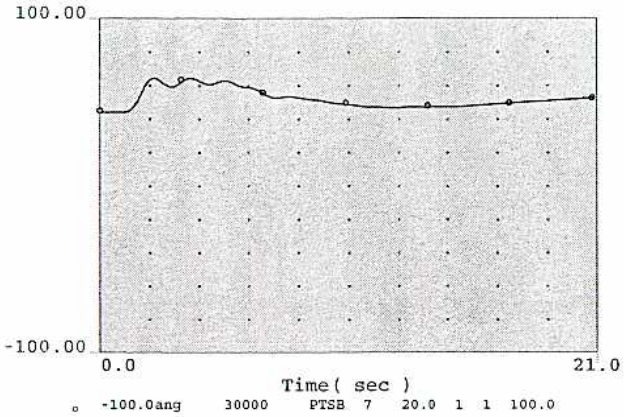
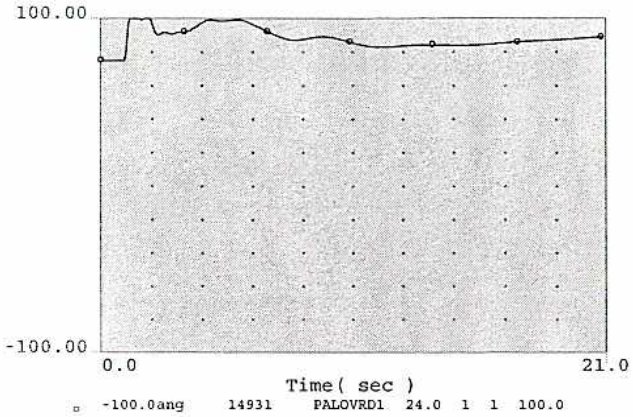
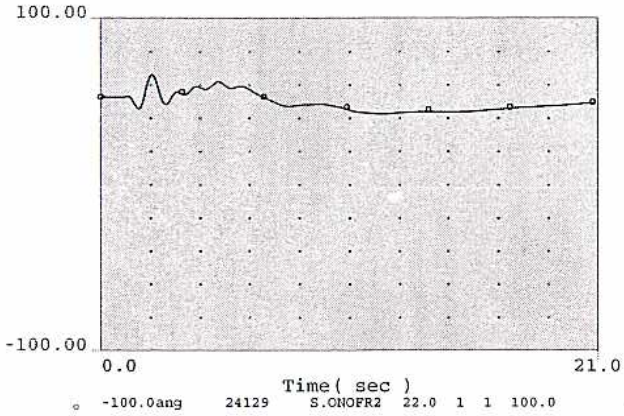
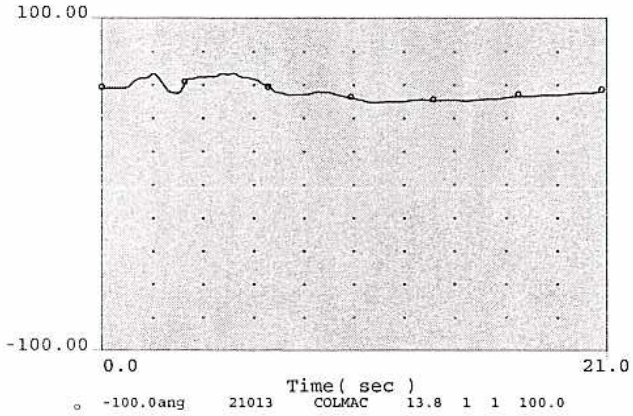
Off-Peak Load Contingency Simulations

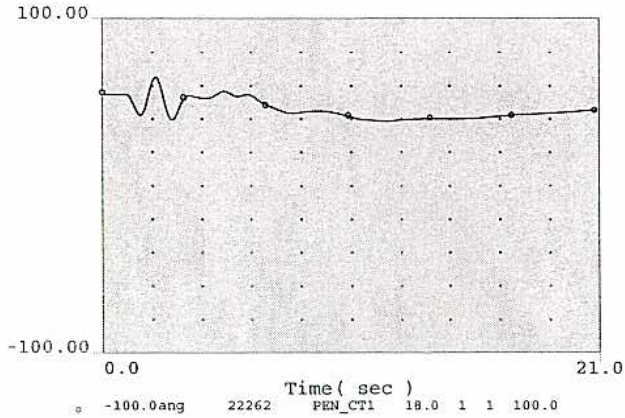
20 Second Run Time

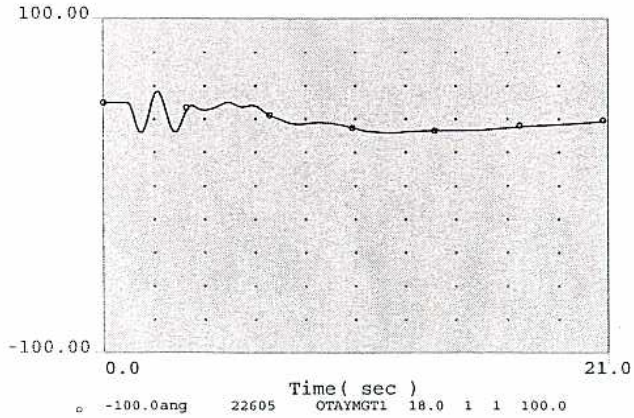




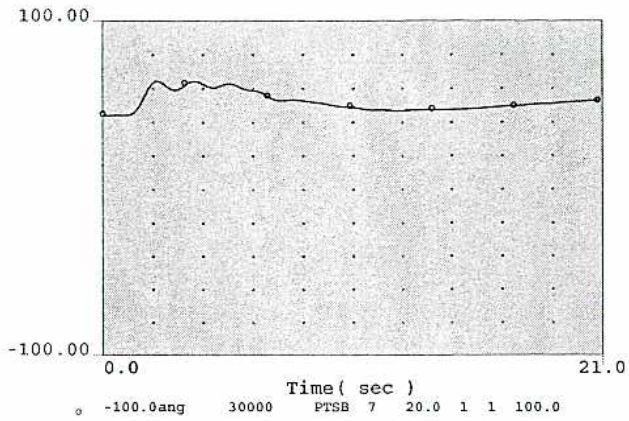


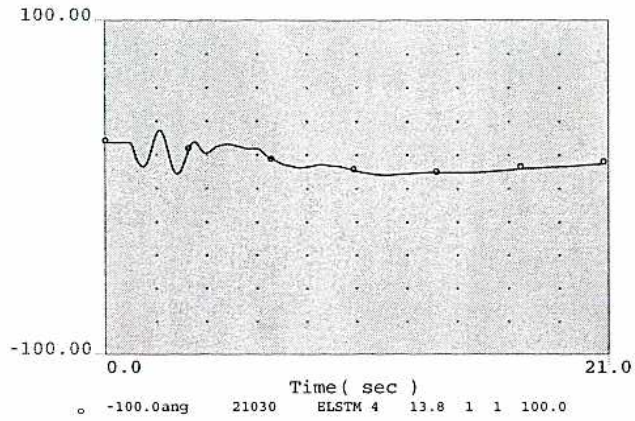


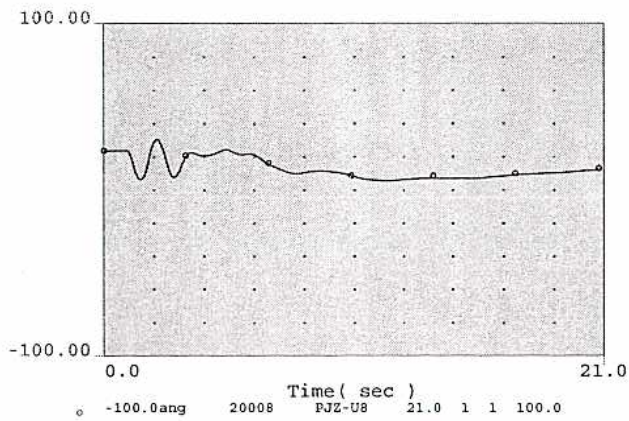


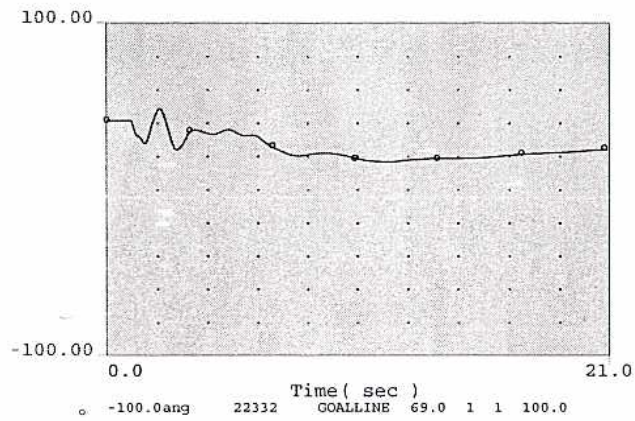


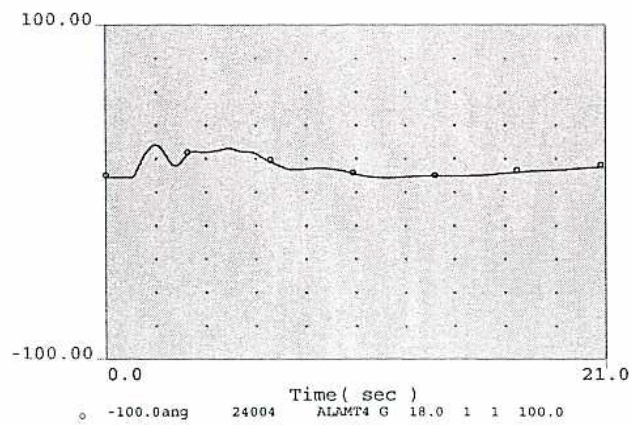
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's

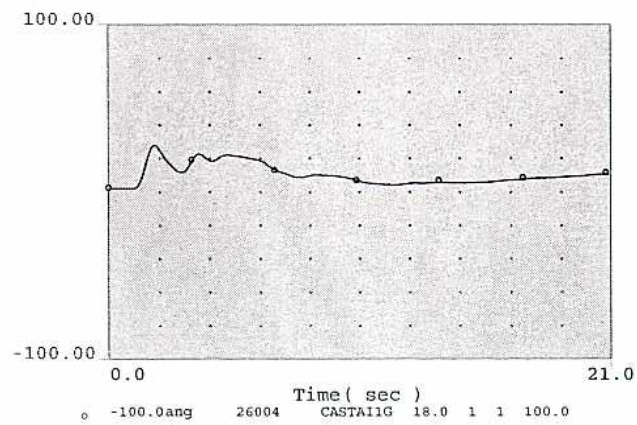




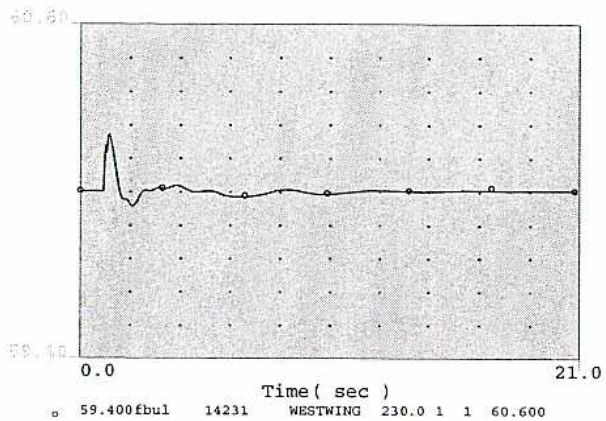


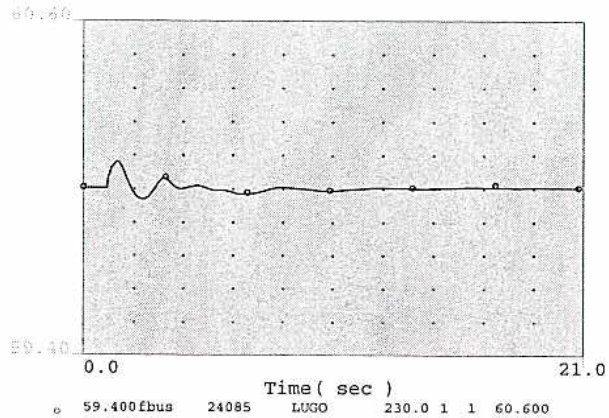


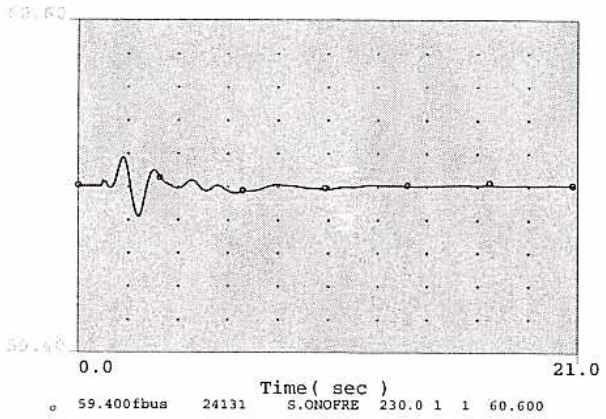


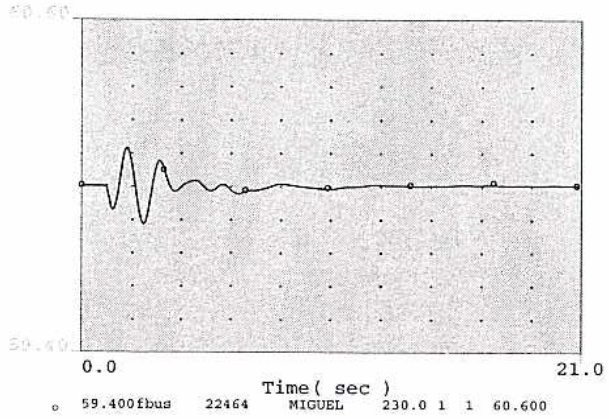


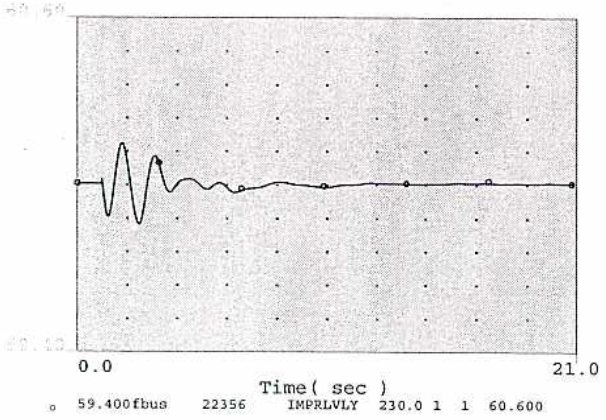
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's

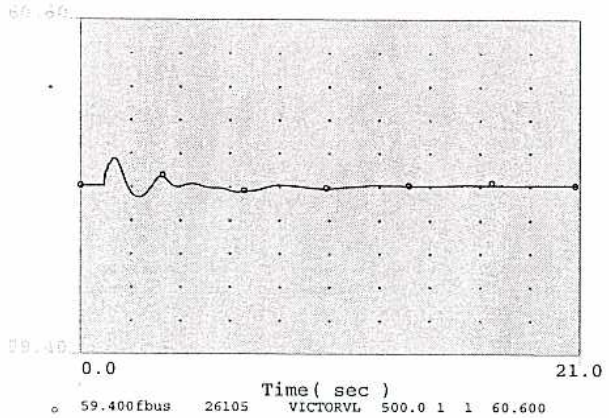




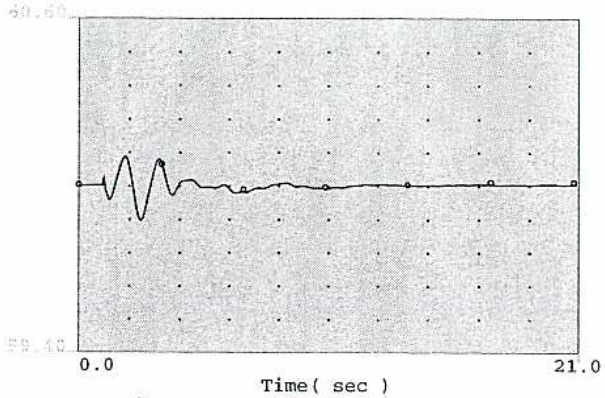




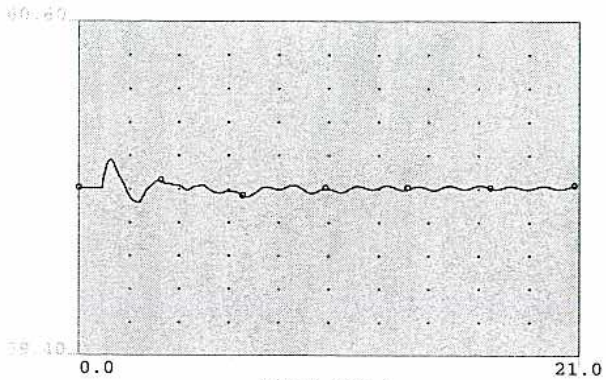




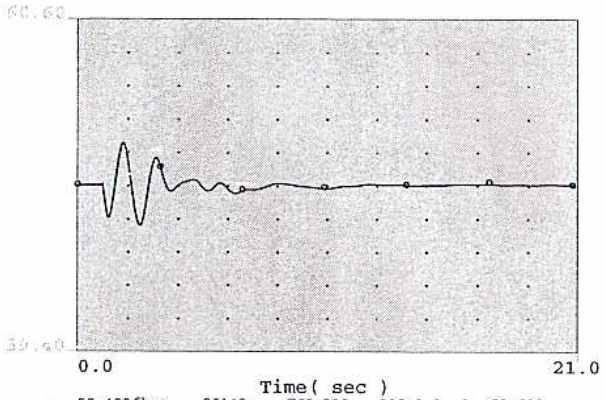
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's



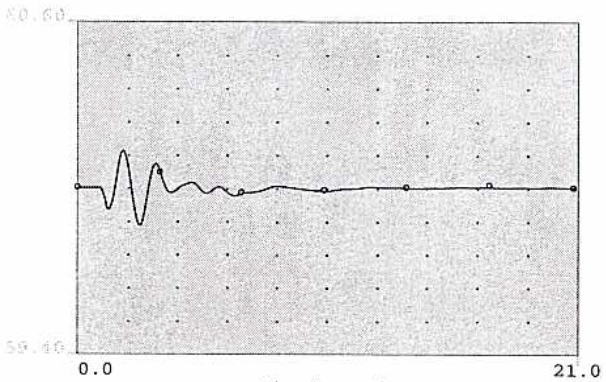
59.400fbus 21026 ELCENTSW 161.0 1 1 60.600



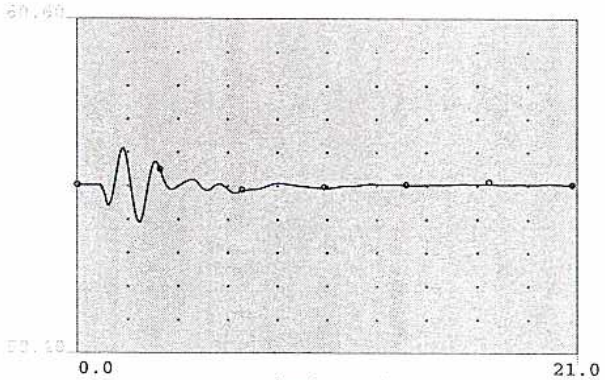
59.400fbus 21045 MIDWAY X 230.0 1 1 60.600



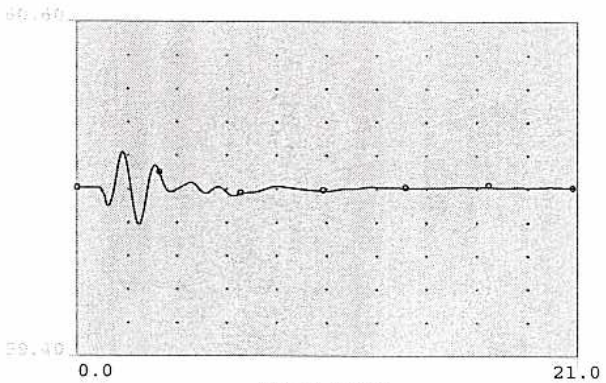
59.400fbus 20149 TJI-230 230.0 1 1 60.600



59.400fbus 22772 SOUTHBAY 138.0 1 1 60.600

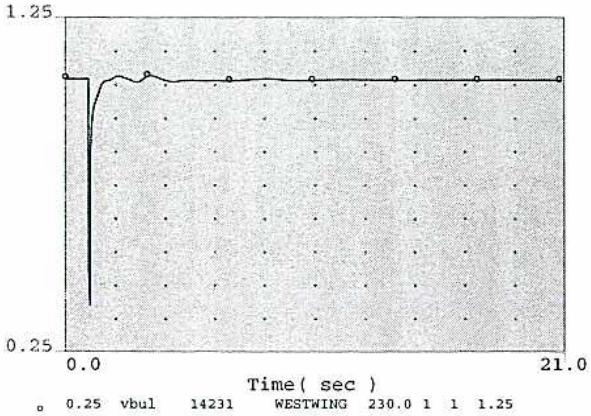


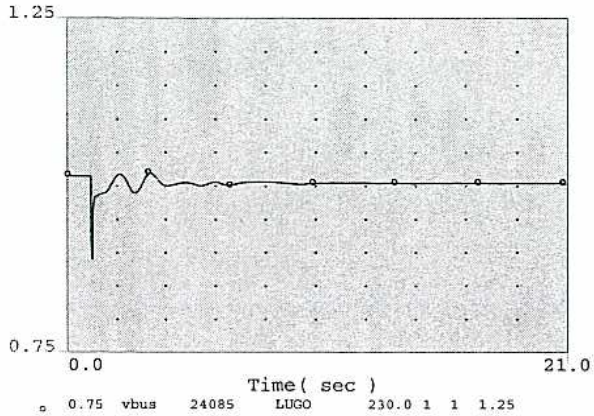
59.400fbus 22828 SYCAMORE 69.0 1 1 60.600

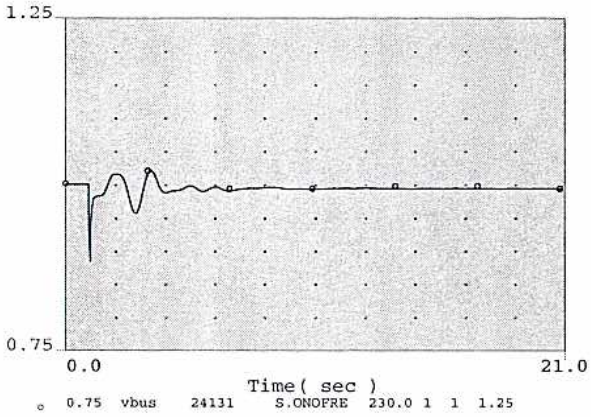


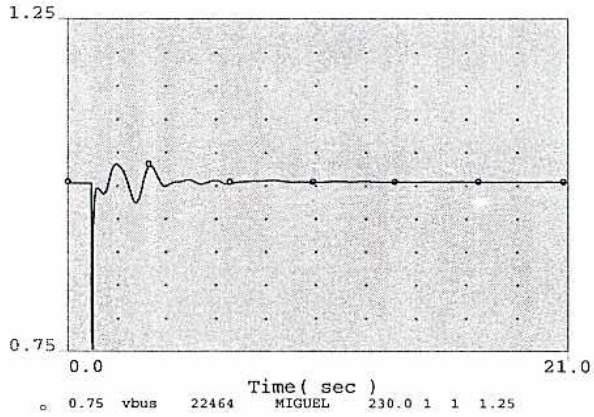
59.400fbus 22228 ENCINA 138.0 1 1 60.600

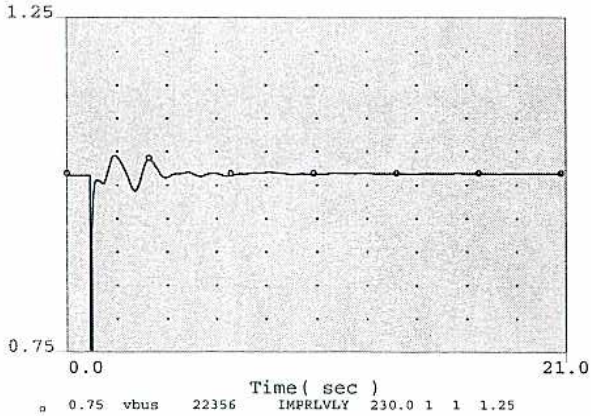
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's

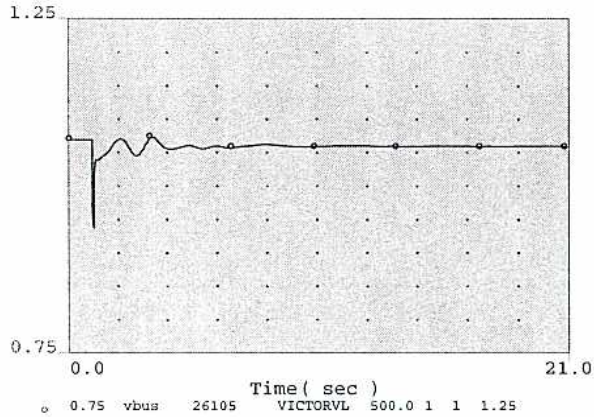




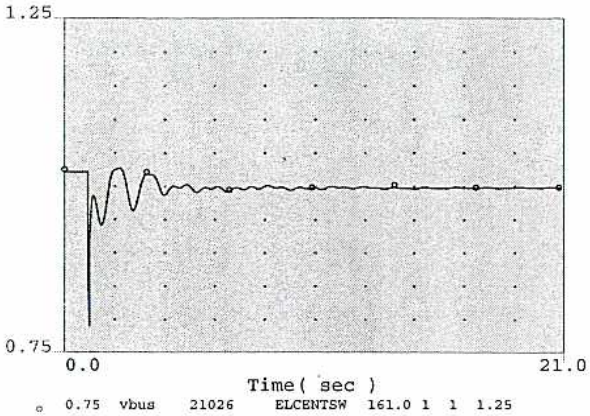


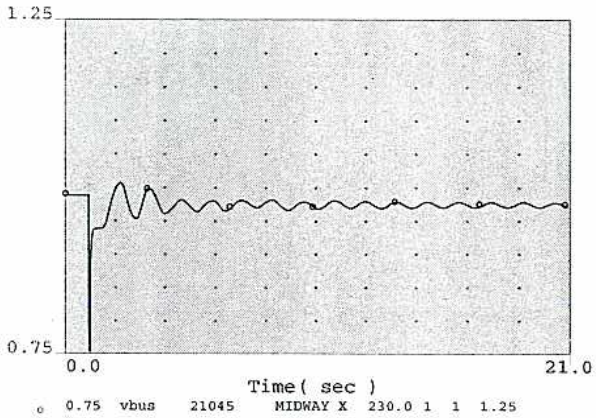


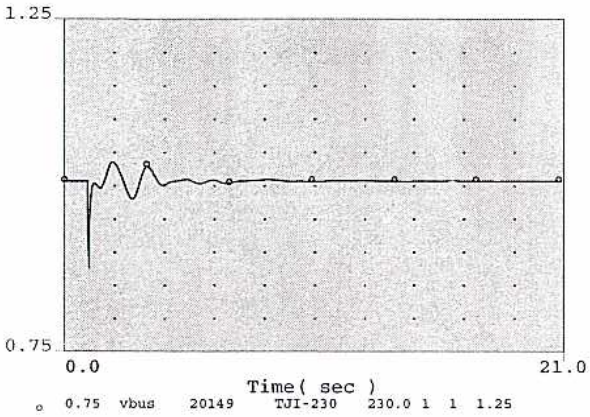


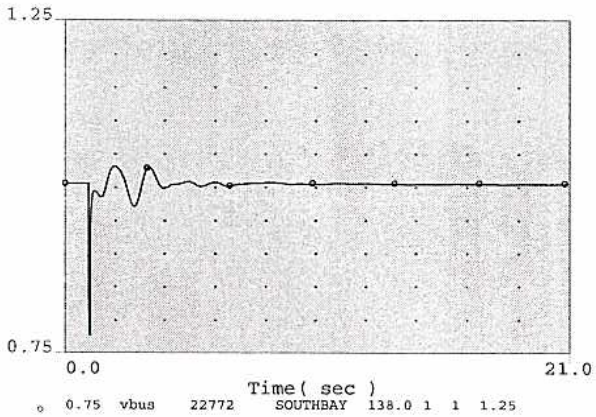


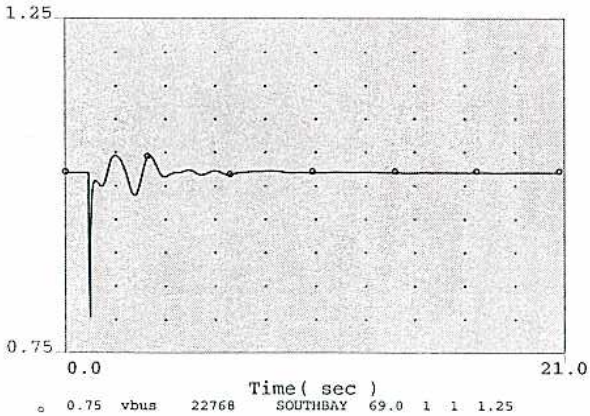
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's

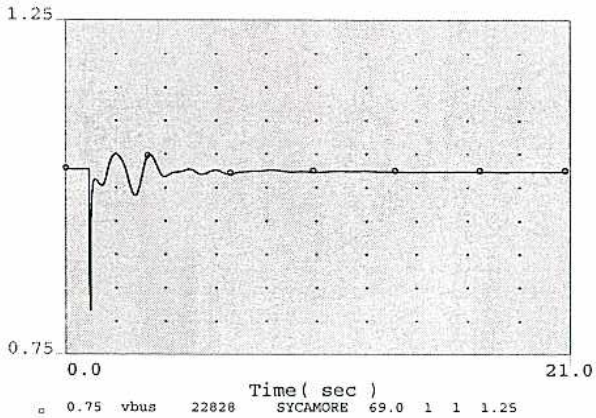




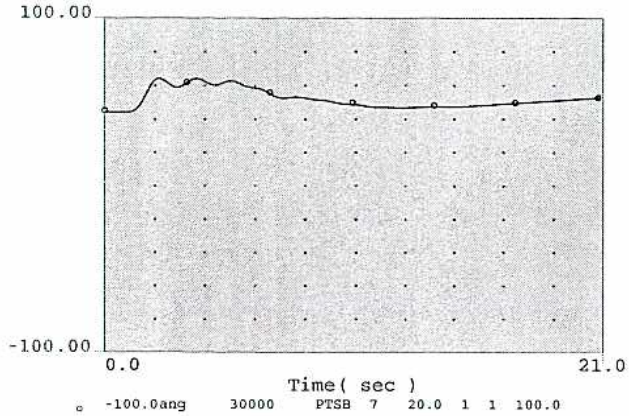


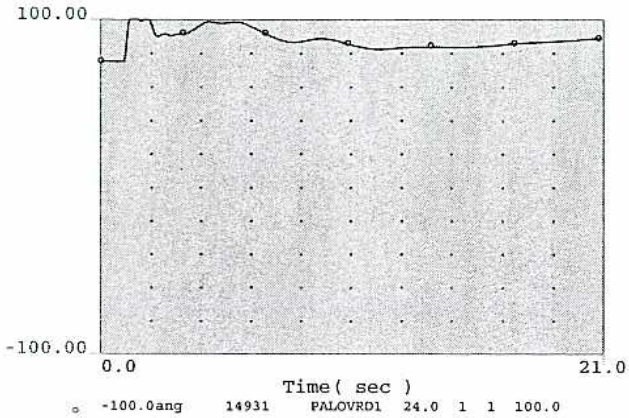


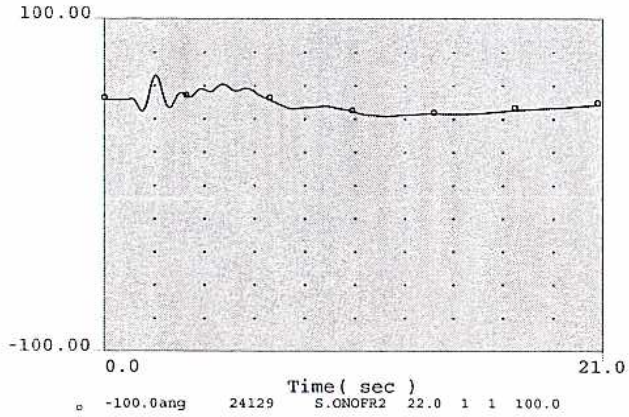


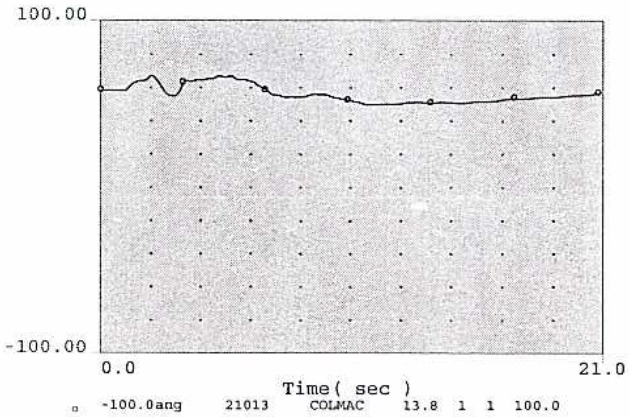


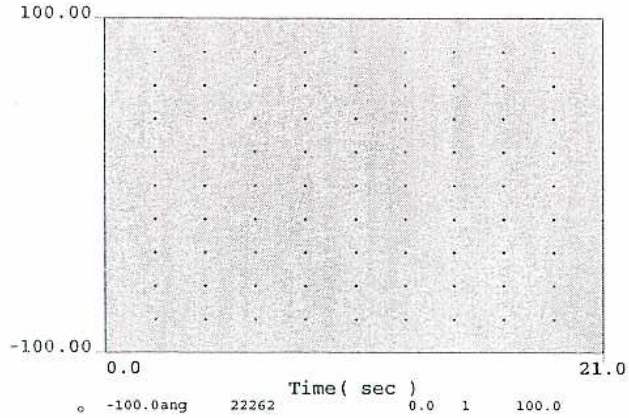
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's

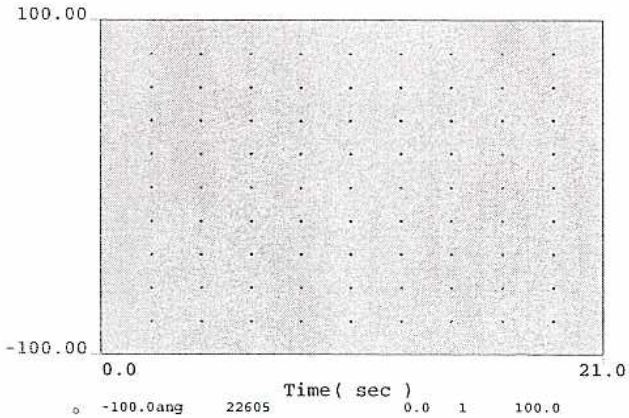




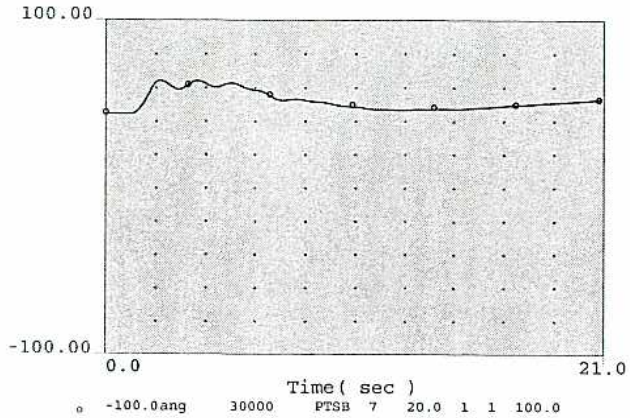


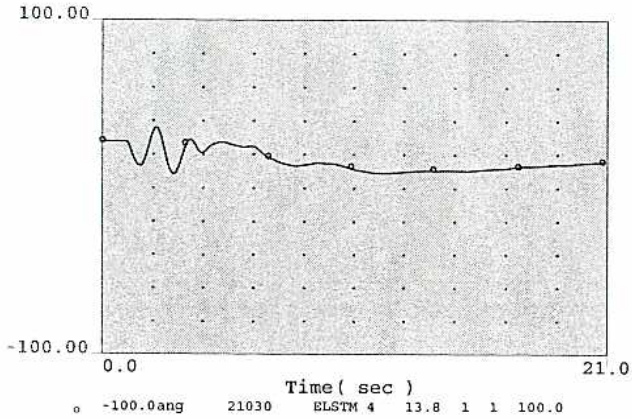


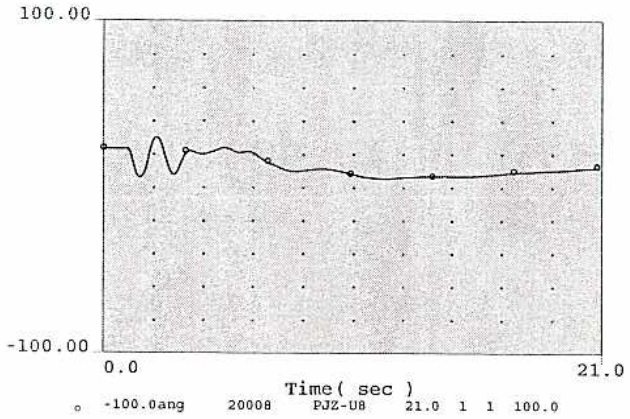


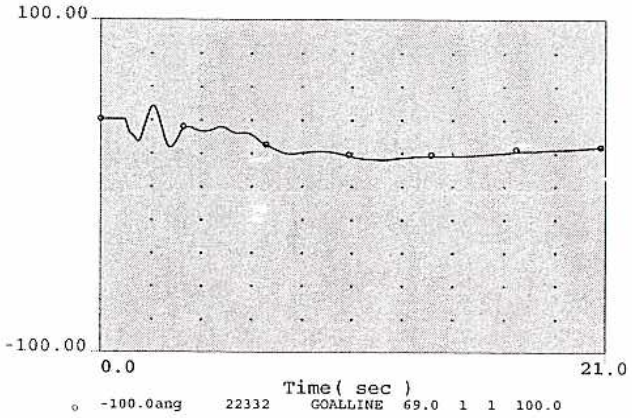


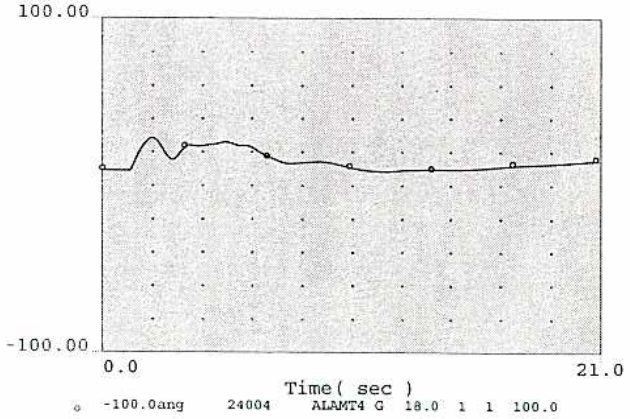
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's

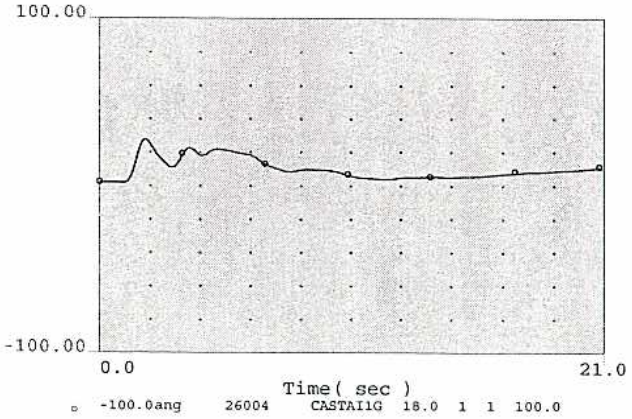




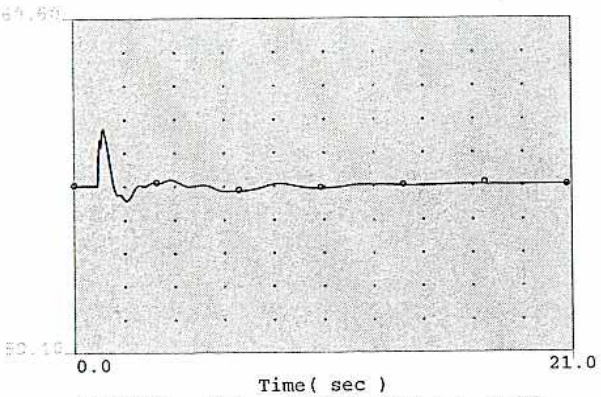




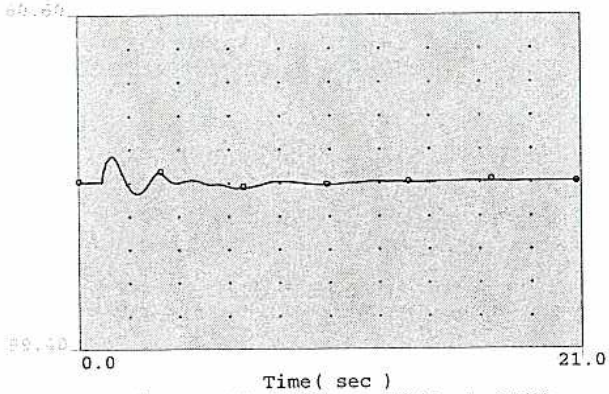




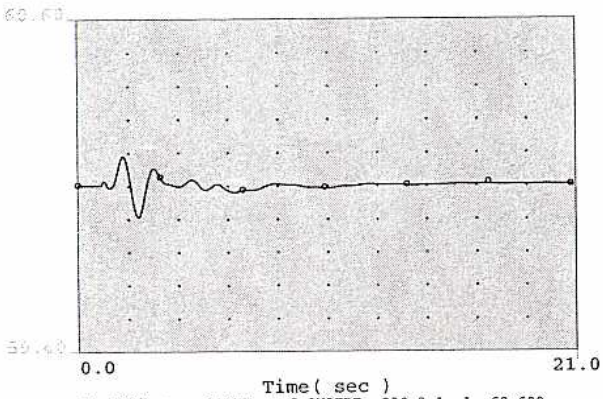
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's



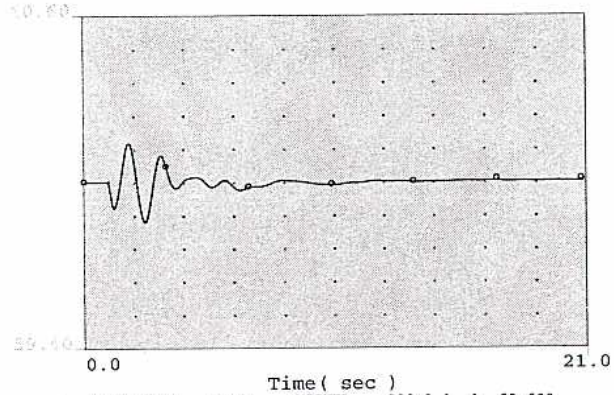
59.400fbul 14231 WESTWING 230.0 1 1 60.600



