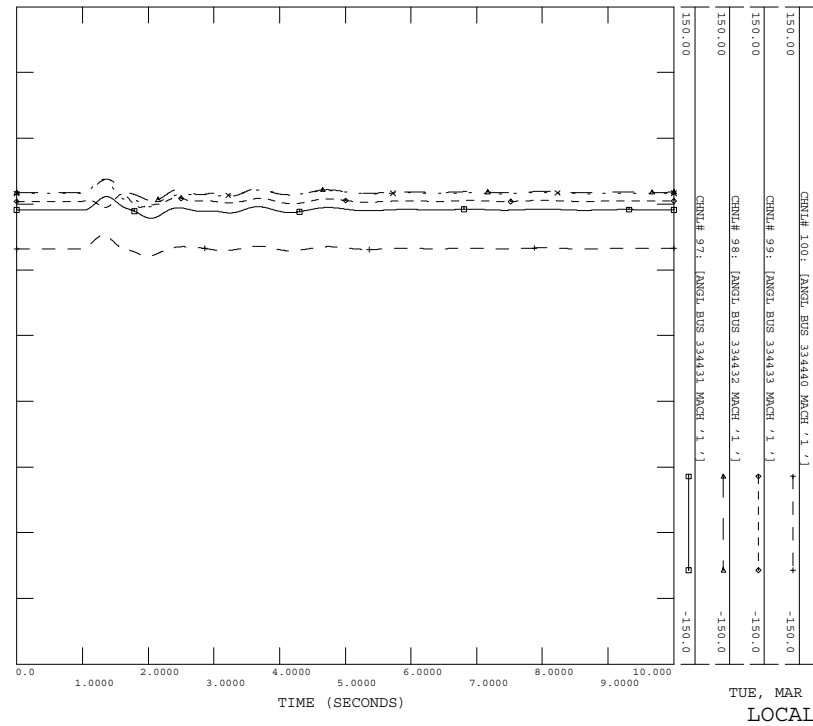
1 phase fault on the Jacinto 230/138 kV trafo

- a) Apply fault at Jacinto 138kV bus
- b) Clear fault after 6 cycles by tripping the Jacinto 230/138 kV trafo
- c) Breaker (16500) Stuck at Jacinto
- d) Clear fault after 13 cycles by tripping the Jacinto – Splendora 138 kV

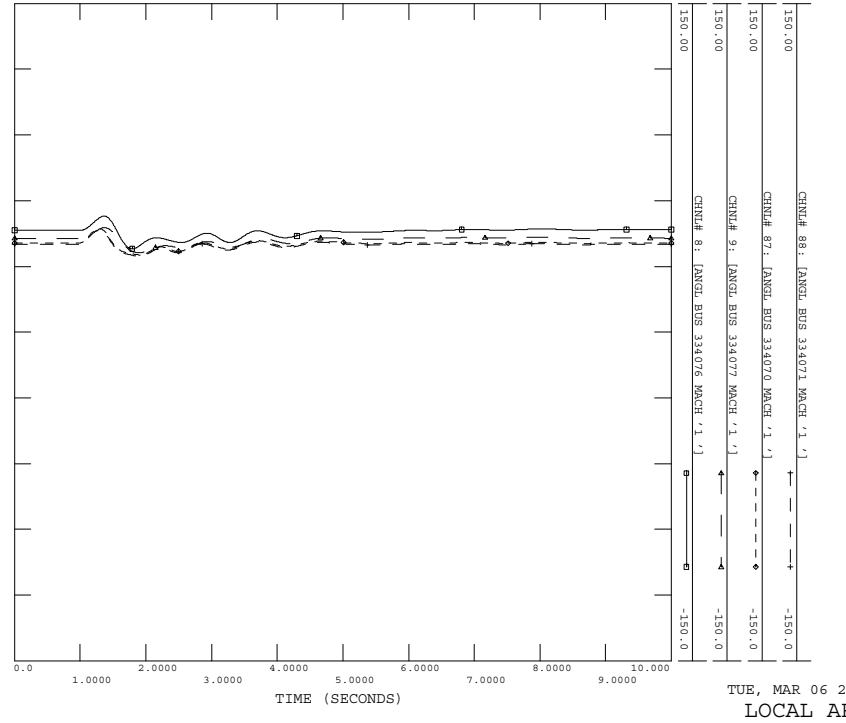
6+130Y SIG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



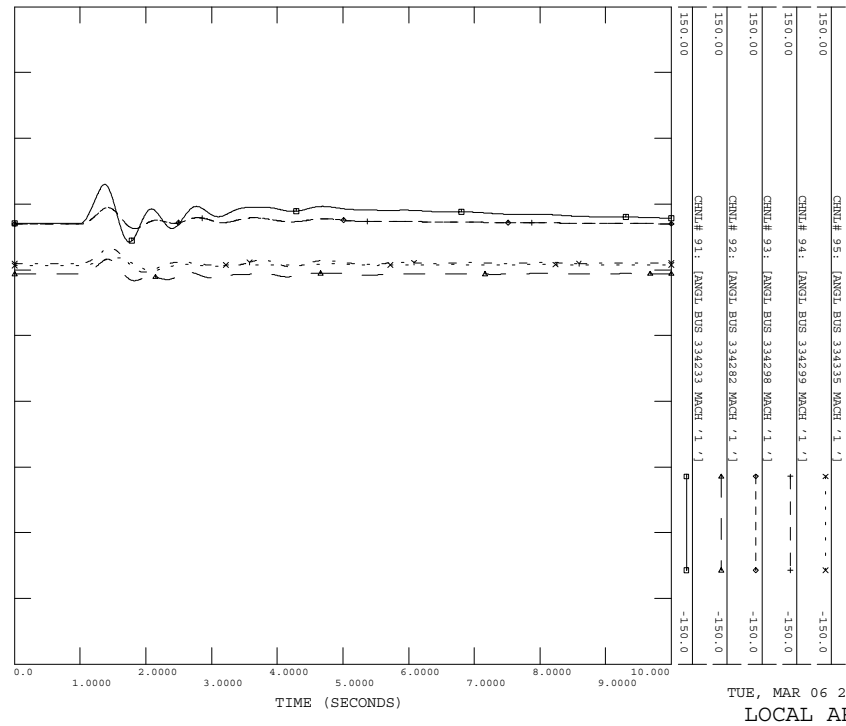
6+130Y SIG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



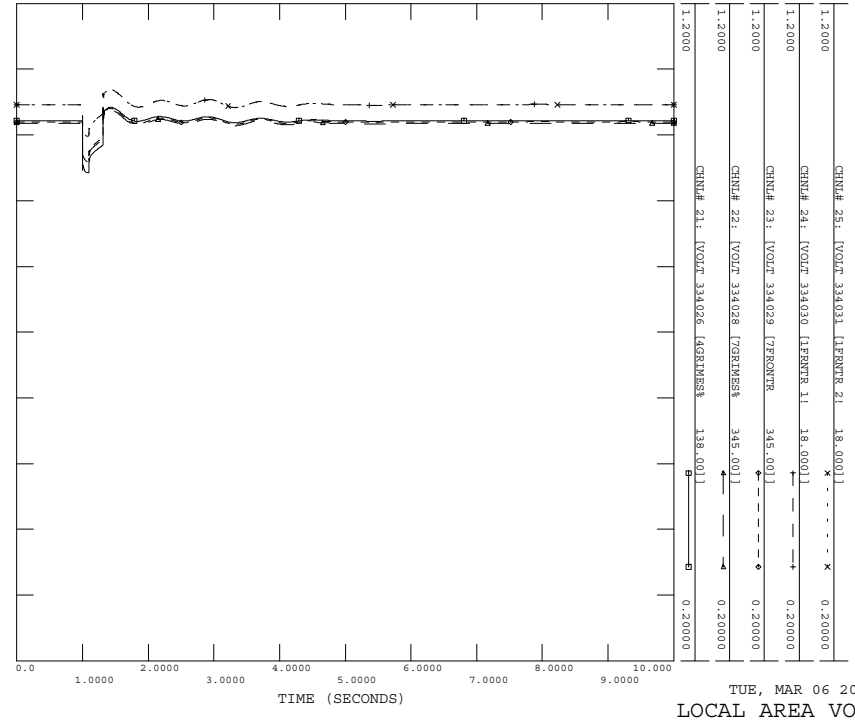
6+130Y SIG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



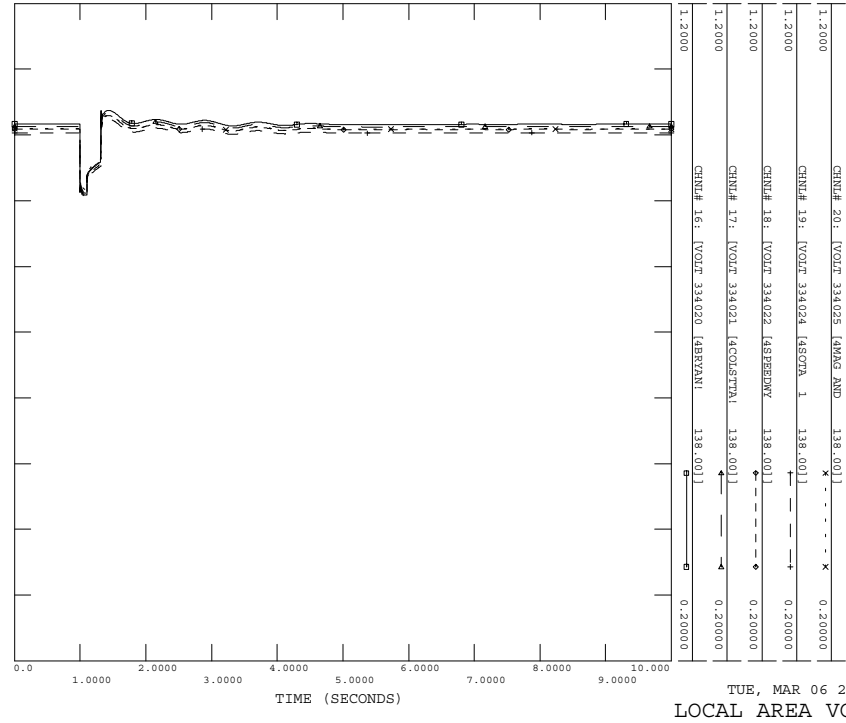
6+130Y SIG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



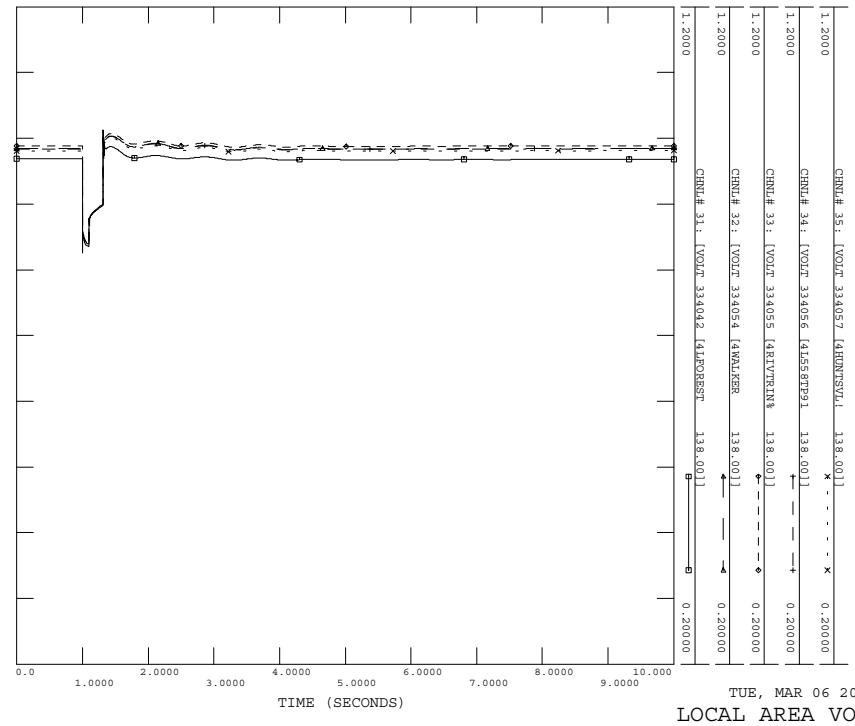
6+13CY SLG STUCKERR JACINTO 230/138 KV TRAPO  
 TRIP 230/138 KV TRAPO , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



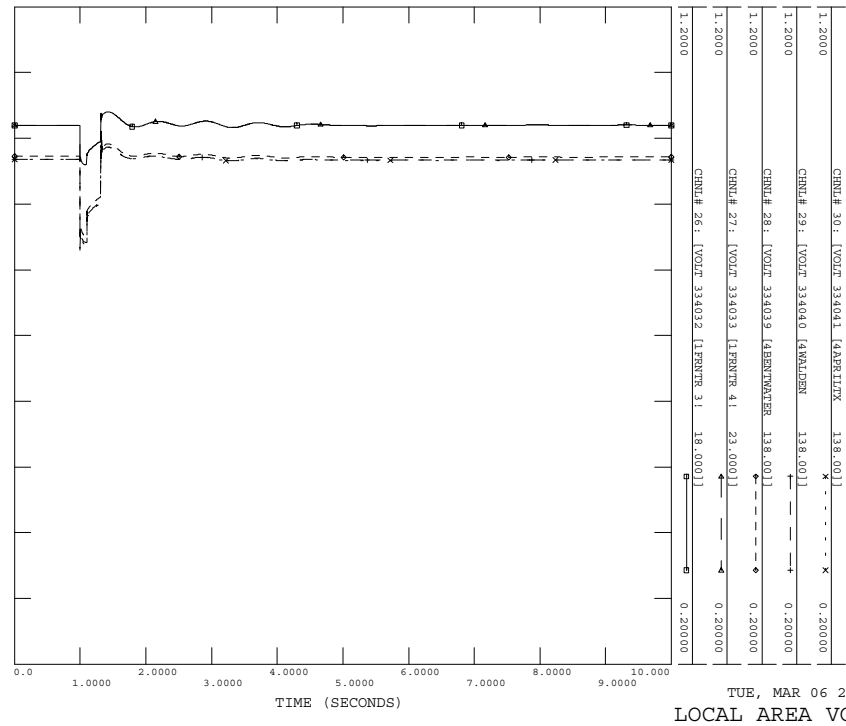
6+13CY SLG STUCKERR JACINTO 230/138 KV TRAPO  
 TRIP 230/138 KV TRAPO , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



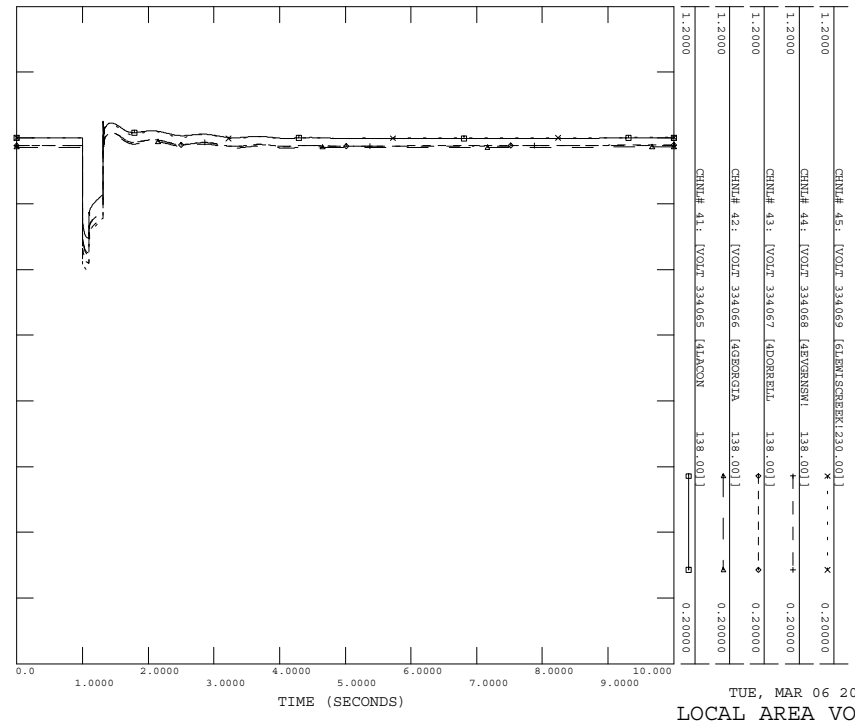
6+13CY SLG STUCKERR JACINTO 230/138 KV TRAPO  
 TRIP 230/138 KV TRAPO , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



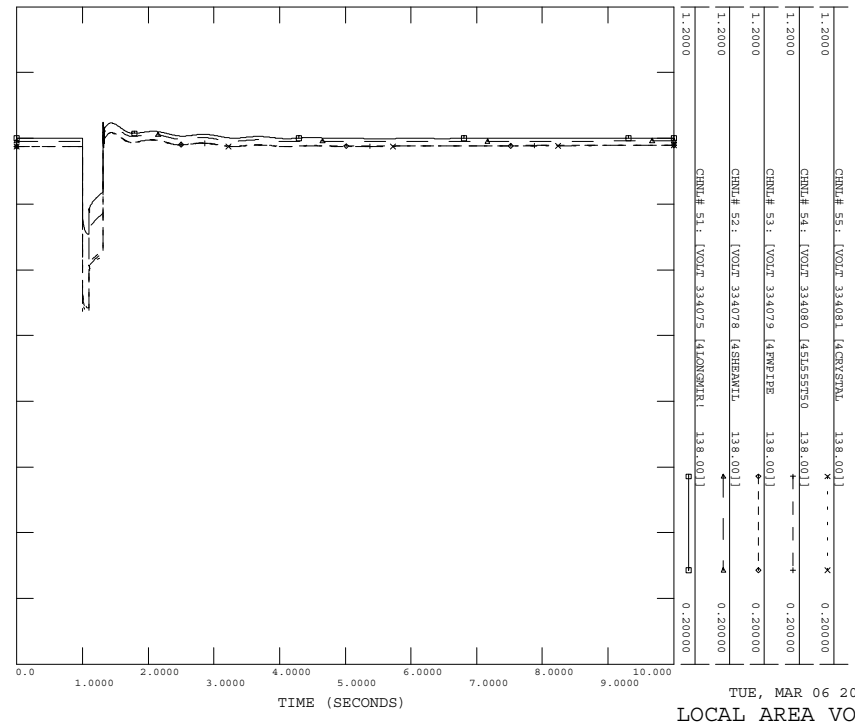
6+13CY SLG STUCKERR JACINTO 230/138 KV TRAPO  
 TRIP 230/138 KV TRAPO , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



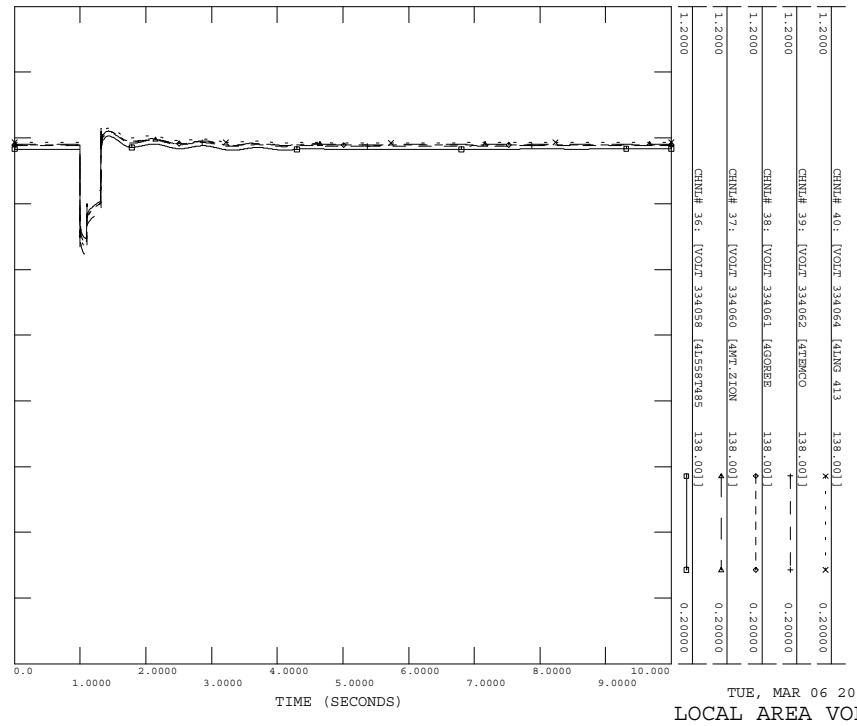
6+13CY SLG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



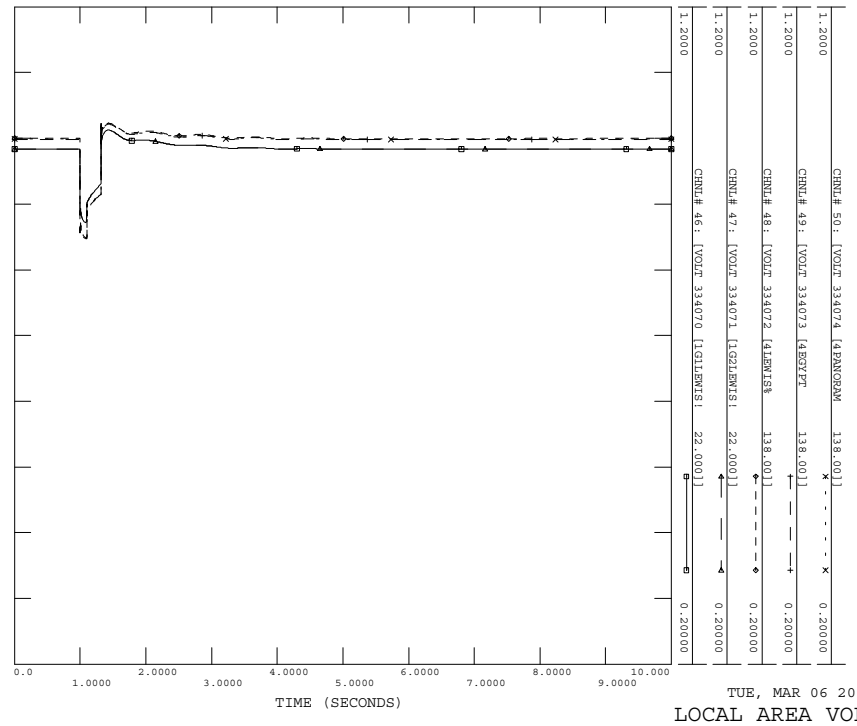
6+13CY SLG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



6+13CY SLG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT

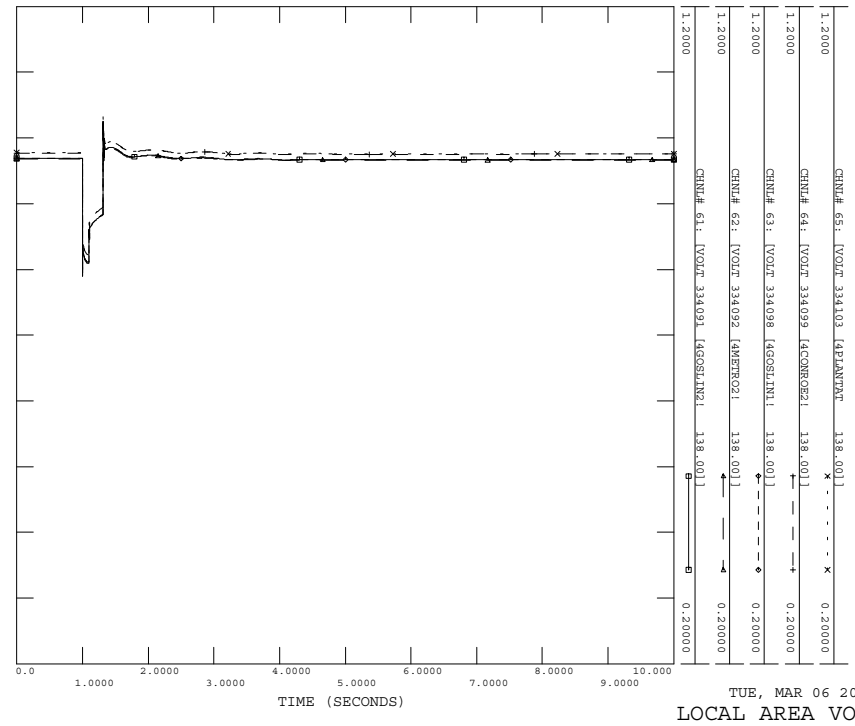


6+13CY SLG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT

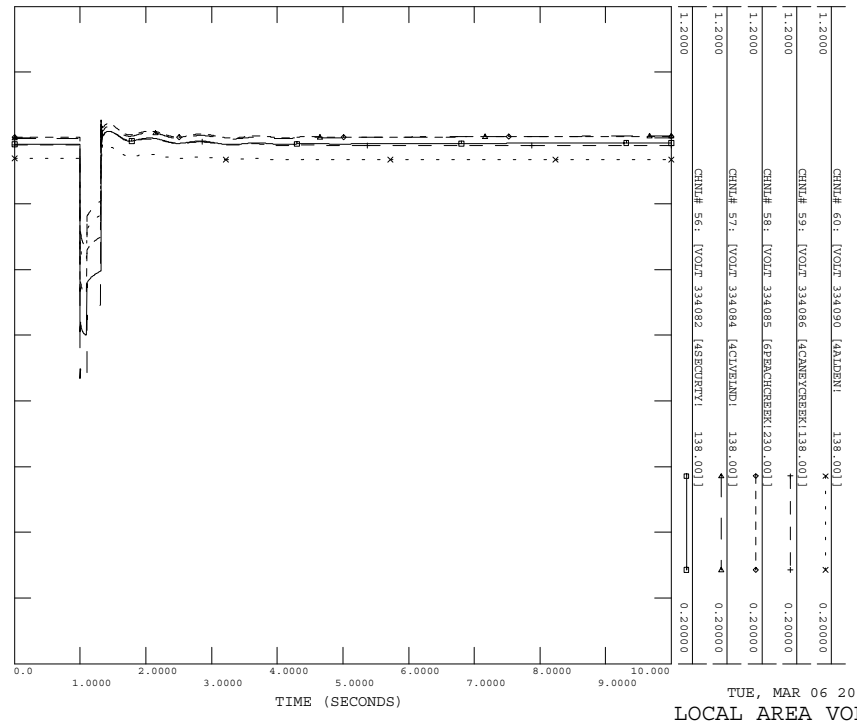




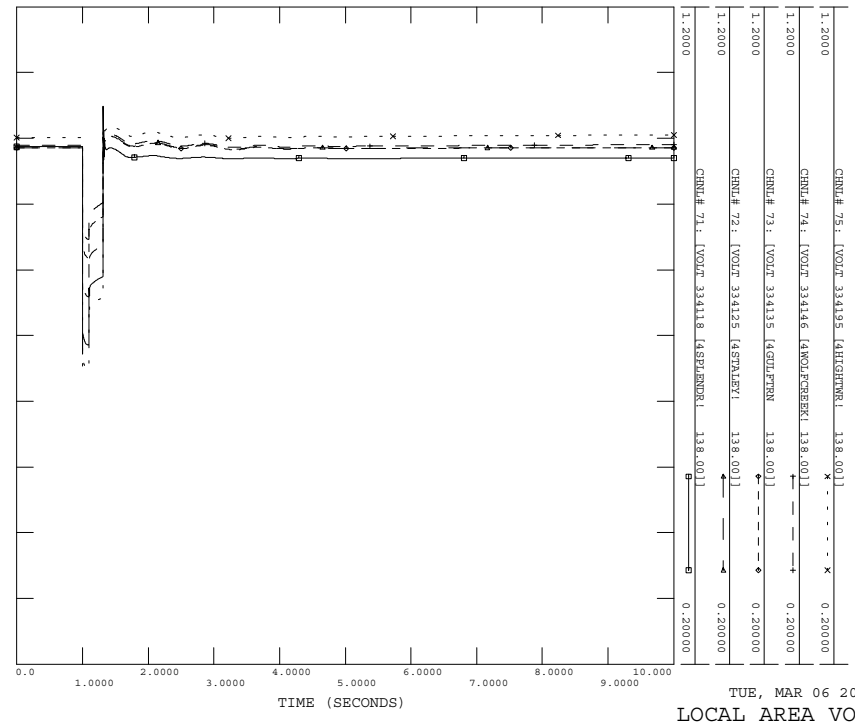
6+13CY SLG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



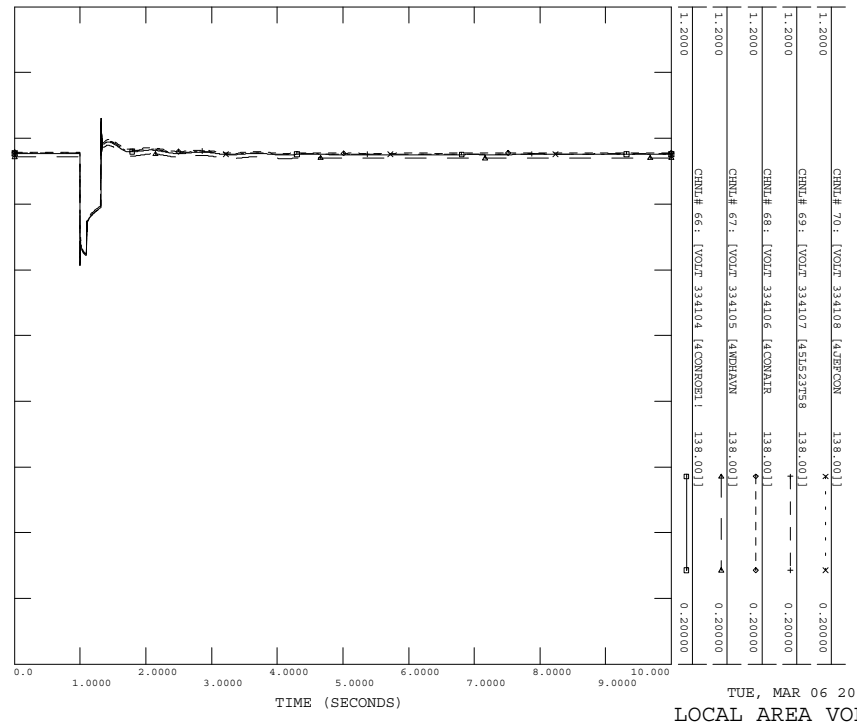
6+13CY SLG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



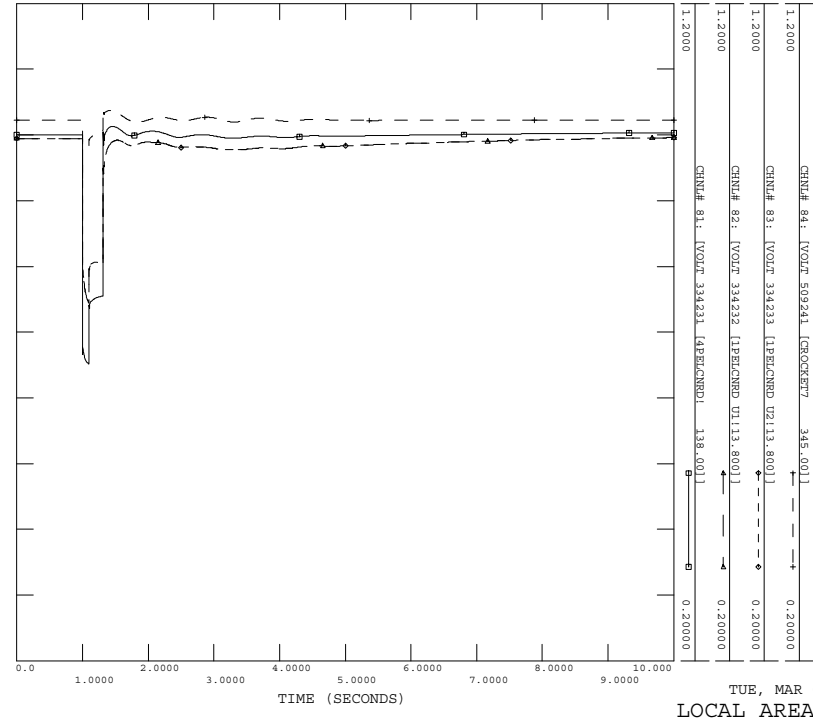
6+13CY SLG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



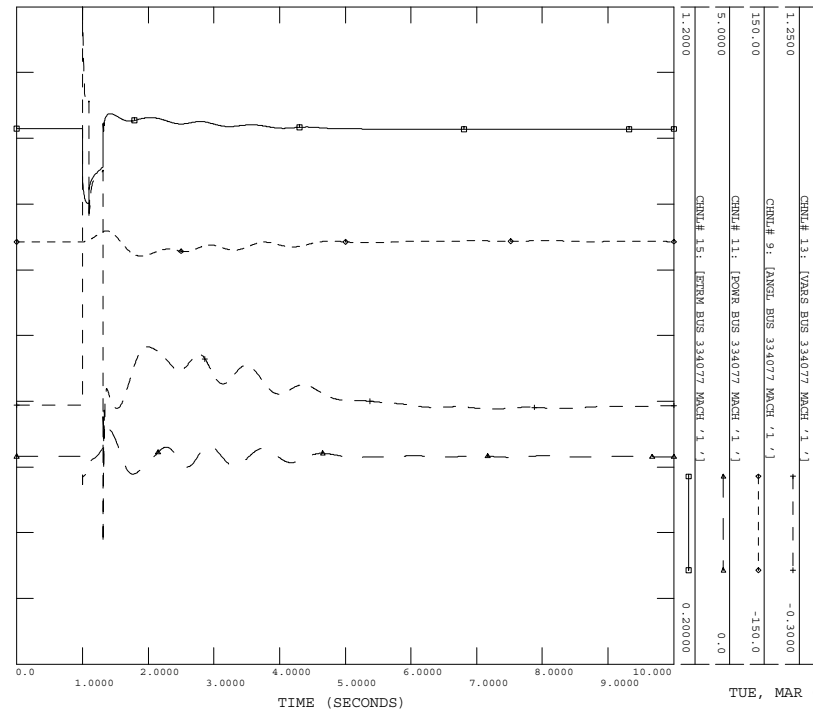
6+13CY SLG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 , JACINTO - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



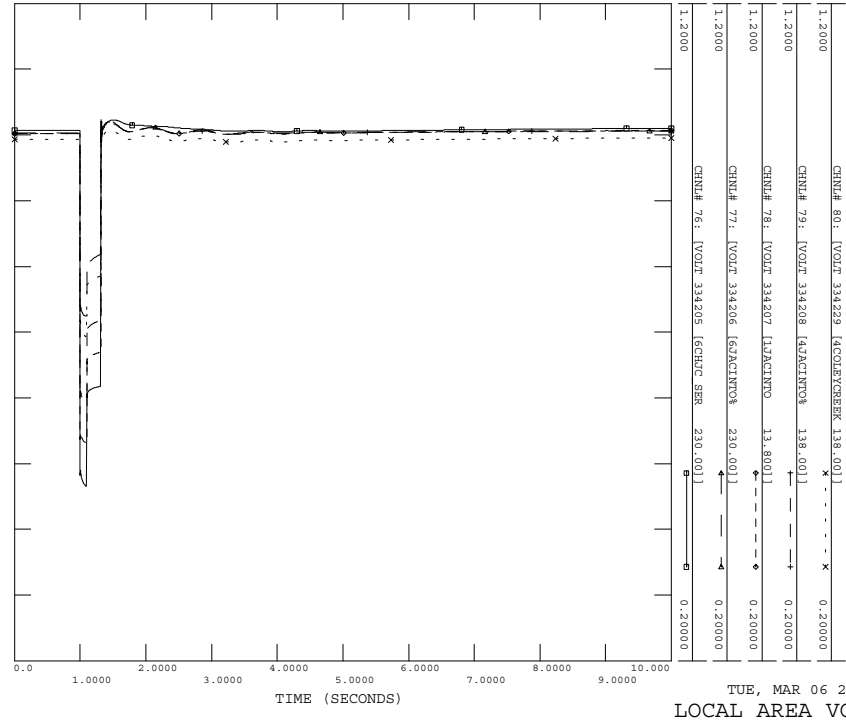
6+13CY SIG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



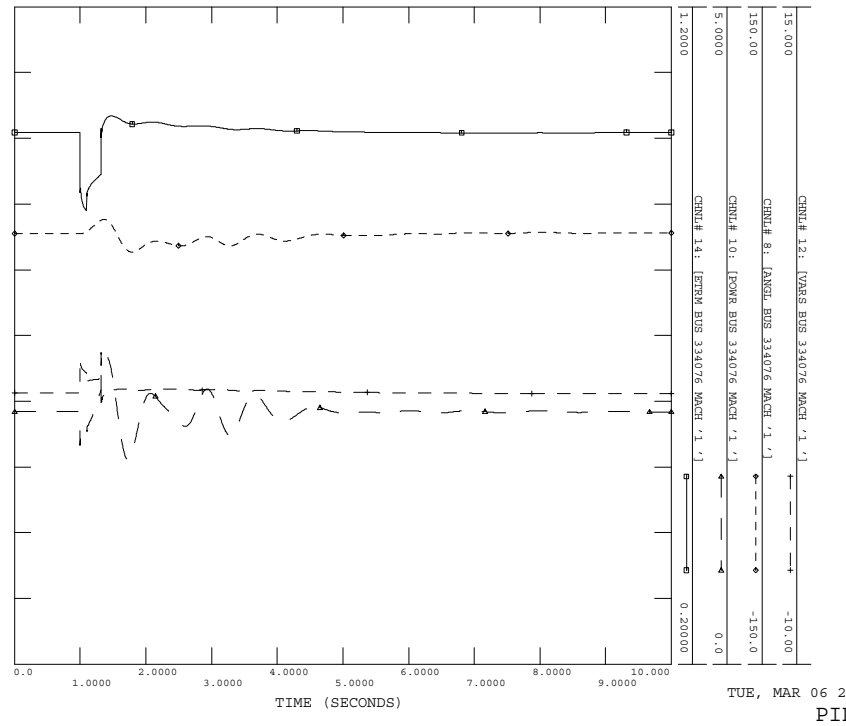
6+13CY SIG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



6+13CY SIG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT



6+13CY SIG STUCKERR JACINTO 230/138 KV TRAF0  
 TRIP 230/138 KV TRAF0 - SPLENDORA 138 KV  
 FILE: Fault-10A.OUT

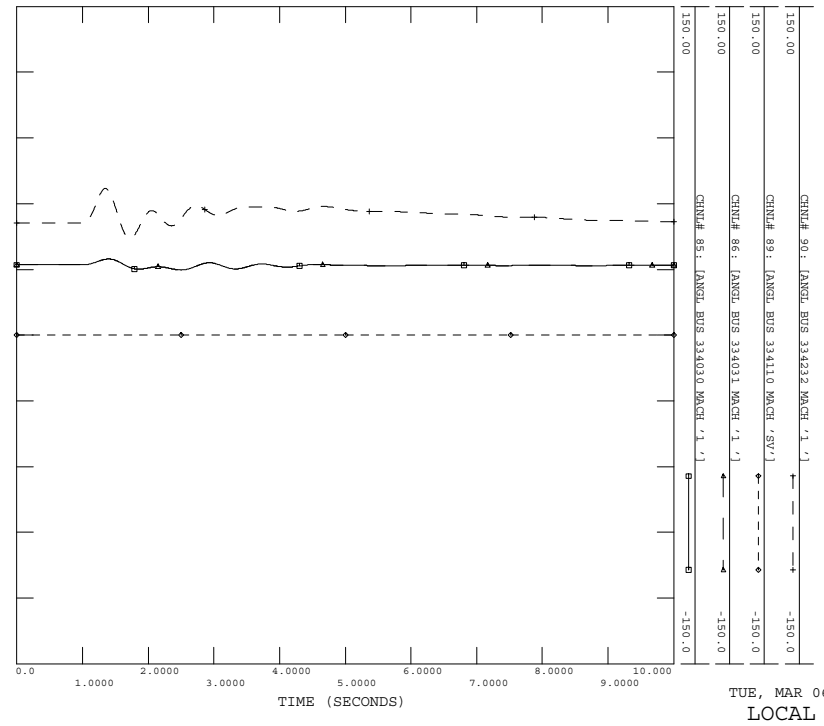


### **C.1.34      FAULT-11A**

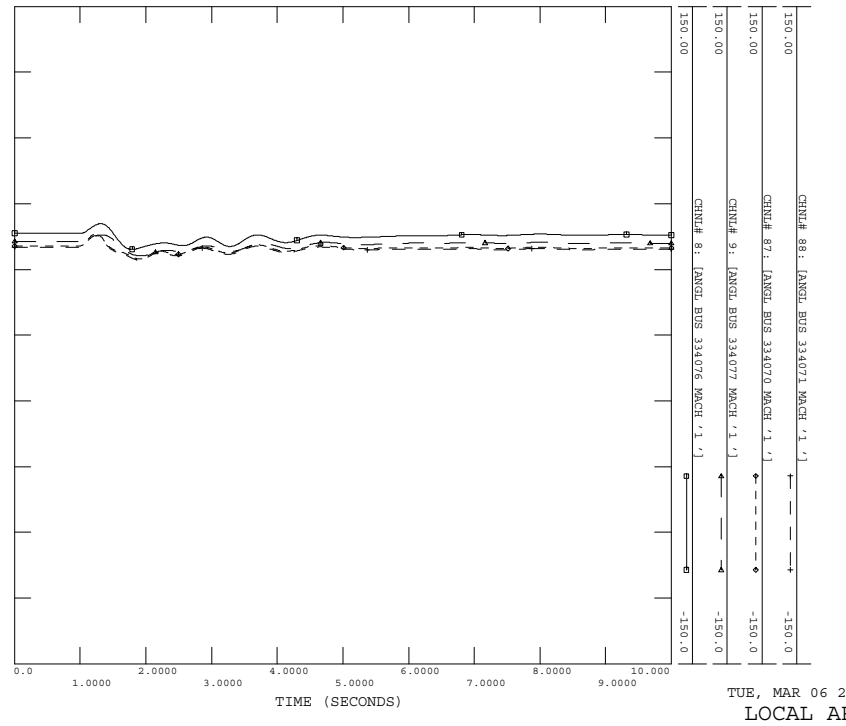
1 phase fault on the Jacinto – Peach Creek 230 kV

- a) Apply fault at Jacinto 230kV bus
- b) Clear fault after 6 cycles by tripping the Jacinto – Peach Creek 230 kV
- c) Breaker (26390) Stuck at Jacinto
- d) Clear fault after 9 cycles by tripping the Jacinto 230/138 kV trafo

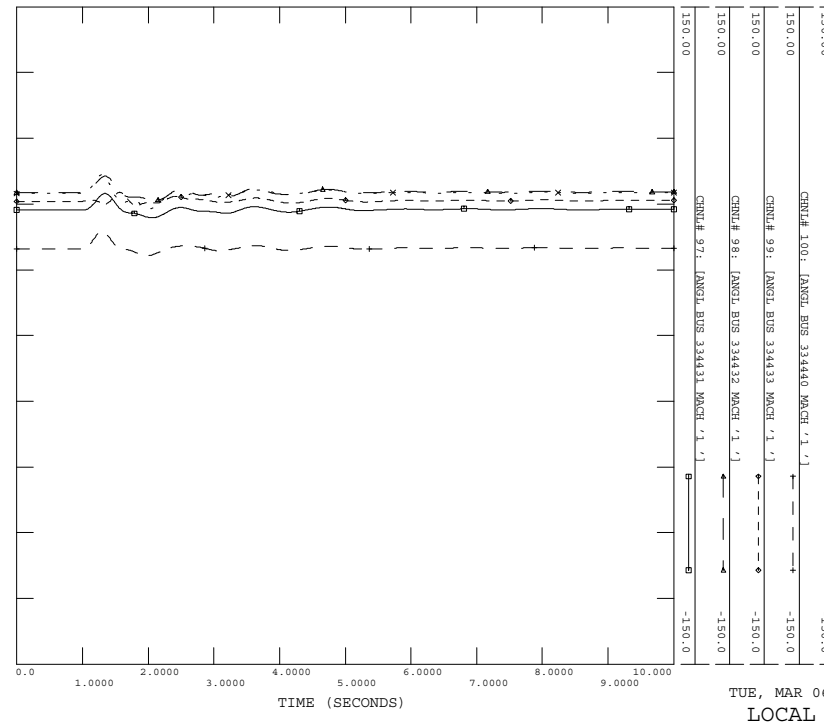
6+130Y SLG STUCKERK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.0UT



