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Memo

Date: February 19, 2010

Subject: Updated Faults at Ray Braswell 500 kV

From: Amit Kekare

This is an addendum for the PID-226 Facility Study Report¹. The Ray Braswell 500 kV substation breaker arrangement during the Facility Study performed was not up-to-date and hence all the Faults at Ray Braswell 500 kV substation were repeated. The Fault 6a through Fault 10b in Table 2-4 in Facility Study Report are superseded by faults listed in this addendum.

The [Table 1](#) shows the updated fault list at Ray Braswell 500 kV substation. The faults listed in [Table 1](#) were repeated on 2012 summer peak system conditions. The results are tabulated in [Table 2](#).

Plots for all the simulated faults are included in Appendix C-01.

¹ 'Stability analysis for Facility study of PID-226', Report No: 2009-E3350-R1, August 27, 2009.

Table 1: Updated Fault list for PID-226 Facility study

CASE	LOCATION	TYPE	CLEARING TIME (cycles)		SLG FAULT IMPEDANCE (MVA)	STUCK BREAKER #	PRIMARY BREAKER TRIP #	SECONDARY BREAKER TRIP	TRIPPED FACILITIES
			PRIMARY	Back-up					
FAULT-6a	Ray Braswell - Franklin 500 kV	3 PH	5	9	765.3-j6686.74	J4908	J2404, J2408, J4904	J4928, J9218, J9234	Ray Braswell - Franklin 500 kV; Ray Braswell - Lakeover 500 kV
FAULT-6b	Ray Braswell - Franklin 500 kV	3 PH	5	9	765.3-j6686.74	J4914	J2404, J2408, J4944	J4908, J4904, J4932	Ray Braswell - Franklin 500 Kv; Ray Braswell 500/230 kV transformer #2
FAULT-7a	Ray Braswell - Lakeover 500 kV	3 PH	5	9	765.3-j6686.74	J4928	J4908, J9218, J9234	J2230, J2233, J4920	Ray Braswell - Lakeover 500 kV; Ray Braswell - B. Wilson 500 kV
FAULT-7b	Ray Braswell - Lakeover 500 kV	3 PH	5	9	765.3-j6686.74	J4908	J4928, J9218, J9234	J4904, J2404, J4944, J4932	Ray Braswell - Lakeover 500 kV
FAULT-8a	Ray Braswell - B. Wilson 500 kV	3 PH	5	9	765.3-j6686.74	J4928	J4920, J2230, J2233	J4908, J9218, J9234	Ray Braswell - B. Wilson 500 kV; Ray Braaswell - Lakeover 500 kV
FAULT-8b	Ray Braswell - B. Wilson 500 kV	3 PH	5	9	765.3-j6686.74	J4920	J4928, J2230, J2233	J4936, J4917	Ray Braswell - B. Wilson 500 kV
FAULT-9a	Ray Braswell 500/ 115 kV Transformer #1	3 PH	5	9	765.3-j6686.74	J4904	J4917	J4908, J4944, J4932	Ray Braswell 500/ 115 kV Transformer #1;
FAULT-9b	Ray Braswell 500/ 115 kV Transformer #1	3 PH	5	9	765.3-j6686.74	J4917	J4904	J4952, J4936	Ray Braswell 500/ 115 kV Transformer #1
FAULT-10a	Ray Braswell 500/ 230 kV Transformer #2	3 PH	5	9	765.3-j6686.74	J4914	J4952	J2404, J2408, J4944	Ray Braswell 500/ 230 kV Transformer #2; Ray Braswell - Franklin 500 kV
FAULT-10b	Ray Braswell 500/ 230 kV Transformer #2	3 PH	5	9	765.3-j6686.74	J4952	J4914	J4920, J4917, J4936	Ray Braswell 500/230 kV transformer #2

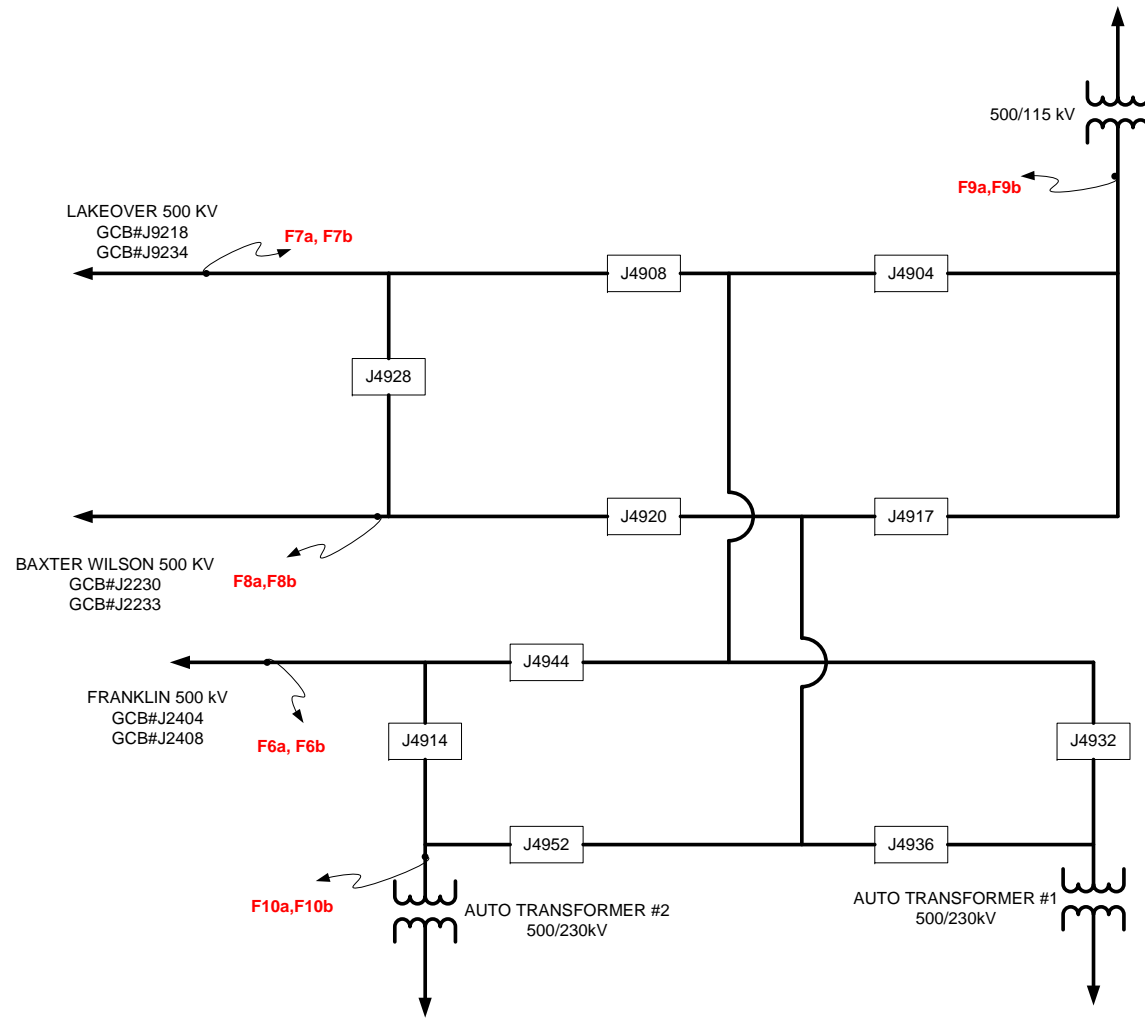


Figure 1: Breaker Layout diagram for Ray Braswell 500 kV

Table 2: summary of results

CASE	PRE-PID226		POST-PID226	
	Stable	Acceptable Voltages	Stable	Acceptable Voltages
	?	?	?	?
FAULT-6a	Not tested		YES	YES
FAULT-6b	Not tested		YES	YES
FAULT-7a	Not tested		YES	YES
FAULT-7b	Not tested		YES	YES
FAULT-8a	Not tested		YES	YES
FAULT-8b	Not tested		YES	YES
FAULT-9a	Not tested		YES	YES
FAULT-9b	Not tested		YES	YES
FAULT-10a	Not tested		YES	YES
FAULT-10b	Not tested		YES	YES

Conclusion

Based upon the results of updated Ray Braswell 500 kV fault definitions, it can be concluded that the proposed PID-226 project will not have any adverse impact on the stability of the Entergy system in the local area.

- END -

Appendix C-01 Stability Plots for updated Faults at Ray Braswell 500 kV

APPENDIX- C

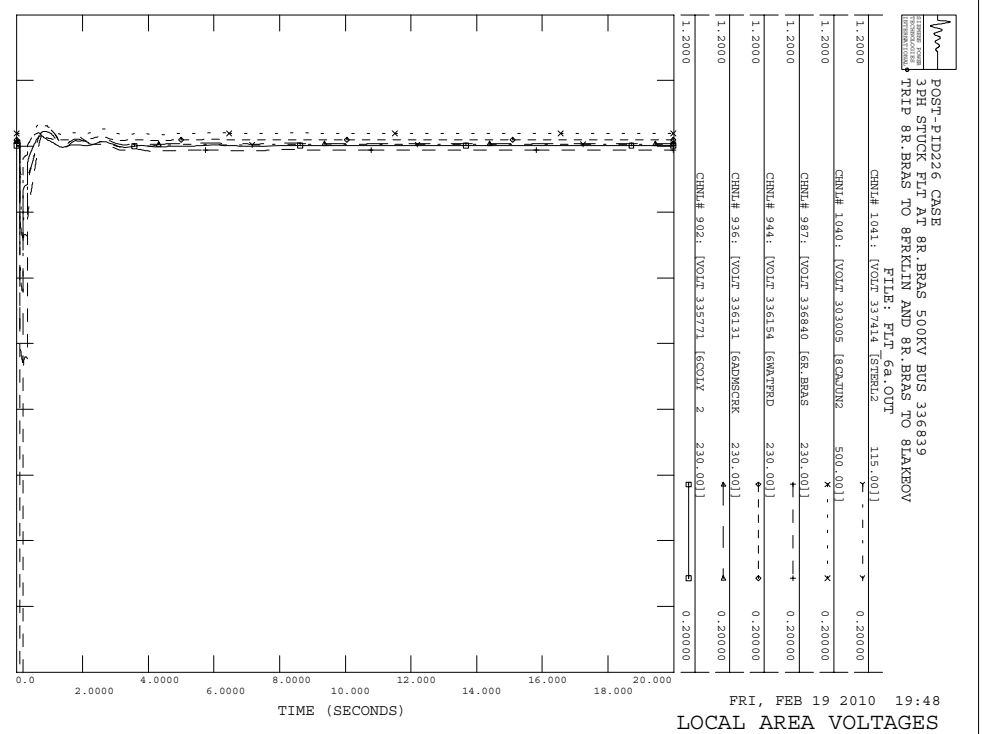
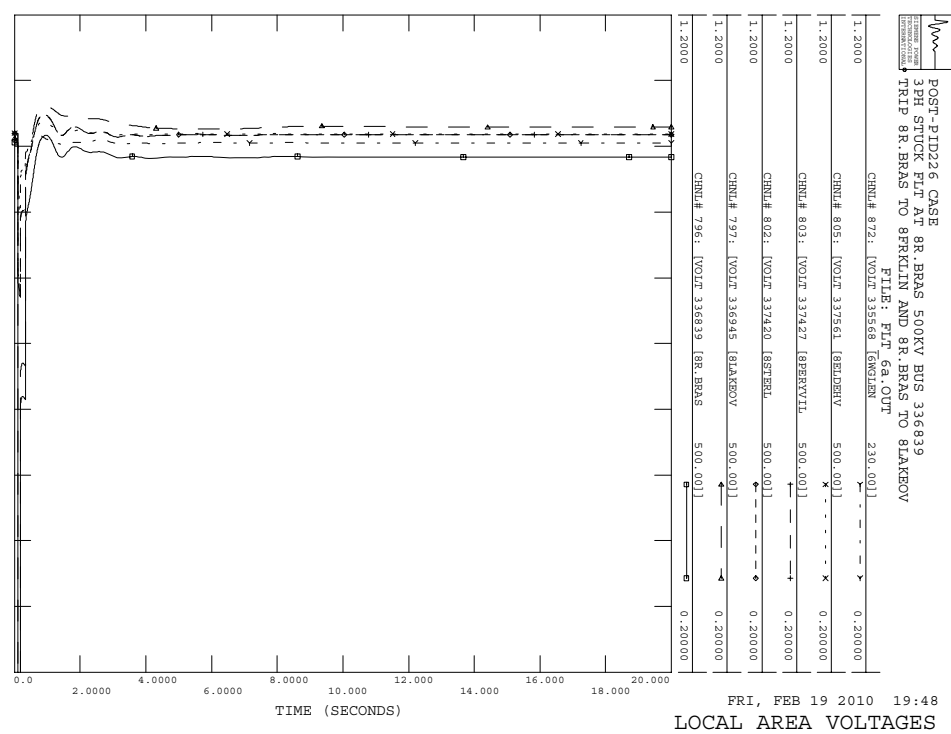
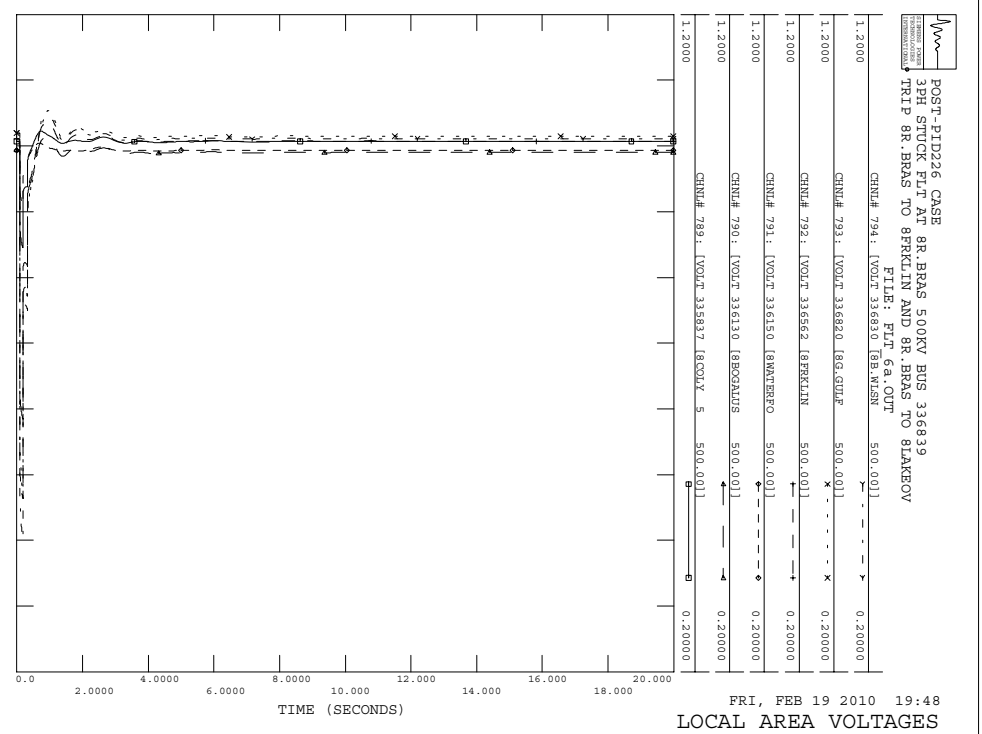
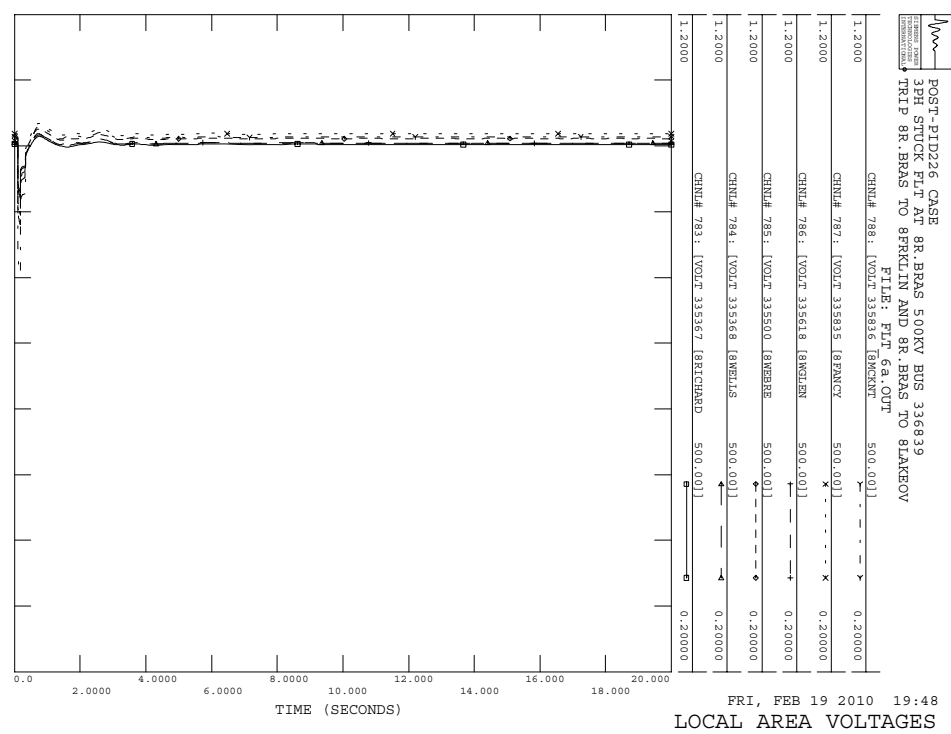
Stability Plots for Updated Faults at Ray Braswell 500 kV

C.1	FLT_6a	2
C.2	FLT_6b	3
C.3	FLT_7a	4
C.4	FLT_7b	5
C.5	FLT_8a	6
C.6	FLT_8b	7
C.7	FLT_9a	8
C.8	FLT_9b	9
C.9	FLT_10a	10
C.10	FLT_10b	11

C.1 FLT_6a

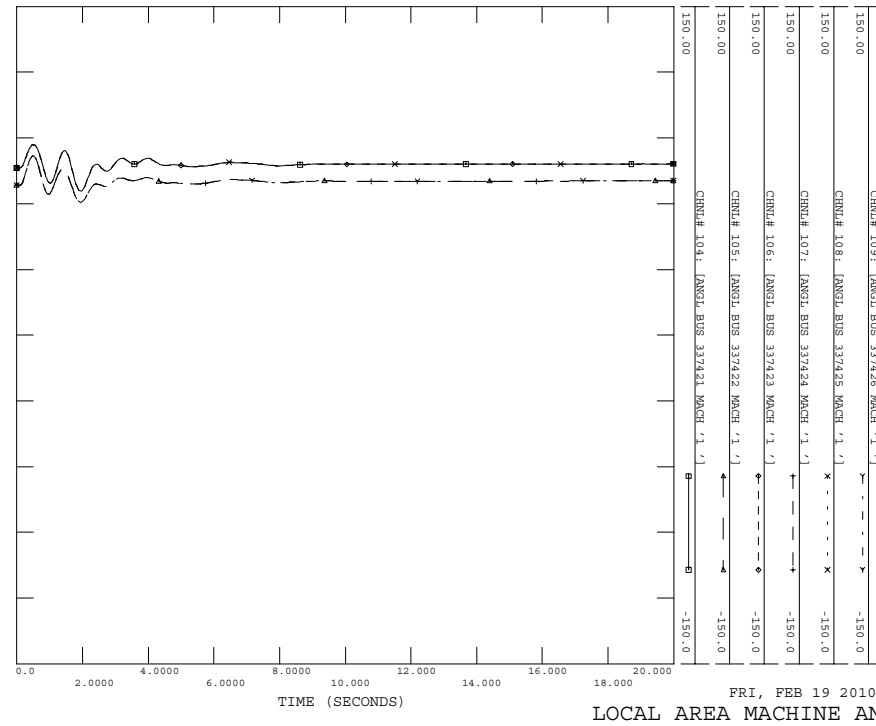
Stuck breaker fault on the 8R.BRAS (#336839) to 8FRKLIN (#336562) 500 kV line, near the 8R.BRAS.

- a) Apply 3 Phase Fault AT 8R.BRAS 500KV BUS 336839
- b) Run fault for 5 cycles.
- c) Remove Fault AT 8R.BRAS 500KV BUS 336839
- d) Apply 3 Phase fault at #336839 with admittance $765.3 -j 6686.74$ MVA
- e) Clear fault after 9 cycles by tripping Ray Braswell - Franklin 500 kV;
Ray Braswell - Lakeover 500 kV

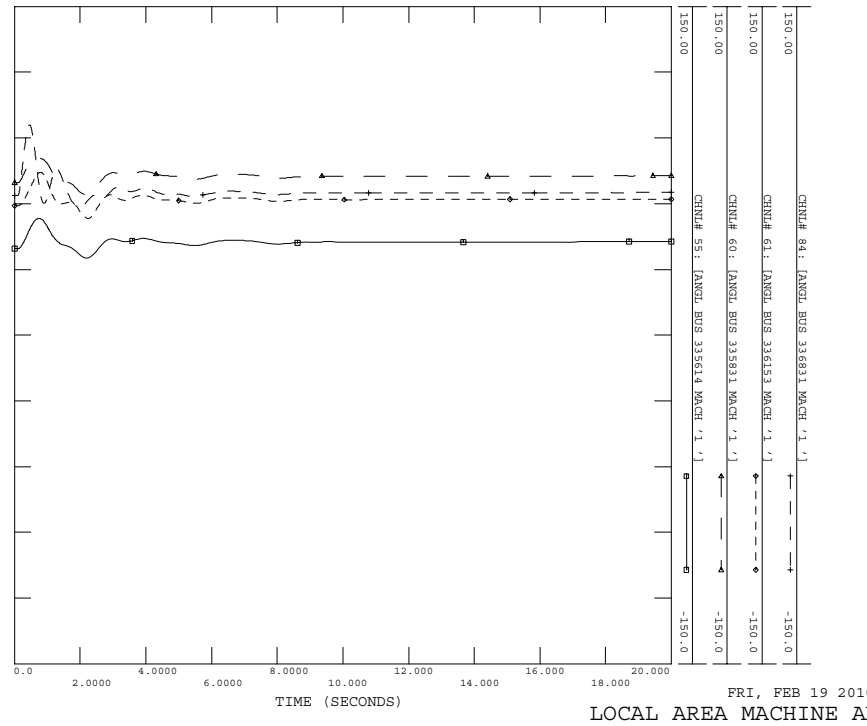




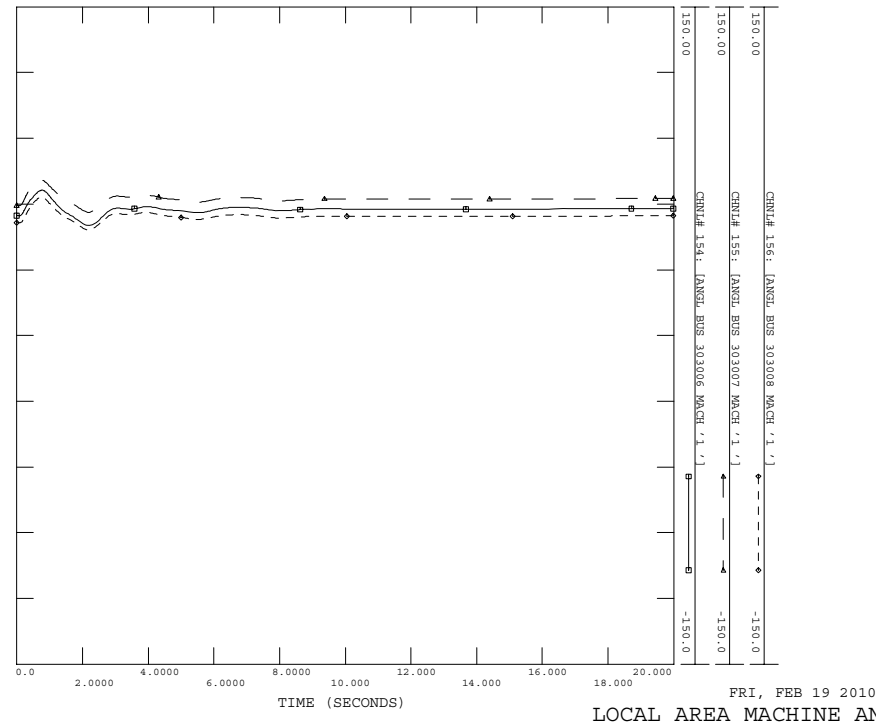
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 8FRKLIN AND 8R.BRAS TO 8LAKEOV
 FILE: FLT_6a.OUT



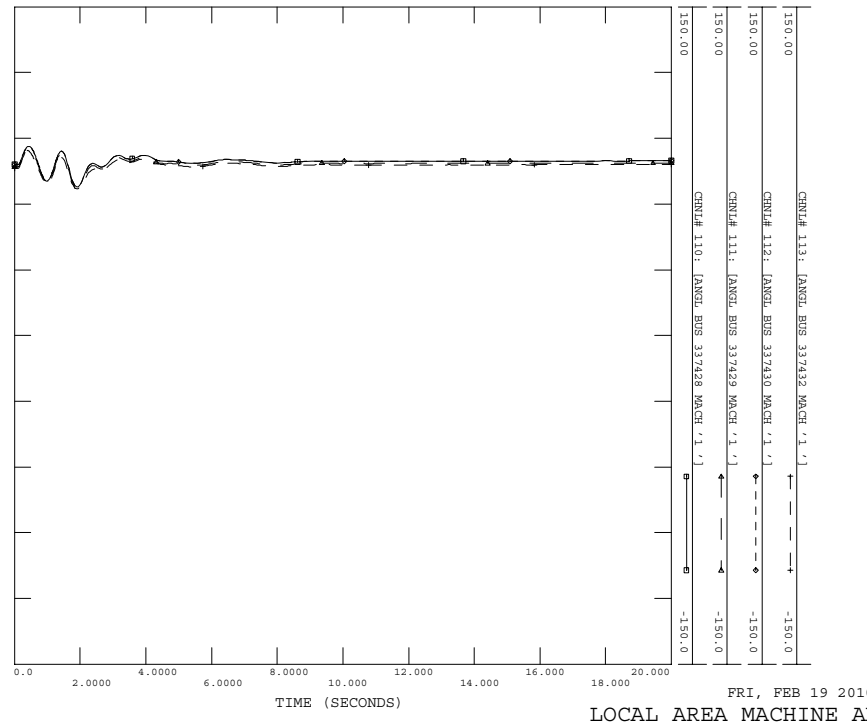
POST-PTD226 CASE
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 TRIP 8R.BRAS TO 8FRKLIN AND 8R.BRAS TO 8LAKEOV
 FILE: FLT_6a.OUT



