

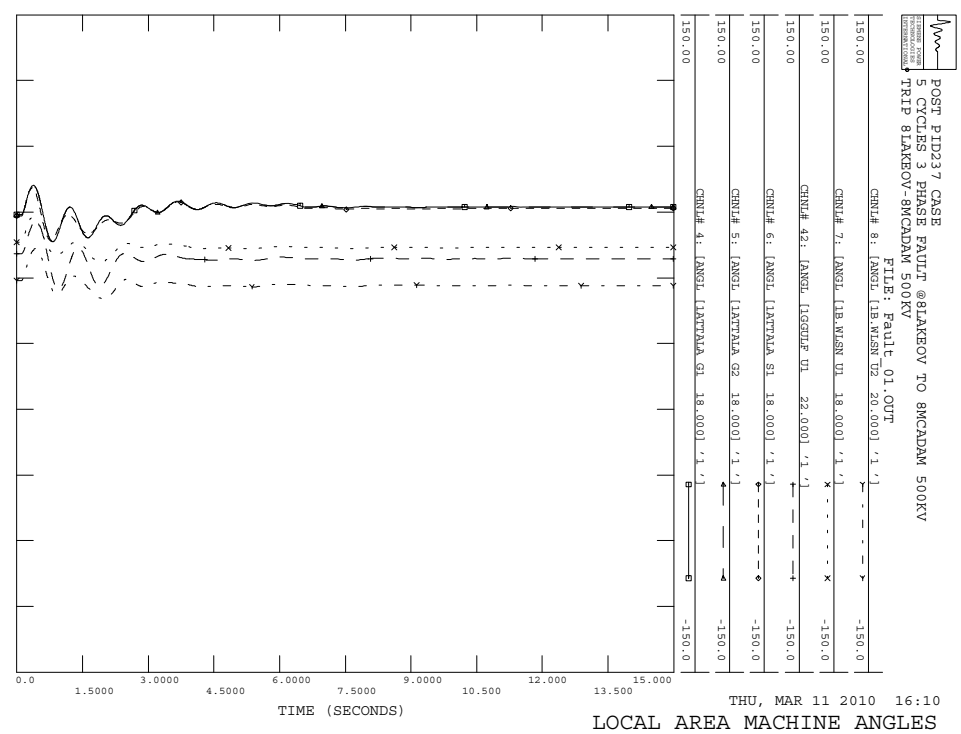
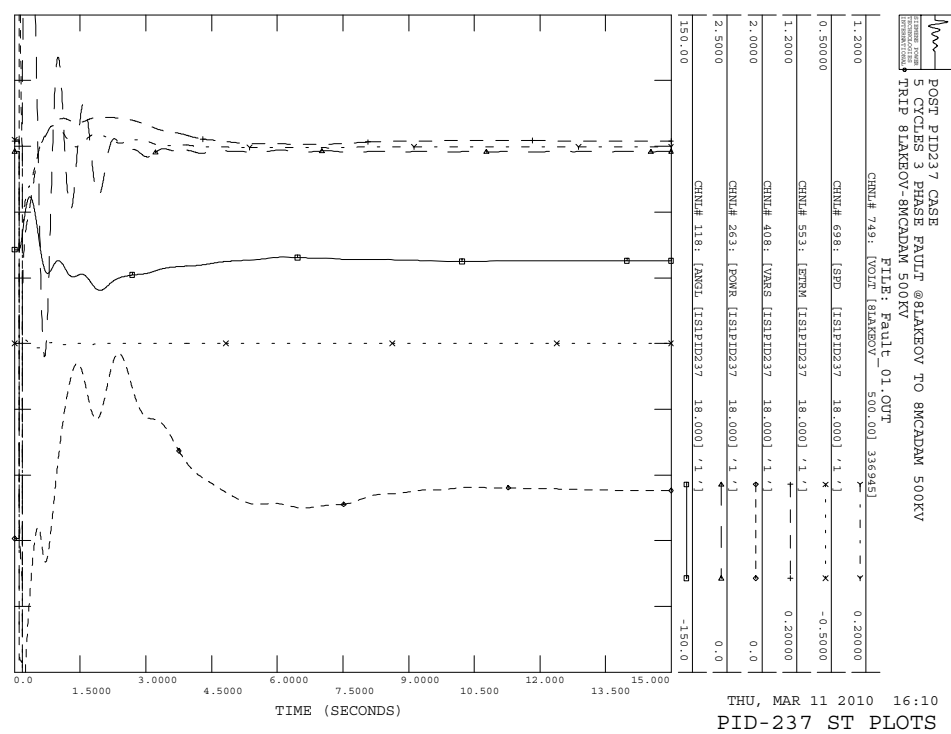
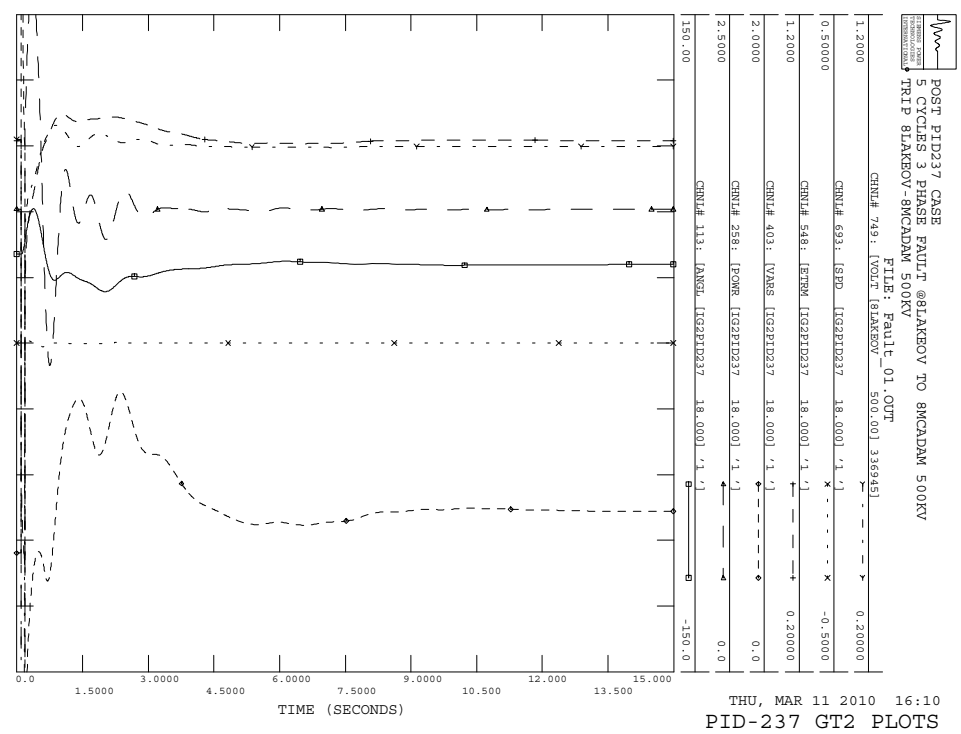
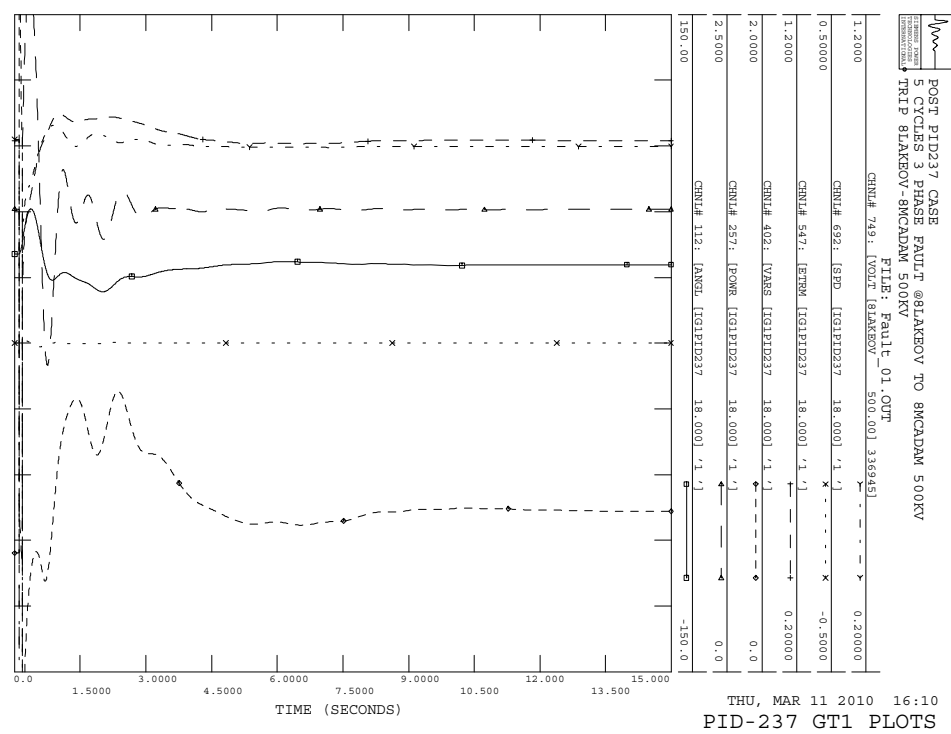
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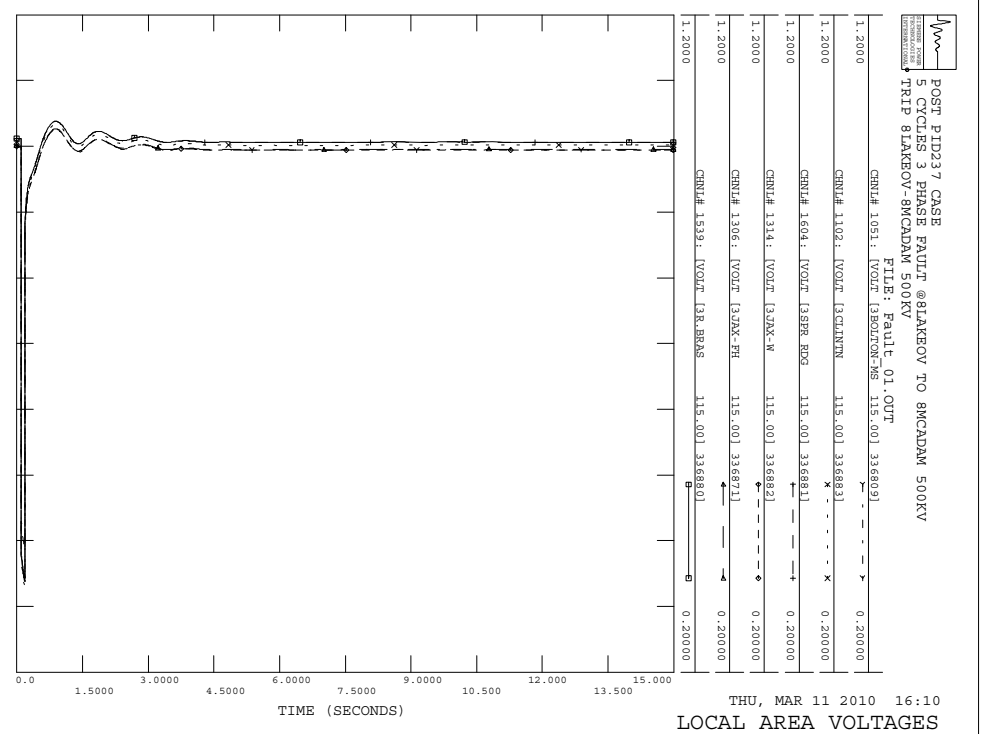
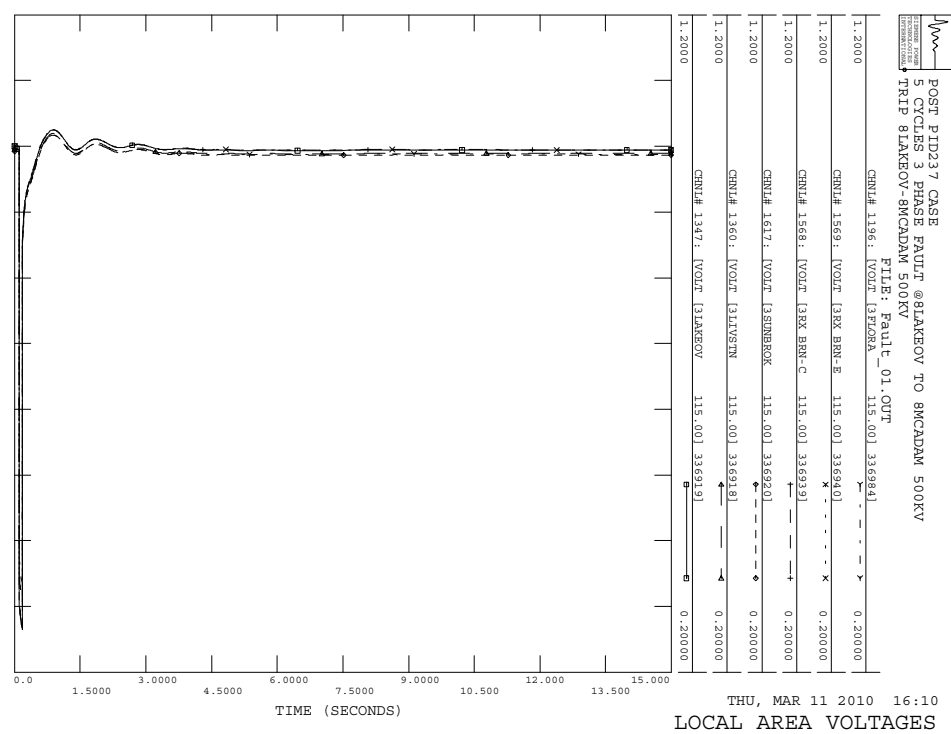
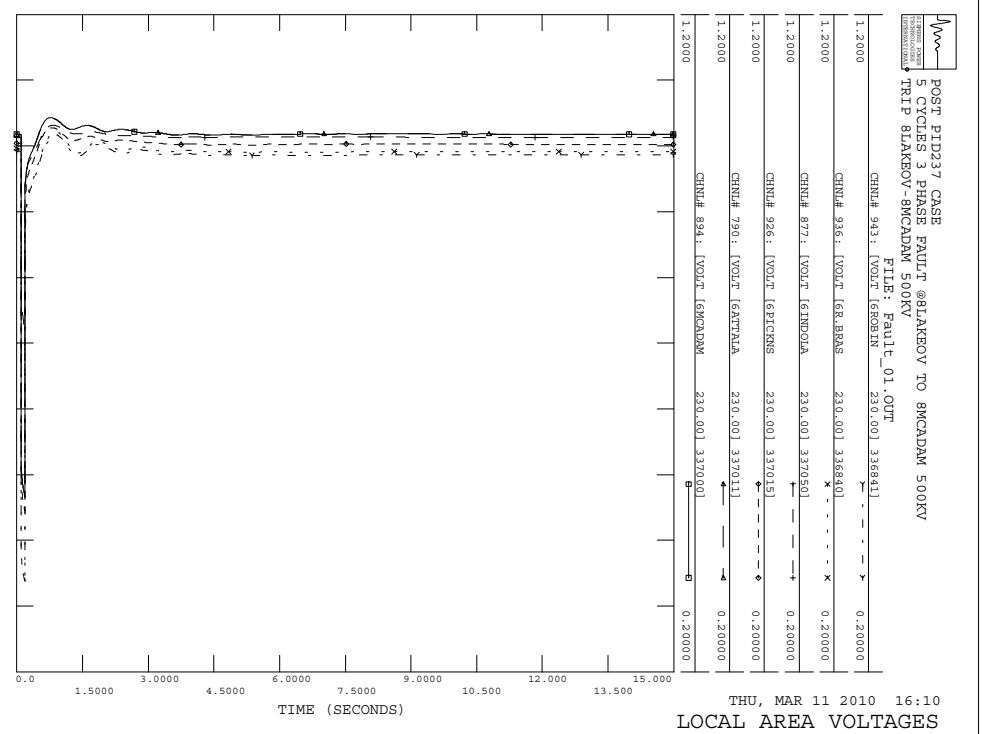
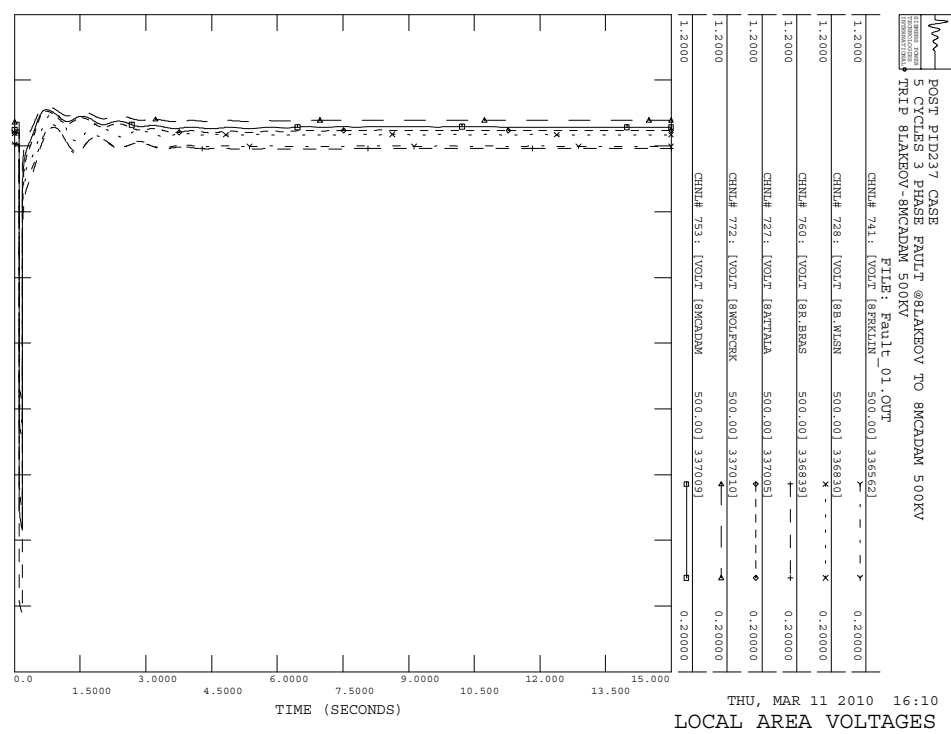
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## **Appendix C Plots For Stability Simulations**

### **C.01 Fault\_01**

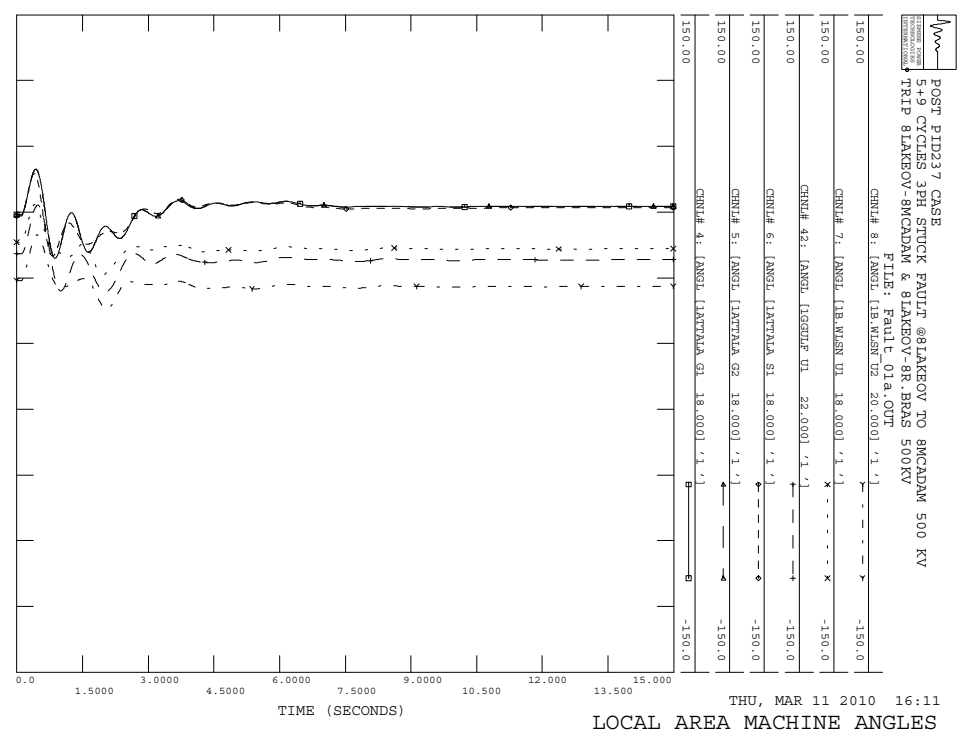
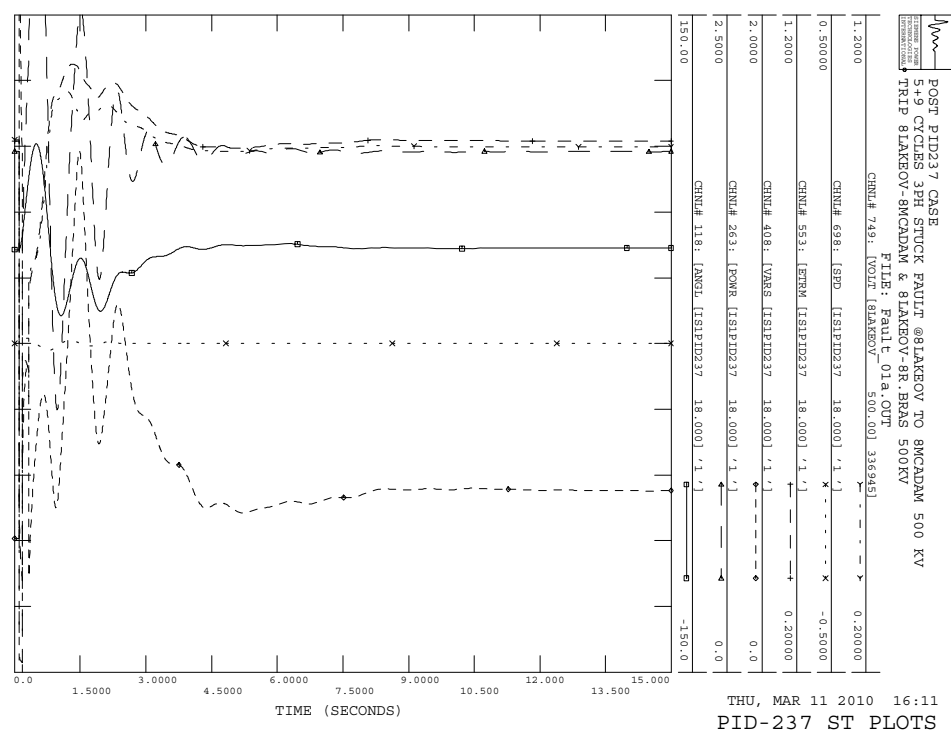
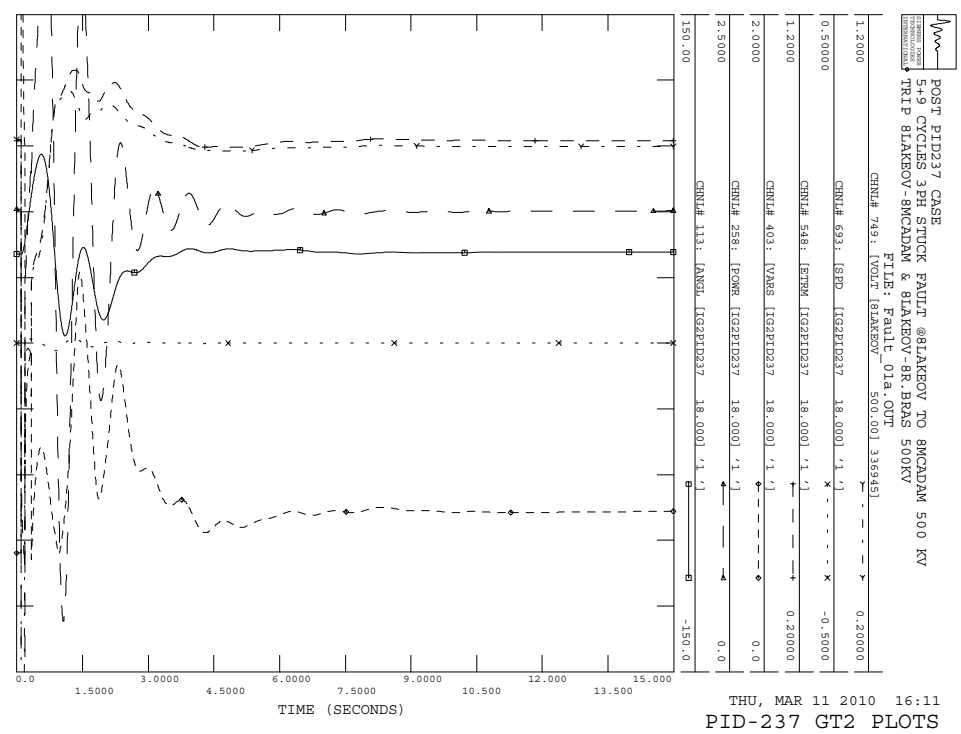
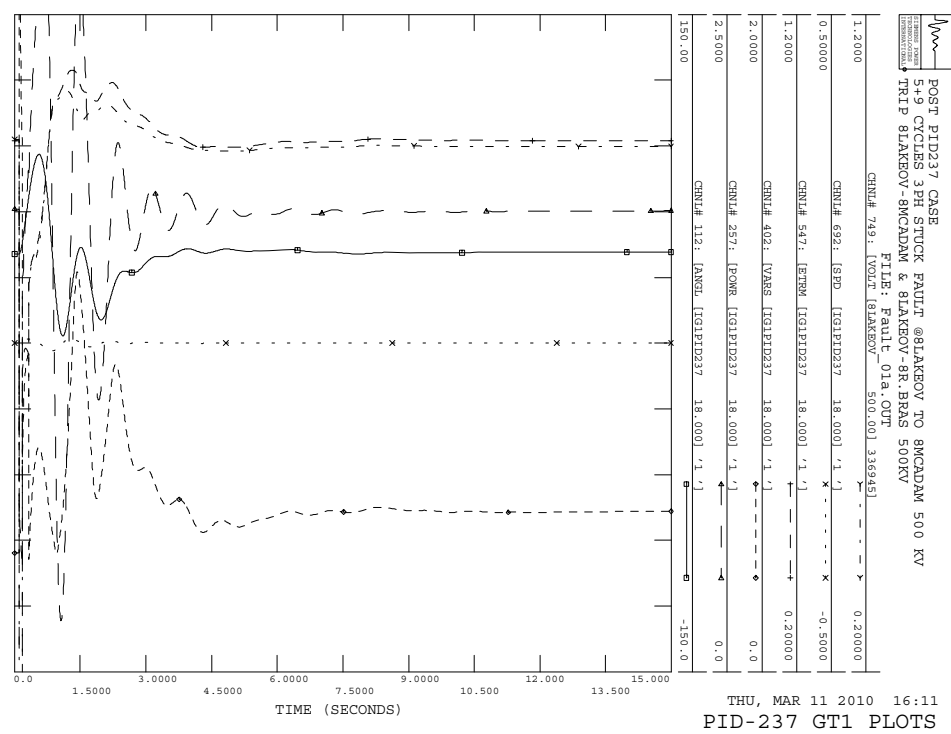
5 cycles 3 Phase Fault @8LAKEOV to 8MCADAM 500kV  
Trip 8LAKEOV-8MCADAM 500kV

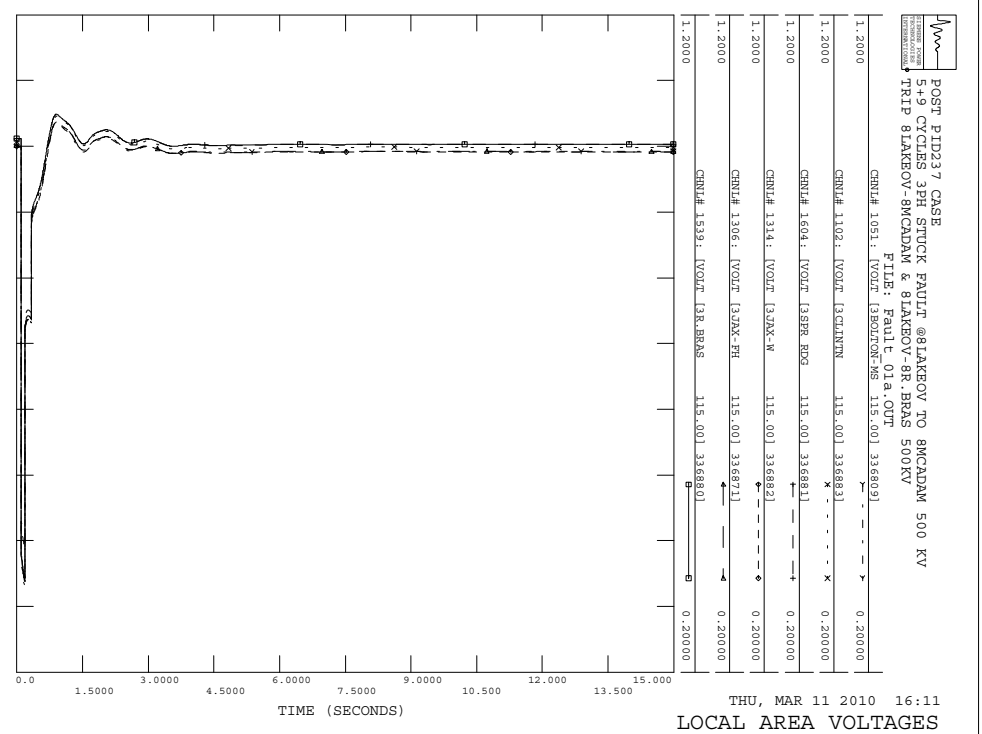
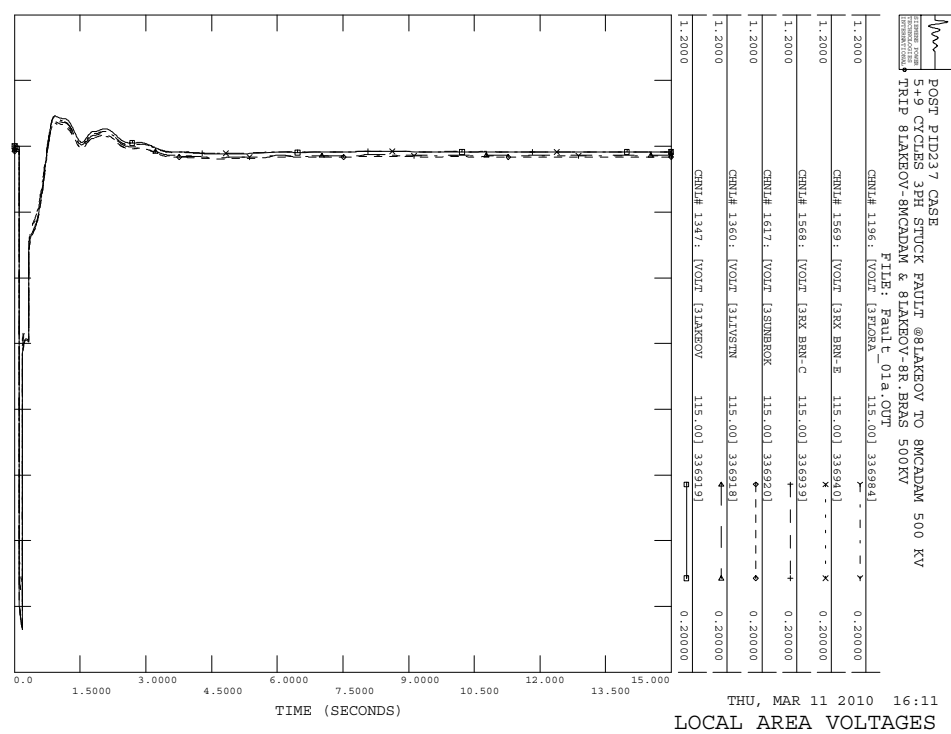
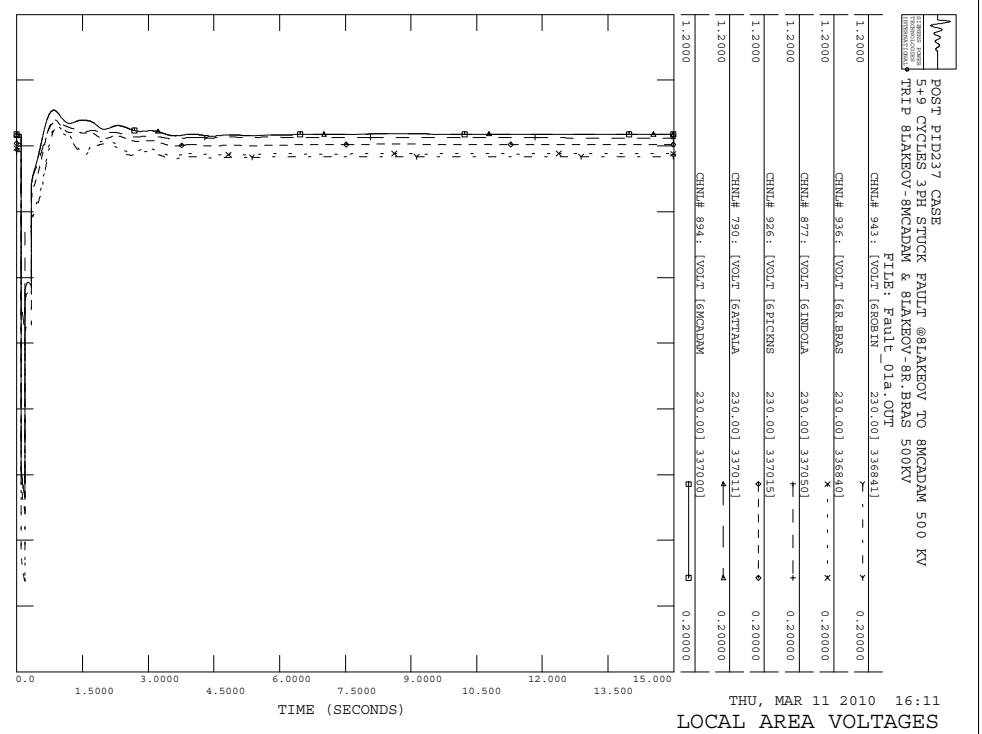
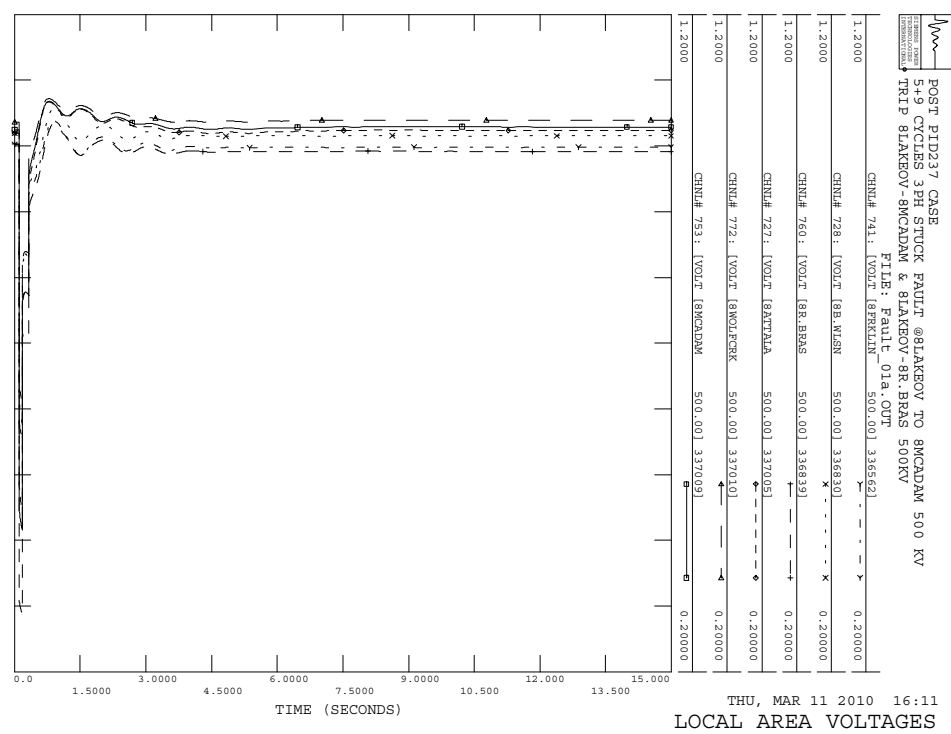




## **C.02 Fault\_01a**

5+9 cycles 3Ph Stuck Fault @8LAKEOV to 8MCADAM 500 kV  
Trip 8LAKEOV-8MCADAM & 8LAKEOV-8R.BRAS 500kV

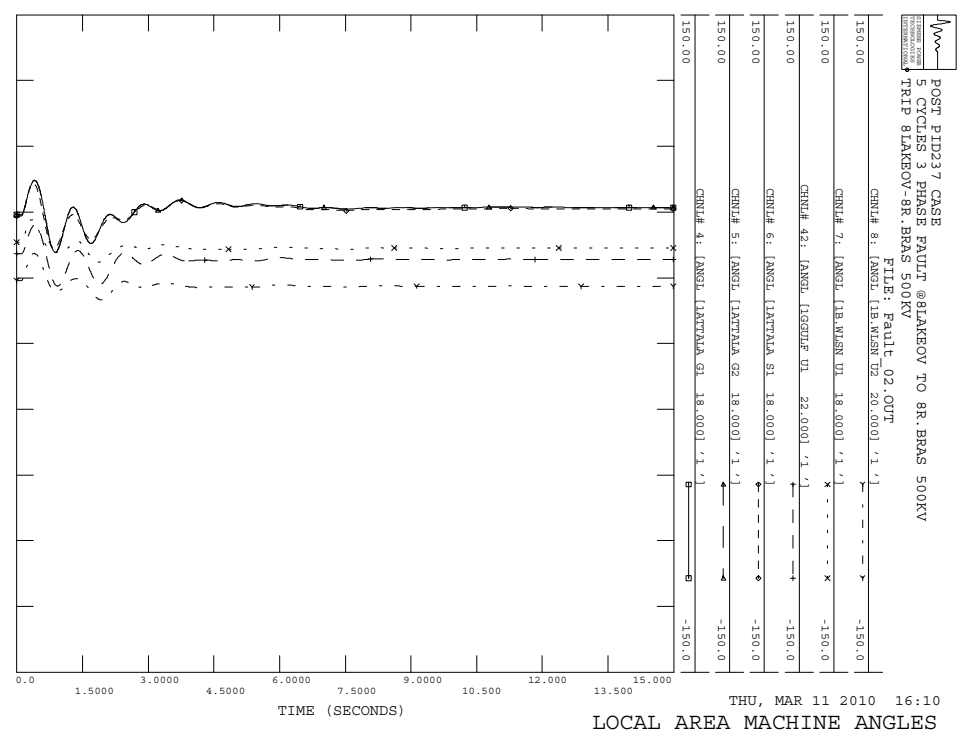
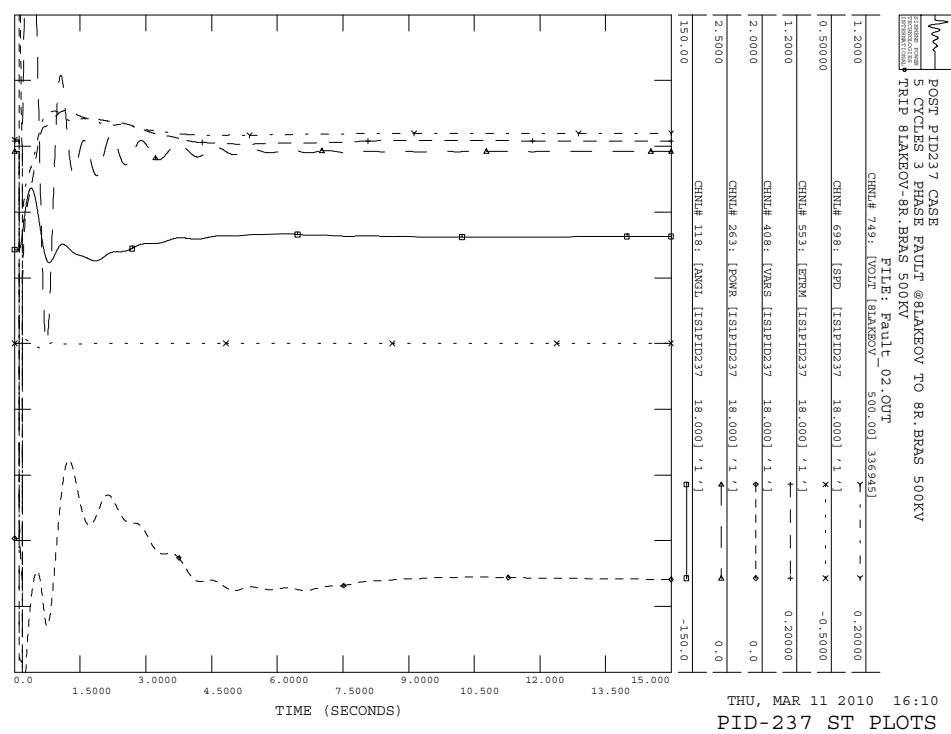
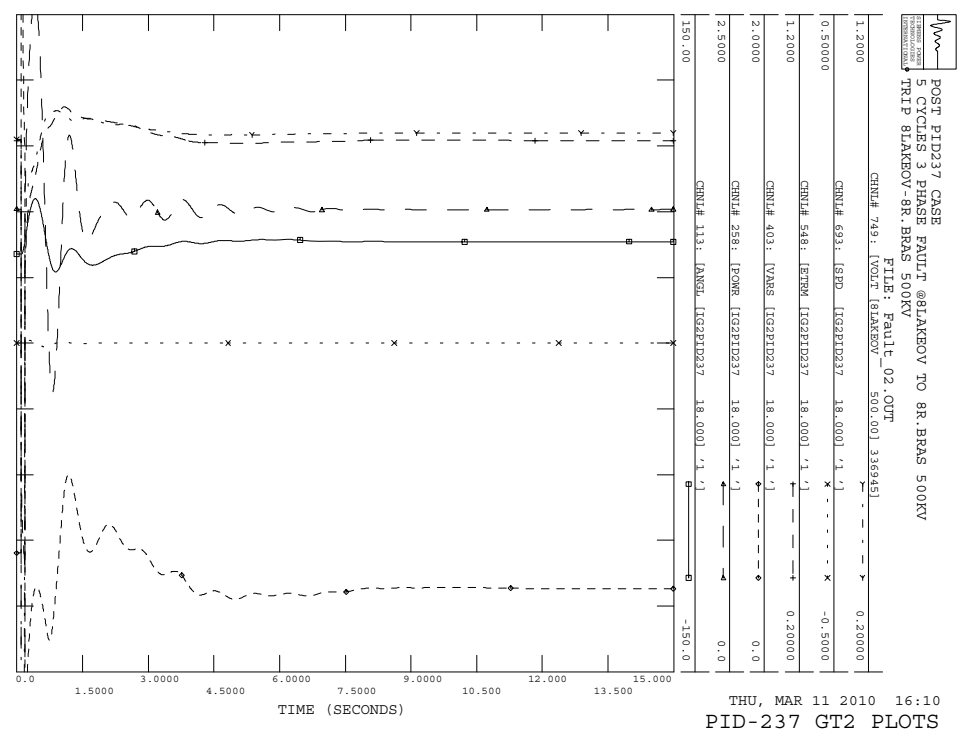
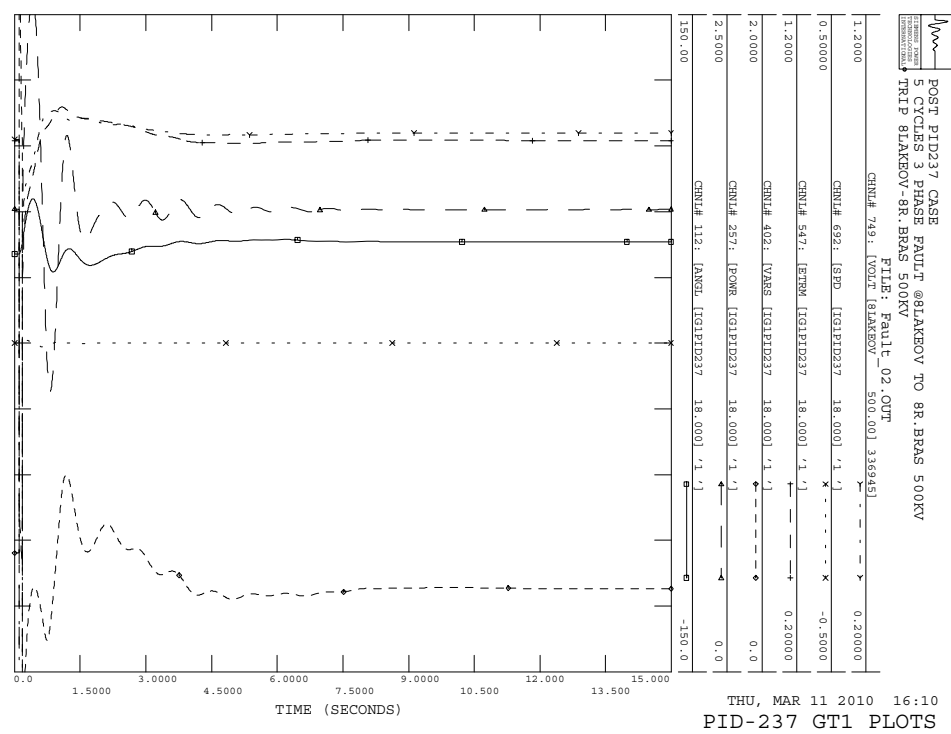


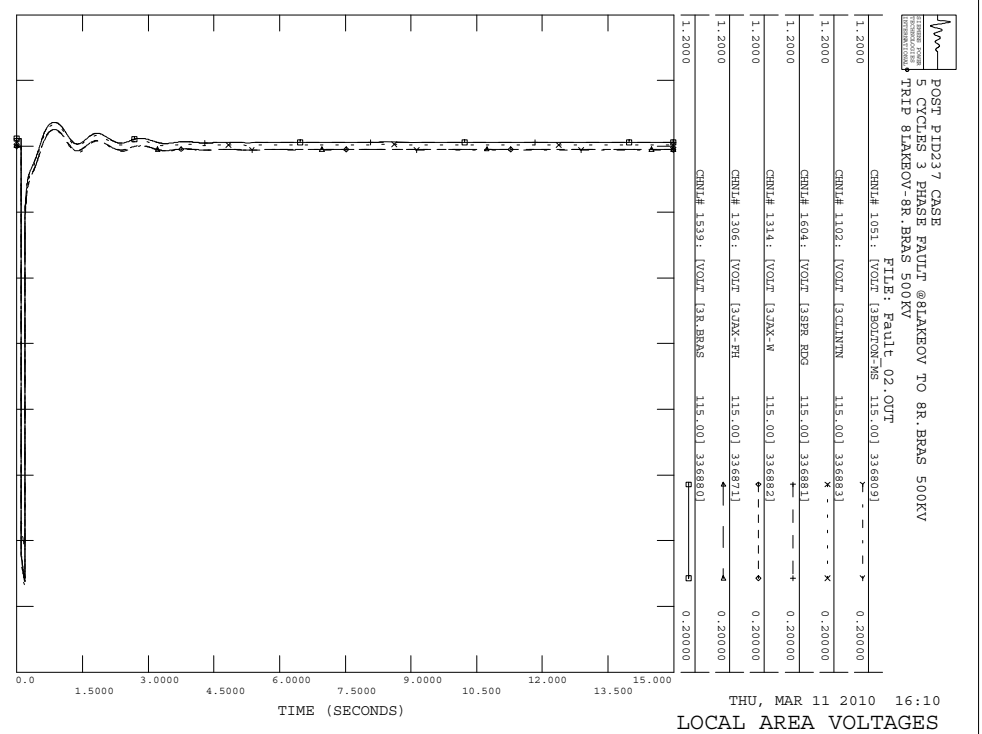
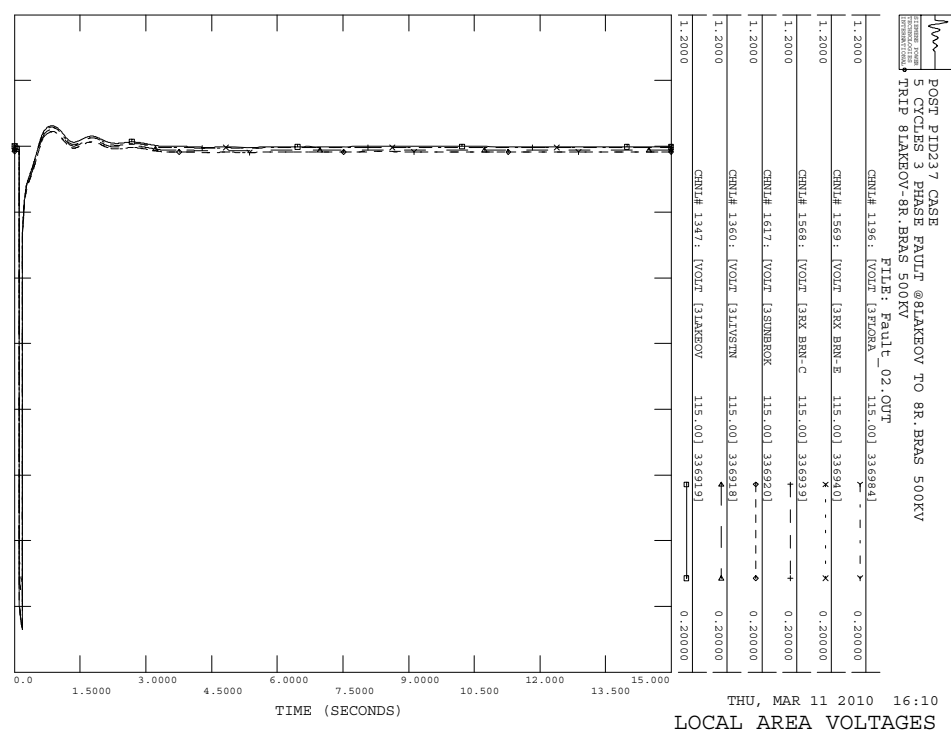
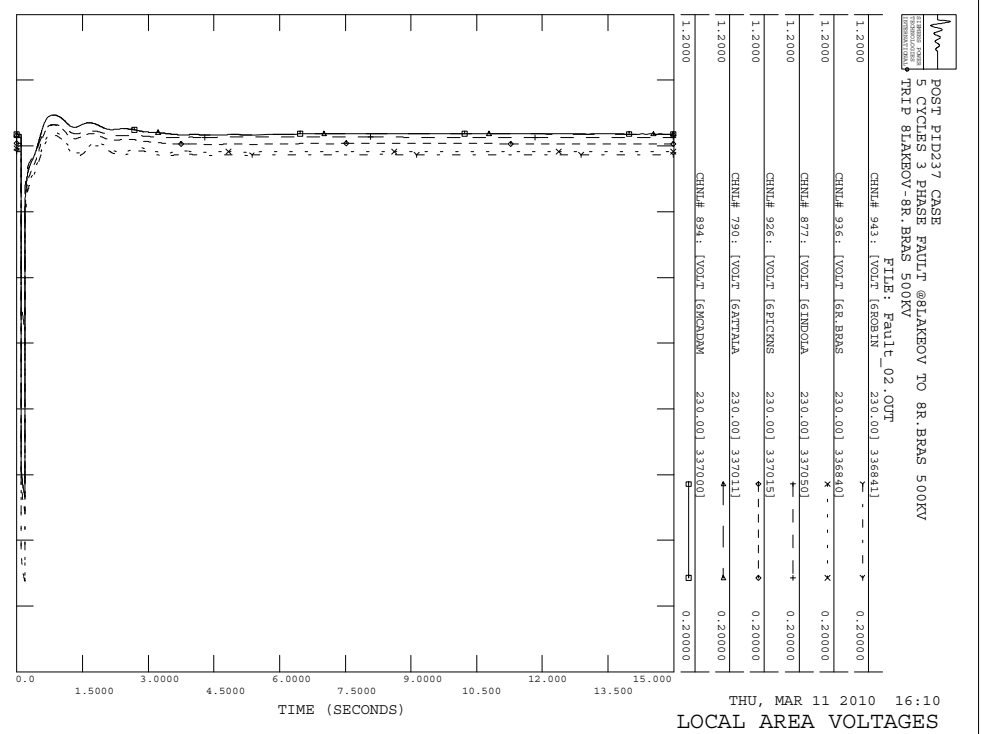
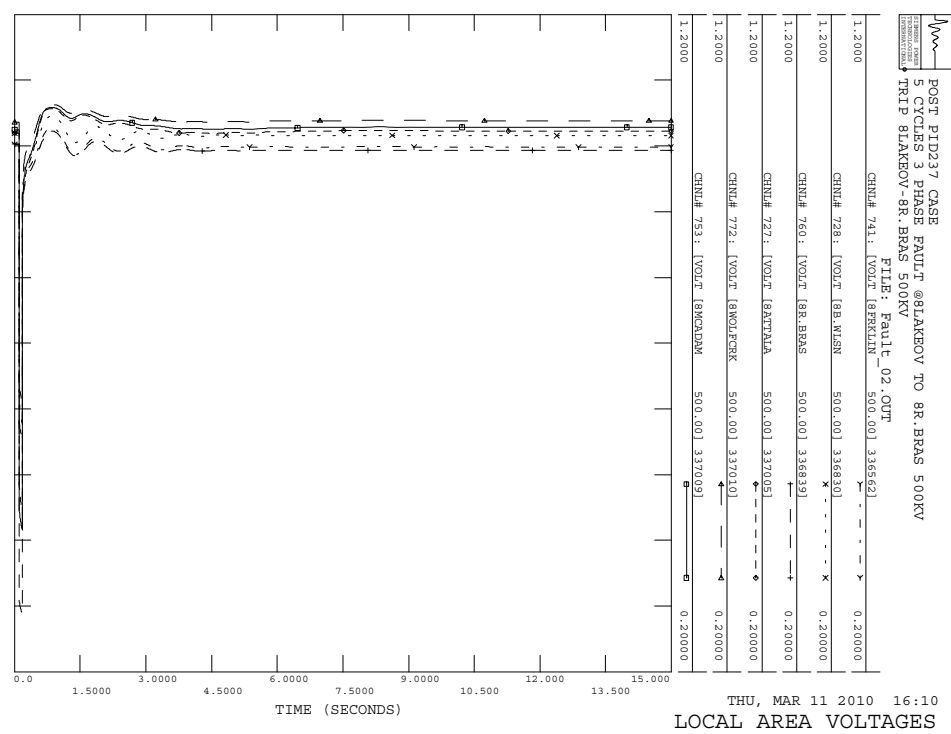


### **C.03 Fault\_02**

5 cycles 3 Phase Fault @8LAKEOV to 8R.BRAS 500kV  
Trip 8LAKEOV-8R.BRAS 500kV

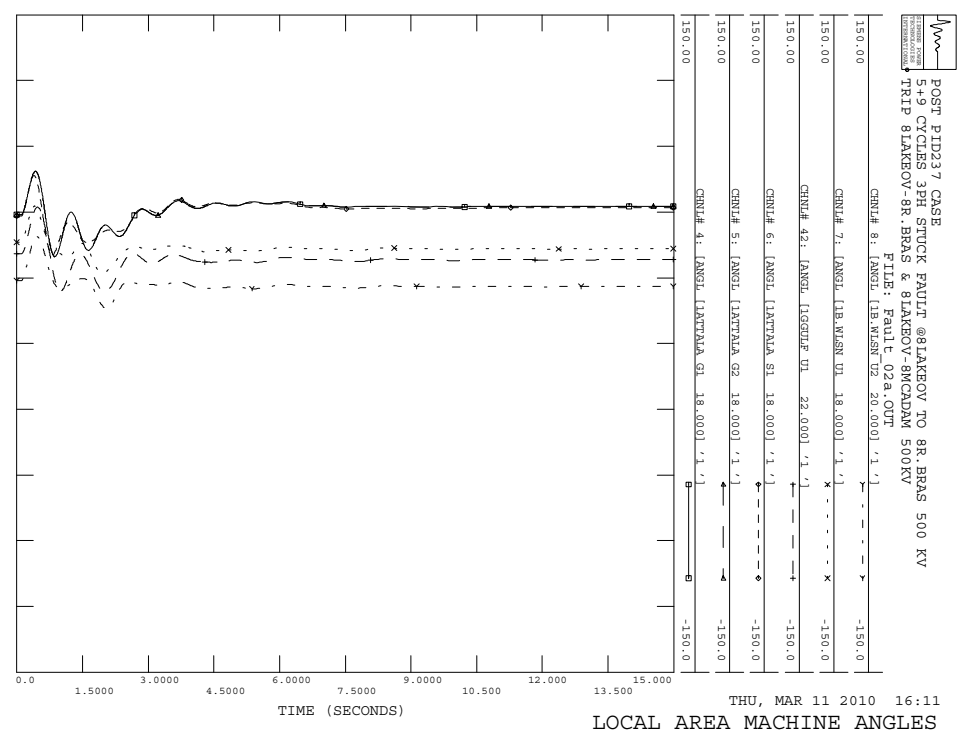
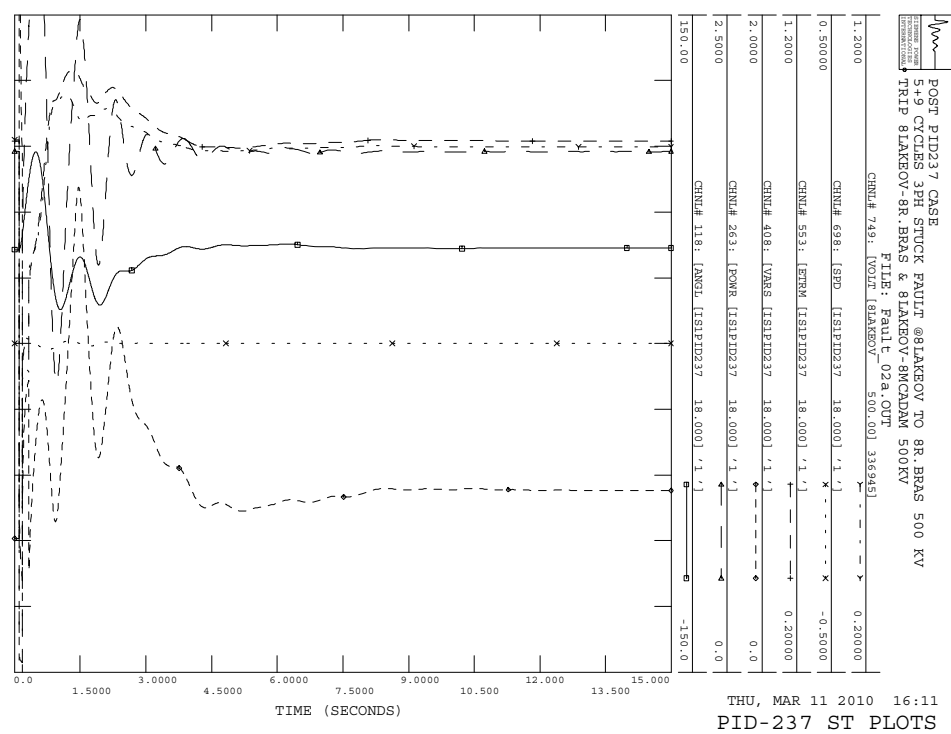
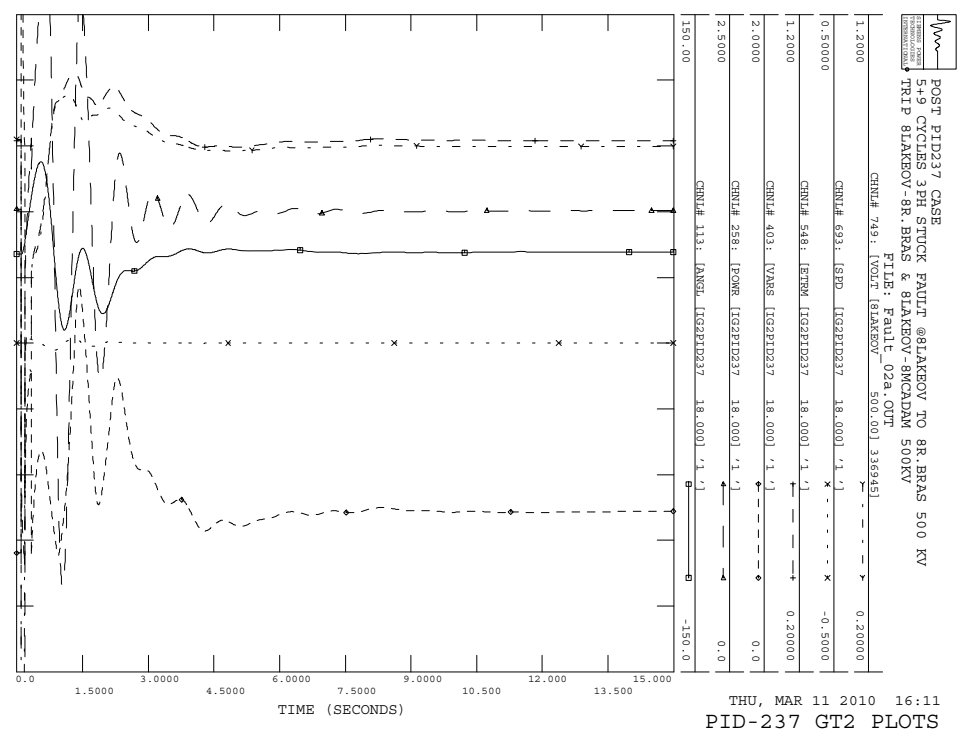
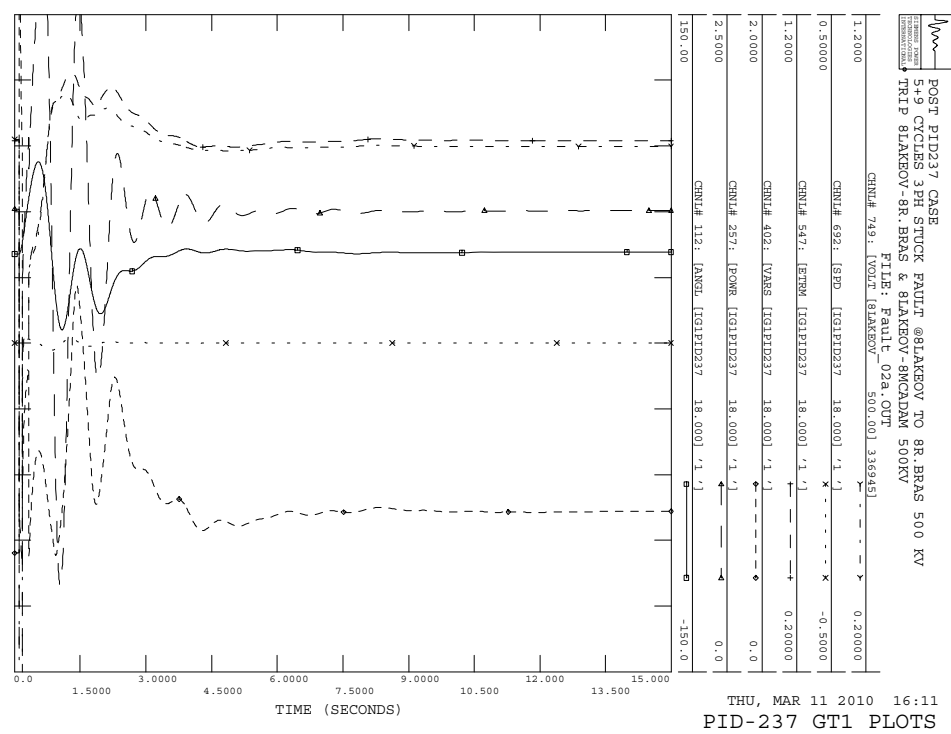