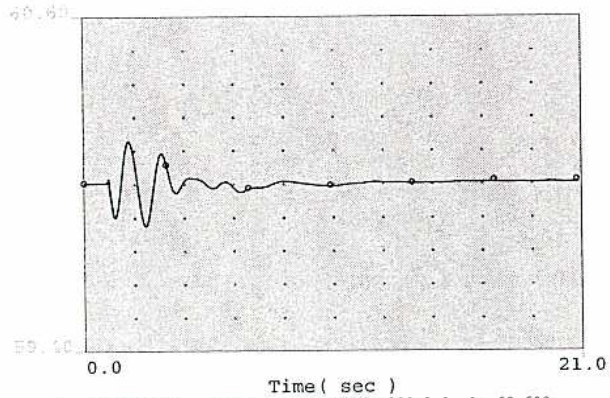
59.400fbus 24085 LUGO 230.0 1 1 60.600



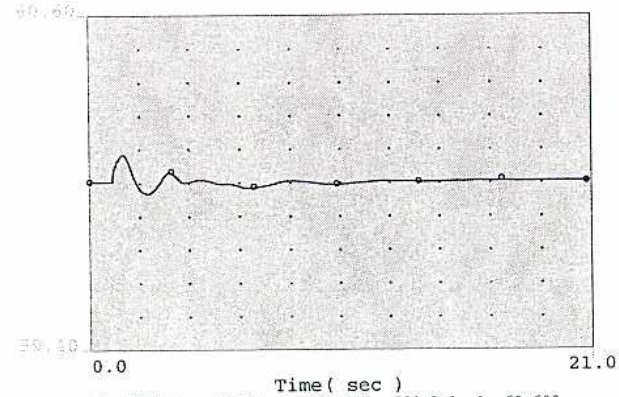
59.400fbus 24131 S.ONOFRE 230.0 1 1 60.600



59.400fbus 22464 MIGUEL 230.0 1 1 60.600

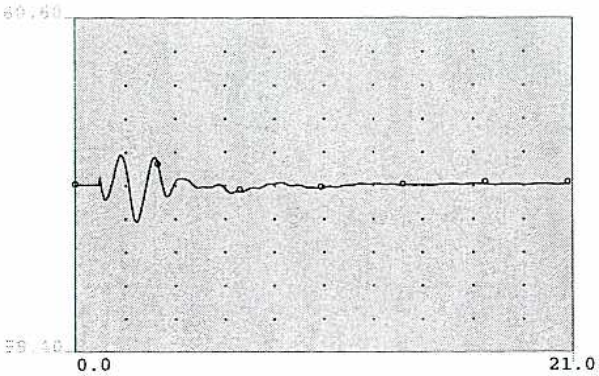


59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600

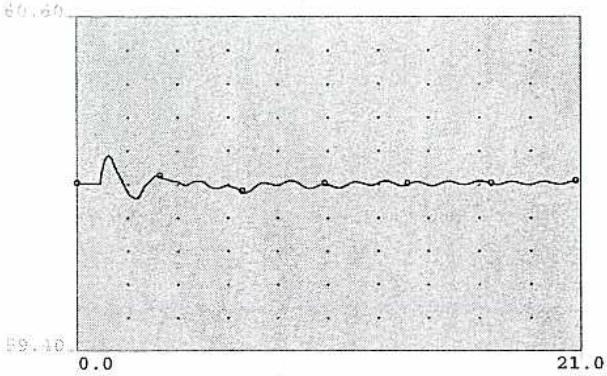


59.400fbus 26105 VICTORVL 500.0 1 1 60.600

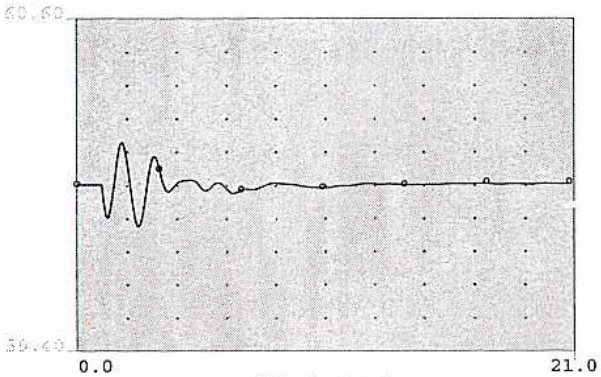
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's



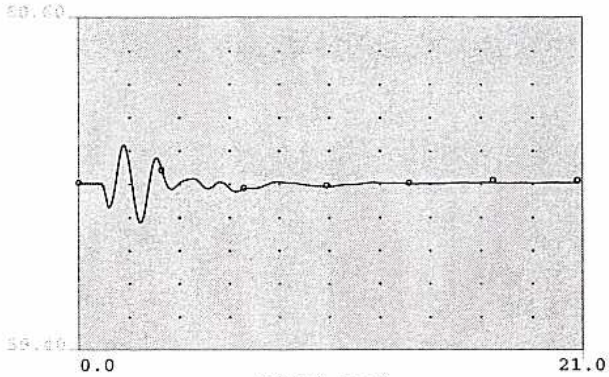
59.400fbus 21026 ELCENTSW 161.0 1 1 60.600



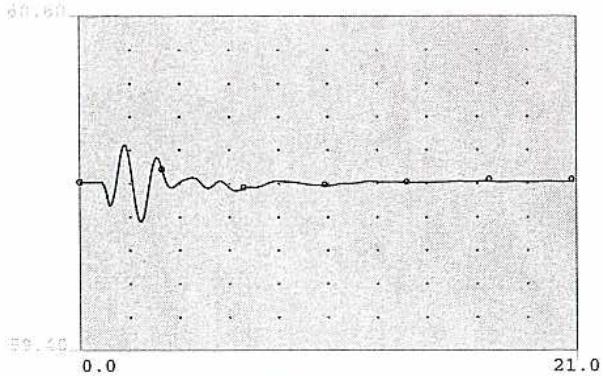
59.400fbus 21045 MIDWAY X 230.0 1 1 60.600



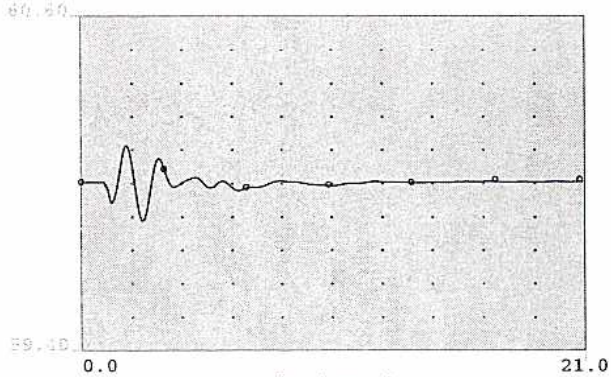
59.400fbus 20149 TJI-230 230.0 1 1 60.600



59.400fbus 22772 SOUTHBAY 138.0 1 1 60.600



59.400fbus 22828 SYCAMORE 69.0 1 1 60.600



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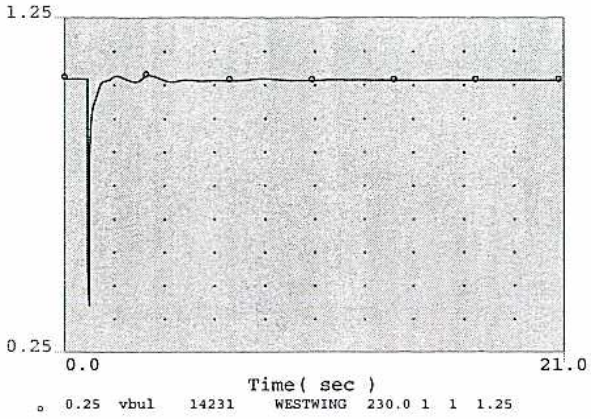
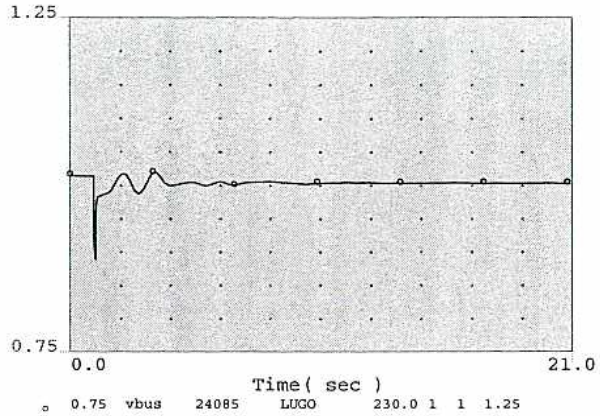
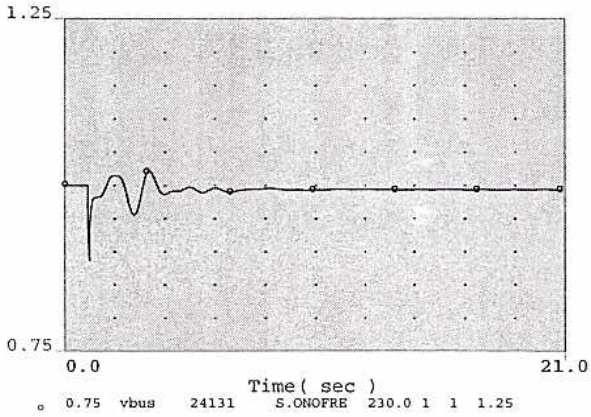
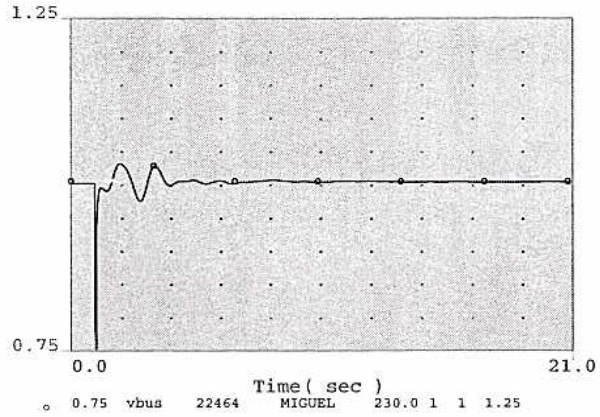
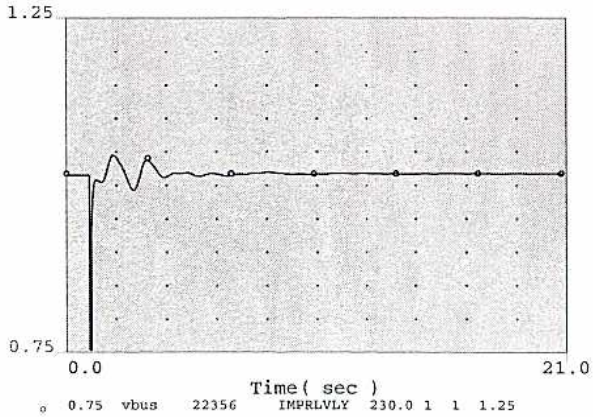
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's

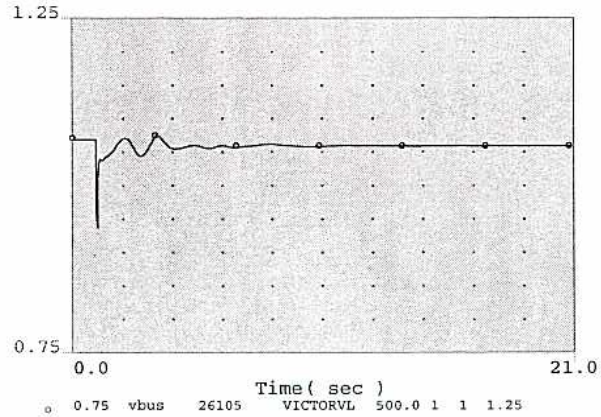




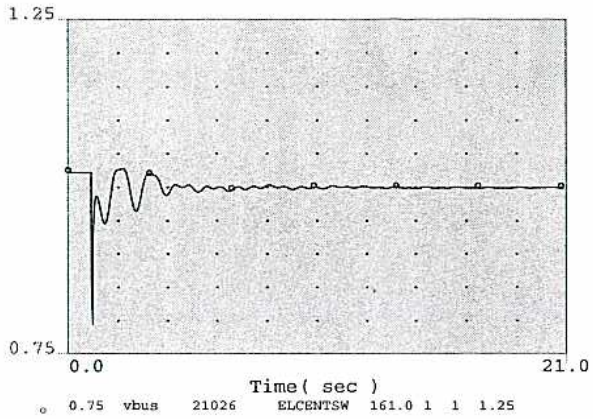


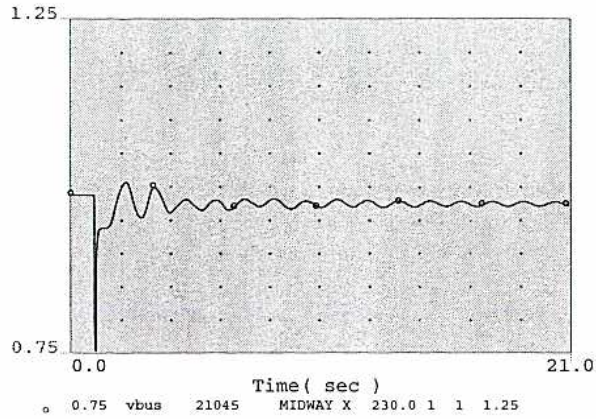


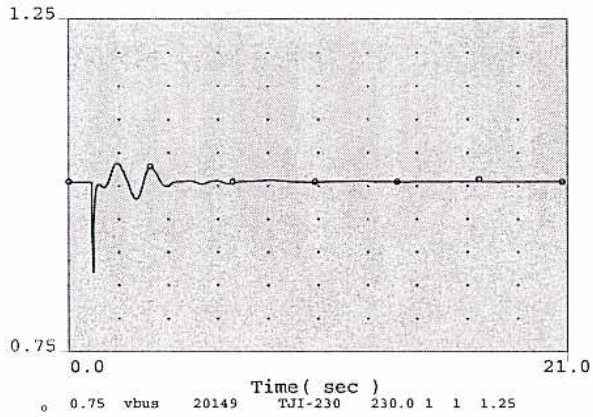


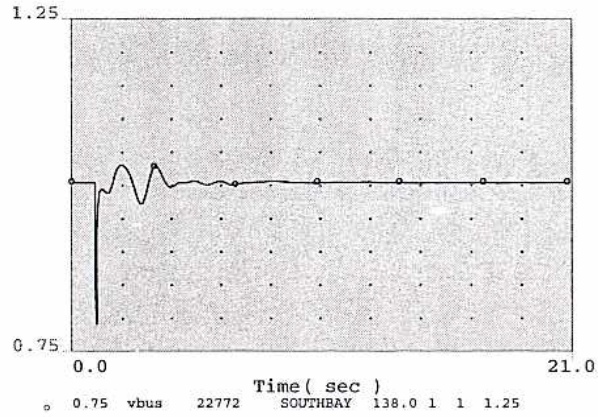


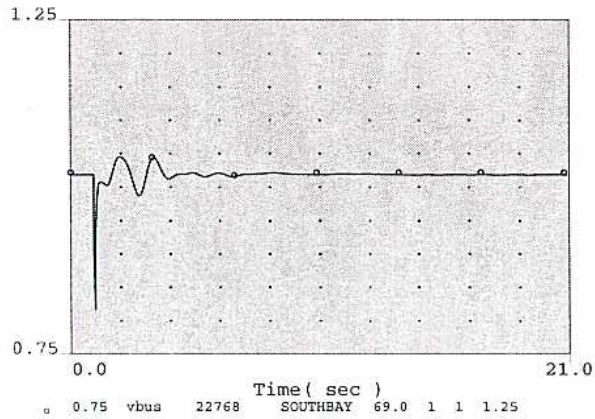
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's

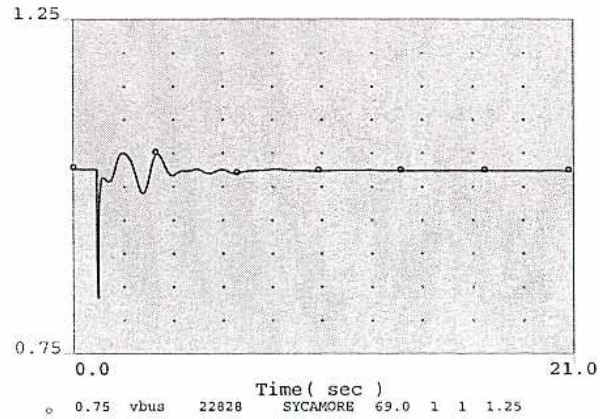




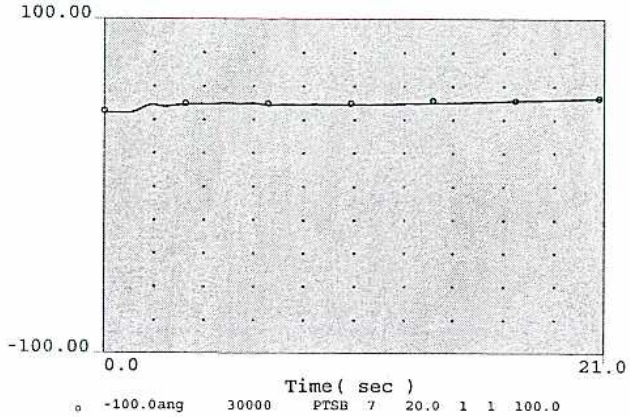


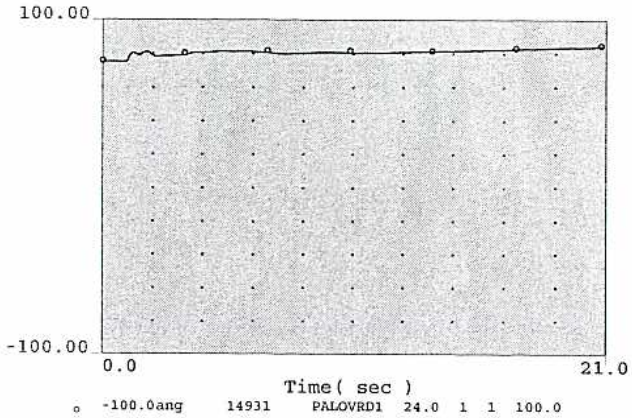


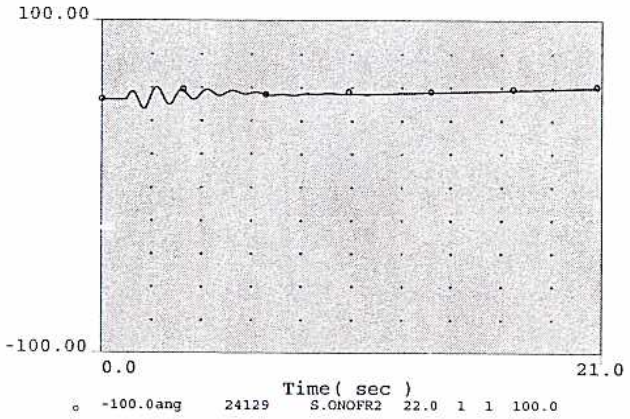


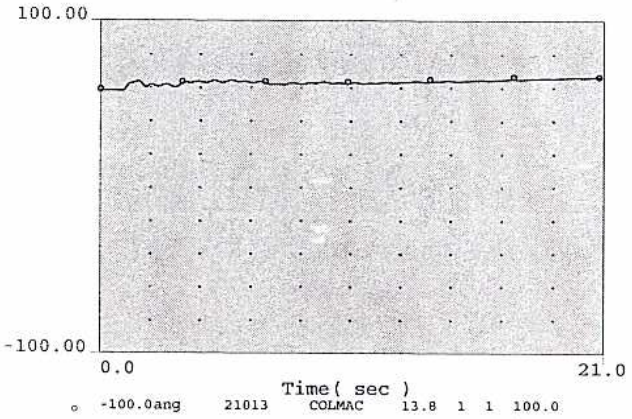


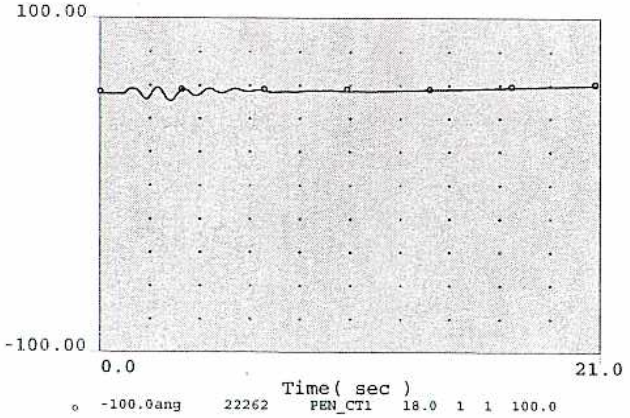
Fault bus at Hassayampa
Trip Hassayampa - N. Gila 500 kV Line
Readjust SCE/Devers SVC's

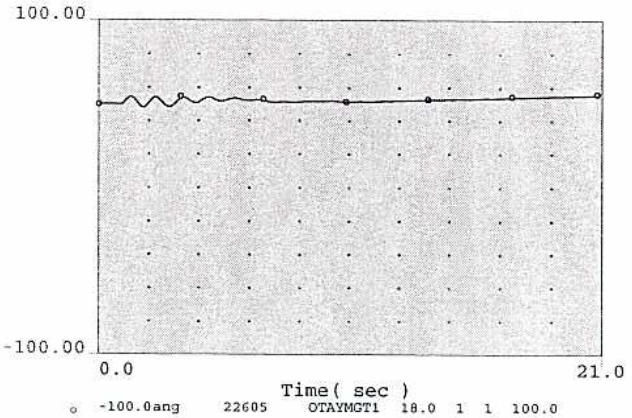




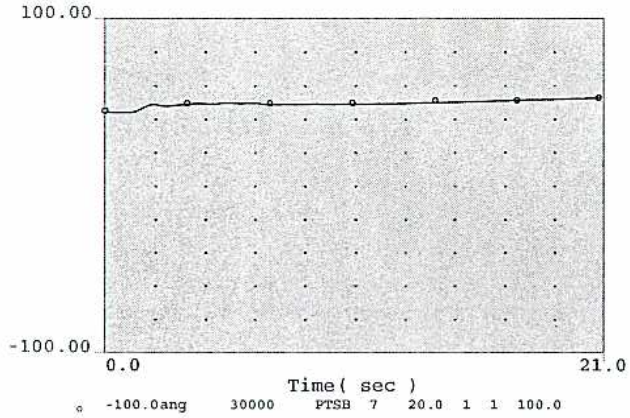








Fault bus at Imperial Valley
Trip Imperial Valley - Centralx 500 kV line



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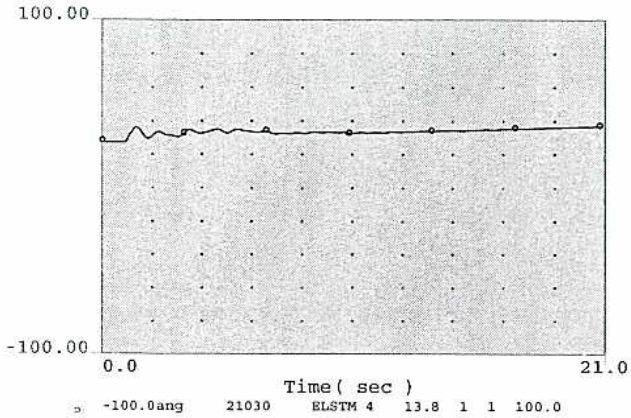

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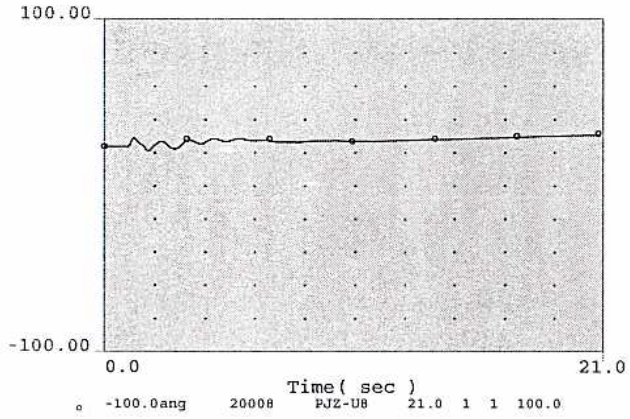

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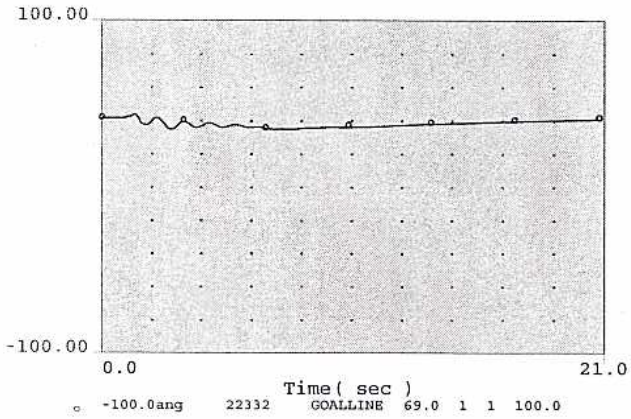
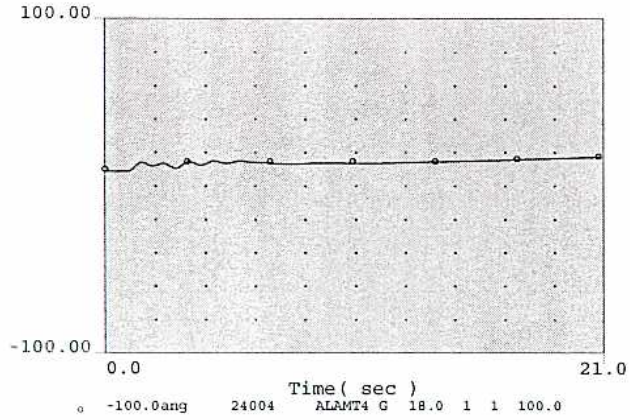


-100.0ang 22332 GOALLINE 69.0 1 1 100.0



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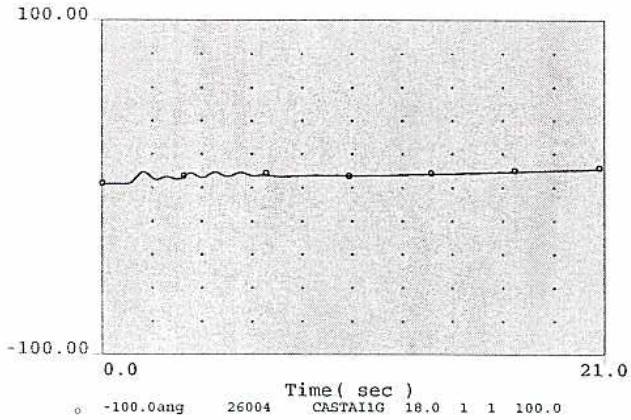
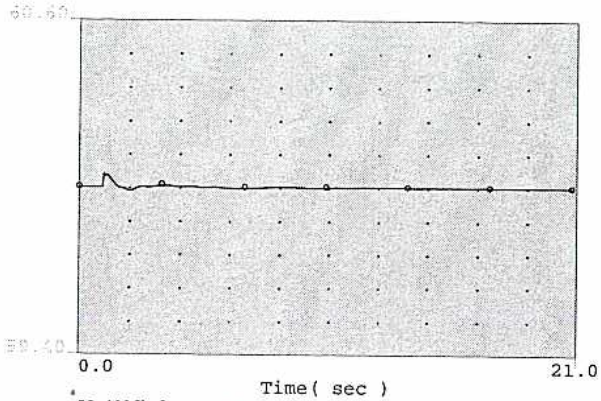


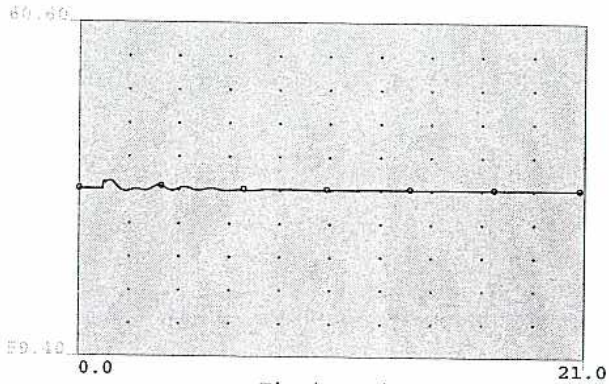
-100.0ang 26004 CASTAI1G 18.0 1 1 100.0

Fault bus at Imperial Valley

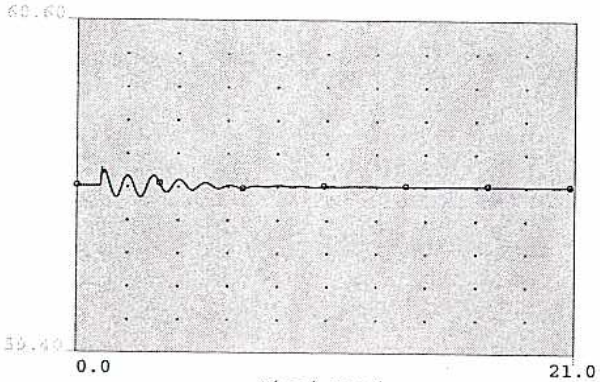
Trip Imperial Valley - Centralx 500 kV line



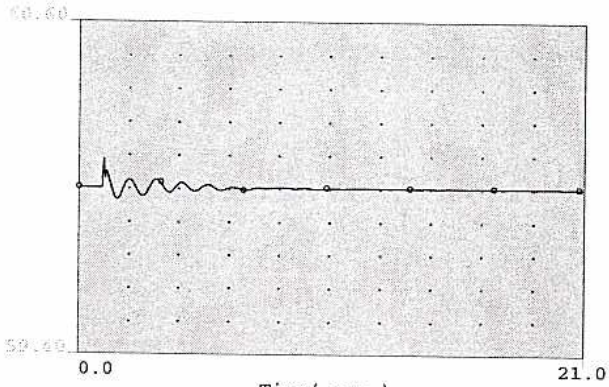
o 59.400fbul 14231 WESTWING 230.0 1 1 60.600



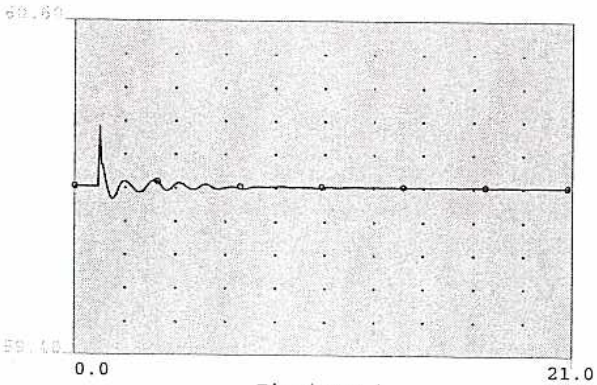
o 59.400fbus 24085 LUGO 230.0 1 1 60.600



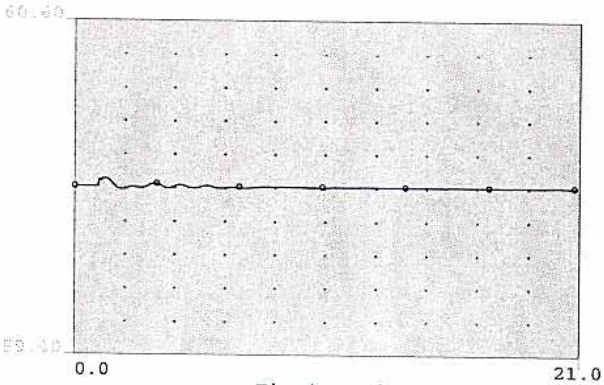
o 59.400fbus 24131 S.ONOFRE 230.0 1 1 60.600



o 59.400fbus 22464 MIGUEL 230.0 1 1 60.600



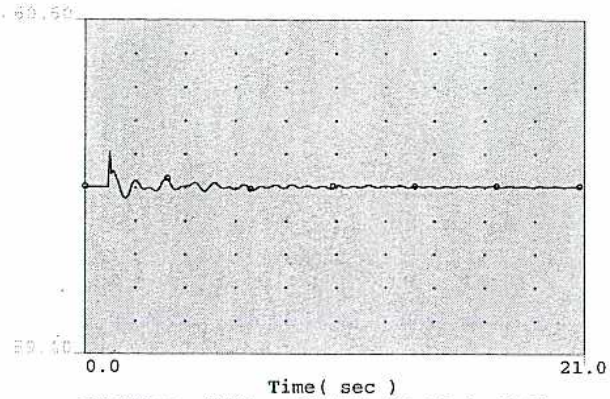
o 59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600



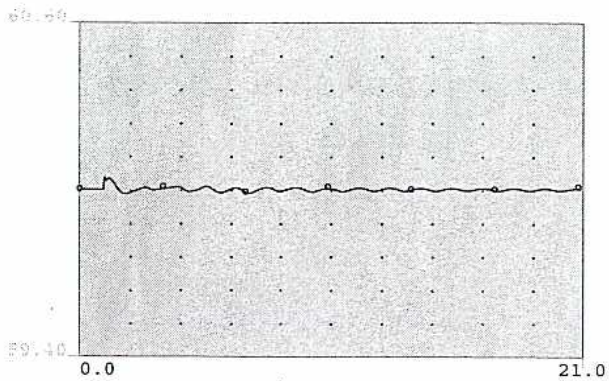
o 59.400fbus 26105 VICTORVL 500.0 1 1 60.600

Fault bus at Imperial Valley

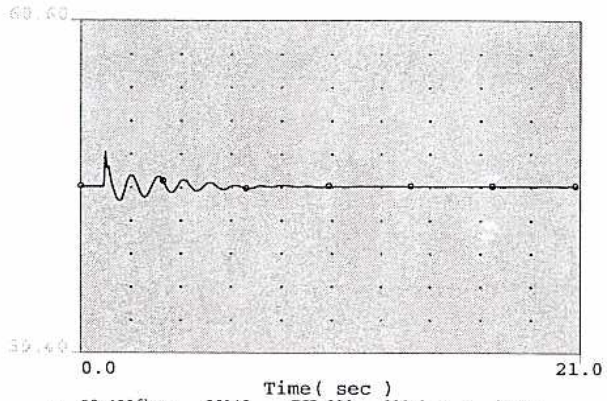
Trip Imperial Valley - Centralx 500 kV line



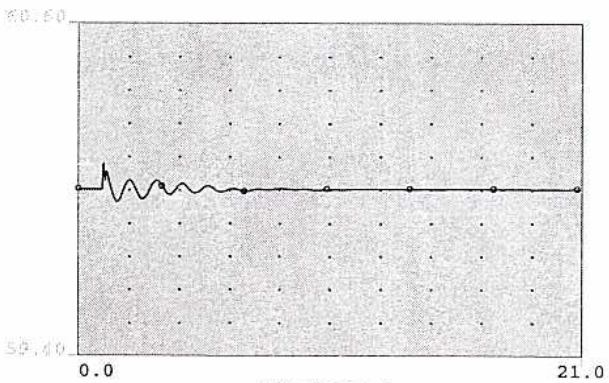
59.400fbus 21026 ELCENTSW 161.0 1 1 60.600



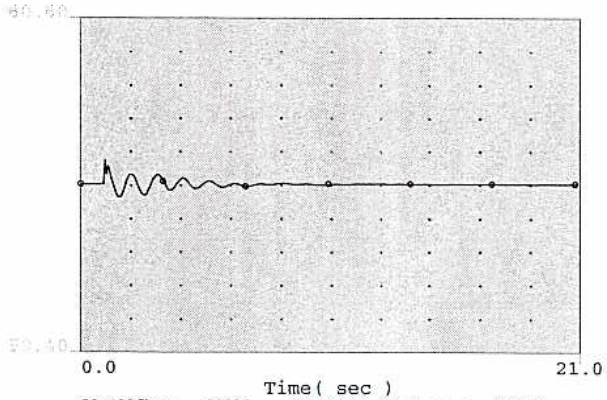
59.400fbus 21045 MIDWAY X 230.0 1 1 60.600



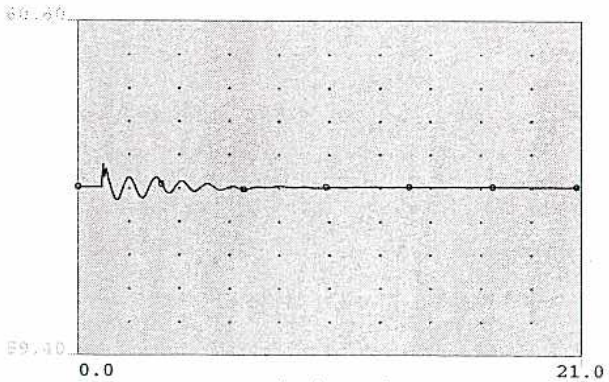
59.400fbus 20149 TJI-230 230.0 1 1 60.600



59.400fbus 22772 SOUTHBAY 138.0 1 1 60.600



59.400fbus 22828 SYCAMORE 69.0 1 1 60.600



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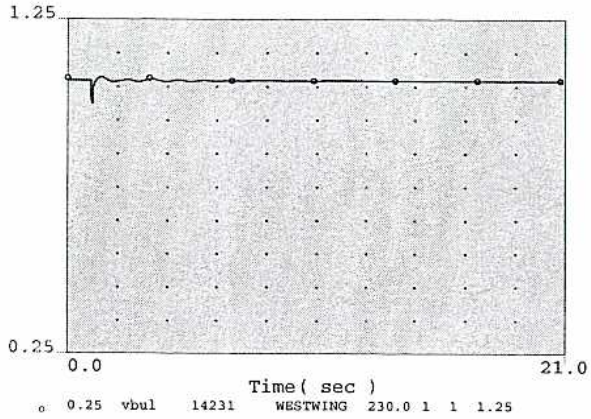
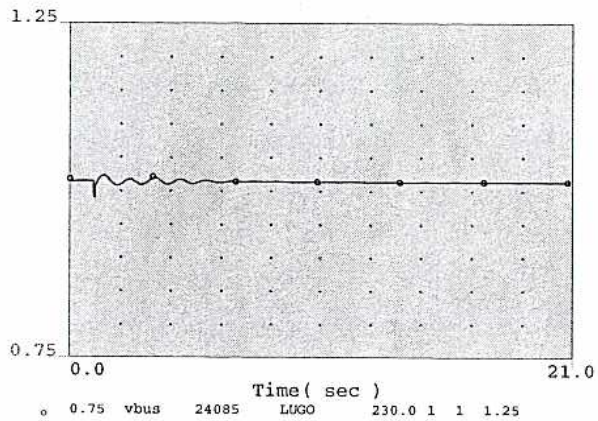
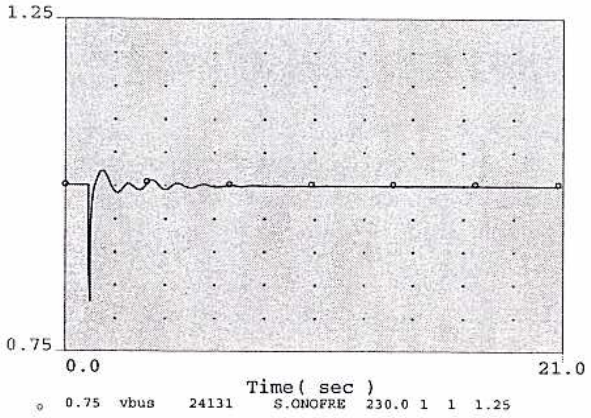
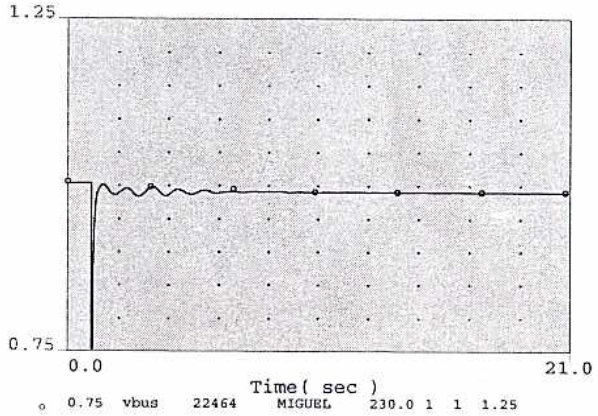
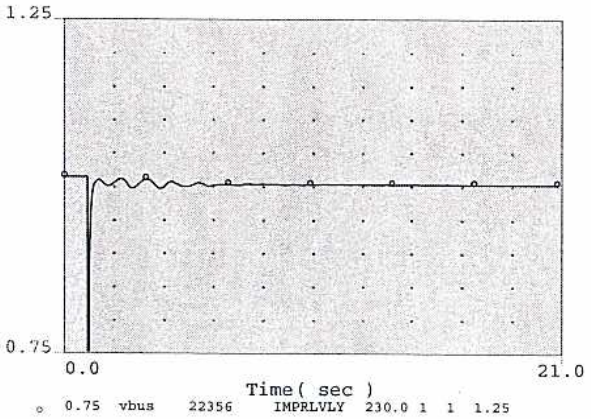
Fault bus at Imperial Valley
Trip Imperial Valley - Centralx 500 kV line

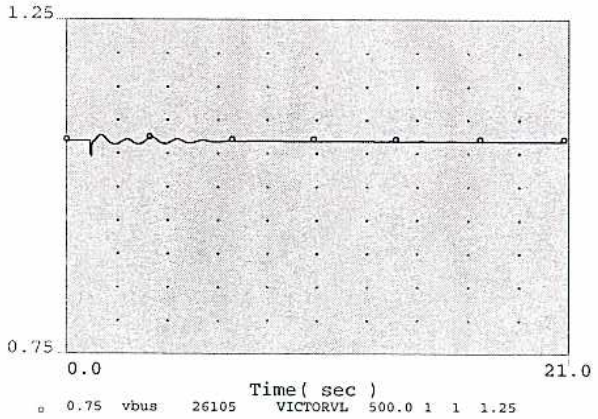




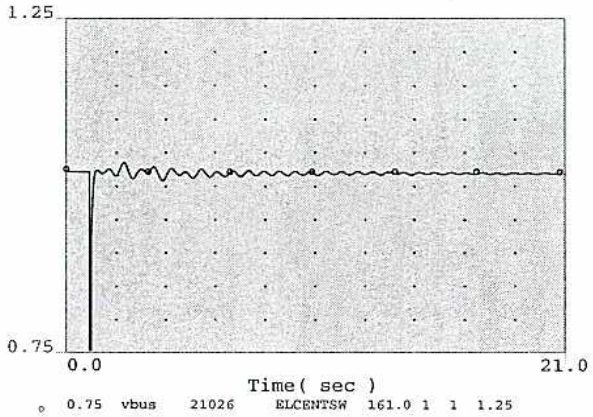


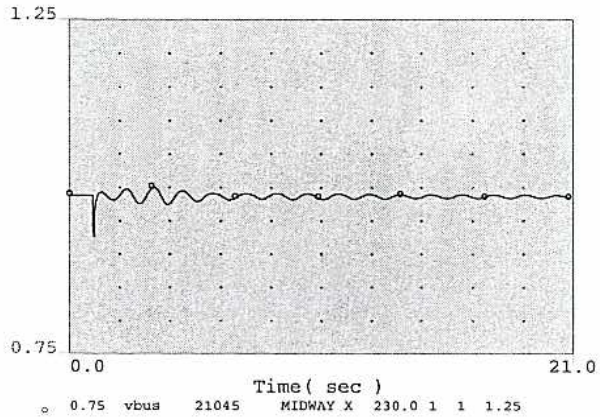


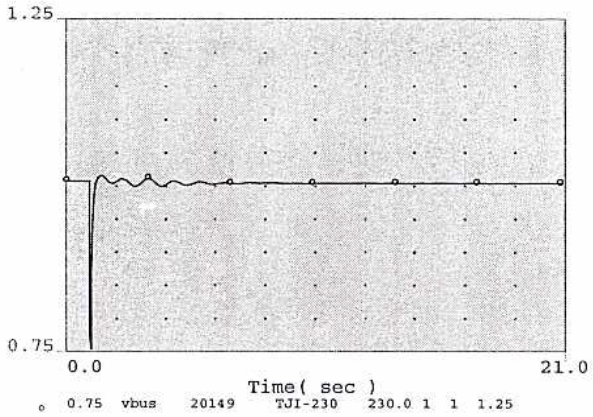


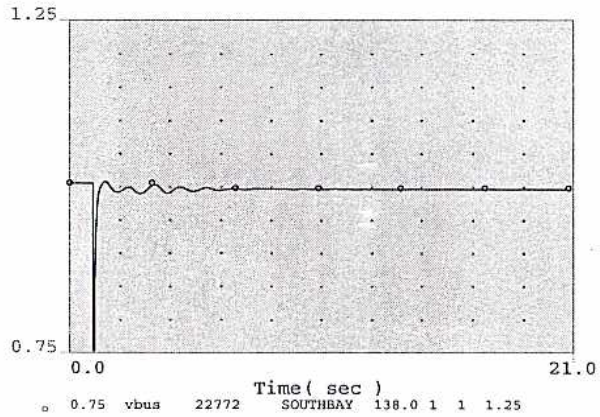


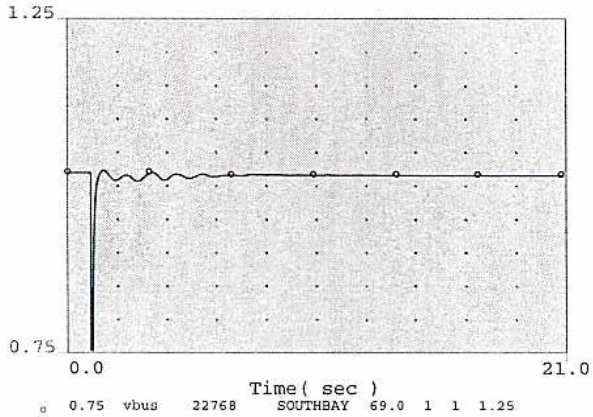
Fault bus at Imperial Valley
Trip Imperial Valley - Centralx 500 kV line