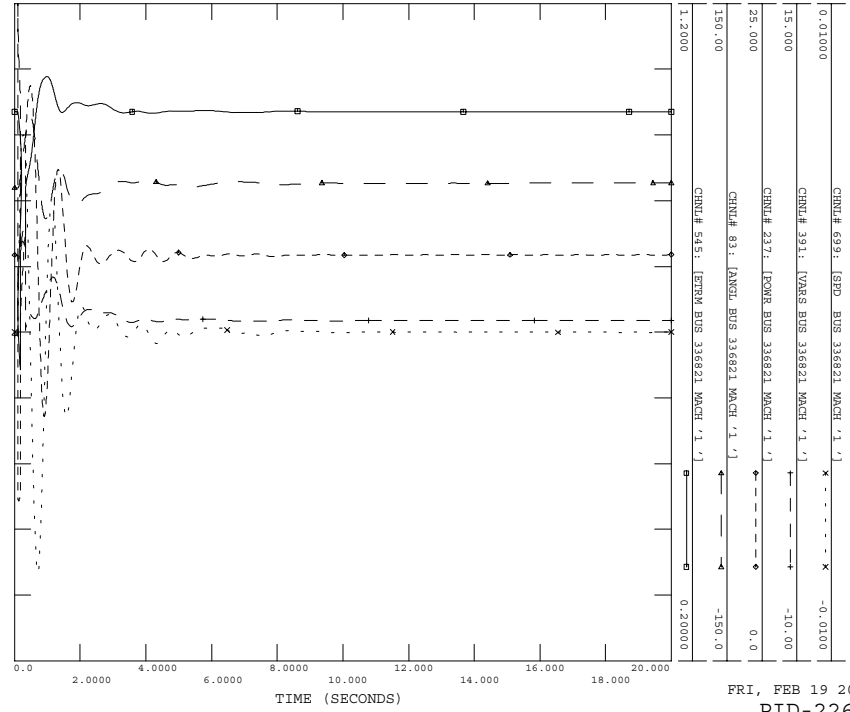
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 8FRKLIN AND 8R.BRAS TO 8LAKEOV
 FILE: FLT_6a.OUT



POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 8FRKLIN AND 8R.BRAS TO 8LAKEOV
 FILE: FLT_6a.OUT



POST-PID226 CASE
 3PH STOCK FLT AT BR.BRAS 500VY BUS 336839
 IKLF BR.BRAS TO STRLIN AND BR.BRAS TO SLAKEOV
 FILE: FLI_68.001

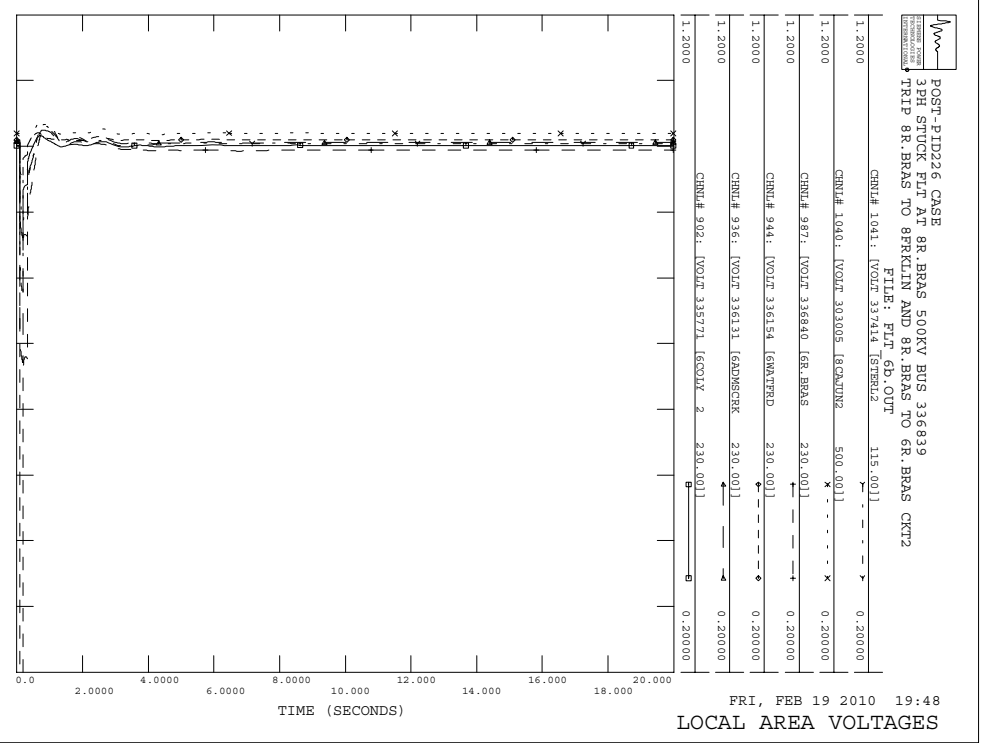
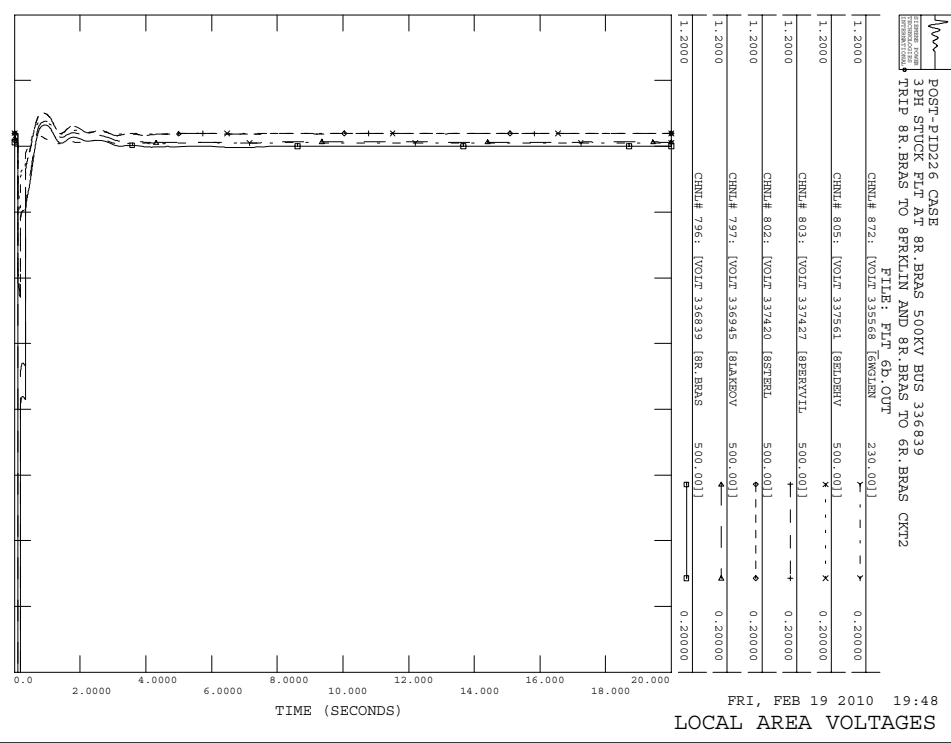
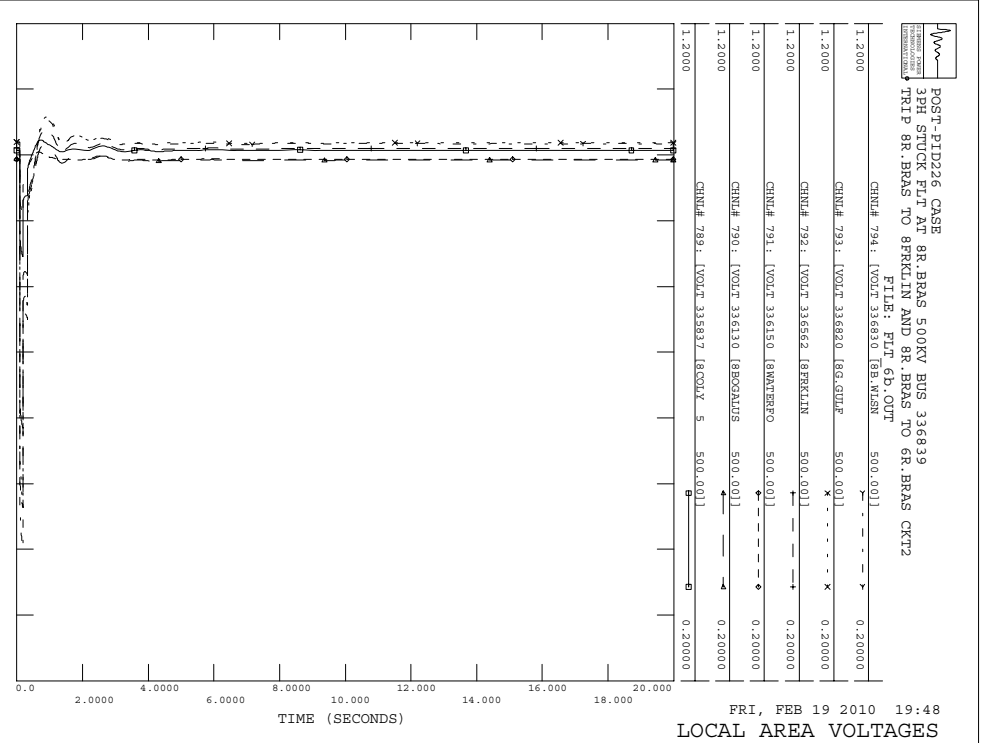
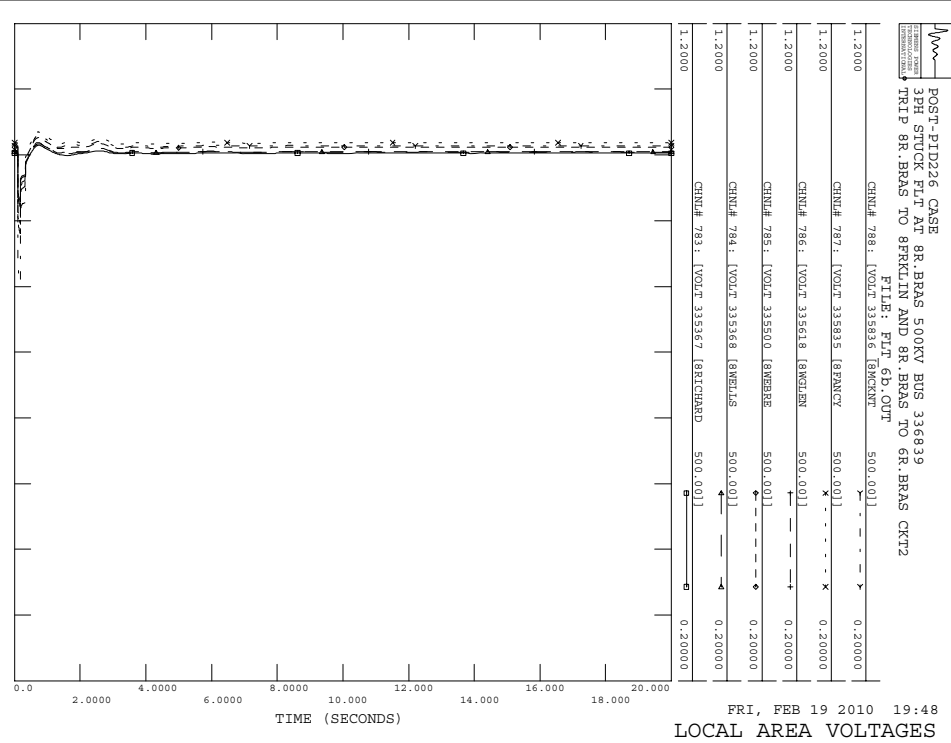


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 PID-226 PLOTS

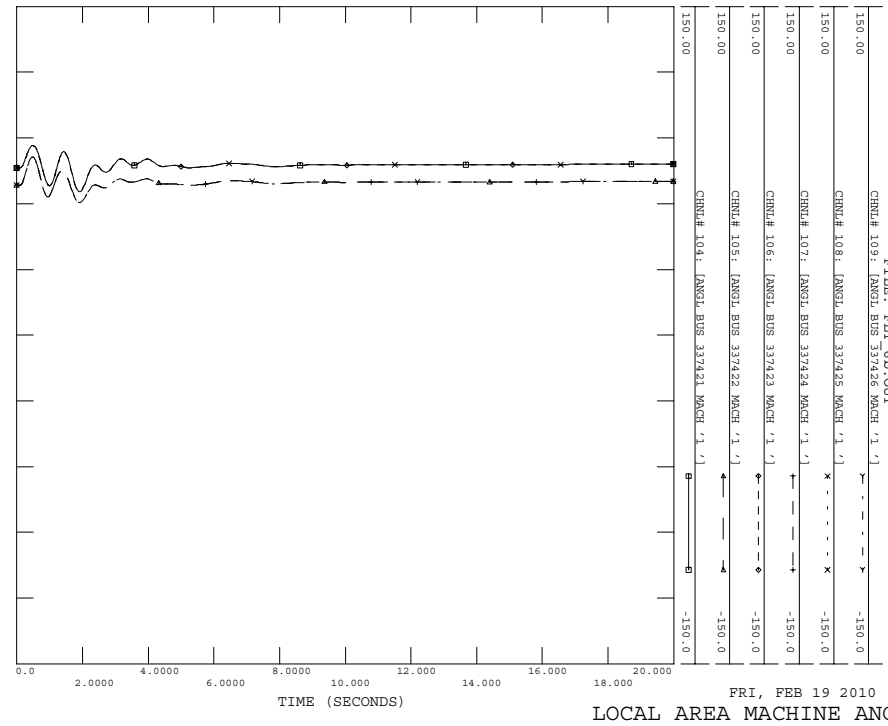
C.2 FLT_6b

Stuck breaker fault on the 8R.BRAS (#336839) to 8FRKLIN (#336562) 500 kV line, near the 8R.BRAS.

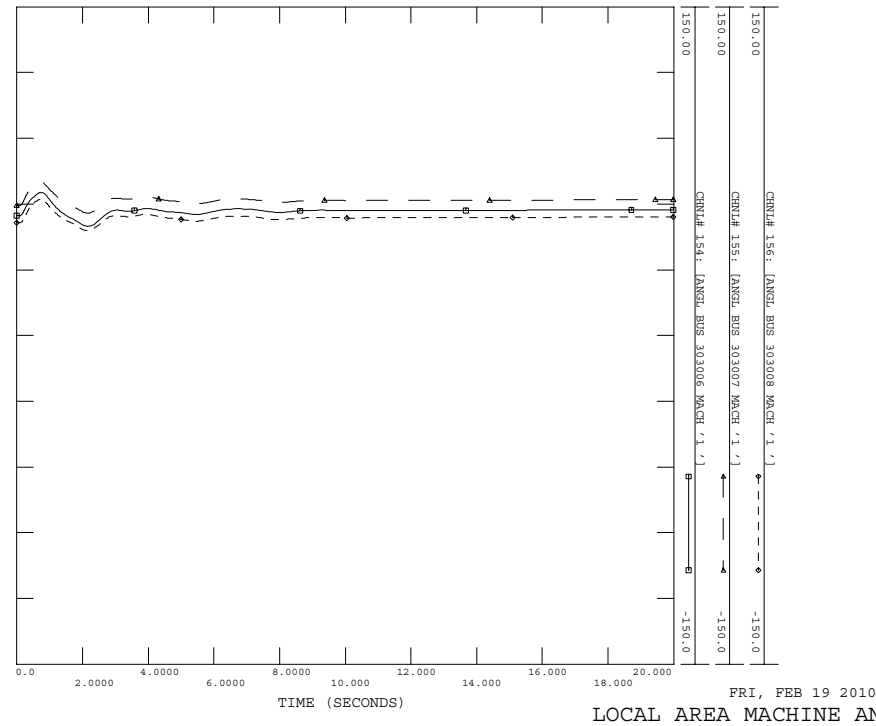
- a) Apply 3 Phase Fault AT 8R.BRAS 500KV BUS 336839
- b) Run fault for 5 cycles.
- c) Remove Fault AT 8R.BRAS 500KV BUS 336839
- d) Apply 3 Phase fault at #336839 with admittance $765.3 -j 6686.74$ MVA
- e) Clear fault after 9 cycles by tripping lines from Ray Braswell - Franklin 500 Kv; Ray Braswell 500/230 kV transformer #2



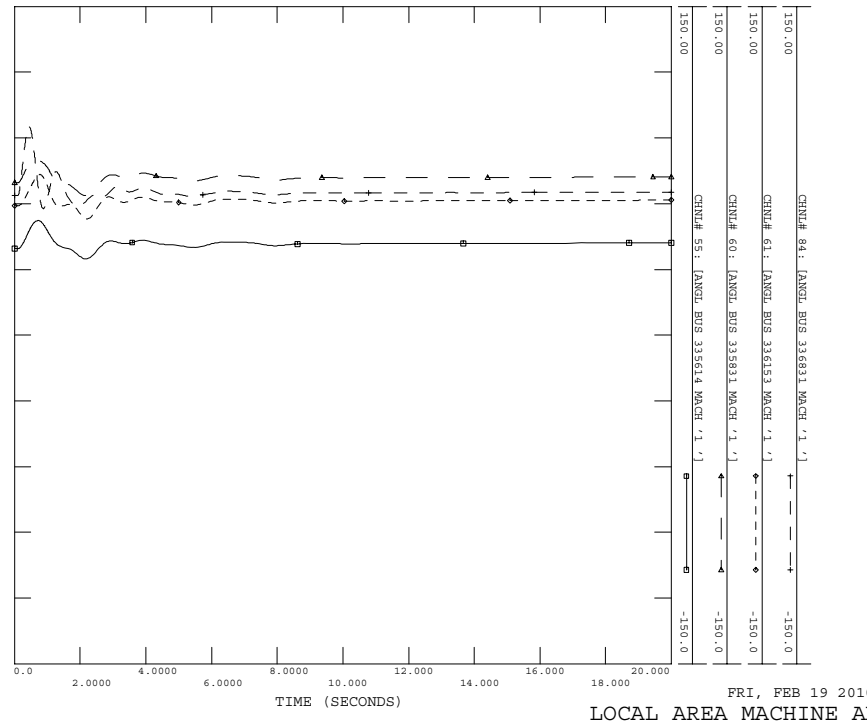
POST-PID226 CASE
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 TRIP 8R.BRAS TO 8FRKLIN AND 8R.BRAS TO 6R.BRAS CKT2
 FILE: FLT_65.OUT



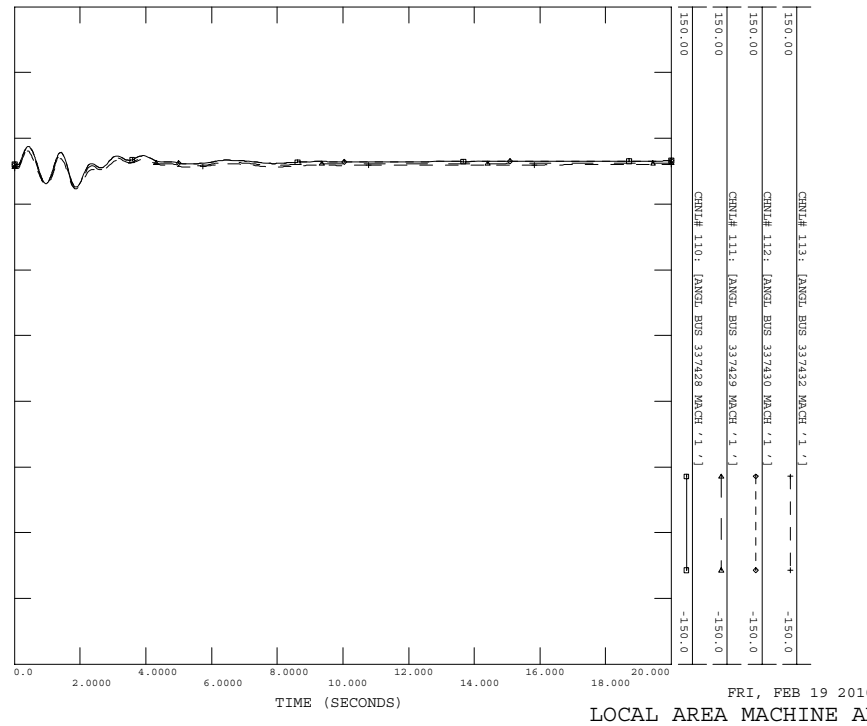
POST-PID226 CASE
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 TRIP 8R.BRAS TO 8FRKLIN AND 8R.BRAS TO 6R.BRAS CKT2
 FILE: FLT_65.OUT



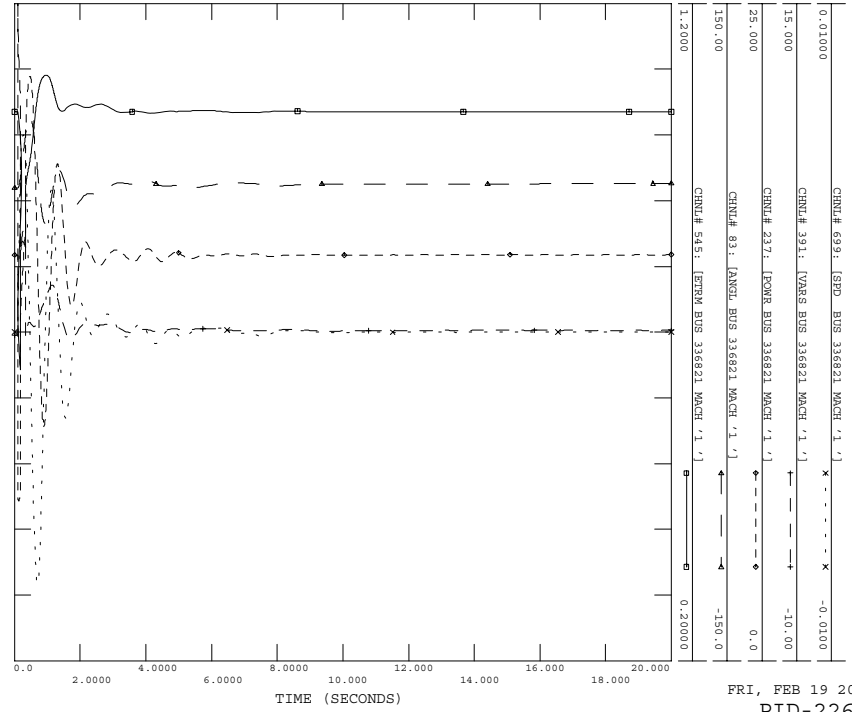
POST-PID226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 8FRKLIN AND 8R.BRAS TO 6R.BRAS CKT2
 FILE: FLT_65.OUT



POST-PID226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 8FRKLIN AND 8R.BRAS TO 6R.BRAS CKT2
 FILE: FLT_65.OUT



POST-PID226 CASE
 3PH STOCK FLT AT 3R.BRAS 500KV BUS 336839
 3PH STOCK FLT AT 3R.BRAS TO 3R.BRAS TO 3R.BRAS CKT2
 FILE: FLI_69.001