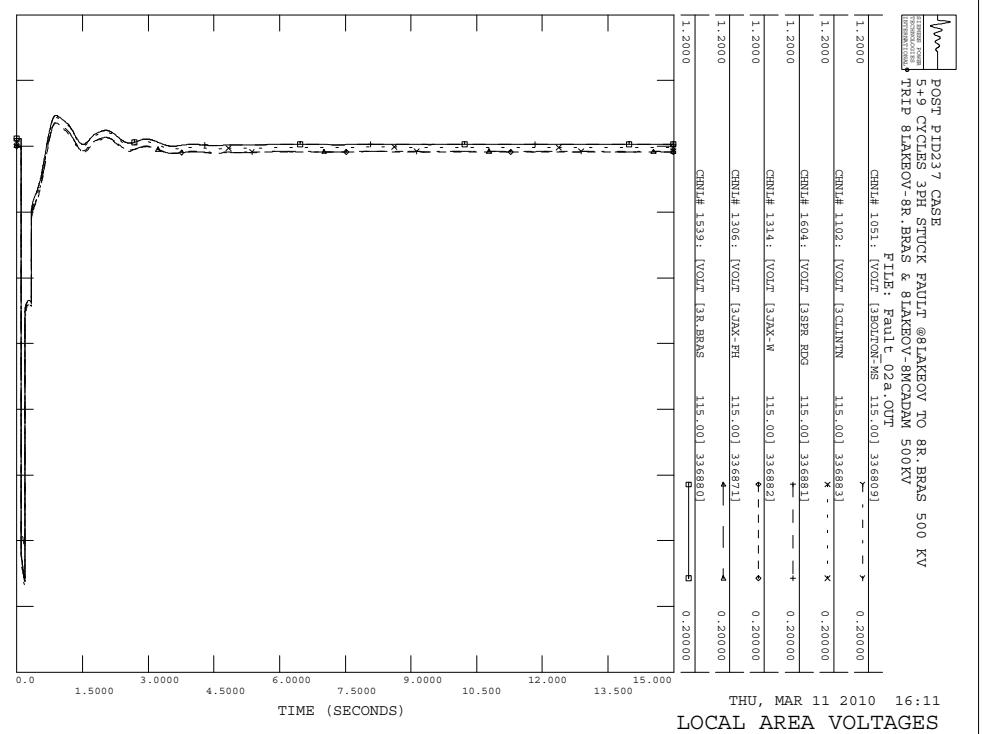
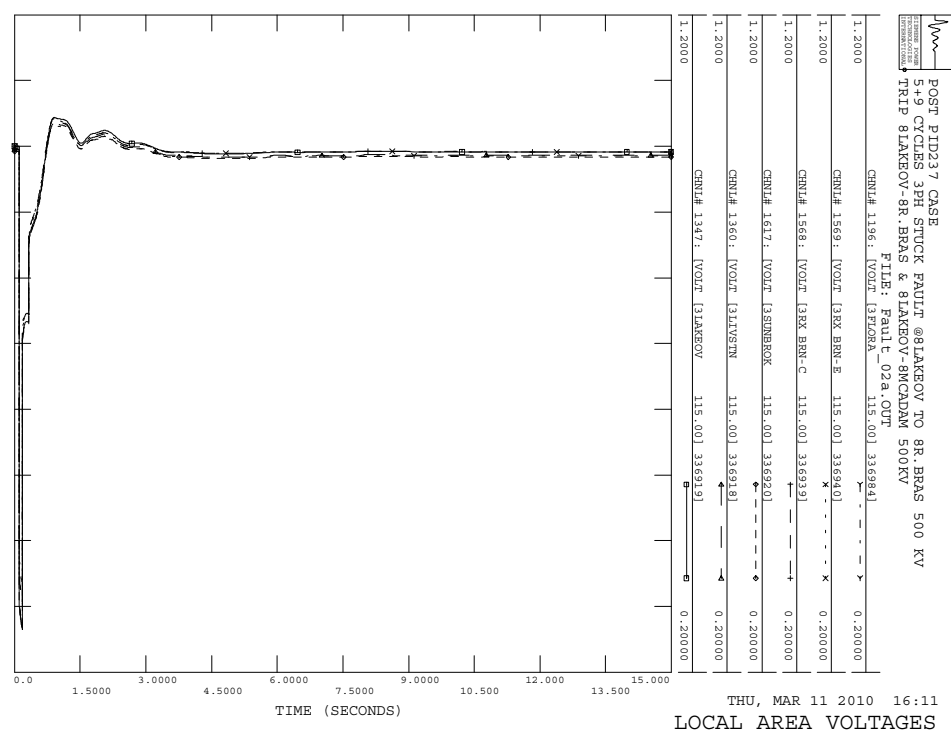
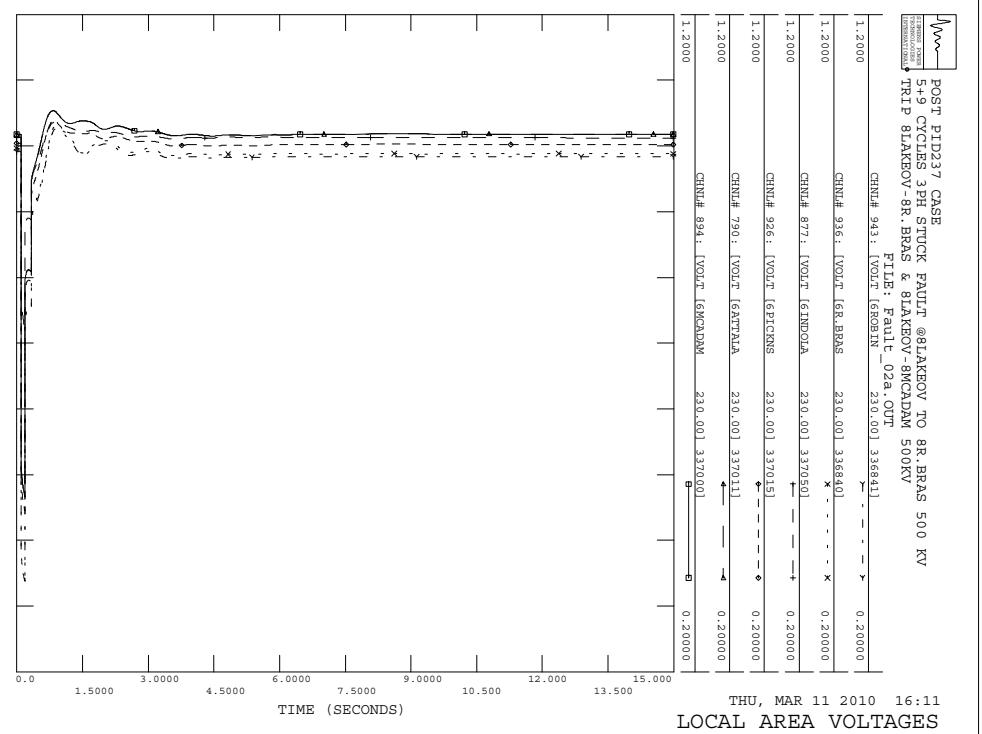
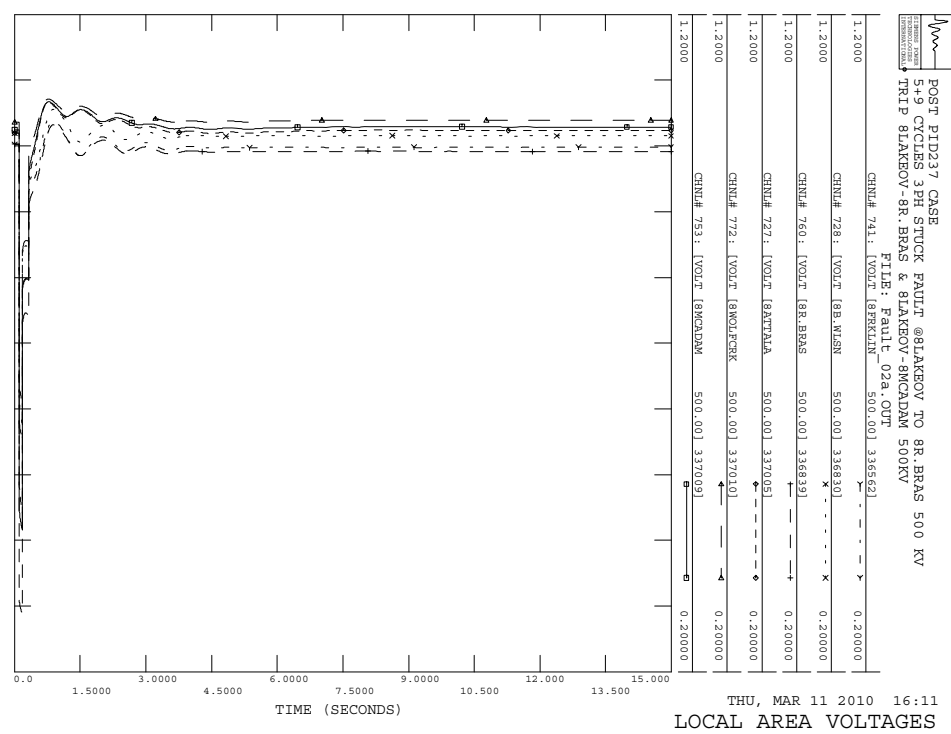




## **C.04 Fault\_02a**

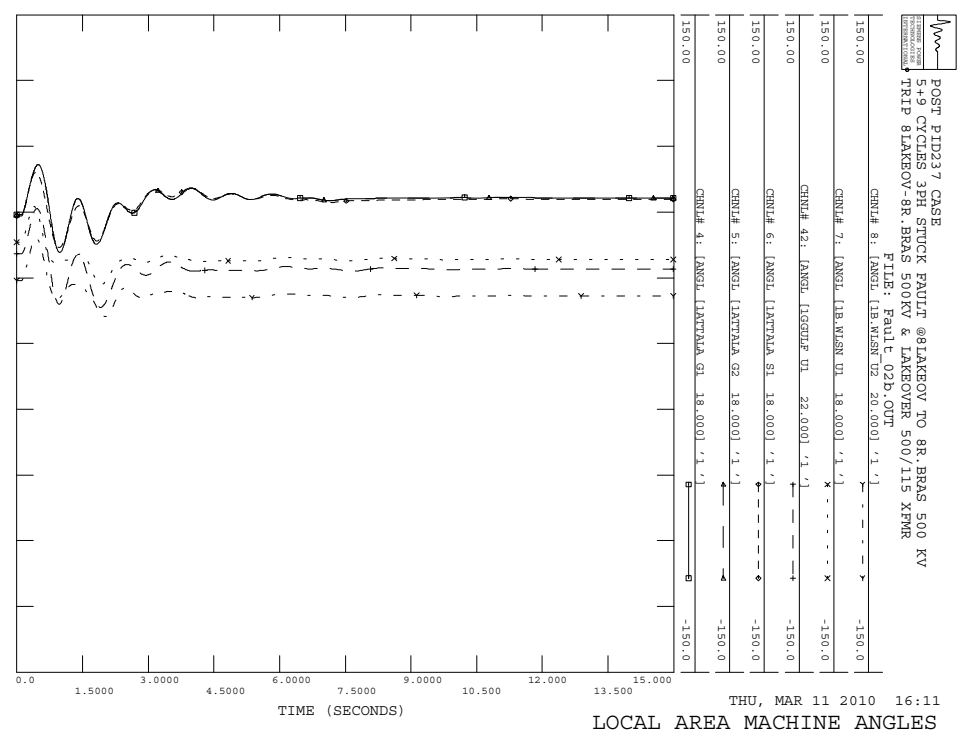
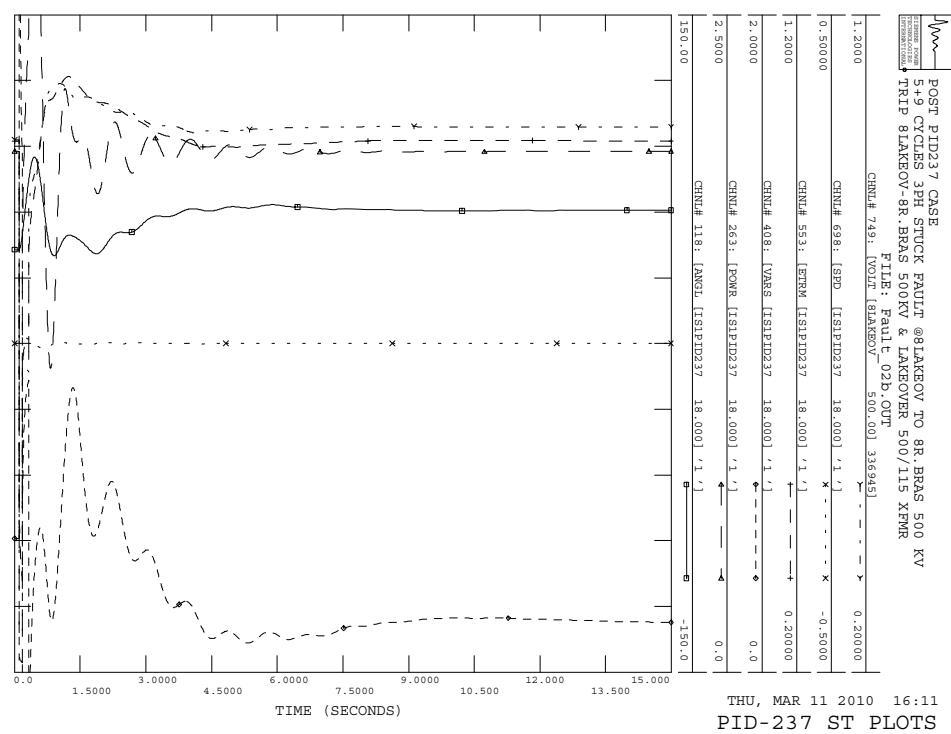
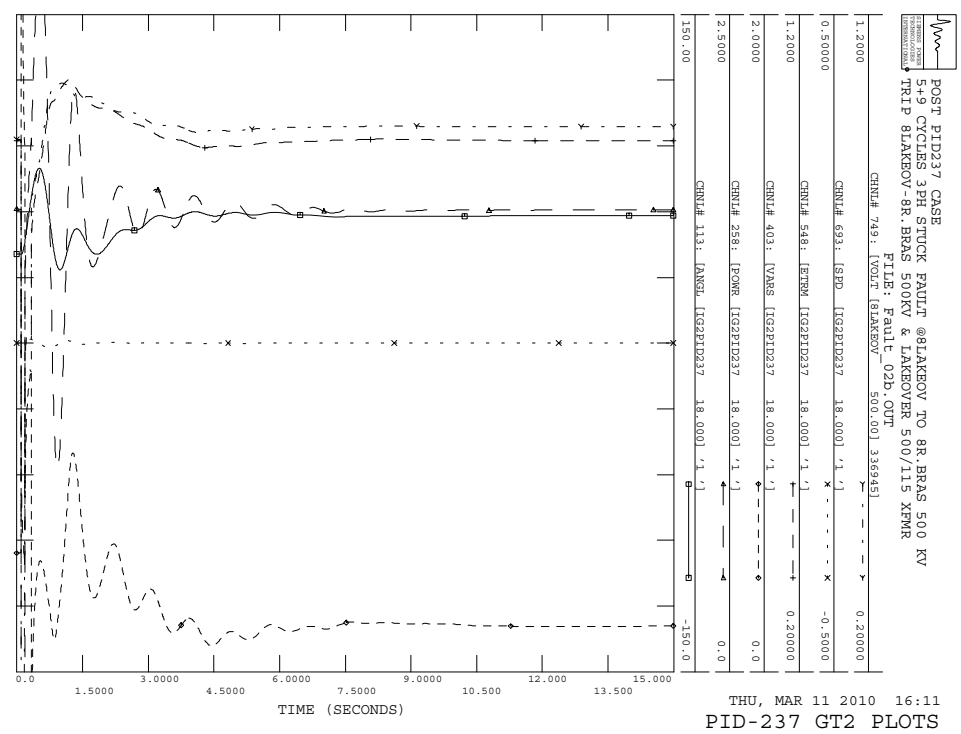
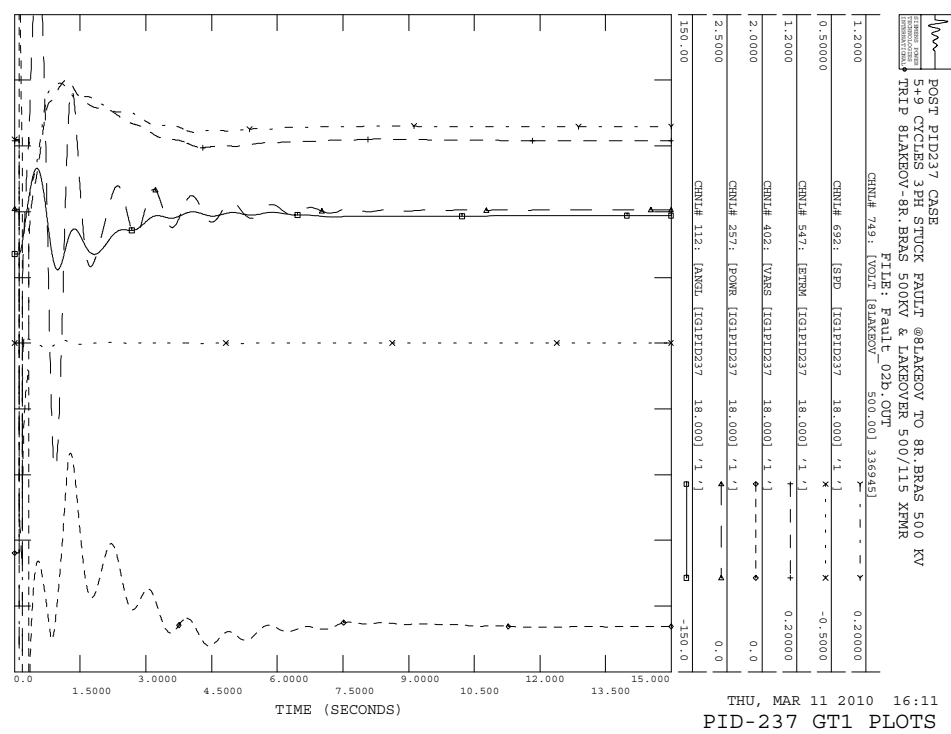
5+9 cycles 3Ph Stuck Fault @8LAKEOV to 8R.BRAS 500 kV  
Trip 8LAKEOV-8R.BRAS & 8LAKEOV-8MCADAM 500kV

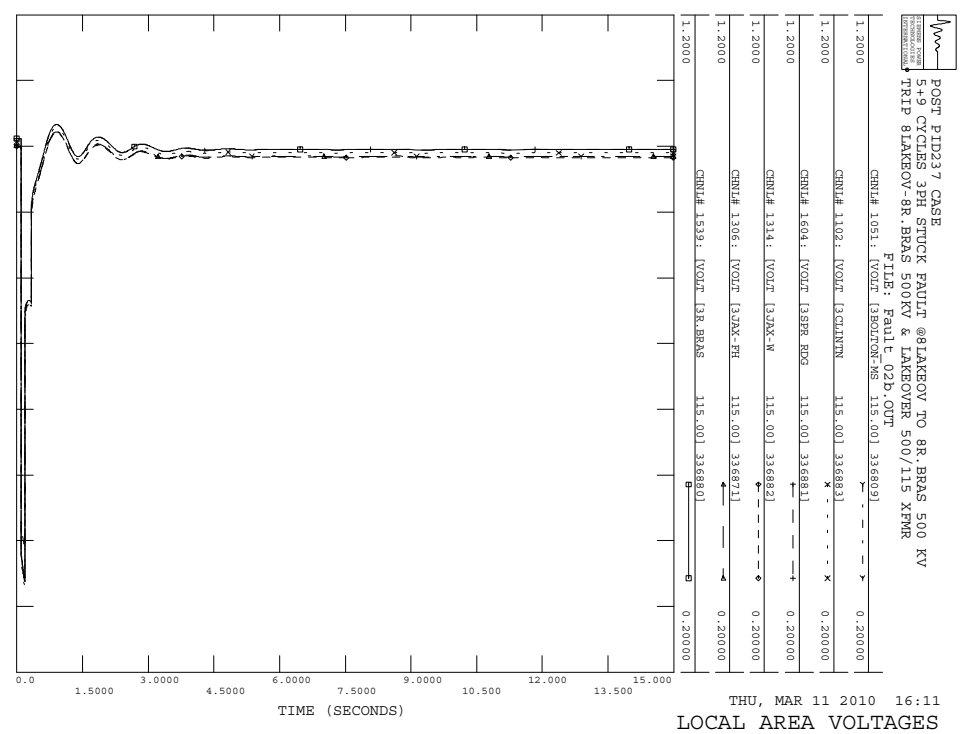
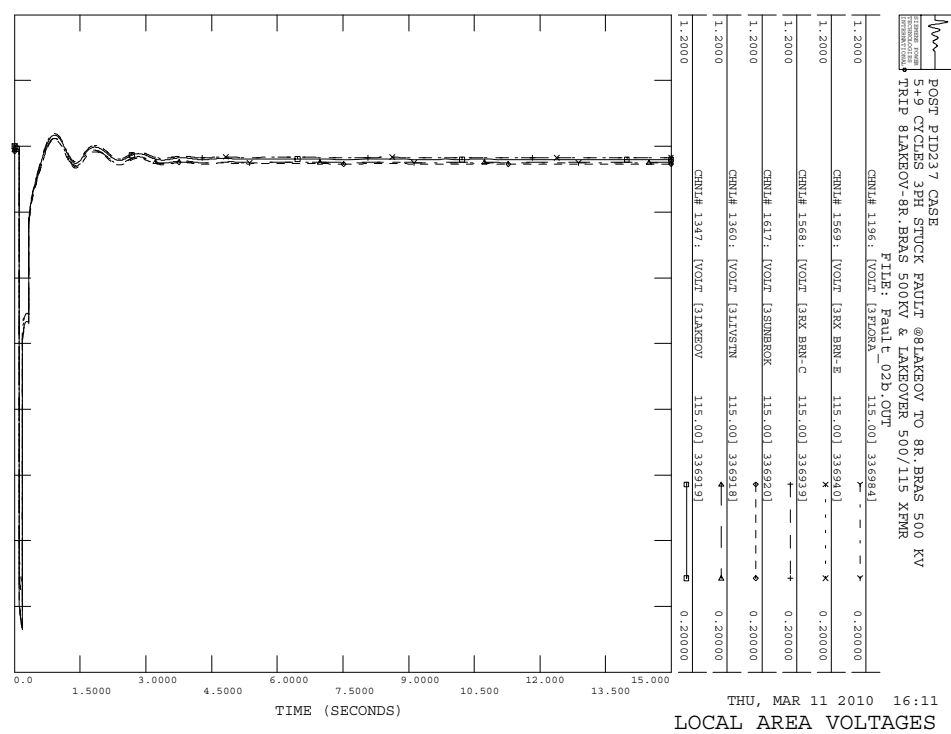
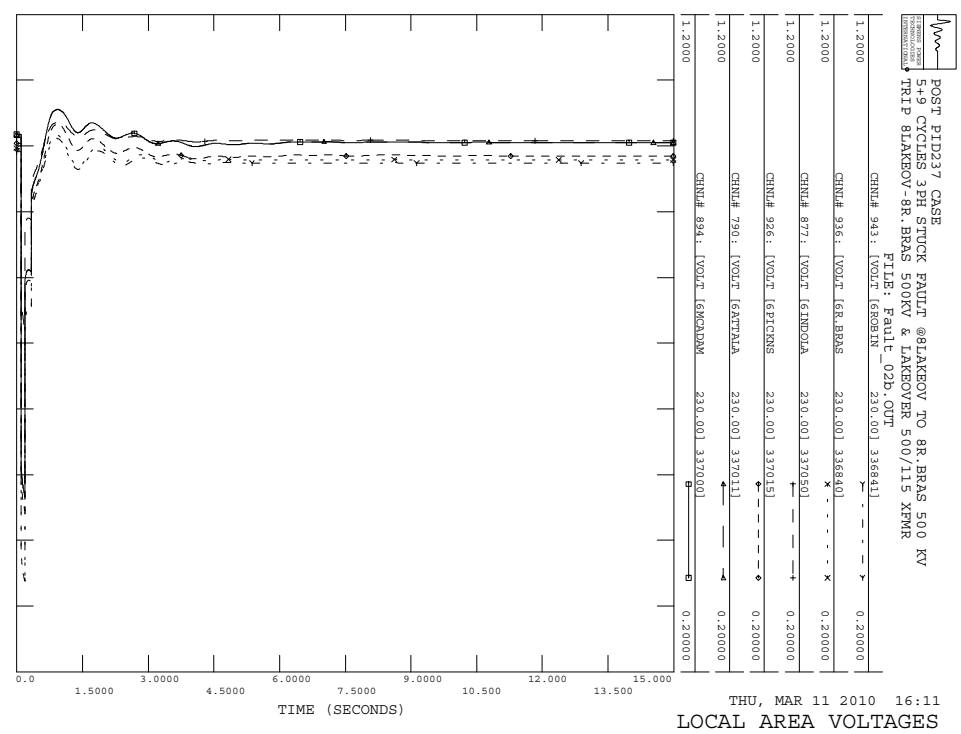
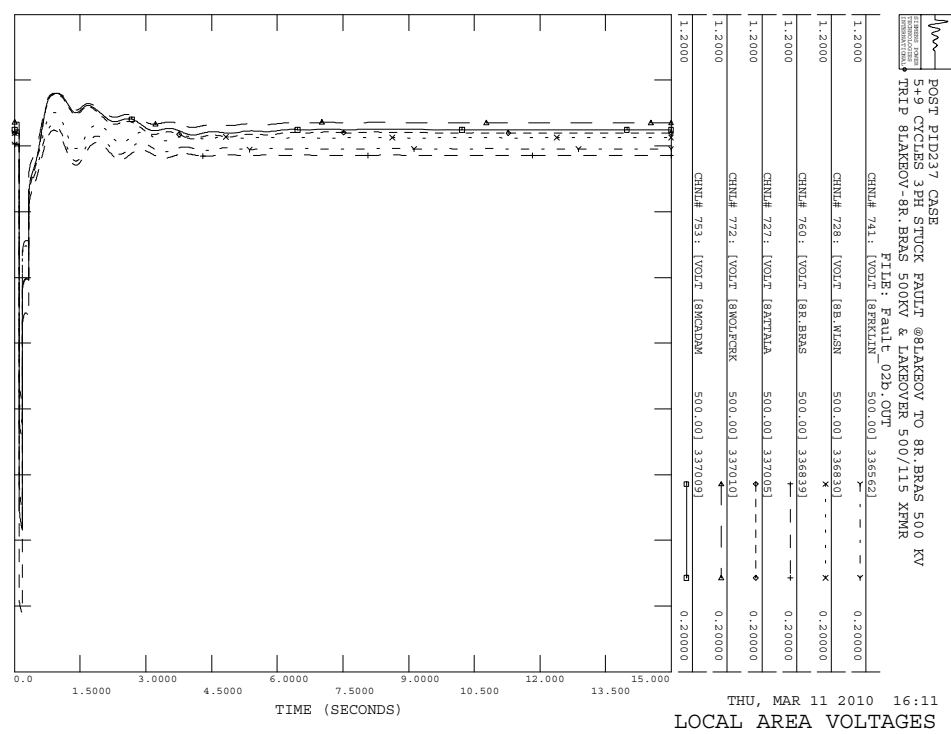




## **C.05 Fault\_02b**

5+9 cycles 3Ph Stuck Fault @8LAKEOV to 8R.BRAS 500 kV  
Trip 8LAKEOV-8R.BRAS 500kV & Lakeover 500/115 Xfmr

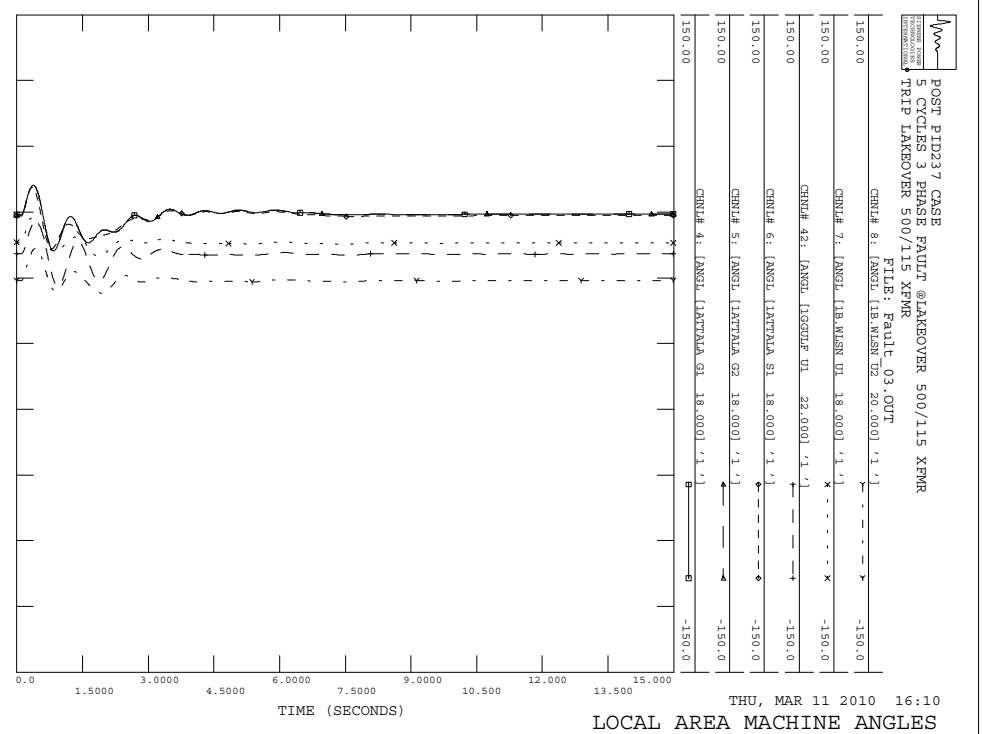
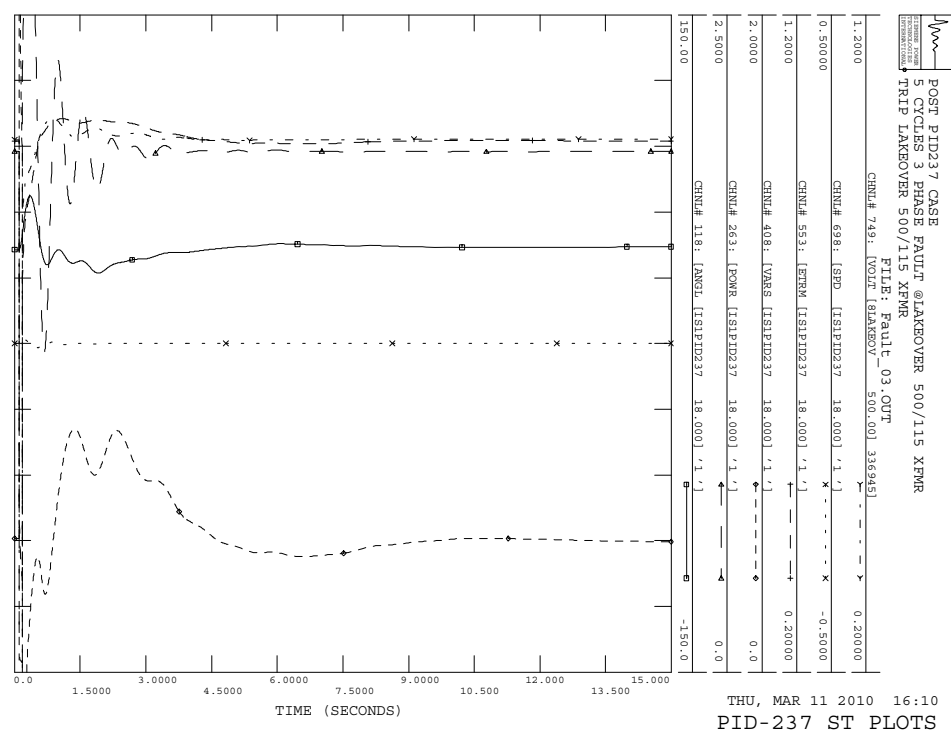
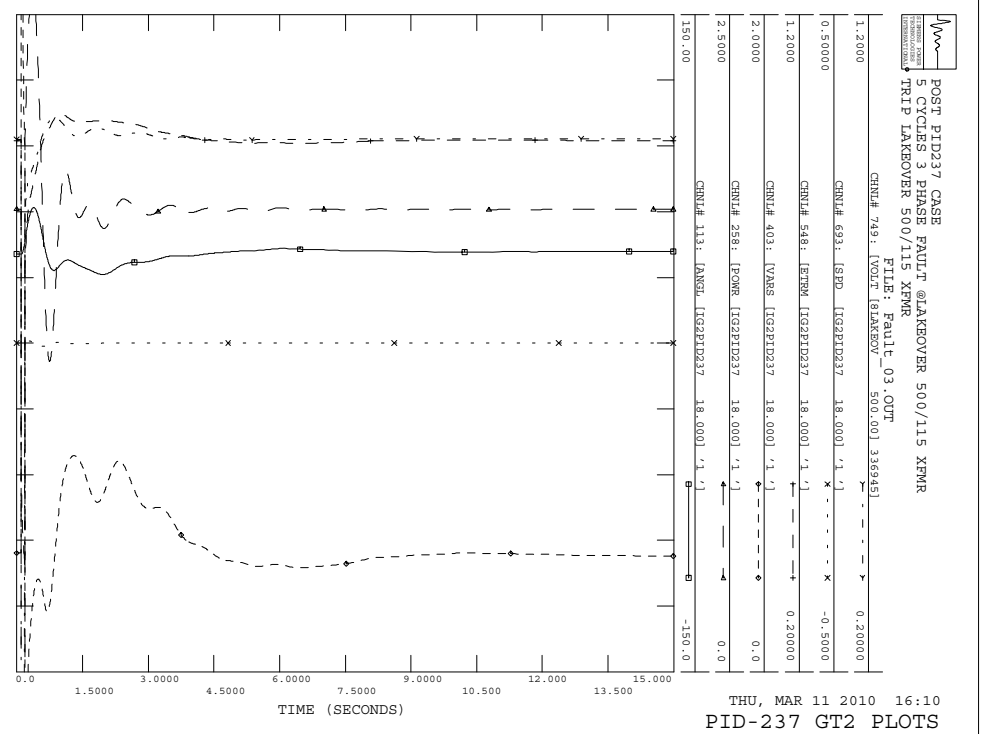
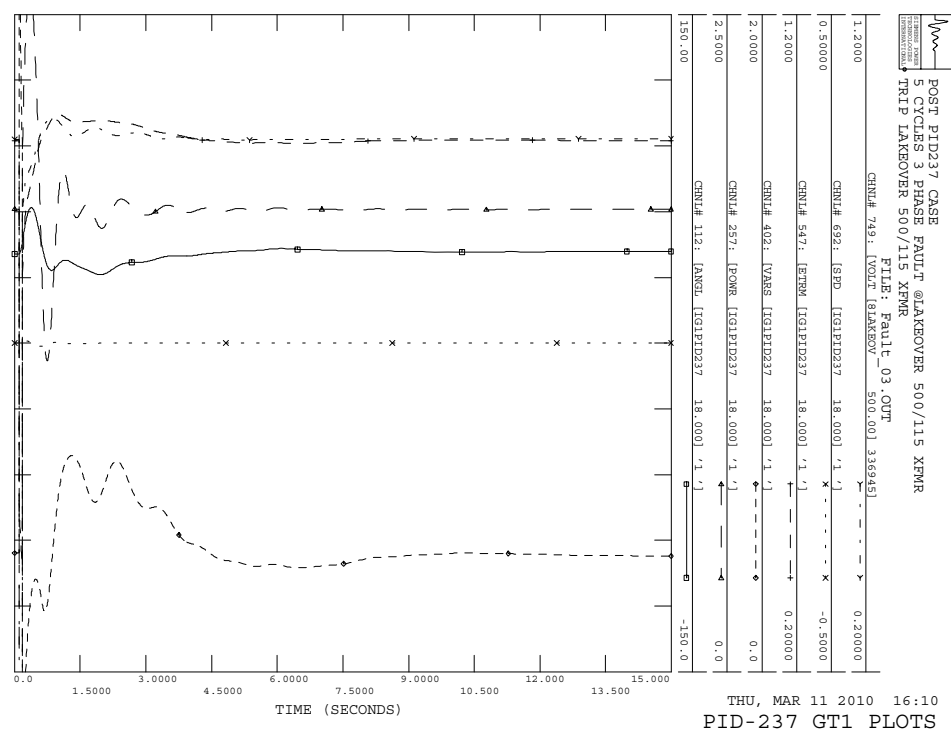


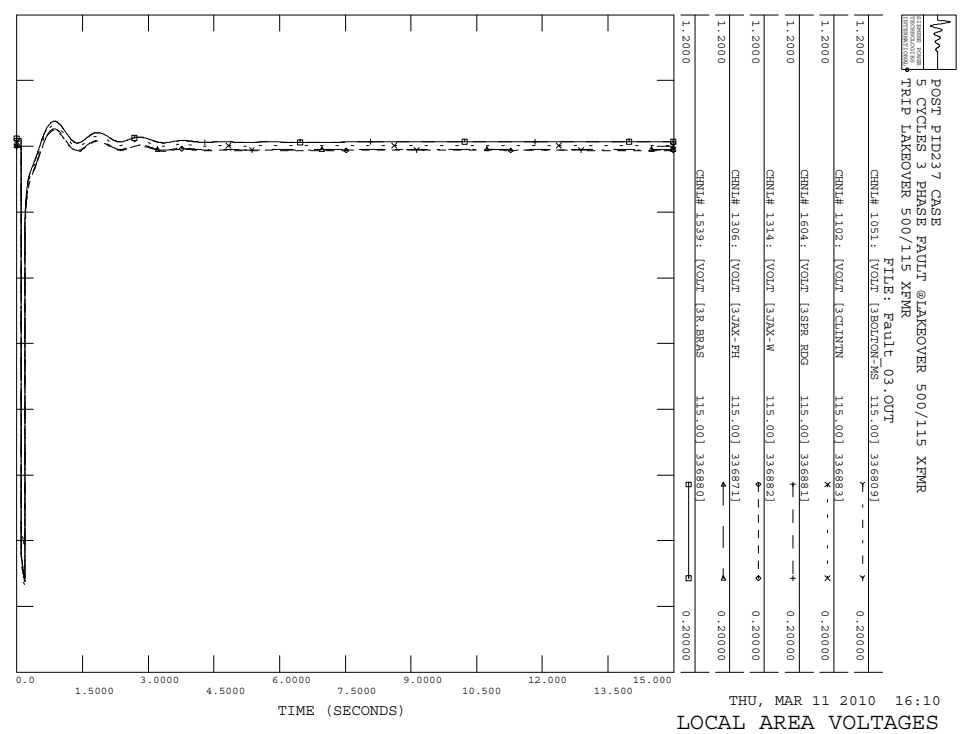
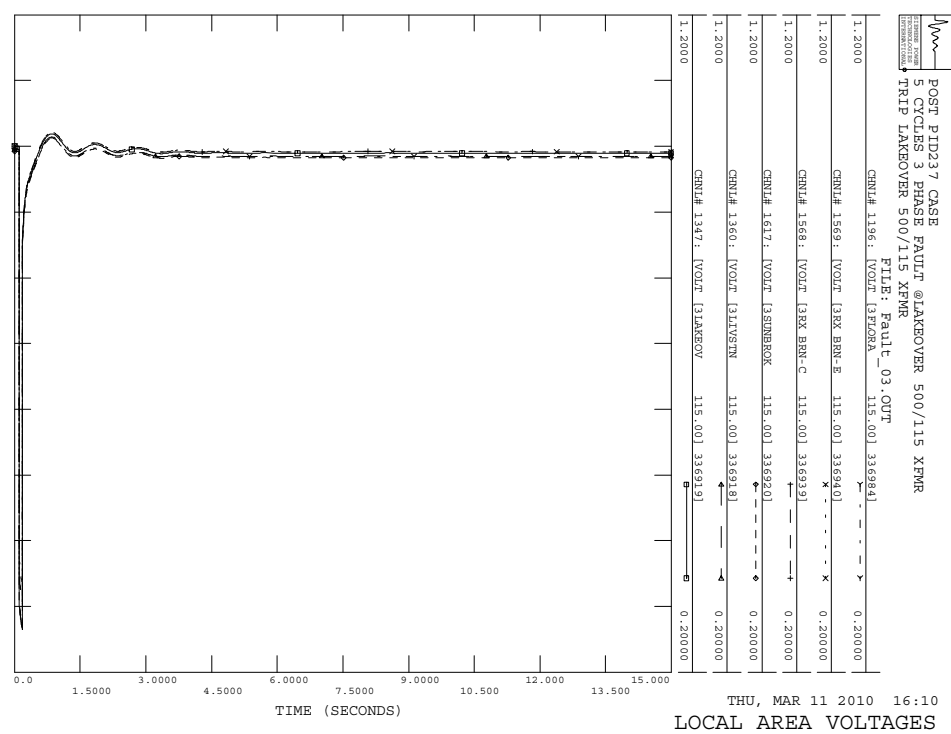
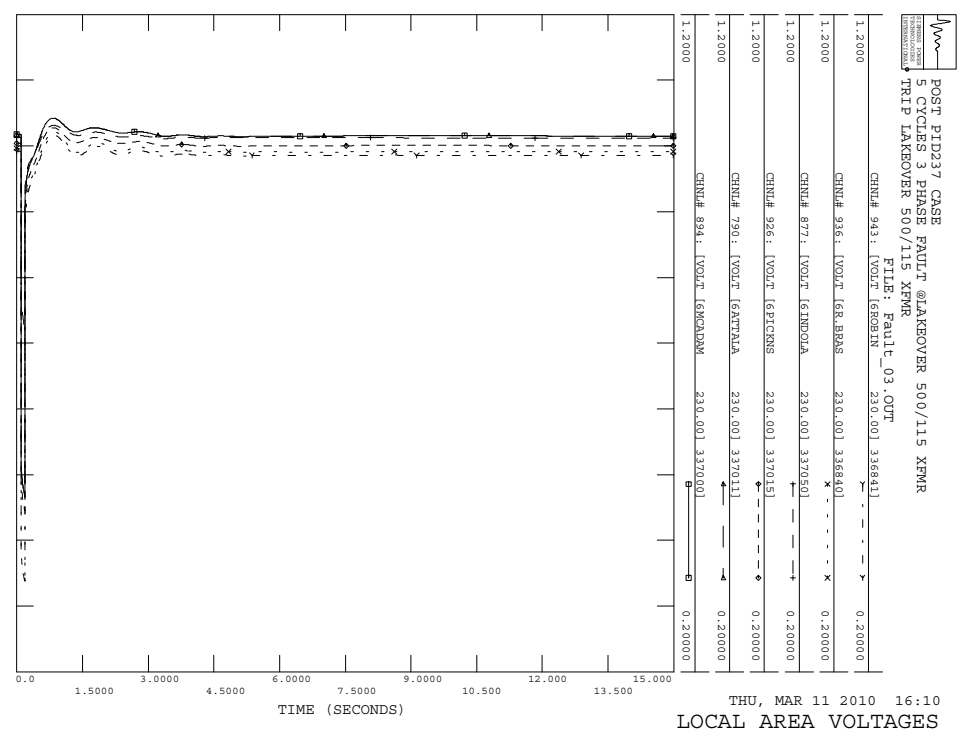
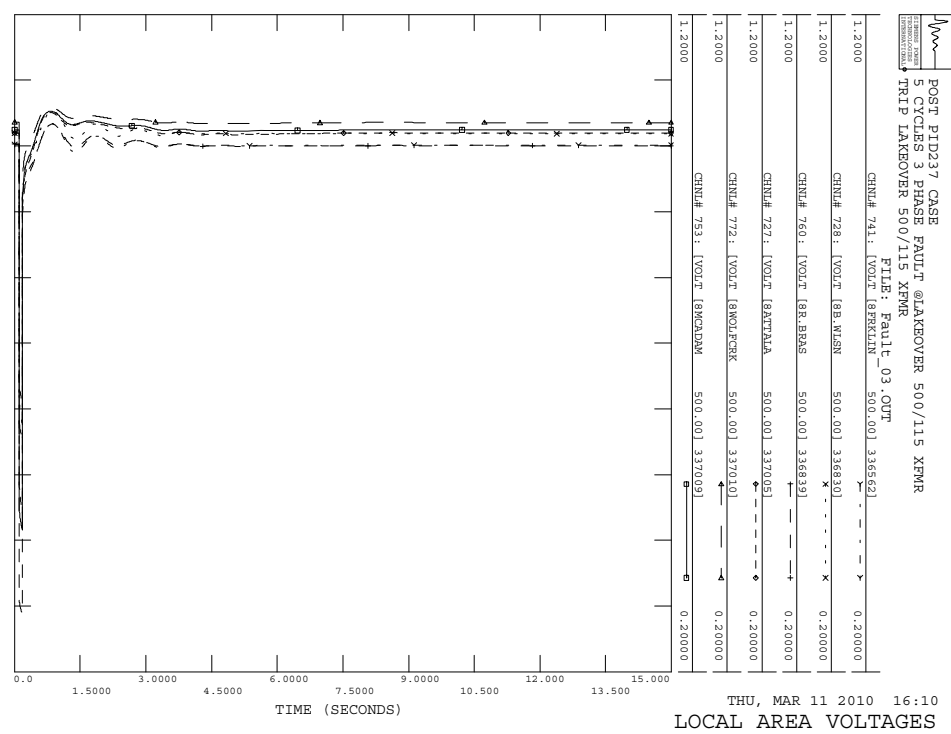




## **C.06 Fault\_03**

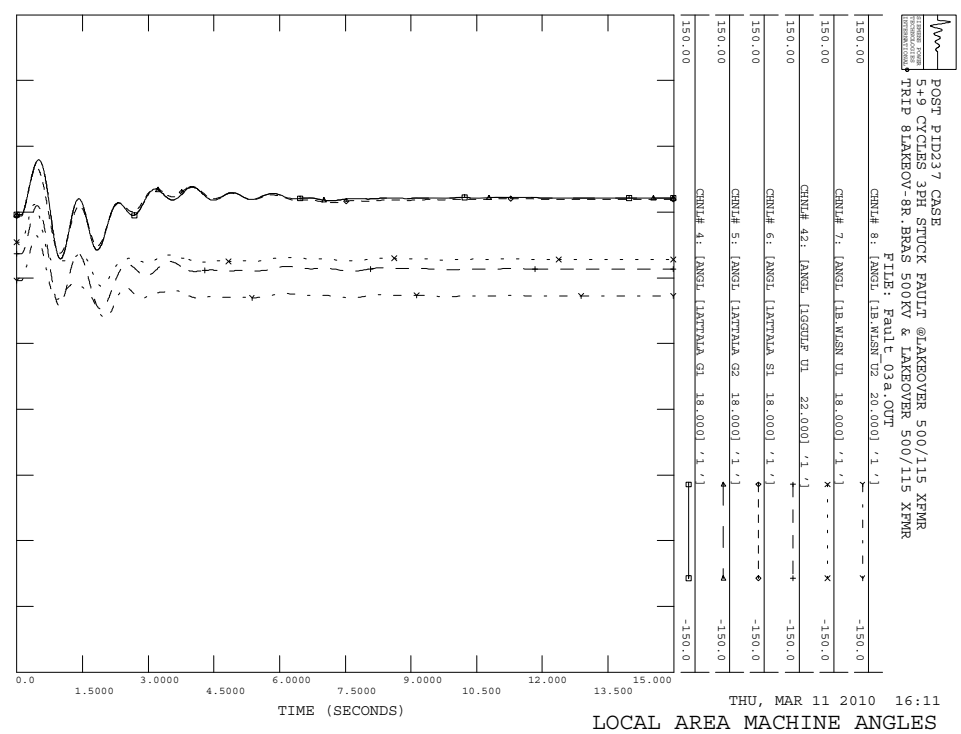
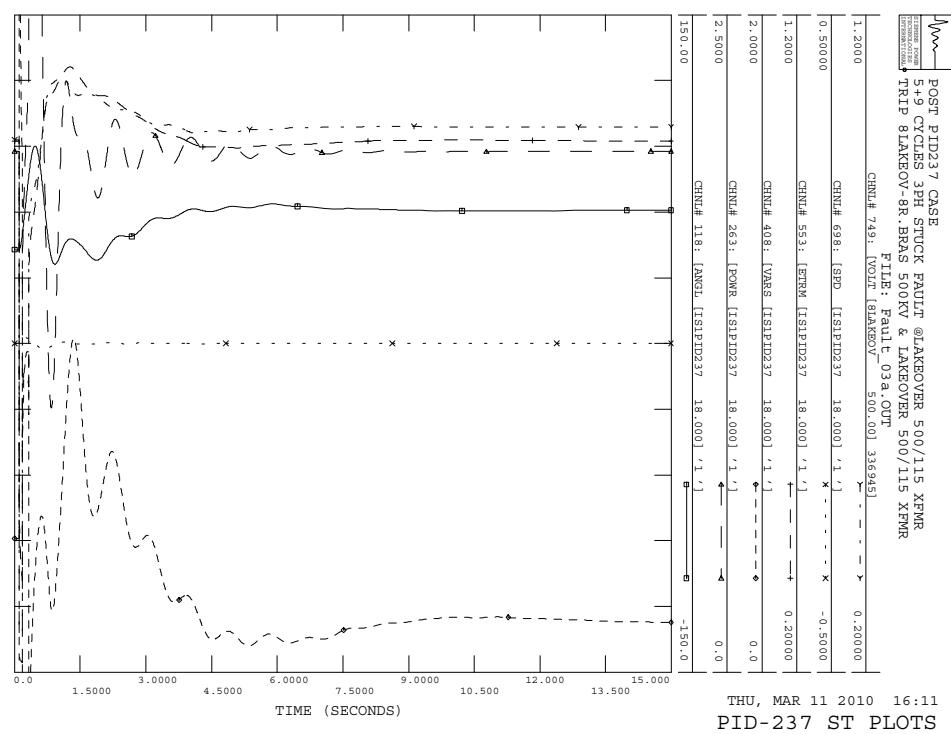
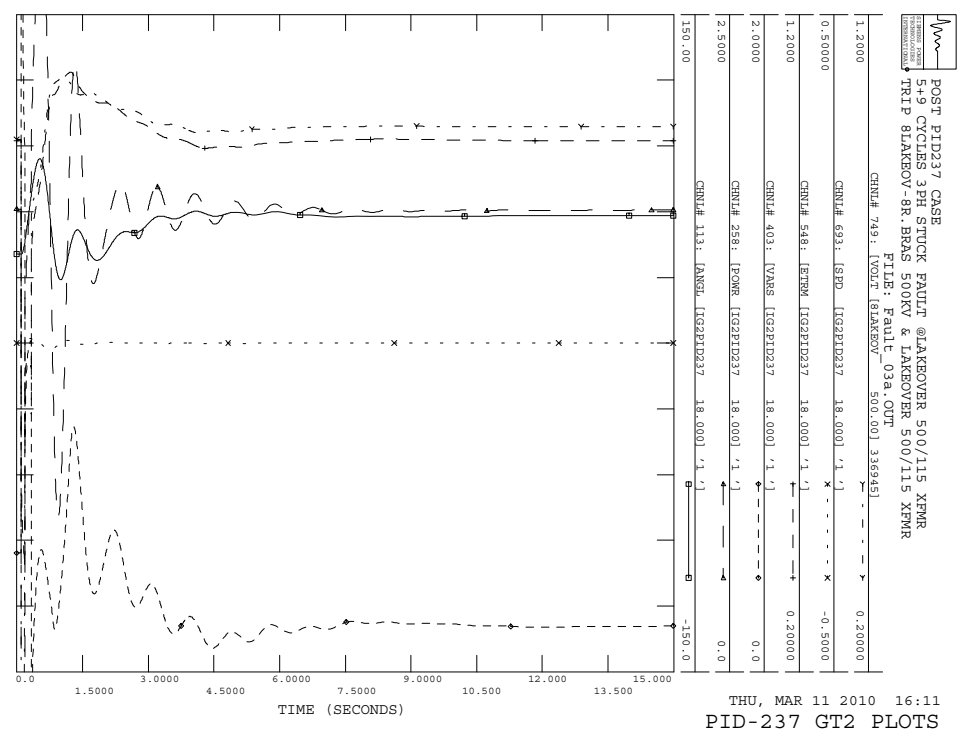
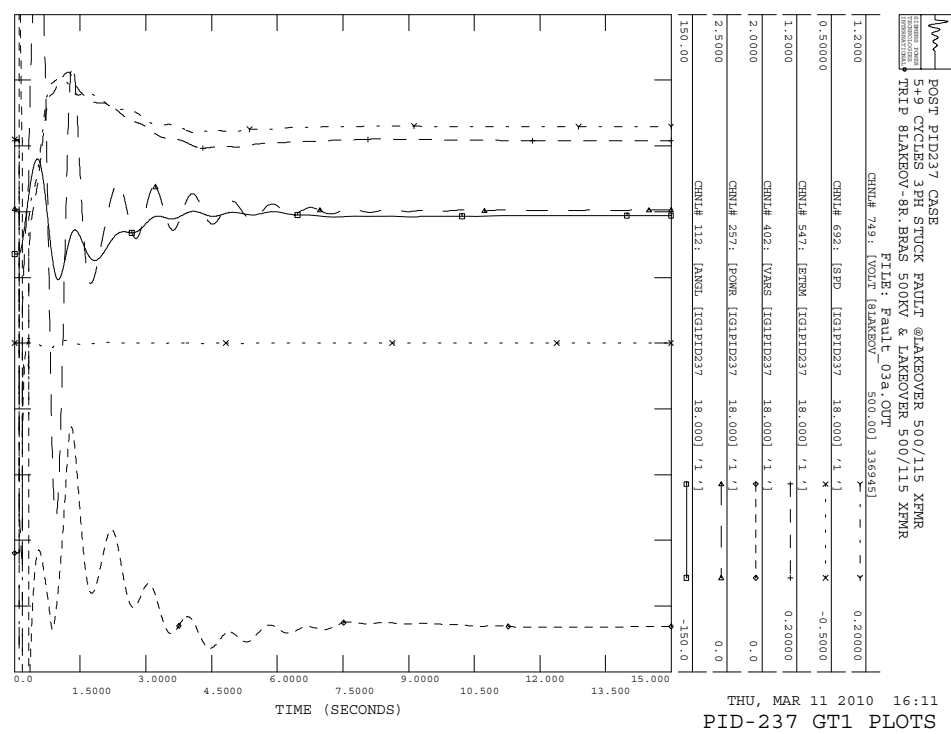
5 cycles 3 Phase Fault @Lakeover 500/115 Xfmr  
Trip Lakeover 500/115 Xfmr

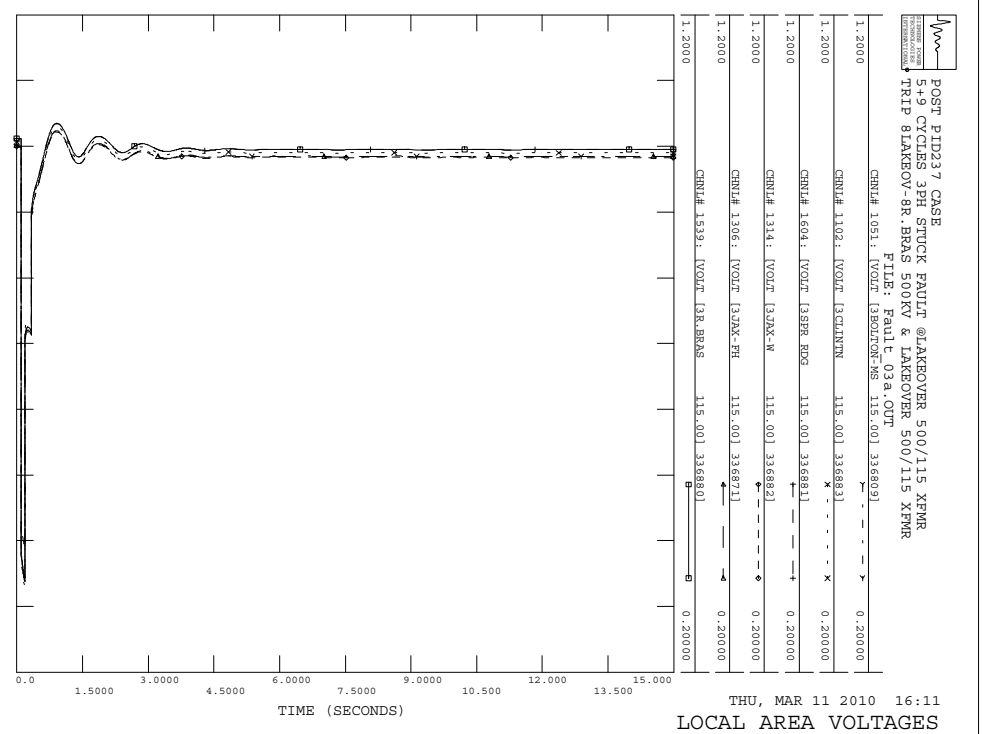
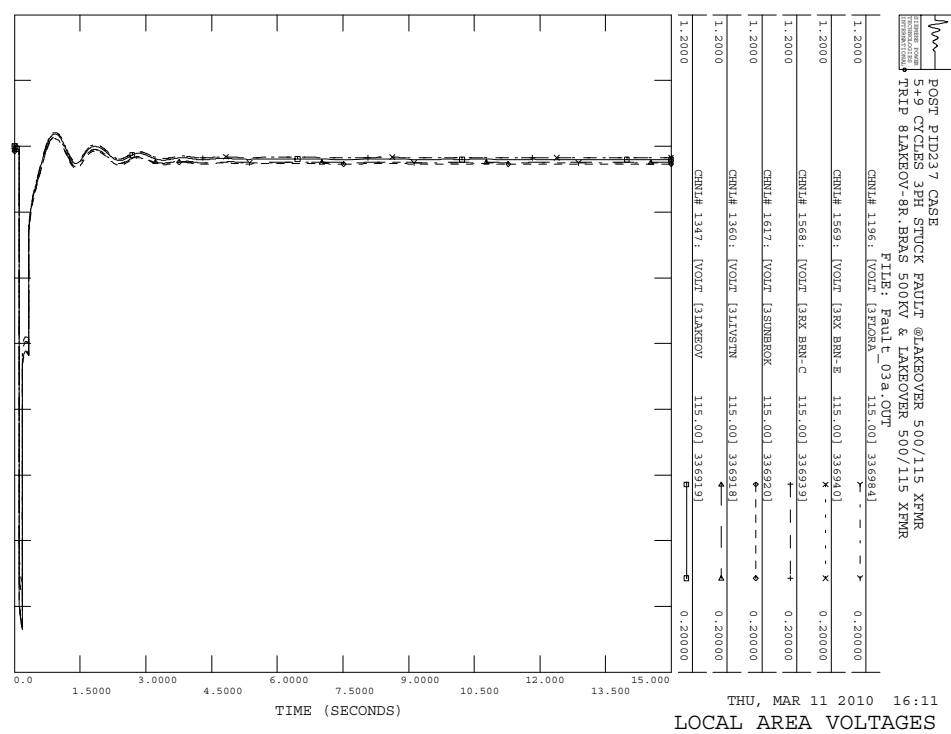
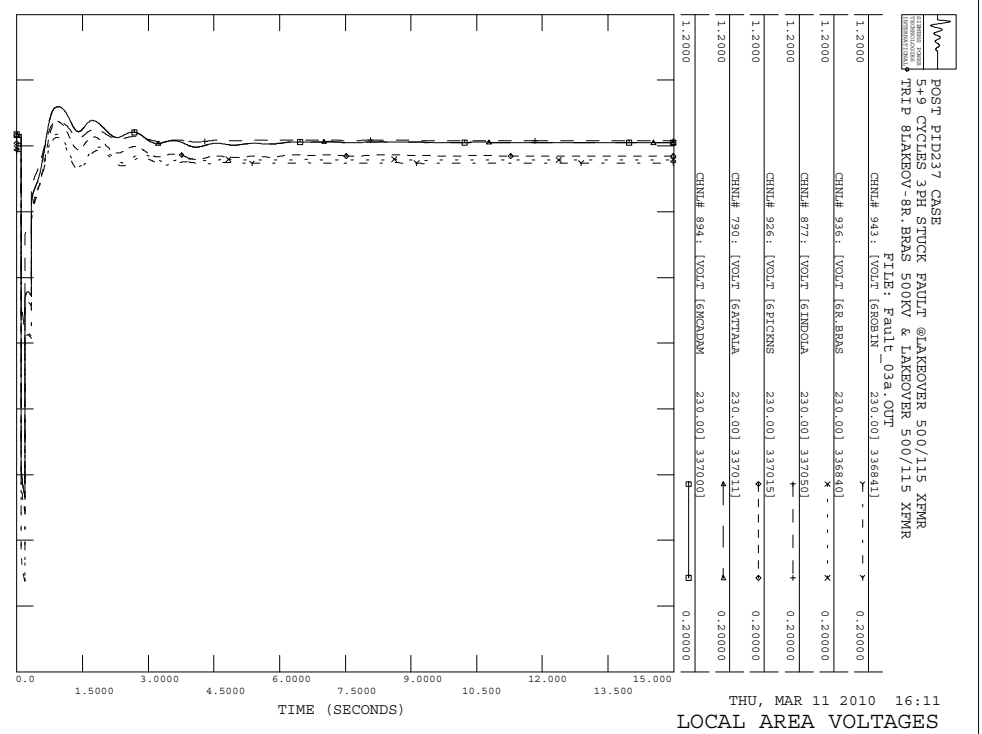
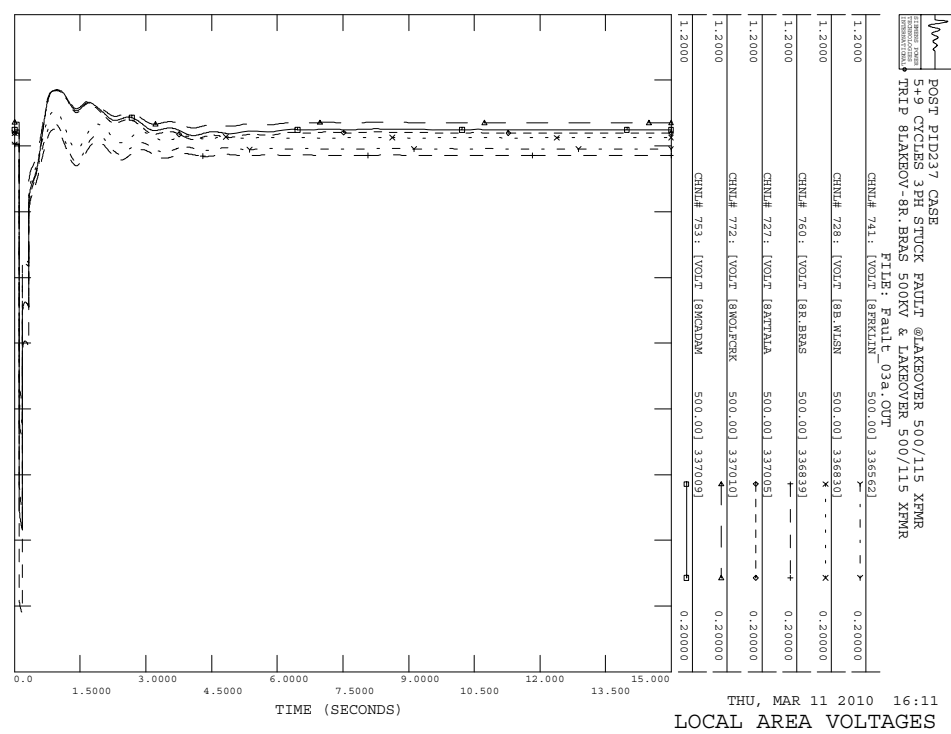