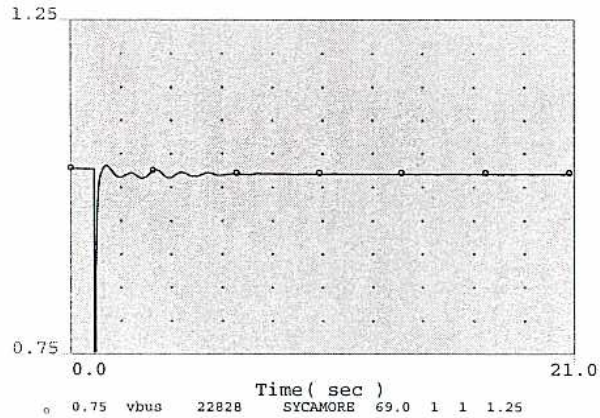






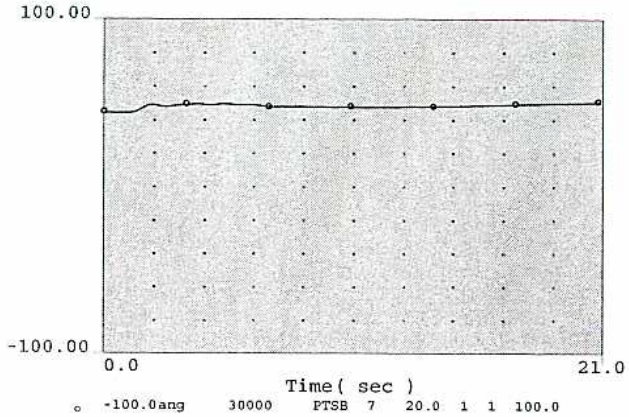


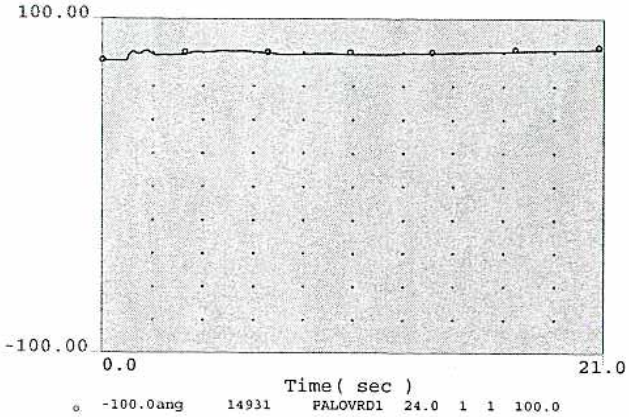


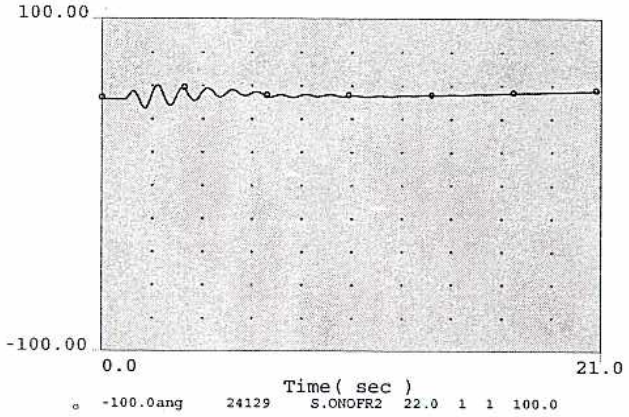


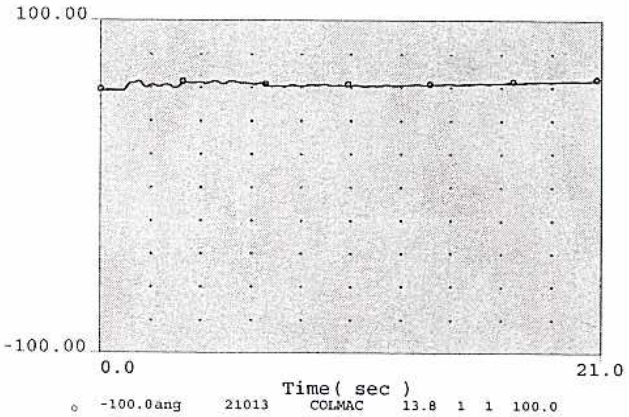
Fault bus at Imperial Valley

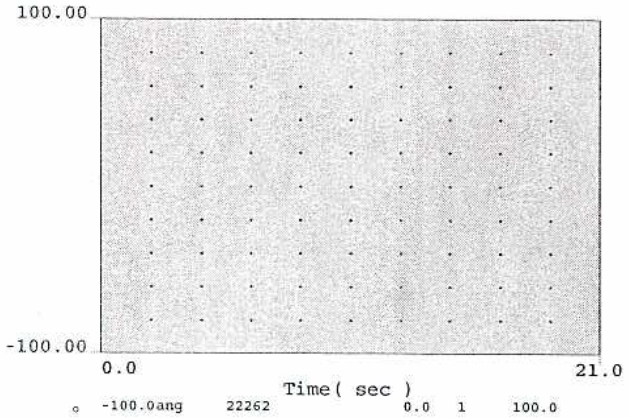
Trip Imperial Valley - Centralx 500 kV line

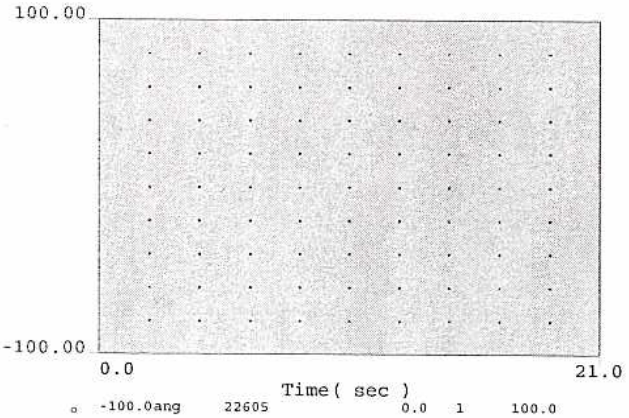




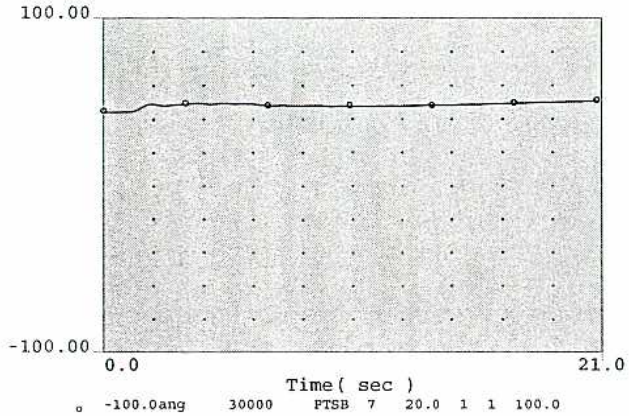


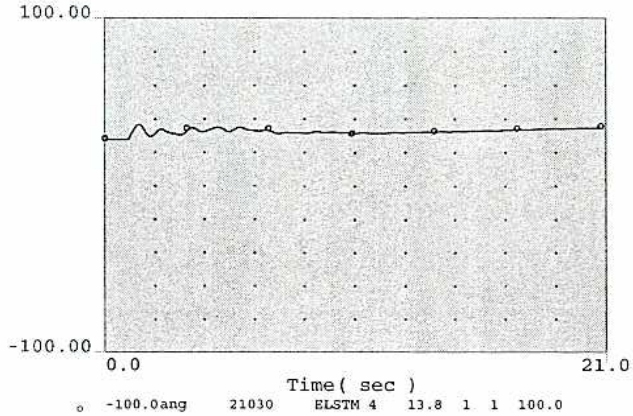


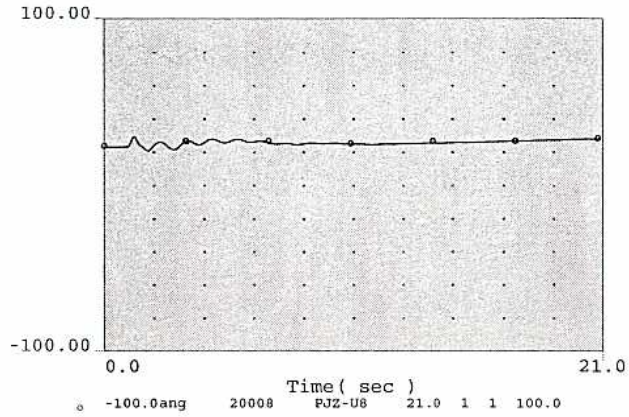


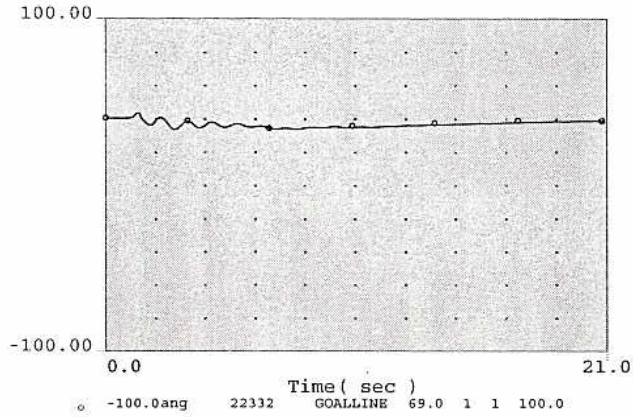


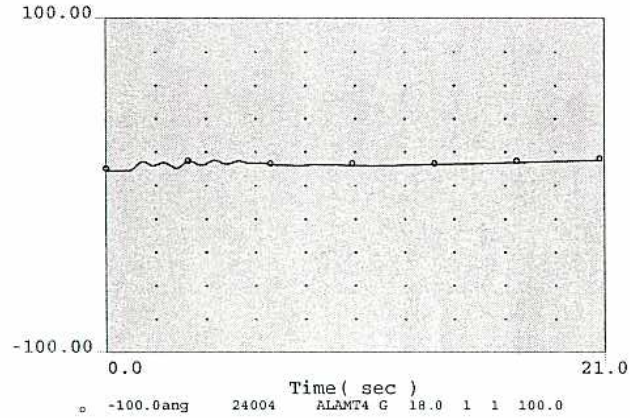
Fault bus at Imperial Valley
Trip Imperial Valley - Centralx 500 kV line

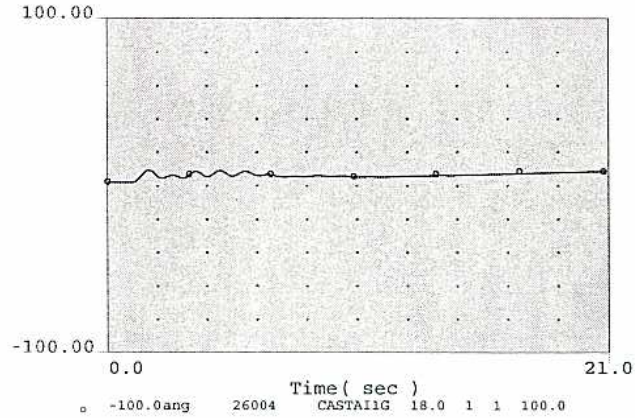




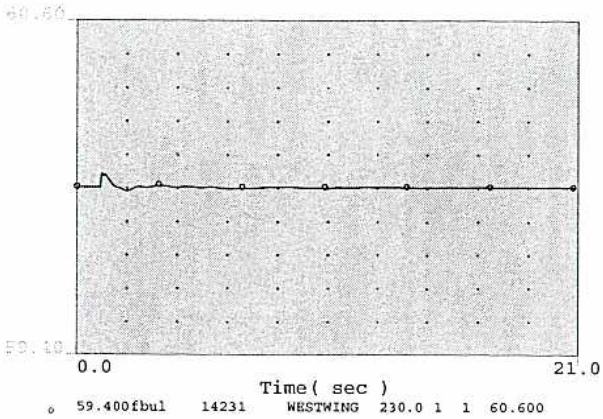


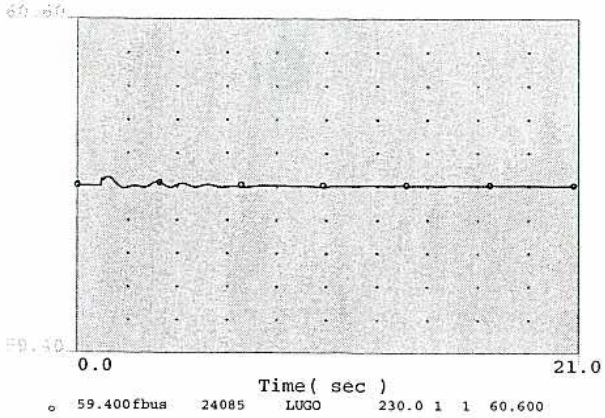


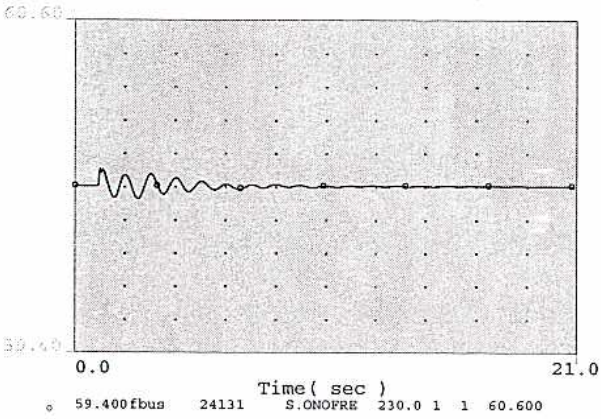


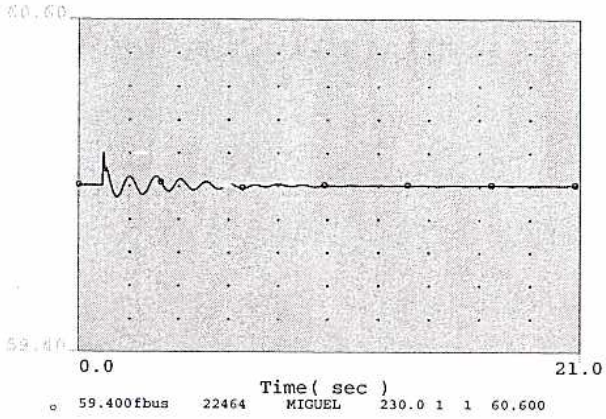


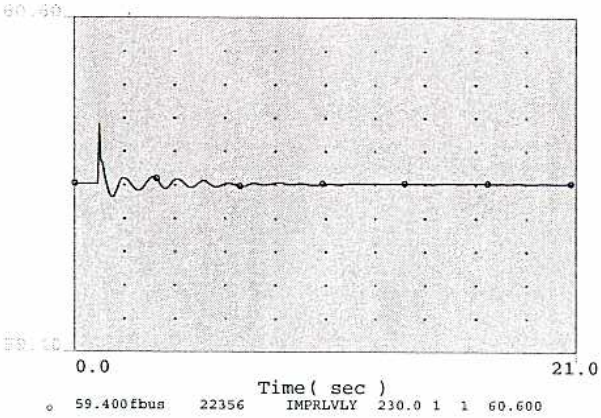
Fault bus at Imperial Valley
Trip Imperial Valley - Centralx 500 kV line

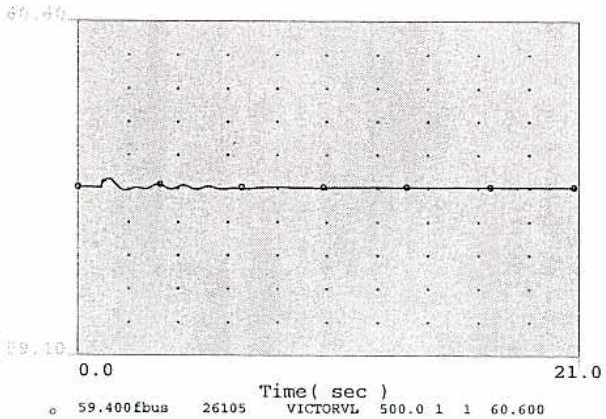




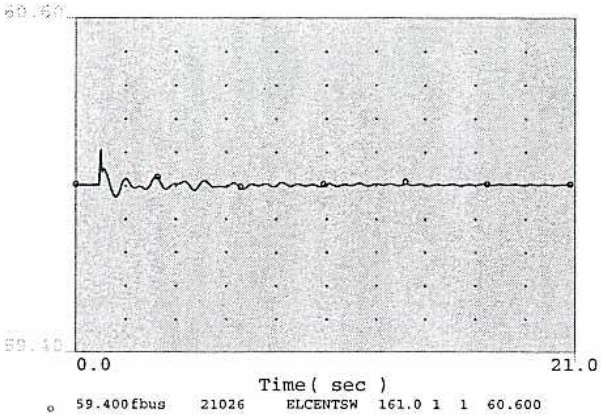


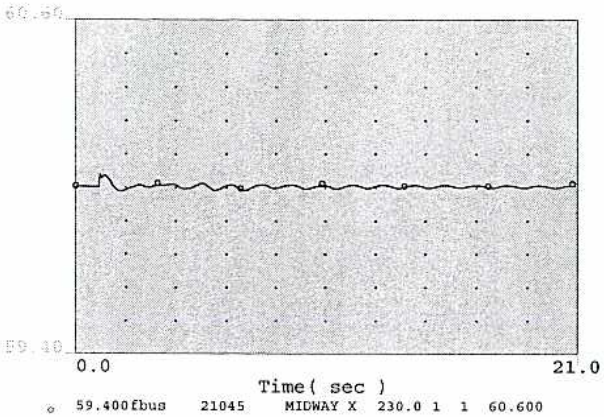


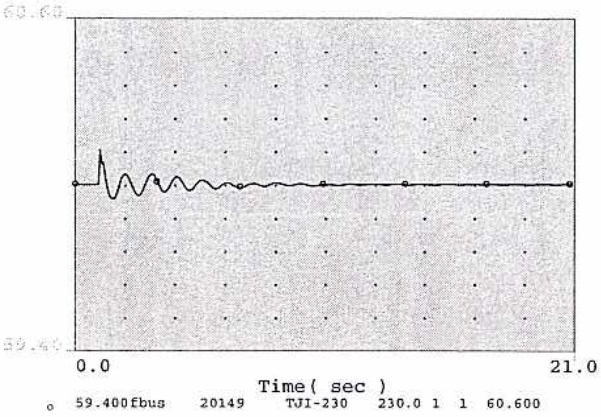


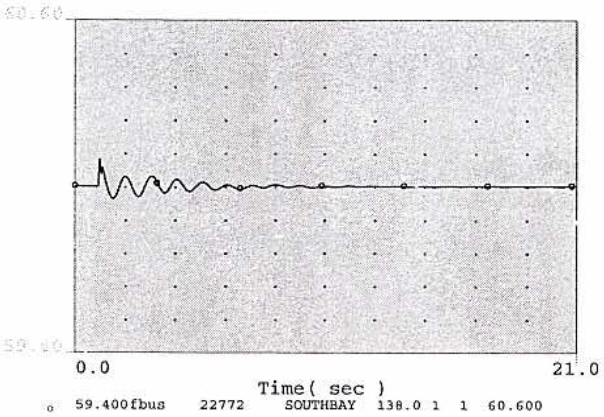


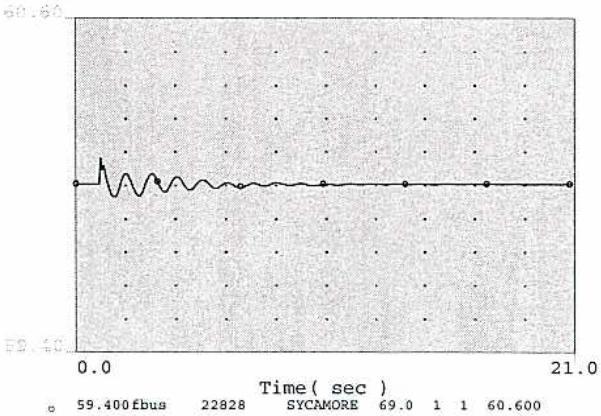
Fault bus at Imperial Valley
Trip Imperial Valley - Centralx 500 kV line

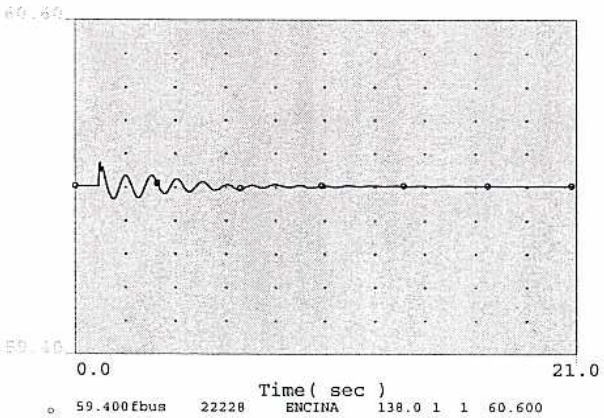




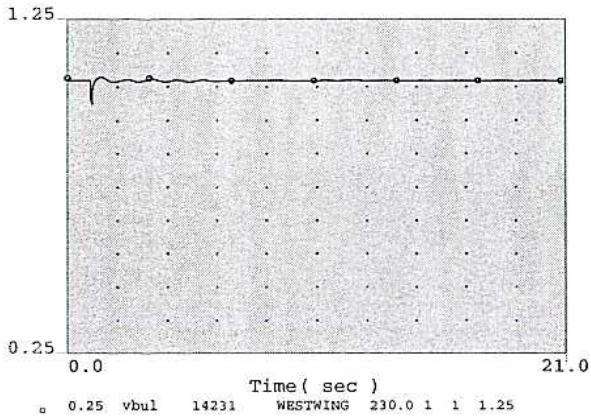


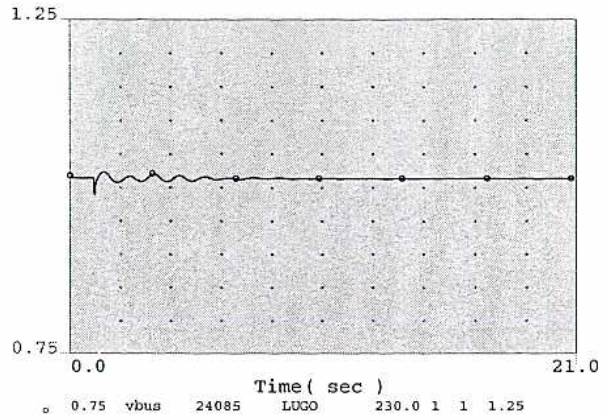


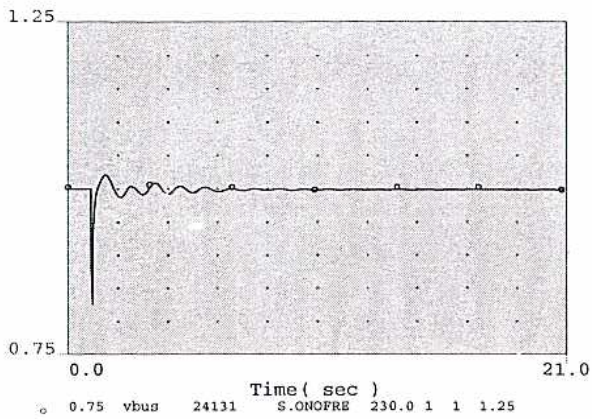


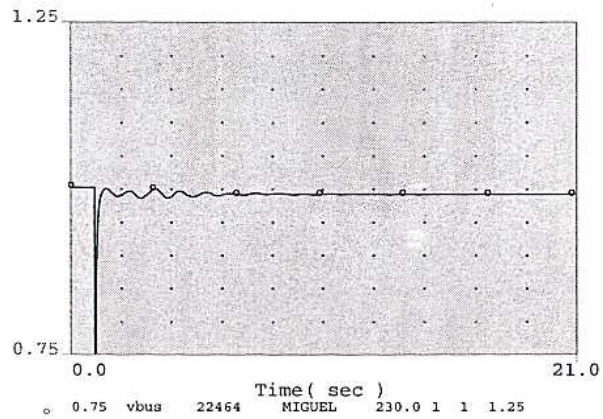


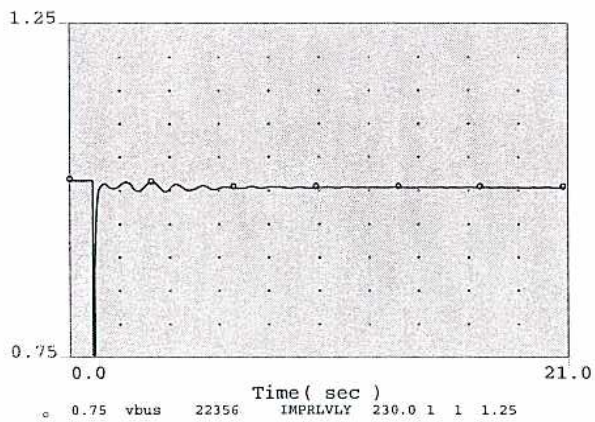
Fault bus at Imperial Valley
Trip Imperial Valley - Centralx 500 kV line

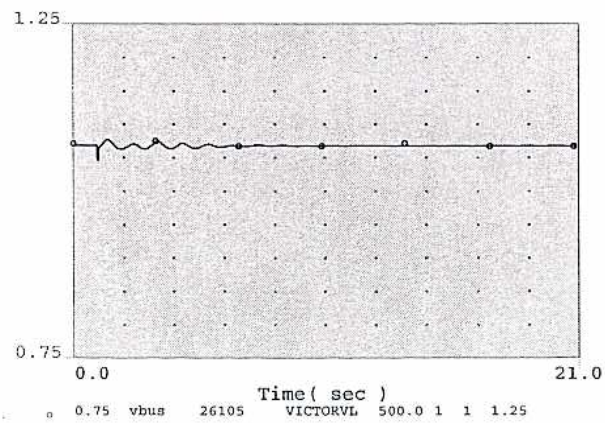






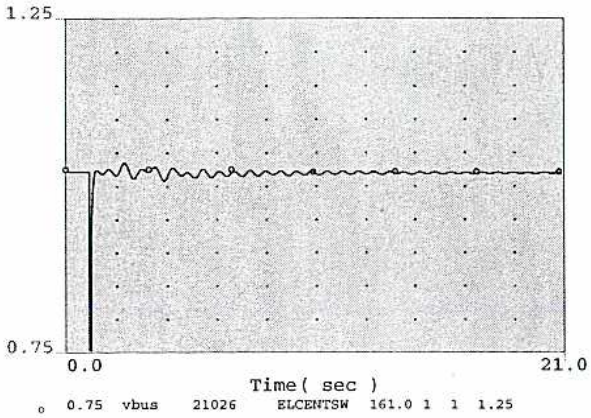


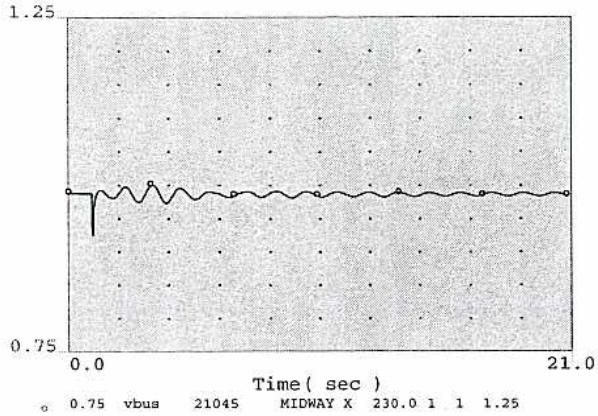


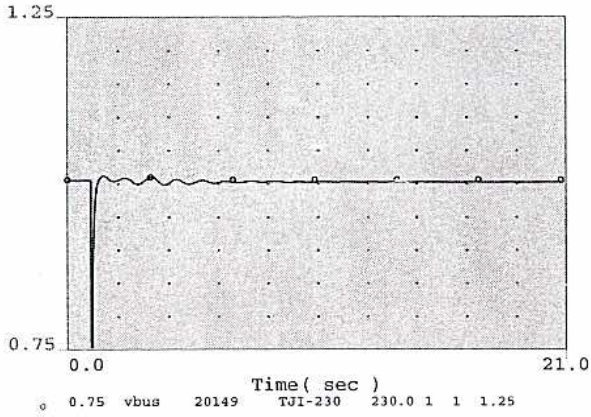


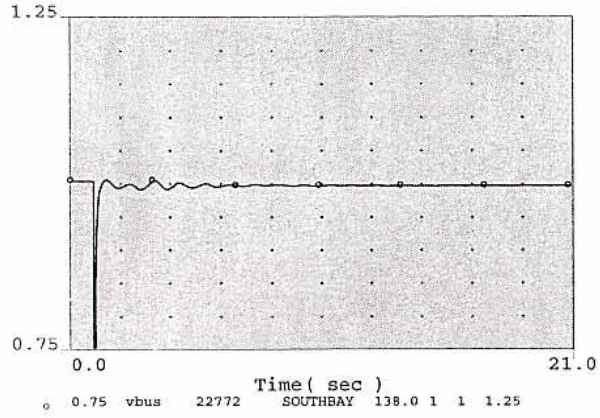
Fault bus at Imperial Valley

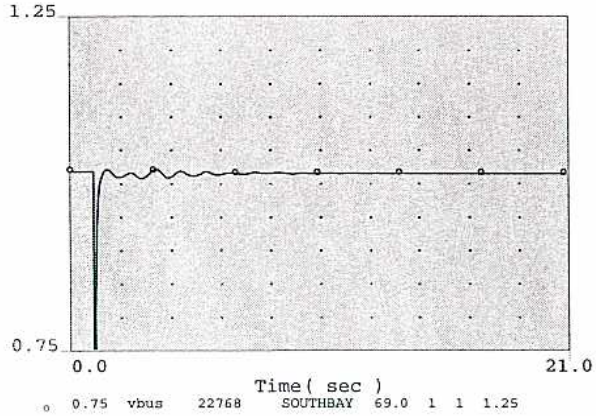
Trip Imperial Valley - Centralx 500 kV line

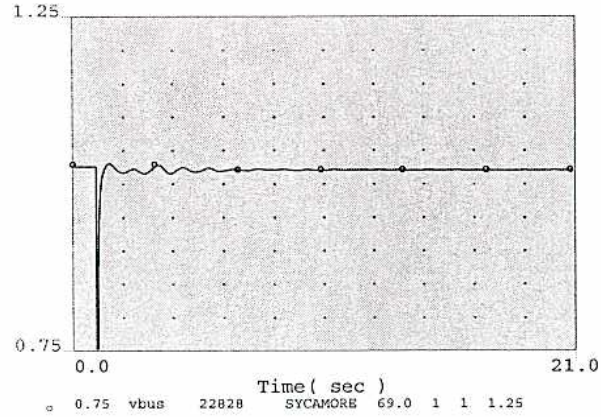




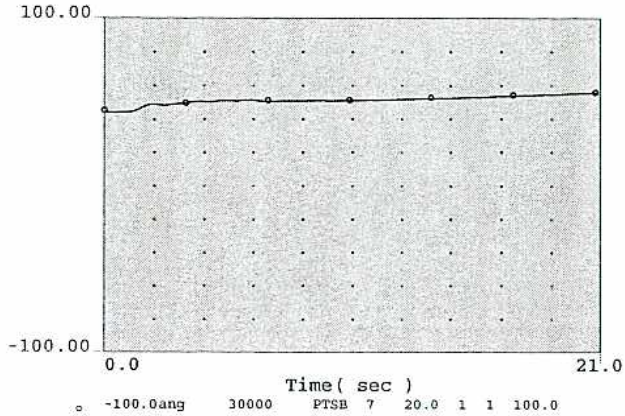


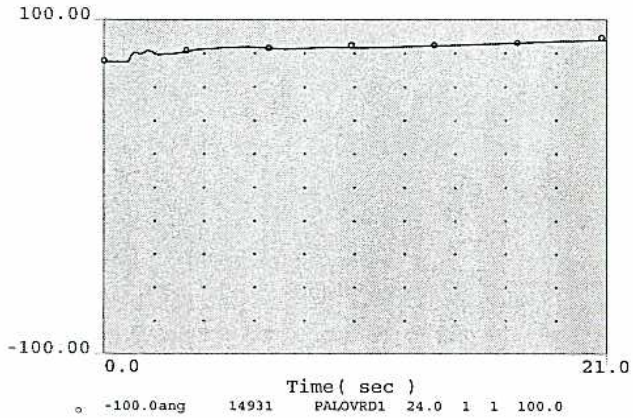


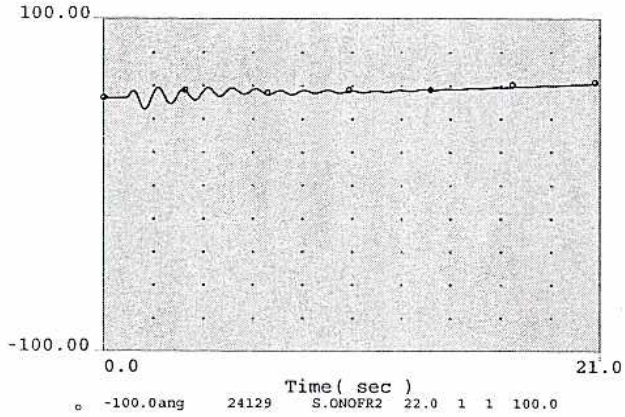


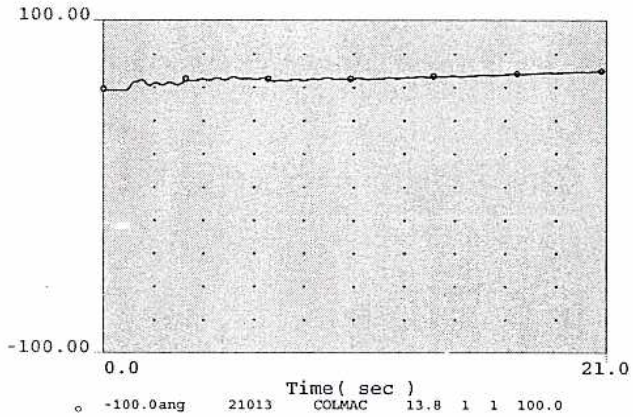


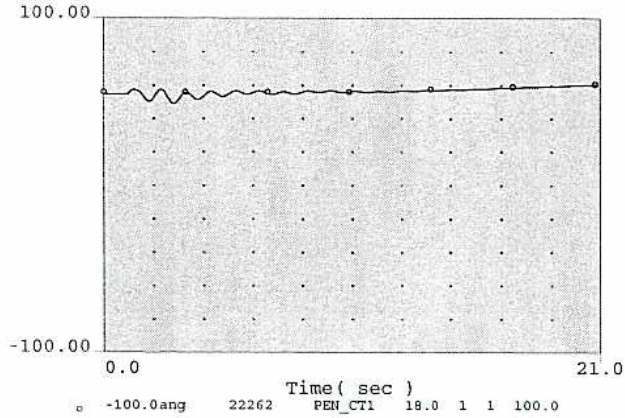
Fault bus at Imperial Valley
Trip Imperial Valley - Centralx 500 kV line

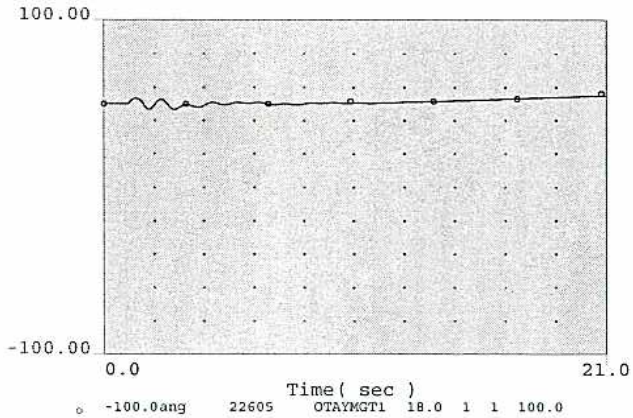




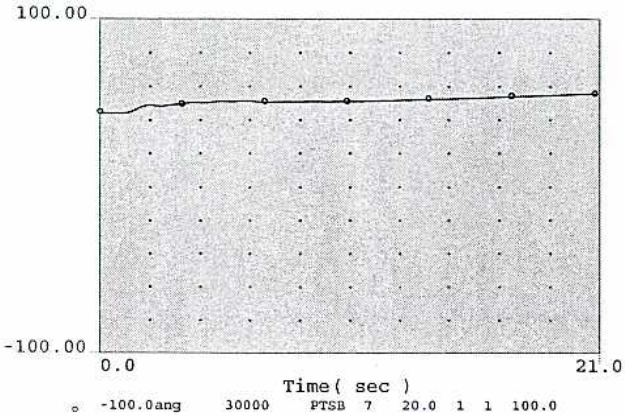


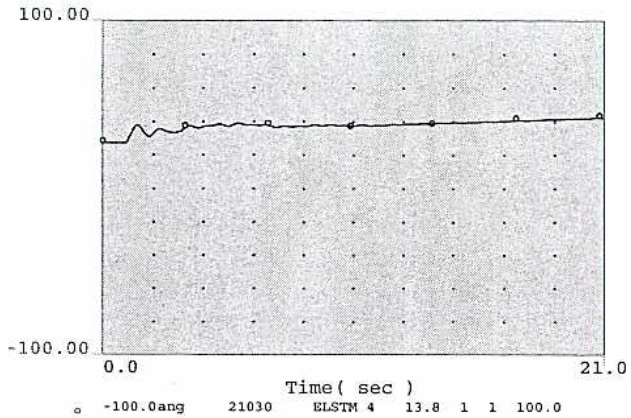


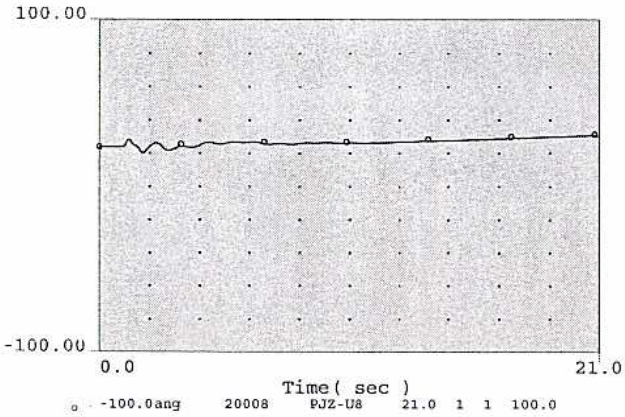


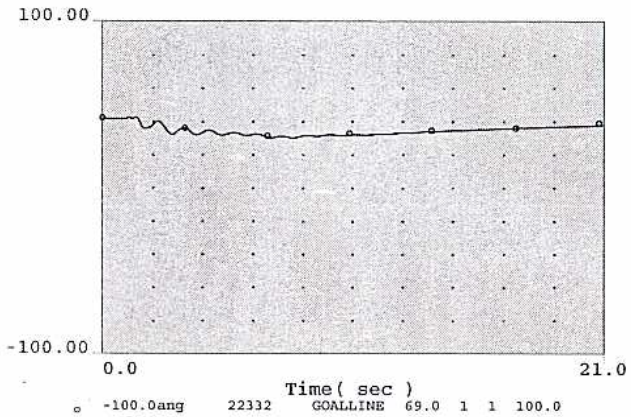


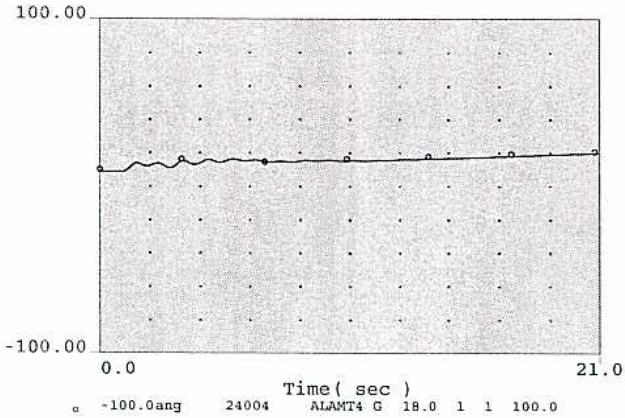
Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050