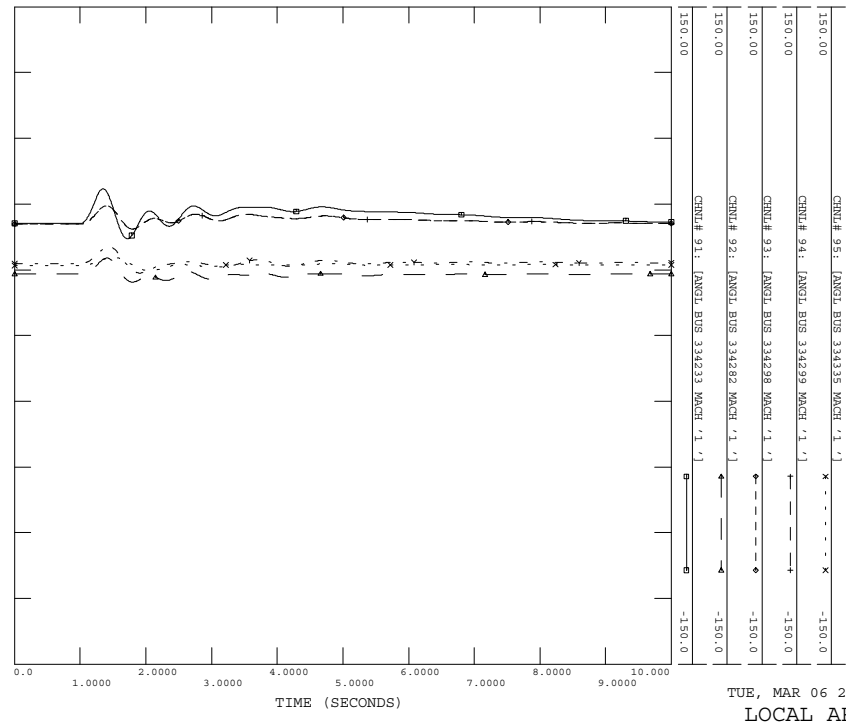
6+130Y SLG STUCKERK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.0UT



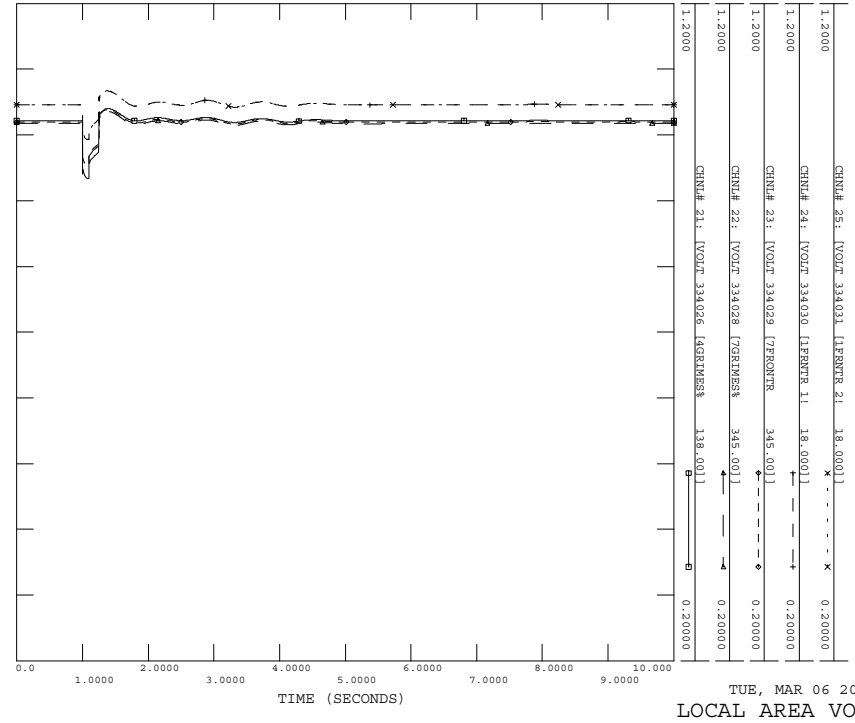
6+130Y SLG STUCKERK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.0UT



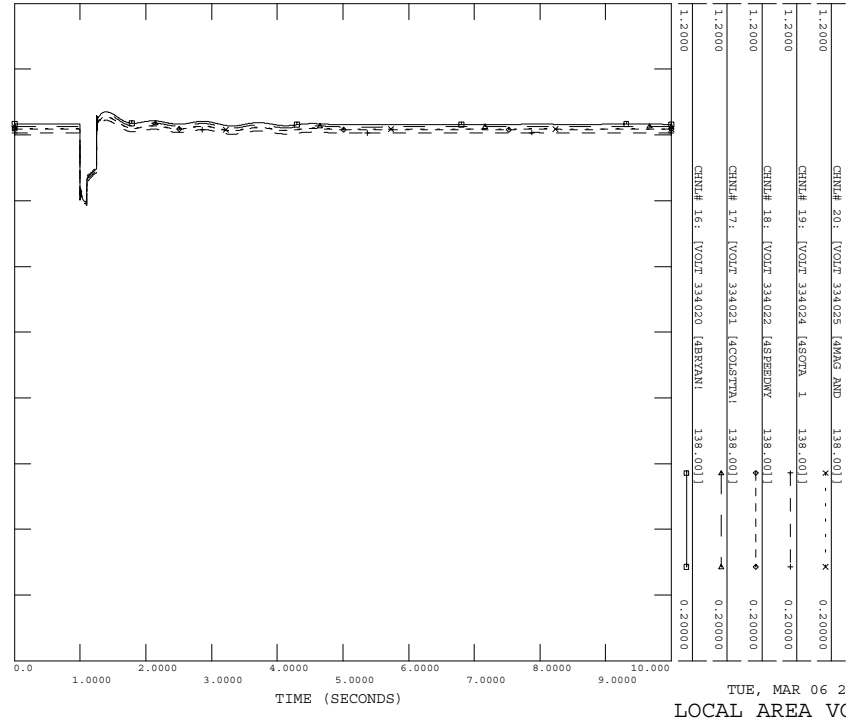
6+130Y SLG STUCKERK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.0UT



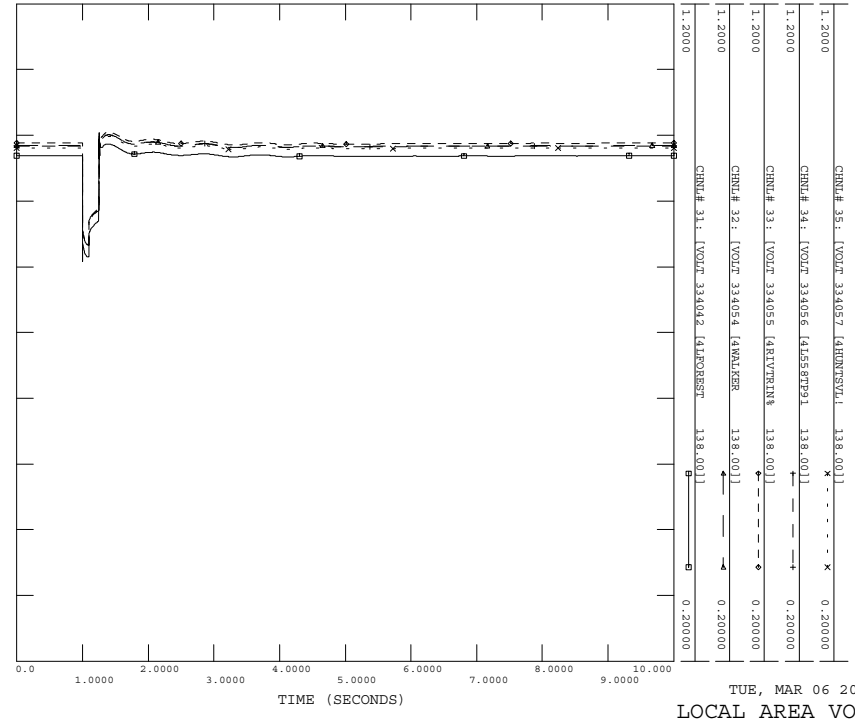
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



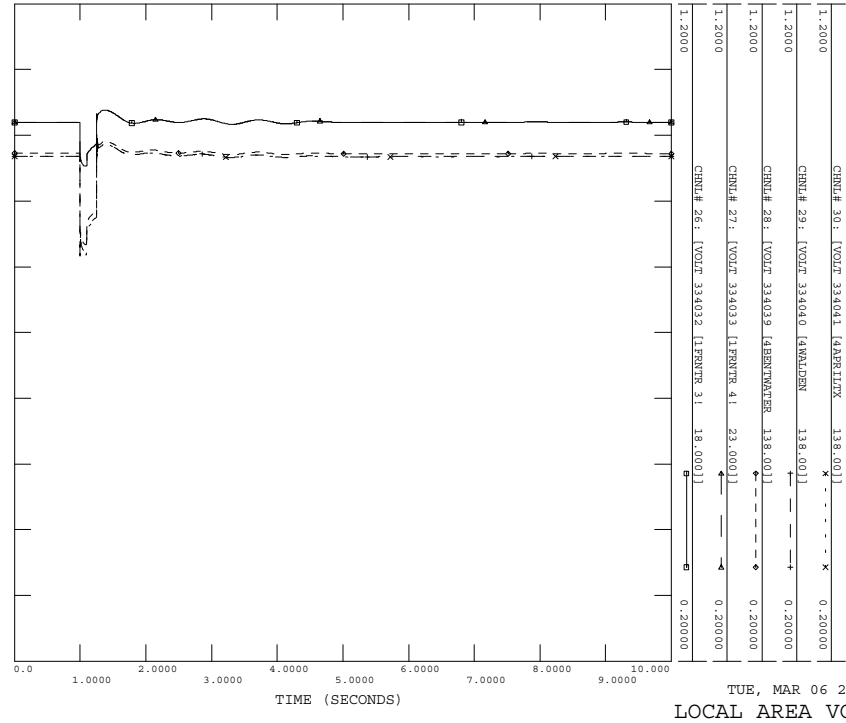
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



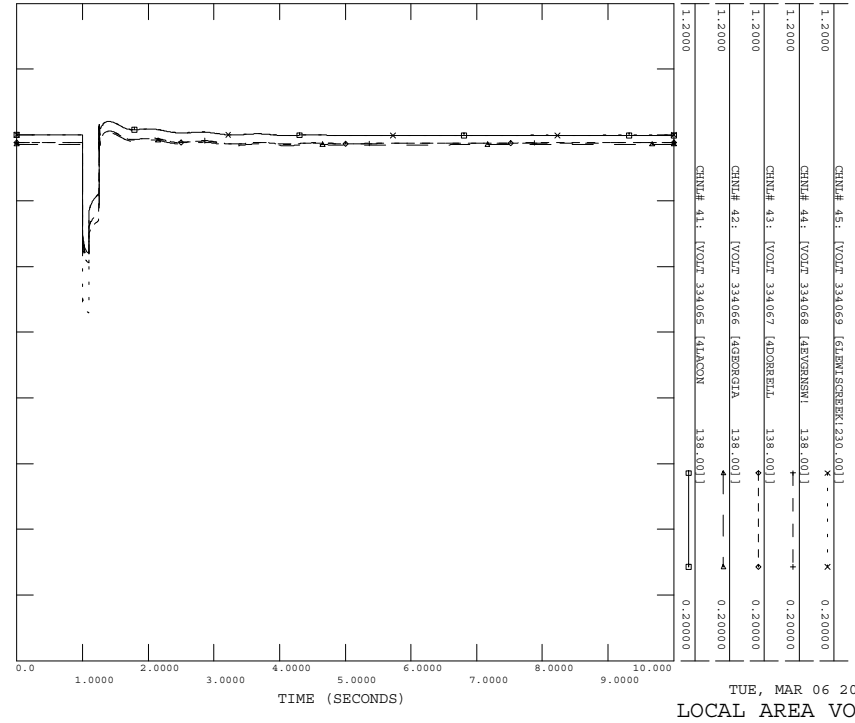
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



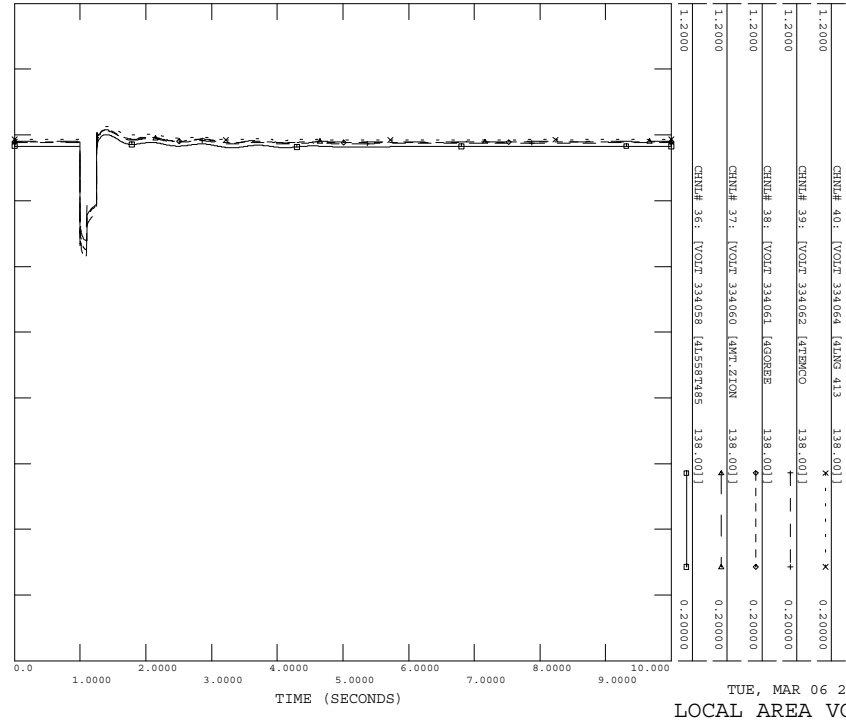
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



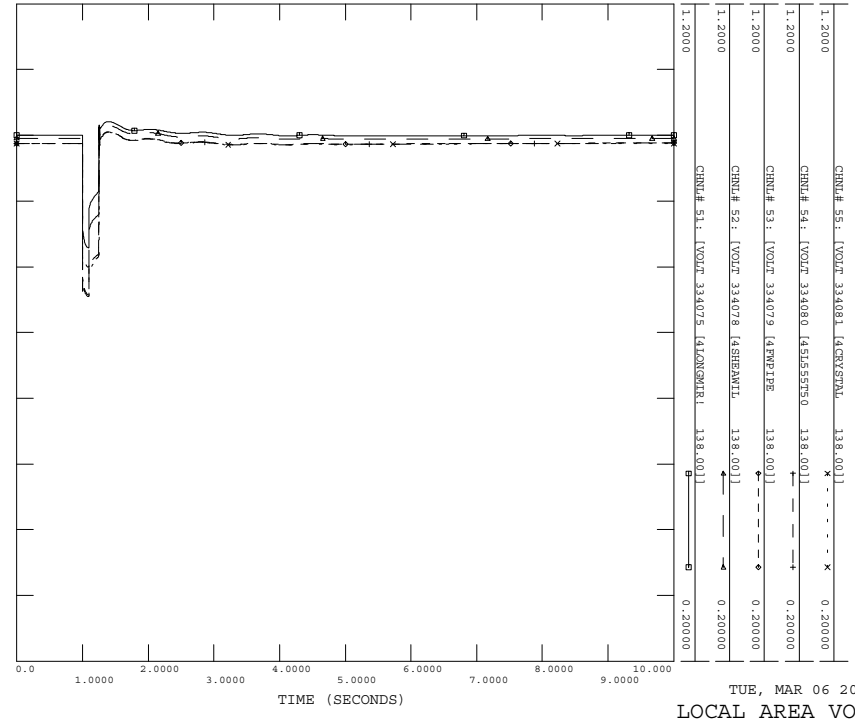
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



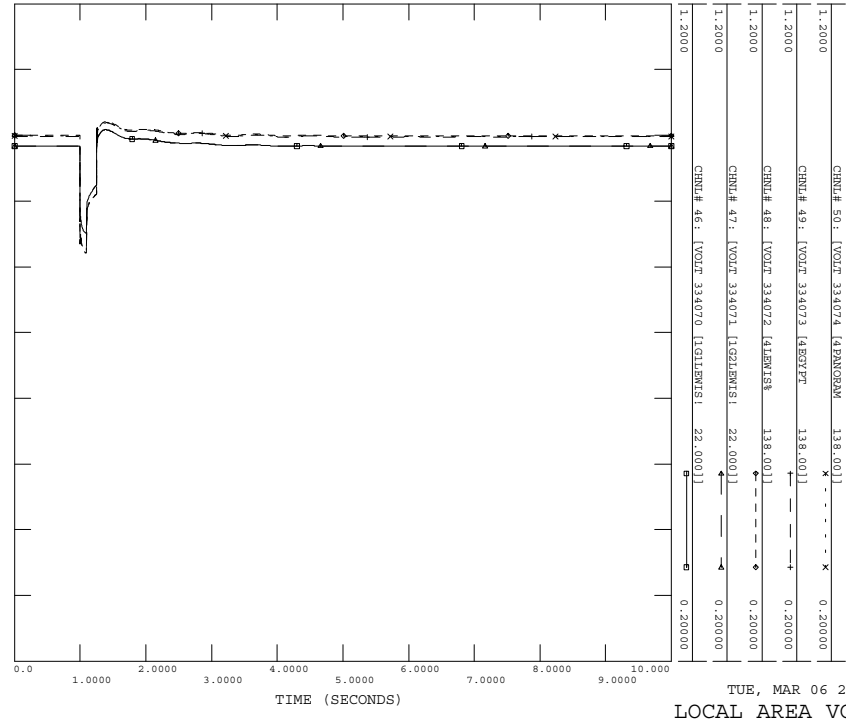
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



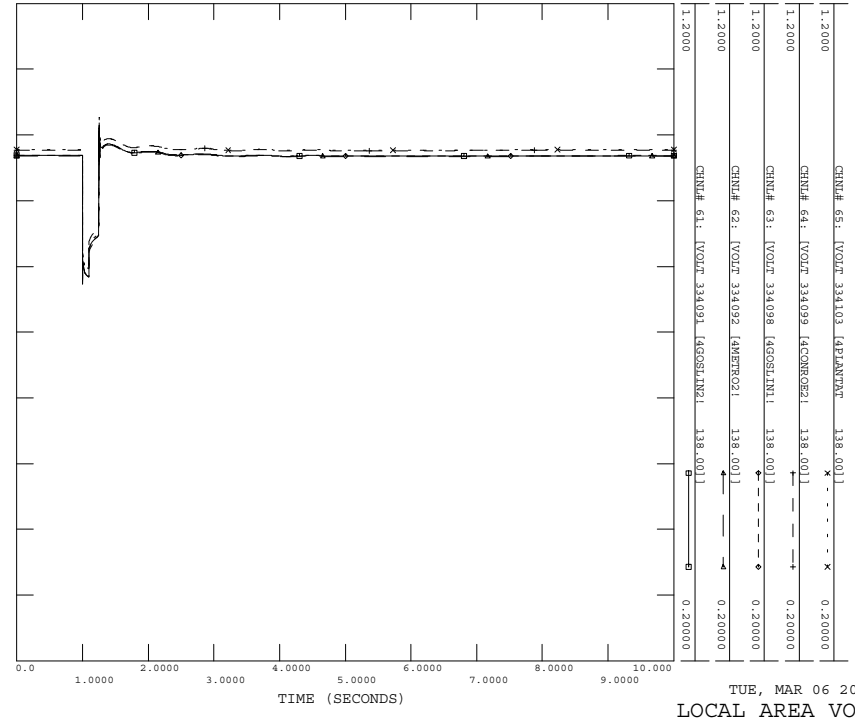
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



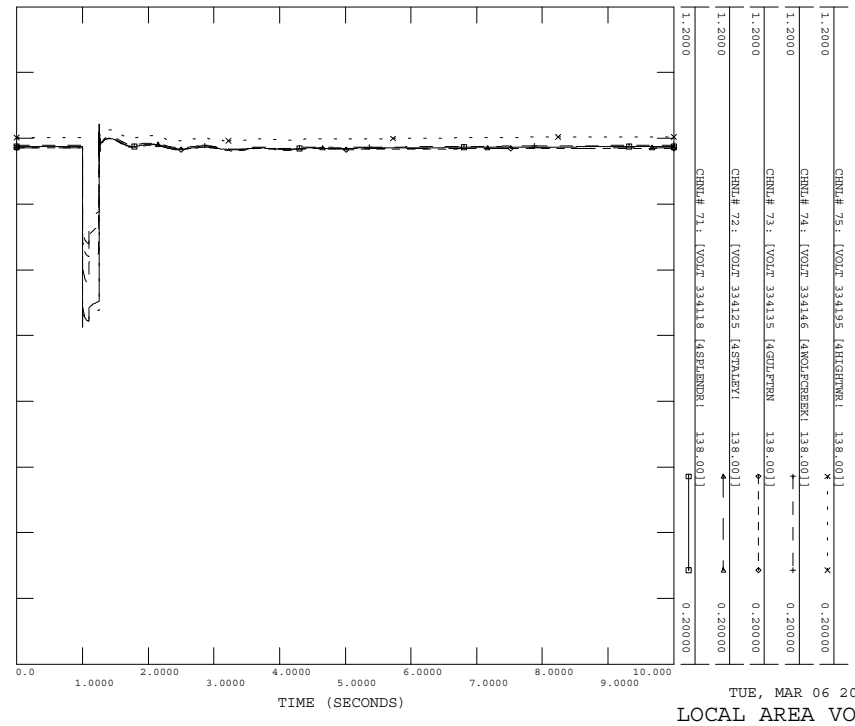
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



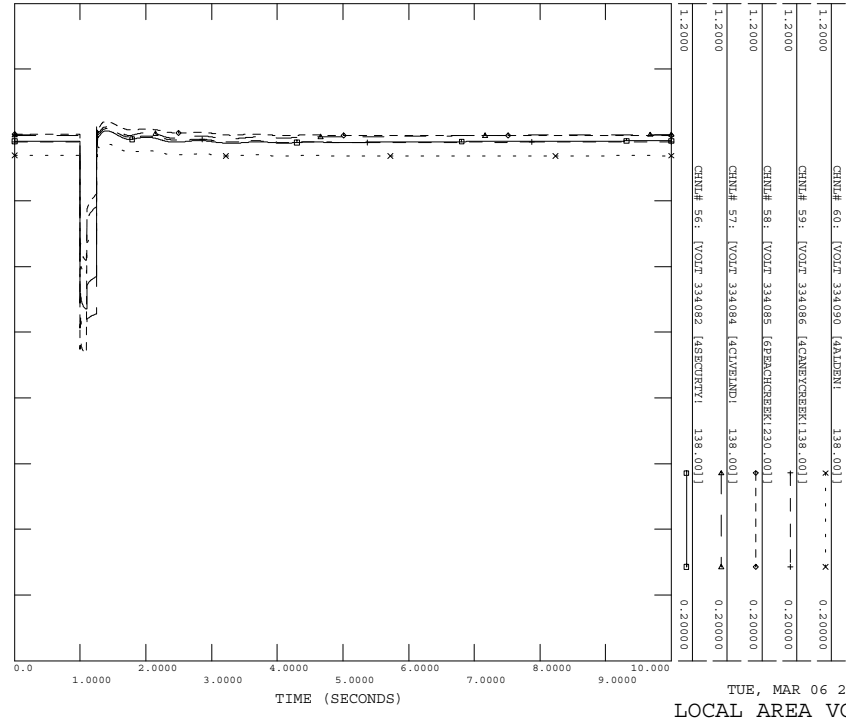
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



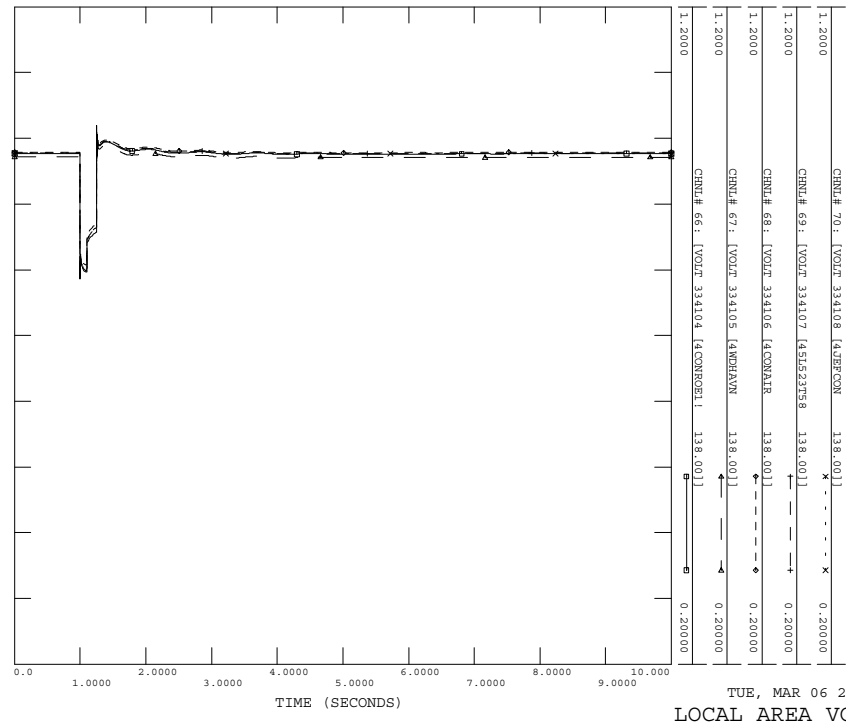
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



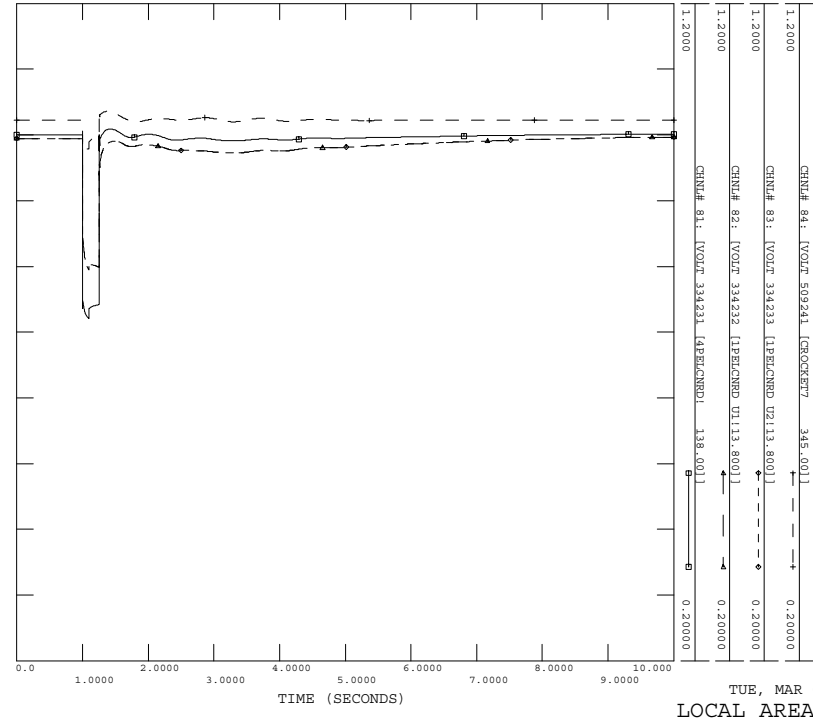
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



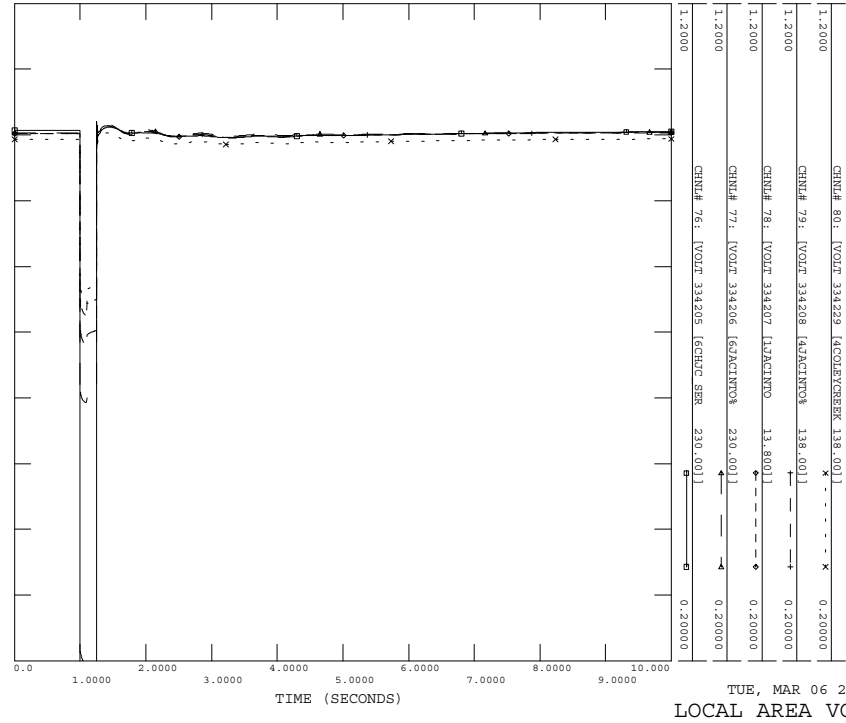
6+13CY SIG STUCKBRK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.OUT



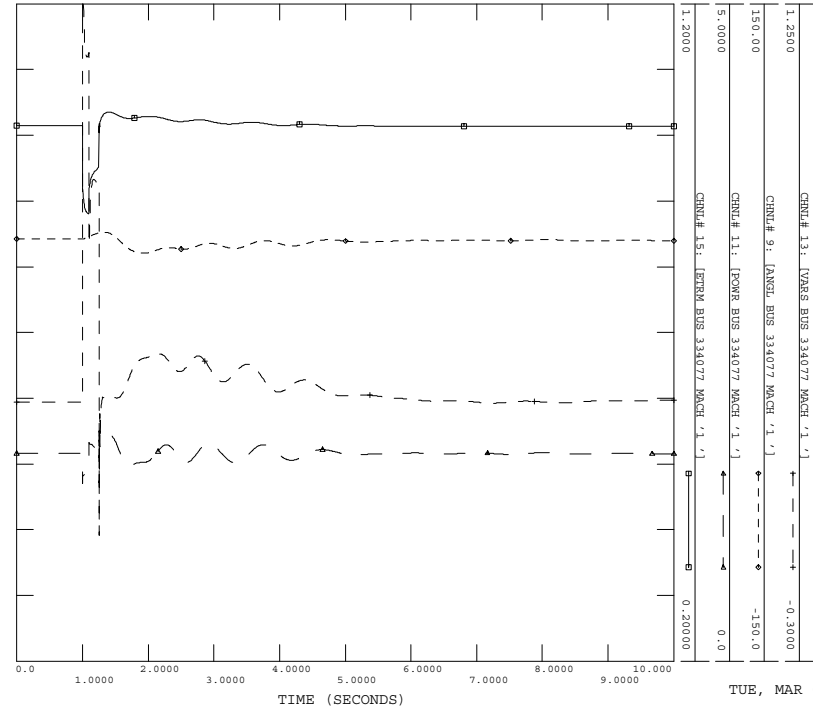
6+13CY SIG STUCKERK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.001



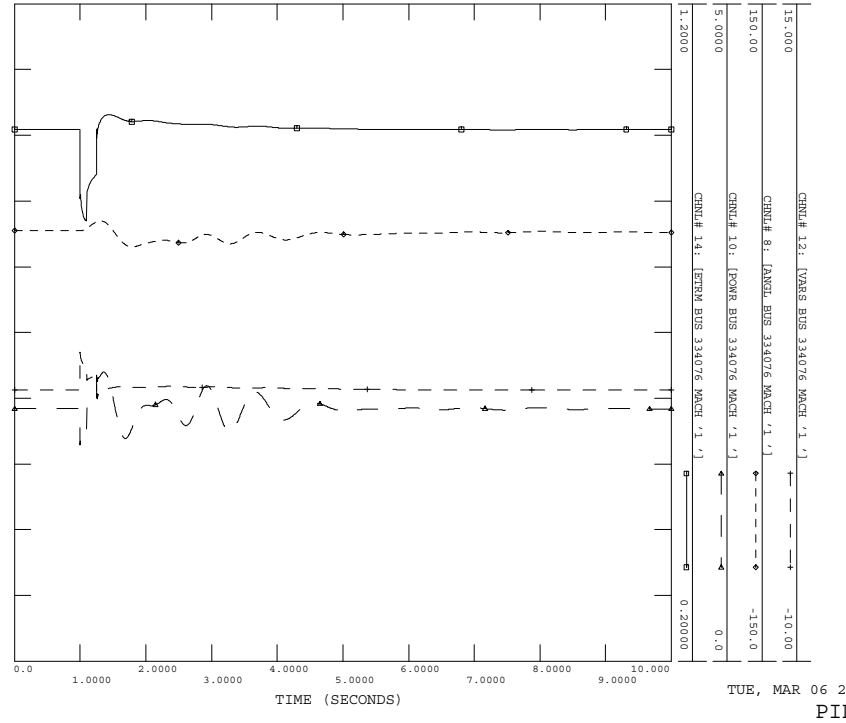
6+13CY SIG STUCKERK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.001



6+13CY SIG STUCKERK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.001



6+13CY SIG STUCKERK JACINTO - PEACH CREEK 230 KV  
 TRIP JACINTO - PEACH CREEK, JACINTO 230/138 KV TRAPO  
 FILE: Fault-11A.001



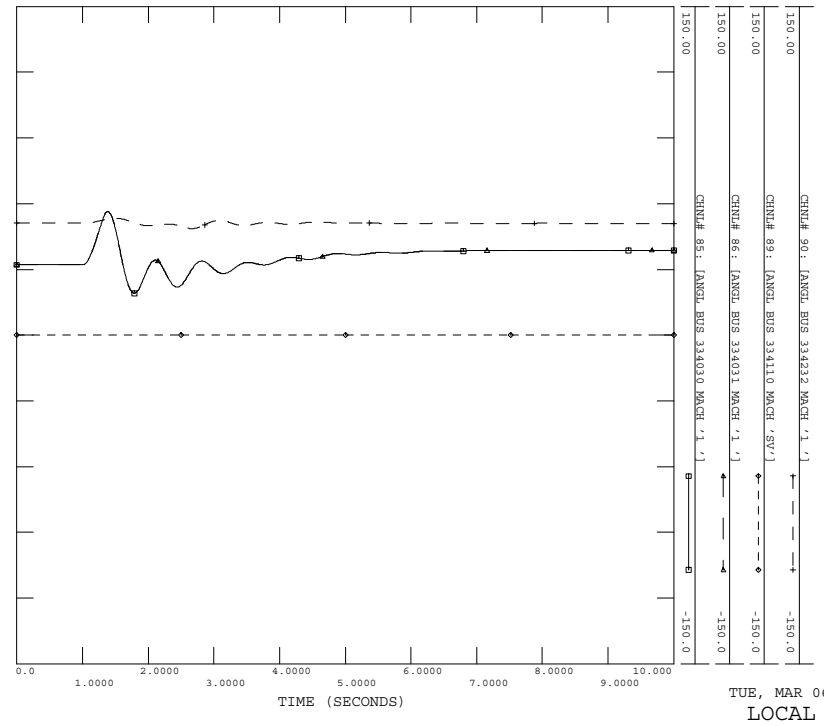


### **C.1.35      FAULT-12A**

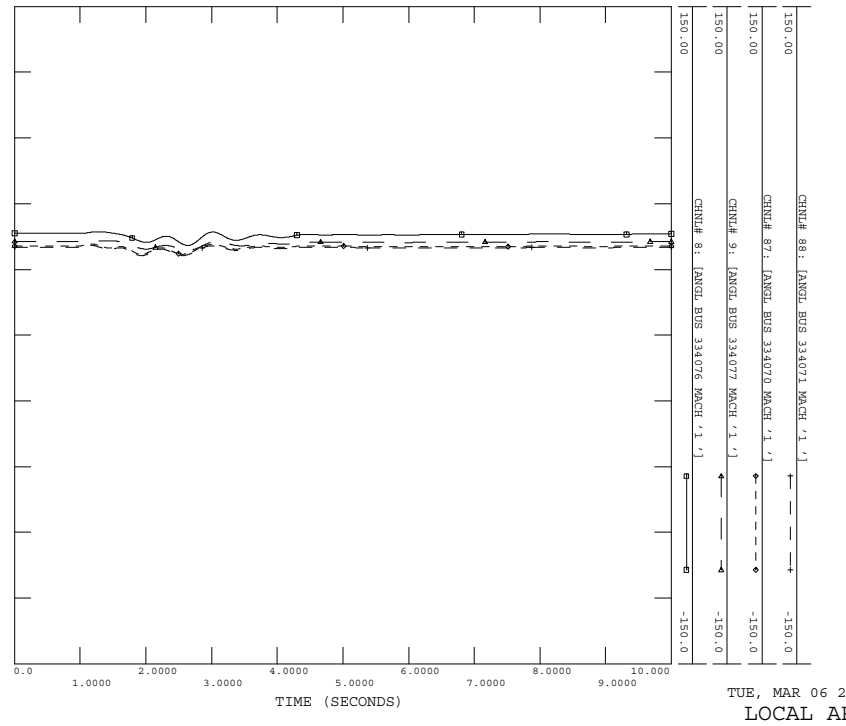
1 phase fault on the Grimes – Huntsville 138 kV

- a) Apply fault at Grimes 138kV bus
- b) Clear fault after 6 cycles by tripping the Grimes – Huntsville 138 kV
- c) Breaker (16630) Stuck at Grimes
- d) Clear fault after 13 cycles by tripping the Grimes – Navasota 138 kV

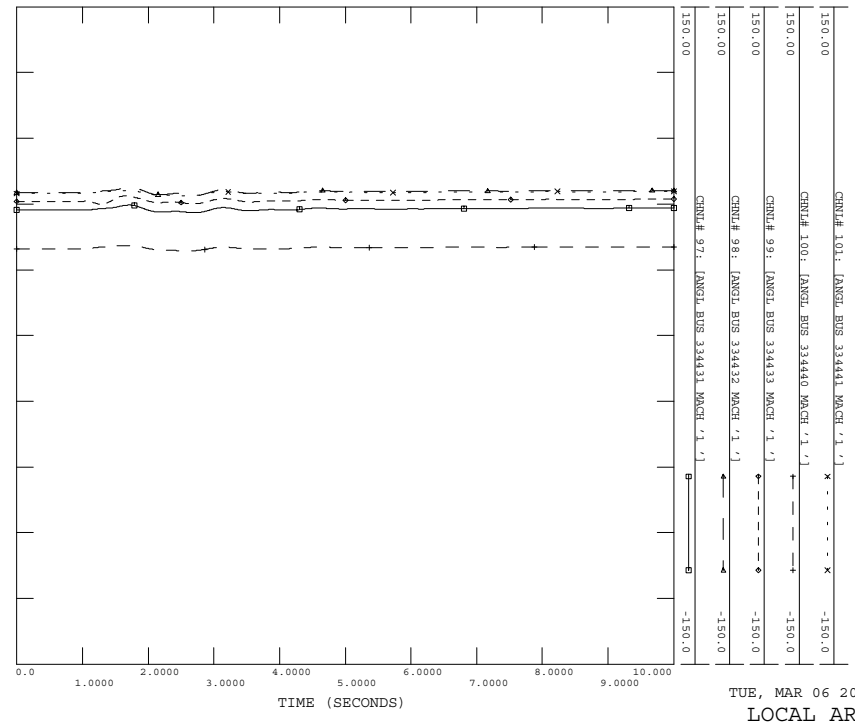
6+130Y SIG STOCKERK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



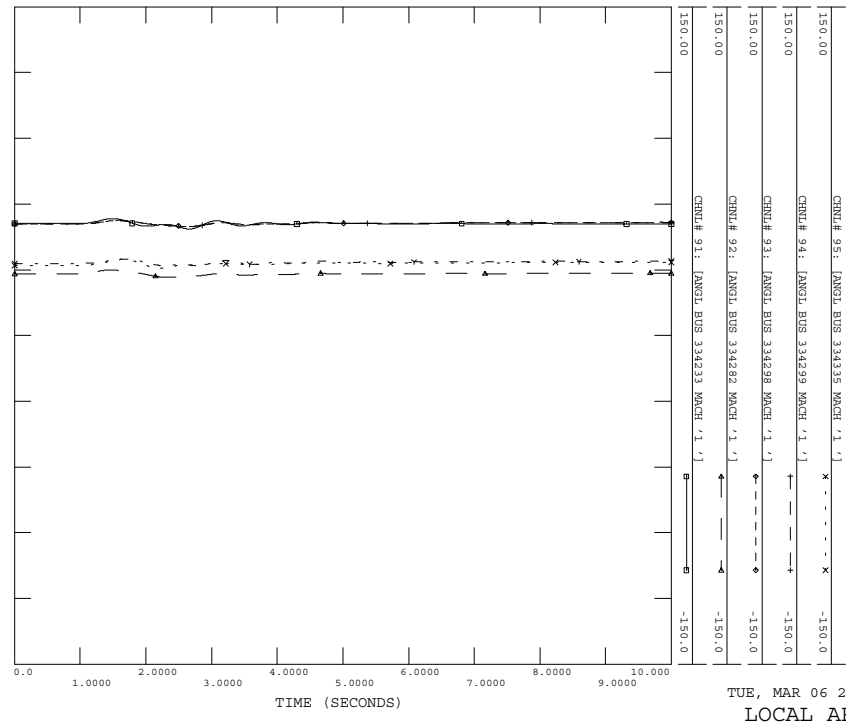
6+130Y SIG STOCKERK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



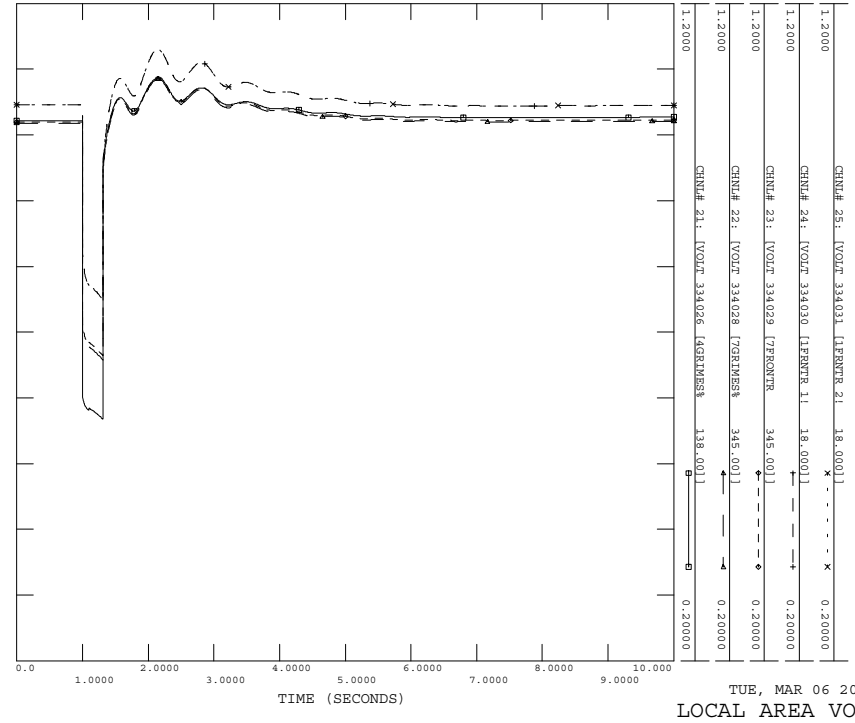
6+130Y SIG STOCKERK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



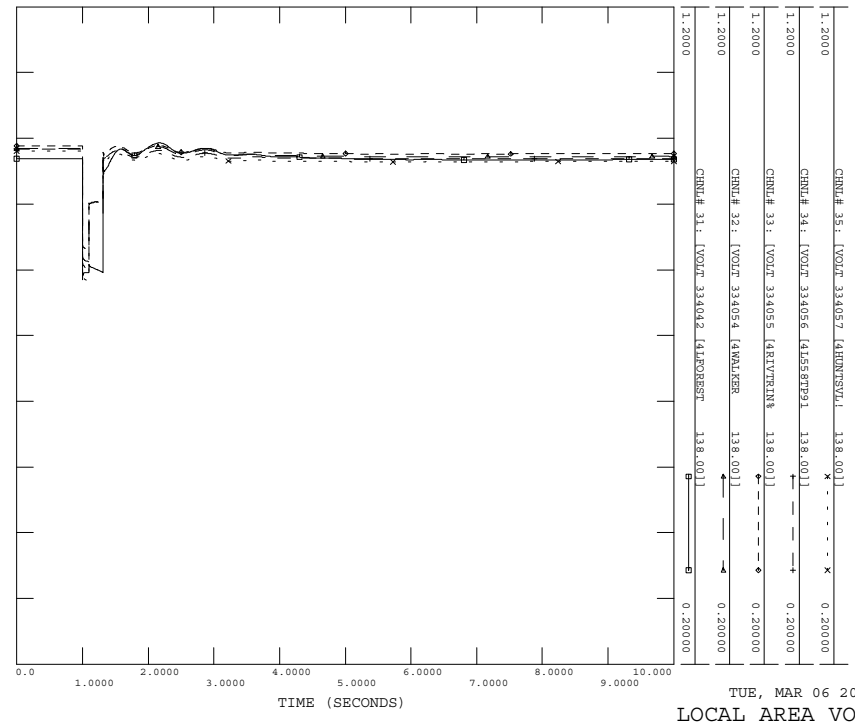
6+130Y SIG STOCKERK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