## **C.07 Fault\_03a**

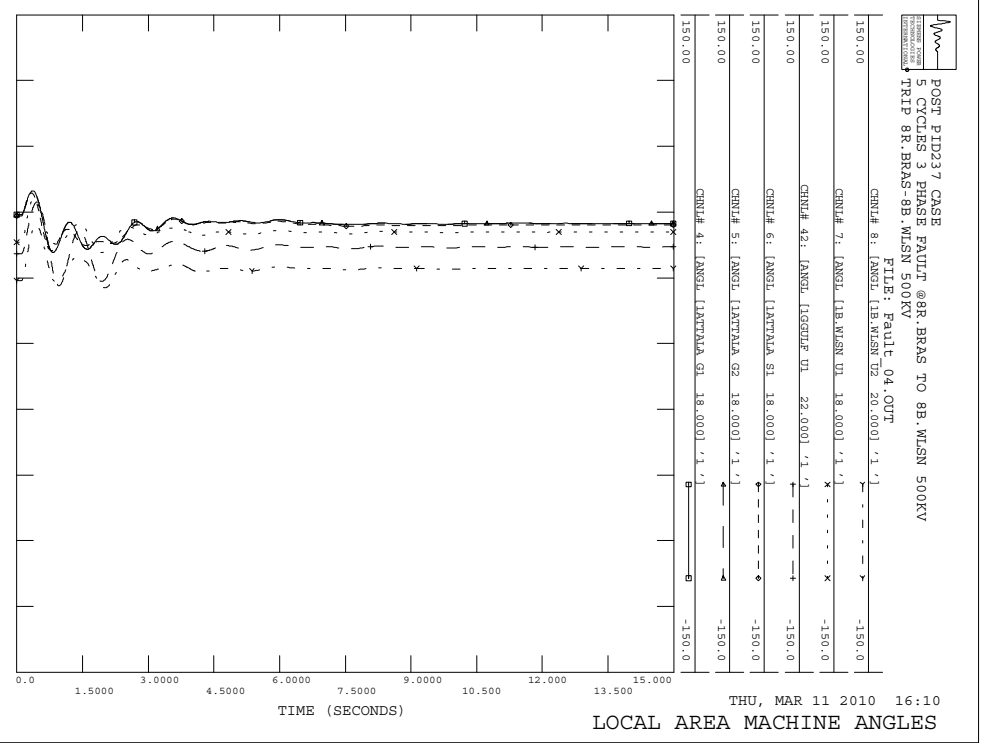
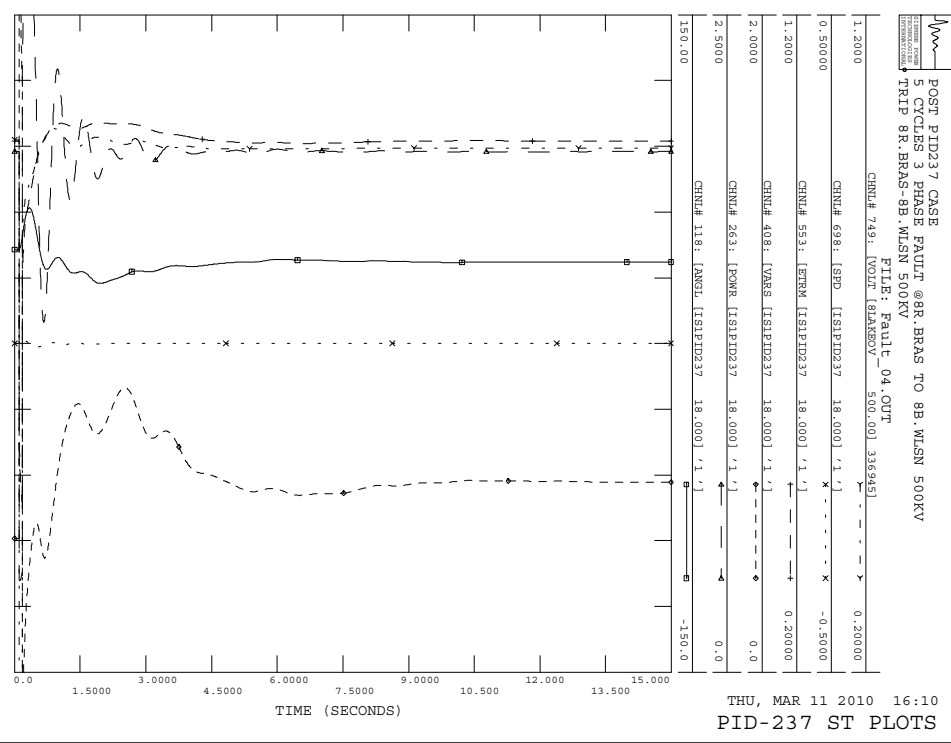
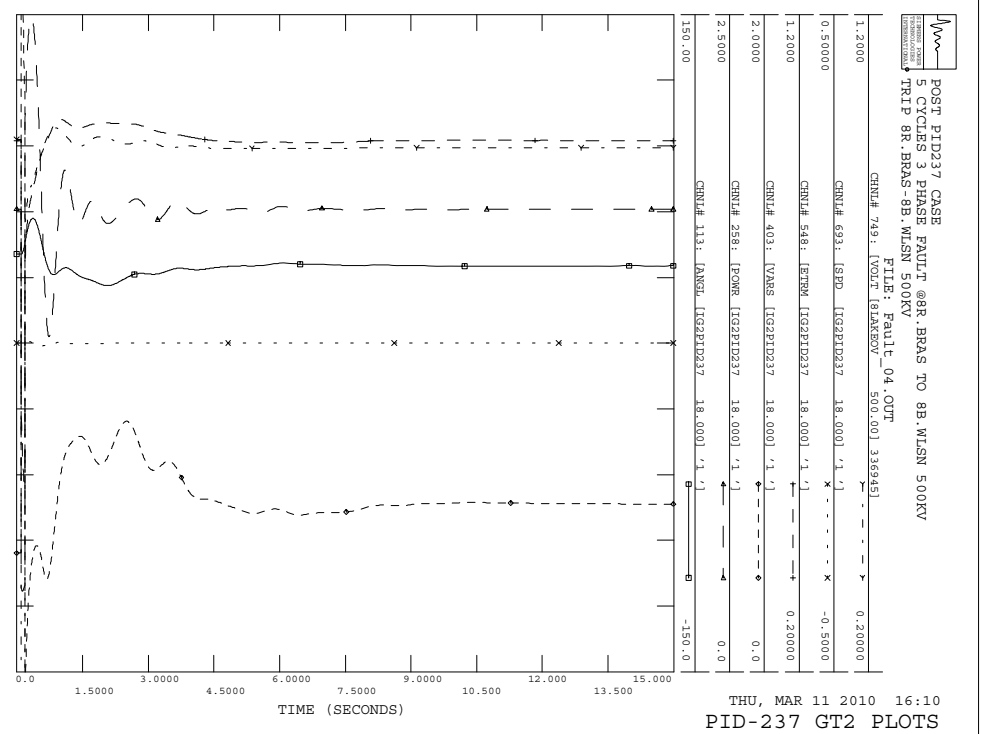
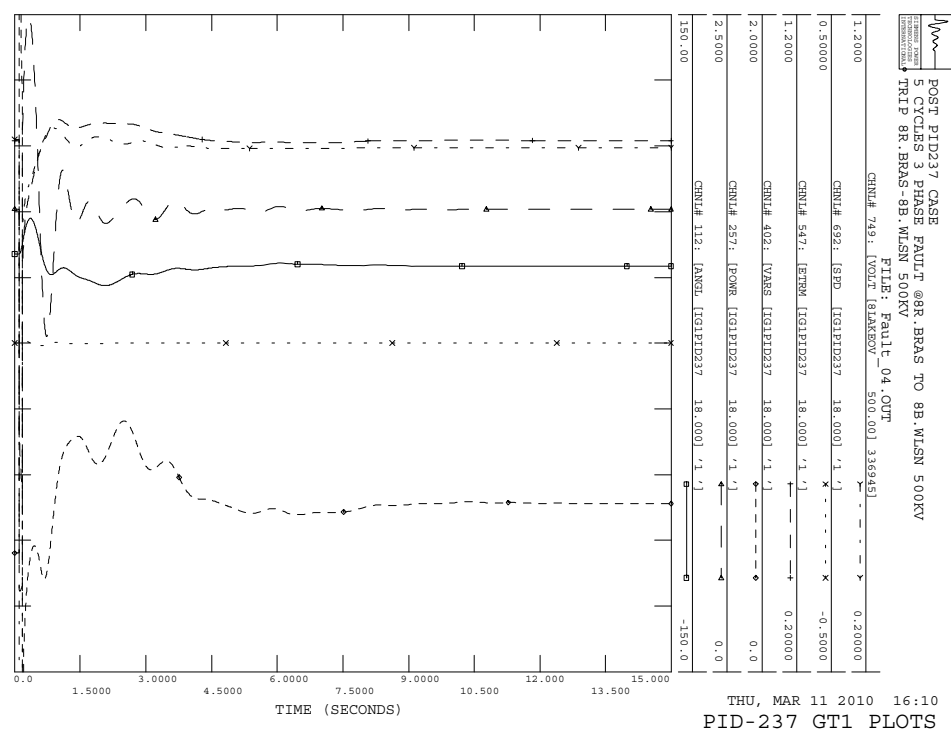
5+9 cycles 3Ph Stuck Fault @Lakeover 500/115 Xfmr  
Trip 8LAKEOV-8R.BRAS 500kV & Lakeover 500/115 Xfmr



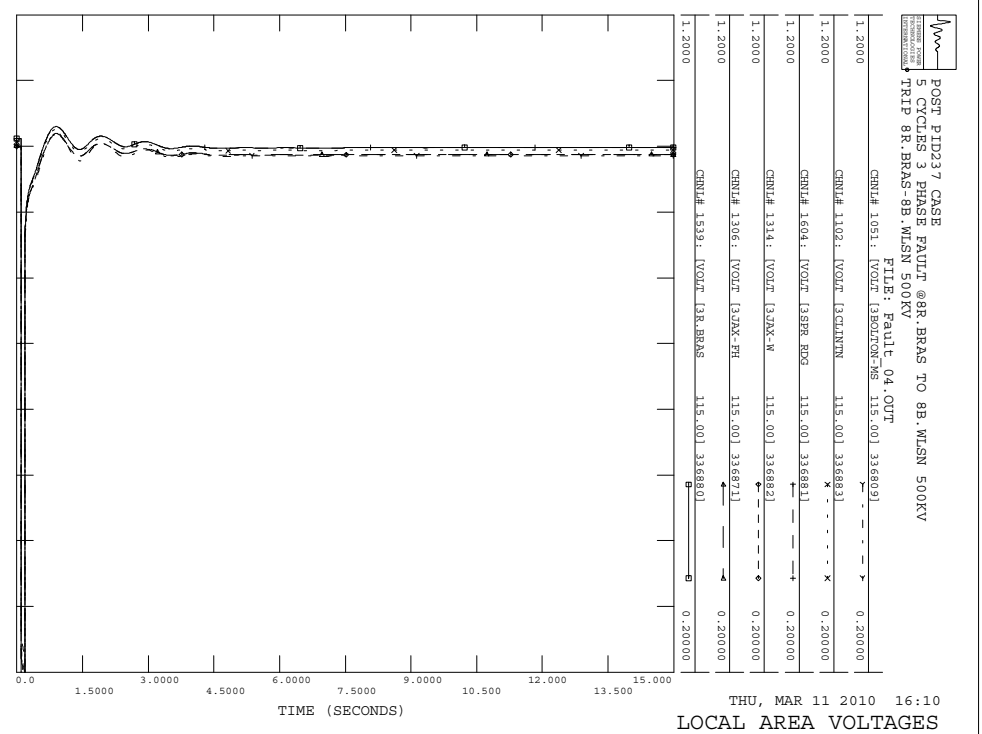
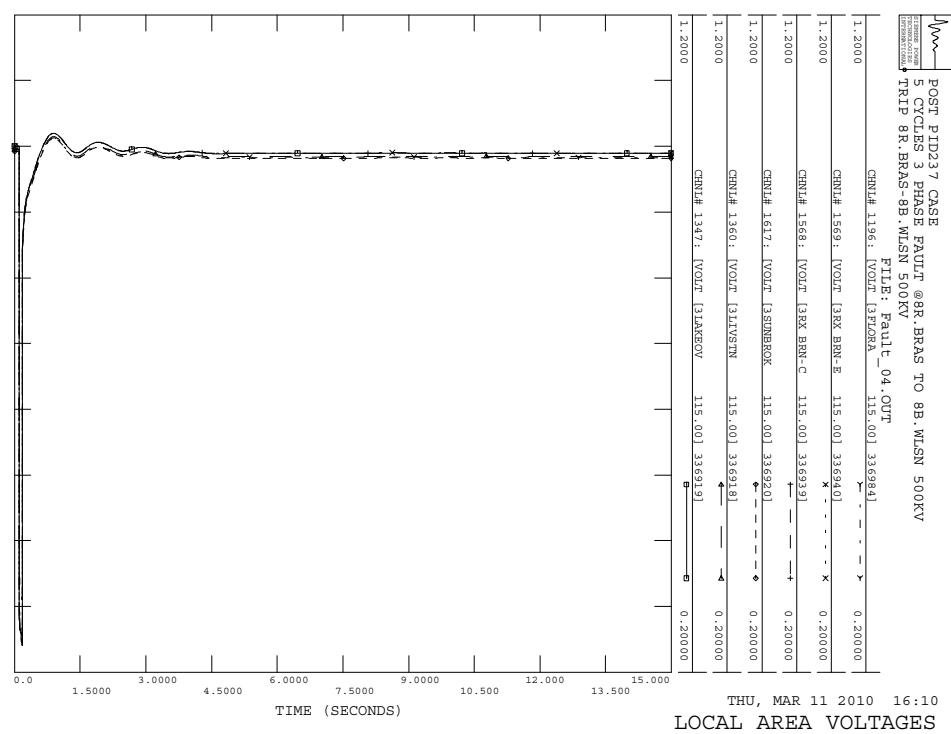
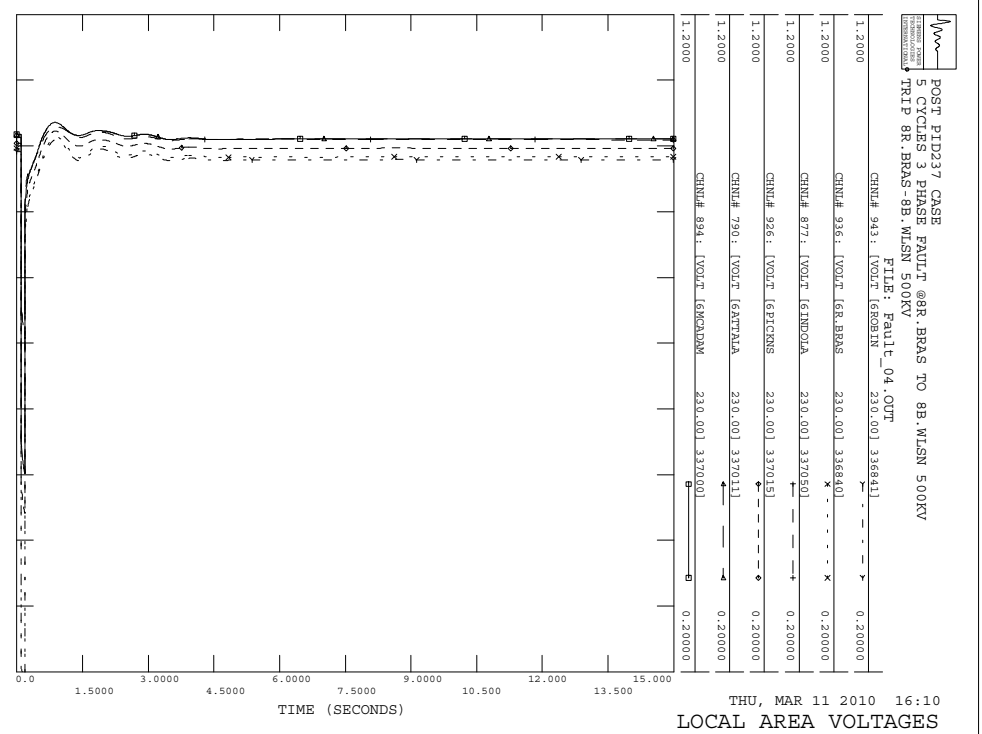
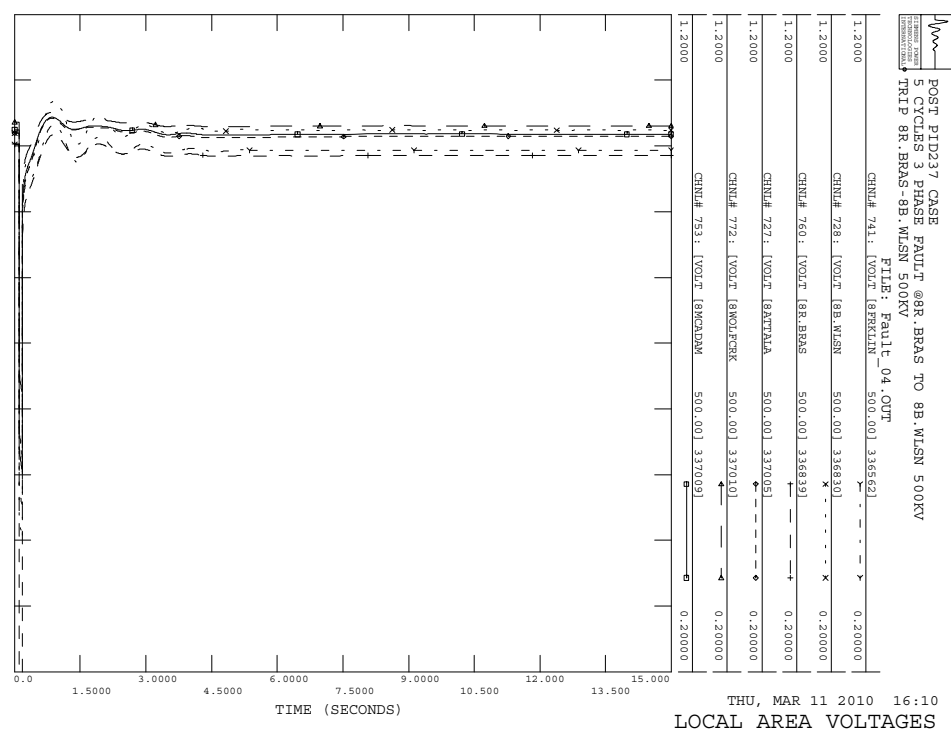


## **C.08 Fault\_04**

5 cycles 3 Phase Fault @8R.BRAS to 8B.WLSN 500kV  
Trip 8R.BRAS-8B.WLSN 500kV

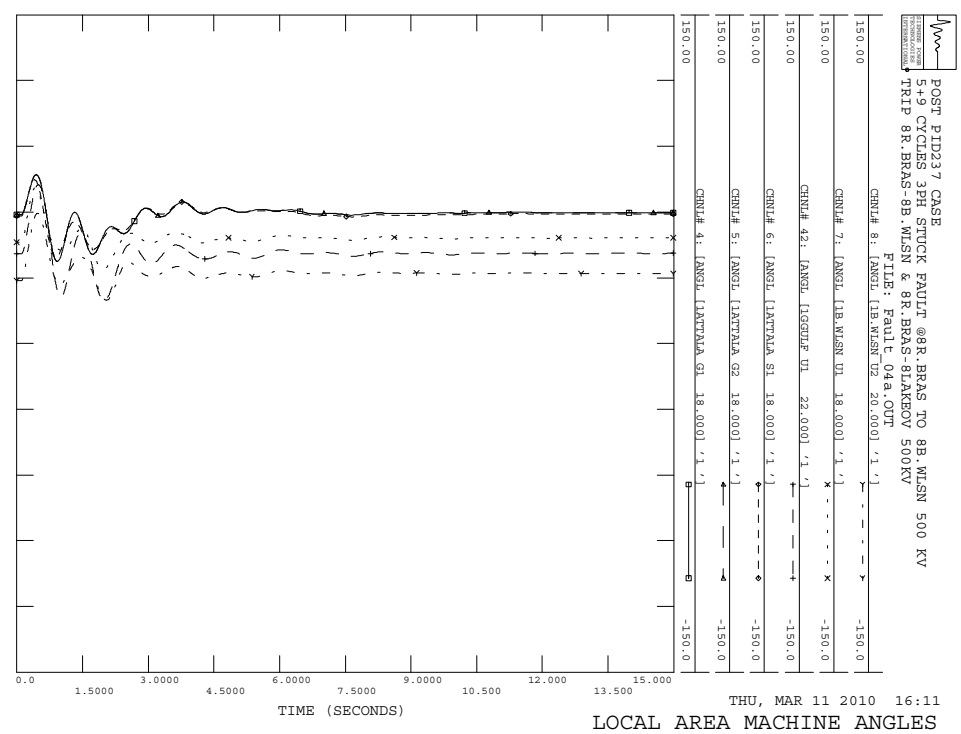
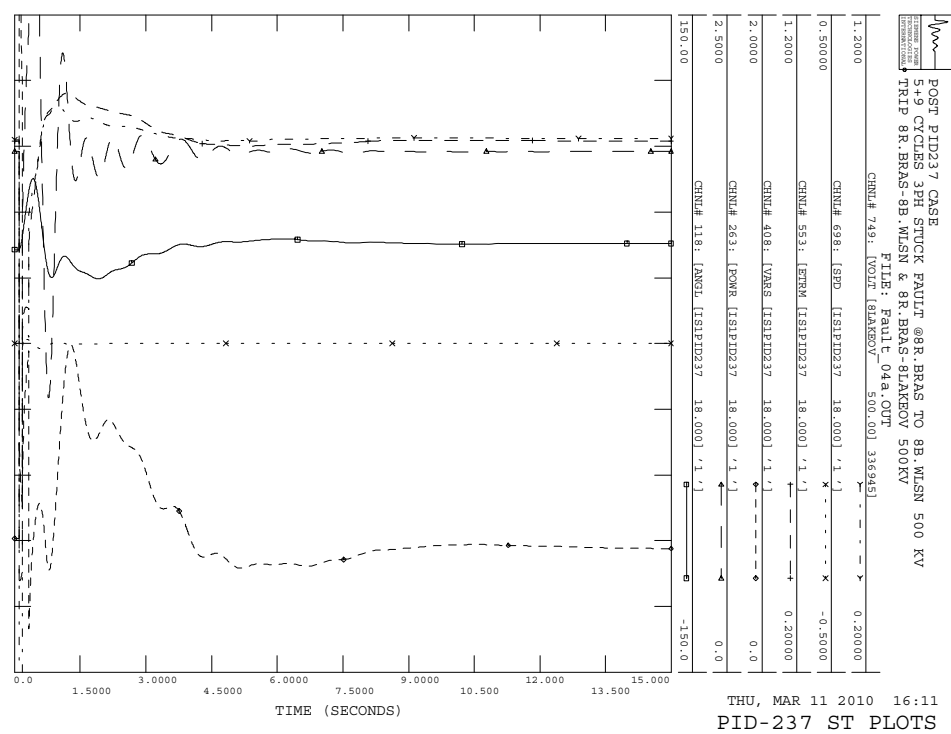
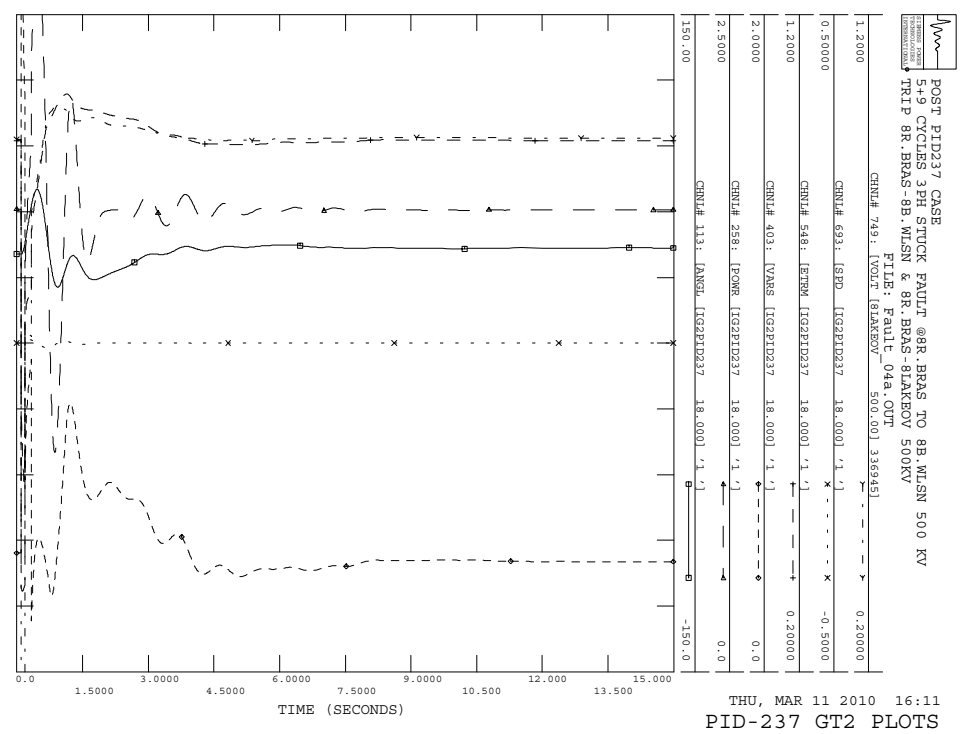
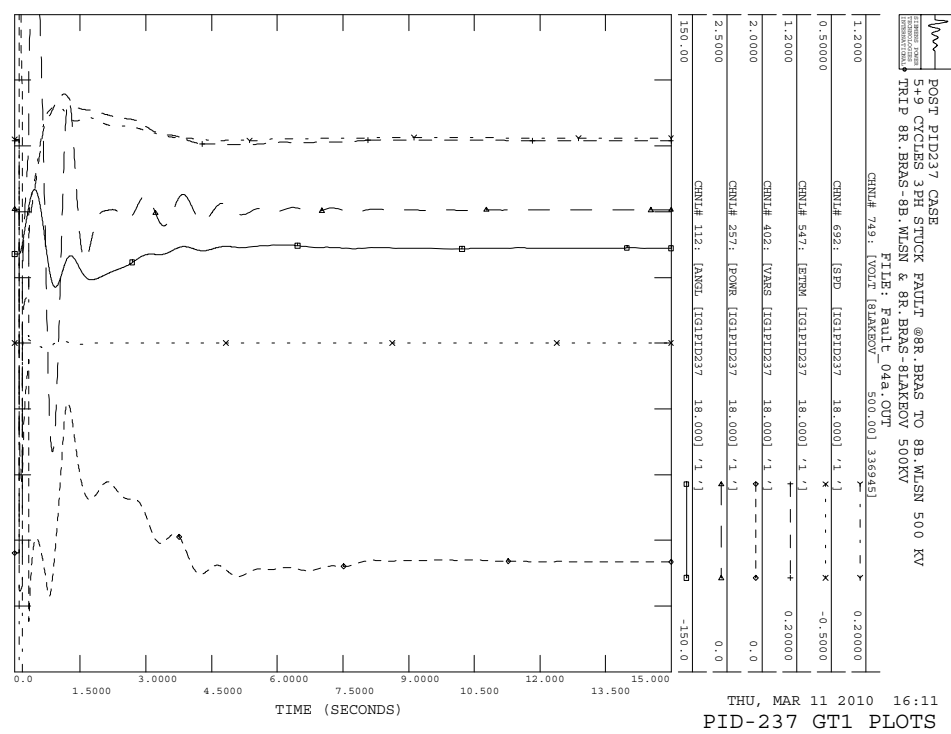


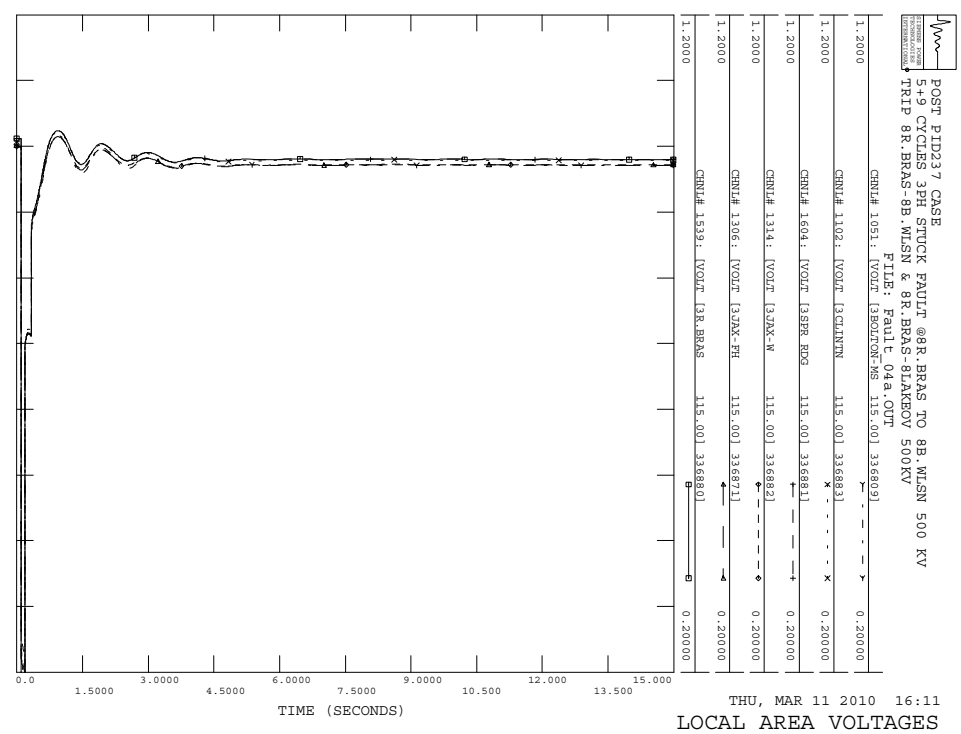
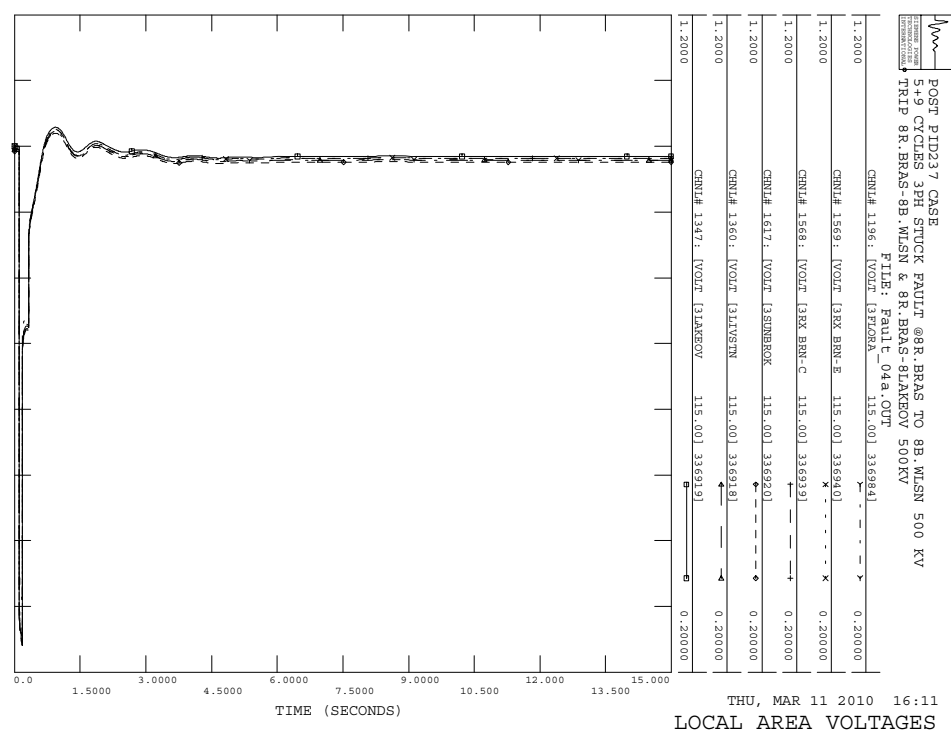
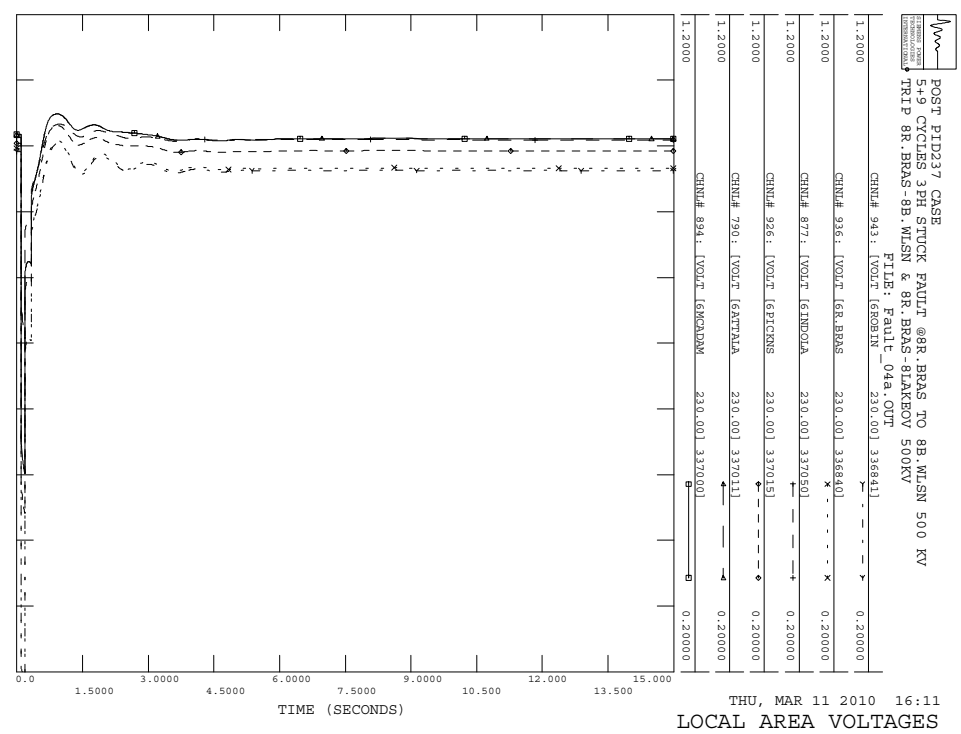
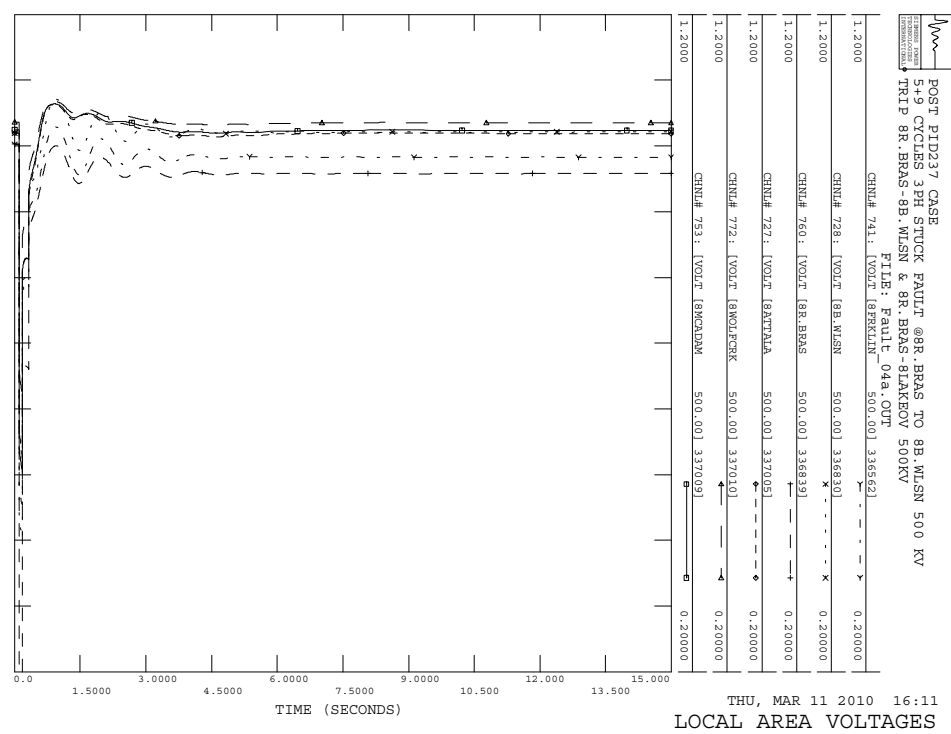




## **C.09 Fault\_04a**

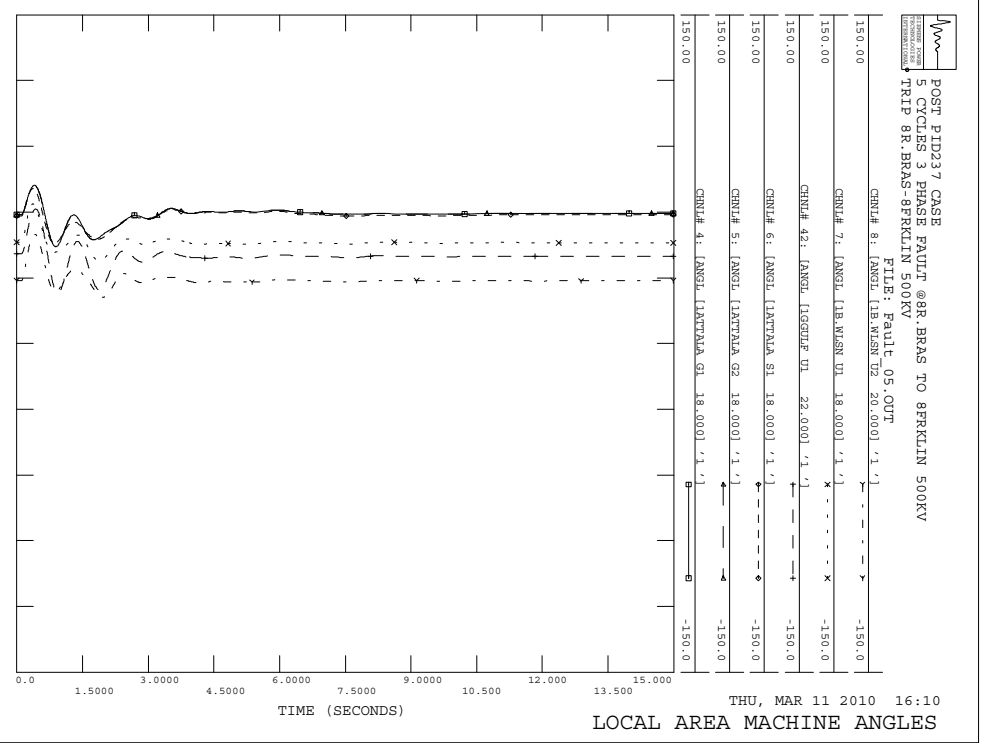
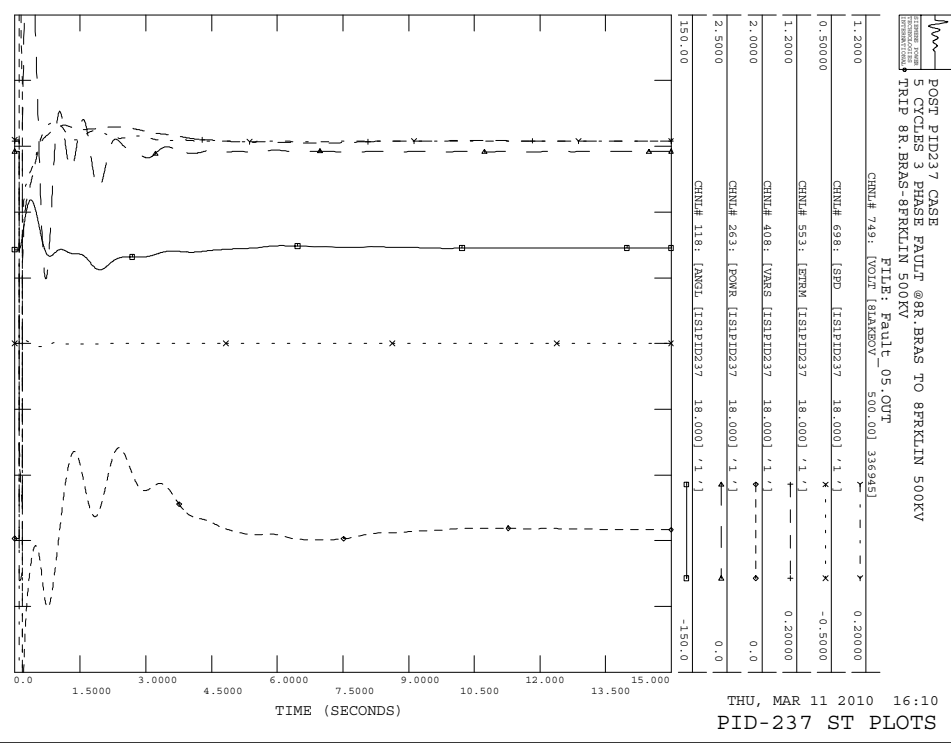
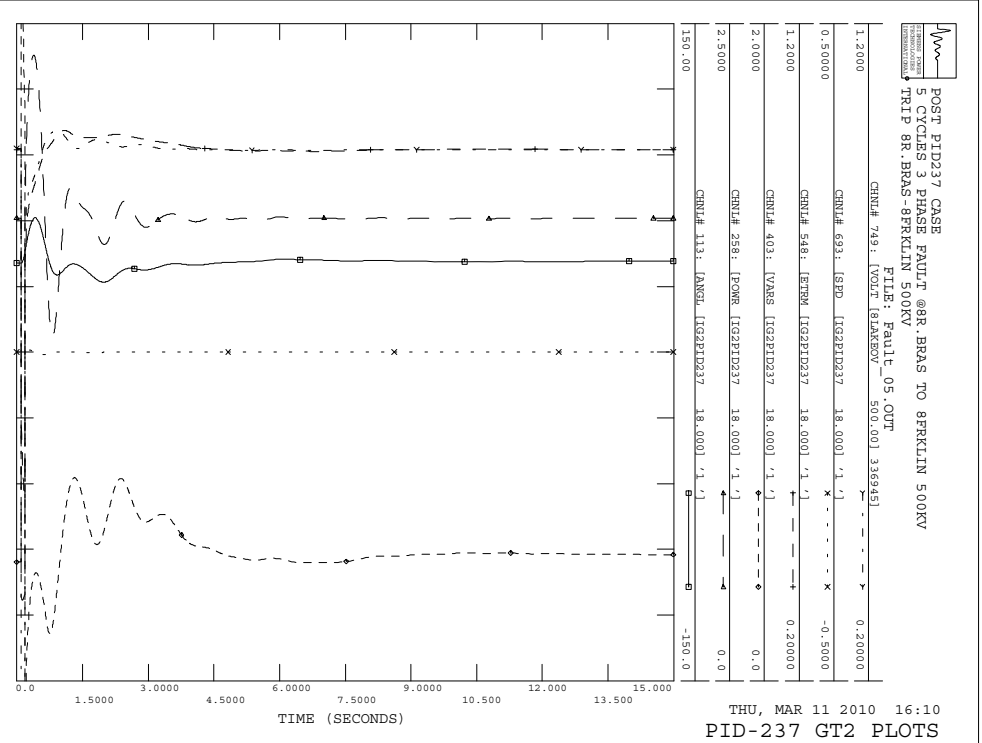
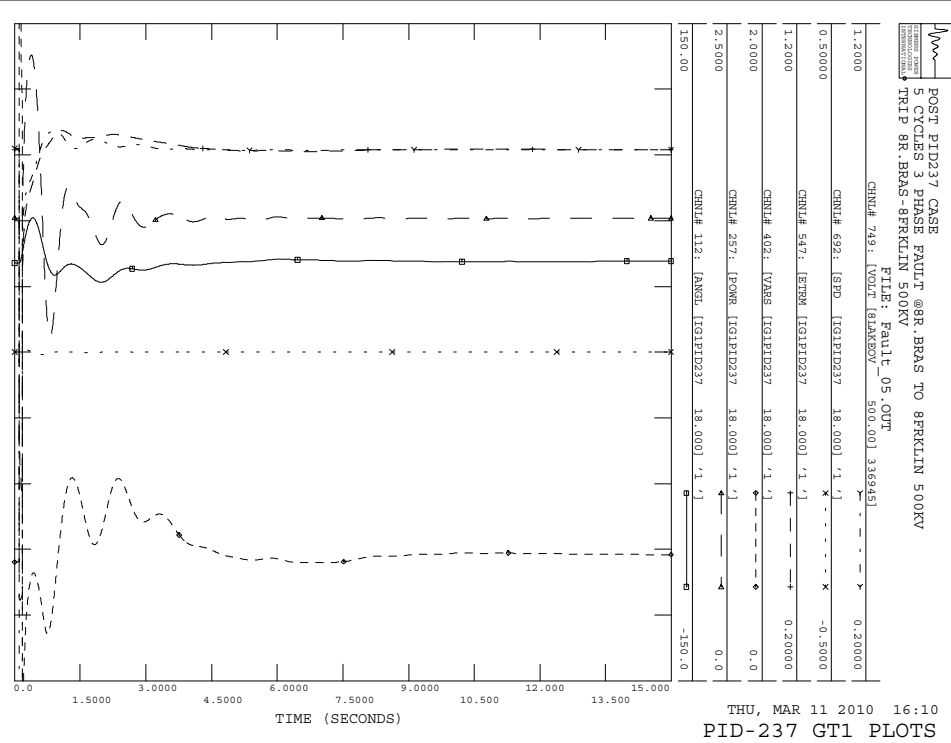
5+9 cycles 3Ph Stuck Fault @8R.BRAS to 8B.WLSN 500 kV  
Trip 8R.BRAS-8B.WLSN & 8R.BRAS-8LAKEOV 500kV

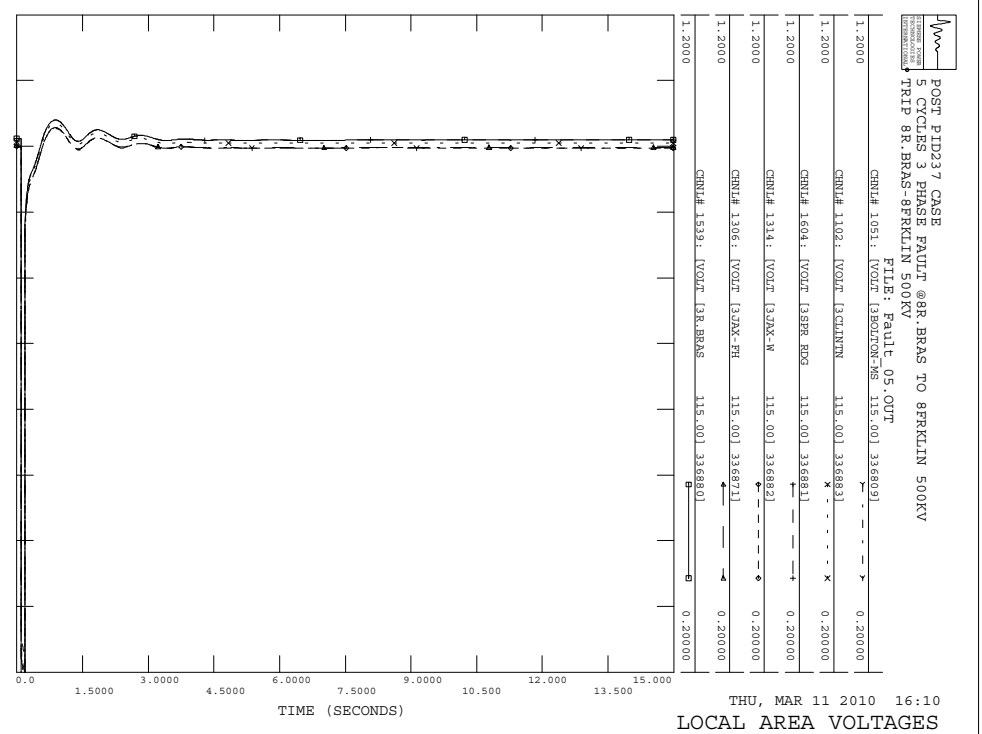
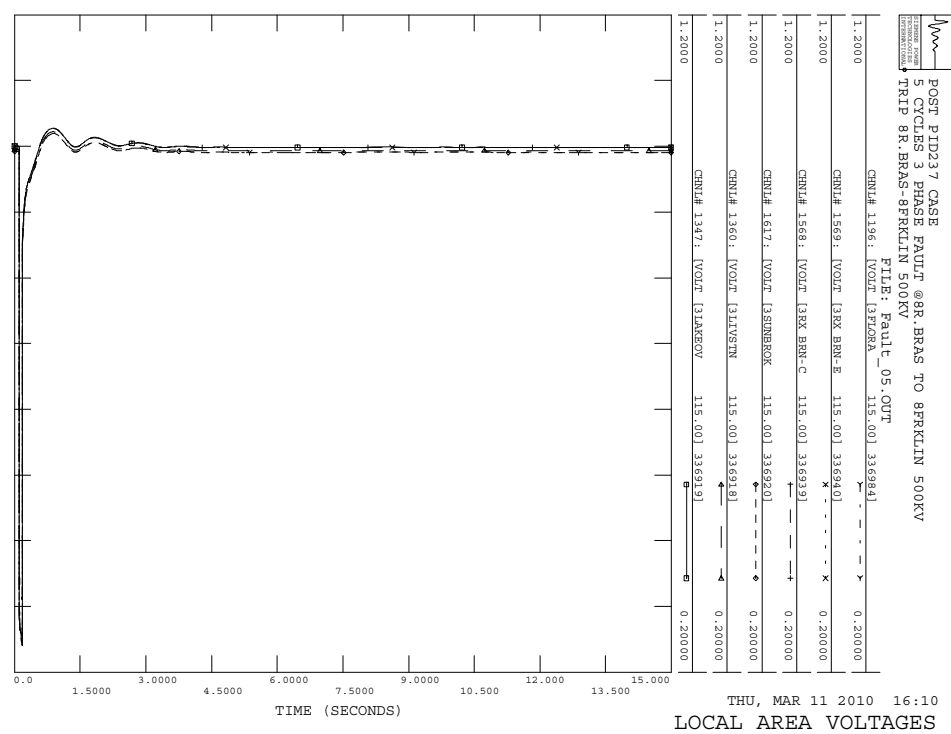
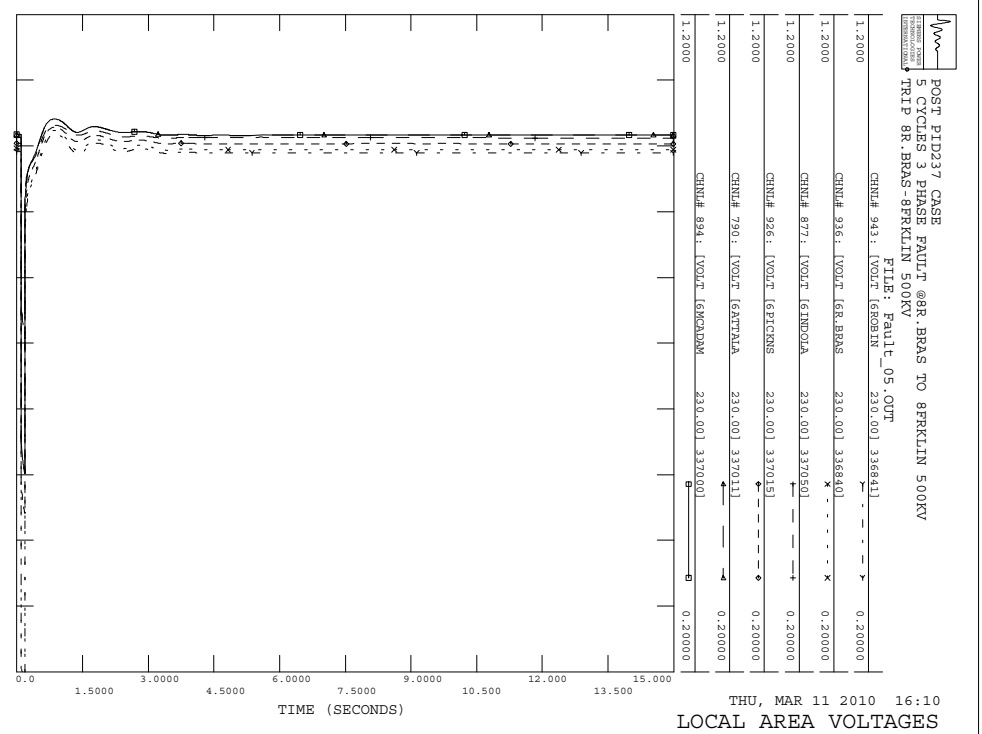
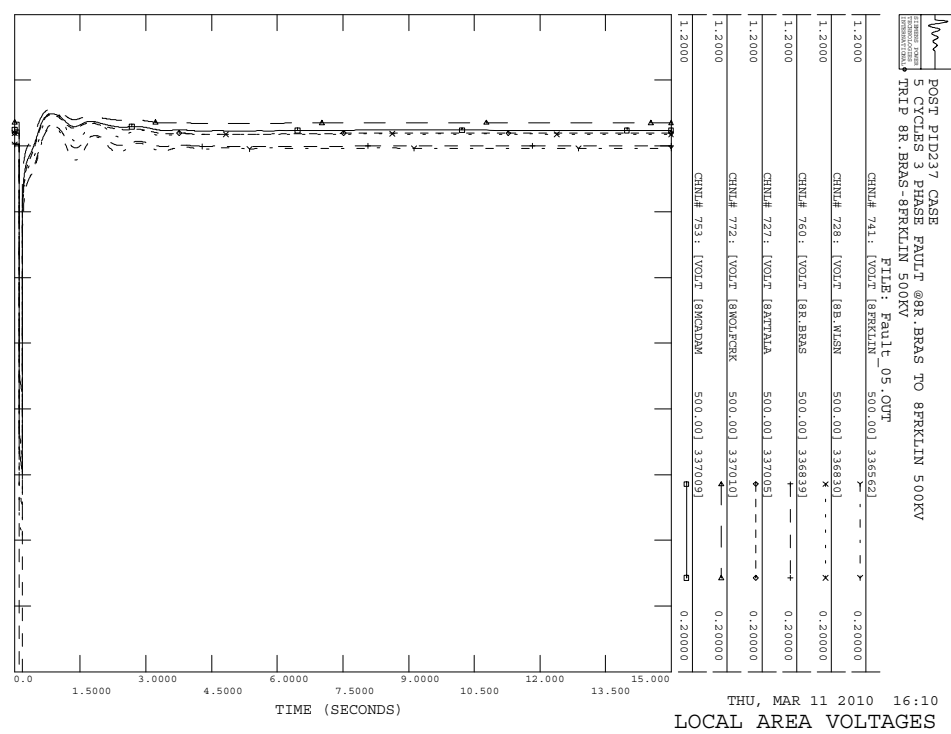