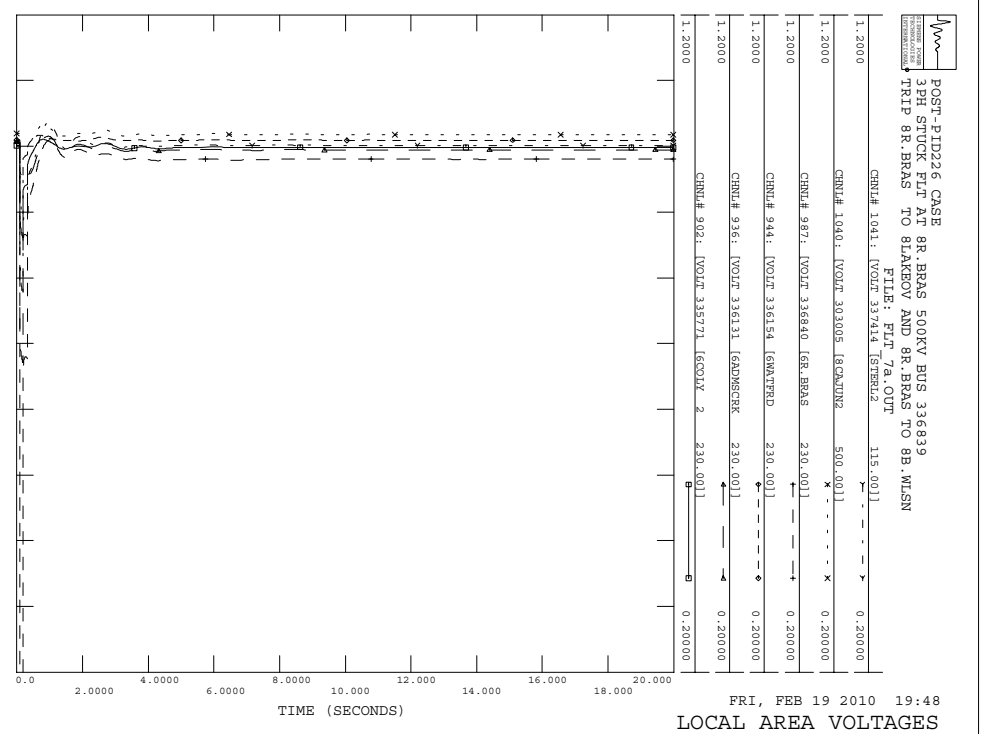
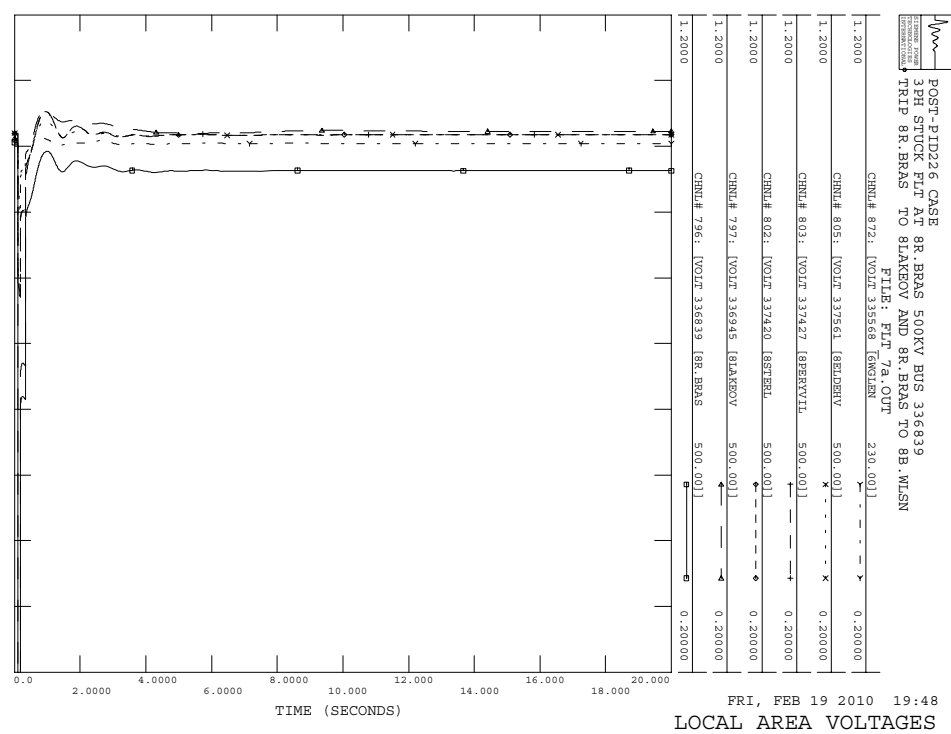
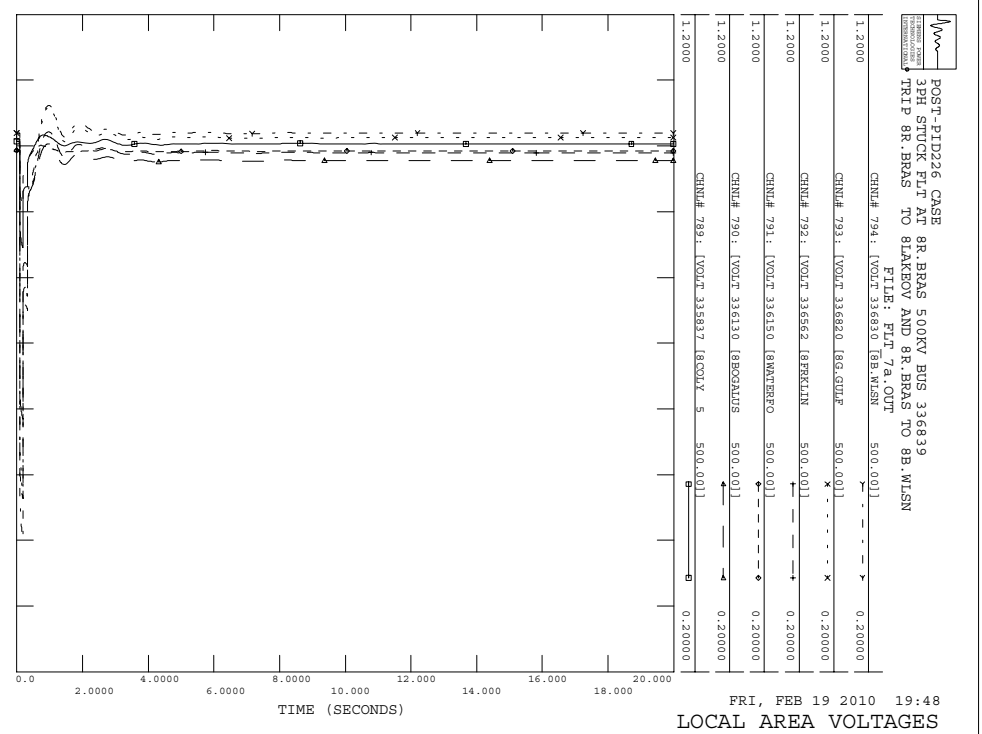
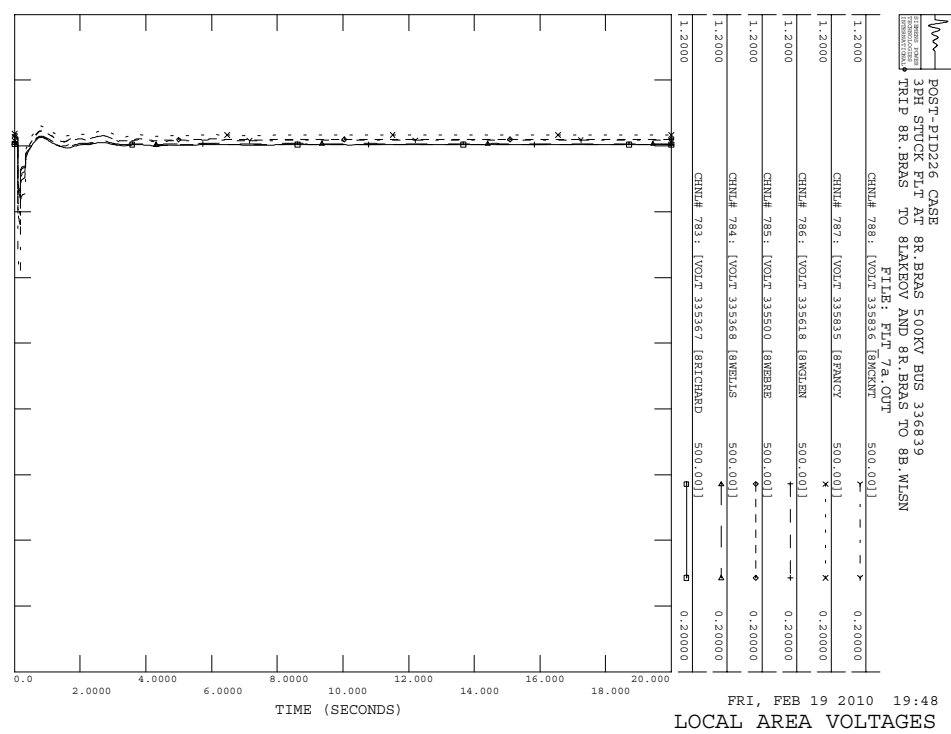


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 PID-226 PLOTS

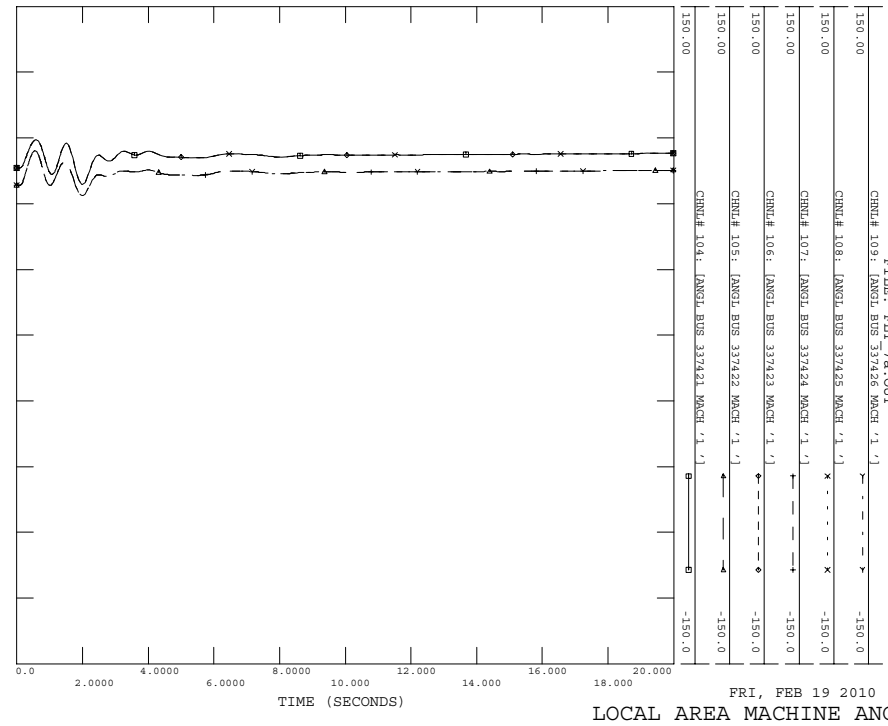
C.3 FLT_7a

Stuck breaker fault on the 8R.BRAS (#336839) to 8LAKEOV (#336945) 500 kV line, near the 8R.BRAS.

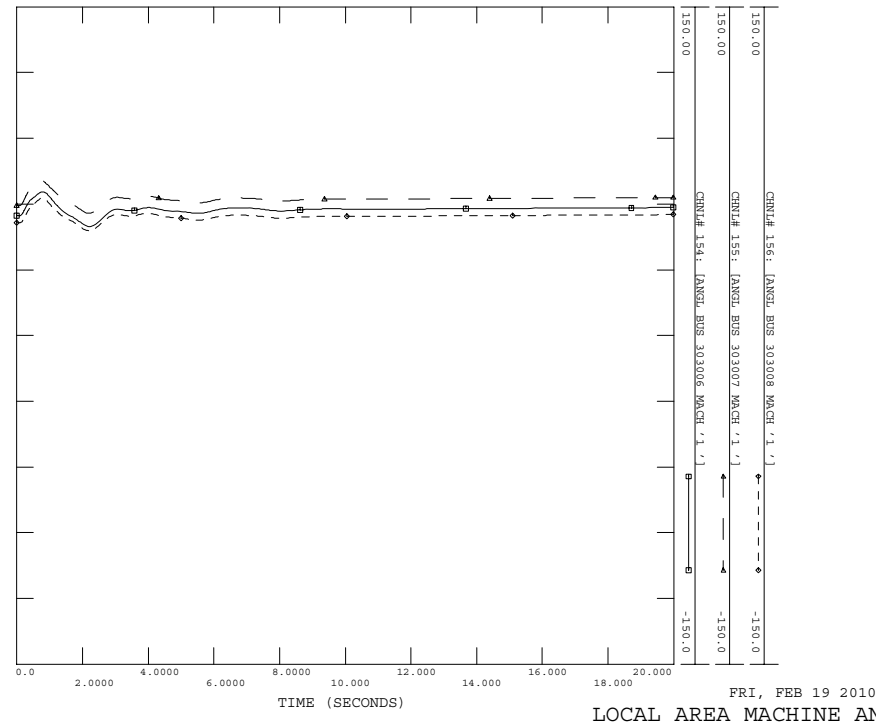
- a) Apply 3 Phase Fault AT 8R.BRAS 500KV BUS 336839
- b) Run fault for 5 cycles.
- c) Remove Fault AT 8R.BRAS 500KV BUS 336839
- d) Apply 3 Phase fault at #336839 with admittance $765.3 -j 6686.74$ MVA
- e) Clear fault after 9 cycles by tripping Ray Braswell - Lakeover 500 kV;
Ray Braswell - B. Wilson 500 kV



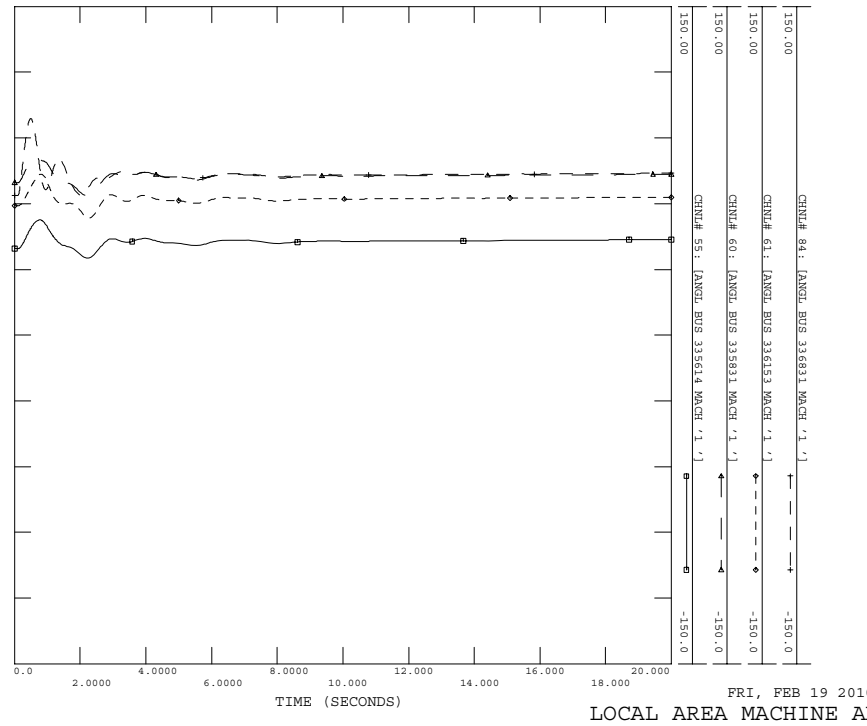
POST-PTD226 CASE
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 TRIP 8R.BRAS
 FILE: FLT_7A.OUT



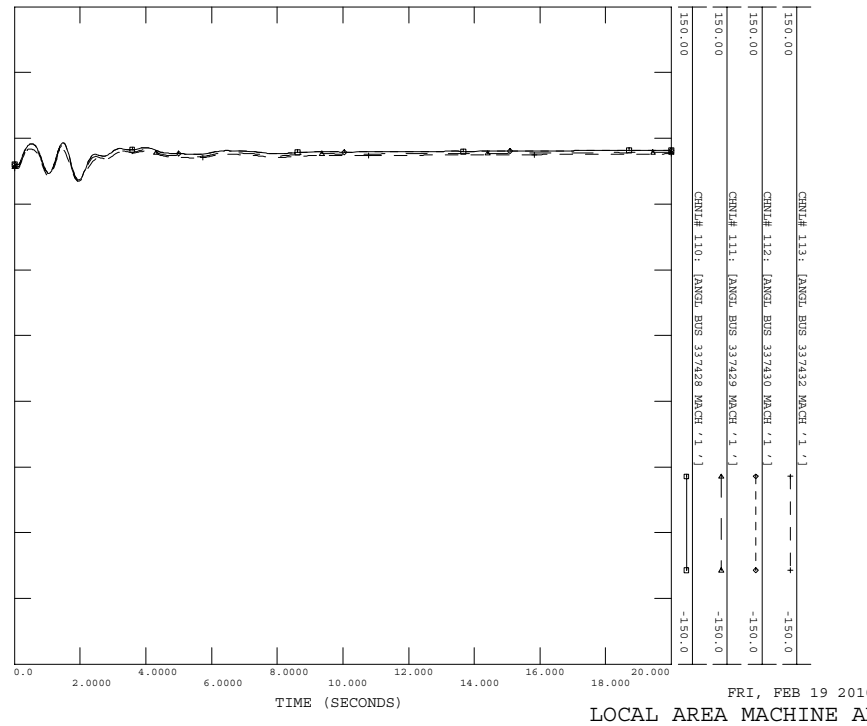
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_7A.OUT




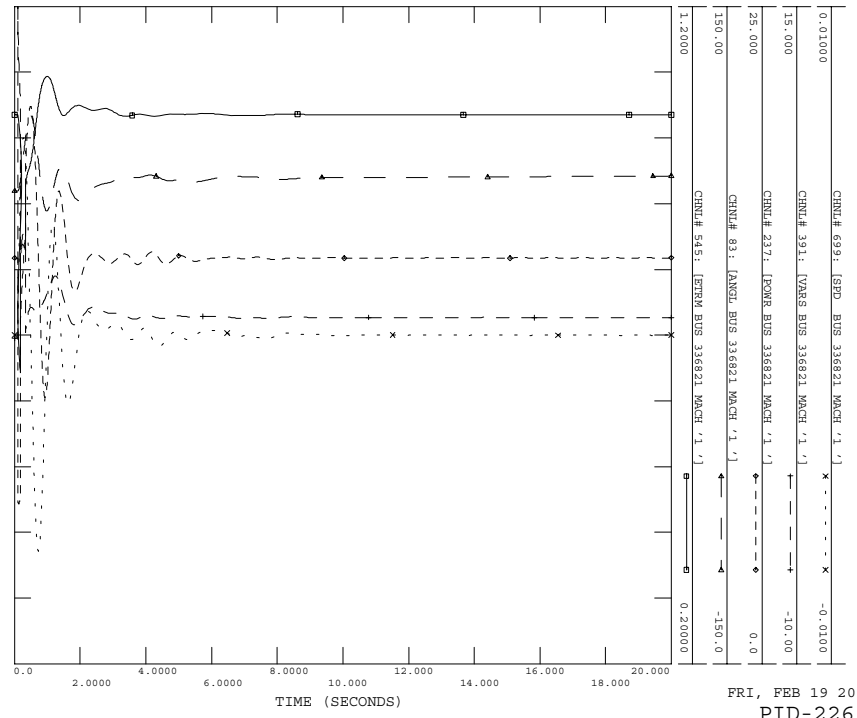
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO SLAKBOV AND 8R.BRAS TO 8B.WLSN
 FILE: FLT_7A.OUT



POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO SLAKBOV AND 8R.BRAS TO 8B.WLSN
 FILE: FLT_7A.OUT




 POST-PID226 CASE
 3PH STOCK PLOT AT 8R.BBAS 500KV BUS 336839
 IKLF 8R.BBAS TO SANKOVY AND 8R.BBAS TO 8B.WLSN
 FILE: PFI_7A.001

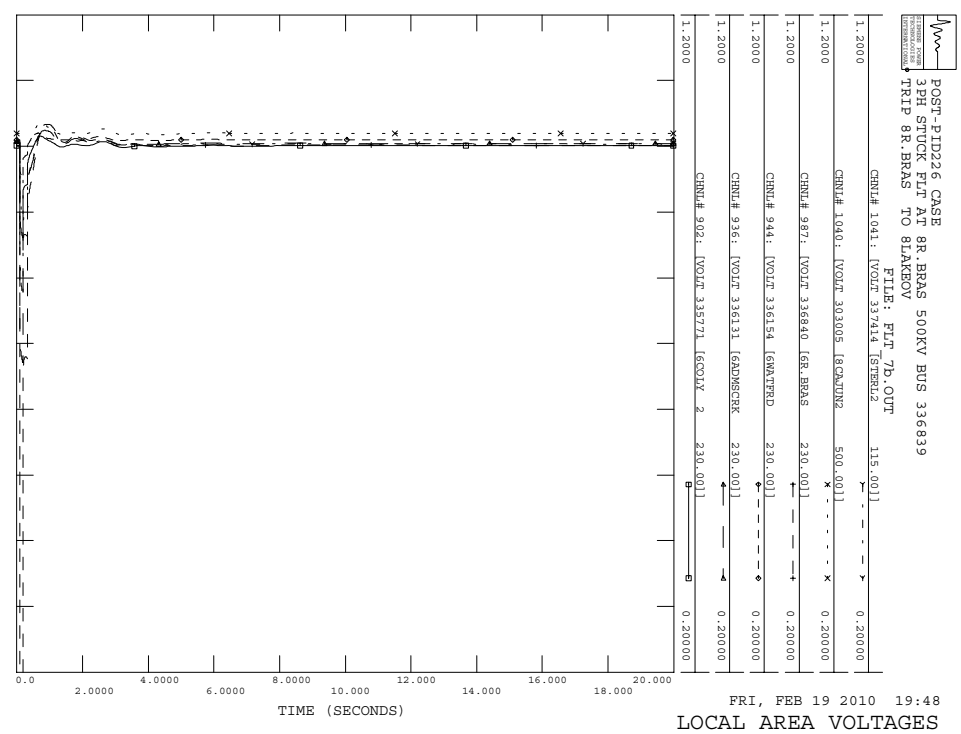
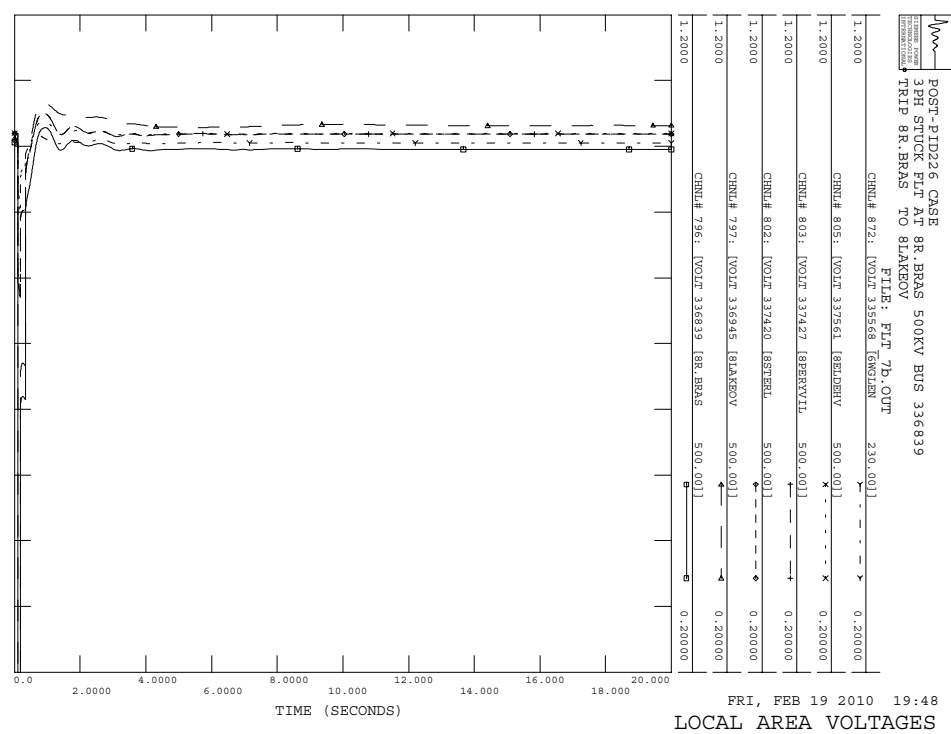
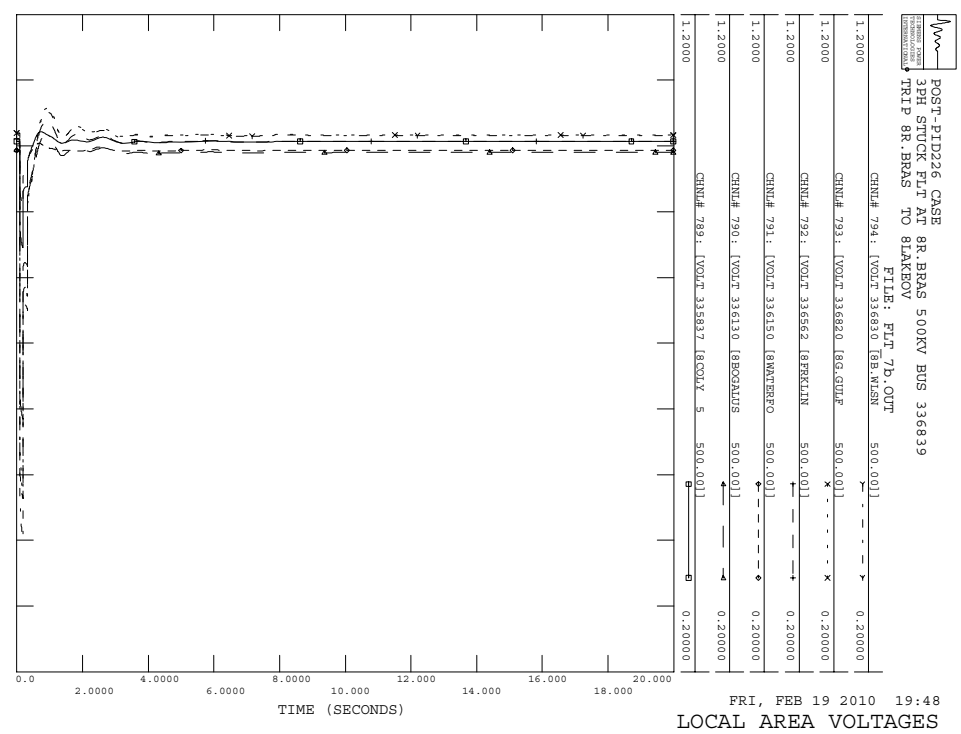
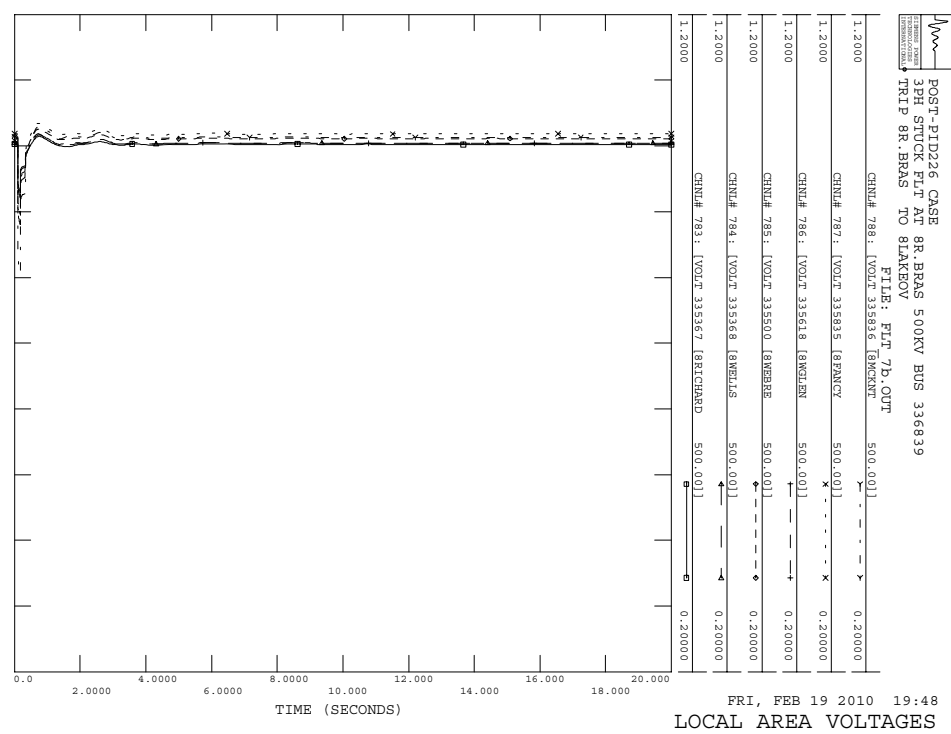


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 PID-226 PLOTS

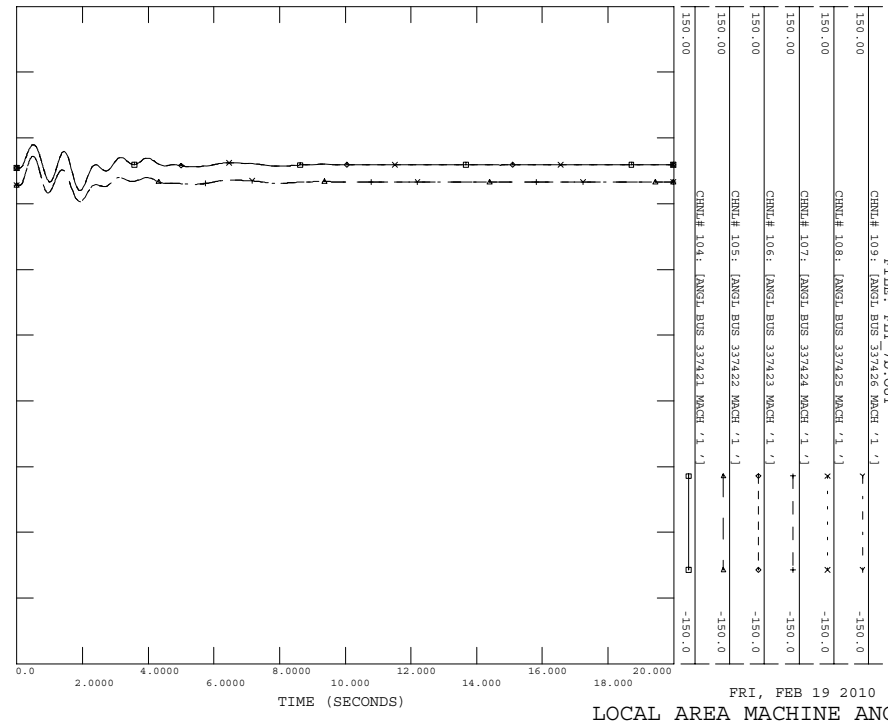
C.4 FLT_7b

Stuck breaker fault on the 8R.BRAS (#336839) to 8LAKEOV (#336945) 500 kV line, near the 8R.BRAS.