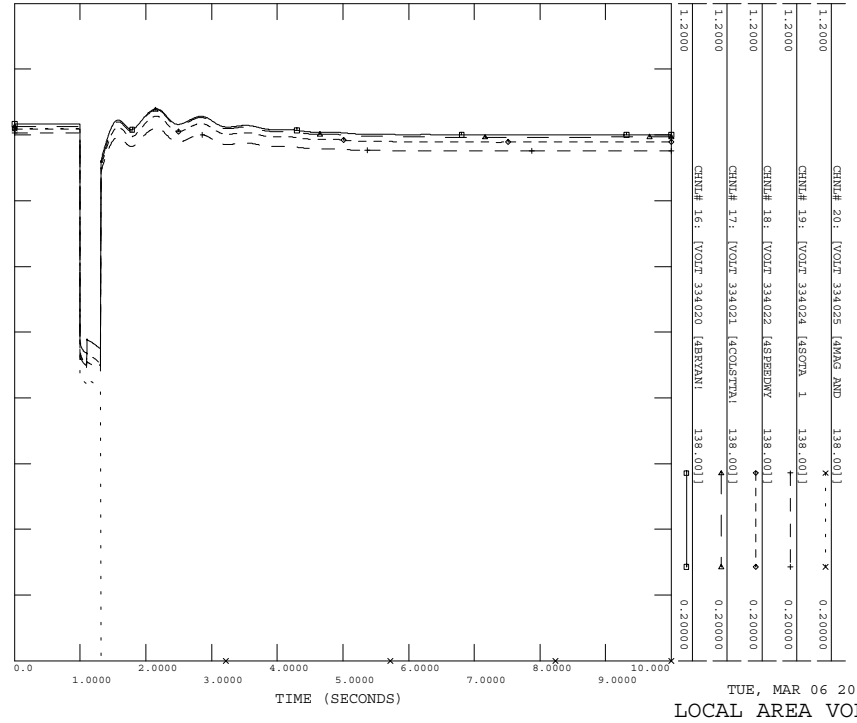
6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



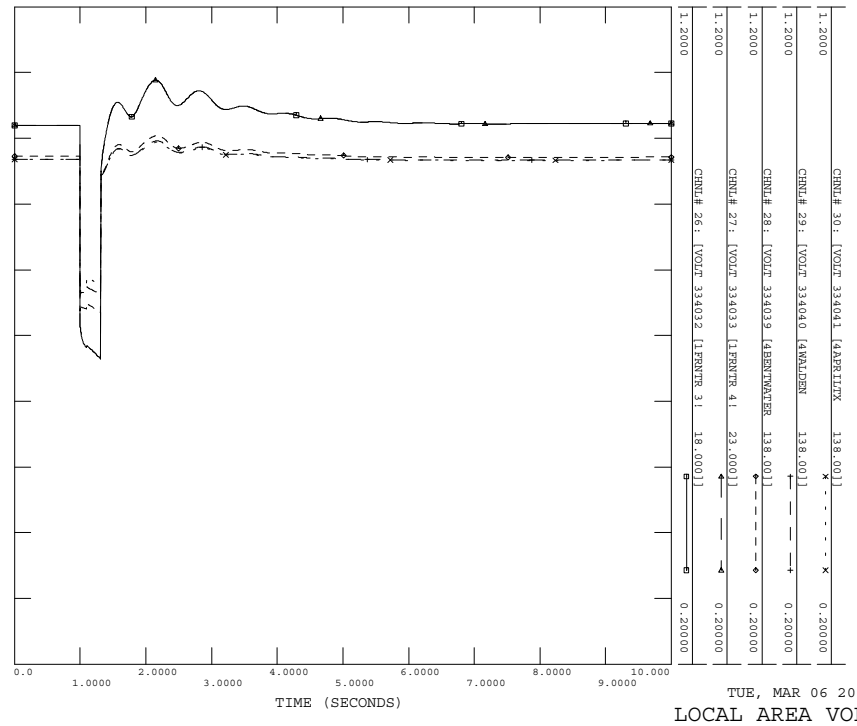
6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



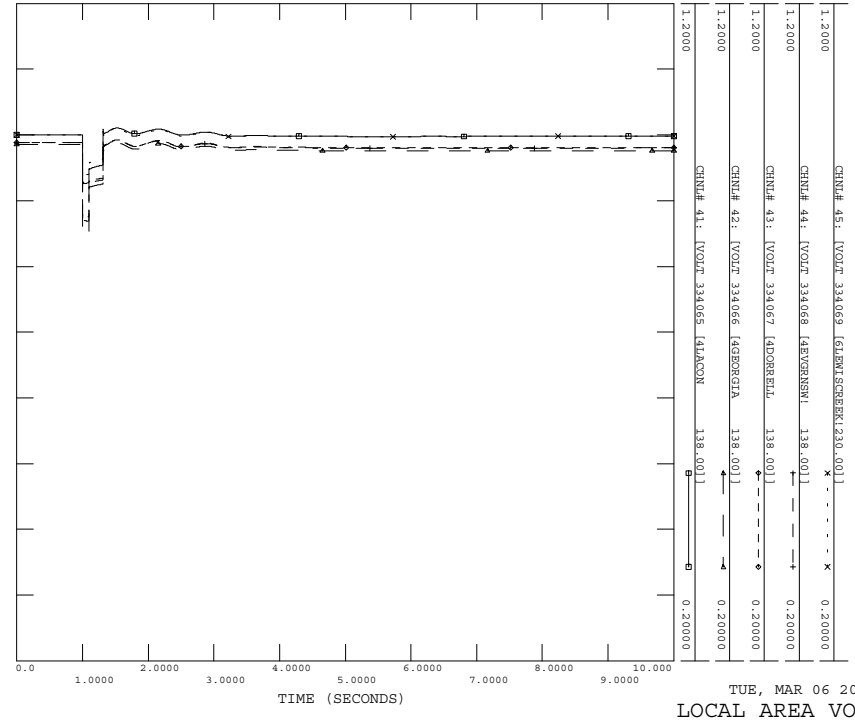
6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT

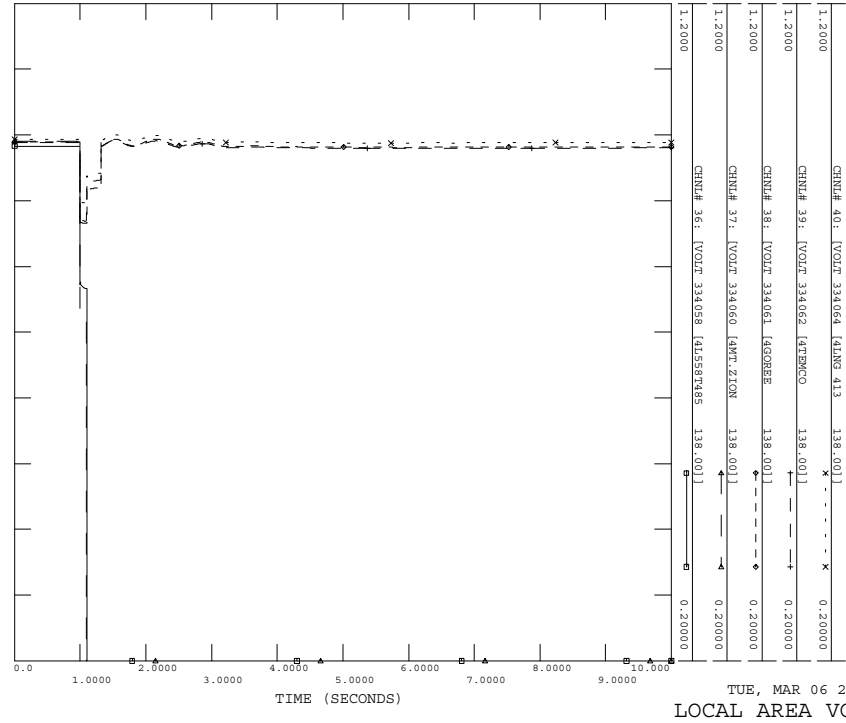


6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



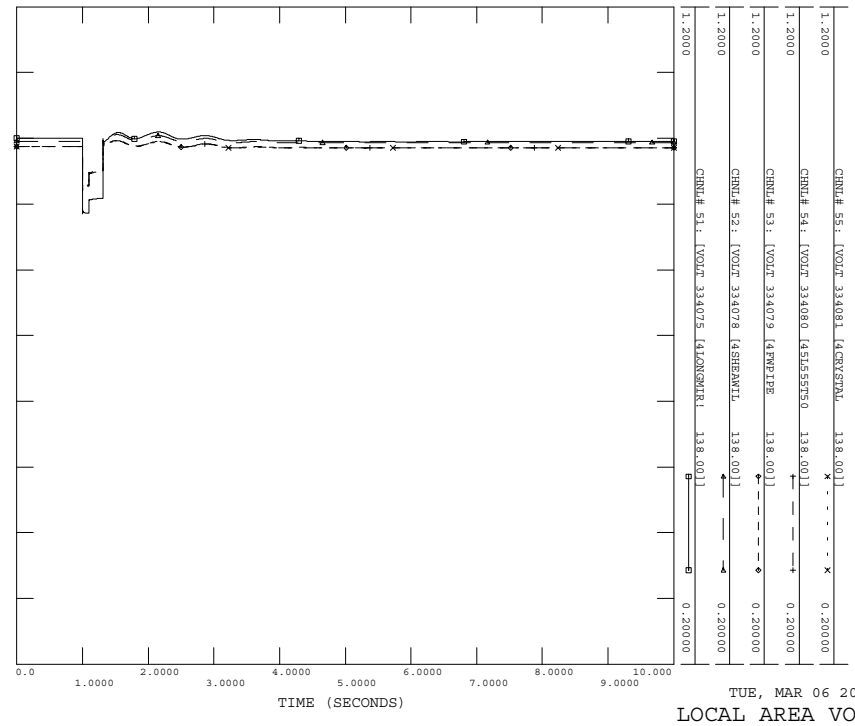
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



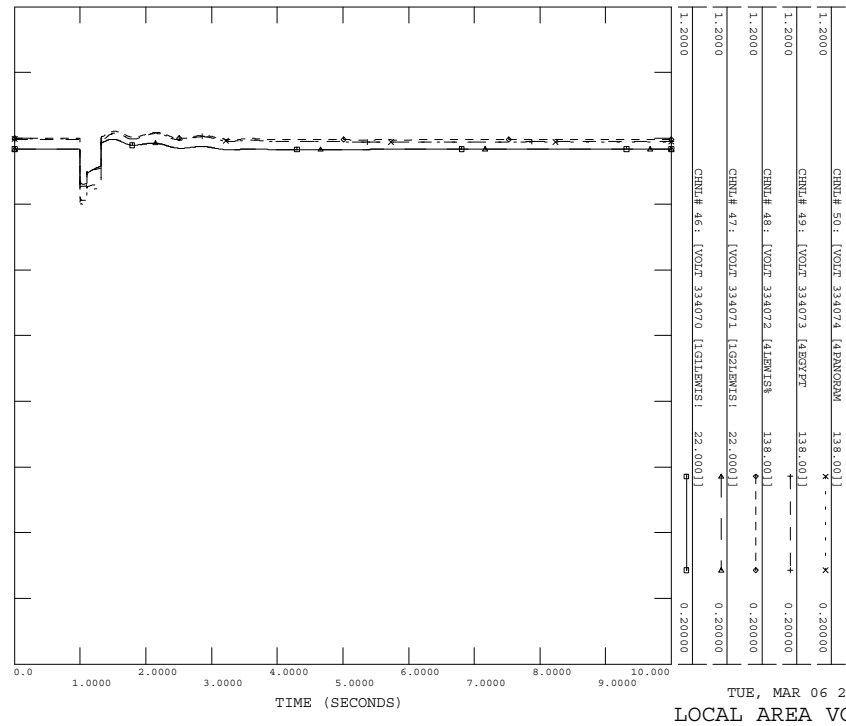
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



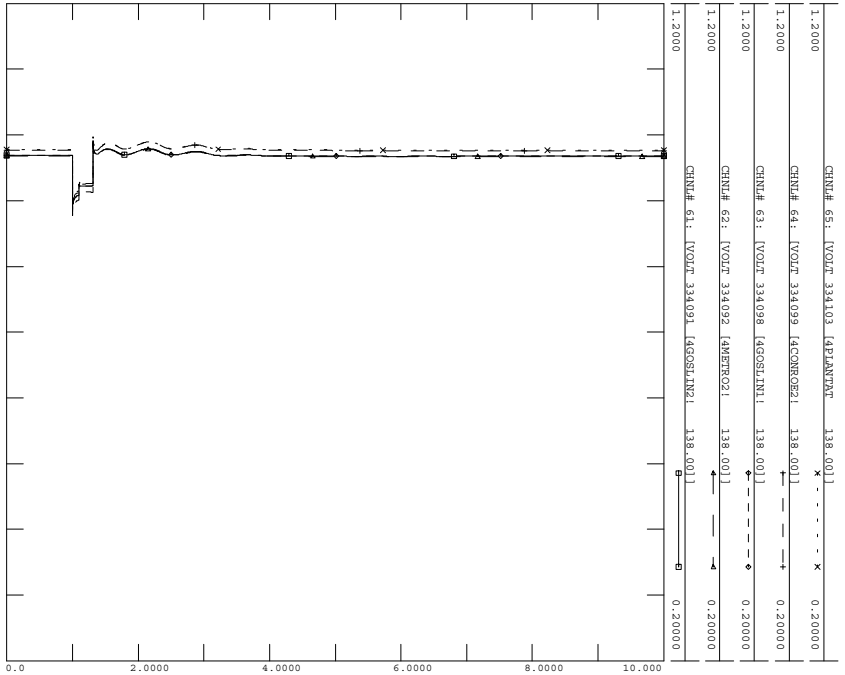
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



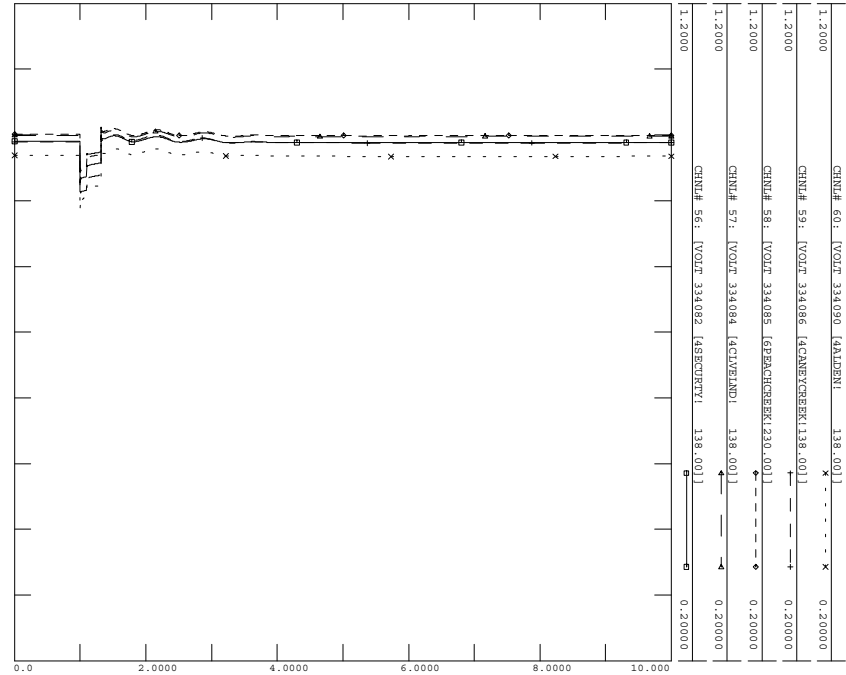
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



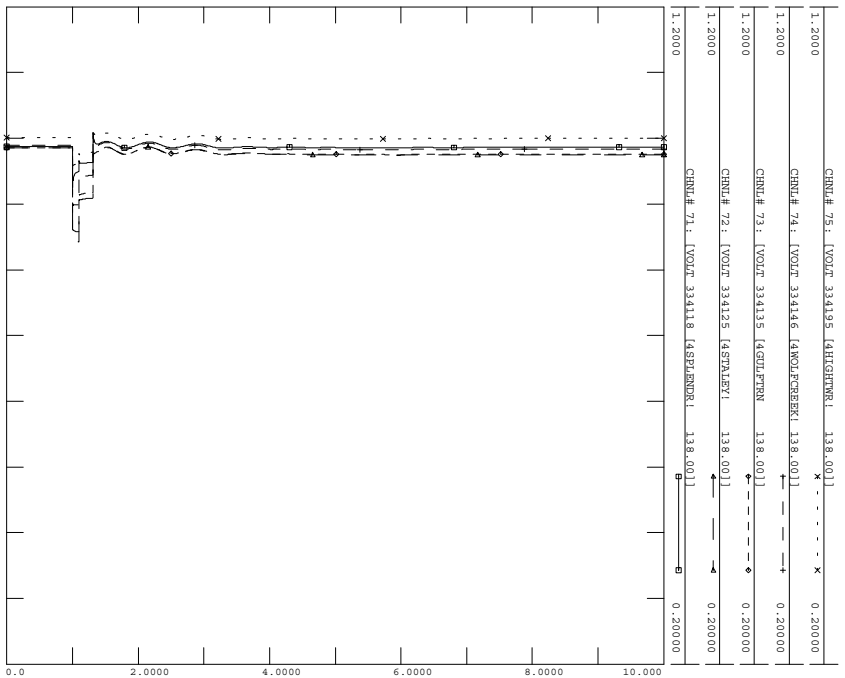
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



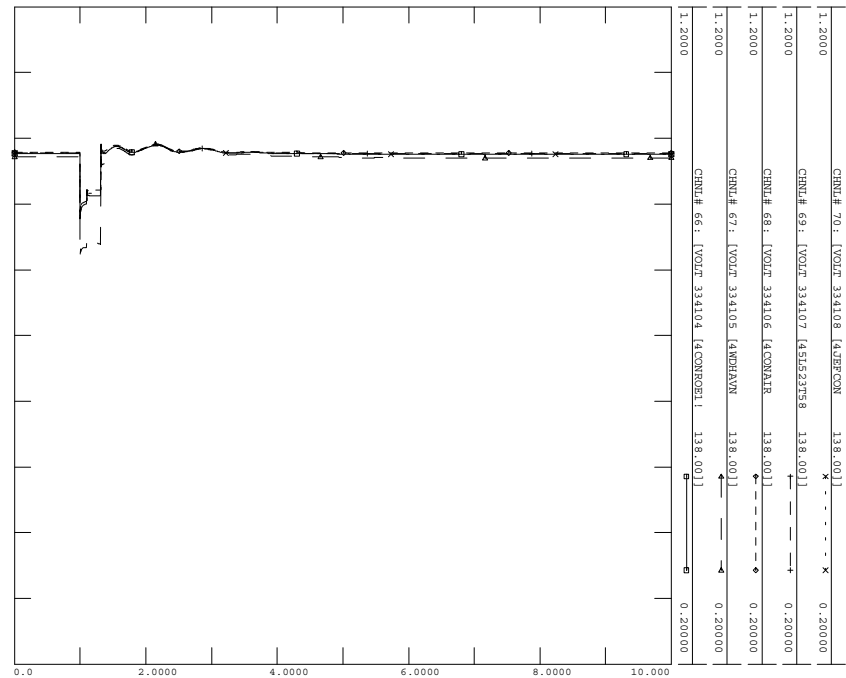
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



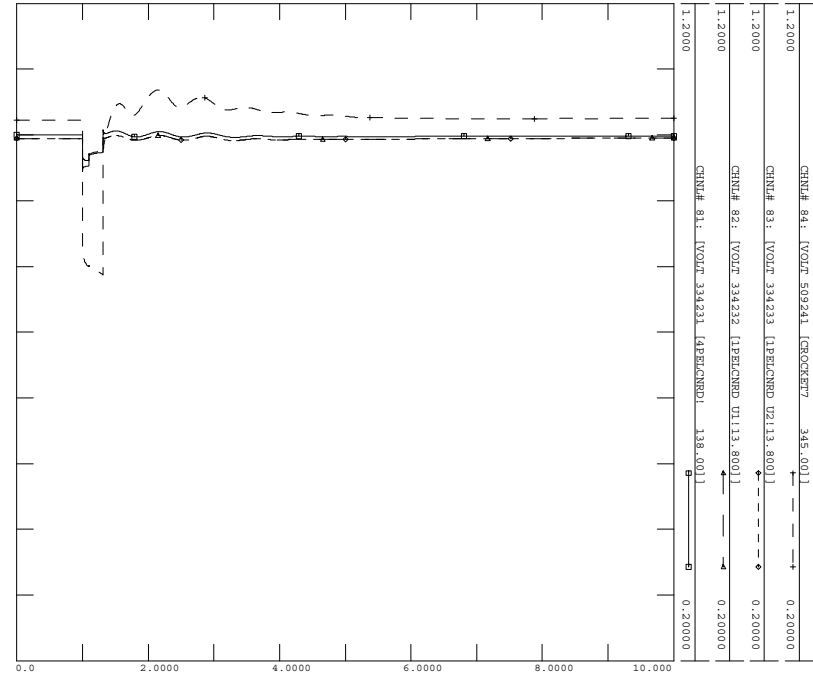
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



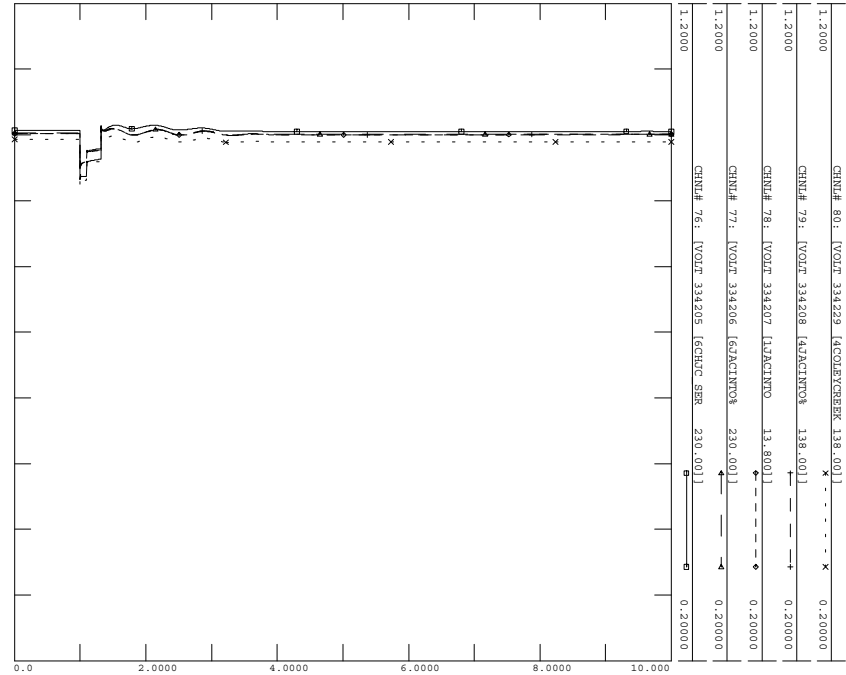
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CV SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



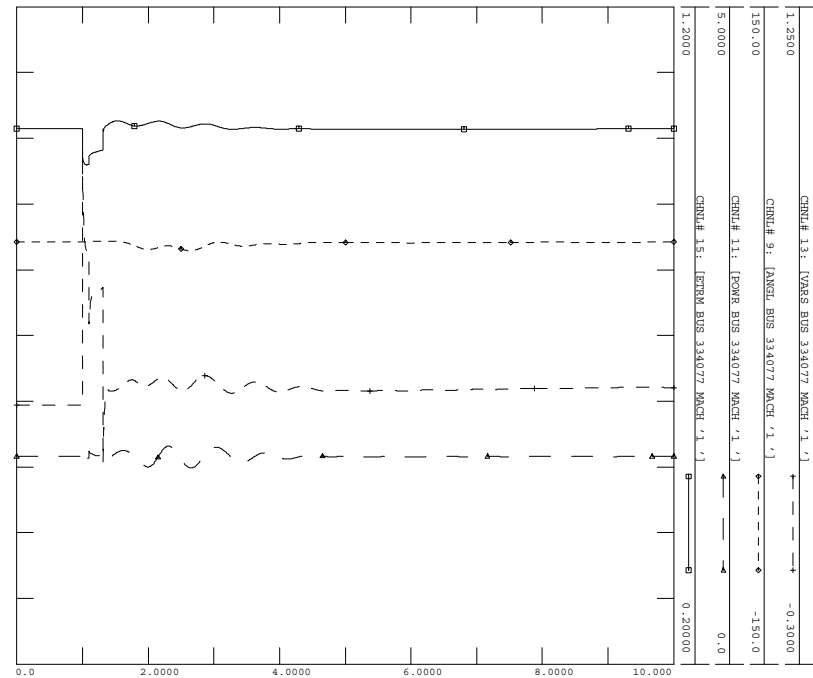
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CV SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



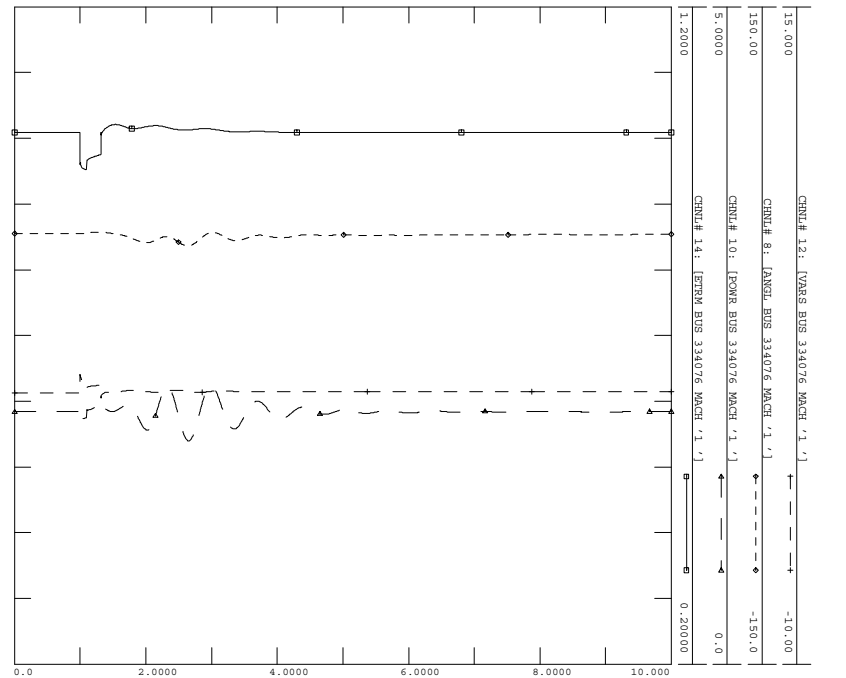
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CV SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



TUE, MAR 06 2012 11:02  
 PID287-ST

6+13CV SIG STOCKBRK GRIMES - HUNTSVILLE 138 KV  
 TRIP GRIMES - HUNTSVILLE, GRIMES - NAVASOTA 138 KV  
 FILE: Fault-12A.OUT



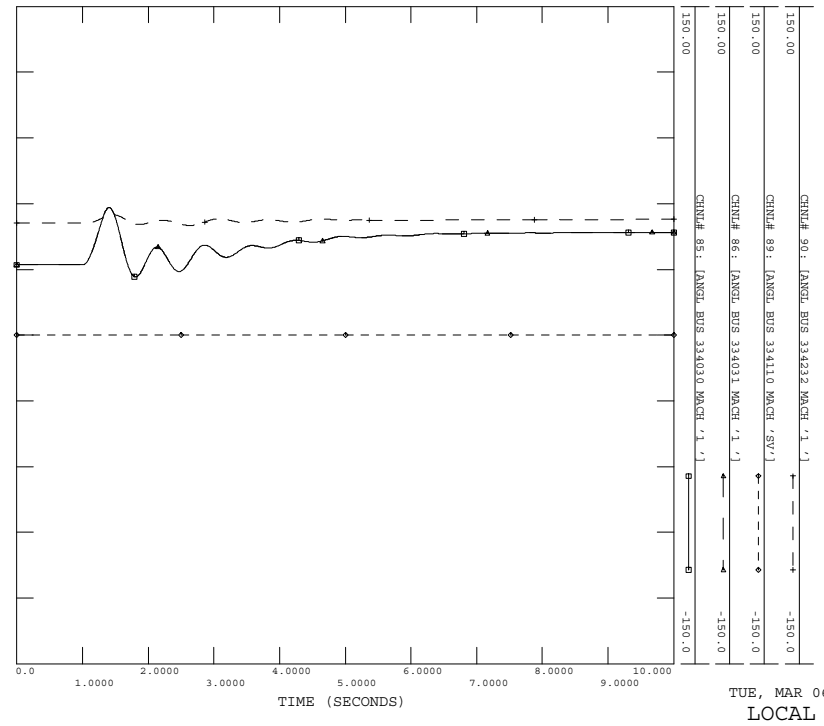
TUE, MAR 06 2012 11:02  
 PID287-GT

### **C.1.36      FAULT-13A**

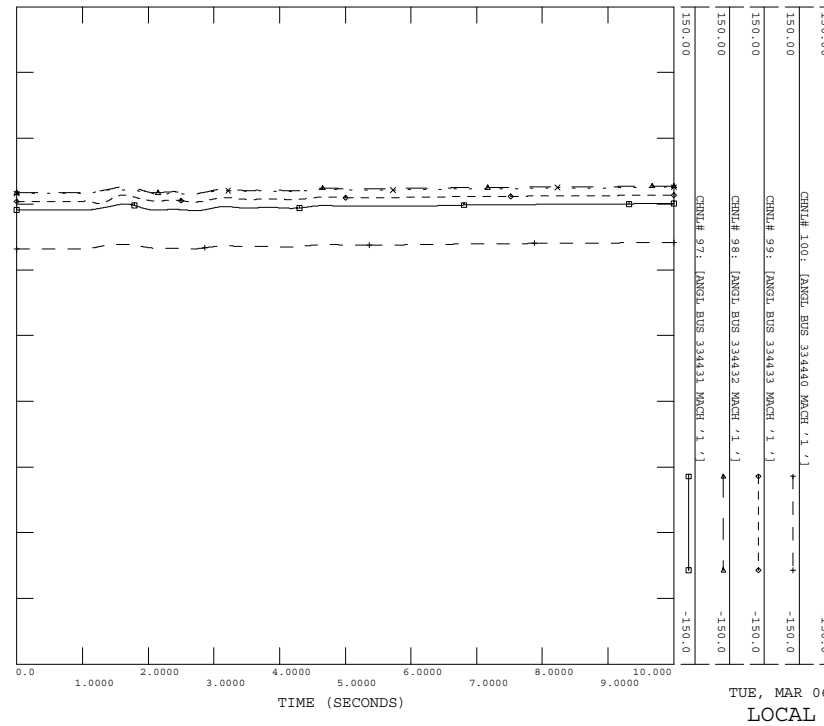
1 phase fault on the Grimes – Conroe Bulk 138 kV

- a) Apply fault at Grimes 138kV bus
- b) Clear fault after 6 cycles by tripping the Grimes – Conroe Bulk 138 kV
- c) Breaker (26280) Stuck at Grimes
- d) Clear fault after 13 cycles by tripping the Grimes – College Station Jn 138 kV , Grimes – Navasota 138 kV

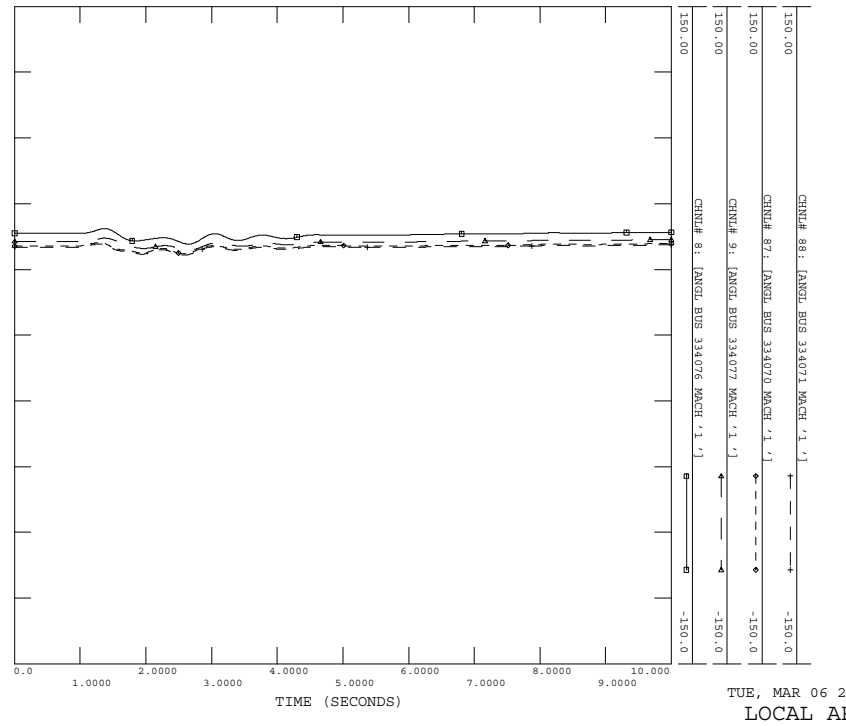
6+13CY SIG STUCKERK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT



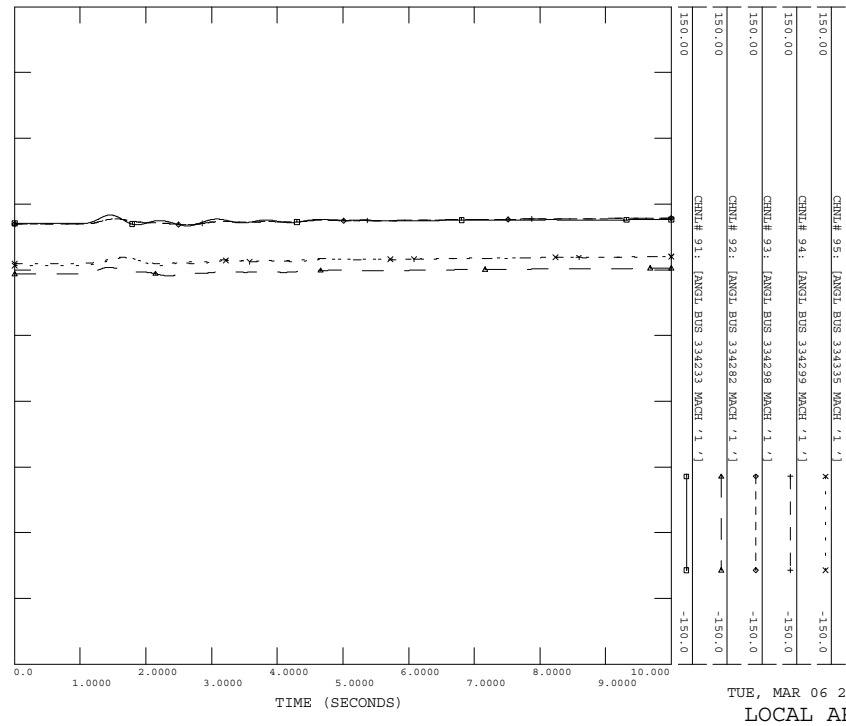
6+13CY SIG STUCKERK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT



6+13CY SIG STUCKERK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT

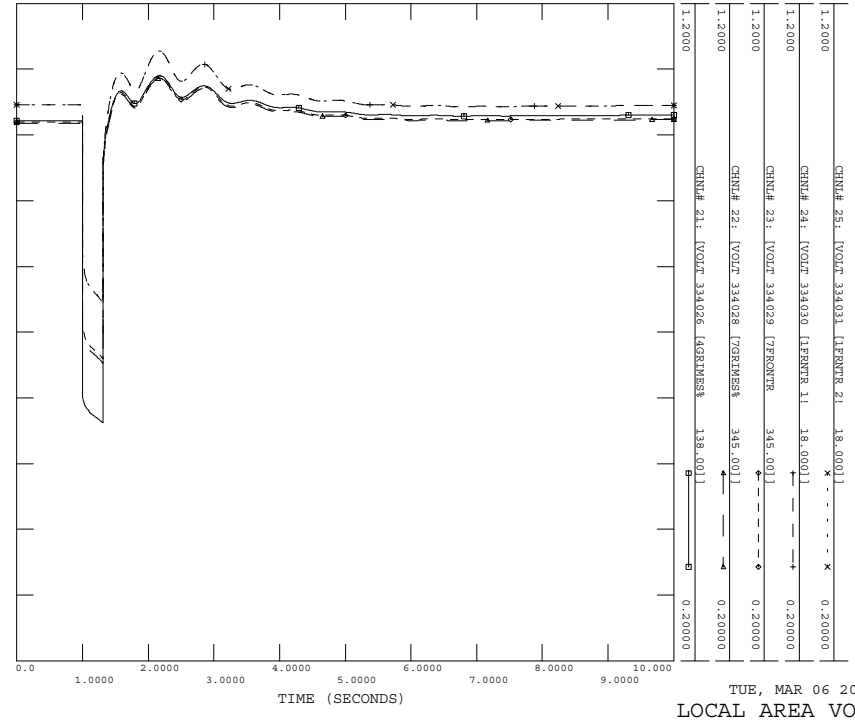


6+13CY SIG STUCKERK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT

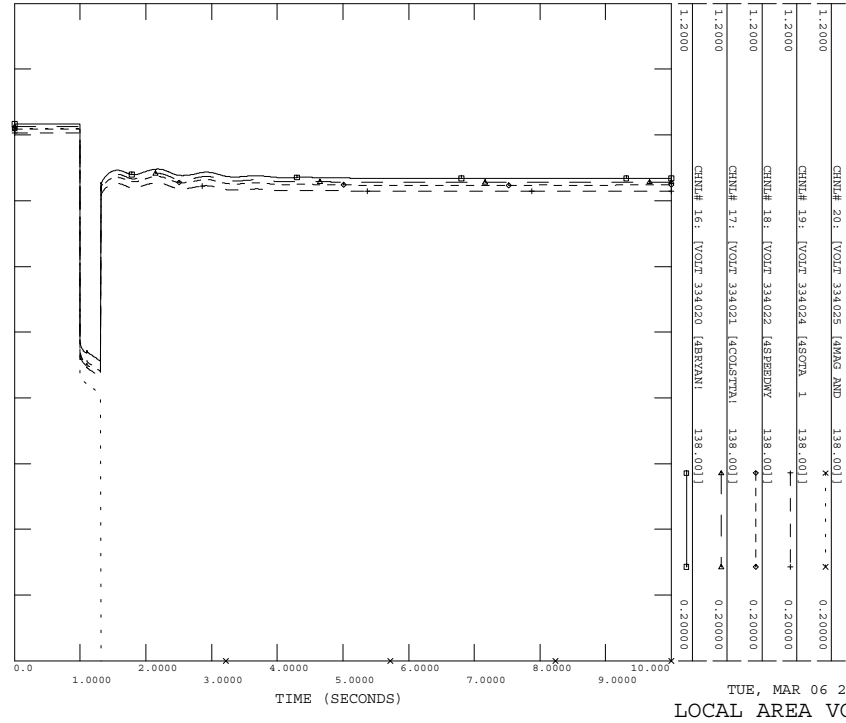




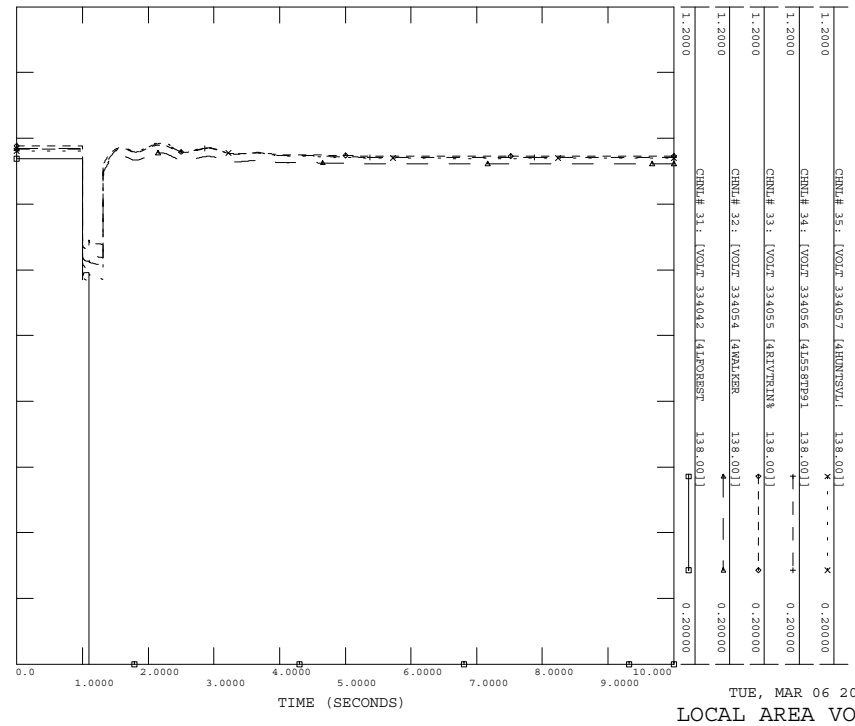
6+13CY SIG STUCKERR GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLEGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



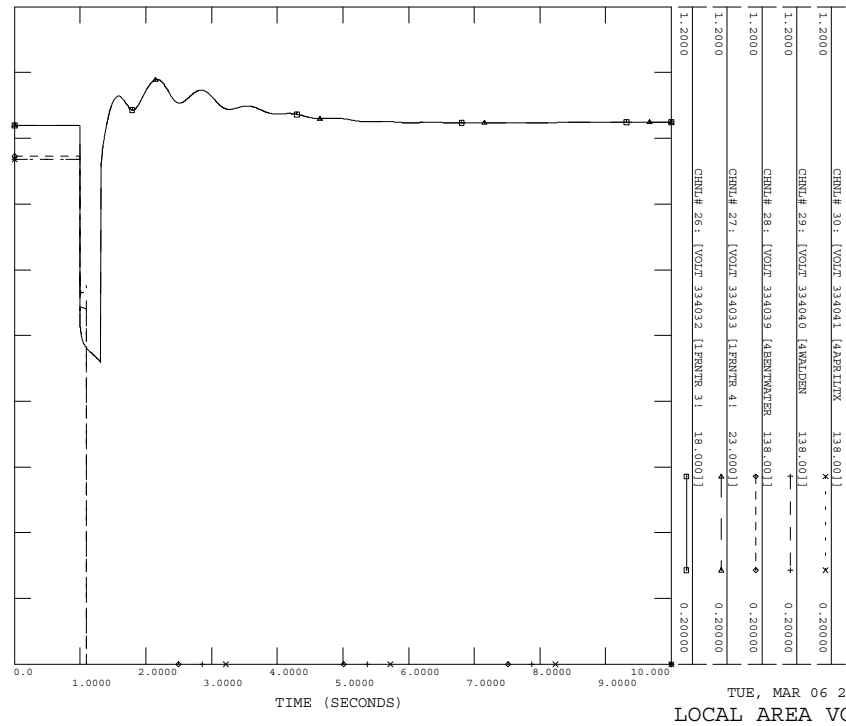
6+13CY SIG STUCKERR GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLEGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