## **C.10 Fault\_05**

5 cycles 3 Phase Fault @8R.BRAS to 8FRKLIN 500kV  
Trip 8R.BRAS-8FRKLIN 500kV

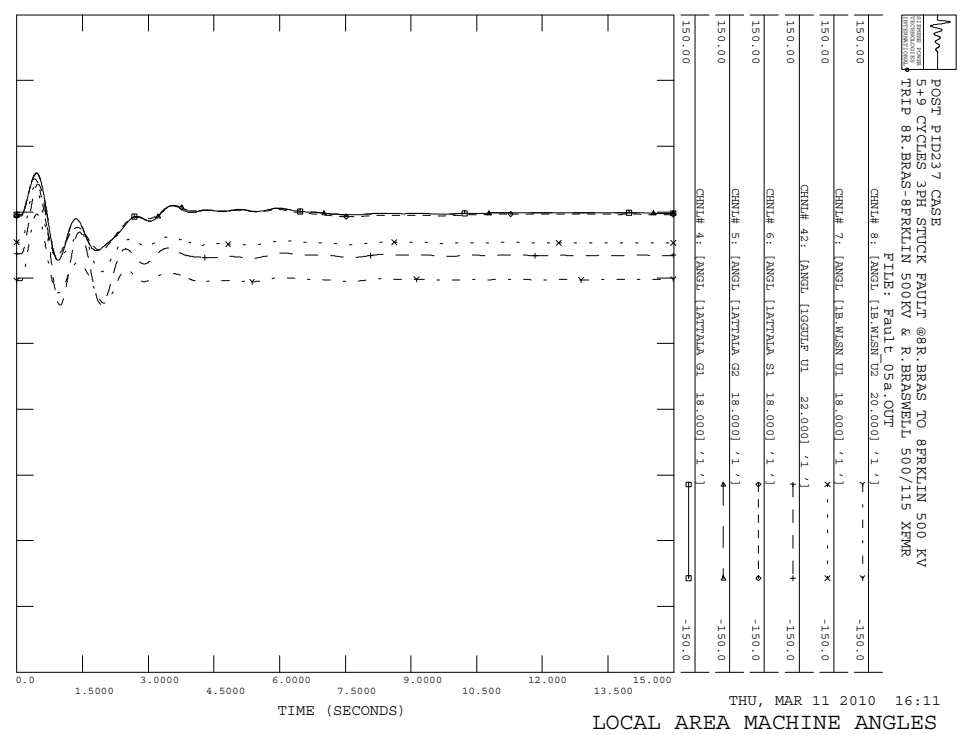
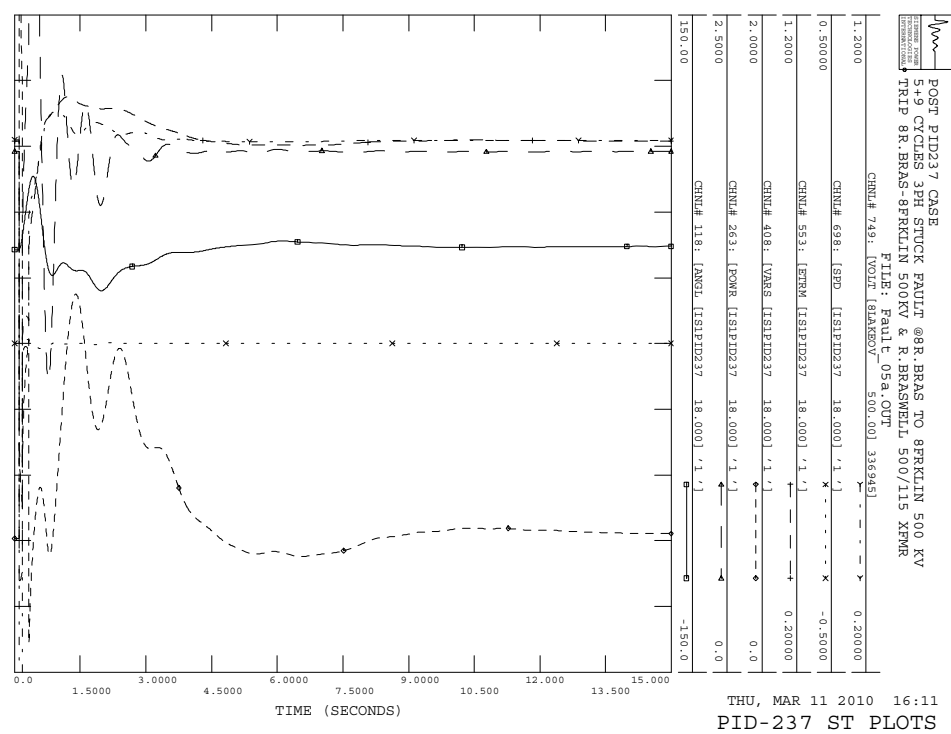
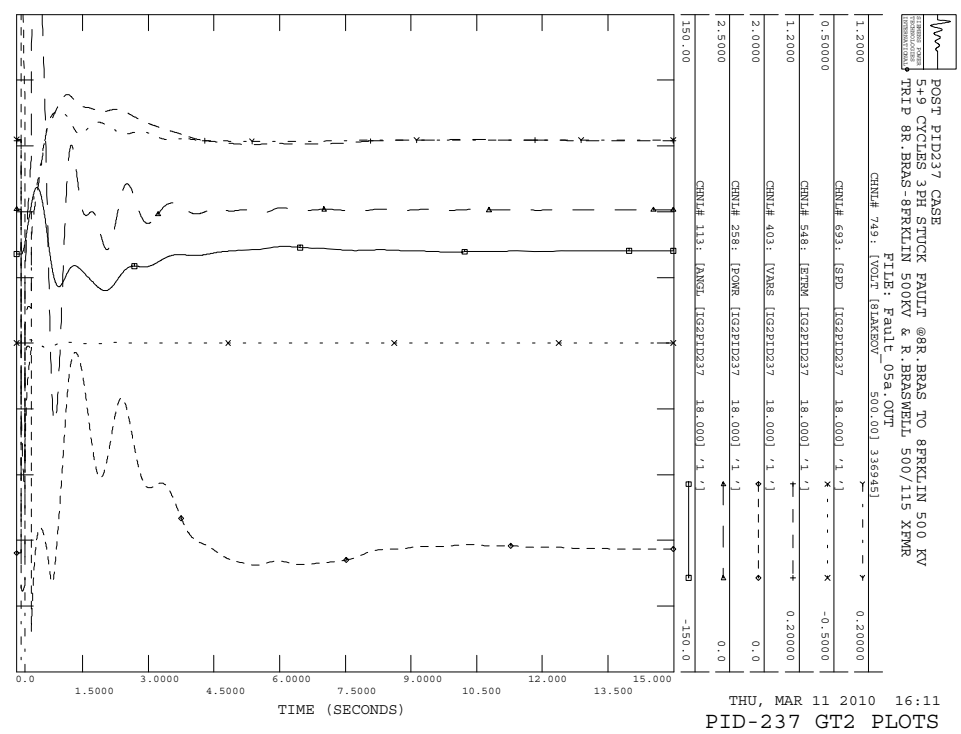
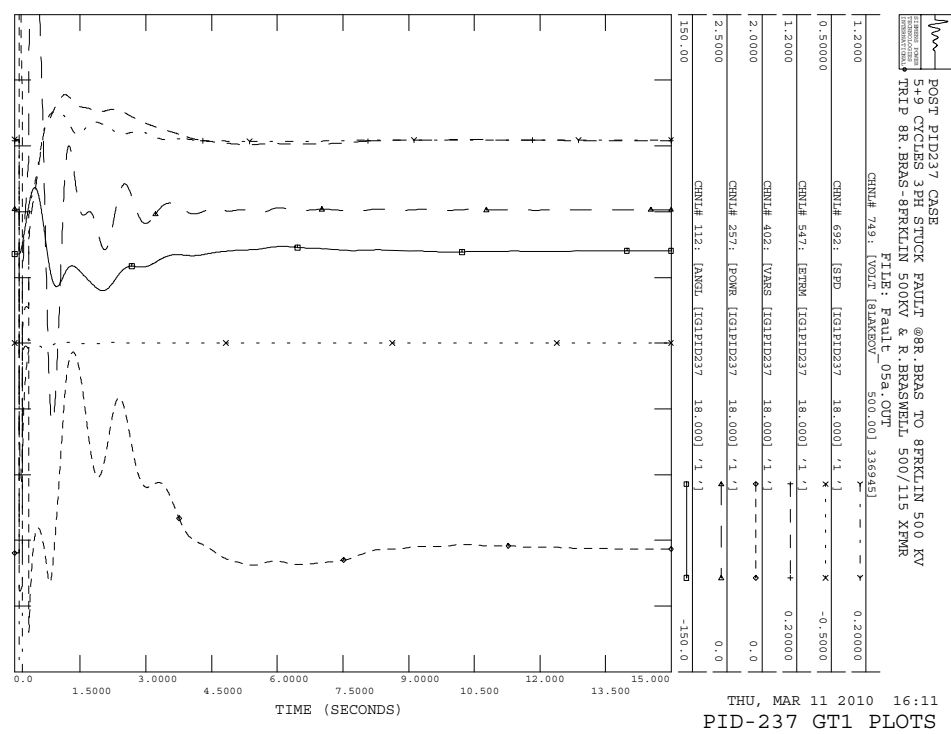


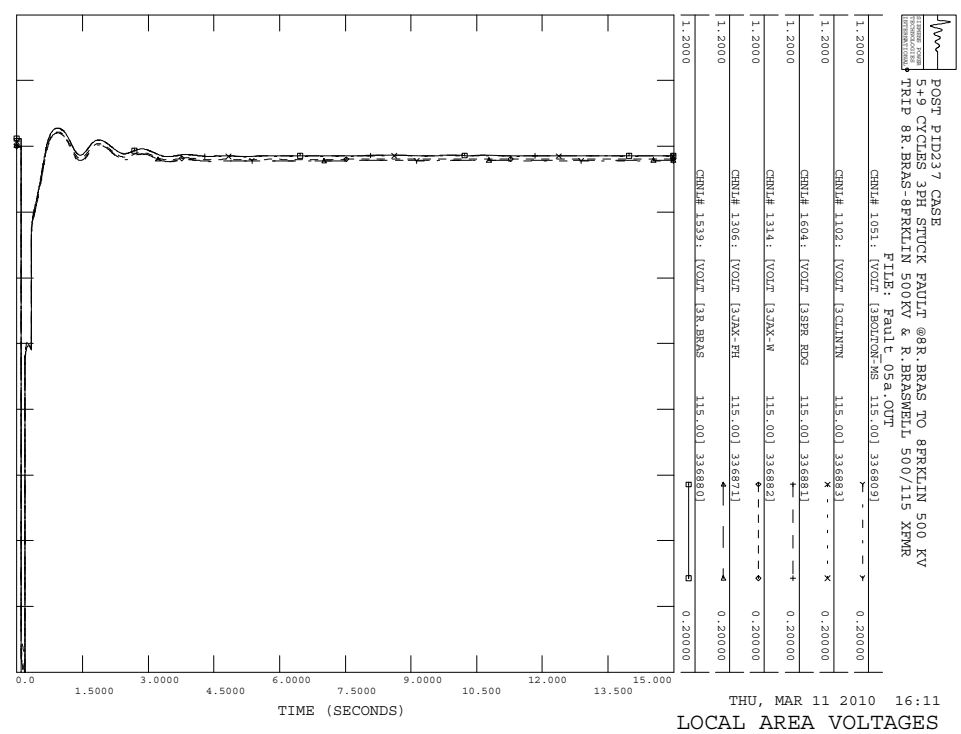
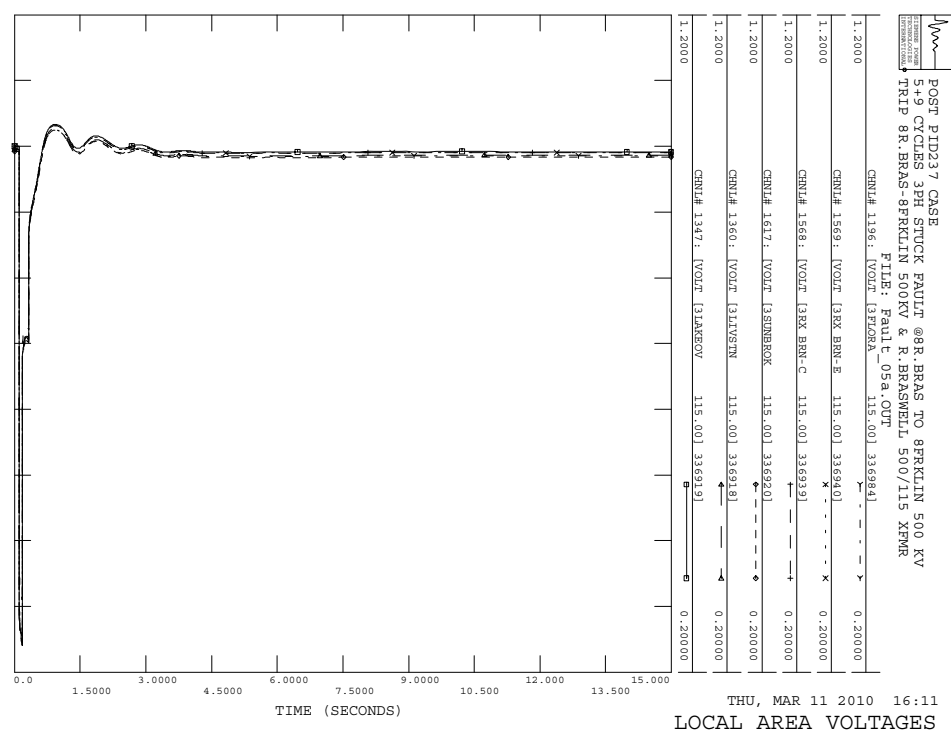
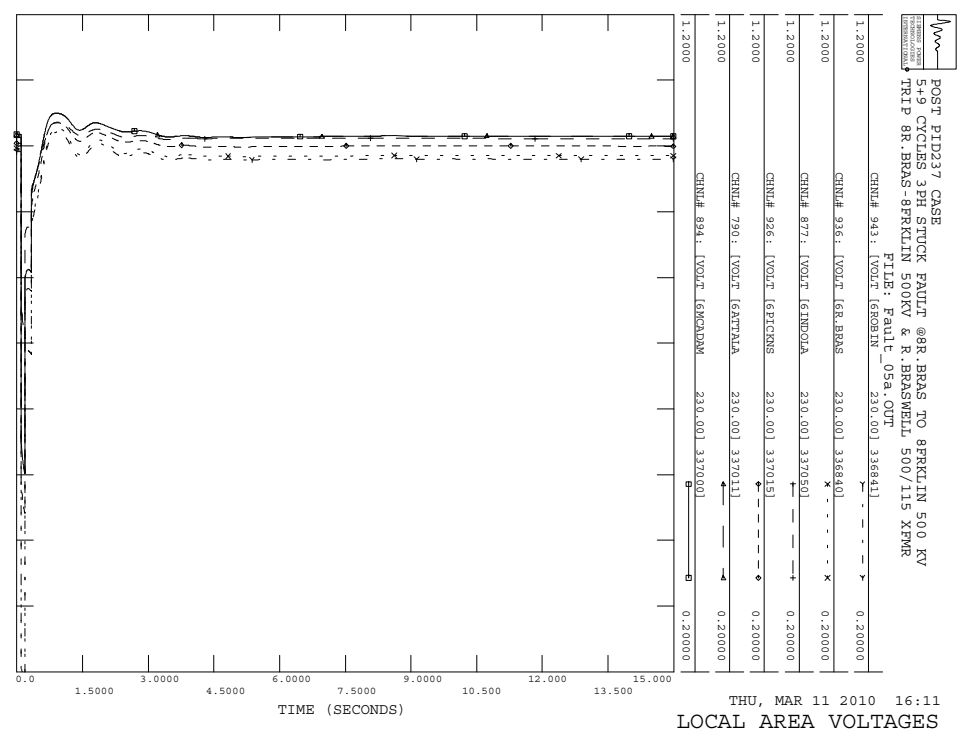
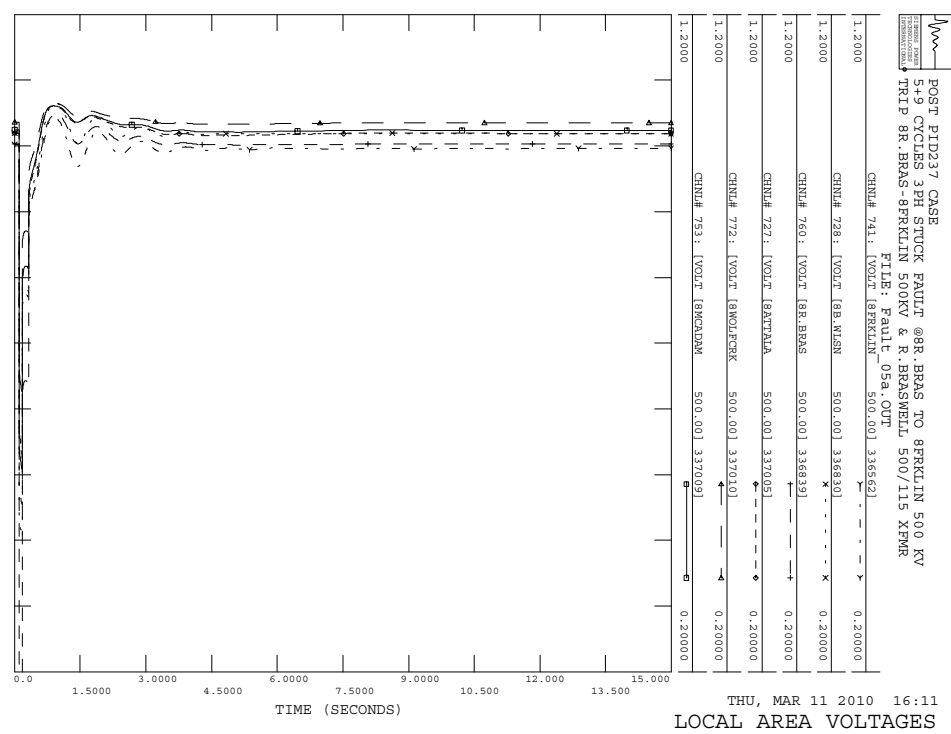


## **C.11 Fault\_05a**

5+9 cycles 3Ph Stuck Fault @8R.BRAS to 8FRKLIN 500 kV  
Trip 8R.BRAS-8FRKLIN 500kV & R.Braswell 500/115 Xfmr

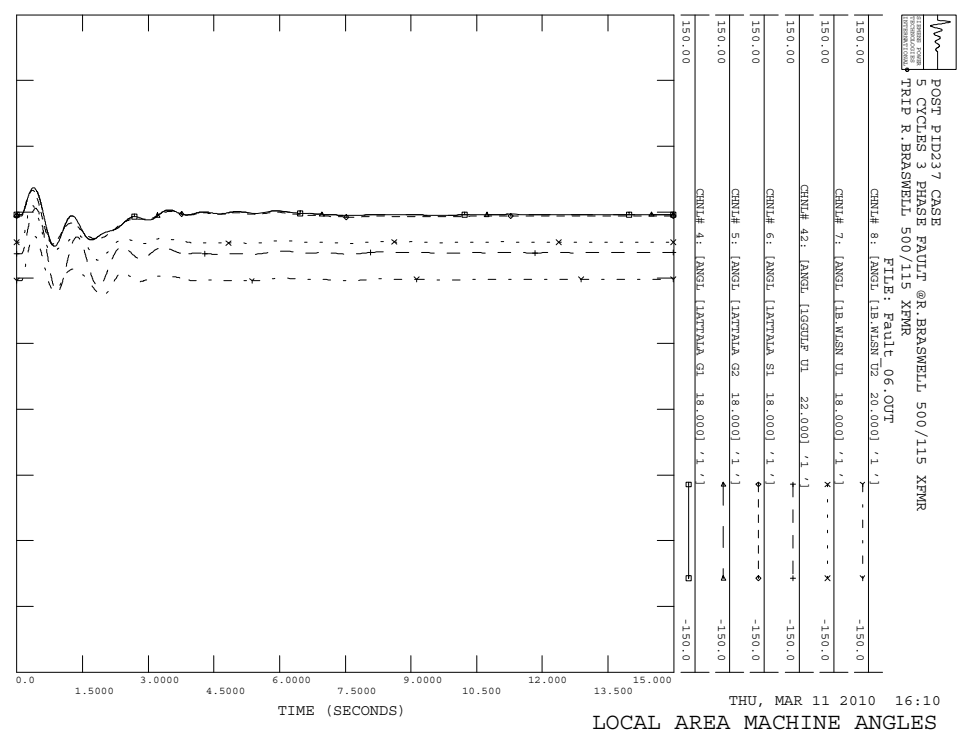
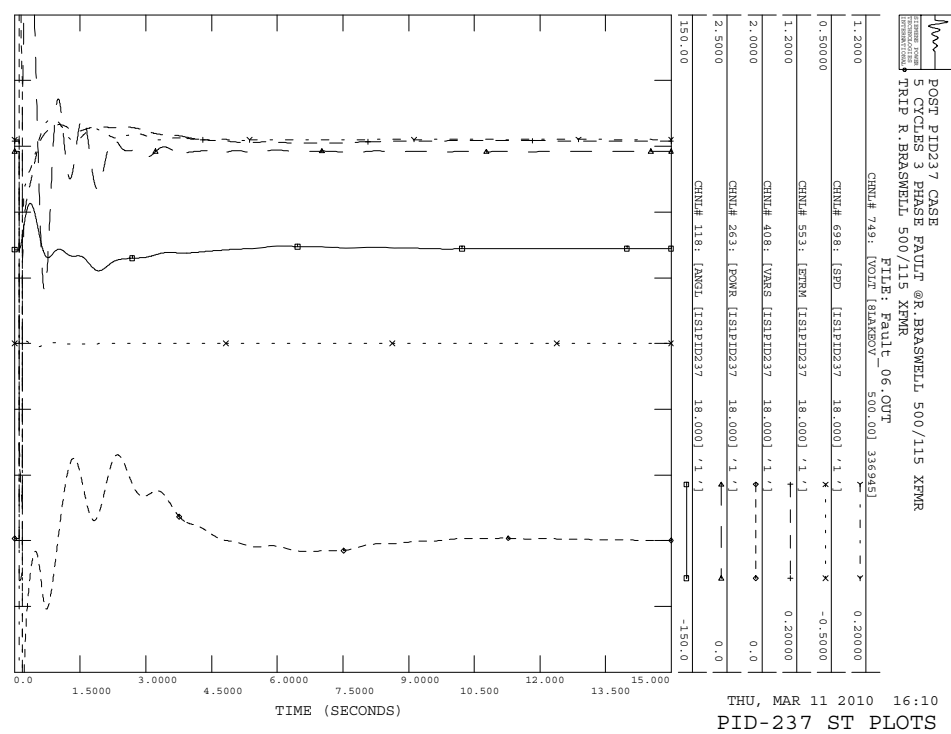
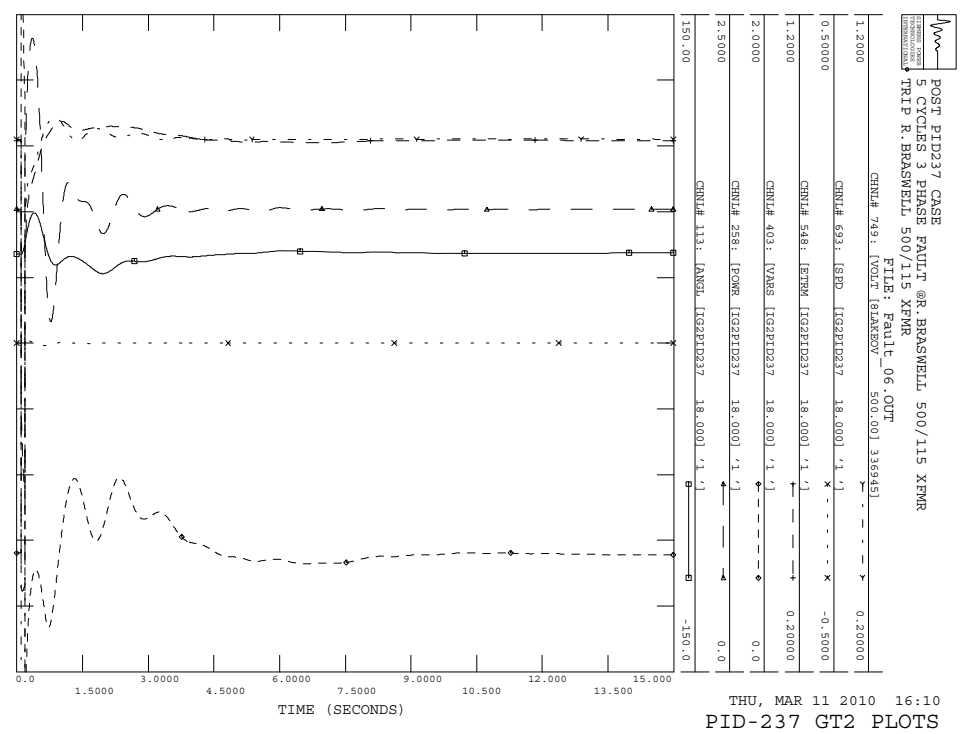
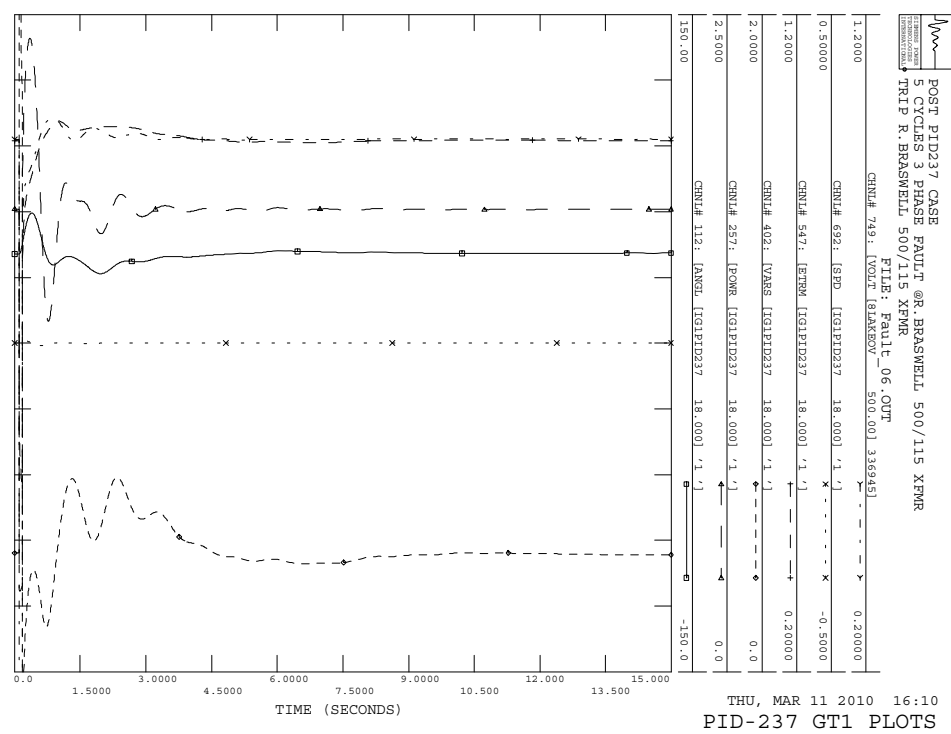


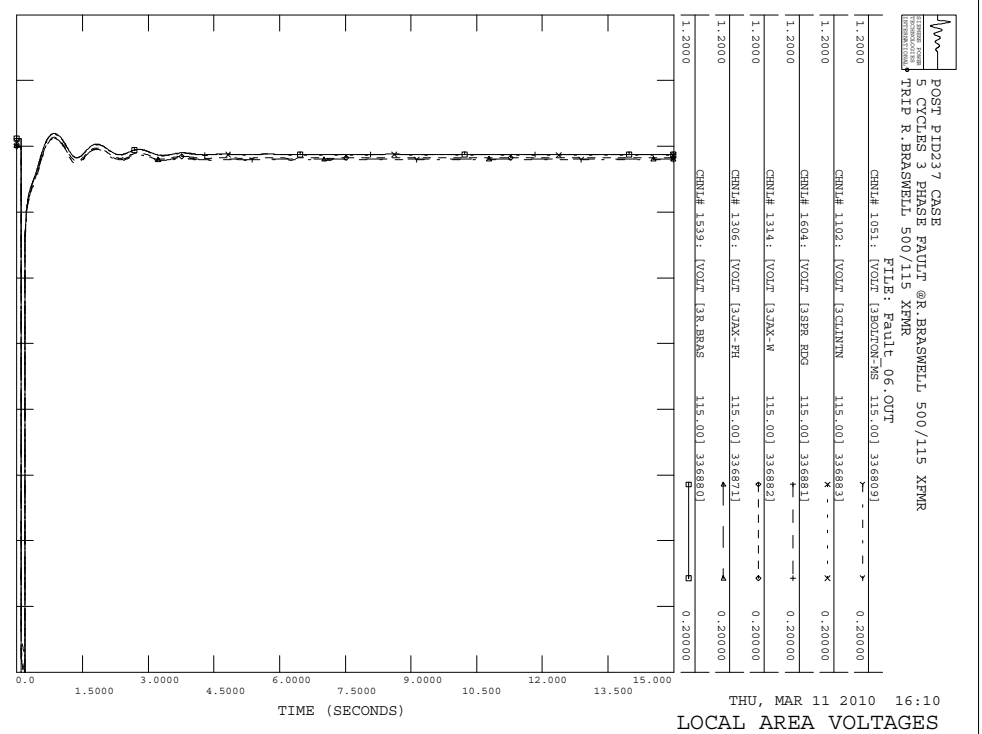
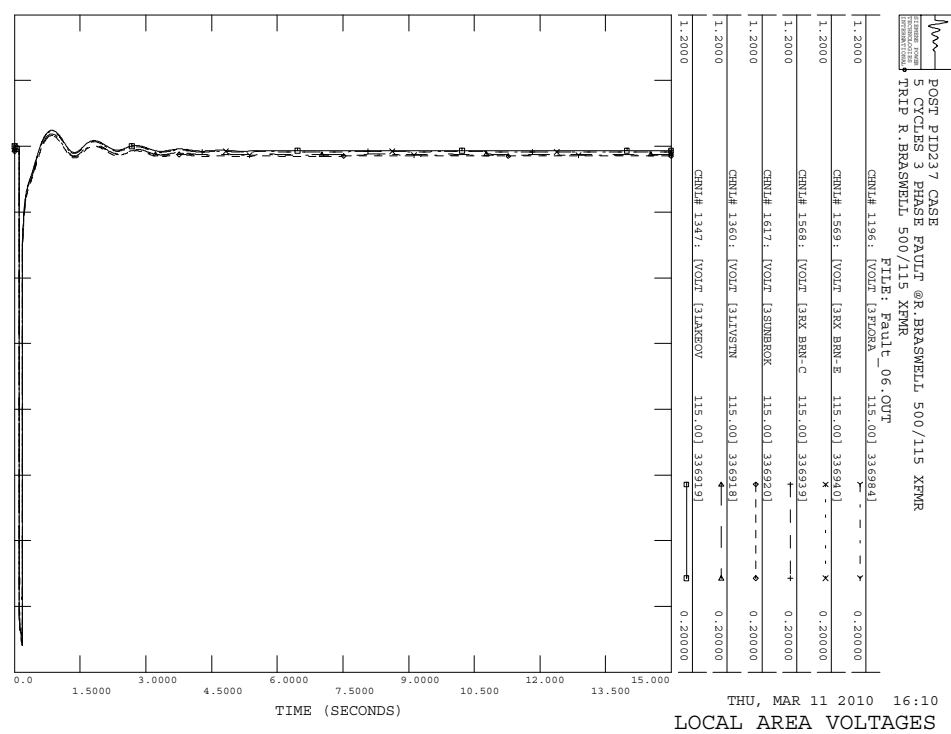
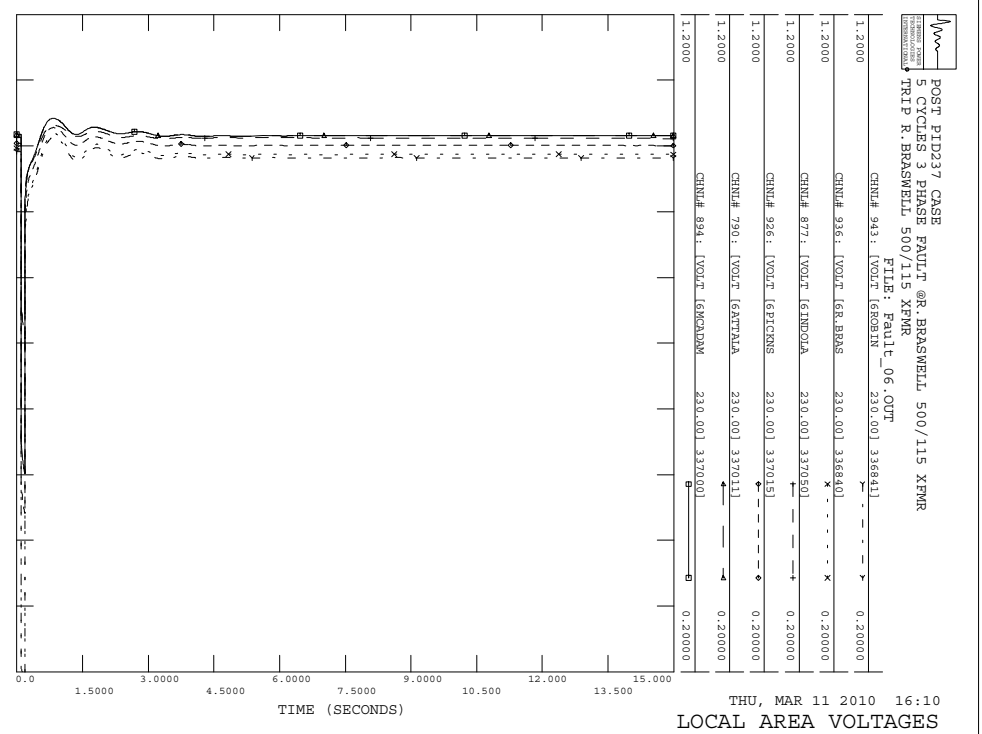
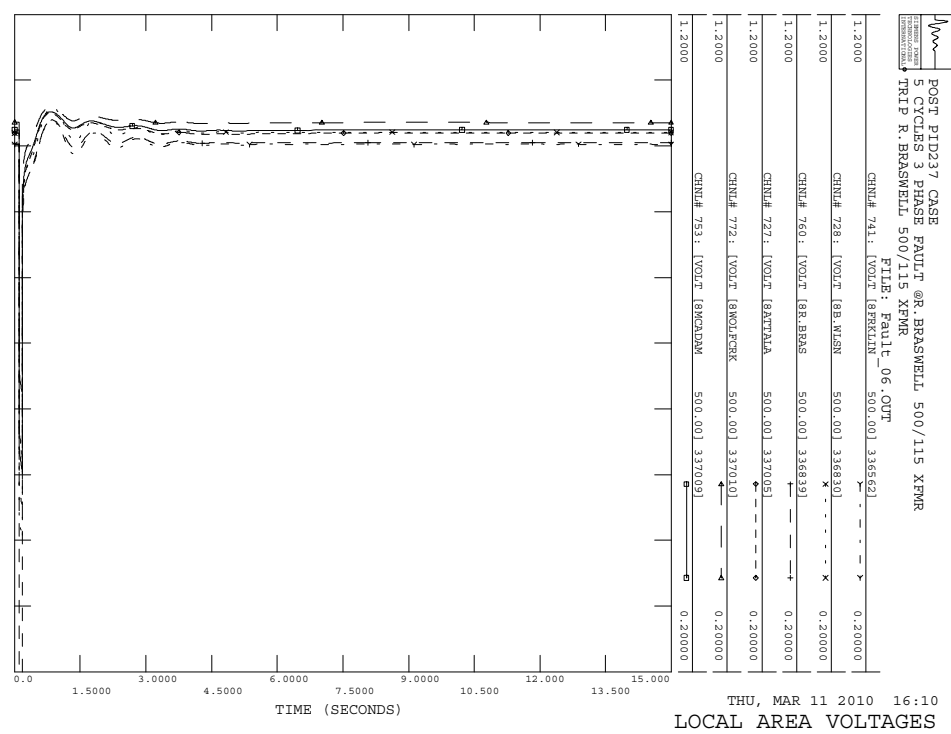




## **C.12 Fault\_06**

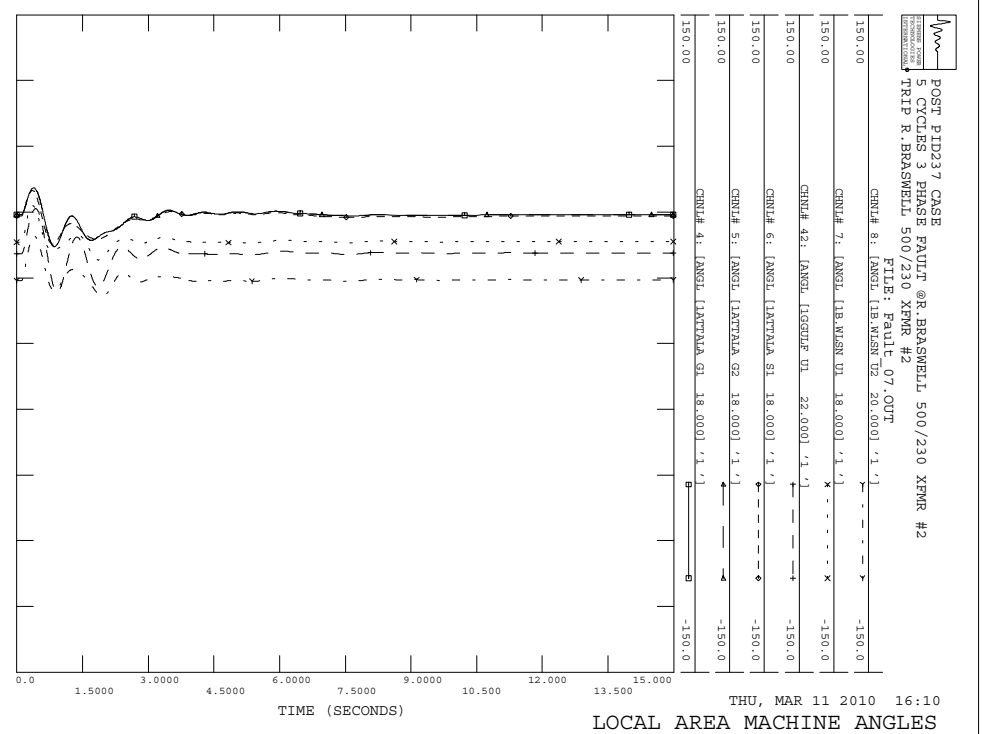
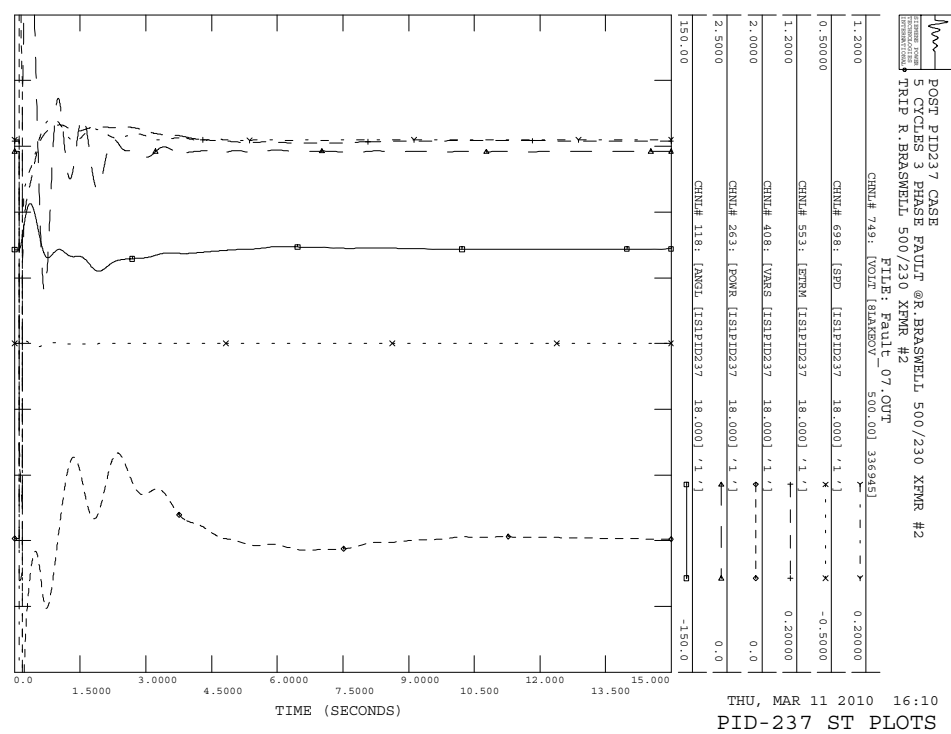
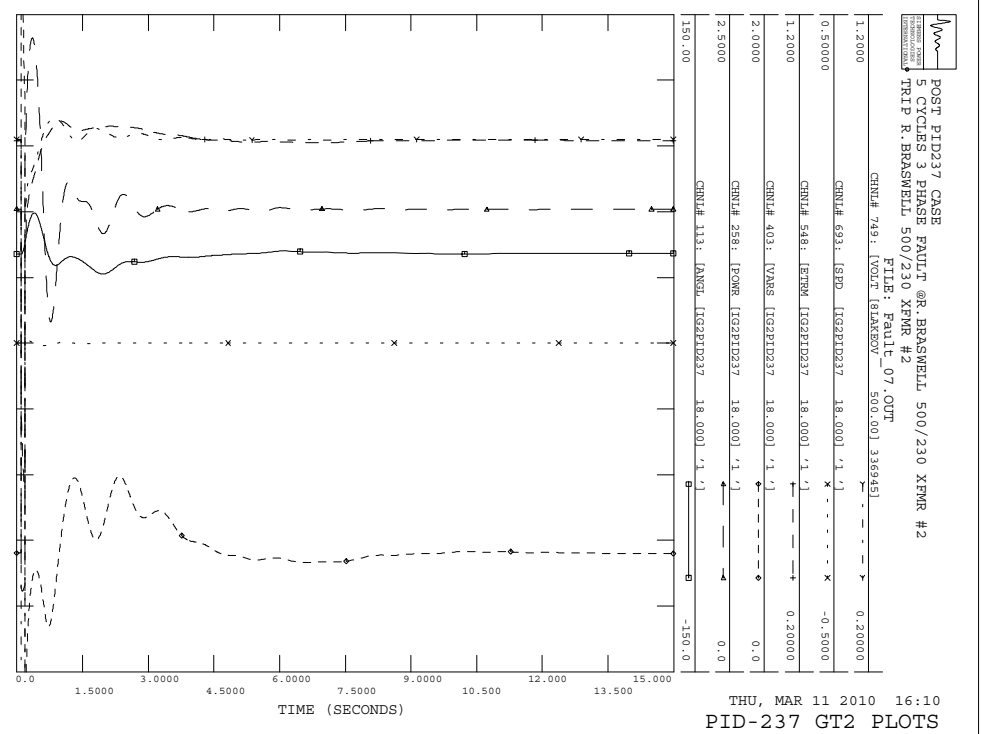
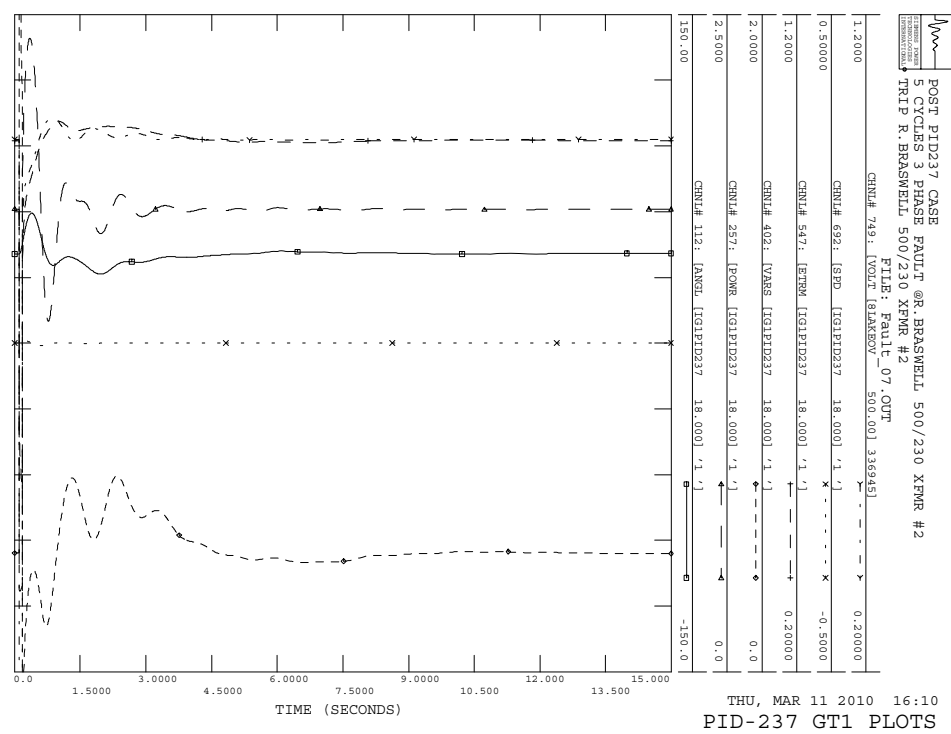
5 cycles 3 Phase Fault @R.Braswell 500/115 Xfmr  
Trip R.Braswell 500/115 Xfmr

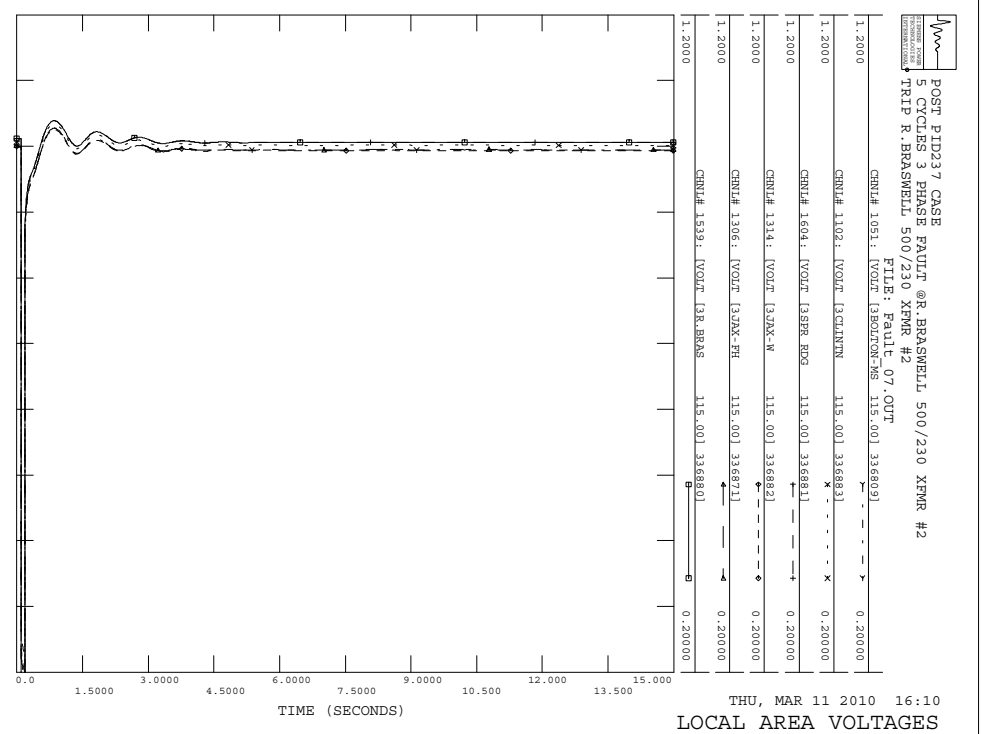
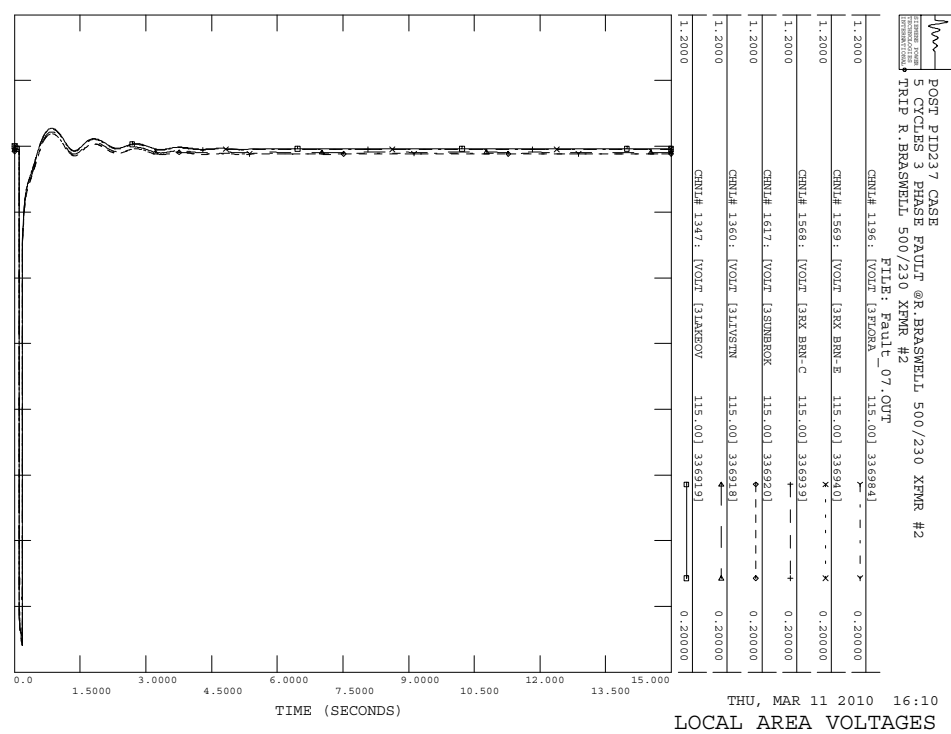
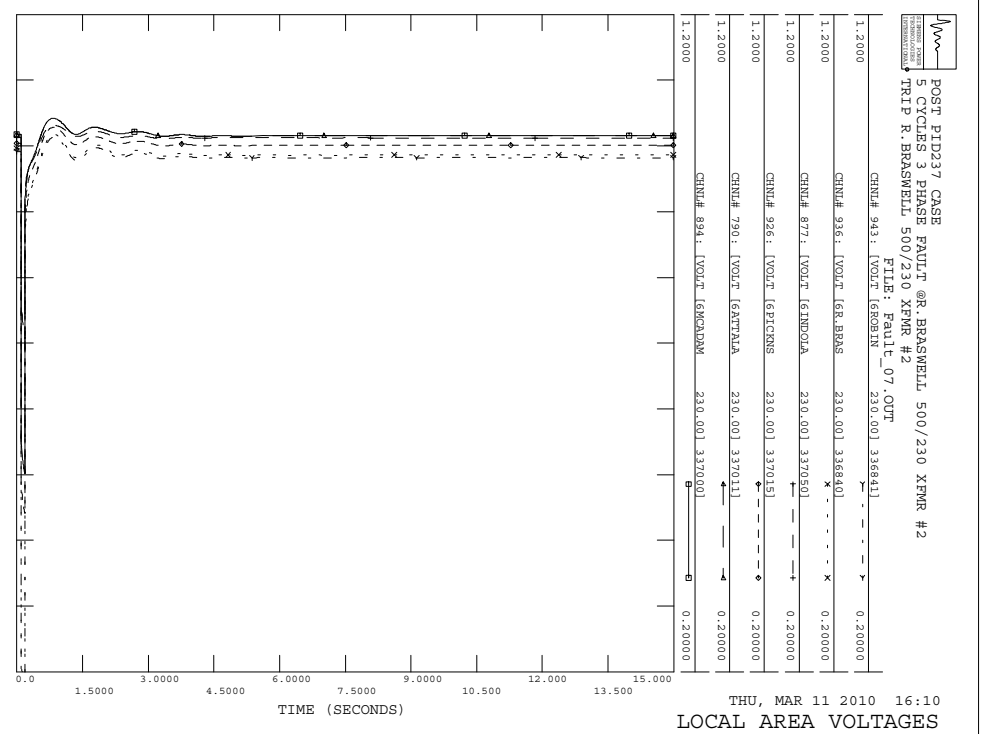
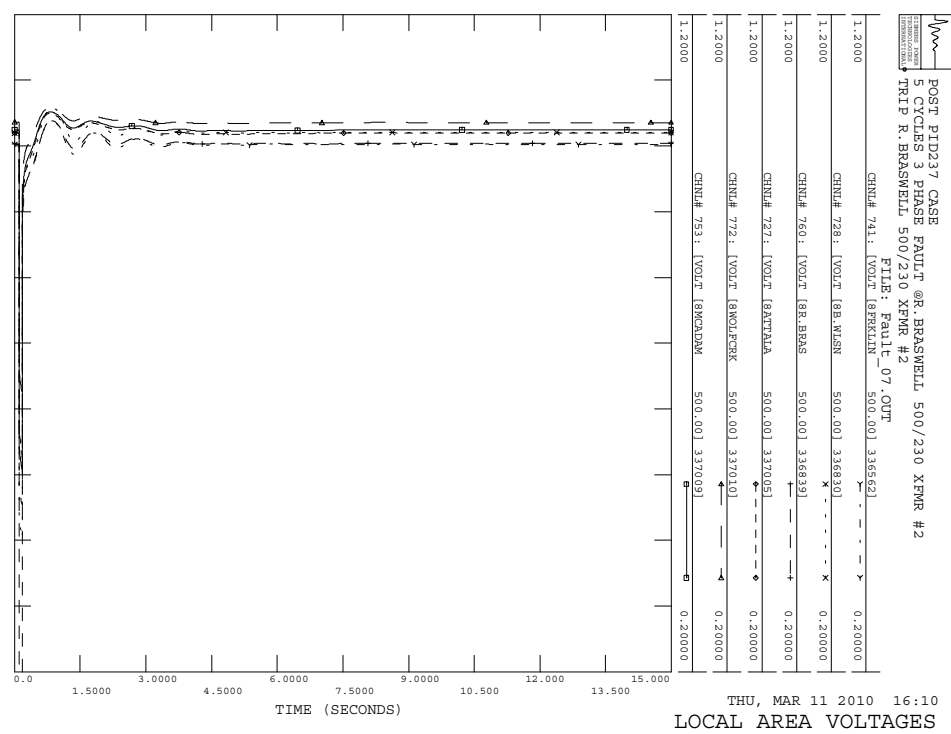




### **C.13 Fault\_07**

5 cycles 3 Phase Fault @R.Braswell 500/230 Xfmr #2  
Trip R.Braswell 500/230 Xfmr #2

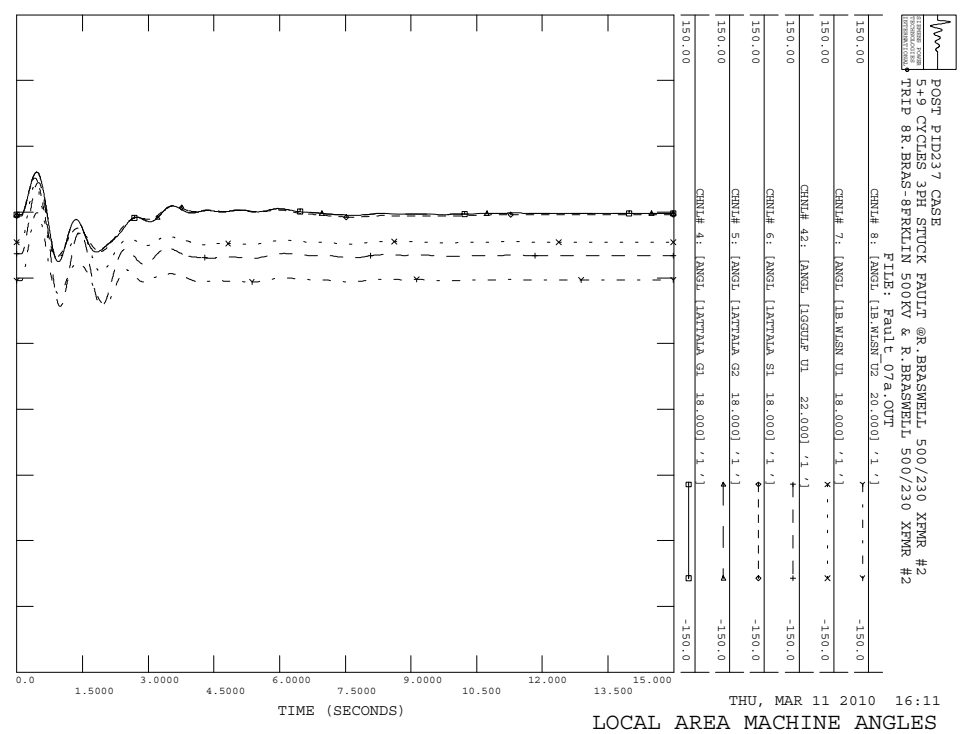
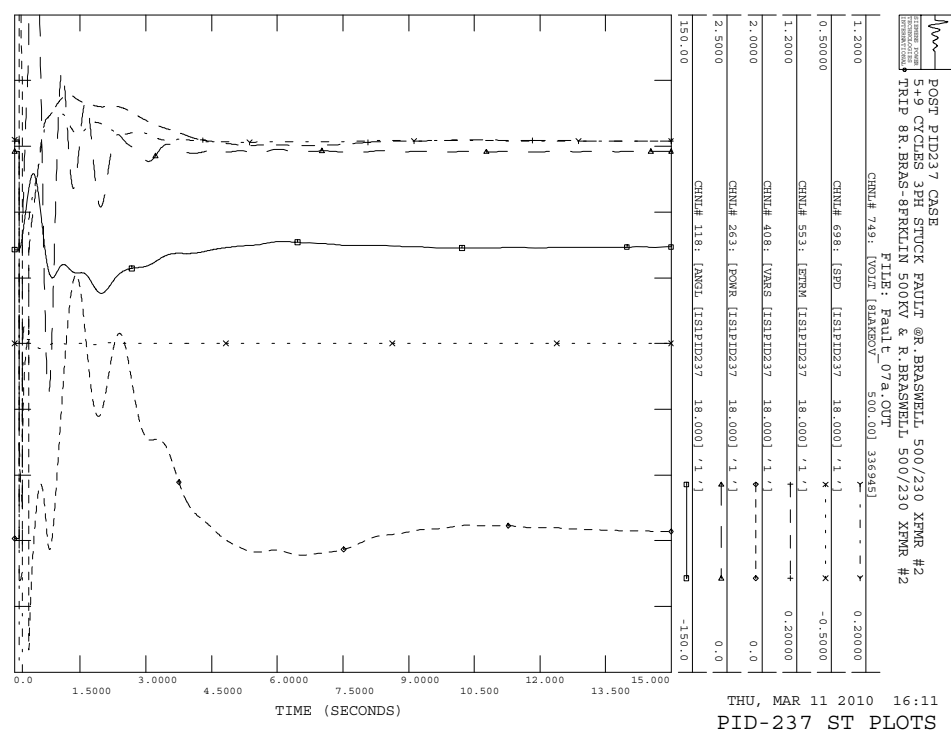
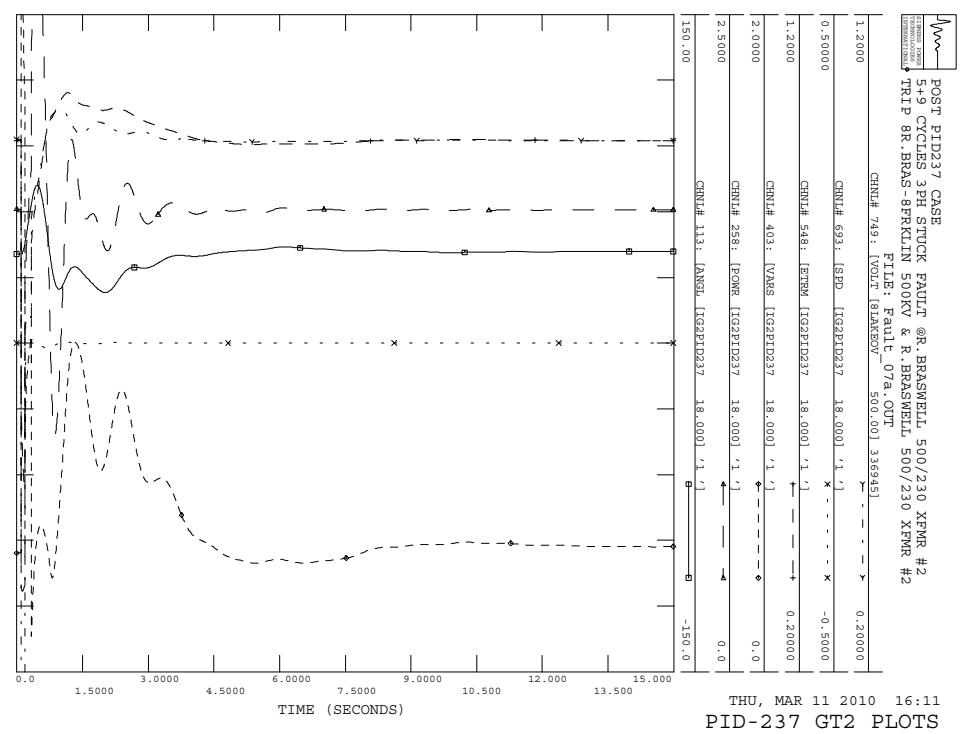
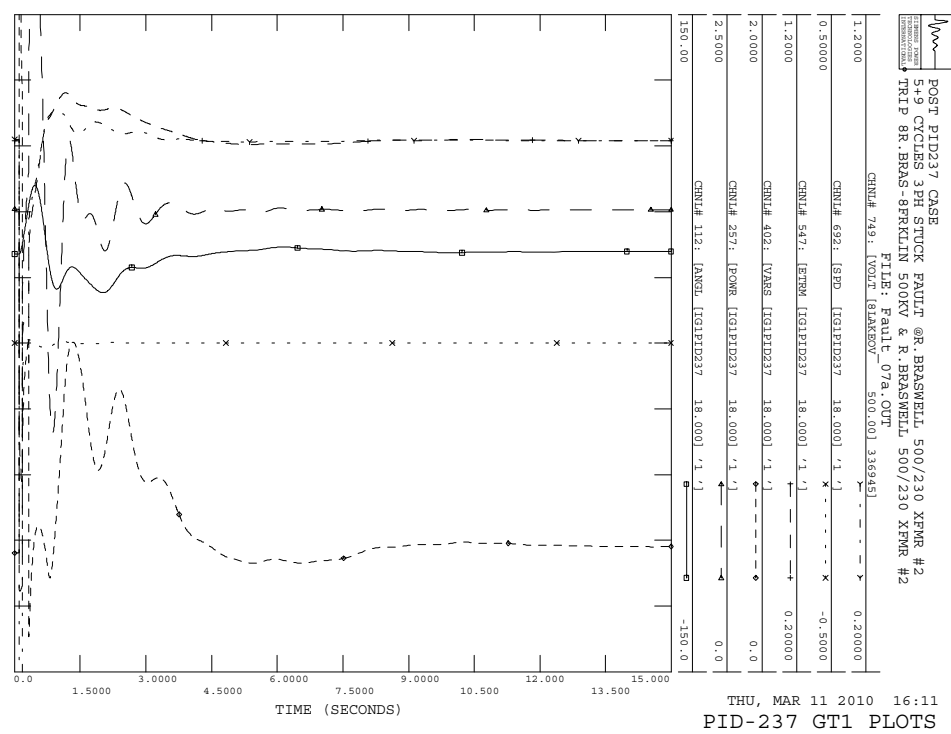