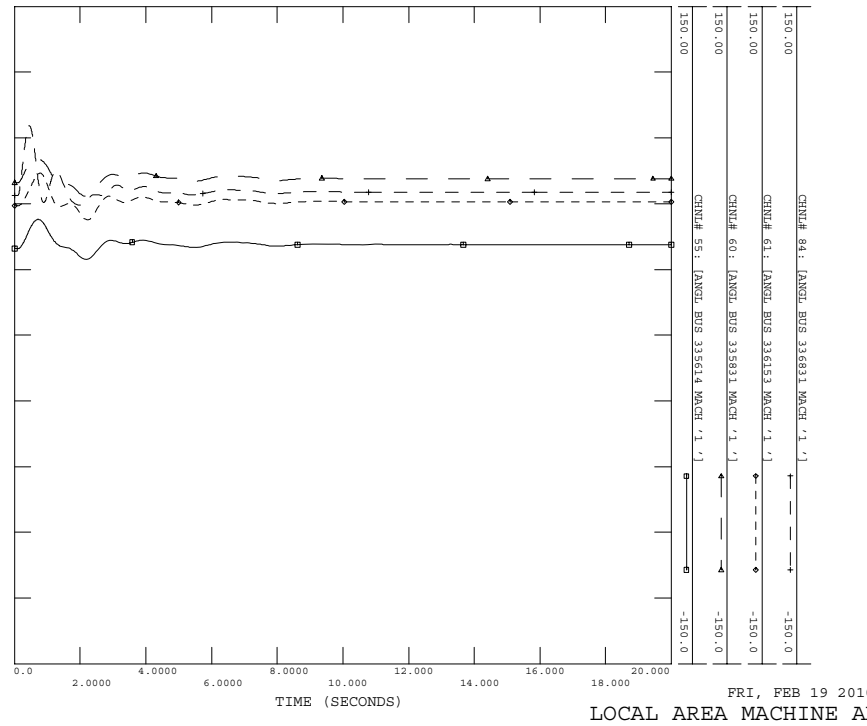
- a) Apply 3 Phase Fault AT 8R.BRAS 500KV BUS 336839
- b) Run fault for 5 cycles.
- c) Remove Fault AT 8R.BRAS 500KV BUS 336839
- d) Apply 3 Phase fault at #336839 with admittance $765.3 -j 6686.74$ MVA
- e) Clear fault after 9 cycles by tripping Ray Braswell - Lakeover 500 kV



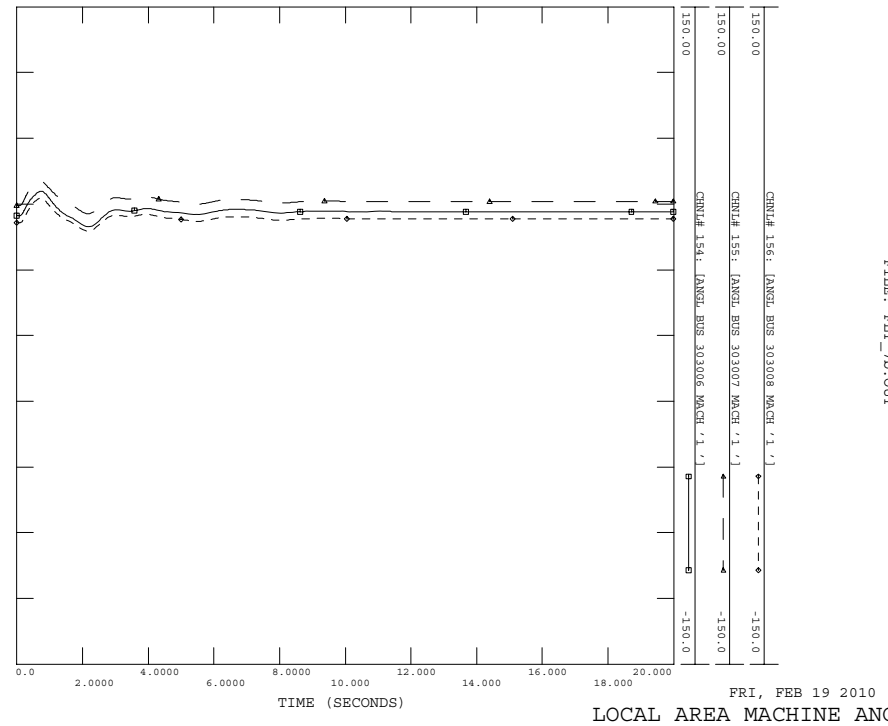
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO SLAKROY
 FILE: FLT_7b.OUT



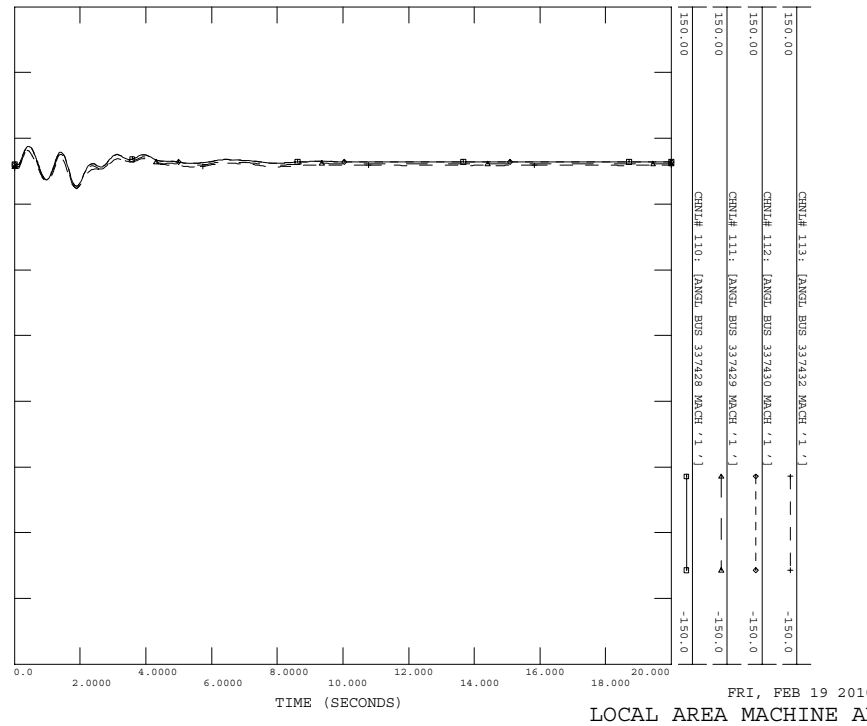
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO SLAKROY
 FILE: FLT_7b.OUT



POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO SLAKROY
 FILE: FLT_7b.OUT

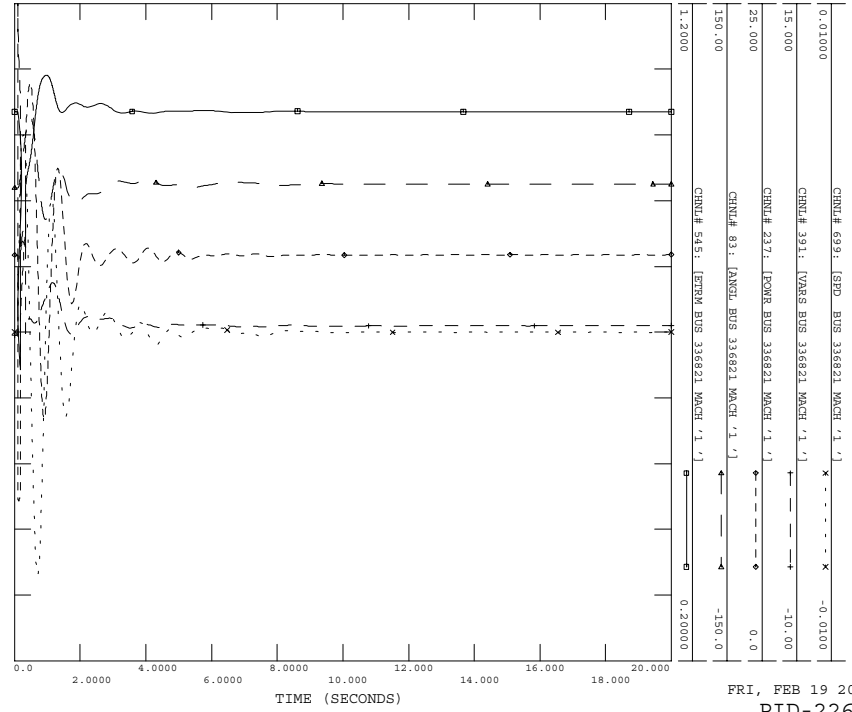


POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO SLAKROY
 FILE: FLT_7b.OUT





POST-PID226 CASE
3PH STOCK FLT AT 8R.BRAS 500KV BUS 336839
IKLF 8R.BRAS TO SHAKROY
FILE: FLT_7B.OUT

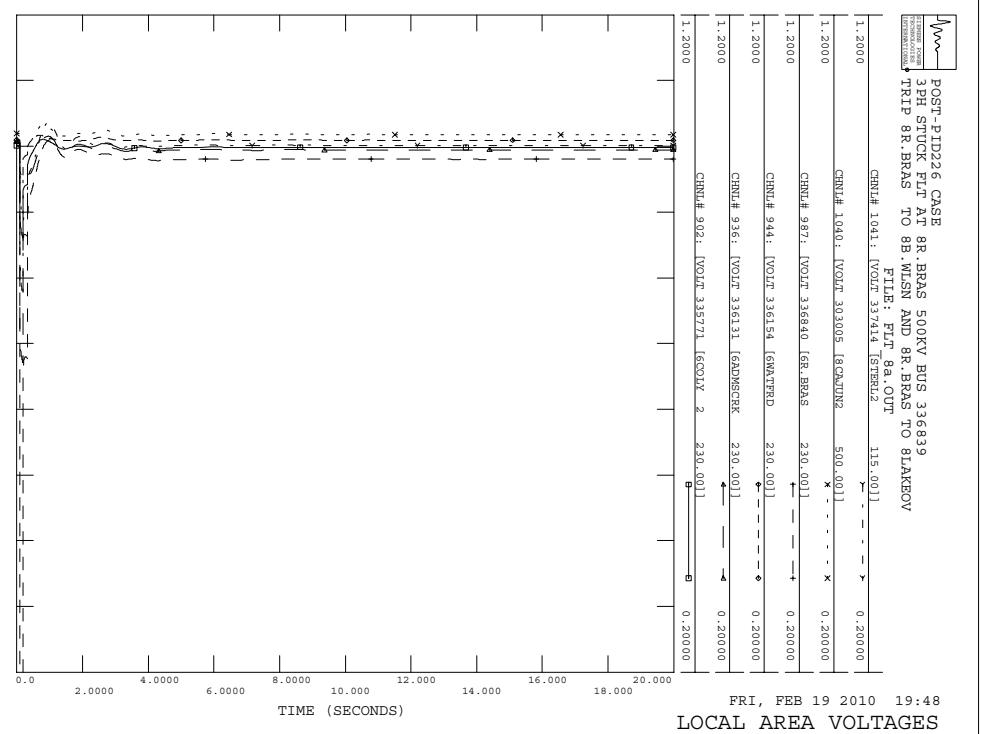
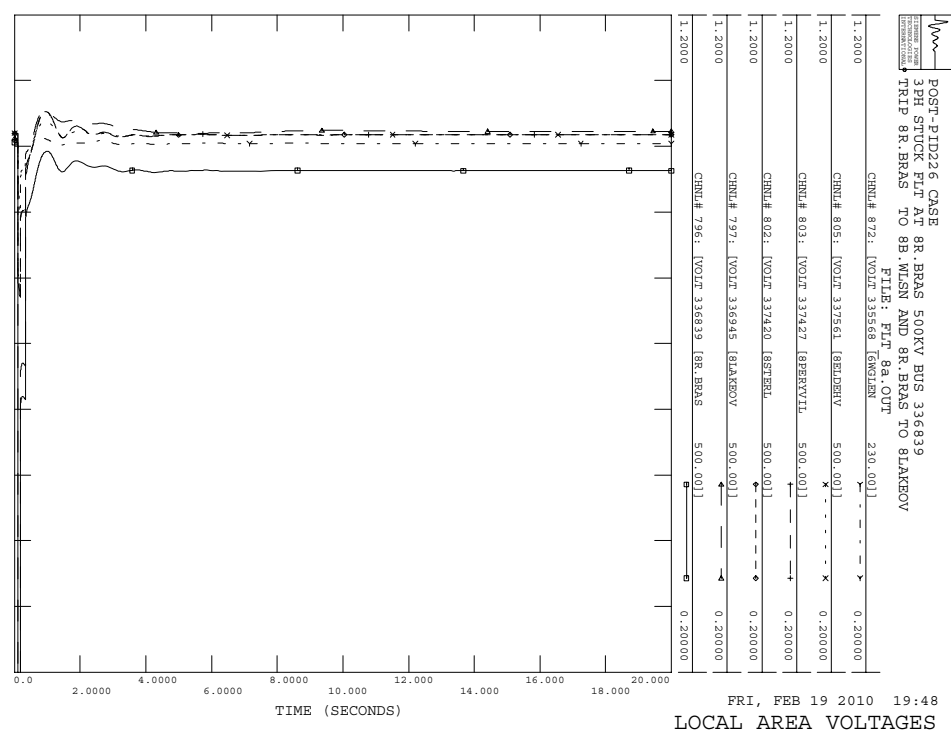
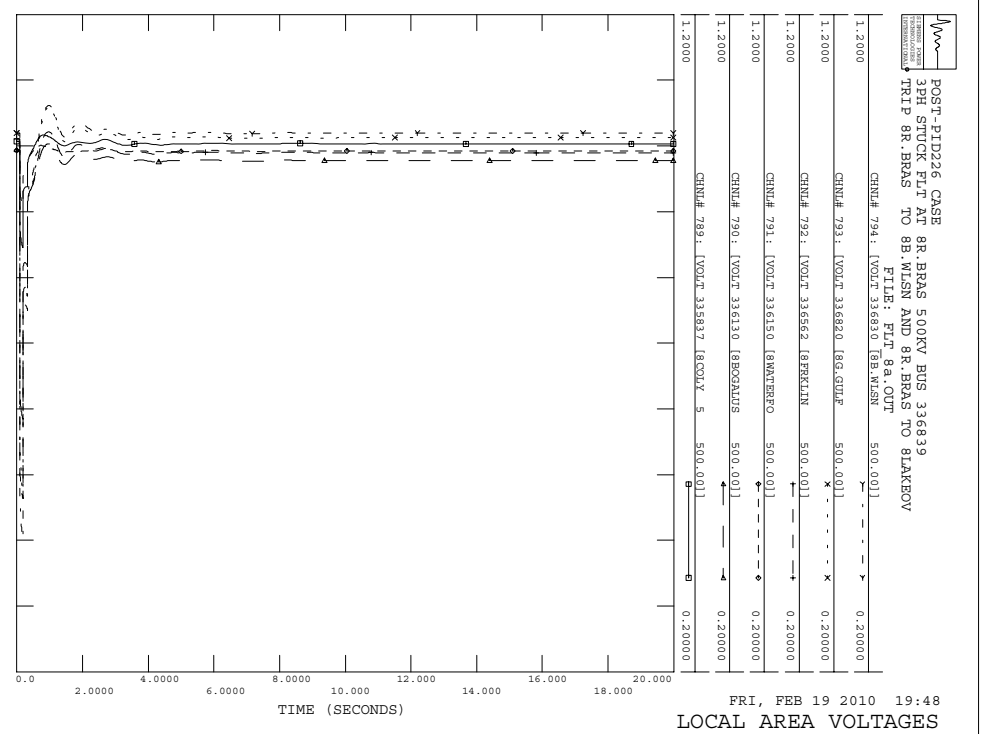
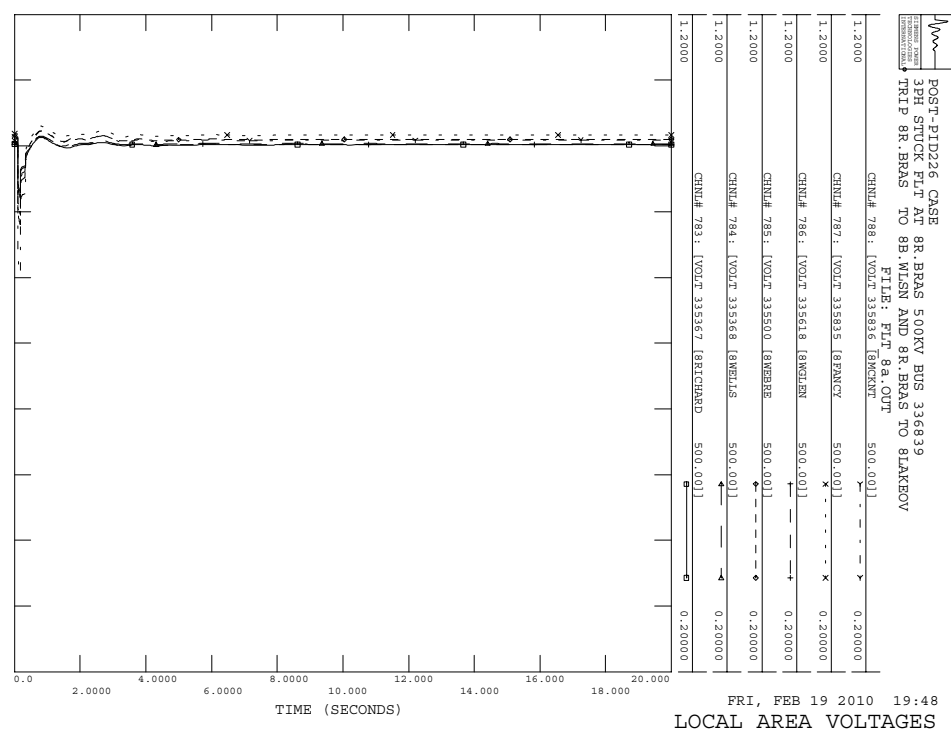


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PID-226 PLOTS

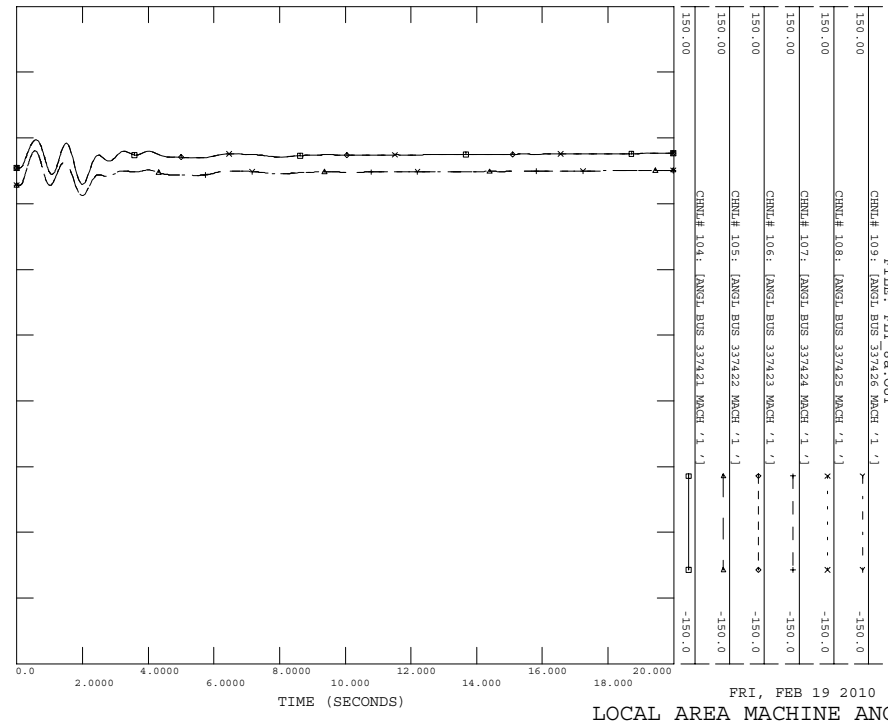
C.5 FLT_8a

Stuck breaker fault on the 8R.BRAS (#336839) to 8B.WLSN (#336830) 500 kV line, near the 8R.BRAS.

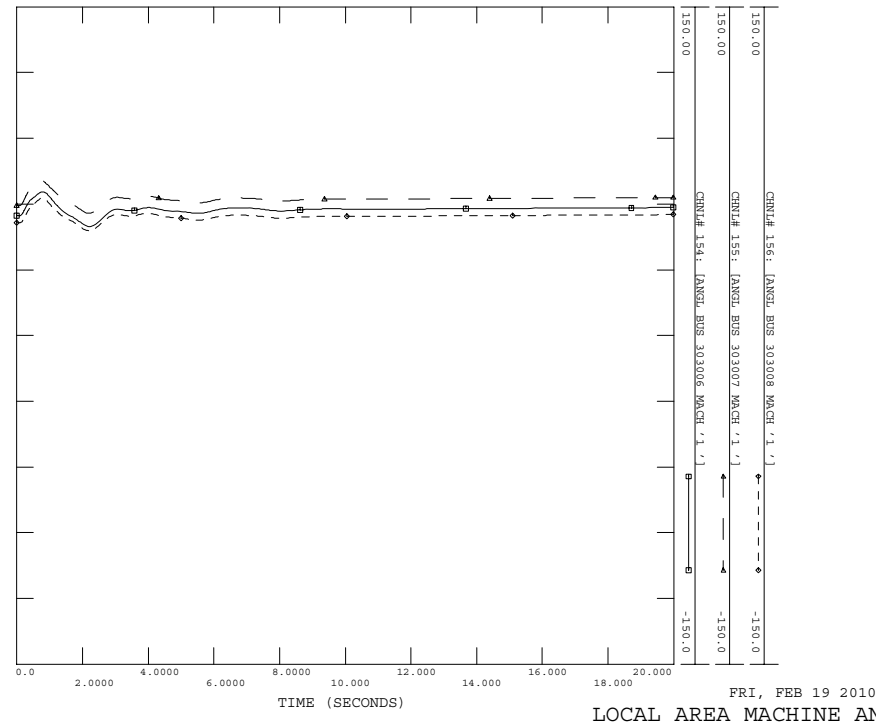
- a) Apply 3 Phase Fault AT 8R.BRAS 500KV BUS 336839
- b) Run fault for 5 cycles
- c) Remove Fault AT 8R.BRAS 500KV BUS 336839
- d) Apply 3 Phase fault at #336839 with admittance $765.3 -j 6686.74$ MVA
- e) Clear fault after 9 cycles by tripping Ray Braswell - B. Wilson 500 kV;
Ray Braaswell - Lakeover 500 kV.



