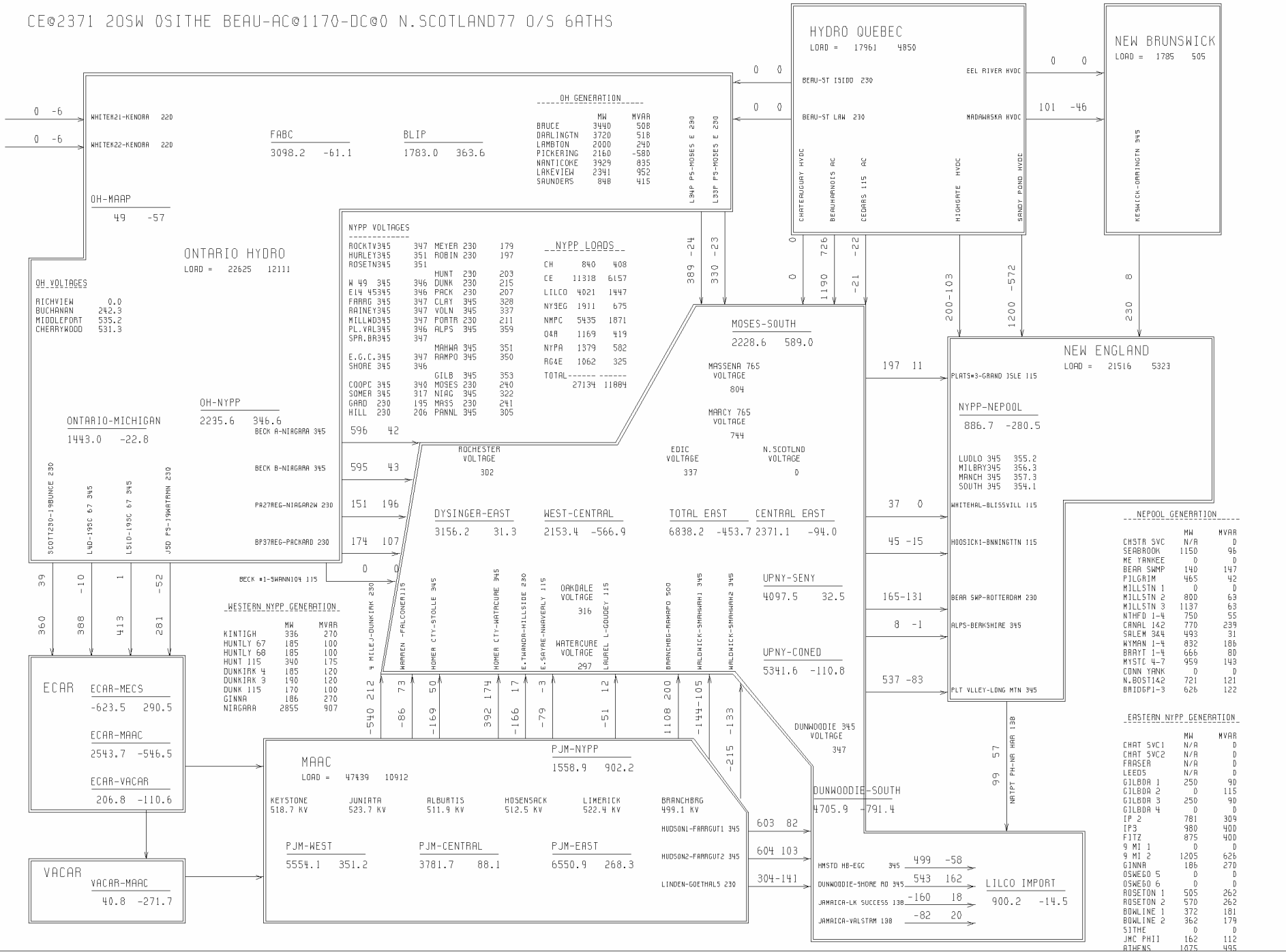


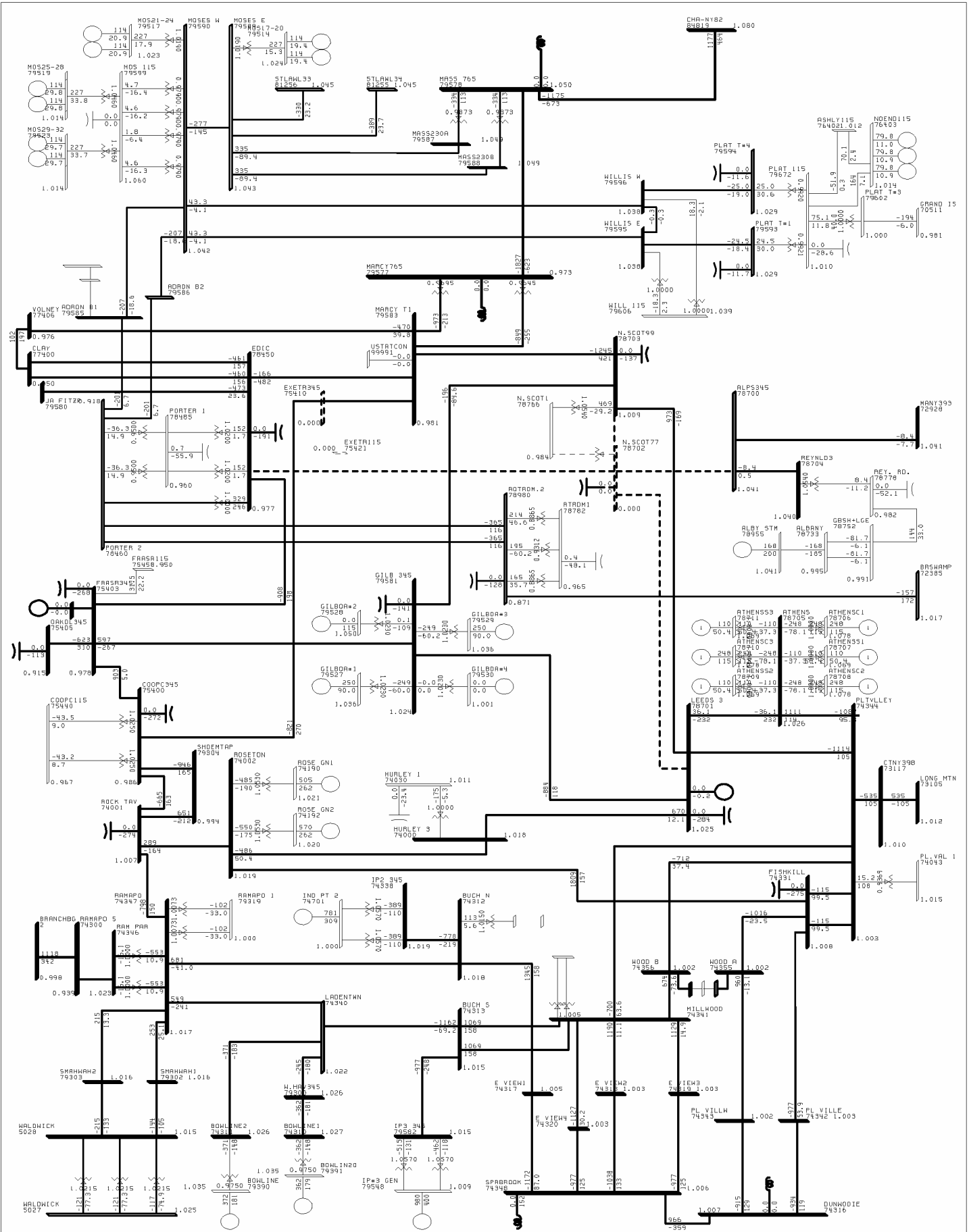
APPENDIX A  
(Dynamic Simulation Plots)

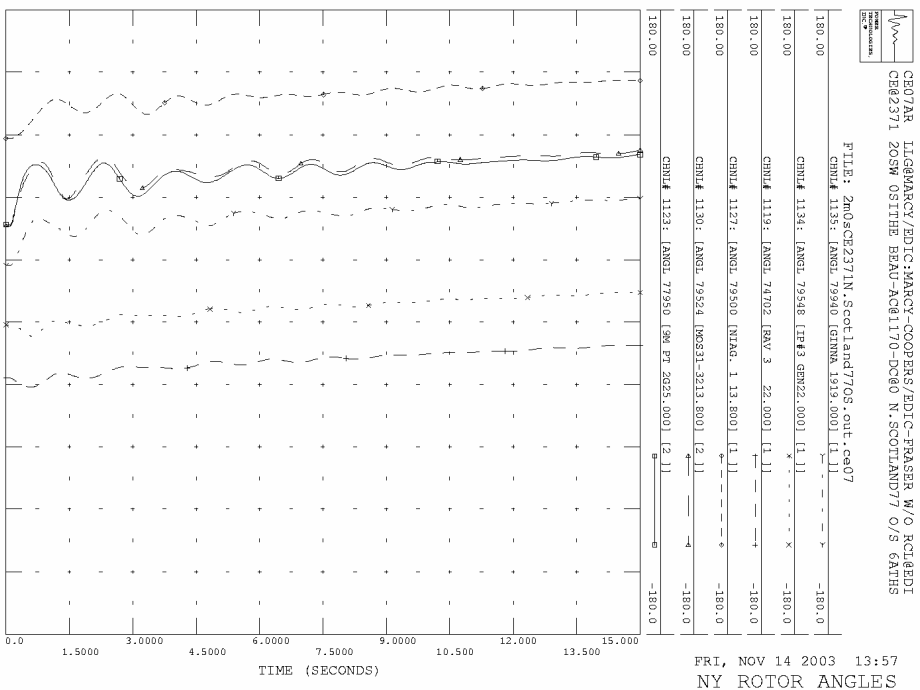
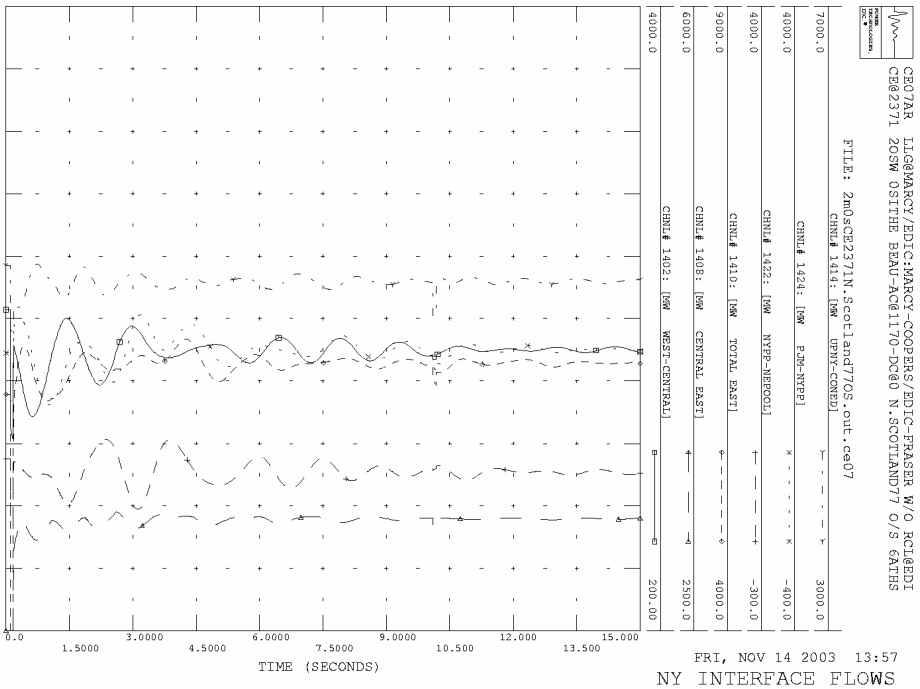
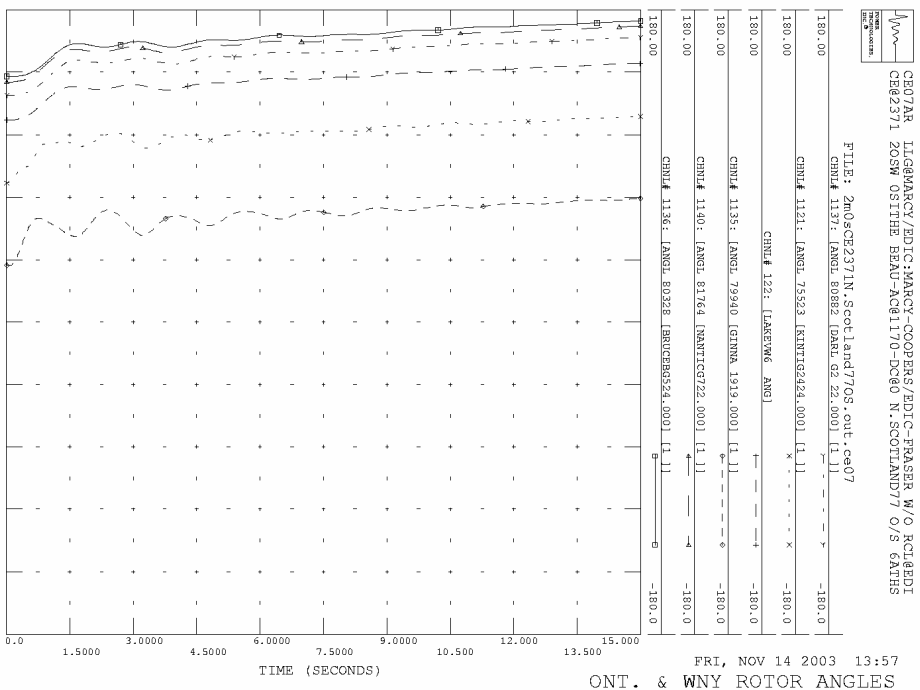
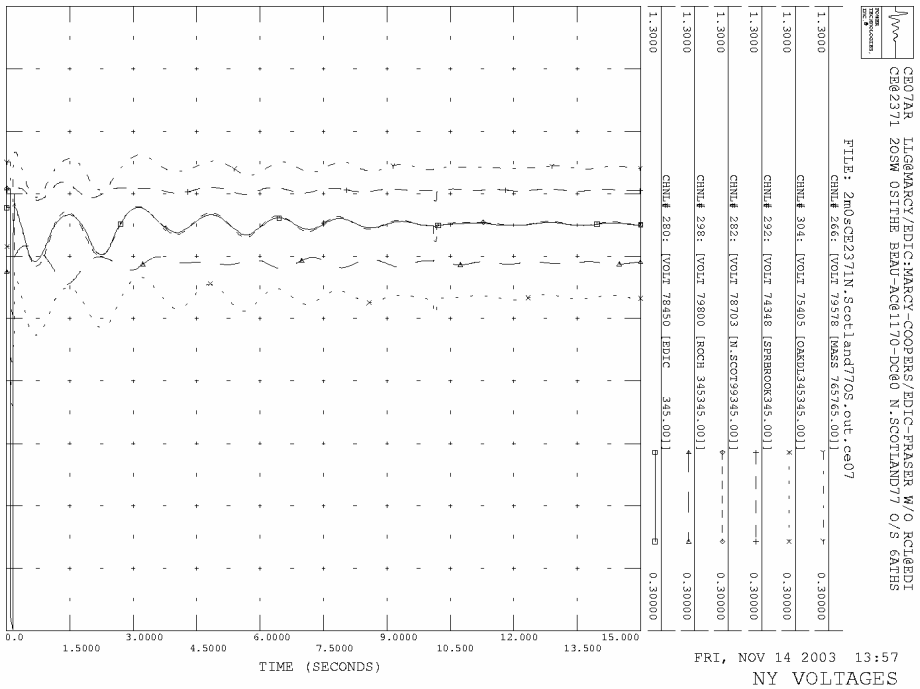
CENTRAL EAST LINE OUTAGES

New Scotland 77/99 Bus 345 kV O/S  
Edic – New Scotland (14) 345 kV O/S  
Marcy – New Scotland (18) 345 kV O/S  
Lafayette – Oakdale (4) 345 kV O/S  
Oakdale – Frazer (32) 345 kV O/S

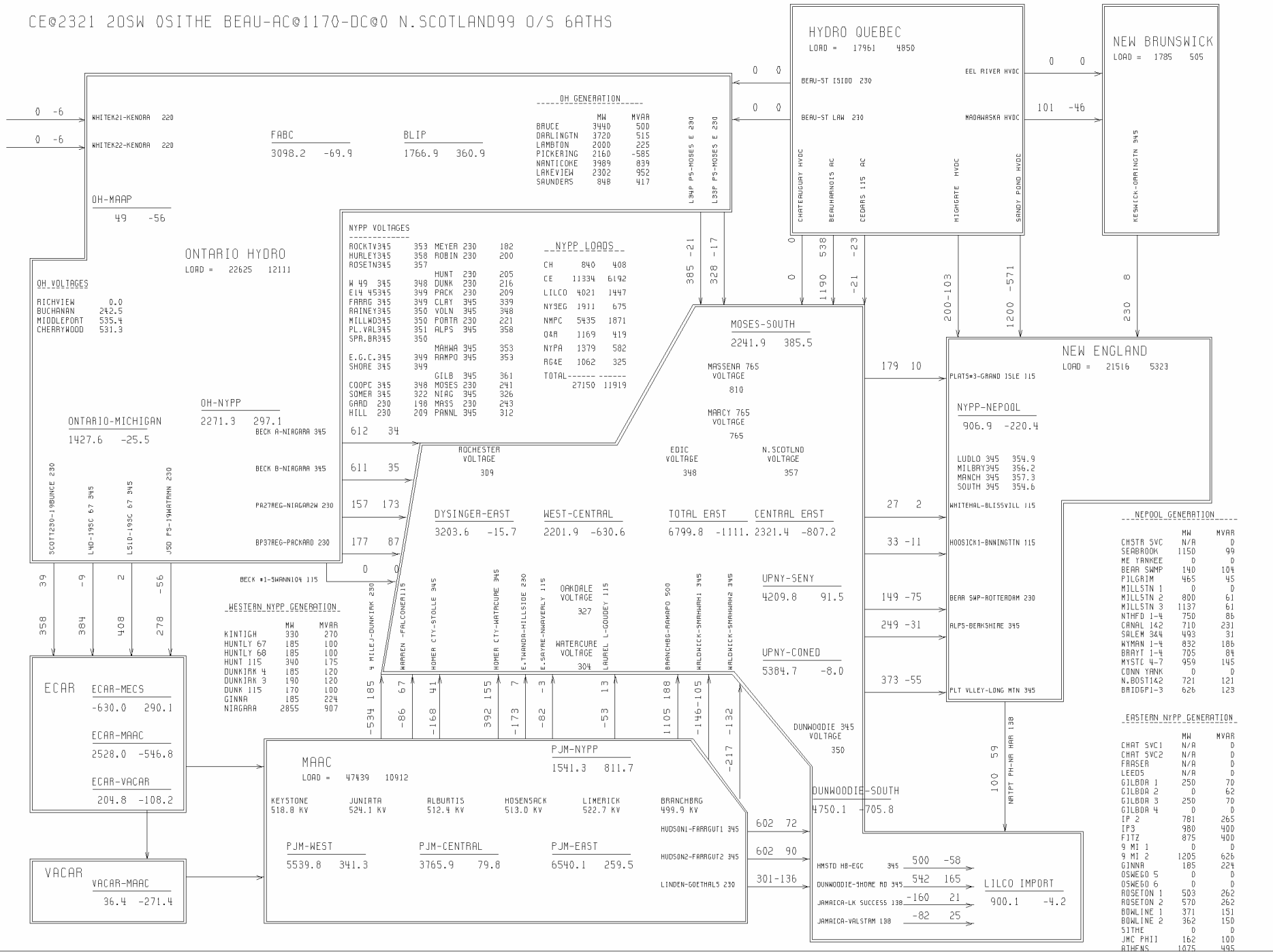
MOPAR5STAT2A.SAV B/O SUMMER MEN/VEH BASE CASE 200MVA STATCON  
 CE@2371 20SW 0SITHE BEAU-AC@1170-DC@0 N.SCOTLAND77 0/S 6ATHS





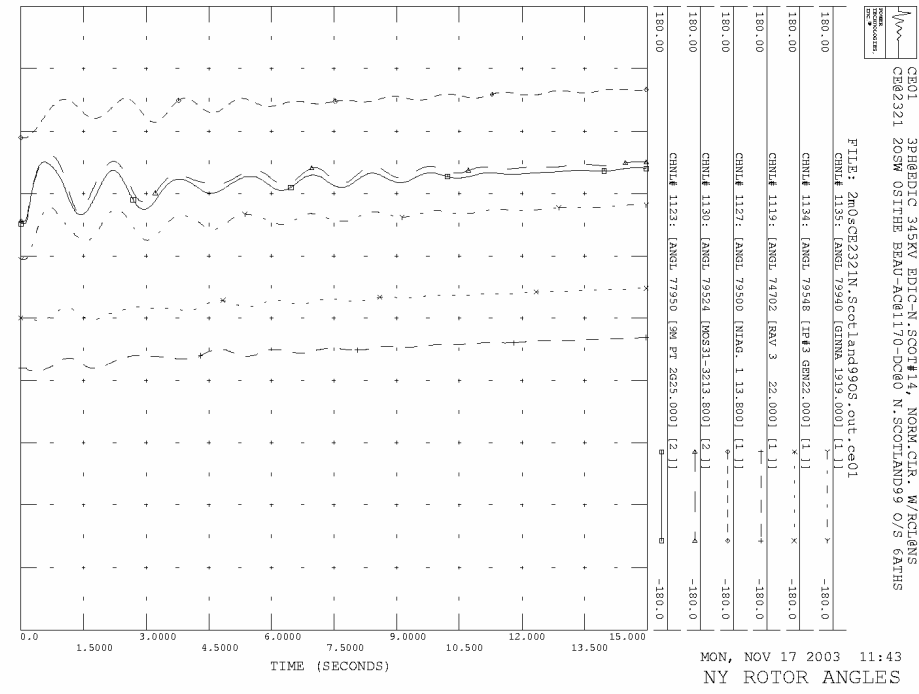
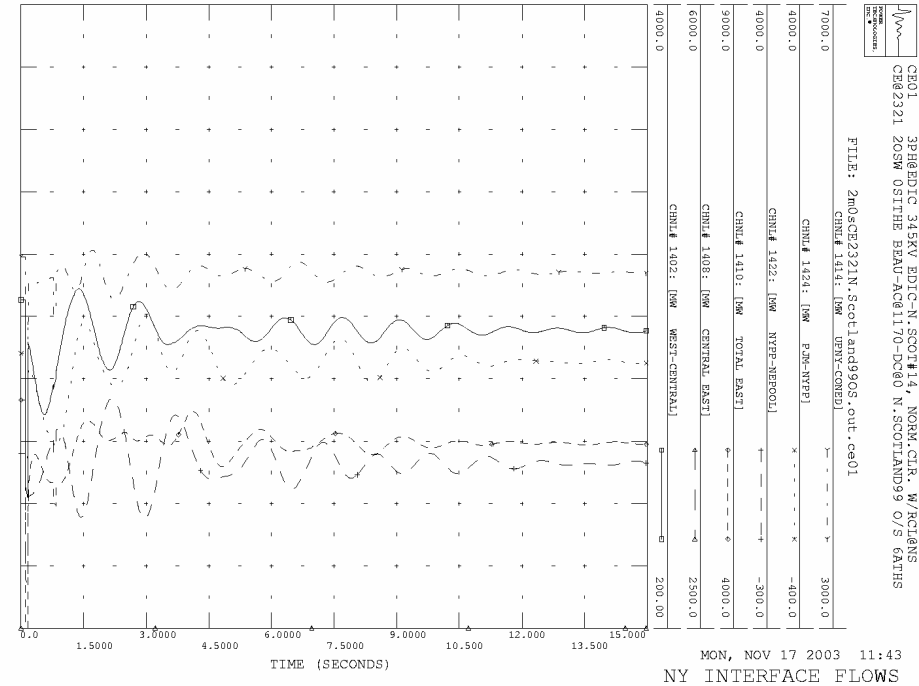
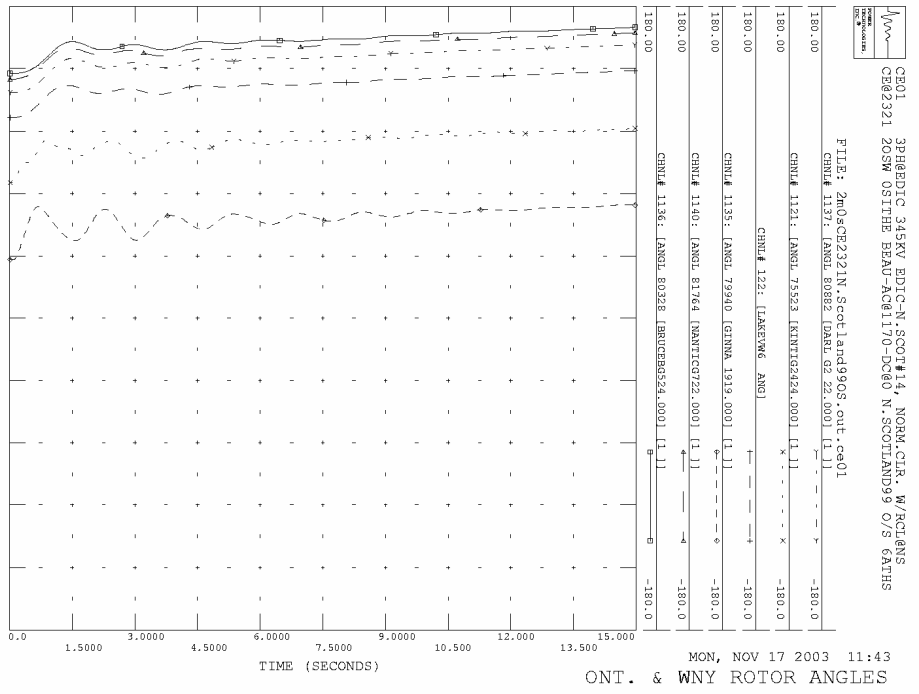
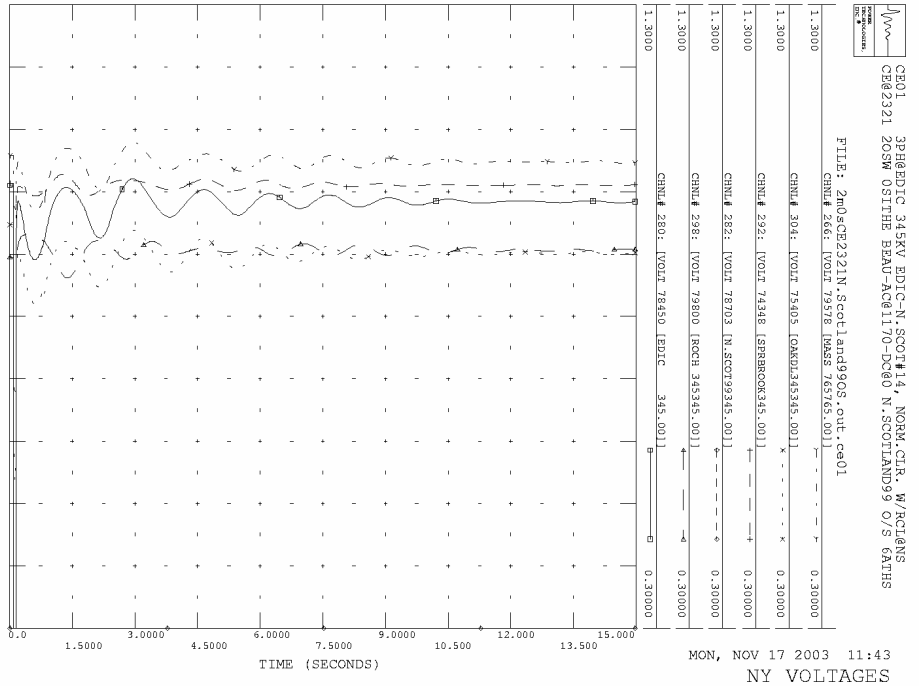


MOPAR5STAT2A.SAV B/O SUMMER MEN/VEM BASE CASE 200MVA STATCON  
 CE@2321 20SW OSITHE BEAU-AC@1170-DC@0 N.SCOTLAND99 0/S 6ATHS

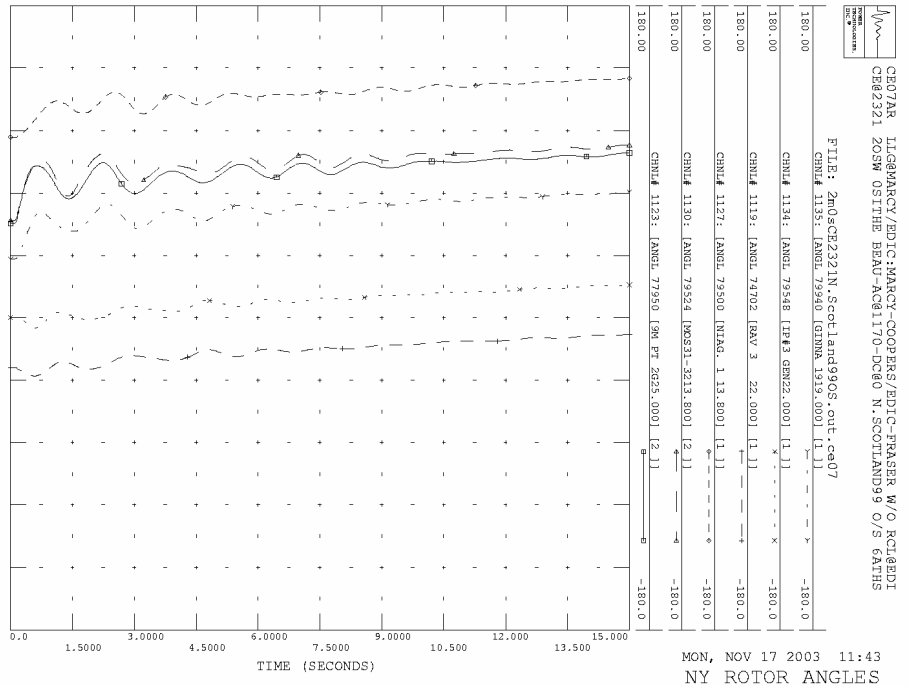
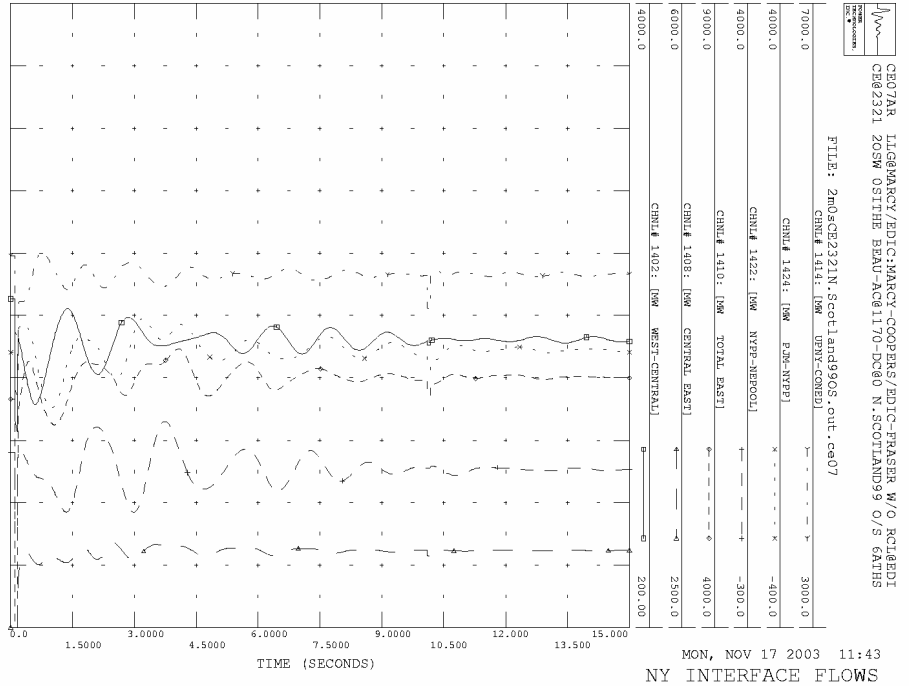
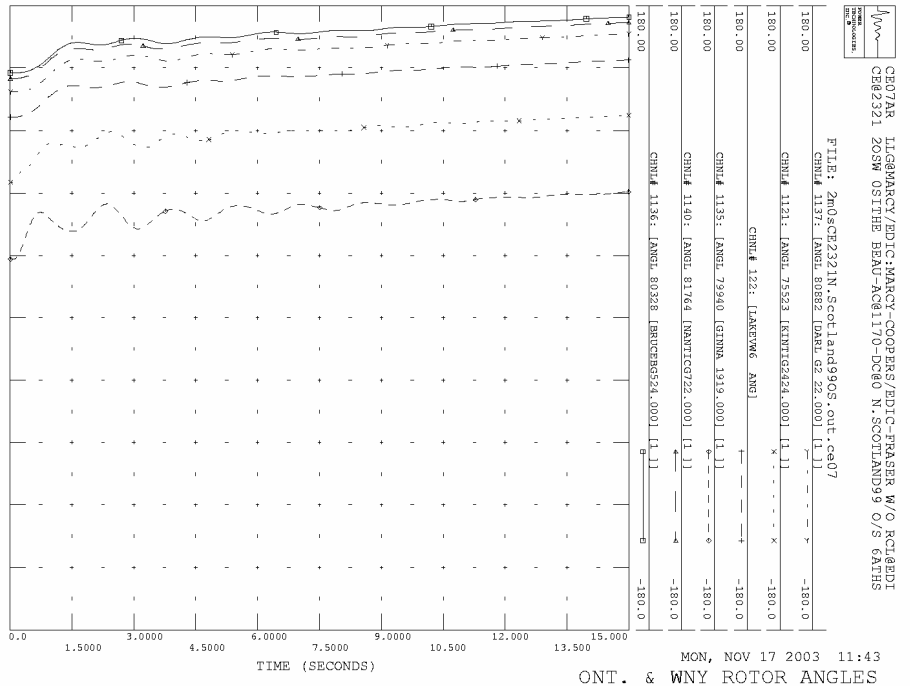
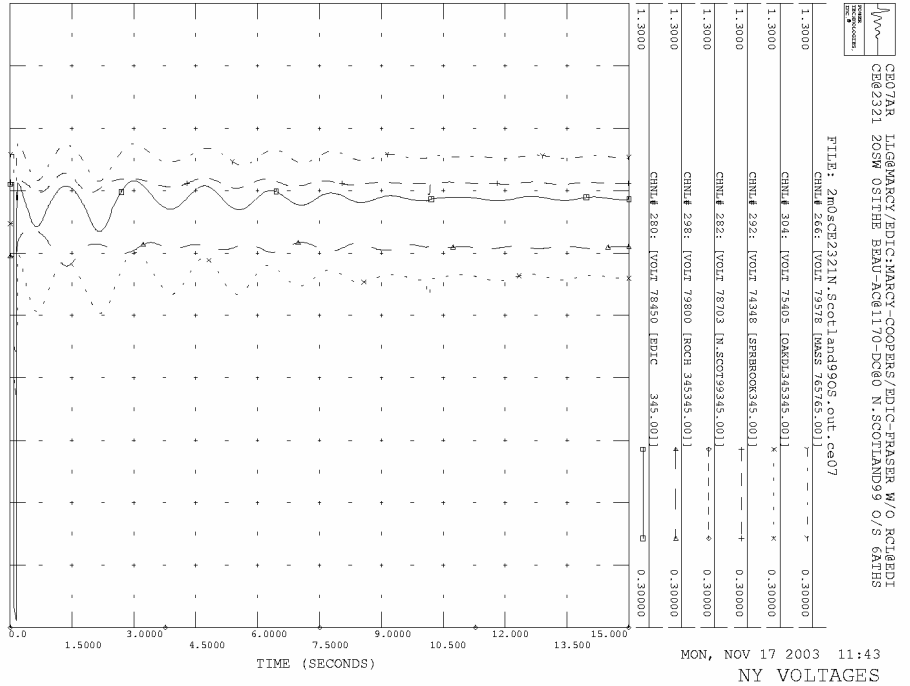




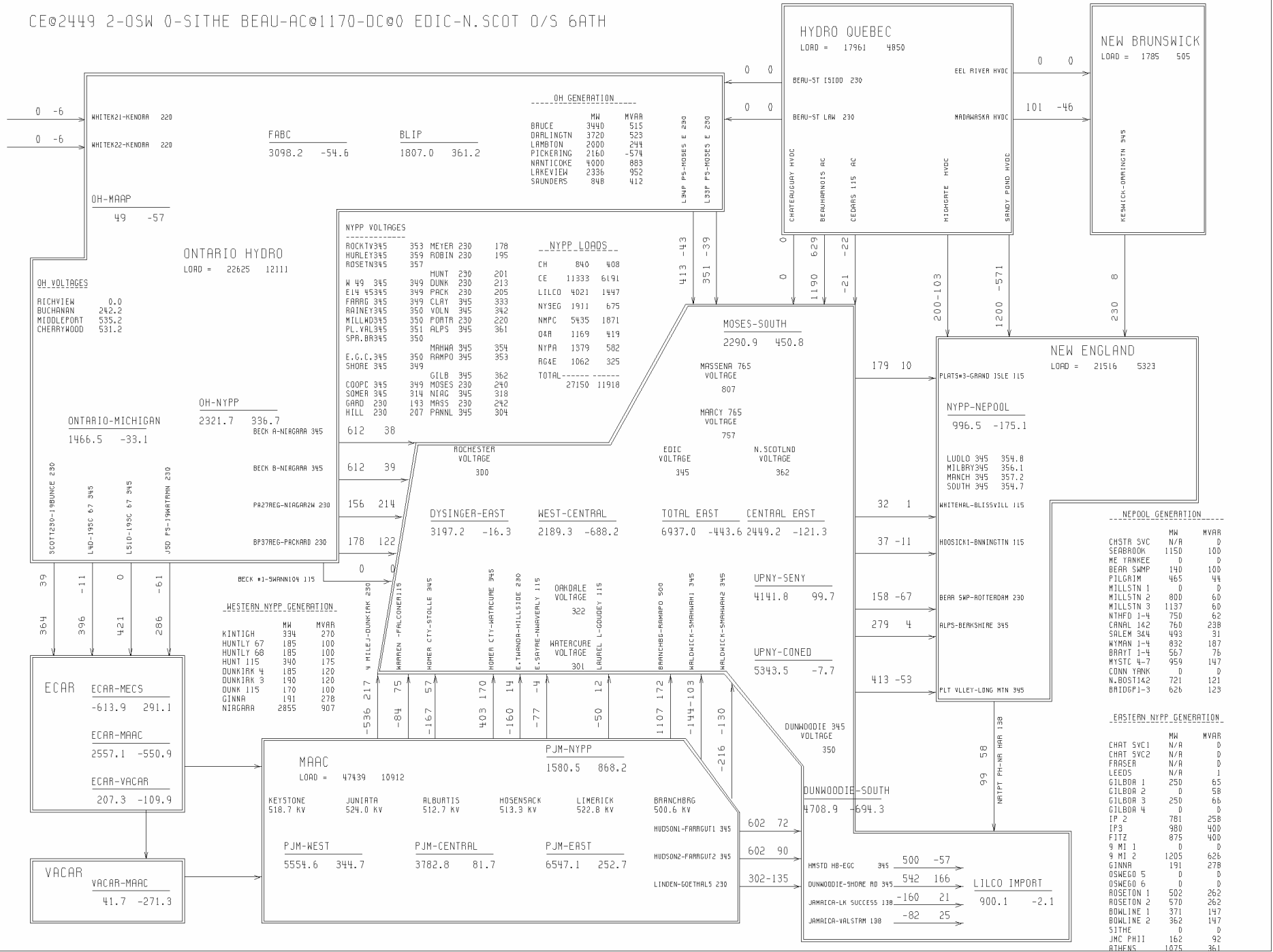




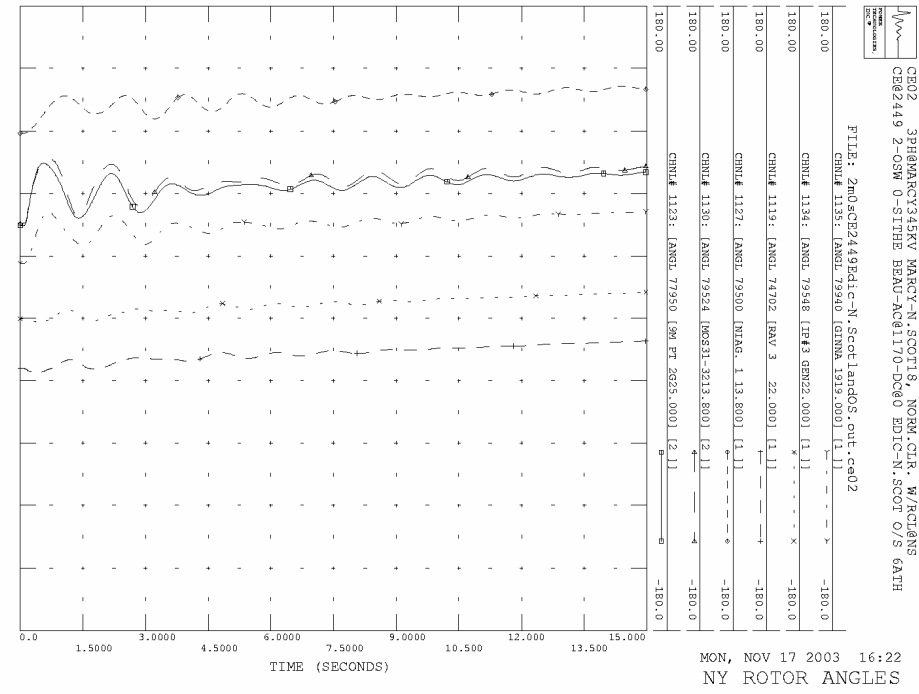
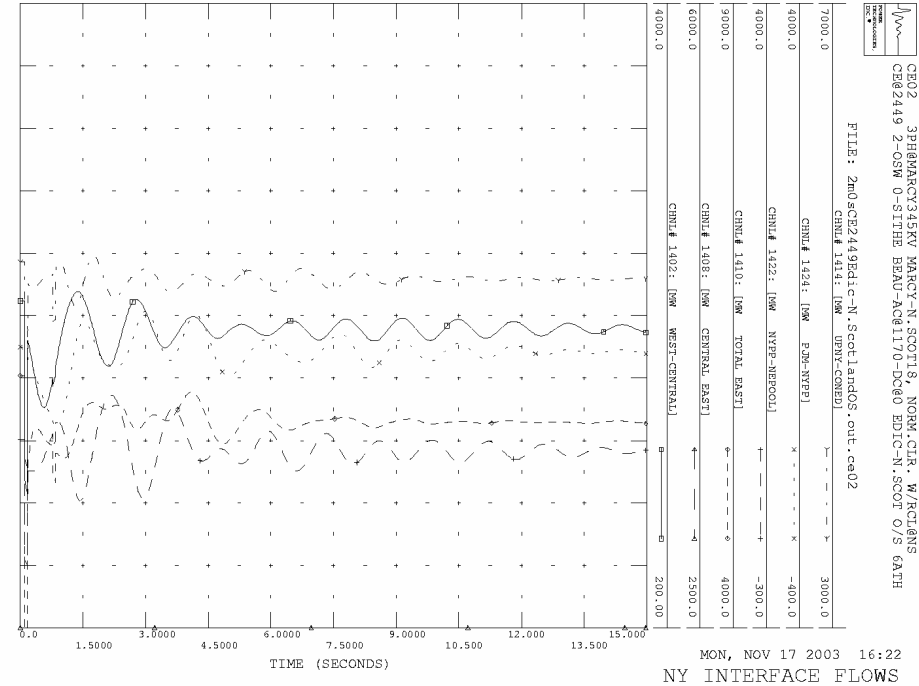
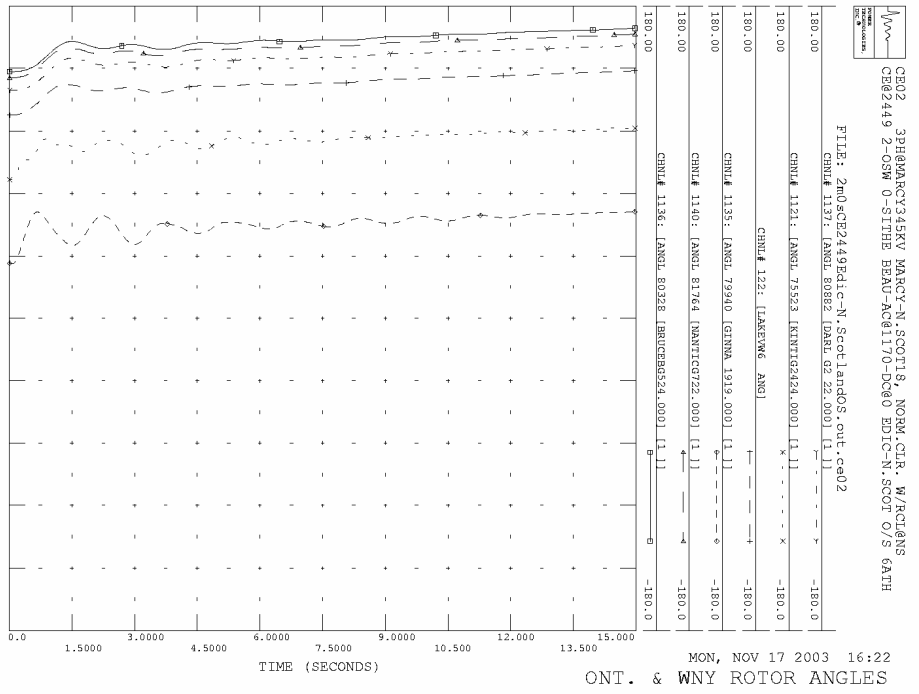
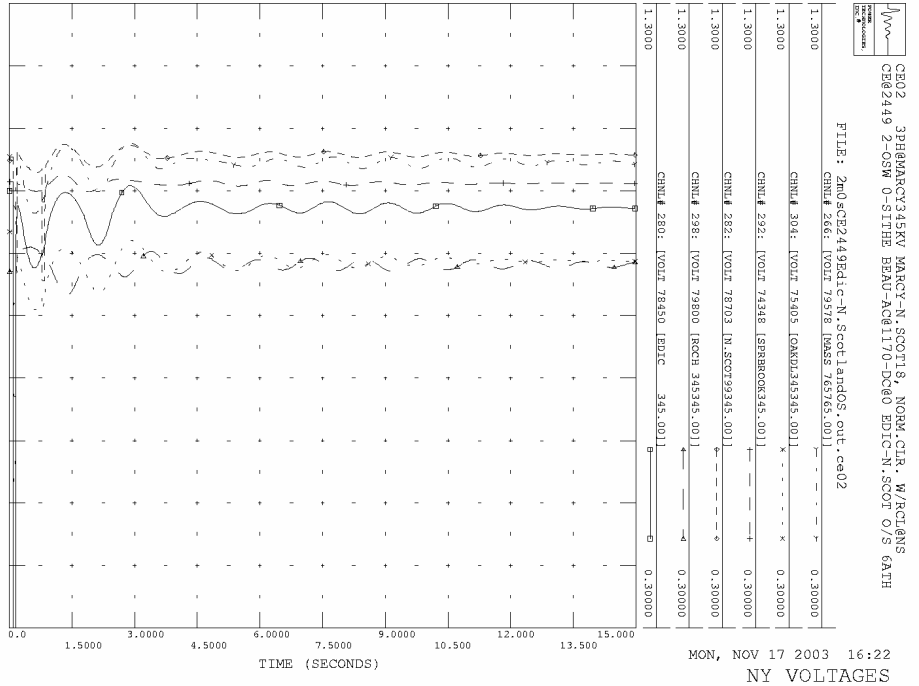