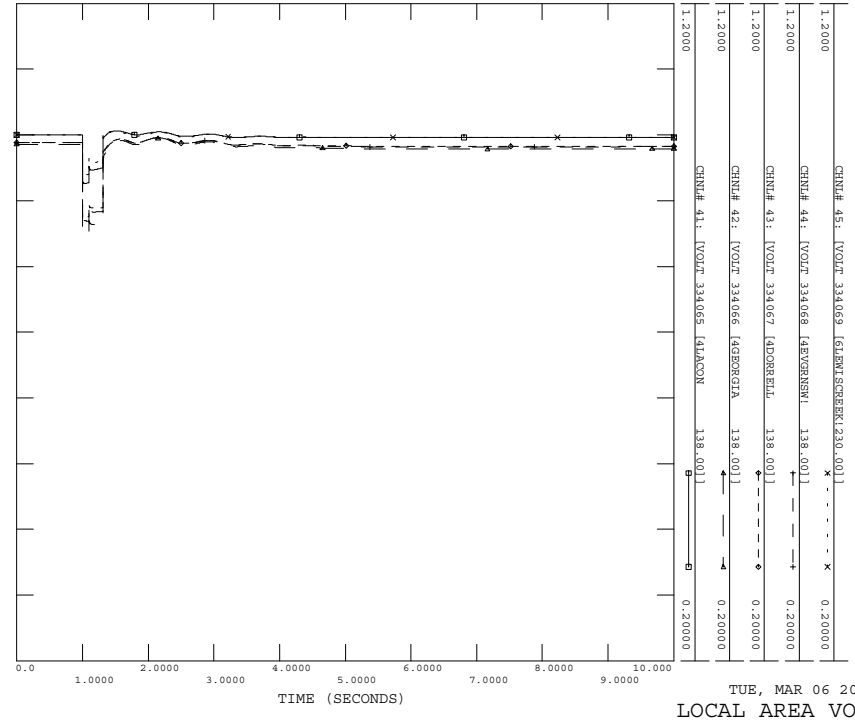
6+13CY SIG STUCKERR GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLEGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



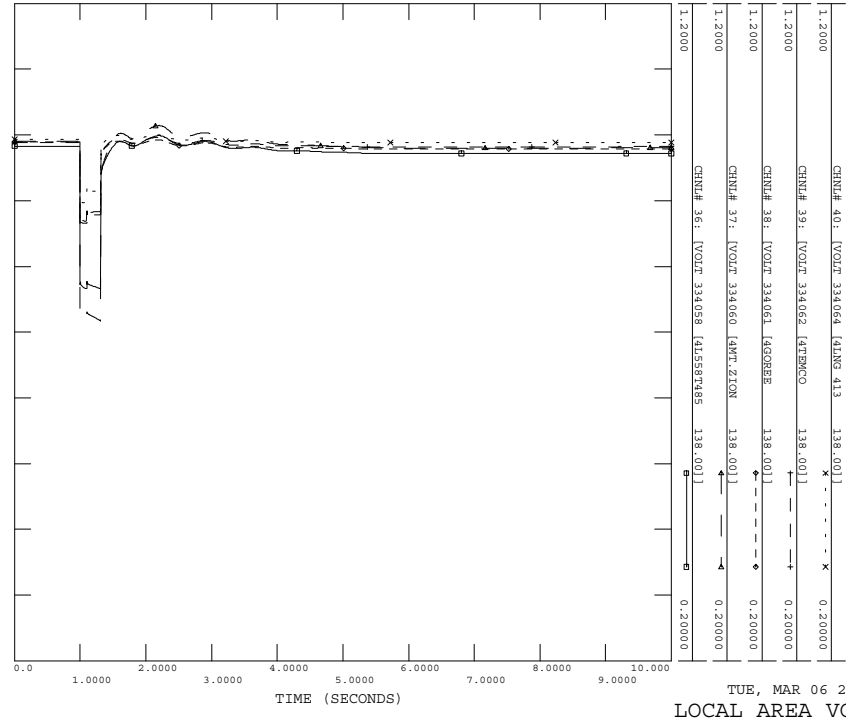
6+13CY SIG STUCKERR GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLEGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



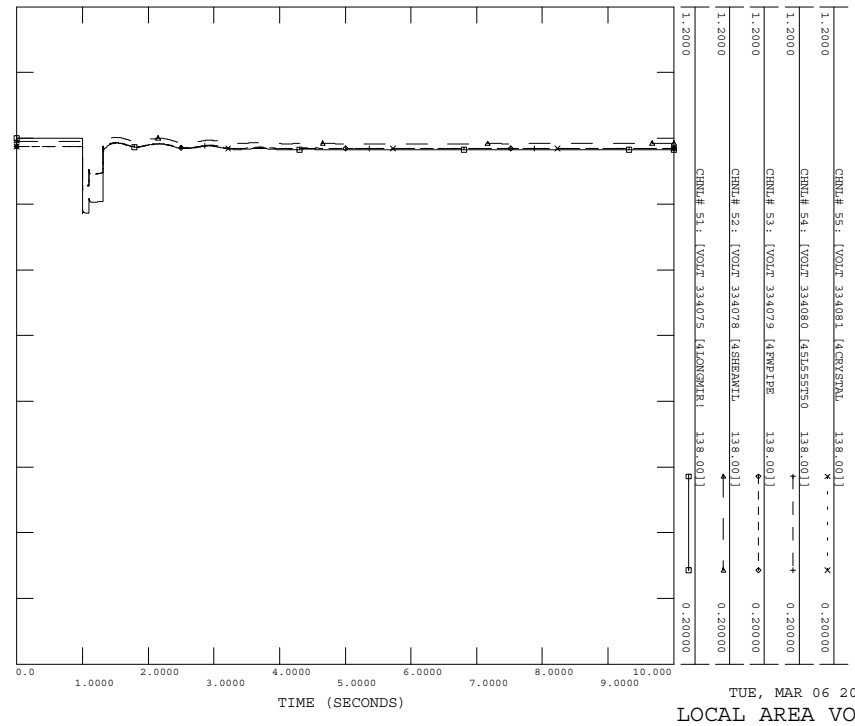
6+13CY SIG STUCKERR GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



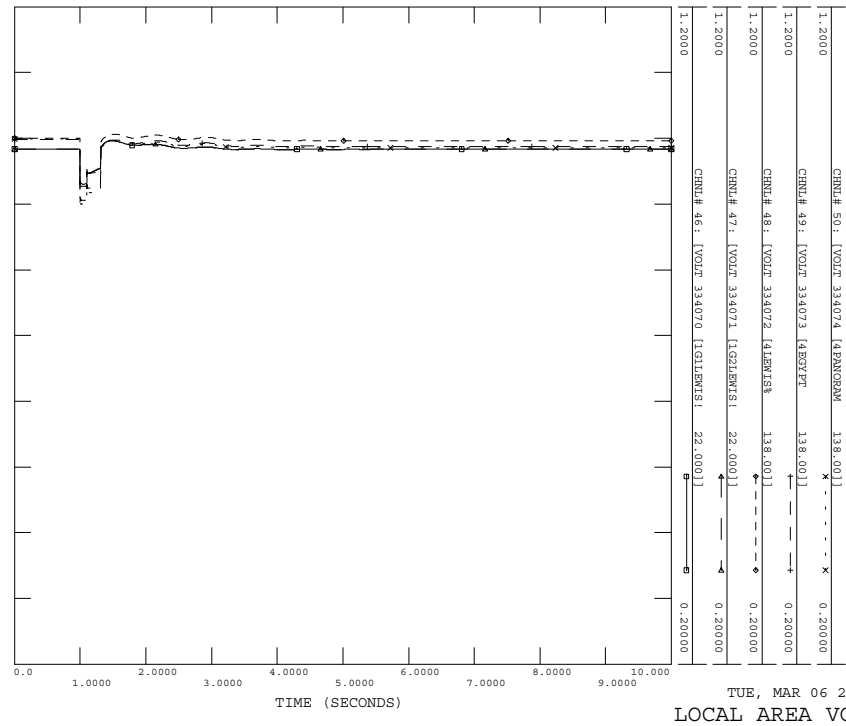
6+13CY SIG STUCKERR GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



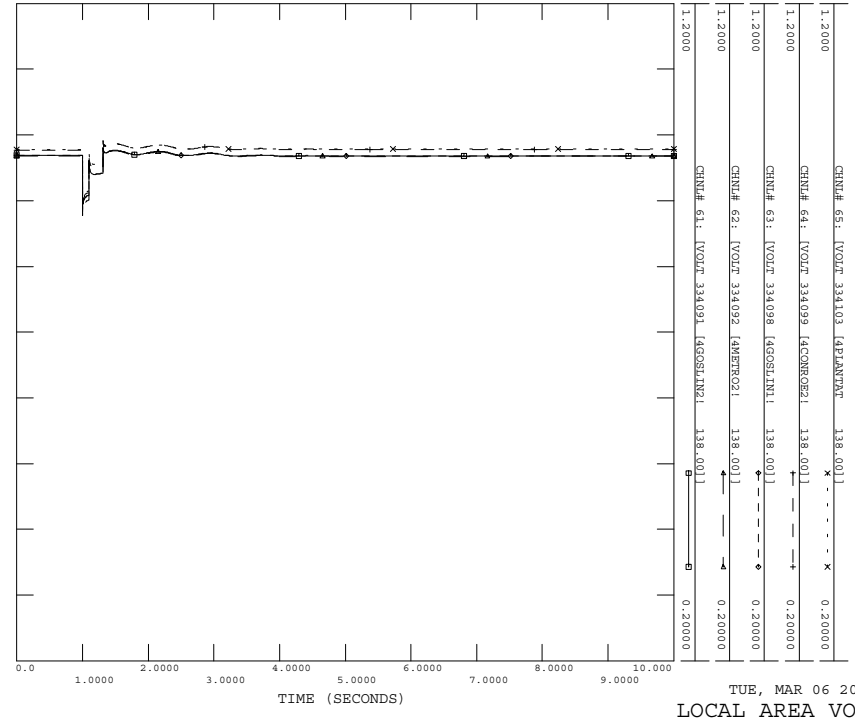
6+13CY SIG STUCKERR GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



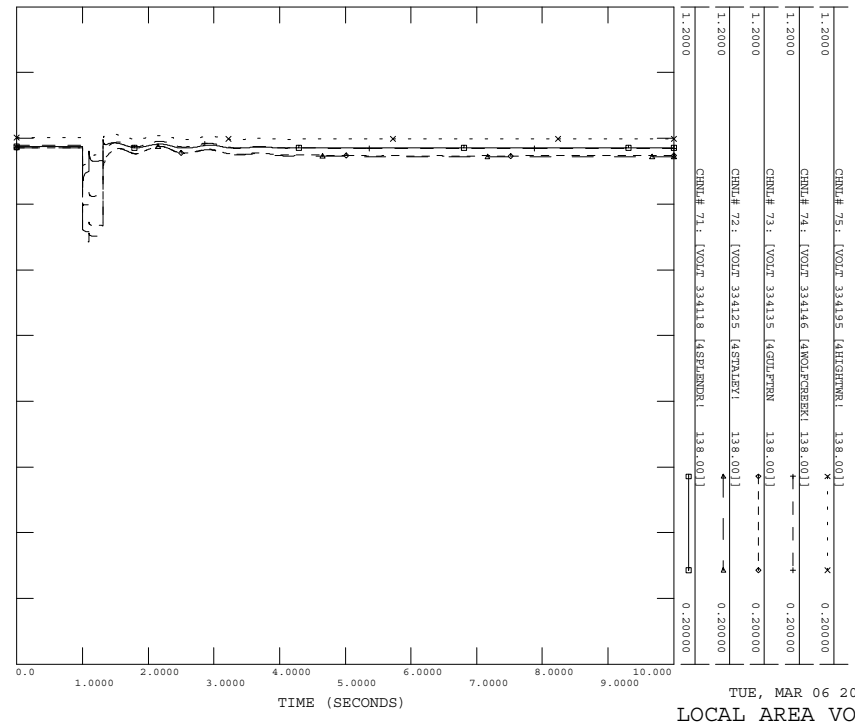
6+13CY SIG STUCKERR GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



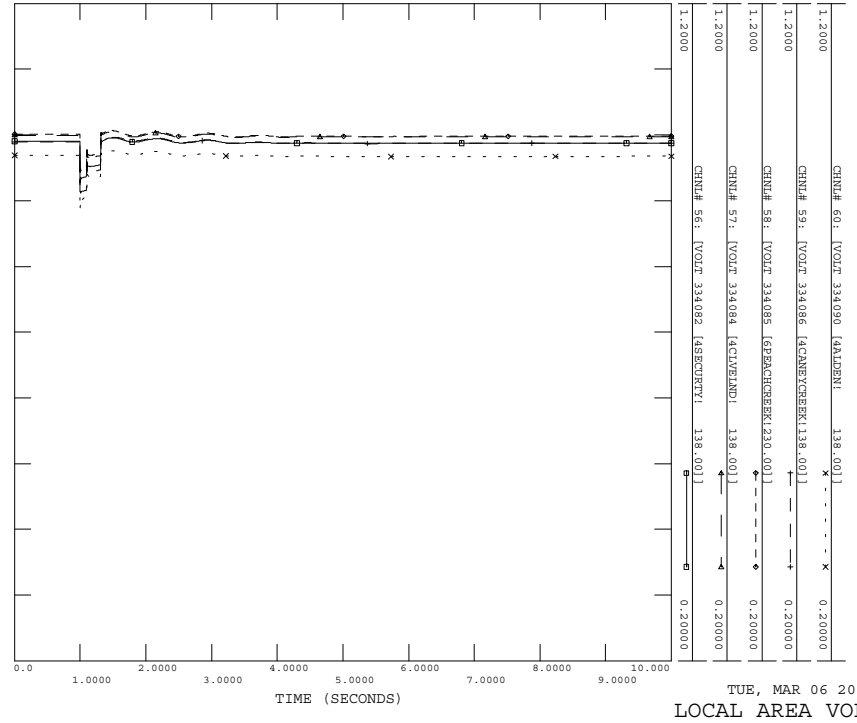
6+13CY SIG STUCKBRK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT



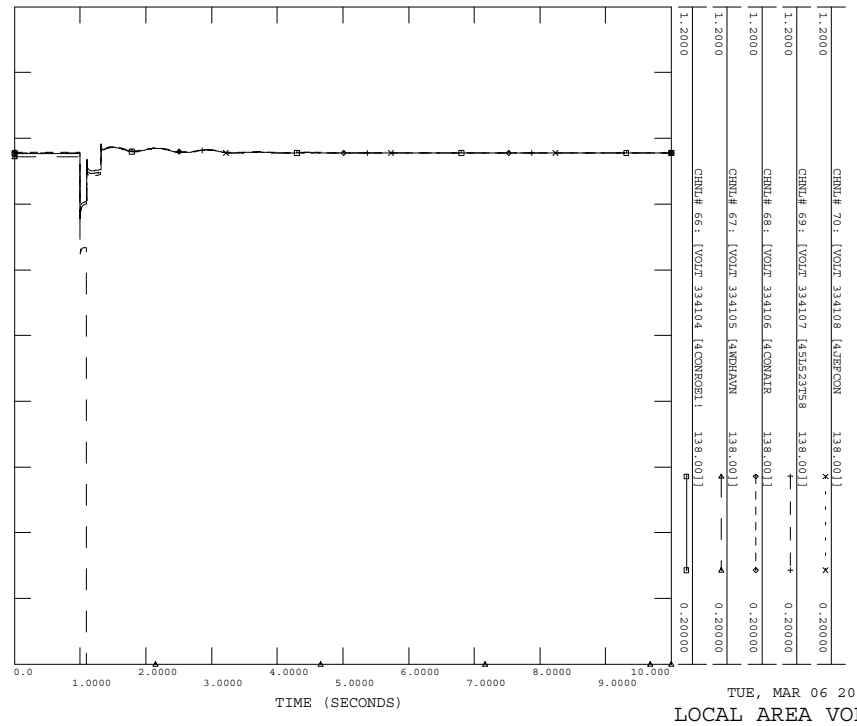
6+13CY SIG STUCKBRK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT



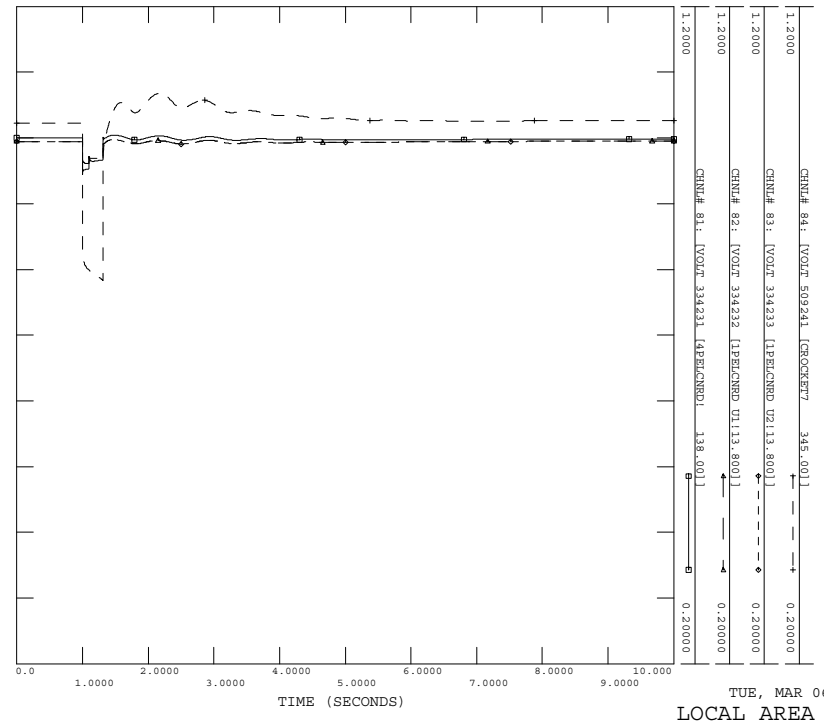
6+13CY SIG STUCKBRK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT



6+13CY SIG STUCKBRK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT

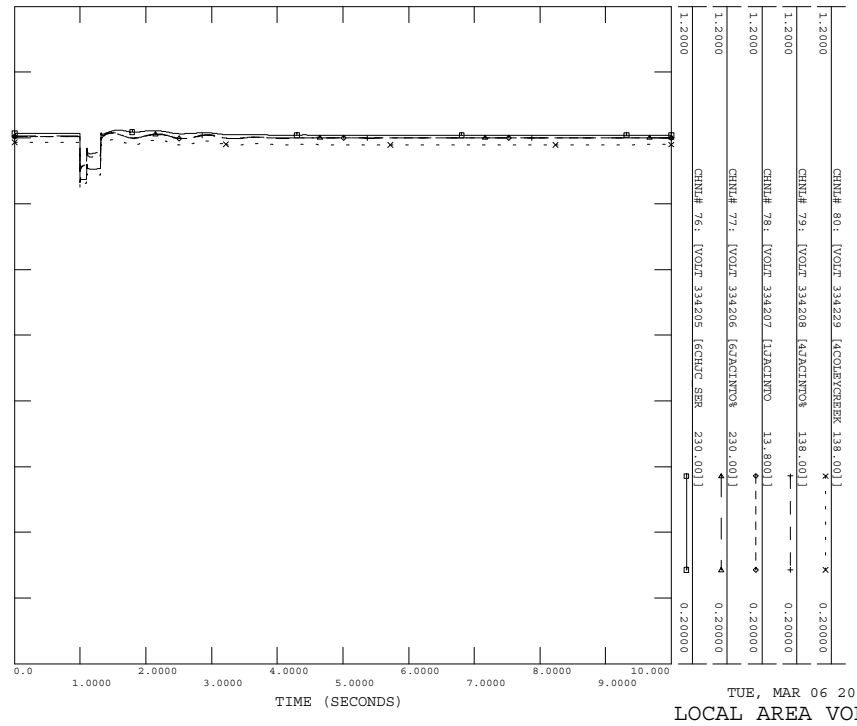


6+13CY SIG STUCKERK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



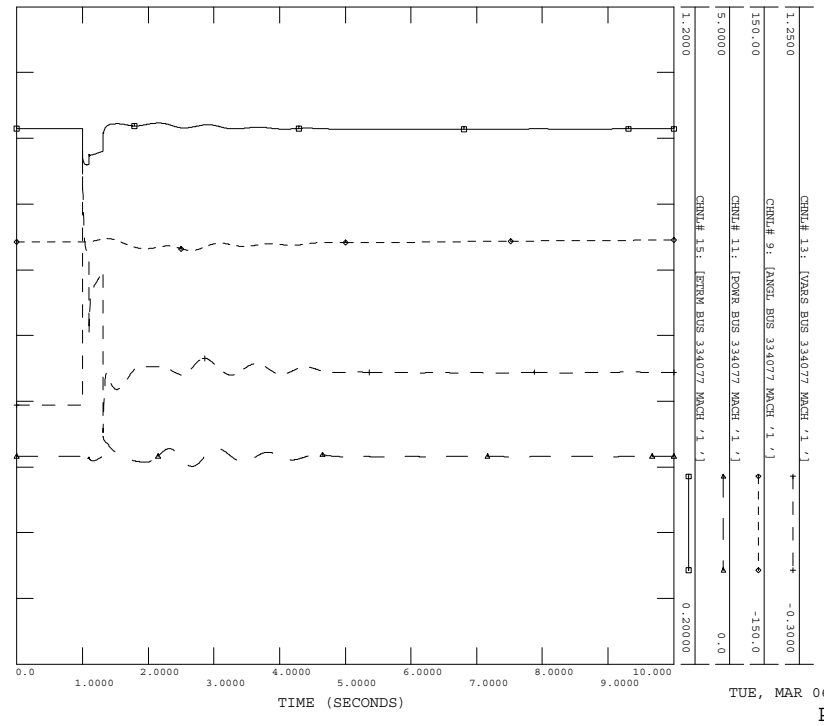
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKERK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



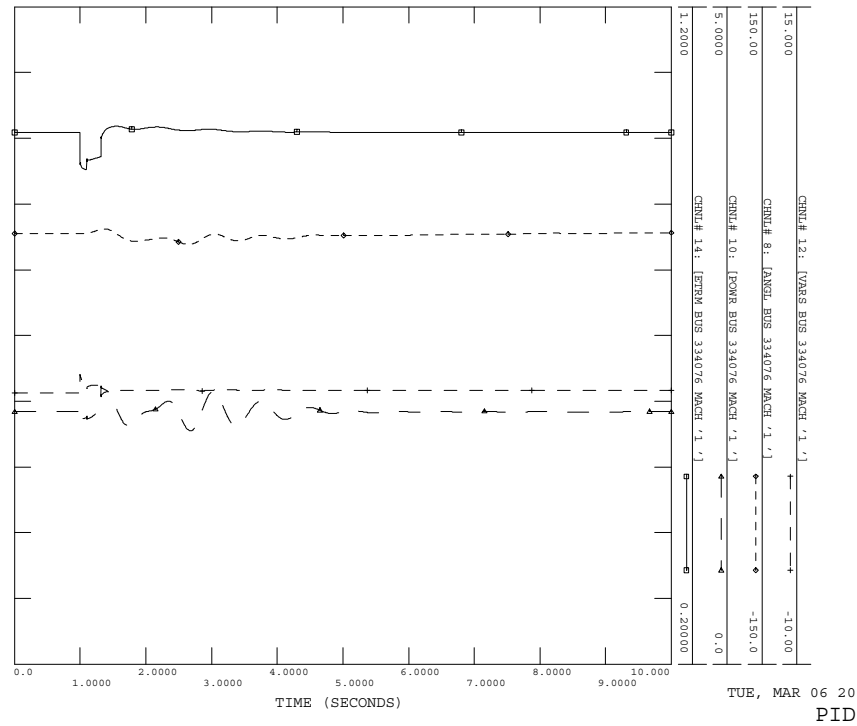
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKERK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



TUE, MAR 06 2012 11:02  
 PID287-ST

6+13CY SIG STUCKERK GRIMES - CONROE BULK 138 KV  
 TRIP GRIMES- CONRO BK, GRIMES- COLLIERGE SN, GRIMES-  
 FILE: Fault-13A.OUT NAV



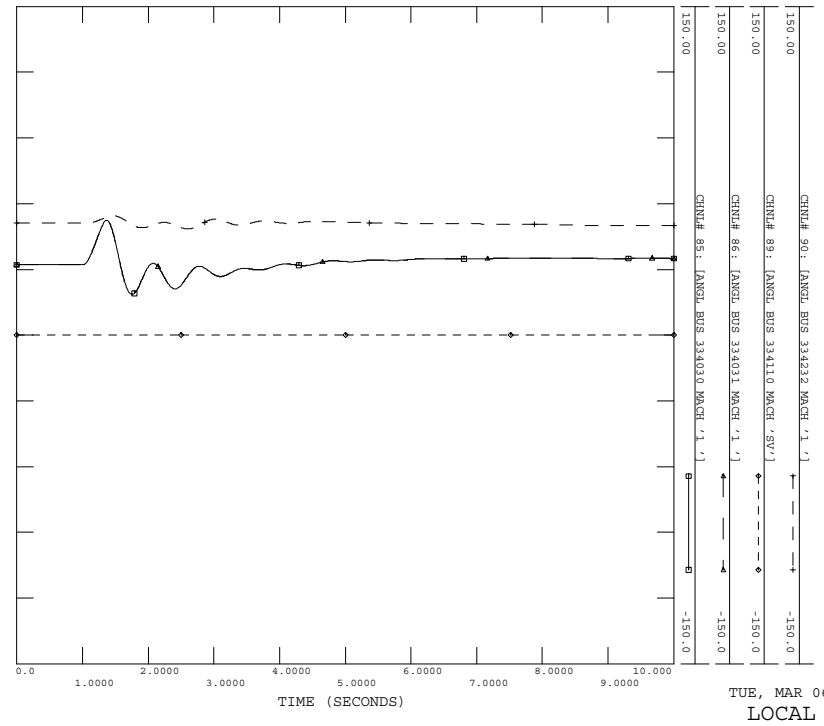
TUE, MAR 06 2012 11:02  
 PID287-GT

### **C.1.37      FAULT-14A**

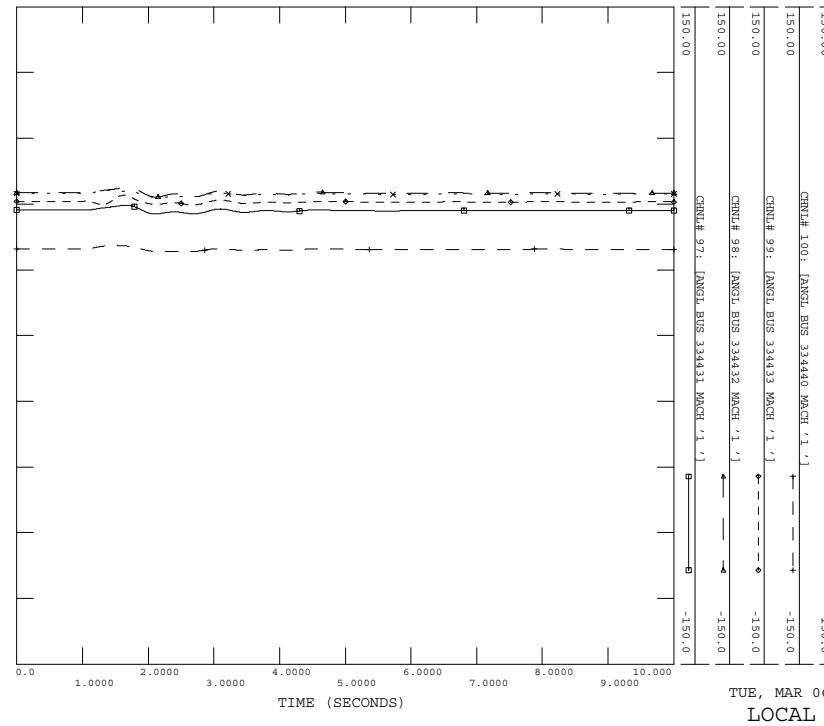
3 phase fault on the Grimes 345/138 kV auto trafo-1

- a) Apply fault at Grimes 138kV bus
- b) Clear fault after 6 cycles by tripping the Grimes 345/138 kV auto trafo-1
- c) Breaker (16615) Stuck at Grimes
- d) Clear fault after 13 cycles by tripping the Grimes – College Station Jn 138 kV

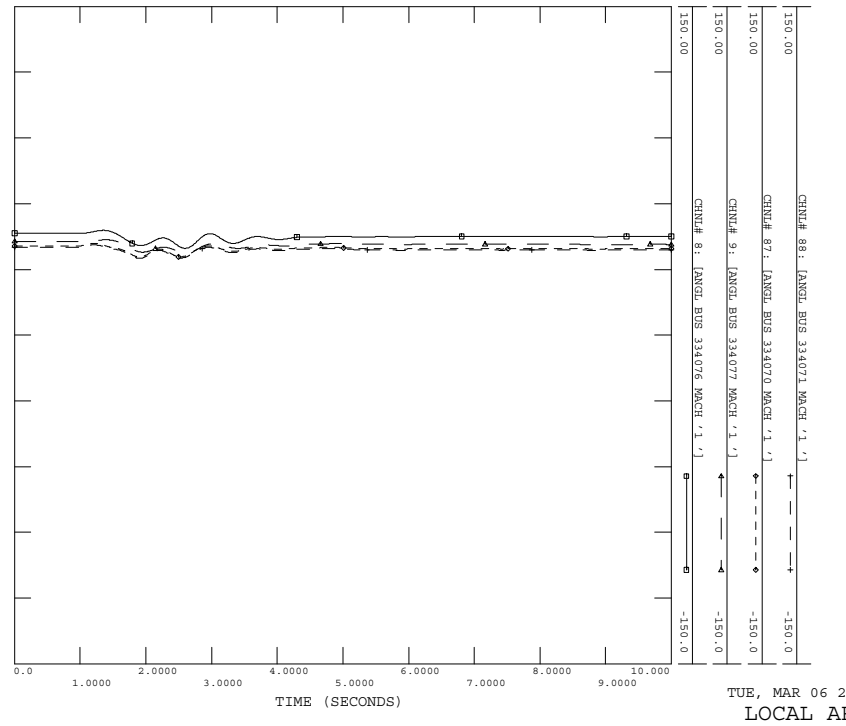
6+130Y SIG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



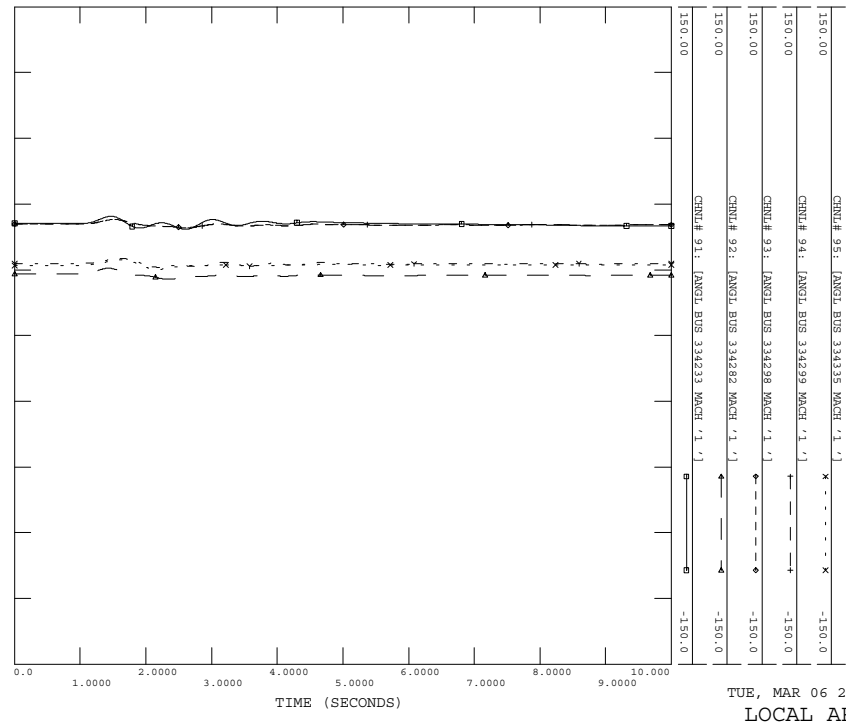
6+130Y SIG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



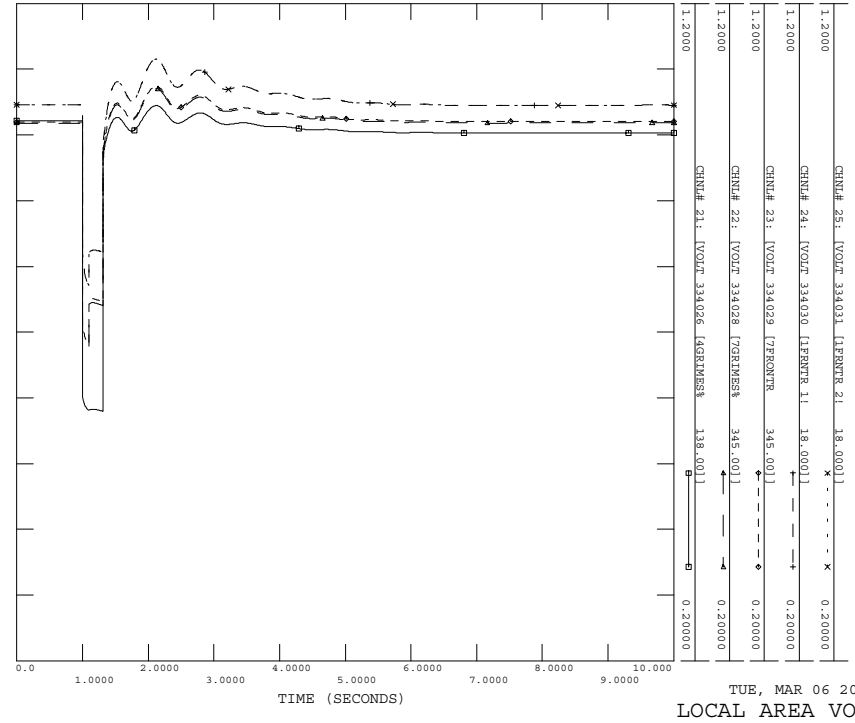
6+130Y SIG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



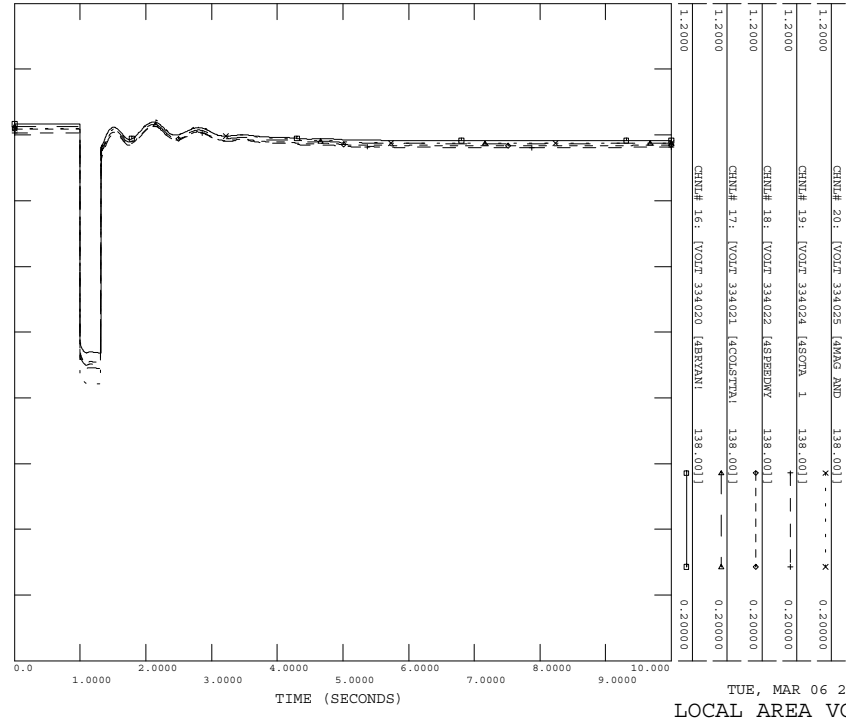
6+130Y SIG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



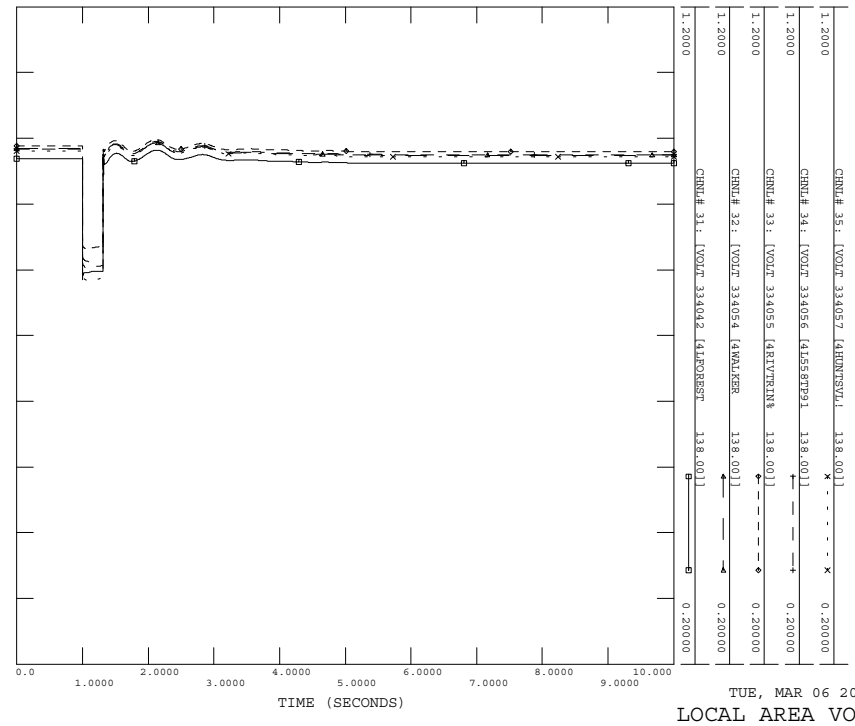
6+13CY SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



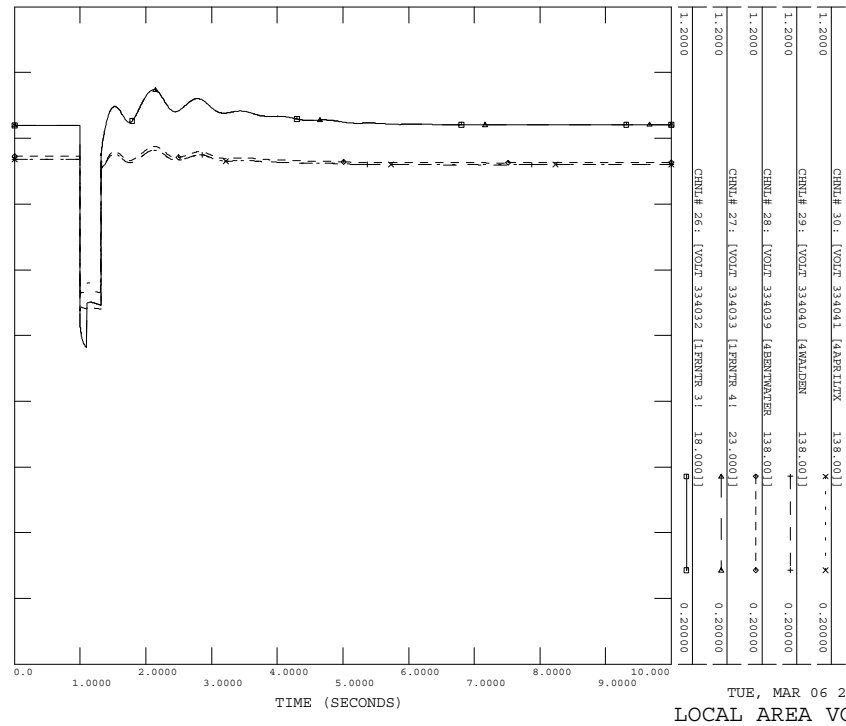
6+13CY SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



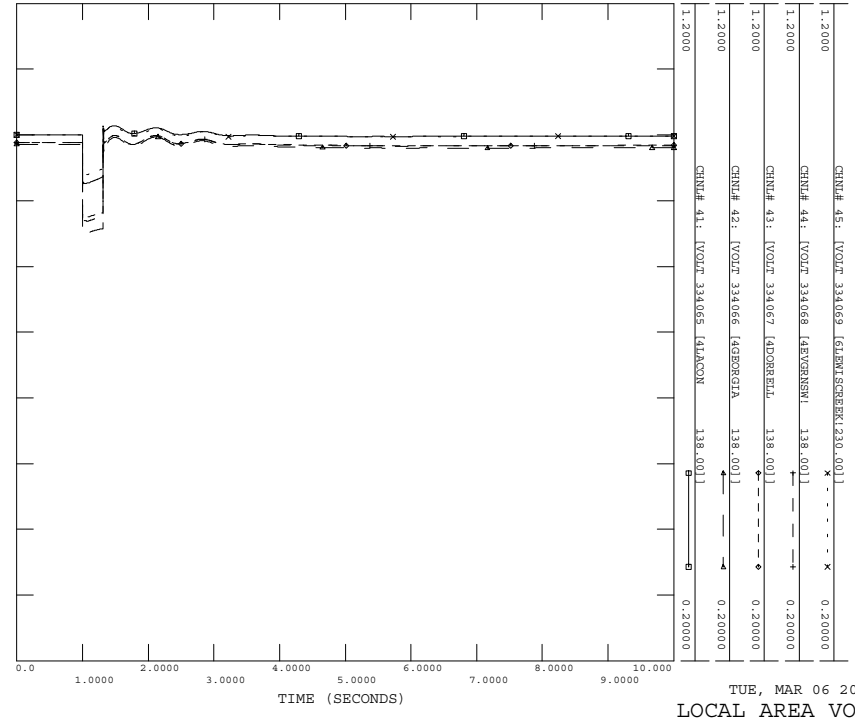
6+13CY SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



6+13CY SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT

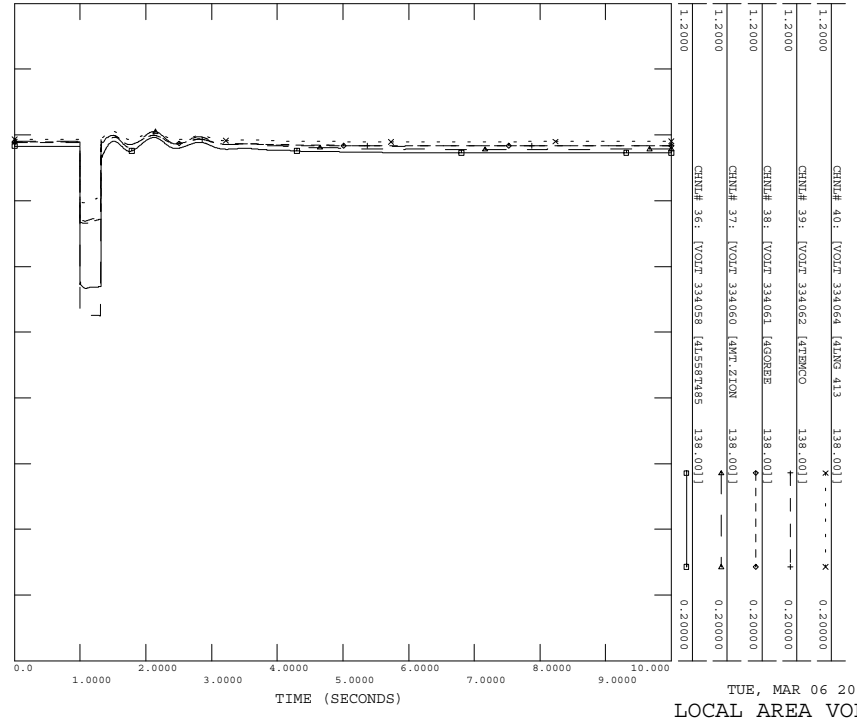


6+13CV SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



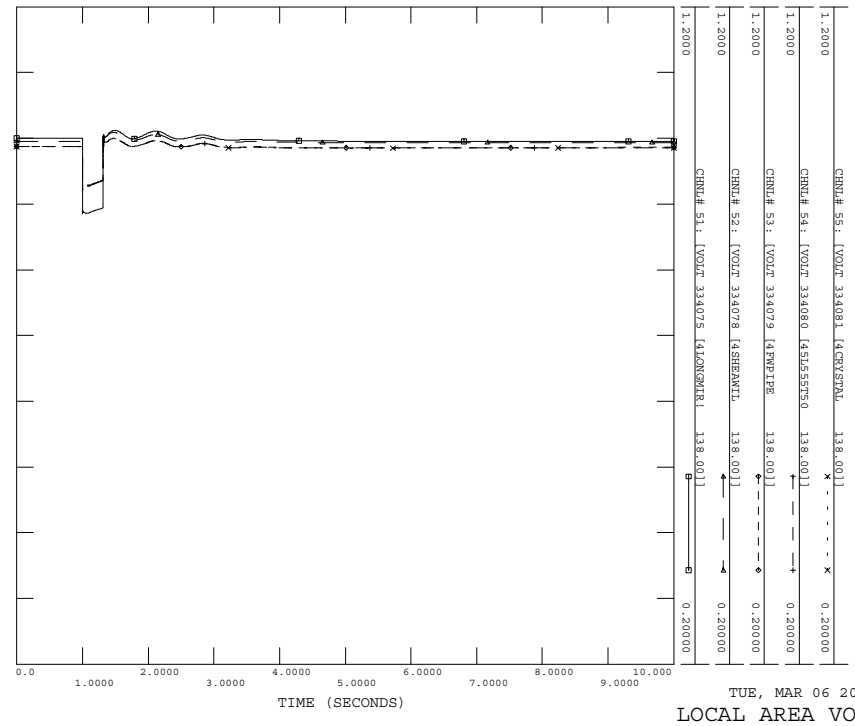
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CV SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