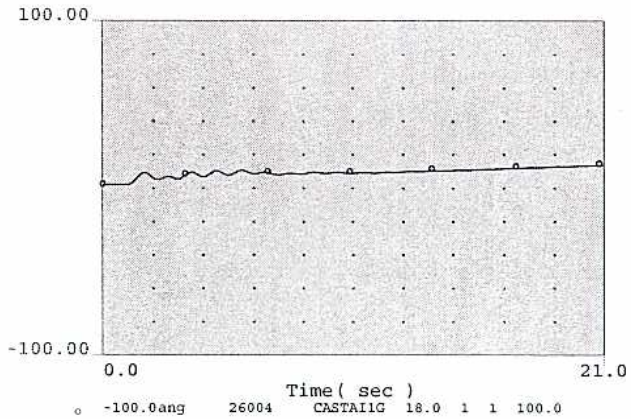




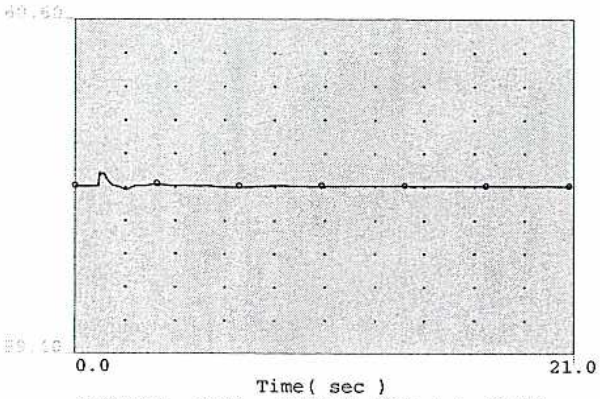




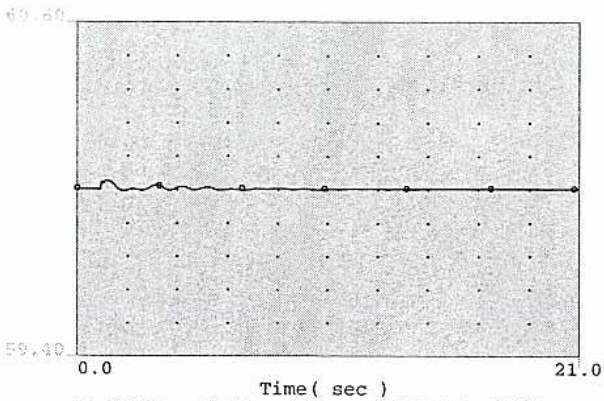




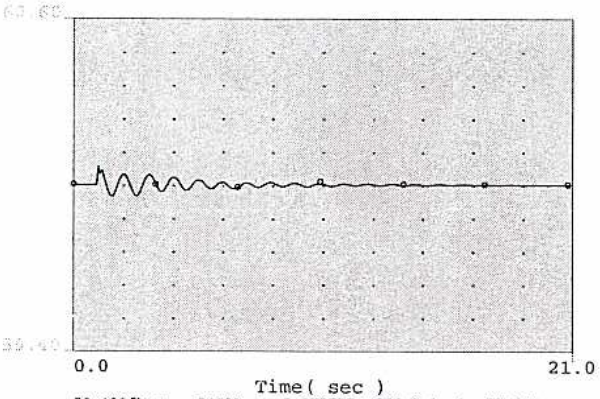
Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050



59.400fbul 14231 WESTWING 230.0 1 1 60.600



59.400fbus 24085 LUGO 230.0 1 1 60.600



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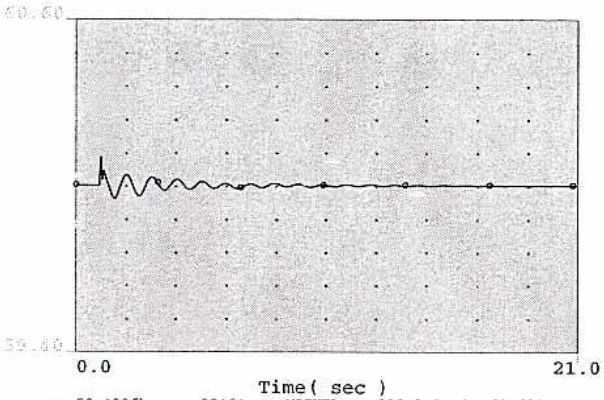

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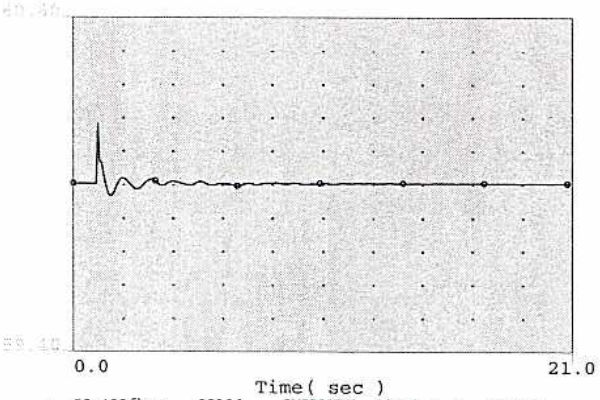
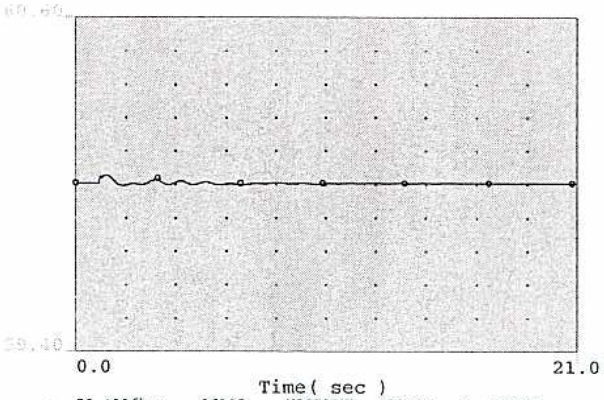
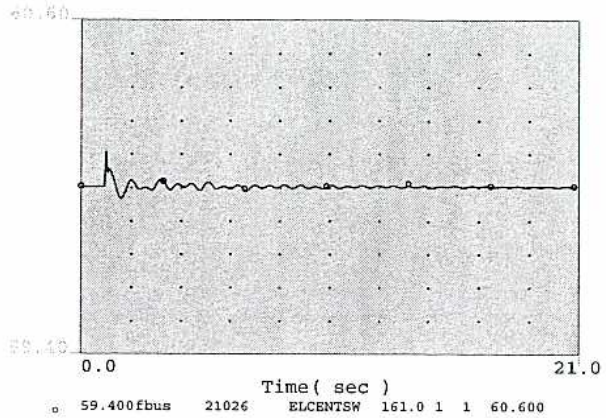


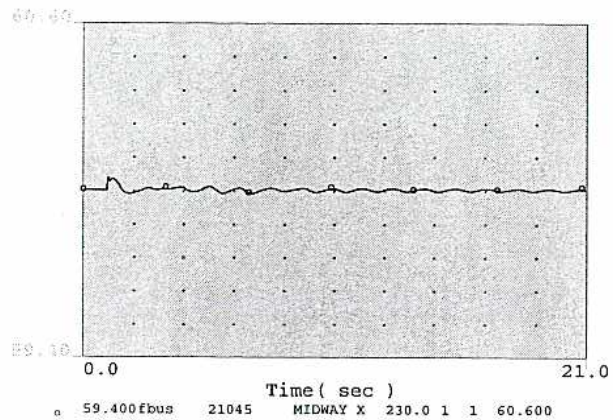
59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600

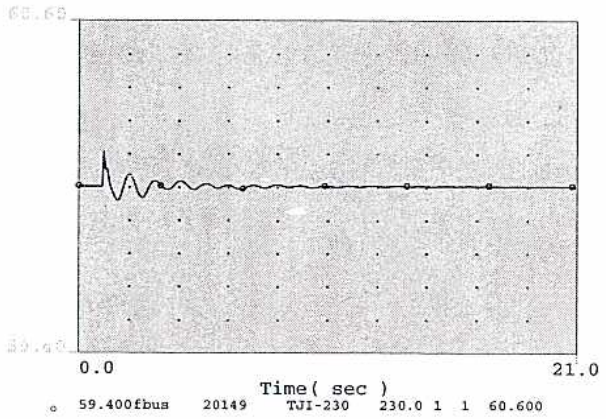


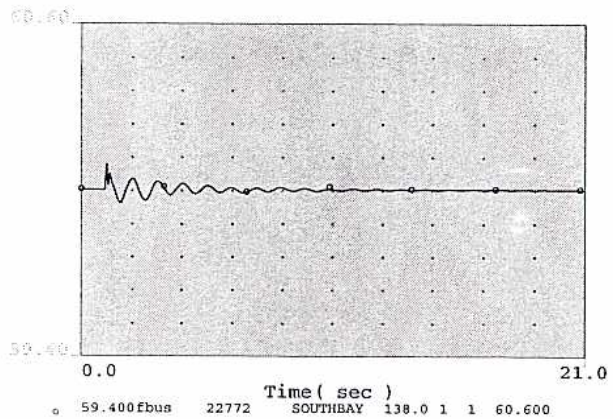
59.400fbus 26105 VICTORVL 500.0 1 1 60.600

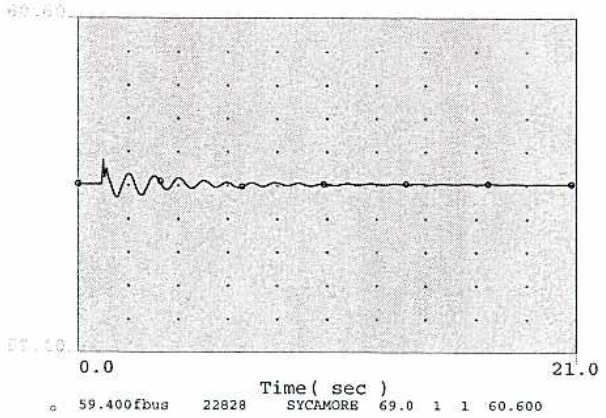
Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050

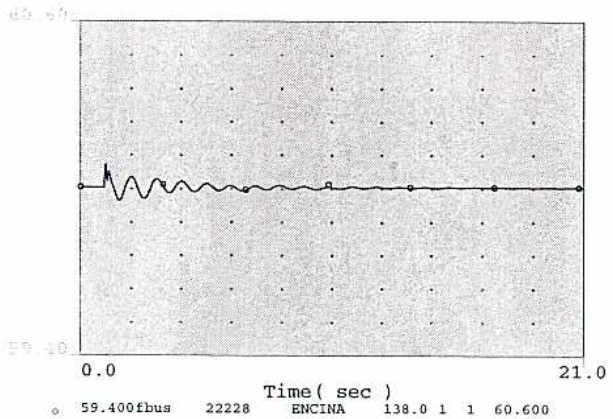




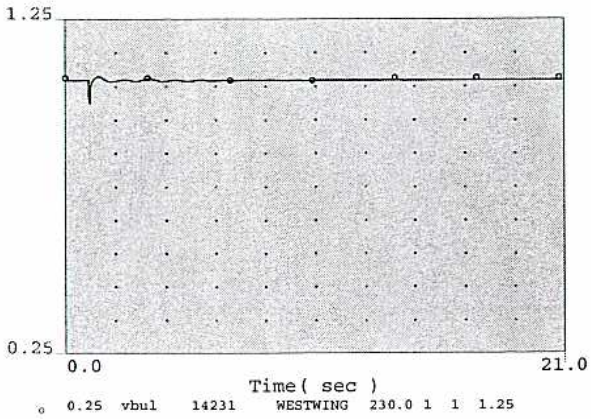


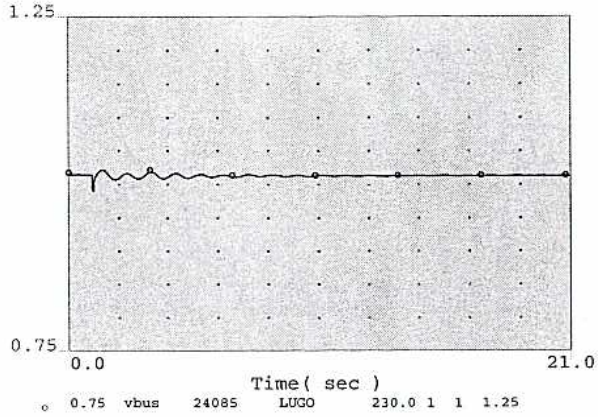


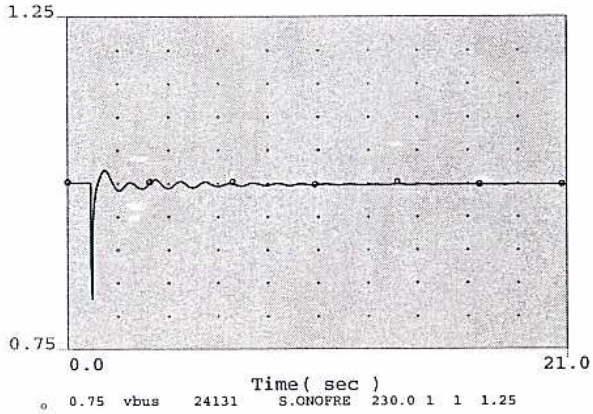


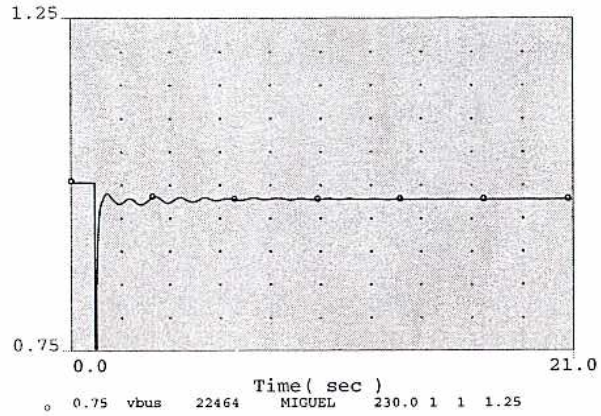


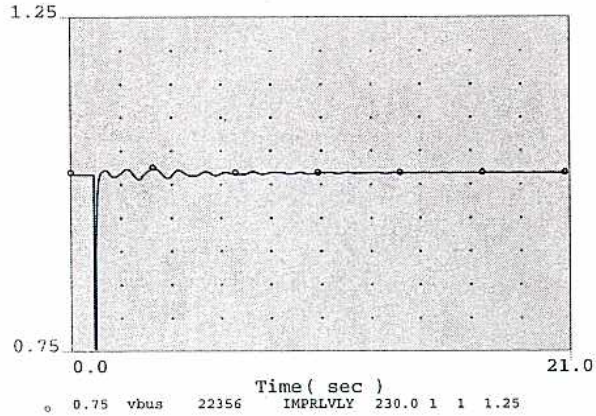
Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050

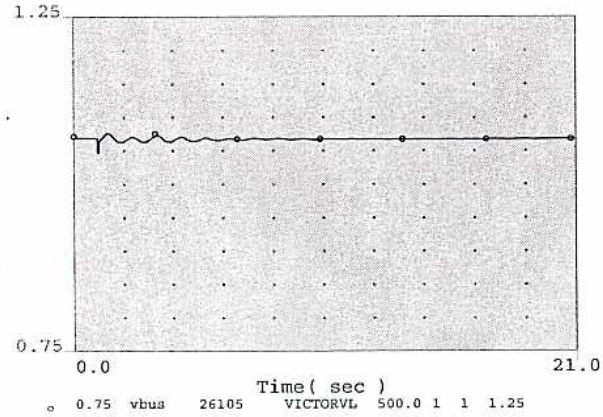




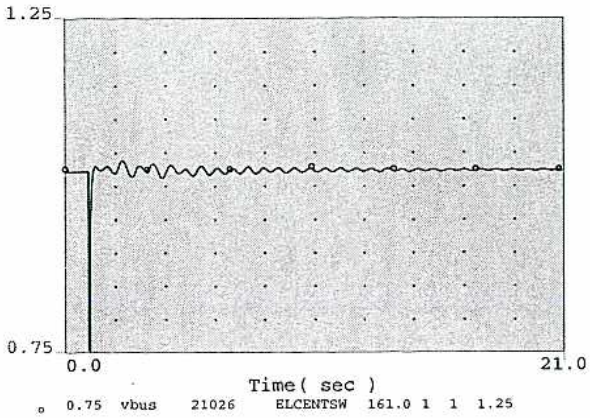


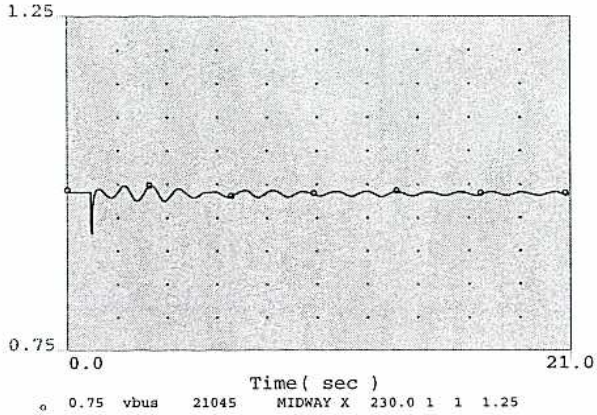


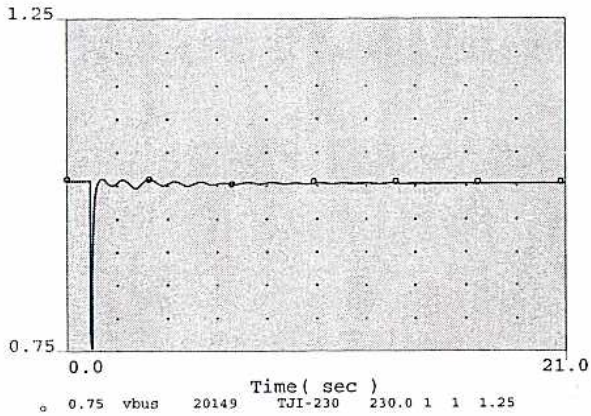


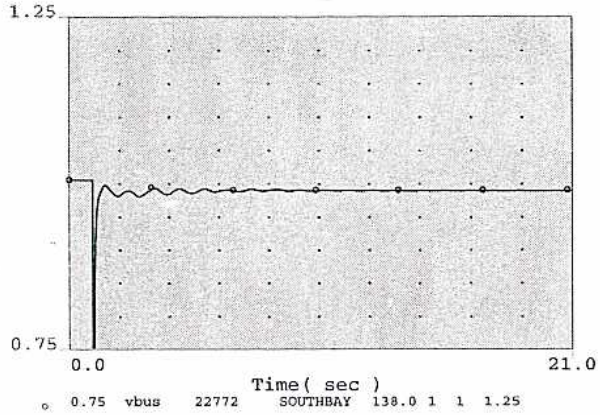


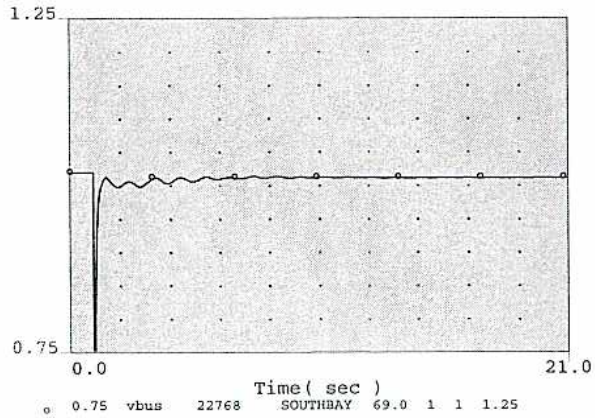
Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050

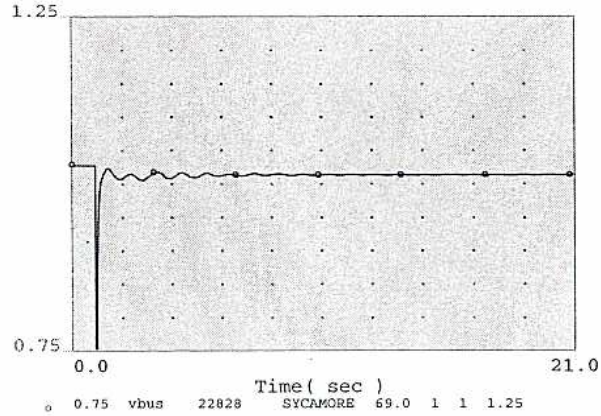




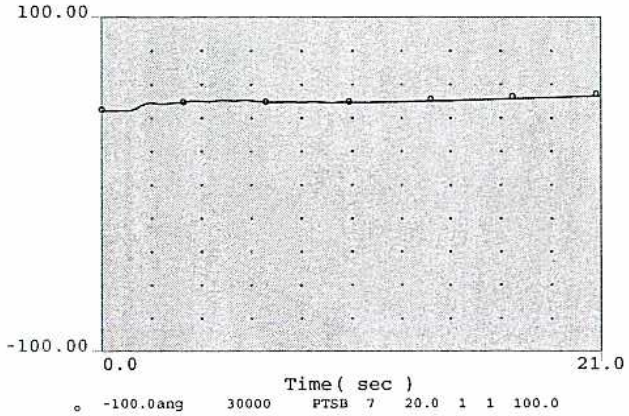


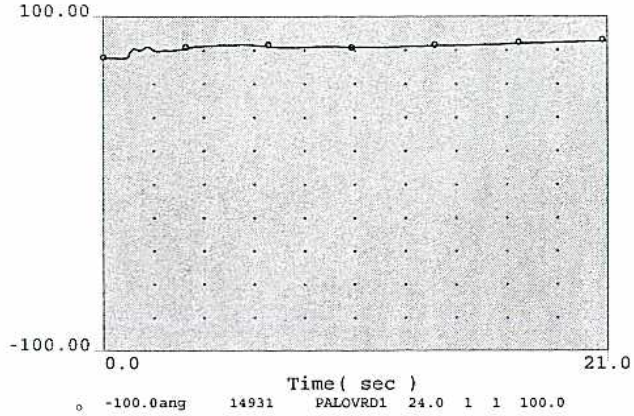


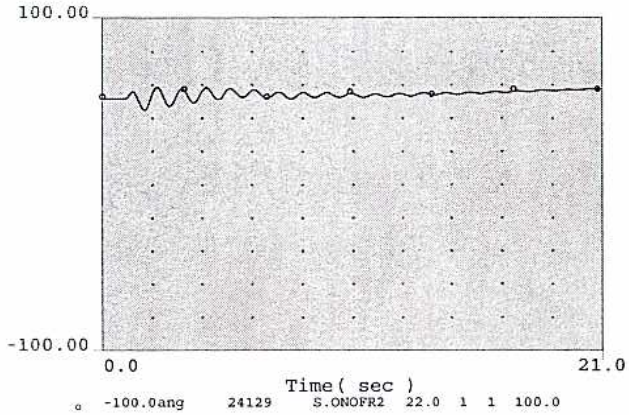


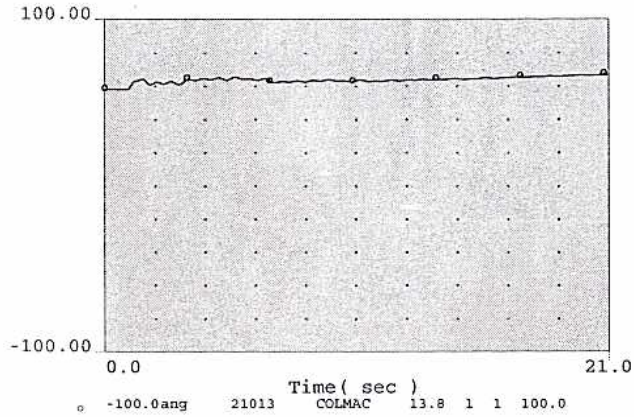


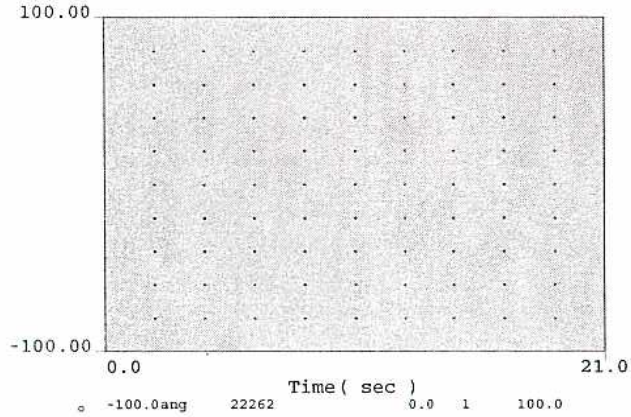
Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050

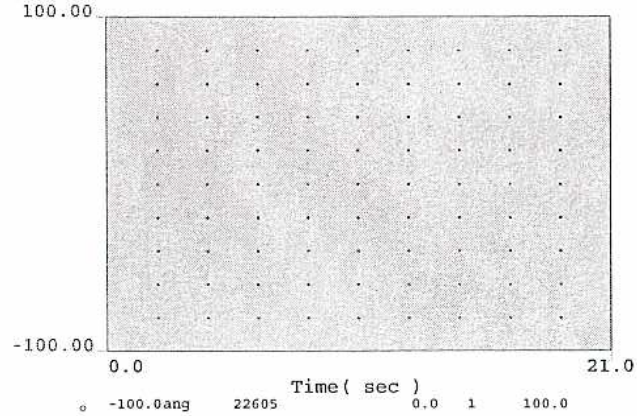




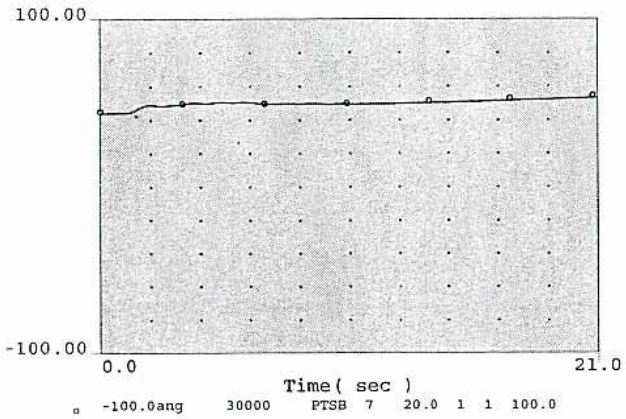


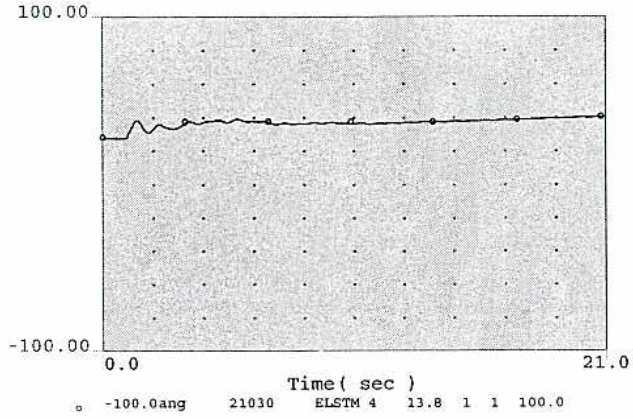


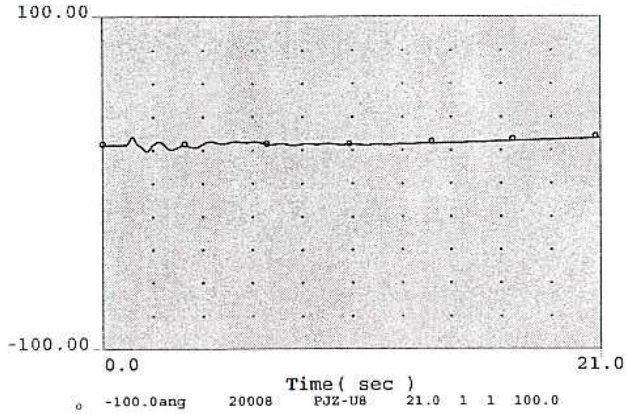


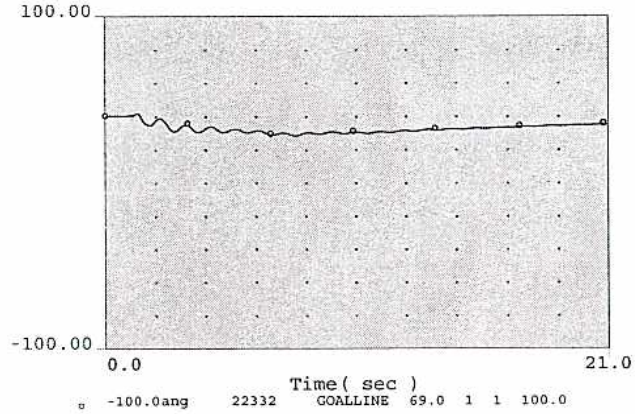


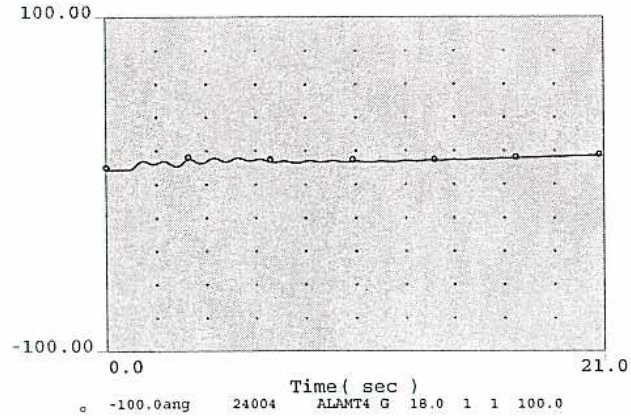
Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050

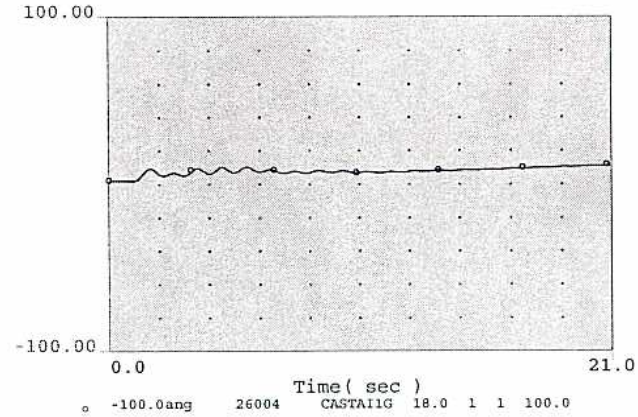




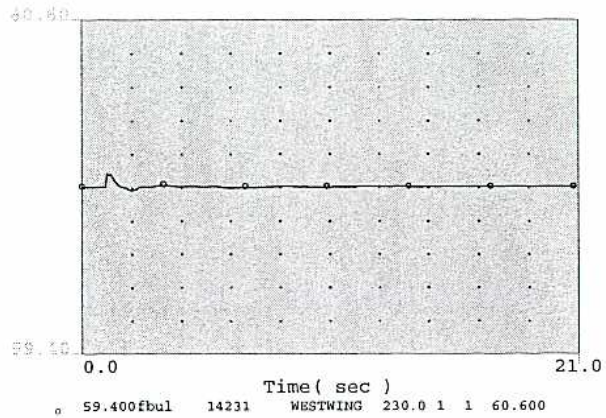


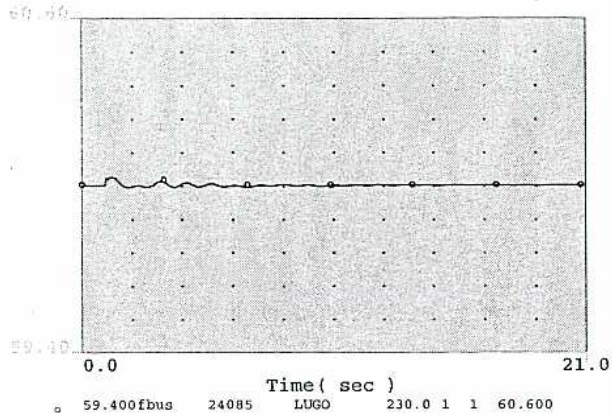


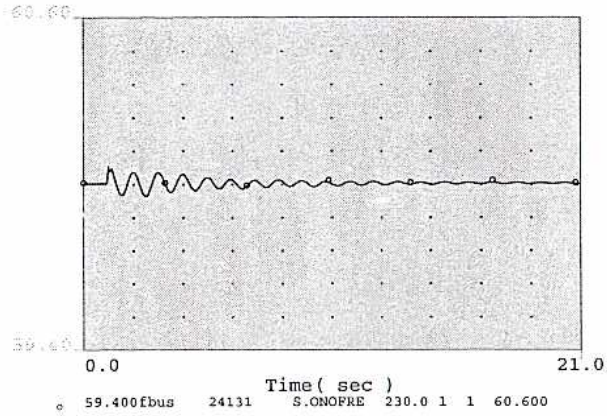


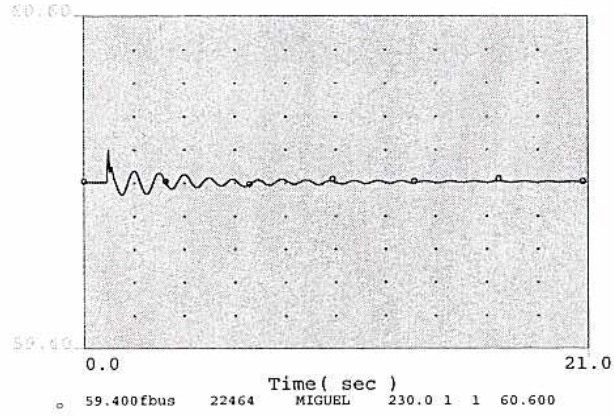


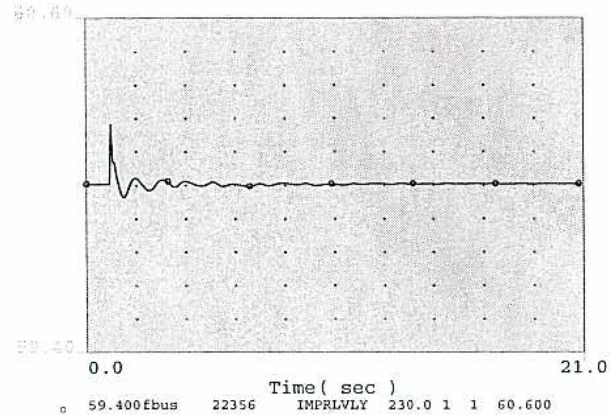
Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050

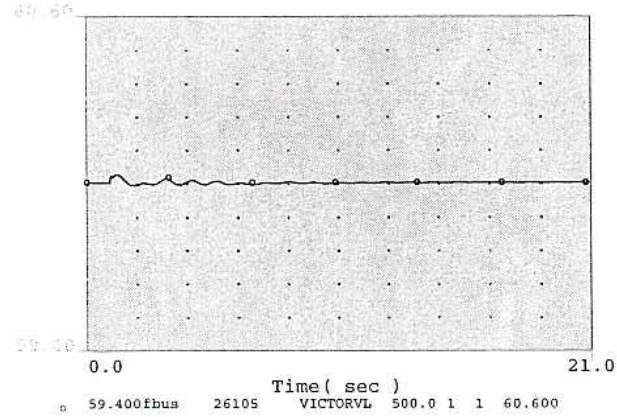




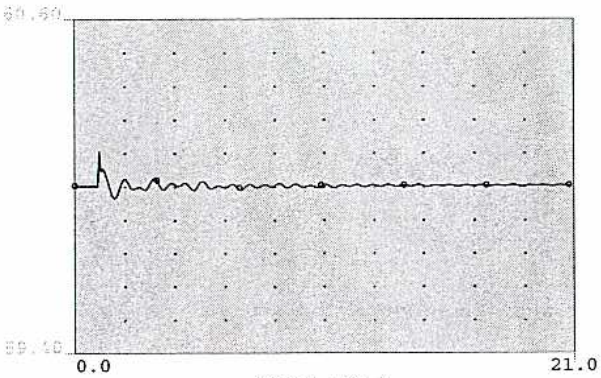




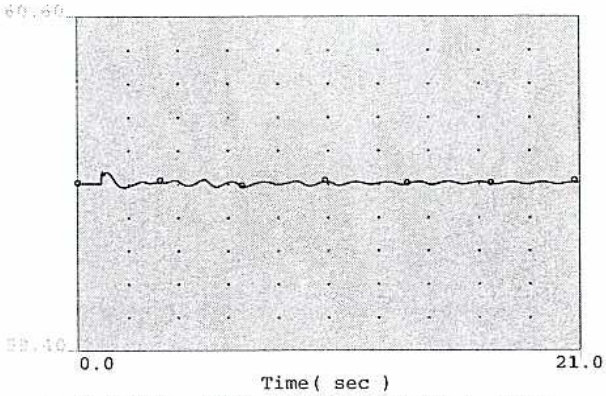




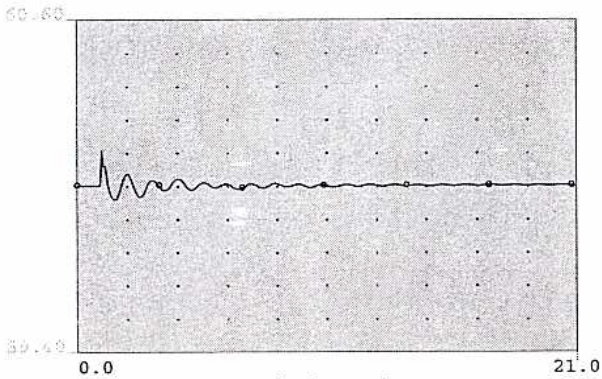
Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050



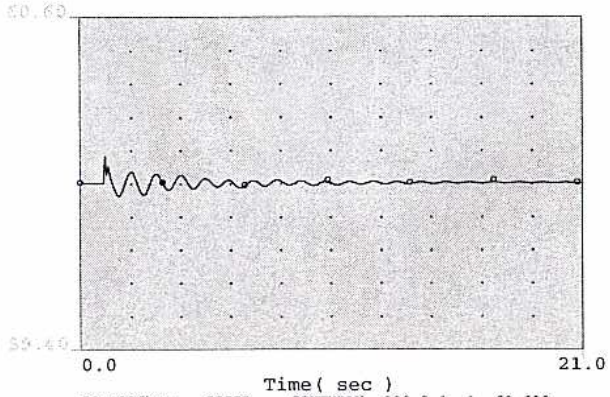
59.400fbus 21026 ELCENTSW 161.0 1 1 60.600



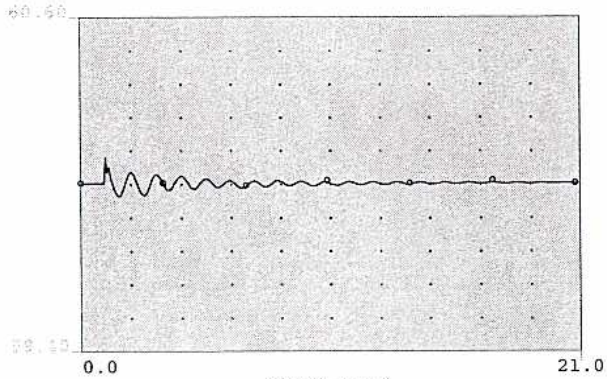
59.400fbus 21045 MIDWAY X 230.0 1 1 60.600



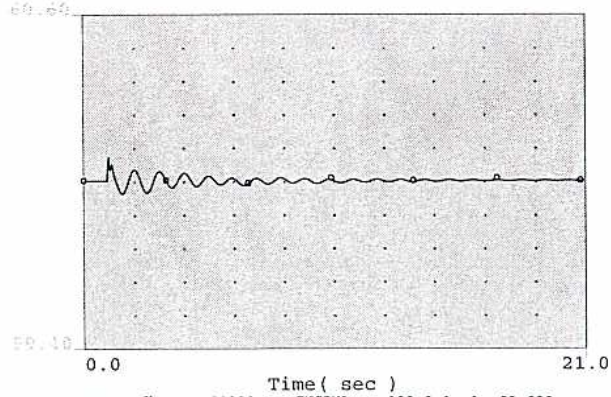
59.400fbus 20149 TJI-230 230.0 1 1 60.600



59.400fbus 22772 SOUTHBAY 138.0 1 1 60.600

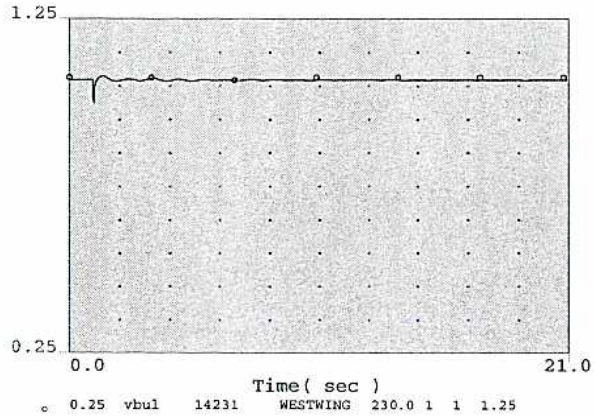


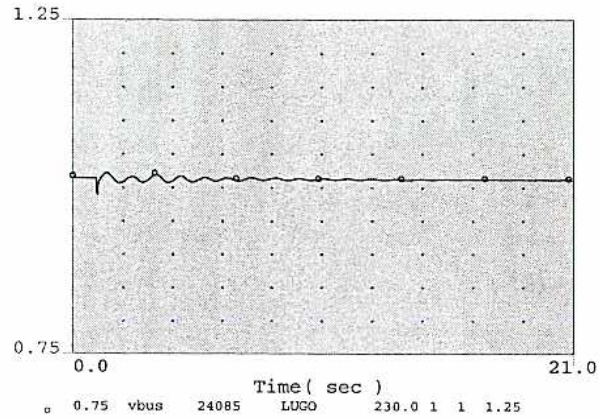
59.400fbus 22828 SYCAMORE 69.0 1 1 60.600

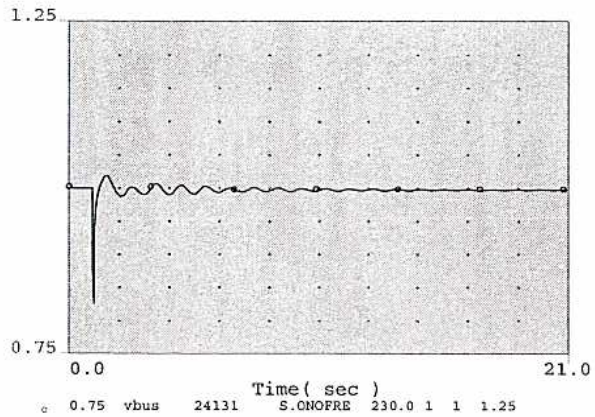


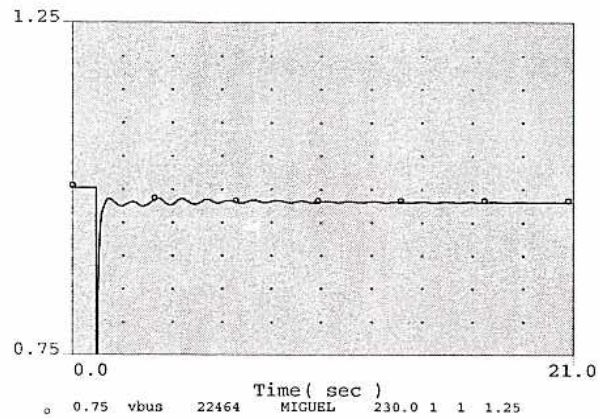
59.400fbus 22228 ENCINA 138.0 1 1 60.600

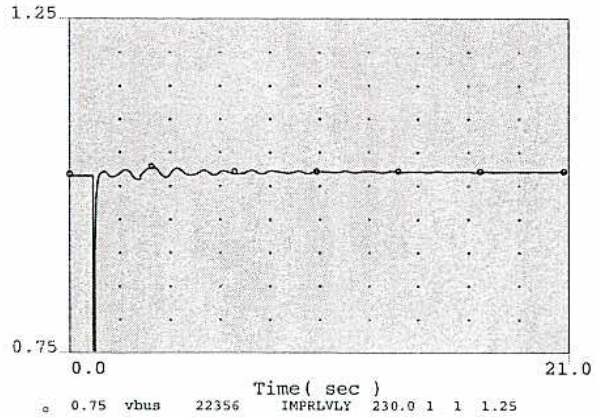
Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050