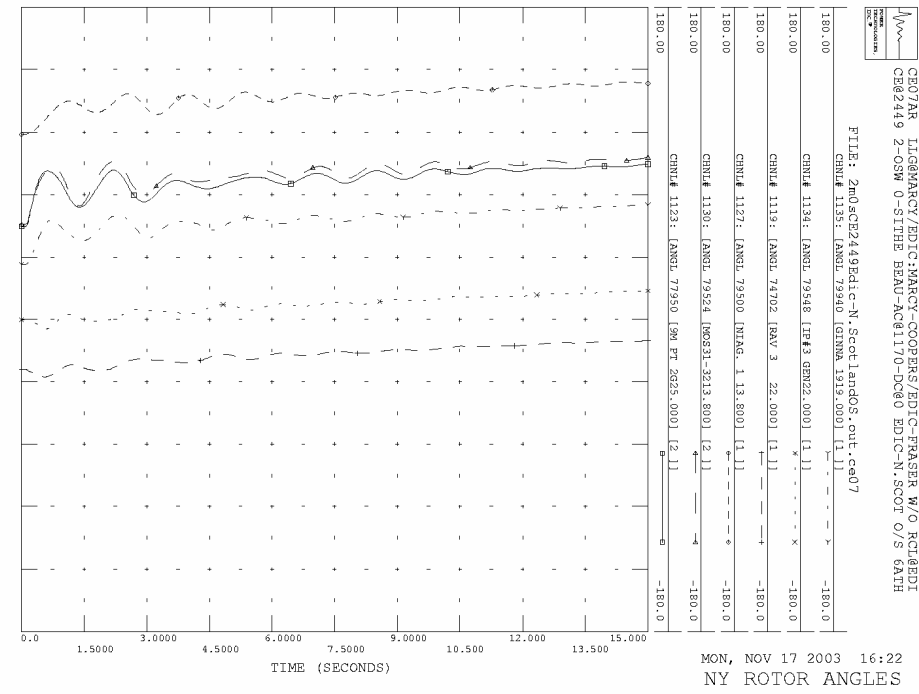
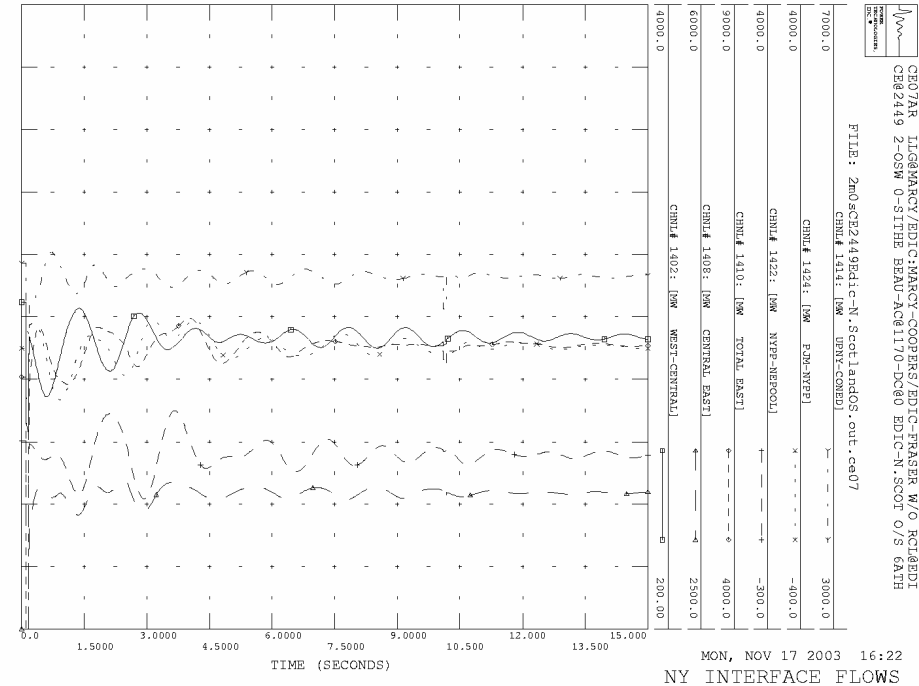
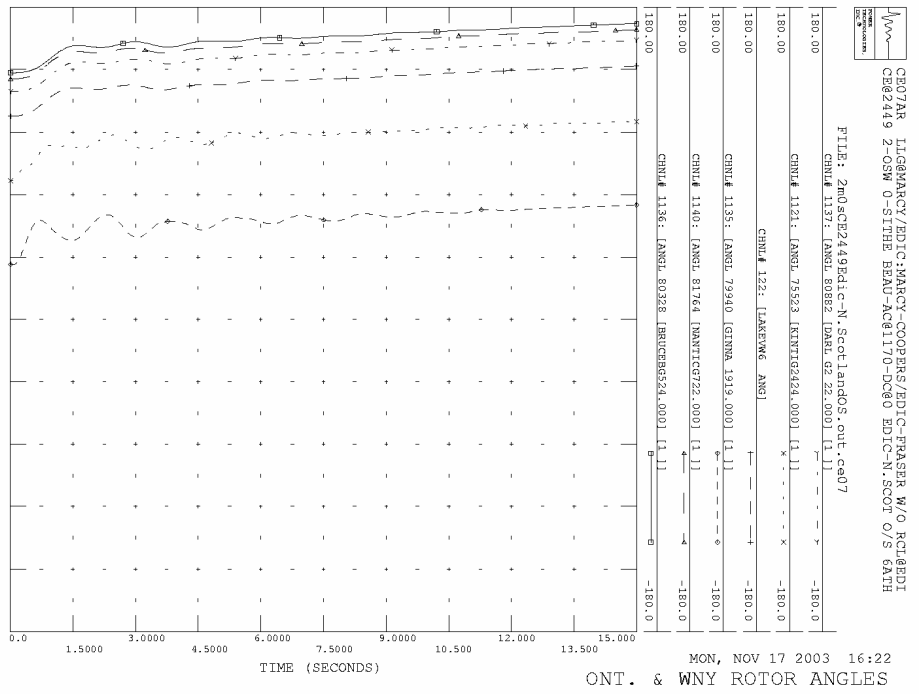
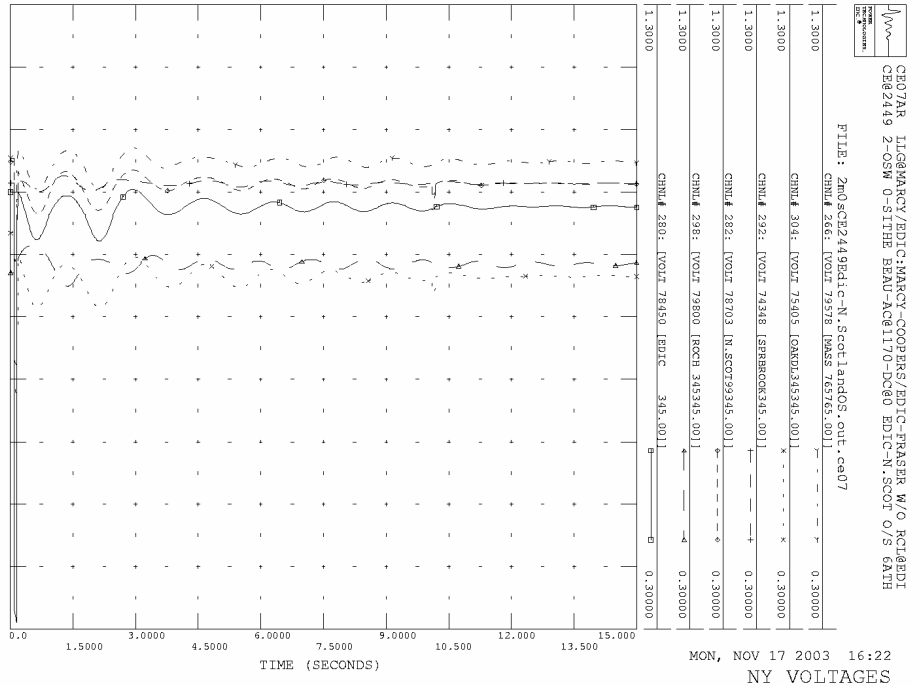


MOPARSTAT2A.SAV B/O SUMMER MEN/DEM BASE CASE 200MVA STATCON  
 CE@2449 2-OSW 0-SITHE BEAU-AC@1170-DC@0 EDIC-N.SCOT D/S 6ATH

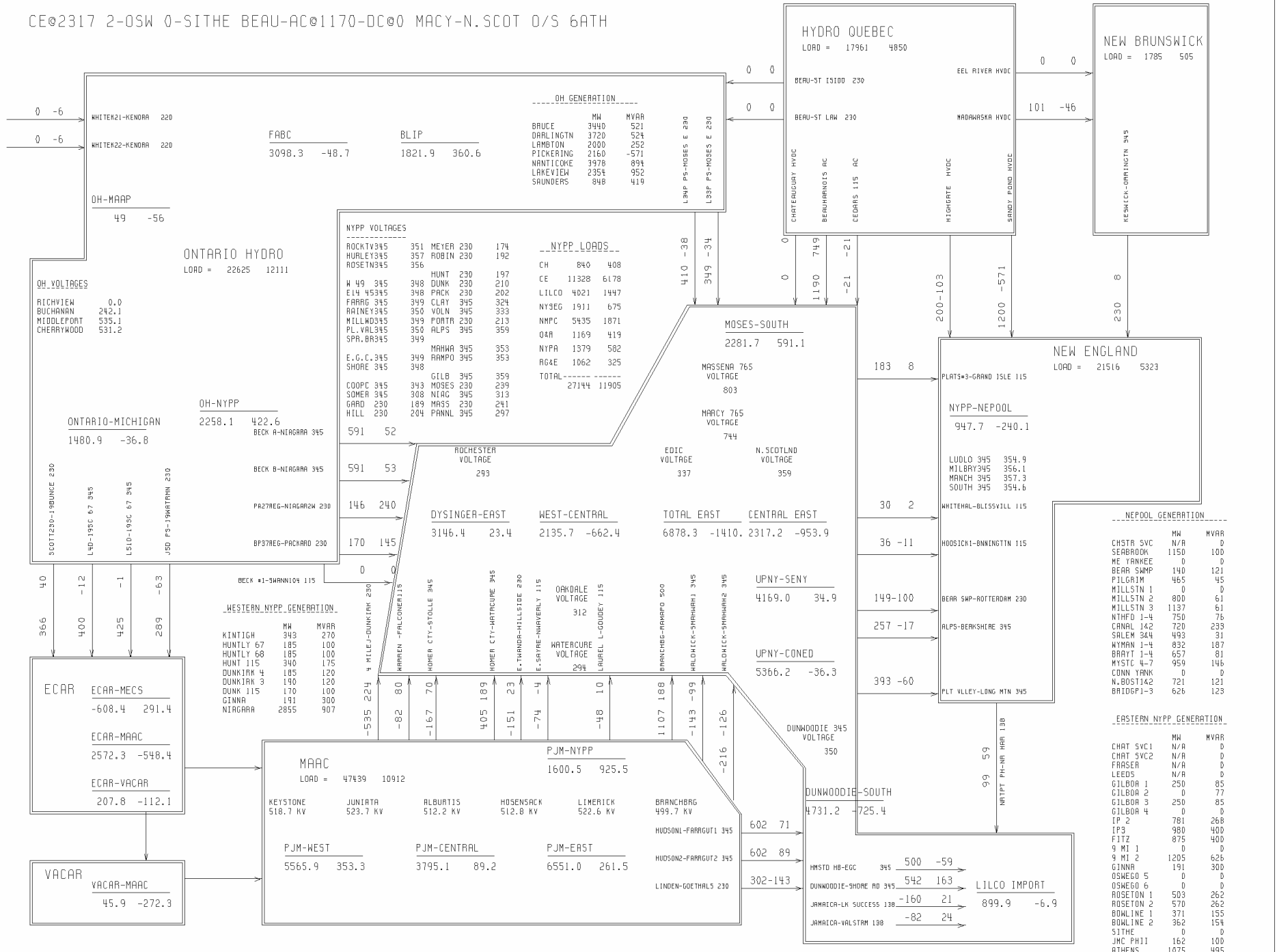


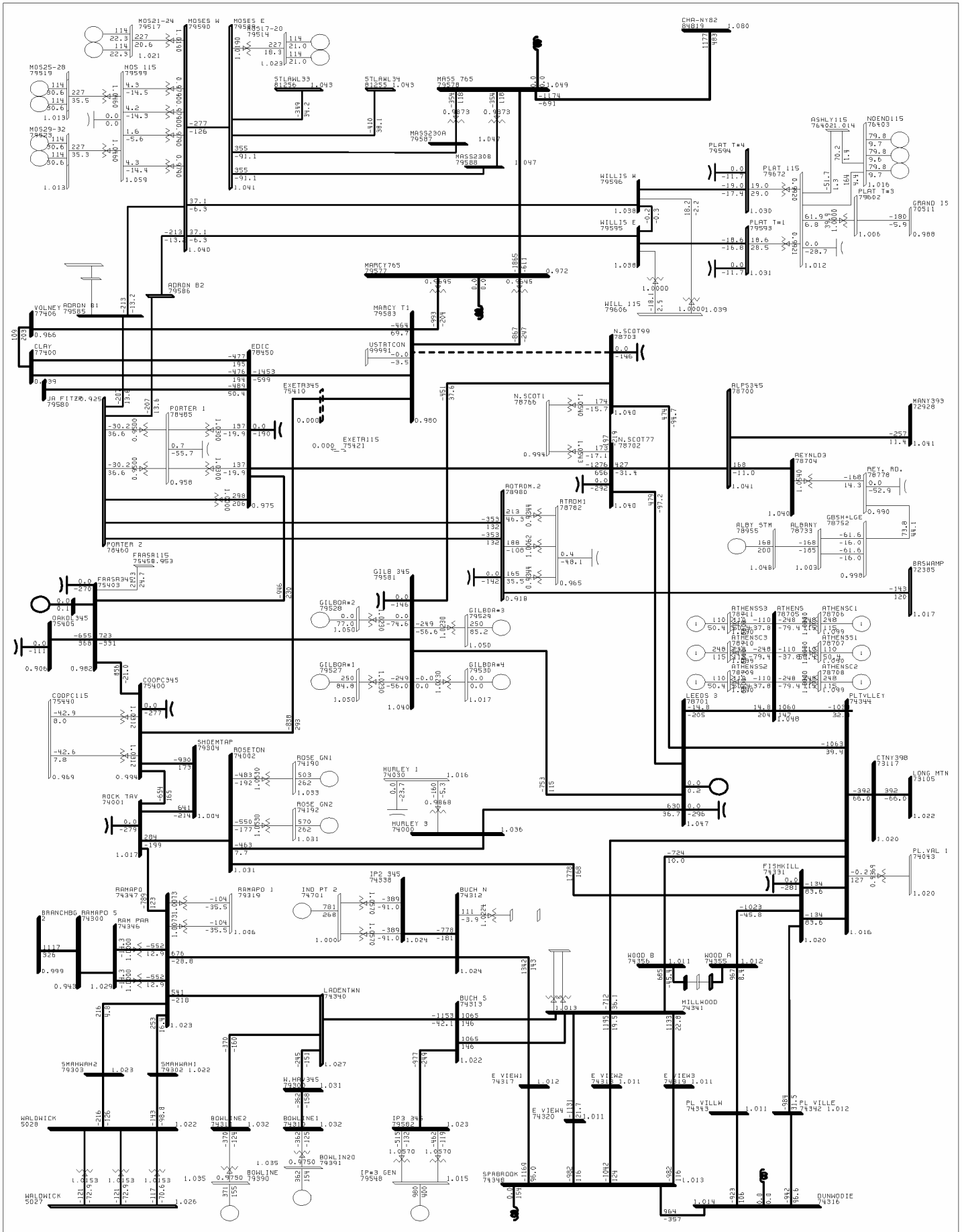


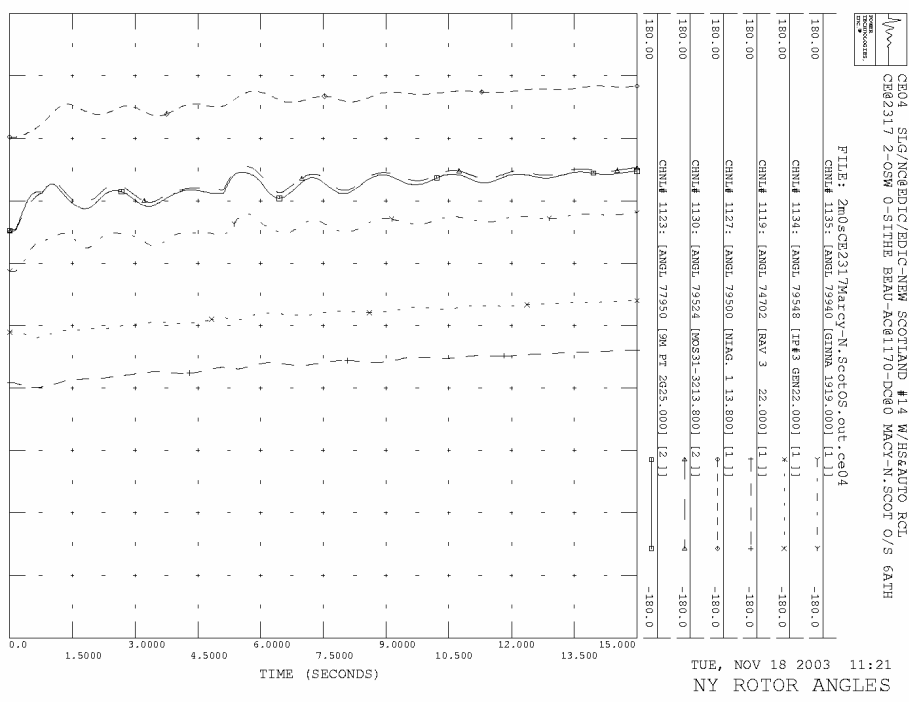
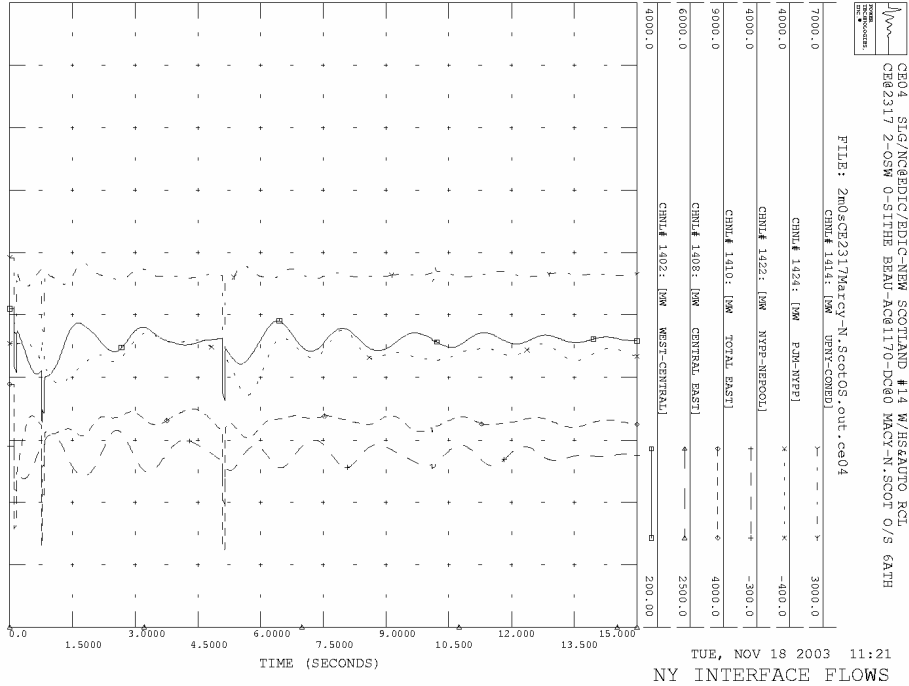
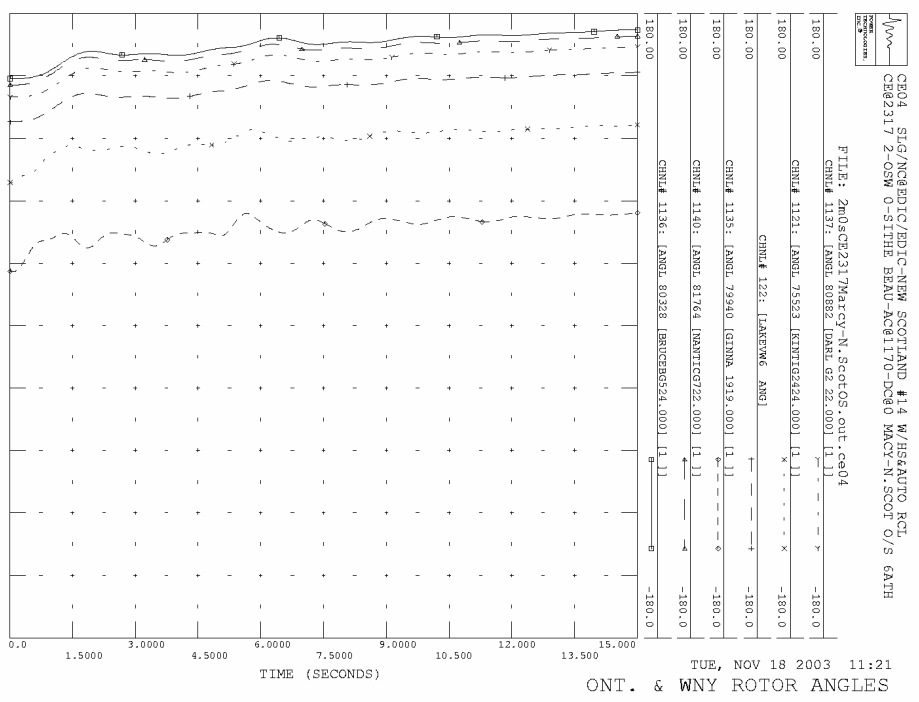
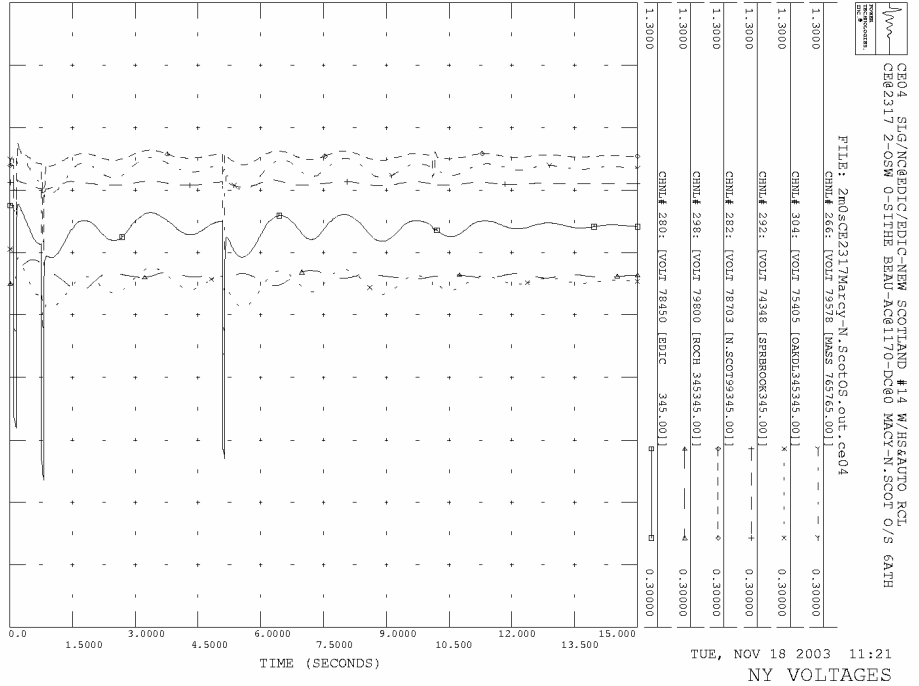




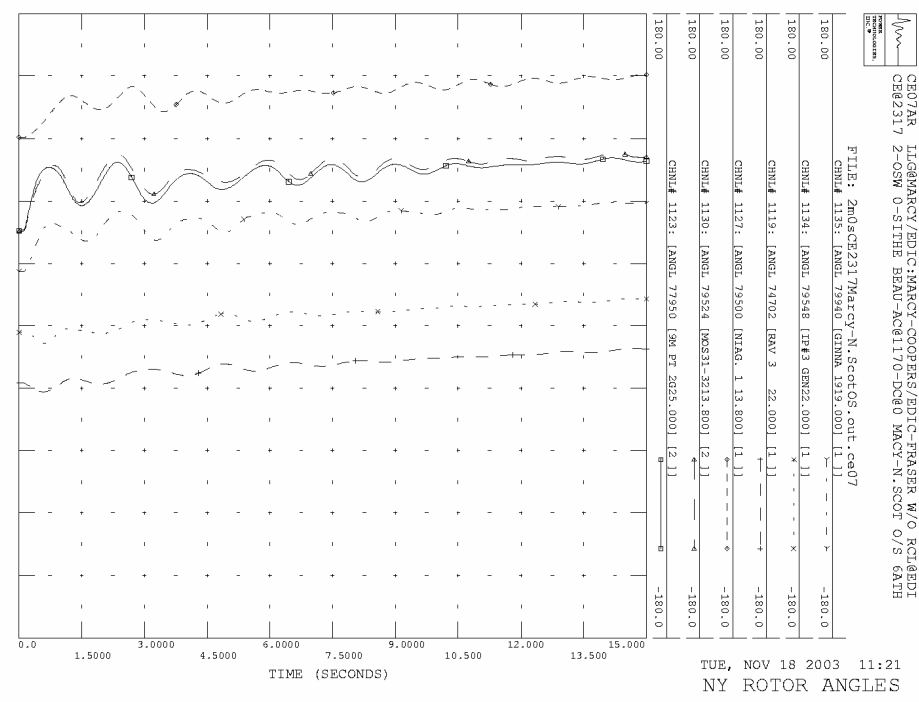
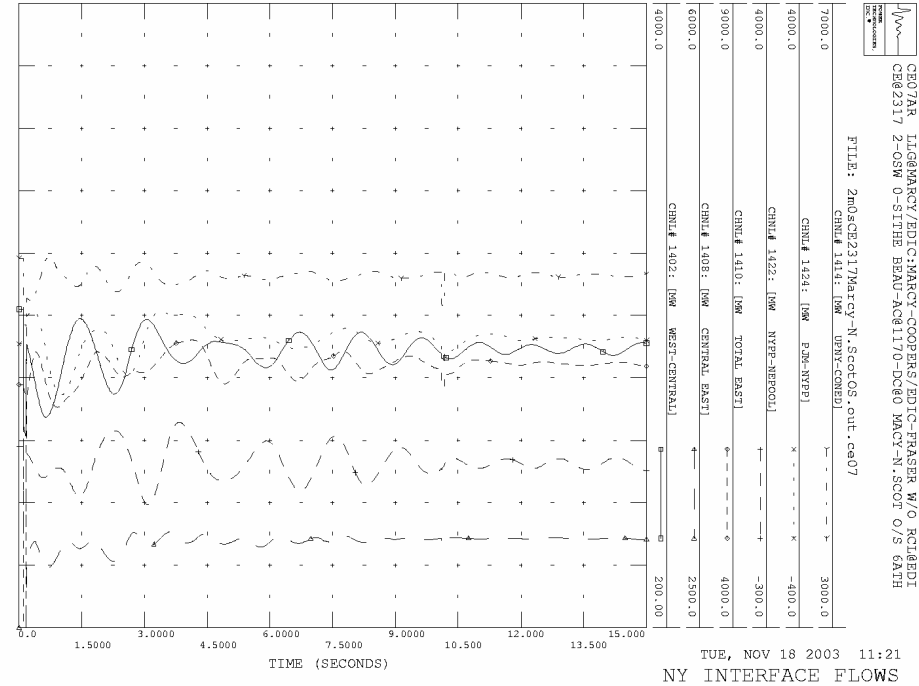
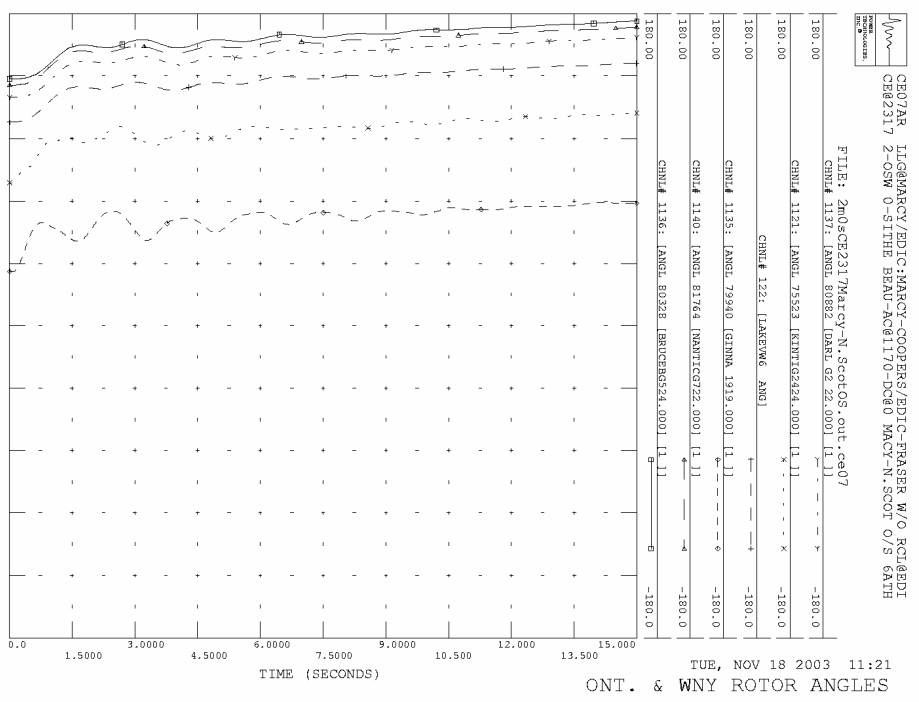
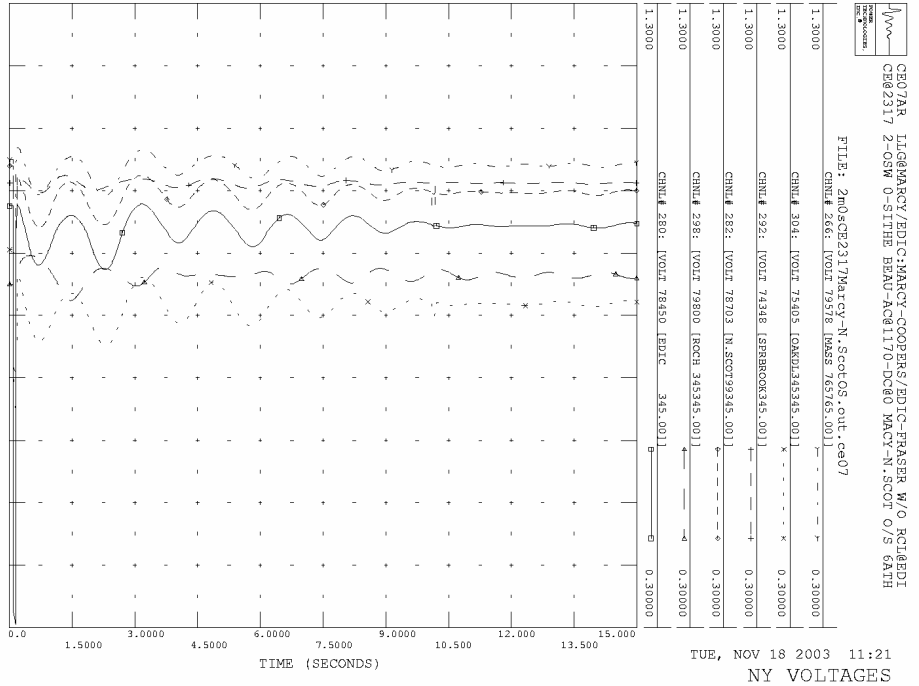
MOPAR5STAT2A.SAV B/O SUMMER MEN/DEM BASE CASE 200MVA STATCON  
 CE@2317 2-OSW 0-SITHE BEAU-AC@1170-DC@0 MACY-N.SCOT D/S 6ATH



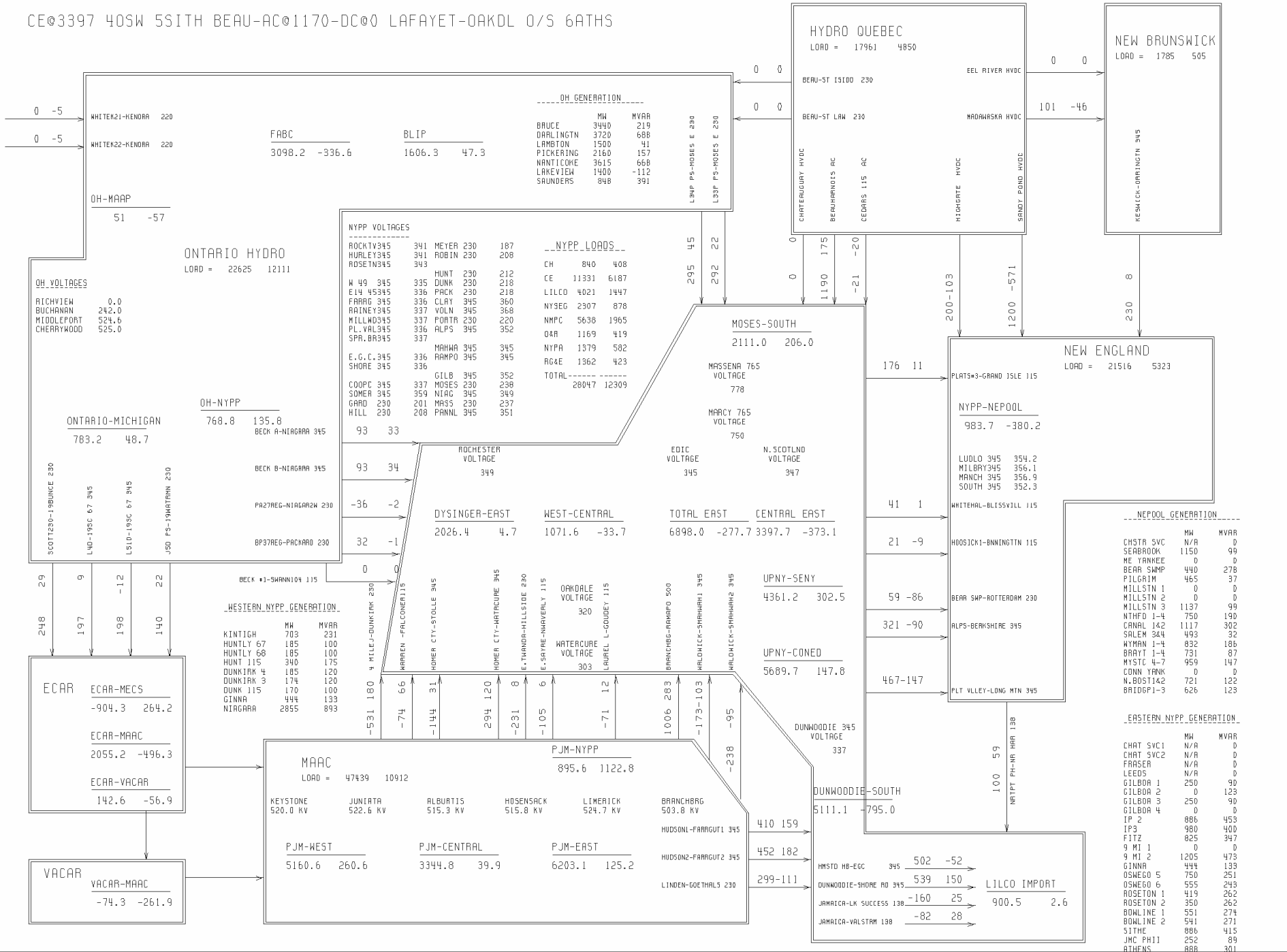


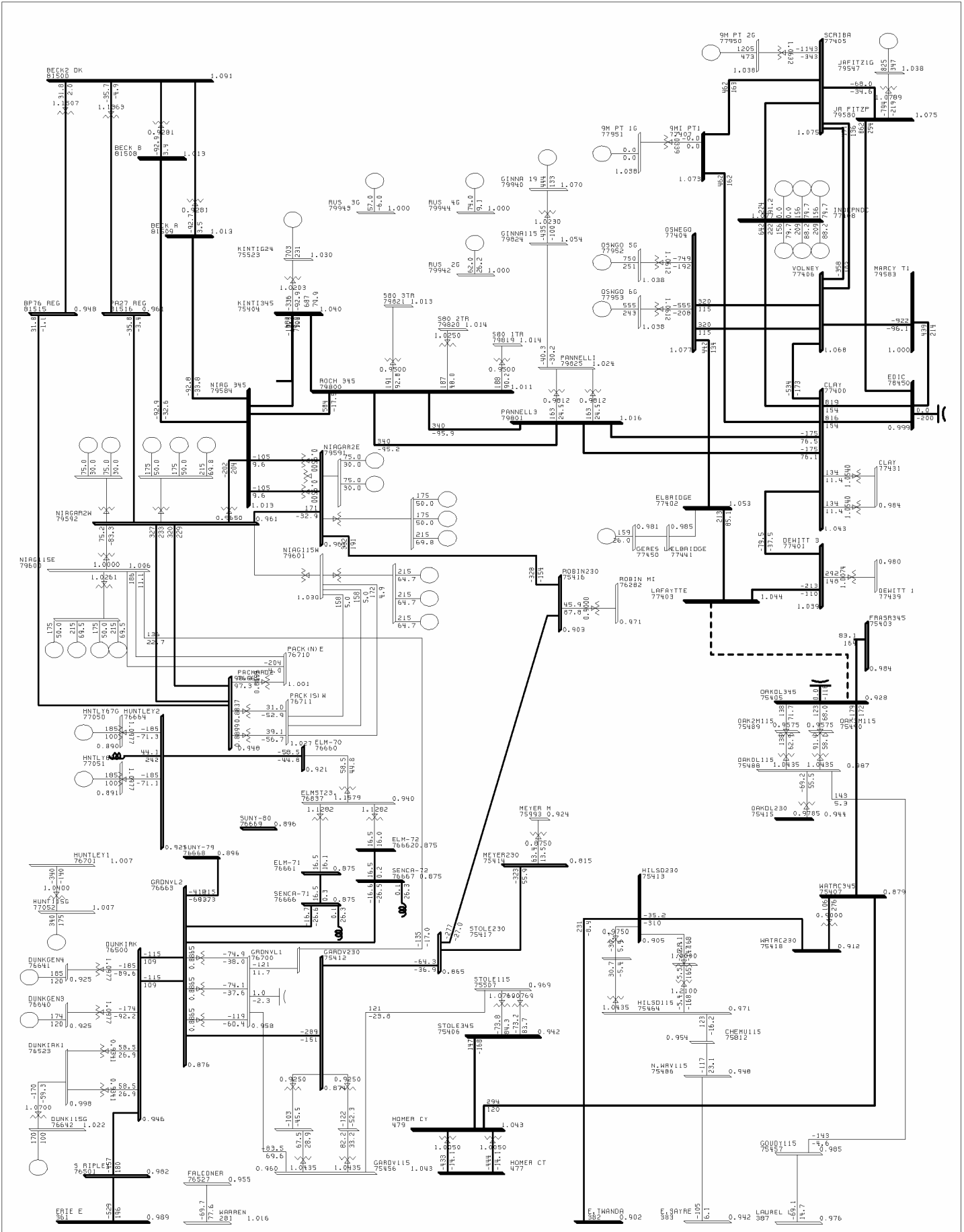


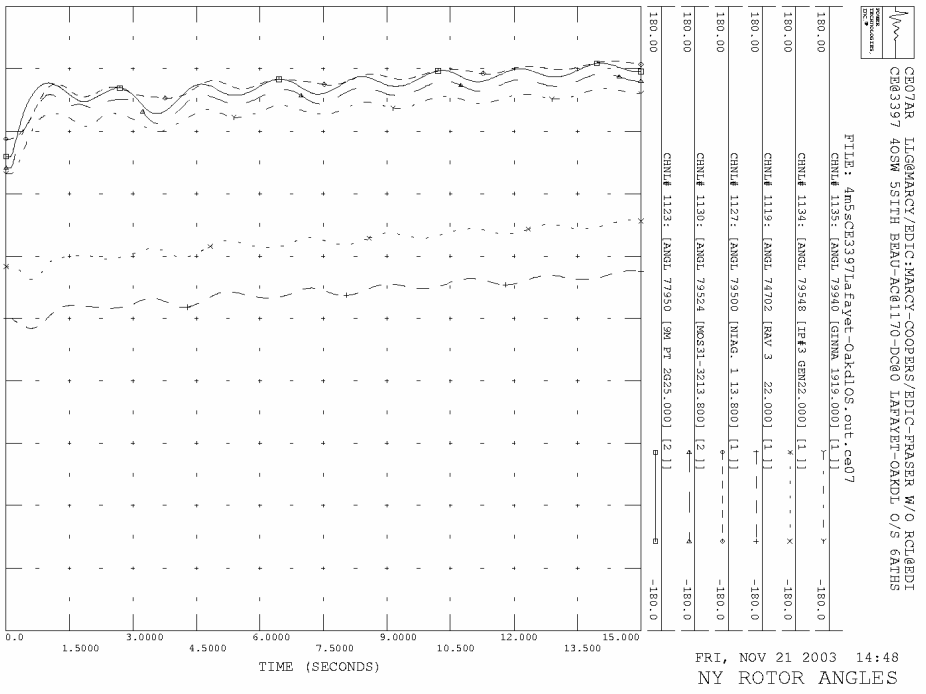
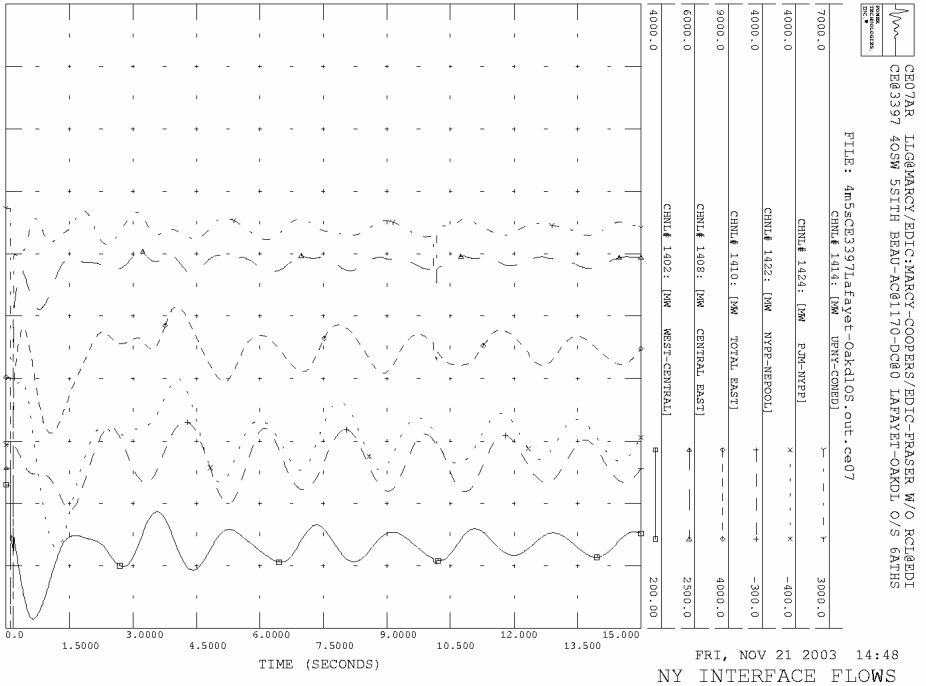
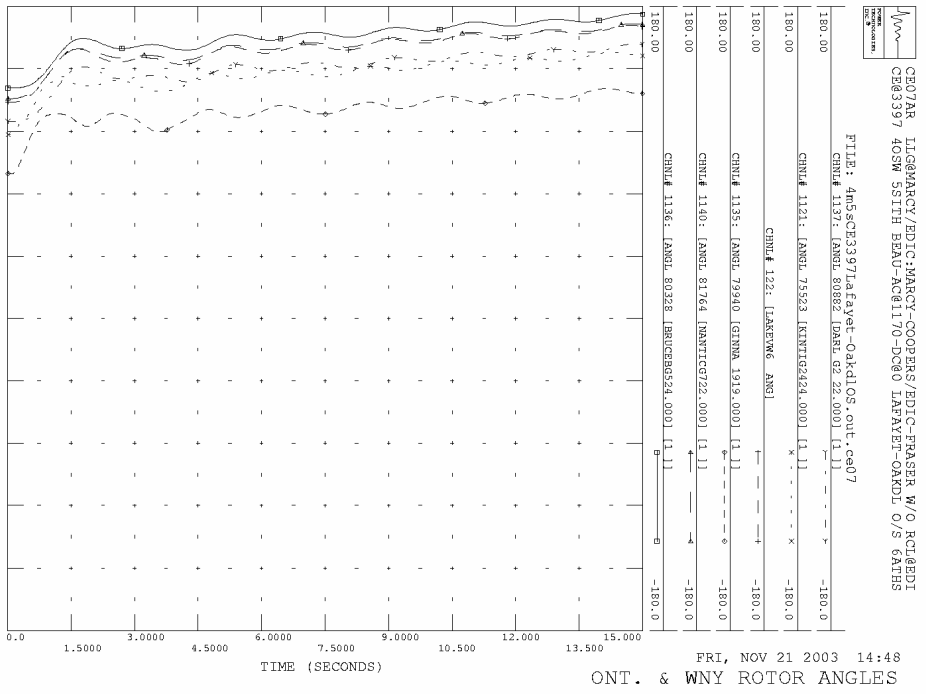
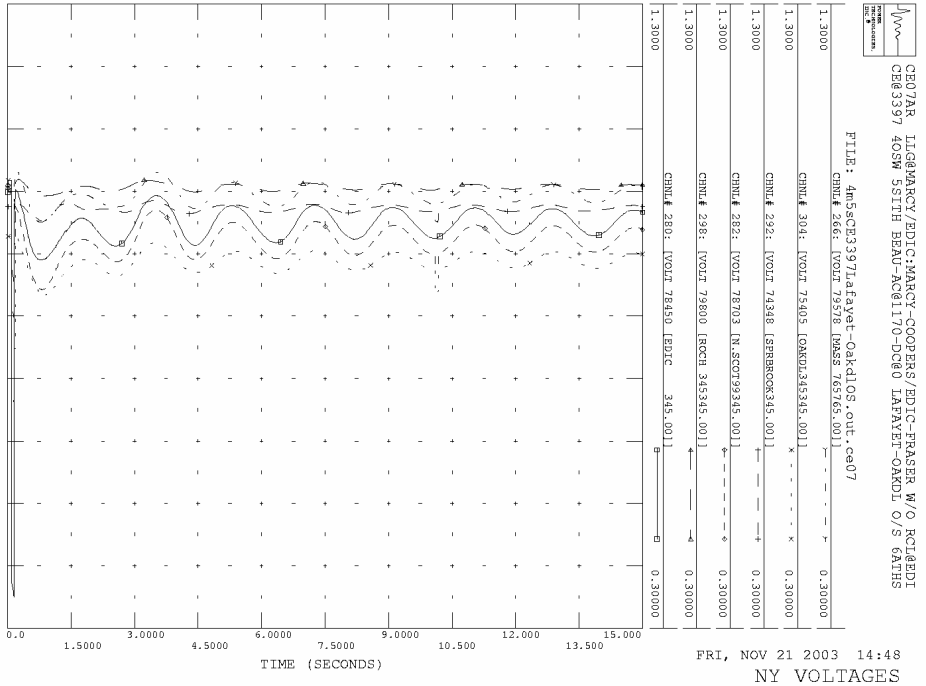