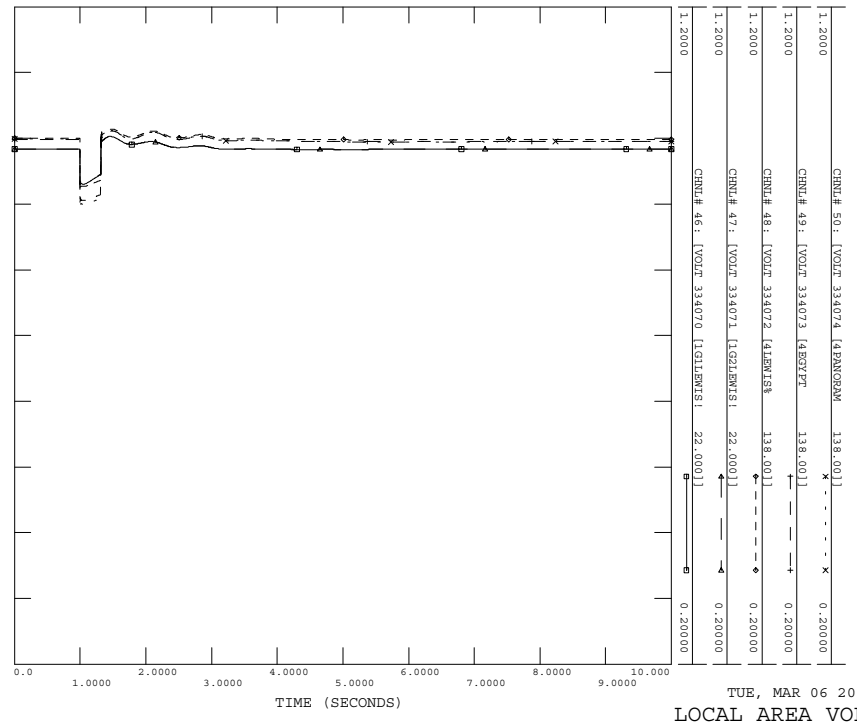
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CV SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

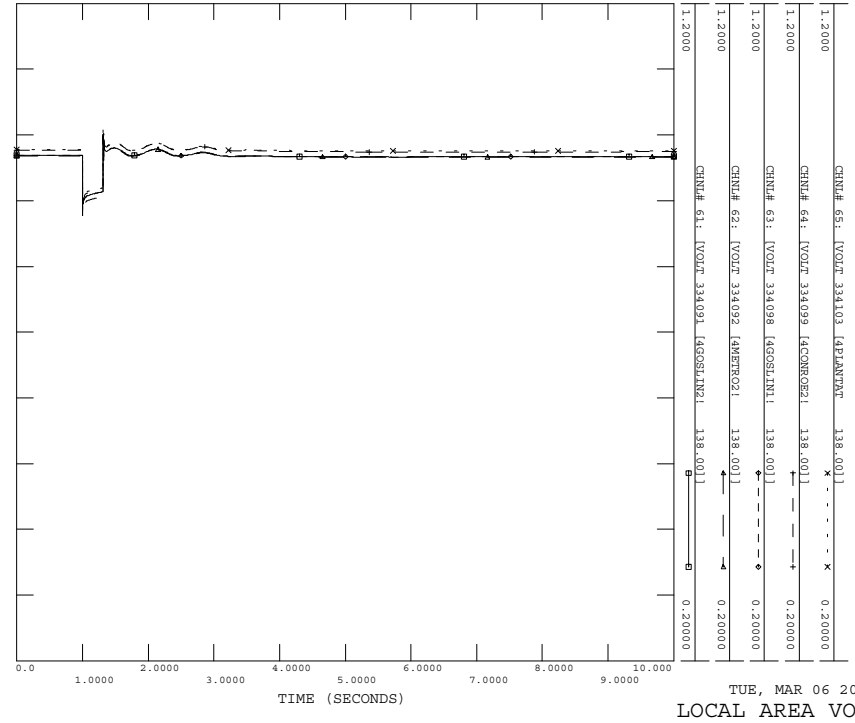
6+13CV SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1, GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



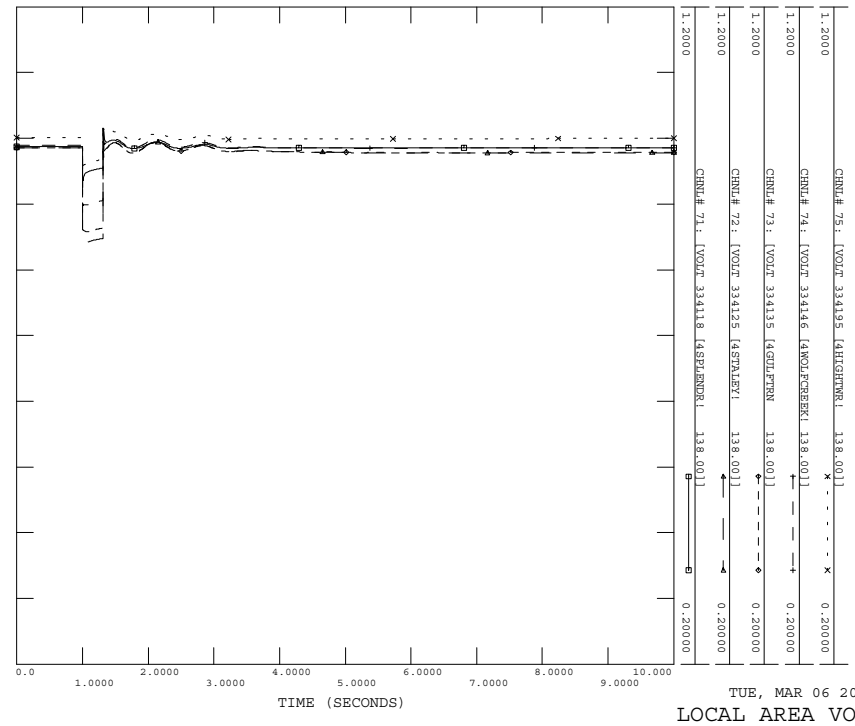
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES



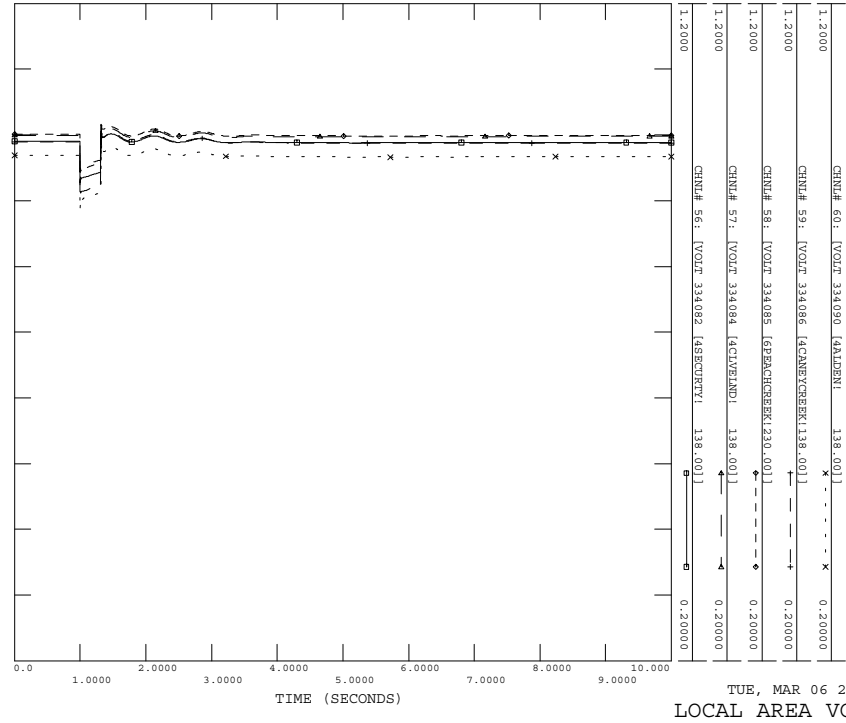
6+13CY SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1 , GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



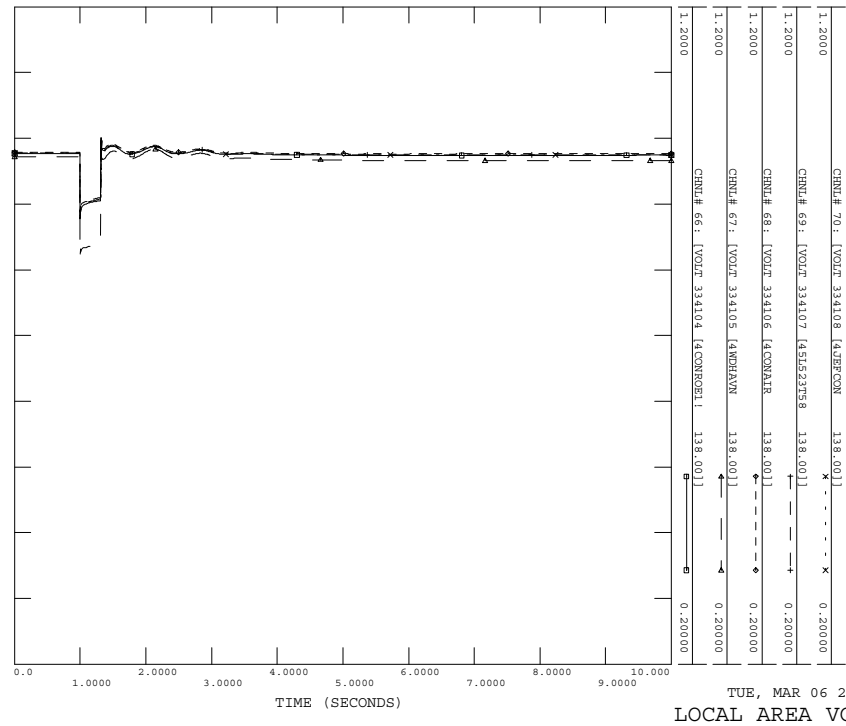
6+13CY SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1 , GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



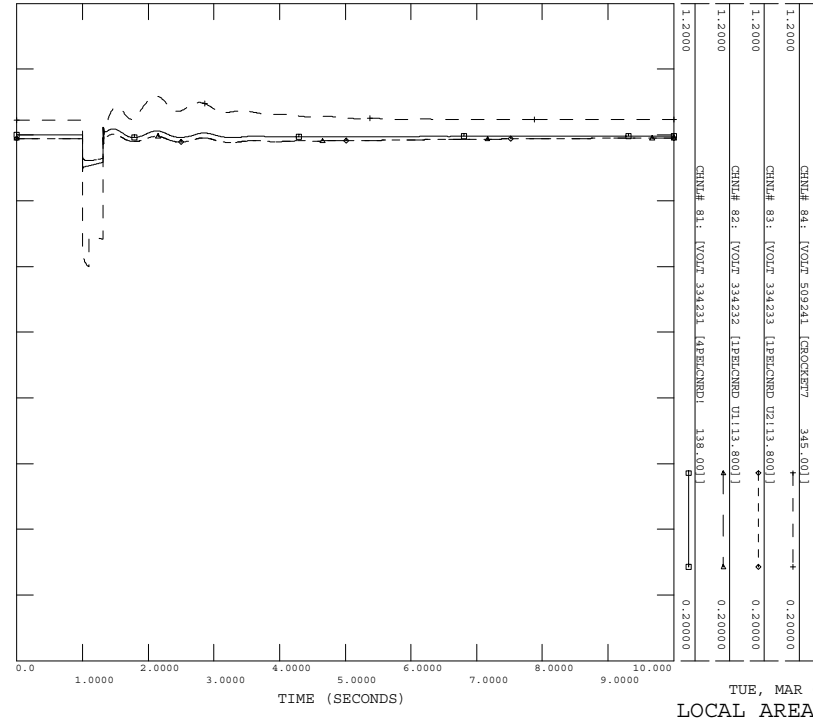
6+13CY SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1 , GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



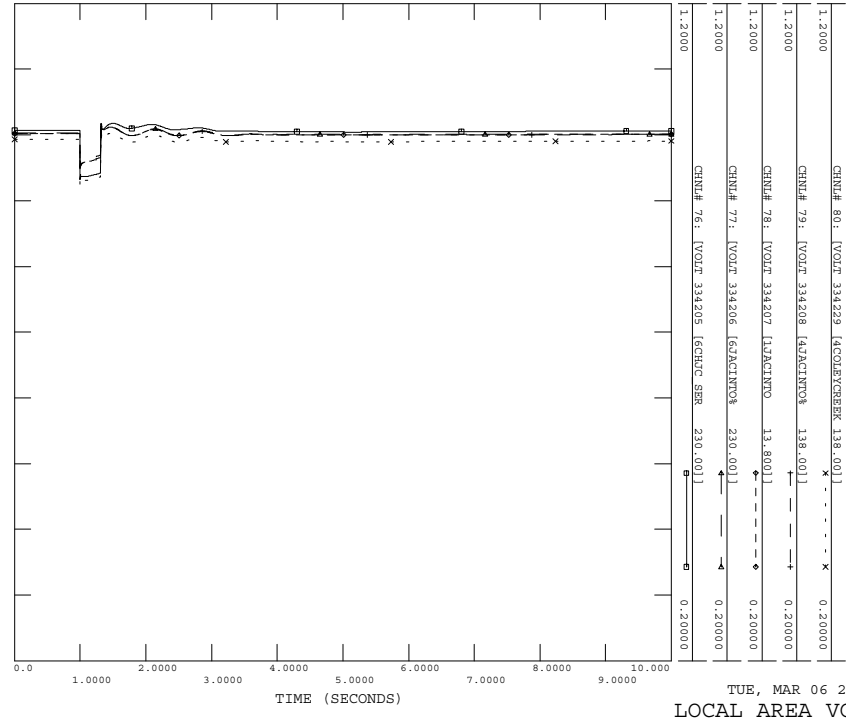
6+13CY SLG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1 , GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



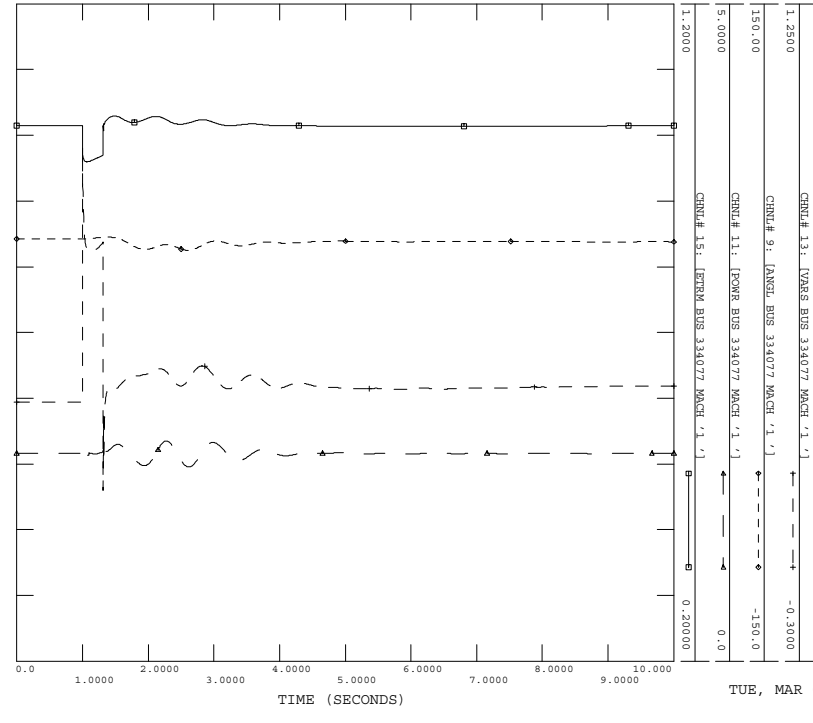
6+13CY SIG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1 , GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



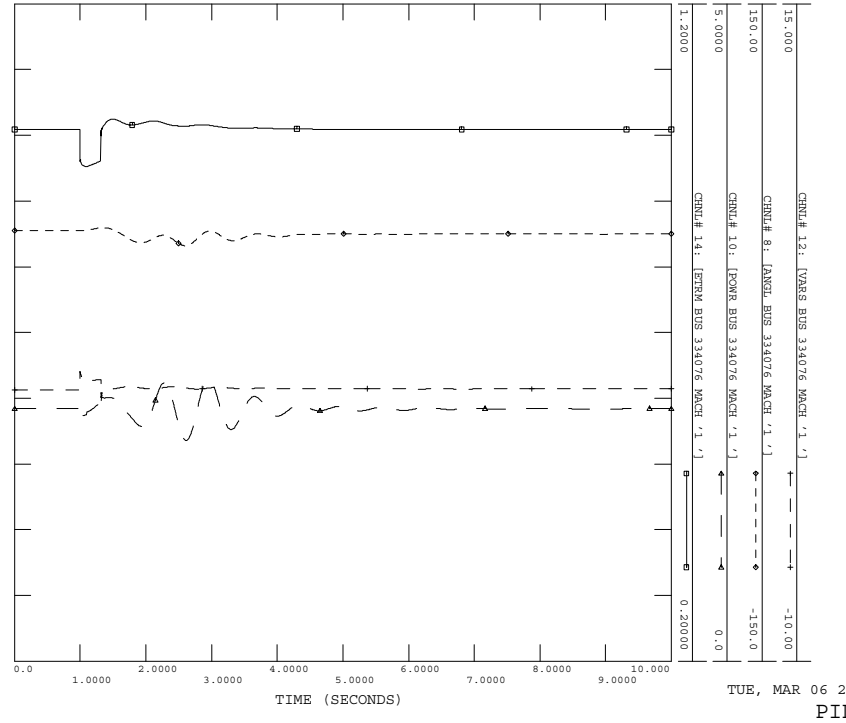
6+13CY SIG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1 , GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



6+13CY SIG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1 , GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT



6+13CY SIG STUCKERR GRIMES 345/138 KV AUTO TRAPO-1  
 TRIP 345/138 KV TRAPO-1 , GRIMES - COLLEGE SN 138 KV  
 FILE: Fault-14A.OUT

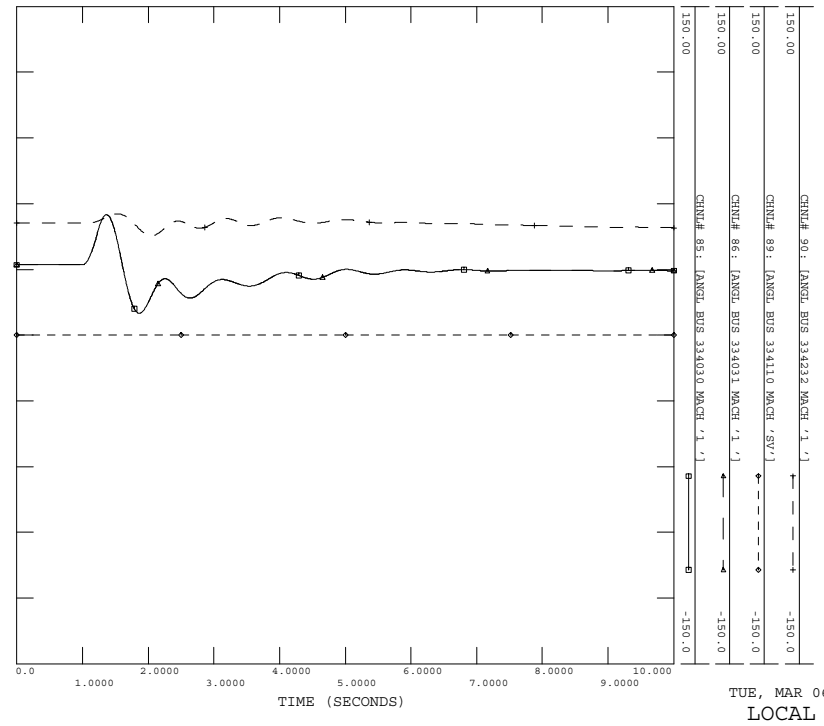


### **C.1.38      FAULT-15A**

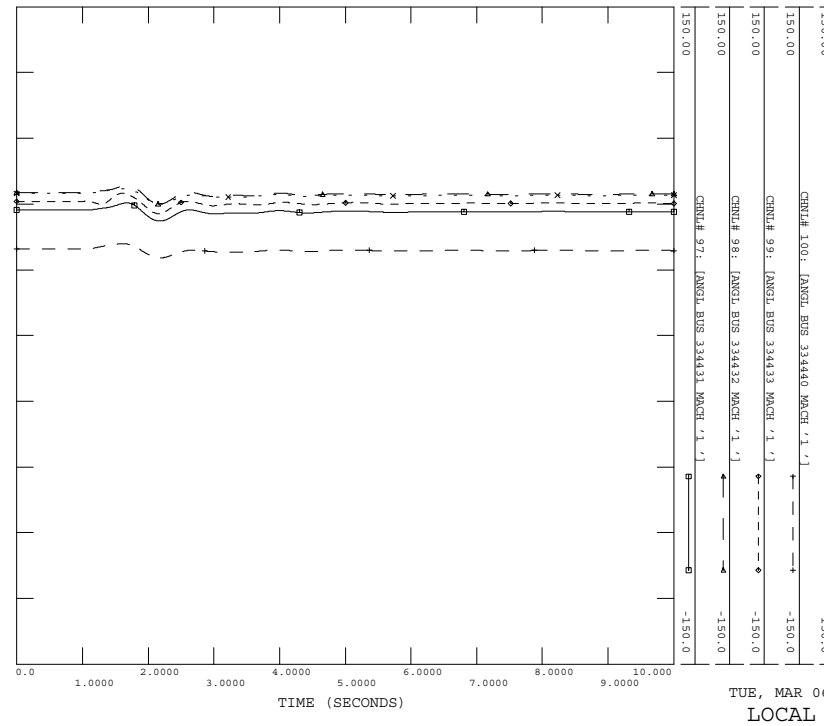
1 phase fault on the Grimes – Swepeco Crockett 345 kV

- a) Apply fault at Grimes 345kV bus
- b) Clear fault after 5 cycles by tripping the Grimes – Swepeco Crockett 345 kV
- c) Breaker (26170) Stuck at Grimes
- d) Clear fault after 9 cycles by tripping the Grimes 345/138 kV auto trafo-1

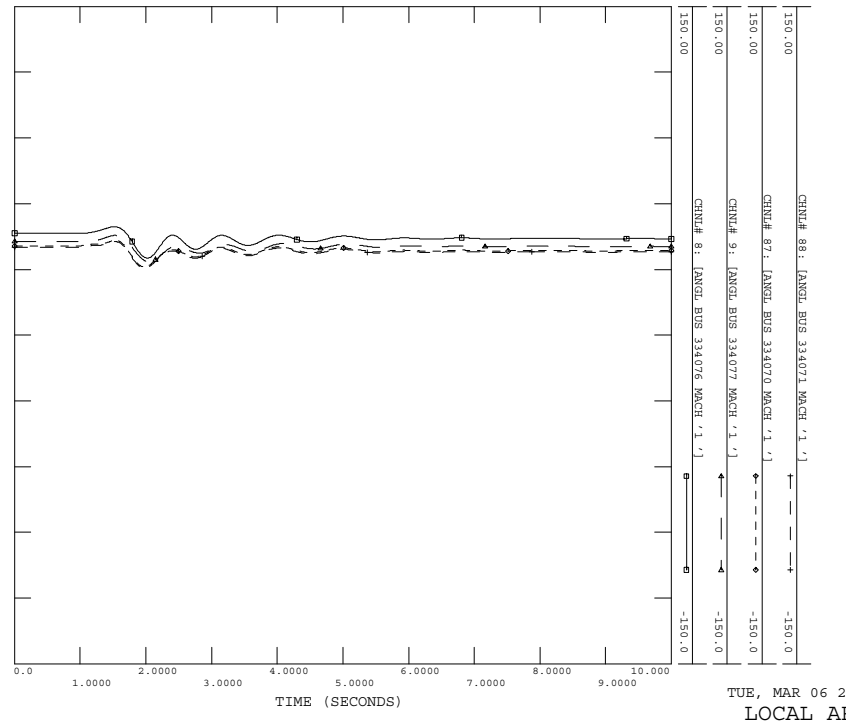
6+13CY SIG STUCKERK GRIMES - SWEPCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT



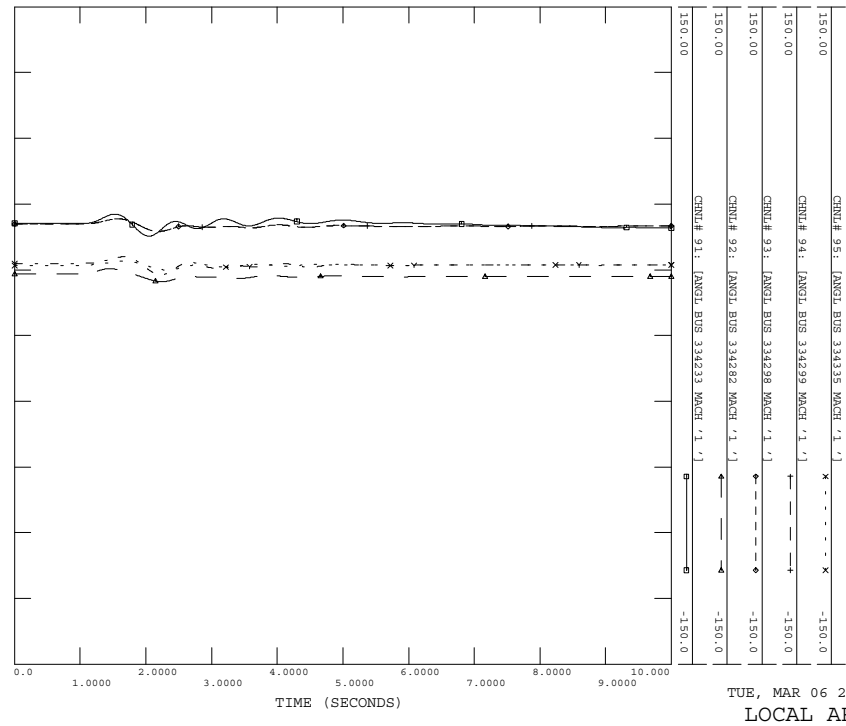
6+13CY SIG STUCKERK GRIMES - SWEPCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT



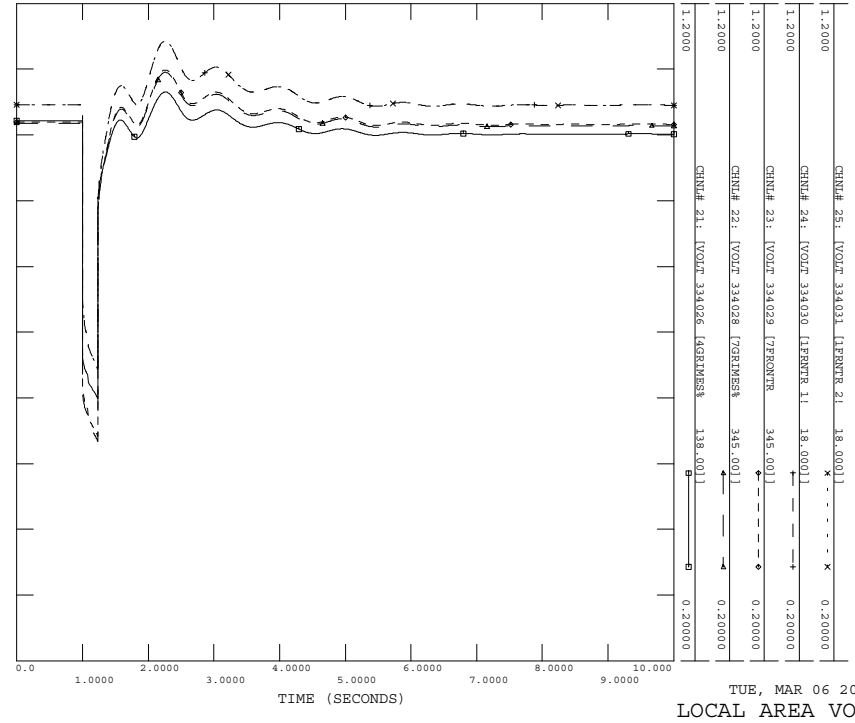
6+13CY SIG STUCKERK GRIMES - SWEPCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT



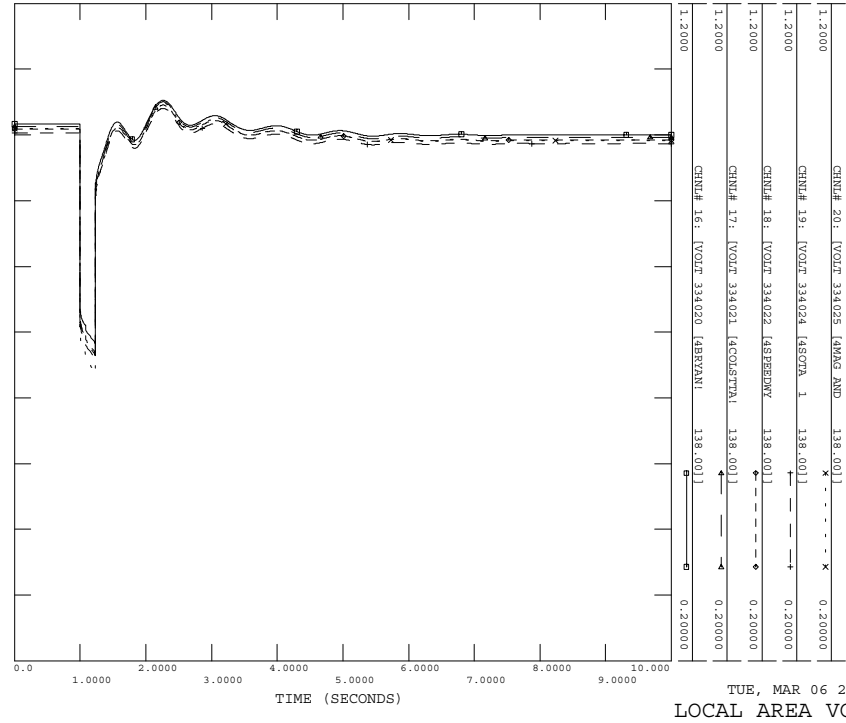
6+13CY SIG STUCKERK GRIMES - SWEPCO CROCKETT 345 KV  
 TRIP GRIMES - SWEPCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT



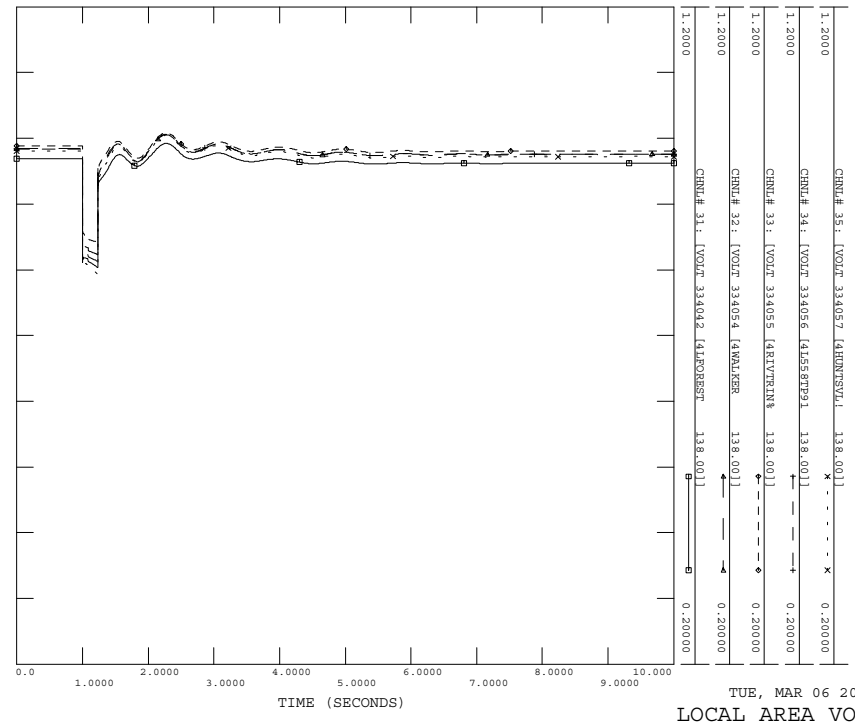
6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.OUT



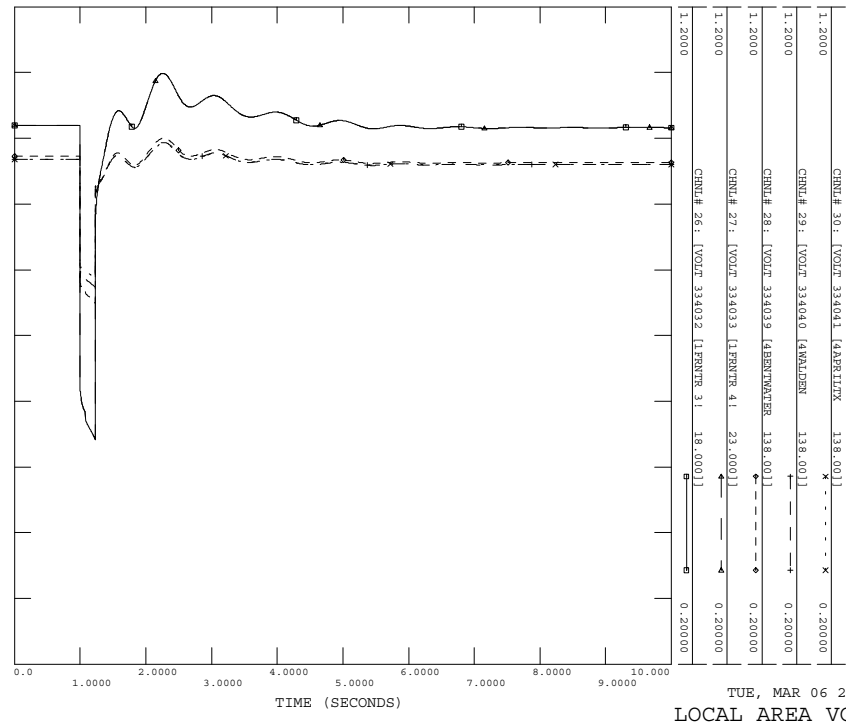
6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.OUT



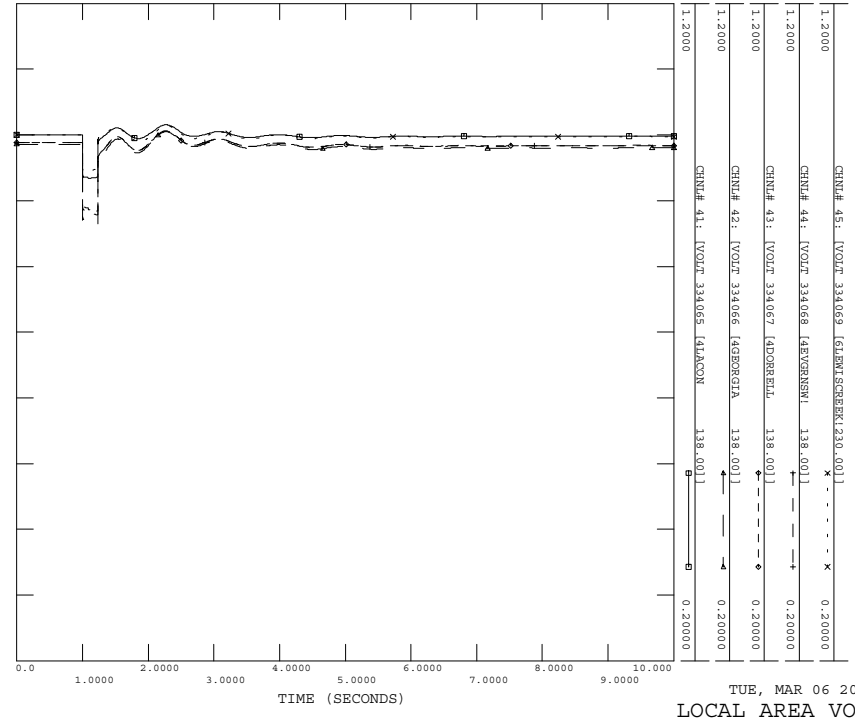
6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.OUT



6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.OUT

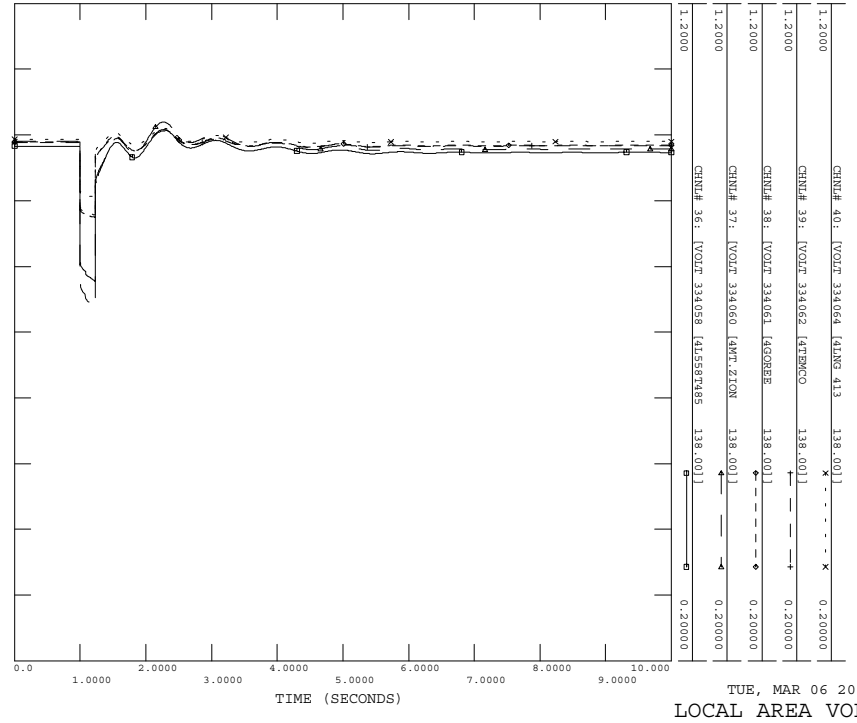


6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.OUT



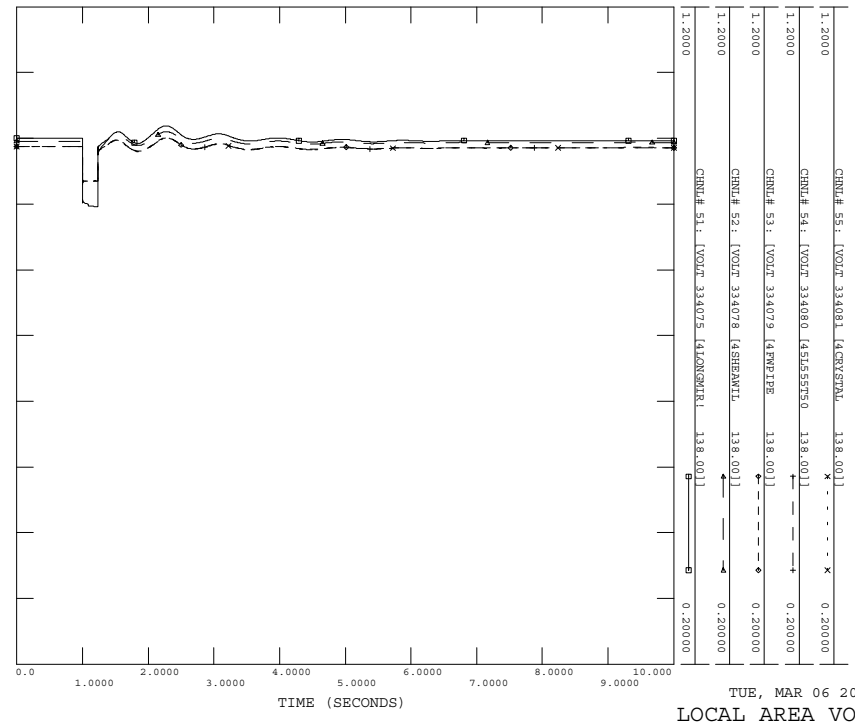
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.OUT



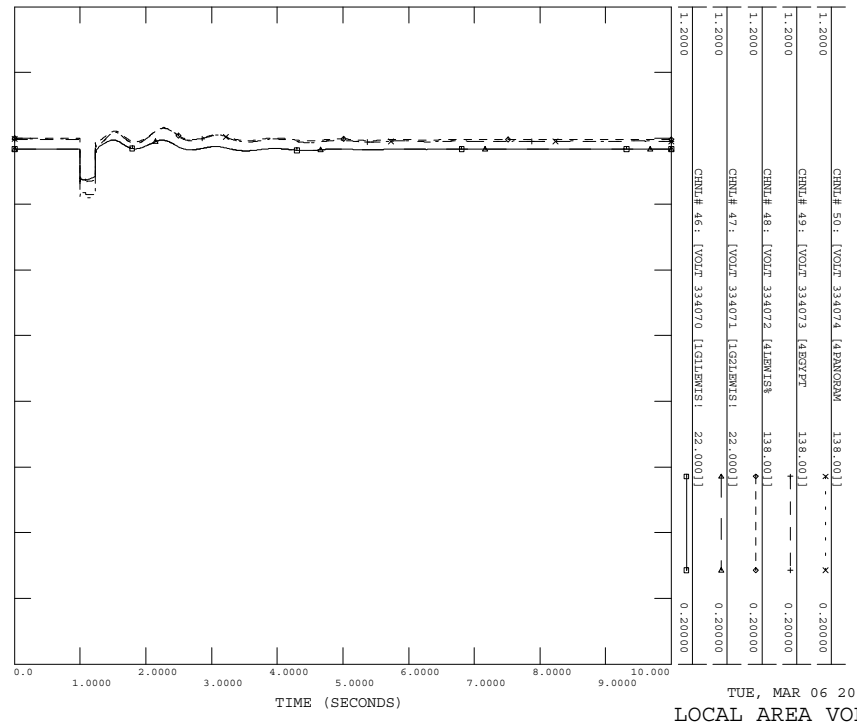
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.OUT



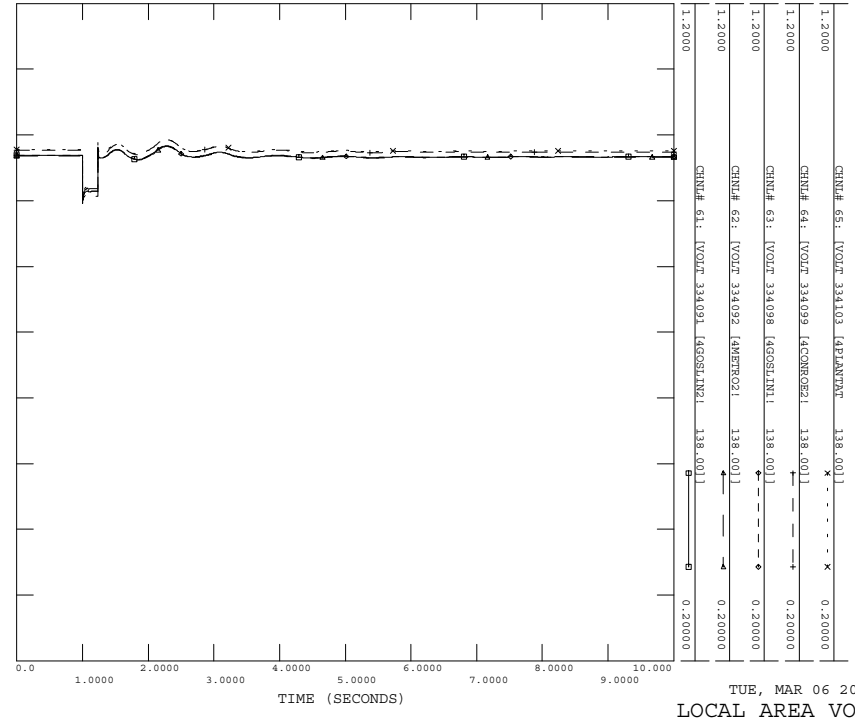
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.OUT