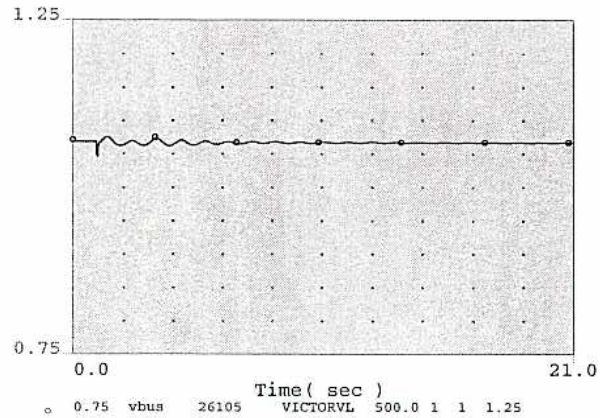




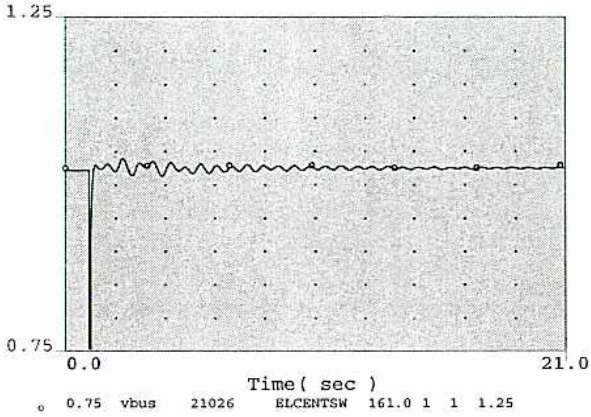


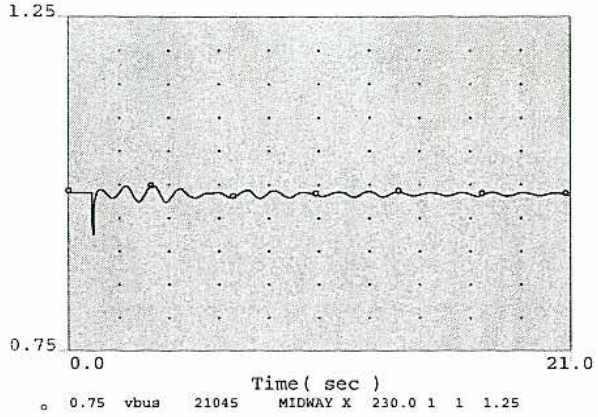


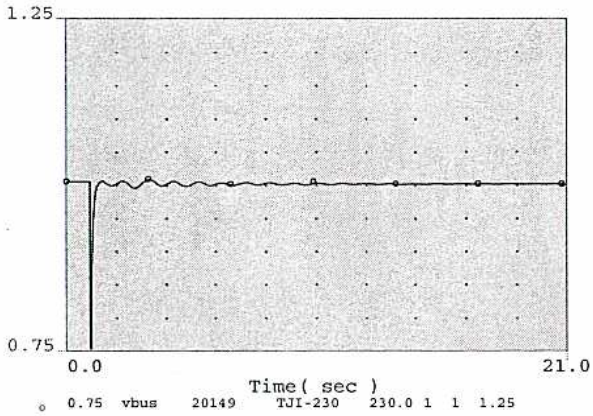


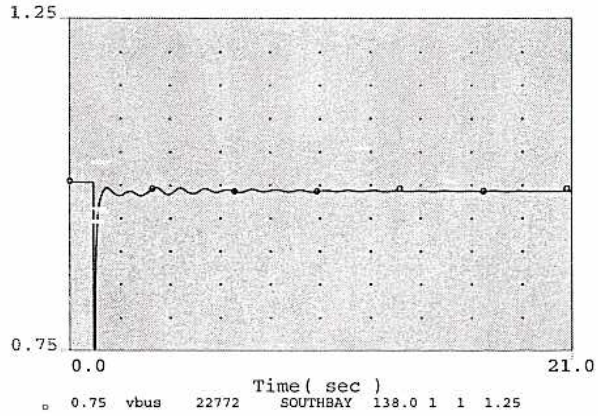


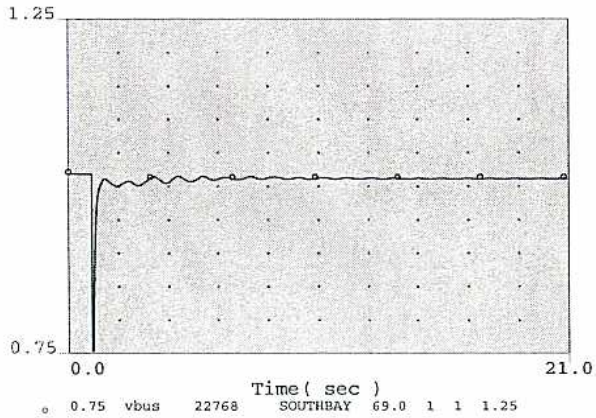
Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050

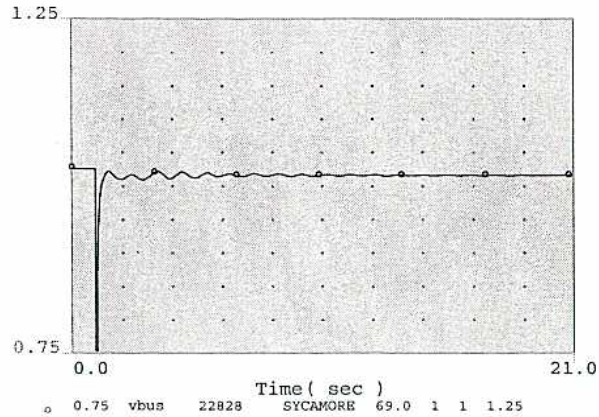




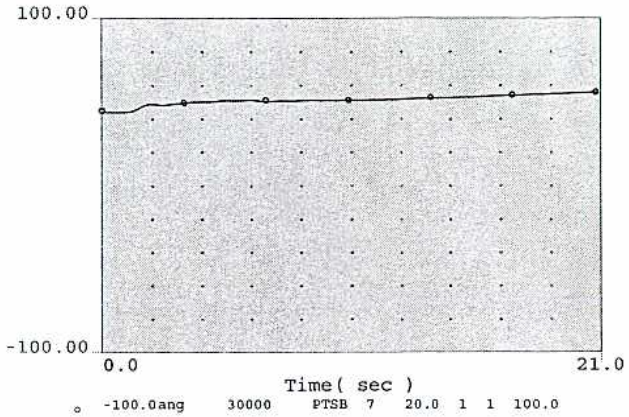








Fault bus at Imperial Valley
Trip Imperial Valley - Miguel line
Trip 23050



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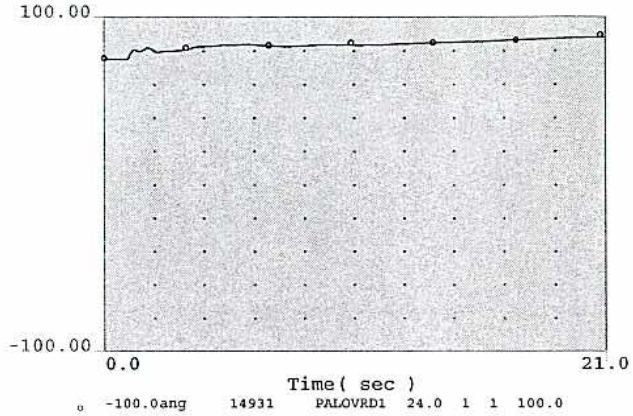

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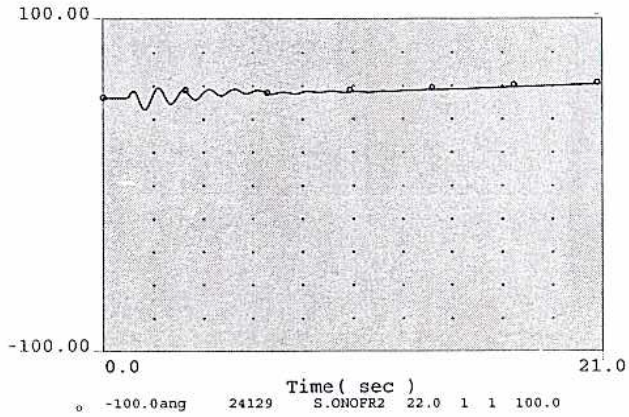
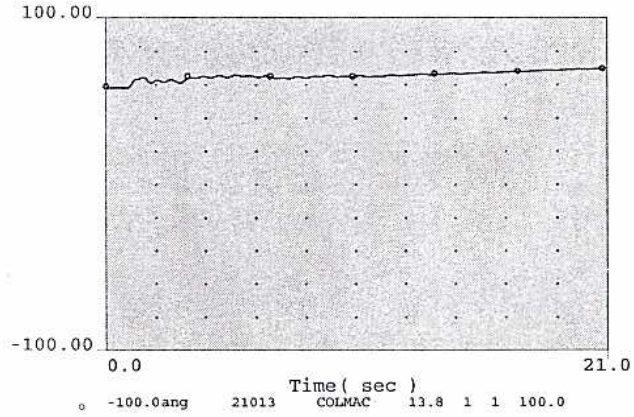
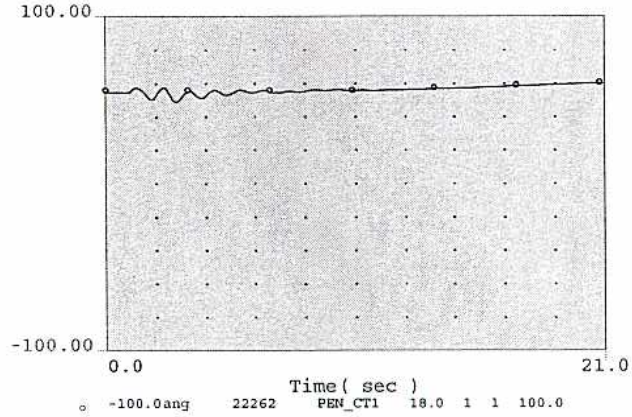


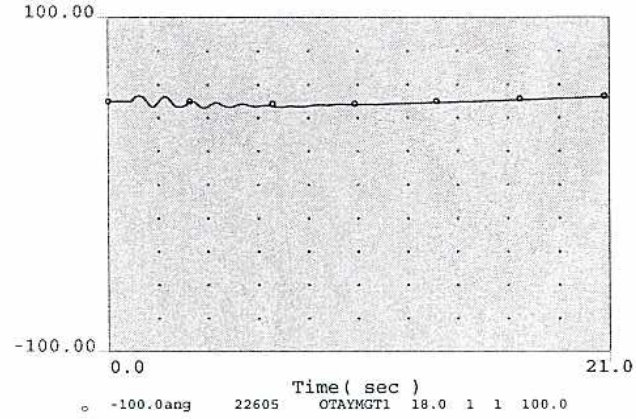
-100.0ang 24129 S.ONOFR2 22.0 1 1 100.0



-100.0ang 21013 COLMAC 13.8 1 1 100.0

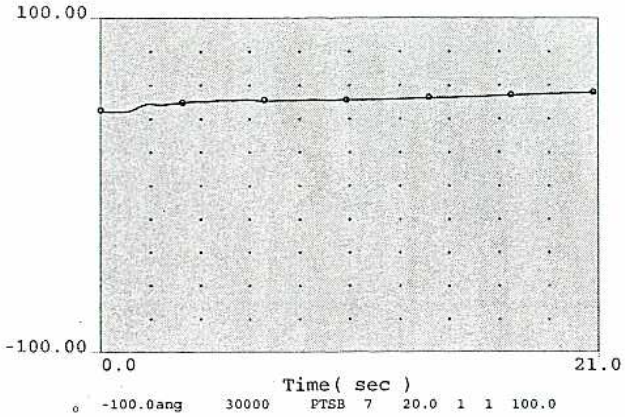


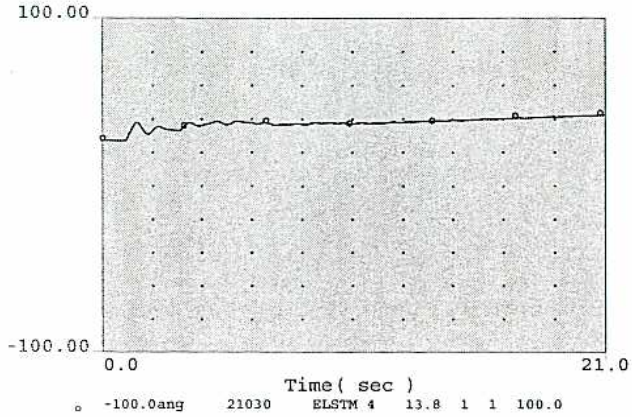
-100.0ang 22262 PEN_CT1 18.0 1 1 100.0

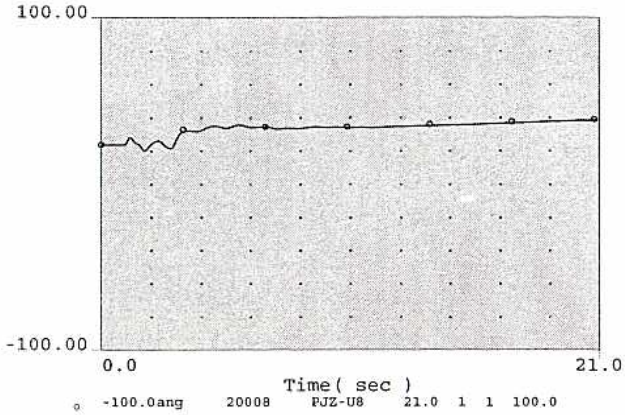


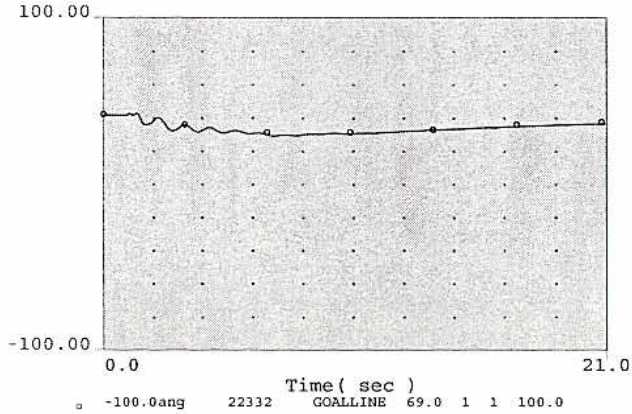
-100.0ang 22605 OTAYMGT1 18.0 1 1 100.0

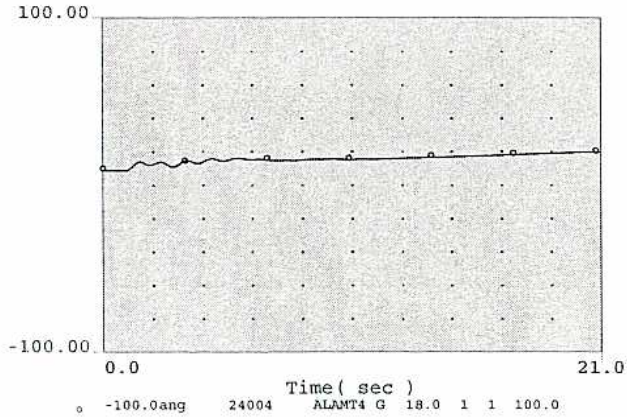
Fault bus at Inmperial Valley
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA

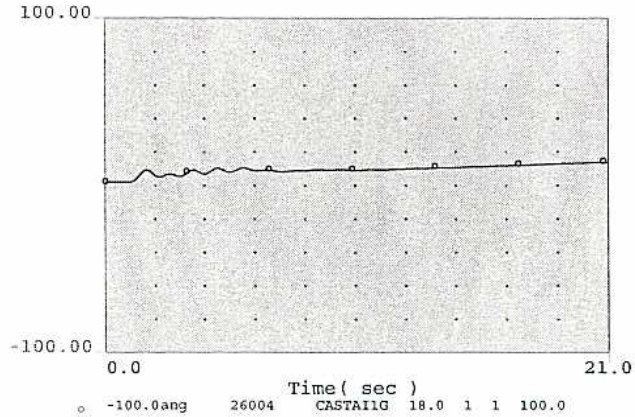




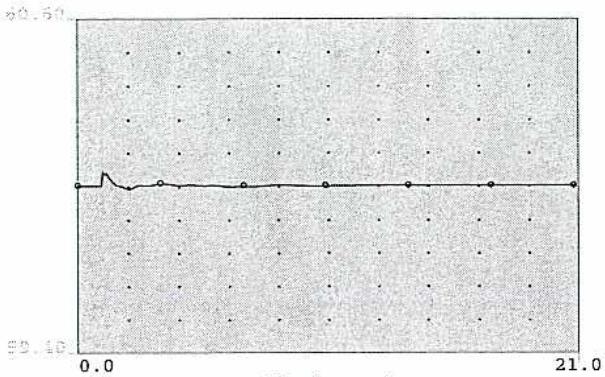




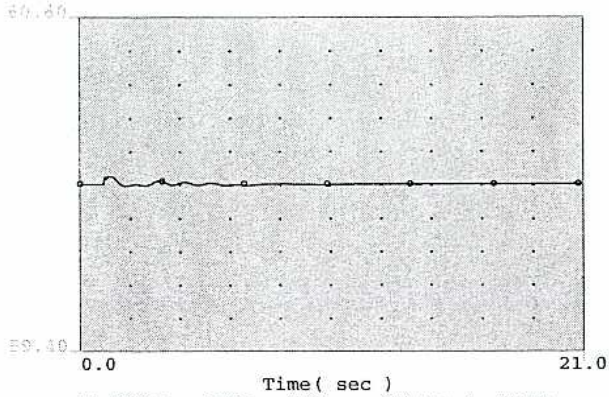




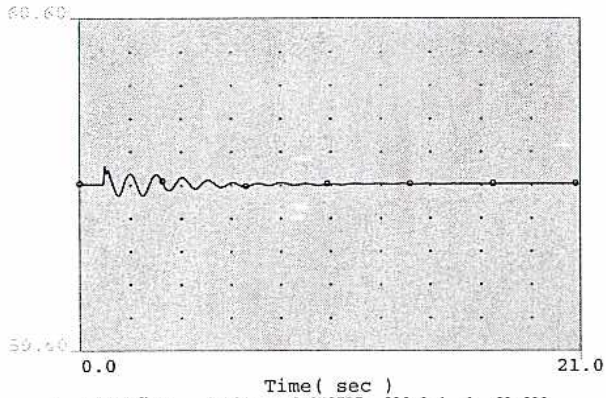
Fault bus at Inmperial Valley
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA



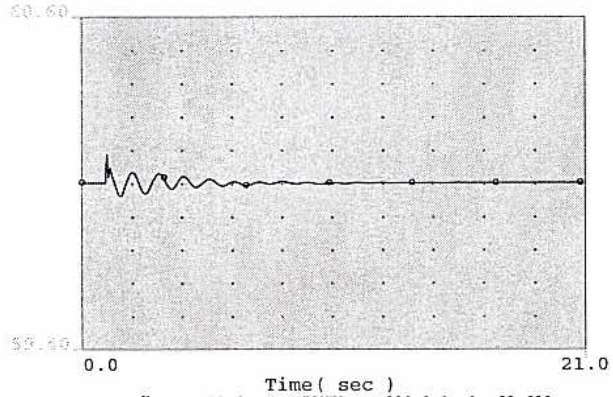
59.400fbul 14231 WESTWING 230.0 1 1 60.600



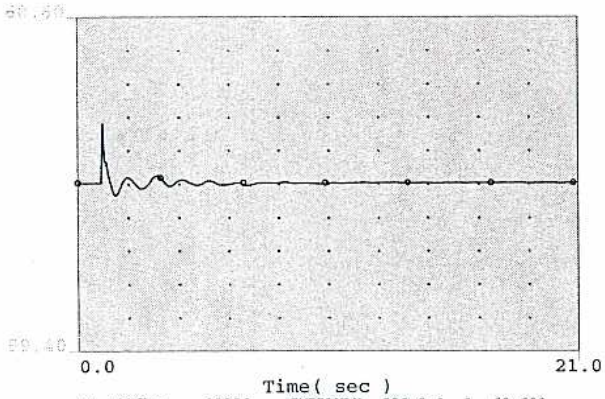
59.400fbus 24085 LUGO 230.0 1 1 60.600



59.400fbus 24131 S.ONOFRE 230.0 1 1 60.600



59.400fbus 22464 MIGUEL 230.0 1 1 60.600



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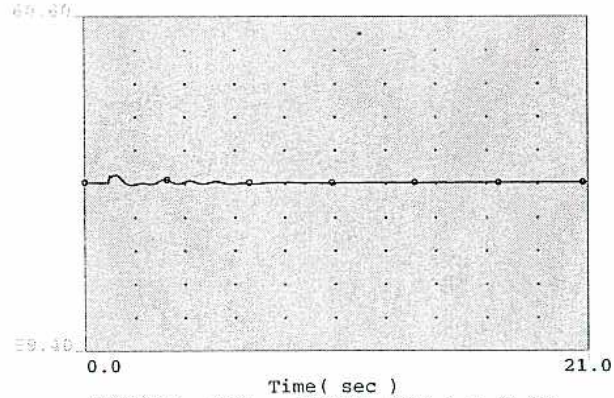

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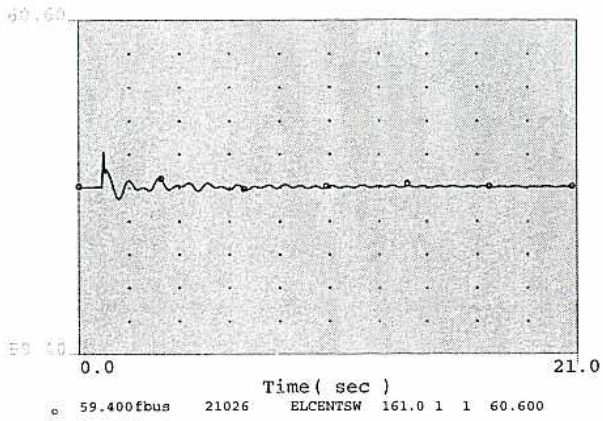
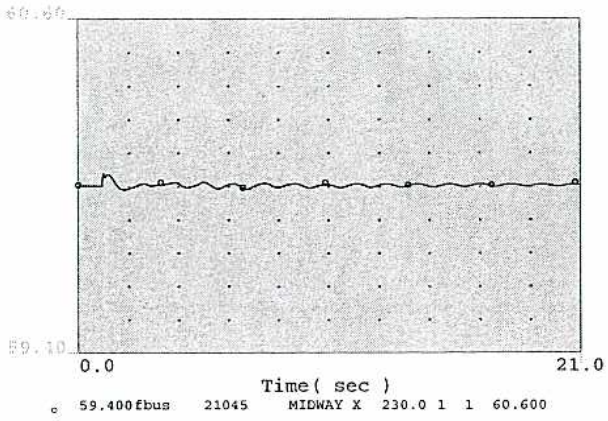
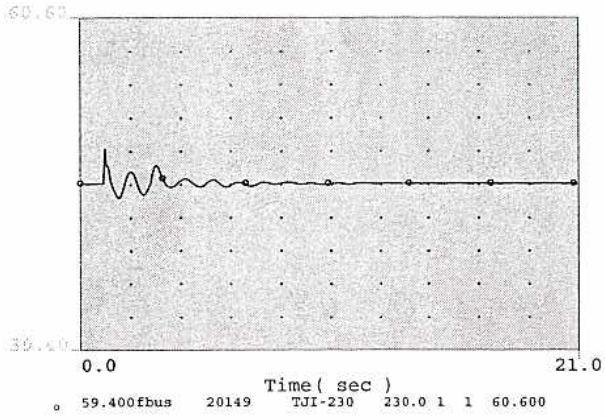
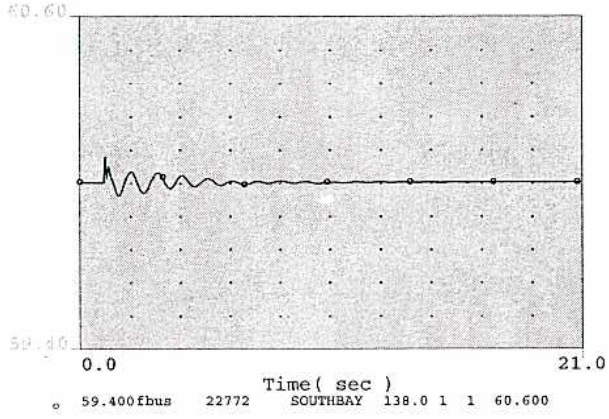
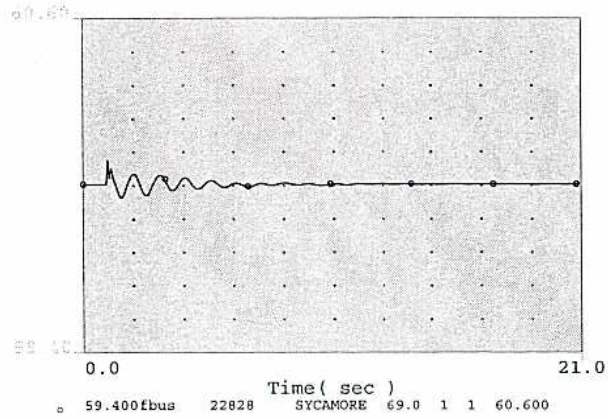
Fault bus at Inmperial Valley
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA

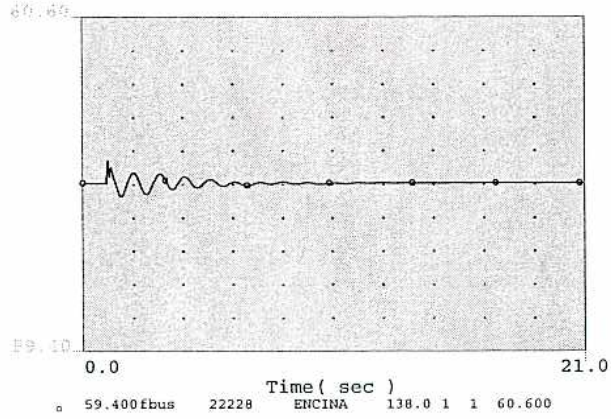




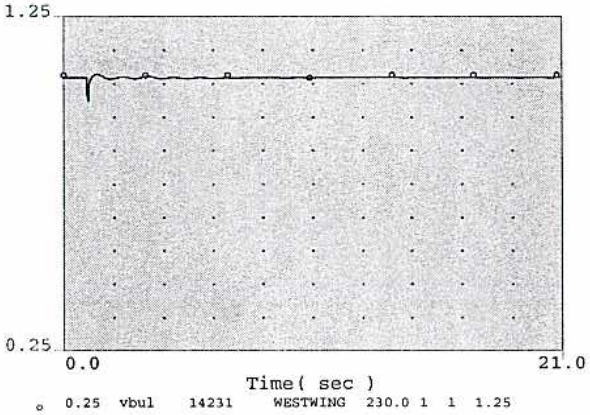


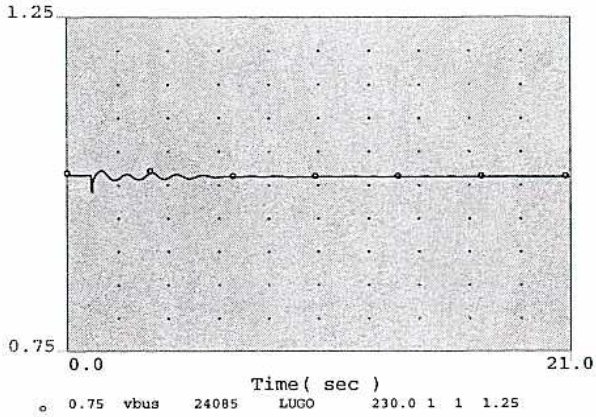


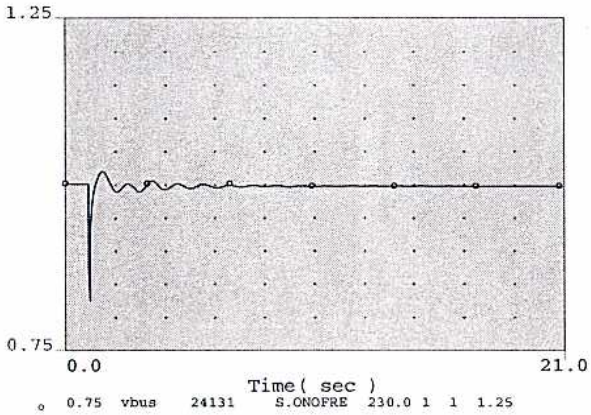


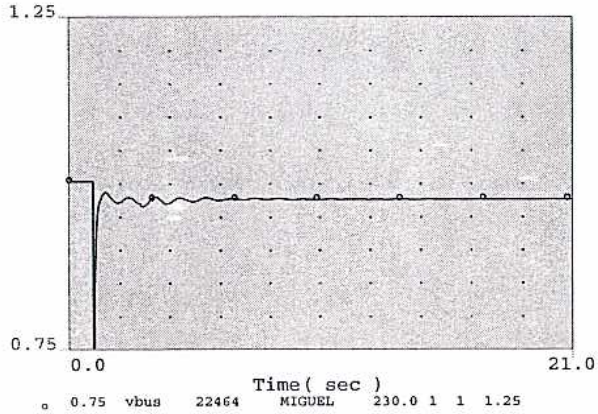


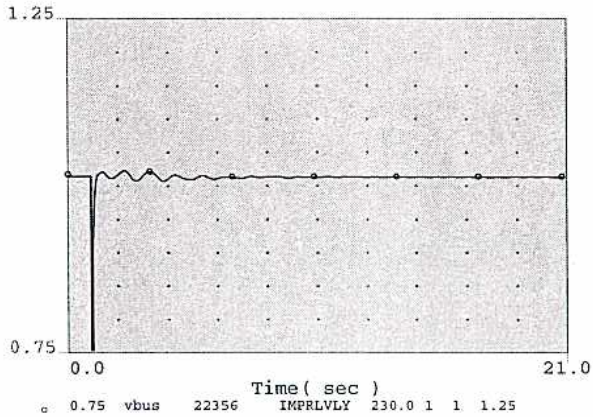
Fault bus at Inmperial Valley
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA

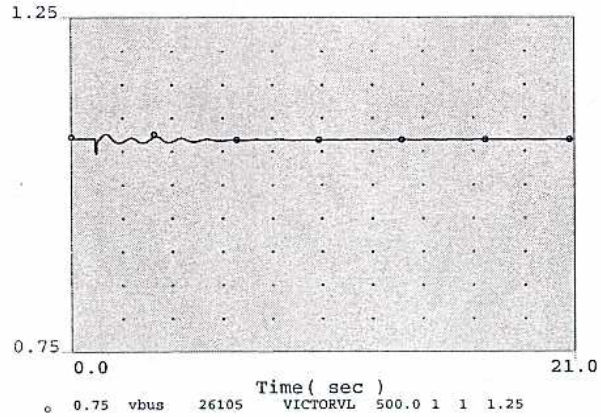




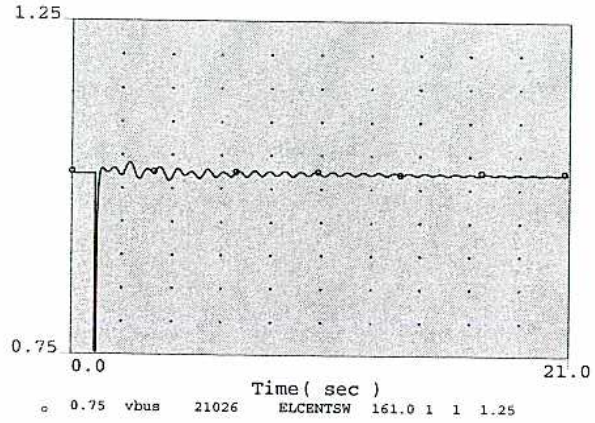


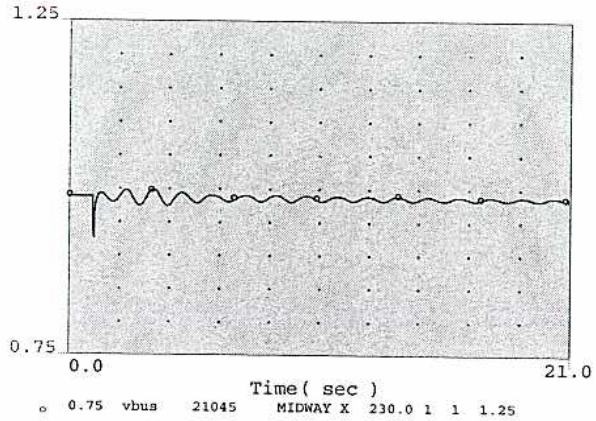


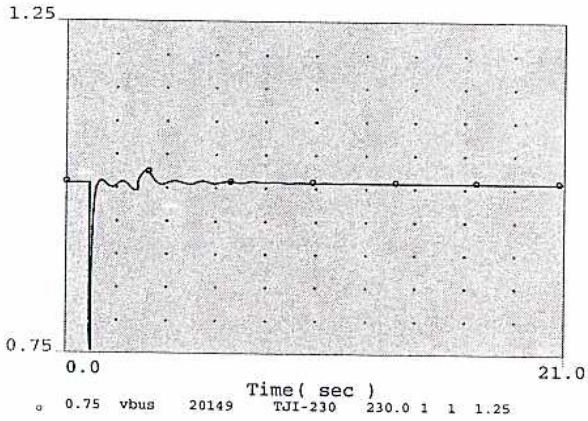


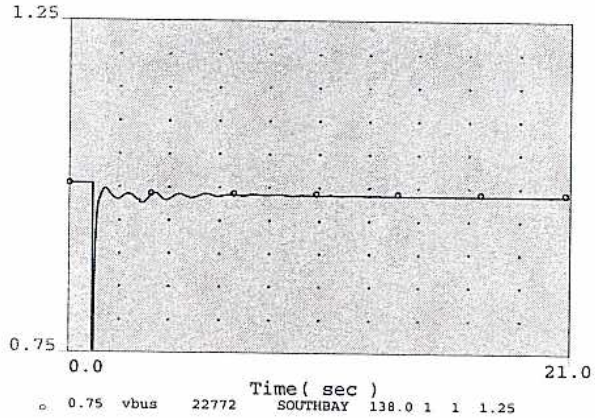


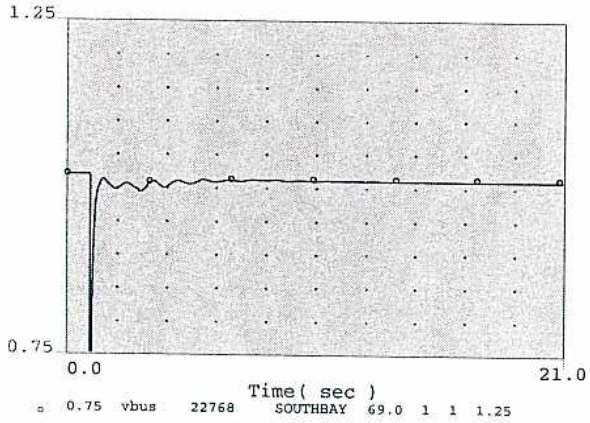
Fault bus at Inmperial Valley
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA

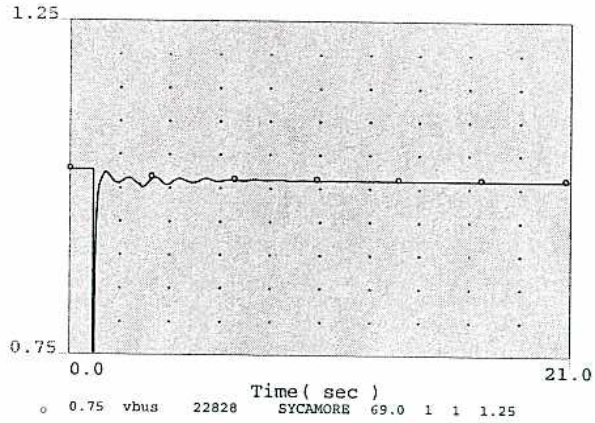












Fault bus at Inmperial Valley
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA

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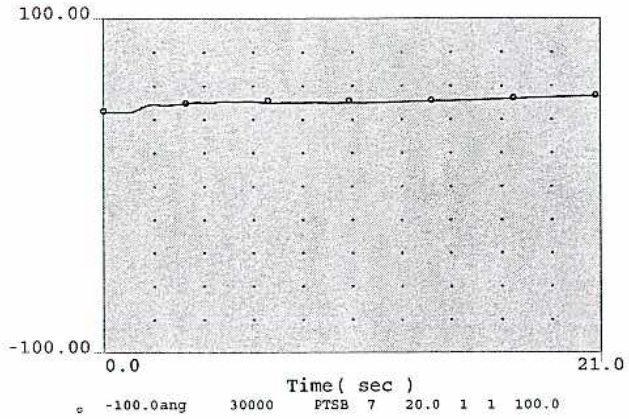
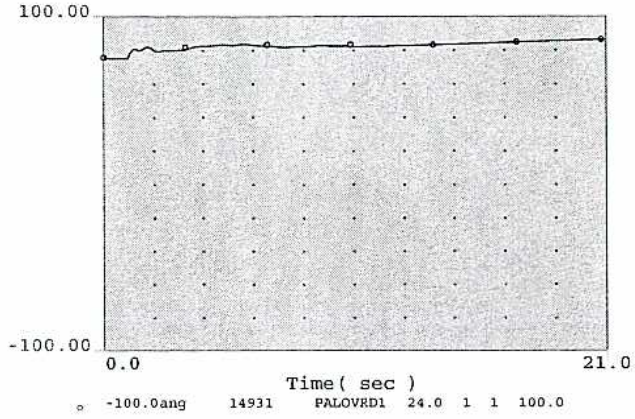
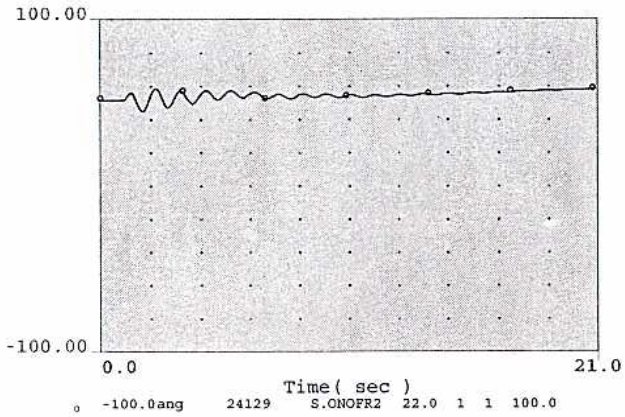
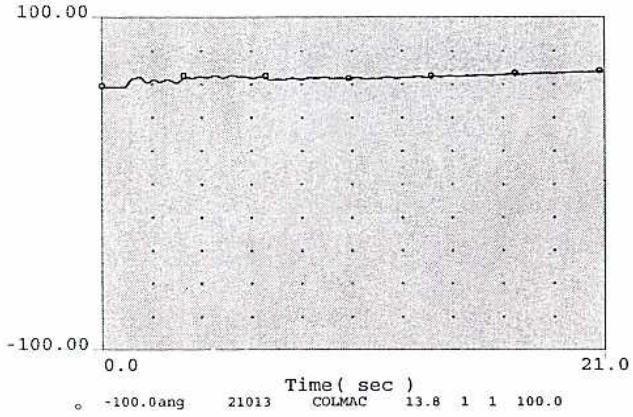
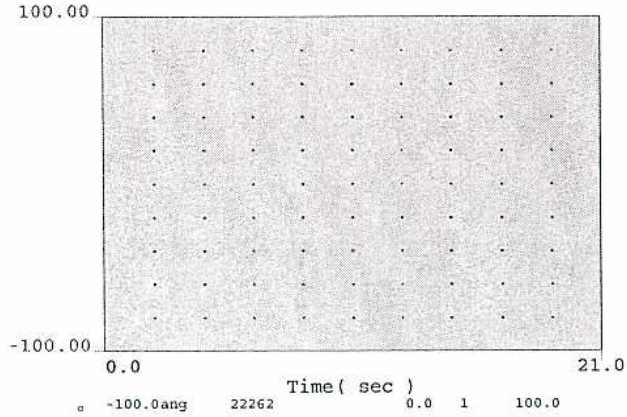
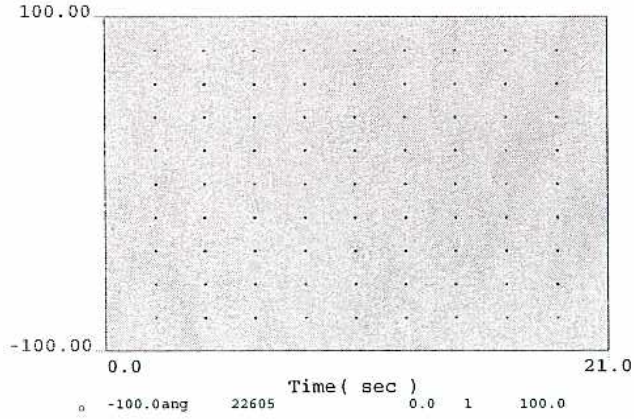




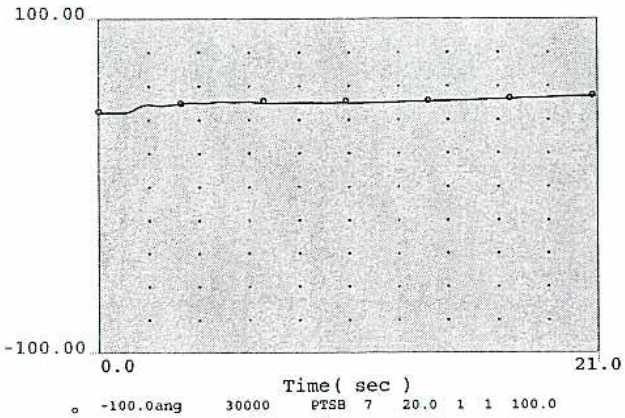


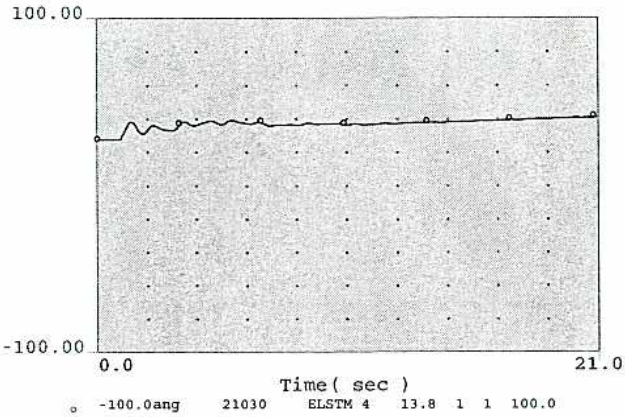


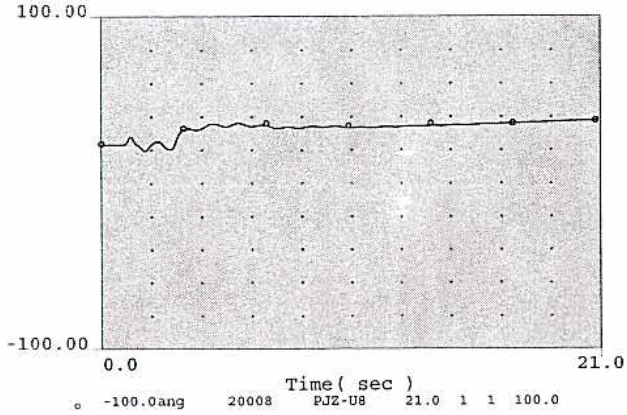


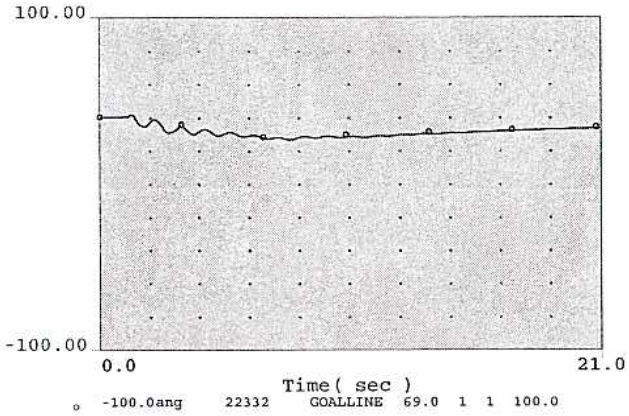


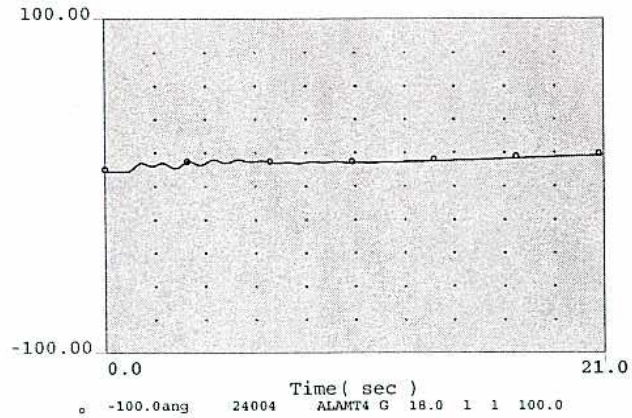
Fault bus at Inmperial Valley
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA