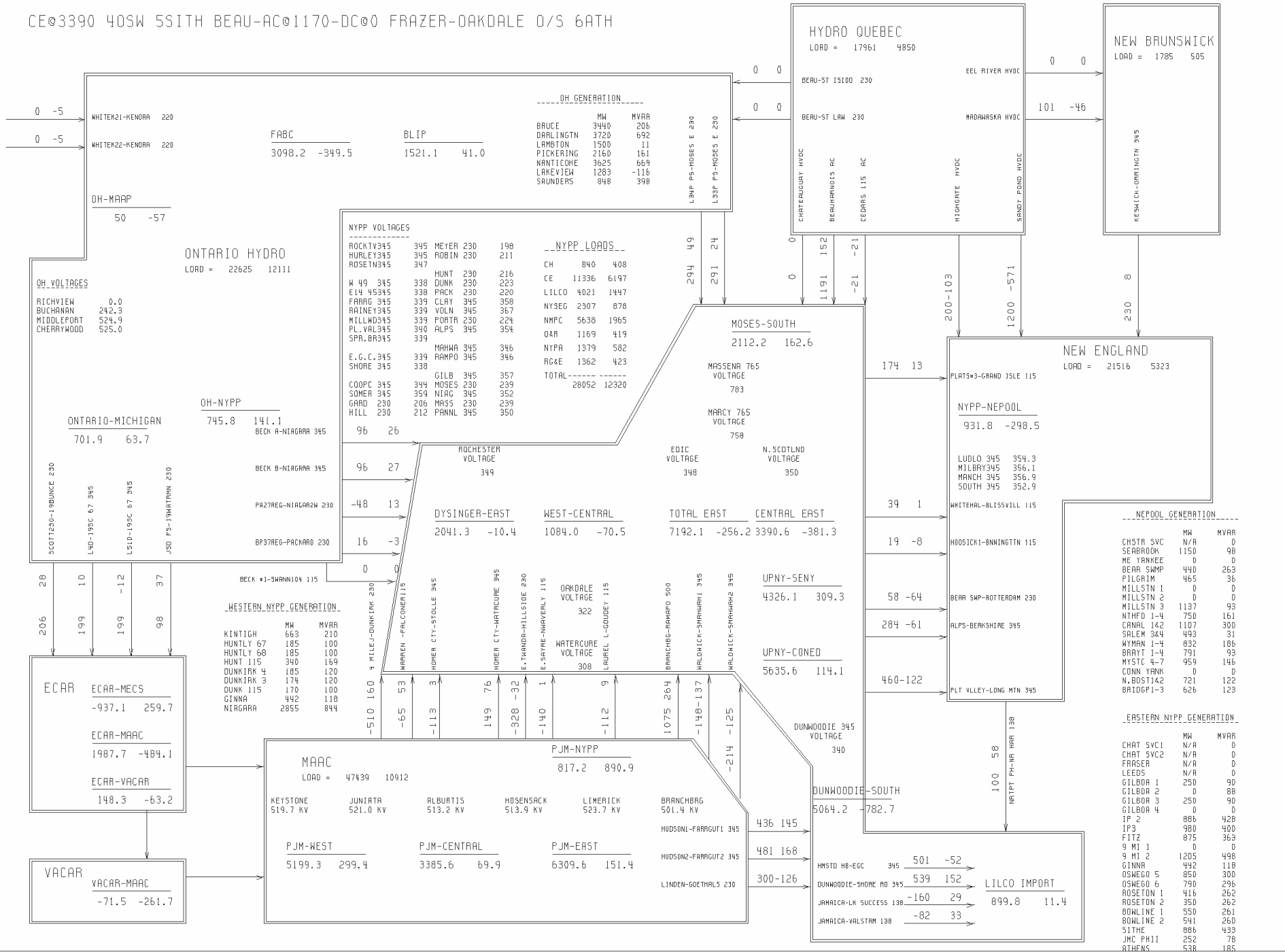


MOPAR5STAT2A.SAV B/O SUMMER MEN/DEM BASE CASE 200MVA STATCON  
 CE@3397 40SW 5SITH BEAU-AC@1170-DC@0 LAFAYET-DAKDL O/S 6ATHS

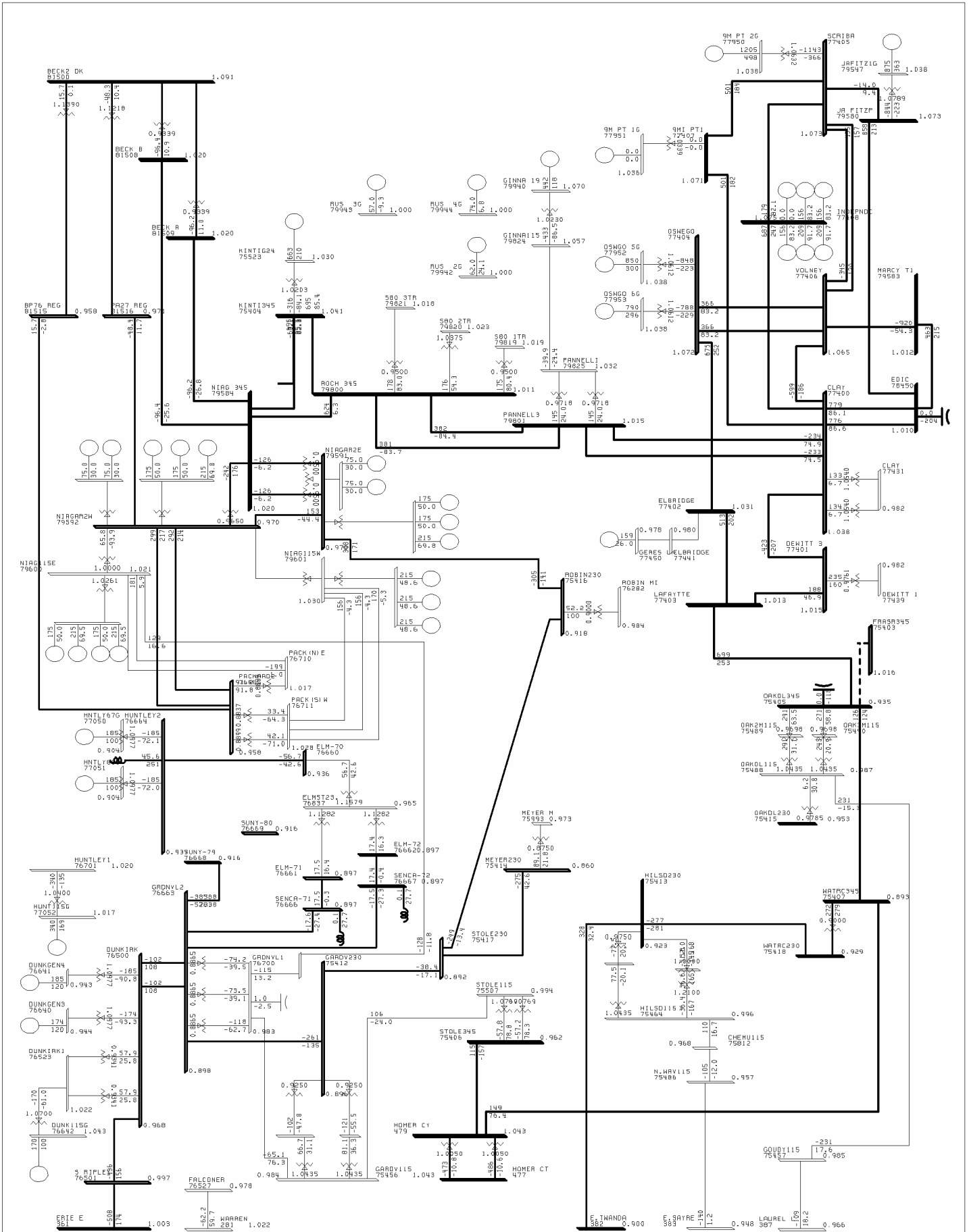


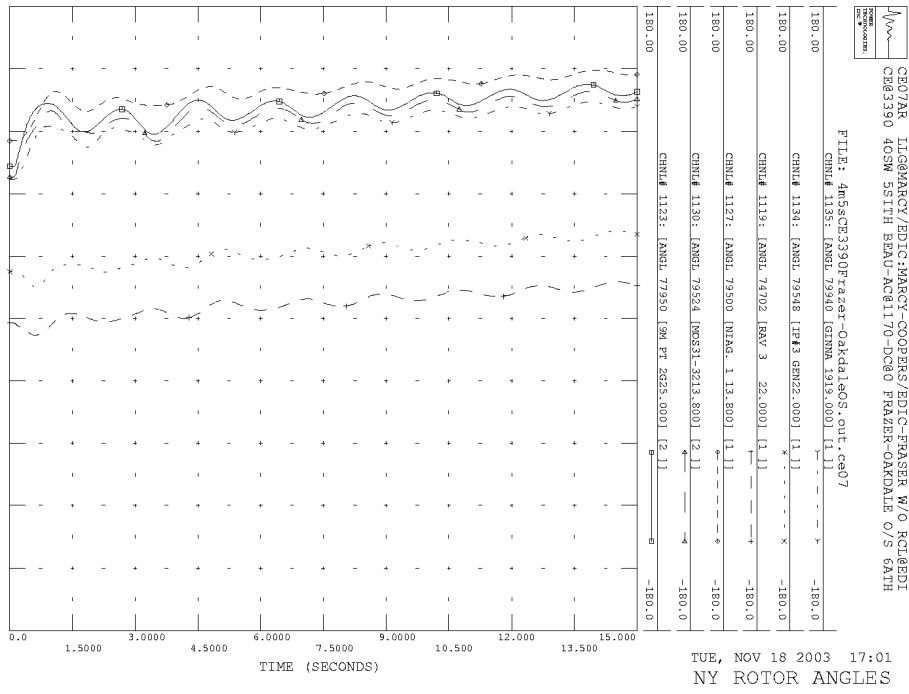
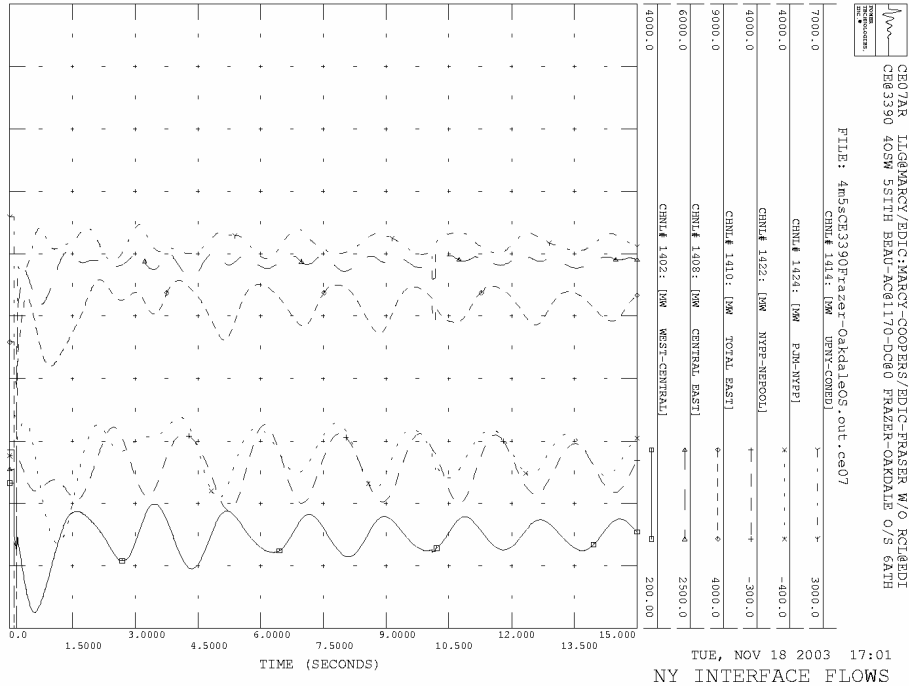
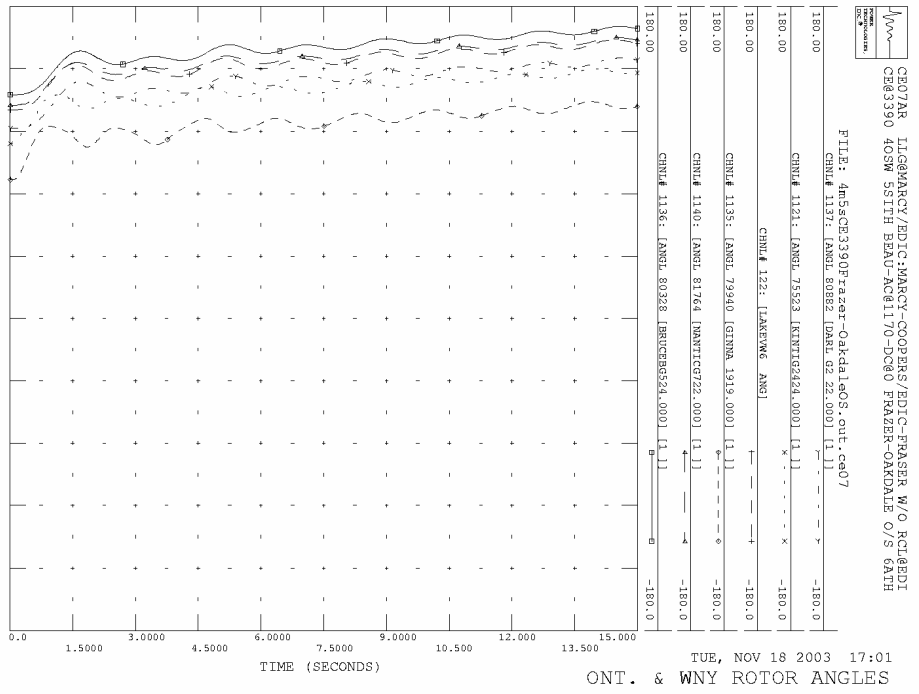
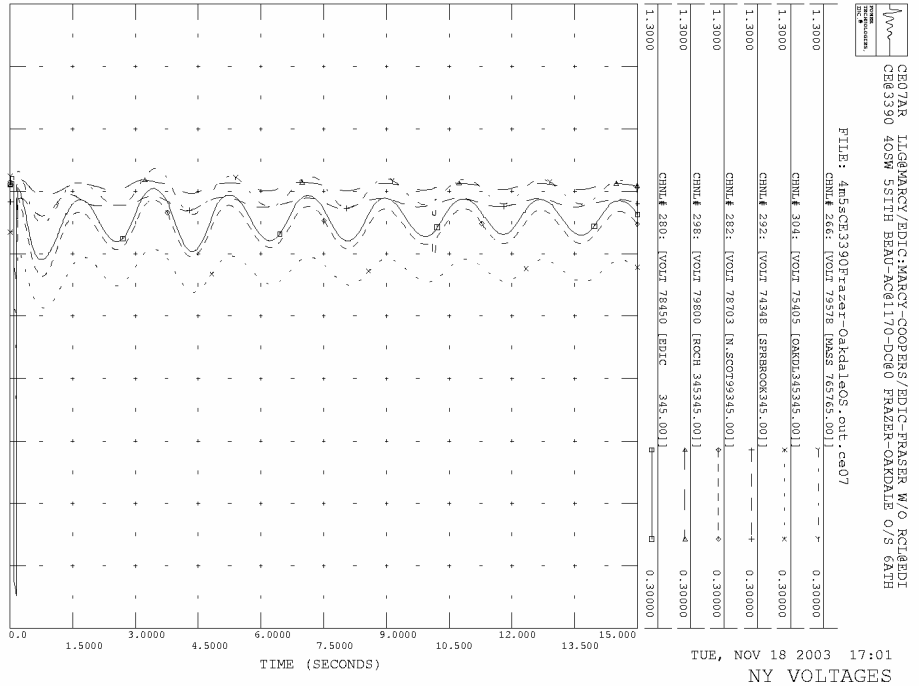










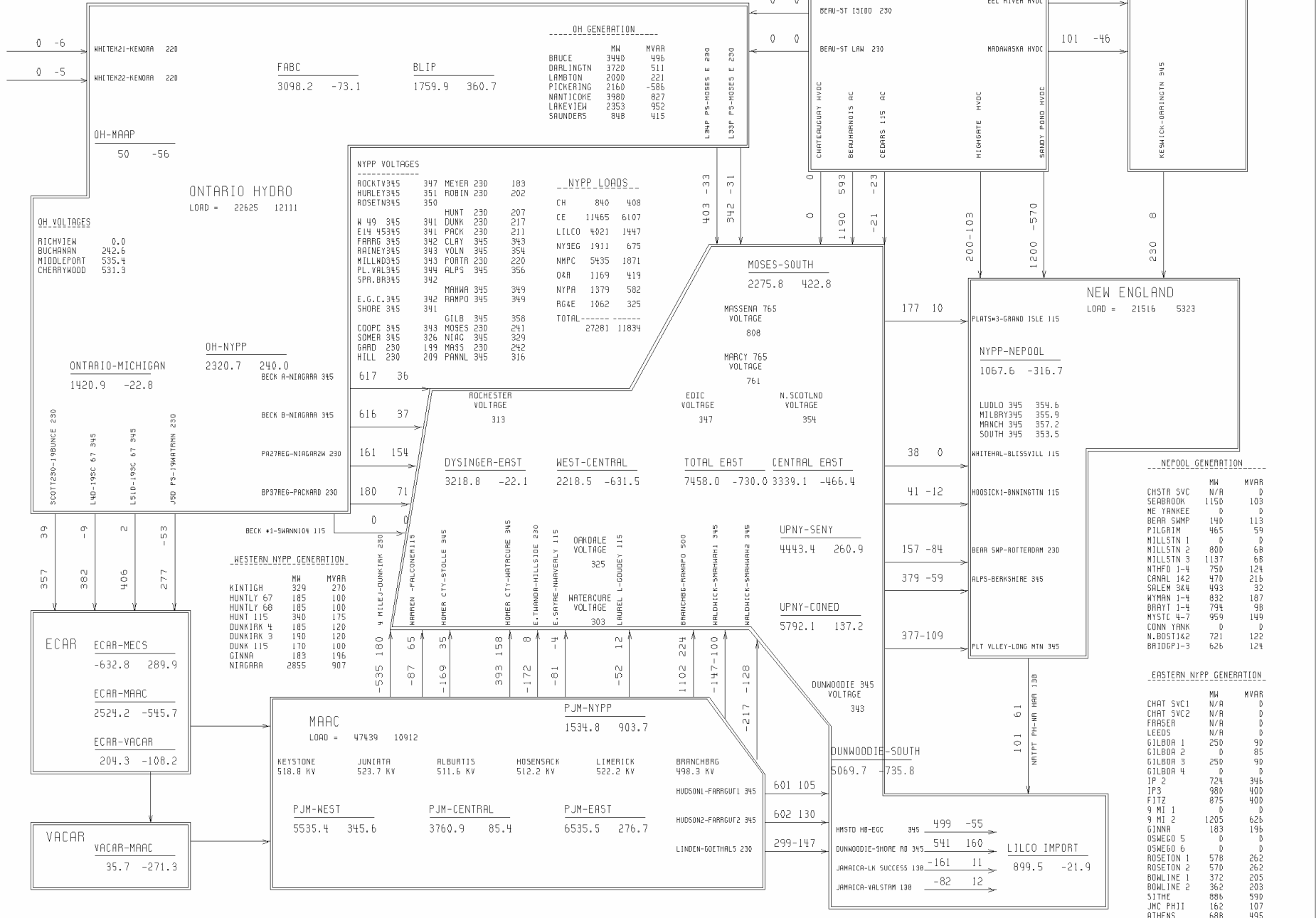


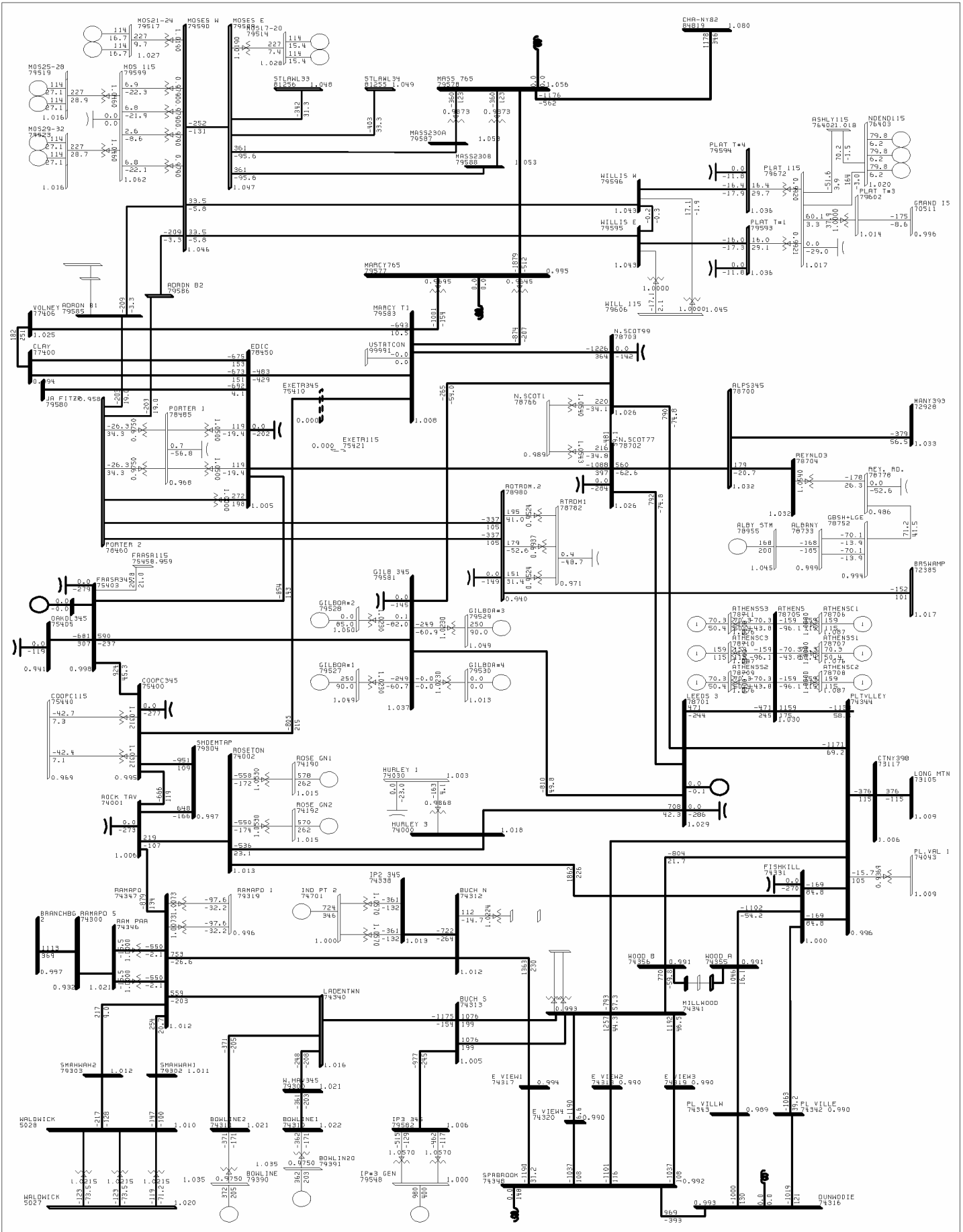


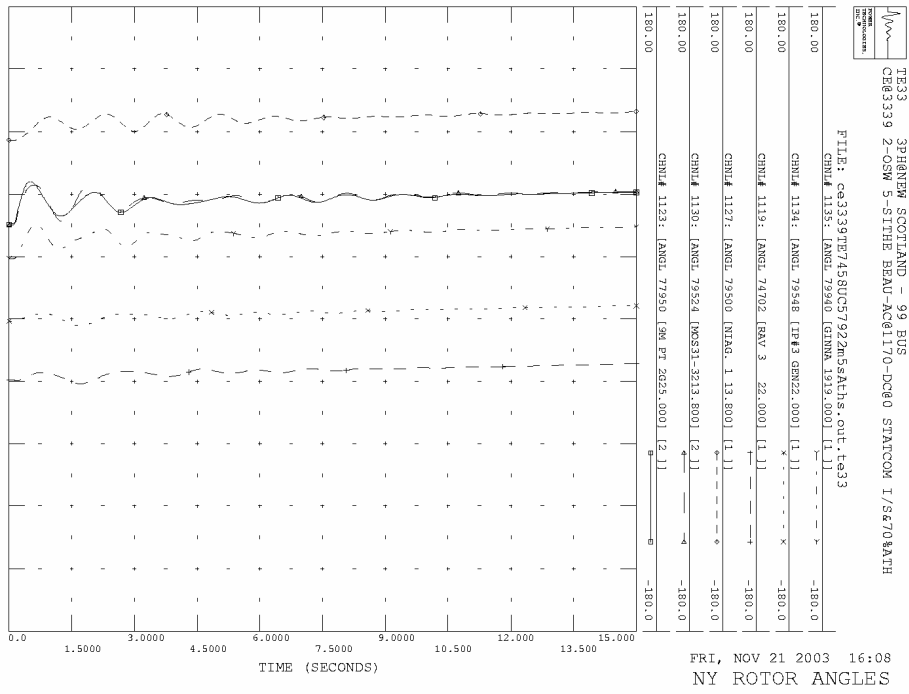
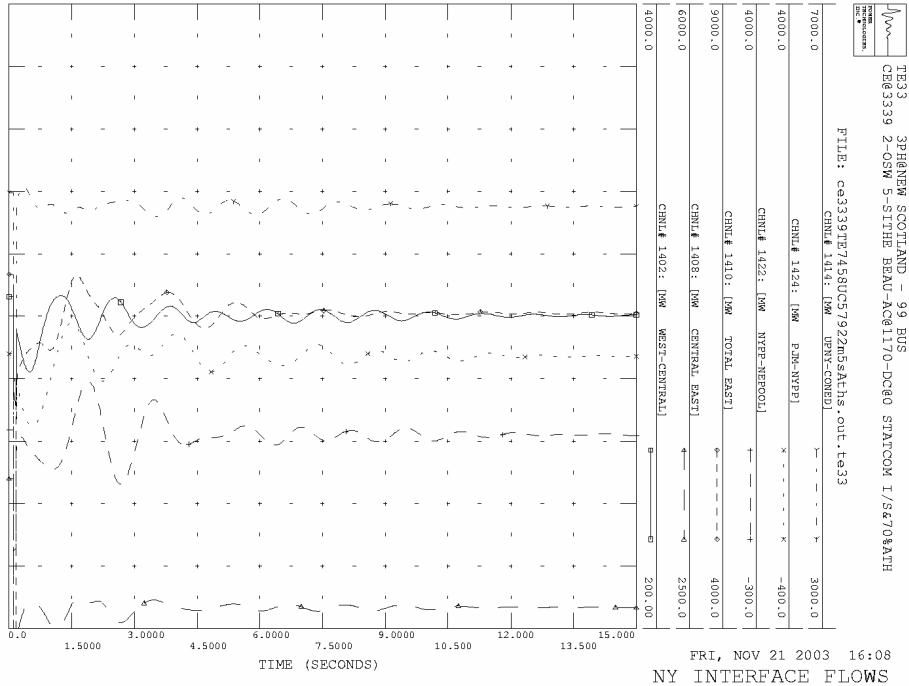
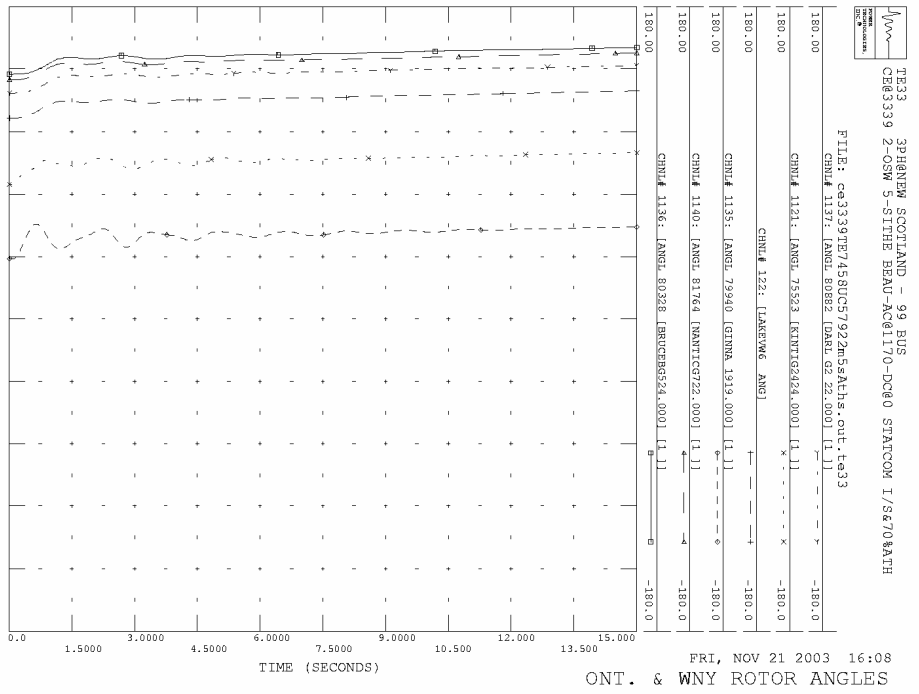
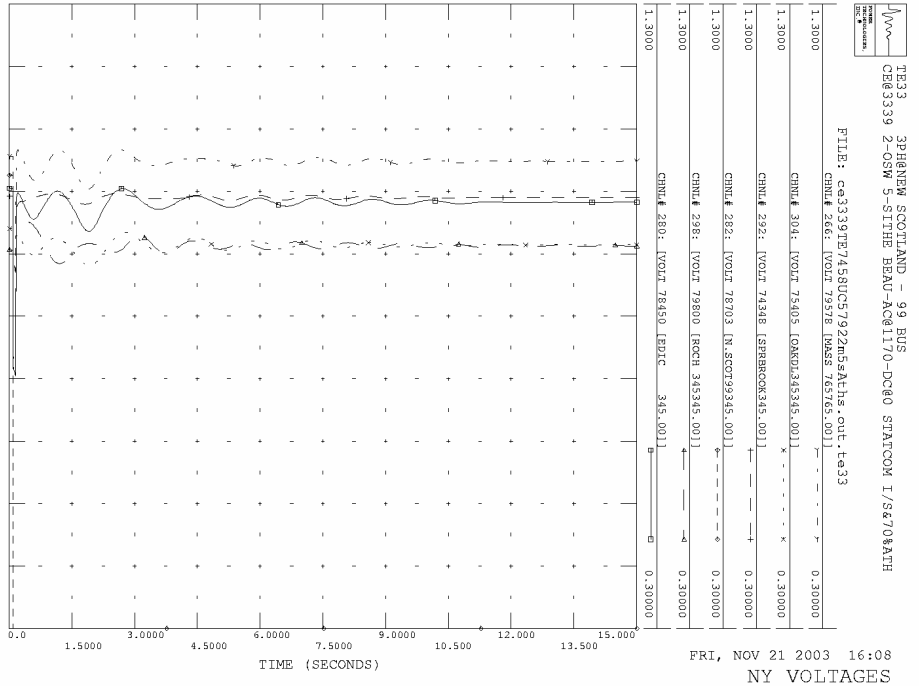
**APPENDIX B**  
(Dynamic Simulation Plots)

**TOTAL EAST ALL LINES I/S AND LINE OUTAGES**

Total East All Line I/S  
BranchBurg – Ramapo 500 kV O/S  
BranchBurg – Ramapo 500 kV with any SVC O/S







**STATION VOLTAGES**

CHA-NY82 765 = 826.2	MARCY765 765 = 774.5	MASS 765 765 = 812.2
RAMAPO 5 500 = 457.1	BOWLINE1 345 = 354.4	BOWLINE2 345 = 354.3
BUCH S 345 = 351.4	CLAY 345 = 350.5	COOPC345 345 = 349.3
SHOEMTAP 345 = 348.9	DUNWODIE 345 = 348.9	EDIC 345 = 354.0
FARRAGUT 345 = 348.1	FISHKILL 345 = 350.8	FRASR345 345 = 350.9
GILB 345 345 = 361.7	GOTHS N 345 = 360.4	GOWANUSN 345 = 359.2
HURLEY 3 345 = 355.9	KINTI345 345 = 332.4	LADENTWN 345 = 352.7
LEEDS 3 345 = 359.7	ATHENS 345 = 360.0	MARCY T1 345 = 355.0
MILLWOOD 345 = 348.4	N.SCOT77 345 = 358.4	N.SCOT99 345 = 358.3
NIAG 345 345 = 333.5	OAKDL345 345 = 331.9	PANNELL3 345 = 323.7
PLTVLLEY 345 = 348.7	RAINEY 345 = 348.7	RAMAPO 345 = 350.5
ROCK TAV 345 = 351.5	ROSETON 345 = 354.9	SHORE RD 345 = 347.7
SPRBROOK 345 = 348.6	ROCH 345 345 = 320.2	VOLNEY 345 = 360.8

**GENERATOR/SVC QUANTITIES**

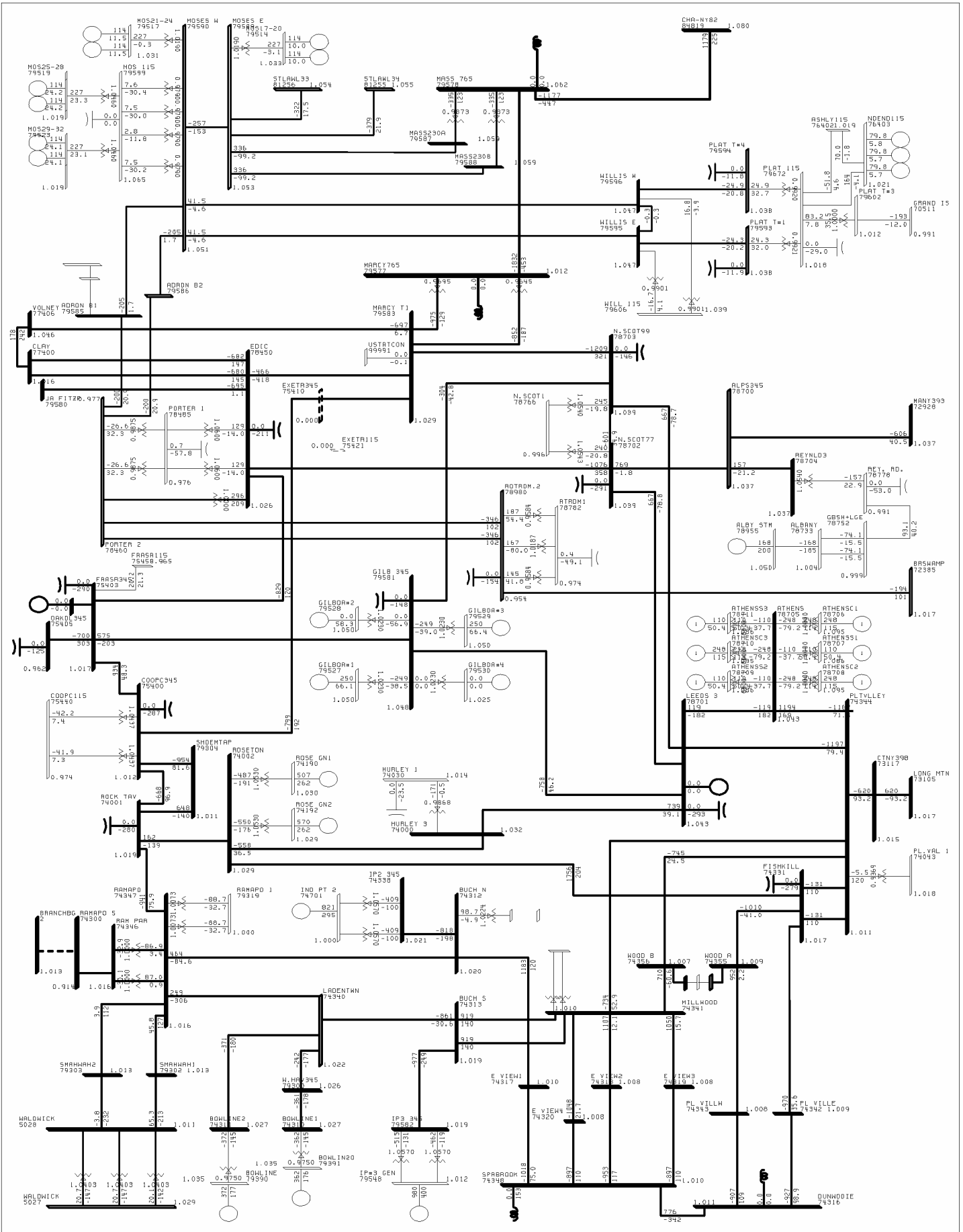
GENERATION	MW	MVAR	GENERATION	MW	MVAR
GILBOA#117.0	250.0	66.1	GILBOA#217.0	0.0	58.3
GILBOA#317.0	250.0	66.4	GILBOA#417.0	0.0	0.0
9M PT 1G23.0	0.0	0.0	OSWGO 5G22.0	0.0	0.0
9M PT 2G25.0	1205.0	626.0	OSWGO 6G22.0	0.0	0.0
JAFITZ1G24.0	875.0	400.0	SITH-G1 18.0	0.0	0.0
SITH-G2 18.0	156.0	105.6	SITH-G3 18.0	156.0	105.6
SITH-G4 18.0	156.0	105.6	SITH-S5 18.0	209.0	104.7
SITH-S6 18.0	209.3	104.7	ROSE GN124.0	507.0	262.0
BOWLINE 20.0	372.2	177.1	ROSE GN224.0	570.0	262.0
BOWLIN2020.0	362.2	175.8	IND PT 222.0	820.6	295.5
RAV 3 22.0	717.2	788.3	IP#3 GEN22.0	980.0	400.0
POLETTI 26.0	783.6	400.0	KINTIG2424.0	314.0	270.0
GINNA 1919.0	180.4	149.4	NIAG. 8 13.8	175.0	50.0
NIAG. 1113.8	175.0	50.0	MOS17-1813.8	114.0	10.0
DUNKGEN413.8	185.0	120.0	HNTLY67G13.8	185.0	100.0
HNTLY68G13.8	185.0	100.0	FRA S345 345	0.0	0.0
LEEDS 3 345	0.0	0.0	CHAT GC1 120	0.0	0.0

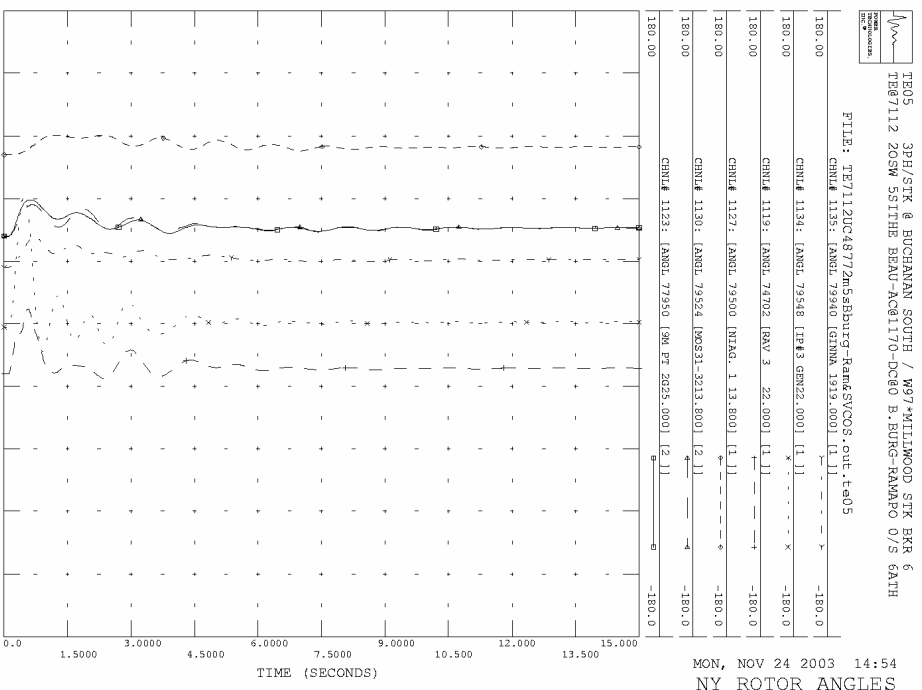
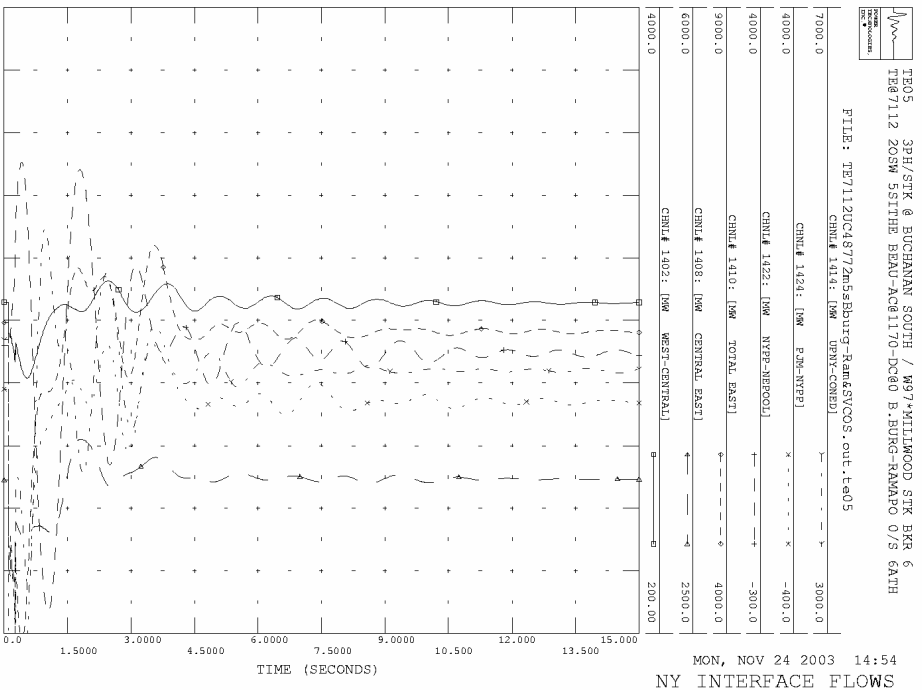
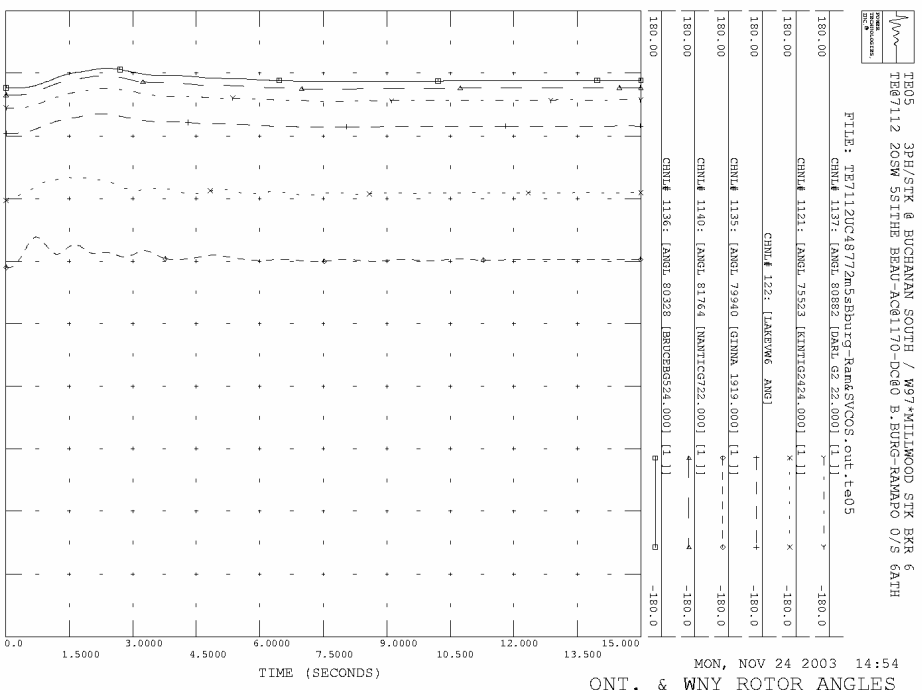
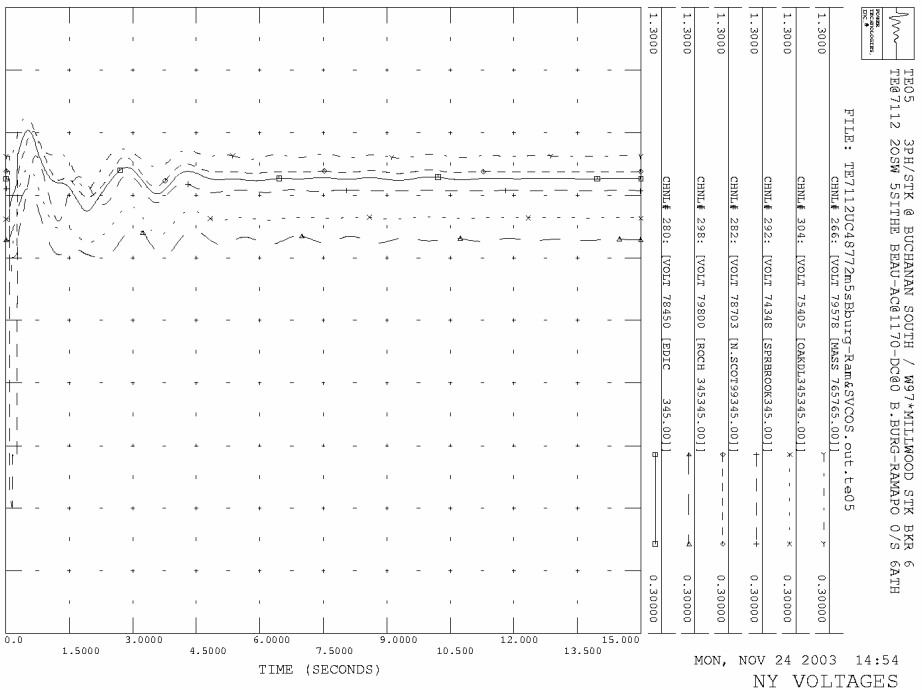
**INTERFACE FLOW REPORT**