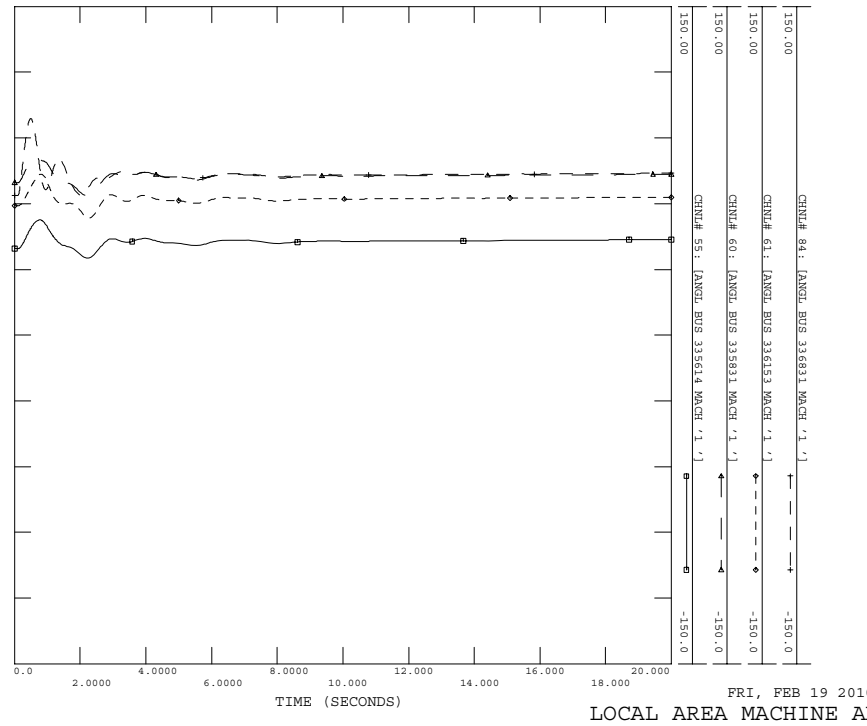
POST-PTD226 CASE
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 TRIP 8R.BRAS TO 8B.WLSN AND 8R.BRAS TO 8LAKBOV
 FILE: FLT_8a.OUT



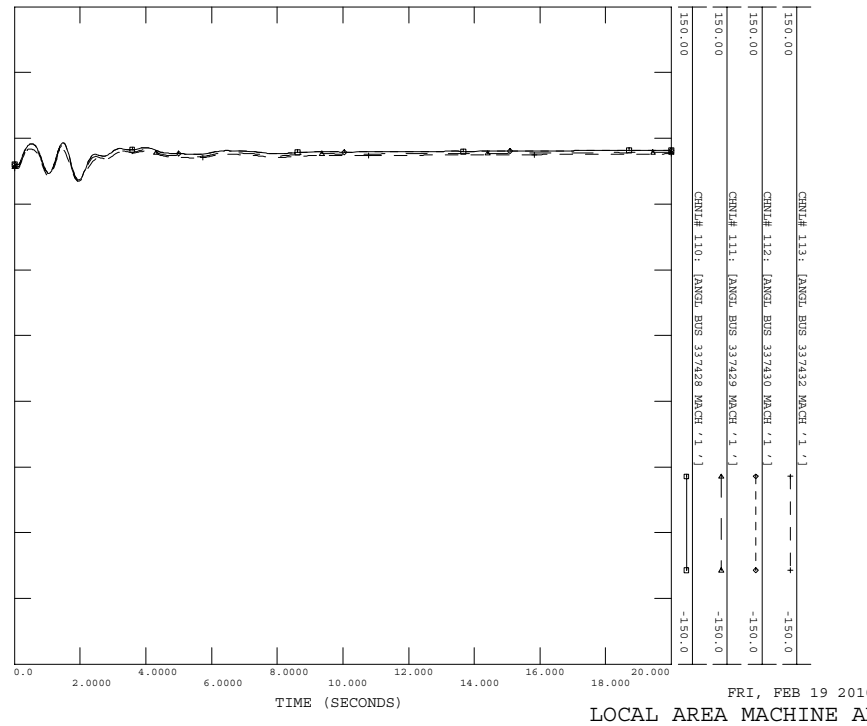
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 8B.WLSN AND 8R.BRAS TO 8LAKBOV
 FILE: FLT_8a.OUT



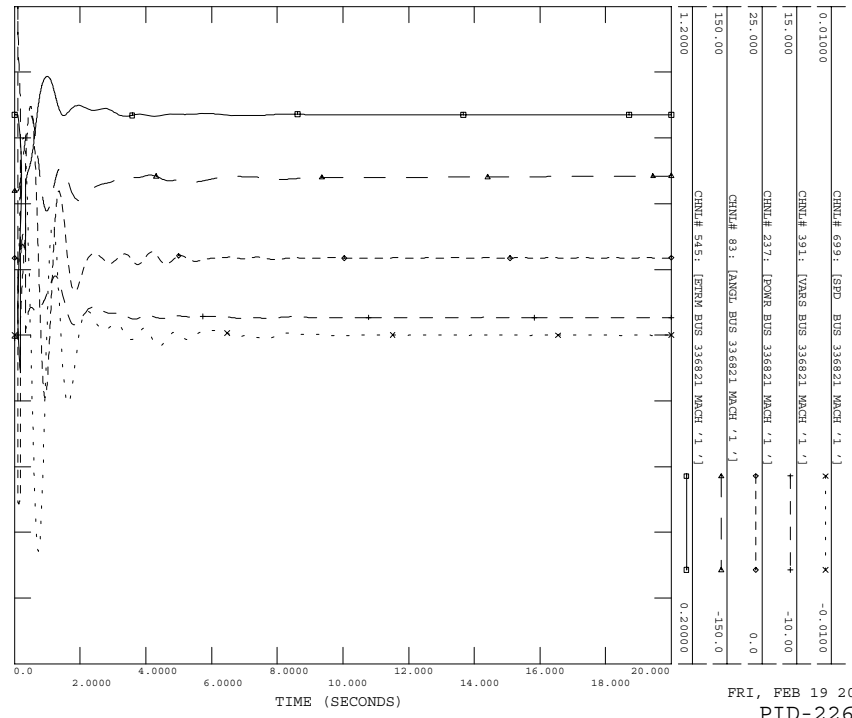
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 8B.WLSN AND 8R.BRAS TO 8LAKBOV
 FILE: FLT_8a.OUT



POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 8B.WLSN AND 8R.BRAS TO 8LAKBOV
 FILE: FLT_8a.OUT



POST-PID226 CASE
 3PH STOCK FLT AT 8R BRAS 500KV BUS 336839
 3PH STOCK FLT AT 8B WISSN AND 8R BRAS TO BLANKOV
 FILE: FLI_88.001

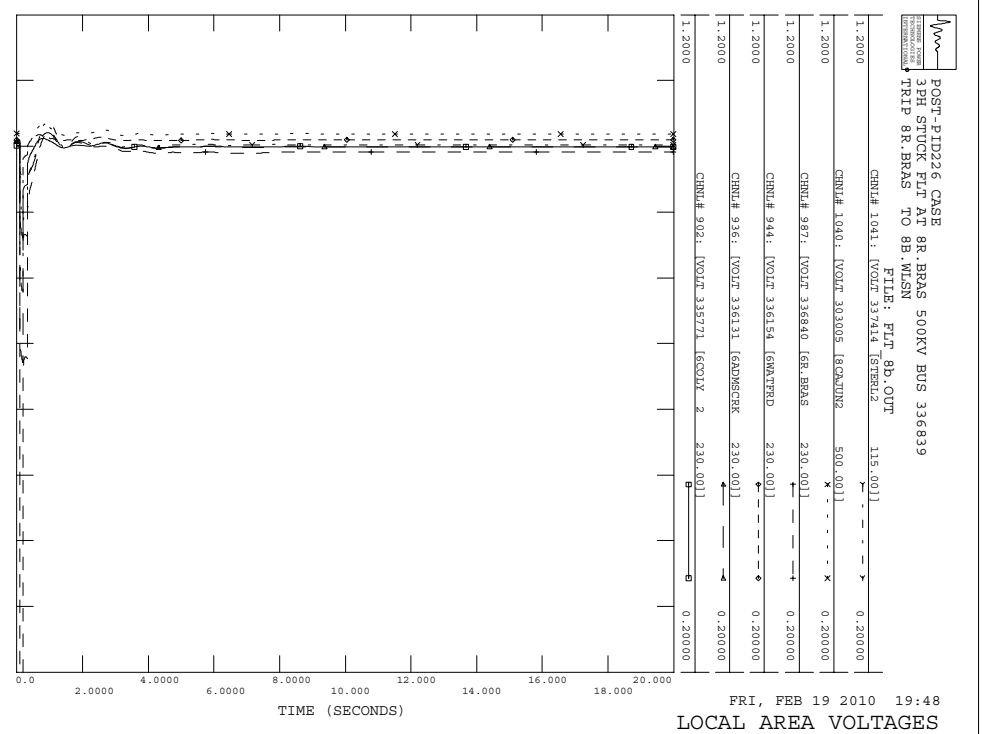
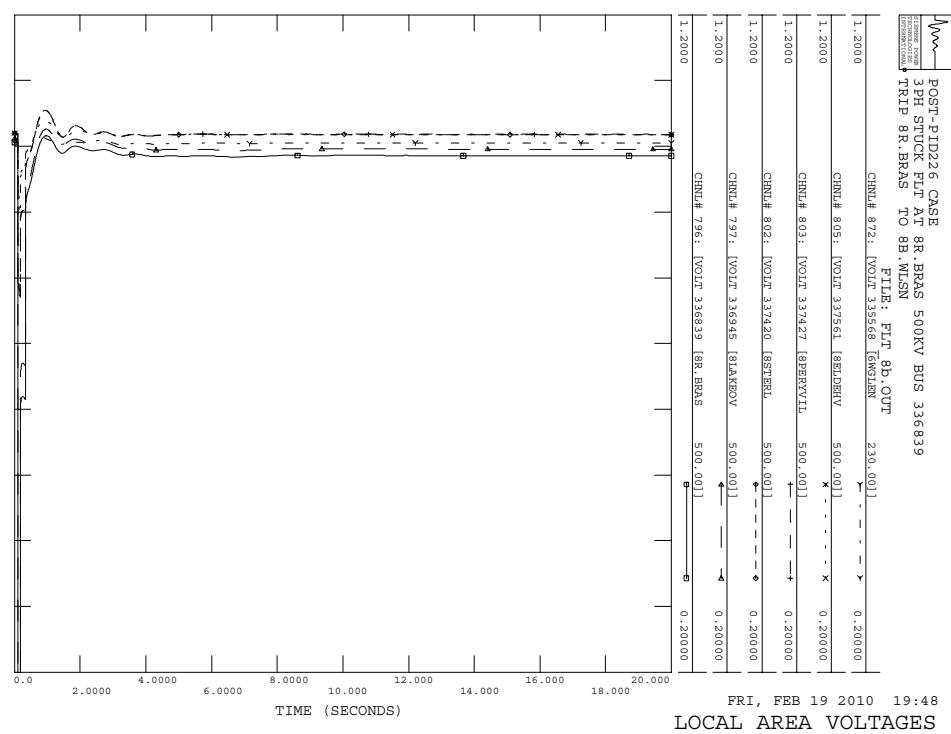
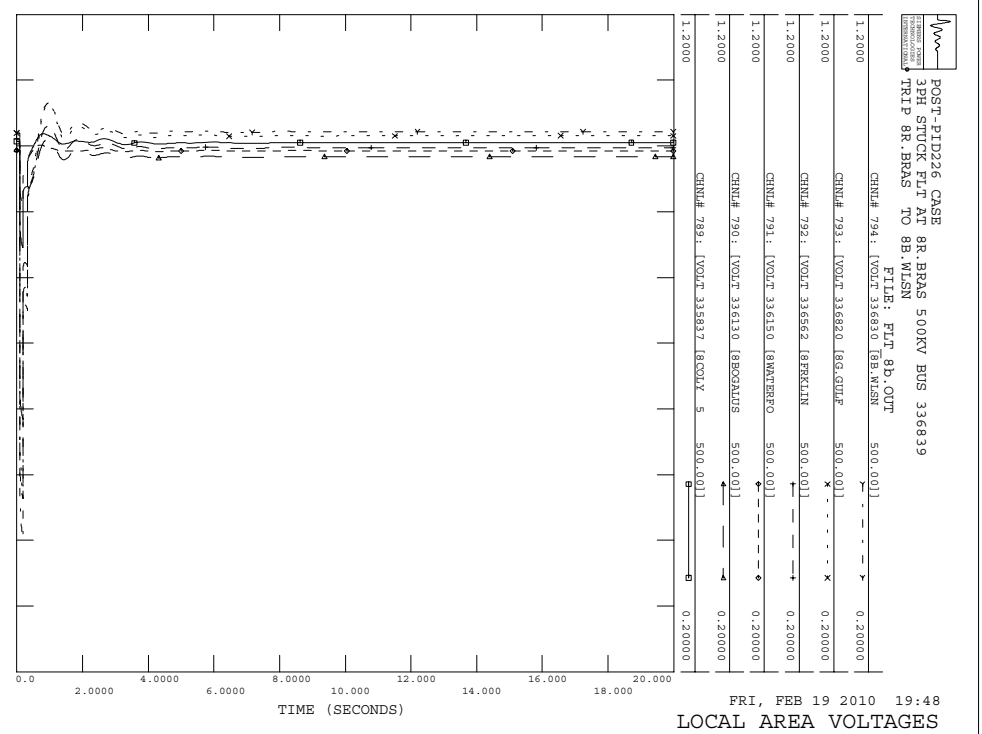
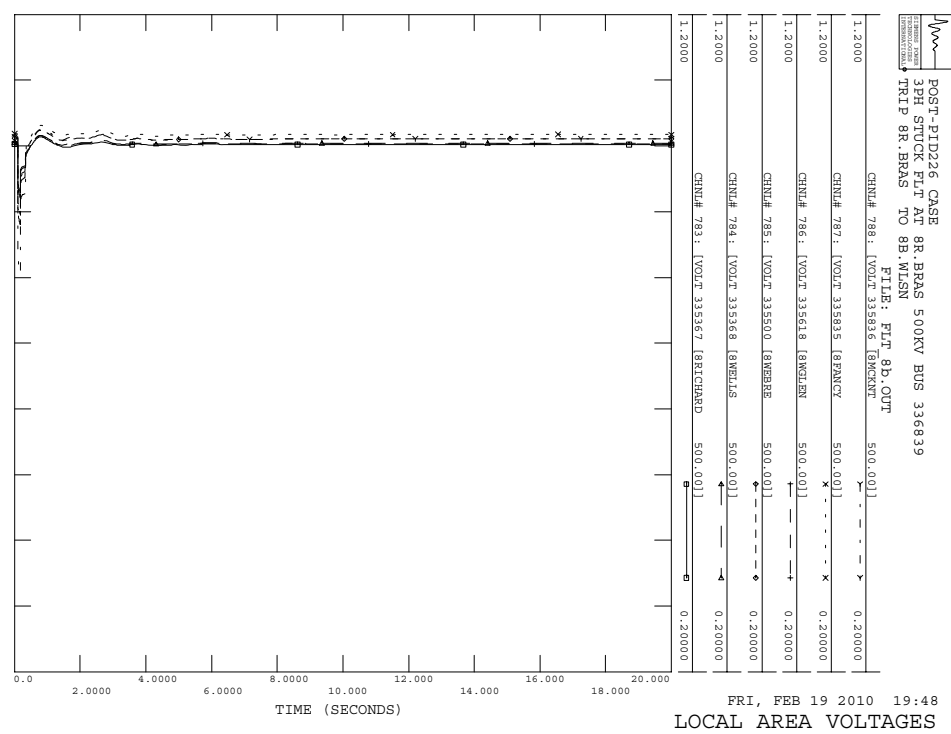


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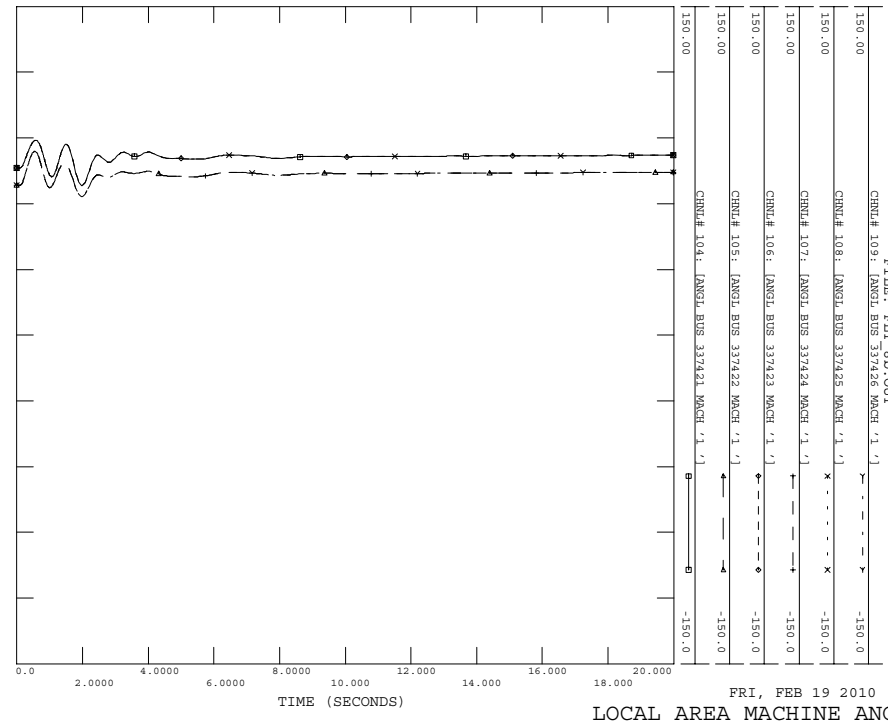
C.6 FLT_8b

Stuck breaker fault on the 8R.BRAS (#336839) to 8B.WLSN (#336830) 500 kV line, near the 8R.BRAS.

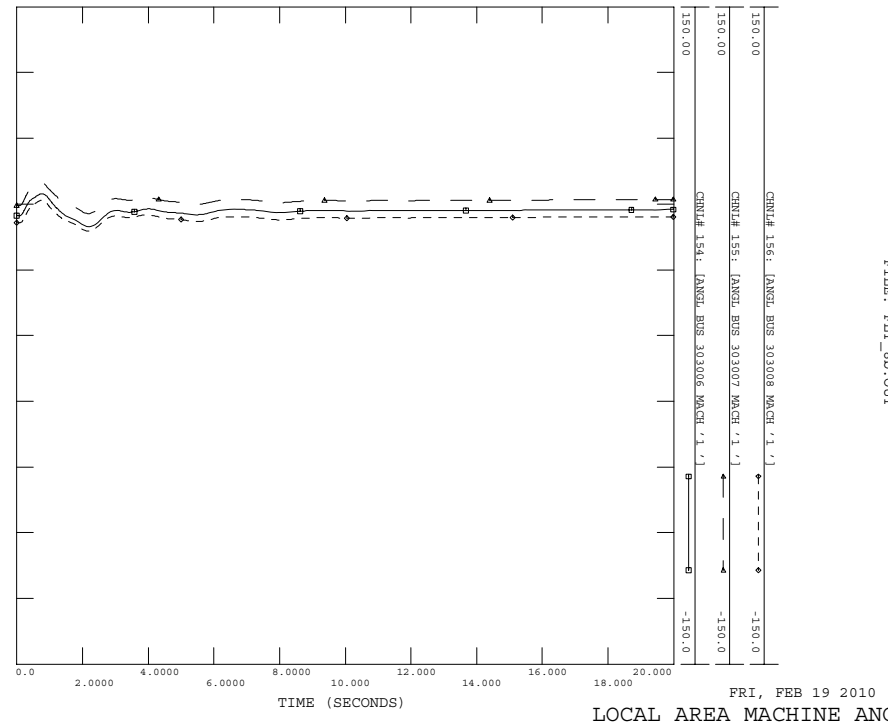
- a) Apply 3 Phase Fault AT 8R.BRAS 500KV BUS 336839
- b) Run fault for 5 cycles
- c) Remove Fault AT 8R.BRAS 500KV BUS 336839
- d) Apply 3 Phase fault at #336839 with admittance $765.3 -j 6686.74$ MVA
- e) Clear fault after 9 cycles by tripping line from Ray Braswell - B. Wilson 500 kV



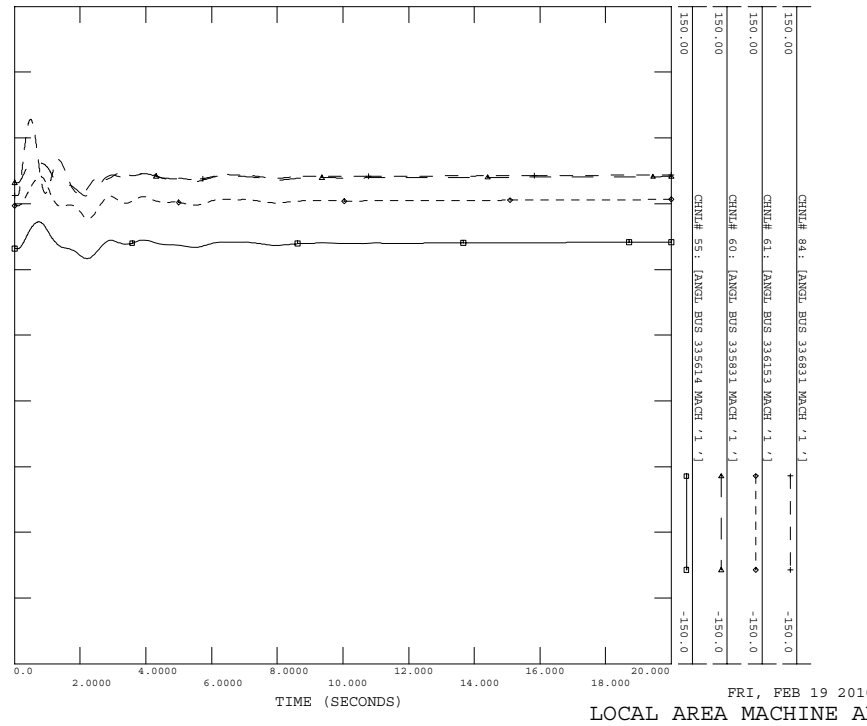
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_8P.OUT



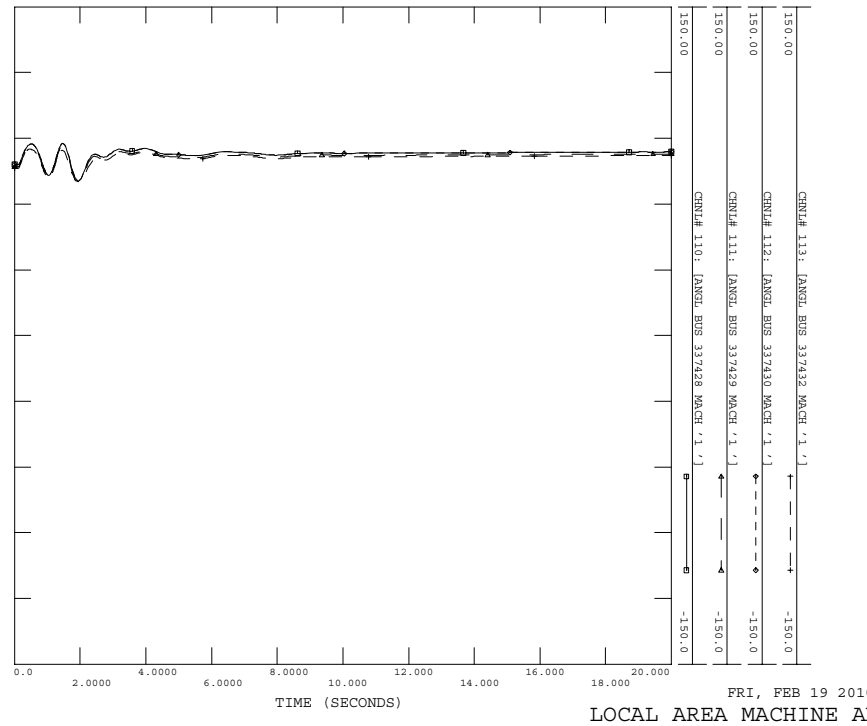
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_8P.OUT



POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_8P.OUT




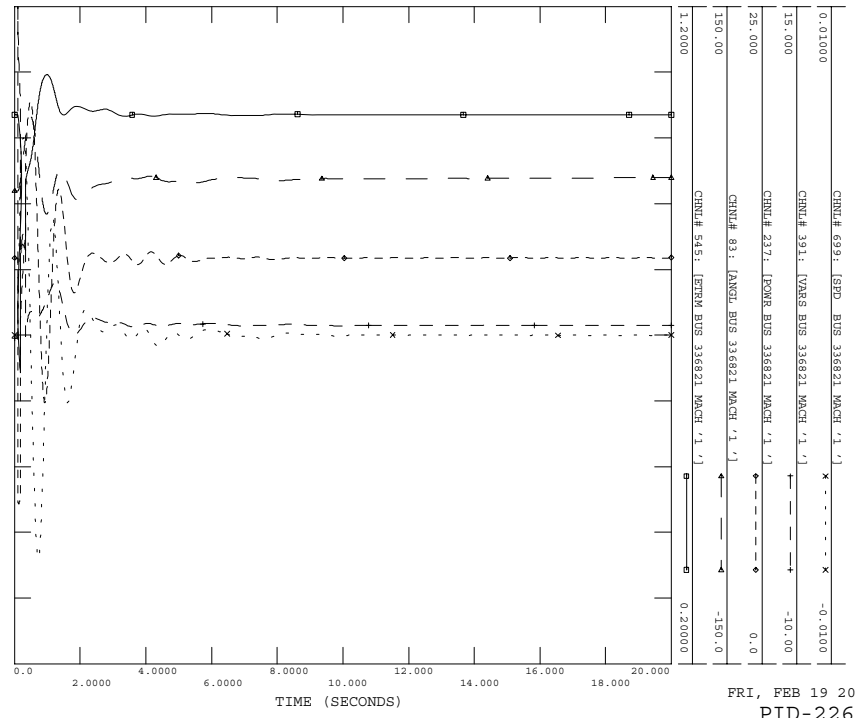
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_8P.OUT



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 POST-PID226 CASE
 3PH STOCK FLT AT 8B.BRAS 500KV BUS 336839
 3PH 8R.BRAS TO 8B.MLSN
 FILE: FLT_8B.OUT