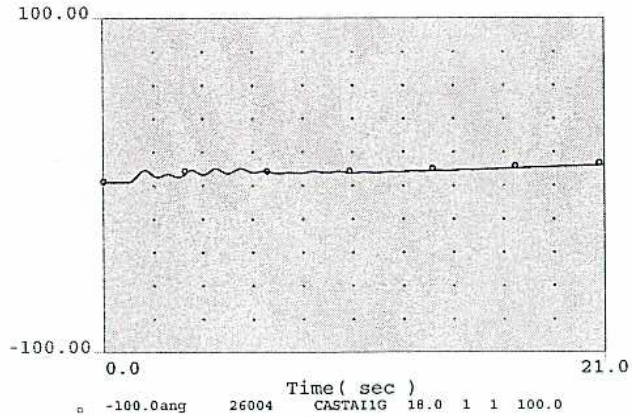




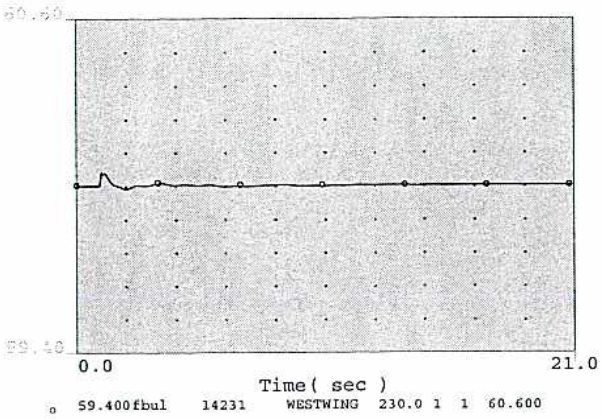


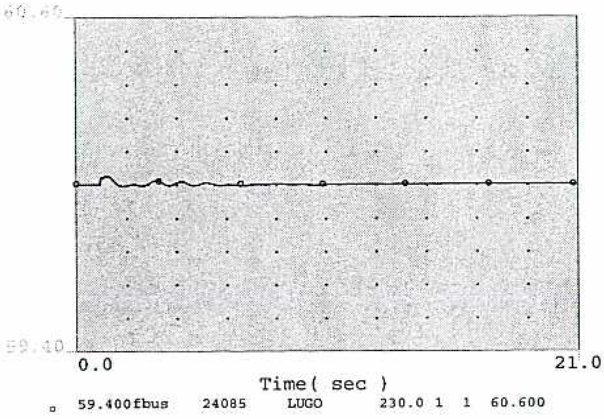


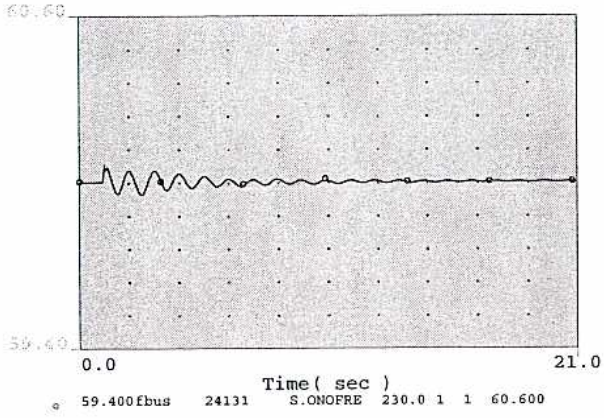


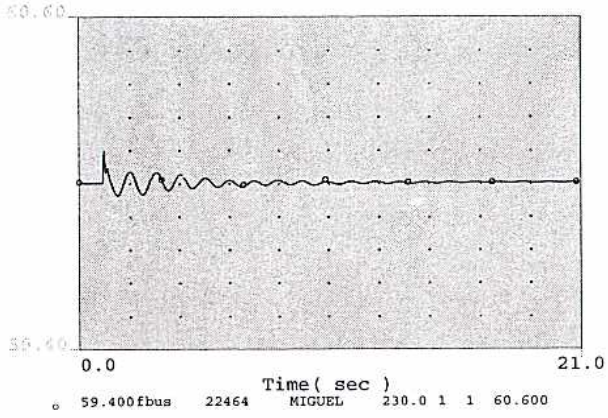


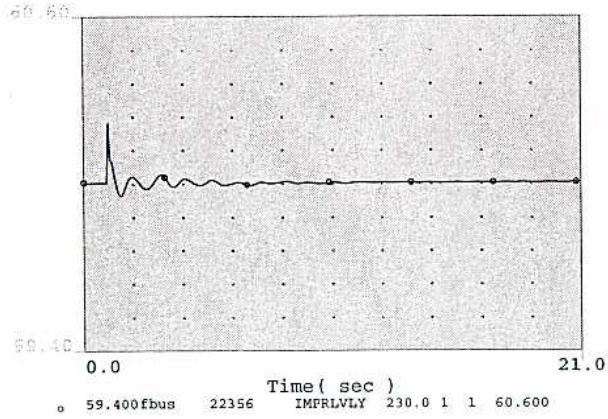
Fault bus at Inmperial Valley
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA

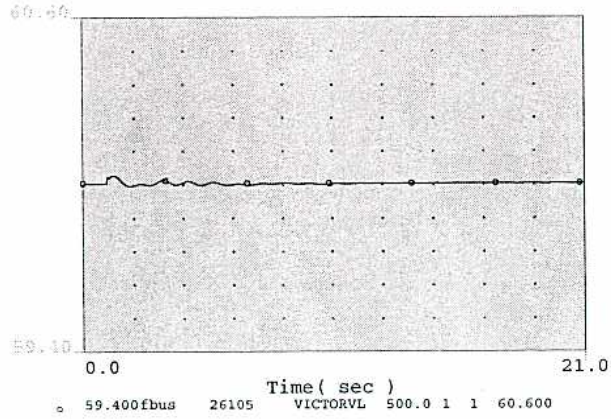




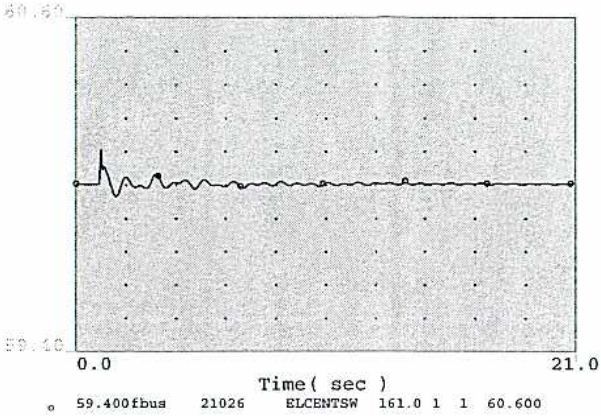


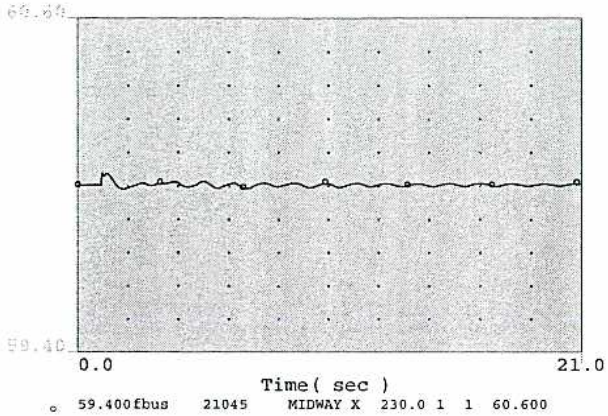


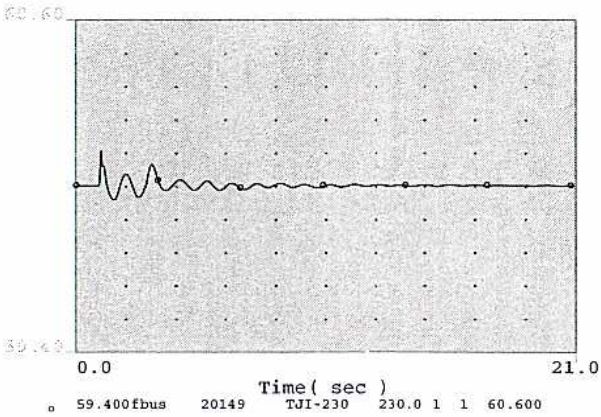


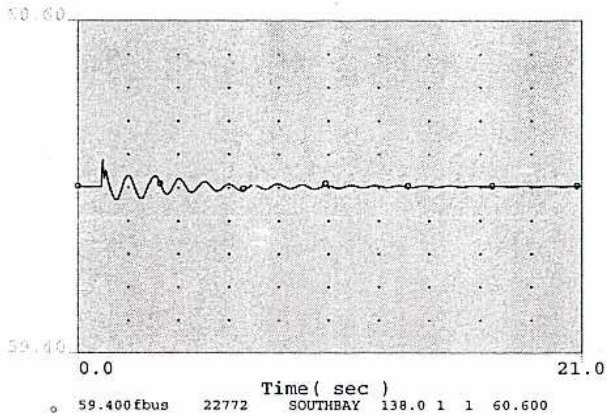


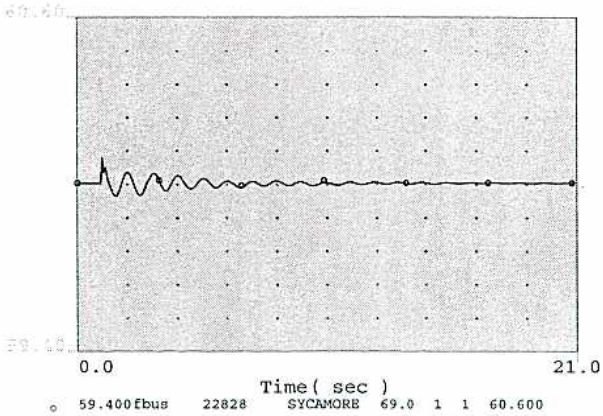
Fault bus at Inmperial Valley
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA

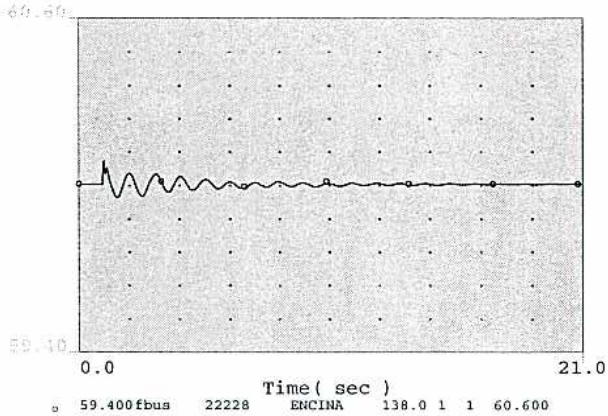




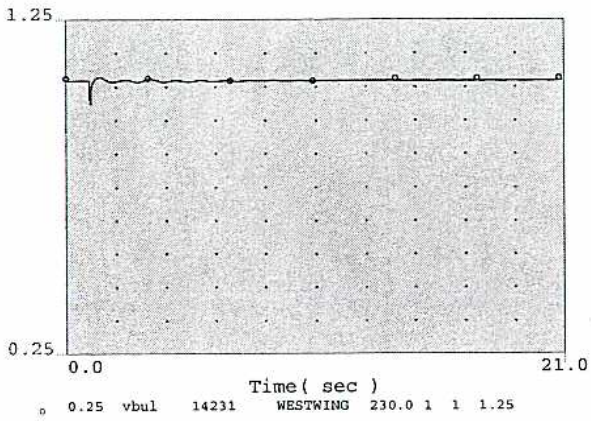


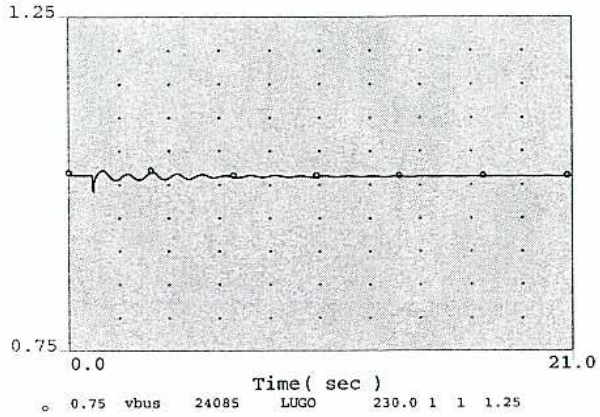


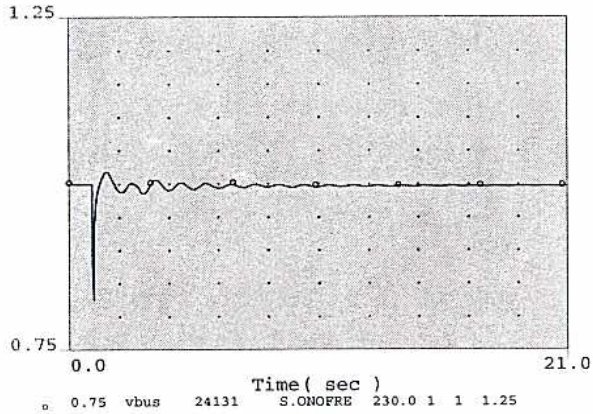


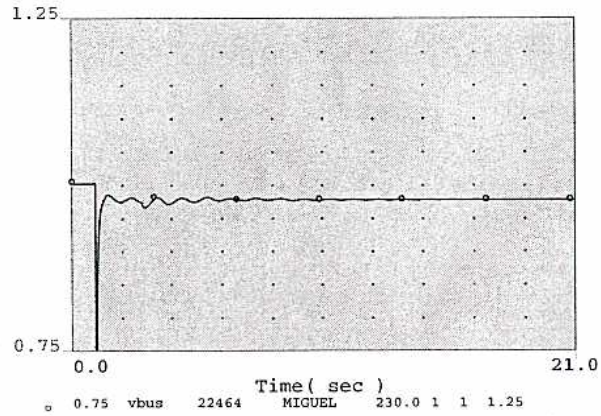


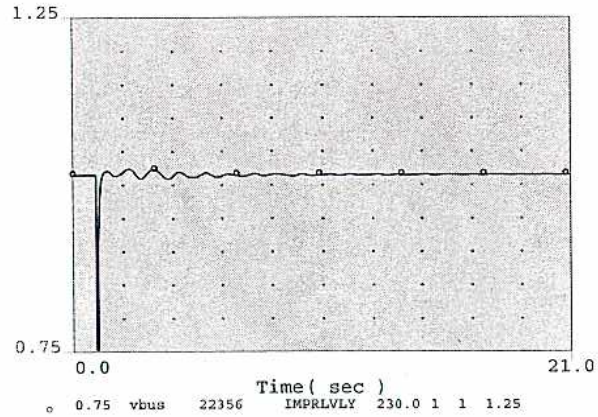
Fault bus at Inmperial Valley
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA

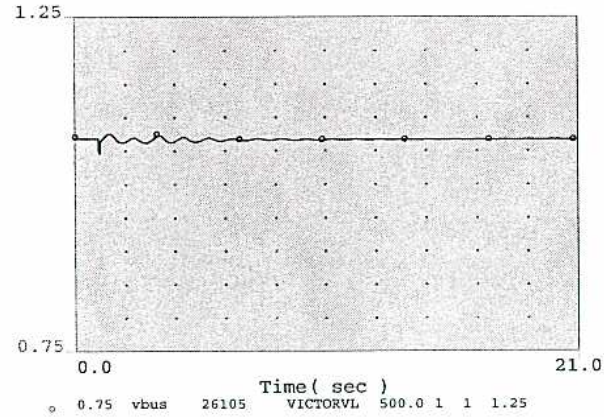




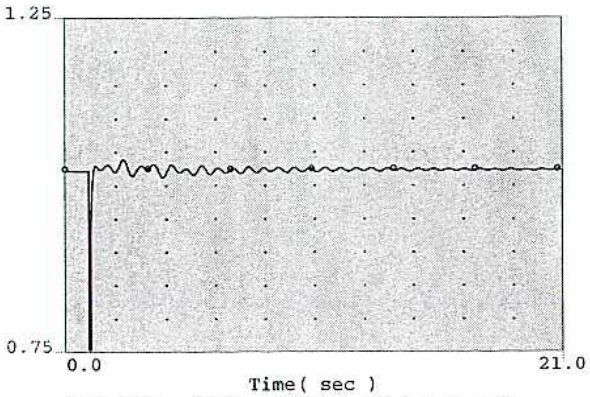








Fault bus at Inmperial Valley
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA



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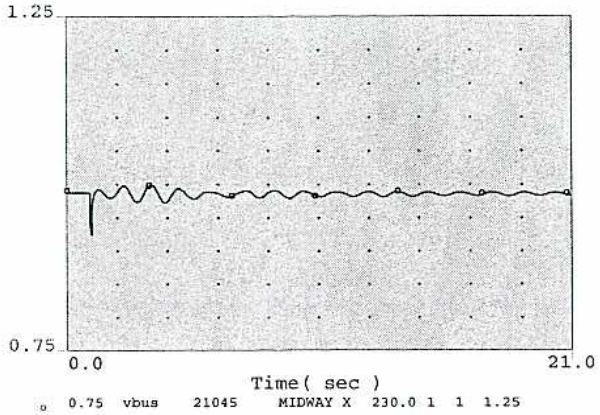

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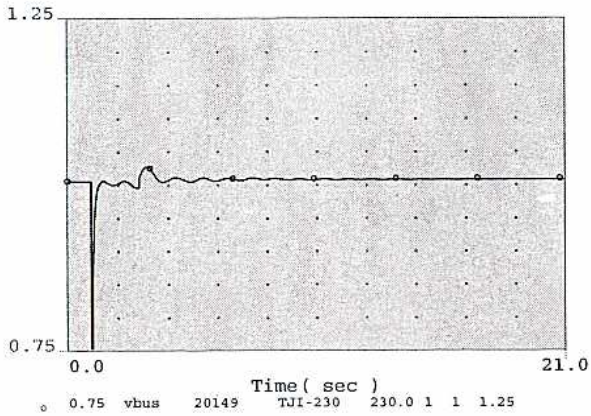

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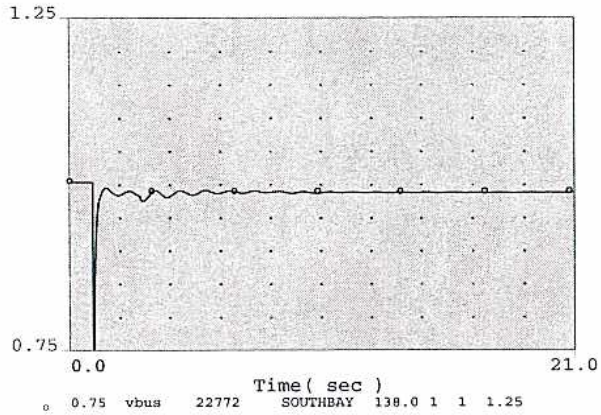

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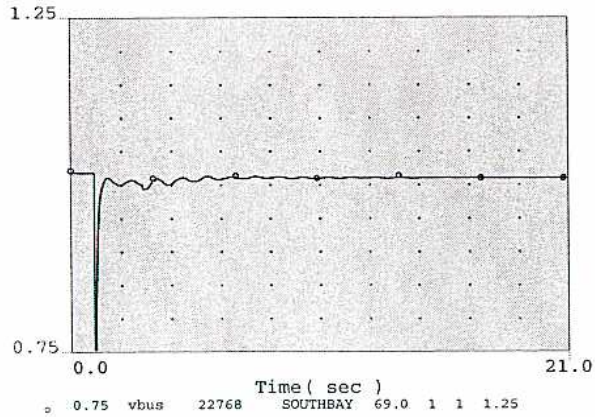

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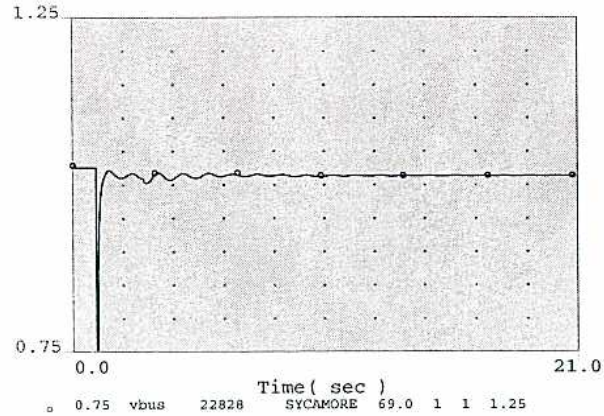

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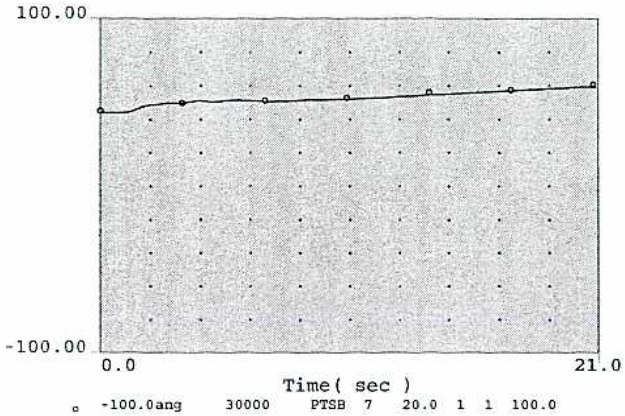
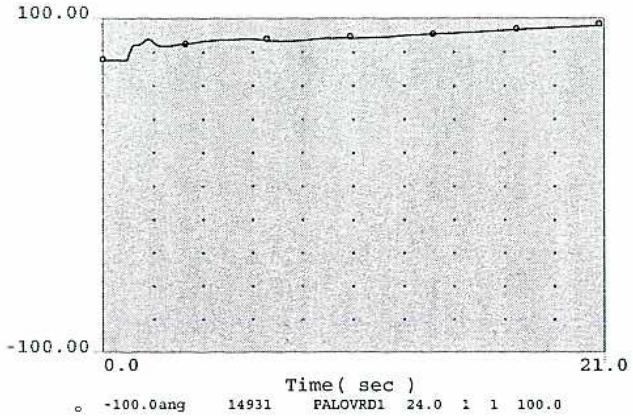
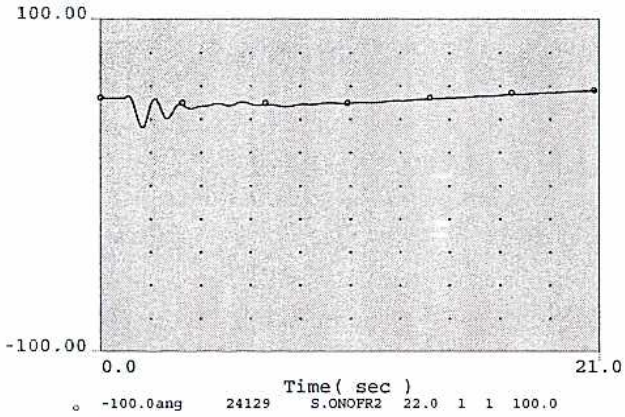
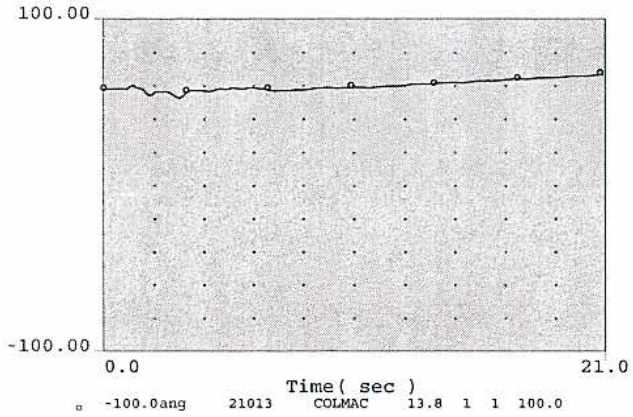
Fault bus at Inmperial Valley

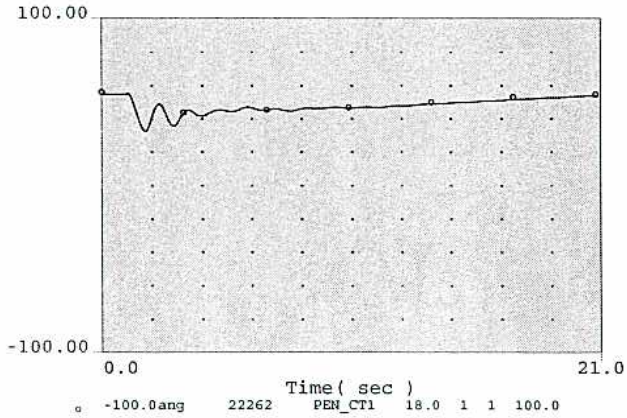
IV-ML 500kV SLO w/XTrip SPS TJI-OTAYMESA

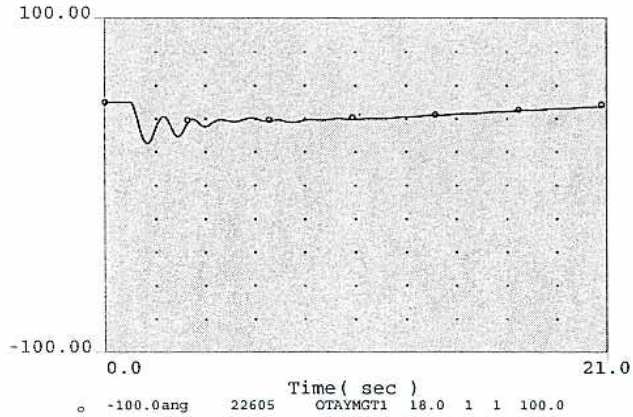






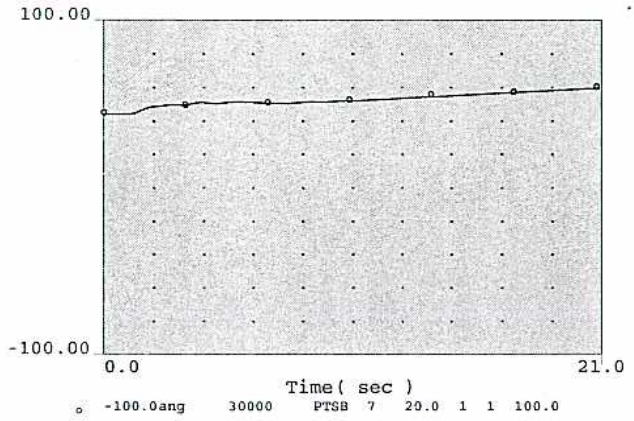


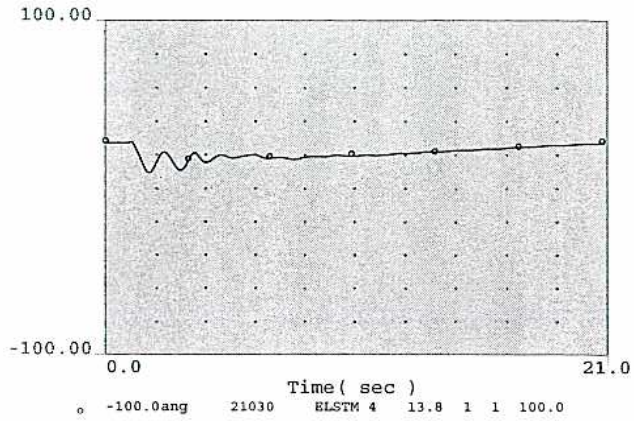


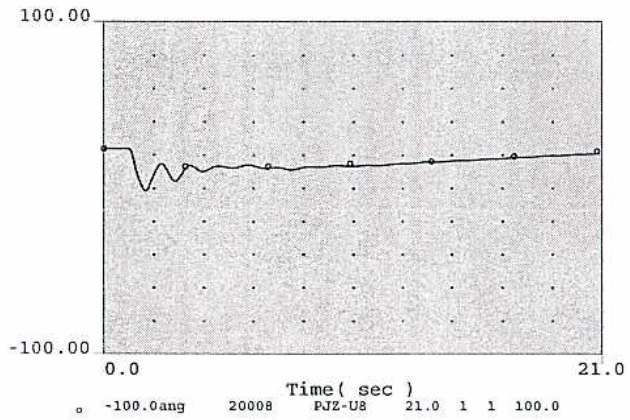


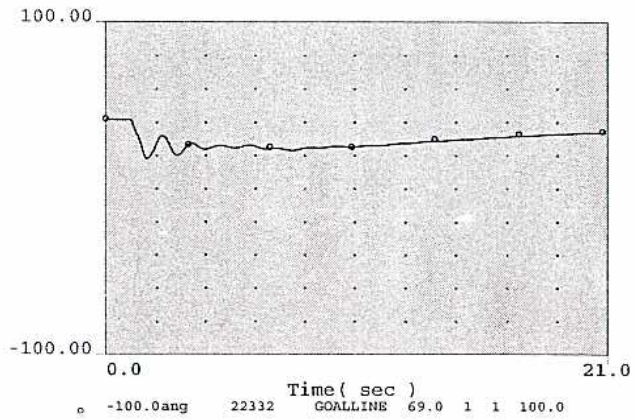
Fault bus at North Gila

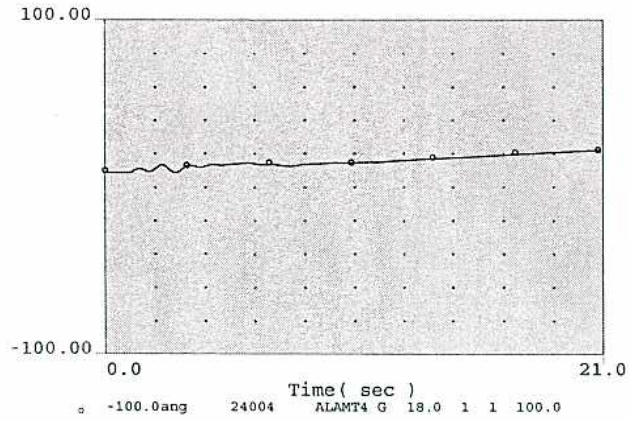
Trip Imperial Valley - North Gila 500 kV line

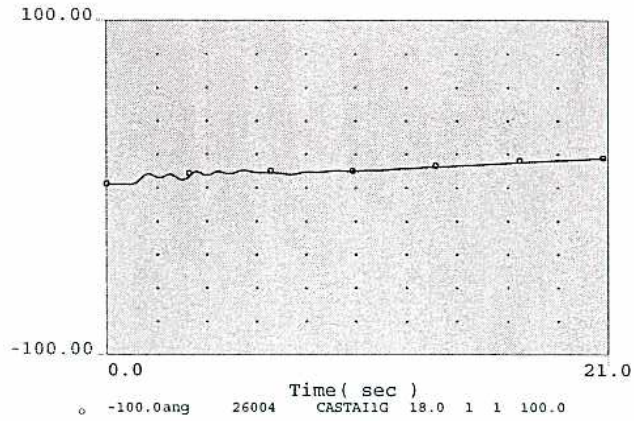






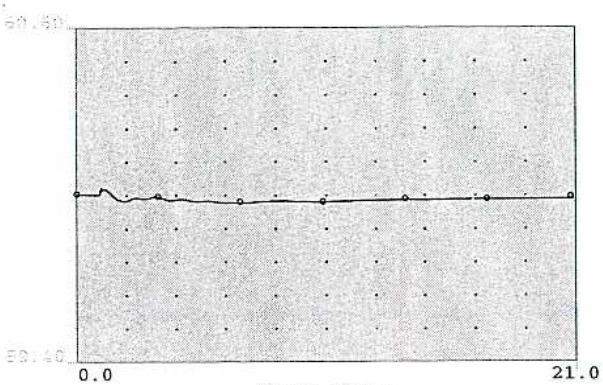




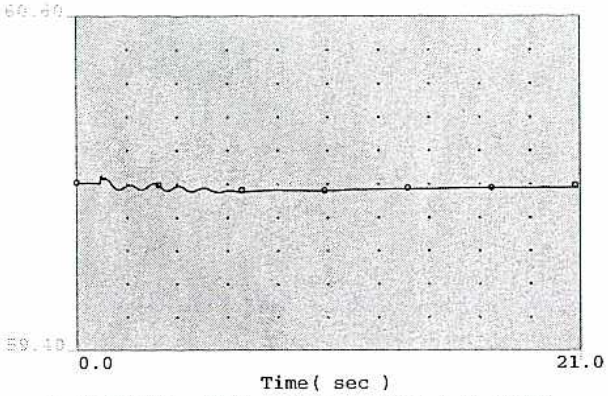


Fault bus at North Gila

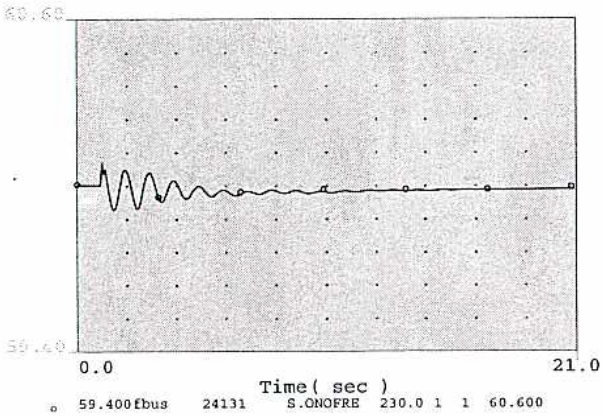
Trip Imperial Valley - North Gila 500 kV line



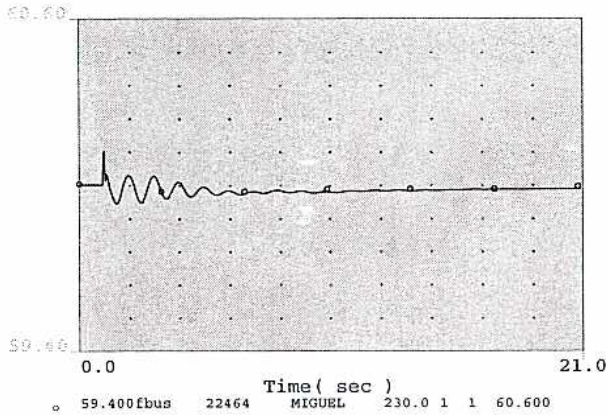
59.400fbul 14231 WESTWING 230.0 1 1 60.600



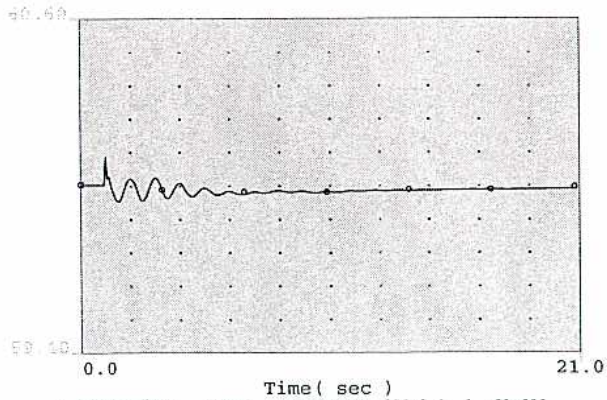
59.400fbus 24085 LUGO 230.0 1 1 60.600



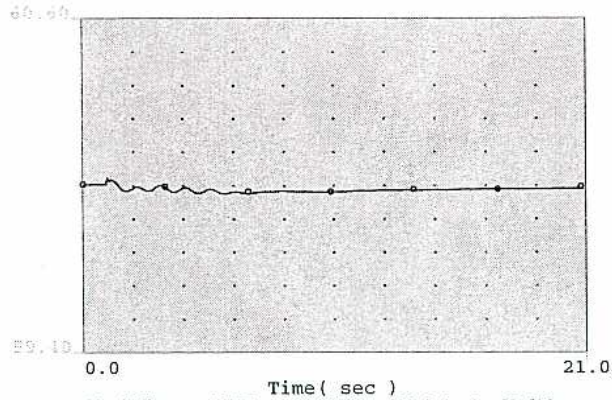
59.400fbus 24131 S.ONOFRE 230.0 1 1 60.600



59.400fbus 22464 MIGUEL 230.0 1 1 60.600

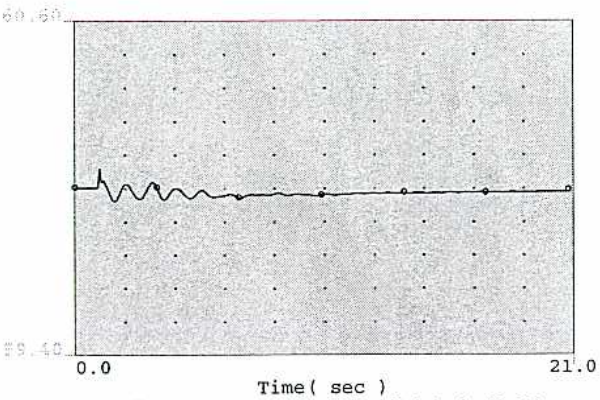


59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600

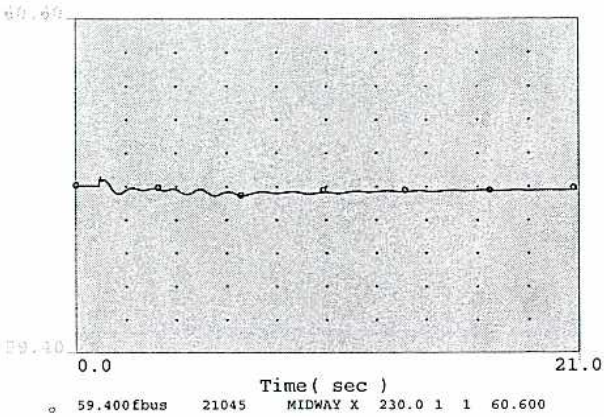


59.400fbus 26105 VICTORVL 500.0 1 1 60.600

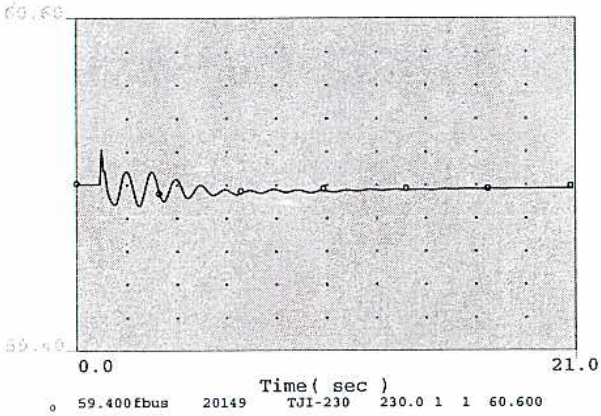
Fault bus at PEN
Trip PEN 2/ST UNITS



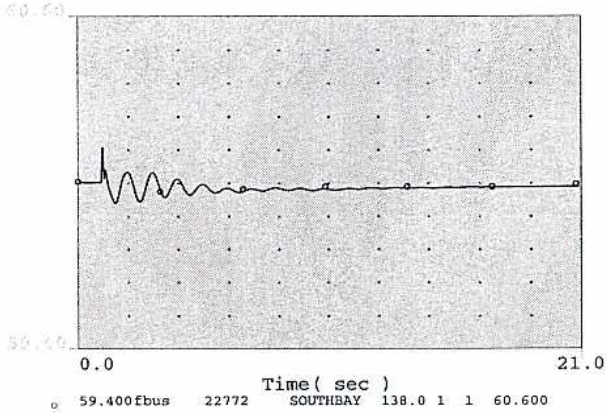
59.400fbus 21026 ELCENTSW 161.0 1 1 60.600



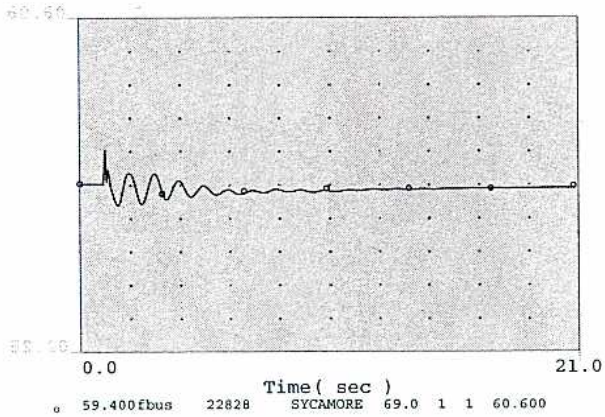
59.400fbus 21045 MIDWAY X 230.0 1 1 60.600



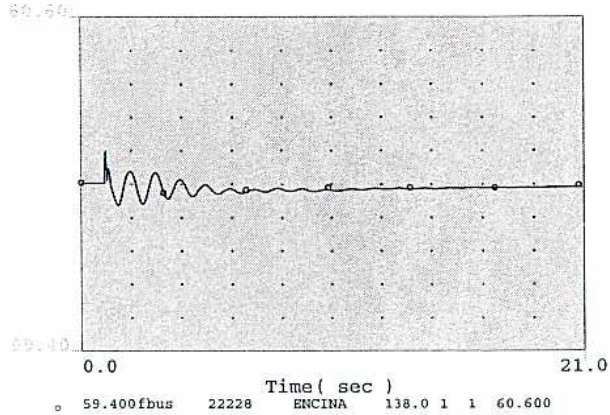
59.400fbus 20149 TJI-230 230.0 1 1 60.600



59.400fbus 22772 SOUTHBAY 138.0 1 1 60.600

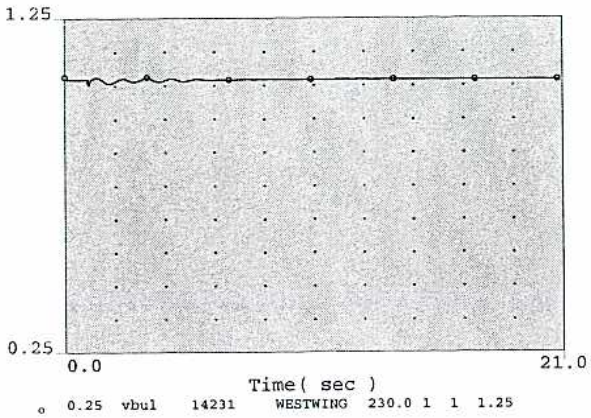


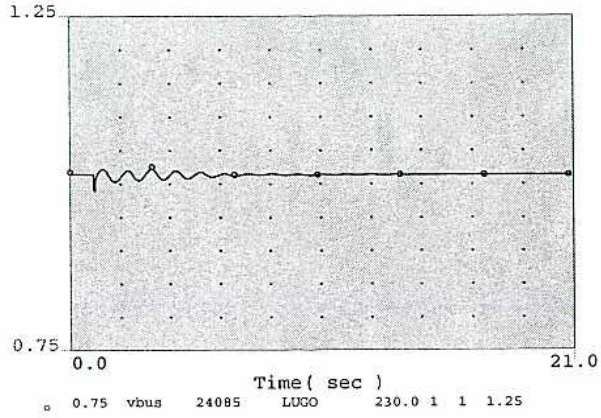
59.400fbus 22828 SYCAMORE 69.0 1 1 60.600