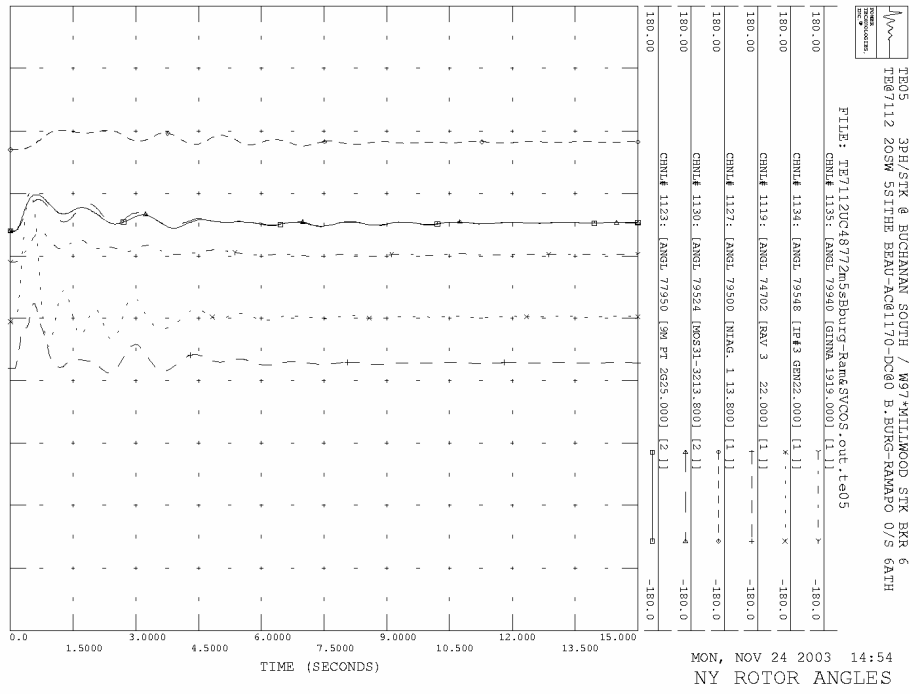
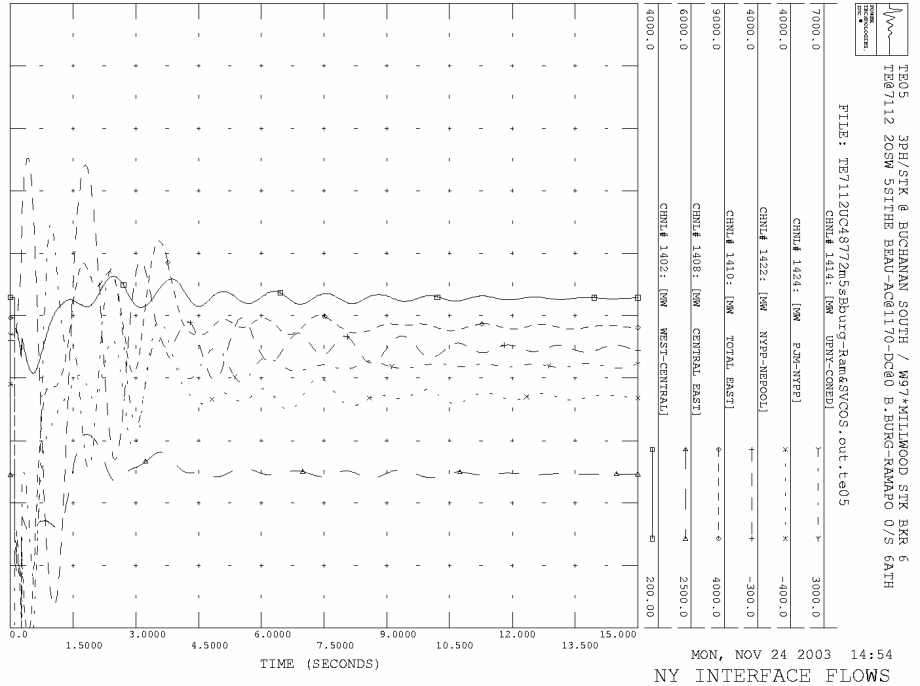
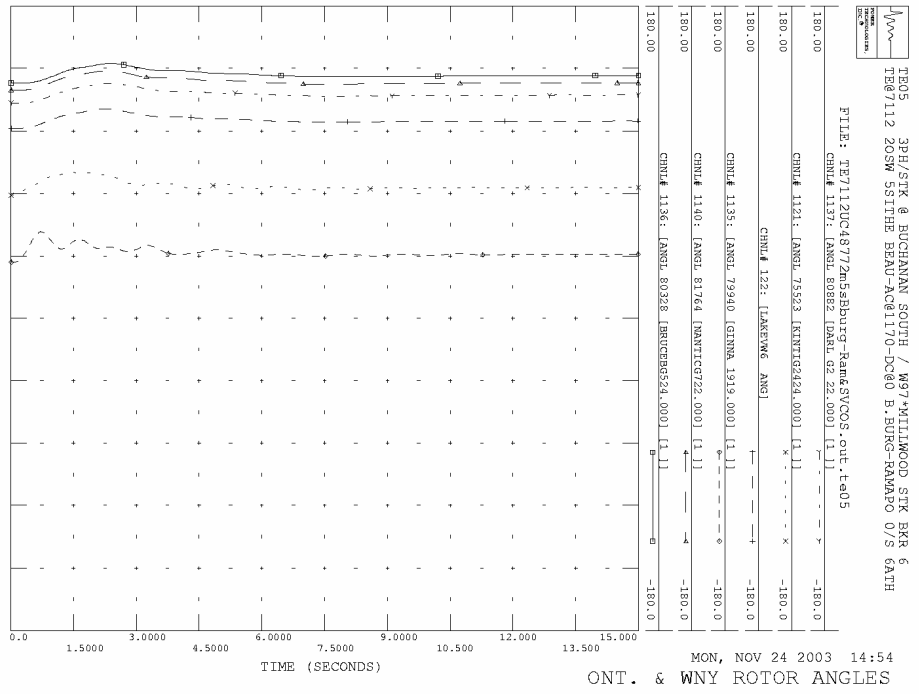
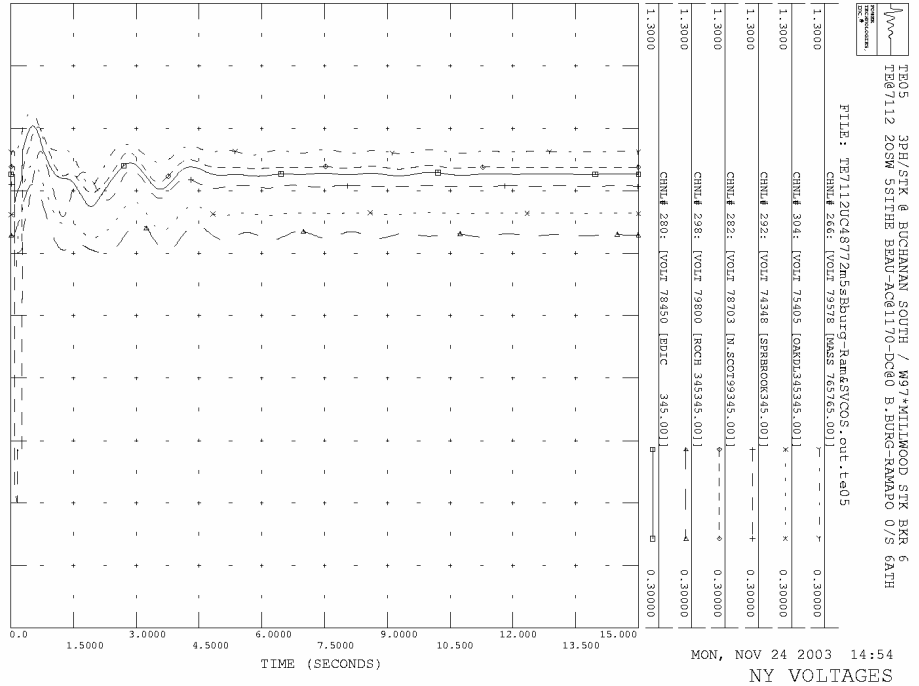
DESCRIPTION	MW	MVAR	DESCRIPTION	MW	MVAR
DYSINGER-EAST	3199.6	-59.7	WEST-CENTRAL	2108.3	-639.4
VOLNEY EAST	3690.8	-641.4	MOSES-SOUTH	2213.5	291.6
CENTRAL EAST	3357.7	-418.5	TOTAL EAST	7111.9	-1182.8
UPNY-SENY	3169.2	-144.6	UPNY-CONED	4877.0	-167.0
UPNY-CONED, (C)	6757.2	-275.6	DUNWOODIE-SOUTH	4251.0	-667.6
VOLT TE#3	5206.4	-779.3	NY-NE	1680.6	-218.2
PJM-NYISO	990.3	151.6	ONTARIO-NY	2184.9	153.0
DYSINGER EAST, (C)	5611.3	-313.1	WEST-CENTRAL, (C)	4520.0	-892.7
VOLNEY EAST, (C)	5948.5	-1063.1	UPNY-SENY, (C)	4784.3	-581.5
A, B, C, J, K PAR IMBAL	1883.2	-272.1	NIAGARA TIE	-1483.2	-187.5
MILLWOOD SOUTH	8186.5	-72.1	LIPA IMPORT	897.2	-27.5

**TRANSMISSION LINE FLOW REPORT**

LINE	MW	MVAR
** LINE ERROR **	0.0	0.0
CHA-NY82 765 -MASS 765 765	1179.2	224.7
MASS 765 765 -CHA-NY82 765	-1176.8	-447.3
NORHR138 138 -NRTHPT P 138	58.4	-54.5
HOMER CY 345 -WATRC345 345	415.4	154.5
BRANCHBG 500 -RAMAPO 5 500 O/S	0.0	0.0
PLAT T#3 115 -GRAND IS 115	196.0	16.5







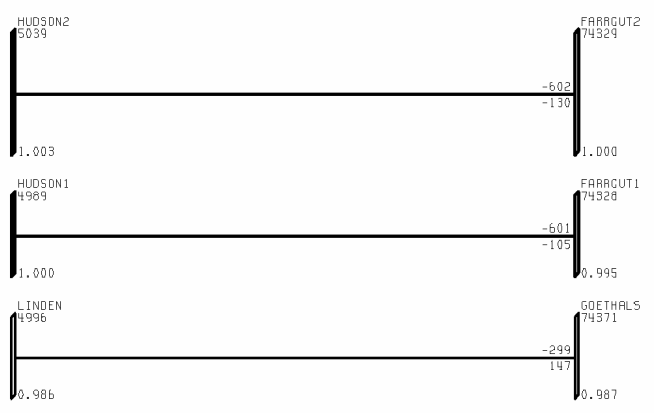
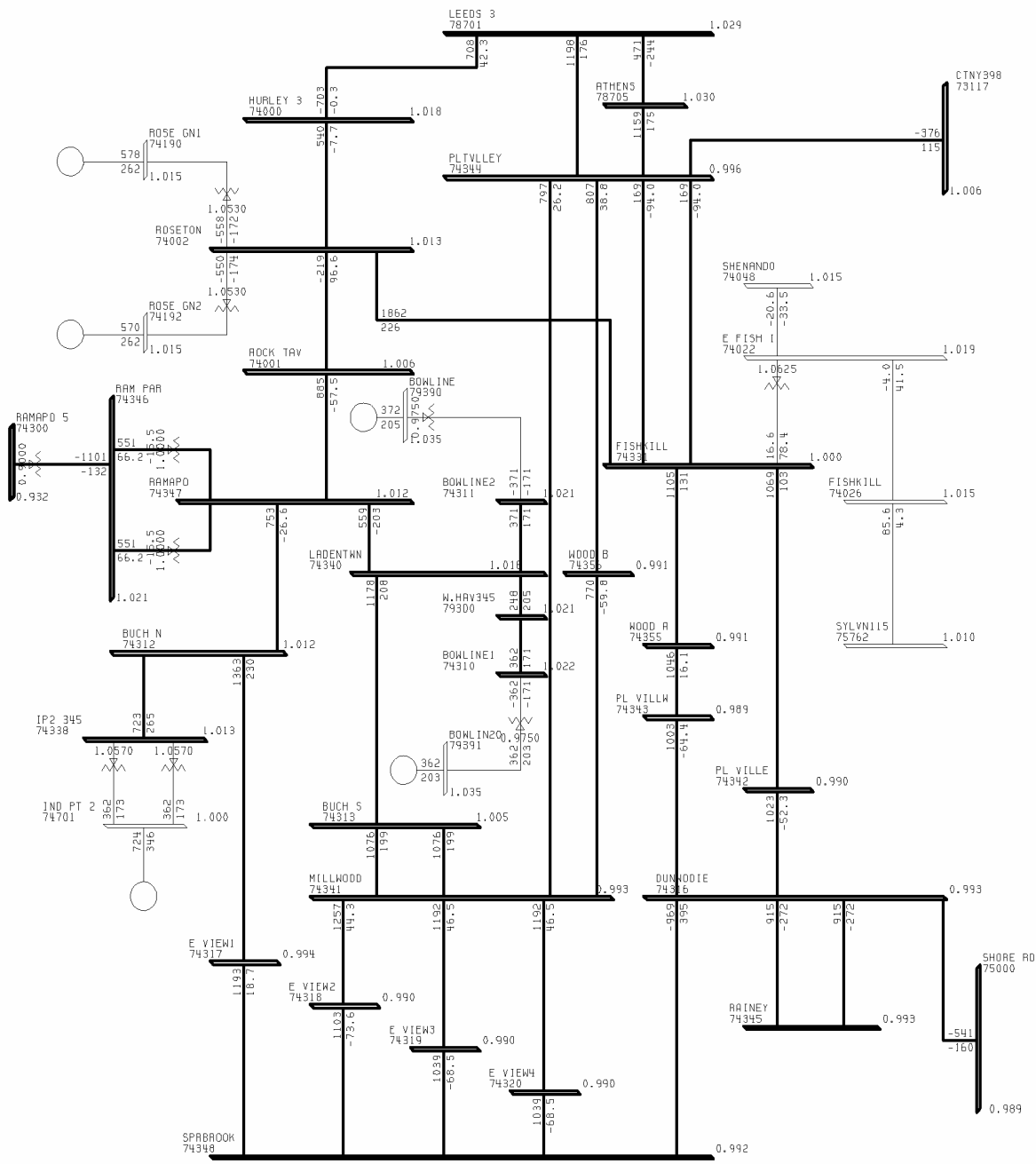


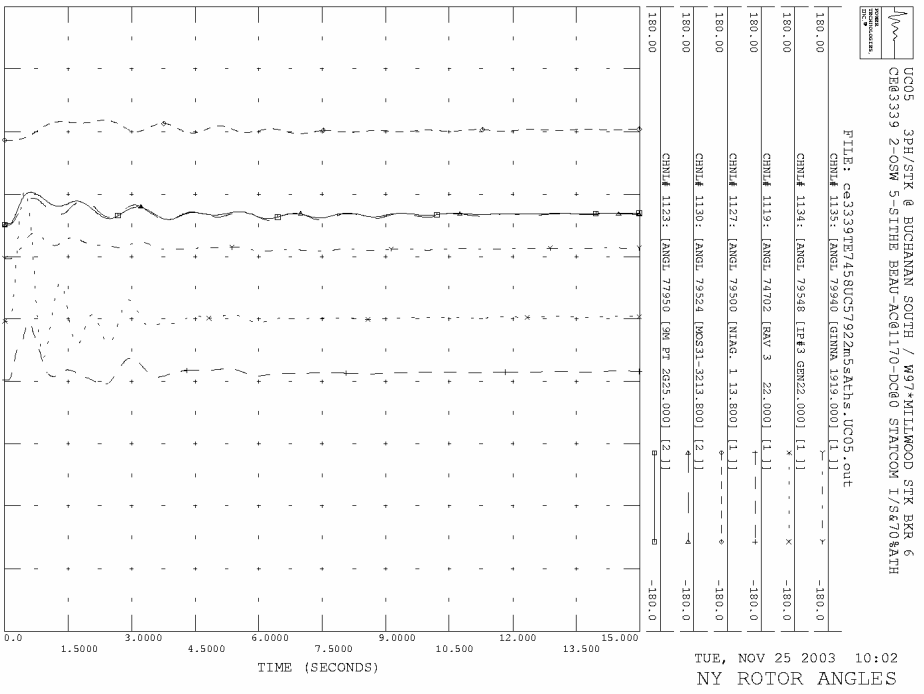
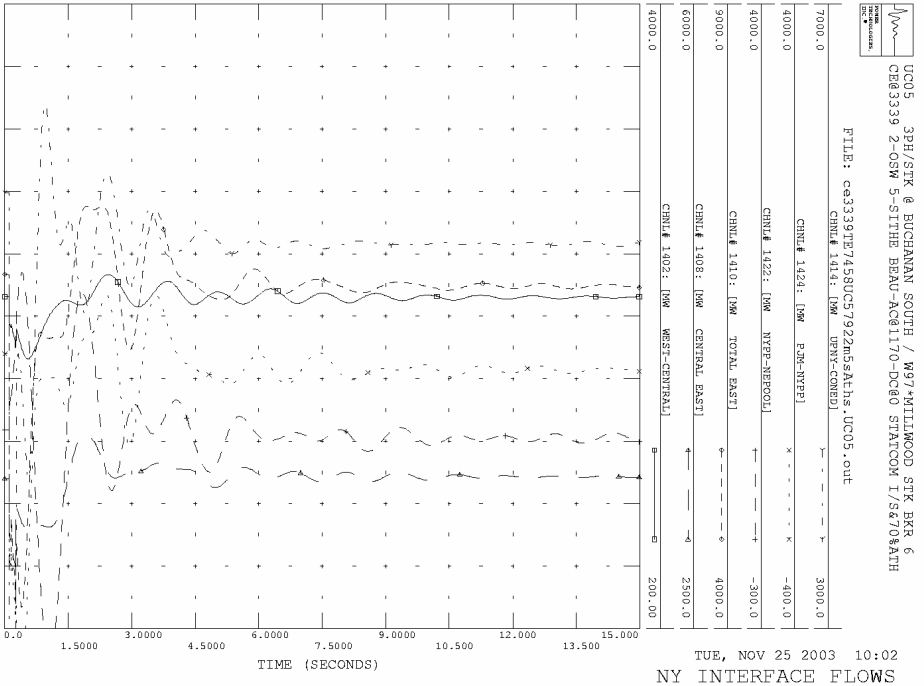
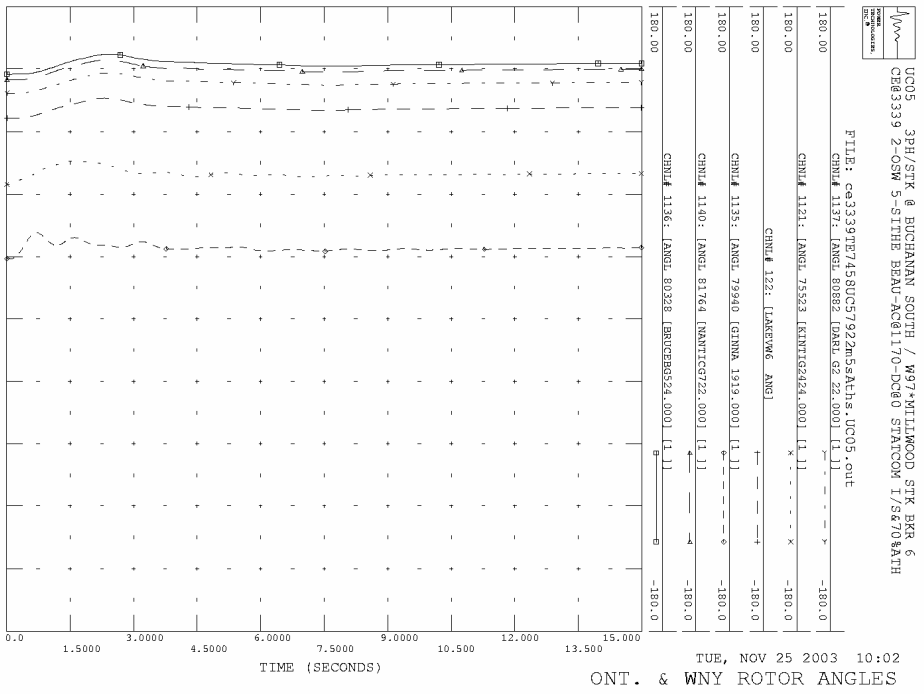
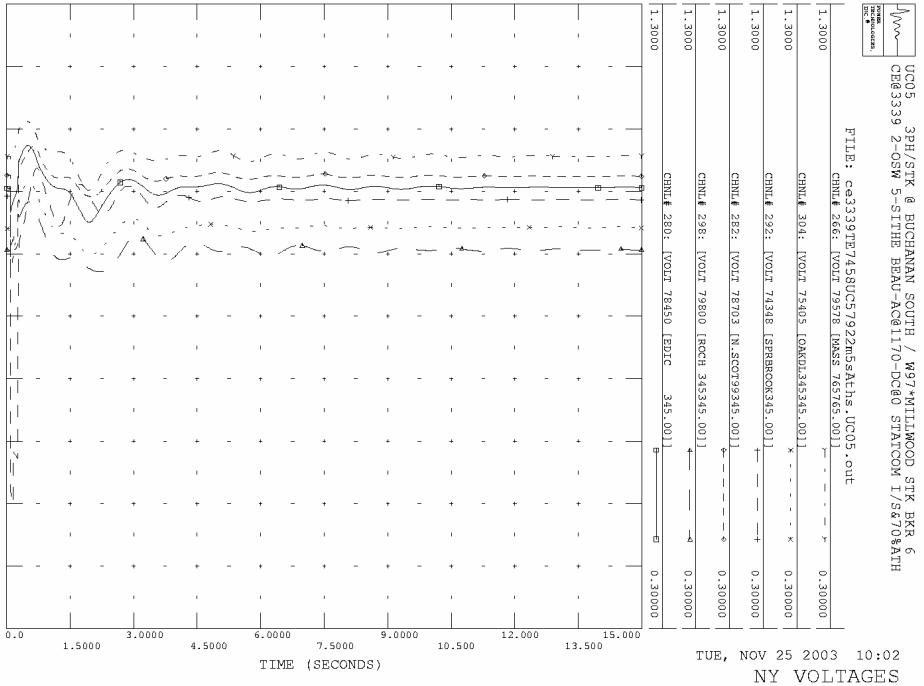
**APPENDIX C**  
(Dynamic Simulation Plots)

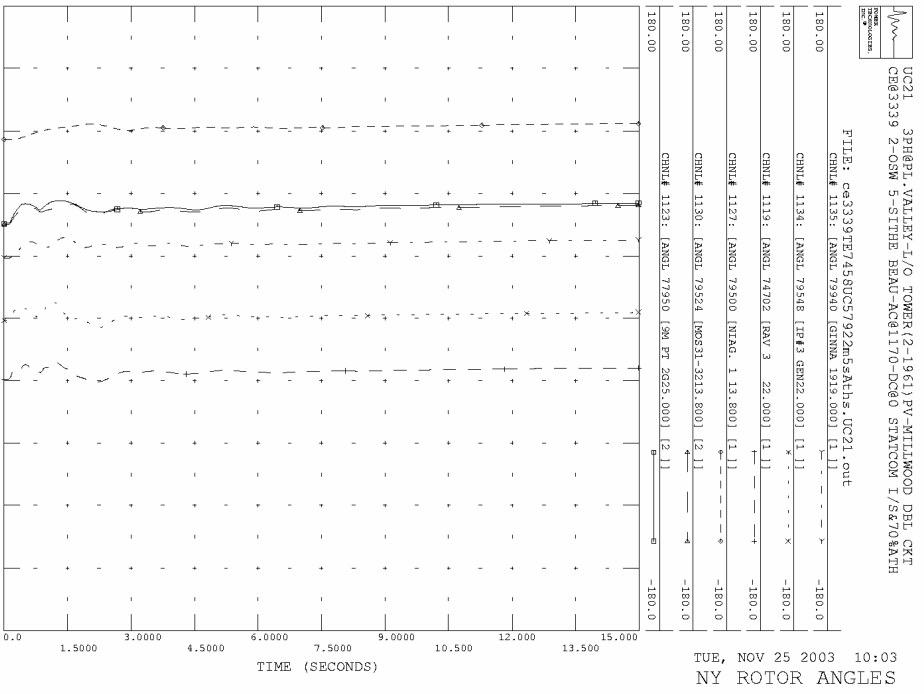
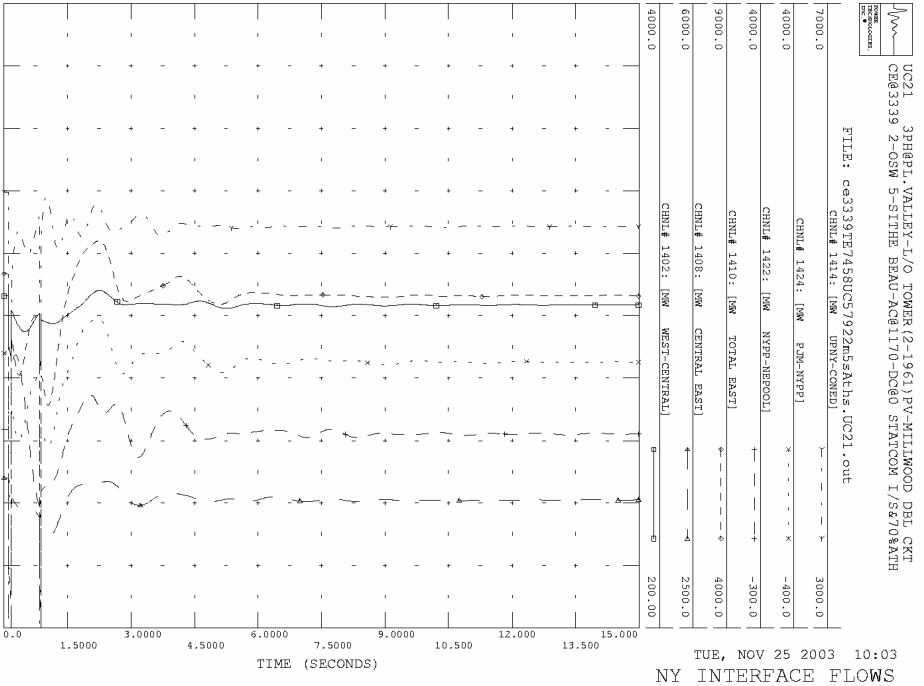
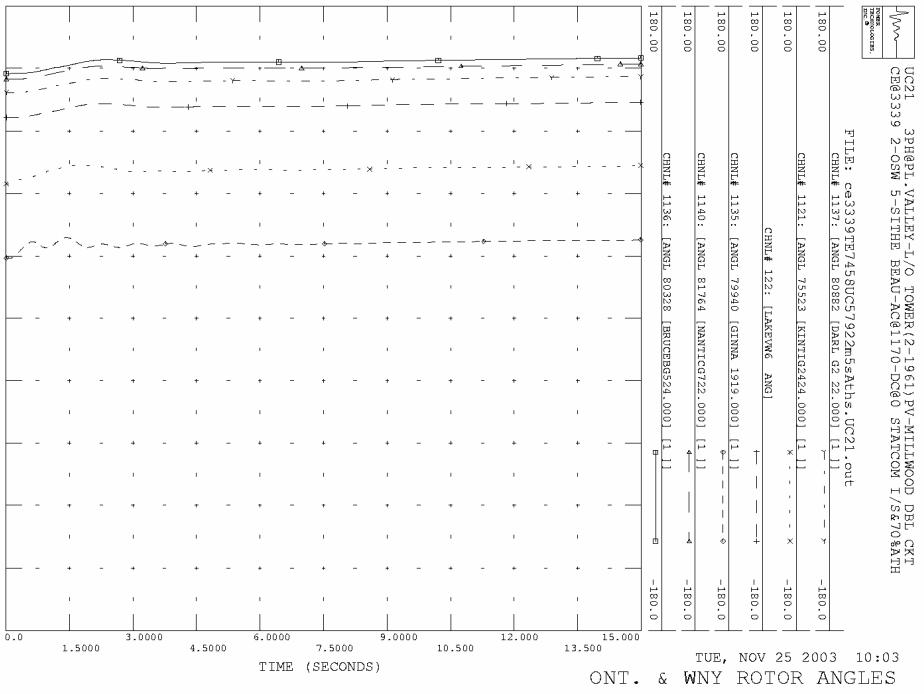
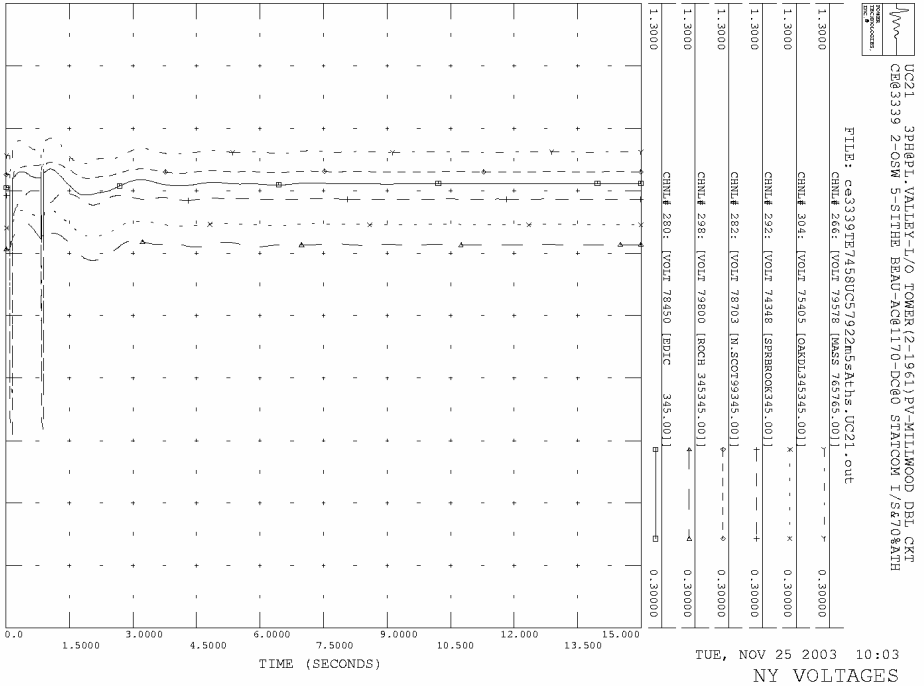
**UPNY – ConEd ALL LINES I/S AND LINE OUTAGES**

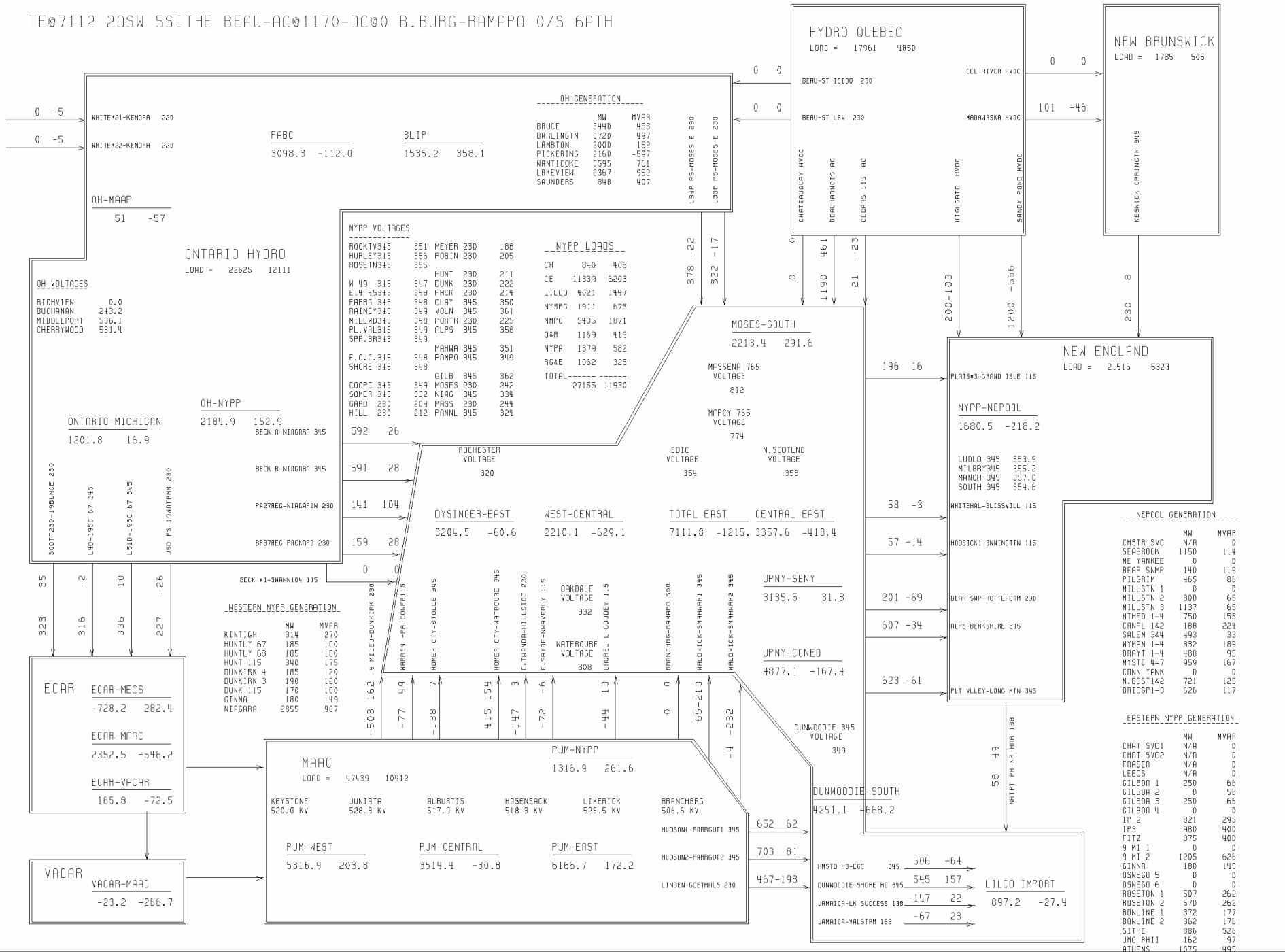
UPNY – ConEd All Lines I/S  
BranchBurg – Ramapo (5018) O/S  
Ladentown – Buchanan S. (Y88) O/S  
Ramapo – Buchanan N. (Y94) O/S  
Roseton – E. Fishkill (RF-305) O/S

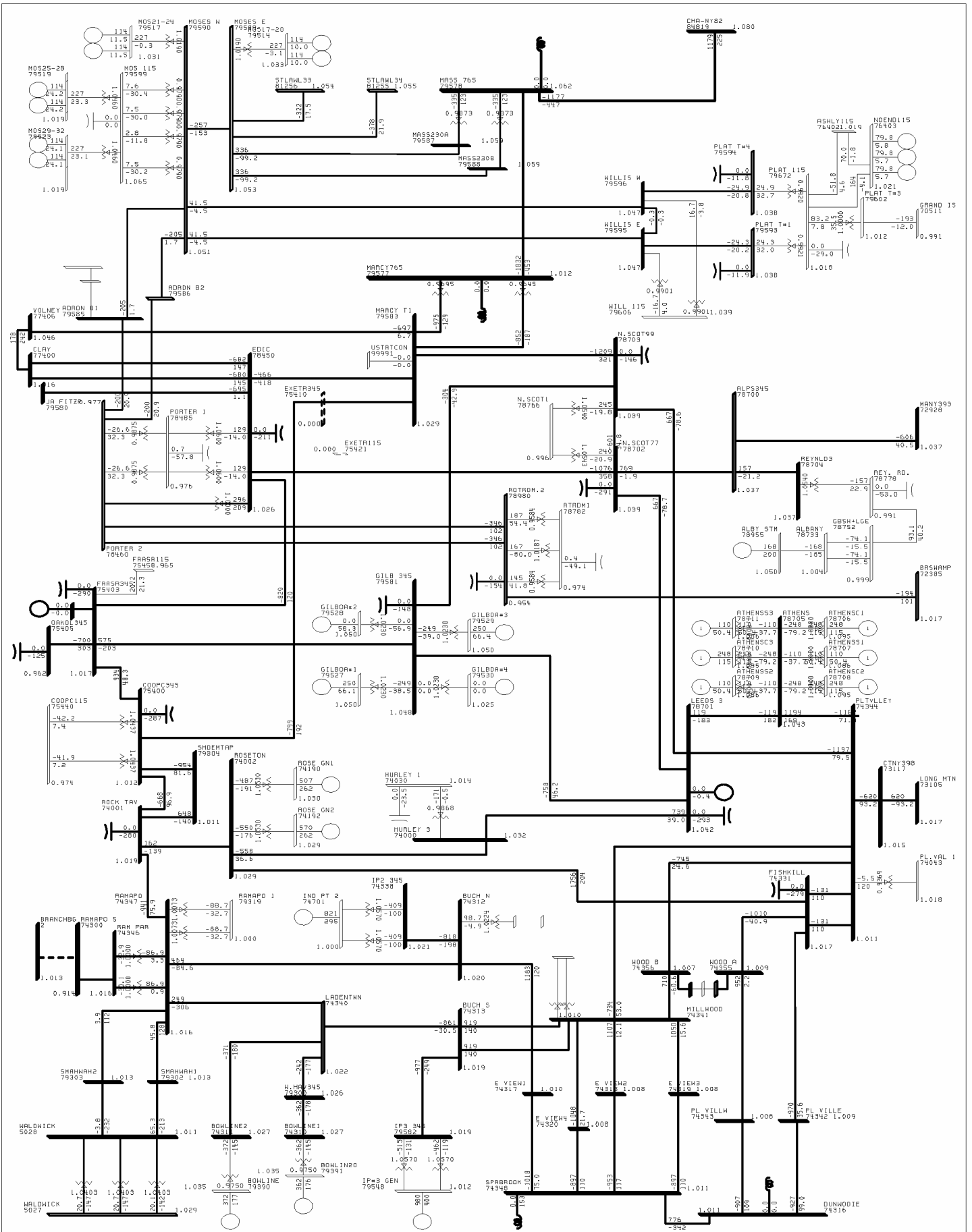






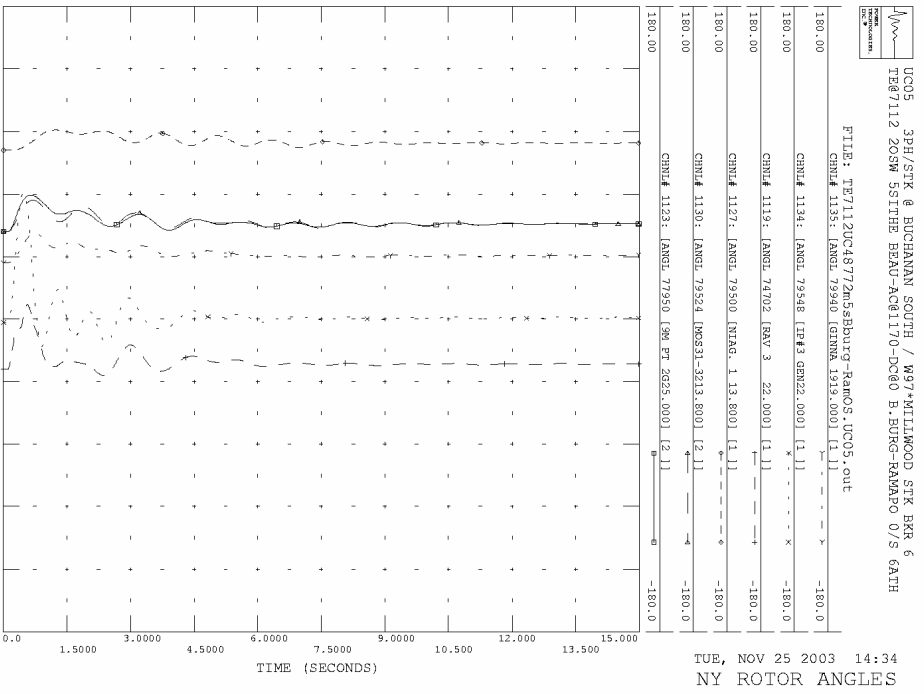
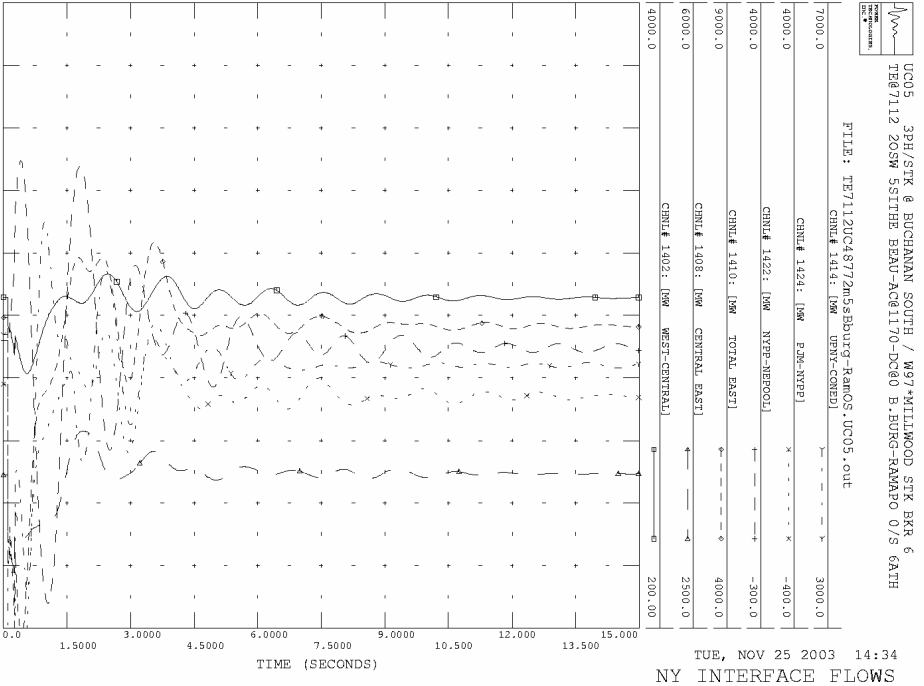
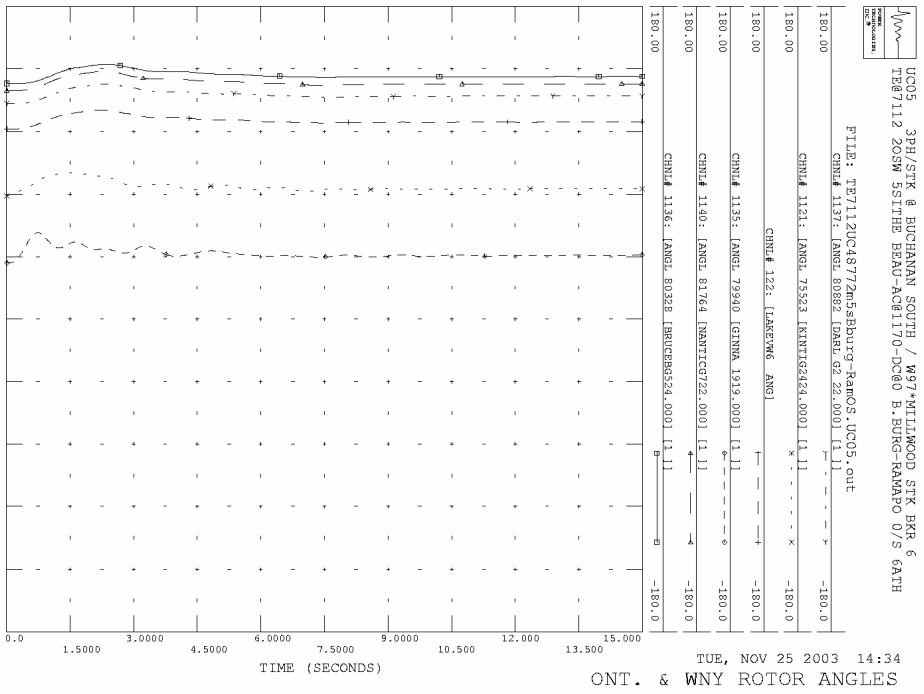
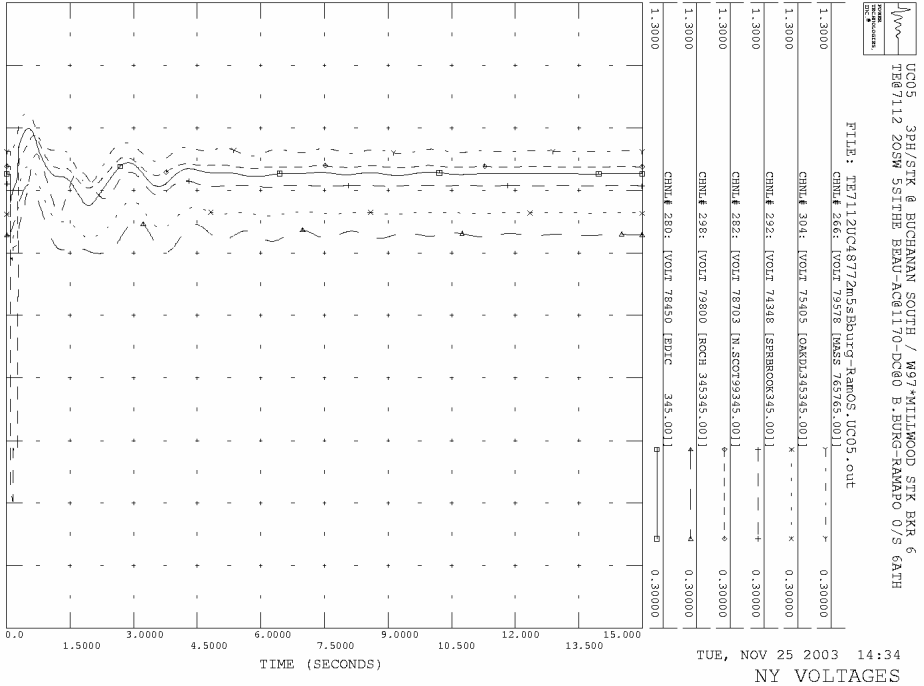






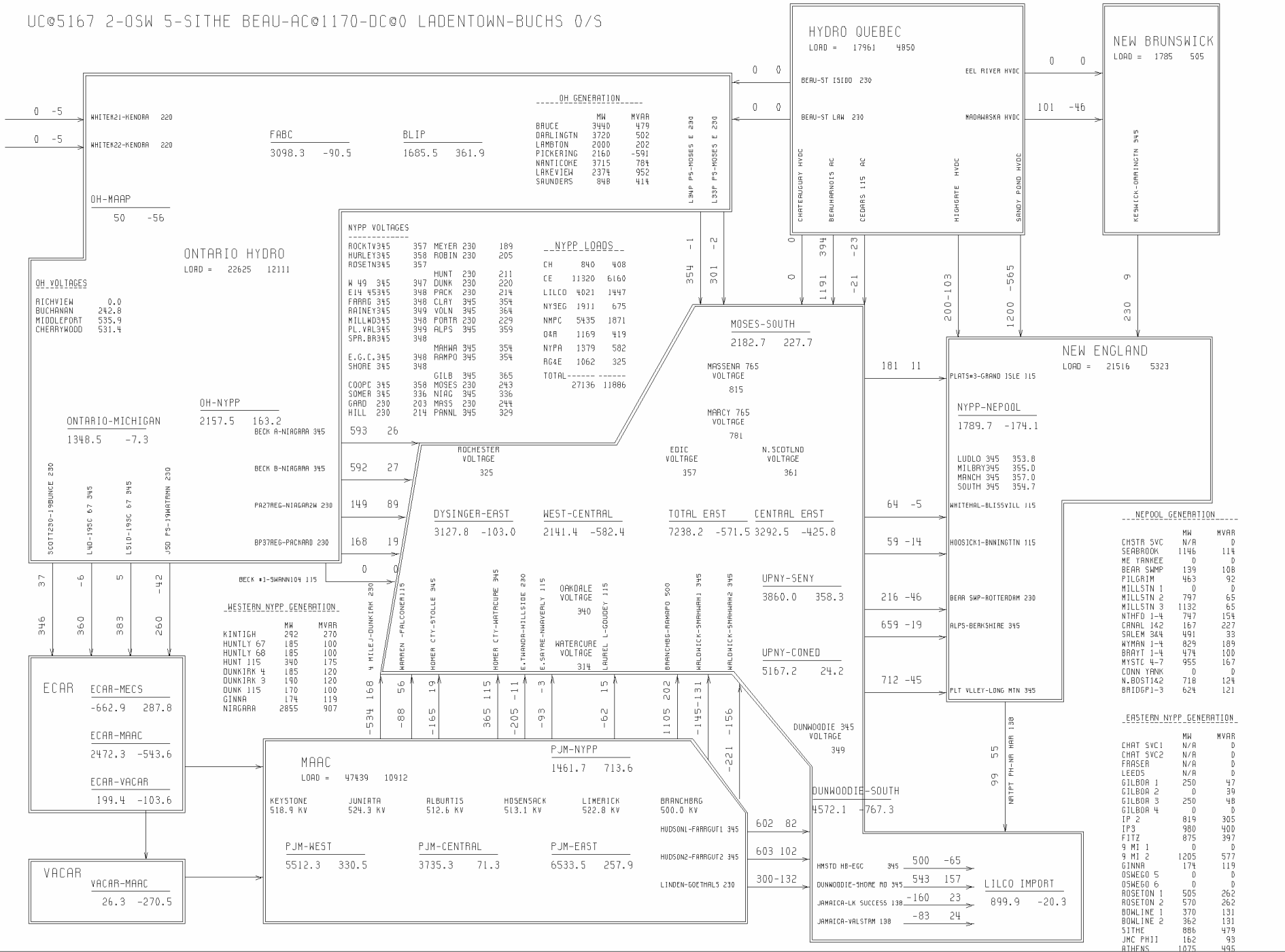
MOPAR5STAT2A.SAV B/O SUMMER MEN/VEH BASE CASE 200MVA STATCON  
 TR@7112 20SW 5SITEH BEAU-AC@1170-DC@0 B.BURG-RAMAPO 0/S 6ATH  
 1) BRANCHBURG-RAMAPO O/S TUE, NOV 25 2003 14:31