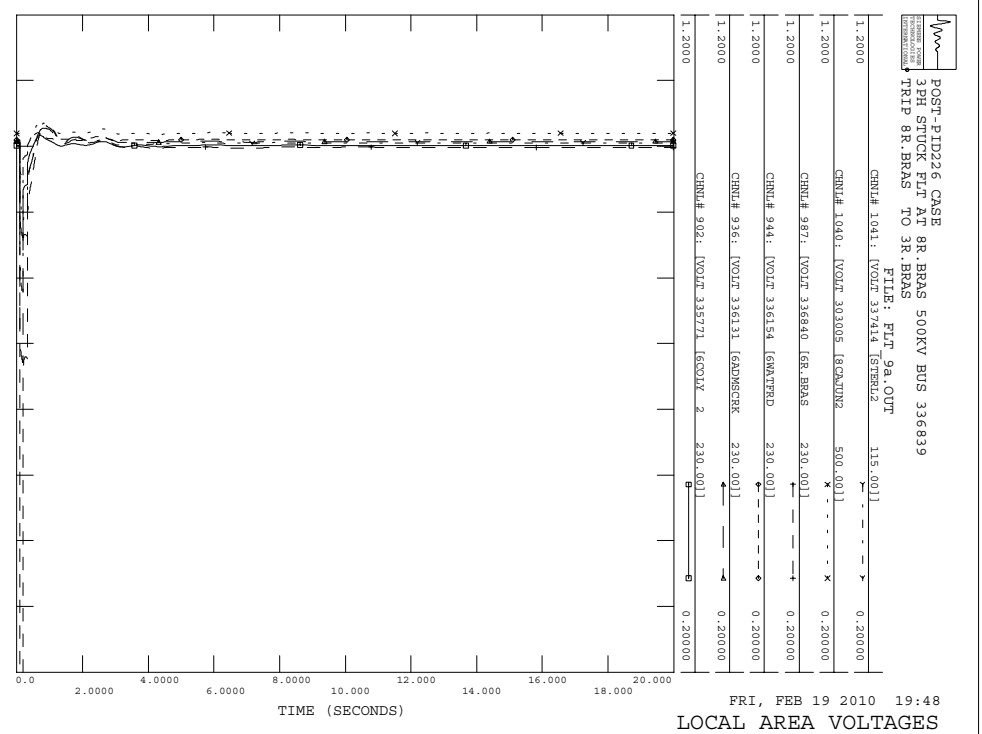
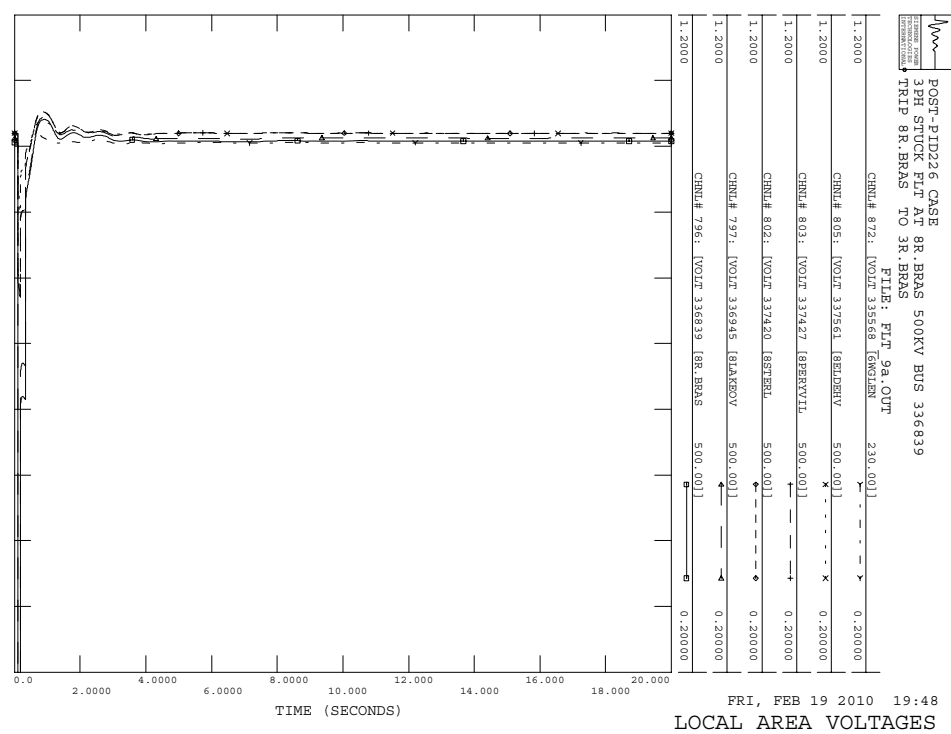
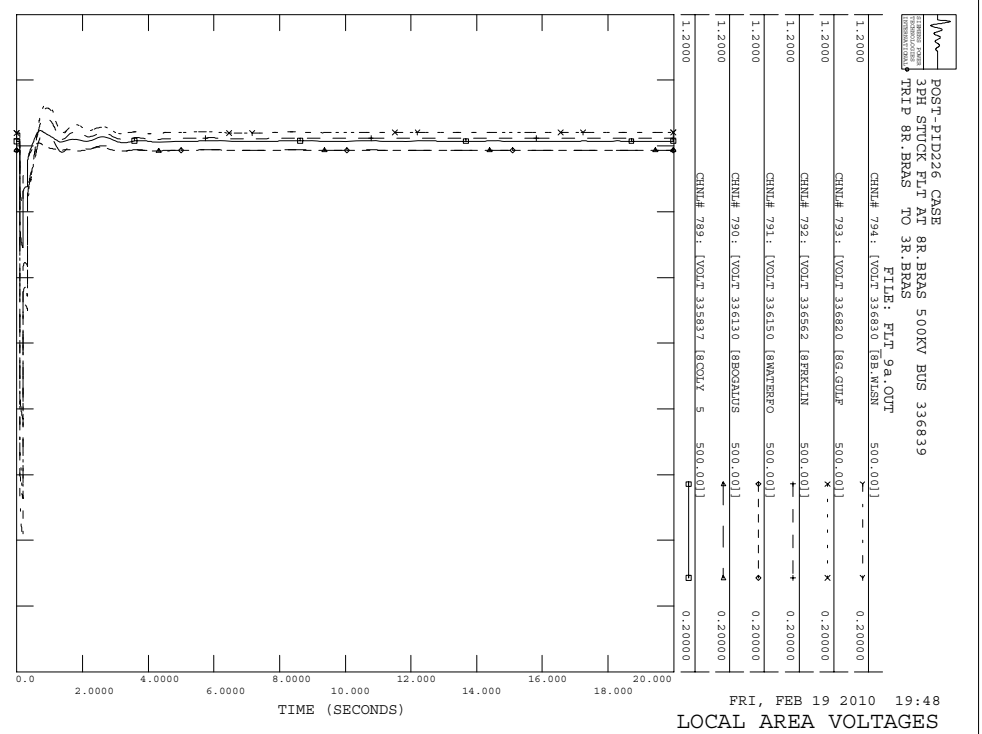
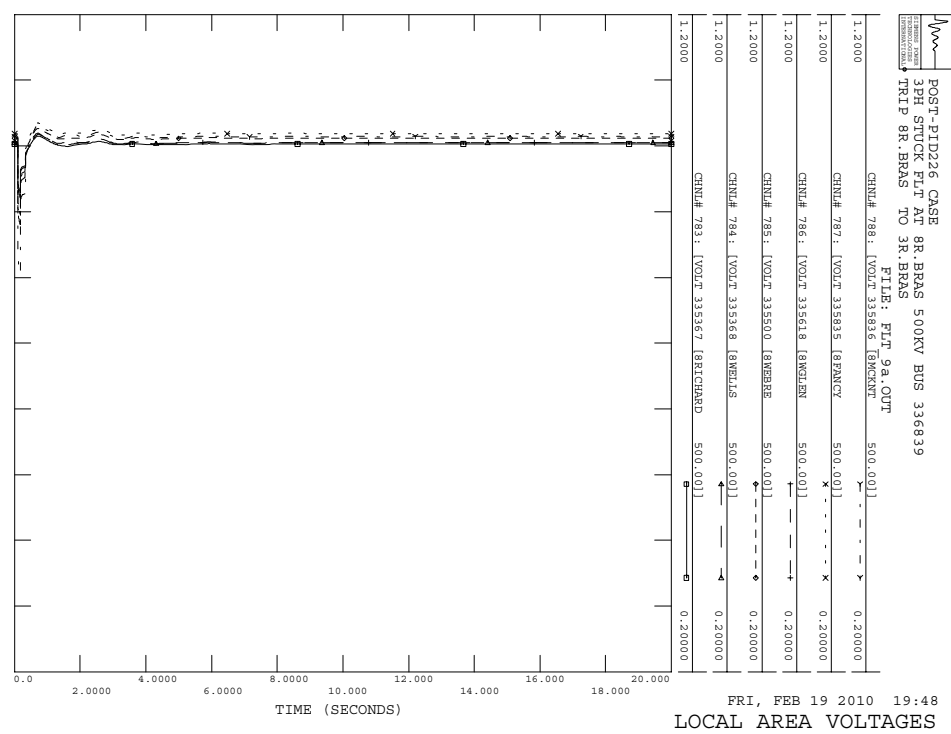


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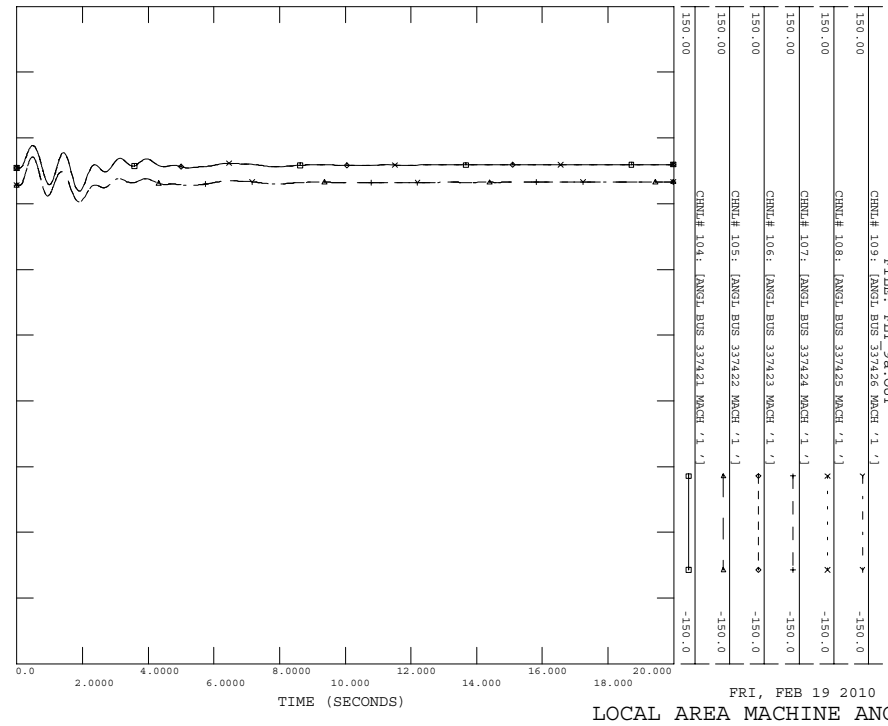
C.7 FLT_9a

Stuck breaker fault on 8R.BRAS (#336839) to 3R.BRA (#335827) transformer, near the 8R.BRAS.

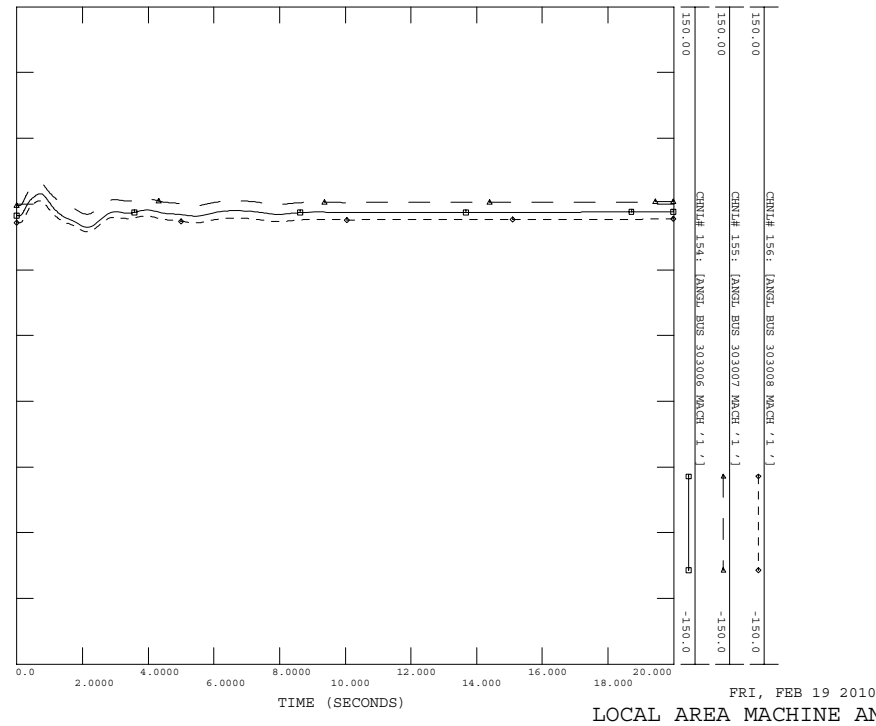
- a) Apply 3 Phase Fault AT 8R.BRAS 500KV BUS 336839
- b) Run fault for 5 cycles
- c) Remove Fault AT 8R.BRAS 500KV BUS 336839
- d) Apply 3 Phase fault at #336839 with admittance $765.3 -j 6686.74$ MVA
- e) Clear fault after 9 cycles by tripping Ray Braswell 500/ 115 kV Transformer #1.



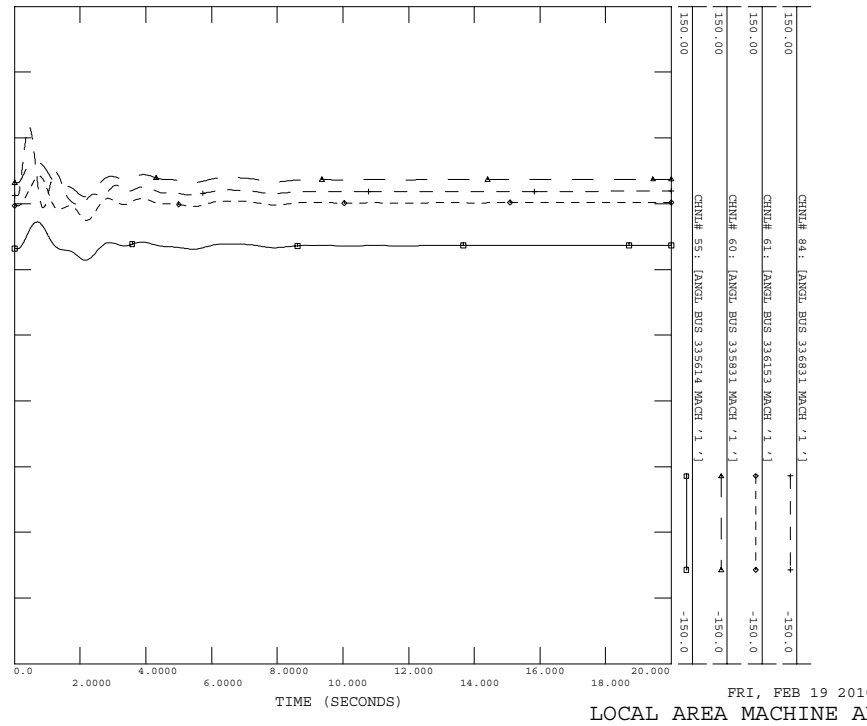
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_9a.OUT



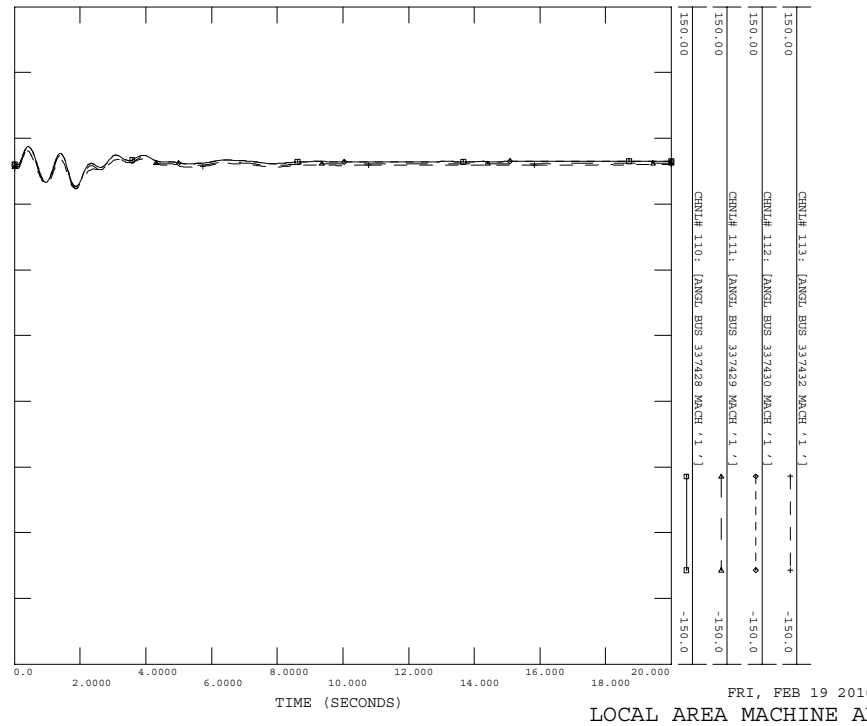
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_9a.OUT



POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_9a.OUT

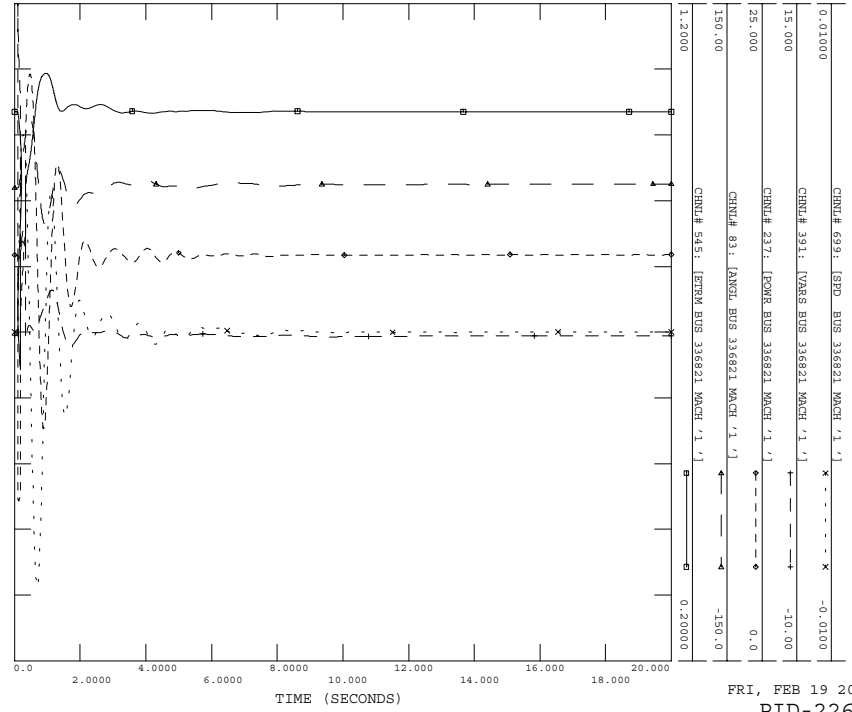


POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_9a.OUT





POST-PID226 CASE
3PH STOCK FLT AT 8R BRAS 500KV BUS 336839
IKLF 8R BRAS TO 3R BRAS
FILE: FLT_98.OUT

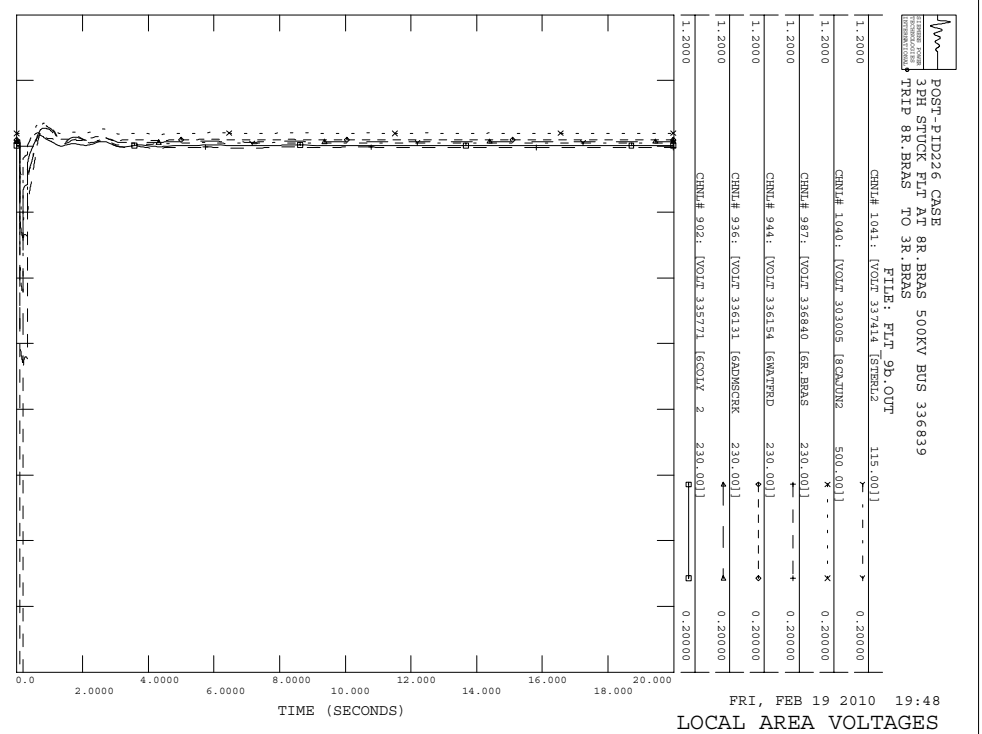
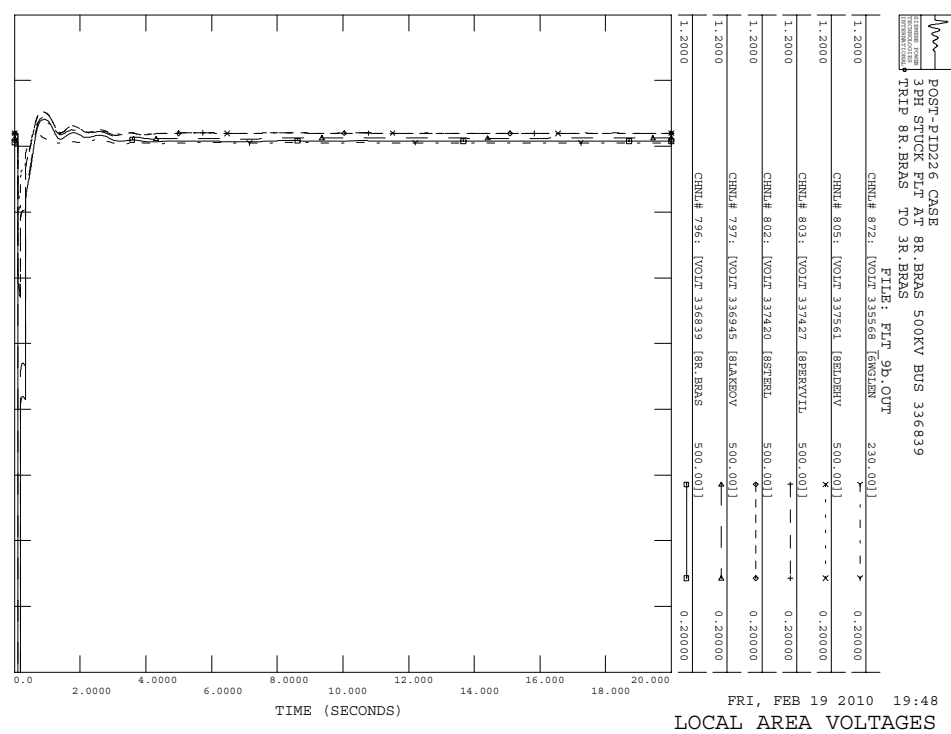
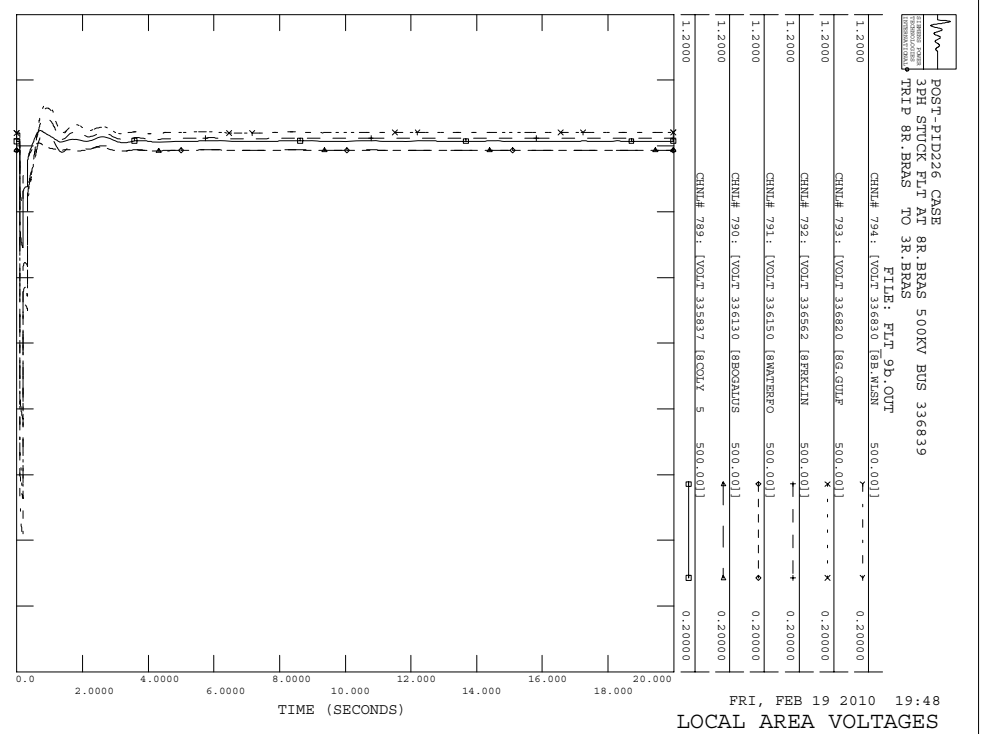
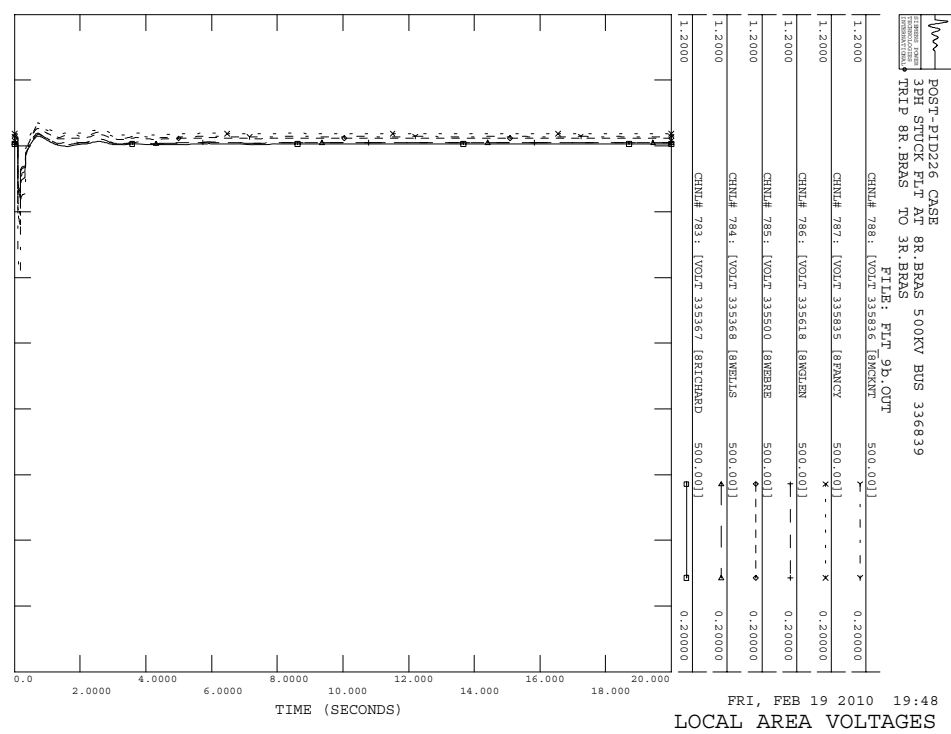


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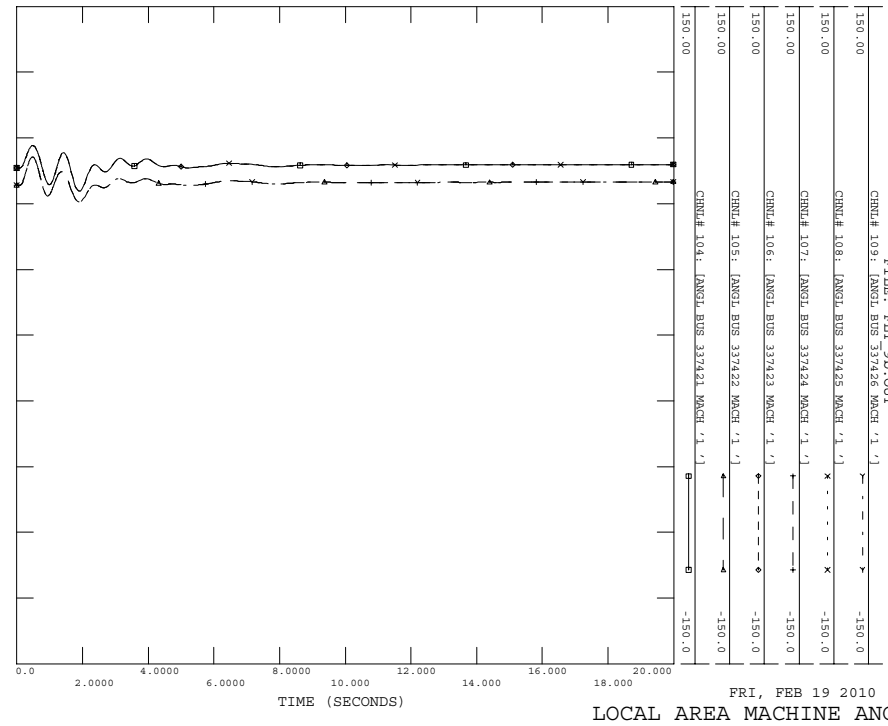
C.8 FLT_9b

Stuck breaker fault on 8R.BRAS (#336839) to 3R.BRA (#335827) transformer, near the 8R.BRAS.