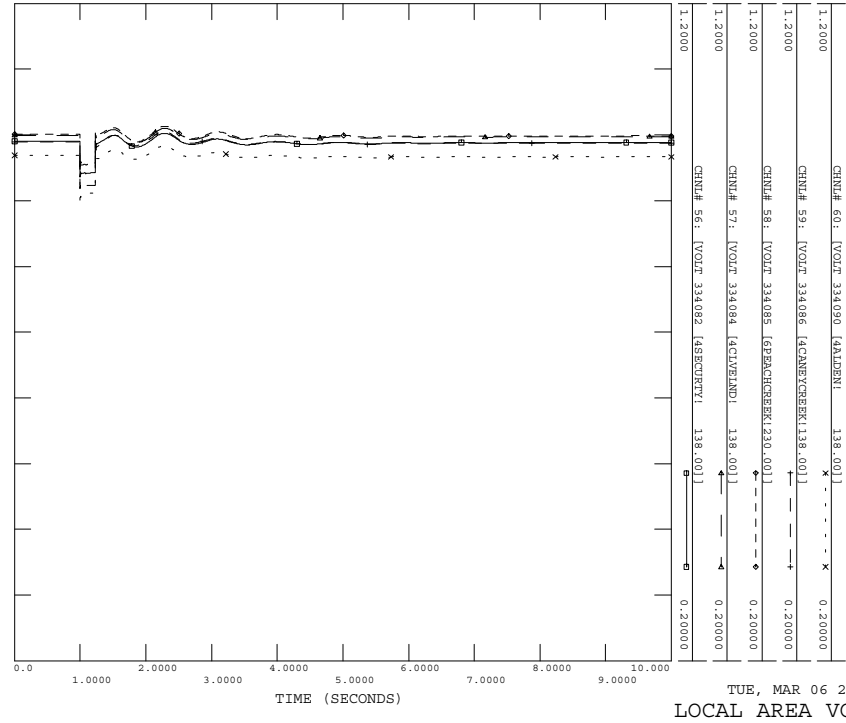
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT



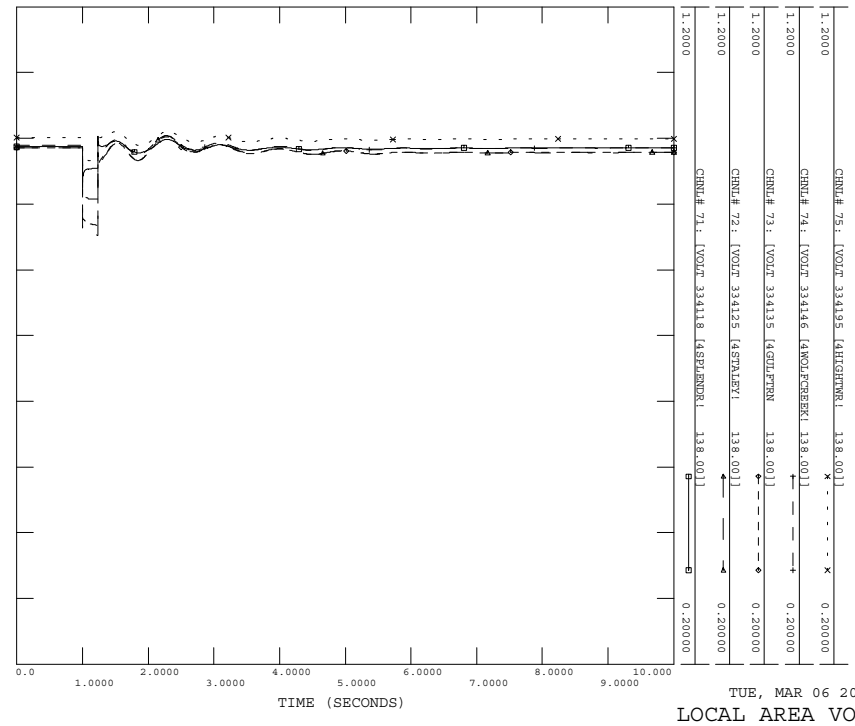
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT



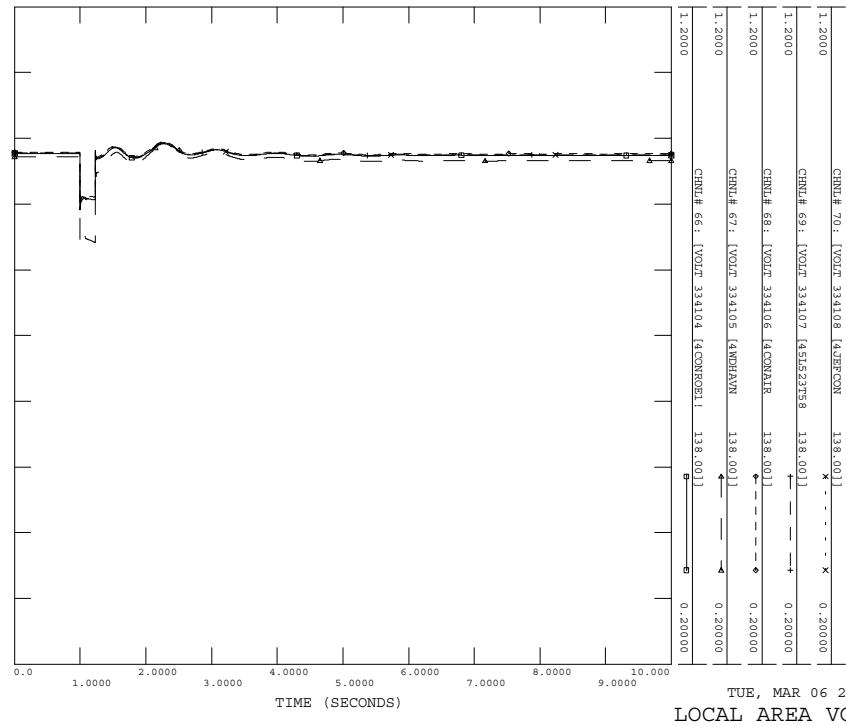
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT



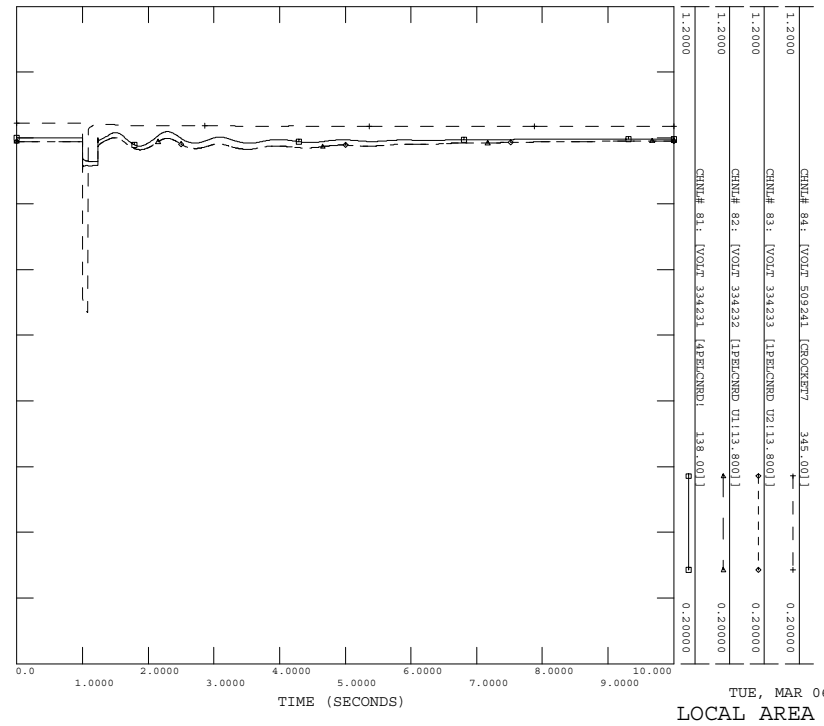
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT

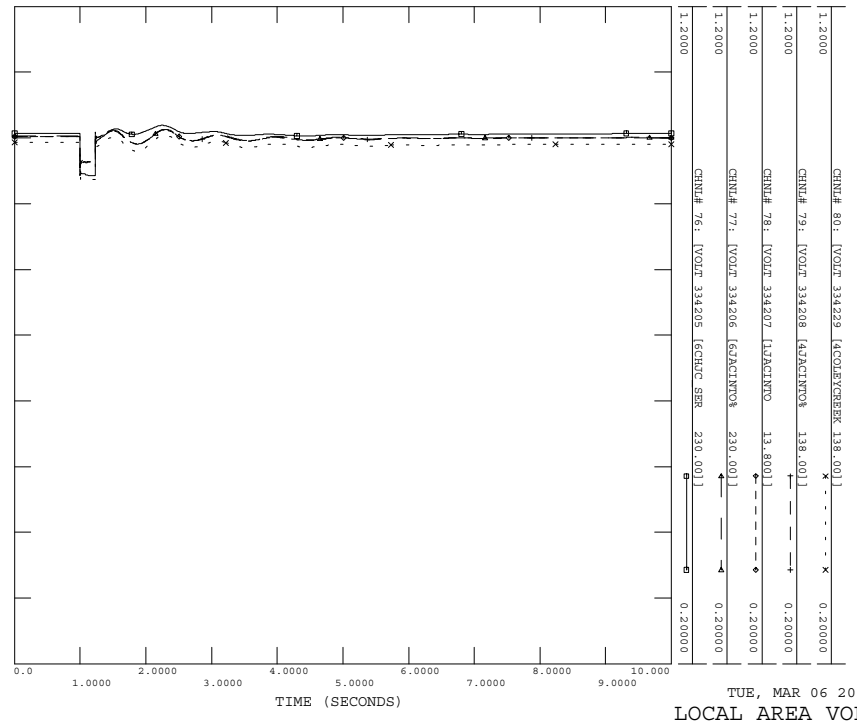


TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

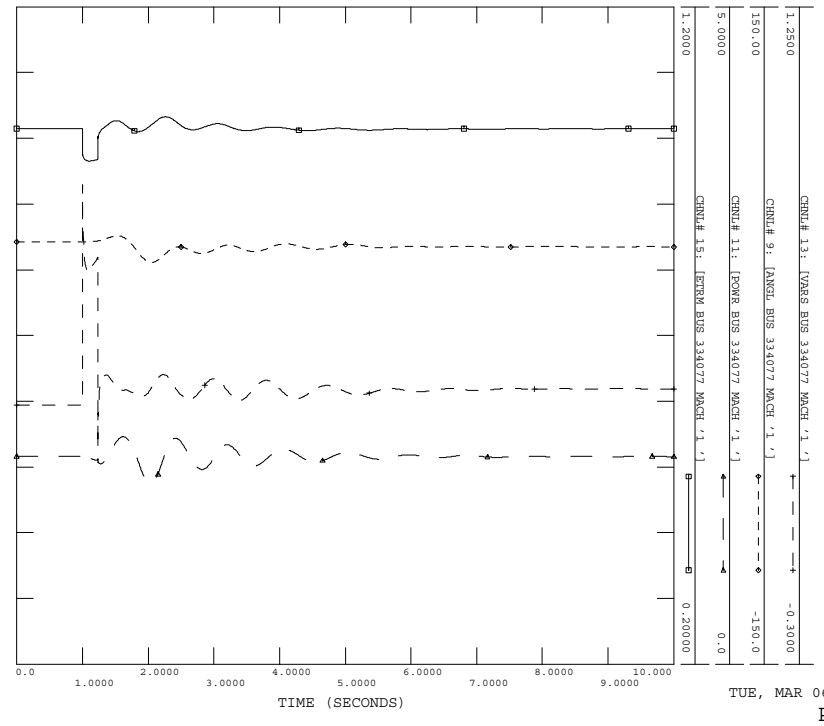
6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV TRAPO-1  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT



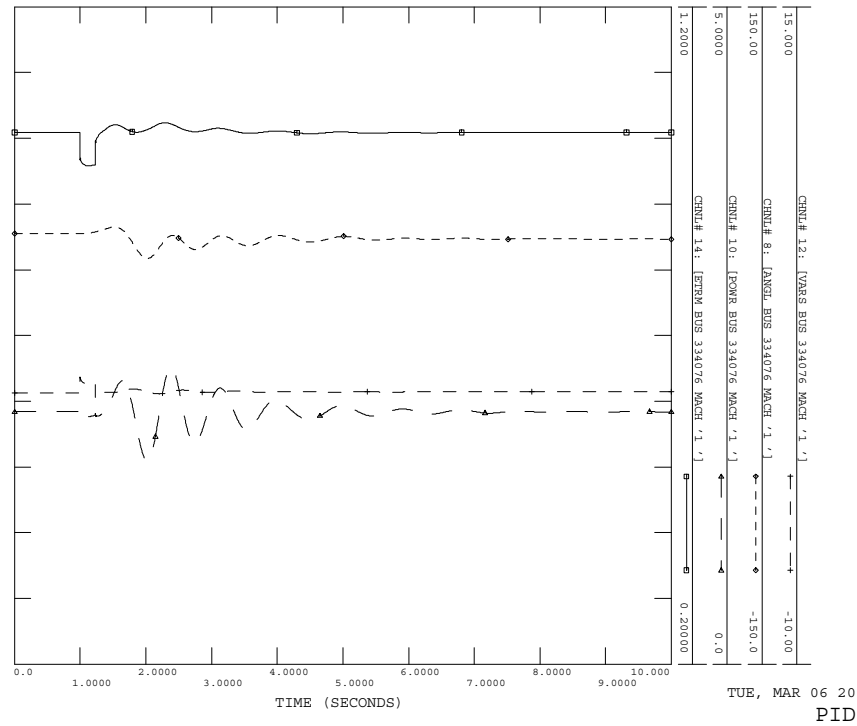
6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV TRAPO-1  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT



6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV TRAPO-1  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT



6+13CY SIG STUCKBRK GRIMES - SWPCCO CROCKETT 345 KV TRAPO-1  
 TRIP GRIMES - SWPCCO CROCKETT, GRIMES 345/138 KV TRAPO-1  
 FILE: Fault-15A.0UT



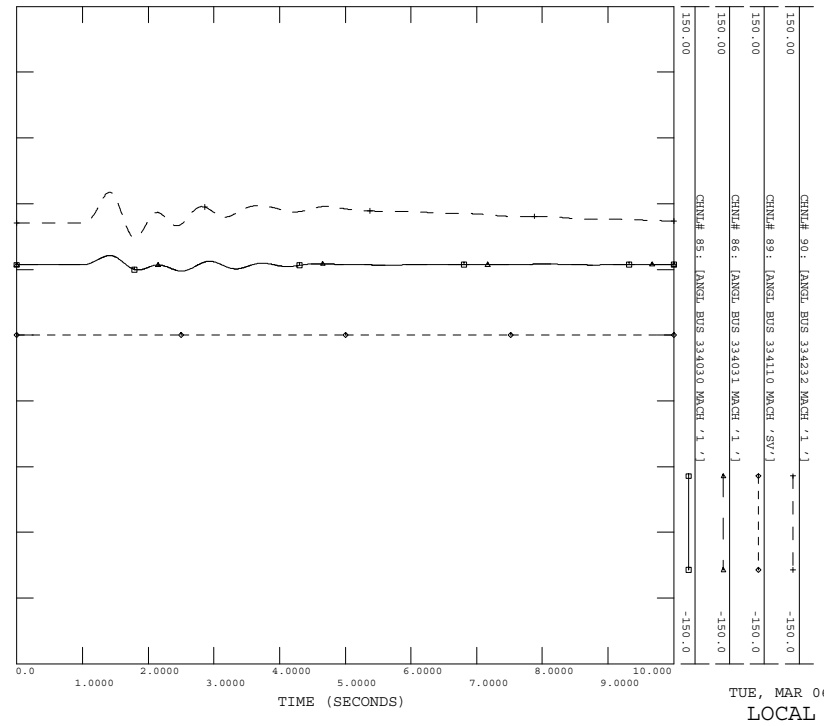


### **C.1.39      FAULT-16A**

1 phase fault on the Porter– Tamina 138 kV

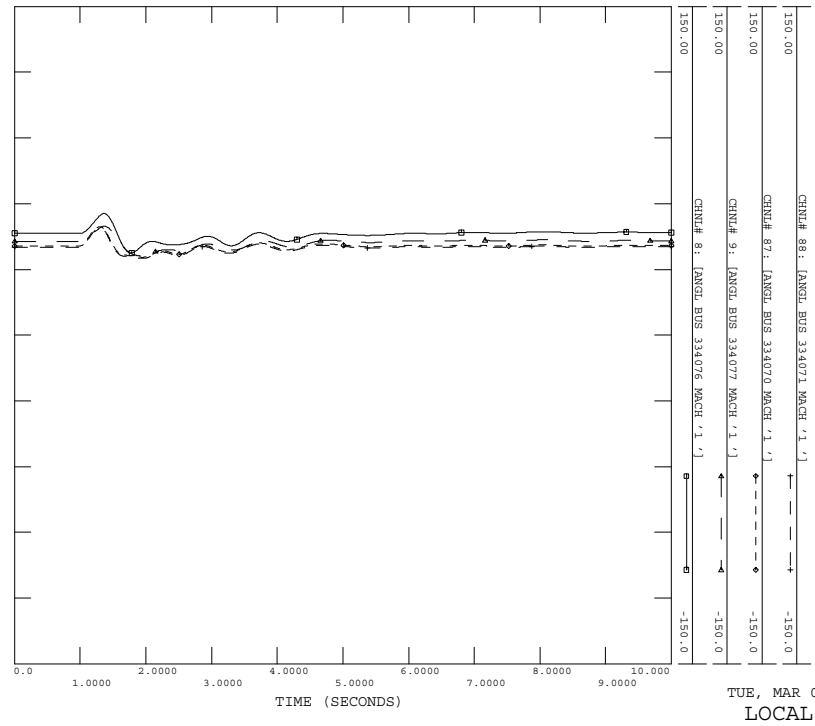
- a) Apply fault at Porter 138kV bus
- b) Clear fault after 6 cycles by tripping the Porter– Tamina 138 kV
- c) Breaker (23085) Stuck at Porter
- d) Clear fault after 13 cycles by tripping the Porter– New Caney 138 kV

6+130Y SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT  
 NEW CANEY 138 KV



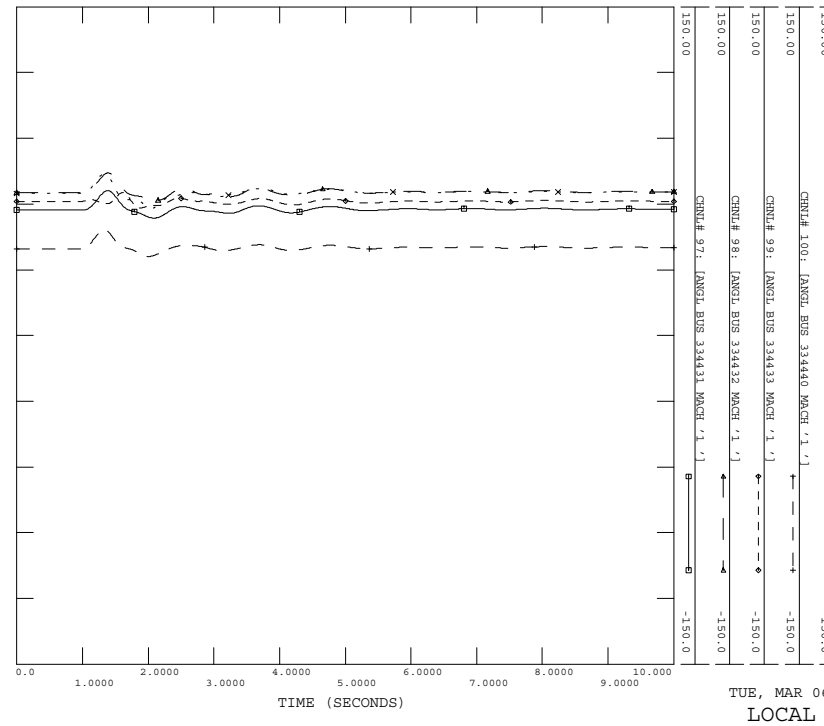
TUE, MAR 06 2012 11:02  
 LOCAL AREA ANG

6+130Y SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT  
 NEW CANEY 138 KV



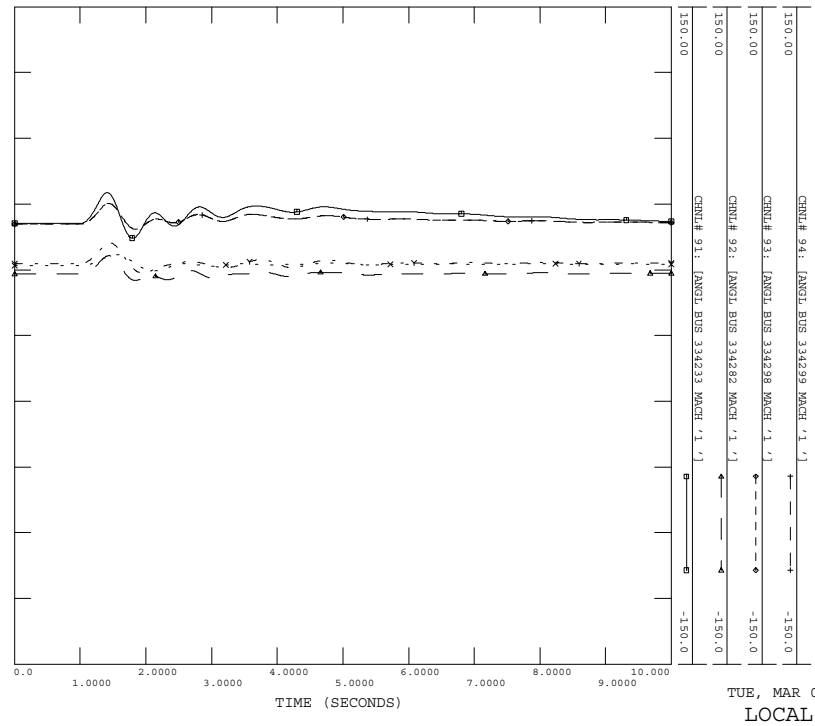
TUE, MAR 06 2012 11:02  
 LOCAL AREA ANG

6+130Y SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT  
 NEW CANEY 138 KV



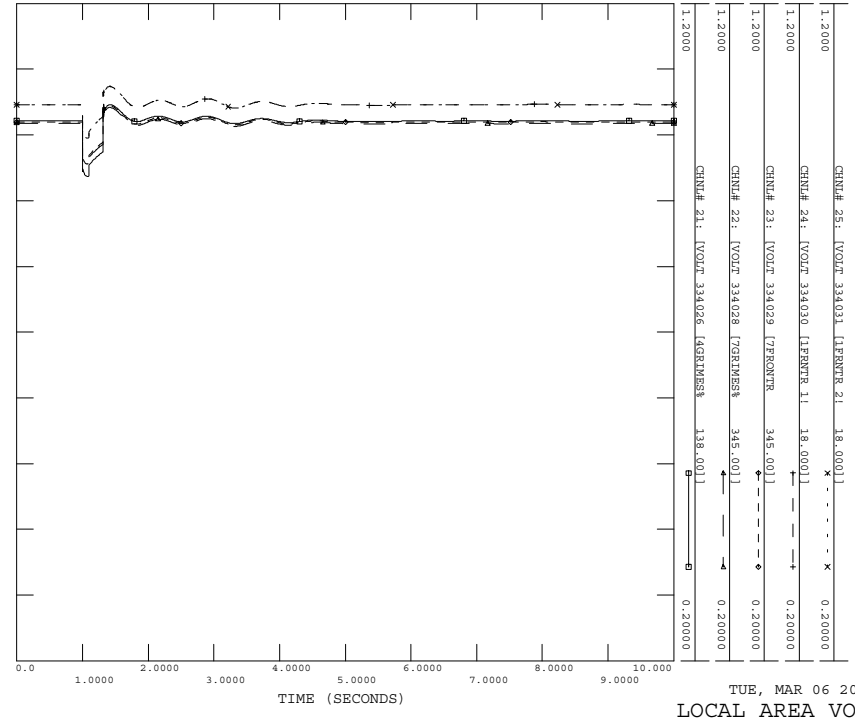
TUE, MAR 06 2012 11:02  
 LOCAL AREA ANG

6+130Y SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT  
 NEW CANEY 138 KV

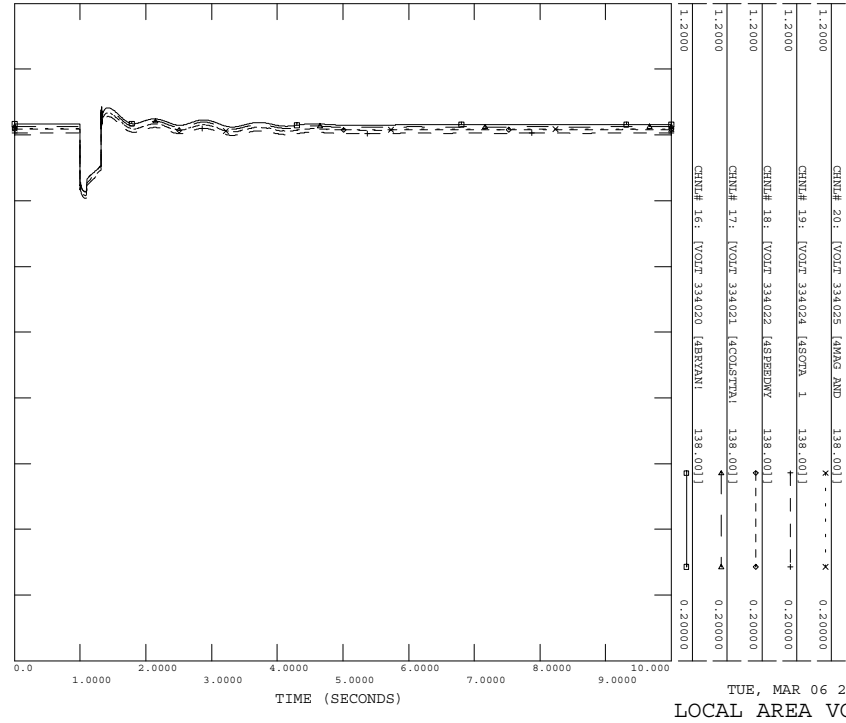


TUE, MAR 06 2012 11:02  
 LOCAL AREA ANG

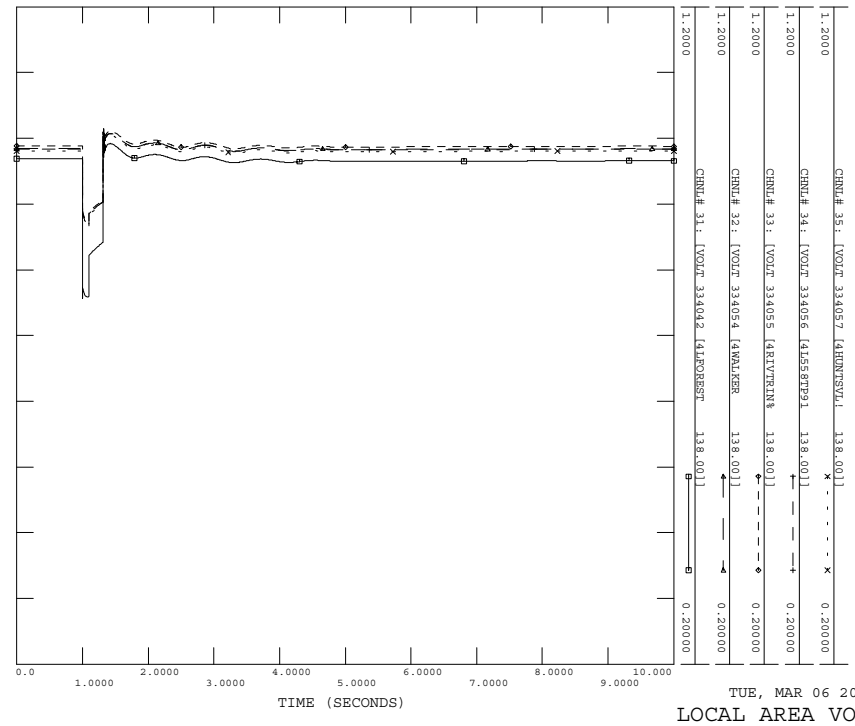
6+13CY SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT



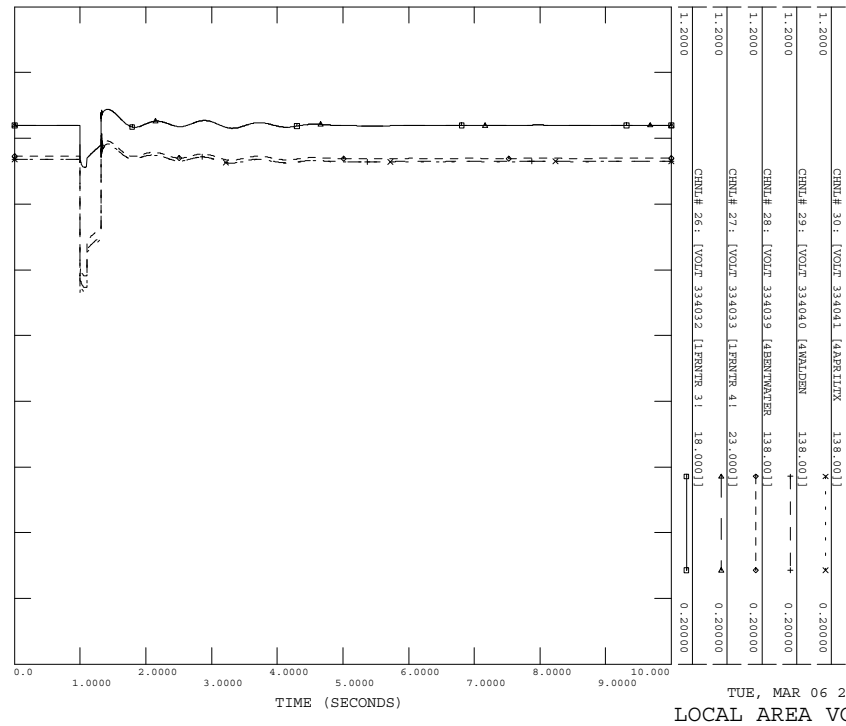
6+13CY SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT



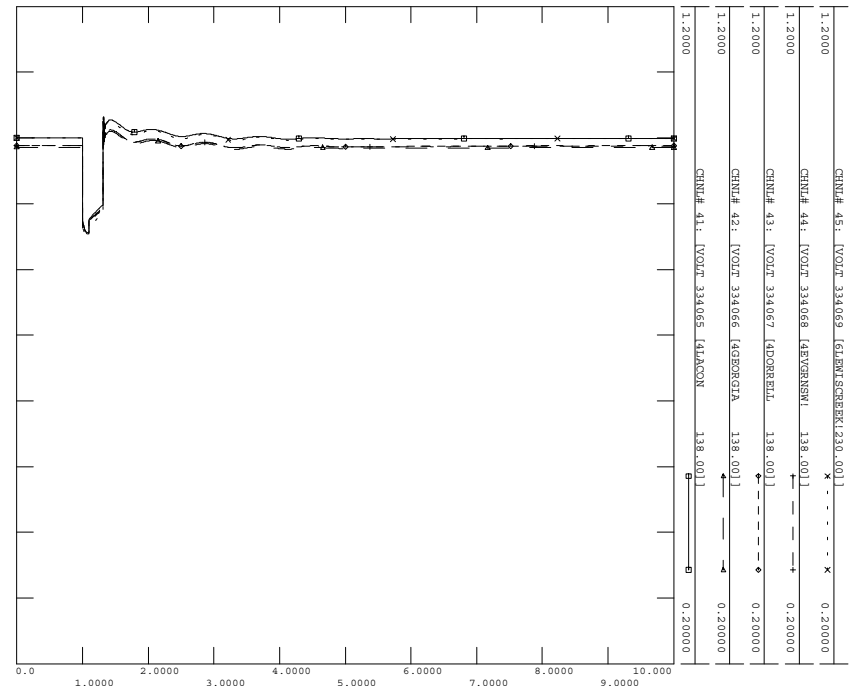
6+13CY SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT



6+13CY SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT

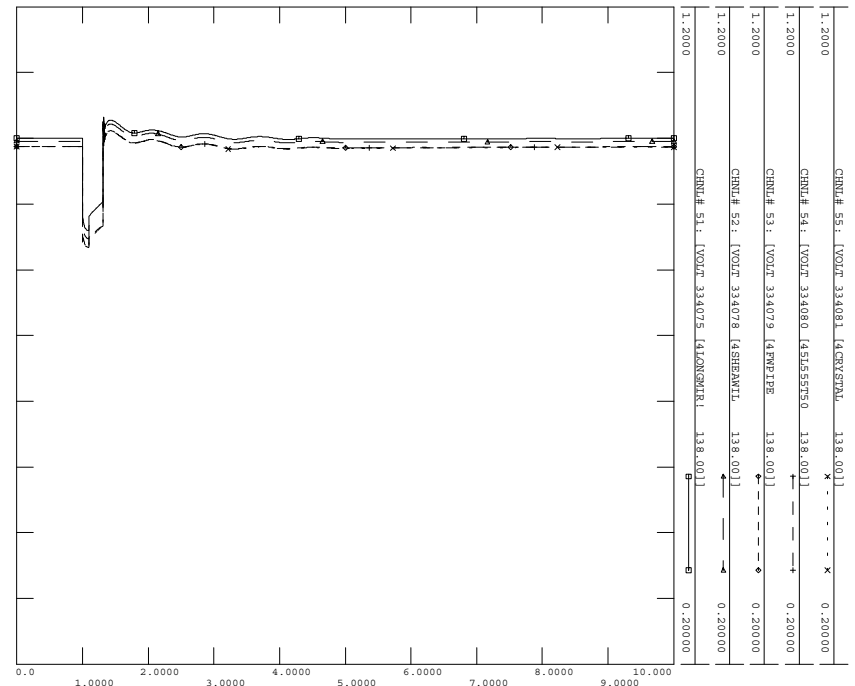


6+13CY SLG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT



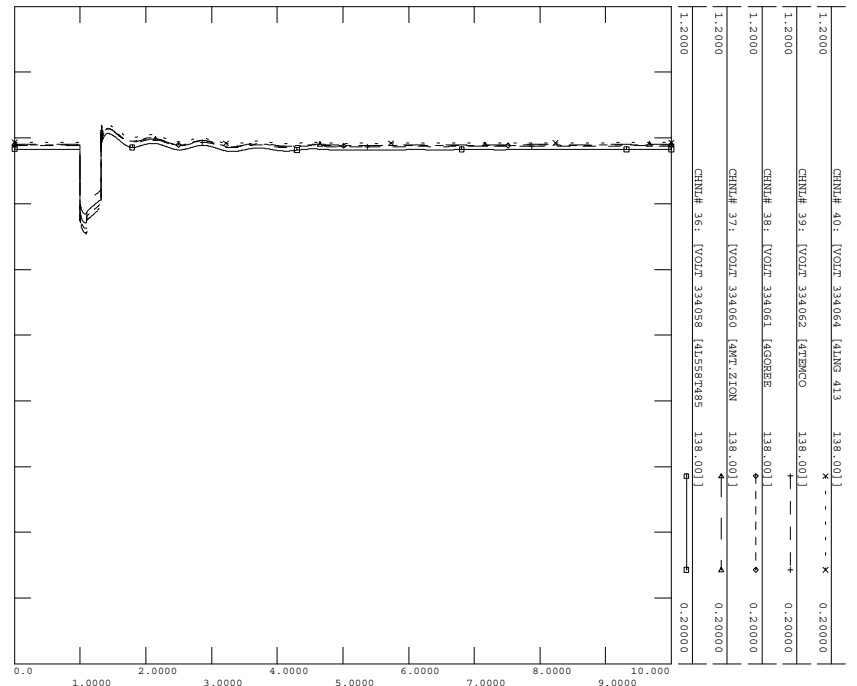
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SLG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT



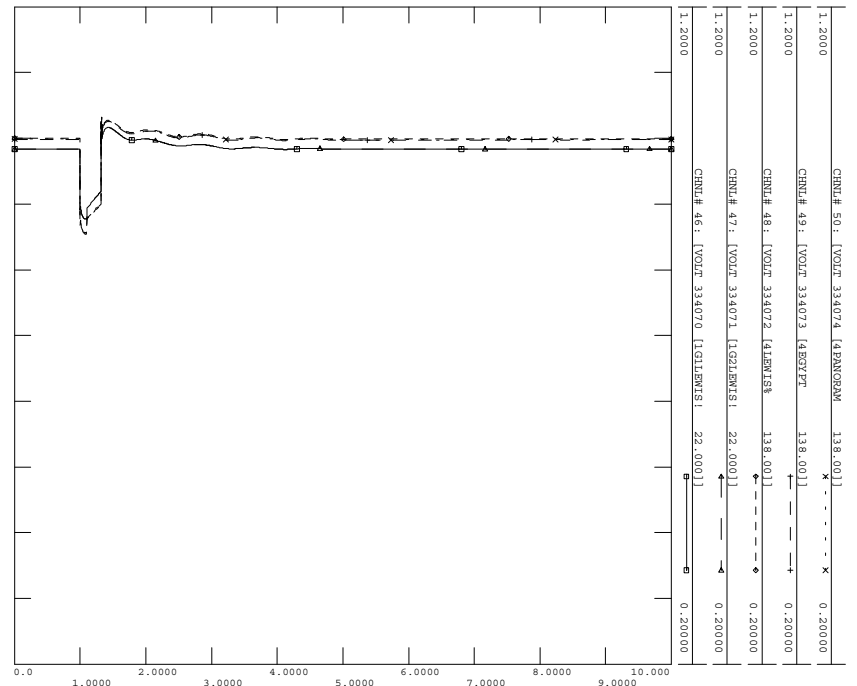
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SLG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT



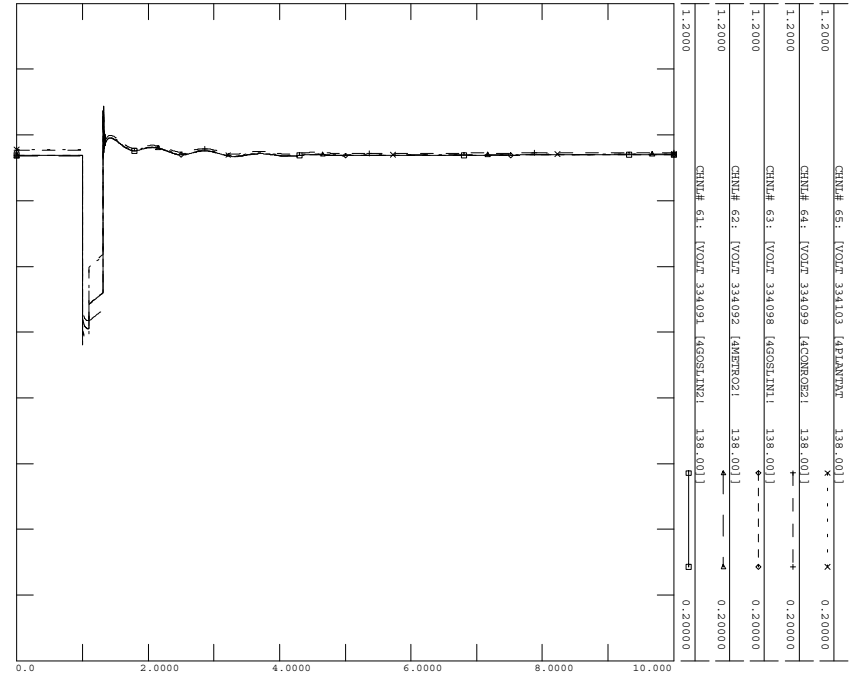
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SLG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT



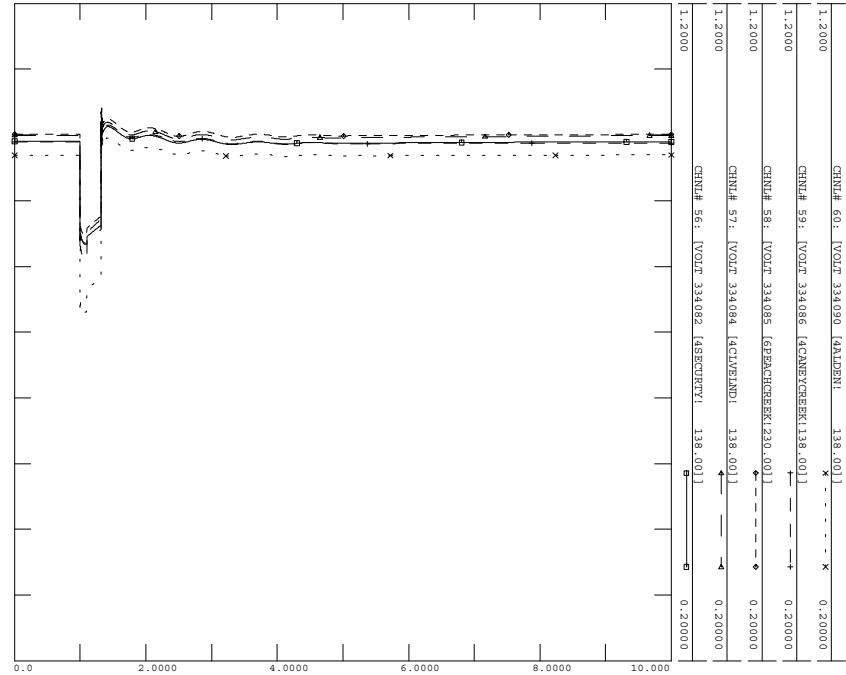
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT



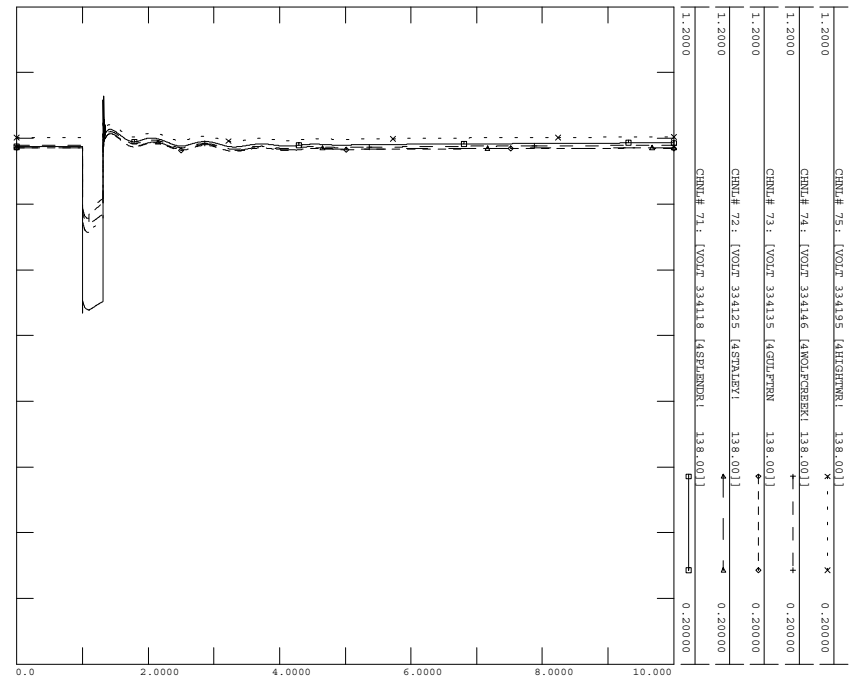
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT



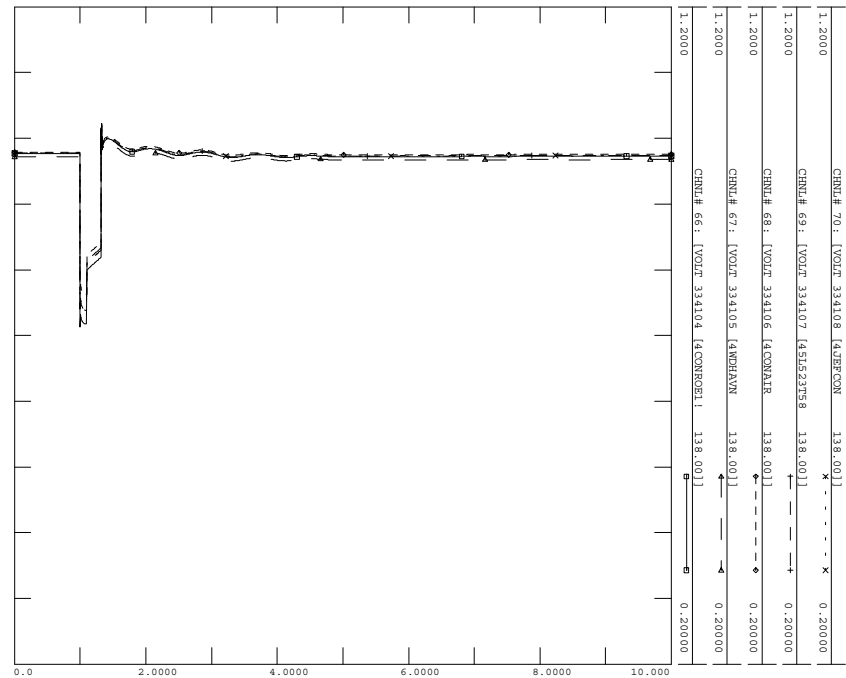
TUE, MAR 06 2012 11:02  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT



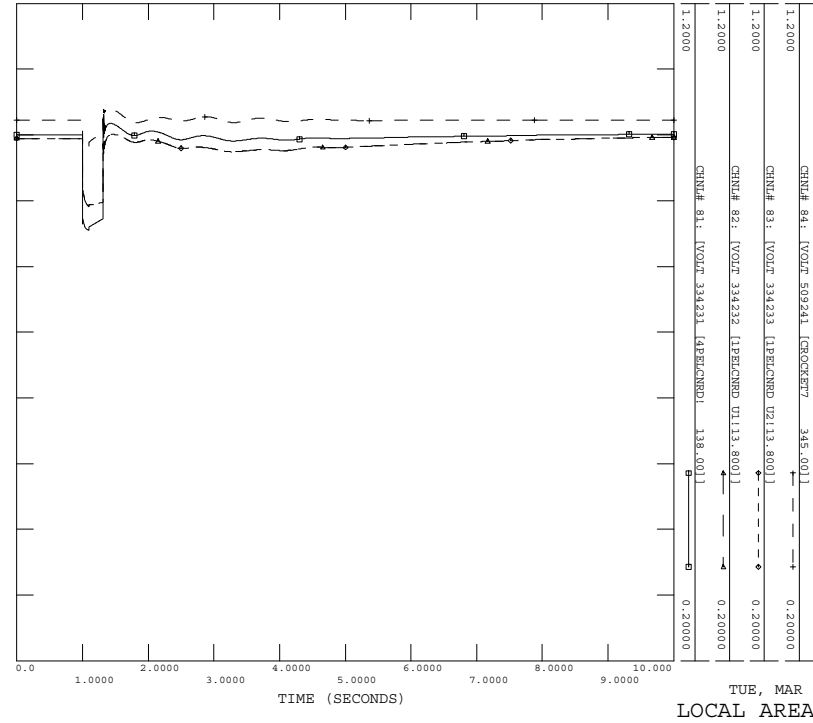
TUE, MAR 06 2012 11:03  
 LOCAL AREA VOLTAGES

6+13CY SIG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV, PORTER-  
 TAMINA 138 KV, PORTER-  
 FILE: Fault-16A.OUT

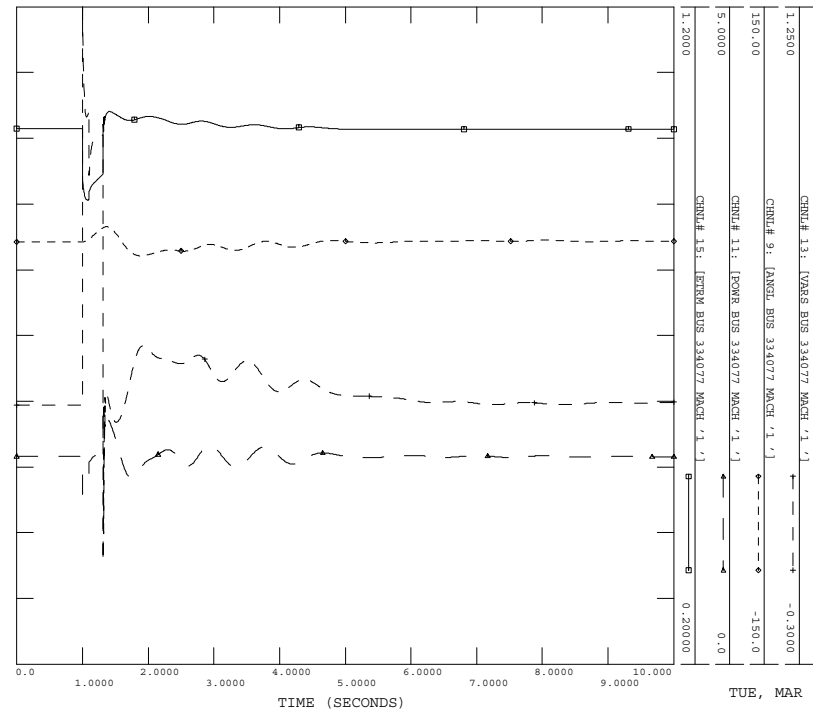


TUE, MAR 06 2012 11:03  
 LOCAL AREA VOLTAGES

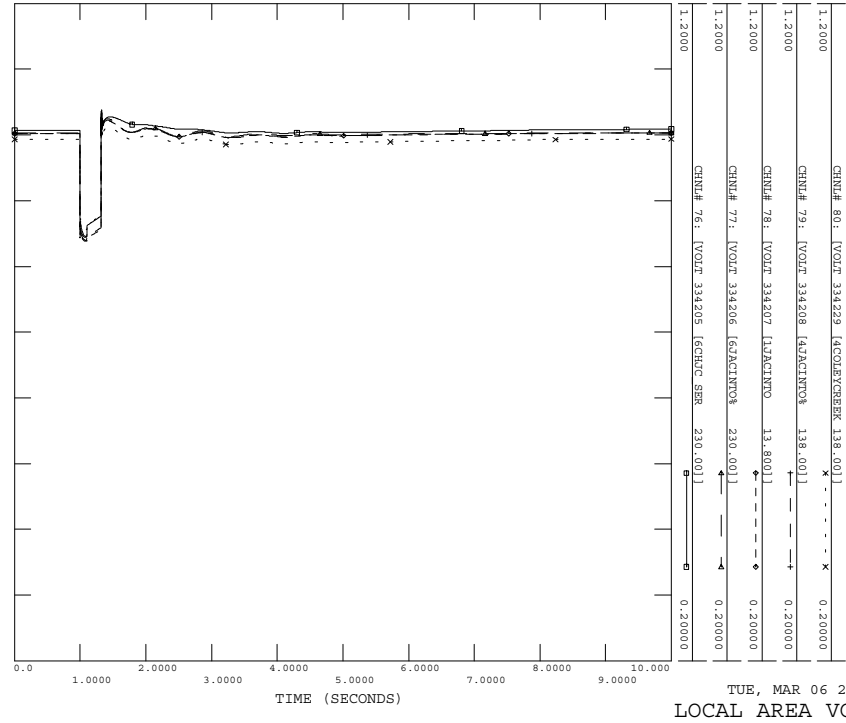
6+13CY SLG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV , PORTER-  
 FILE: Fault-16A.OUT



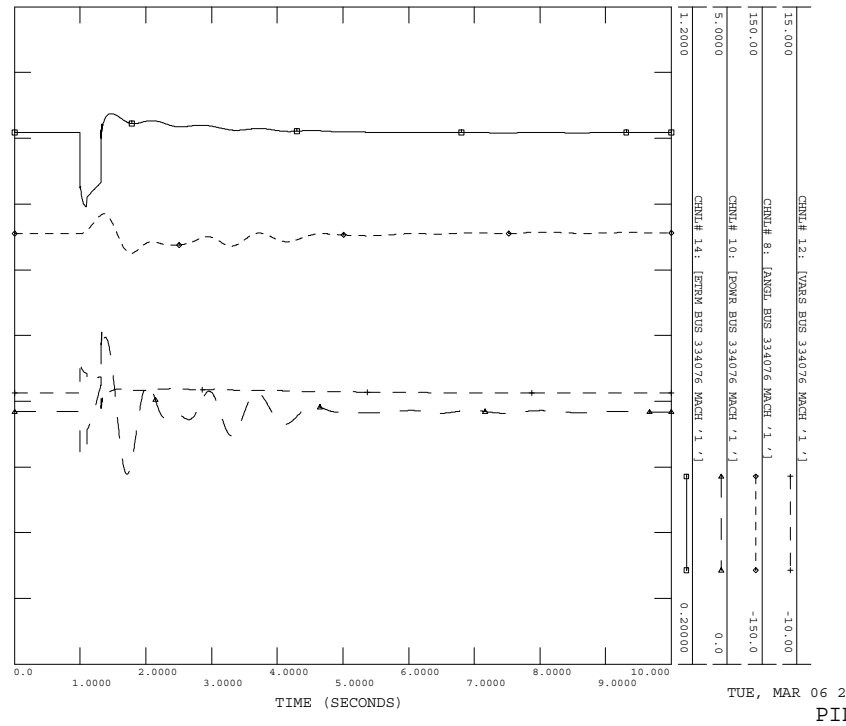
6+13CY SLG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV , PORTER-  
 FILE: Fault-16A.OUT



6+13CY SLG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV , PORTER-  
 FILE: Fault-16A.OUT



6+13CY SLG STUCKERK PORTER- TAMINA 138 KV  
 TRIP PORTER- TAMINA 138 KV , PORTER-  
 FILE: Fault-16A.OUT

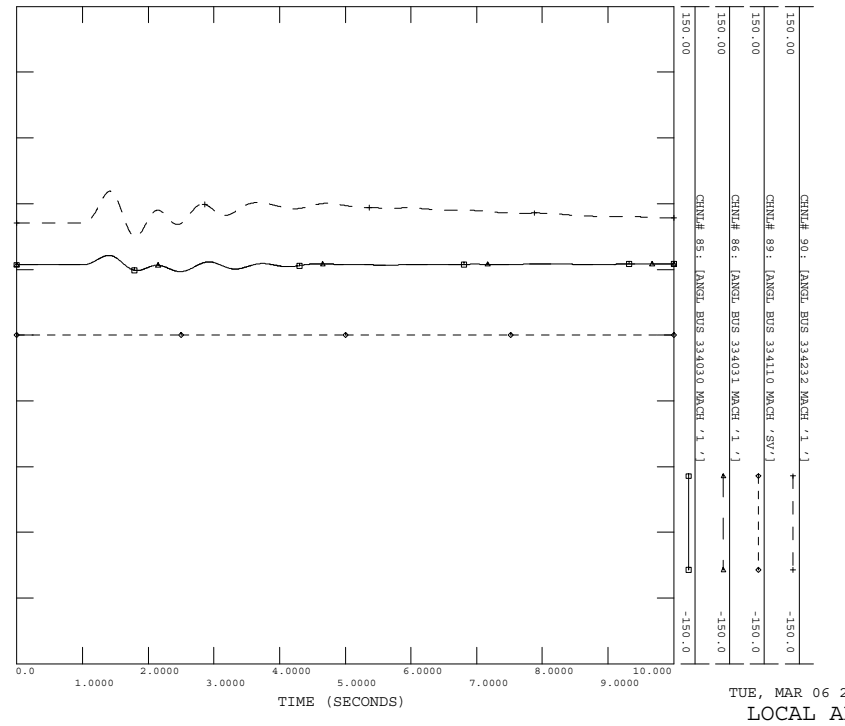


#### **C.1.40      FAULT-17A**

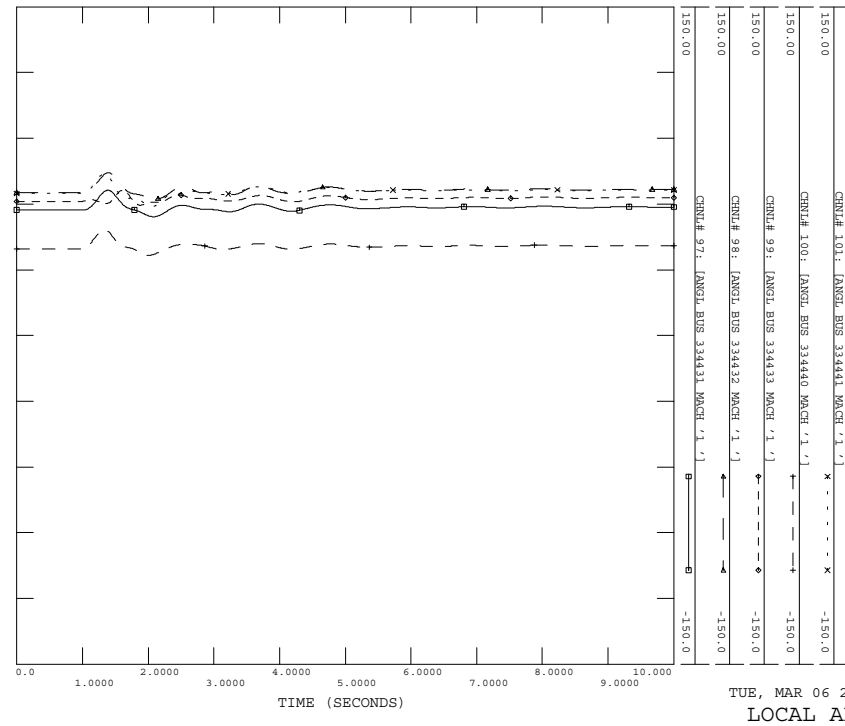
1 phase fault on the Porter– Oak Ridge 138 kV

- a) Apply fault at Porter 138kV bus
- b) Clear fault after 6 cycles by tripping the Porter– Oak Ridge 138 kV
- c) Breaker (23070) Stuck at Porter
- d) Clear fault after 13 cycles by tripping the Porter– Splendora 138 kV

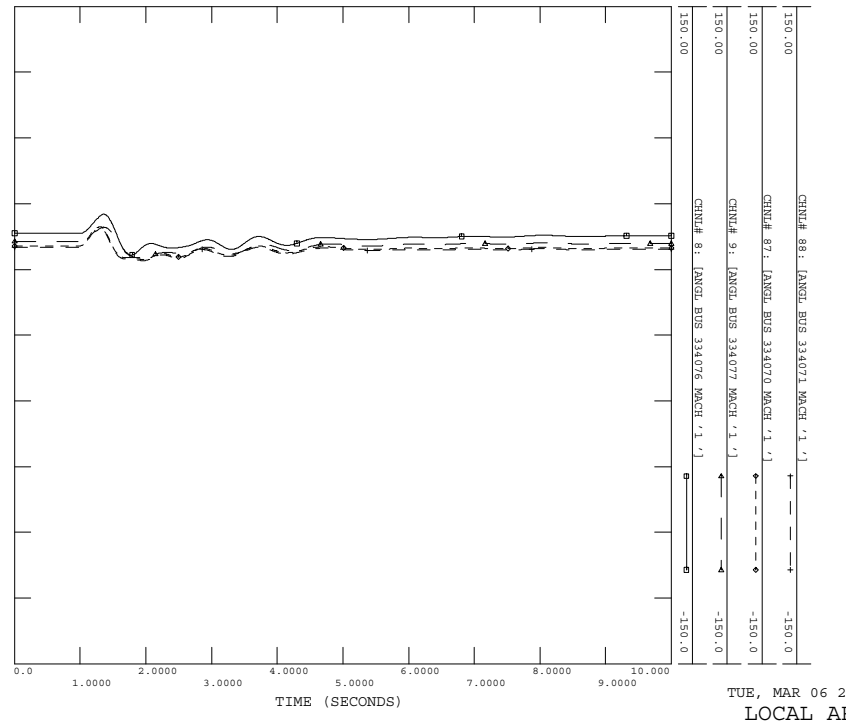
6+13CY SIG STUCKERK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT



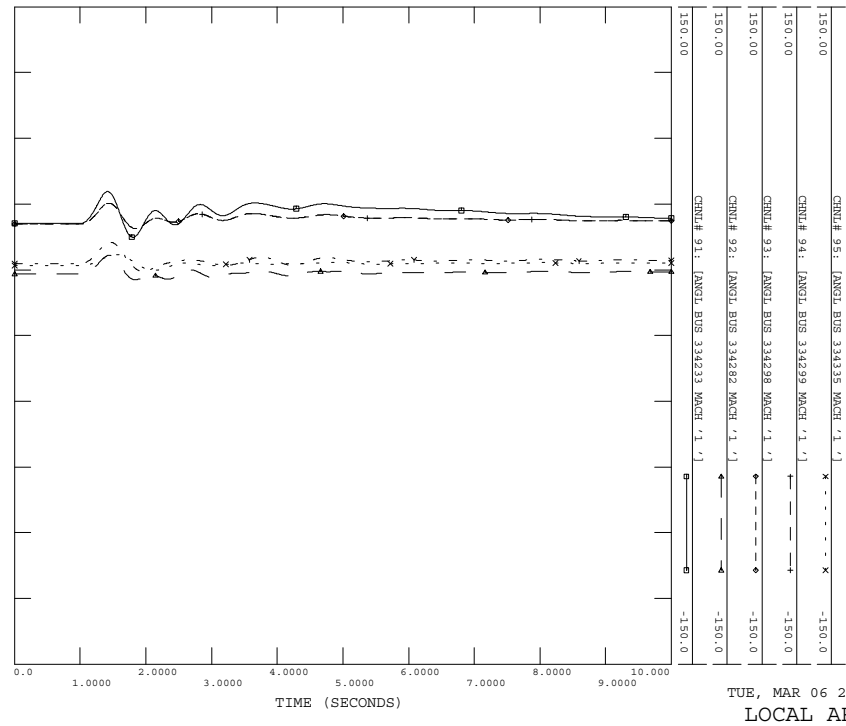
6+13CY SIG STUCKERK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT



6+13CY SIG STUCKERK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT

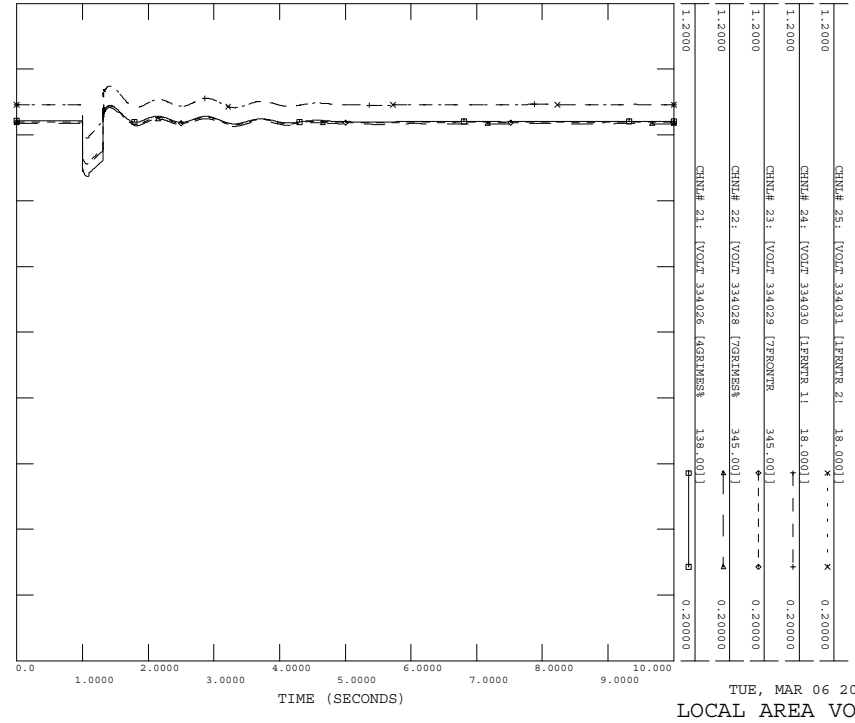


6+13CY SIG STUCKERK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT

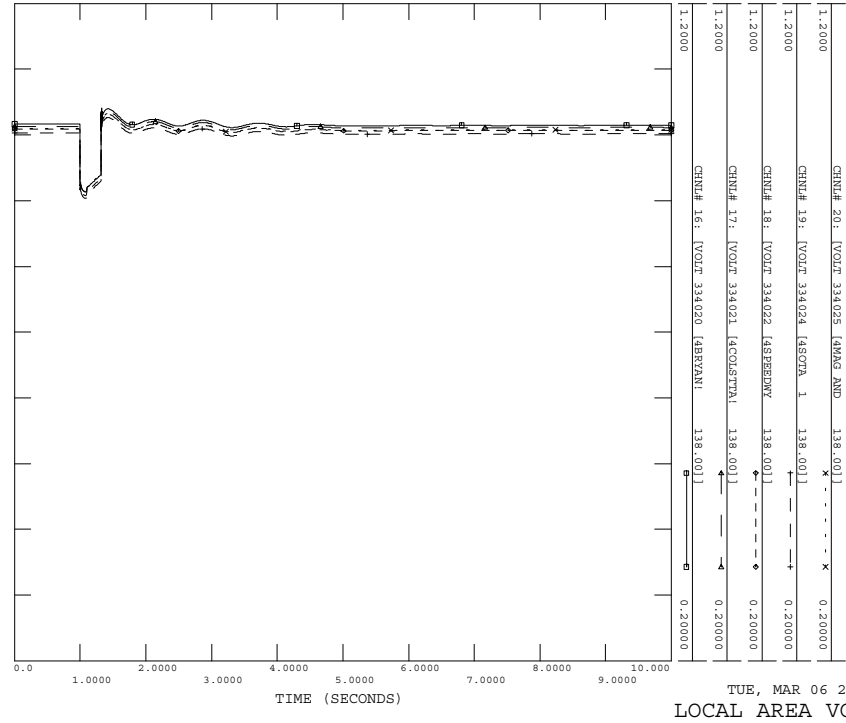




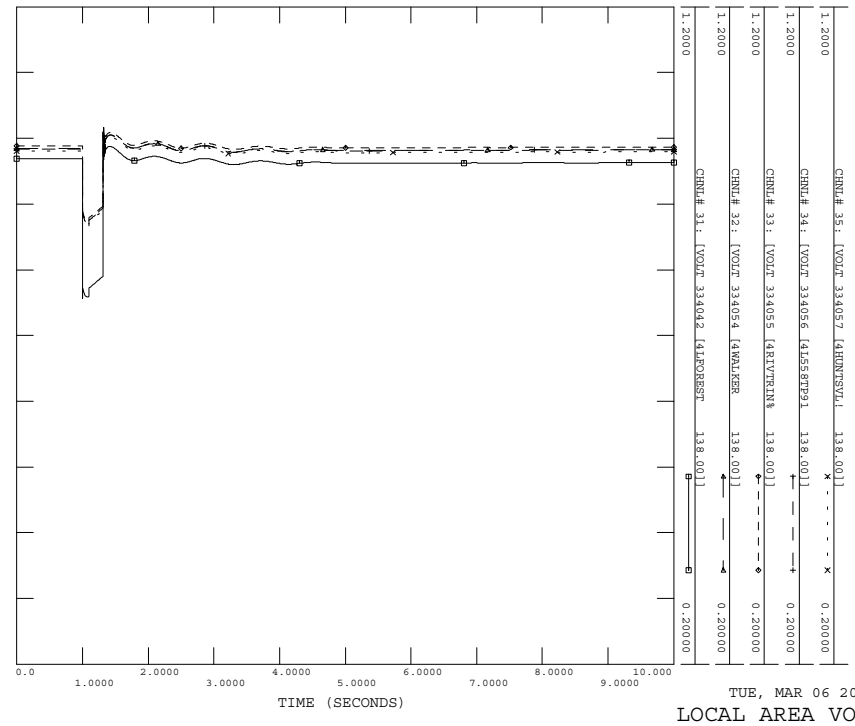
6+13CY SIG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



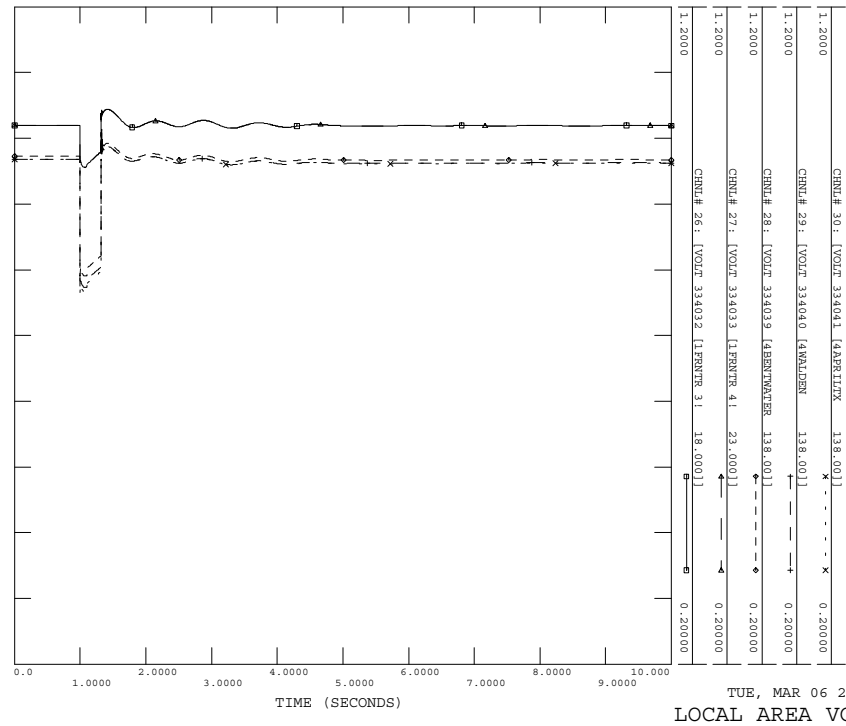
6+13CY SIG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



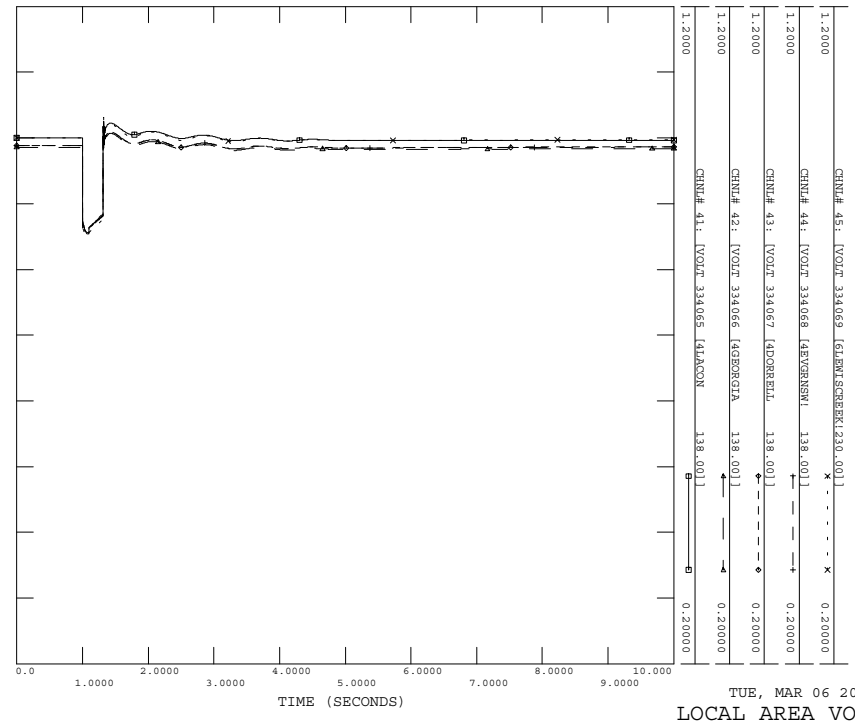
6+13CY SIG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



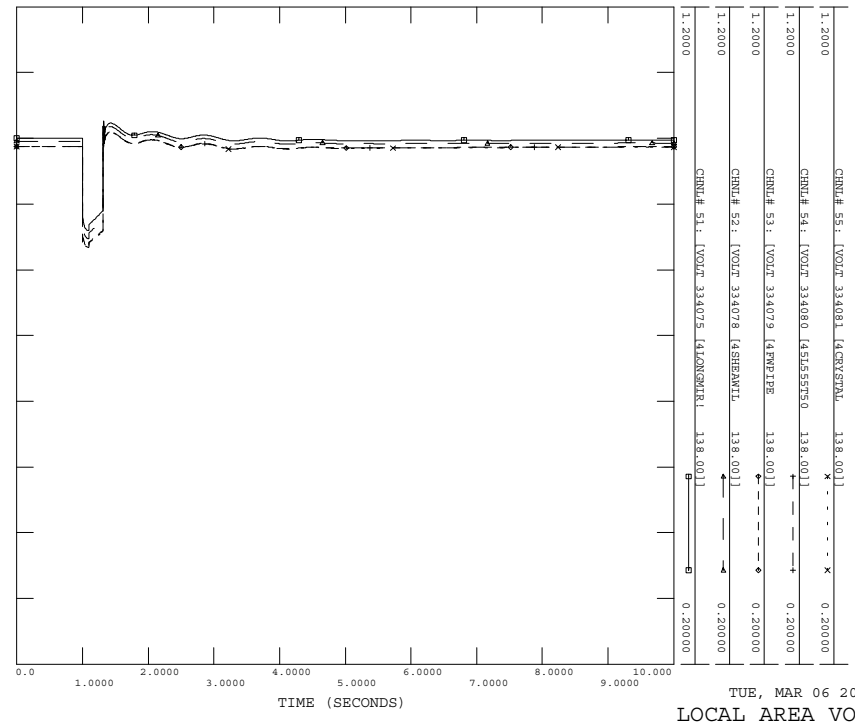
6+13CY SIG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



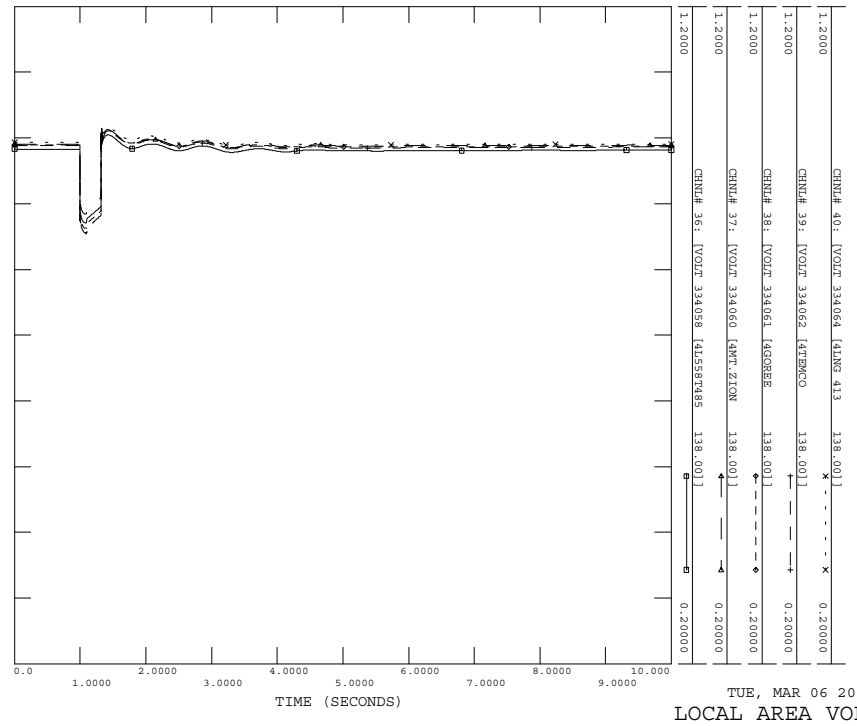
6+13CY SLG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



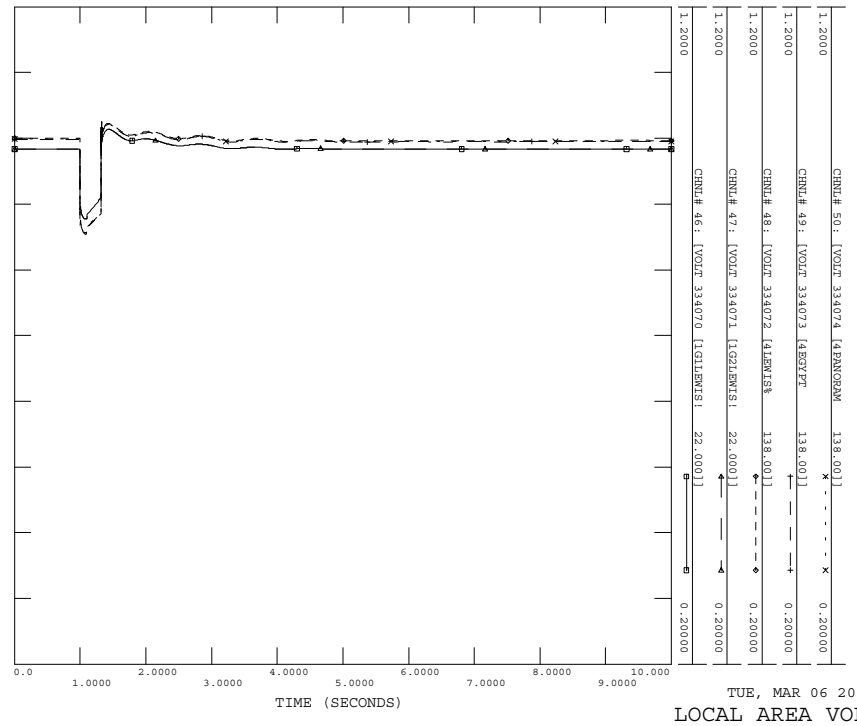
6+13CY SLG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



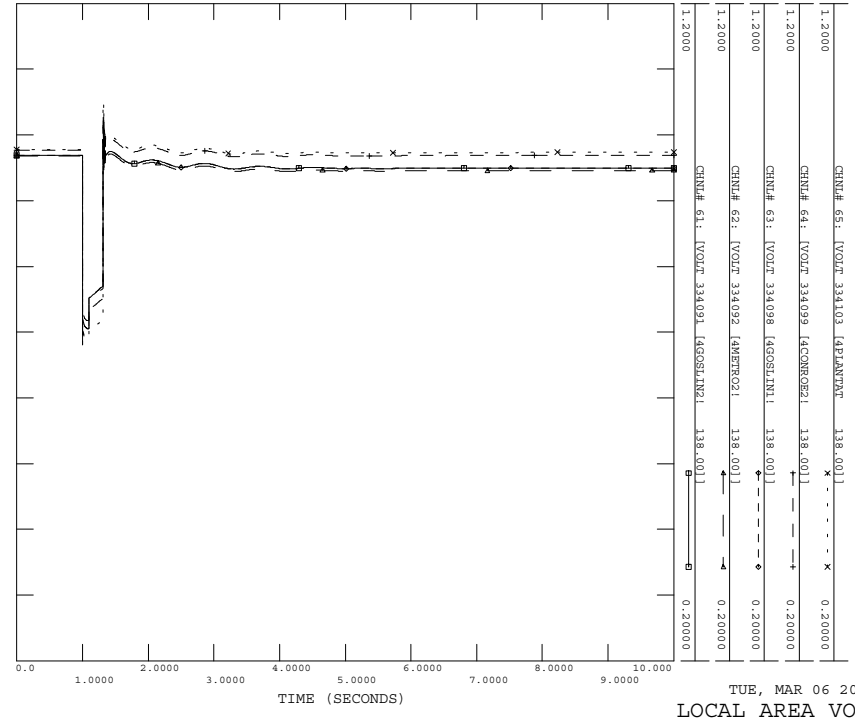
6+13CY SLG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



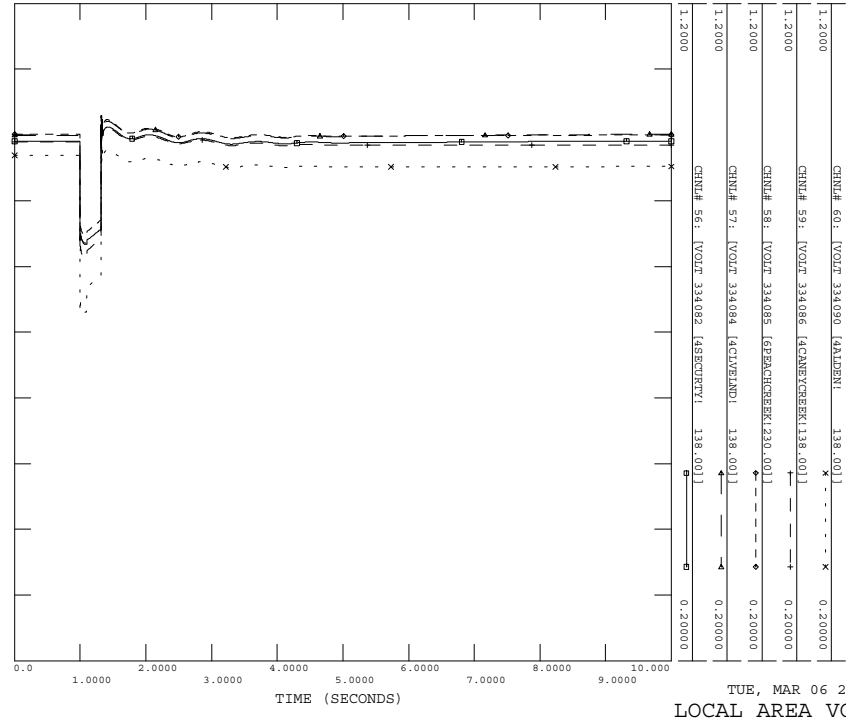
6+13CY SLG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



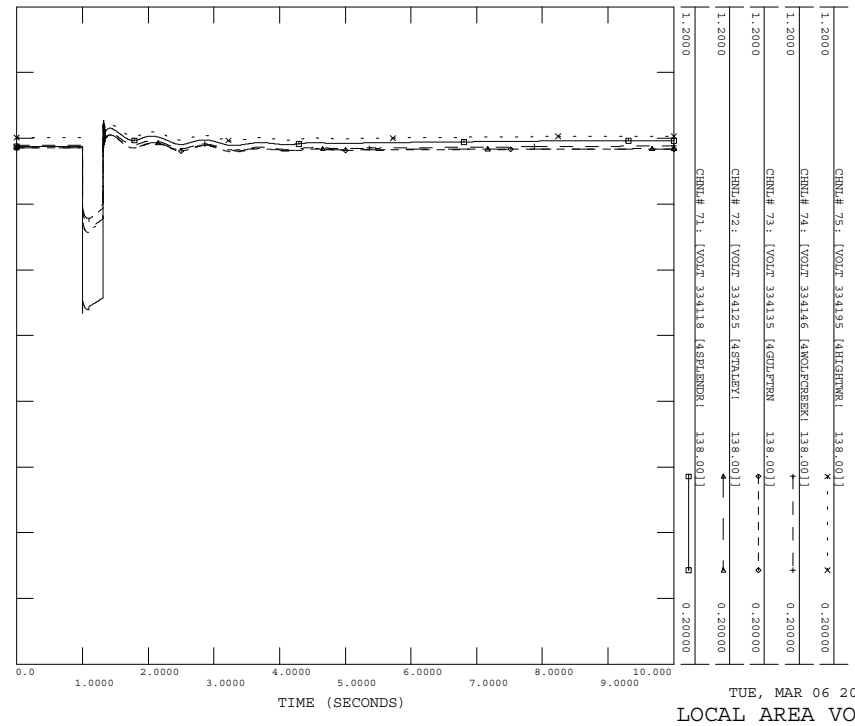
6+13CY SLG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



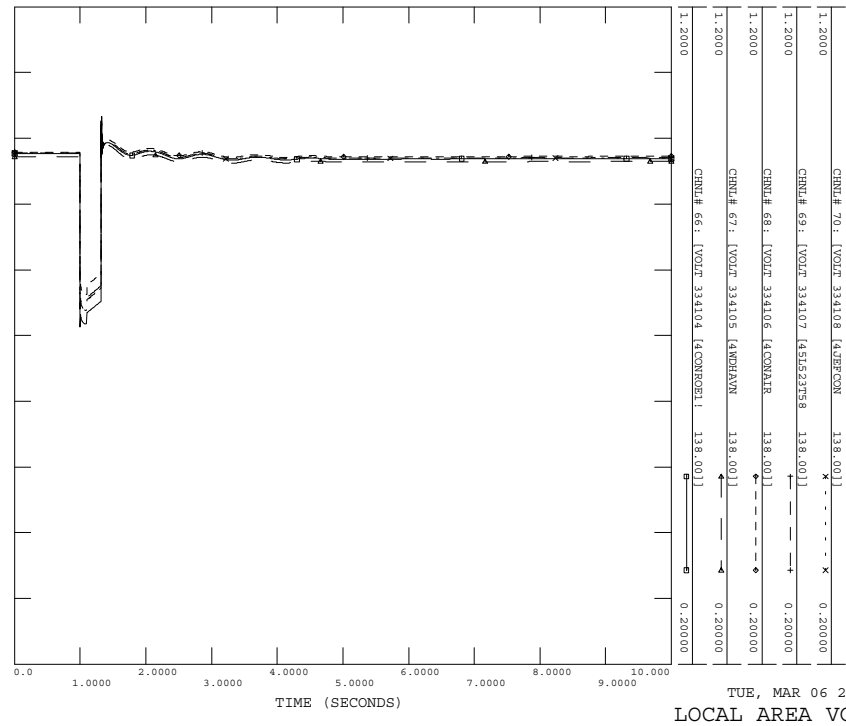
6+13CY SLG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



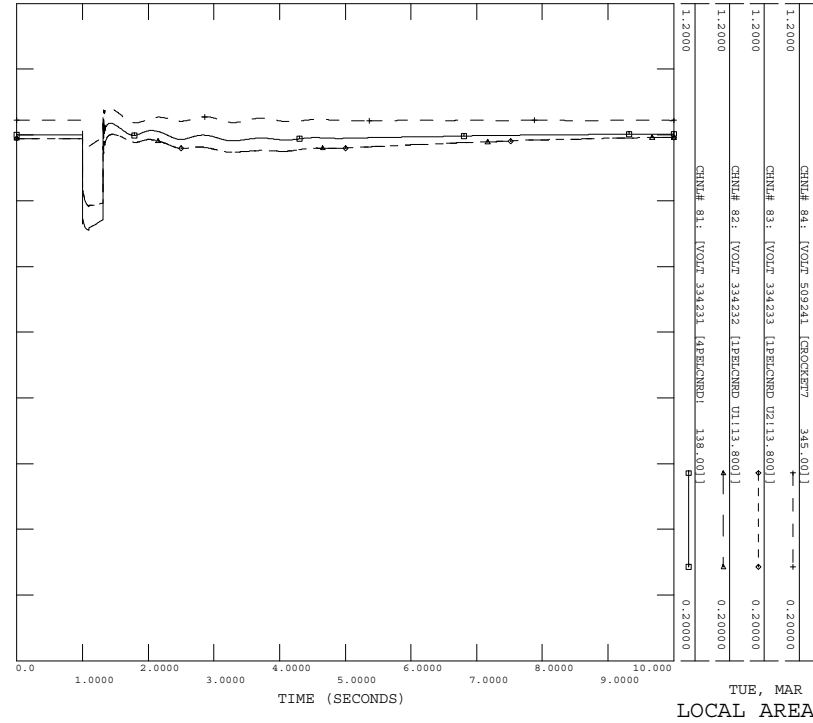
6+13CY SLG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



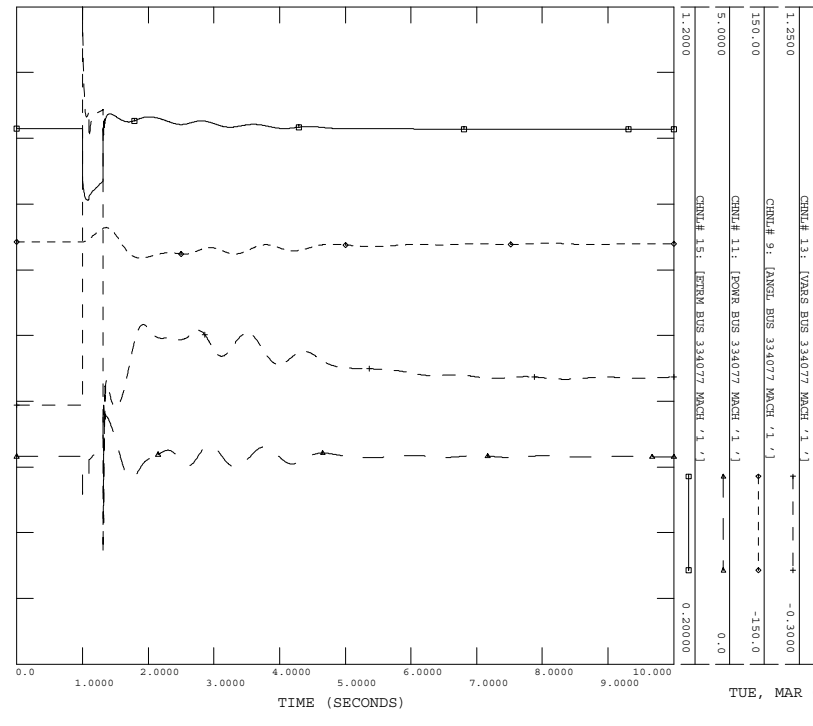
6+13CY SLG STUCKBRK PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