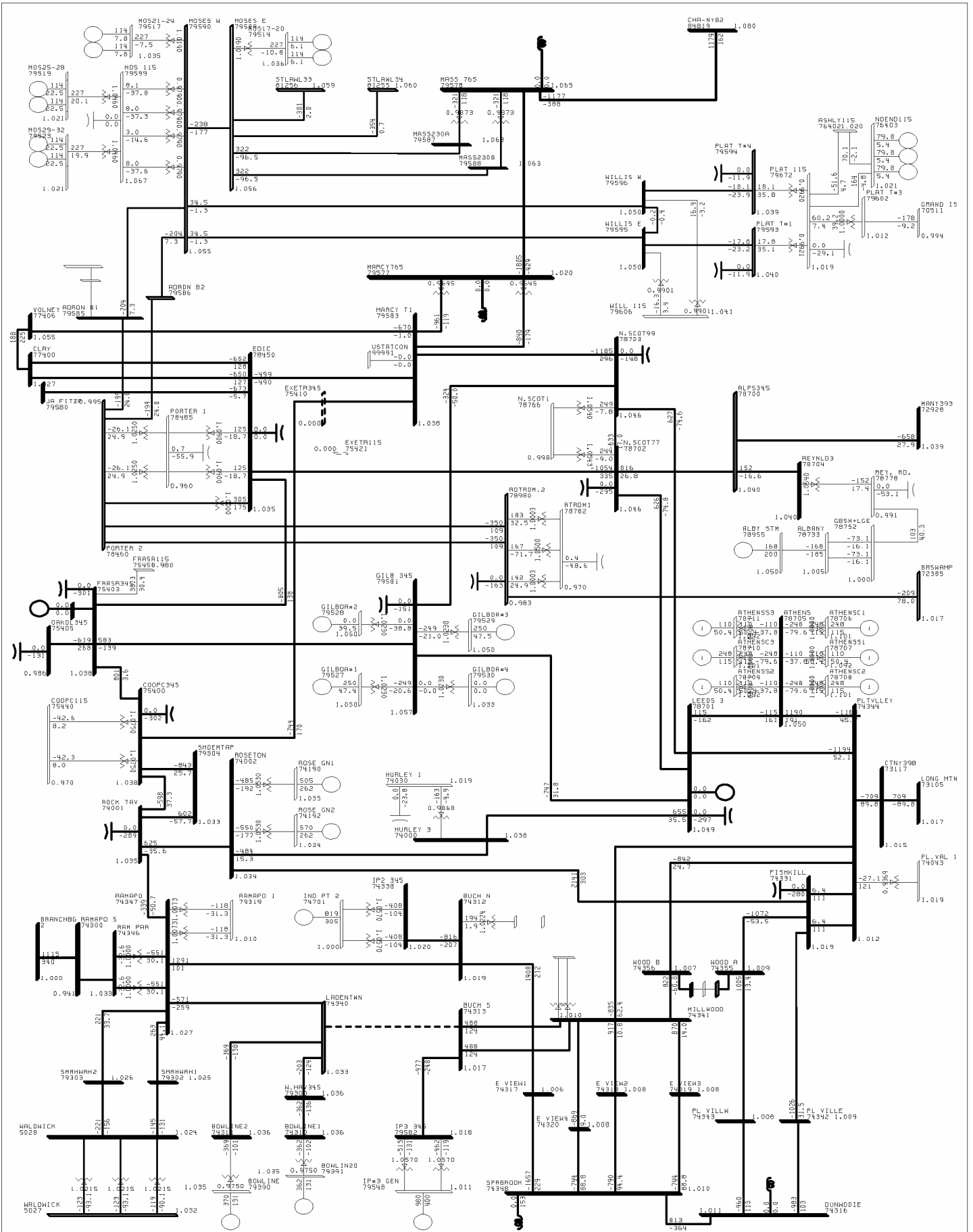
BUS - VOLTAGE (PU)  
 BRANCH - MW/MVAR  
 EQUIPMENT - MW/MVAR  
 KV: <math>\leq 138 .4230 .4345</math>





MOPAR5STAT2A.SAV B/O SUMMER MEN/DEM BASE CASE 200MVA STATCON  
 UC@5167 2-OSW 5-SITHE BEAU-AC@1170-DC@0 LADENTOWN-BUCHS 0/S

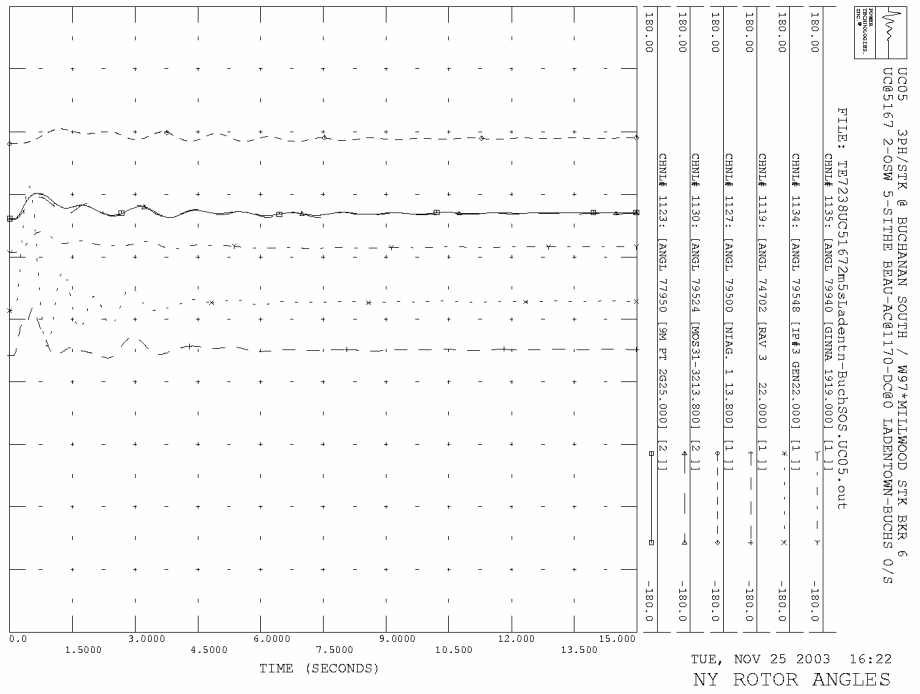
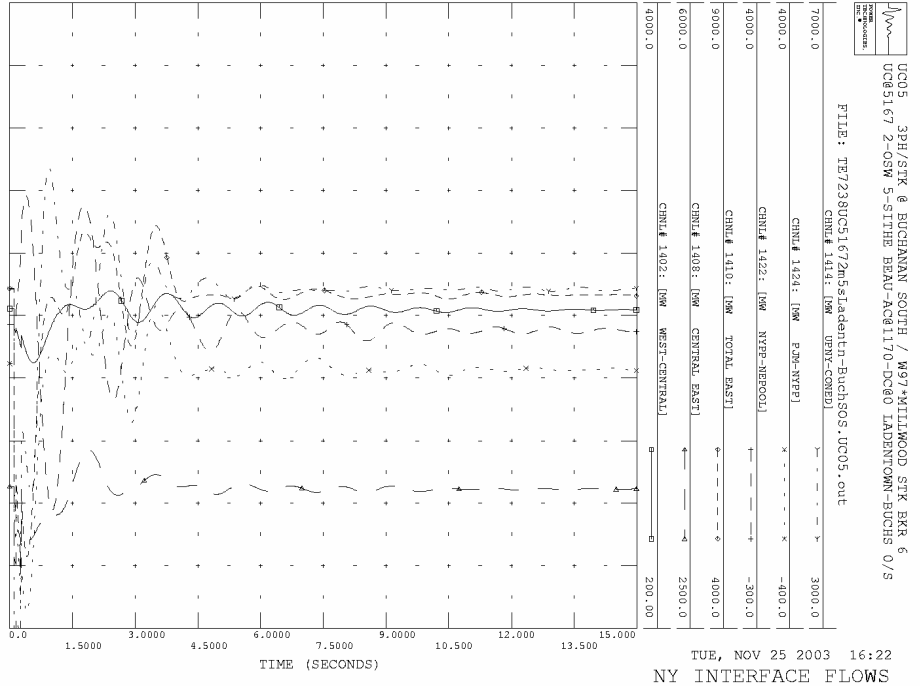
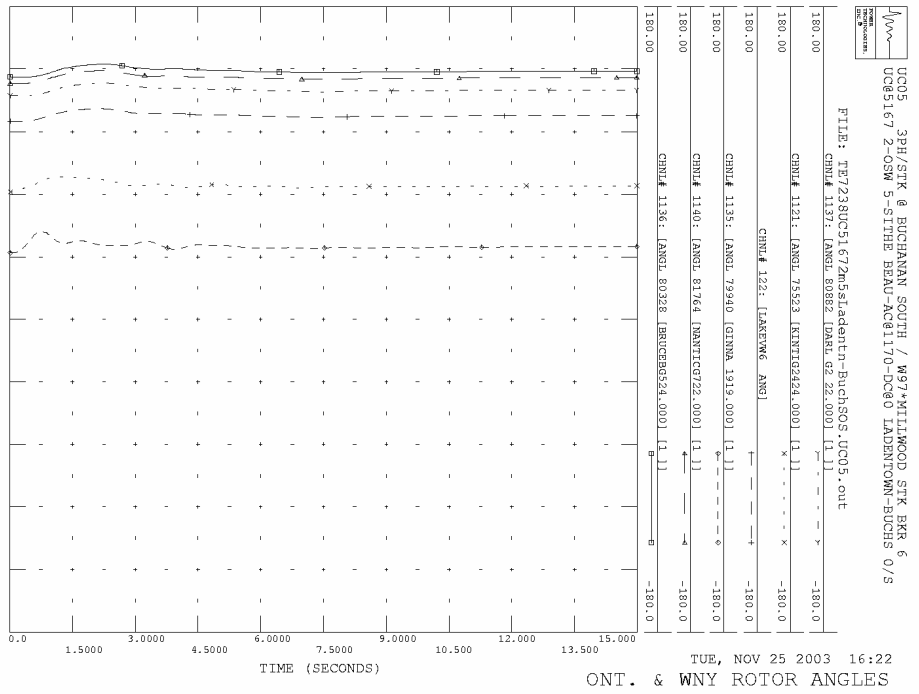
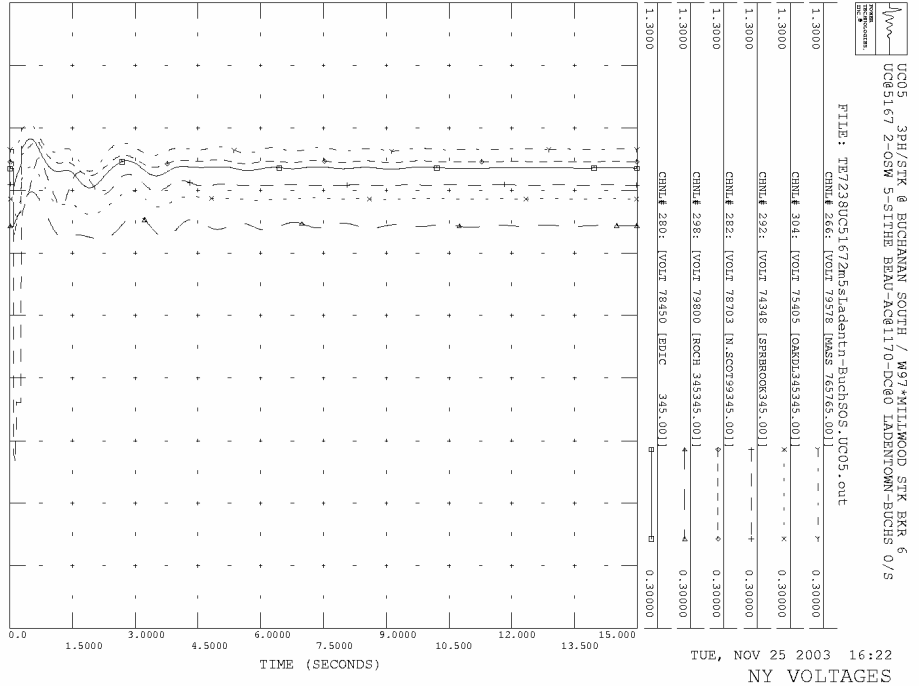


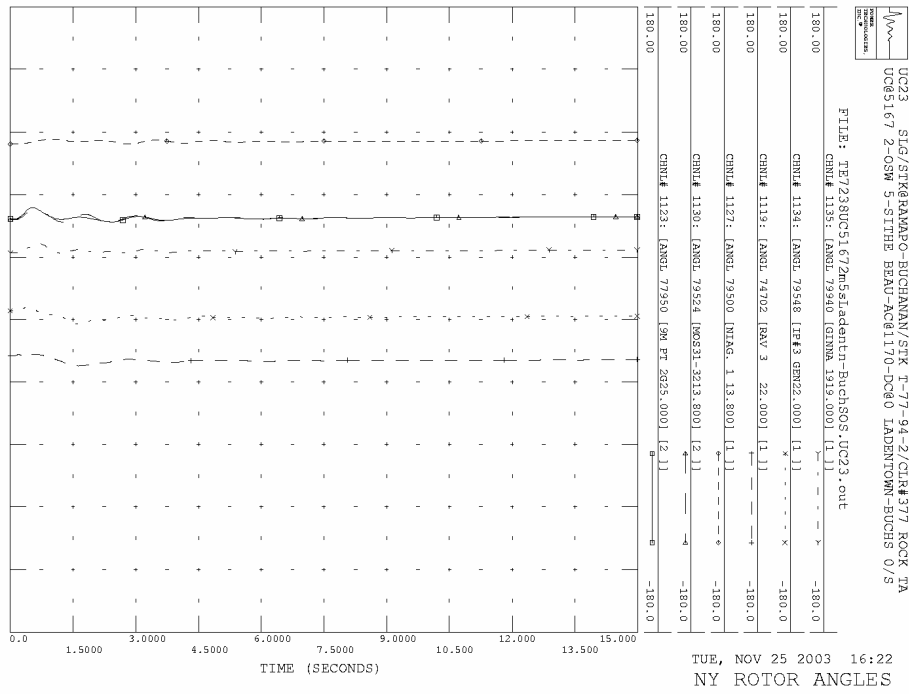
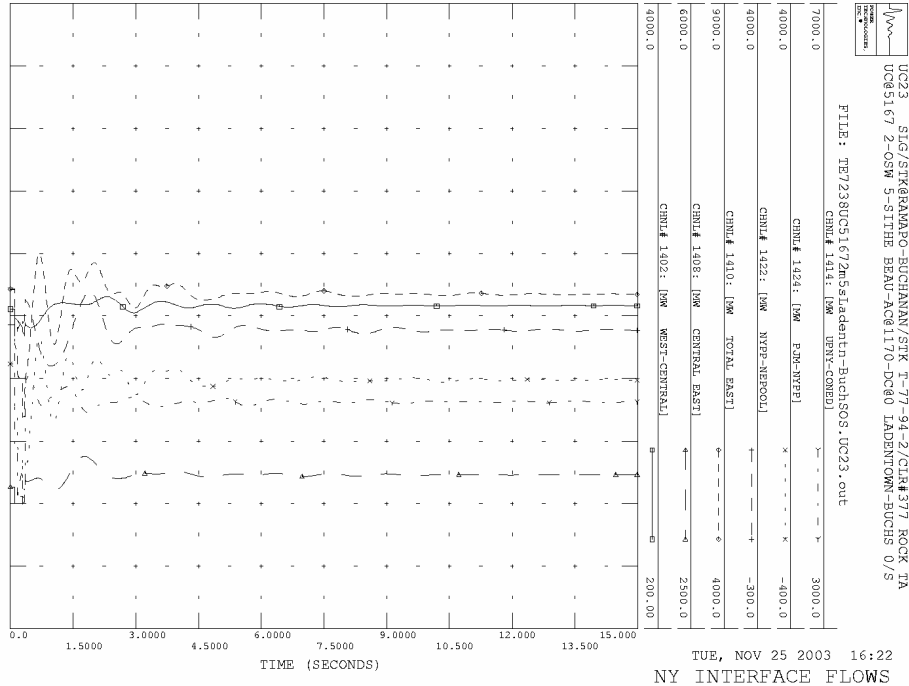
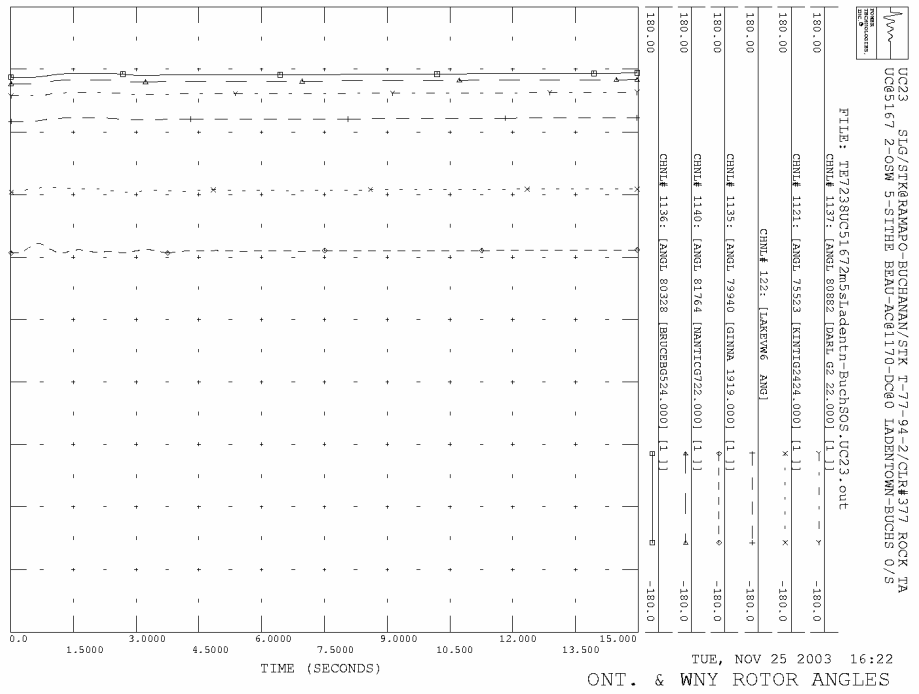
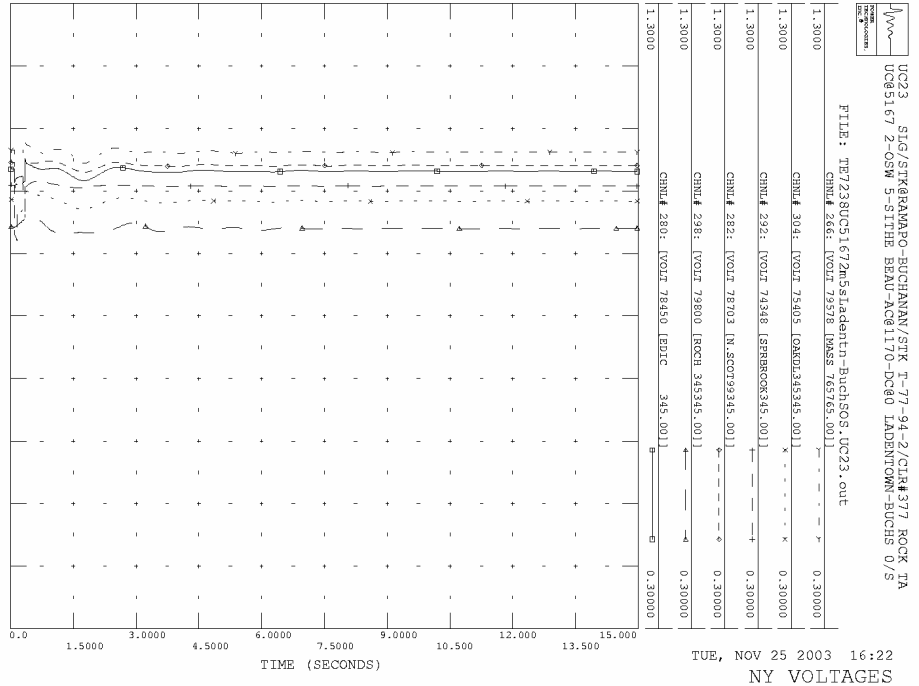


MOPAR5STAT2A.SAV B/O SUMMER MEN/VEH BASE CASE 200MVA STACON  
 UC@5167 2-OSW 5-SITHE BEAU-AC@1170-DC@0 LADENTOWN-BUCHS 0/S  
 1) LADENTOWN-BUCHS 0/S TUE, NOV 25 2003 16:19

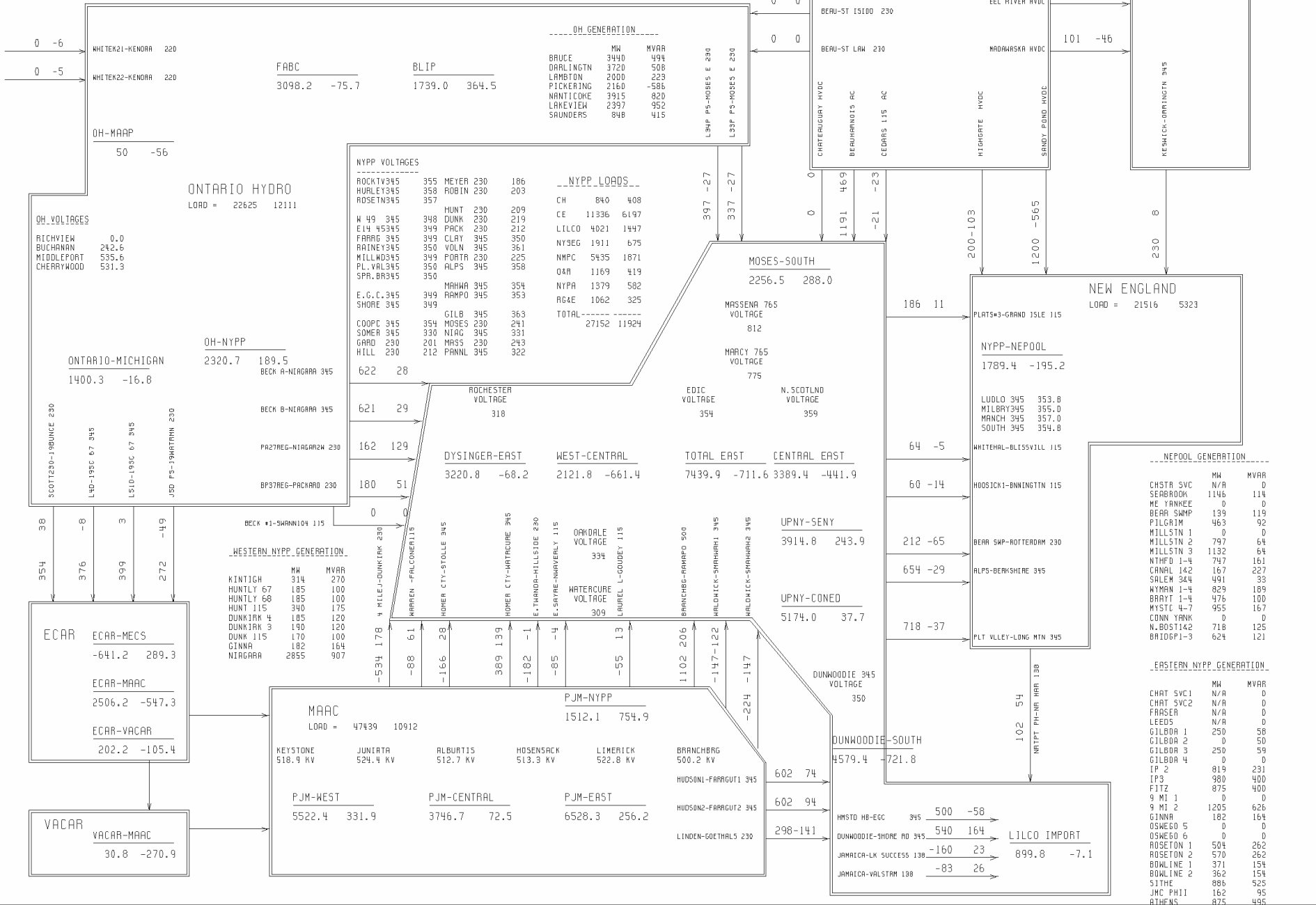
KW: ≤138 .4290 .4345

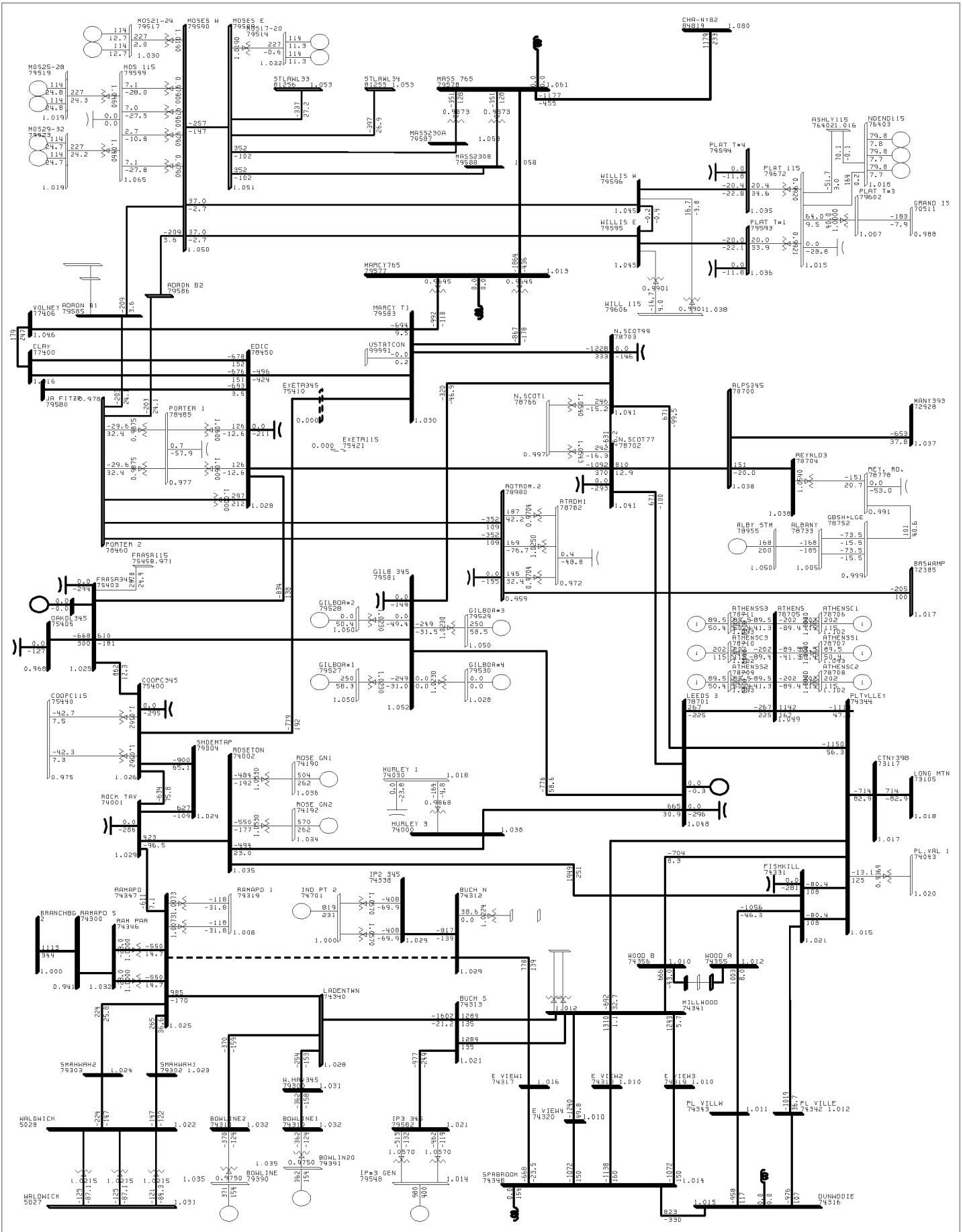
BUS - VOLTAGE (PU)  
 BRANCH - MW/MVAR  
 EQUIPMENT - MW/MVAR

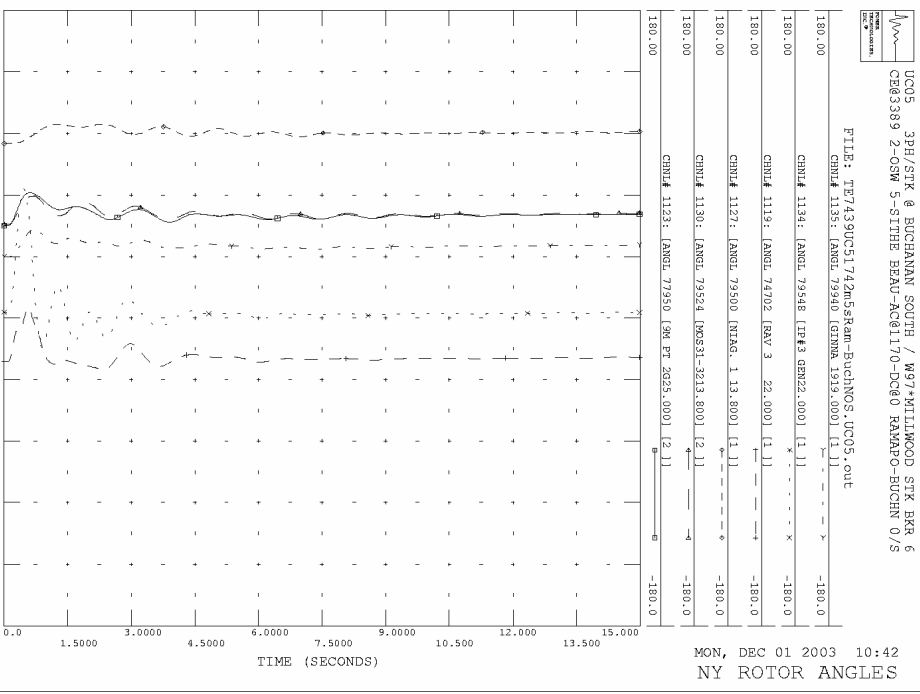
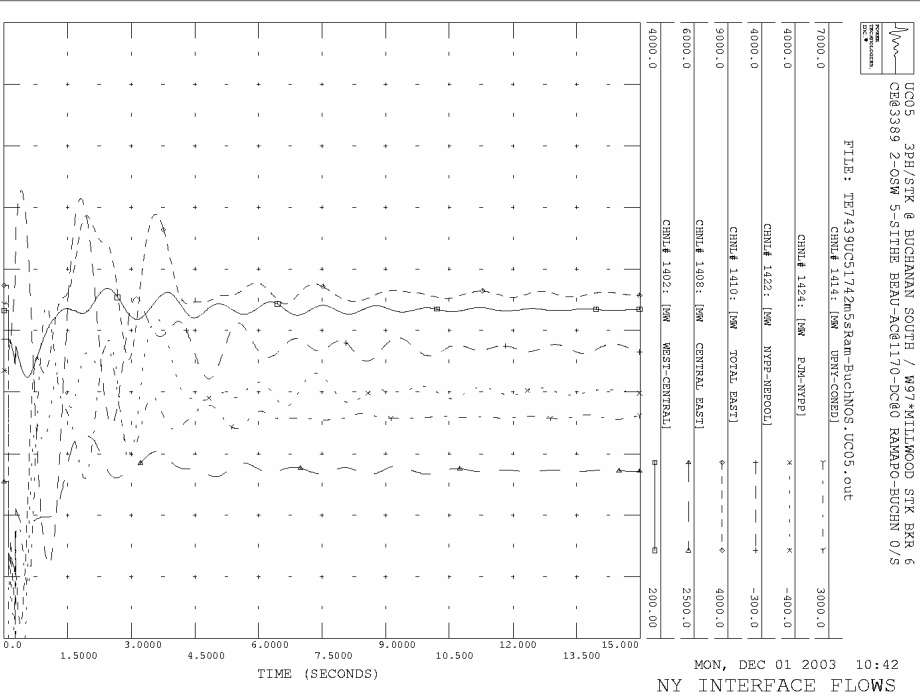
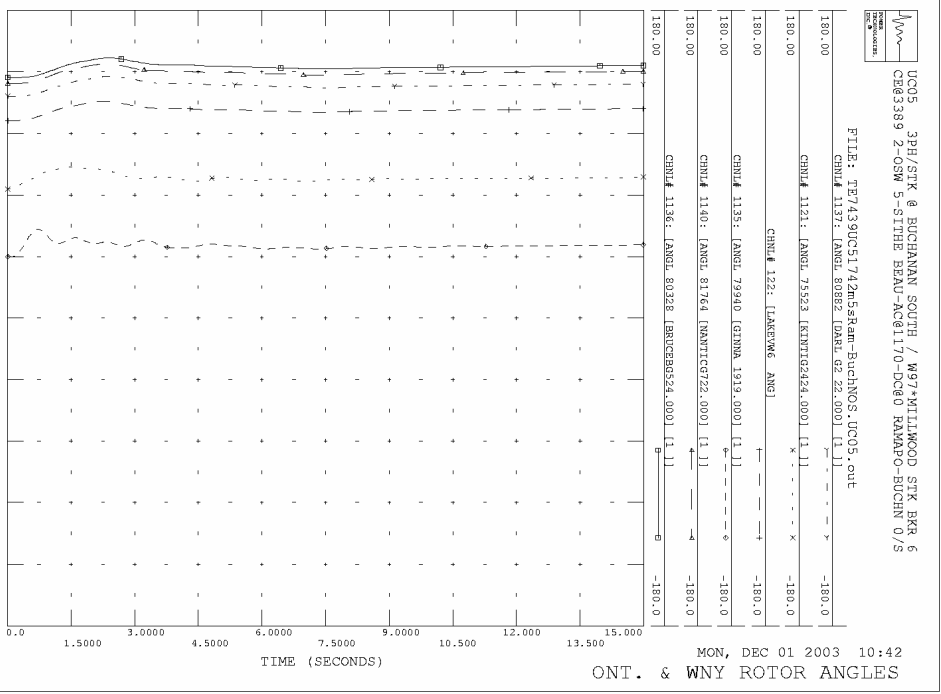
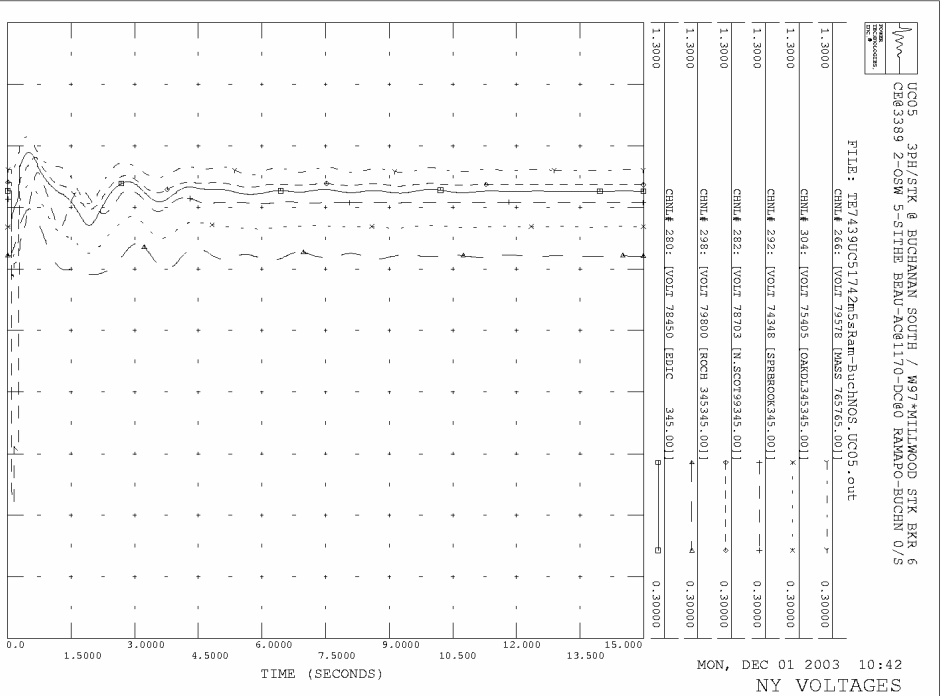


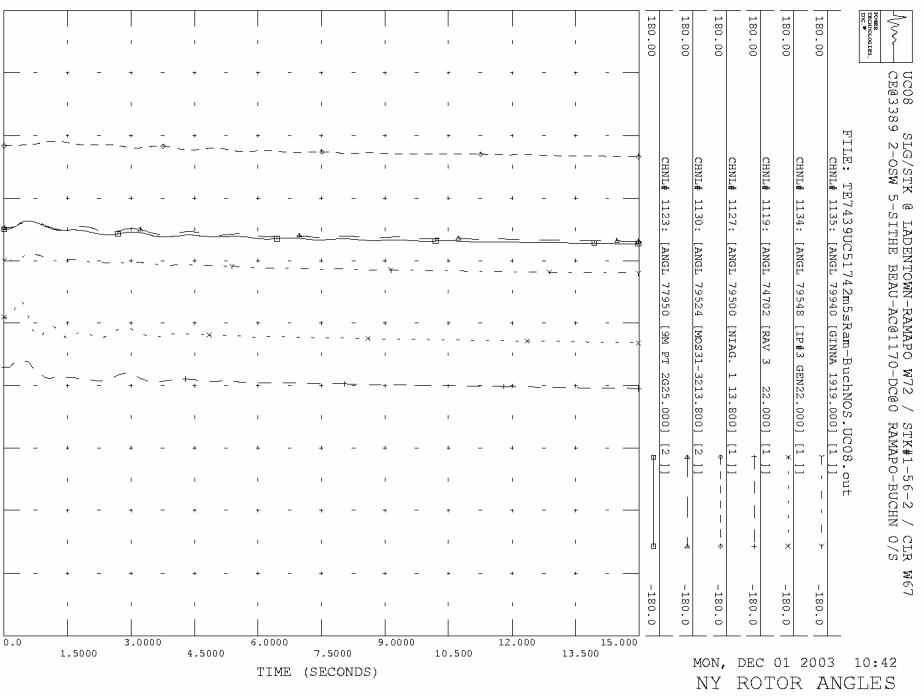
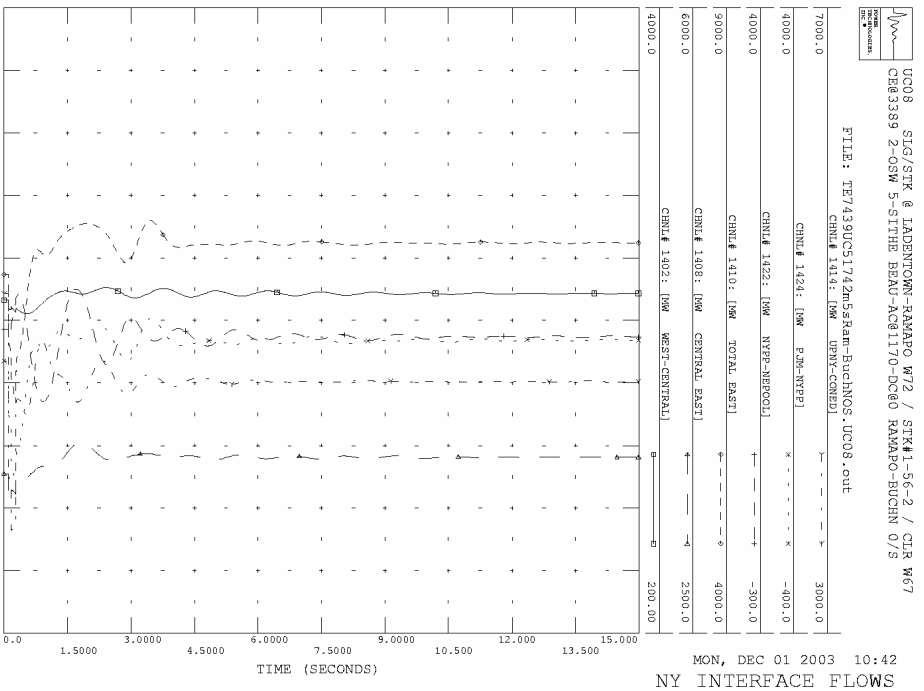
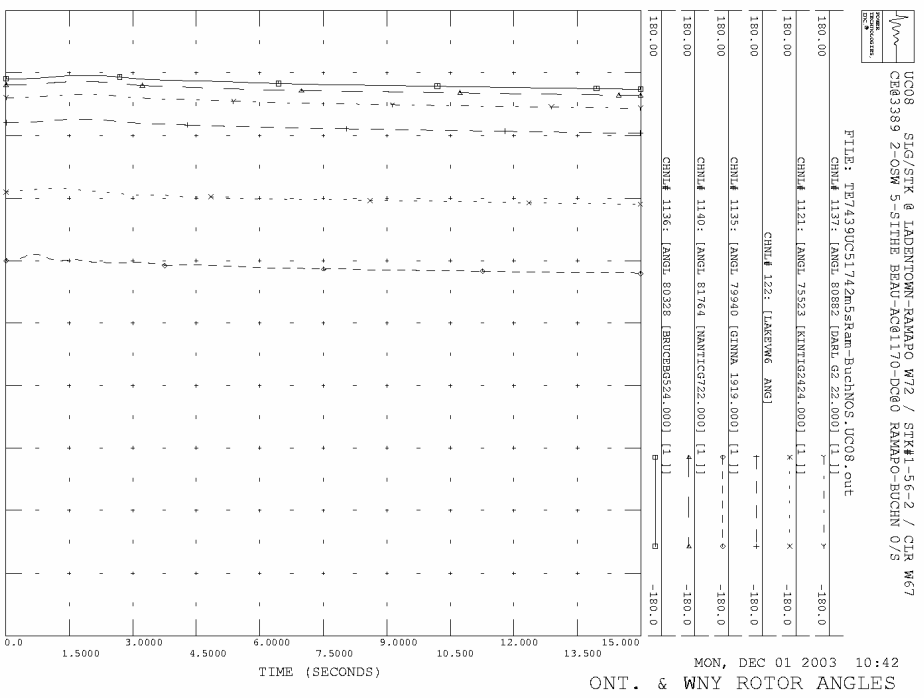
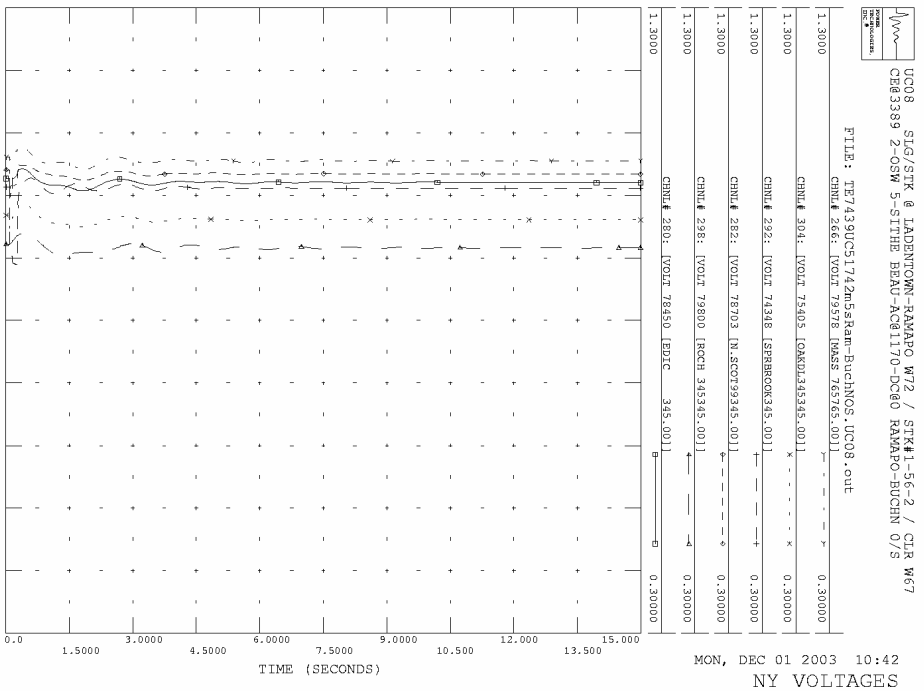