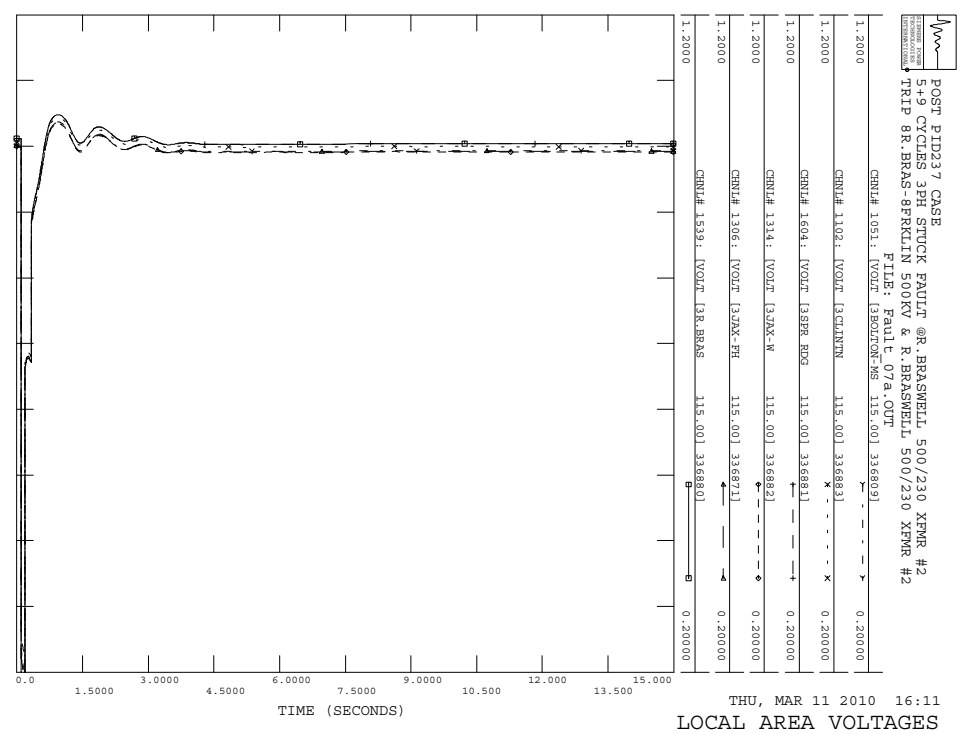
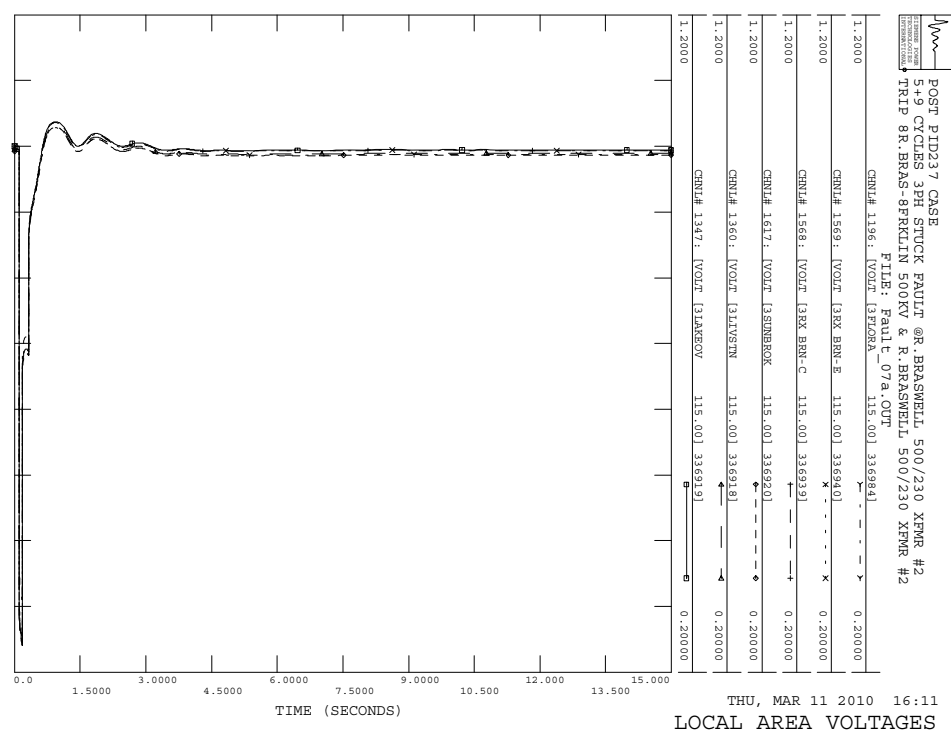
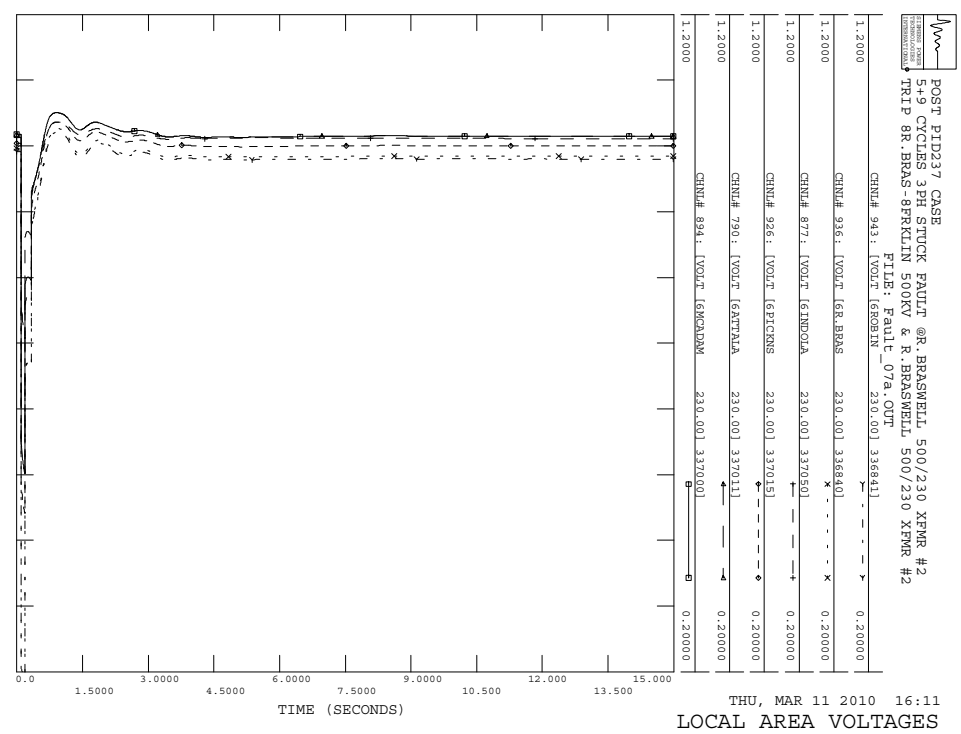
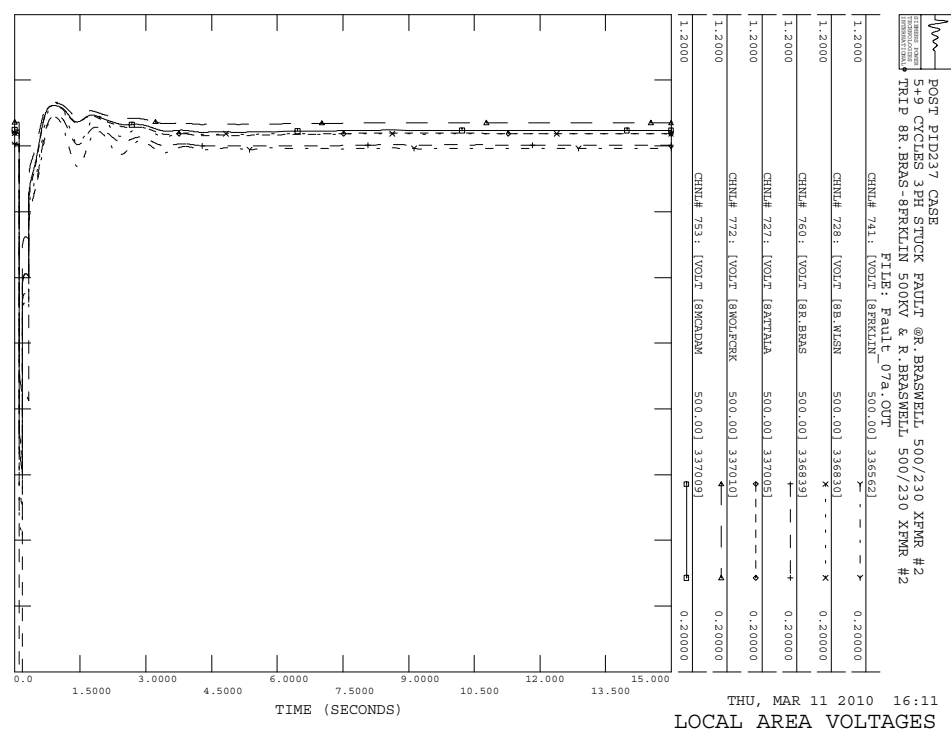




## **C.14 Fault\_07a**

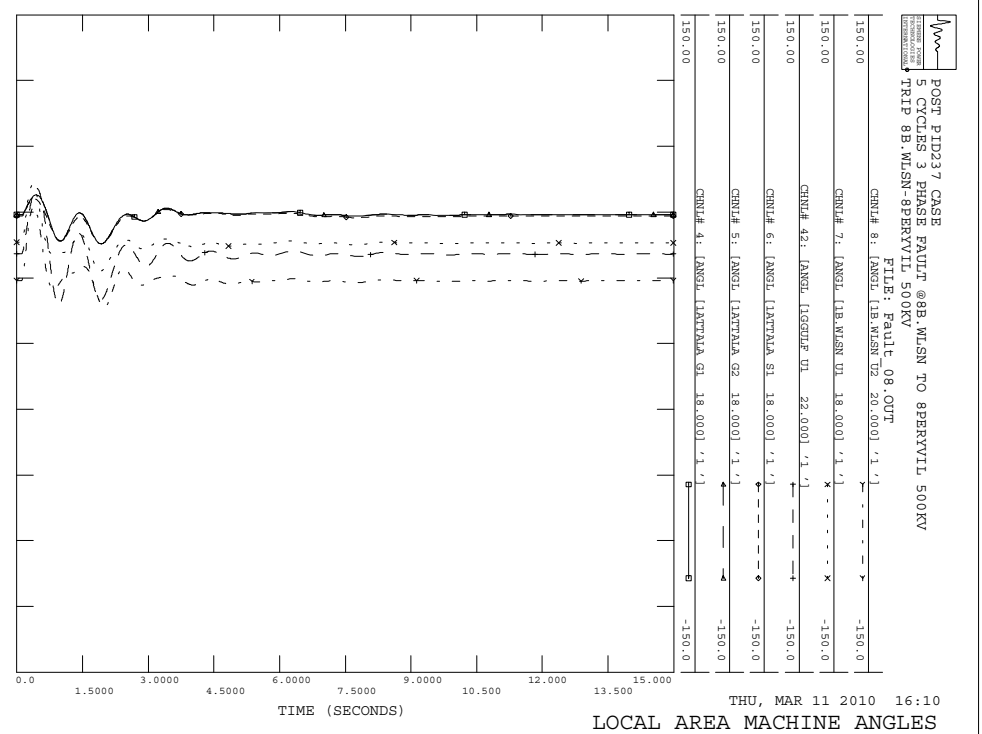
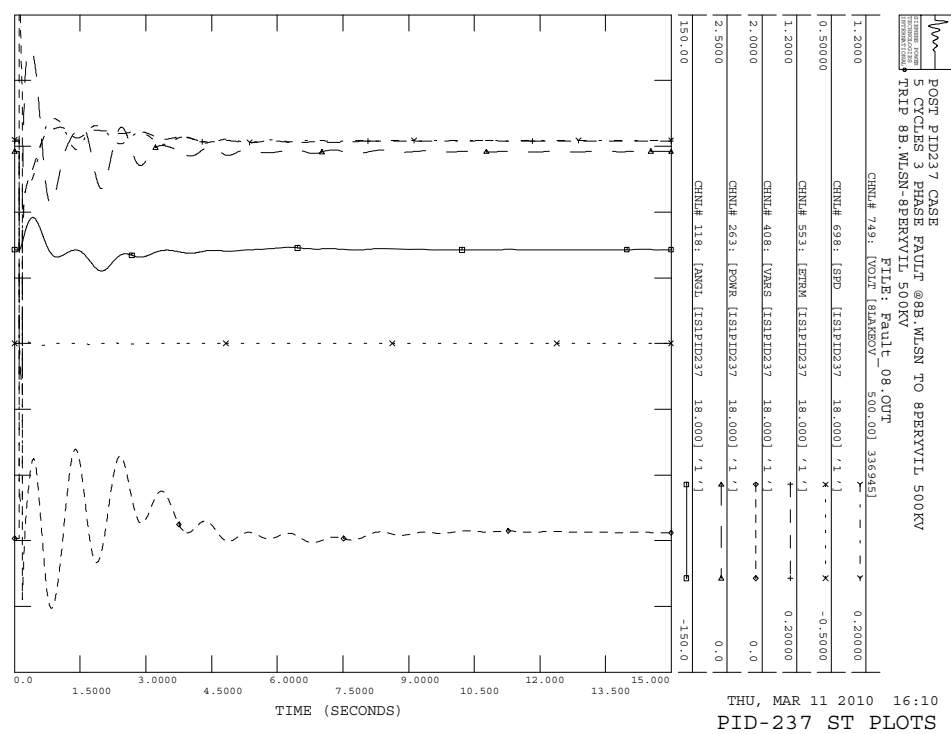
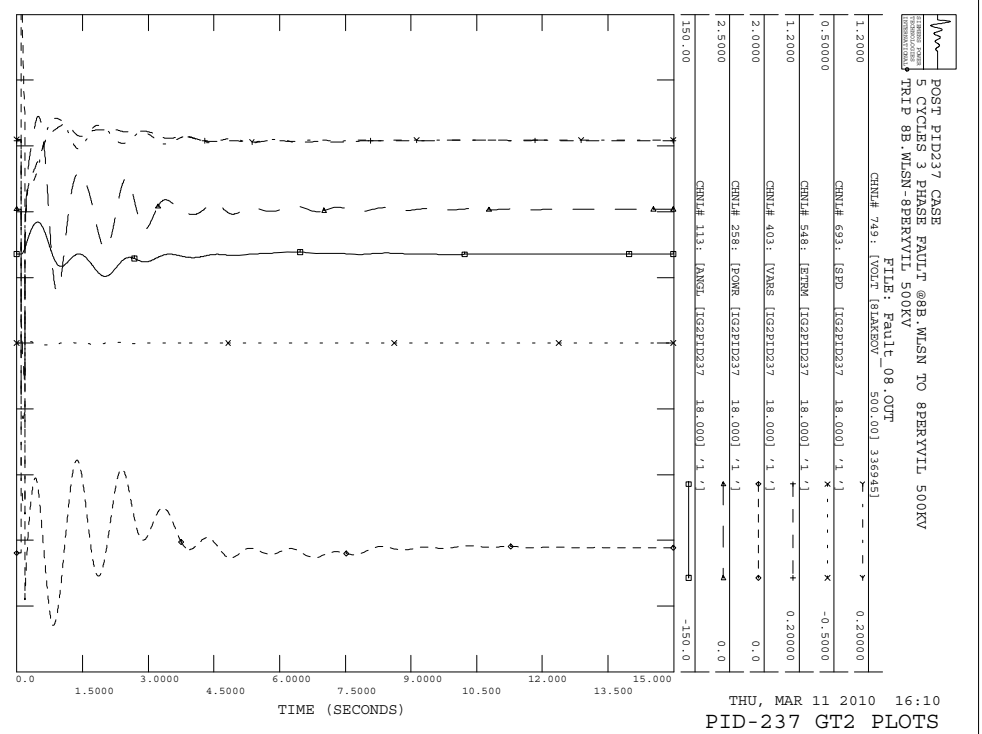
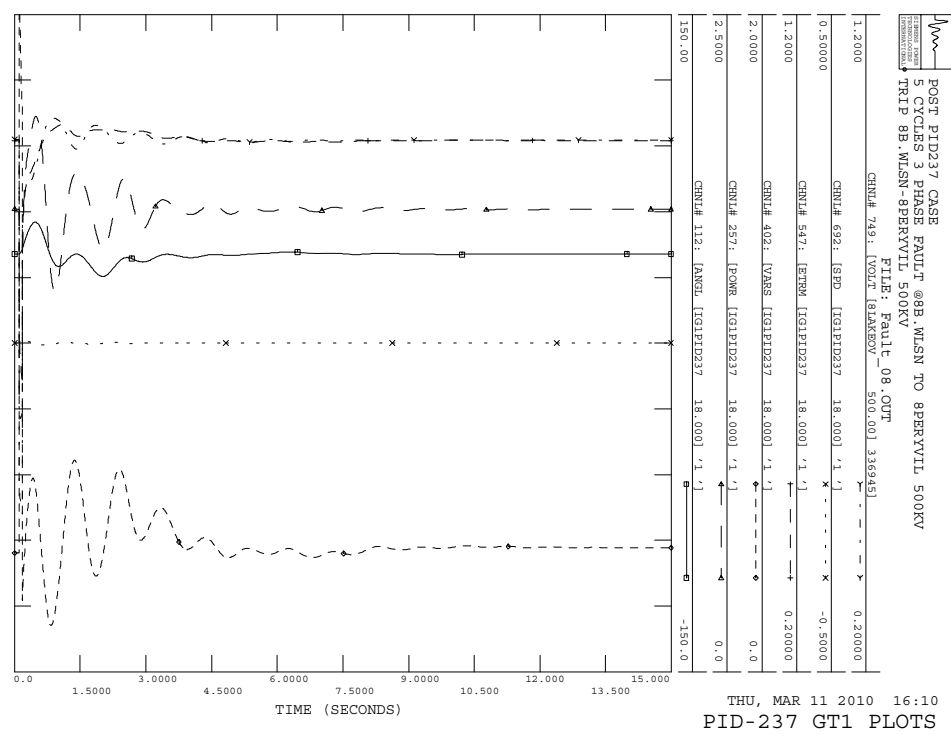
5+9 cycles 3Ph Stuck Fault @R.Braswell 500/230 Xfmr #2  
Trip 8R.BRAS-8FRKLIN 500kV & R.Braswell 500/230 Xfmr #2

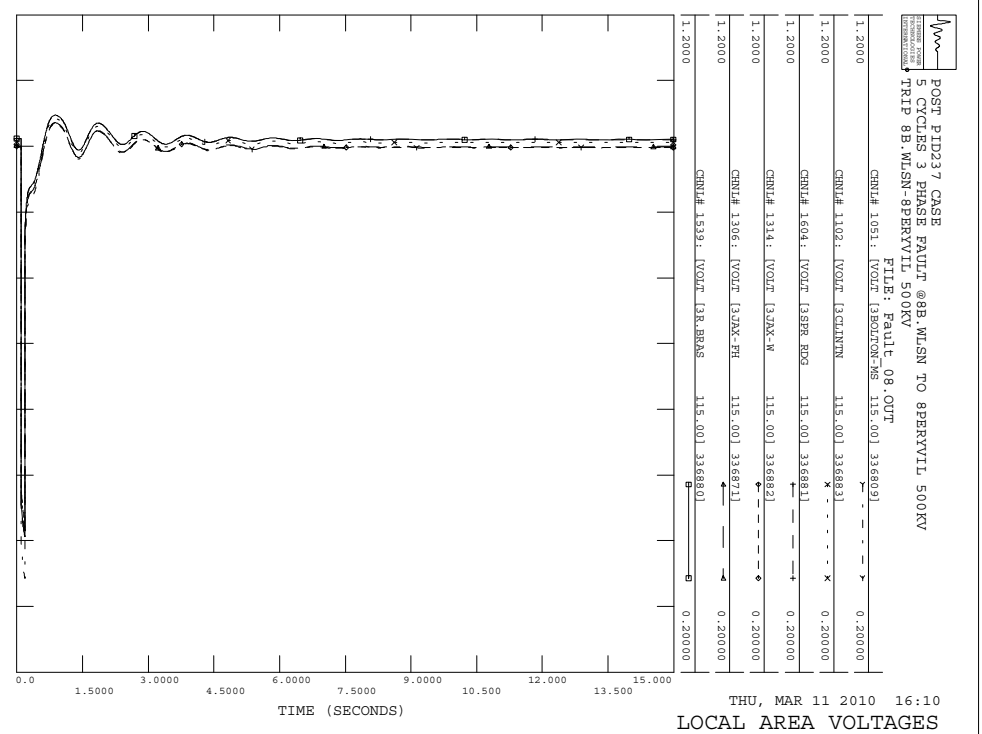
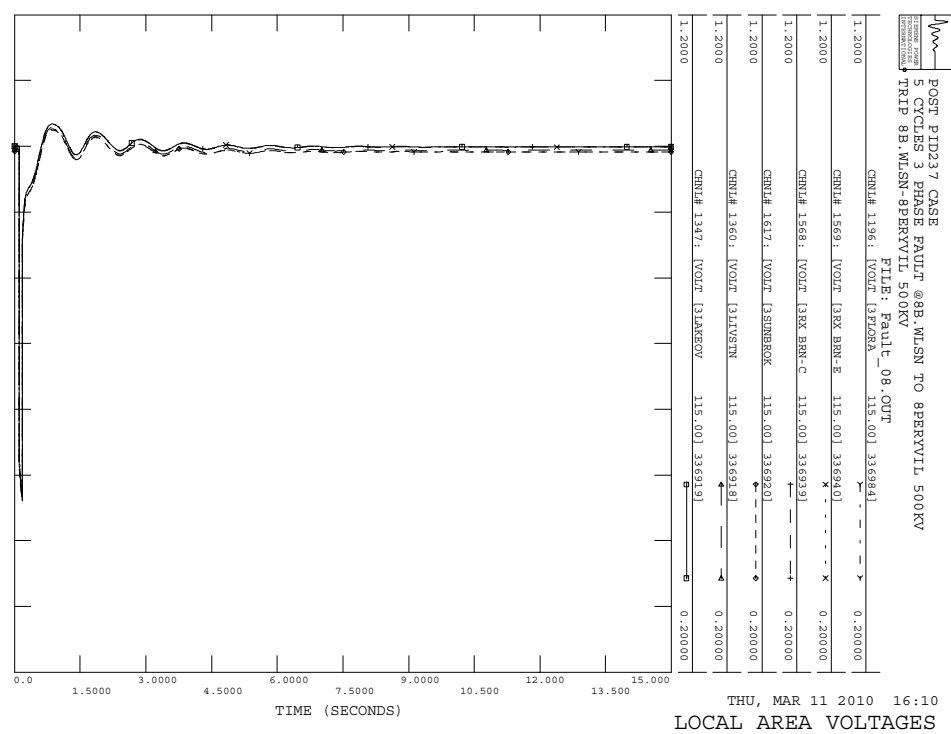
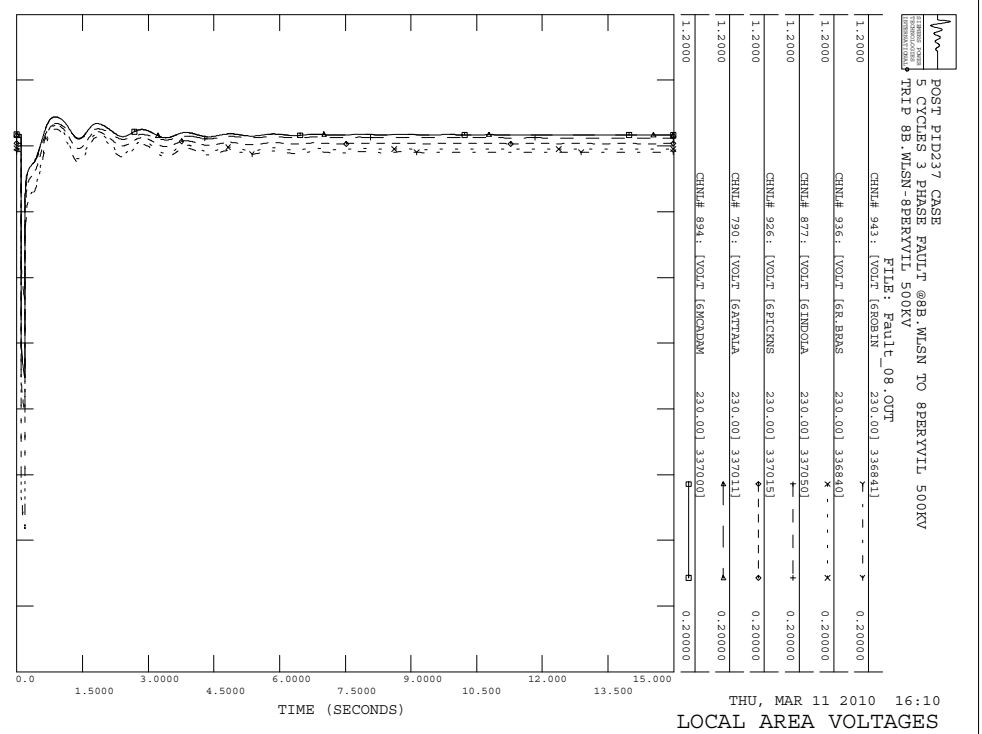
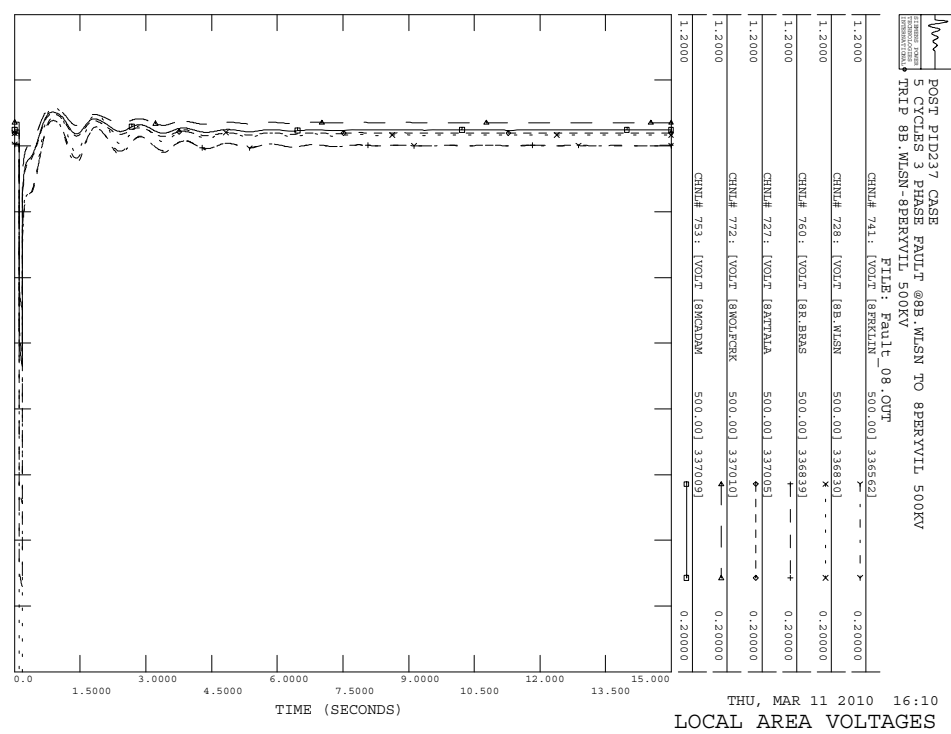




## **C.15 Fault\_08**

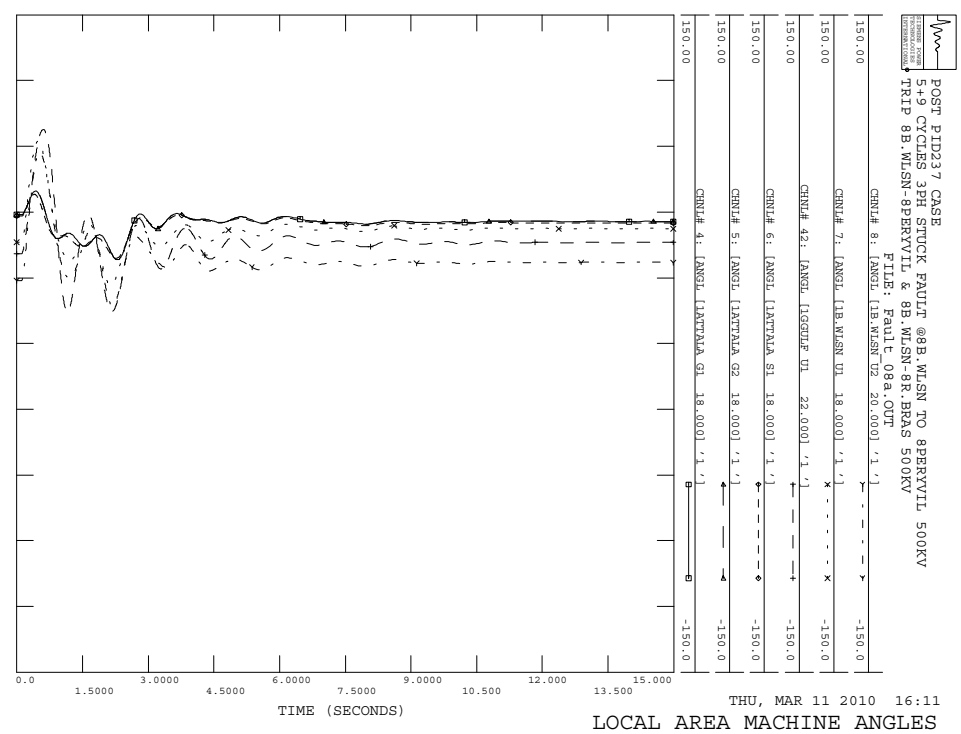
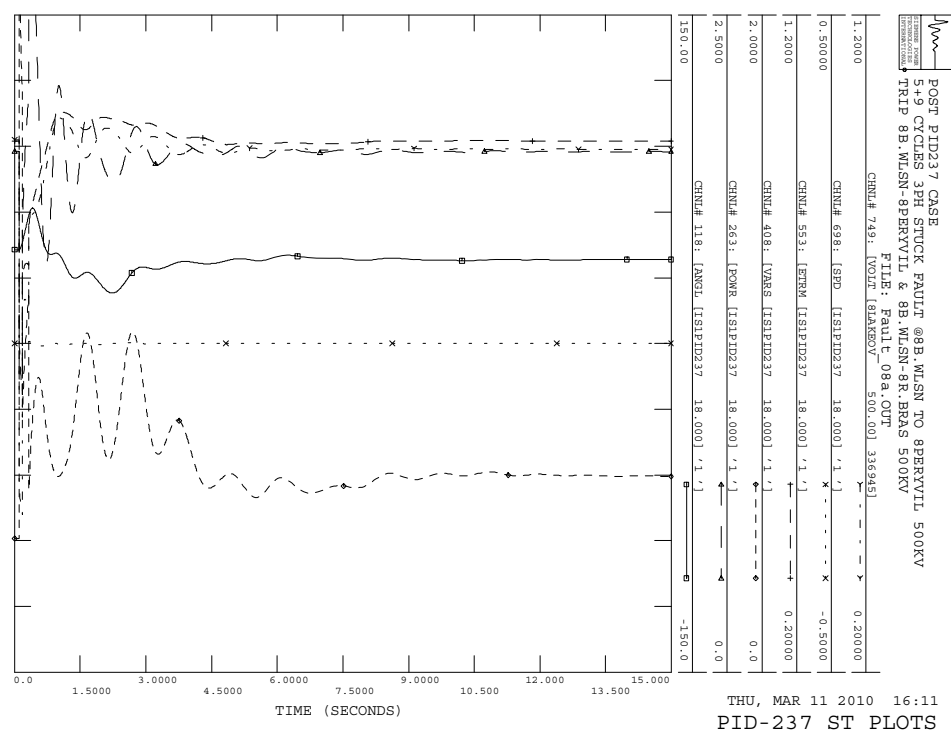
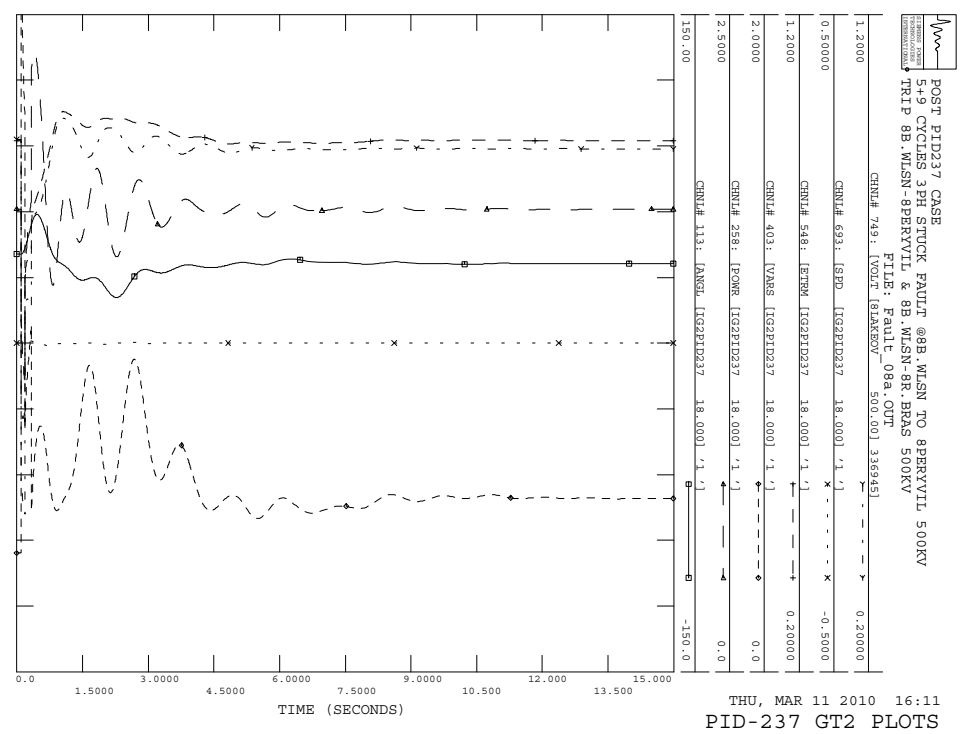
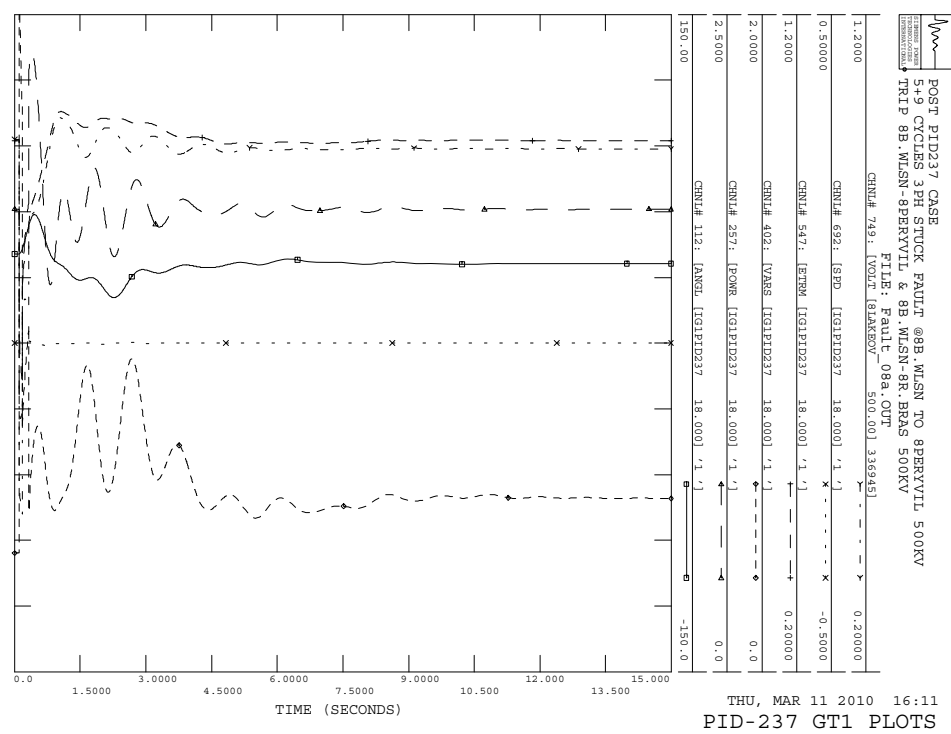
5 cycles 3 Phase Fault @8B.WLSN to 8PERYVIL 500kV  
Trip 8B.WLSN-8PERYVIL 500kV



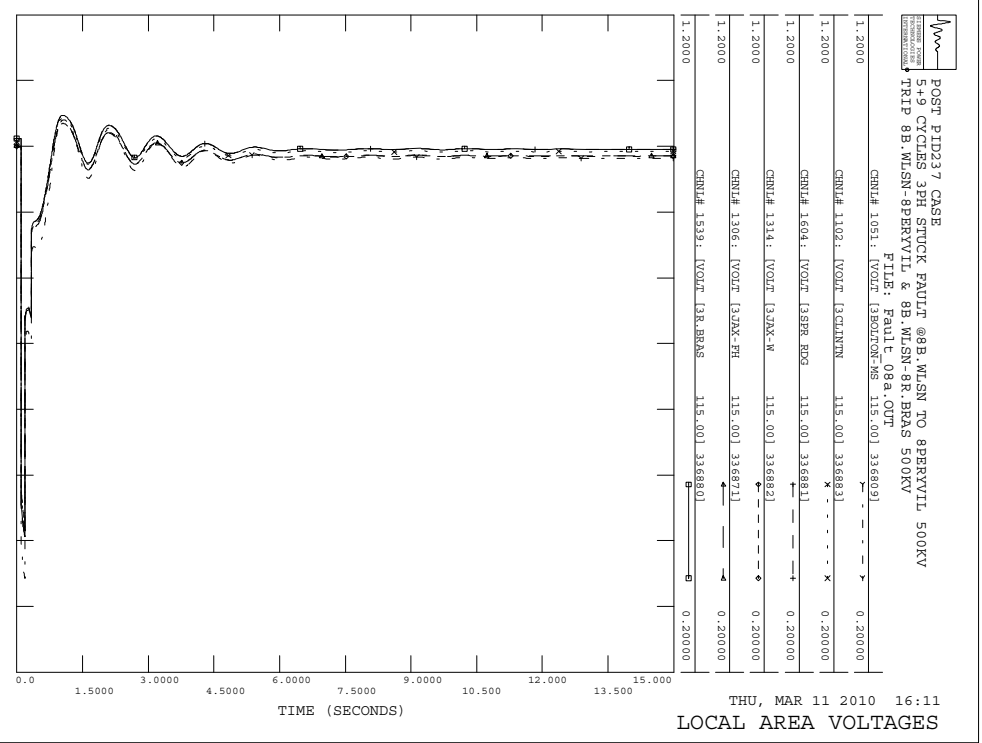
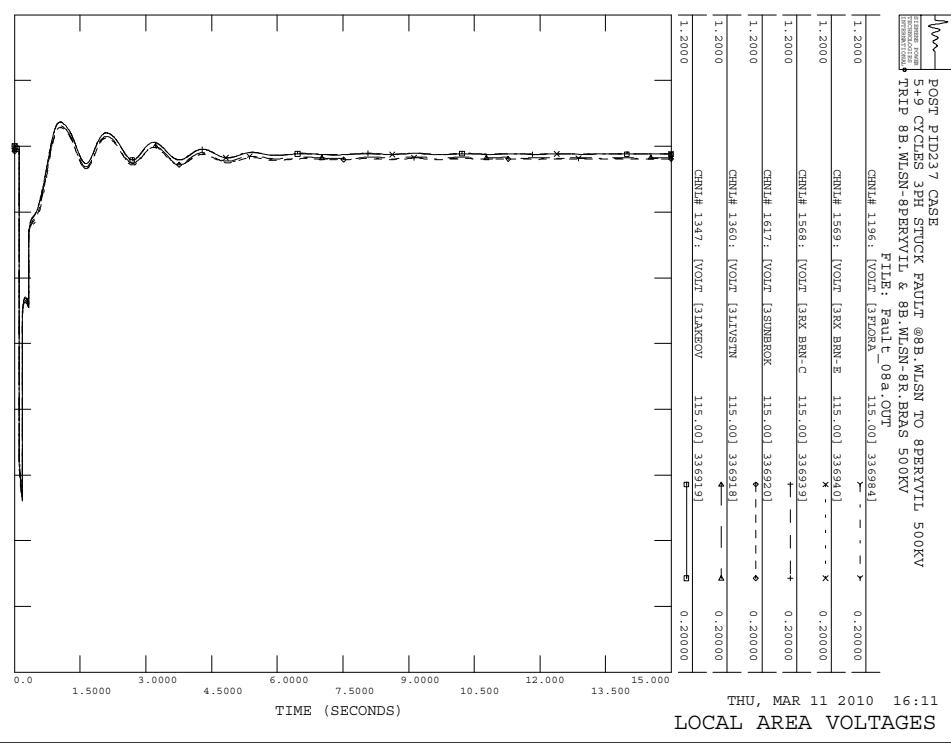
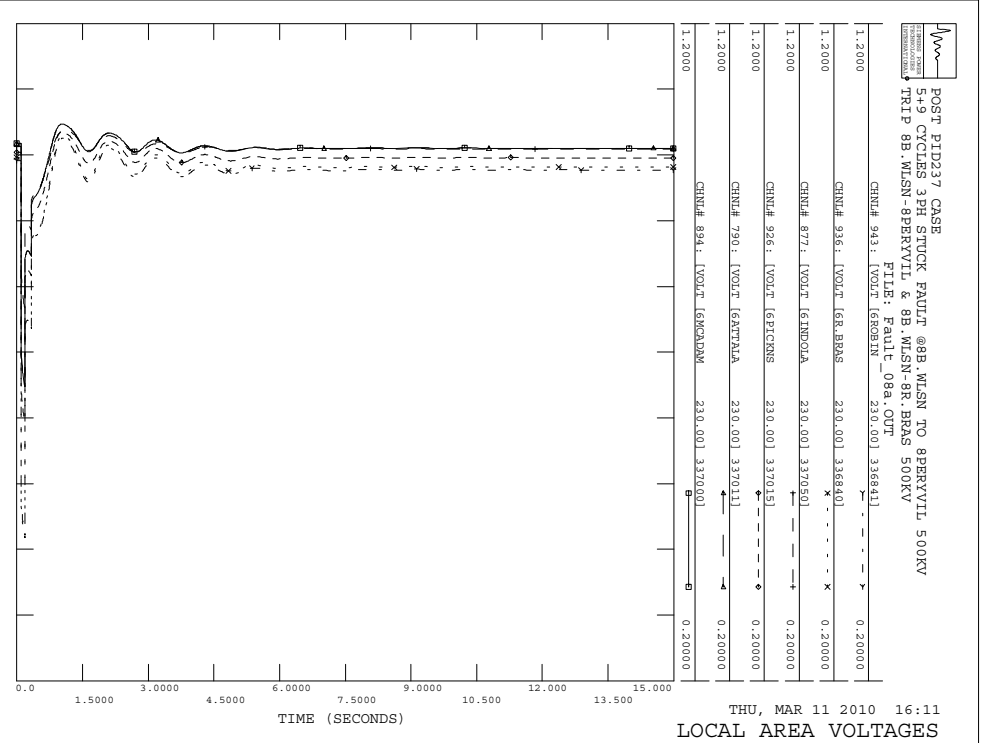
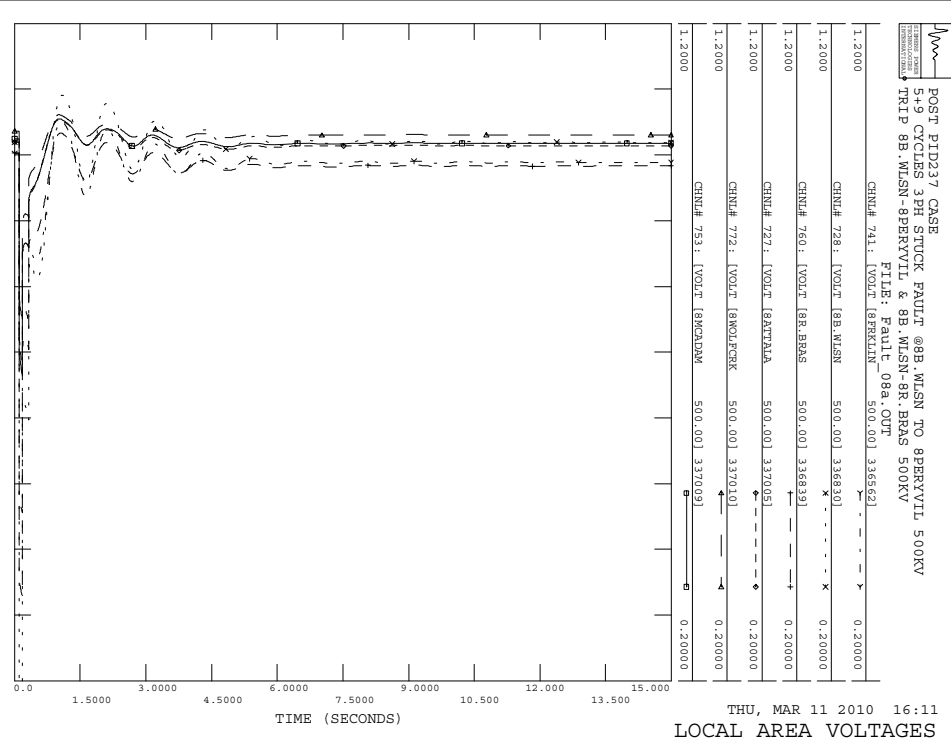


## **C.16 Fault\_08a**

5+9 cycles 3Ph Stuck Fault @8B.WLSN to 8PERYVIL 500kV  
Trip 8B.WLSN-8PERYVIL & 8B.WLSN-8R.BRAS 500kV

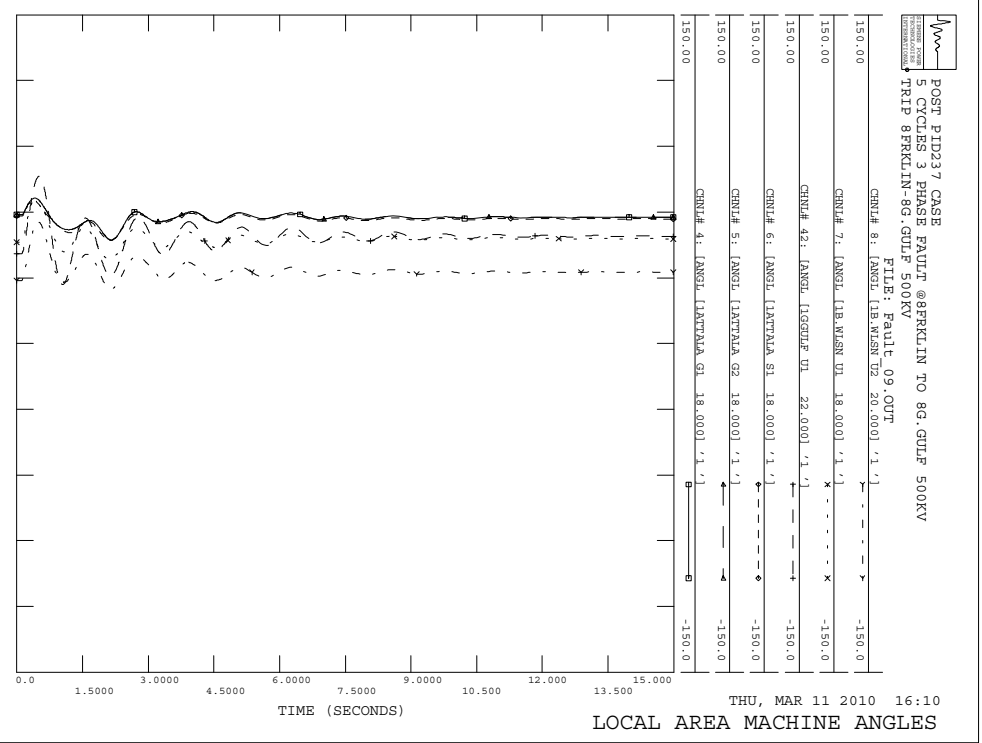
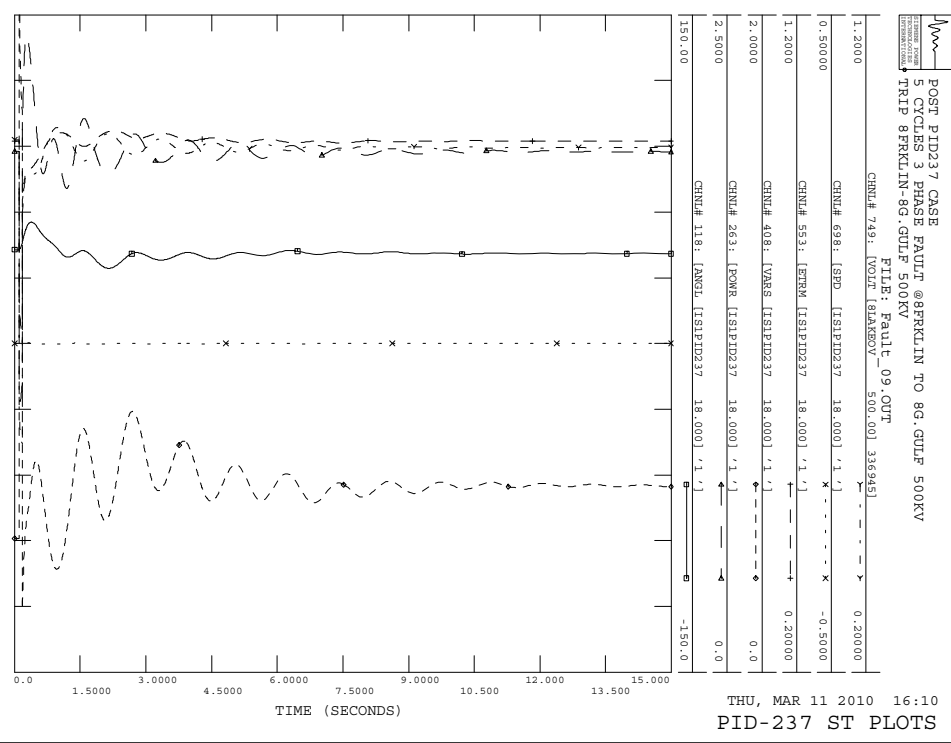
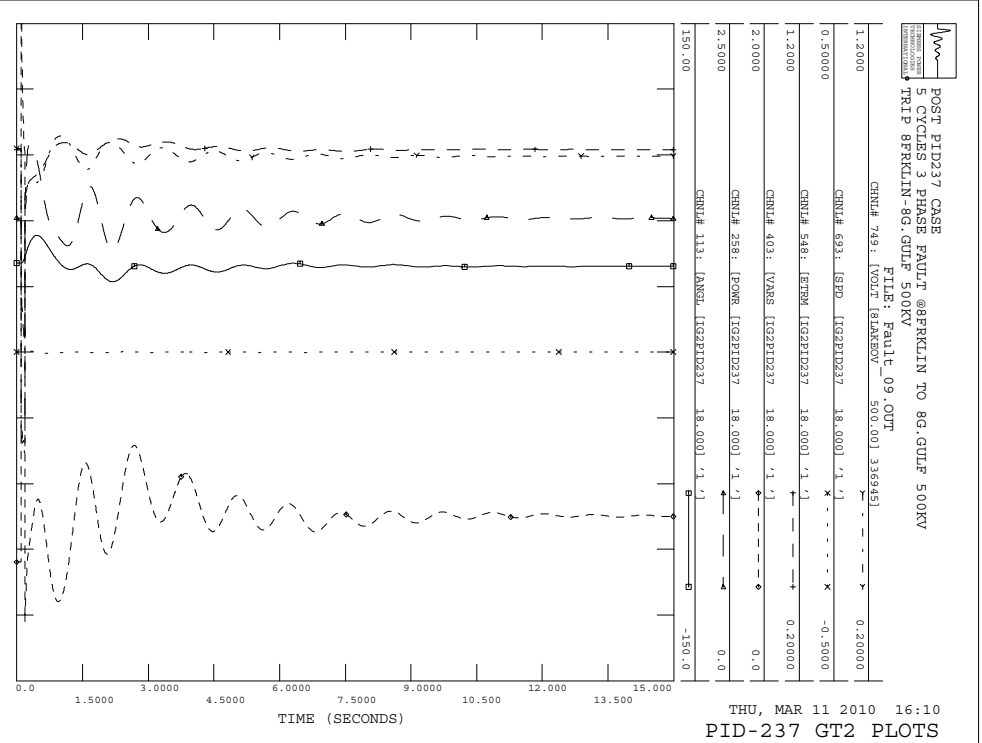
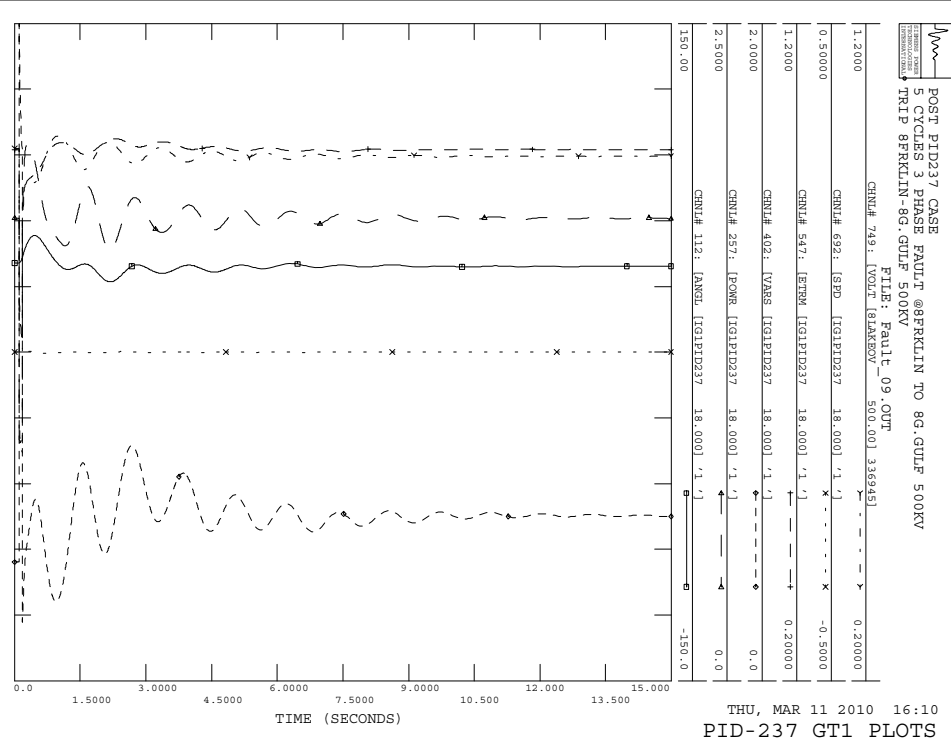


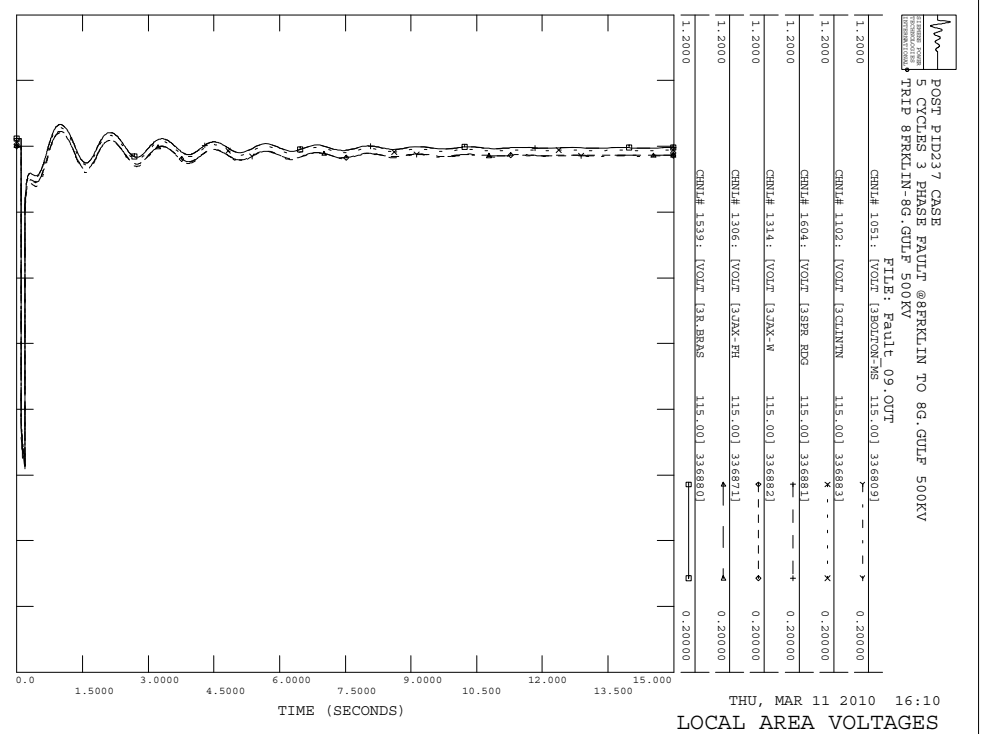
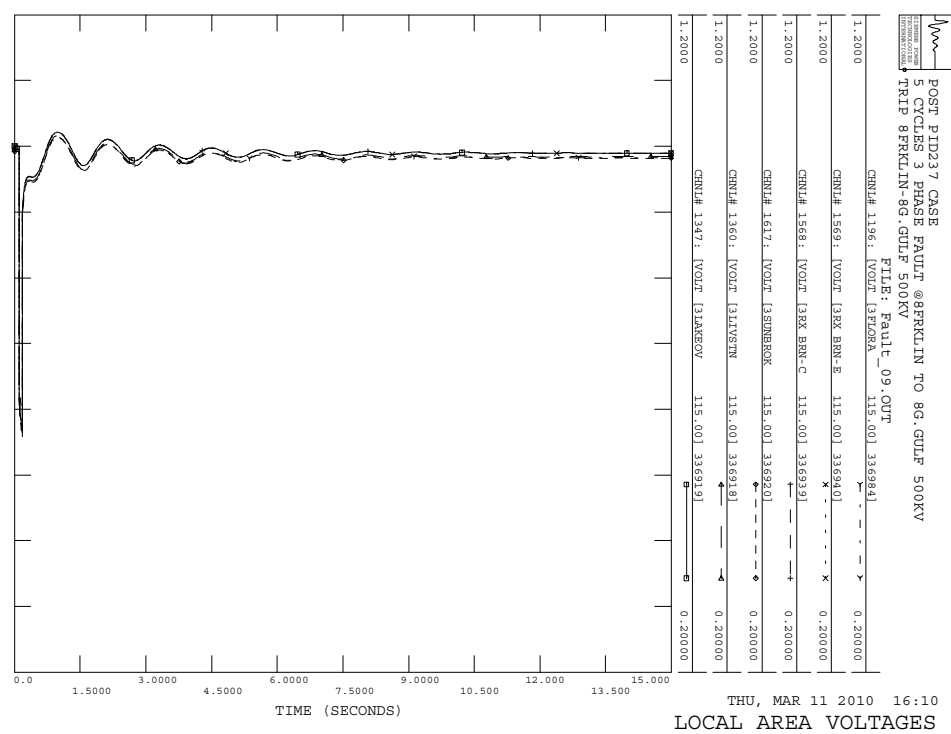
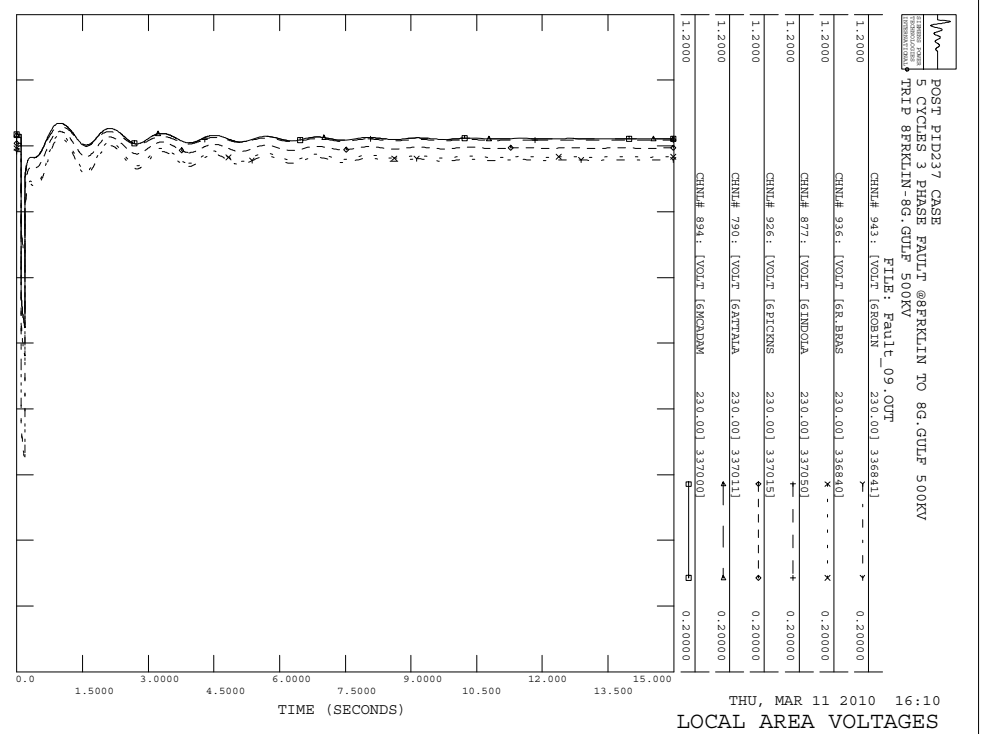
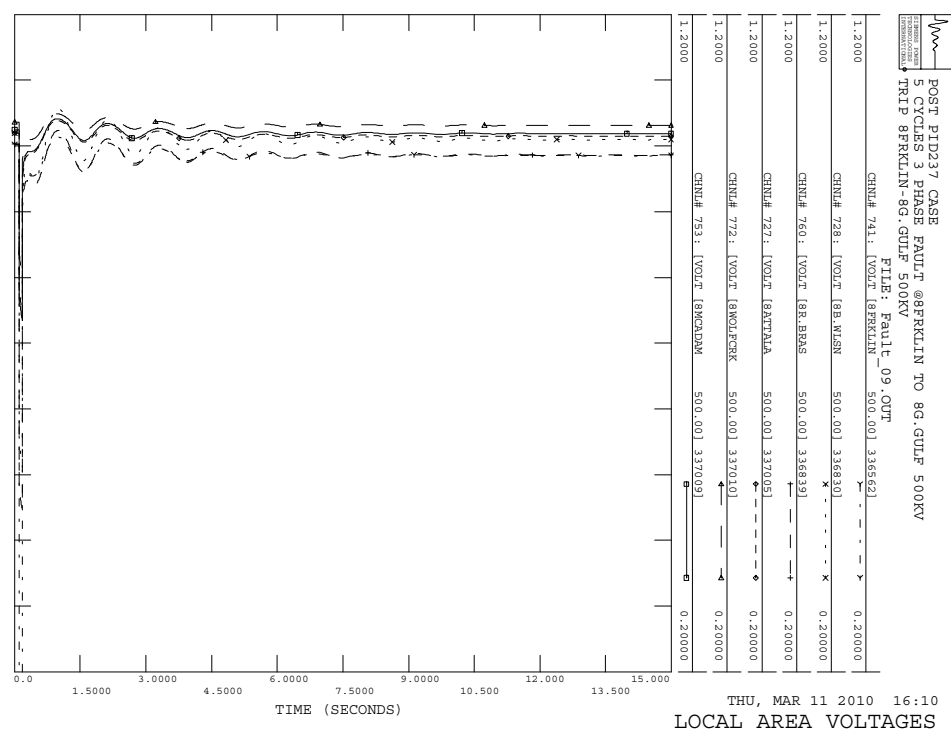