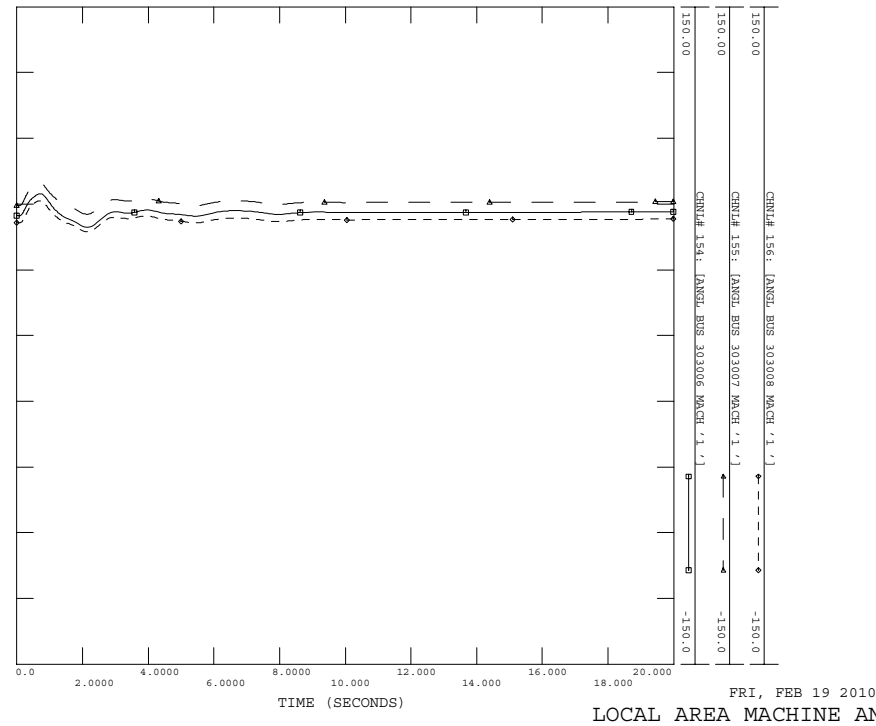
- a) Apply 3 Phase Fault AT 8R.BRAS 500KV BUS 336839
- b) Run fault for 5 cycles
- c) Remove Fault AT 8R.BRAS 500KV BUS 336839
- d) Apply 3 Phase fault at #336839 with admittance $765.3 -j 6686.74$ MVA
- e) Clear fault after 9 cycles by tripping Ray Braswell 500/ 115 kV Transformer #1



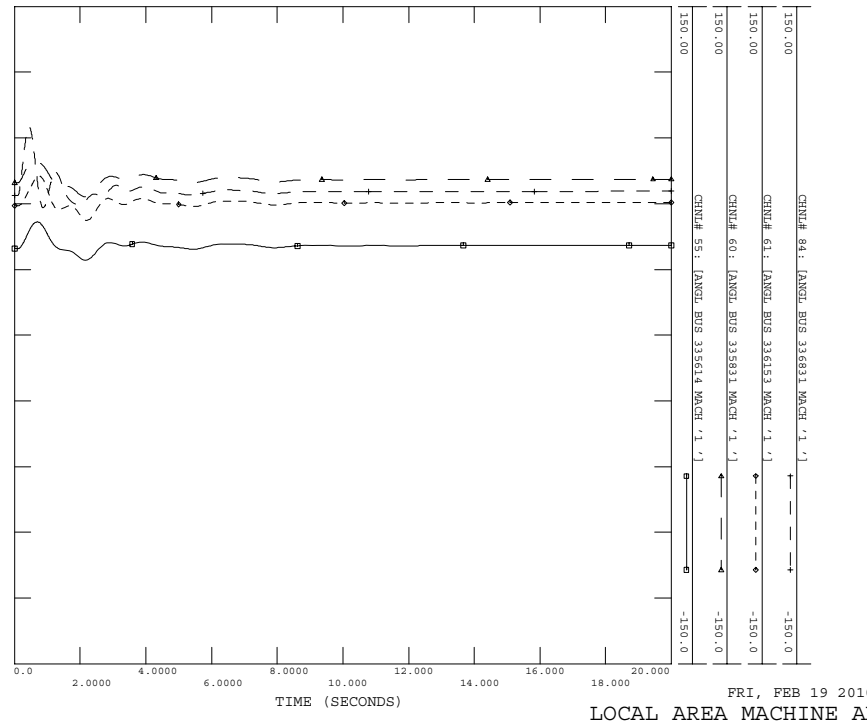
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_9P.OUT



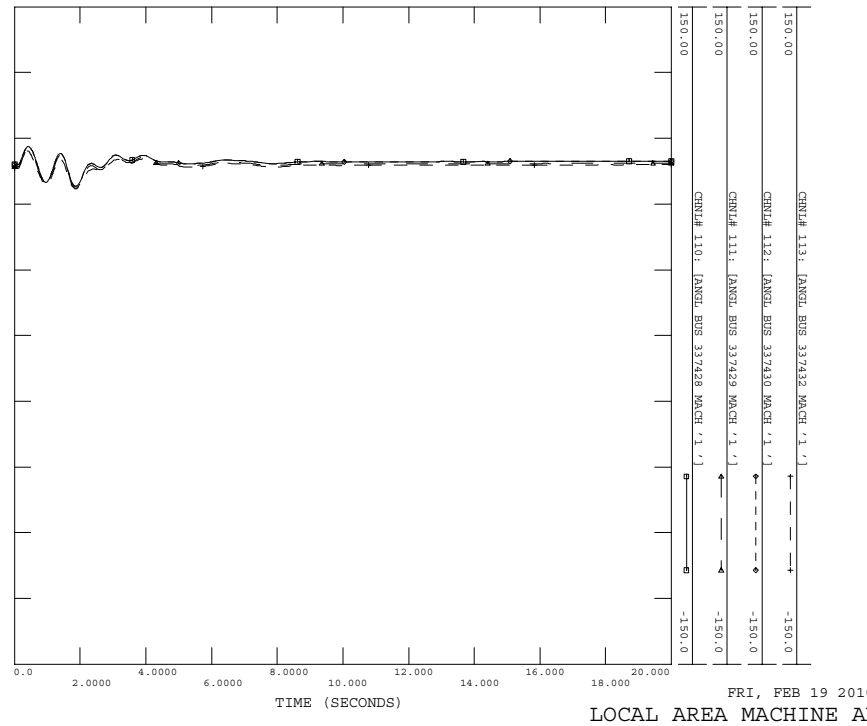
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_9P.OUT




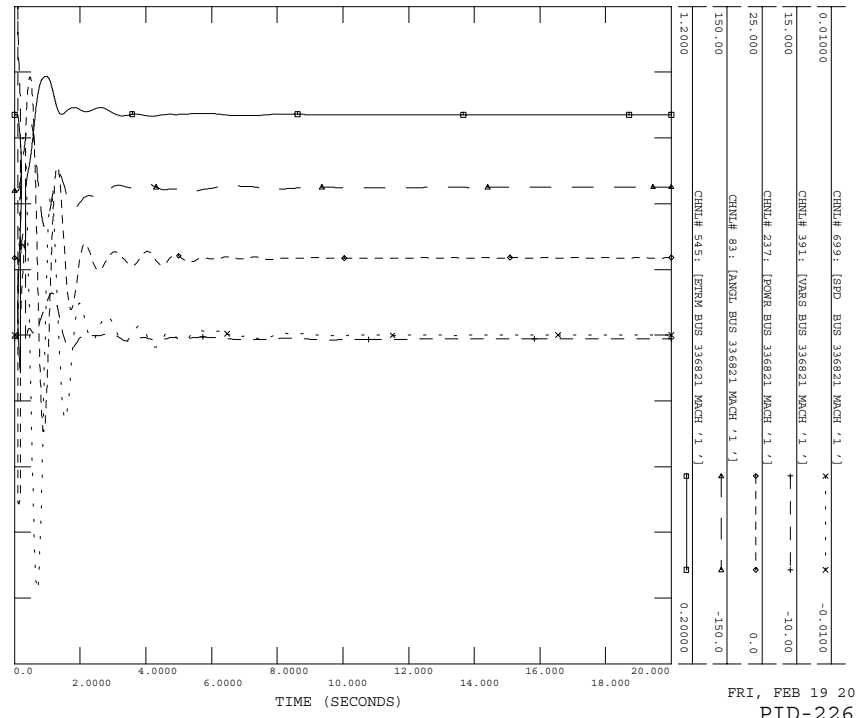
POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_9P.OUT



POST-PTD226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS
 FILE: FLT_9P.OUT



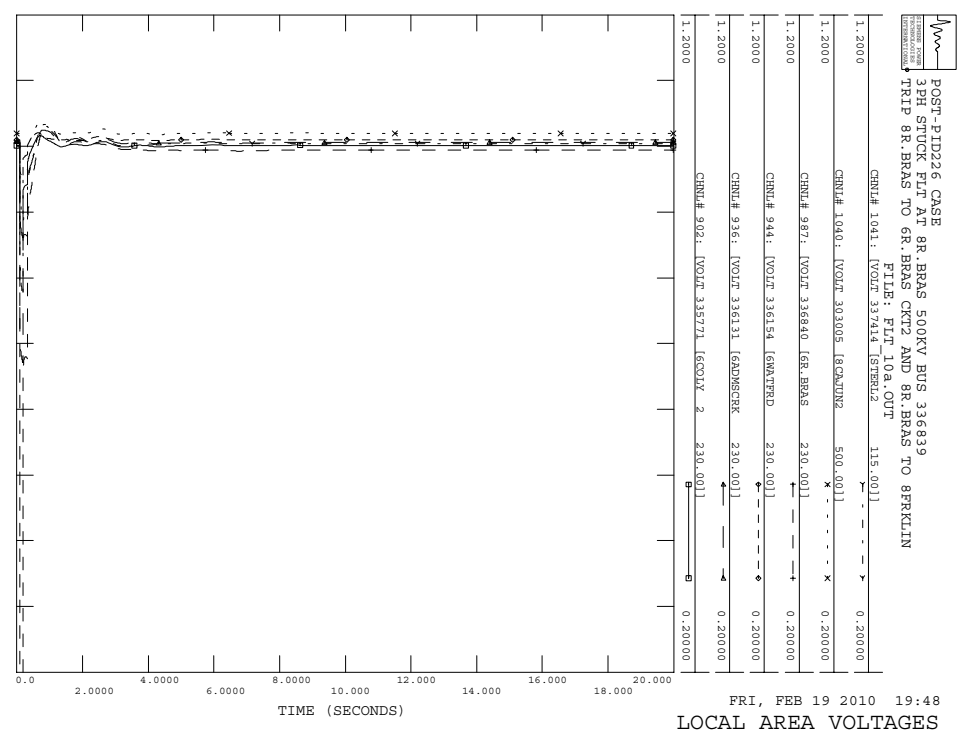
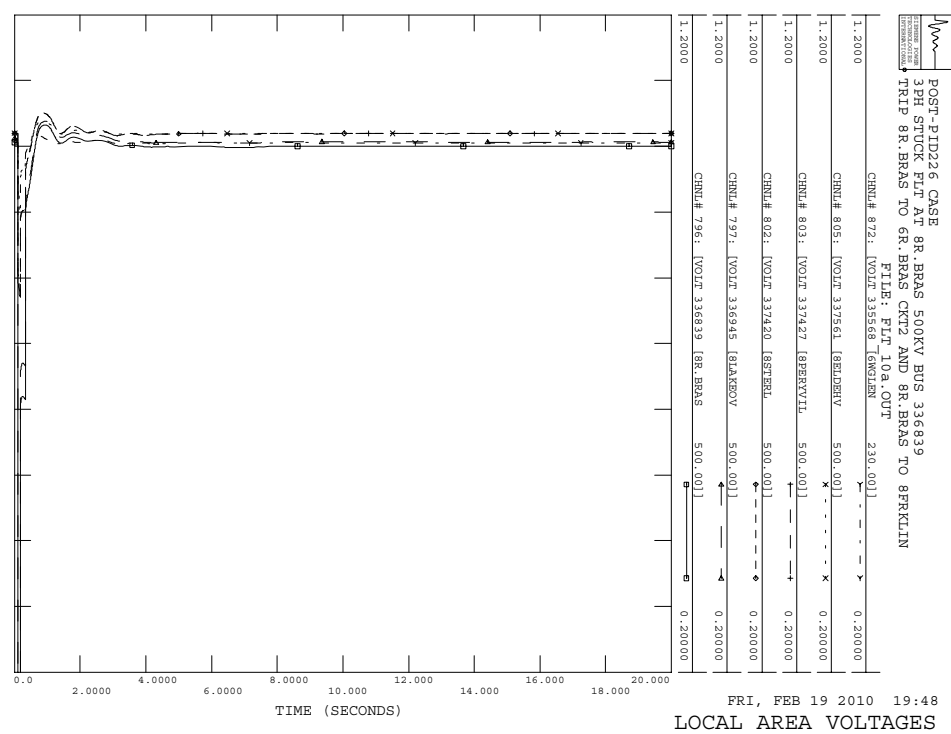
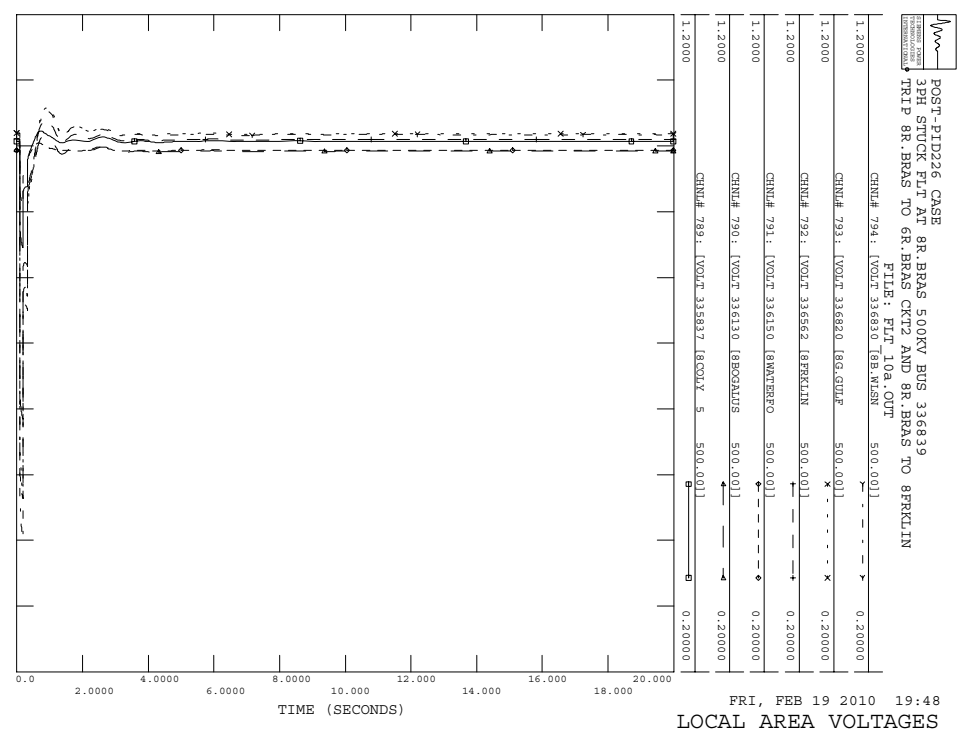
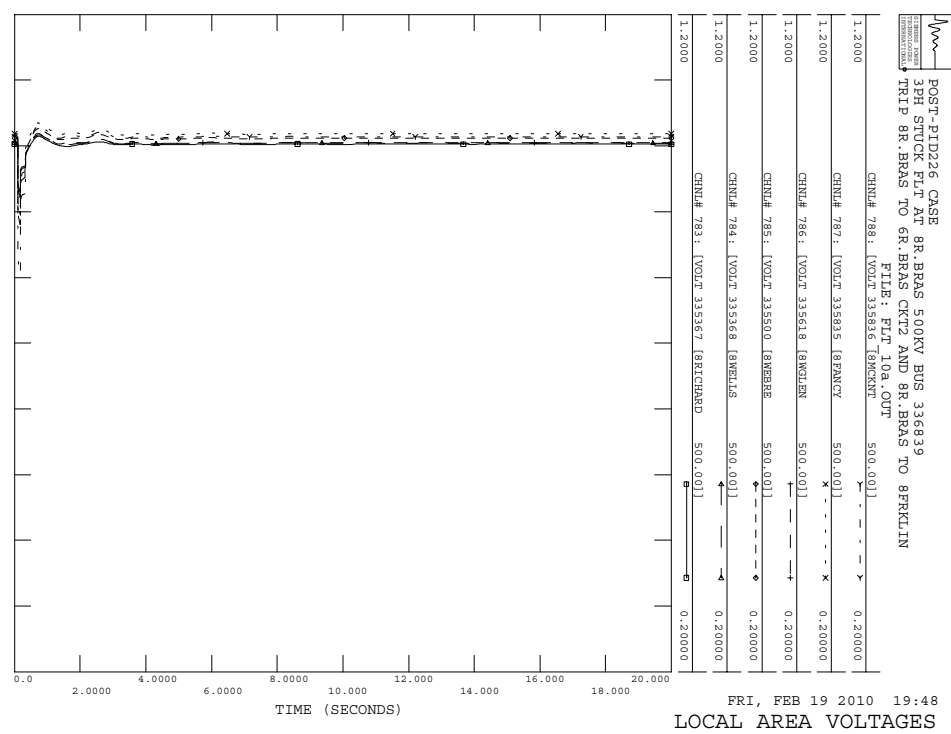

 POST-PID226 CASE
 3PH STOCK FLT AT 8R BRAS 500KV BUS 336839
 3PH 8R BRAS TO 3R BRAS
 FILE: FLT_9P.OUT



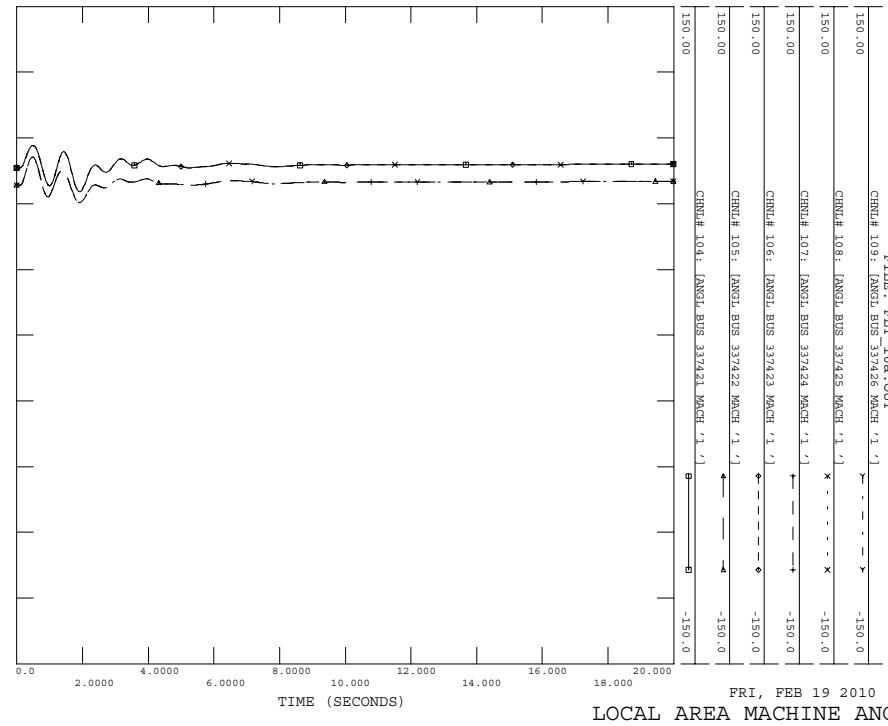
C.9 FLT_10a

Stuck breaker fault on 8R.BRAS (#336839) to 6R.BRAS (#336840) transformer, near the 8R.BRAS.

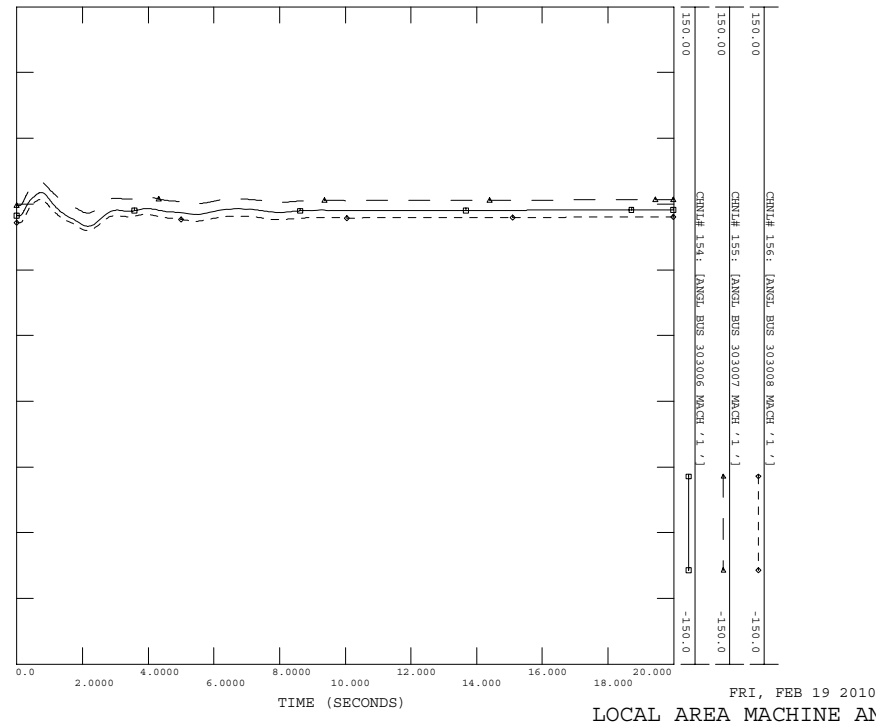
- a) Apply 3 Phase Fault AT 8R.BRAS 500KV BUS 336839
- b) Run fault for 5 cycles
- c) Remove Fault AT 8R.BRAS 500KV BUS 336839
- d) Apply 3 Phase fault at #336839 with admittance $765.3 -j 6686.74$ MVA
- e) Clear fault after 9 cycles by tripping Ray Braswell 500/ 230 kV Transformer #2; Ray Braswell - Franklin 500 kV.