MOPAR5STAT2A.SAV B/O SUMMER MEN/VEM BASE CASE 200MVA STATCON  
 CE@3389 2-OSW 5-SITHE BEAU-AC@1170-DC@0 RAMAPO-BUCHN 0/S

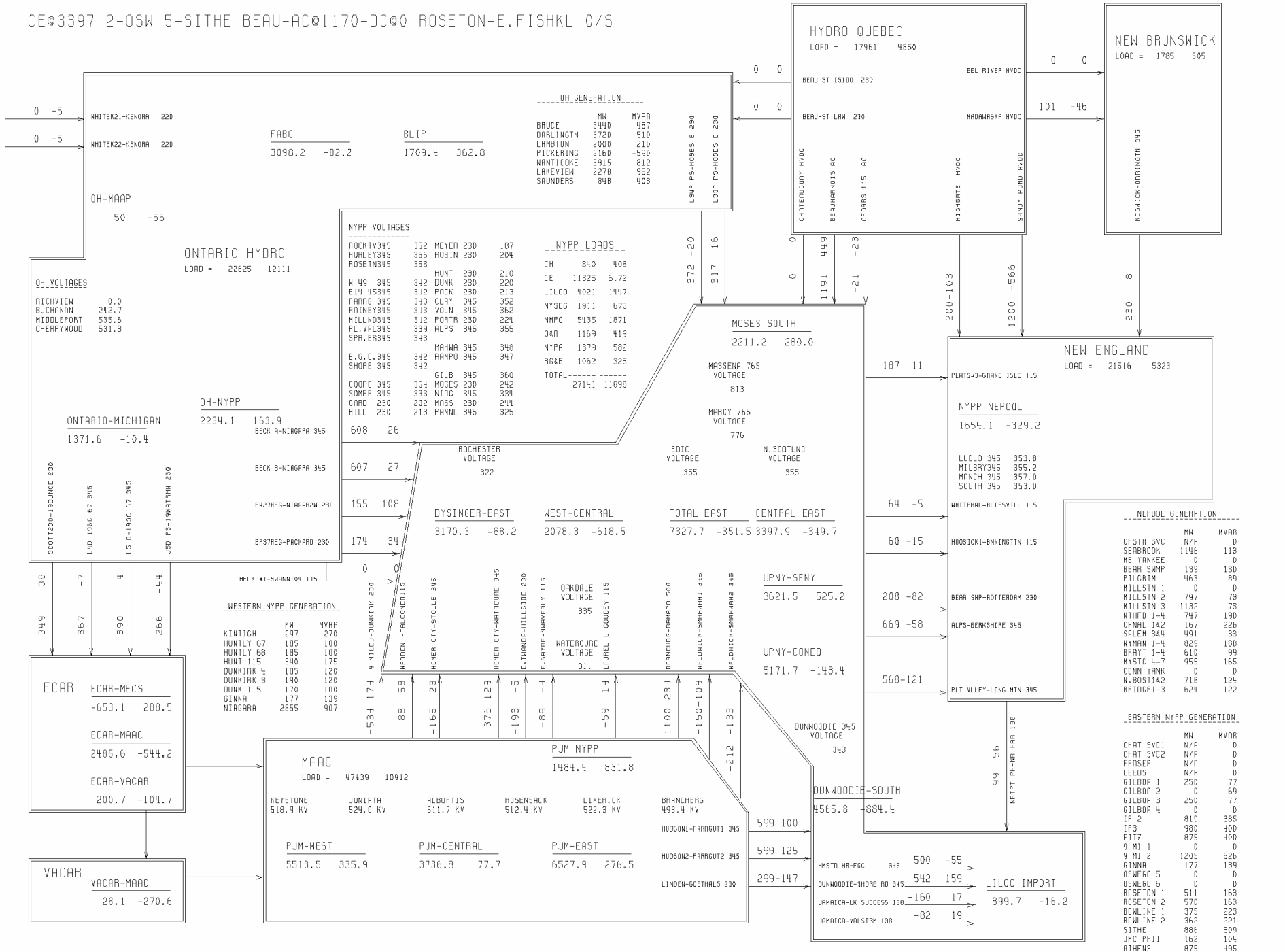




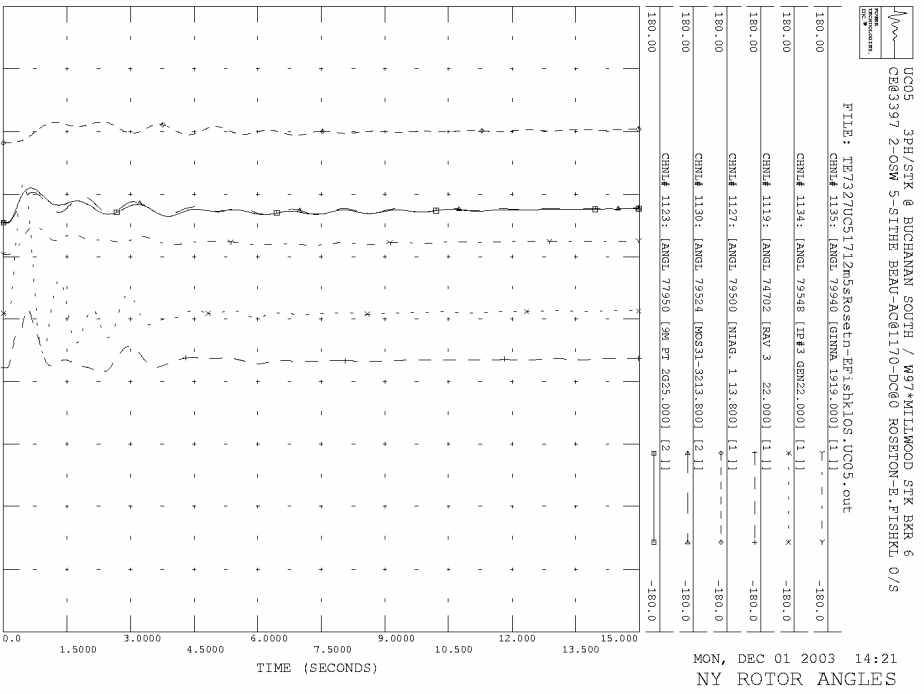
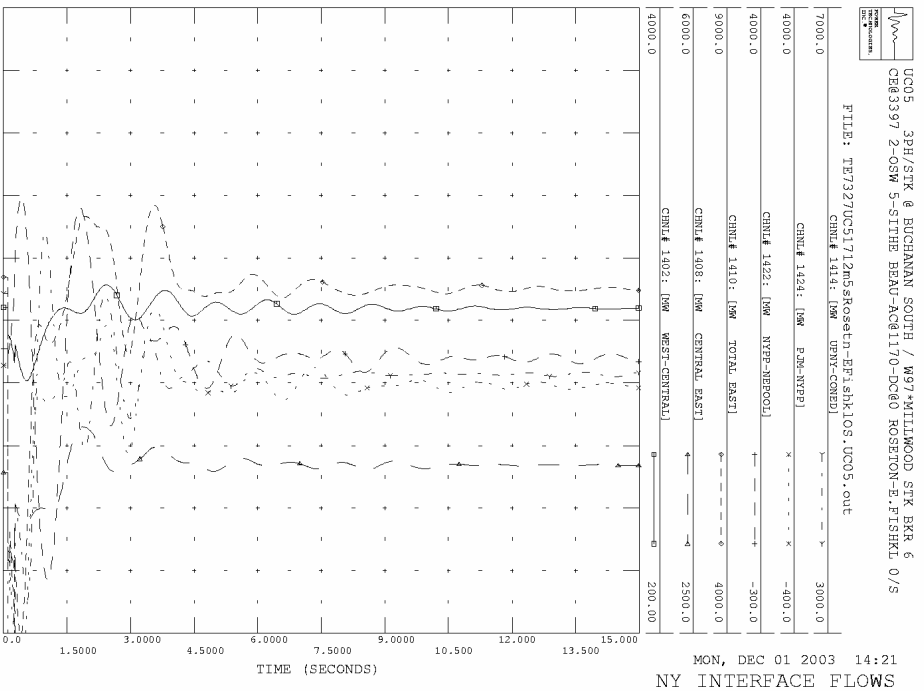
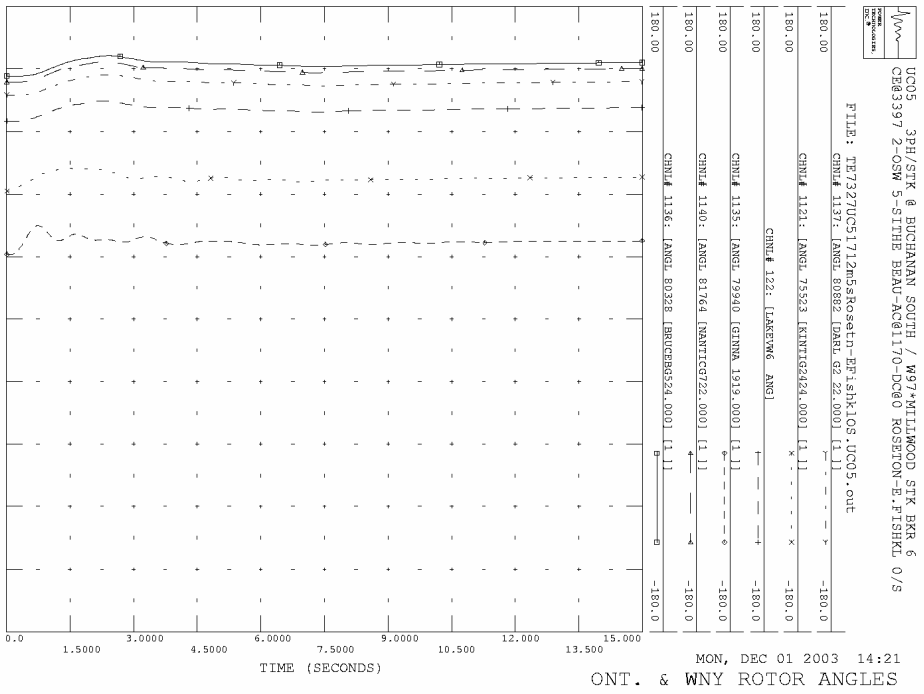
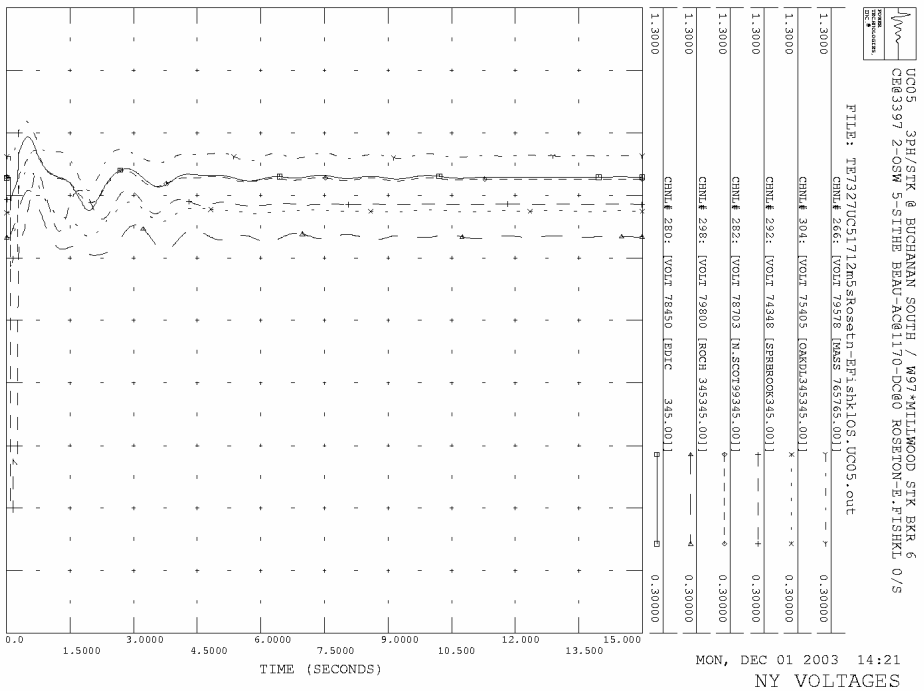


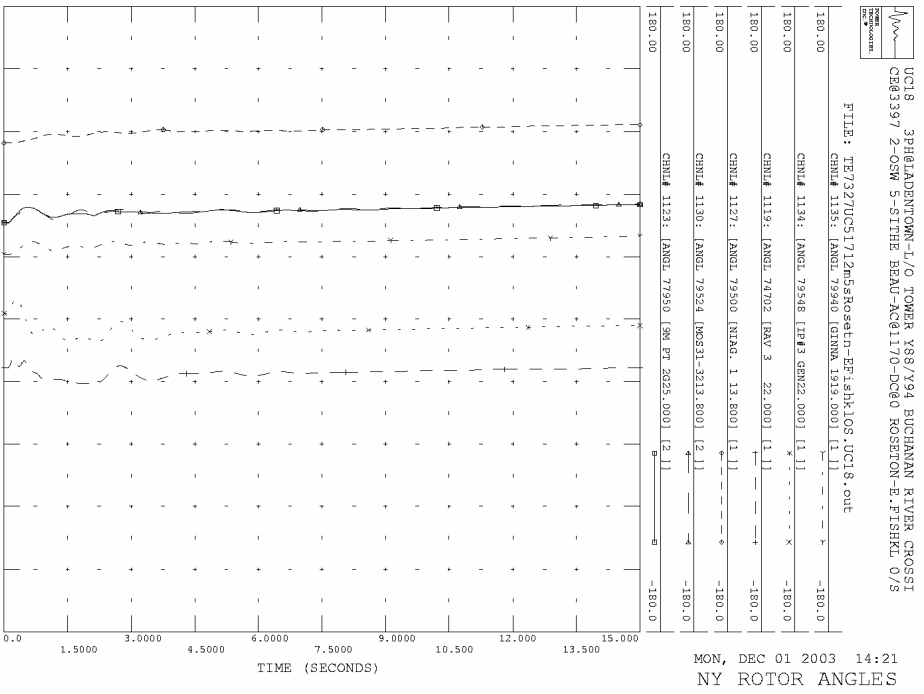
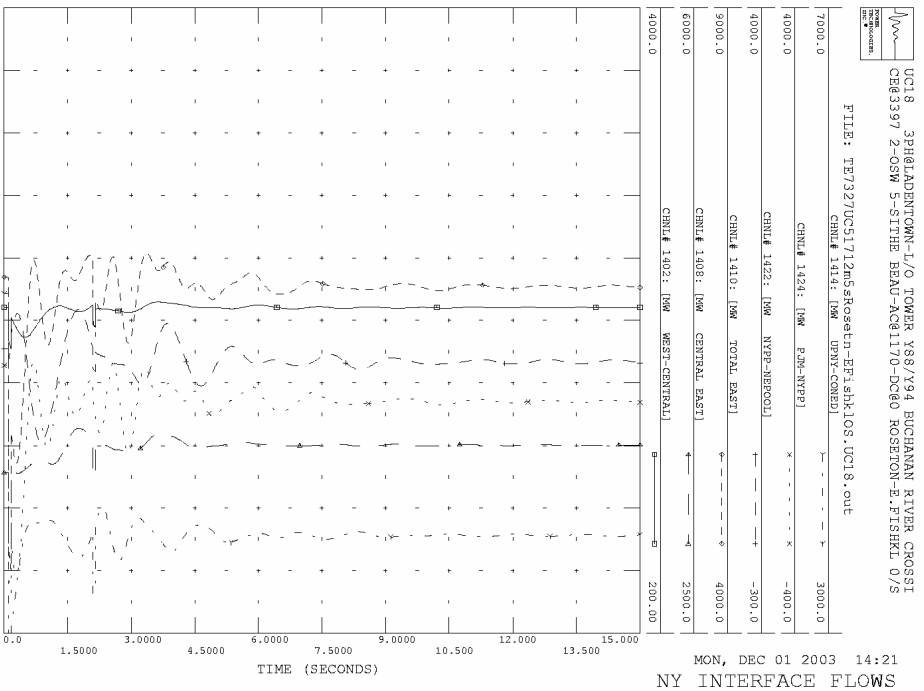
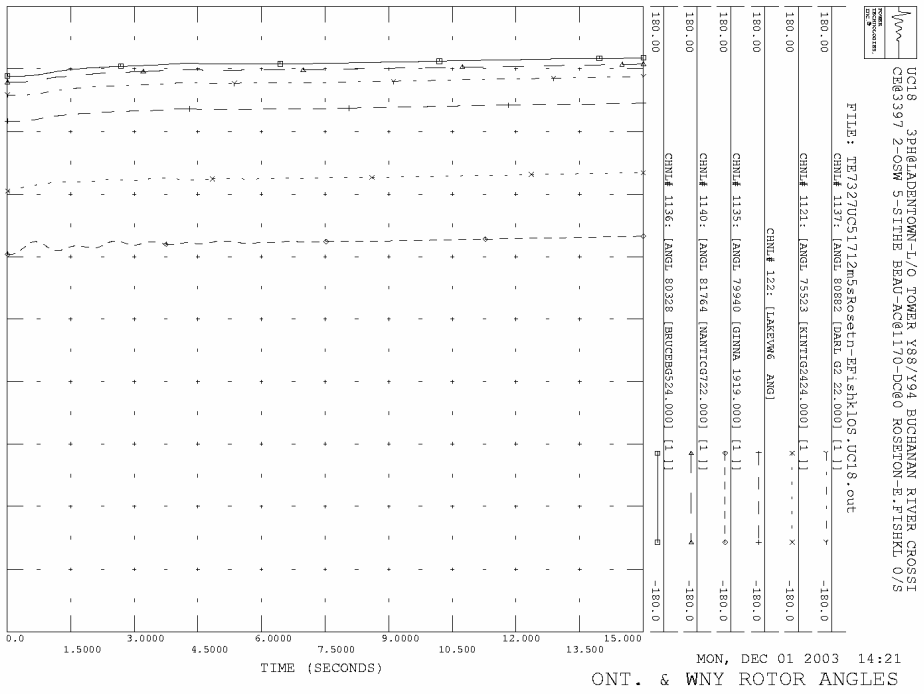
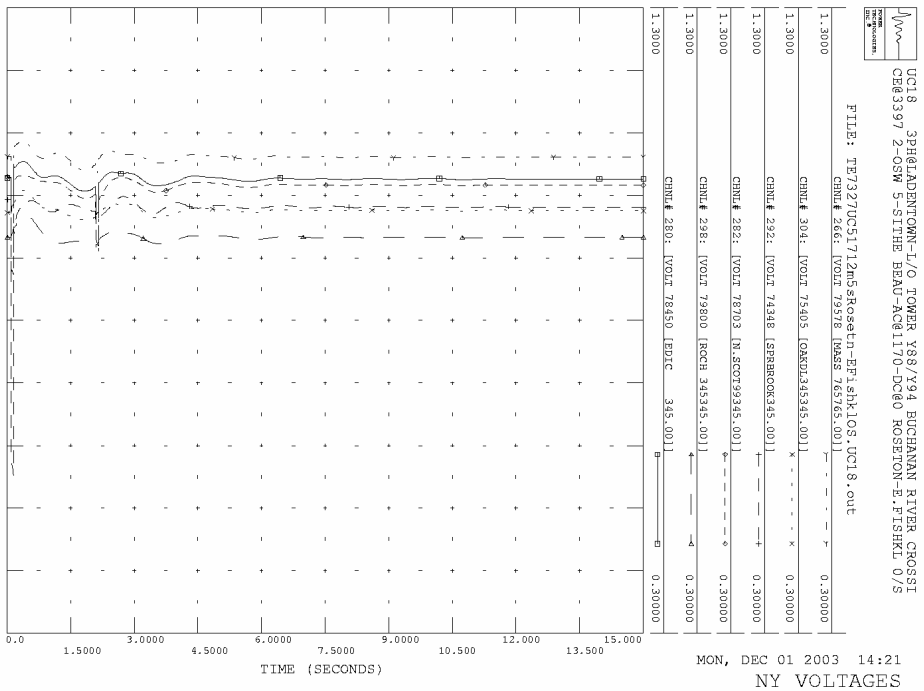










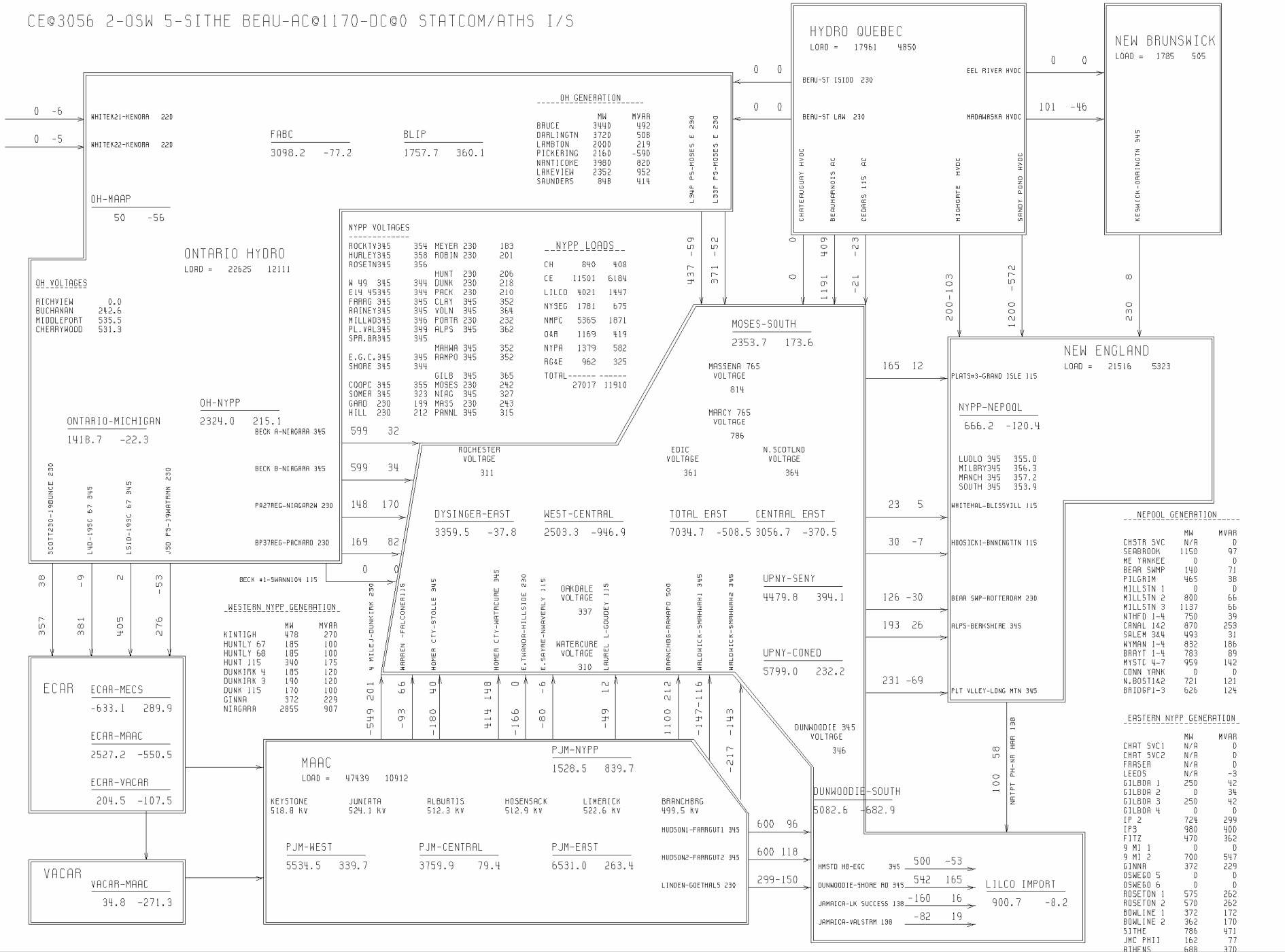


**APPENDIX D**  
(Dynamic Simulation Plots)

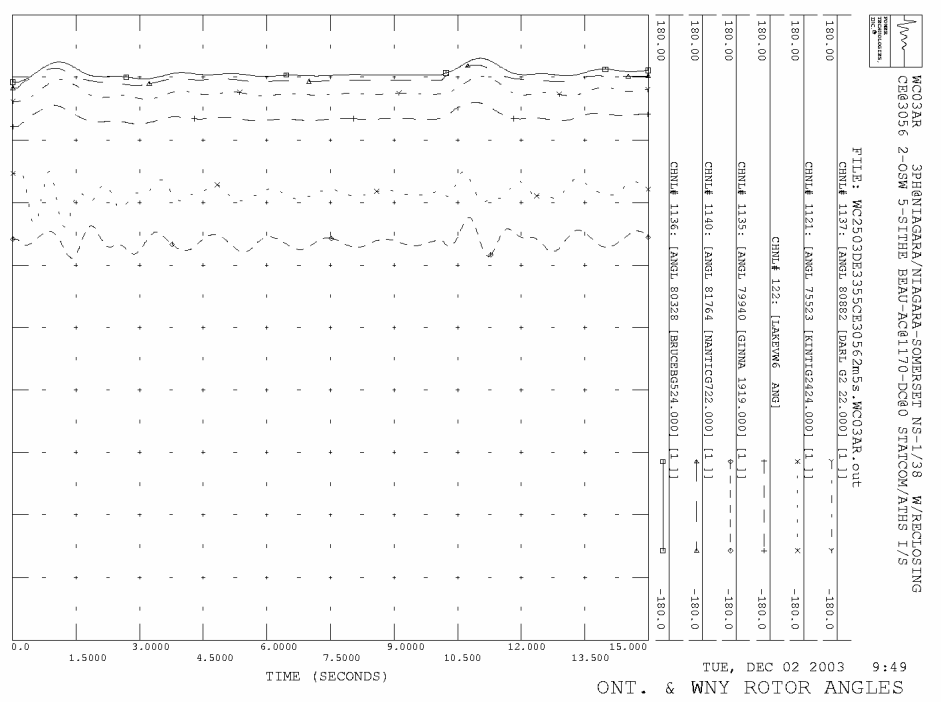
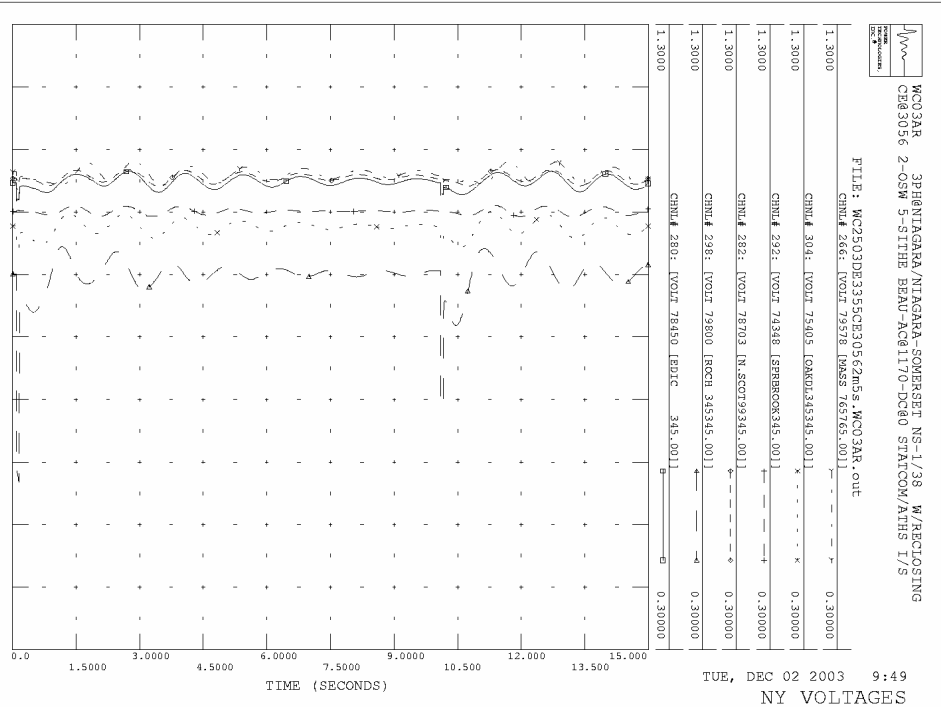
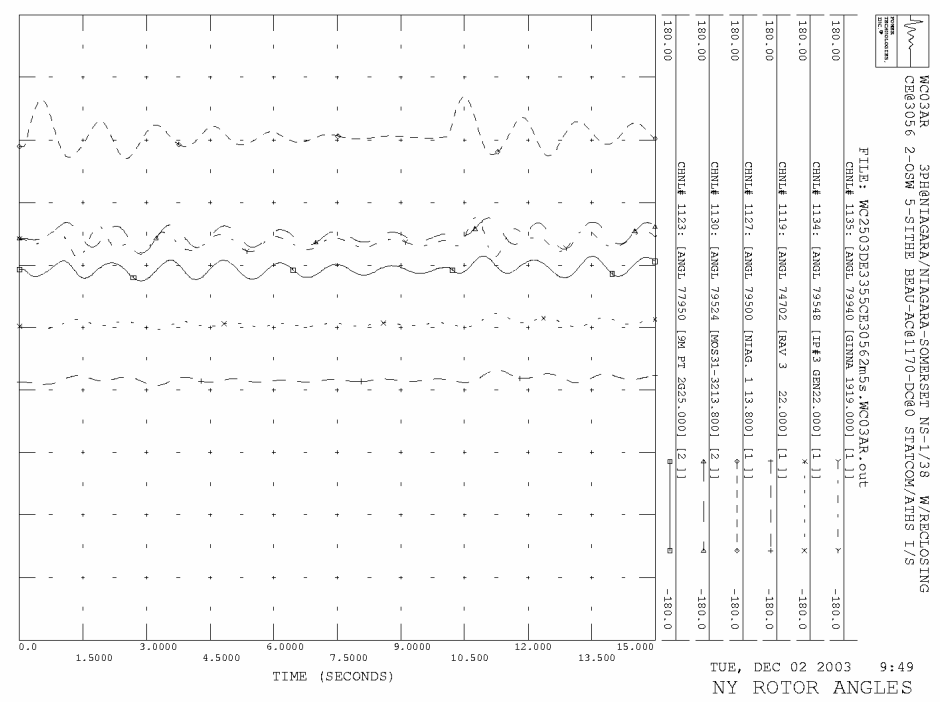
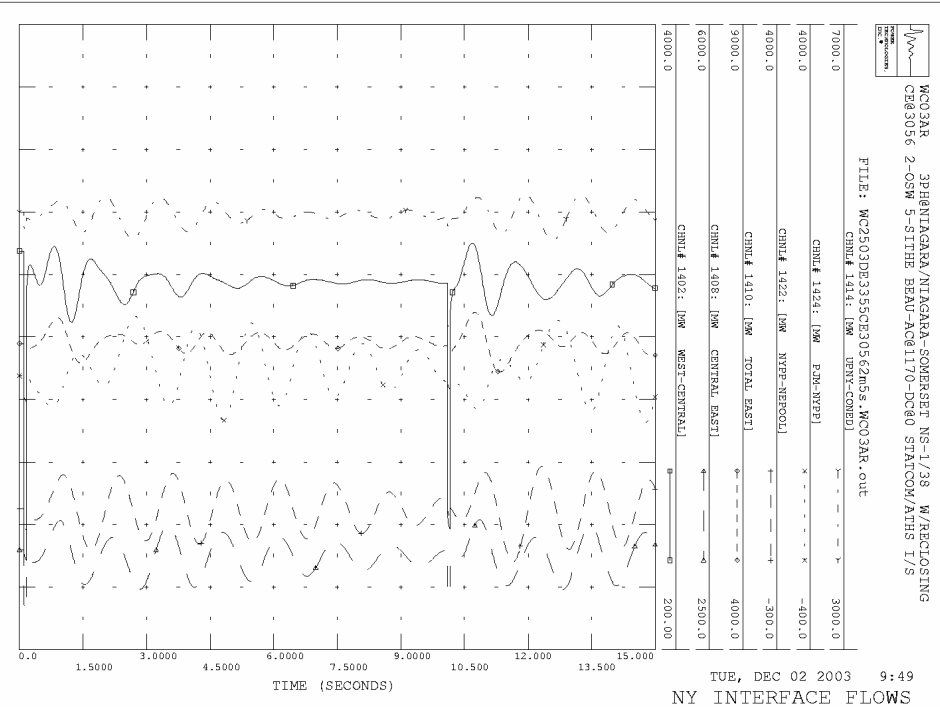
**DYSINGER EAST ALL LINES I/S AND LINE OUTAGES**

Dysinger East All Lines I/S  
Niagara - Rochester (NR-2) O/S  
Somerset – Rochester (SR-1) O/S  
Stole Road – Meyer (67) 230 kV O/S  
Meyer – Hillside (68) 230 kVO/S

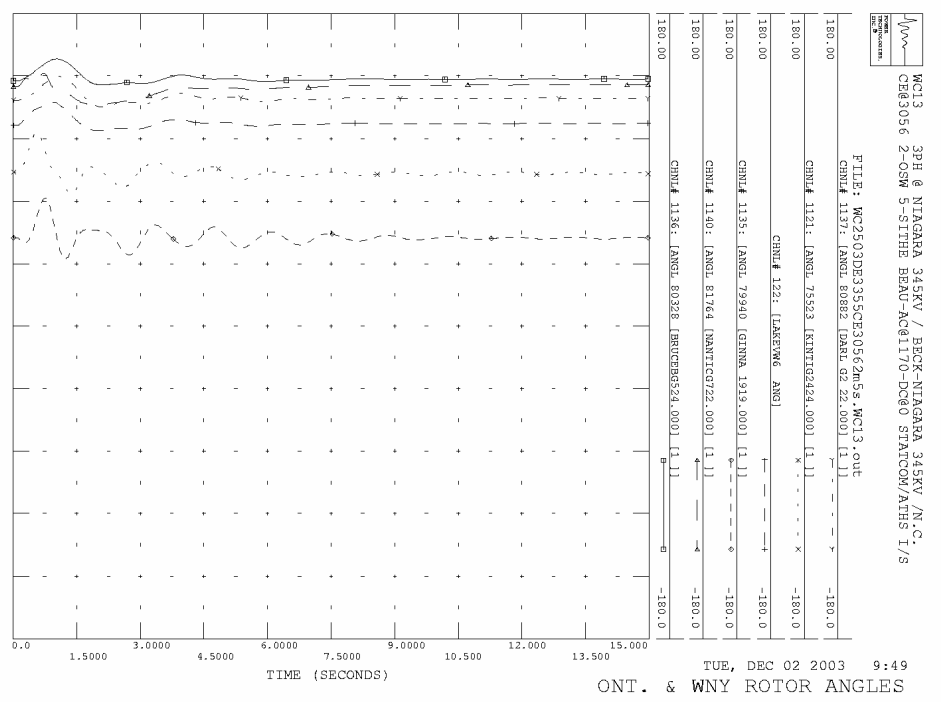
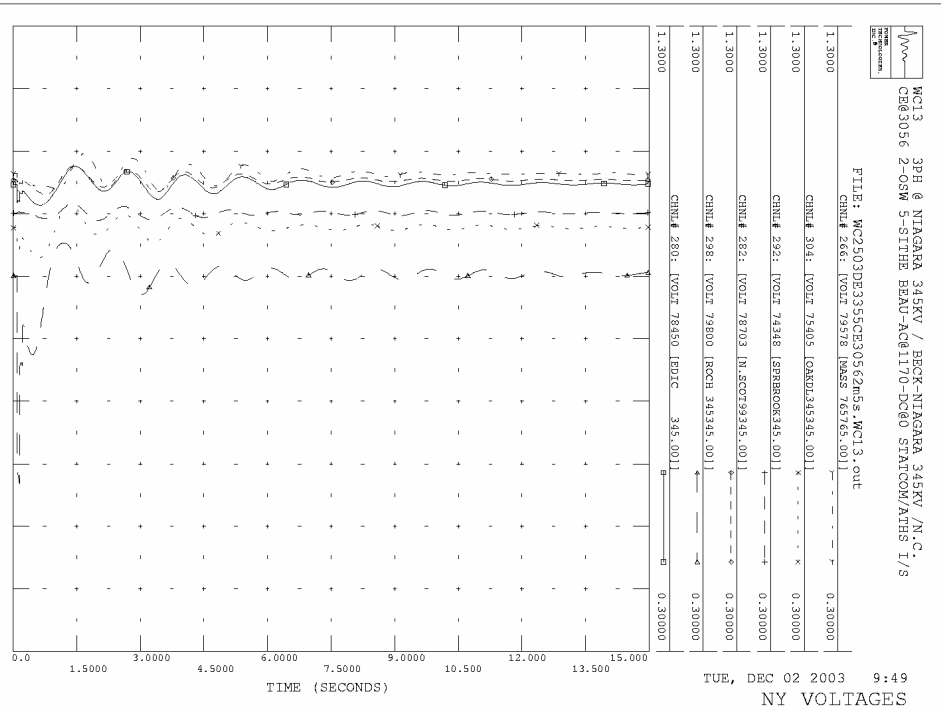
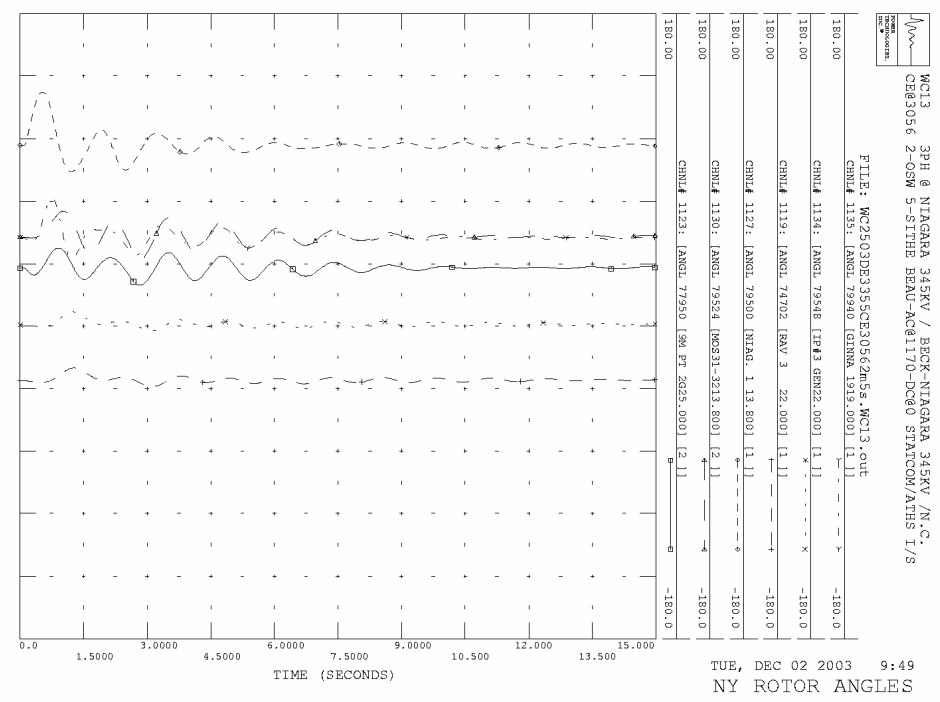
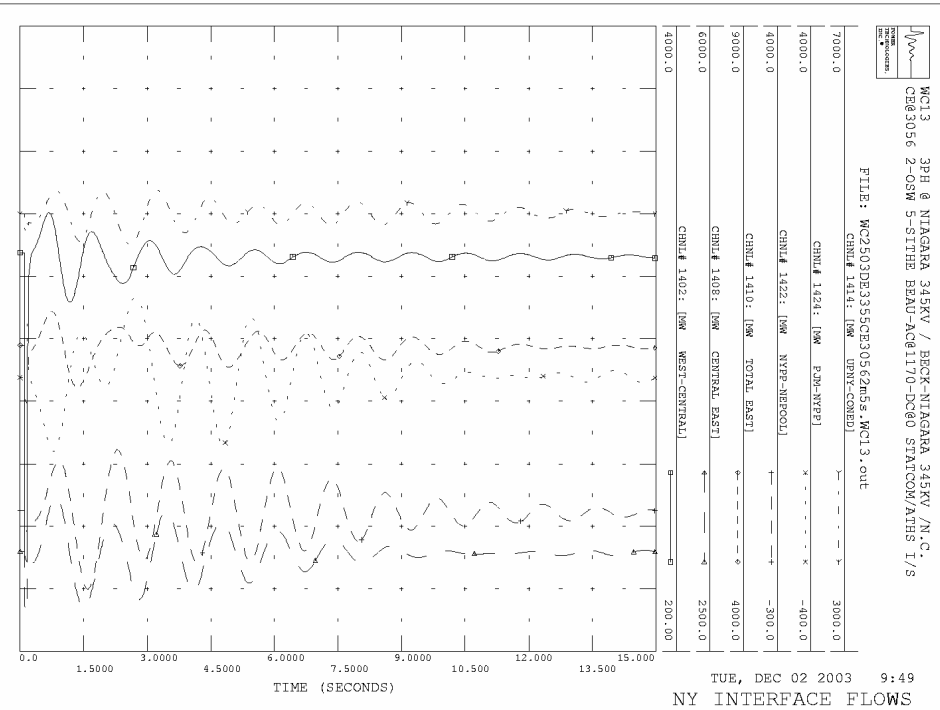
MOPAR5STAT2A.SAV B/O SUMMER MEN/DEM BASE CASE 200MVA STATCON  
 CE@3056 2-OSW 5-SITHE BEAU-AC@1170-DC@0 STATCOM/ATHS I/S





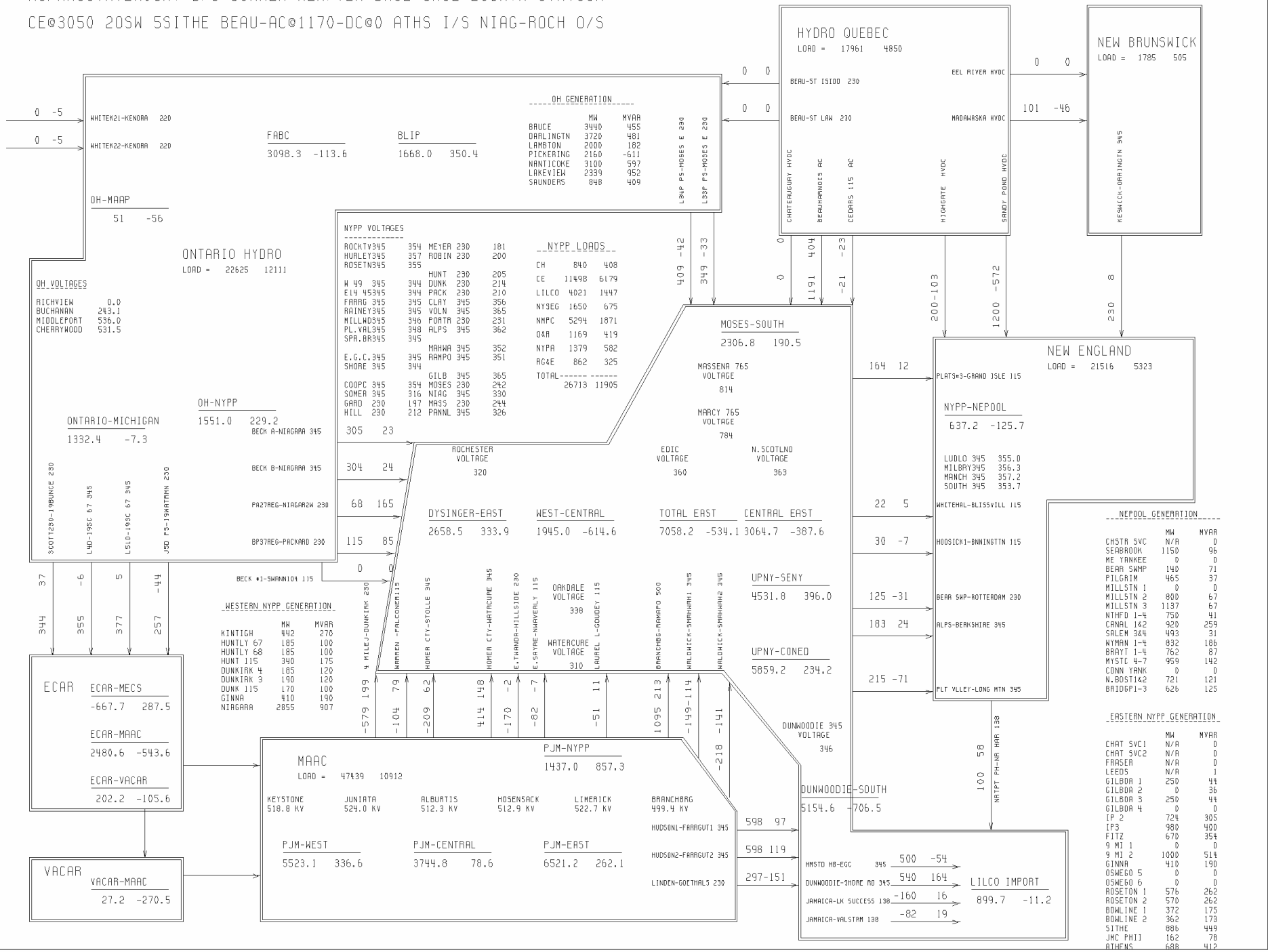






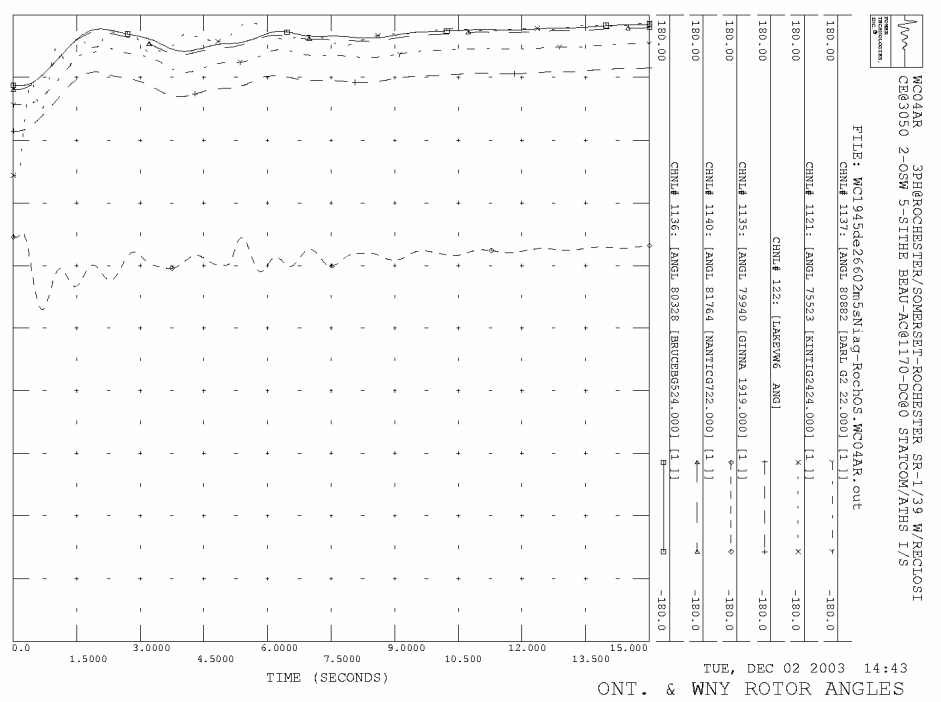
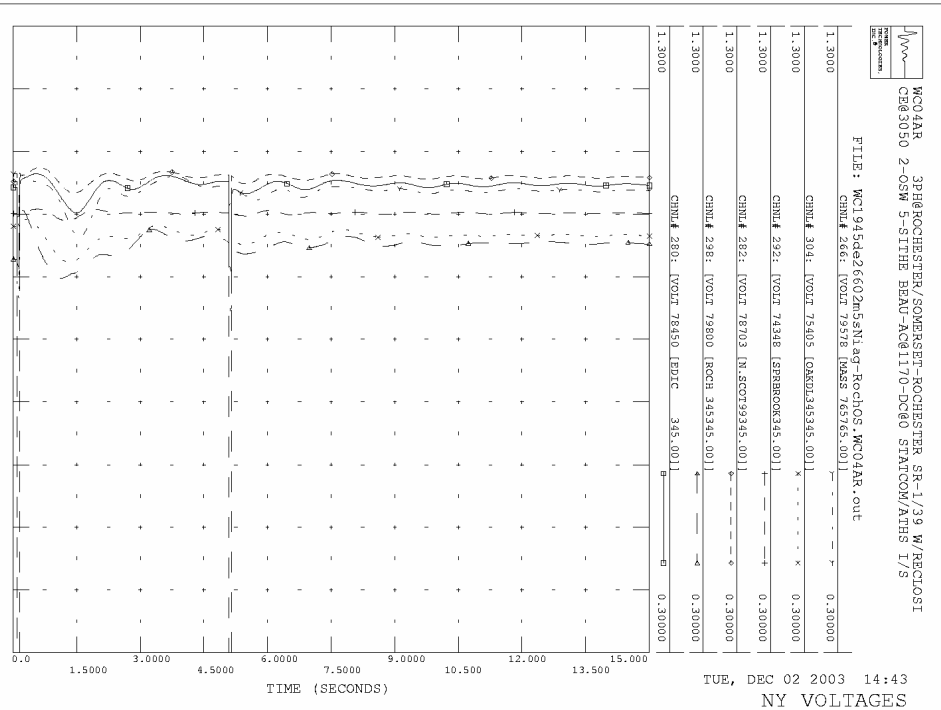
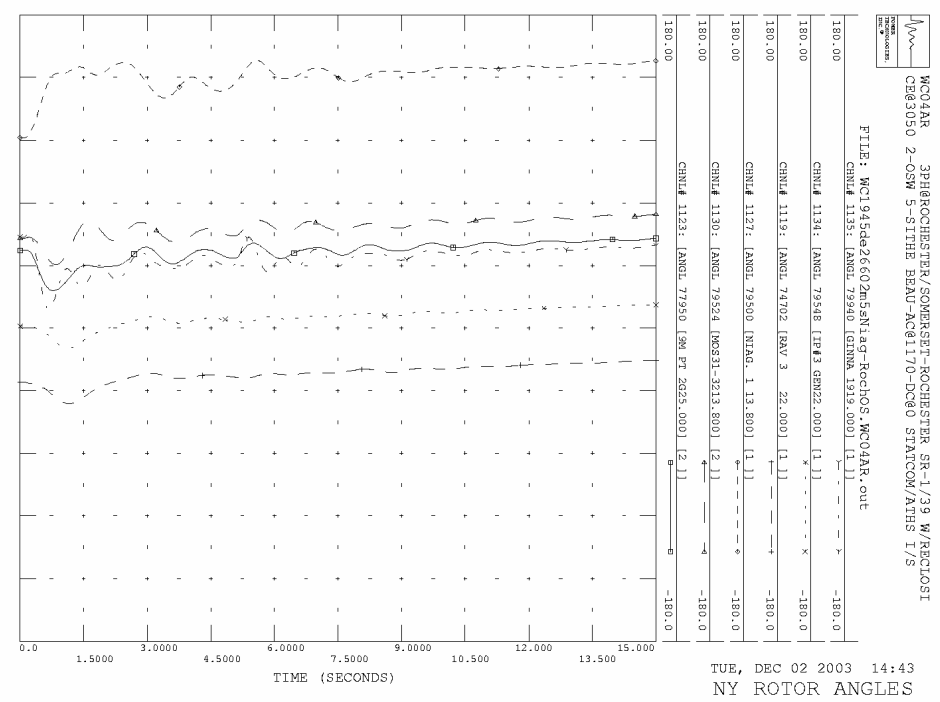
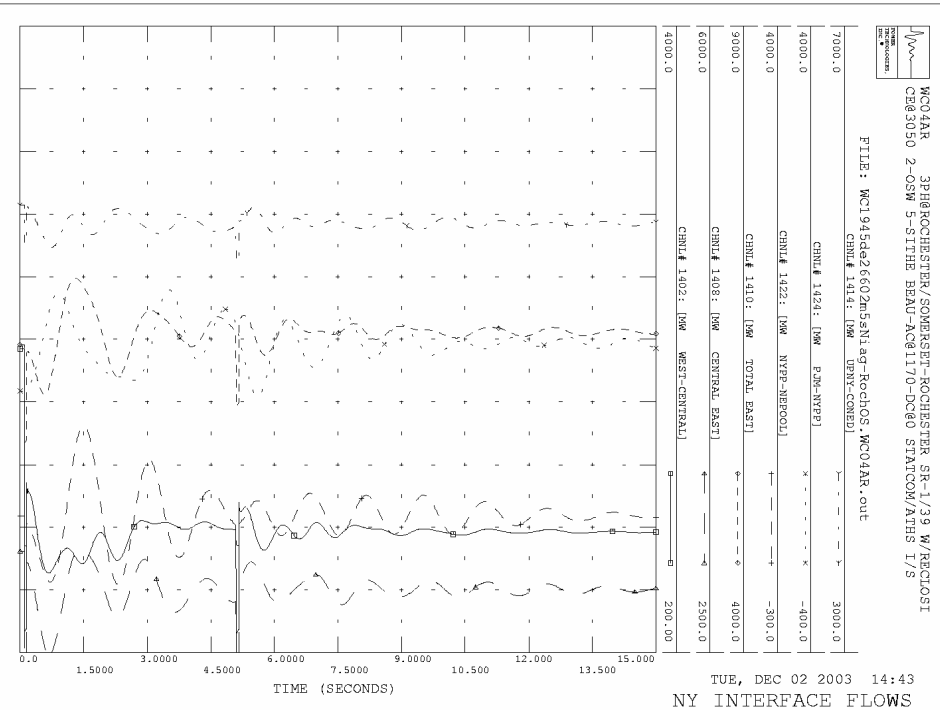