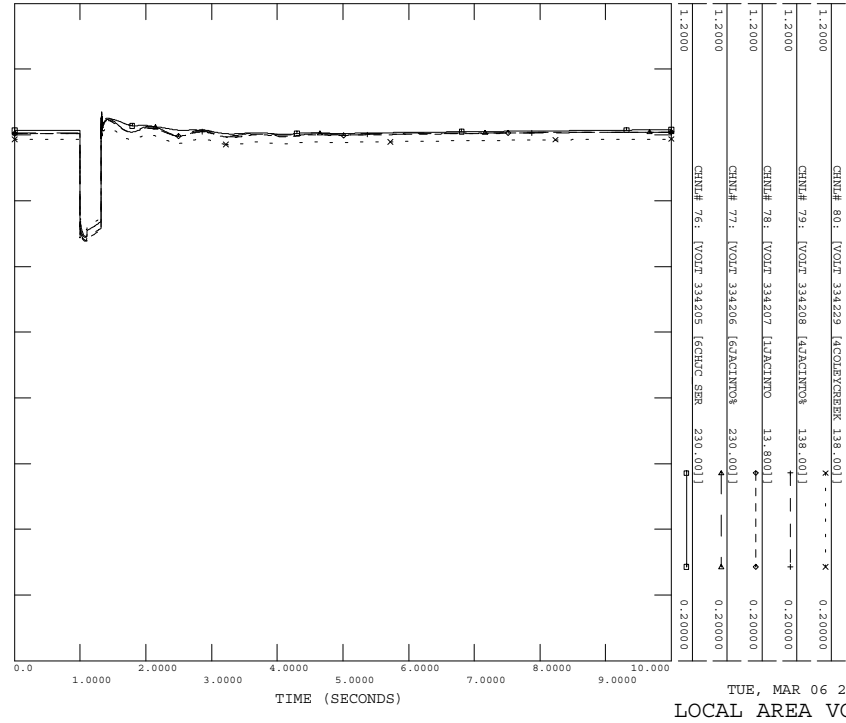
6+13CY SIG STUCKERR PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



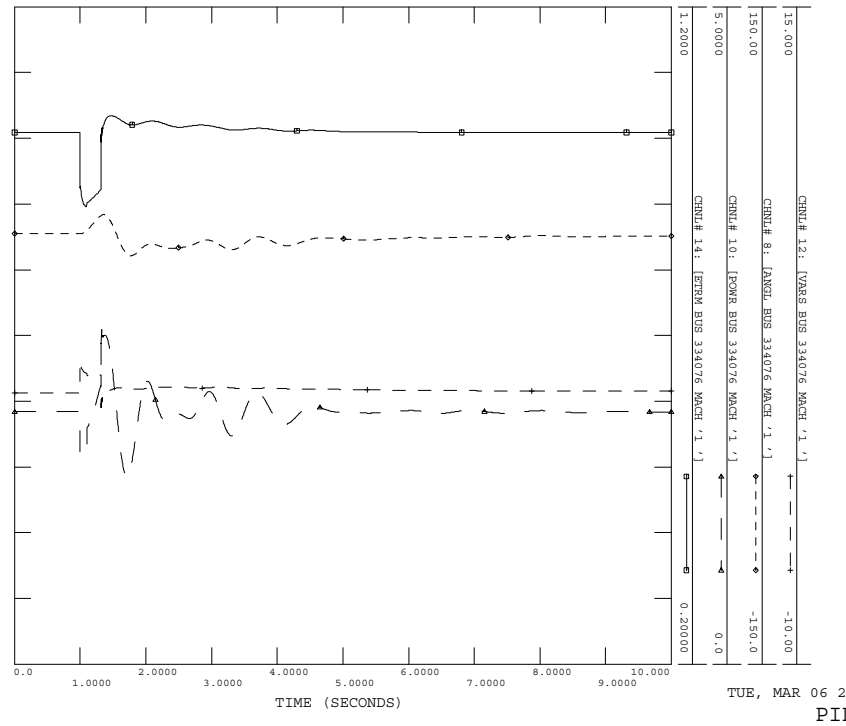
6+13CY SIG STUCKERR PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



6+13CY SIG STUCKERR PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138



6+13CY SIG STUCKERR PORTER- OAK RIDGE 138 KV  
 TRIP PORTER- OAK RIDGE 138 KV, PORTER-  
 FILE: Fault-17A.OUT  
 SPLENDORA 138

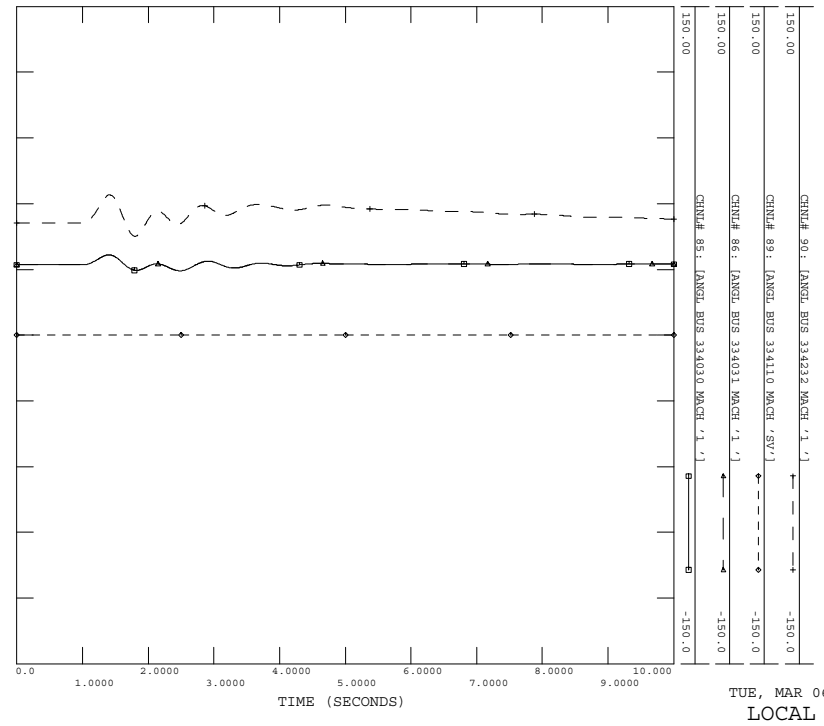


### **C.1.41      FAULT-18A**

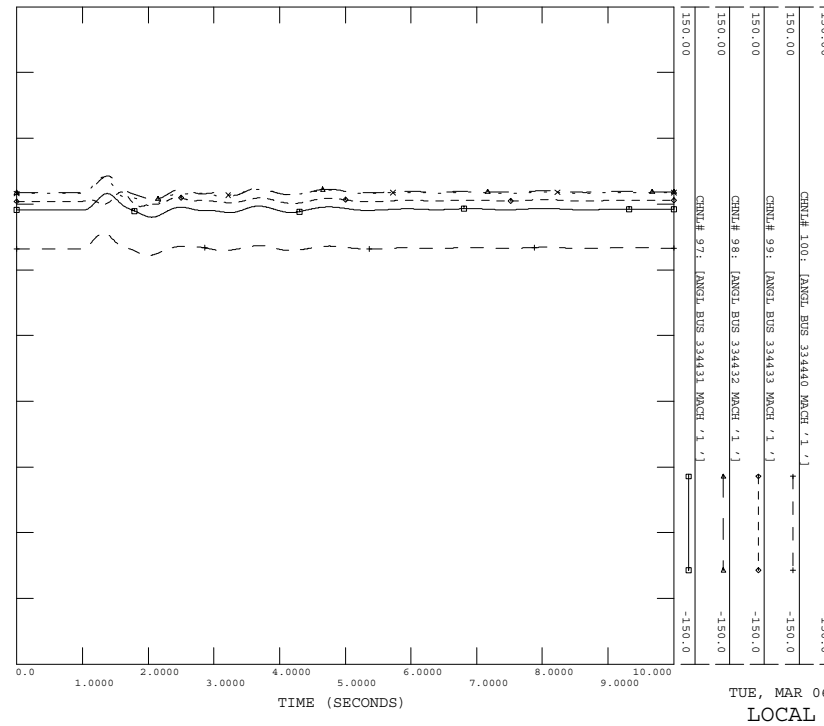
3 phase fault on the Porter 230/138 kV trafo

- a) Apply fault at Porter 138kV bus
- b) Clear fault after 6 cycles by tripping the Porter 230/138 kV trafo
- c) Breaker (24000) Stuck at Porter
- d) Clear fault after 13 cycles by tripping the Porter - Dry creek 138 kV

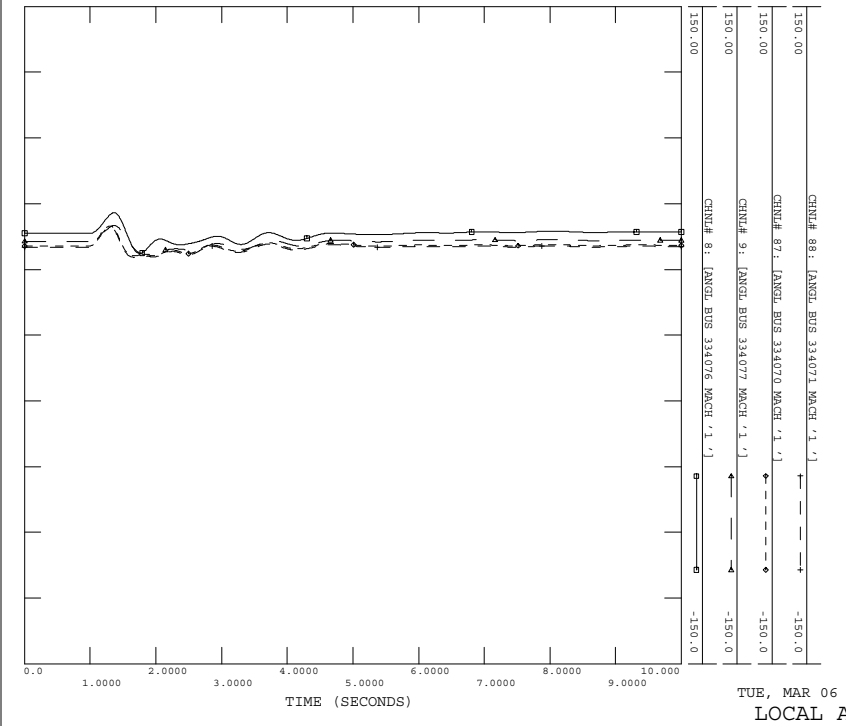
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-19A.OUT



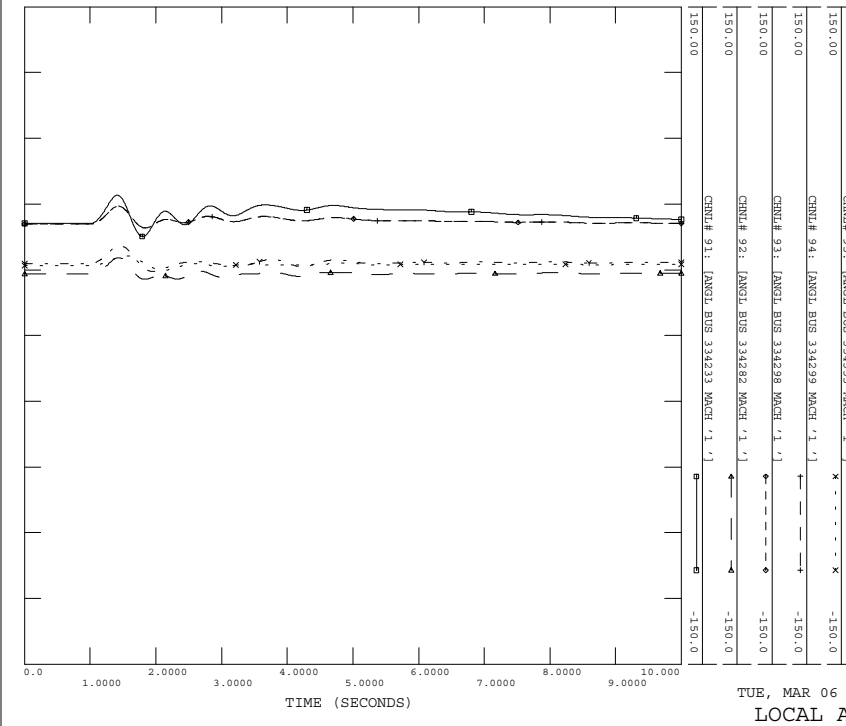
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-19A.OUT



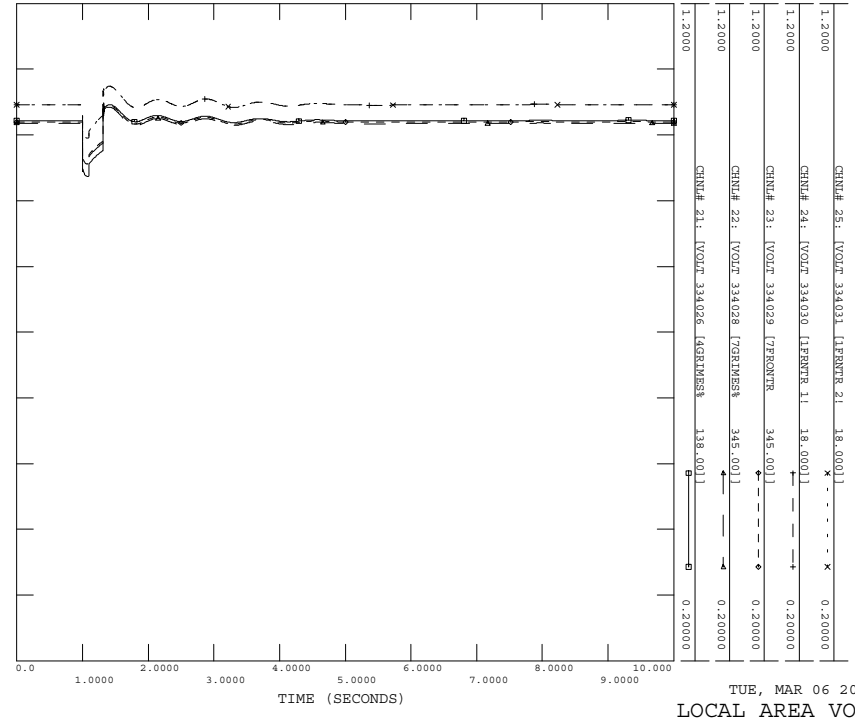
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-19A.OUT



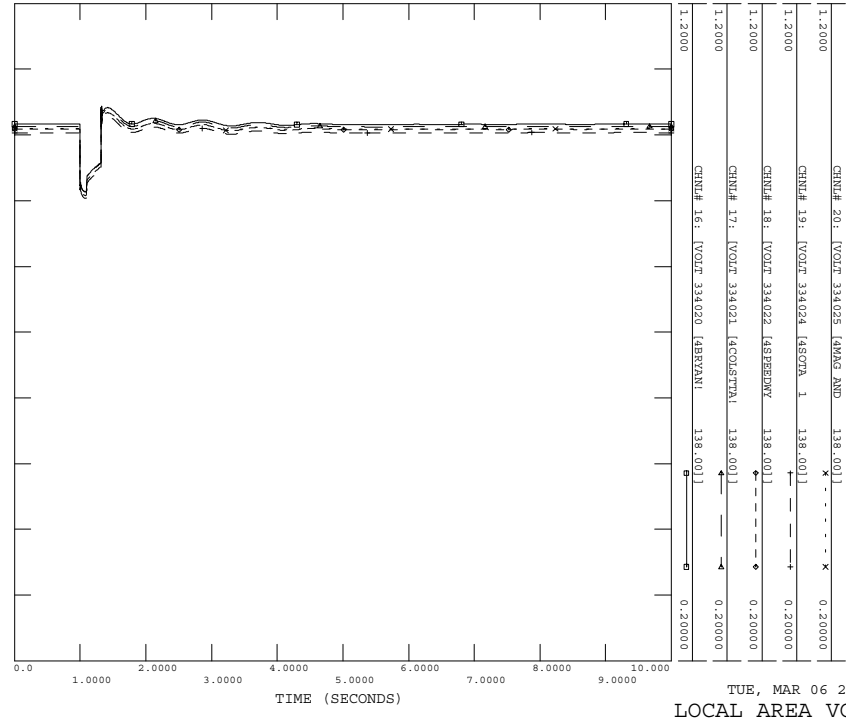
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-19A.OUT



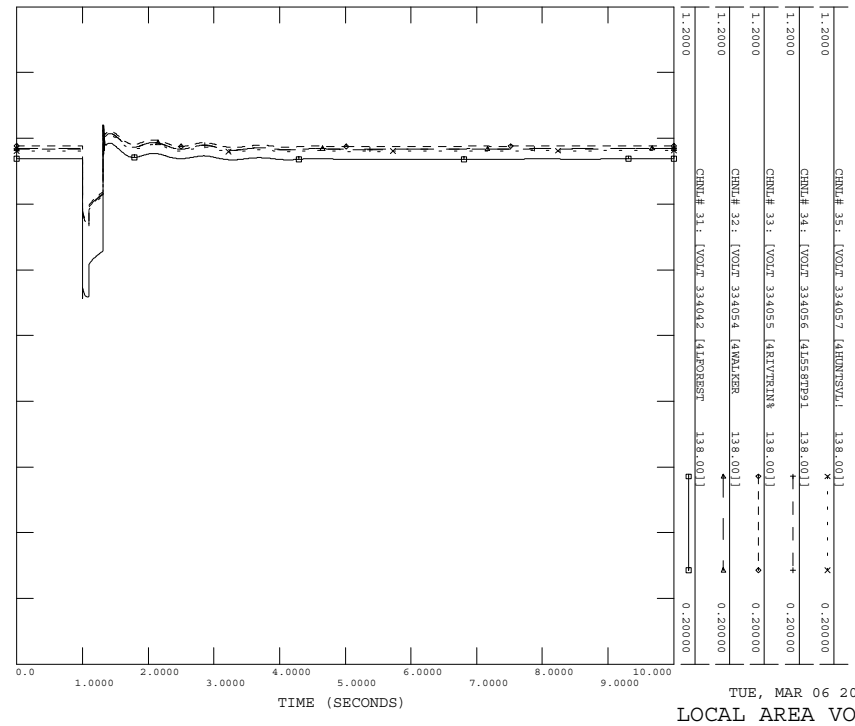
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT



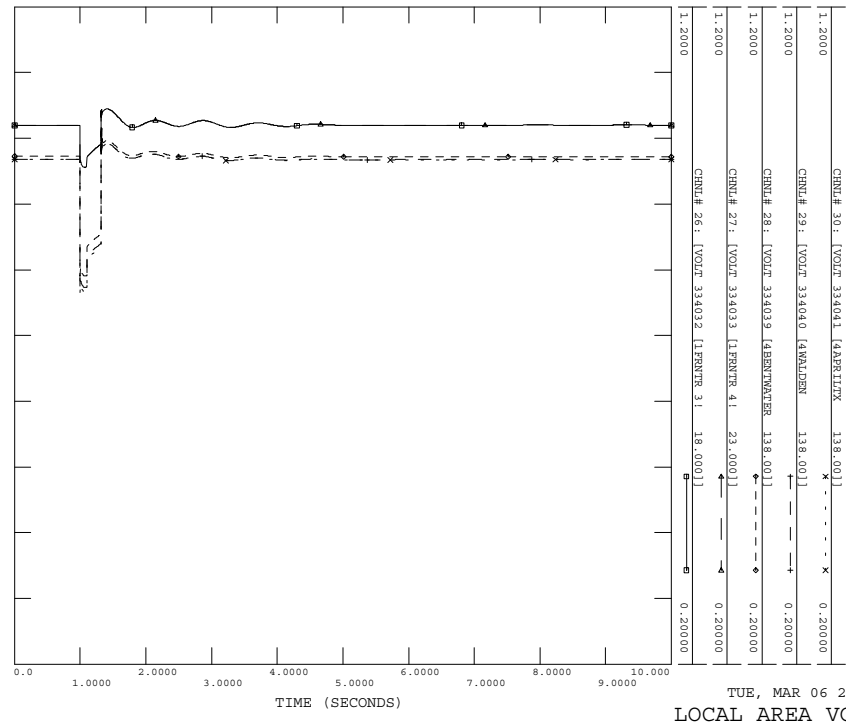
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT



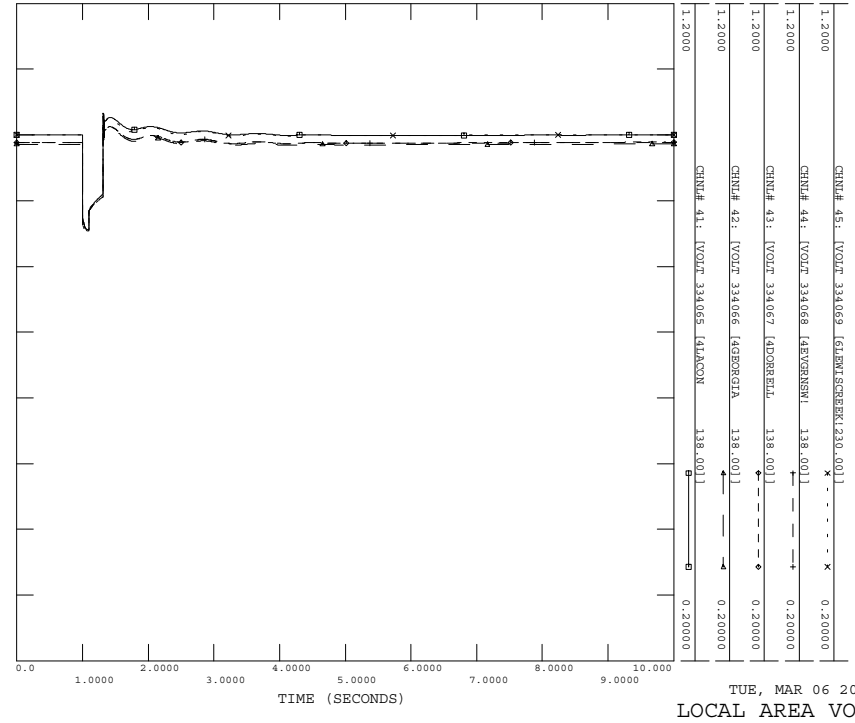
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT



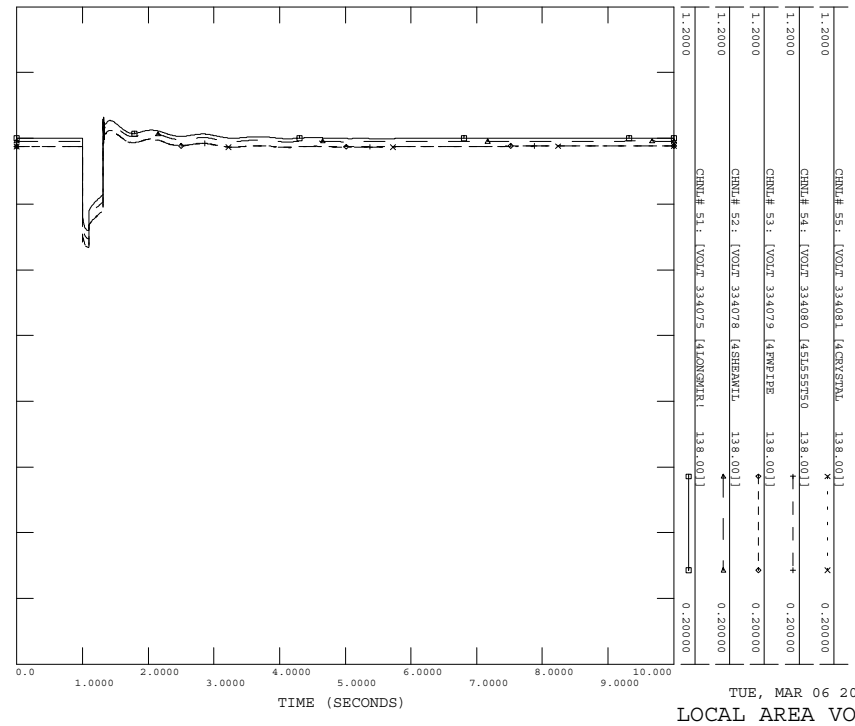
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT



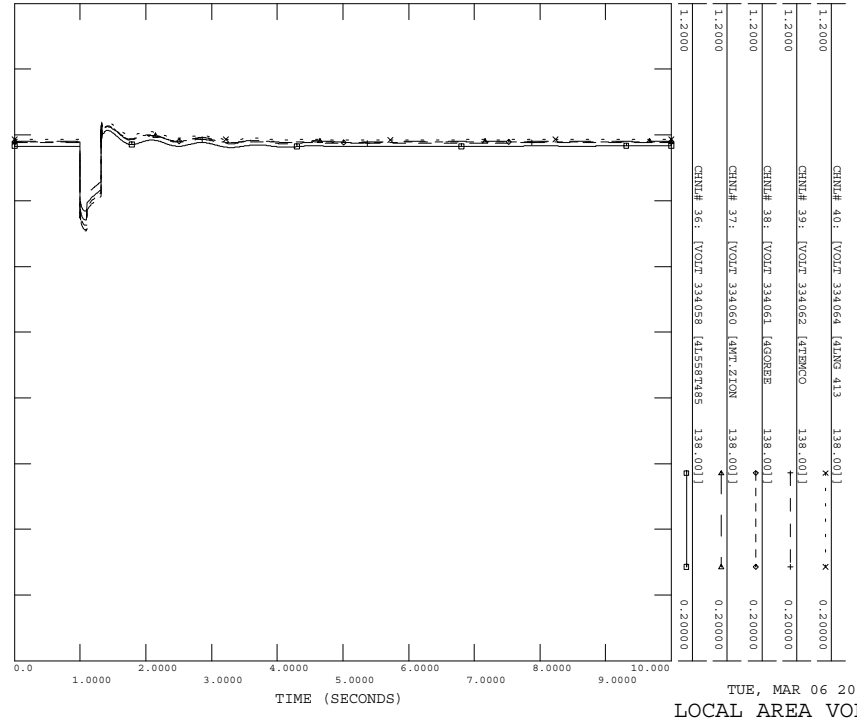
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT



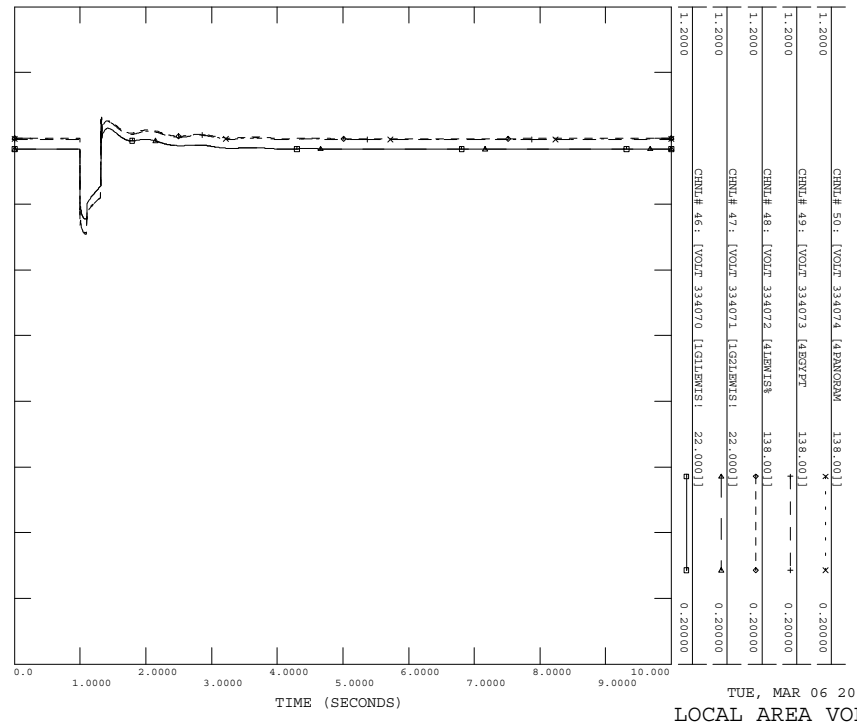
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT



6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT

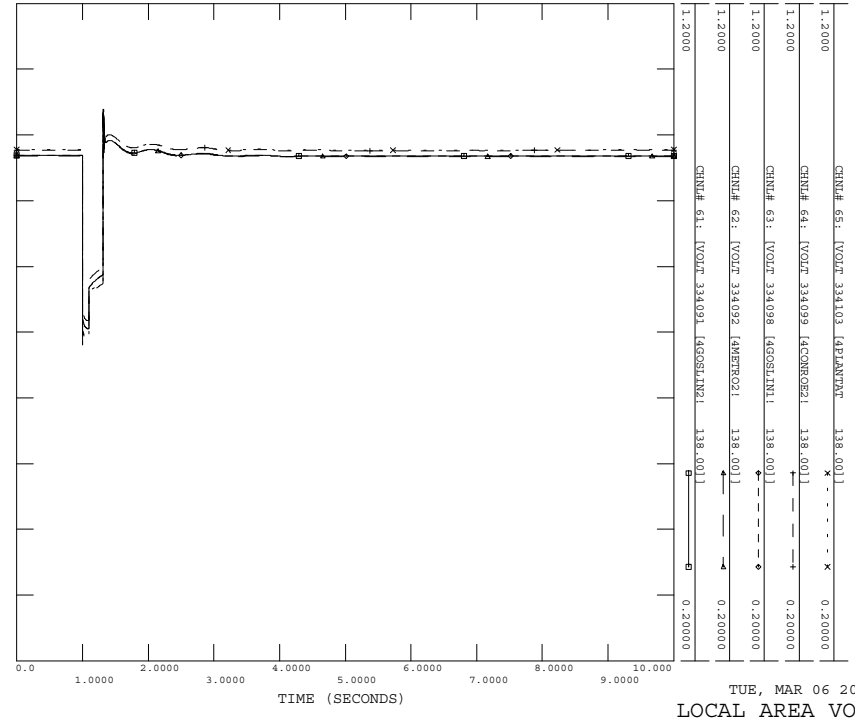


6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT

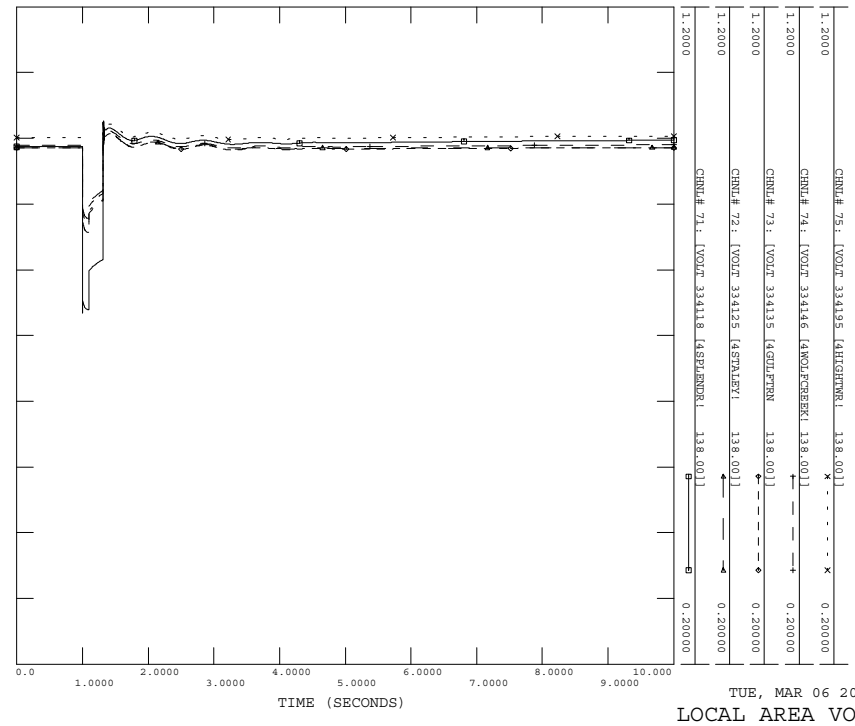




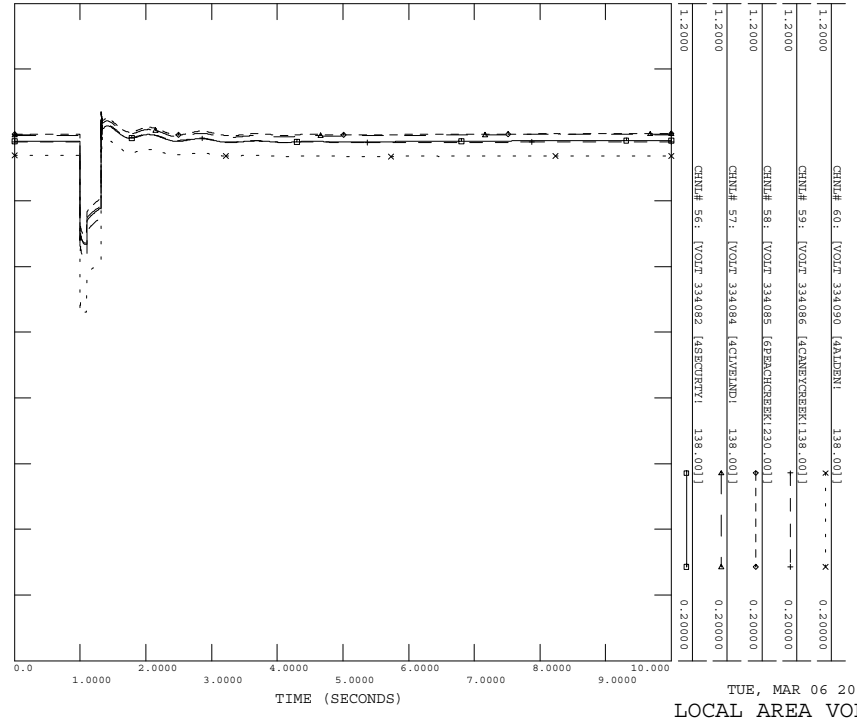
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT



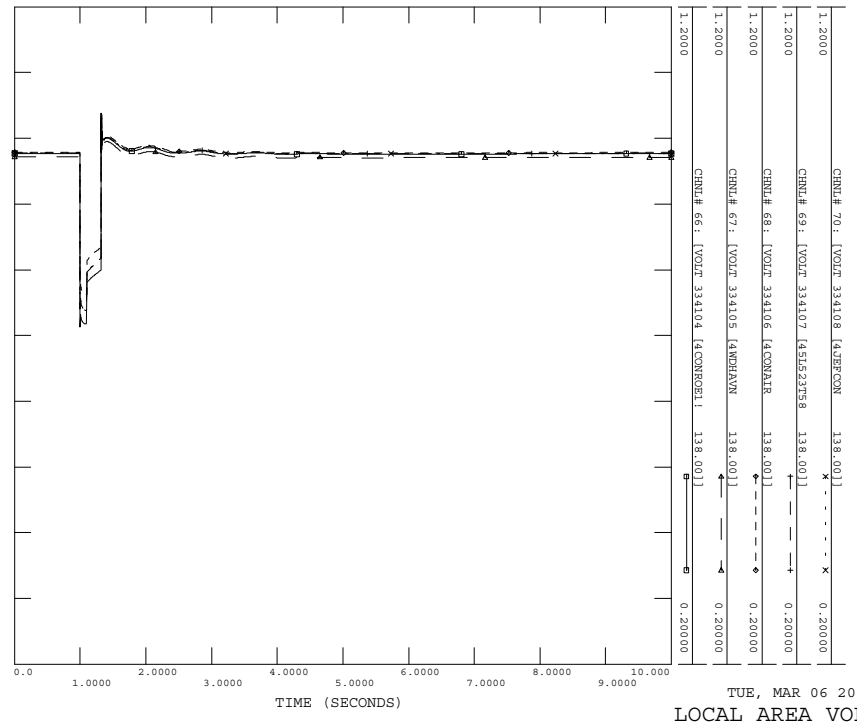
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT



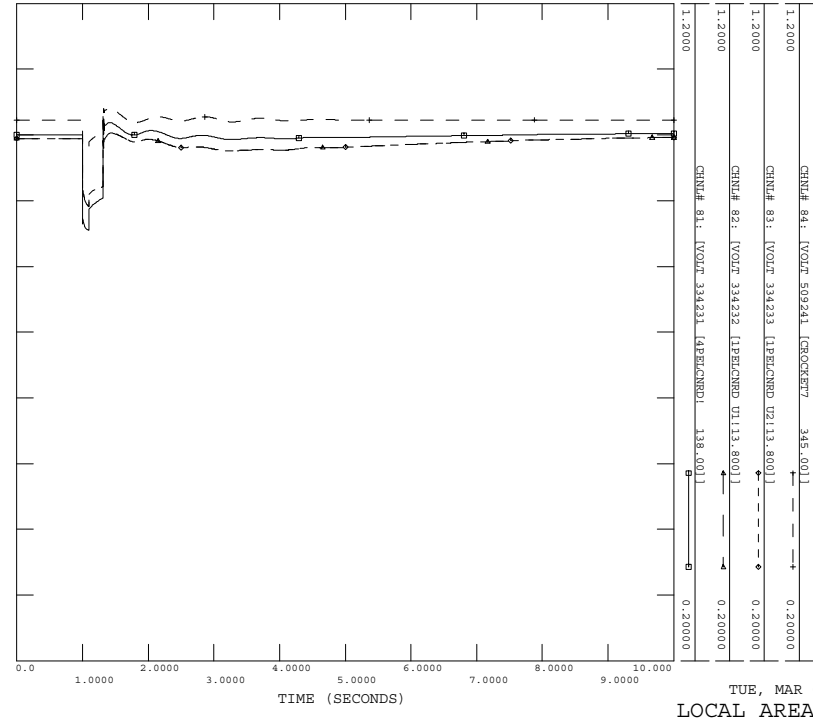
6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT



6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.OUT

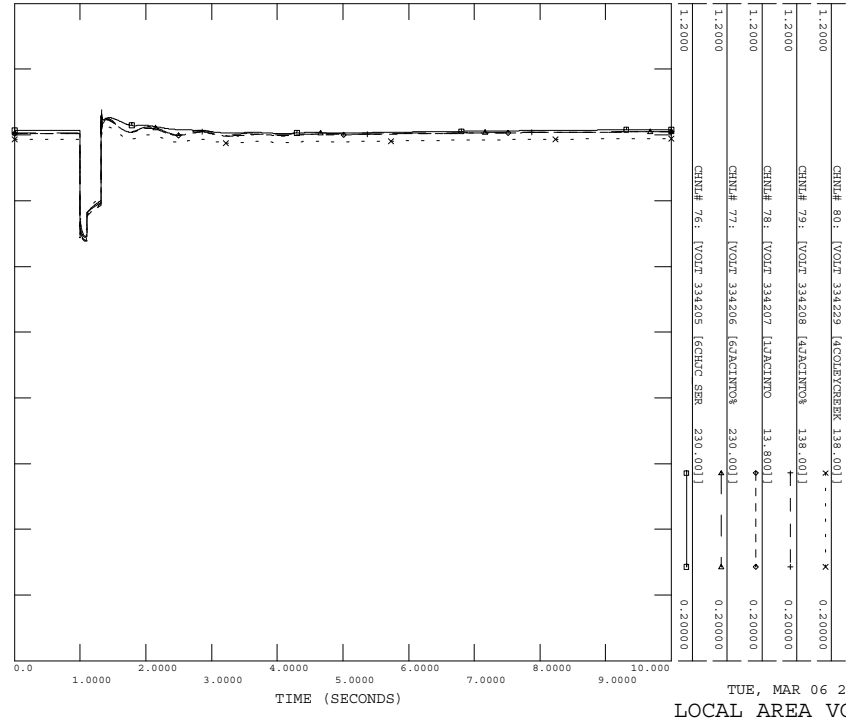


6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.0UT



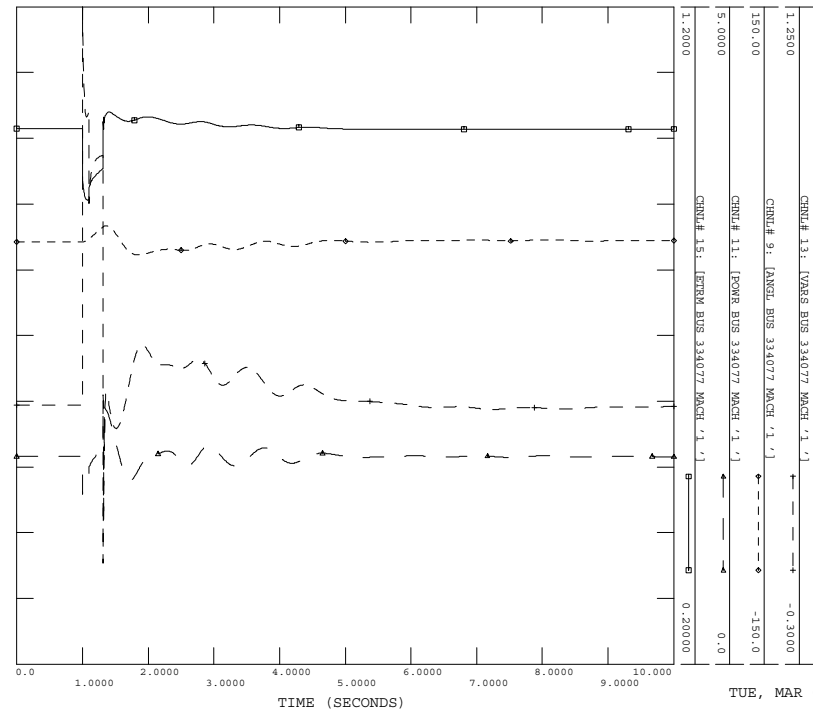
TUE, MAR 06 2012 11:03  
 LOCAL AREA VOLTAGES

6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.0UT



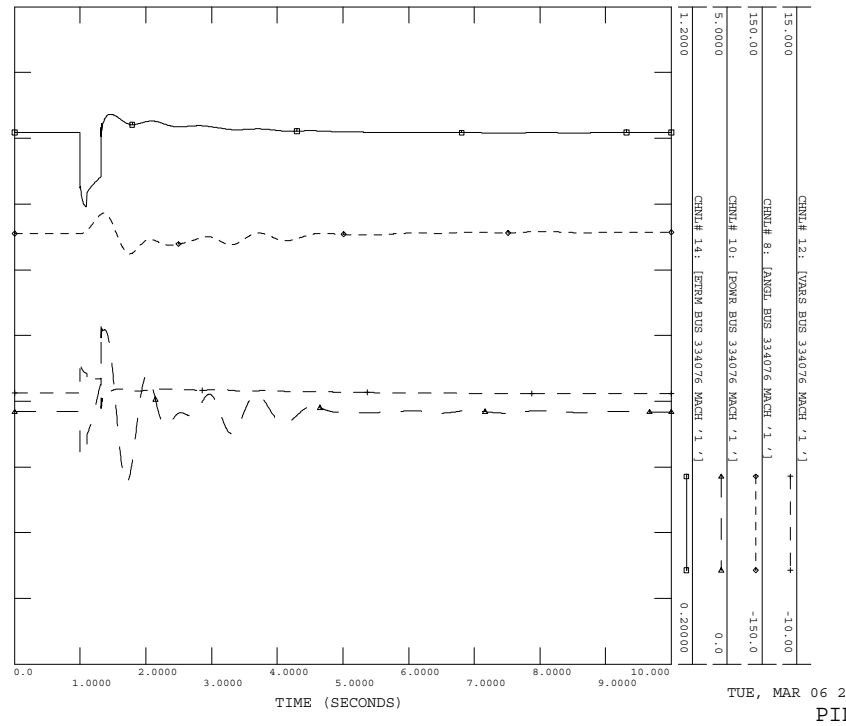
TUE, MAR 06 2012 11:03  
 LOCAL AREA VOLTAGES

6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.0UT



TUE, MAR 06 2012 11:03  
 PID287-ST

6+13CY SLG STUCKERK PORTER 230/138 KV TRAPO  
 TRIP PORTER 230/138 KV TRAPO, PORTER - DRY CREEK 138 KV  
 FILE: Fault-18A.0UT



TUE, MAR 06 2012 11:03  
 PID287-GT