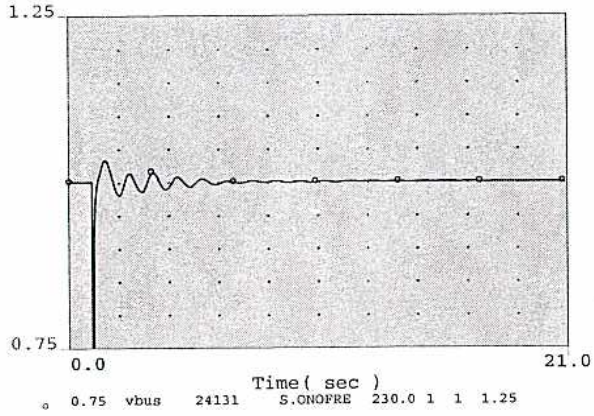


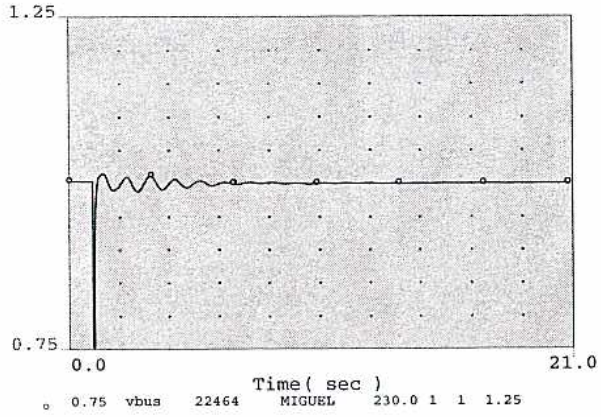
59.400fbus 22228 ENCINA 138.0 1 1 60.600

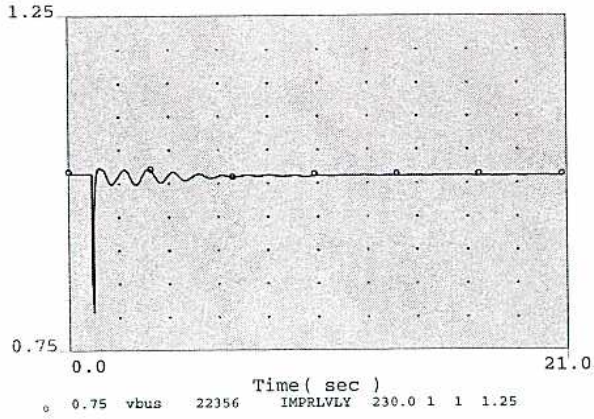
Fault bus at PEN
Trip PEN 2/ST UNITS

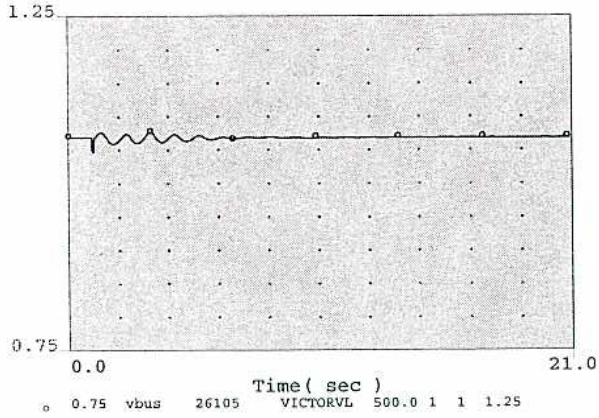




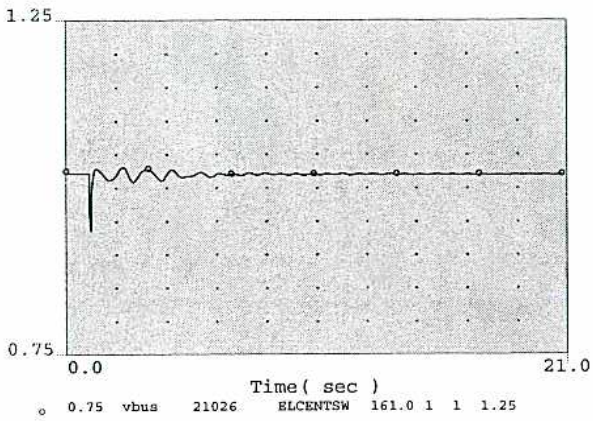


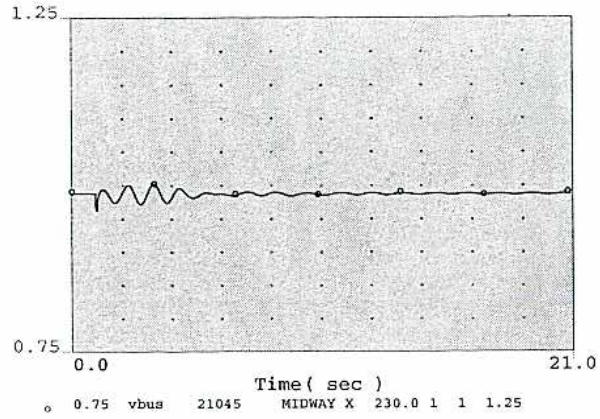


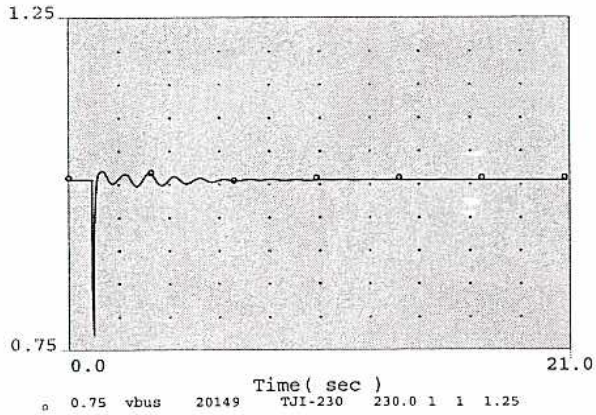


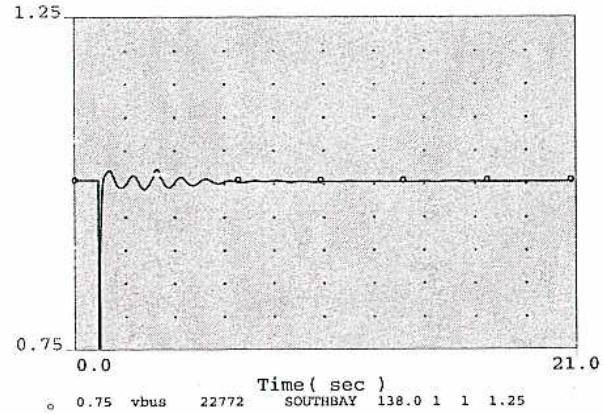


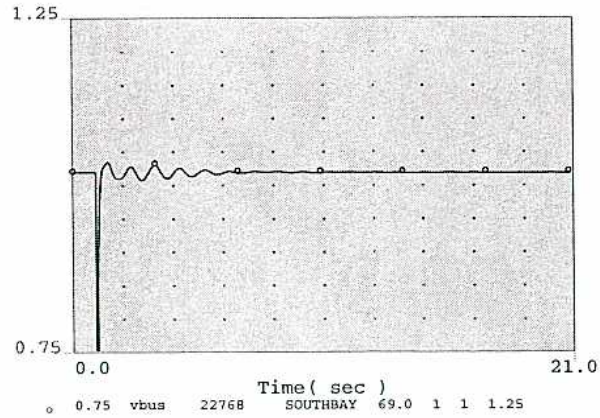
Fault bus at PEN
Trip PEN 2/ST UNITS

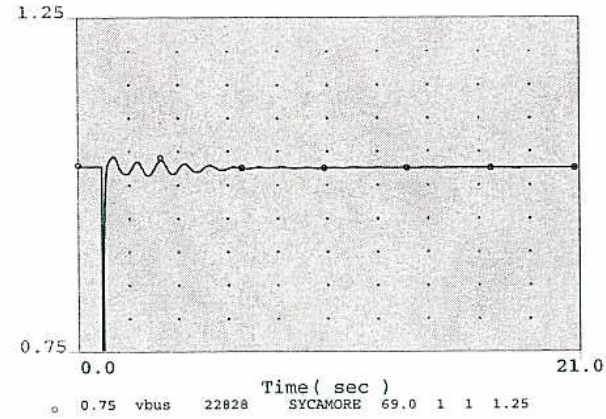




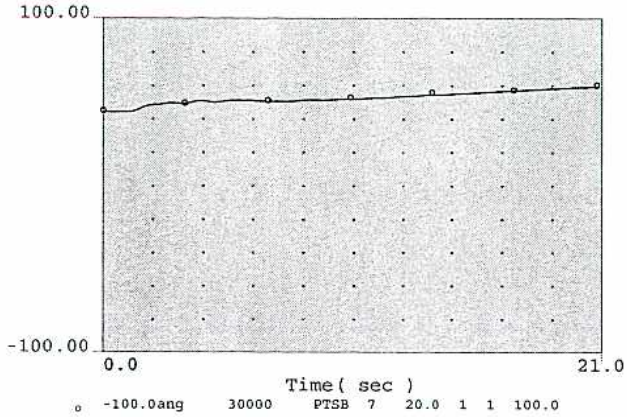


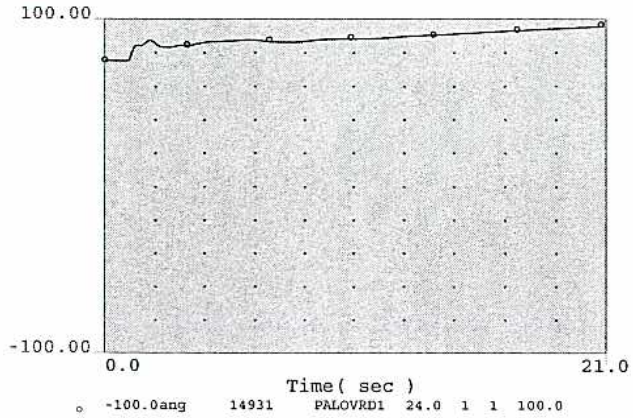


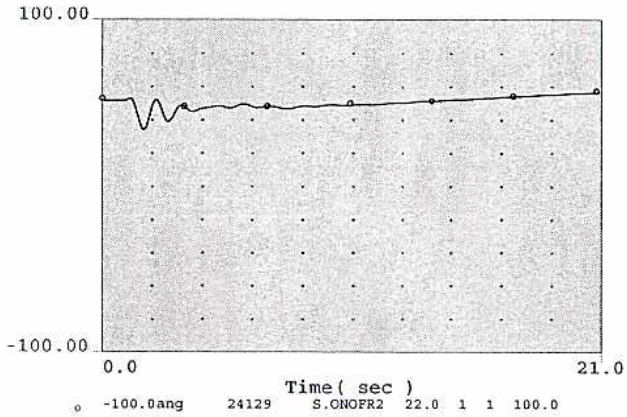


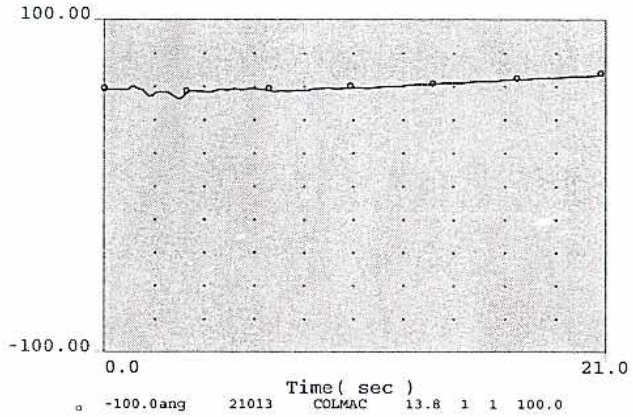


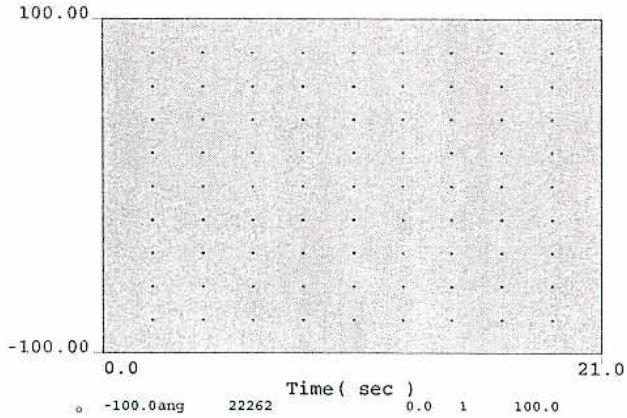
Fault bus at PEN
Trip PEN 2/ST UNITS

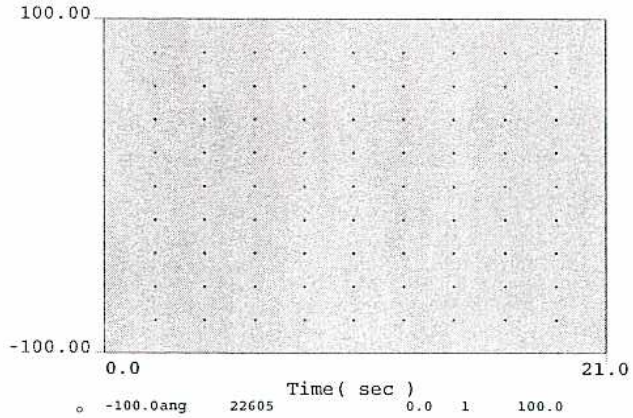






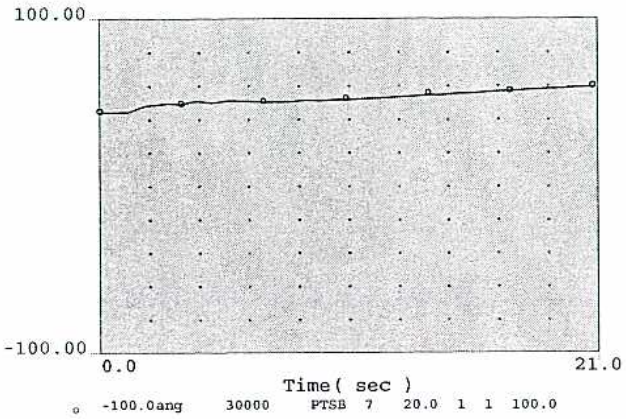


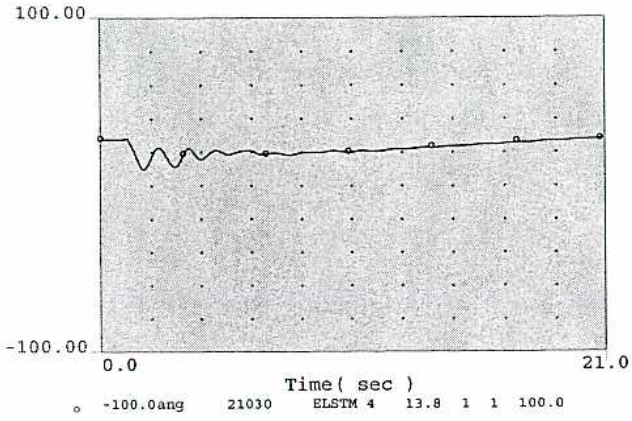


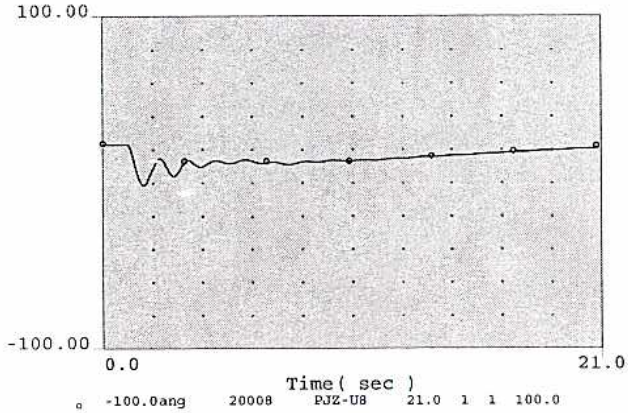


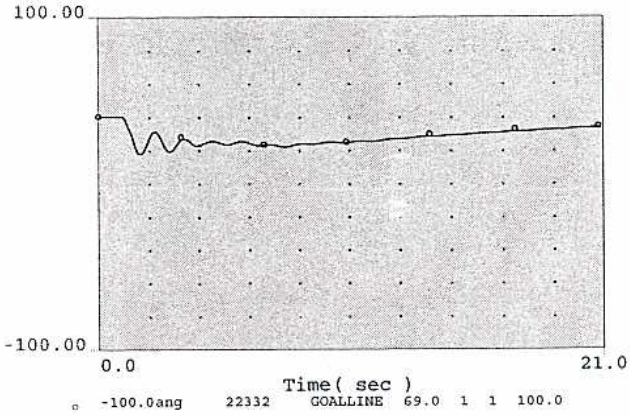
Fault bus at North Gila

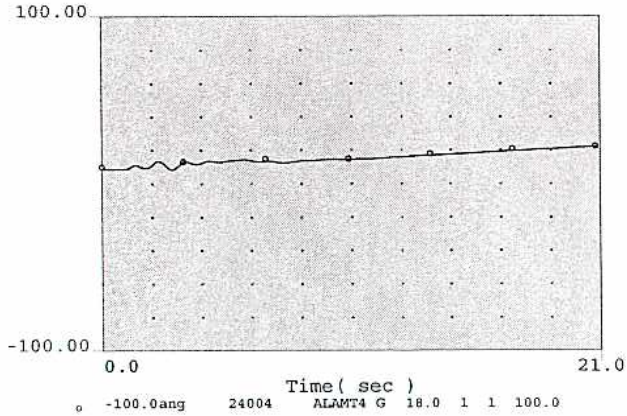
Trip Imperial Valley - North Gila line

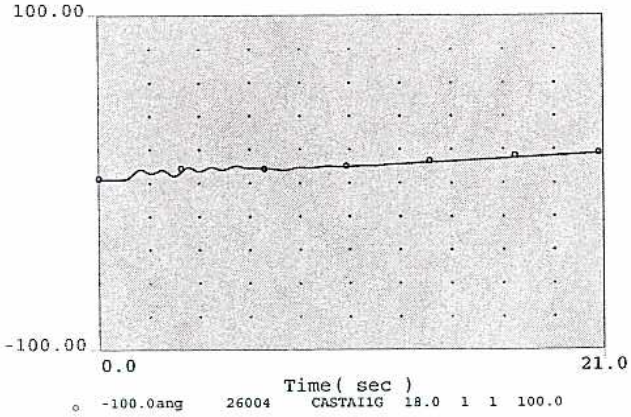




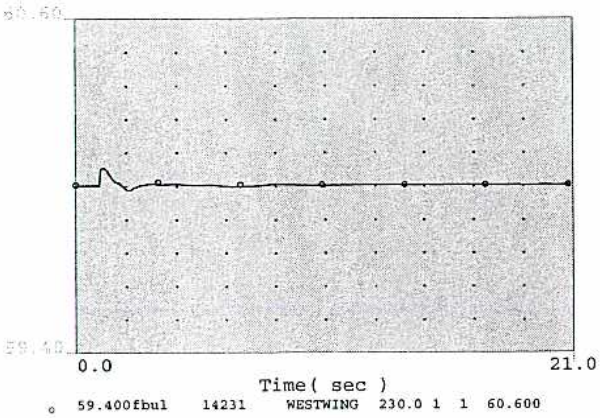


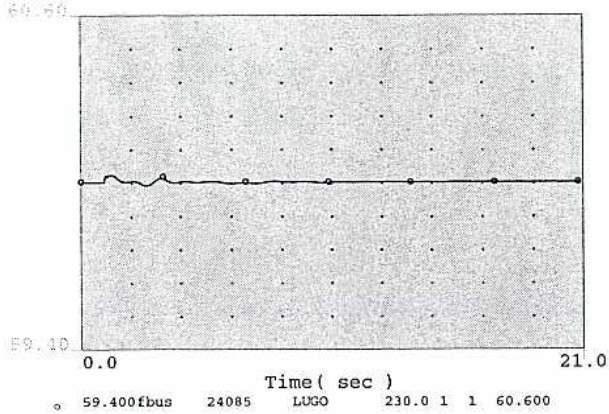


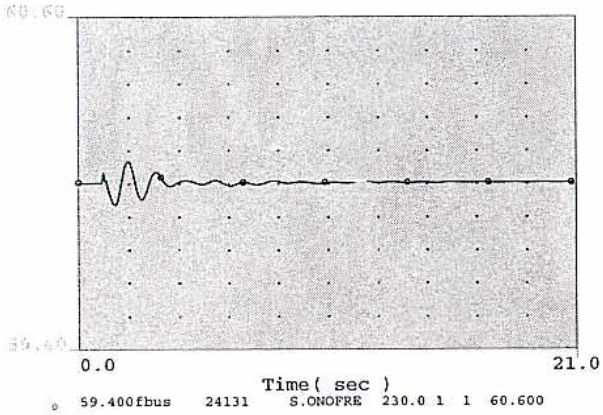


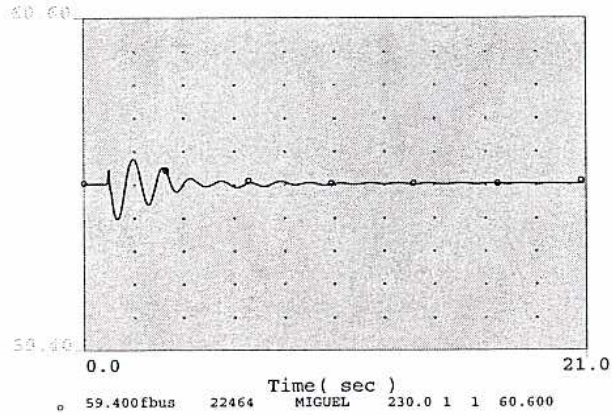


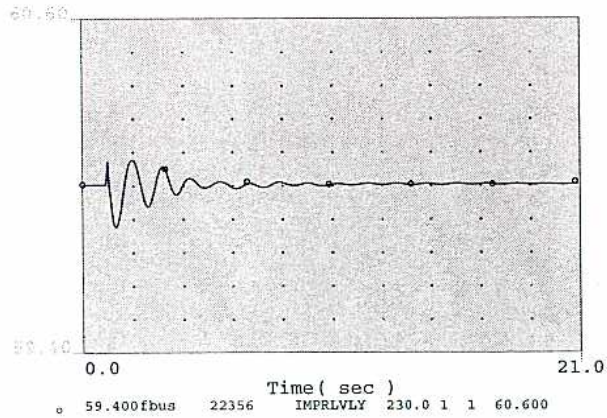
Fault bus at North Gila
Trip Imperial Valley - North Gila line

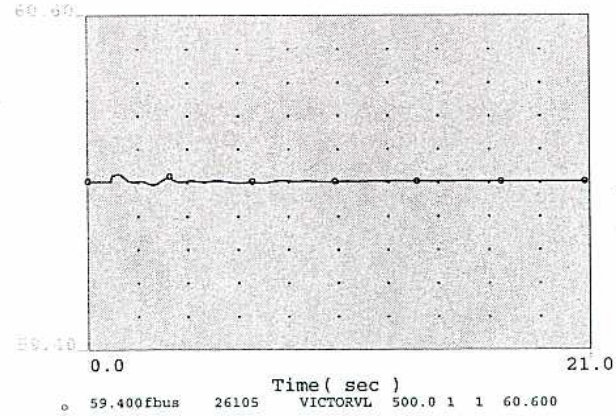






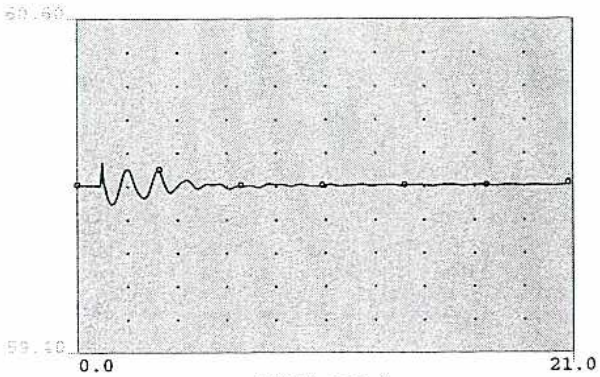




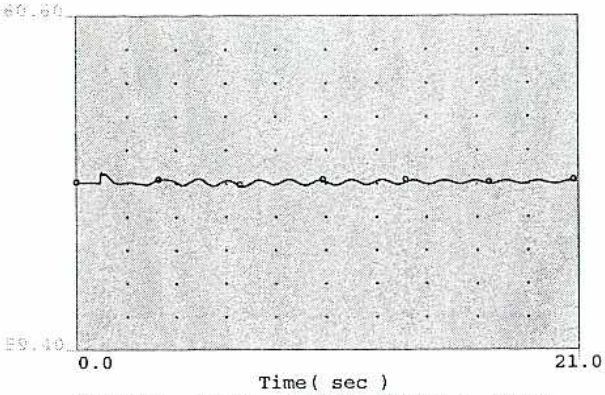


Fault bus at North Gila

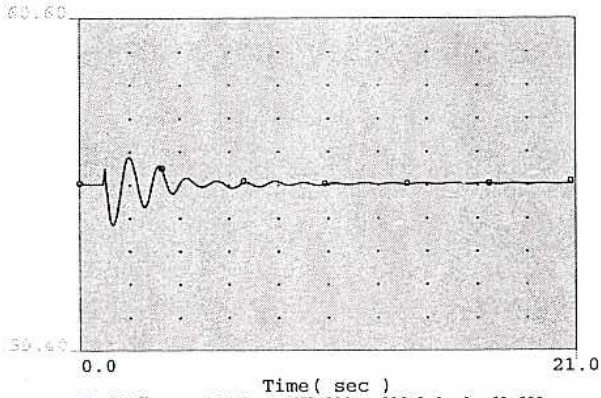
Trip Imperial Valley - North Gila 500 kV line



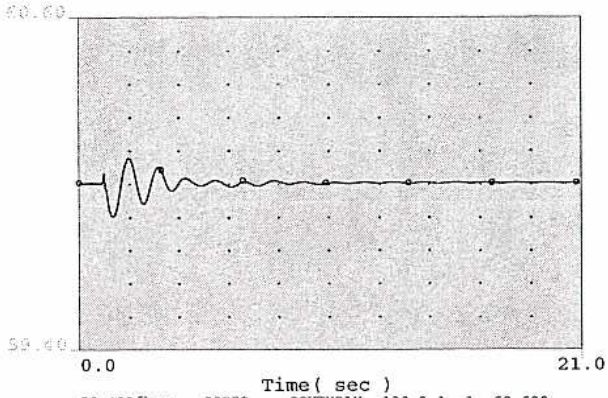
59.400fbus 21026 ELCENTSW 161.0 1 1 60.600



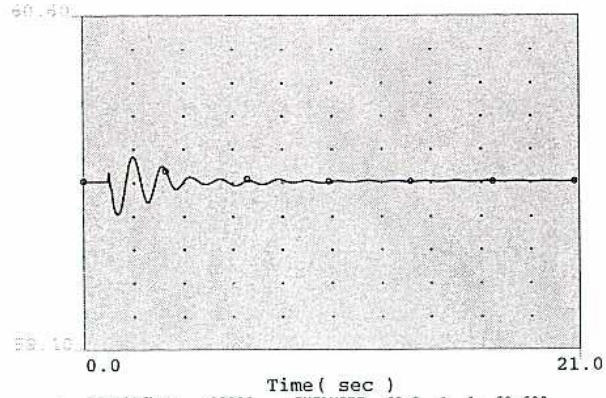
59.400fbus 21045 MIDWAY X 230.0 1 1 60.600



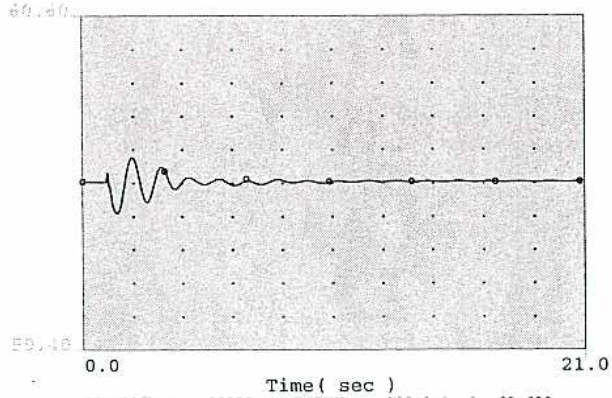
59.400fbus 20149 TJI-230 230.0 1 1 60.600



59.400fbus 22772 SOUTHBAY 138.0 1 1 60.600



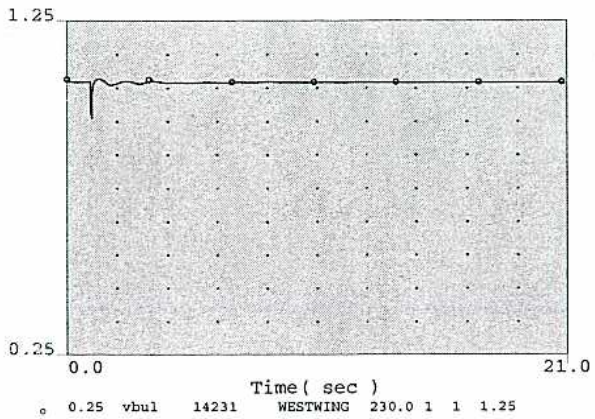
59.400fbus 22828 SYCAMORE 69.0 1 1 60.600

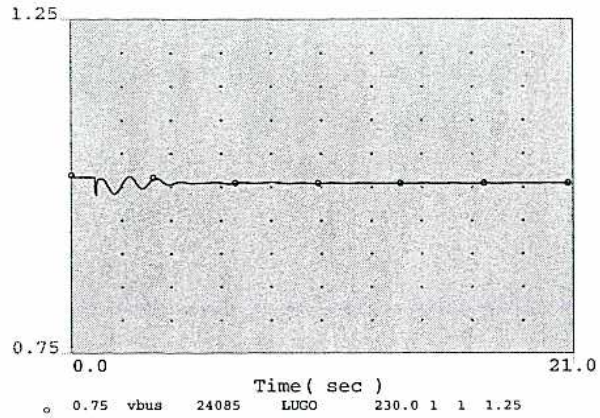


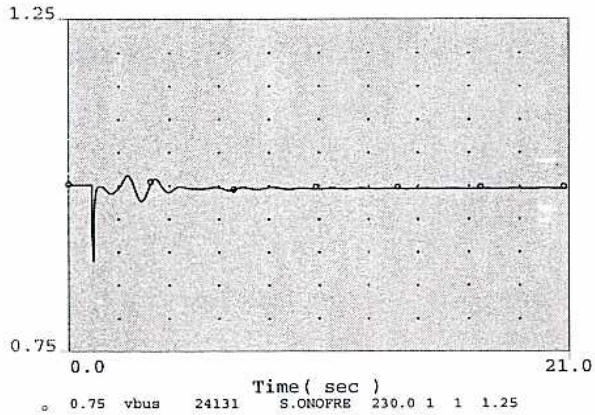
59.400fbus 22228 ENCINA 138.0 1 1 60.600

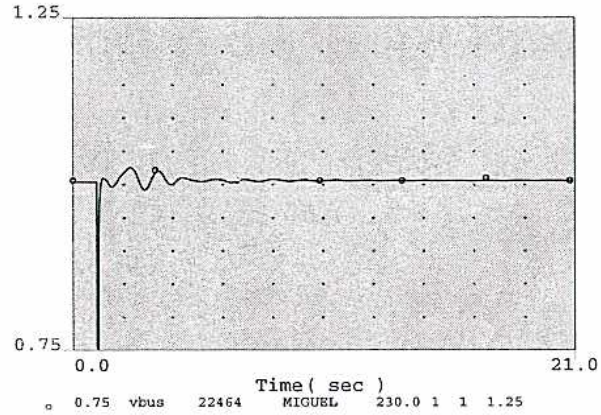
Fault bus at North Gila

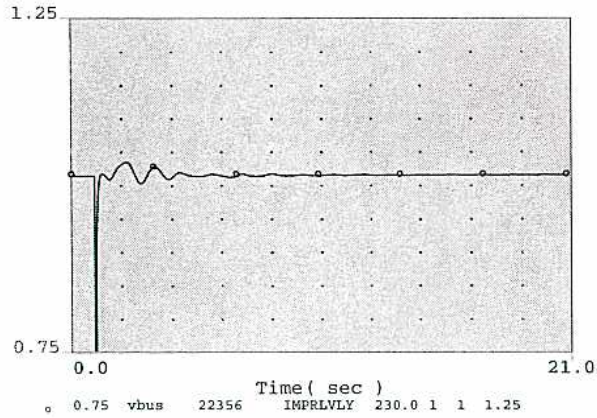
Trip Imperial Valley - North Gila 500 kV line

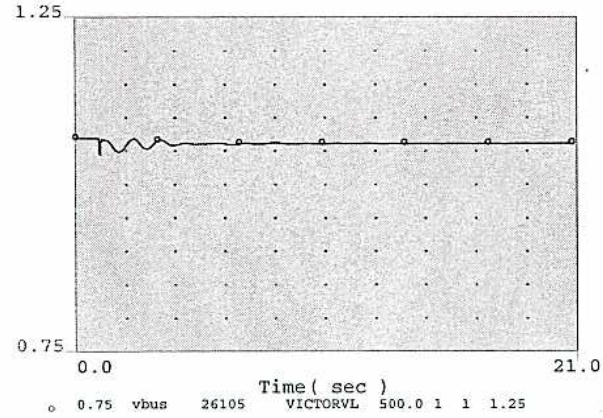






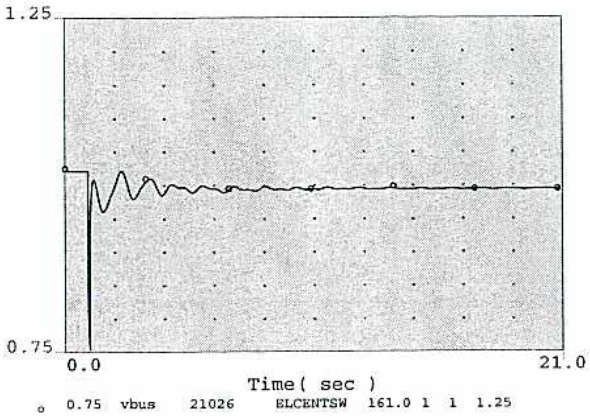


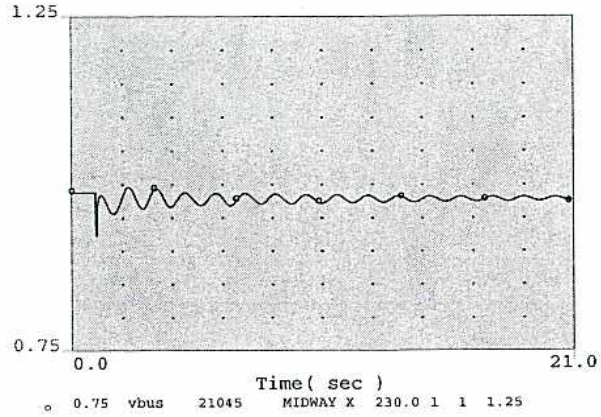


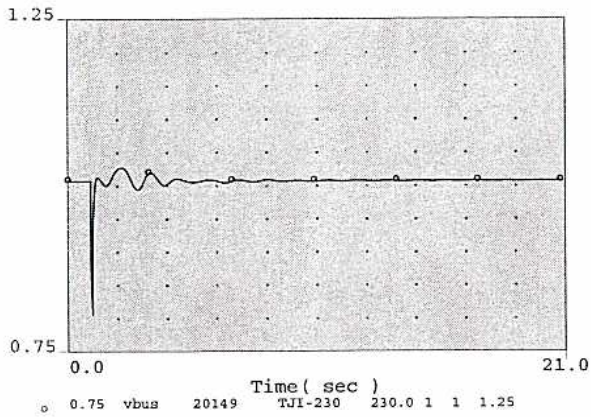


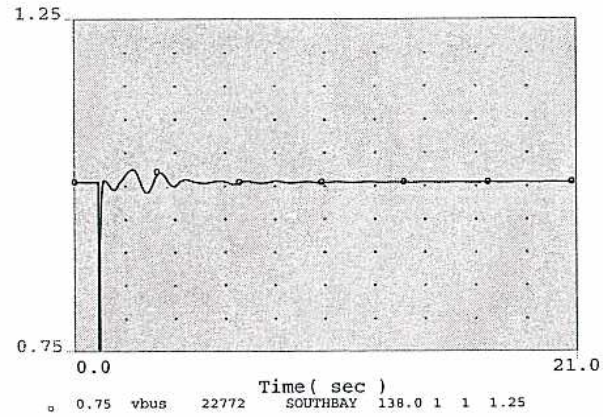
Fault bus at North Gila

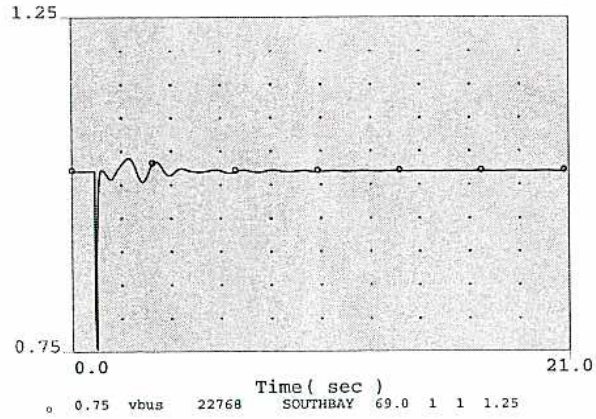
Trip Imperial Valley - North Gila 500 kV line

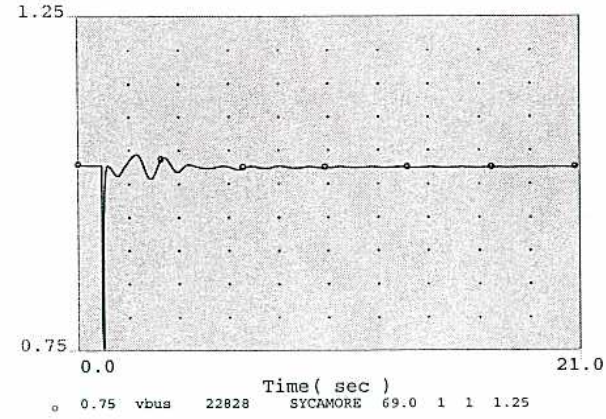






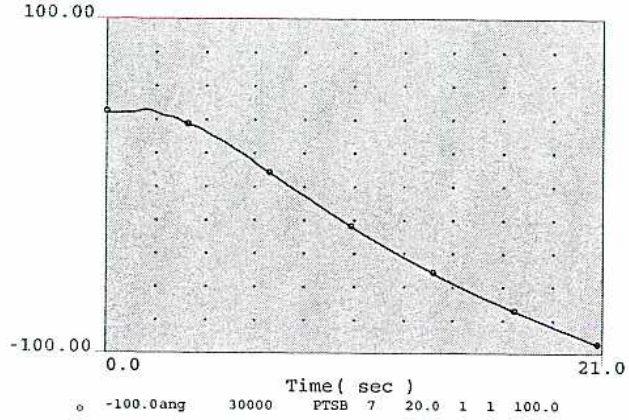


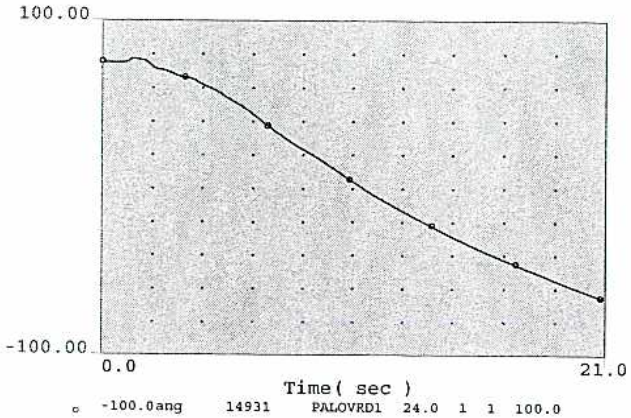


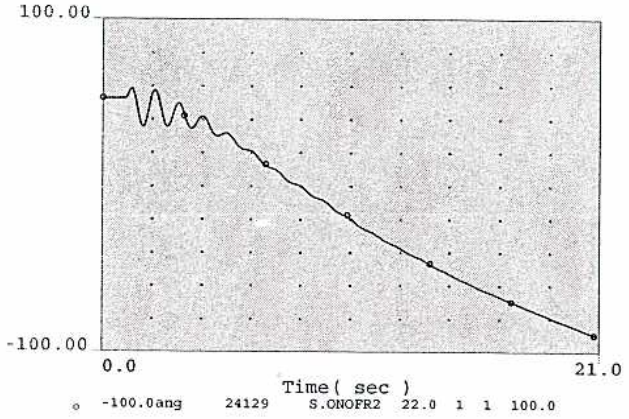


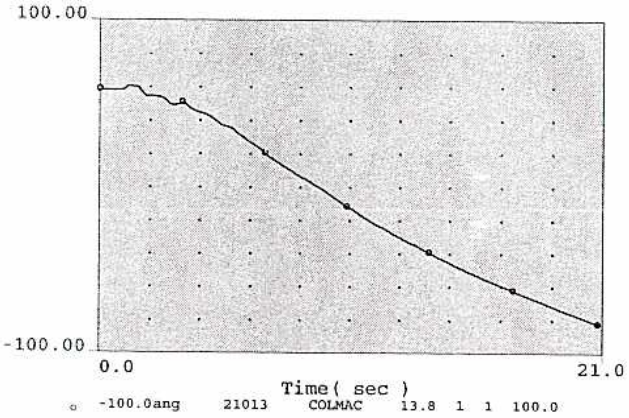
Fault bus at North Gila

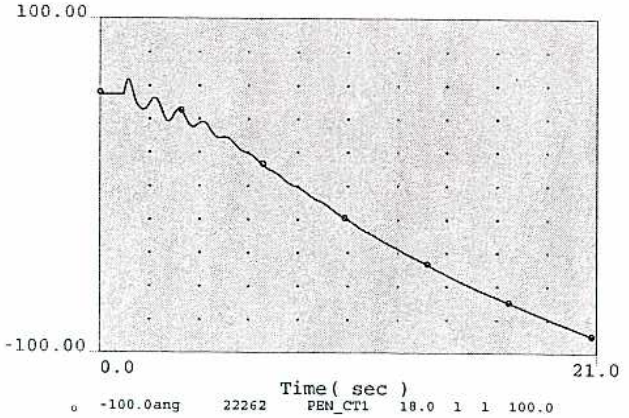
Trip Imperial Valley - North Gila 500 kV line