MOPAR5STAT2A.SAV B/O SUMMER MEN/VEM BASE CASE 200MVA STATCON  
 CE@3050 20SW 55ITHE BEAU-AC@1170-DC@0 ATHS I/S NIAG-ROCH O/S

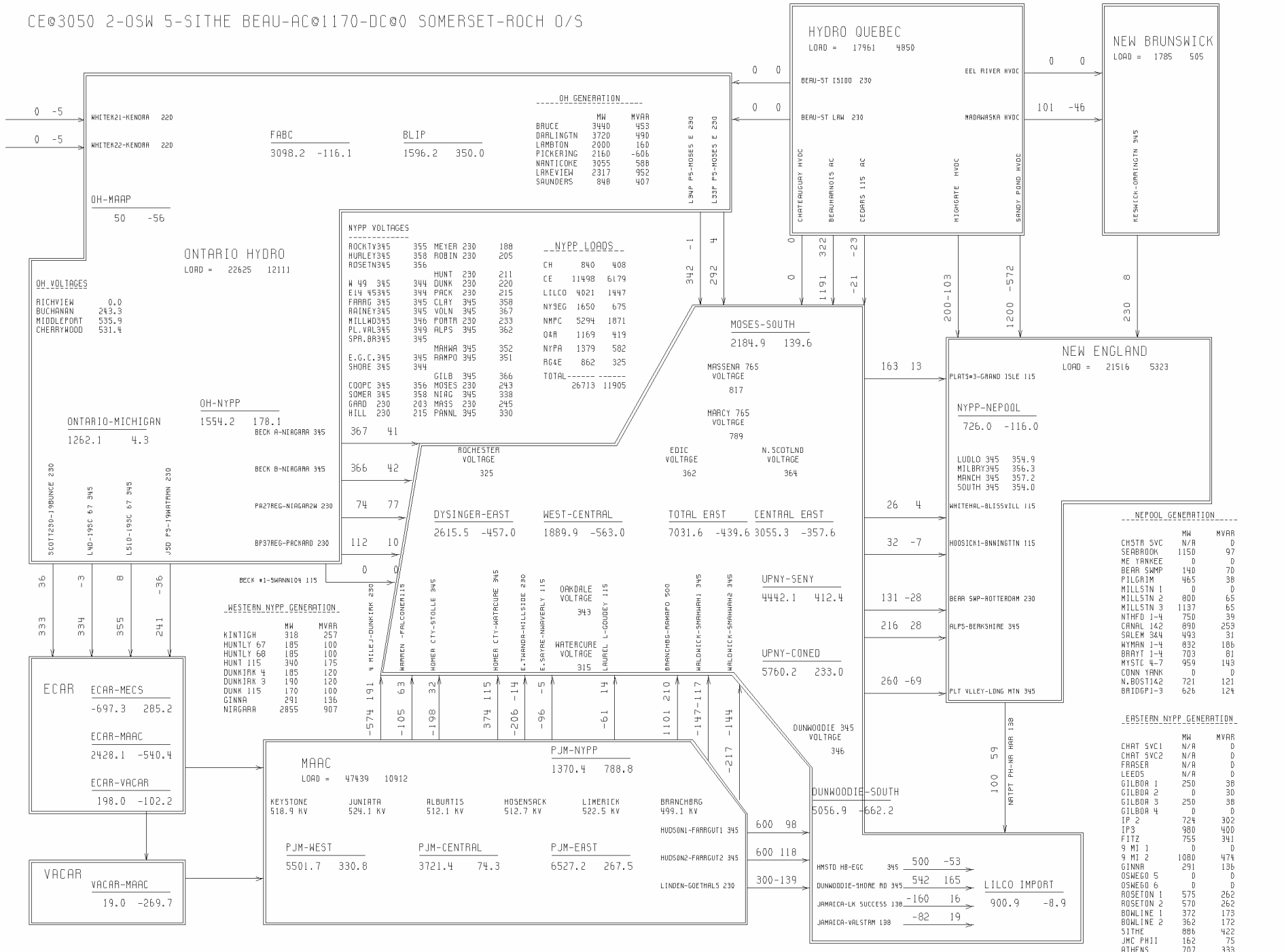


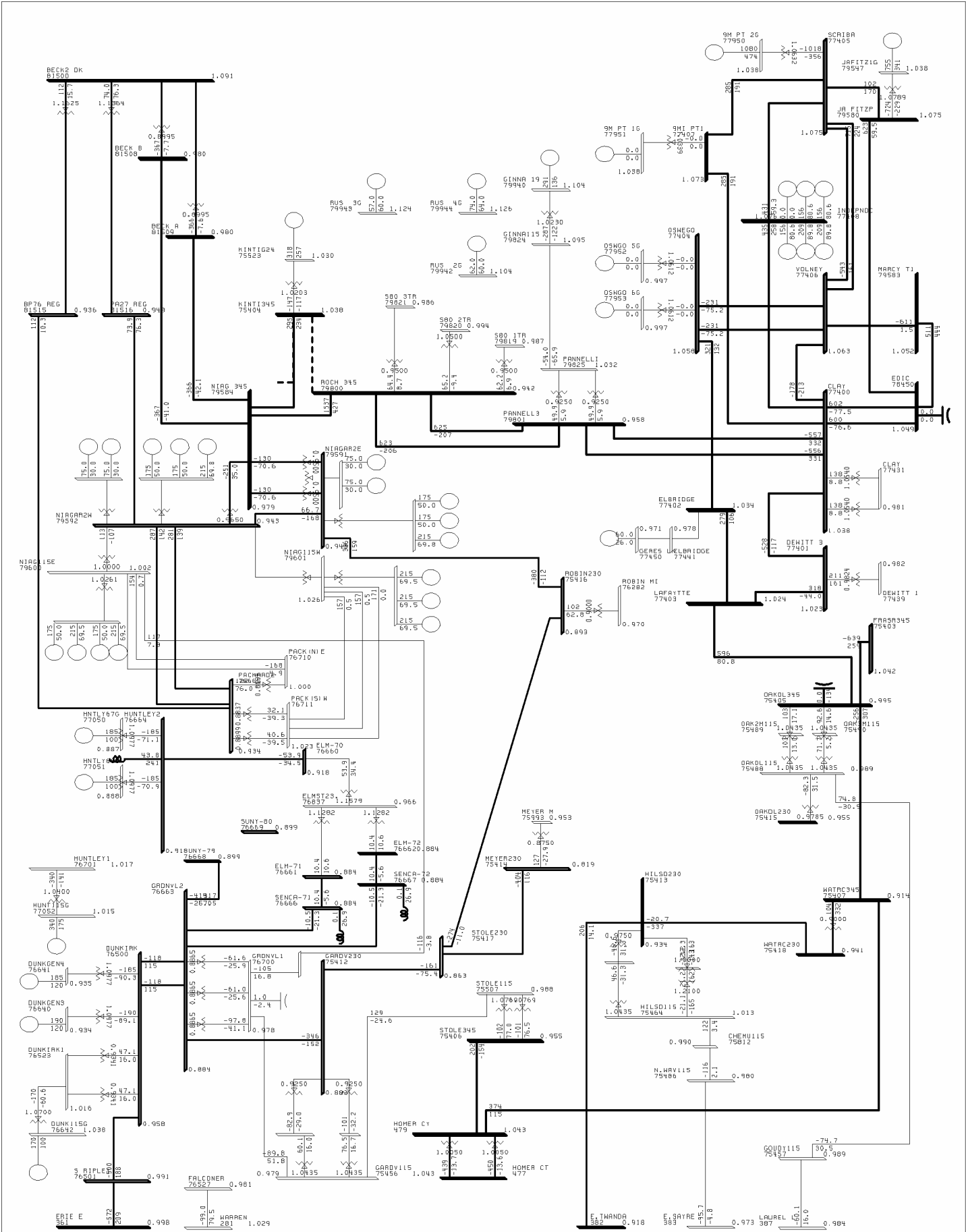




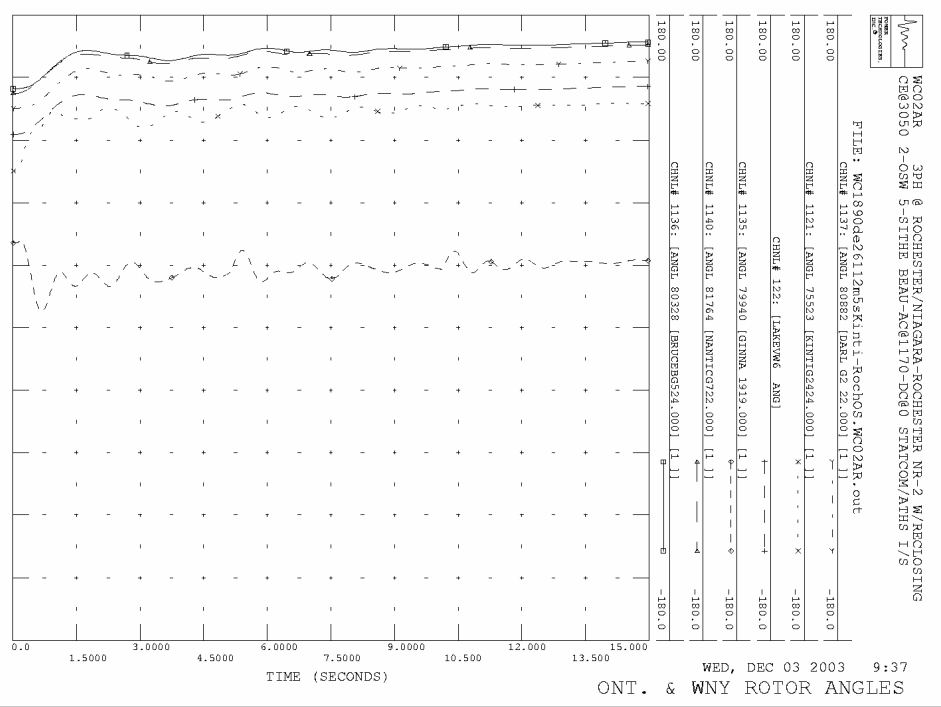
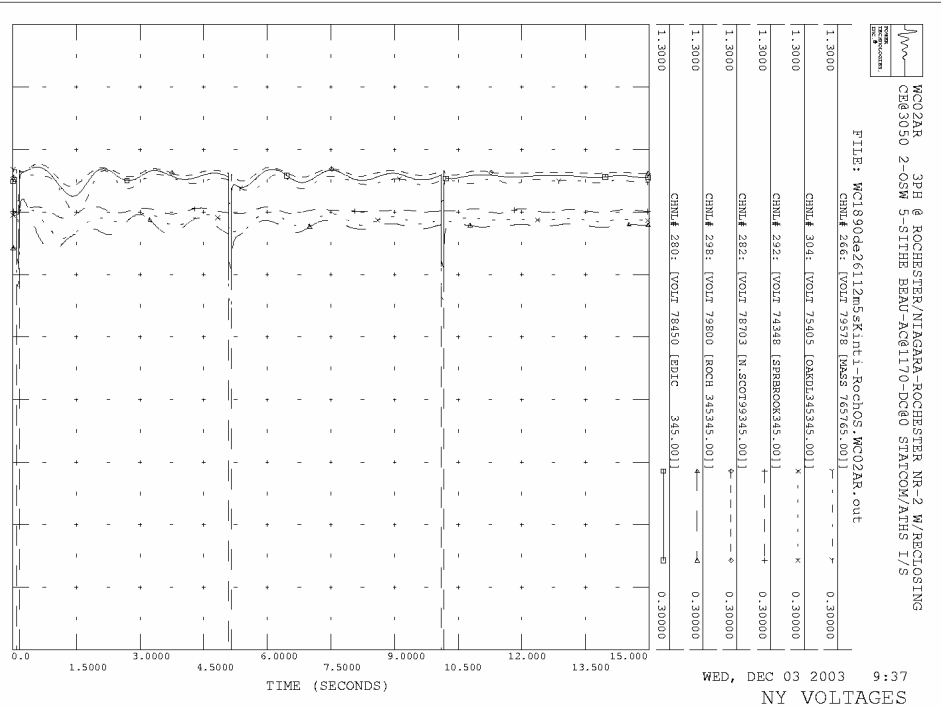
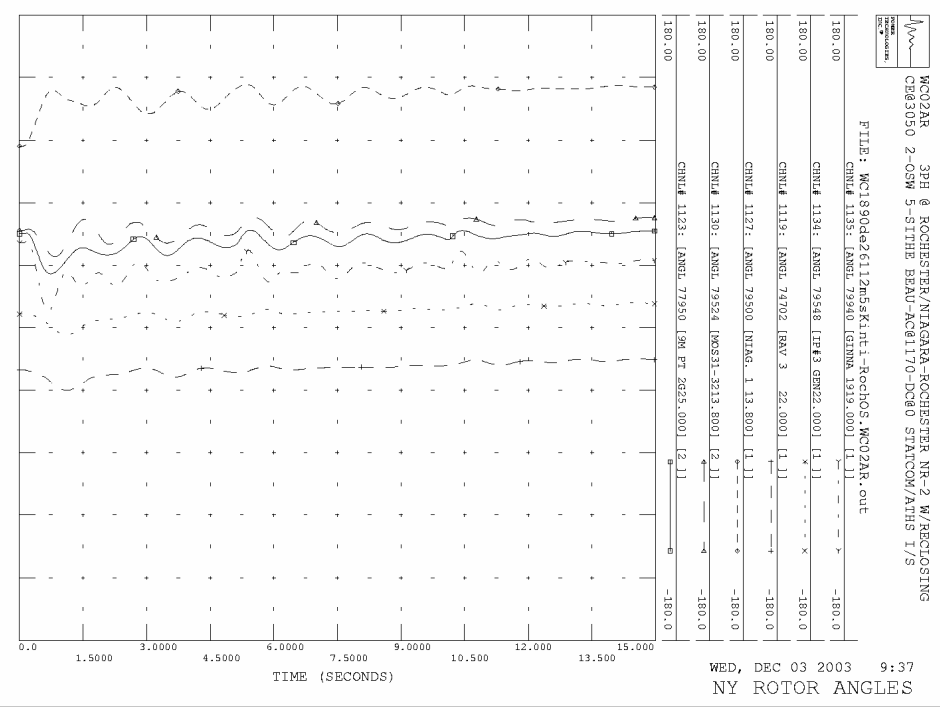
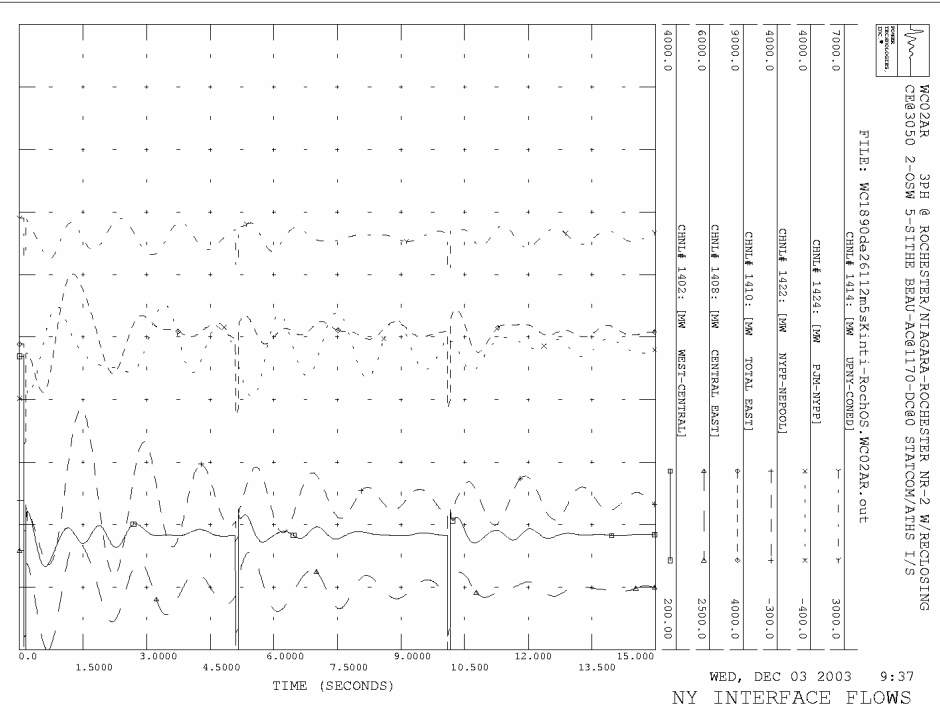


MOPAR5STAT2A.SAV B/O SUMMER MEN/VEM BASE CASE 200MVA STATCON  
 CE@3050 2-OSW 5-SITHE BEAU-AC@1170-DC@0 SOMERSET-ROCH O/S

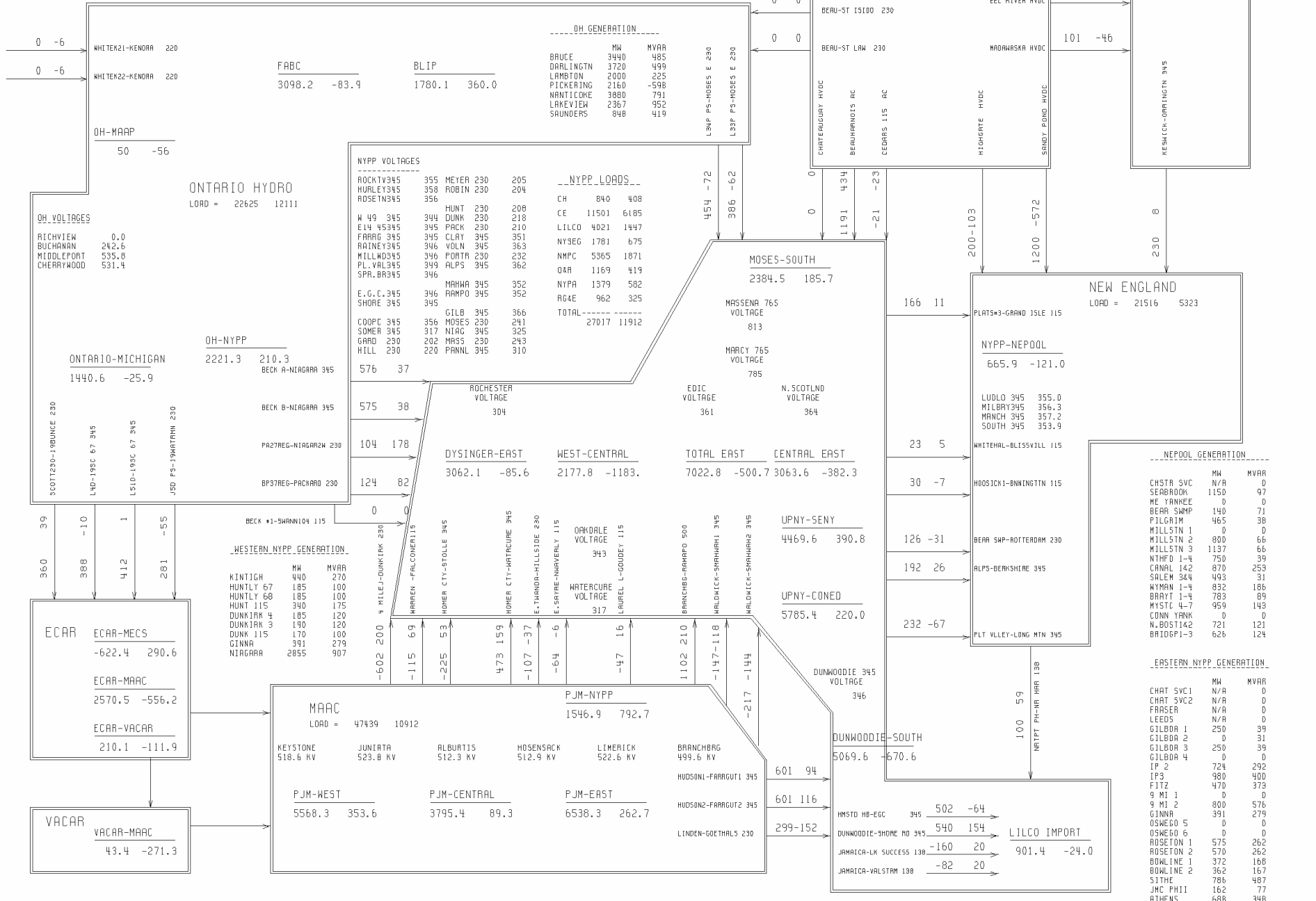






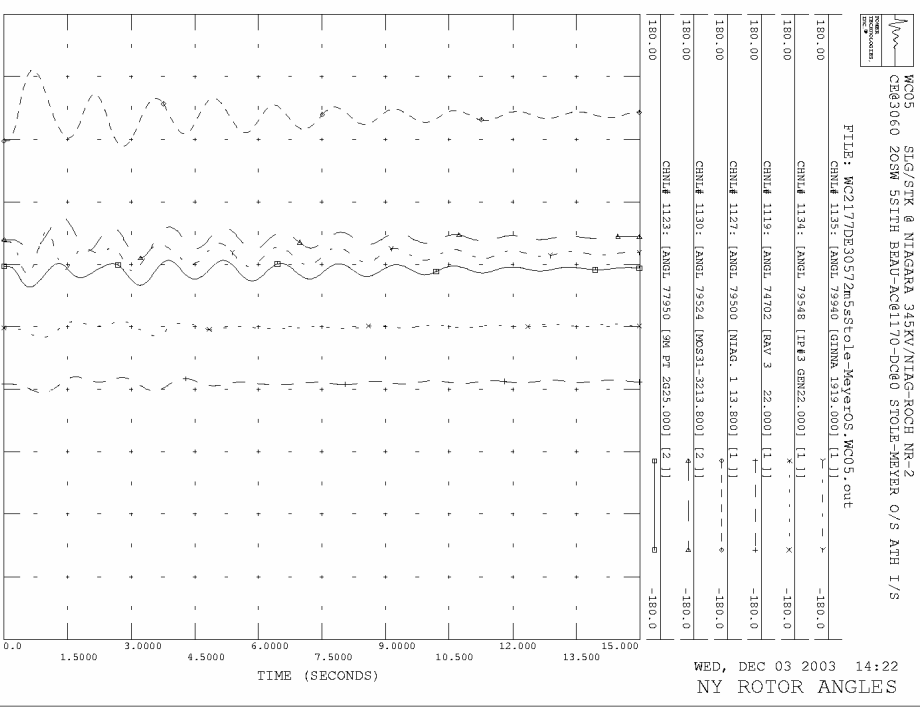
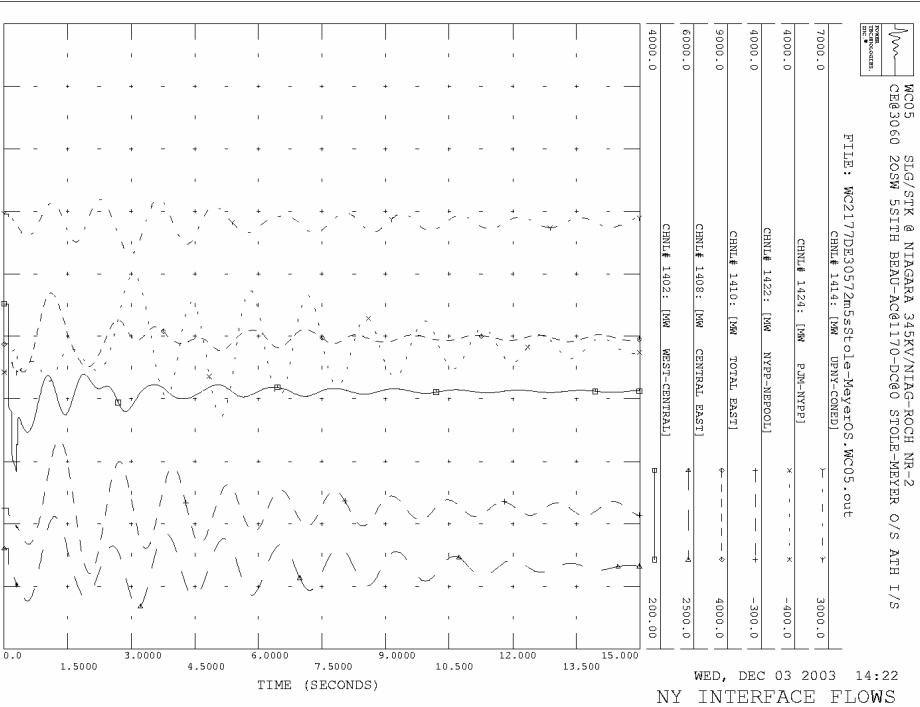
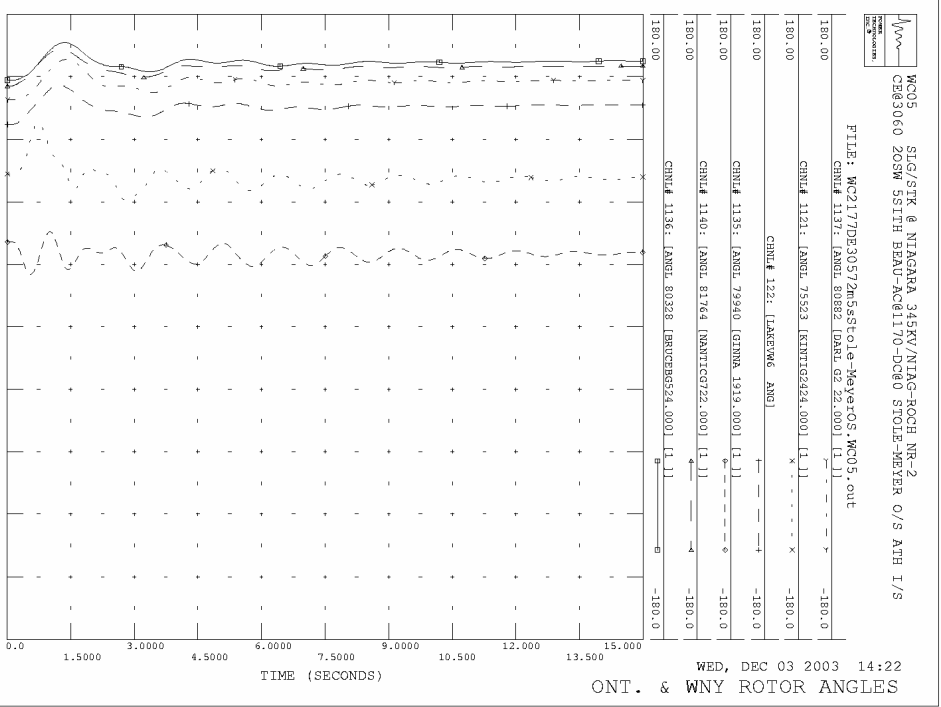
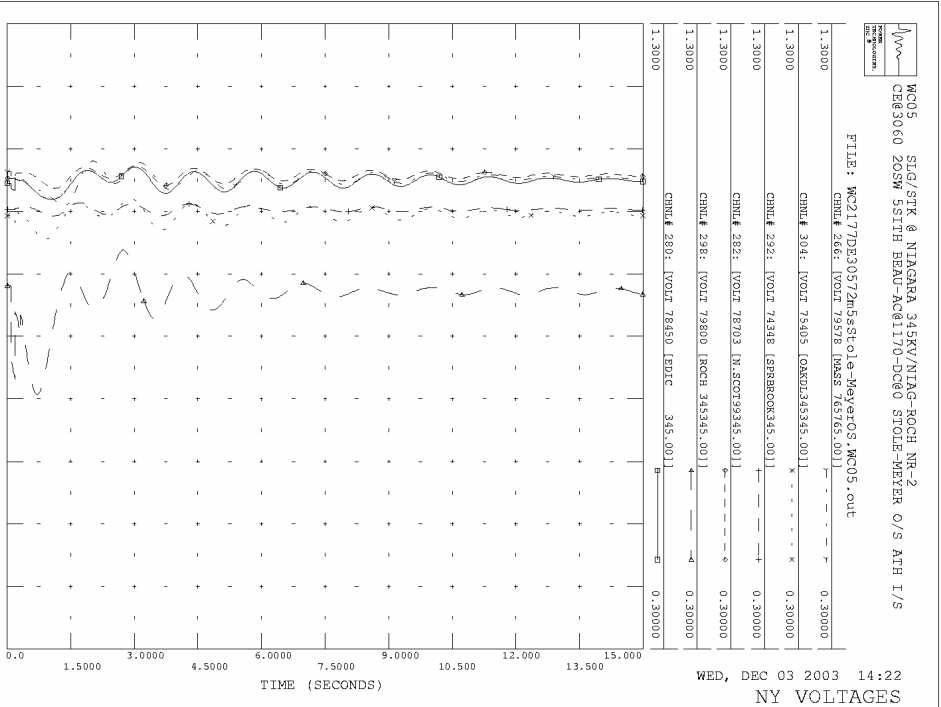


MOPAR5STAT2A.SAV B/O SUMMER MEN/VEM BASE CASE 200MVA STATCON  
 CE@3060 20SW 5SITH BEAU-AC@1170-DC@0 STOLE-MEYER Q/S ATH I/S



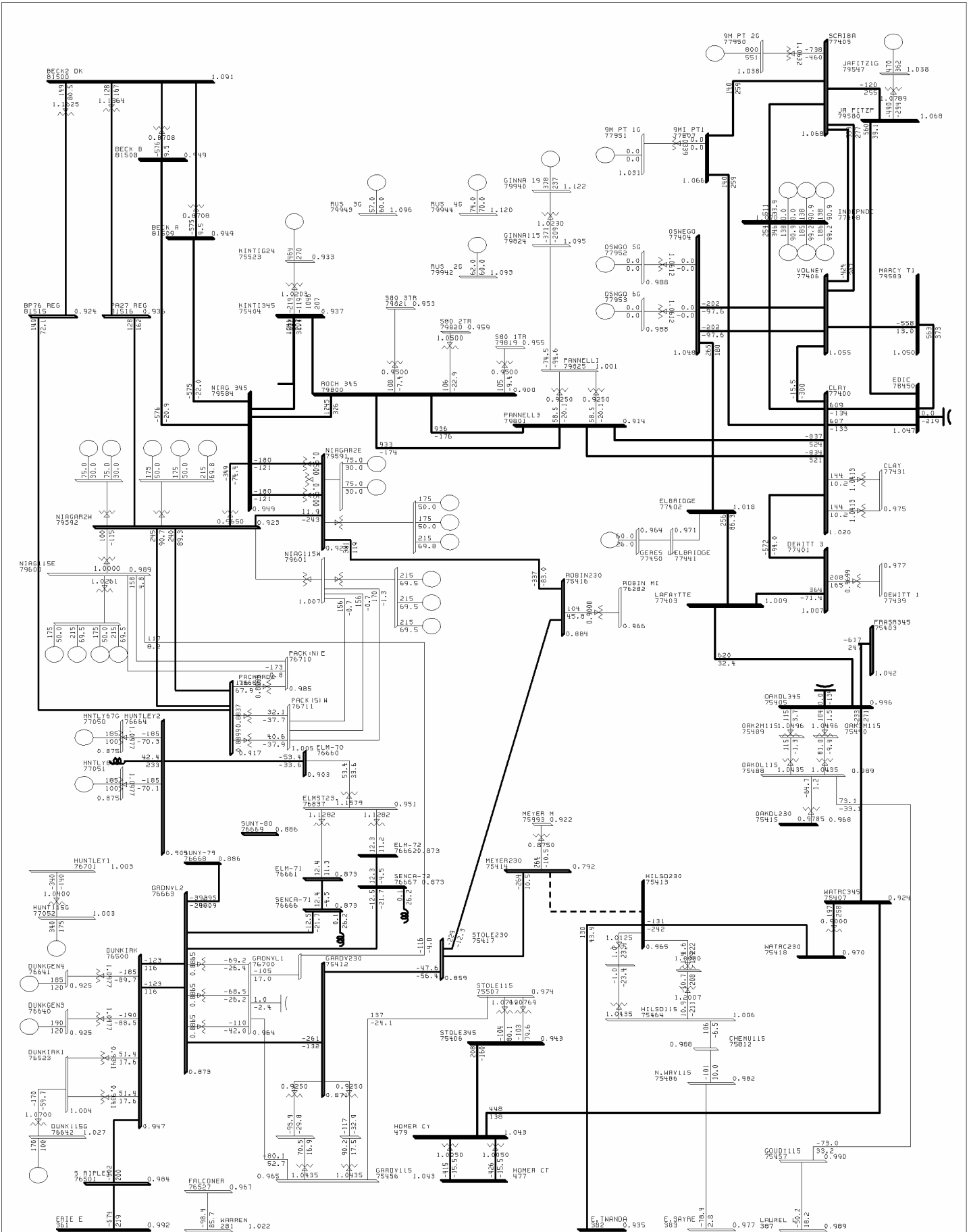




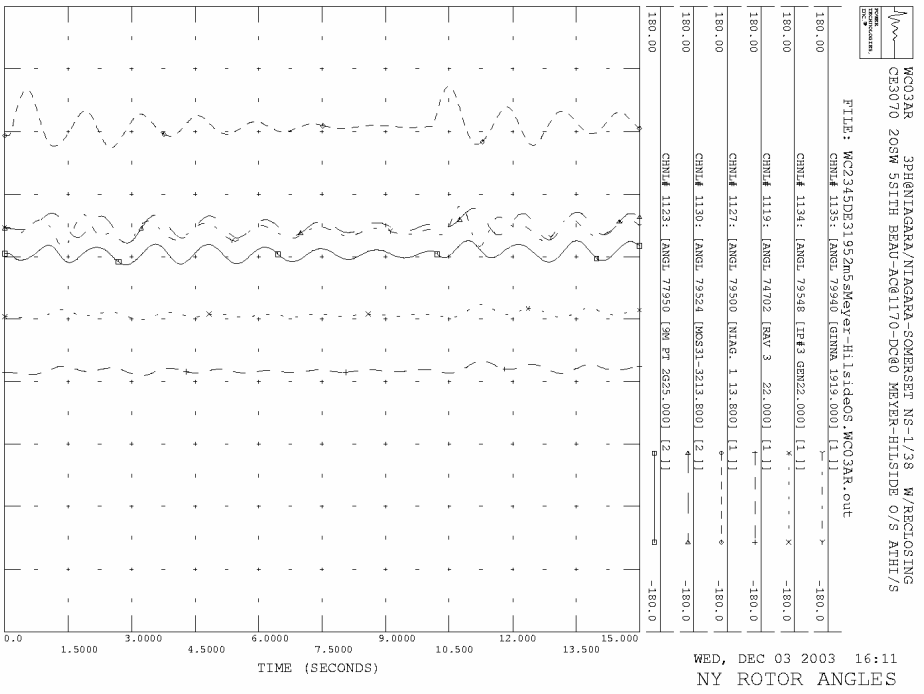
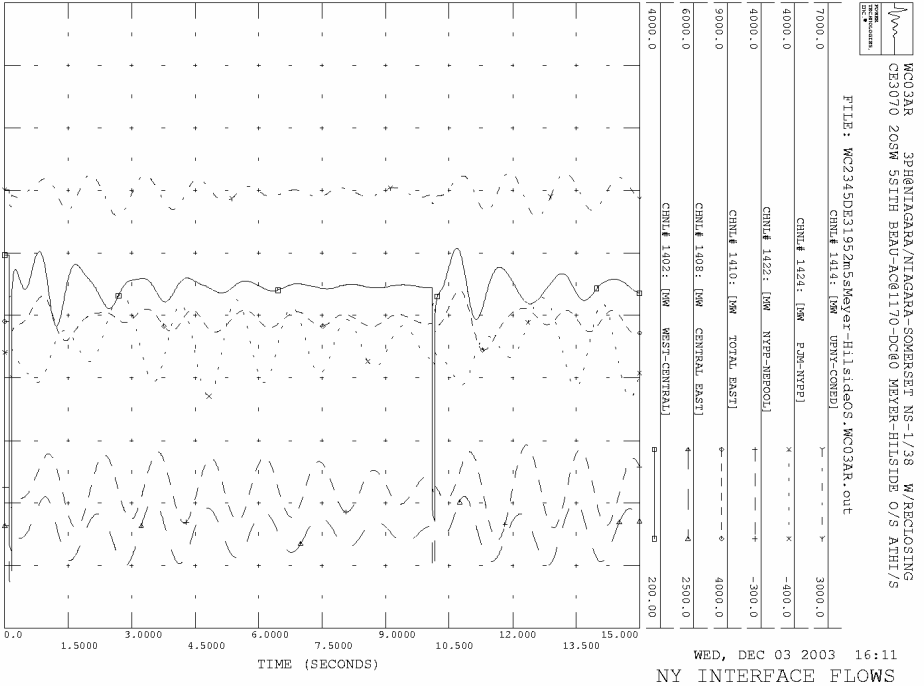
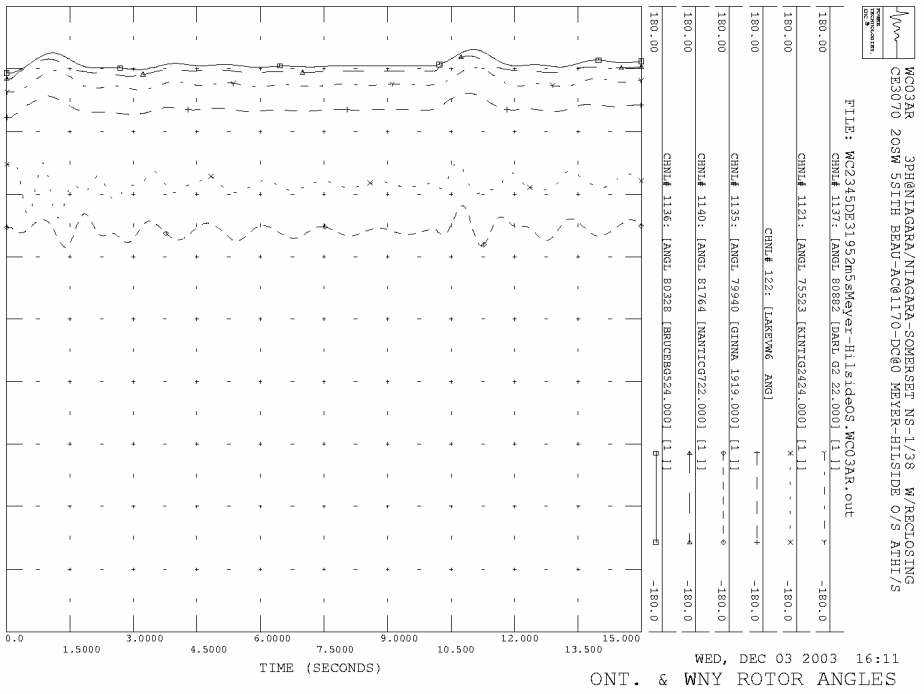
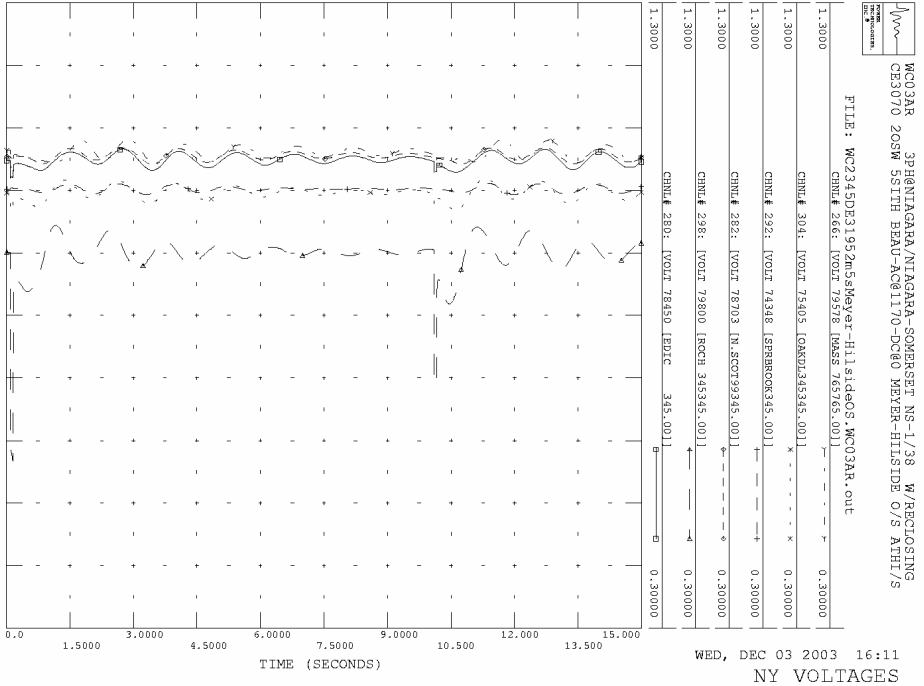










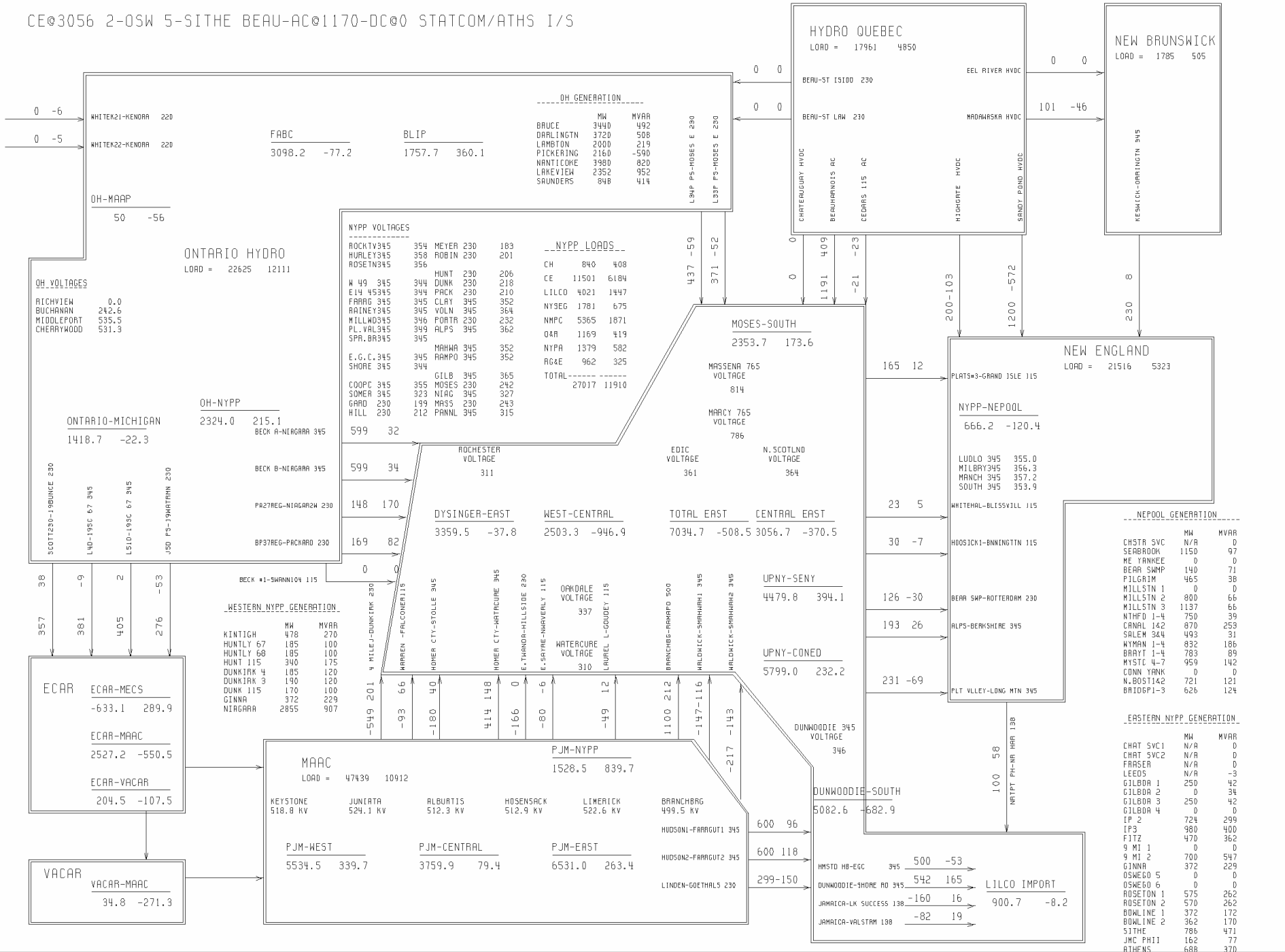


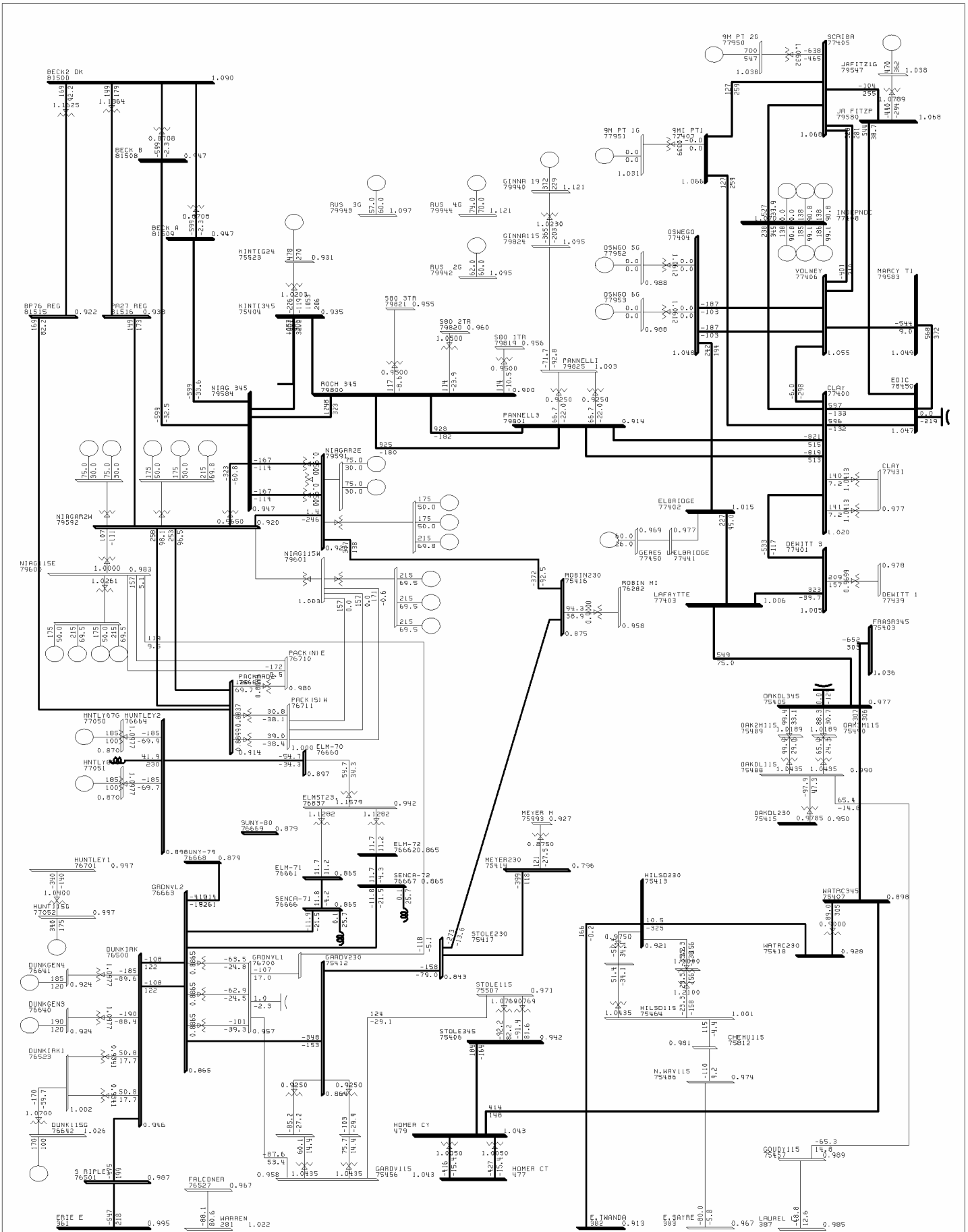
**APPENDIX E**  
(Dynamic Simulation Plots)