## **C.17 Fault\_09**

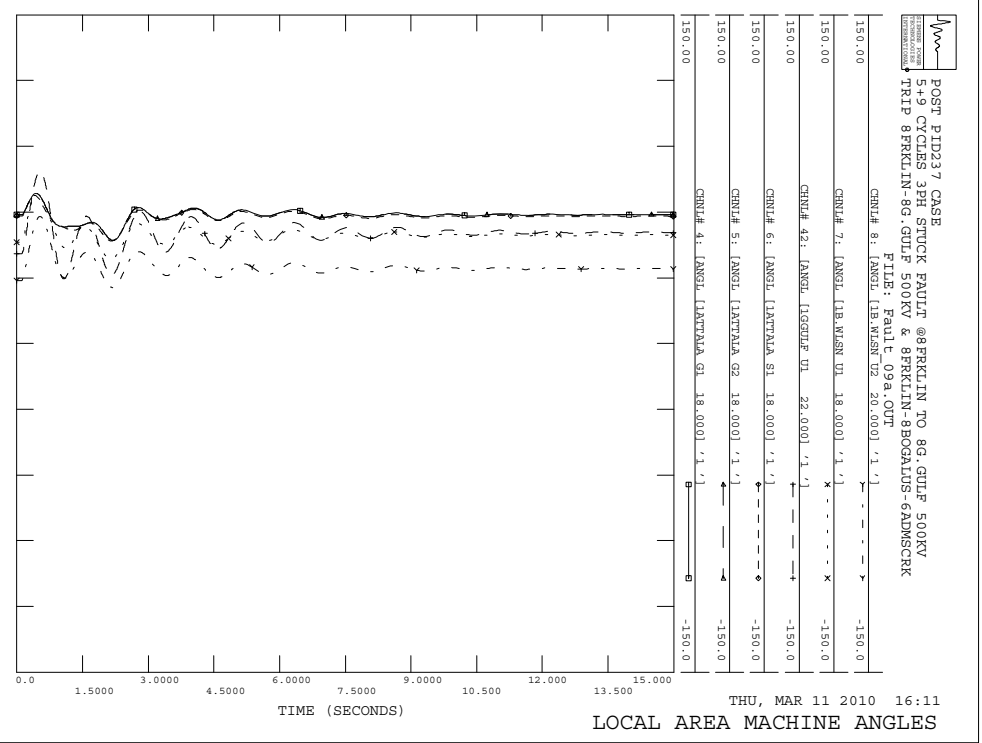
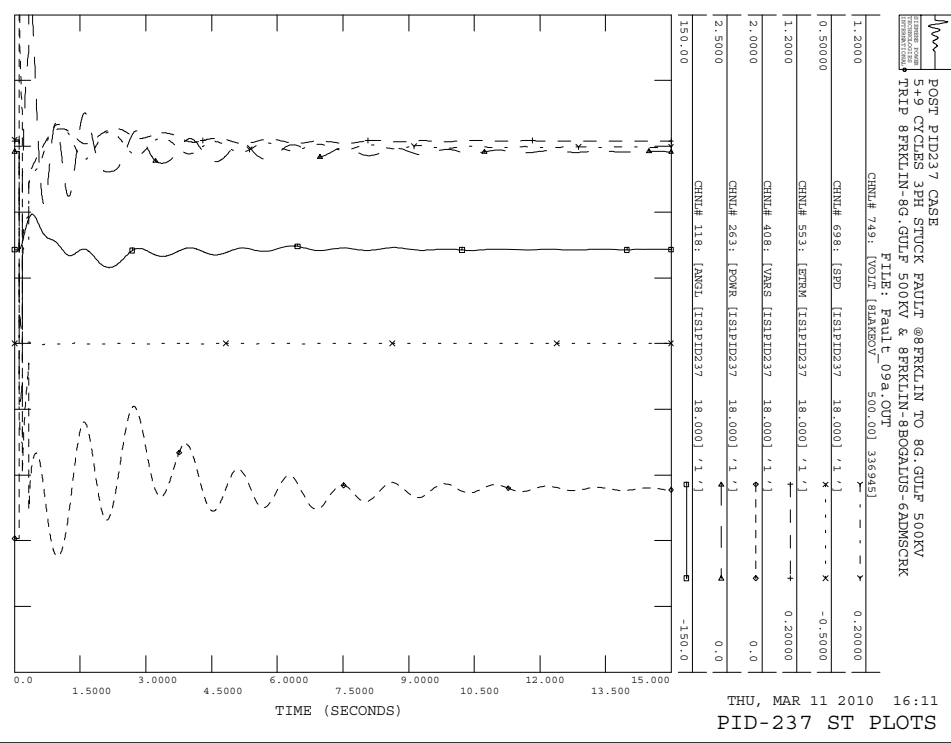
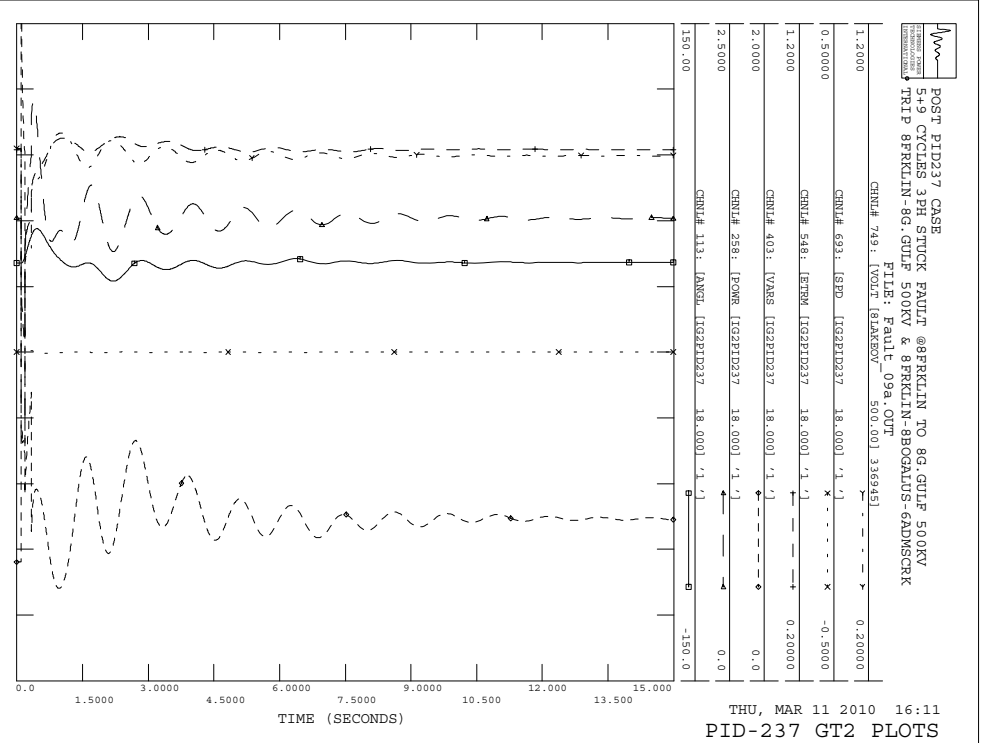
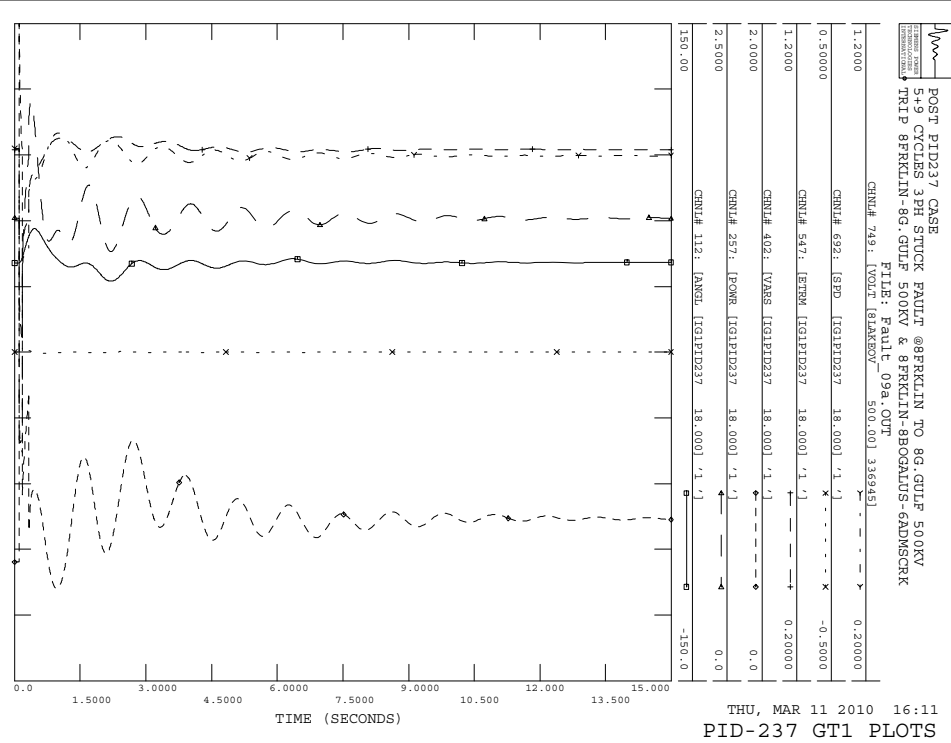
5 cycles 3 Phase Fault @8FRKLIN to 8G.GULF 500kV  
Trip 8FRKLIN-8G.GULF 500kV

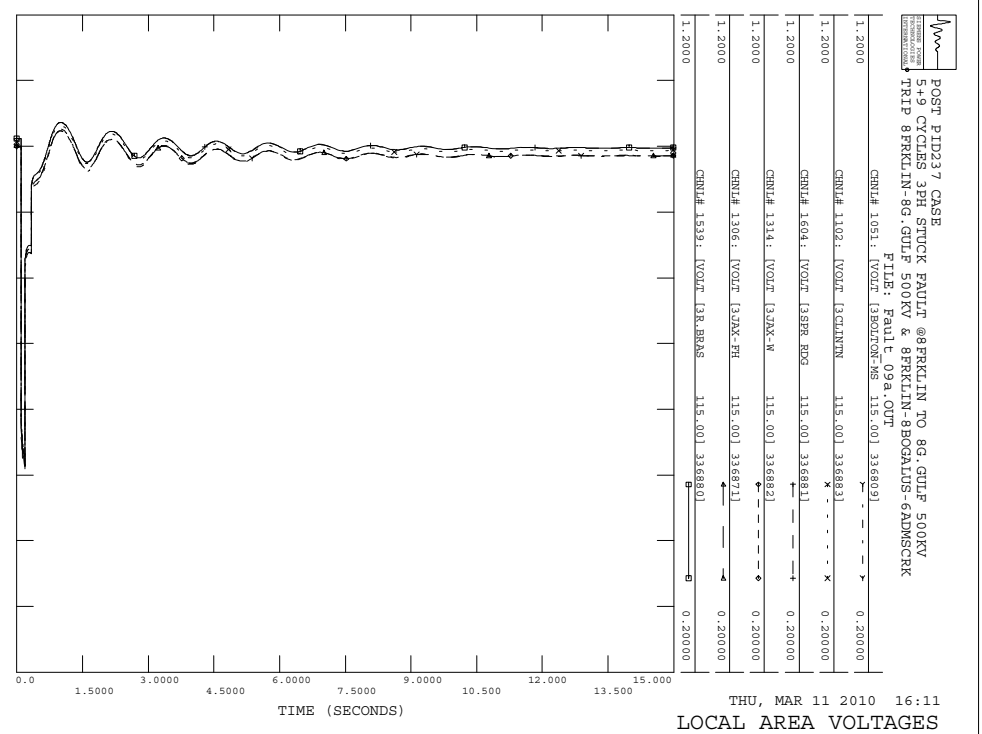
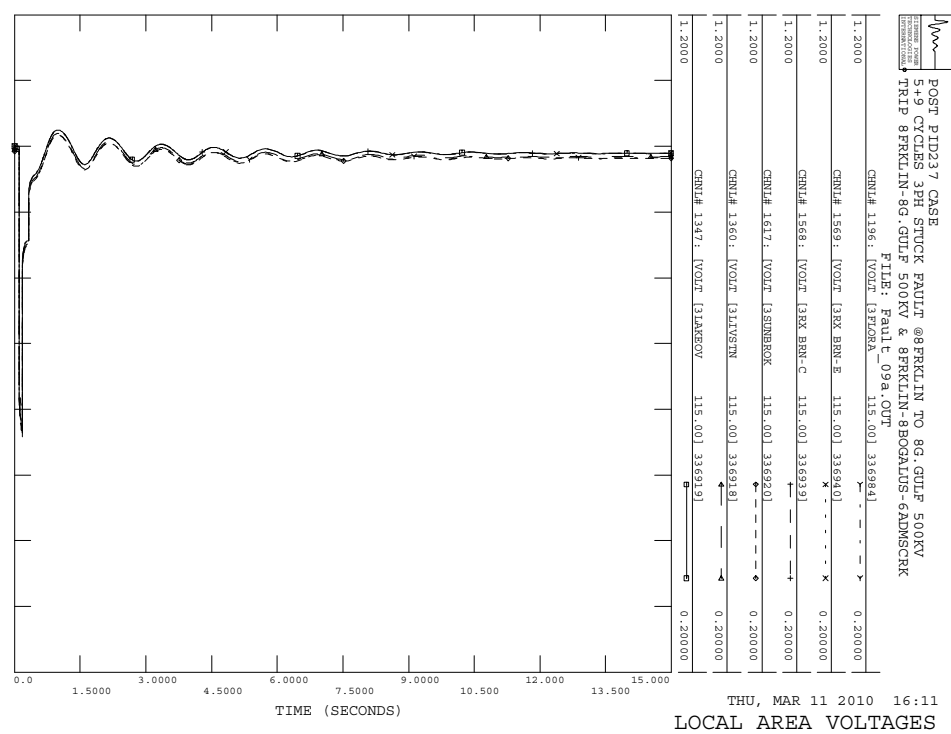
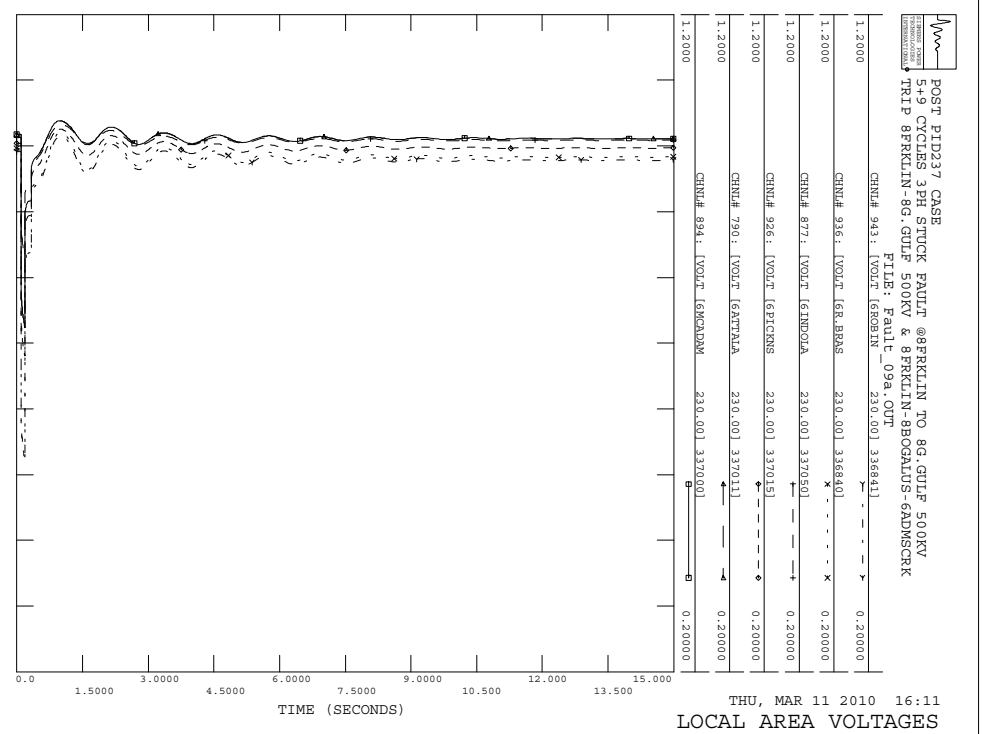
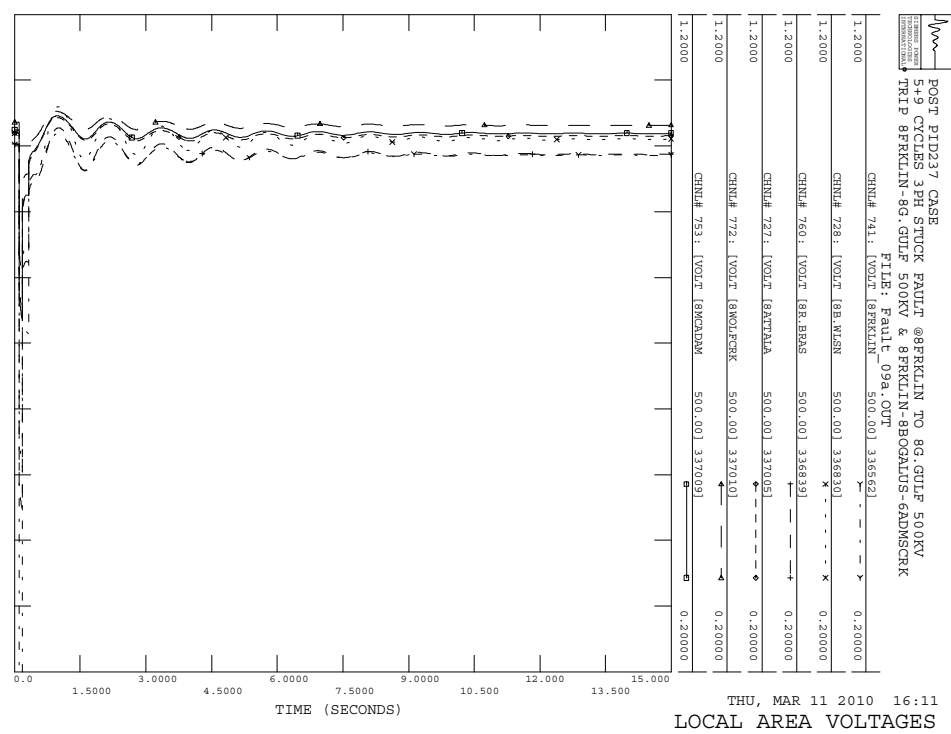




## **C.18 Fault\_09a**

5+9 cycles 3Ph Stuck Fault @8FRKLIN to 8G.GULF 500kV  
Trip 8FRKLIN-8G.GULF 500kV & 8FRKLIN-8BOGALUS-6ADMSCRK

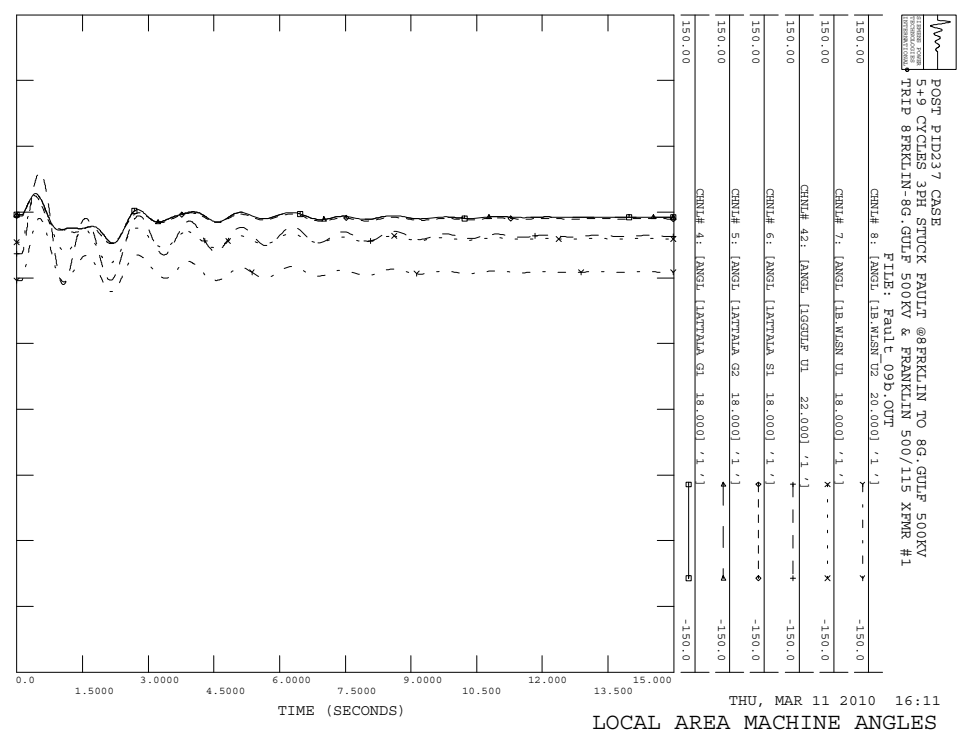
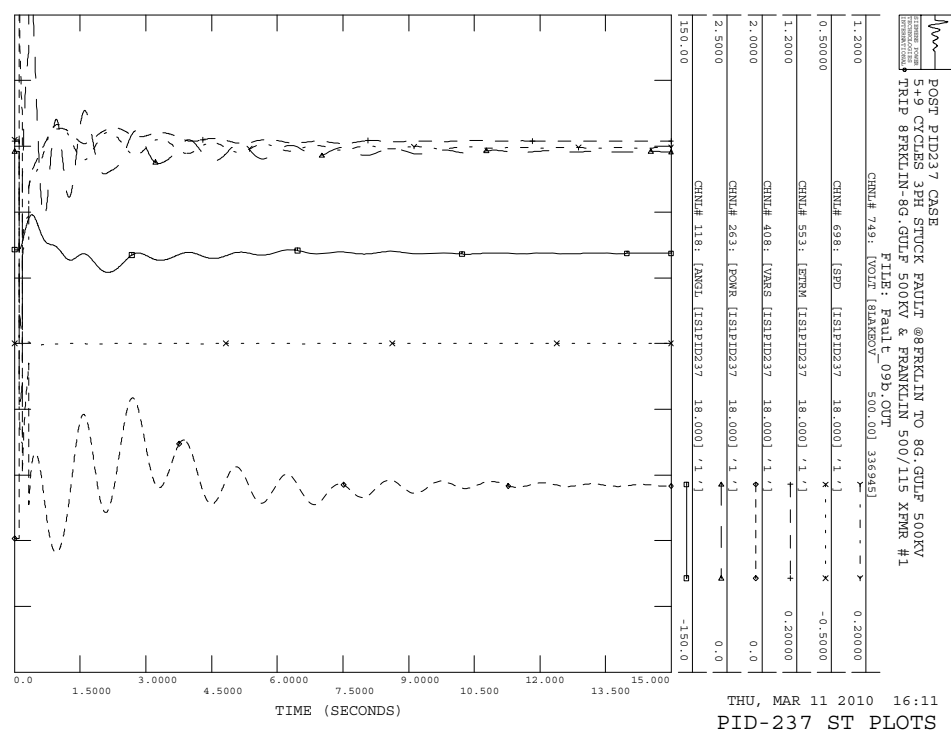
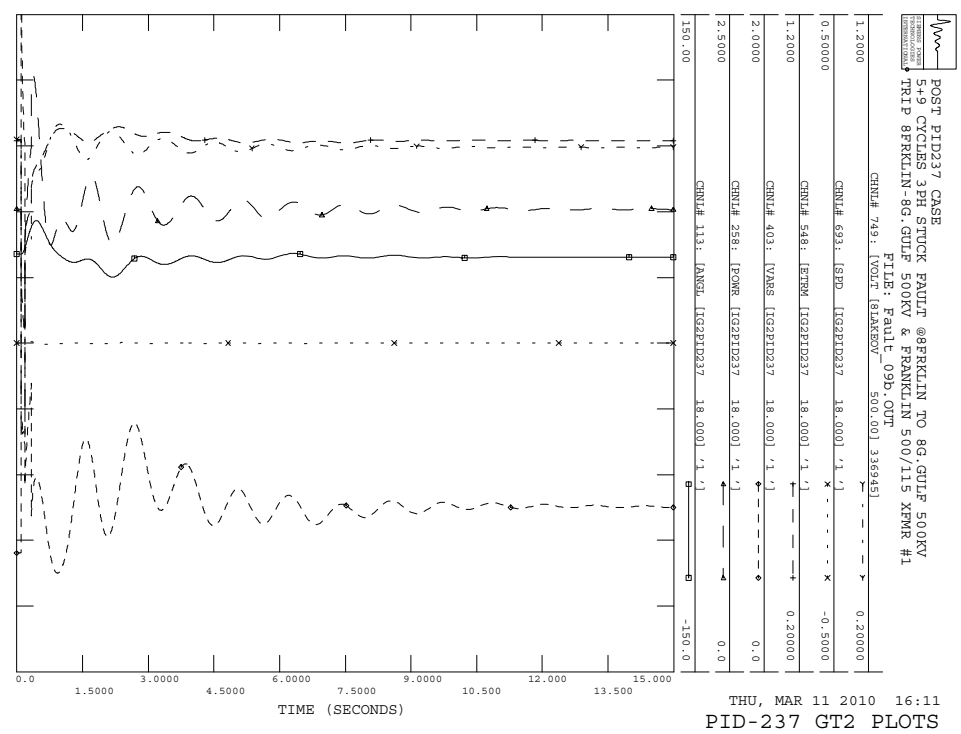
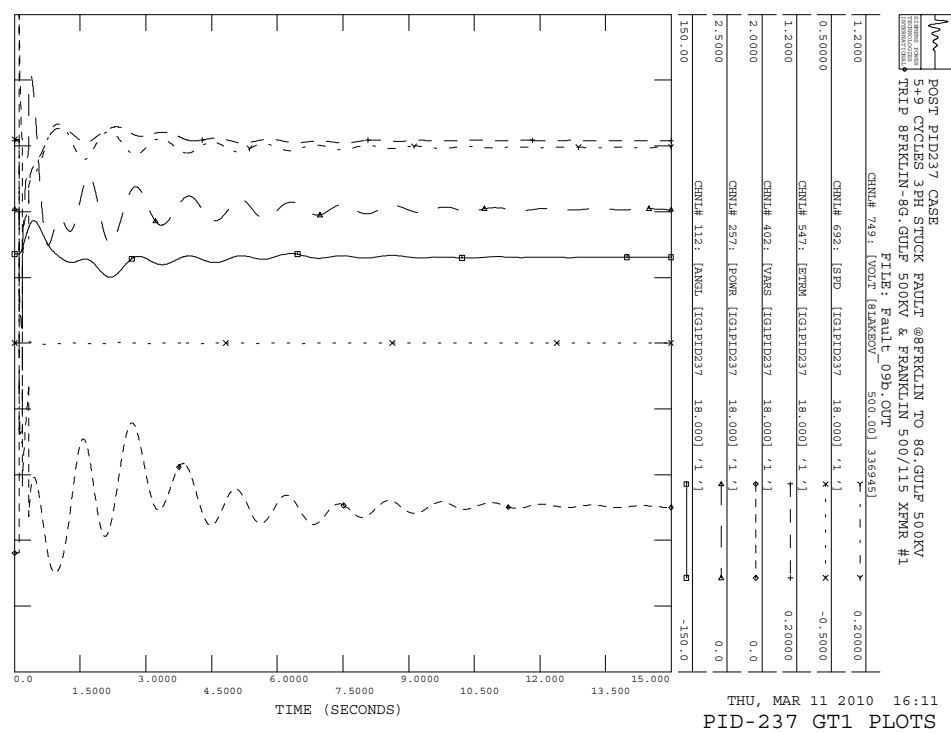


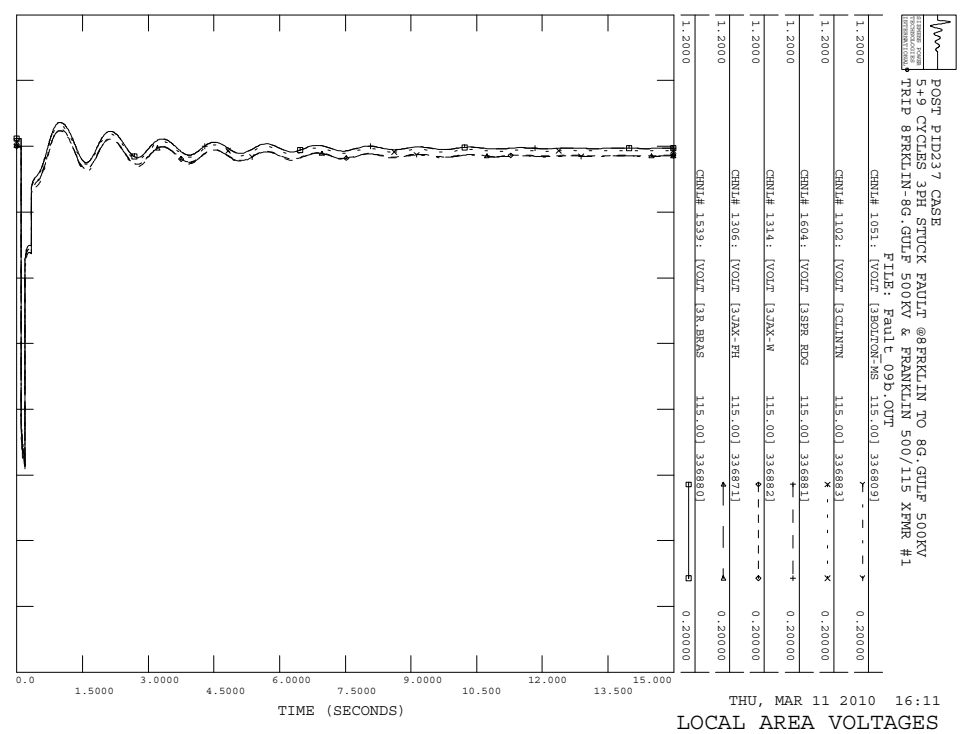
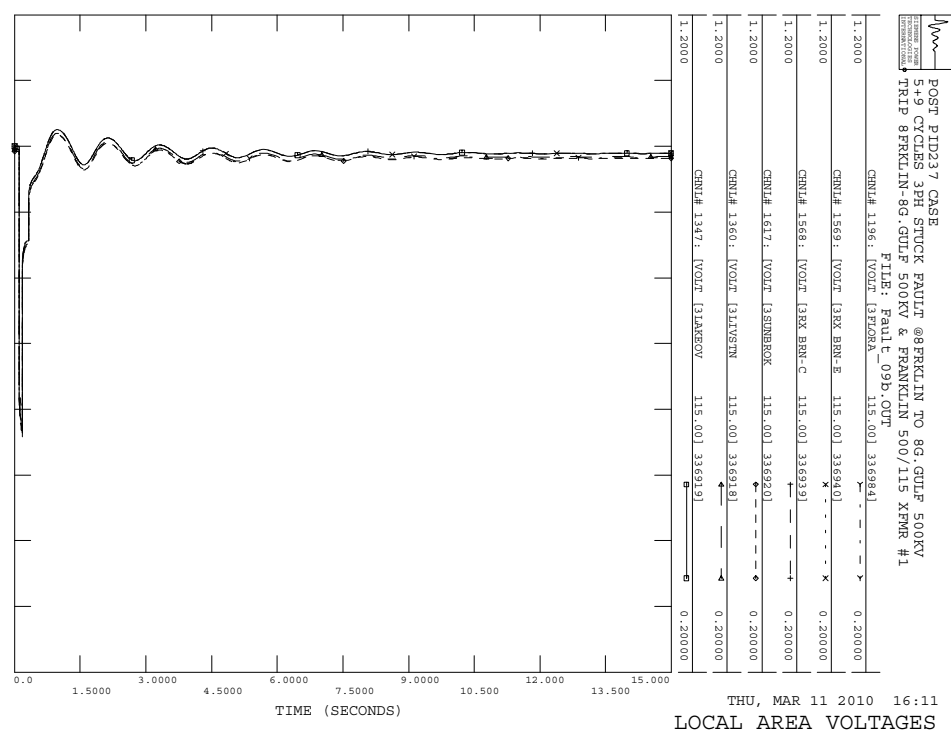
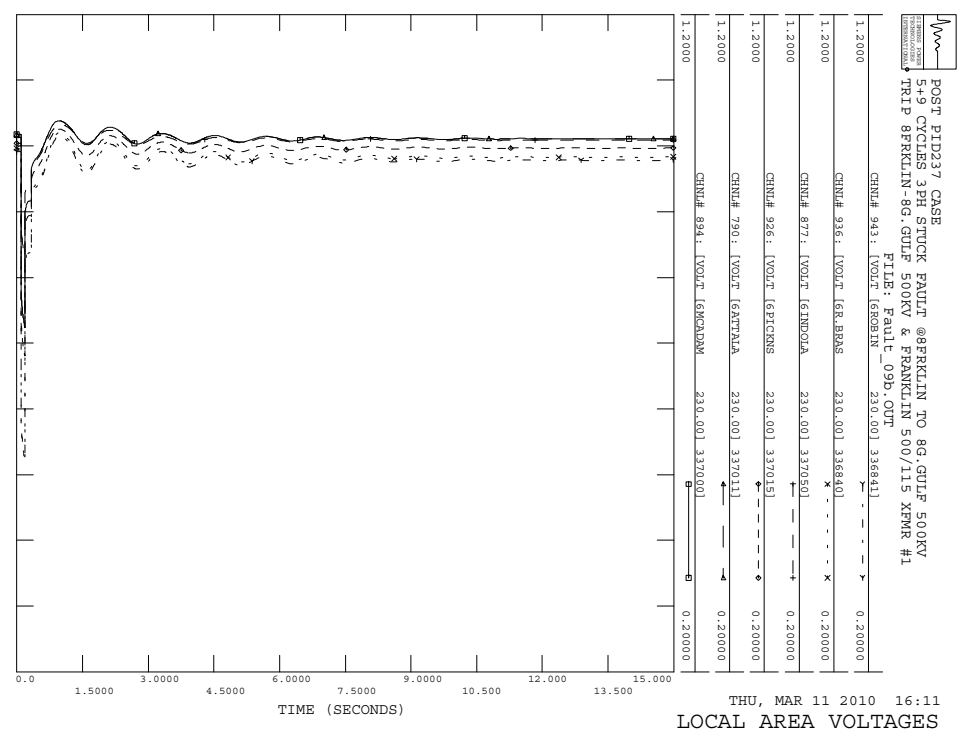
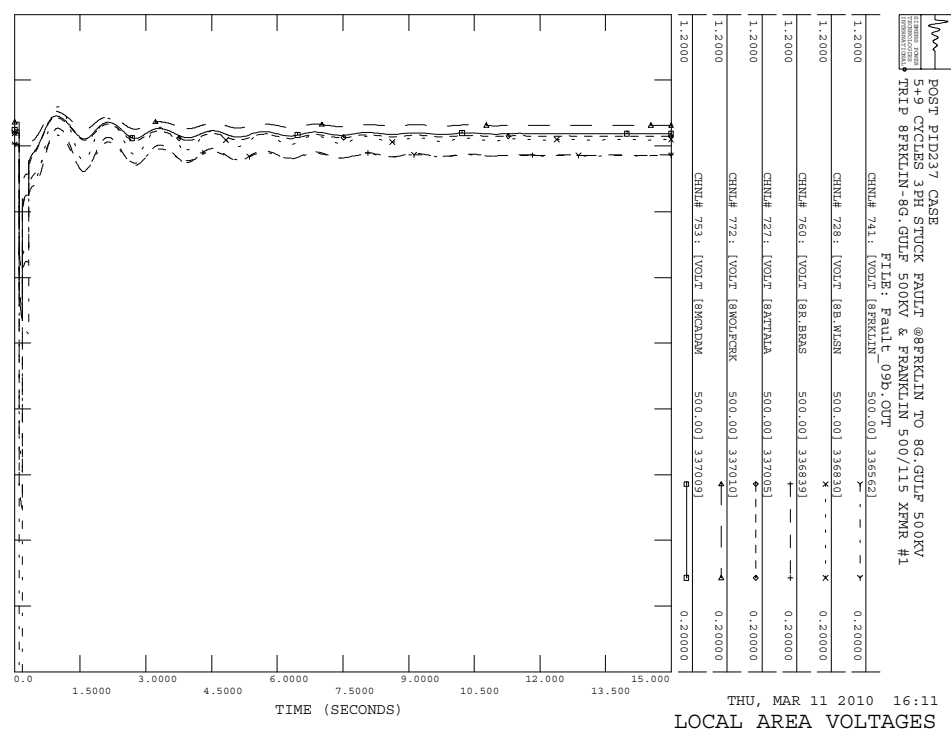


## **C.19 Fault\_09b**

5+9 cycles 3Ph Stuck Fault @8FRKLIN to 8G.GULF 500kV  
Trip 8FRKLIN-8G.GULF 500kV & Franklin 500/115 Xfmr #1

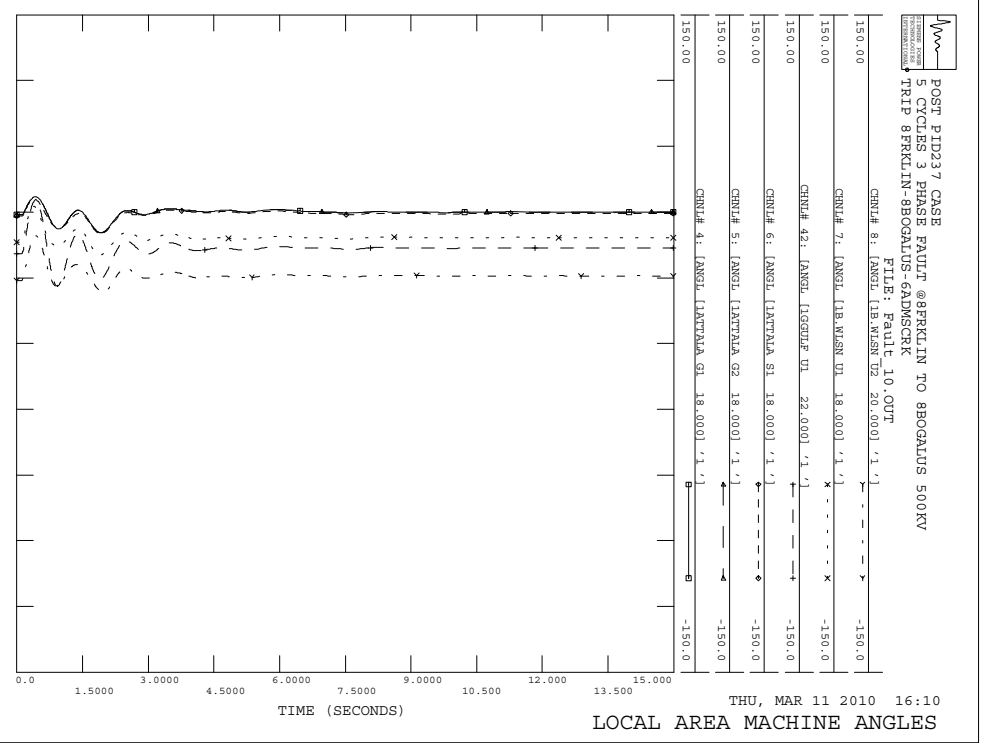
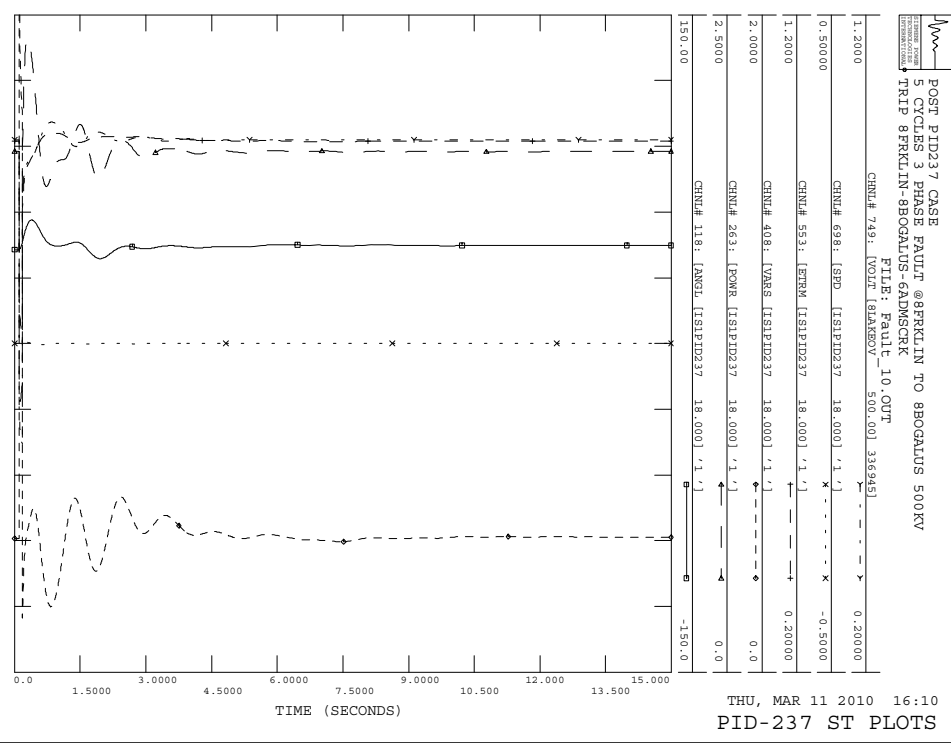
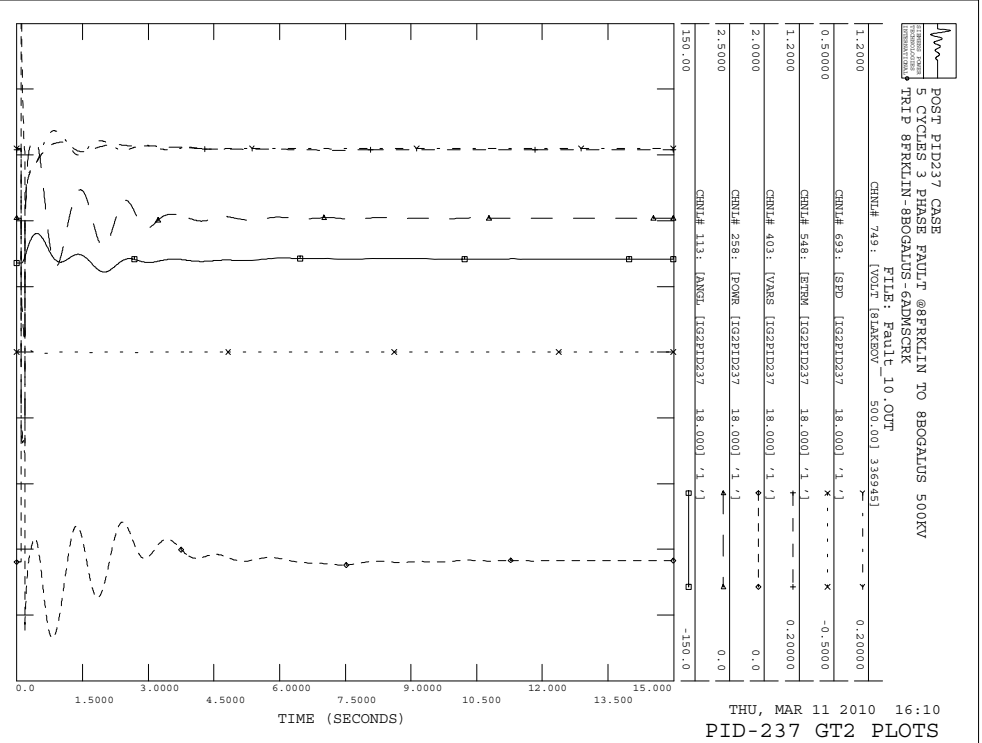
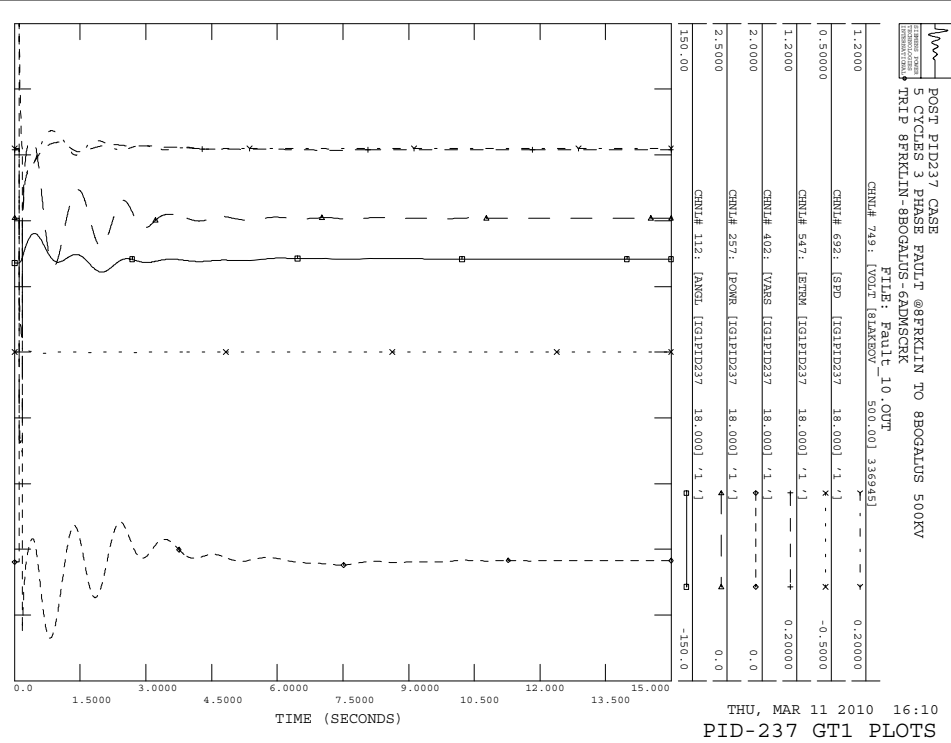


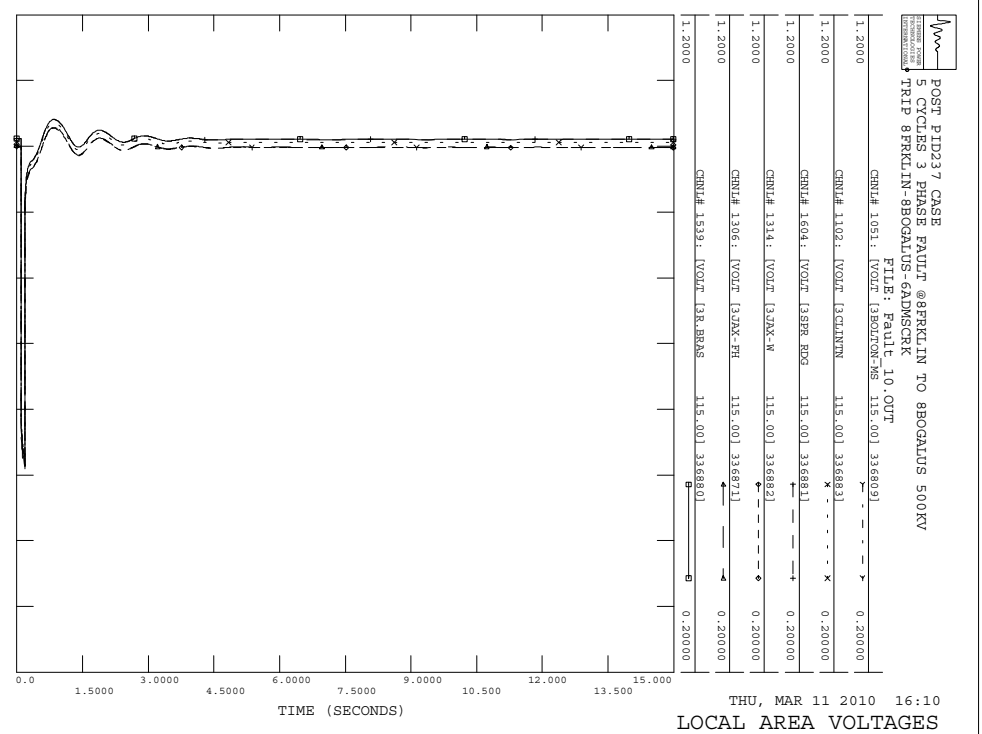
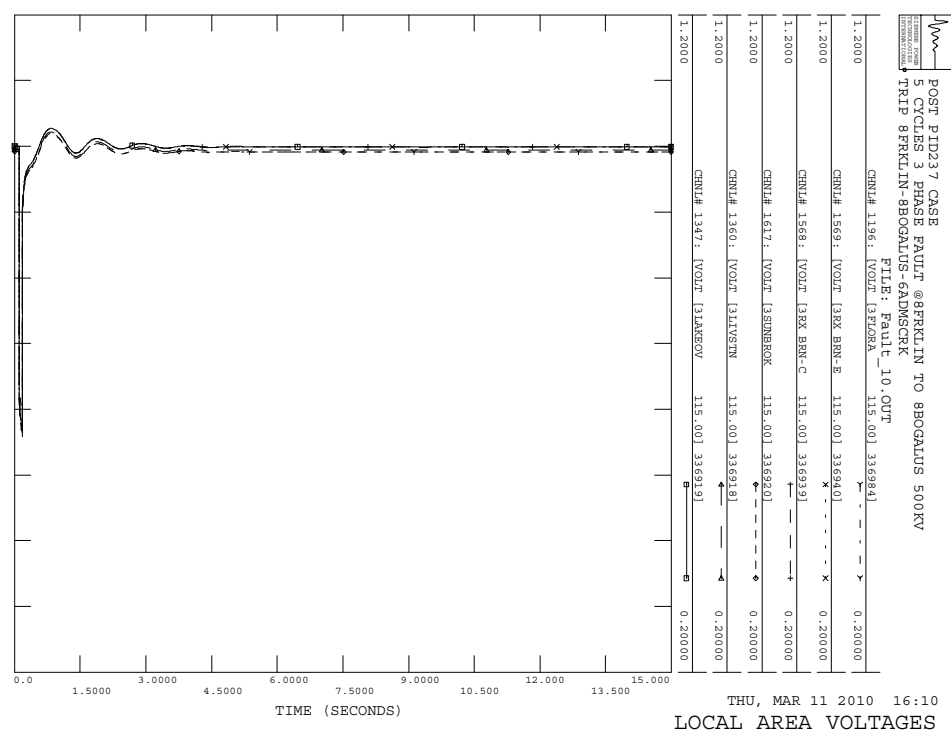
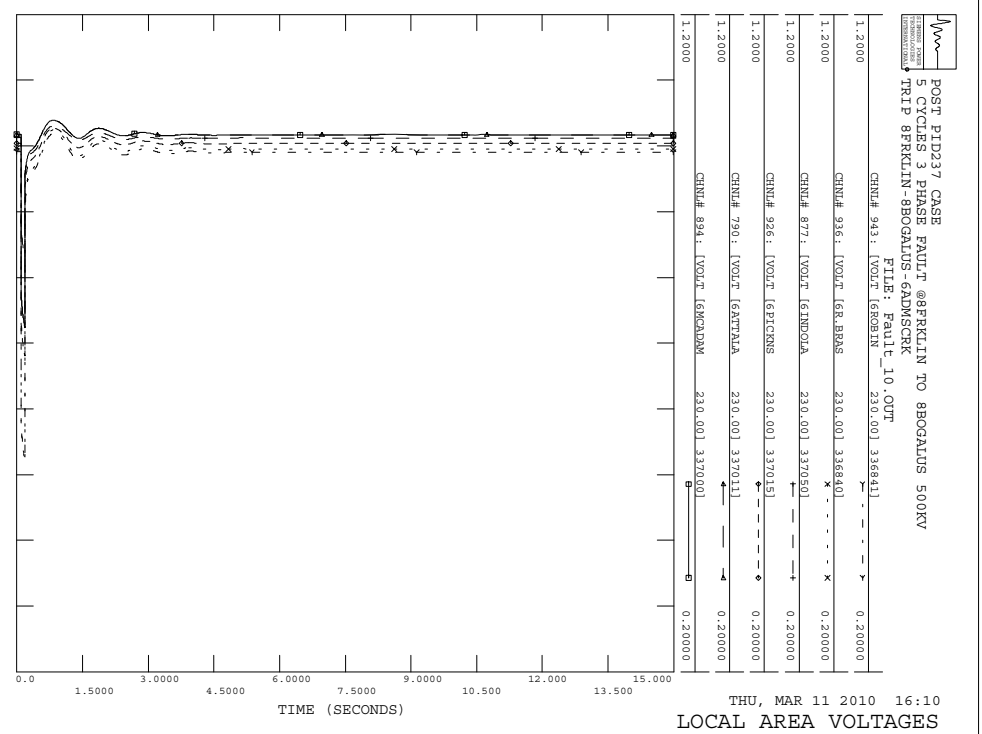
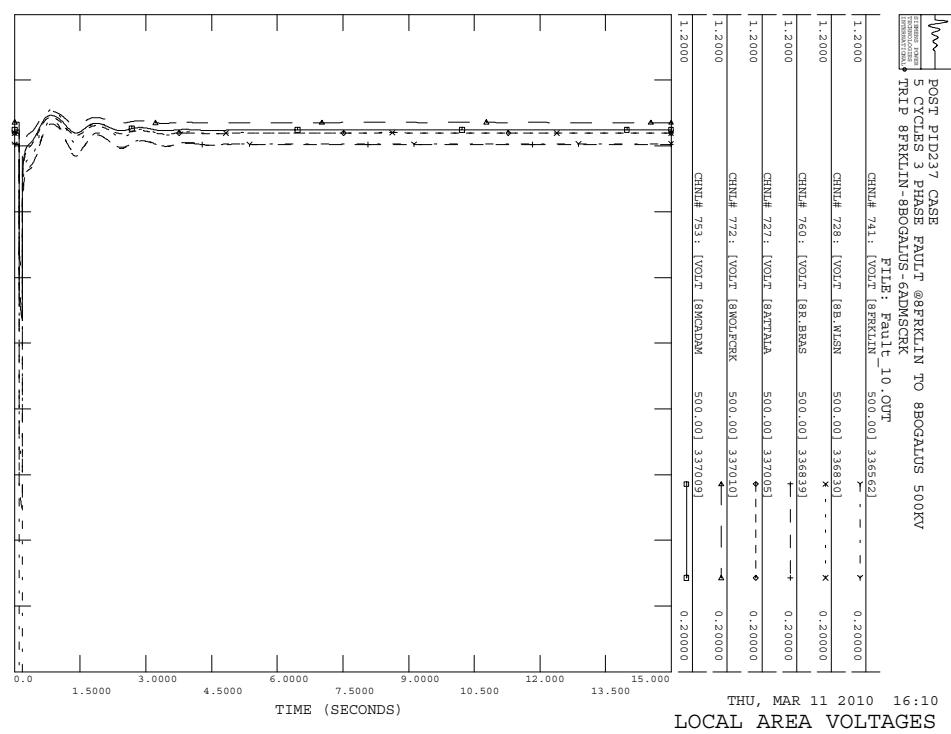




## **C.20 Fault\_10**

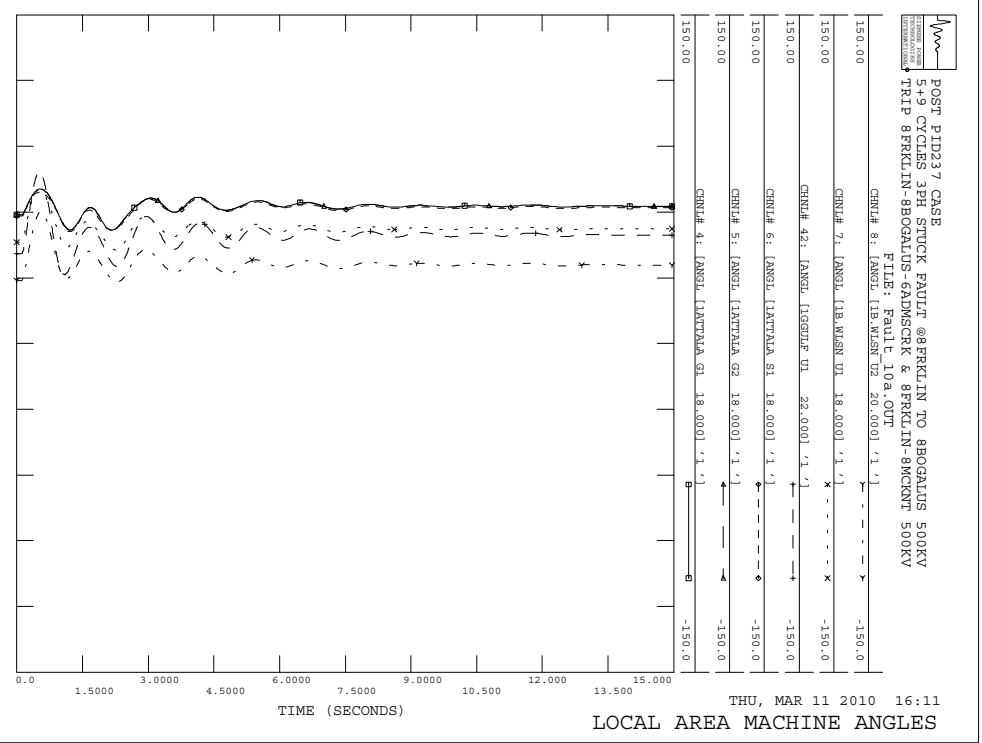
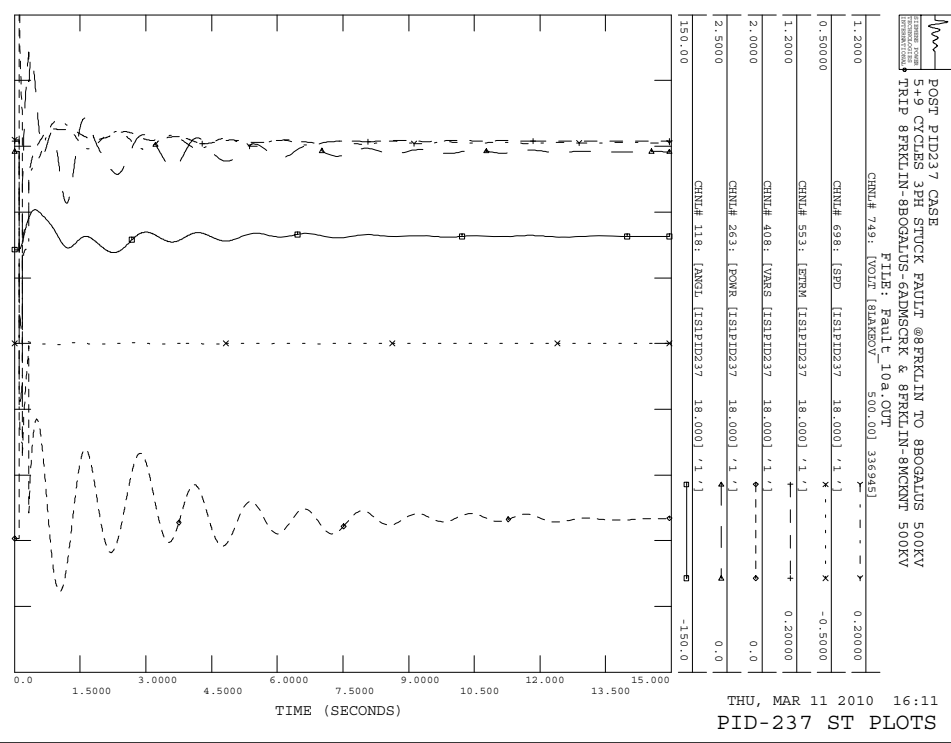
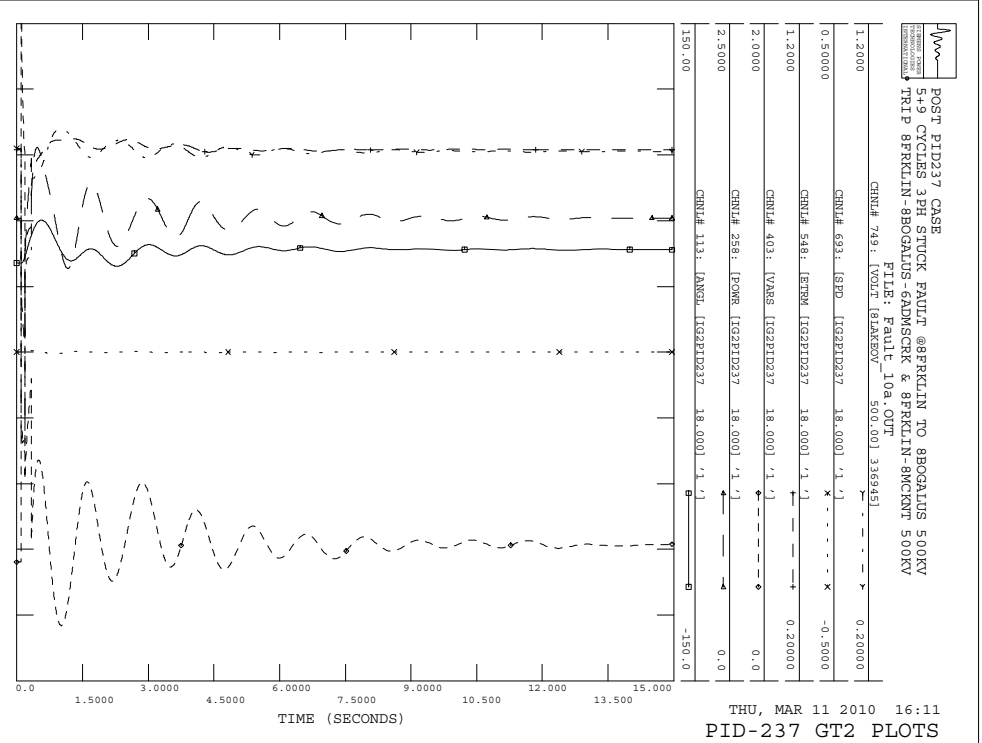
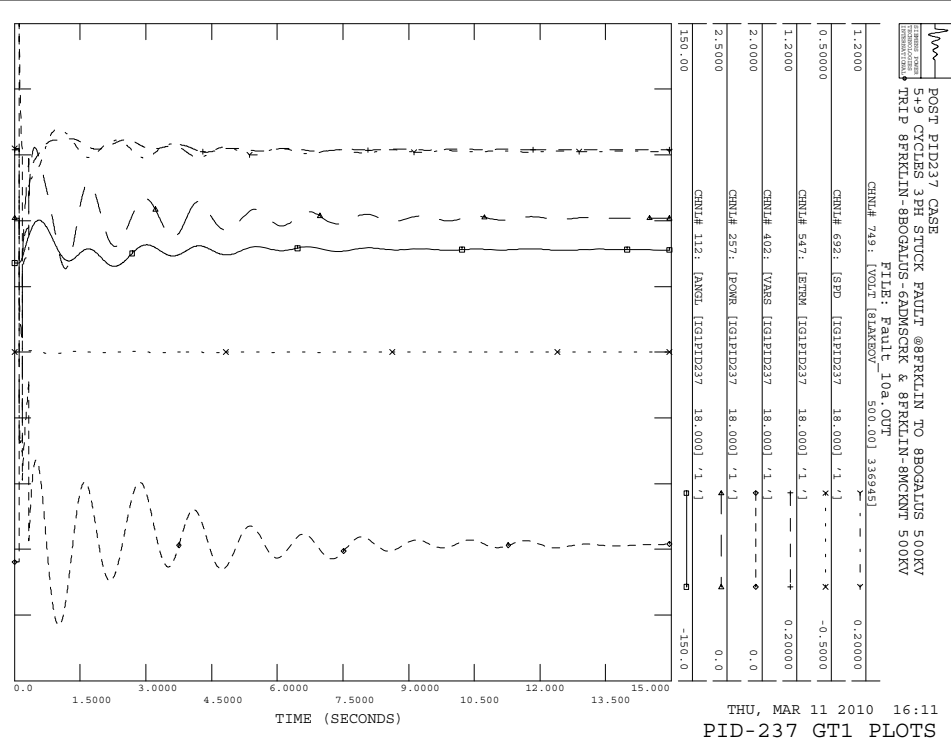
5 cycles 3 Phase Fault @8FRKLIN to 8BOGALUS 500kV  
Trip 8FRKLIN-8BOGALUS-6ADMSCRK