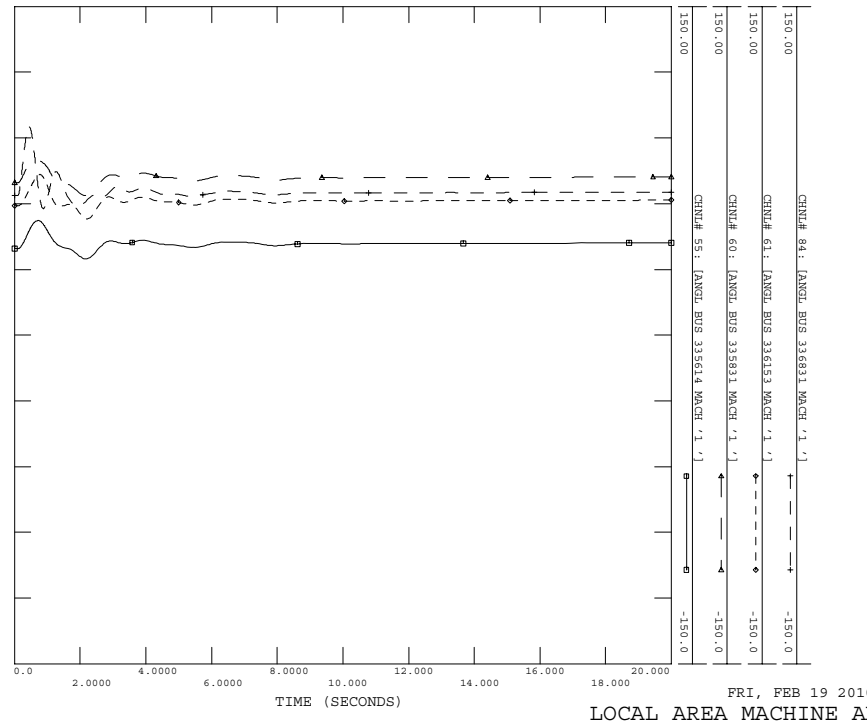
POST-PID226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 6R.BRAS CKT2 AND 8R.BRAS TO 8FRKLIN
 FILE: FLT_10A.OUT



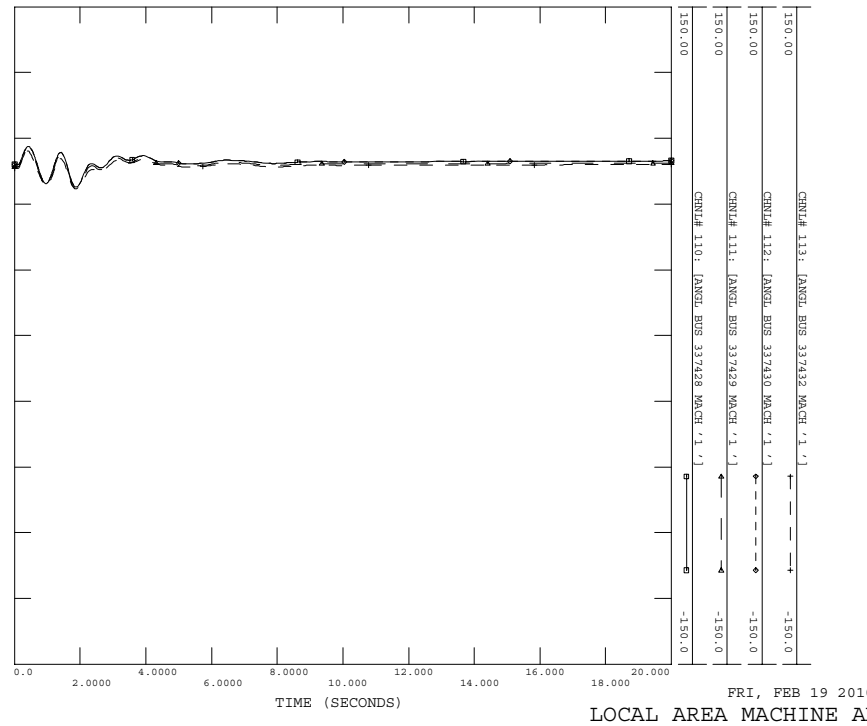
POST-PID226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 6R.BRAS CKT2 AND 8R.BRAS TO 8FRKLIN
 FILE: FLT_10A.OUT



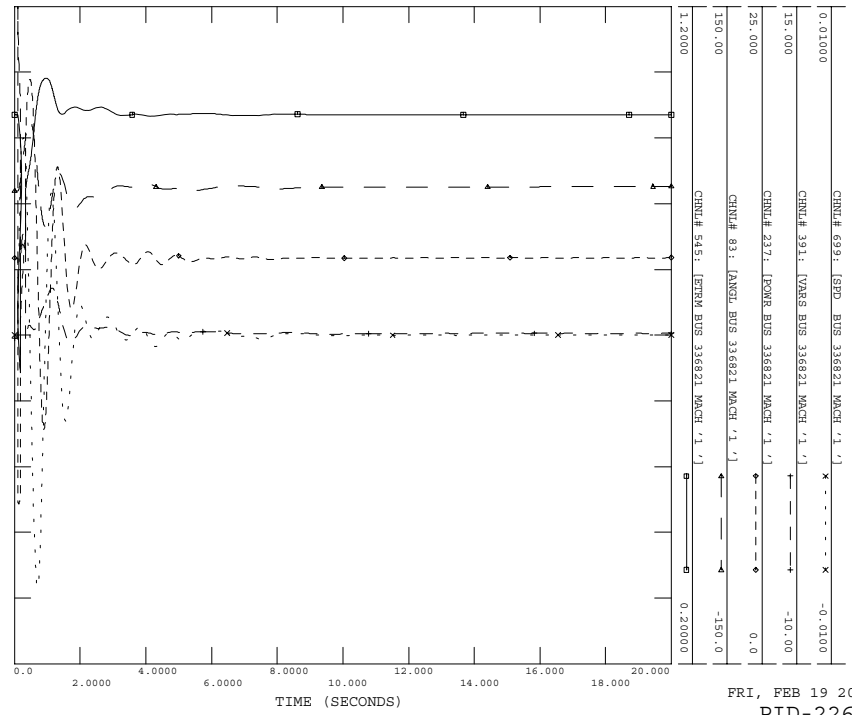
POST-PID226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 6R.BRAS CKT2 AND 8R.BRAS TO 8FRKLIN
 FILE: FLT_10A.OUT



POST-PID226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 6R.BRAS CKT2 AND 8R.BRAS TO 8FRKLIN
 FILE: FLT_10A.OUT



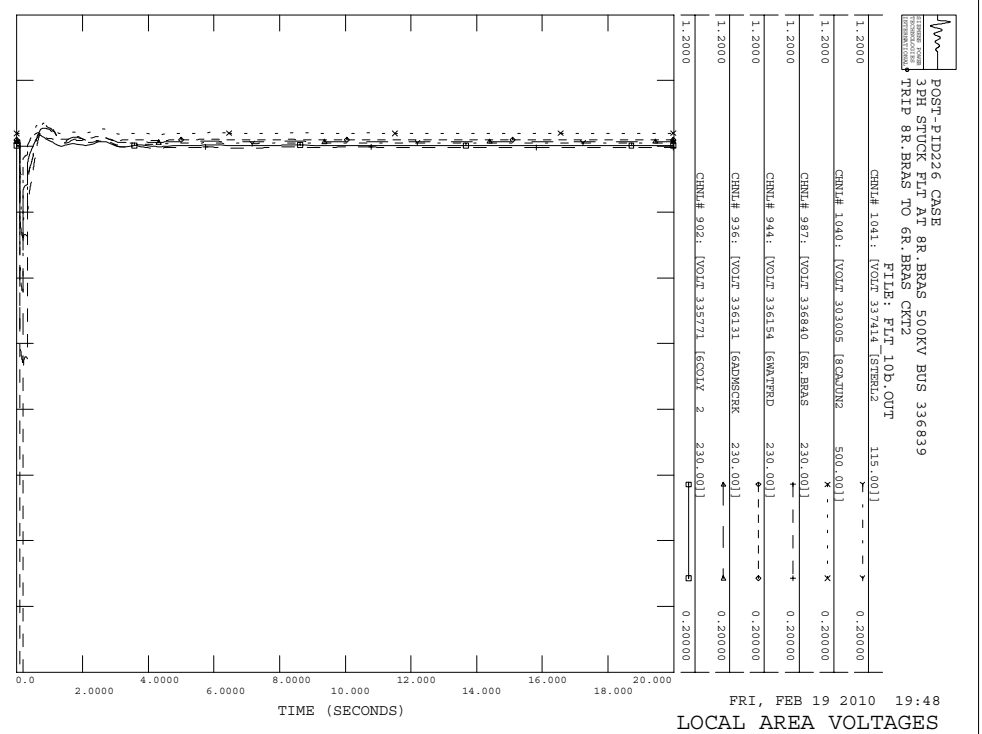
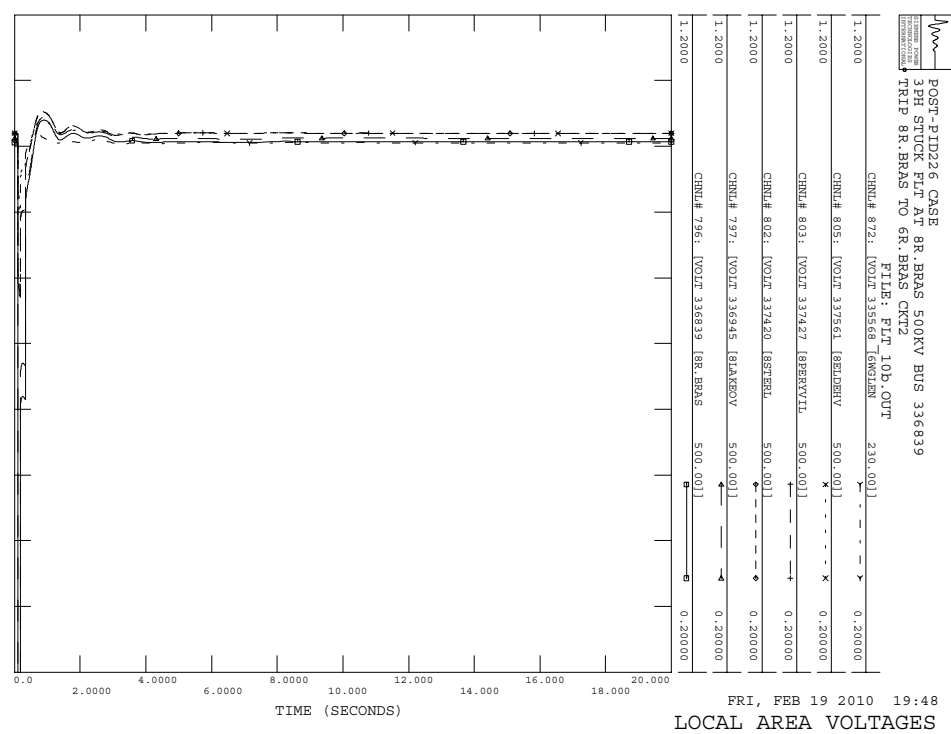
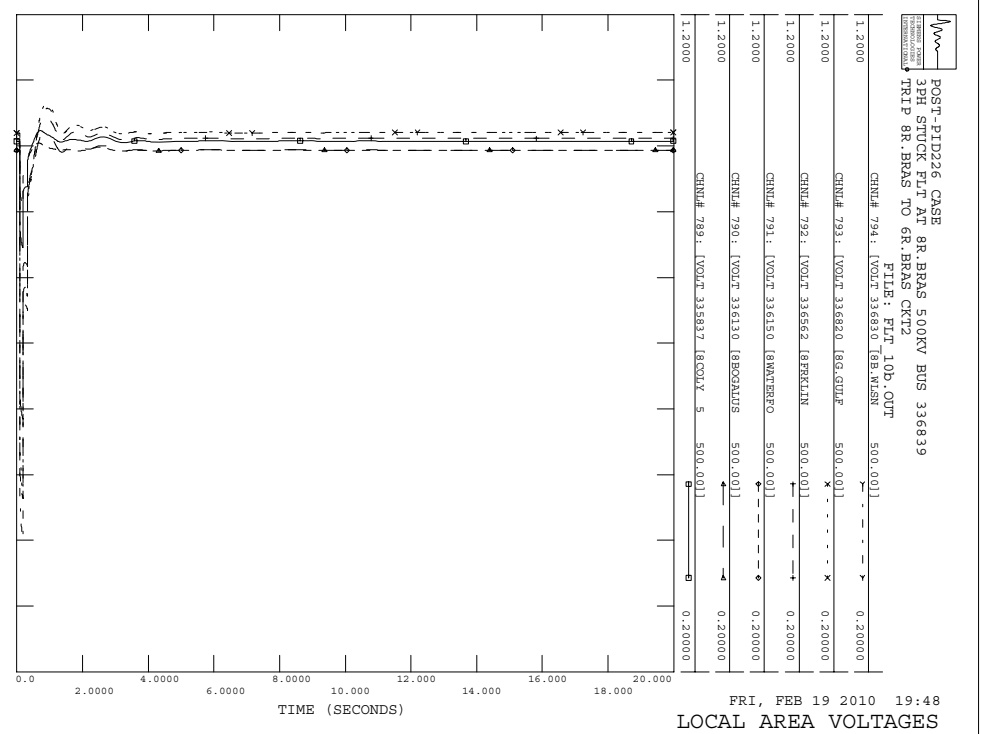
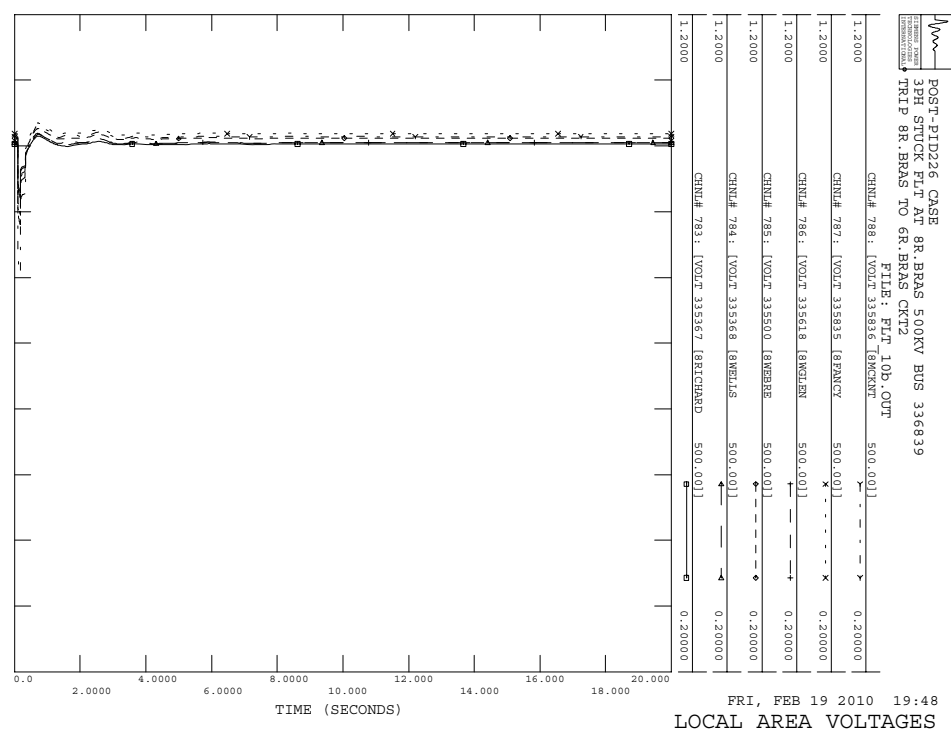
POST-PID226 CASE
3PH STOCK FLT AT 8R.BRAS 500KV BUS 336839
IKLF 8R.BRAS TO 8R.BRAS CRTZ AND 8R.BRAS TO 8PRKLIN
FILE: FLT_10A.OUT



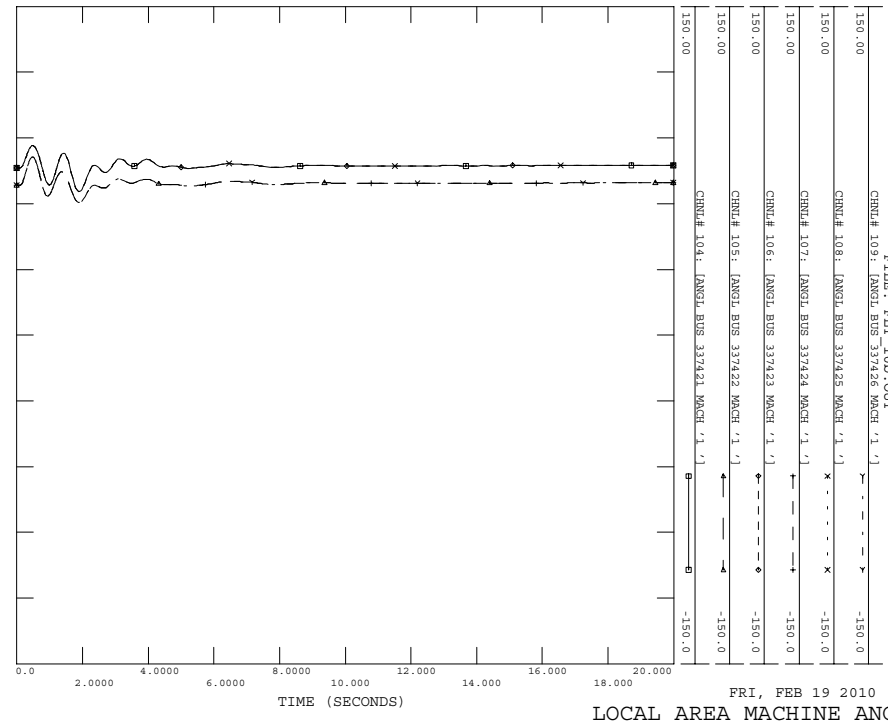
C.10 FLT_10b

Stuck breaker fault on 8R.BRAS (#336839) to 6R.BRAS (#336840) transformer, near the 8R.BRAS.

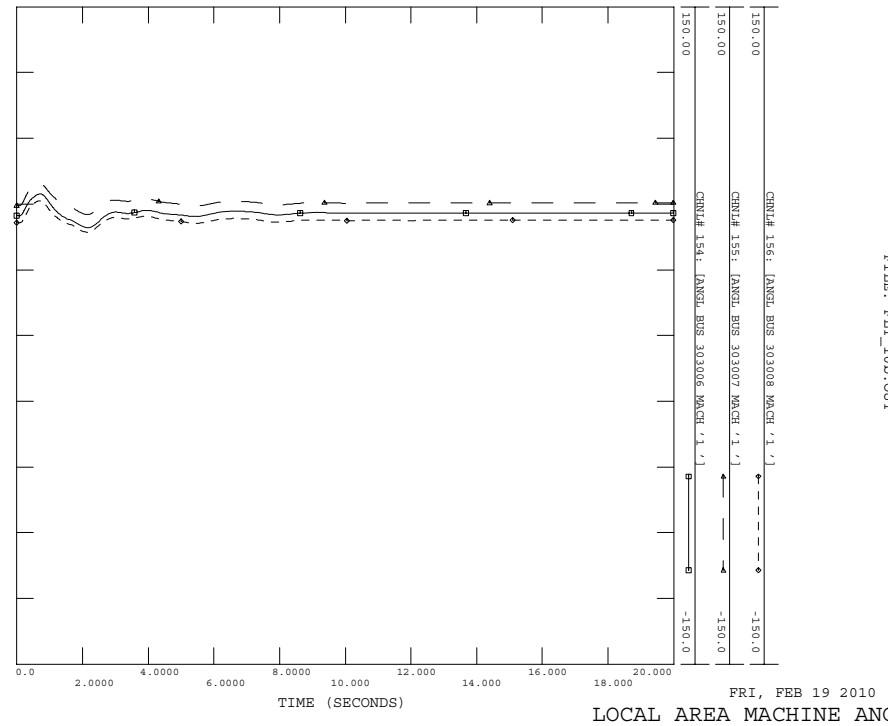
- a) Apply 3 Phase Fault AT 8R.BRAS 500KV BUS 336839
- b) Run fault for 5 cycles
- c) Remove Fault AT 8R.BRAS 500KV BUS 336839
- d) Apply 3 Phase fault at #336839 with admittance $765.3 -j 6686.74$ MVA
- e) Clear fault after 9 cycles by tripping Ray Braswell 500/230 kV transformer #2.



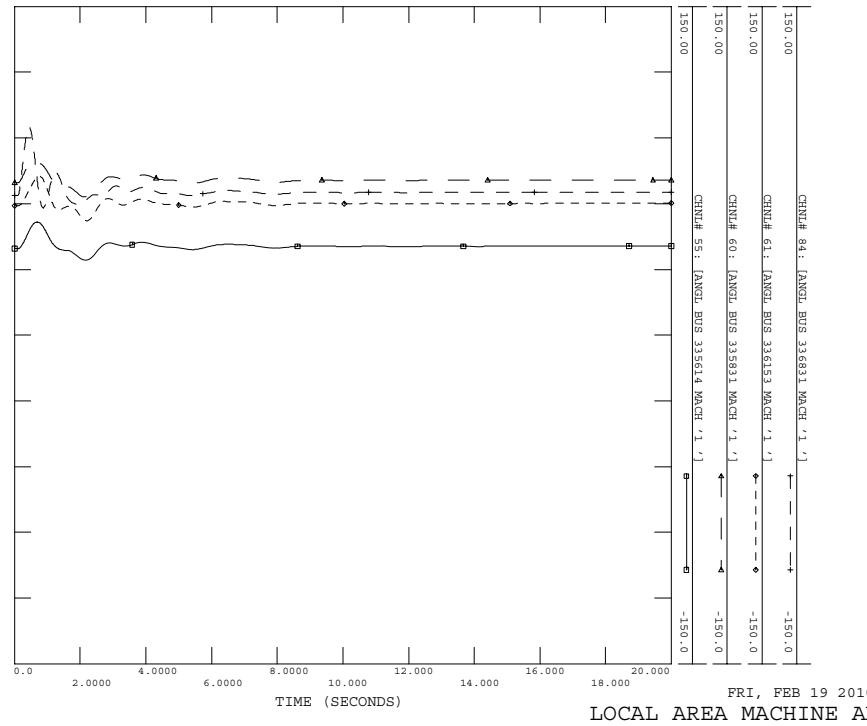
POST-PID226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 6R.BRAS CKT2
 FILE: FLT_10B.OUT



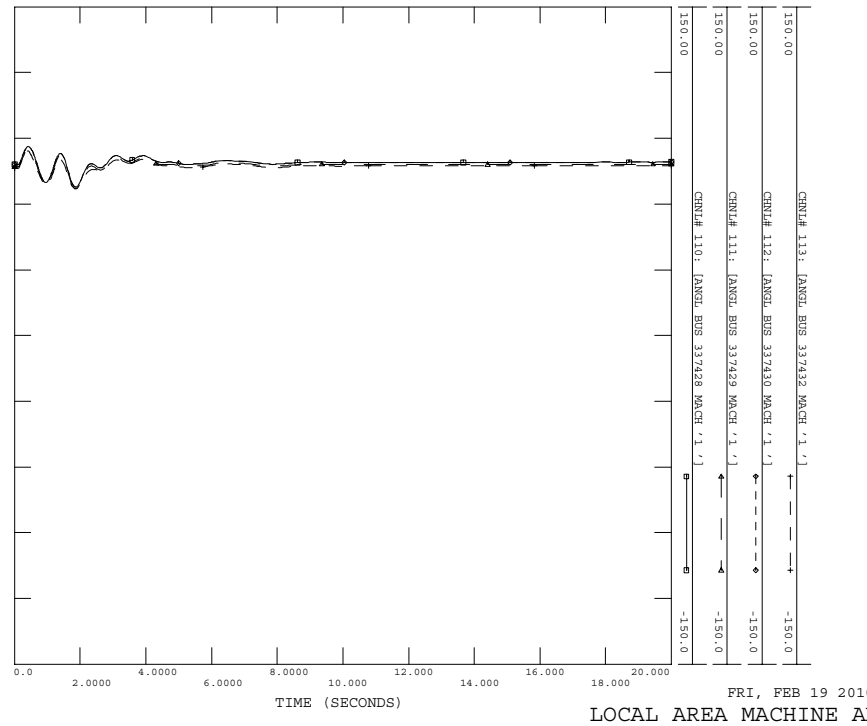
POST-PID226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 6R.BRAS CKT2
 FILE: FLT_10B.OUT



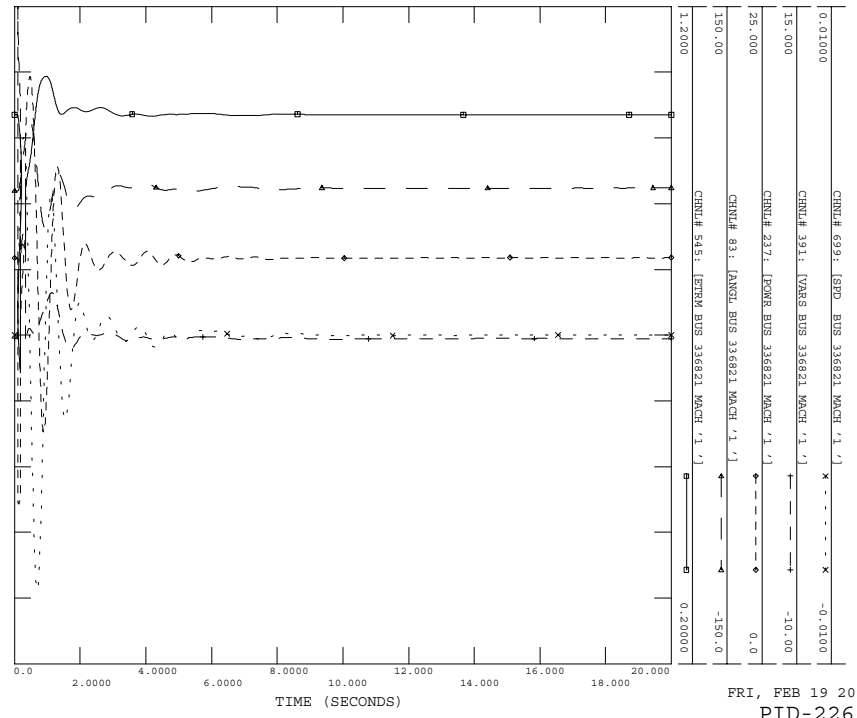
POST-PID226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 6R.BRAS CKT2
 FILE: FLT_10B.OUT



POST-PID226 CASE
 3PH STUCK FLT AT 8R.BRAS 500KV BUS 336839
 TRIP 8R.BRAS TO 6R.BRAS CKT2
 FILE: FLT_10B.OUT



POST-PID226 CASE
 3PH STOCK FLT AT 8R.BRMS 500KV BUS 336839
 IRLF 8R.BRMS TO 8R.BRMS CRTZ
 FILE: FLT_10B.OUT



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