**WEST CENTRAL ALL LINES I/S AND LINE OUTAGES**

West Central All Lines I/S  
Niagara - Rochester (NR-2) O/S  
Somerset – Rochester (SR-1) O/S

MOPAR5STAT2A.SAV B/O SUMMER MEN/DEM BASE CASE 200MVA STATCON  
 CE@3056 2-OSW 5-SITHE BEAU-AC@1170-DC@0 STATCOM/ATHS I/S



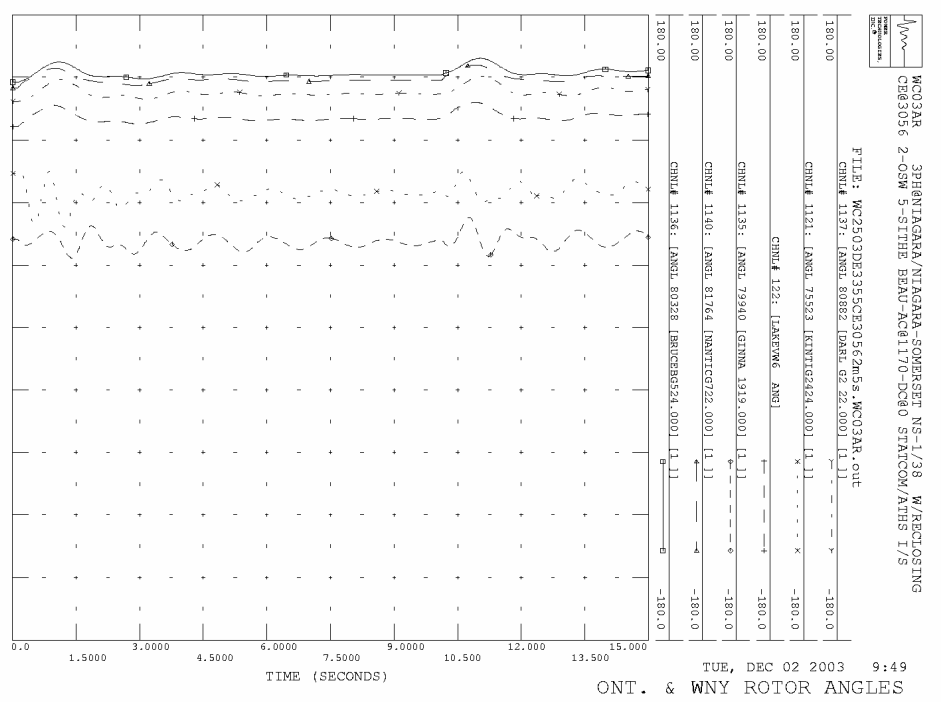
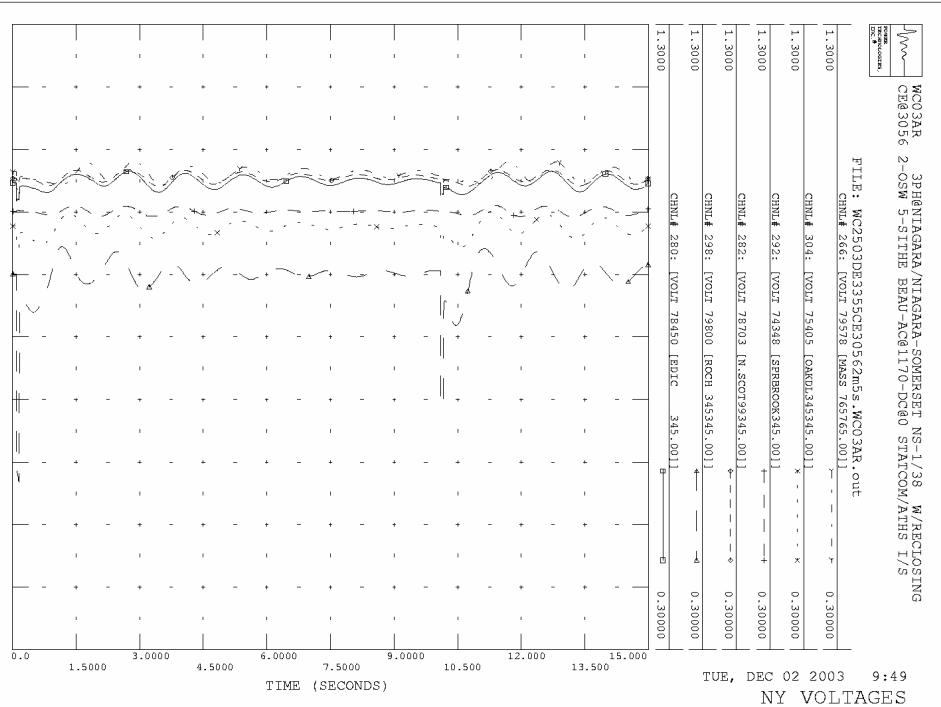
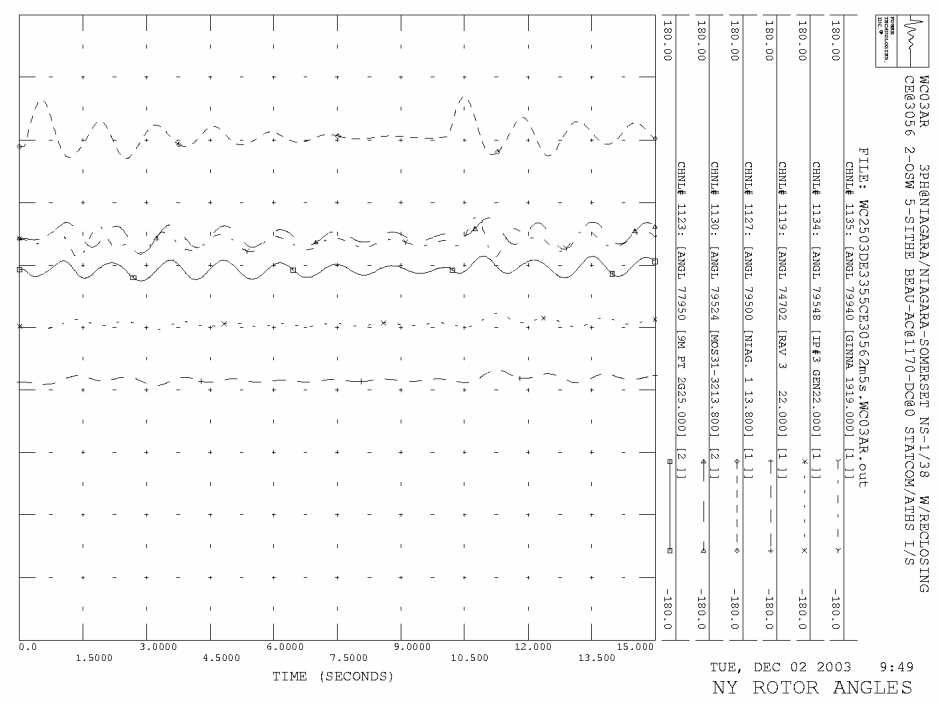
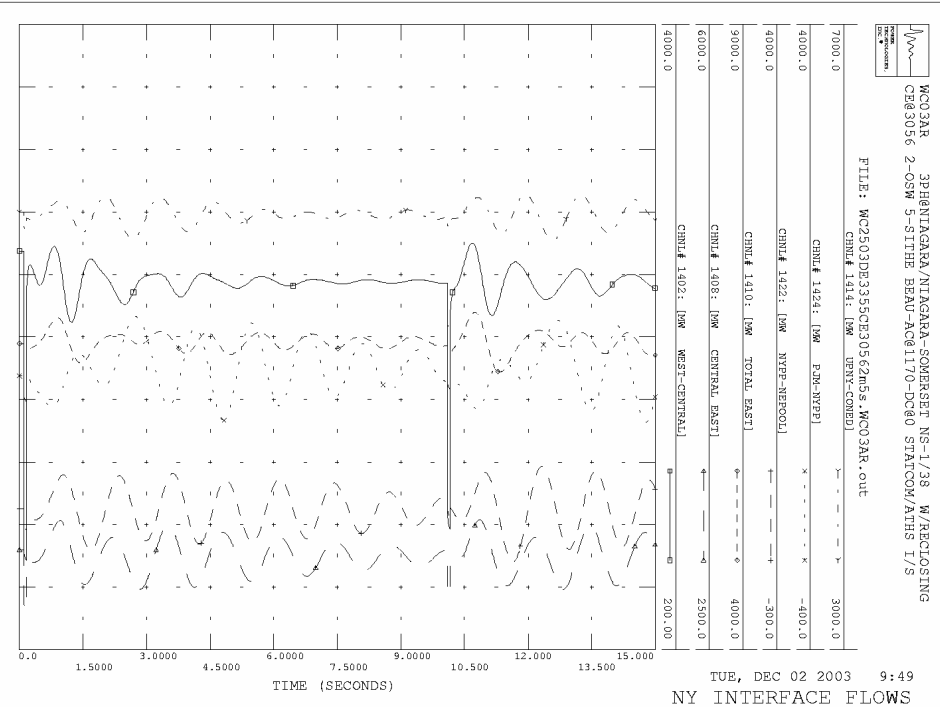


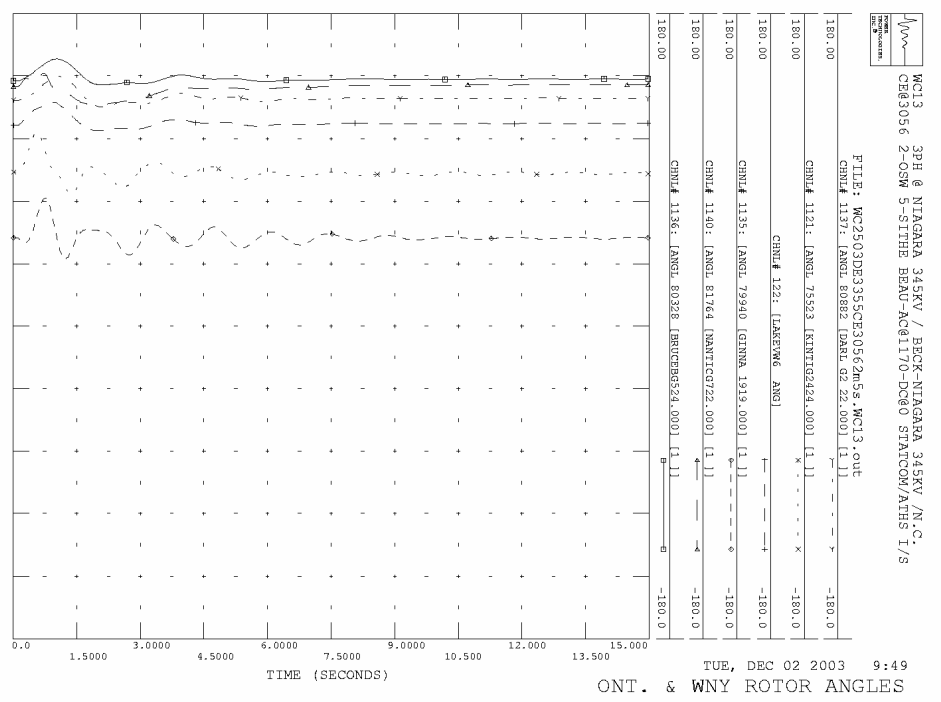
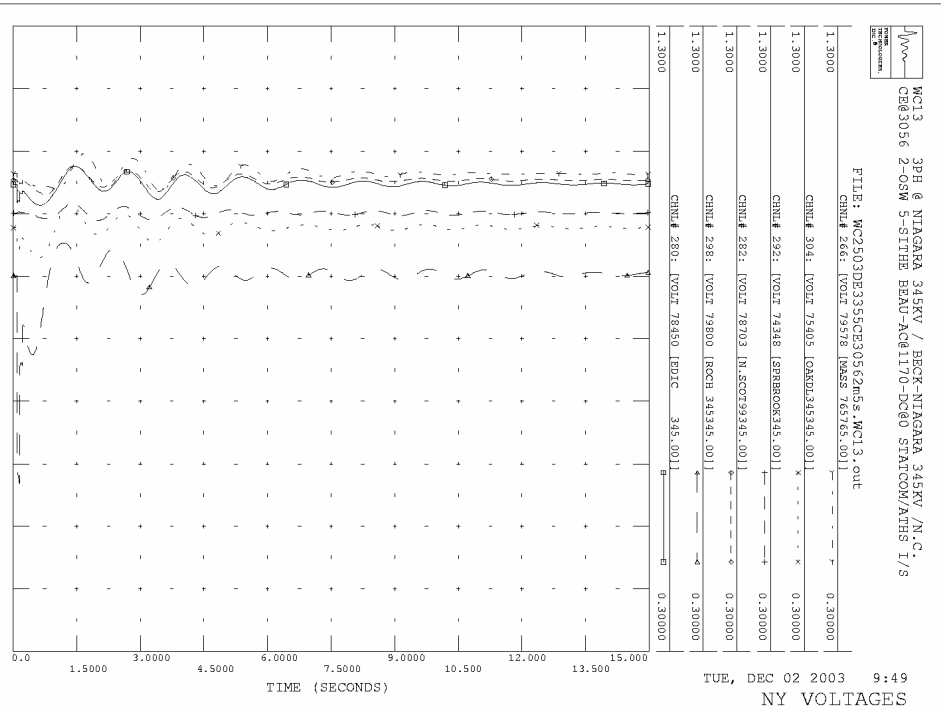
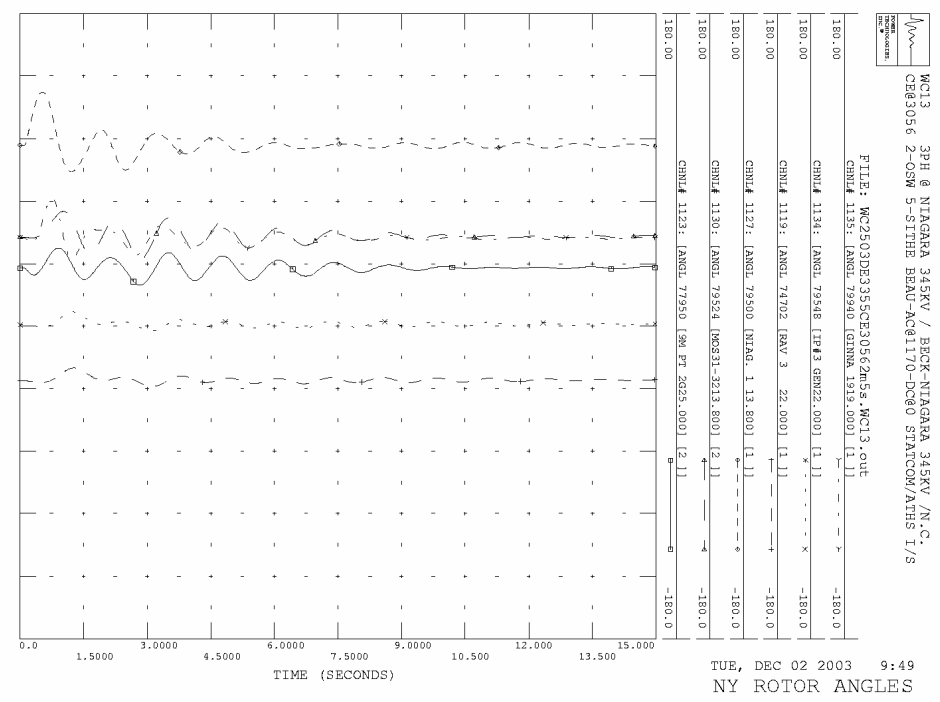
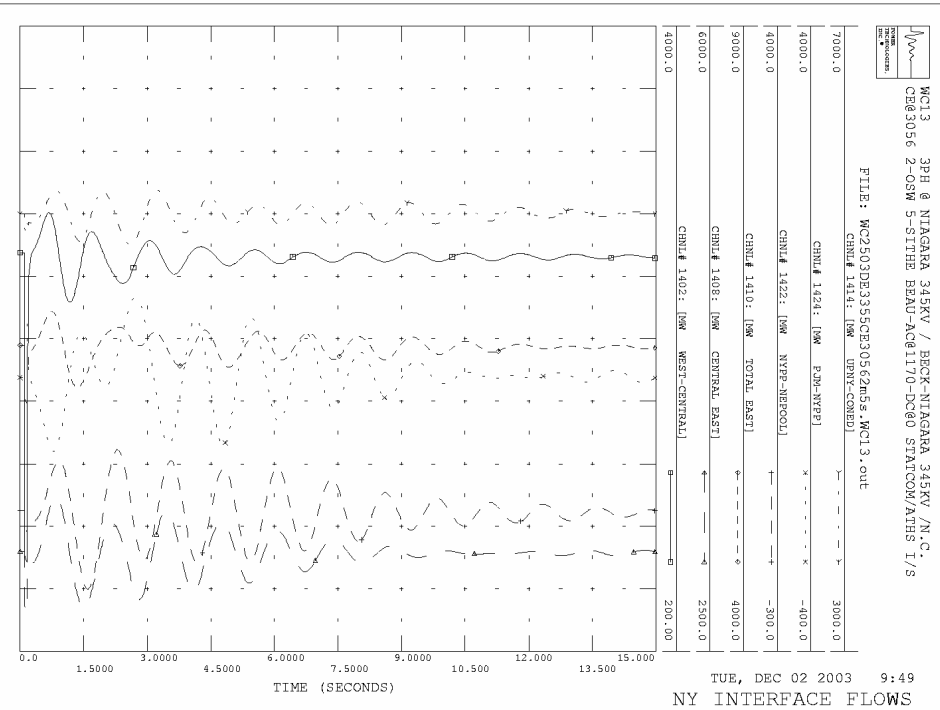
MOPAR5STAT2A.SAV B/O SUMMER MEN/VEM BASE CASE 200MVA STATION  
 CE@3056 2-OSW 5-SITHE BEAU-AC@1170-DC@0 STATCOM/ATHS I/S  
 1) DYSINGER ALL LINES I/S TUE, DEC 02 2003 9:18

KV: s138 .4290 .4345

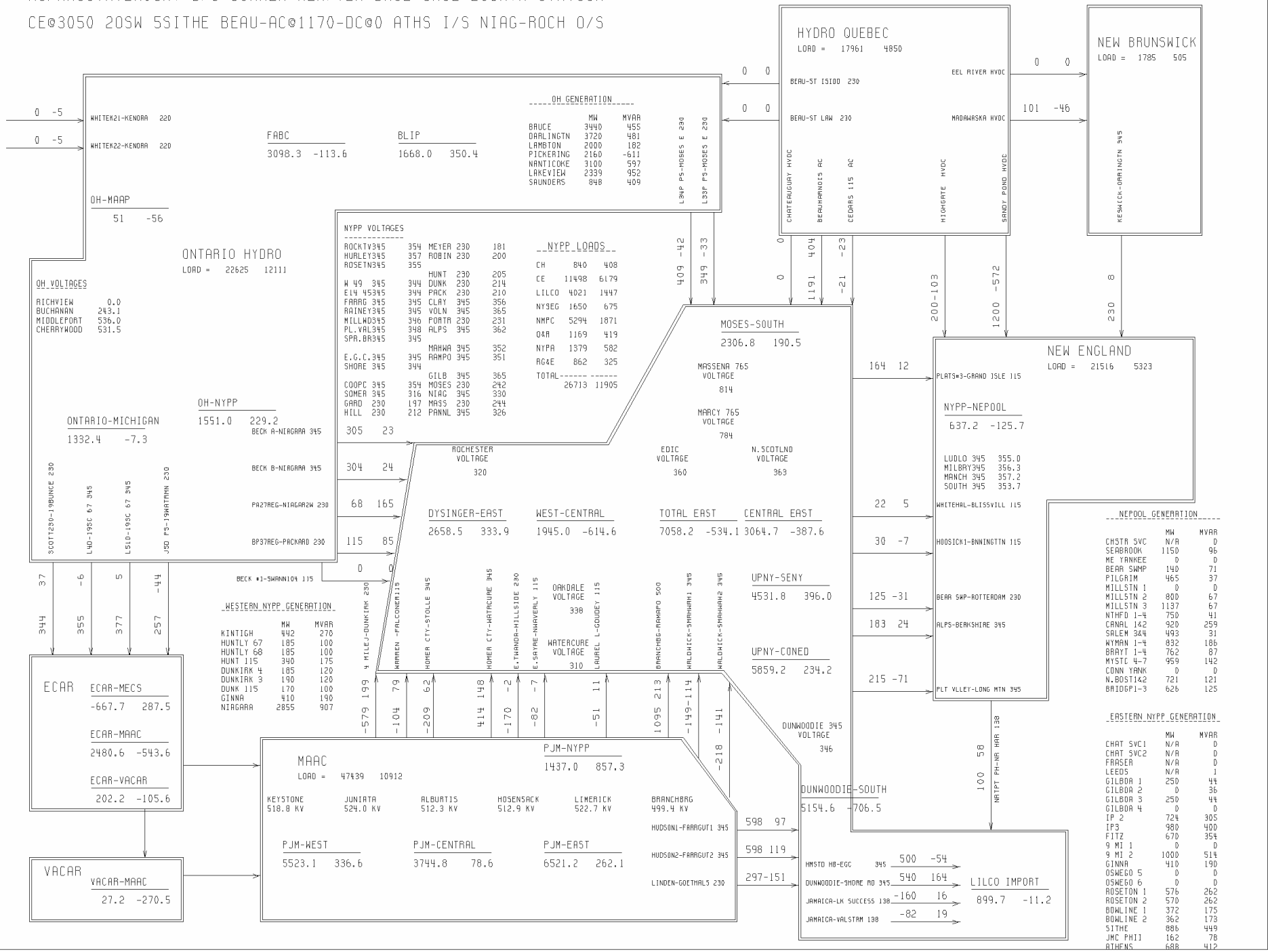
BUS - VOLTAGE (PU)  
 BRANCH - MW/MVAR  
 EQUIPMENT - MW/MVAR







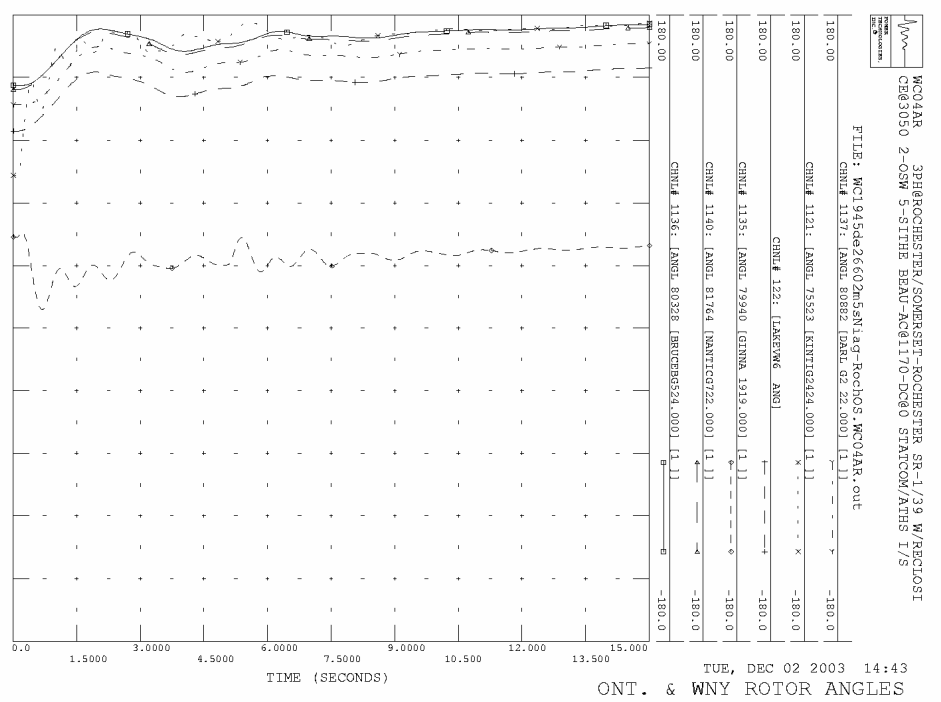
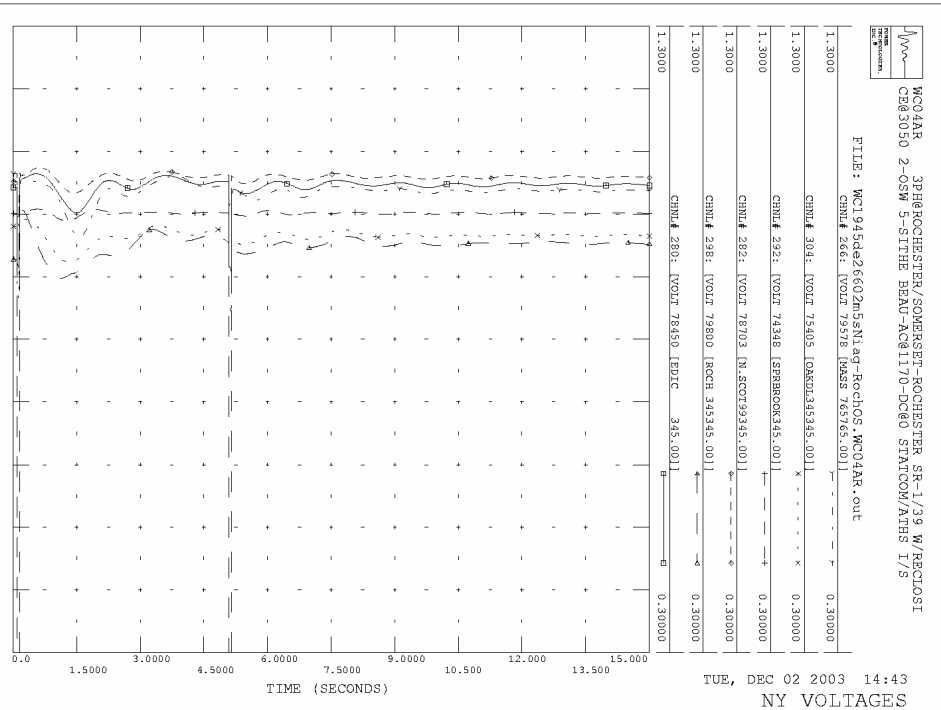
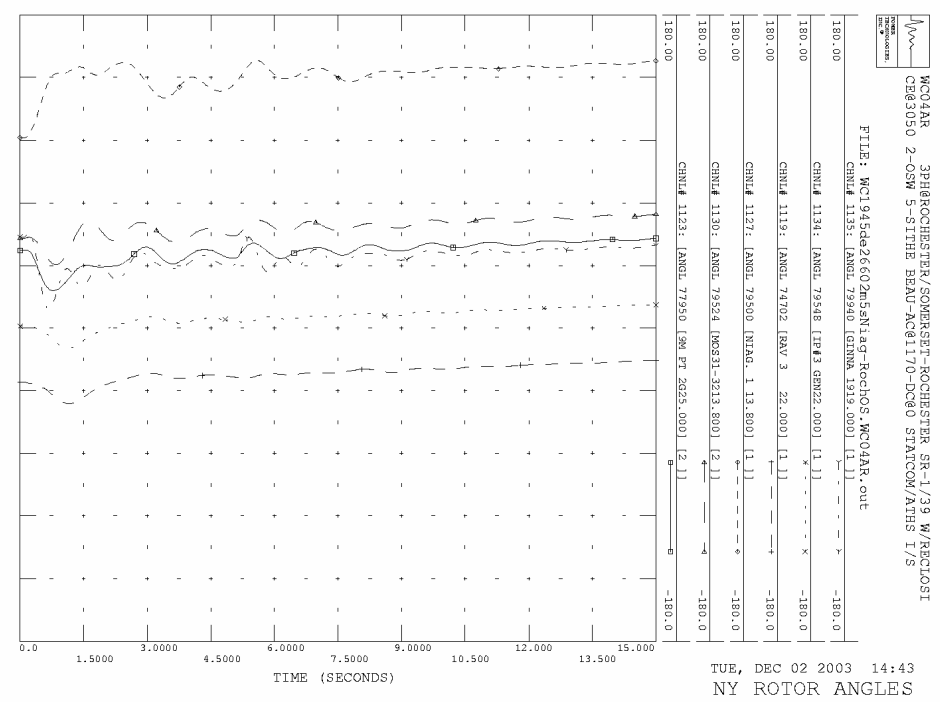
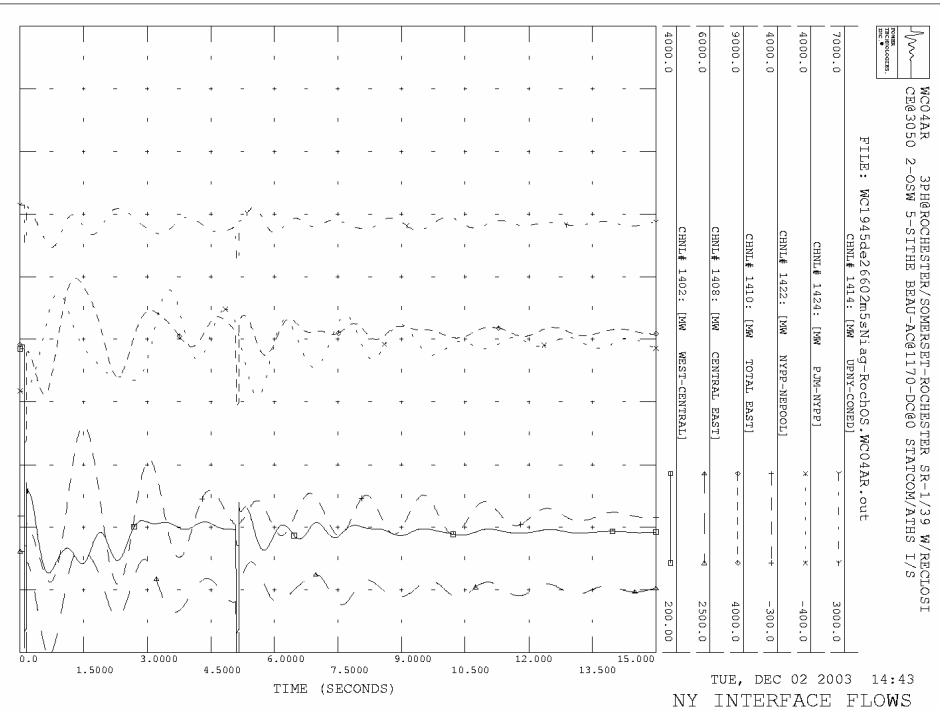
MOPAR5STAT2A.SAV B/O SUMMER MEN/VEM BASE CASE 200MVA STATCON  
 CE@3050 20SW 55ITHE BEAU-AC@1170-DC@0 ATHS I/S NIAG-ROCH O/S



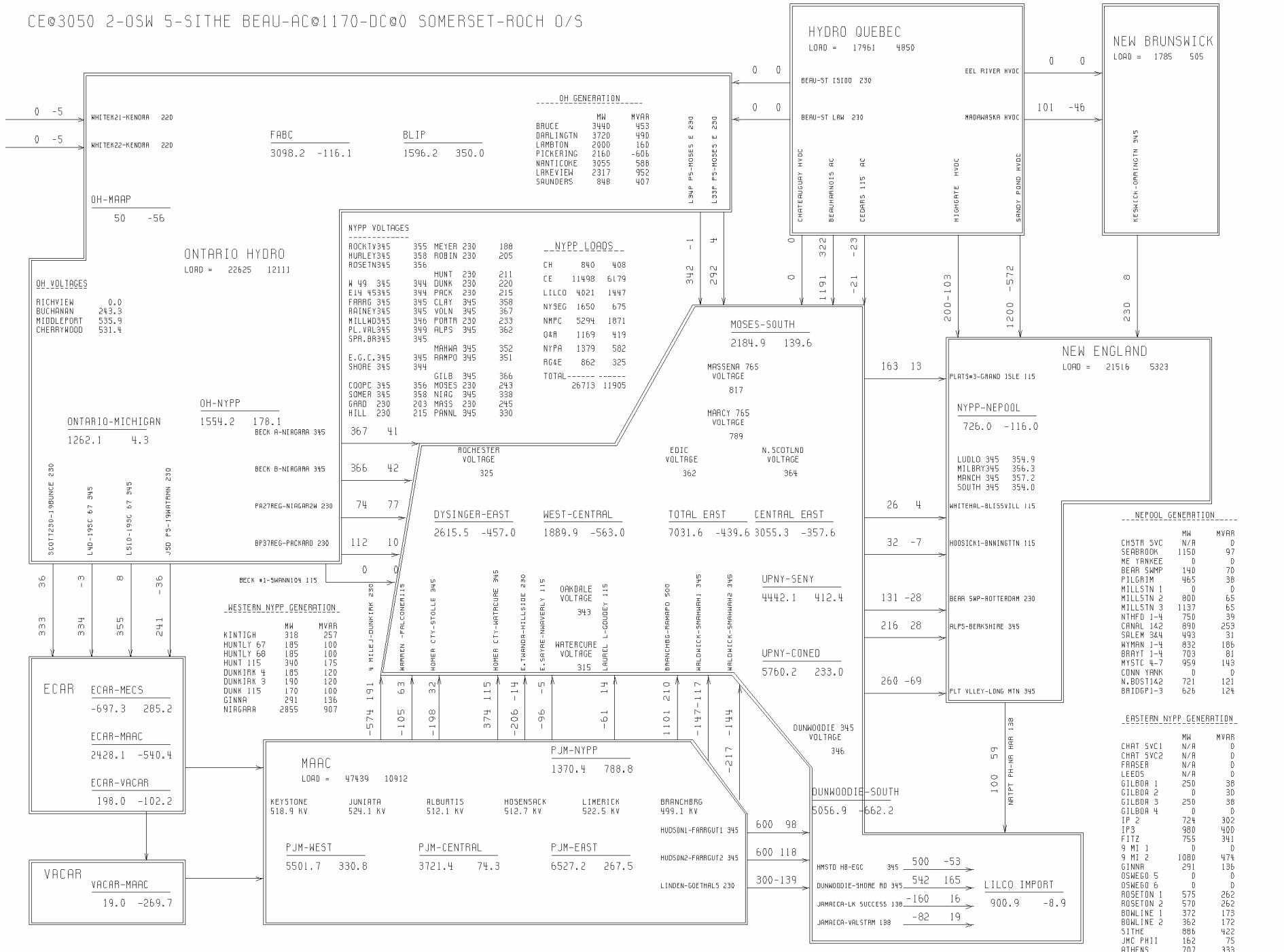




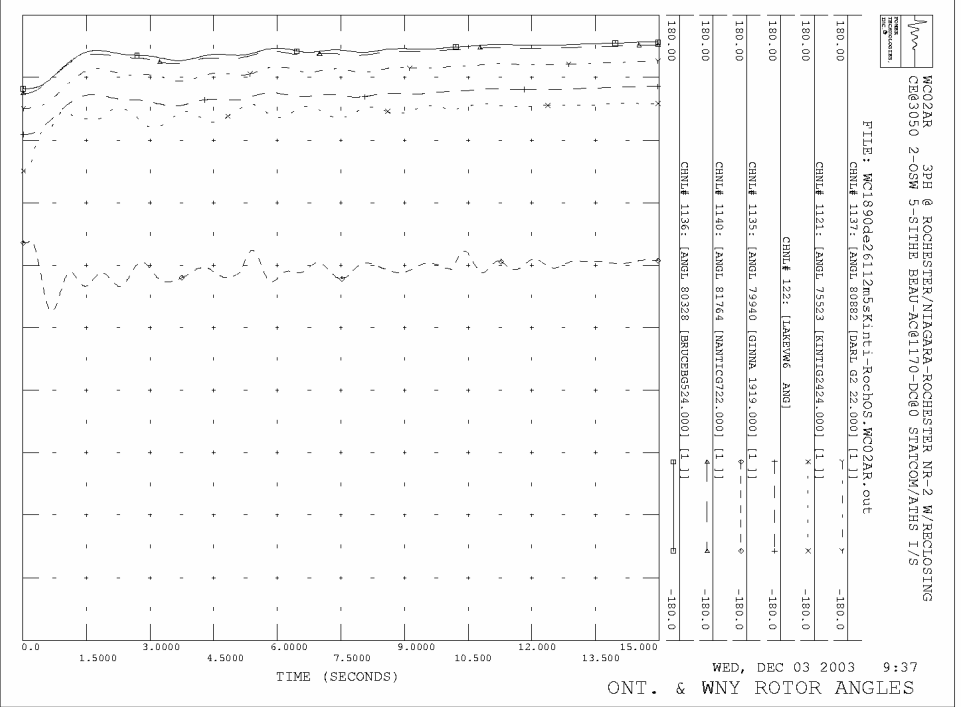
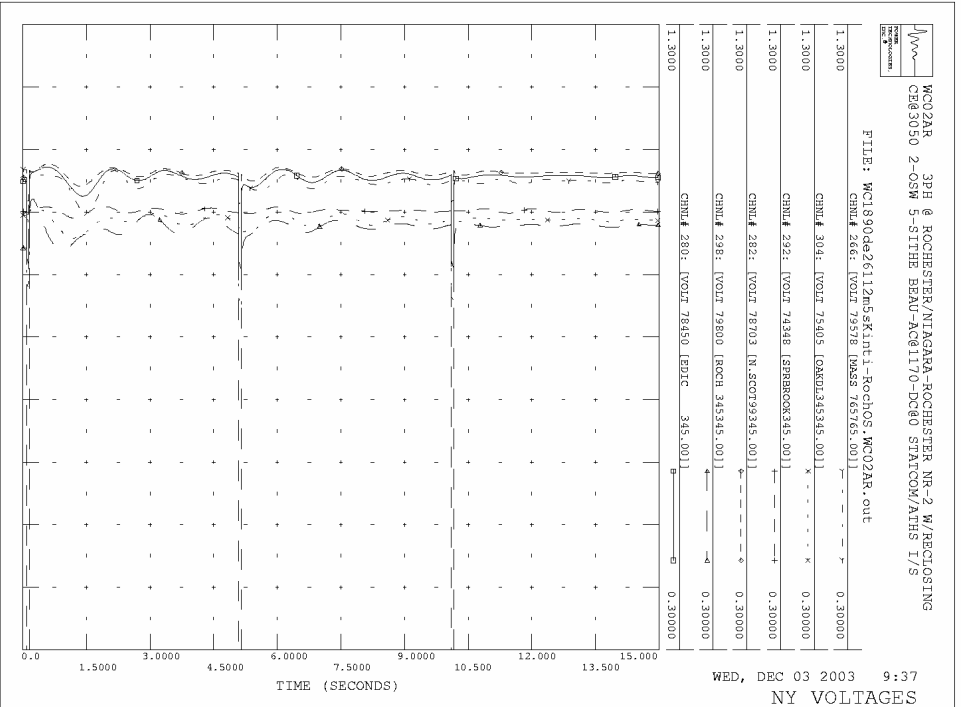
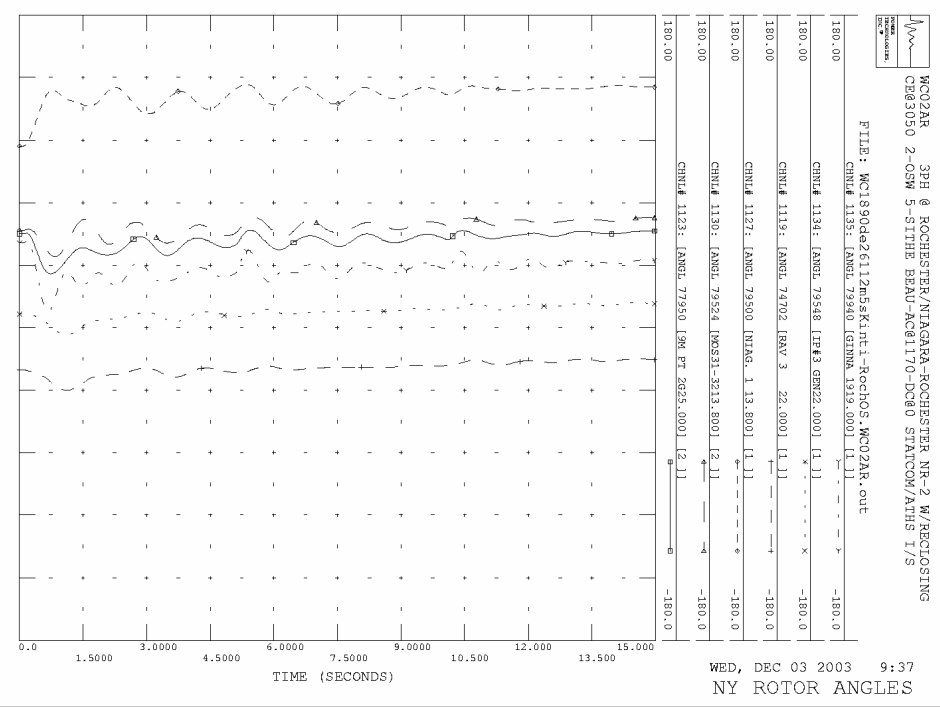
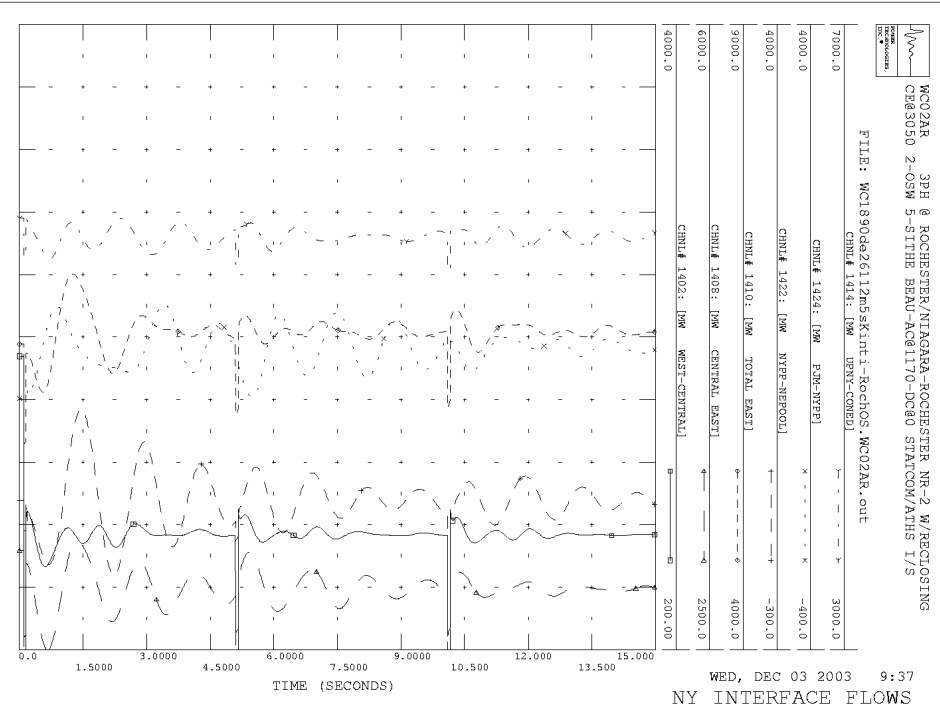


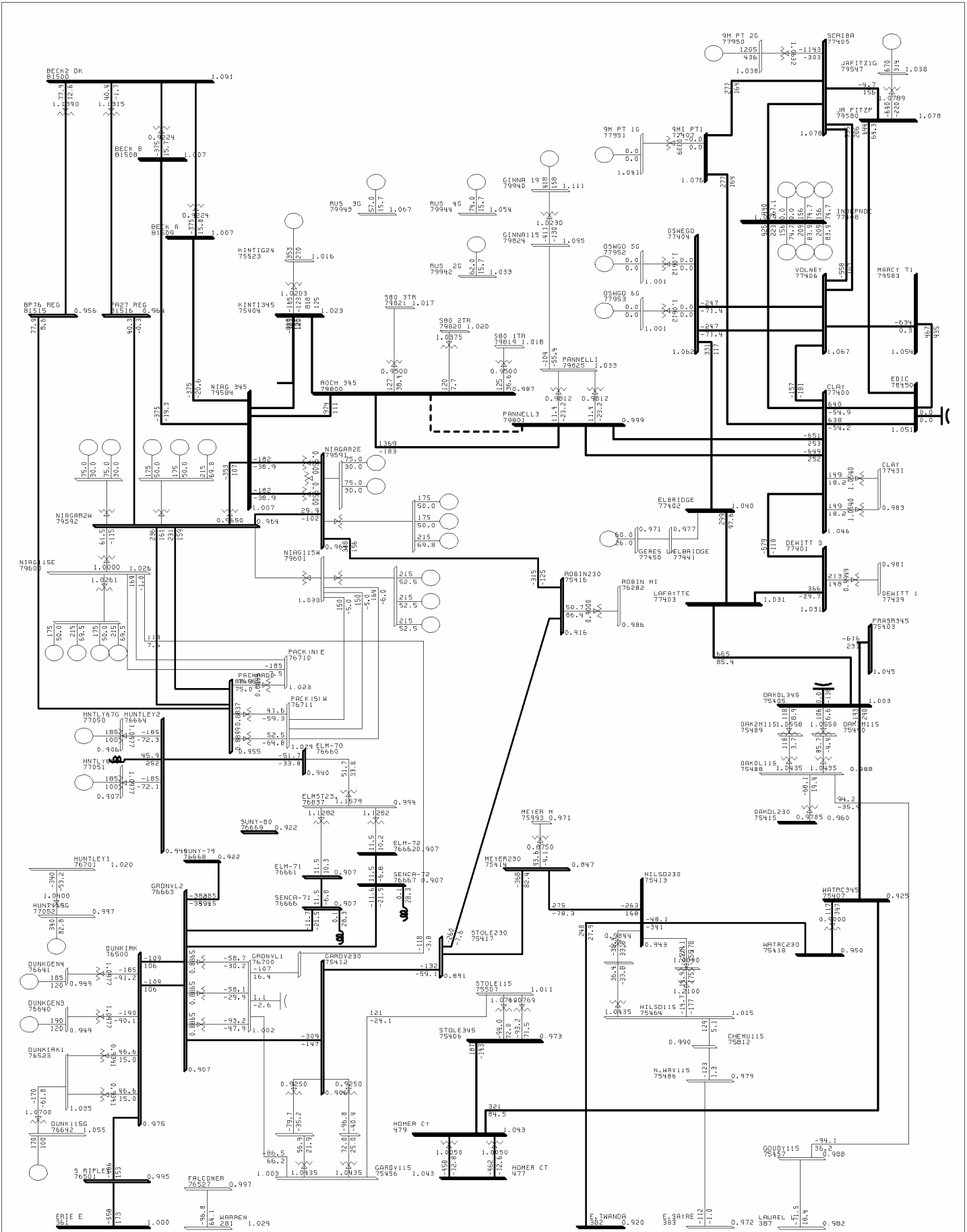


MOPAR5STAT2A.SAV B/O SUMMER MEN/VEM BASE CASE 200MVA STATCON  
 CE@3050 2-OSW 5-SITHE BEAU-AC@1170-DC@0 SOMERSET-ROCH O/S









MOPAR5STAT2A.SAV B/O SUMMER MEN/VEH BASE CASE 200MVA STATCON  
 CE@3050 2-OSW 5-SITHE BEAU-AC@1170-DC@0 STATCOM/ATHS I/S  
 1) ROCHESTER-PANNL O/S MON, MAR 08 2004 8:44

BUS - VOLTAGE (PU)  
 BRANCH - MW/MVAR  
 EQUIPMENT - MW/MVAR  
 KV: <math>\leq 138</math> .4230 .4345