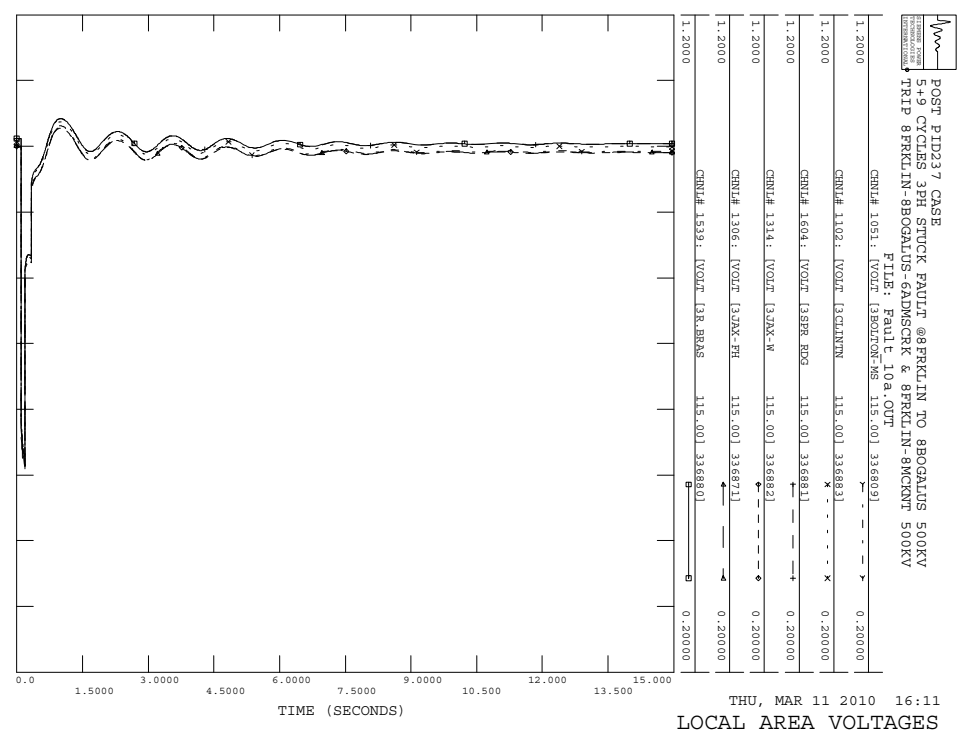
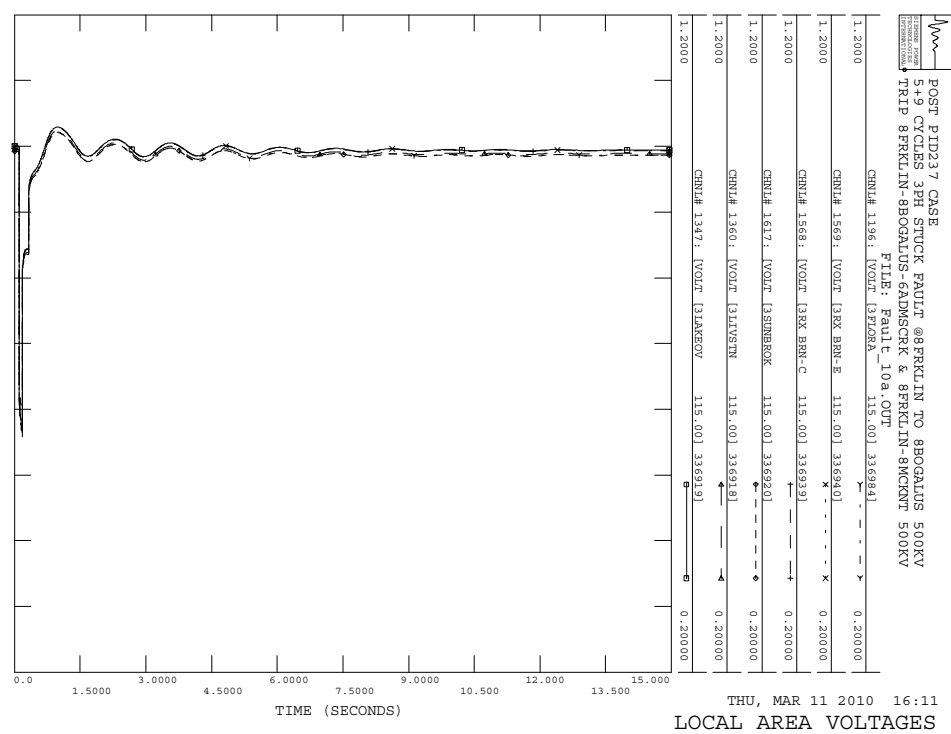
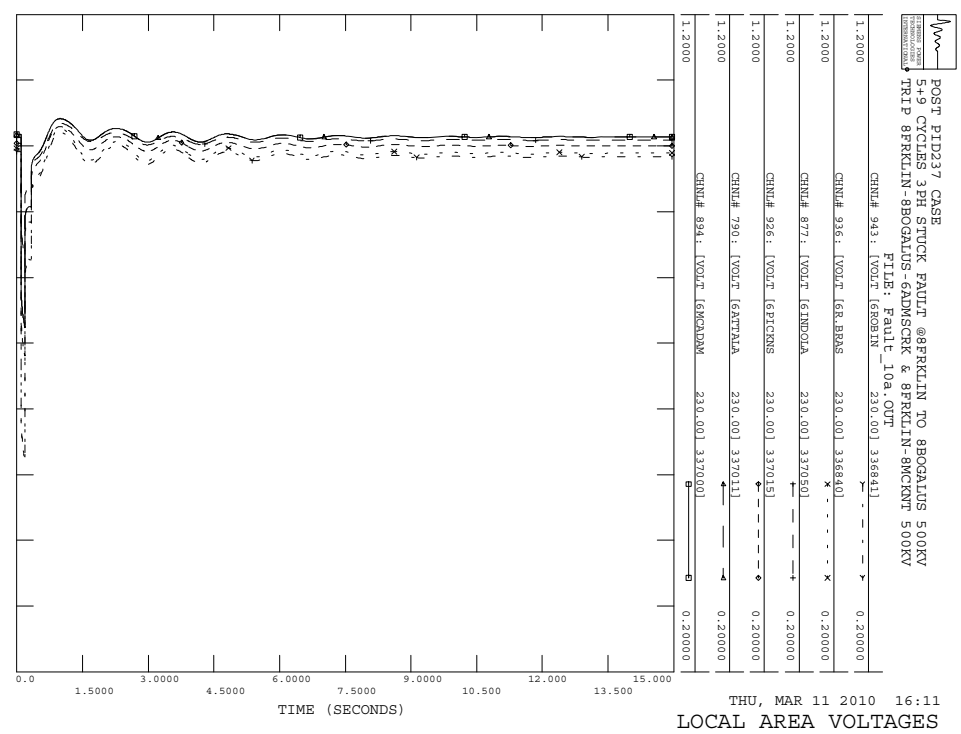
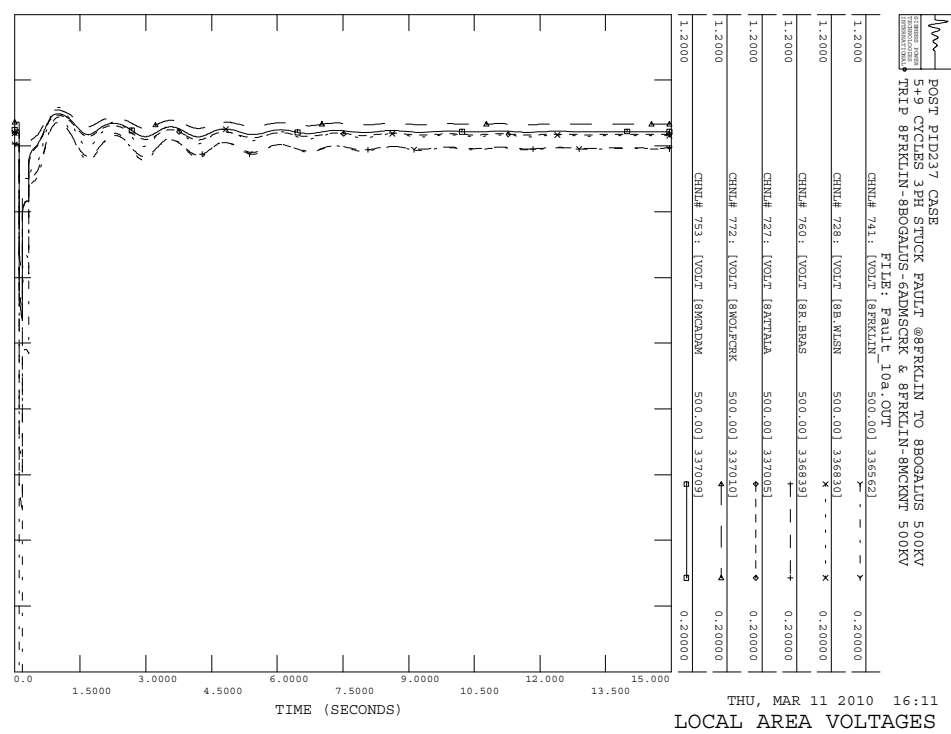




## **C.21 Fault\_10a**

5+9 cycles 3Ph Stuck Fault @8FRKLIN to 8BOGALUS 500kV  
Trip 8FRKLIN-8BOGALUS-6ADMSCRK & 8FRKLIN-8MCKNT 500kV

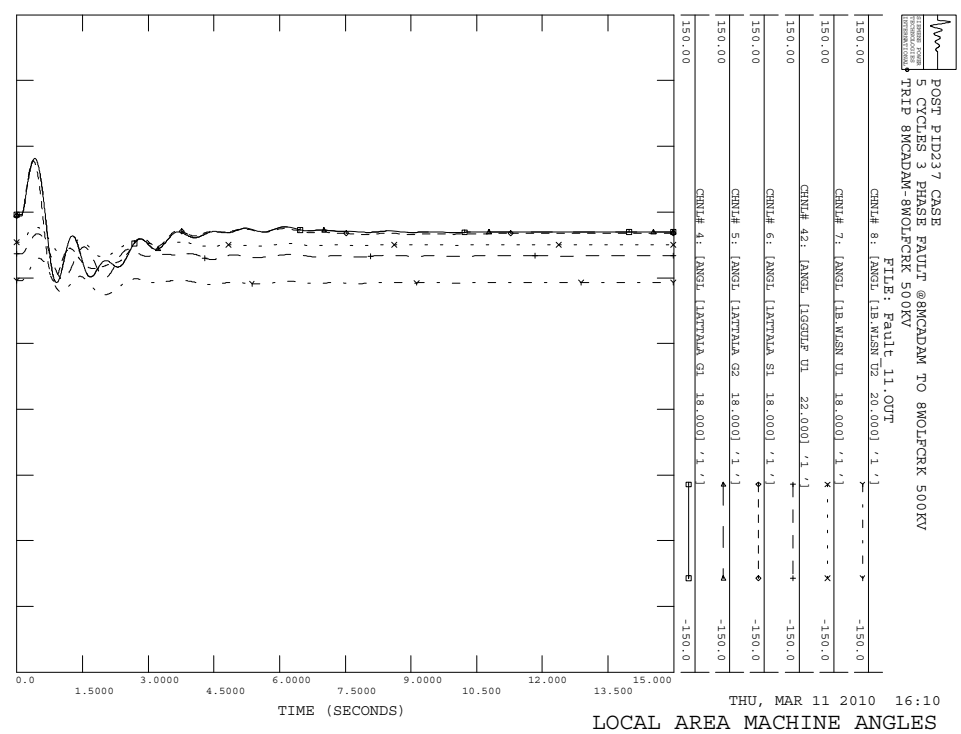
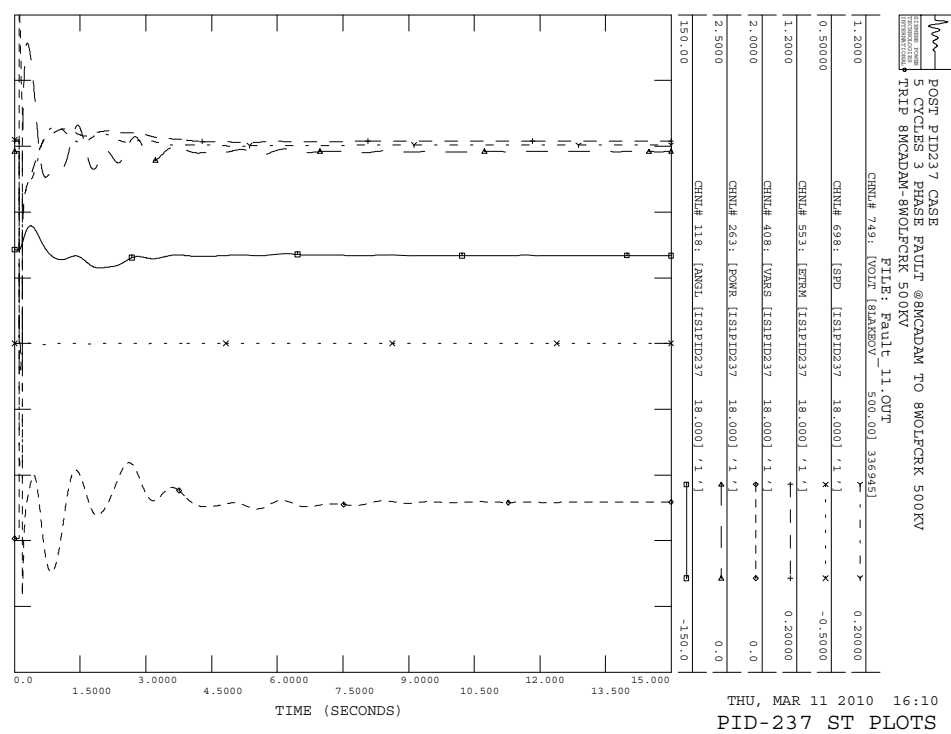
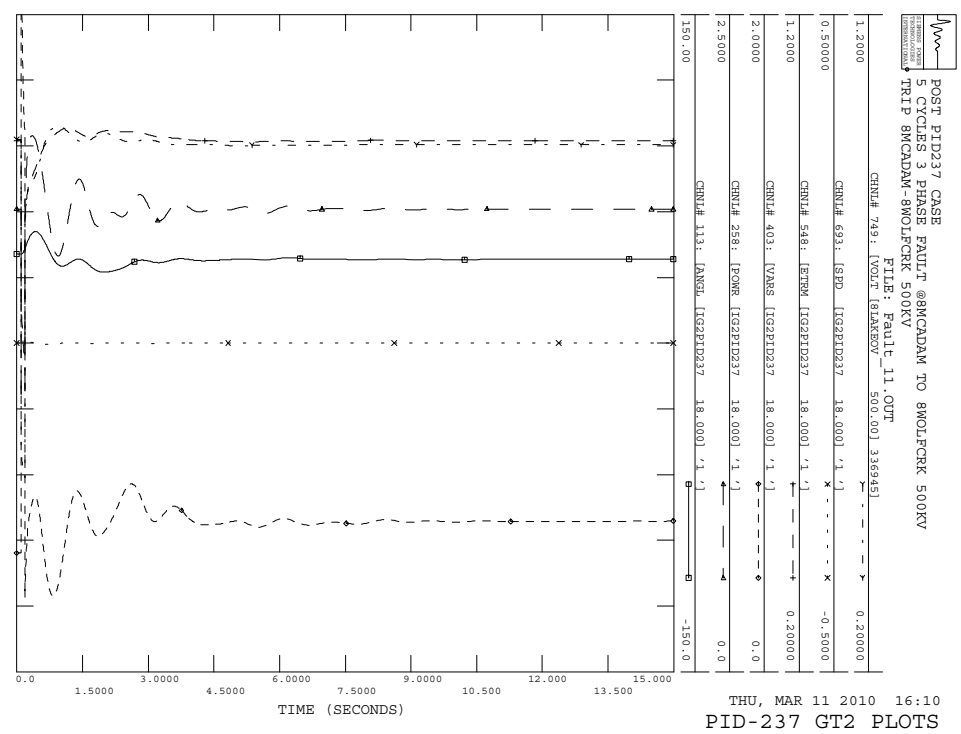
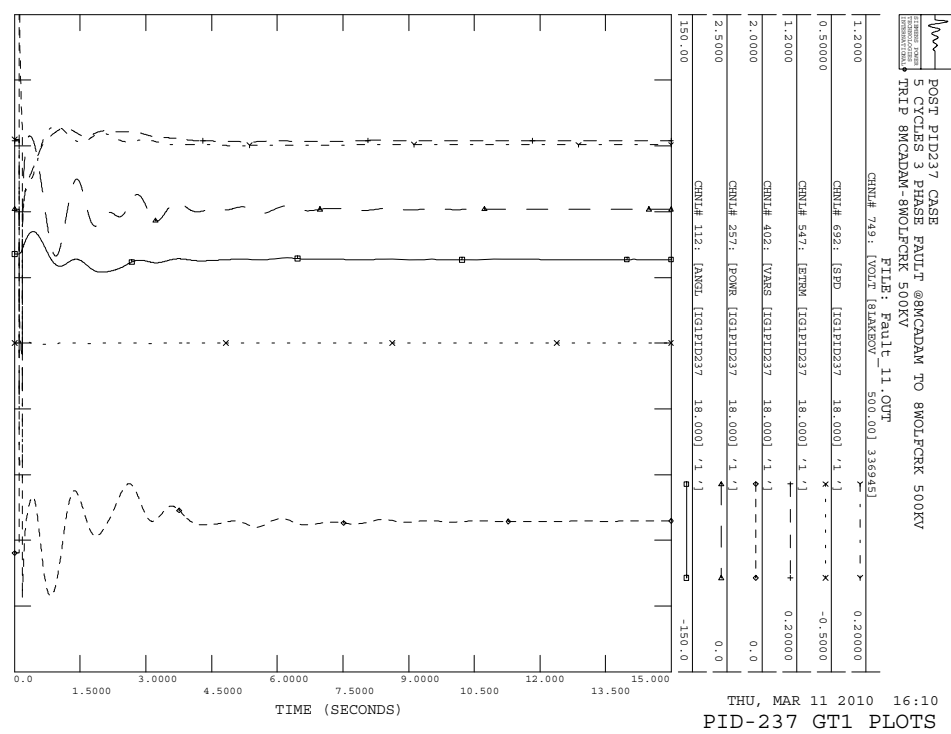


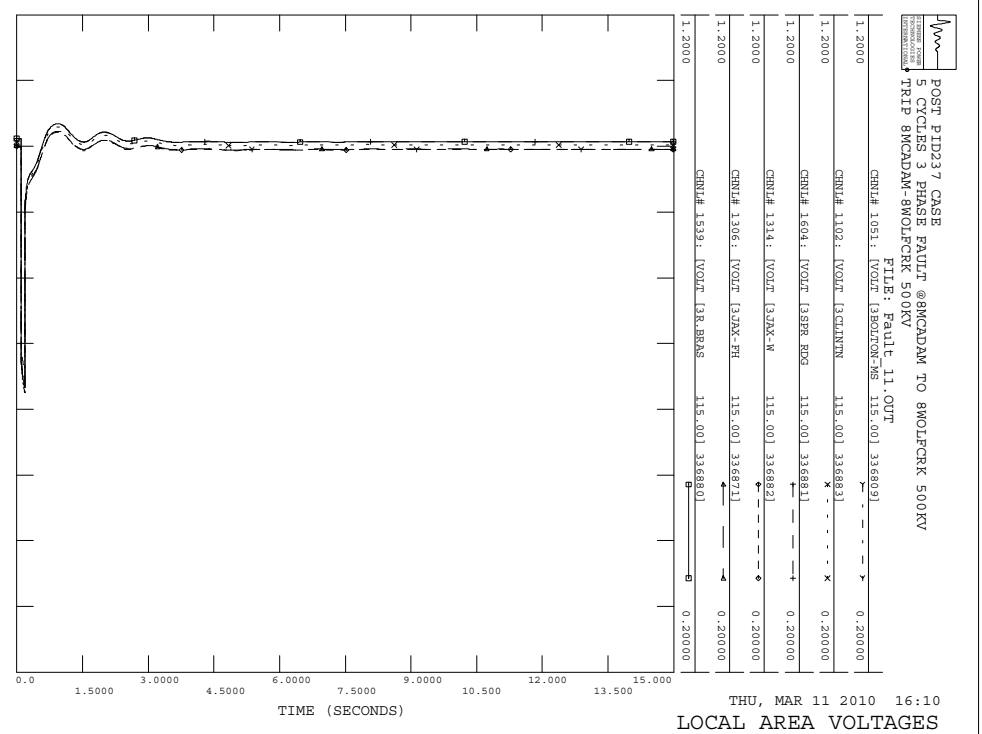
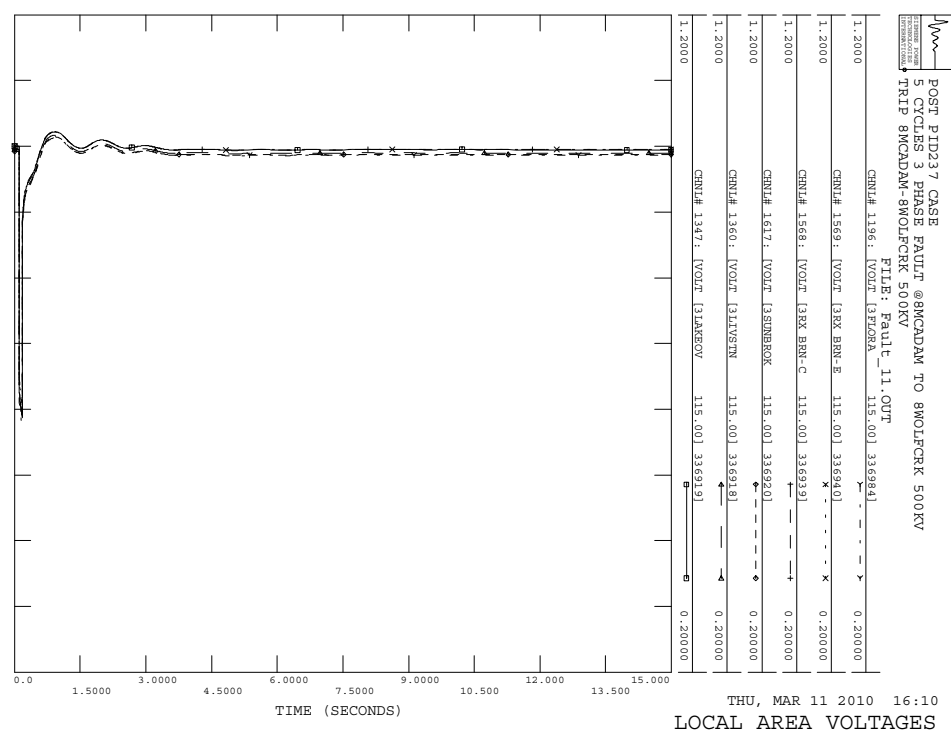
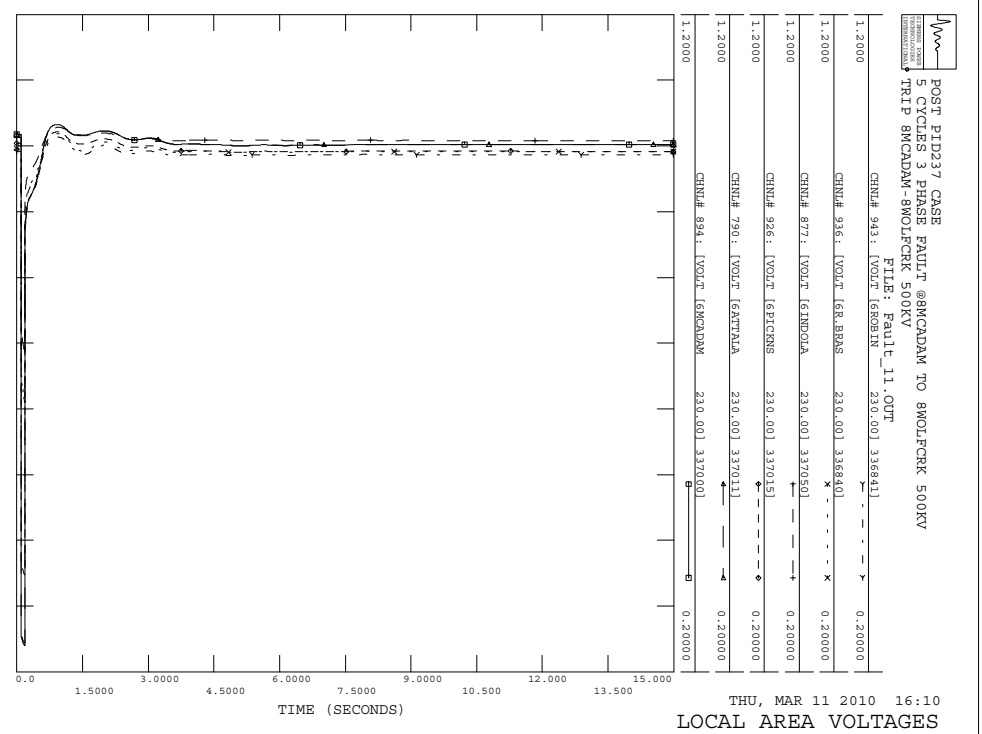
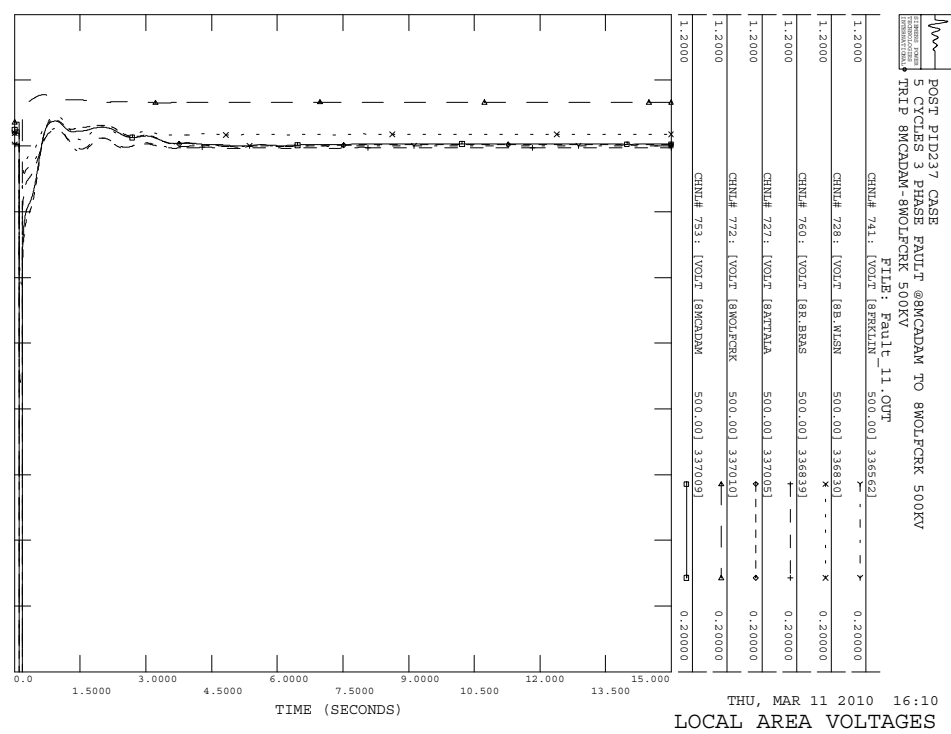




## **C.22 Fault\_11**

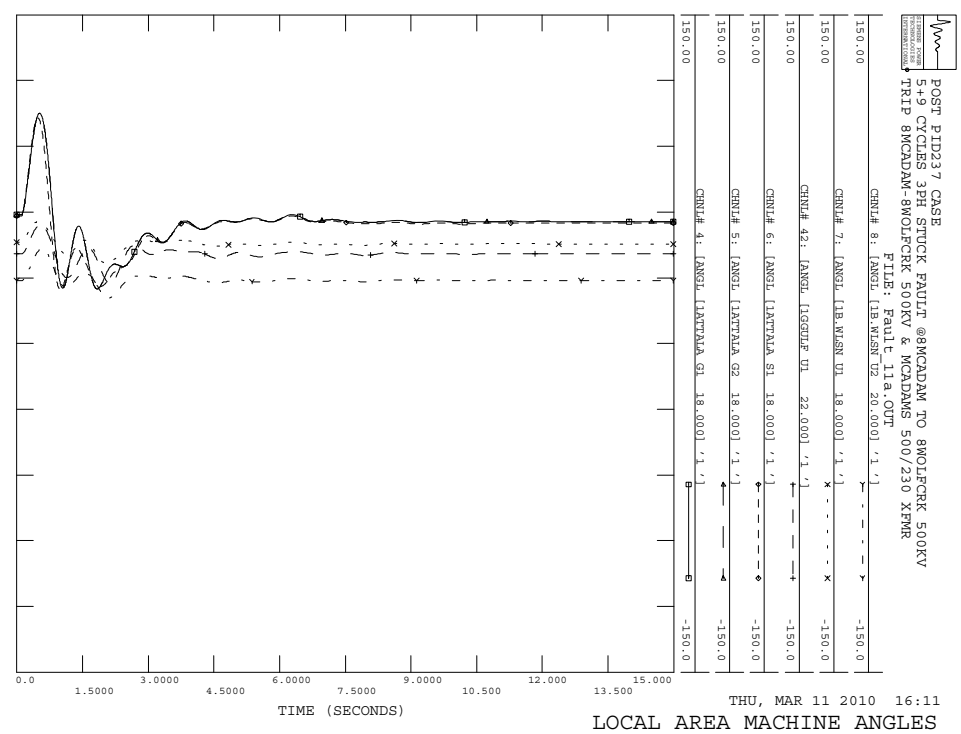
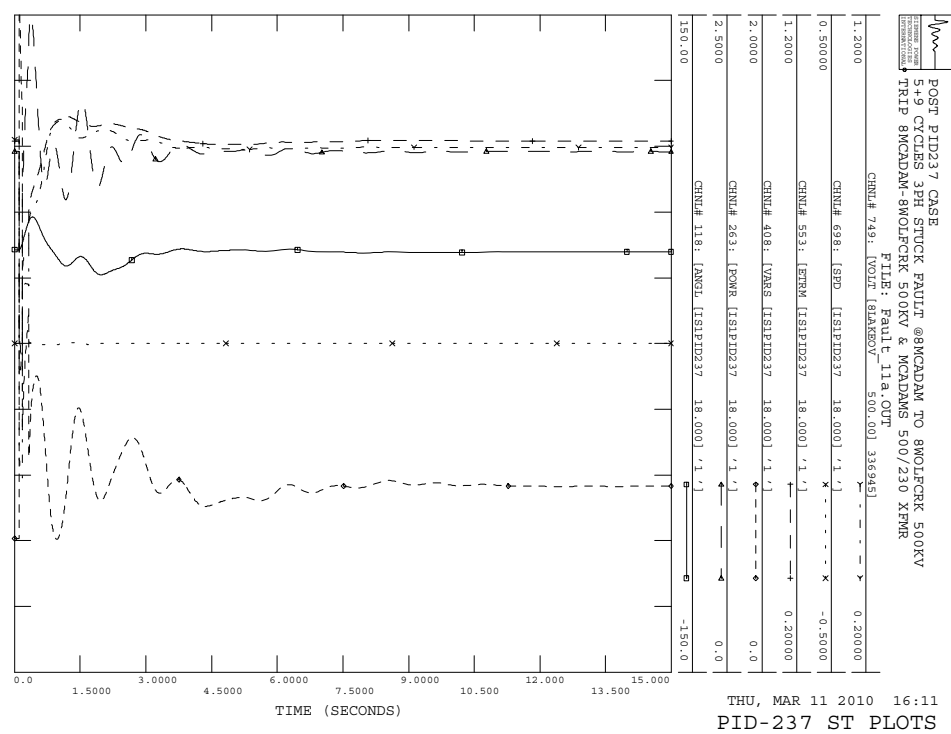
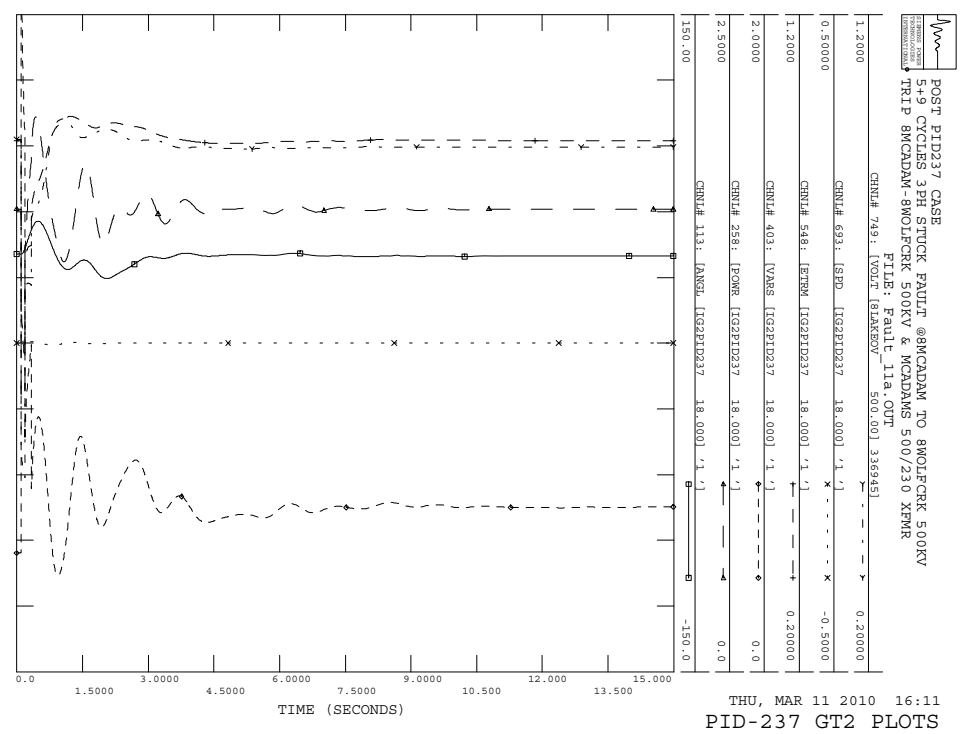
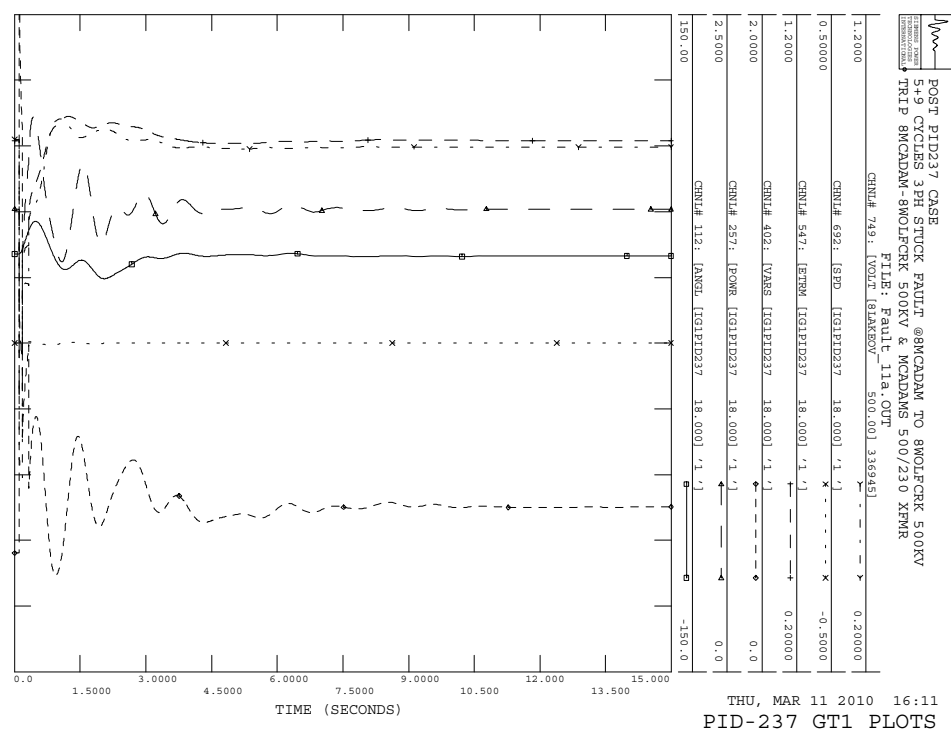
5 cycles 3 Phase Fault @8MCADAM to 8WOLFCRK 500kV  
Trip 8MCADAM-8WOLFCRK 500kV

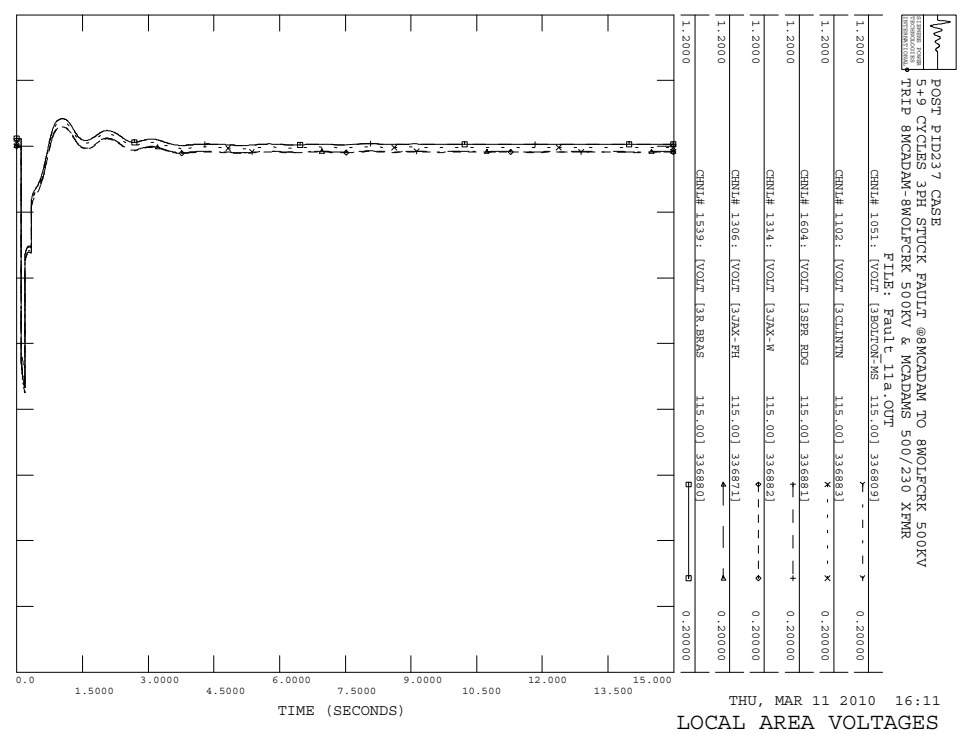
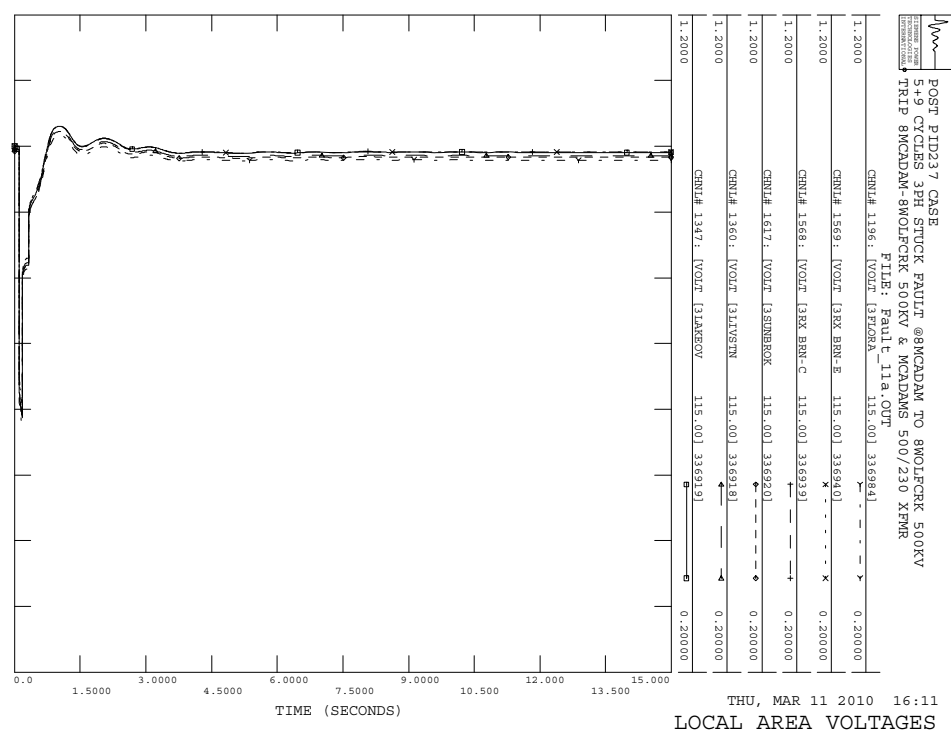
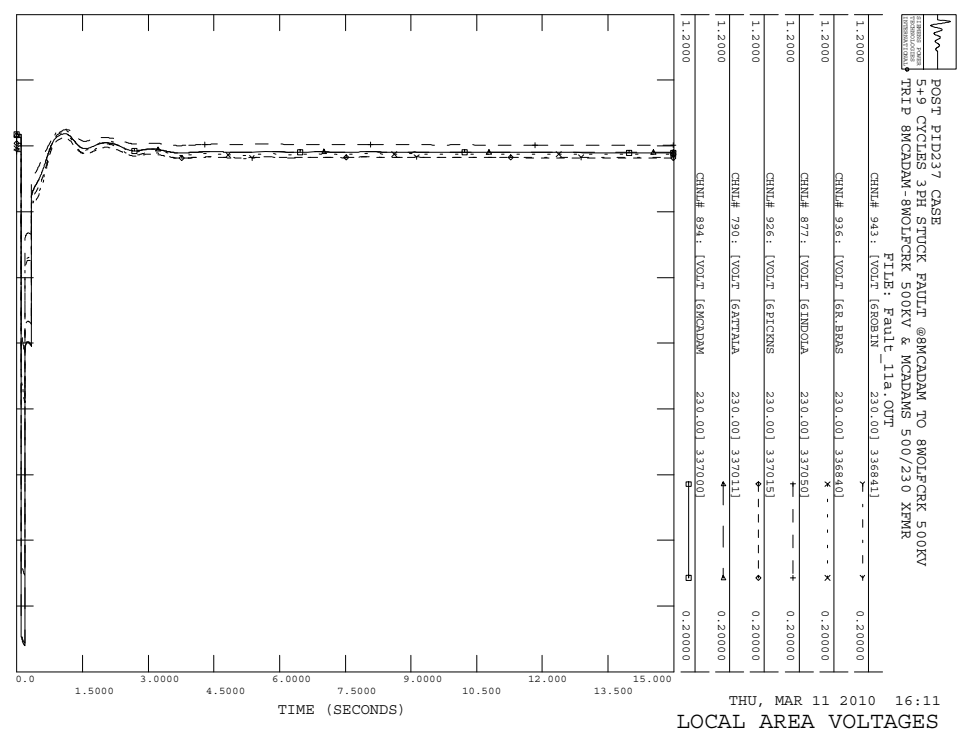
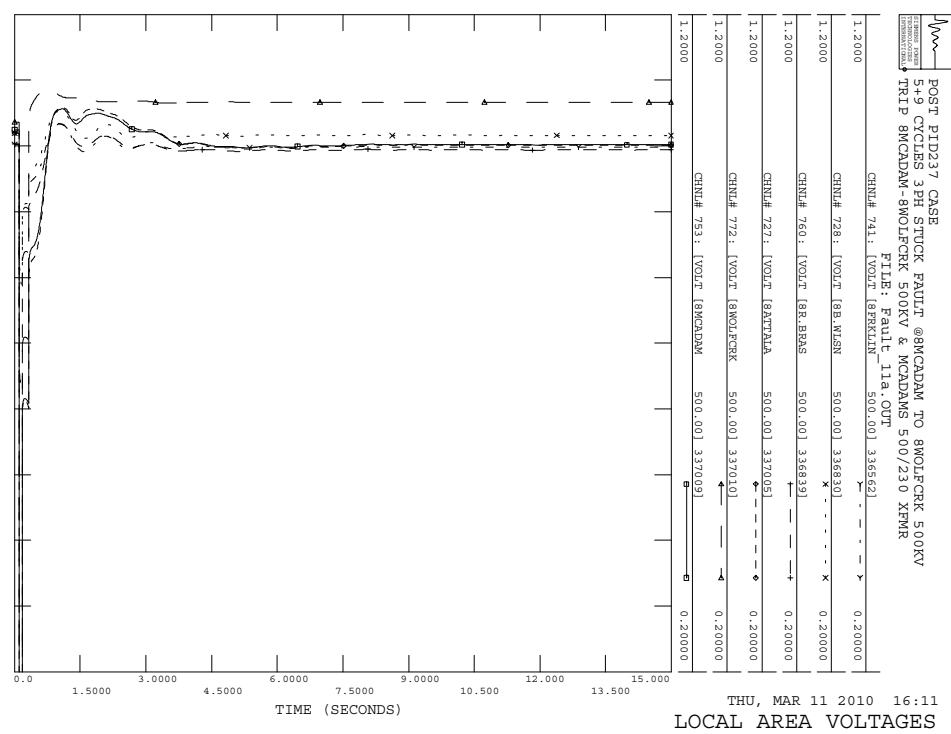




## **C.23 Fault\_11a**

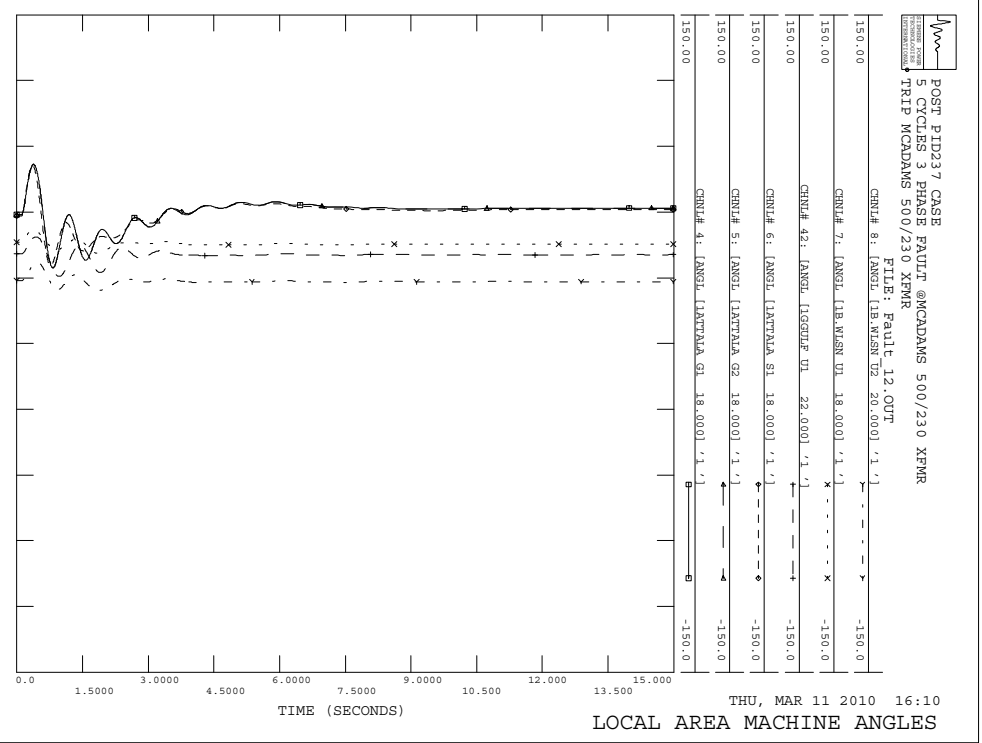
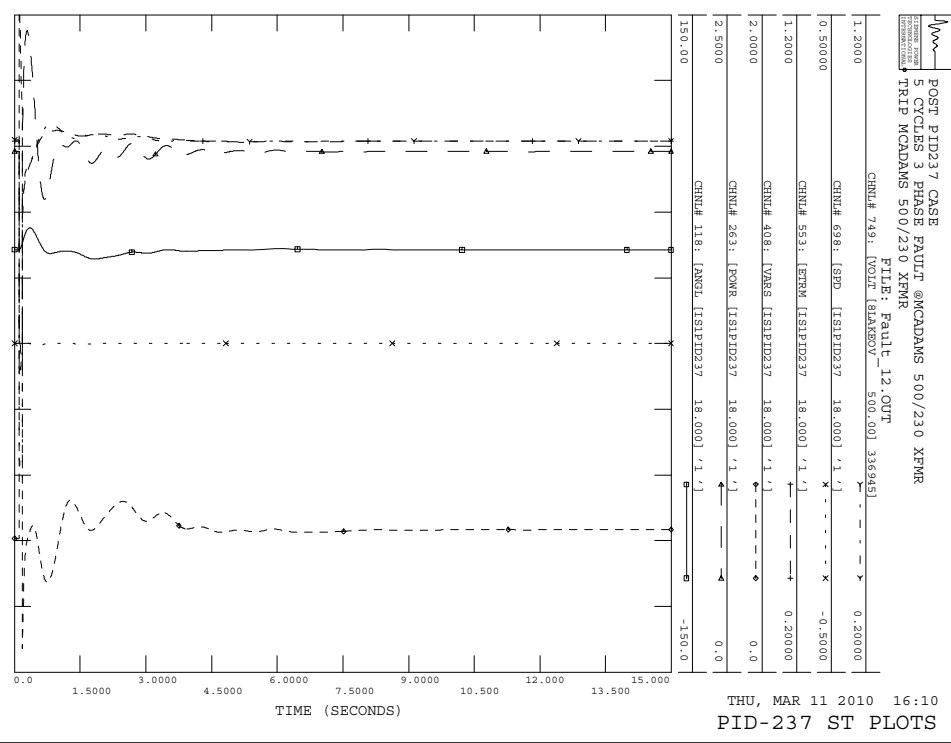
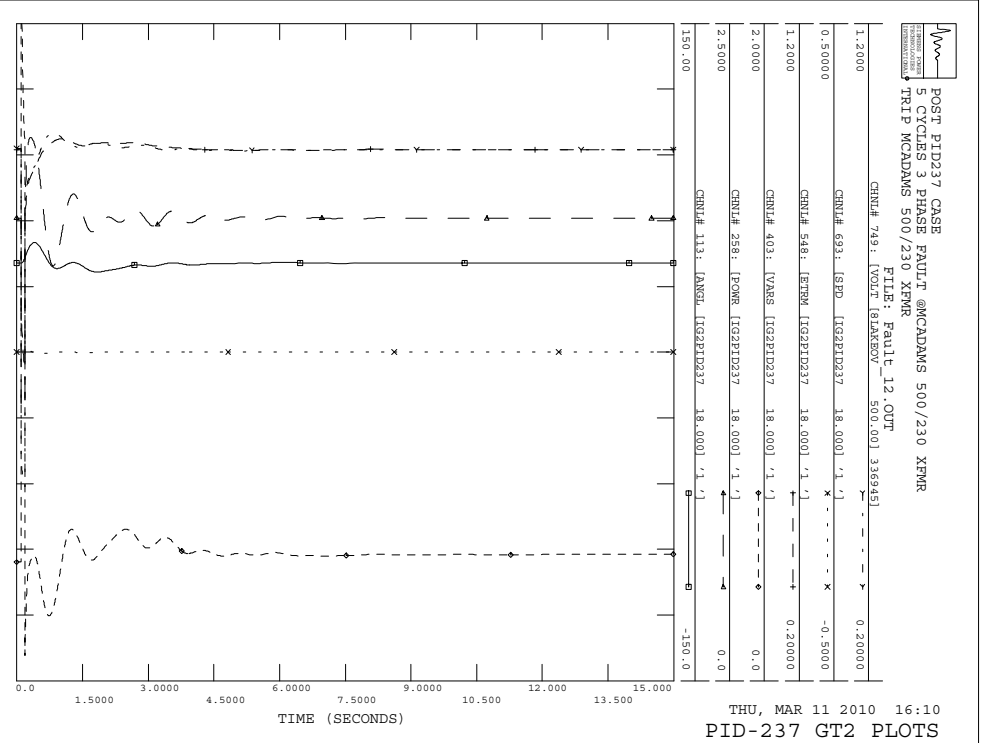
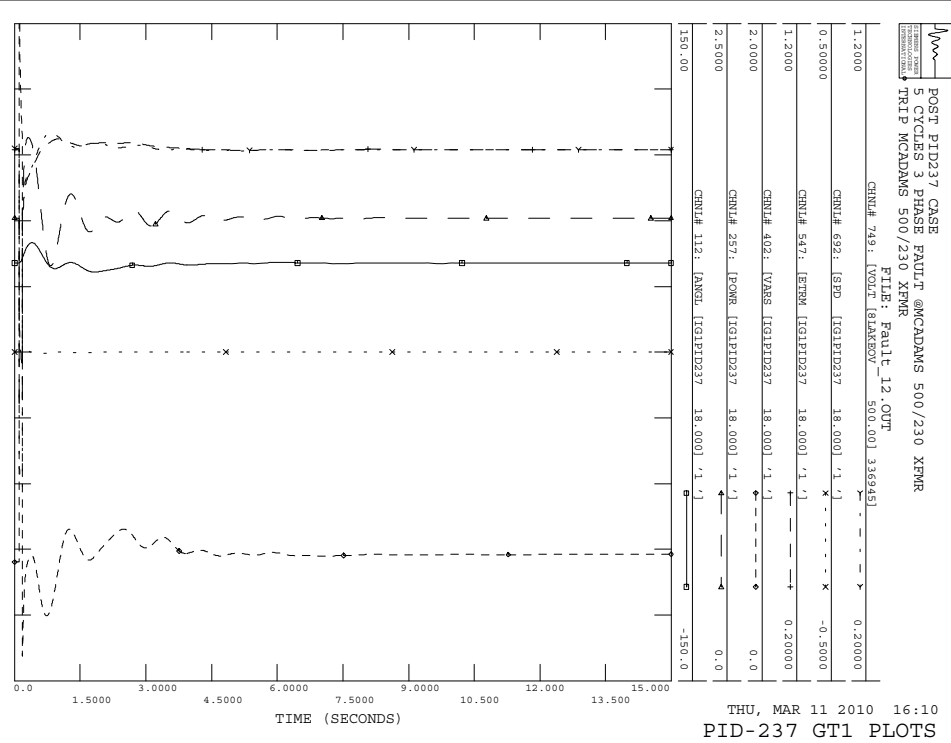
5+9 cycles 3Ph Stuck Fault @8MCADAM to 8WOLFCRK 500kV  
Trip 8MCADAM-8WOLFCRK 500kV & McAdams 500/230 Xfmr



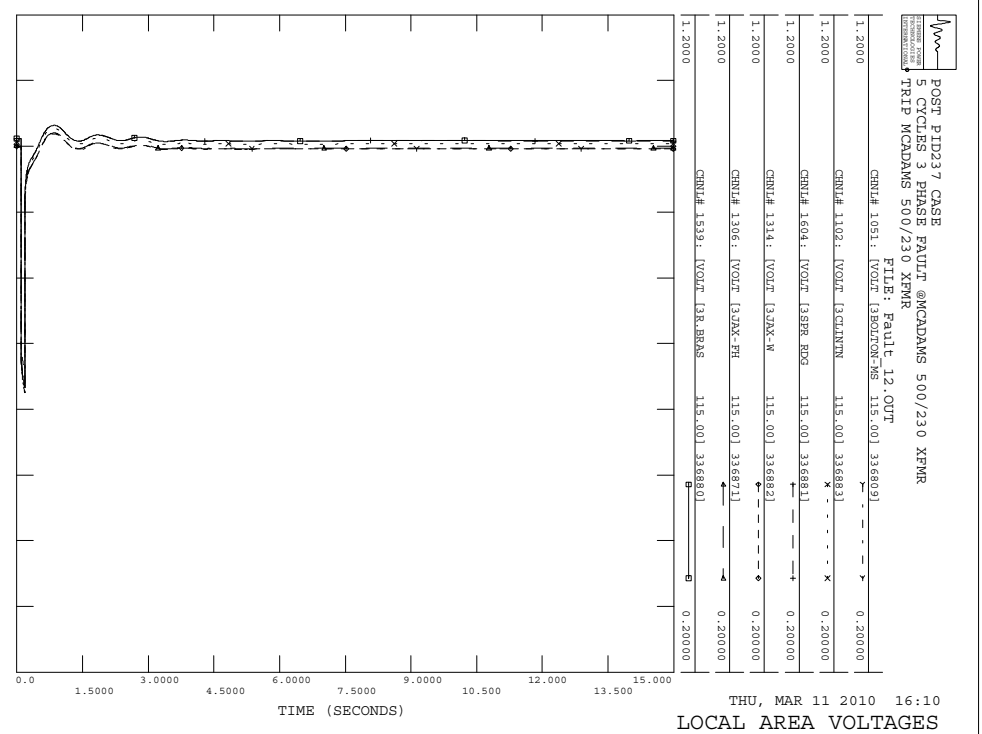
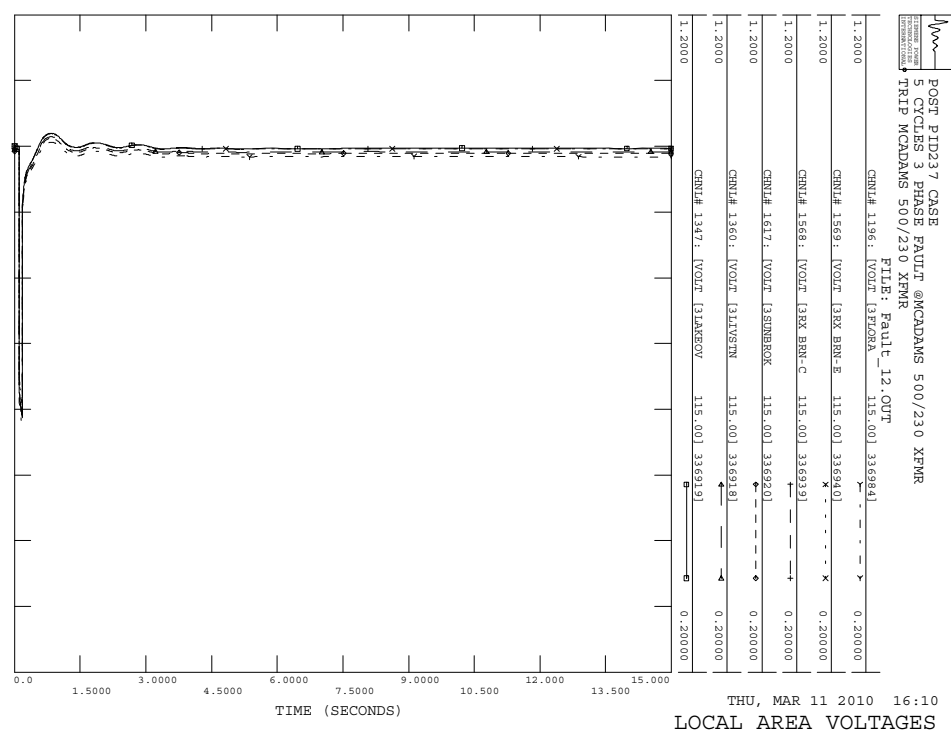
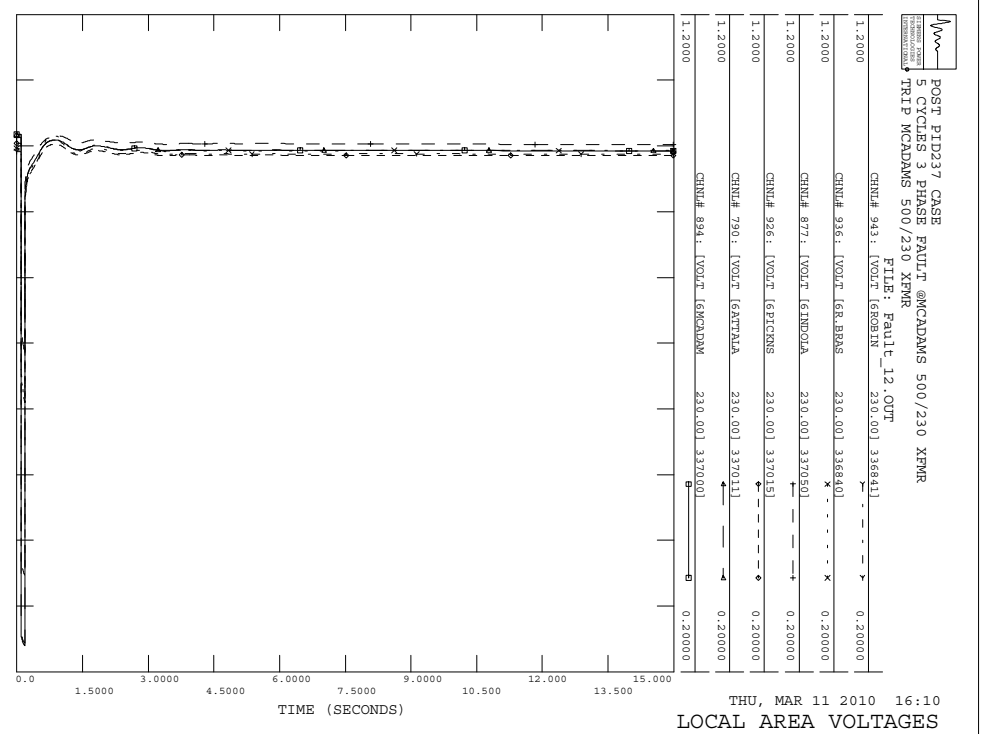
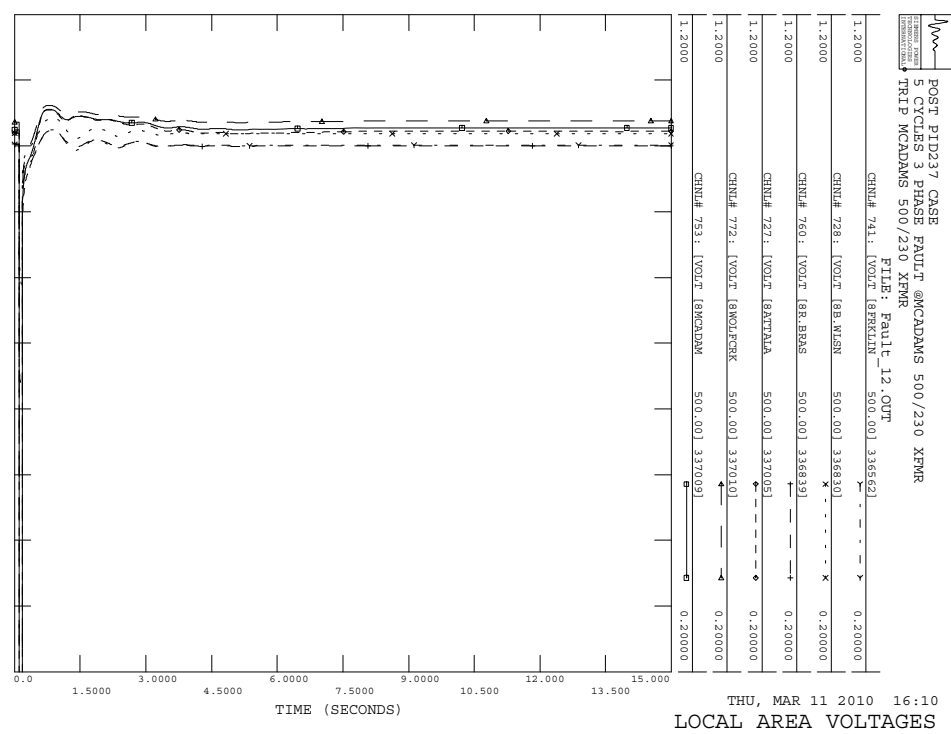


## **C.24 Fault\_12**

5 cycles 3 Phase Fault @McAdams 500/230 Xfmr  
Trip McAdams 500/230 Xfmr



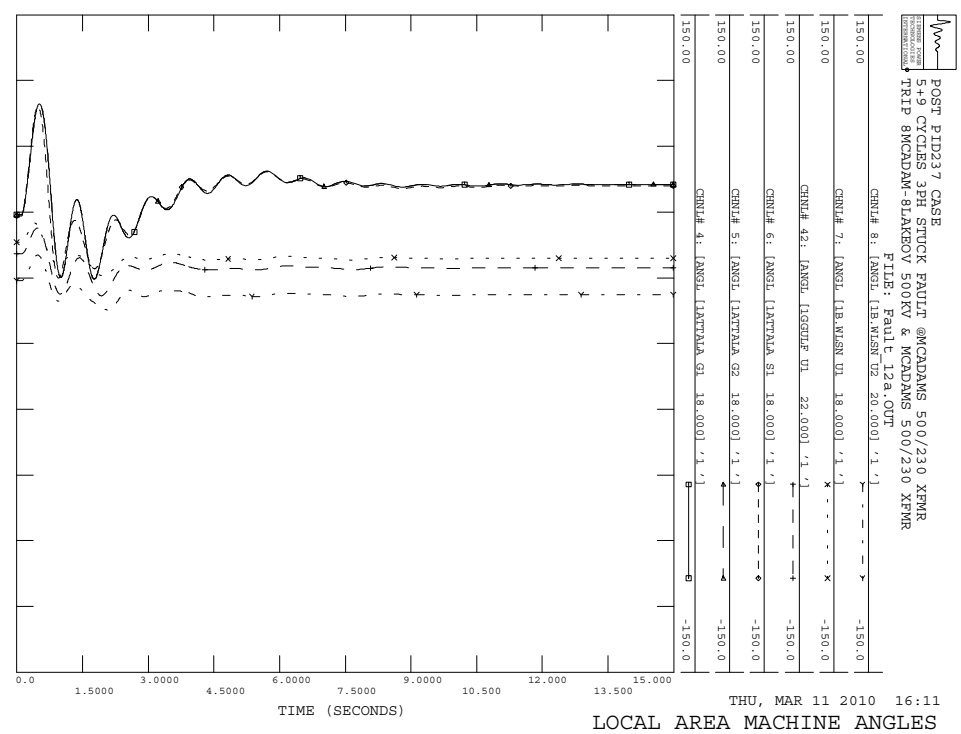
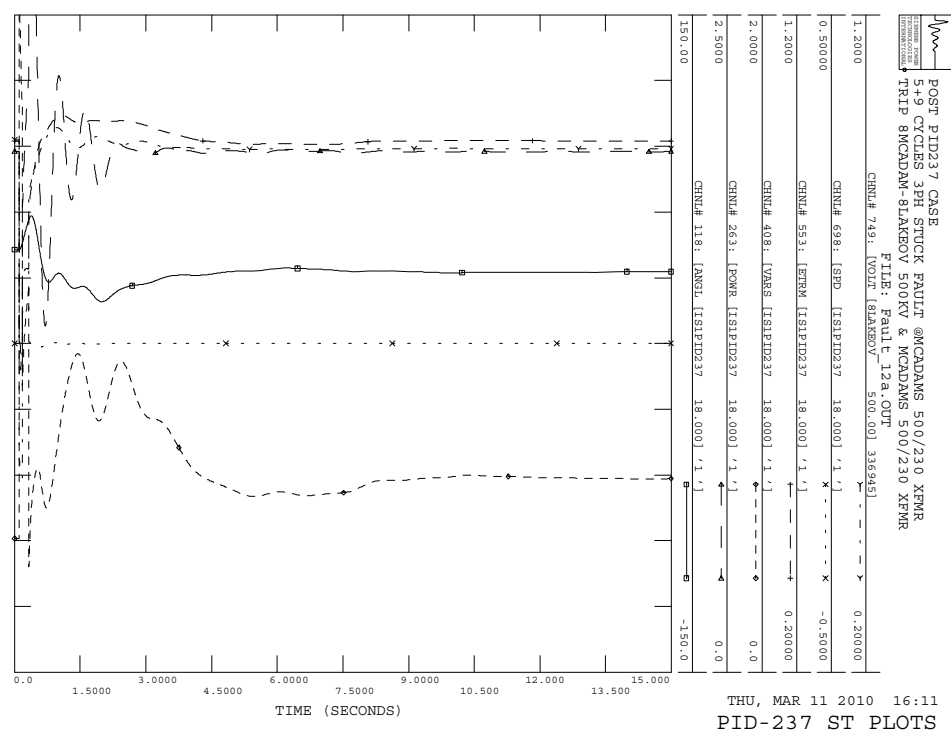
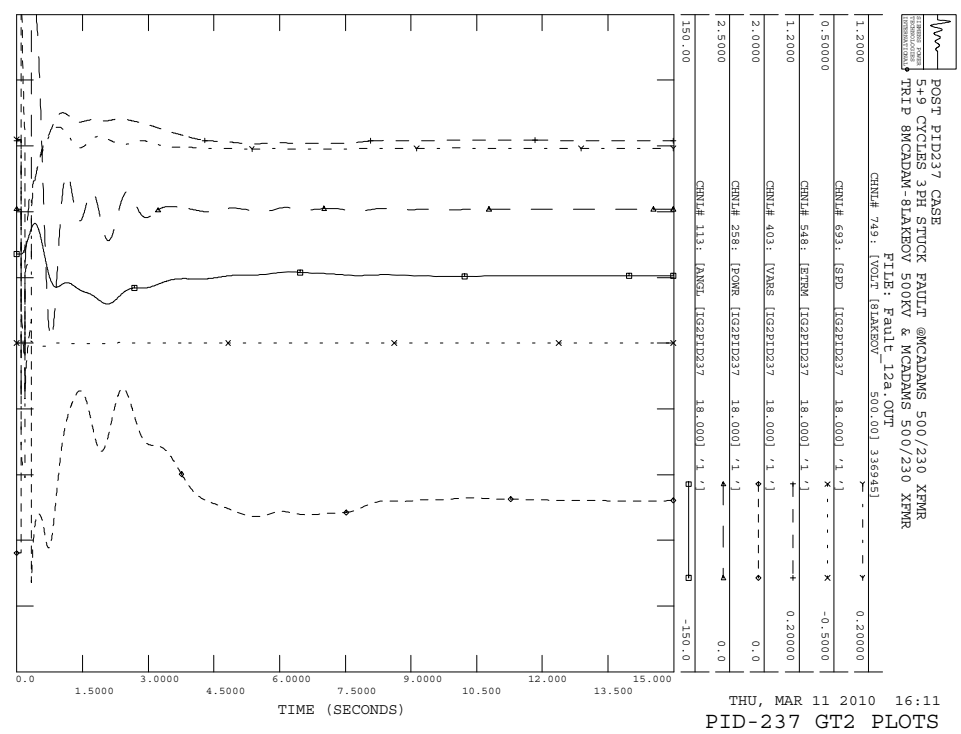
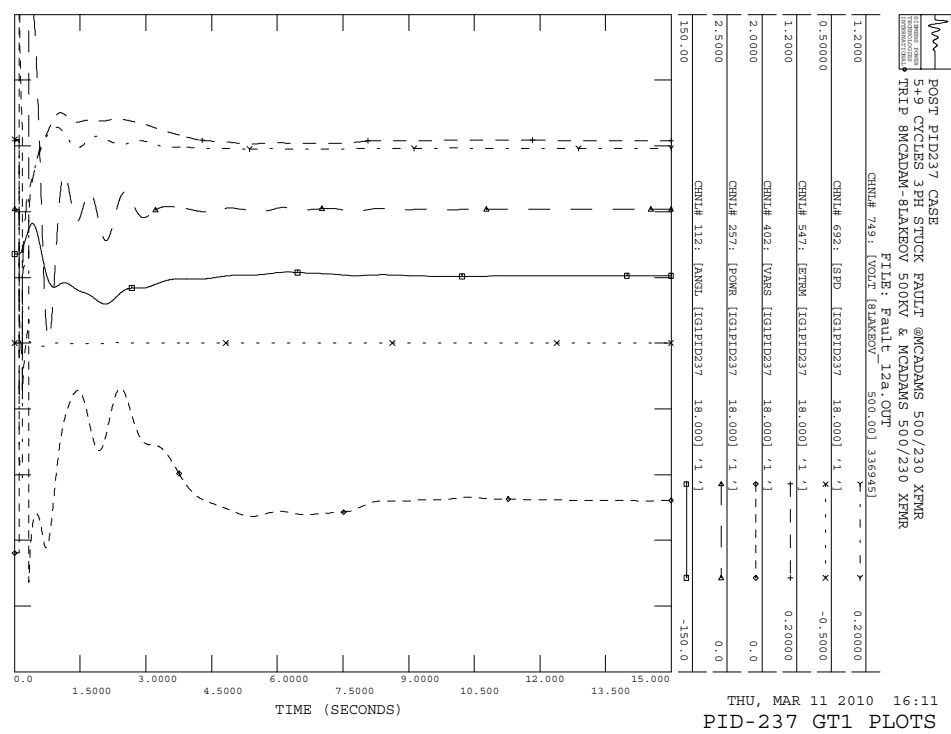


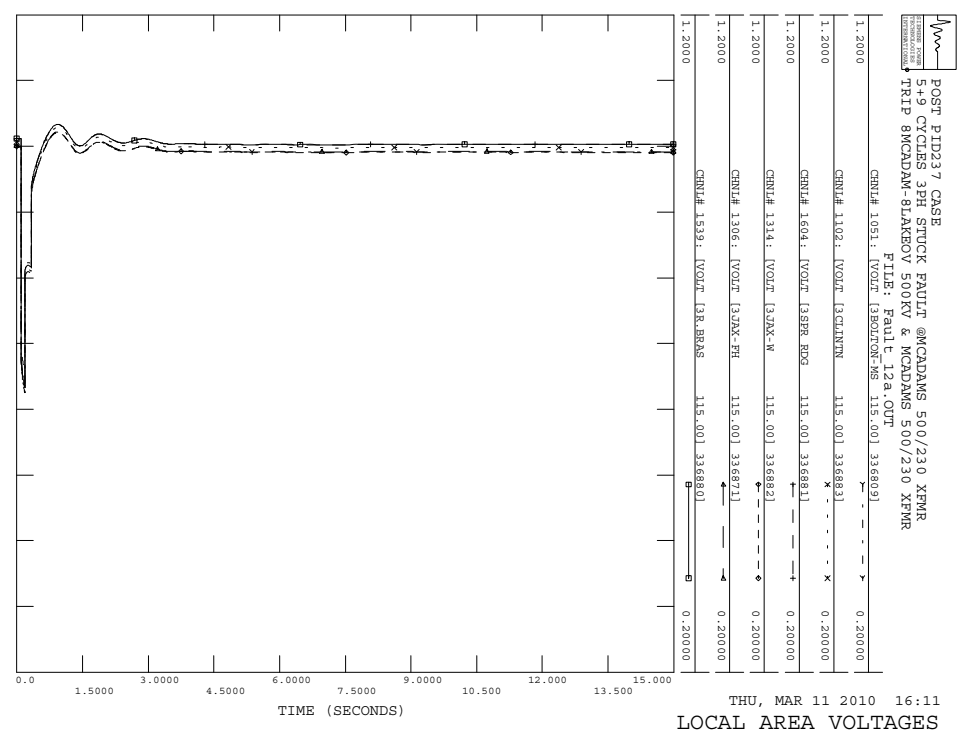
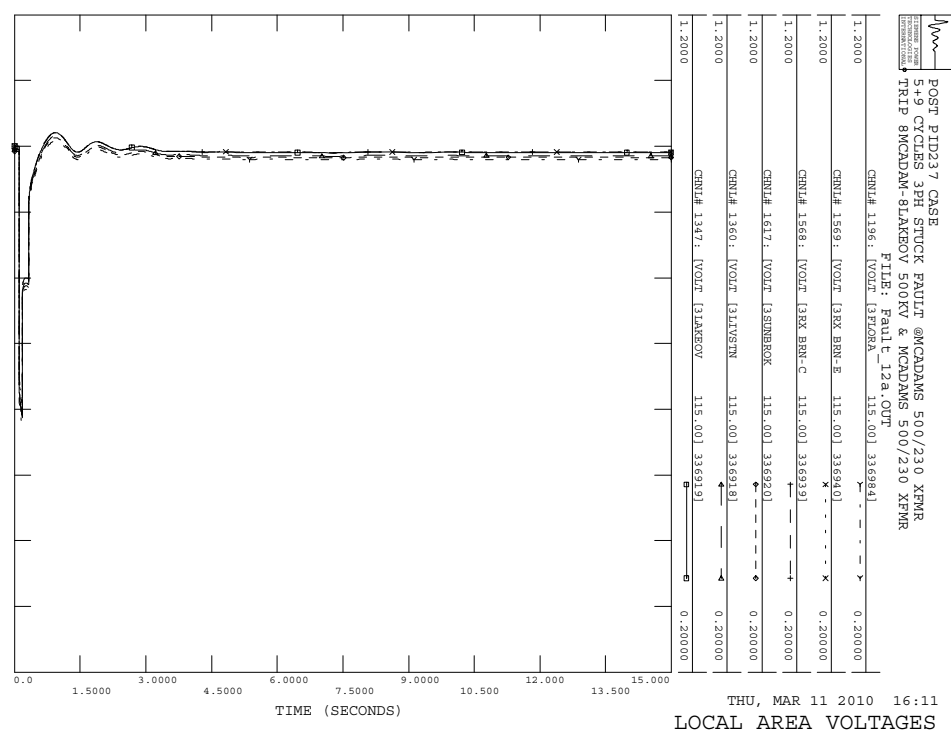
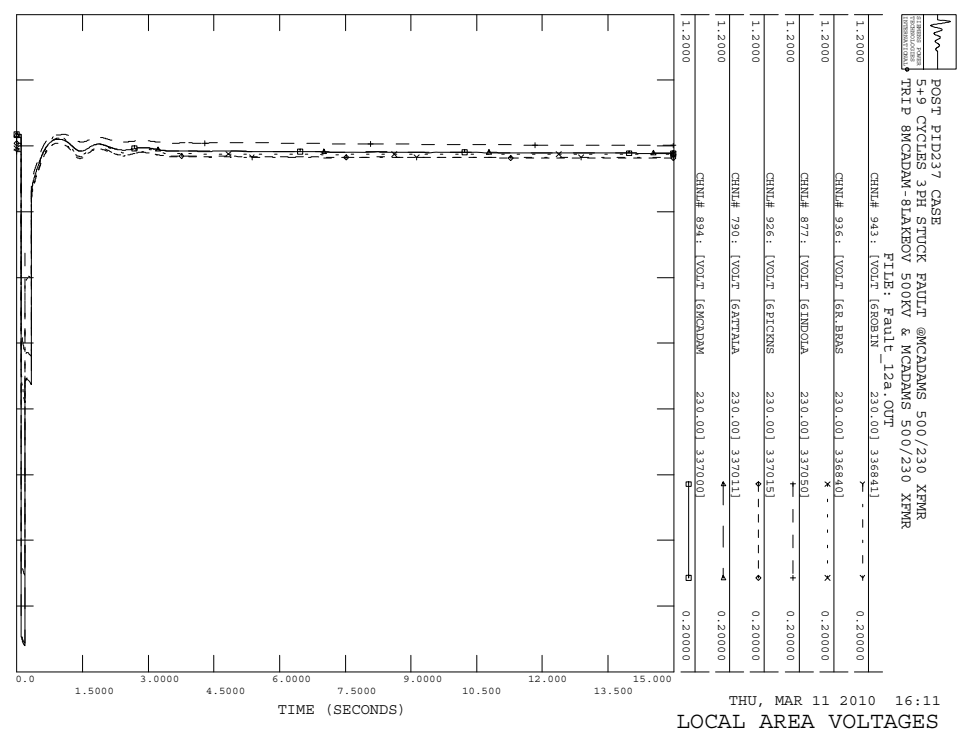
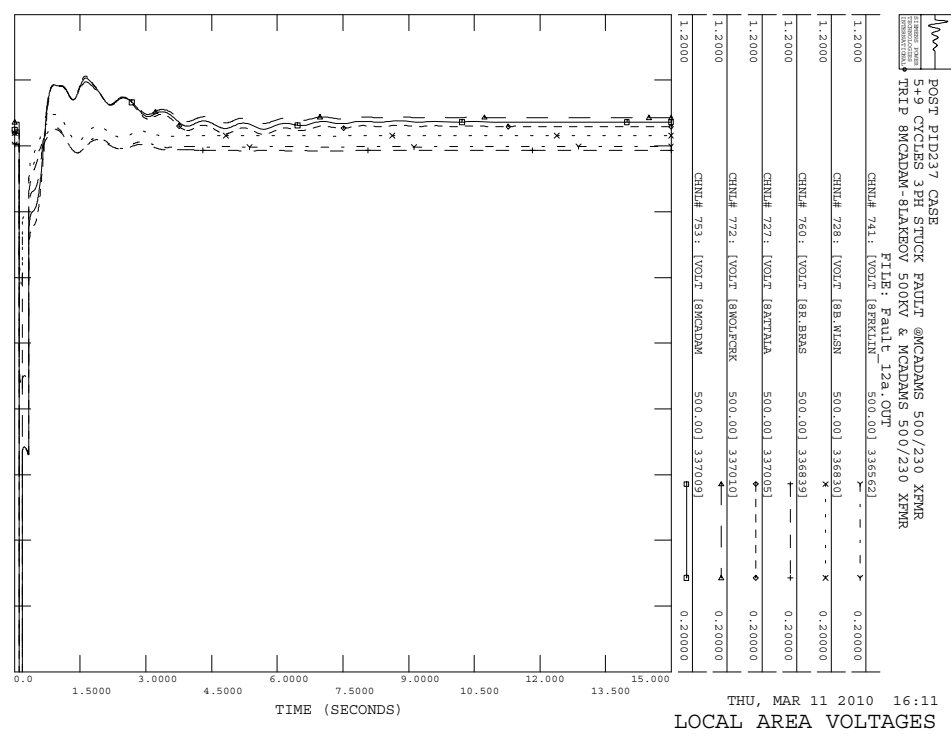


## **C.25 Fault\_12a**

5+9 cycles 3Ph Stuck Fault @McAdams 500/230 Xfmr

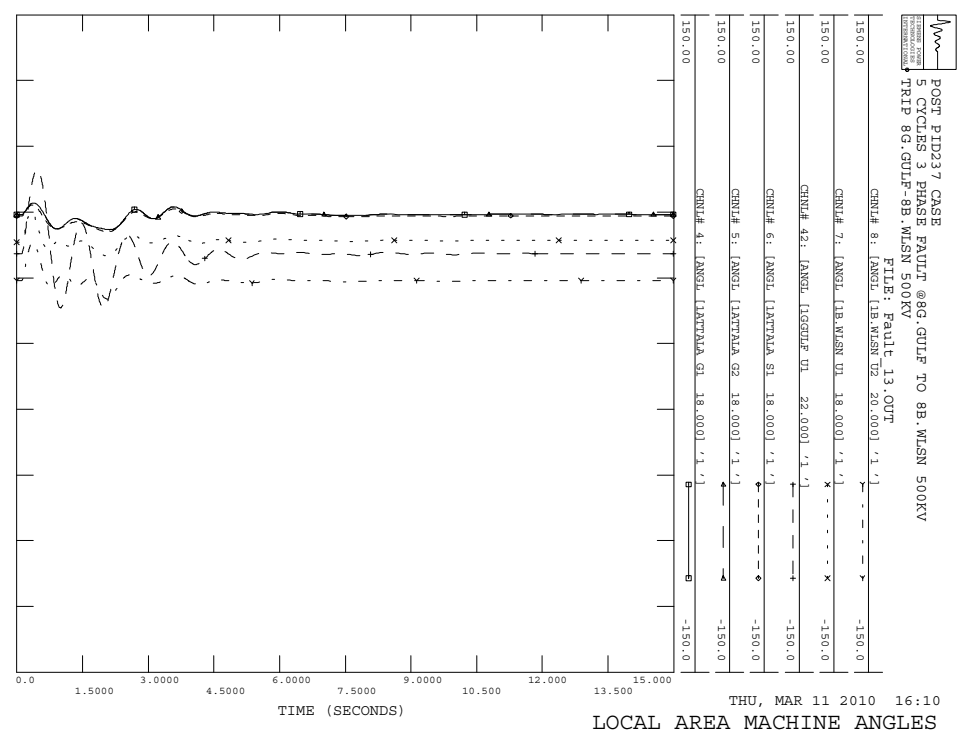
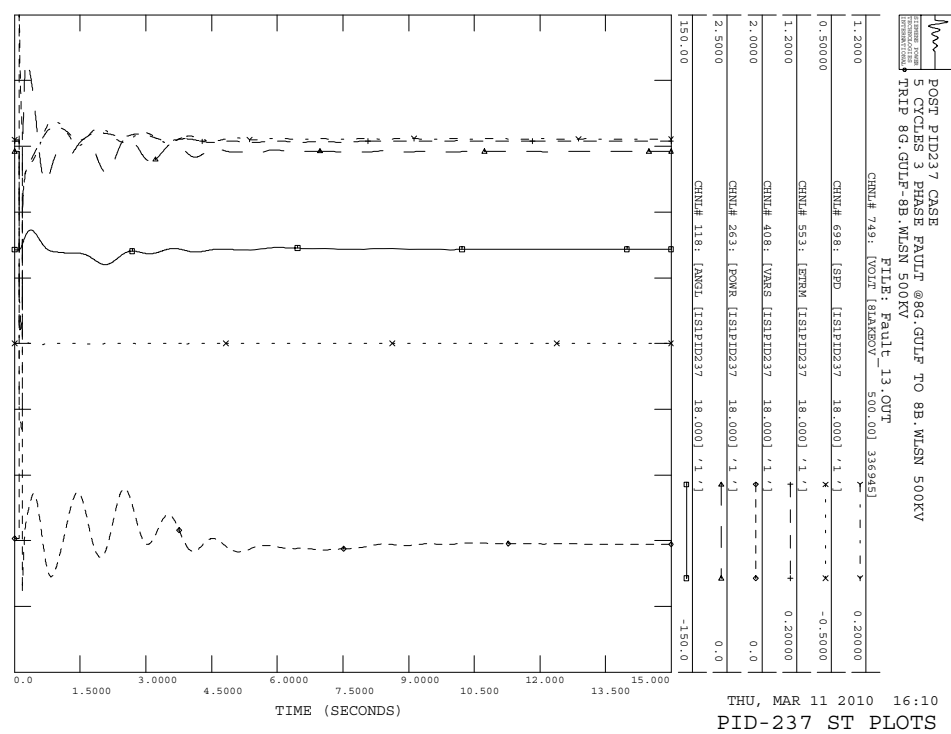
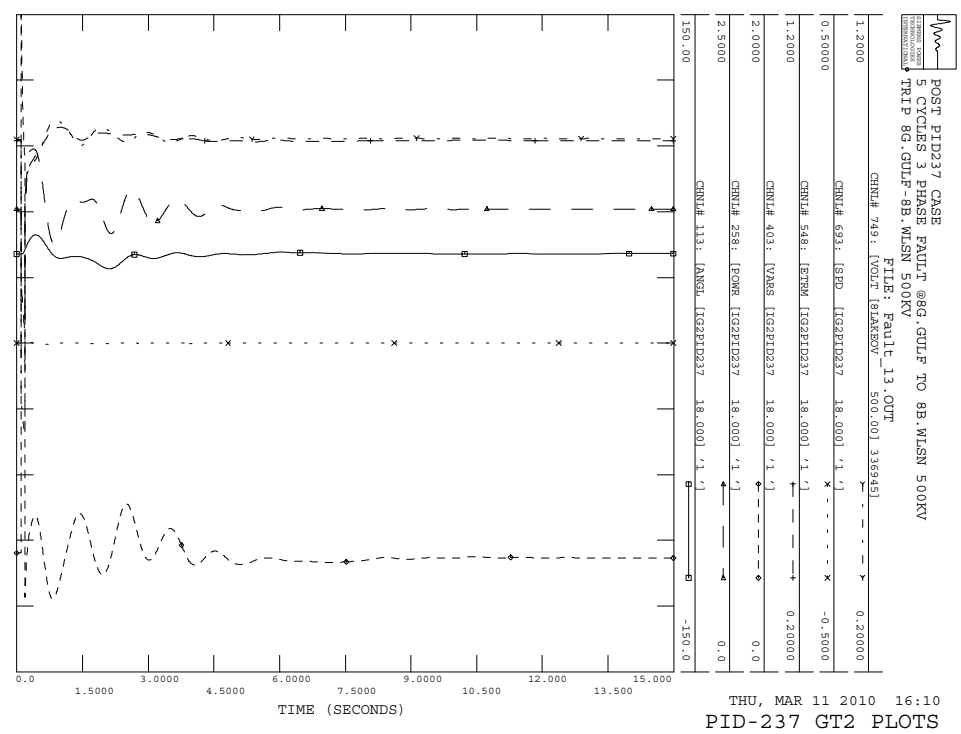
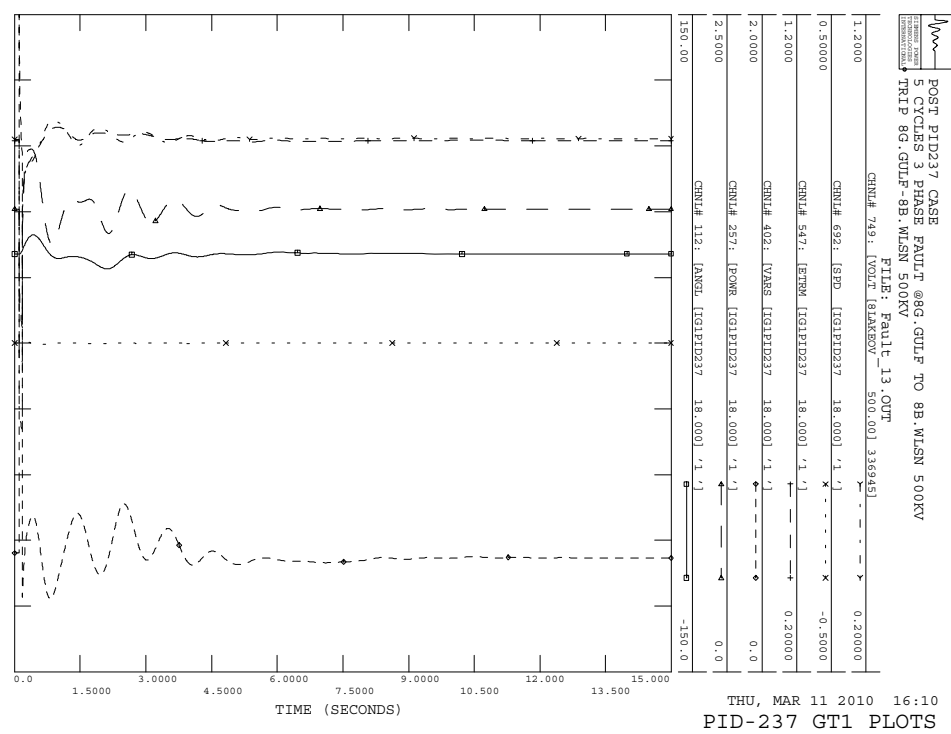
Trip 8MCADAM-8LAKEOV 500kV & McAdams 500/230 Xfmr

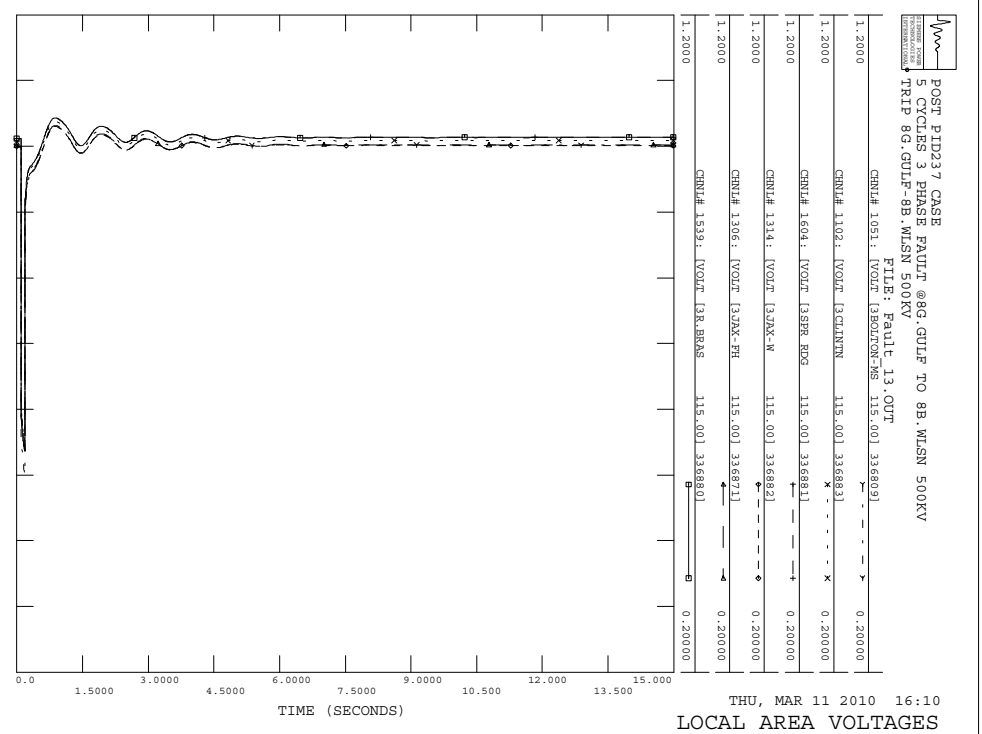
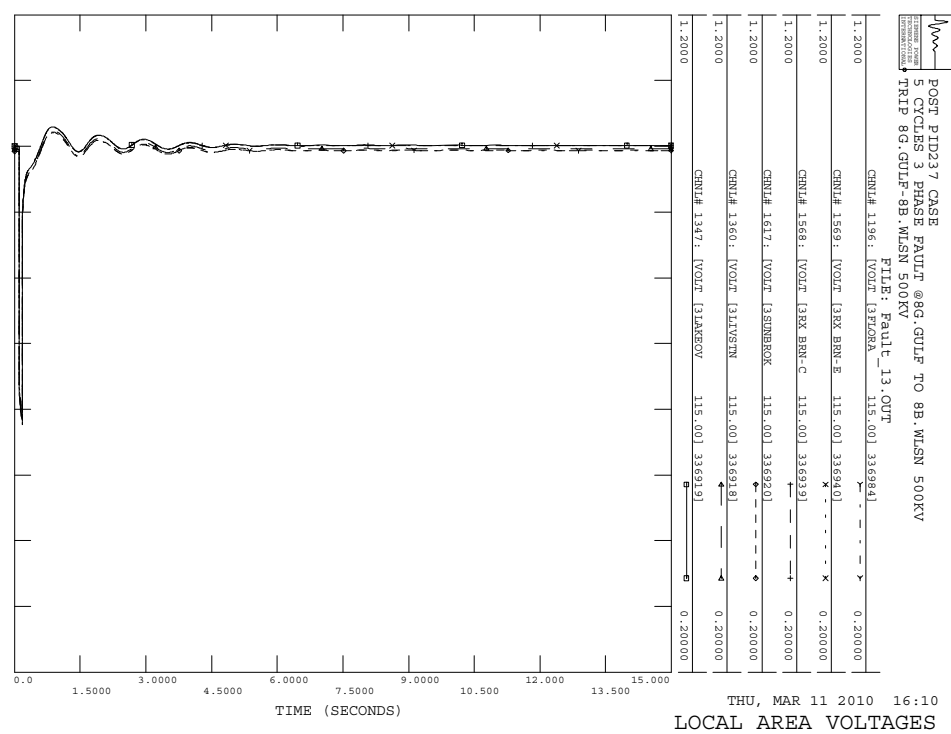
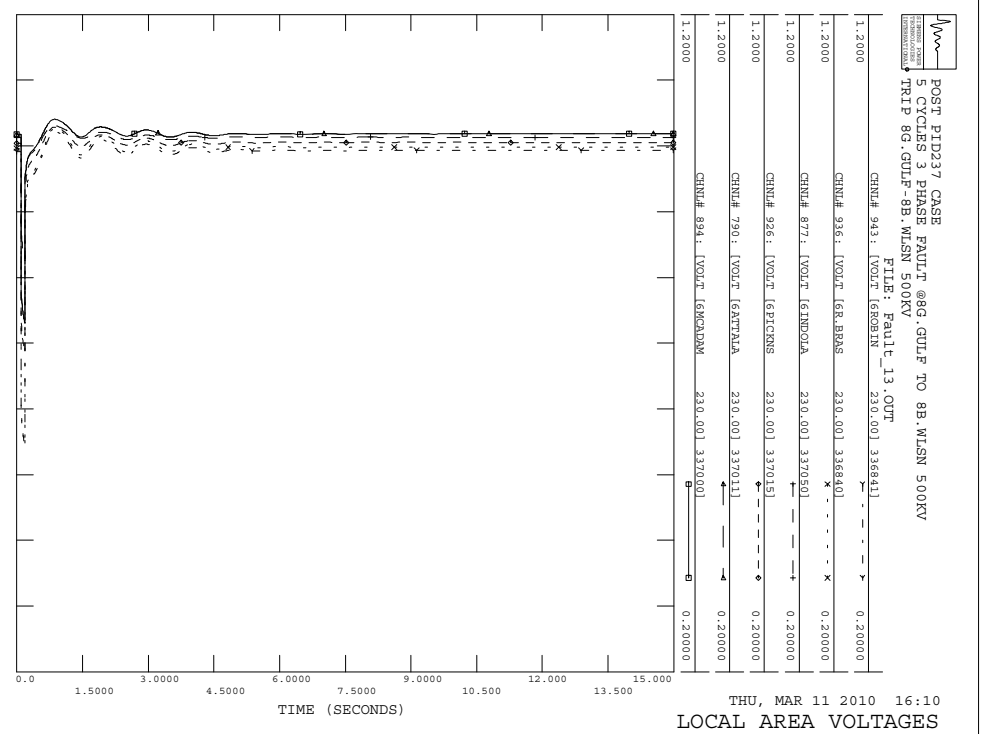
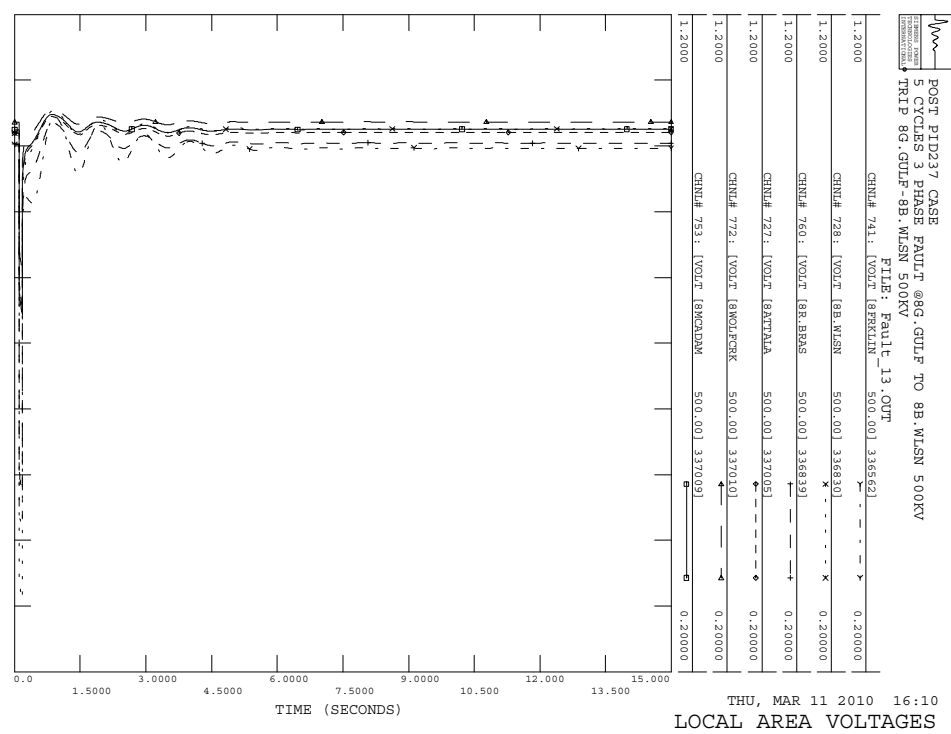




## **C.26 Fault\_13**

5 cycles 3 Phase Fault @8G.GULF to 8B.WLSN 500kV  
Trip 8G.GULF-8B.WLSN 500kV

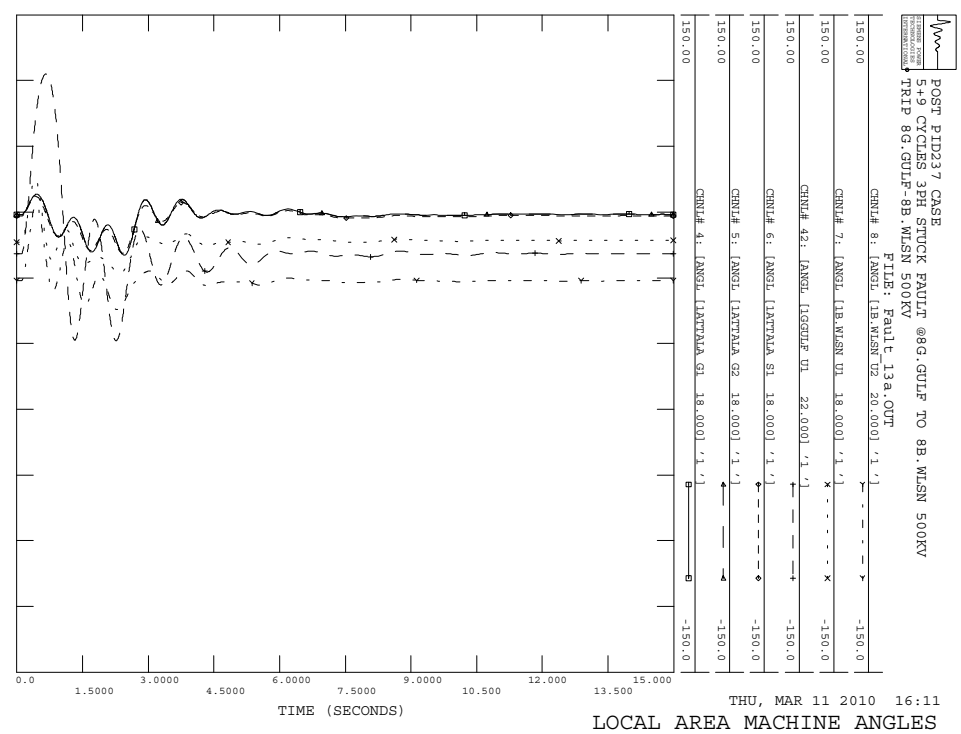
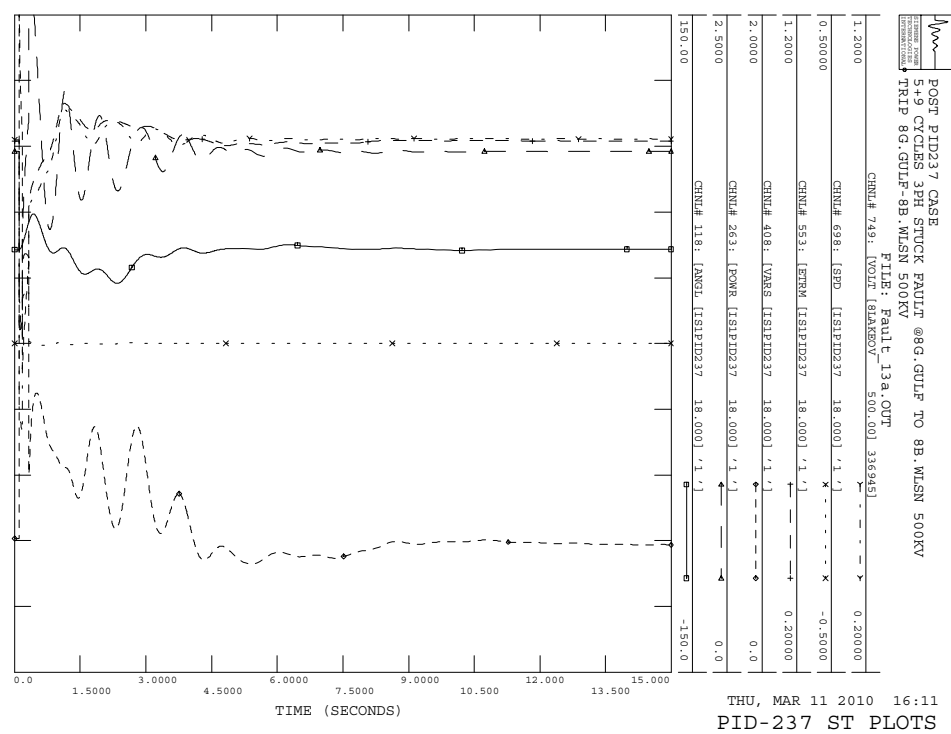
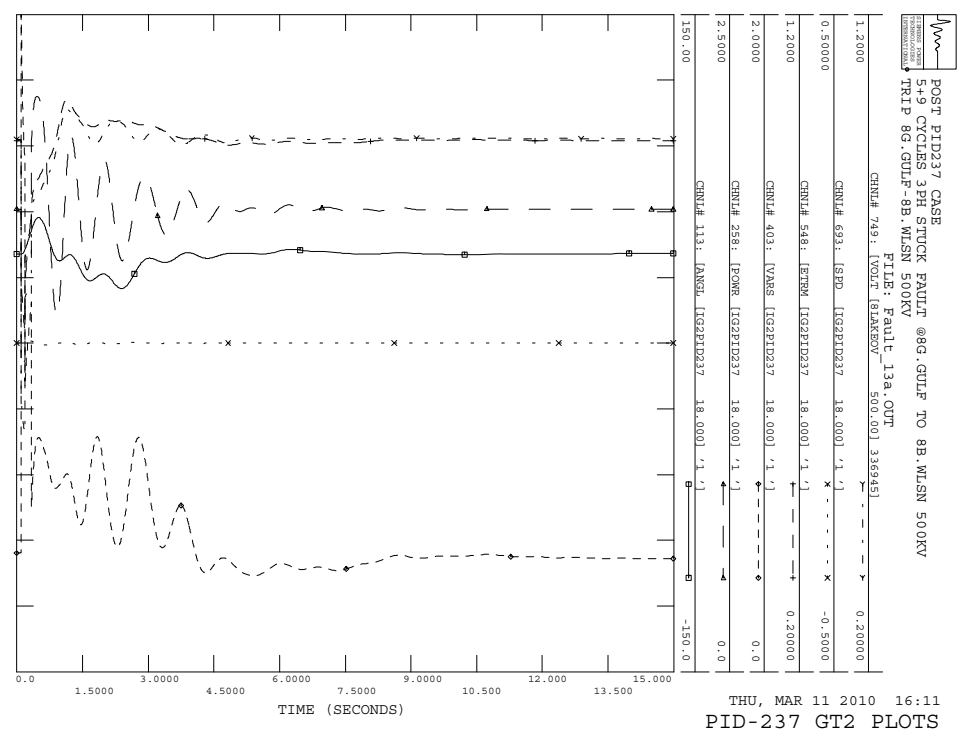
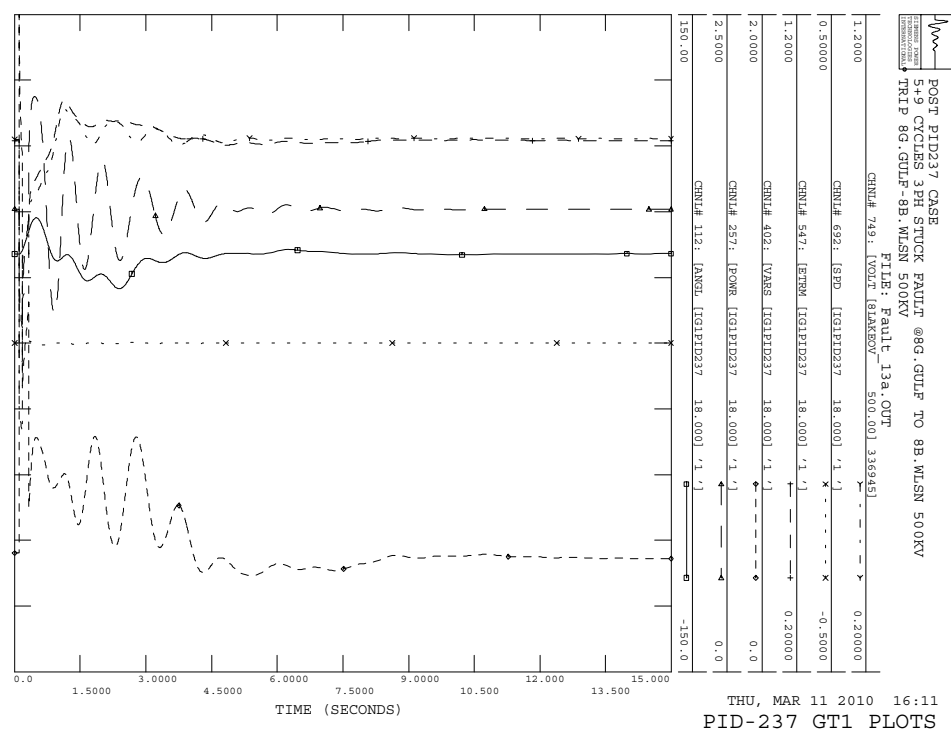


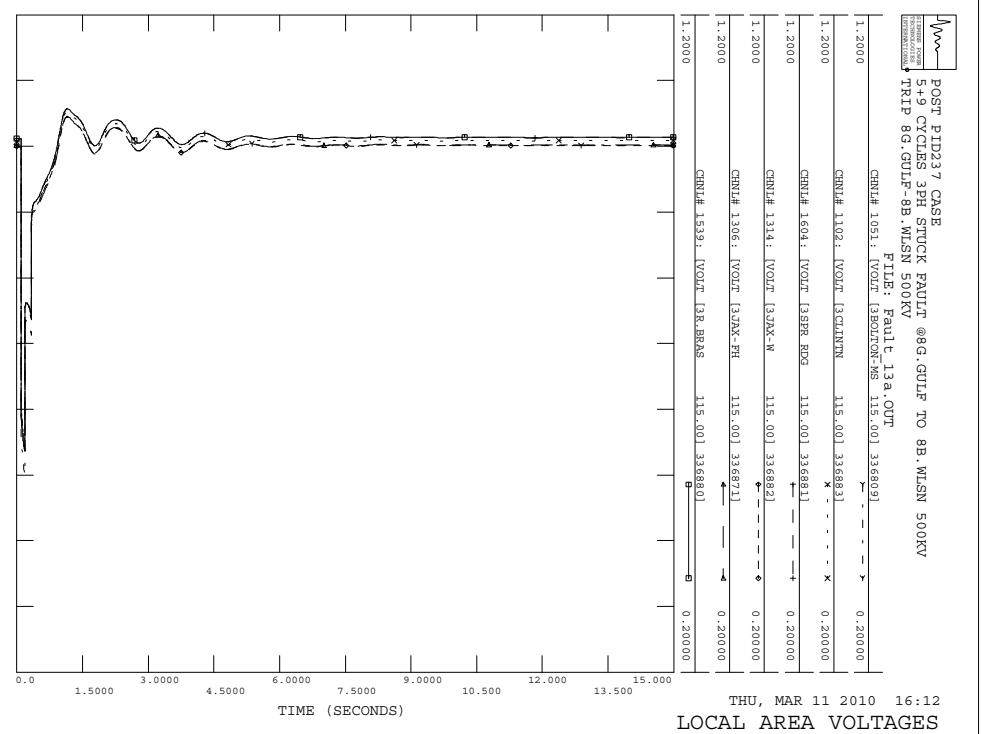
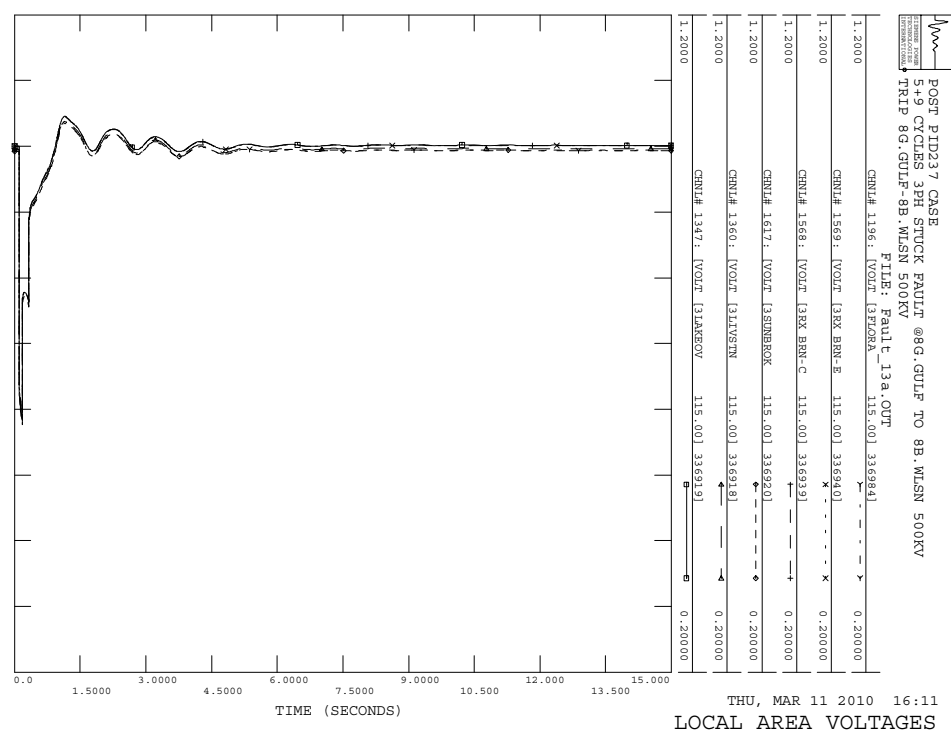
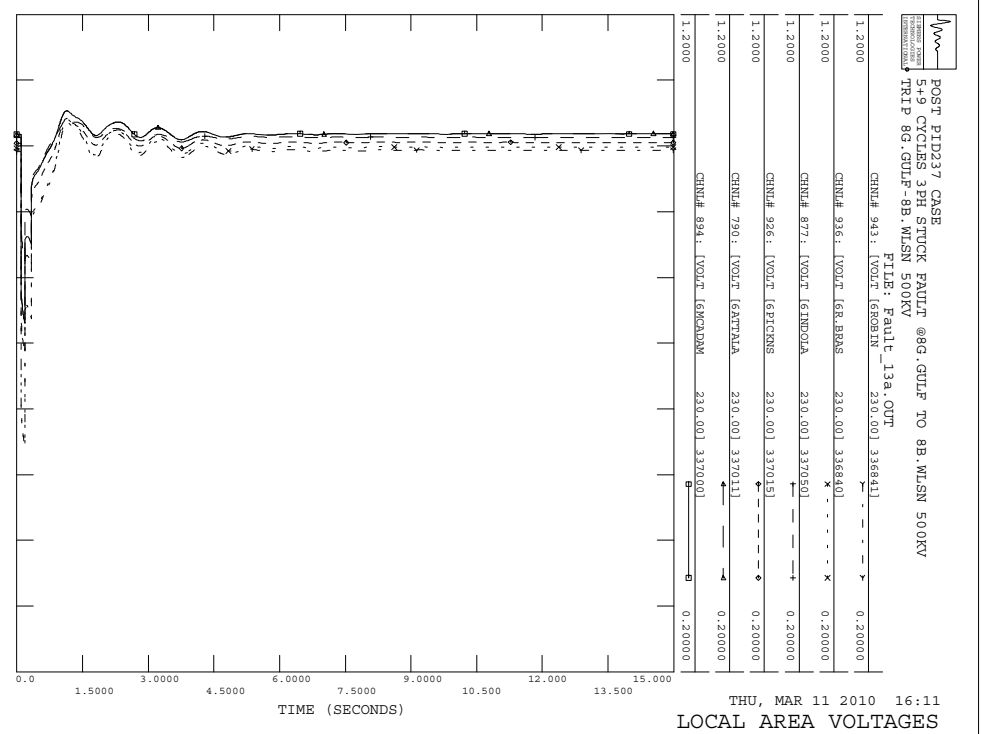
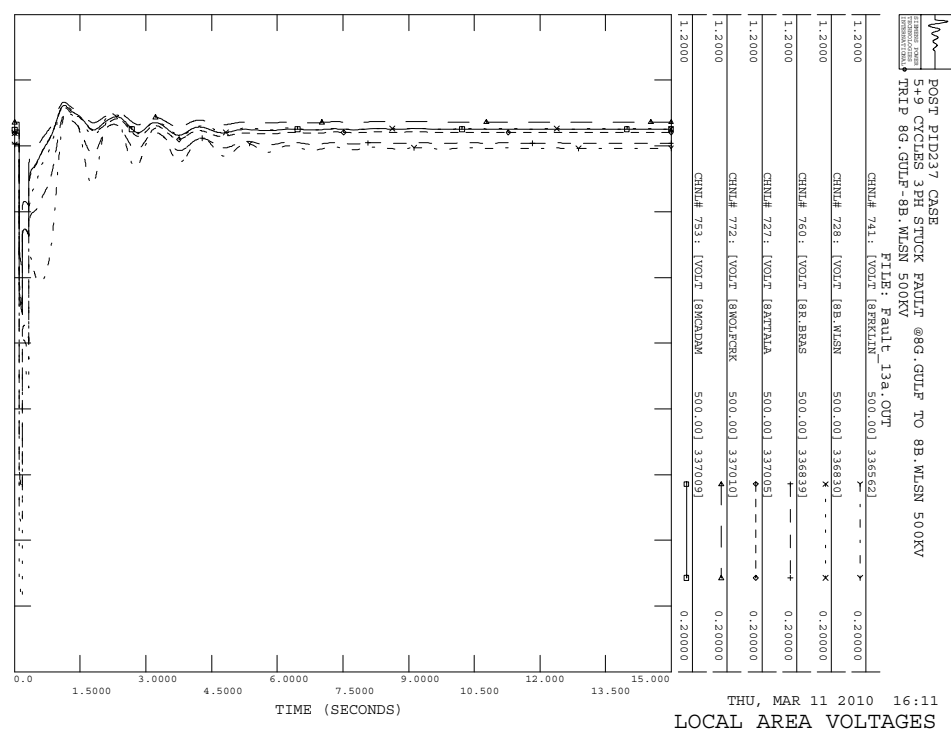


## **C.27 Fault\_13a**

5+9 cycles 3Ph Stuck Fault @8G.GULF to 8B.WLSN 500kV  
Trip 8G.GULF-8B.WLSN 500kV







## **C.28 Fault\_14**

5 cycles 3 Phase Fault @8G.GULF to 8FRKLIN 500kV  
Trip 8G.GULF-8FRKLIN 500kV