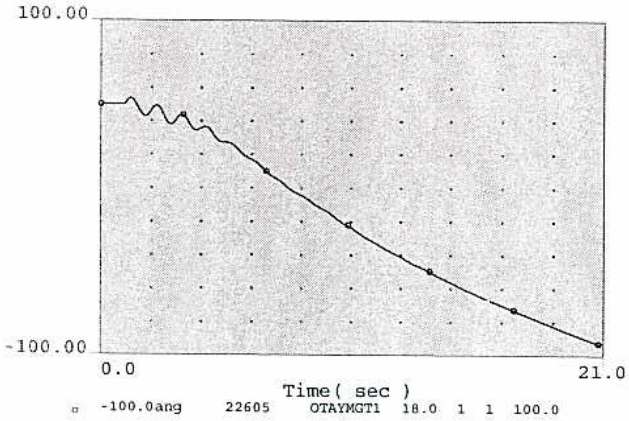










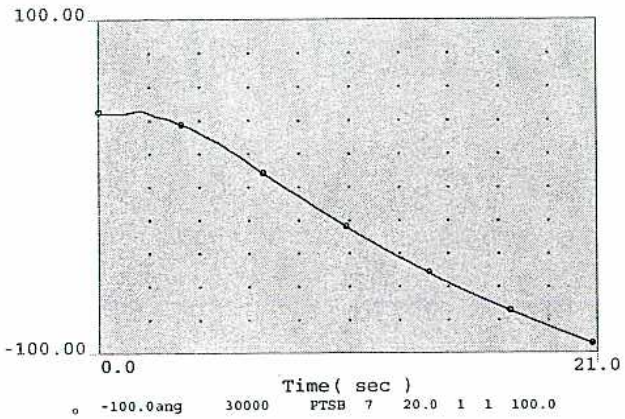


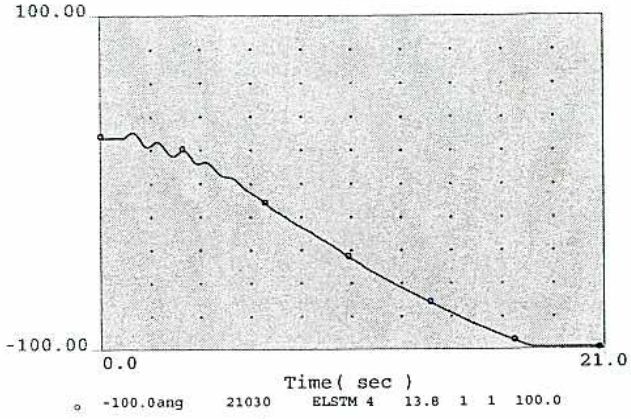
Fault bus at PEN
Trip PEN 2/ST UNITS

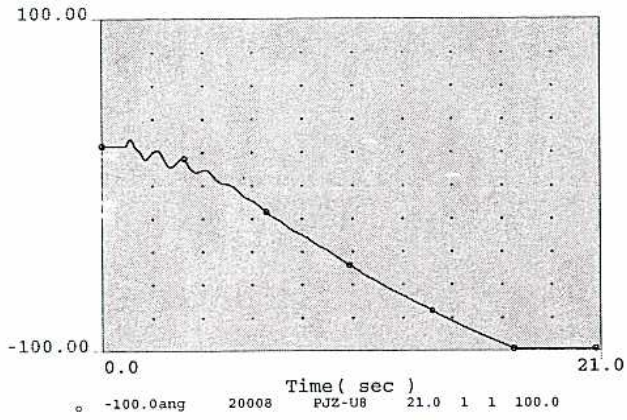
pen_ccduo_pre.chf

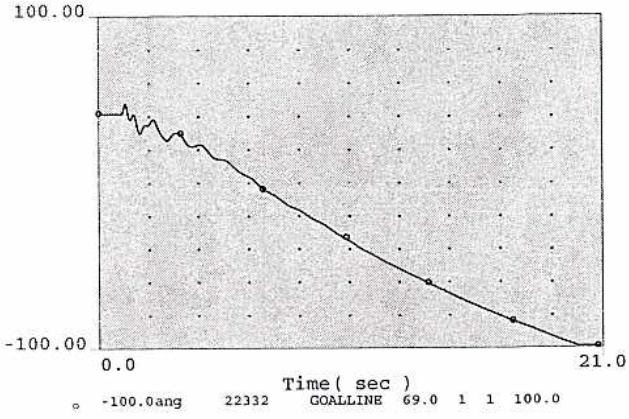
c:\upslf151\mypslf

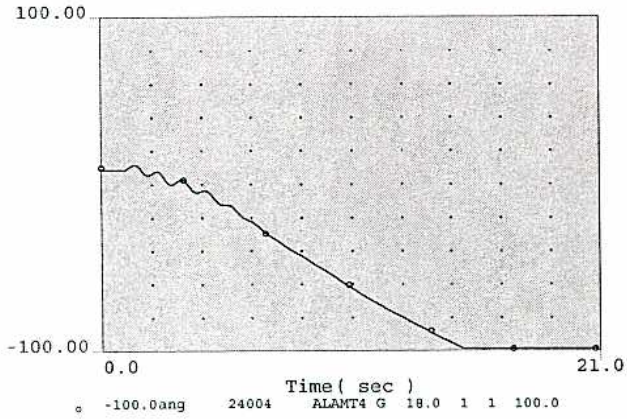
Tue Sep 12 09:55:41 2006

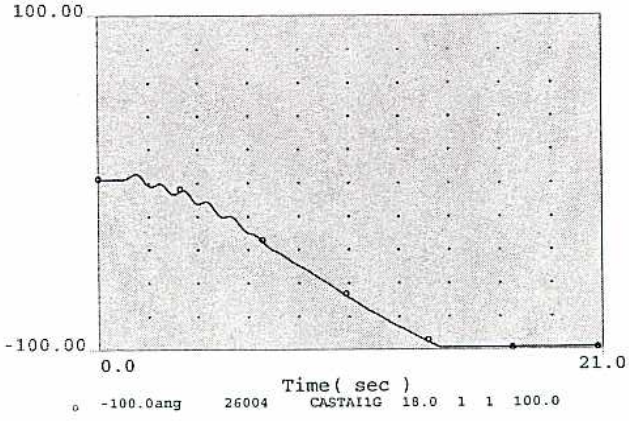




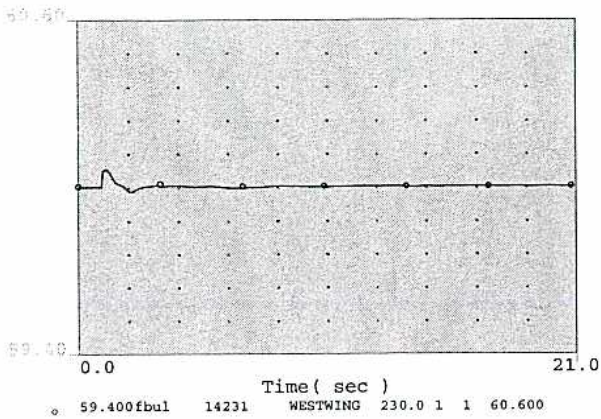




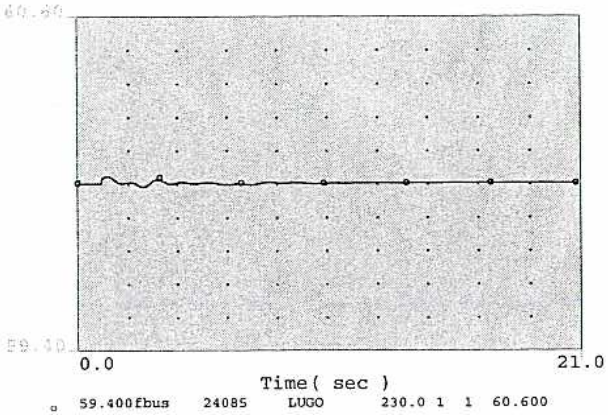




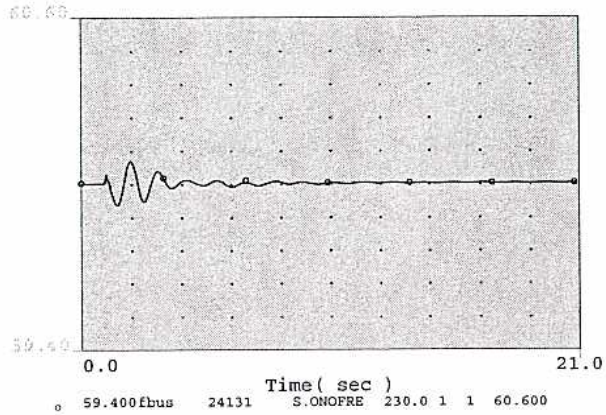
Fault bus at PEN
Trip PEN 2/ST UNITS



59.400fbul 14231 WESTWING 230.0 1 1 60.600



59.400fbus 24085 LUGO 230.0 1 1 60.600



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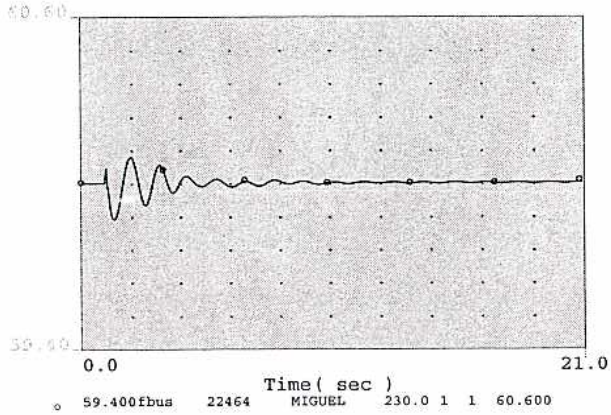
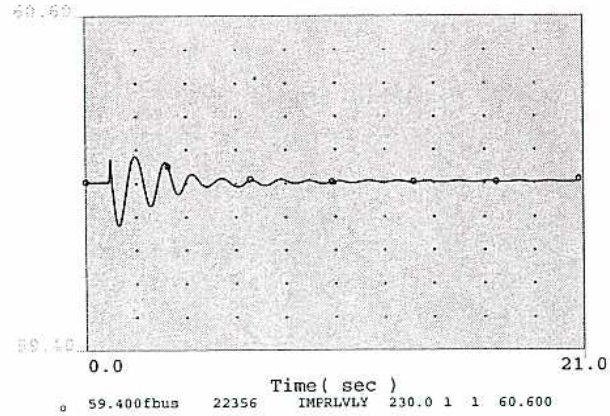
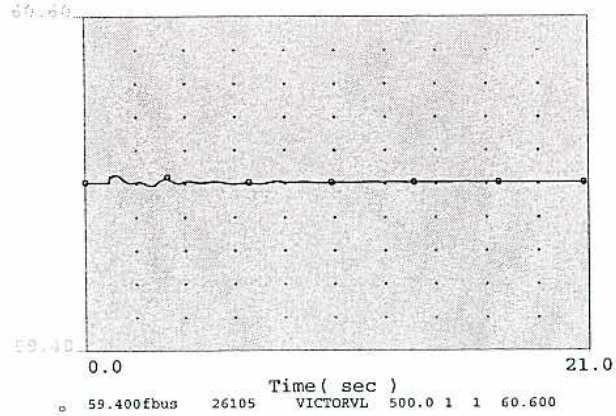


59.400fbus 22464 MIGUEL 230.0 1 1 60.600



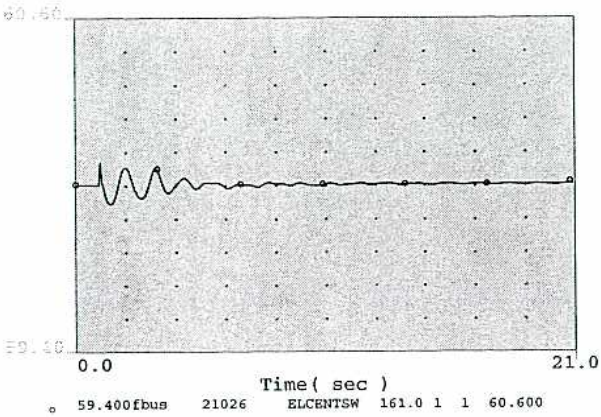
59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600

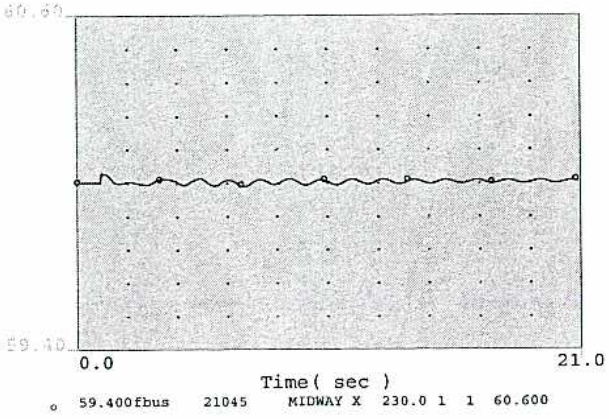


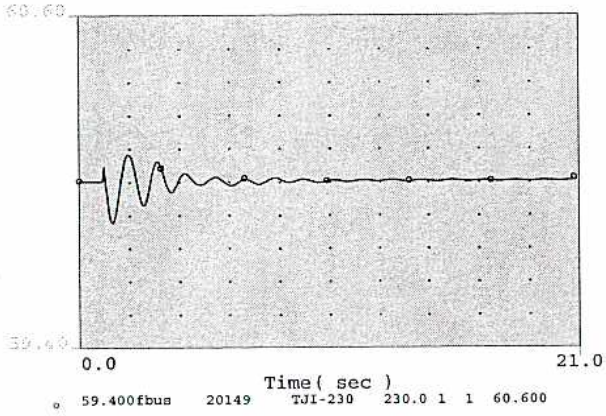
59.400fbus 26105 VICTORVL 500.0 1 1 60.600

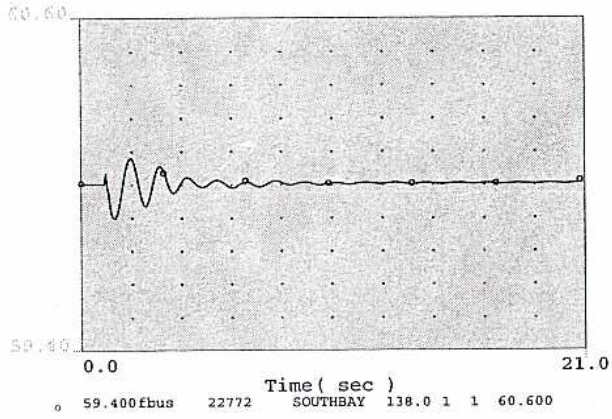
Fault bus at North Gila

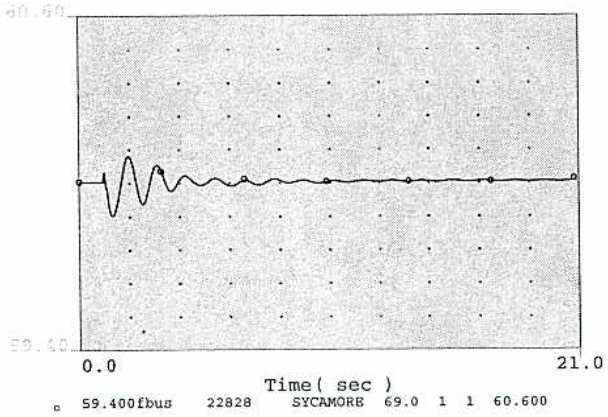
Trip Imperial Valley - North Gila line

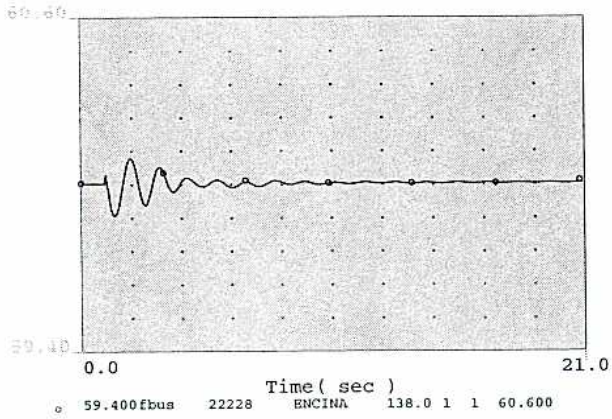




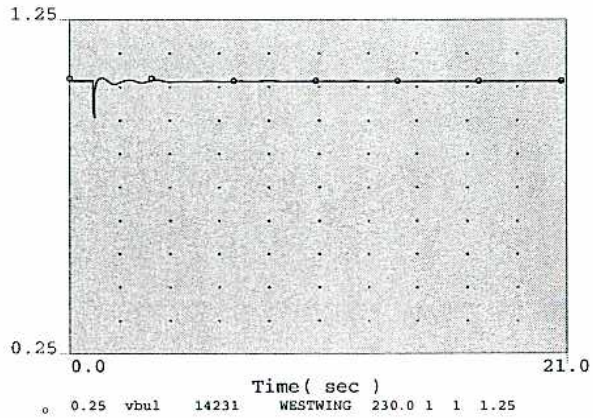


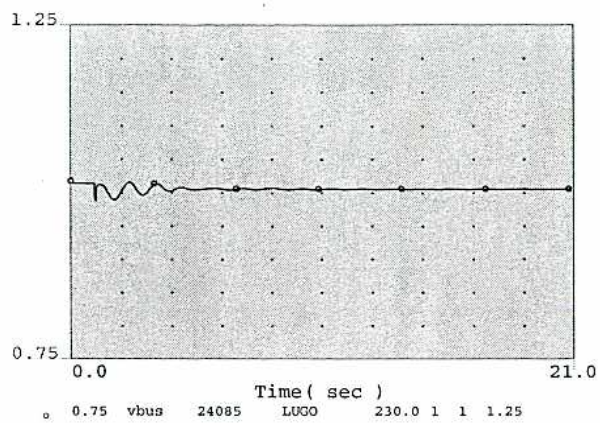


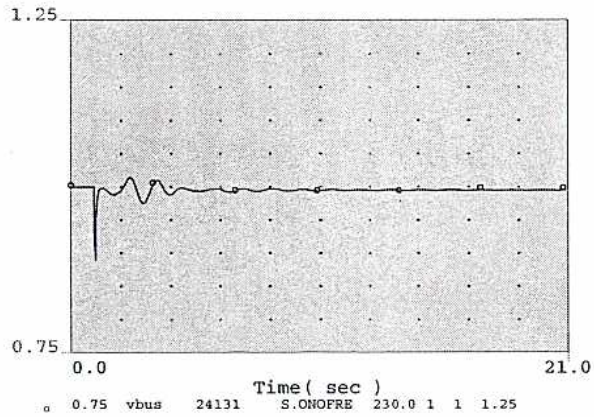


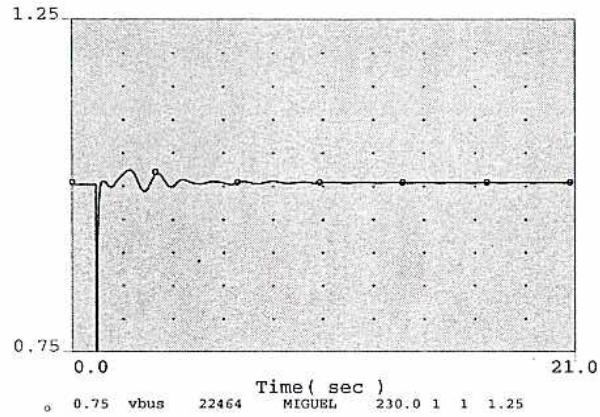


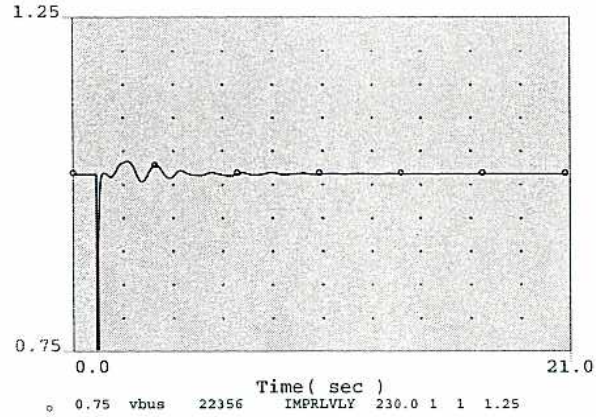
Fault bus at North Gila
Trip Imperial Valley - North Gila line

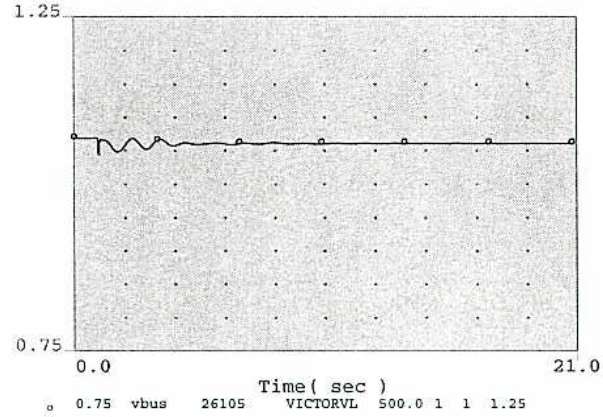






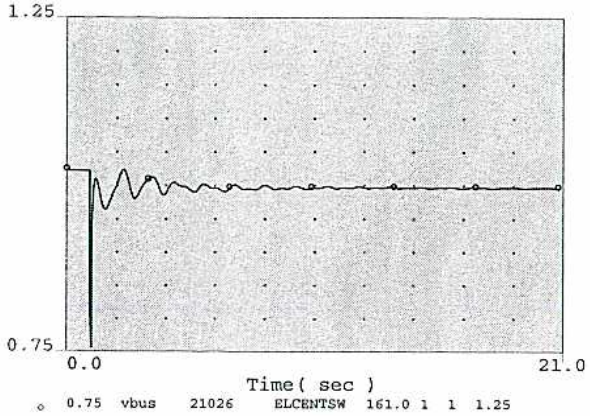


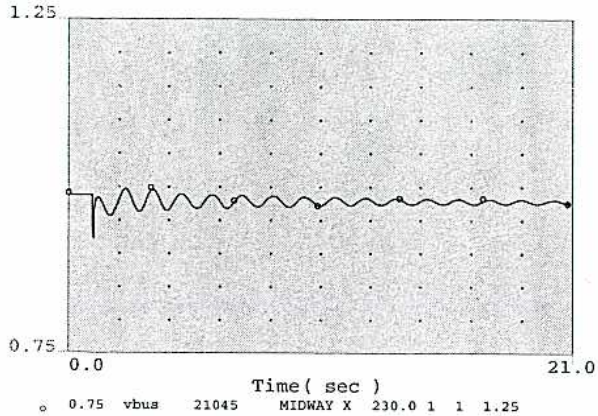


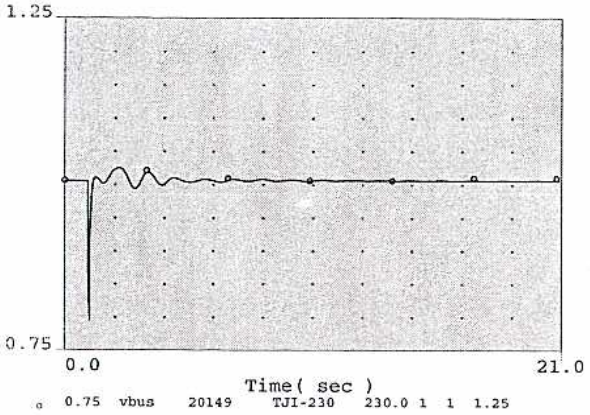


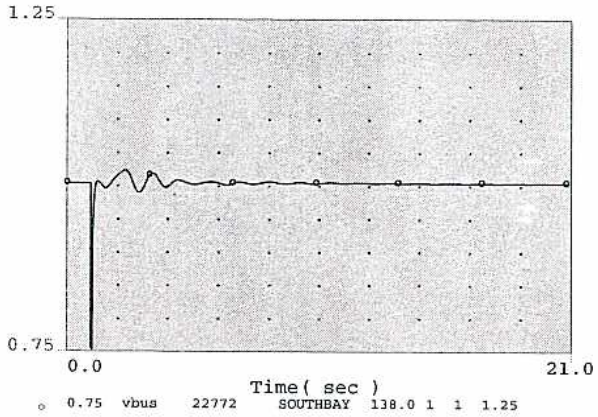
Fault bus at North Gila

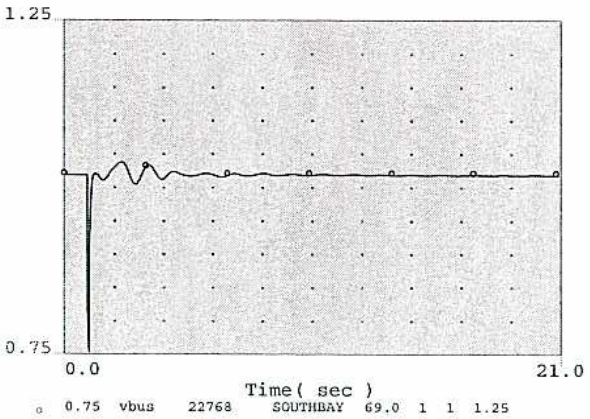
Trip Imperial Valley - North Gila line

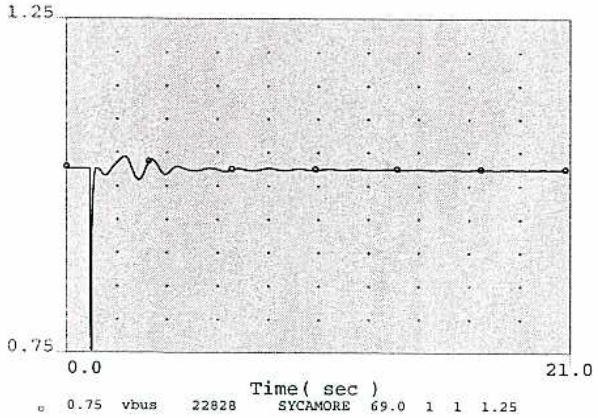






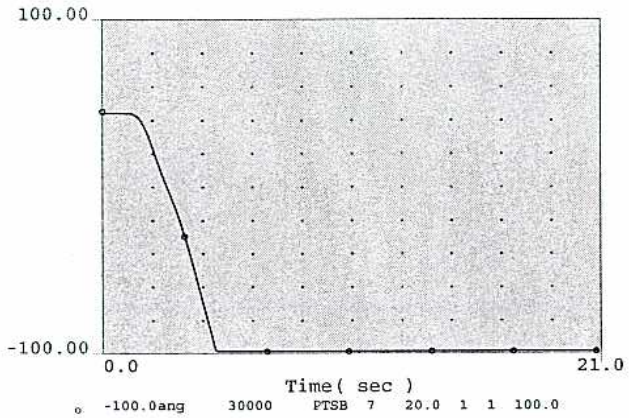


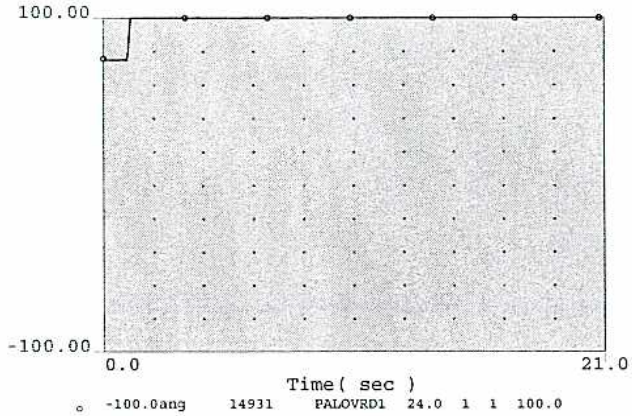


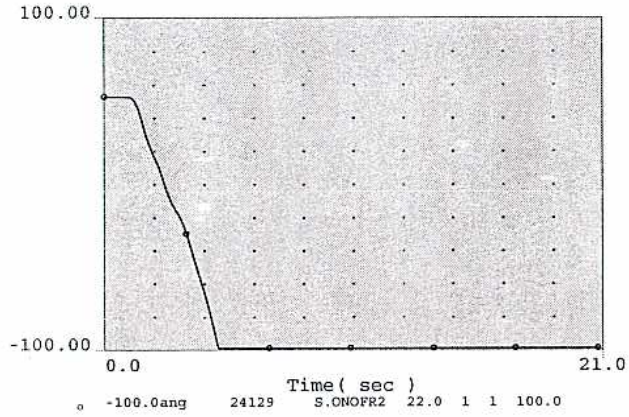


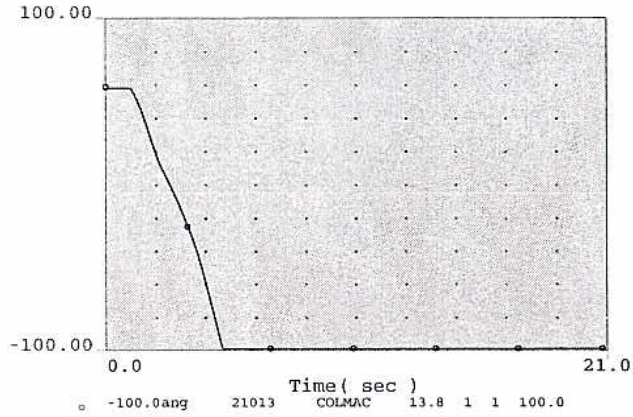
Fault bus at North Gila

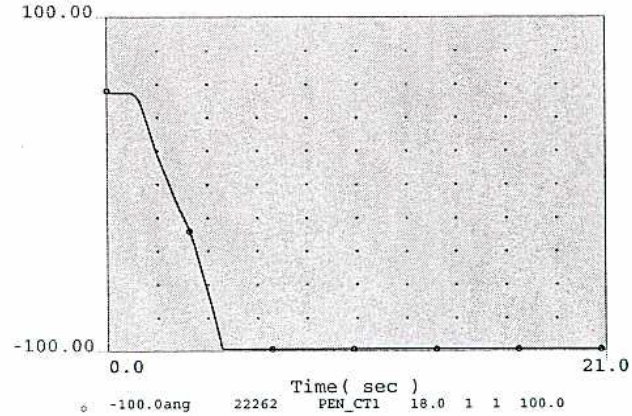
Trip Imperial Valley - North Gila line

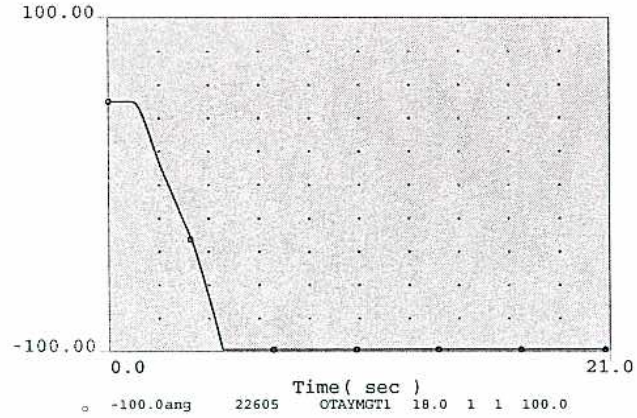










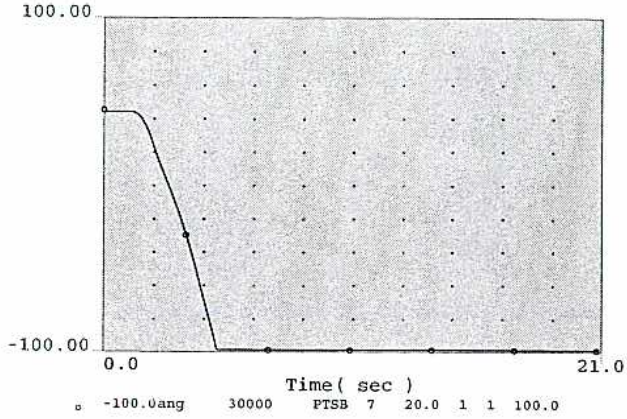


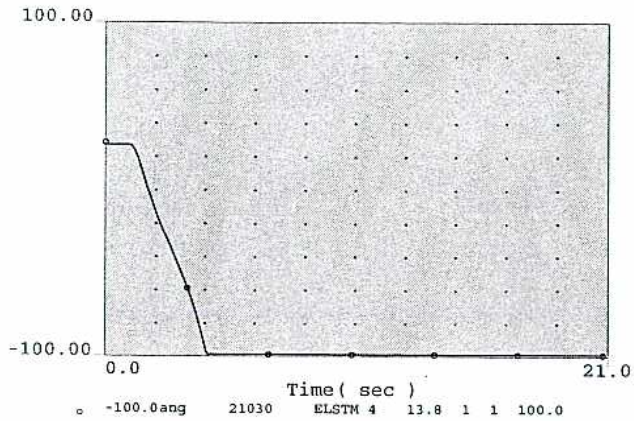
Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)

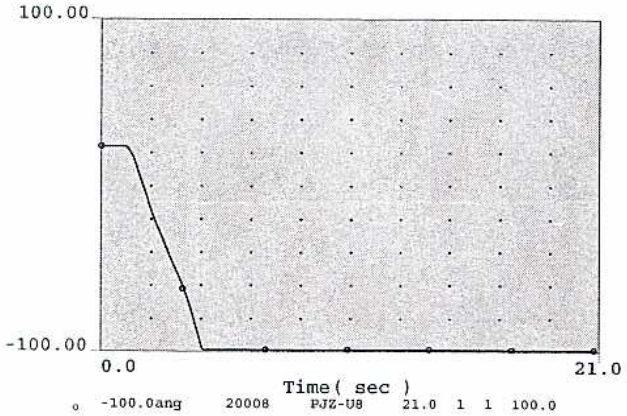
pv_g2_pre.chf

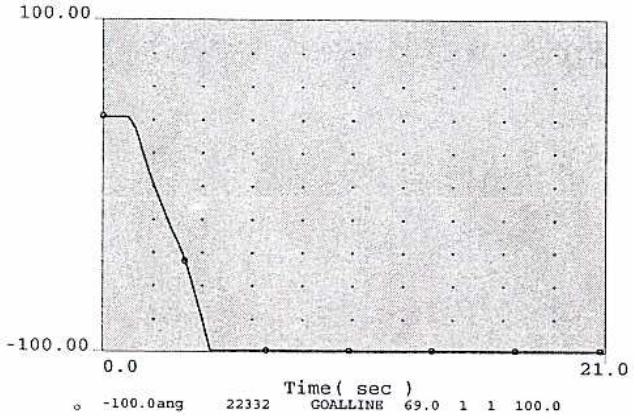
c:\upslf151\mypslf

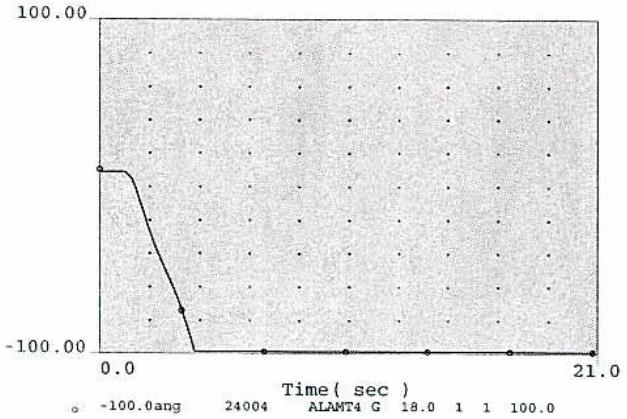
Tue Sep 12 09:56:00 2006

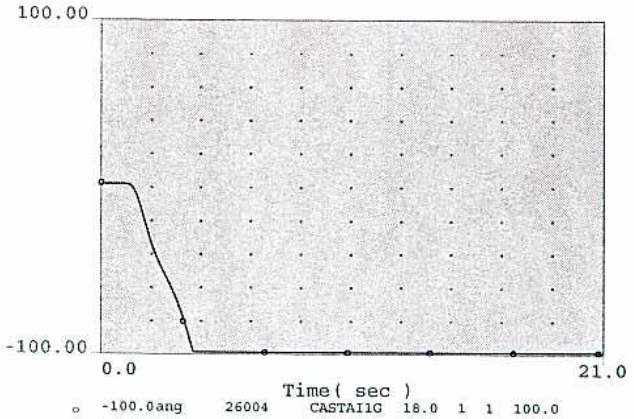












Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)

pv_g2_pre.chf

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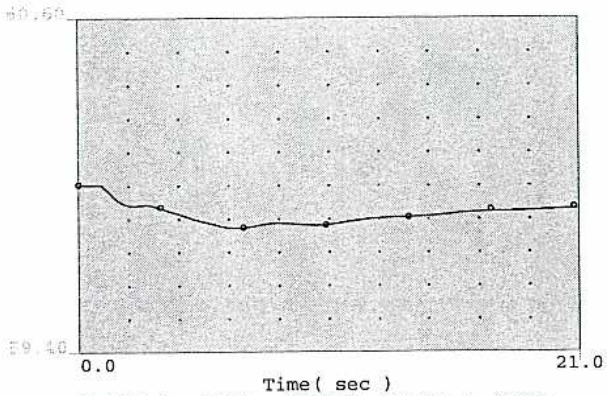
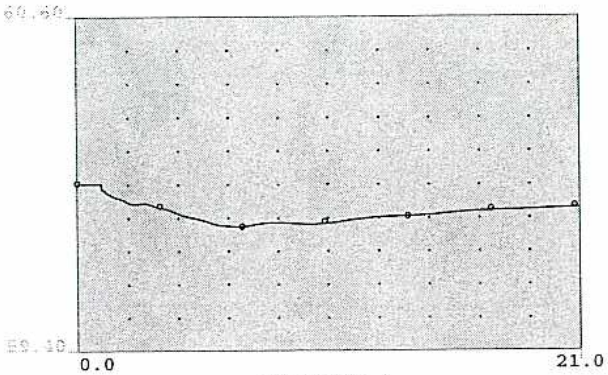
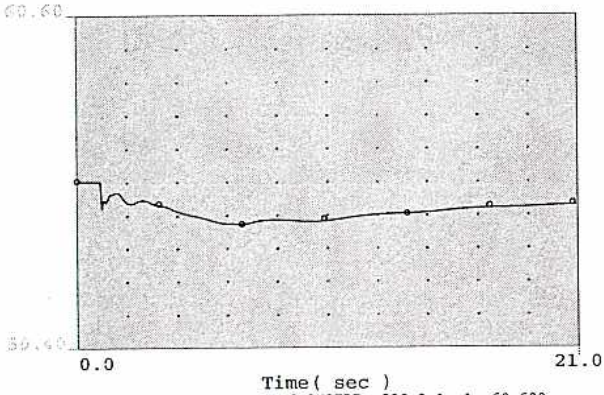


59.400fbul 14231 WESTWING 230.0 1 1 60.600



59.400fbus 24085 LUGO 230.0 1 1 60.600



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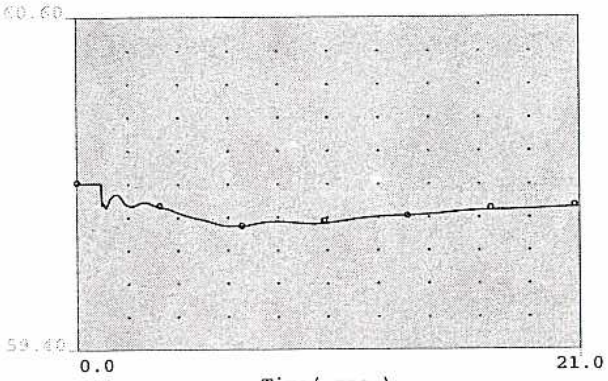
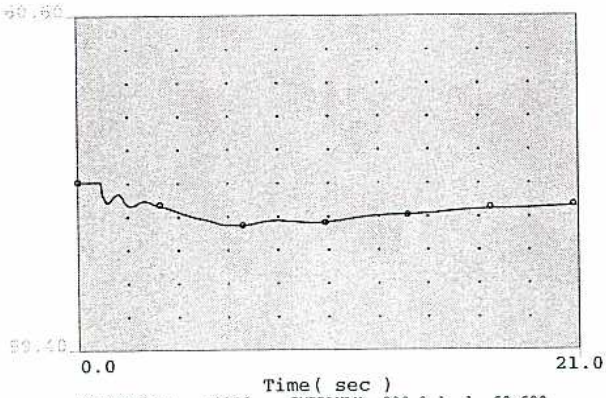
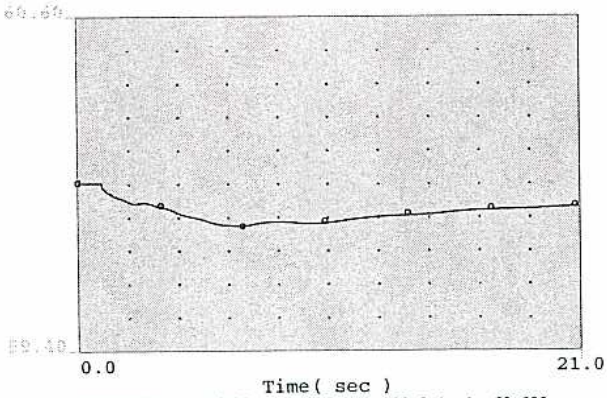


59.400fbus 22464 MIGUEL 230.0 1 1 60.600

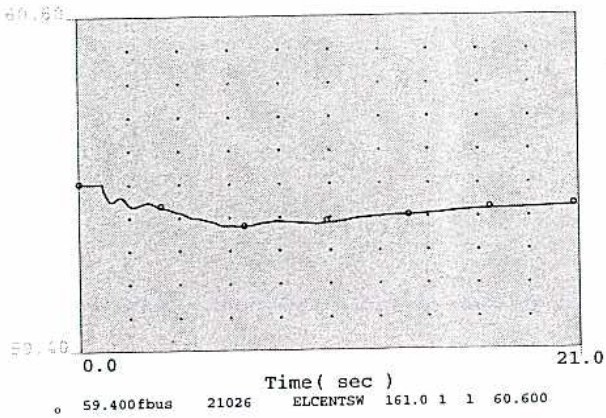


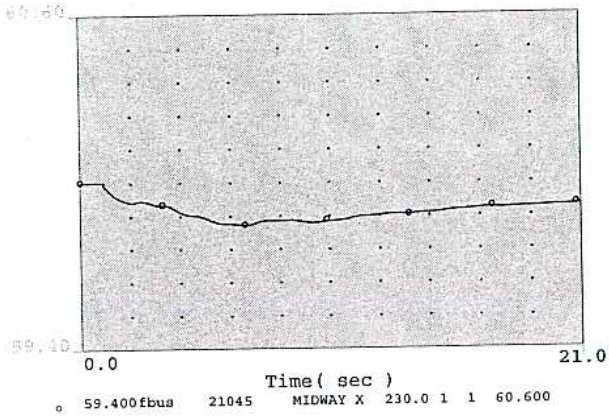
59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600

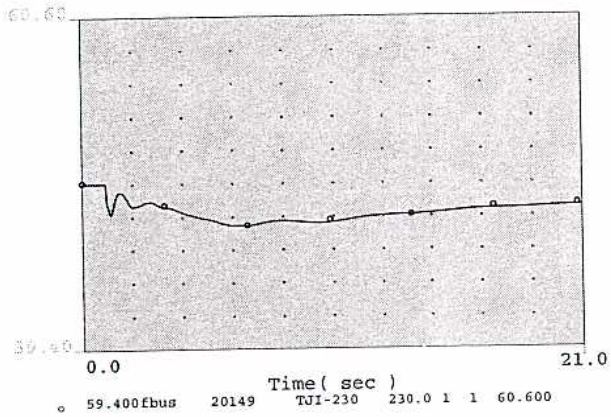


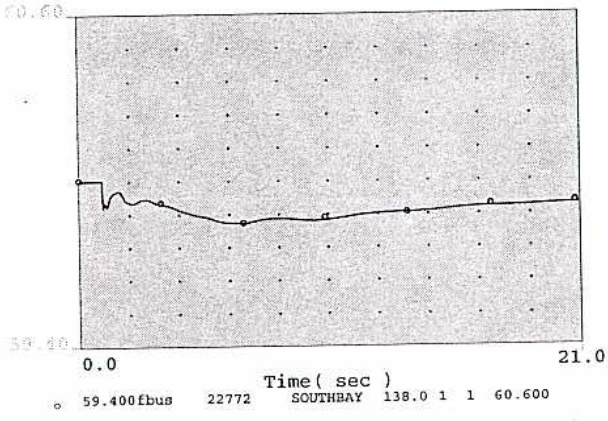
59.400fbus 26105 VICTORVL 500.0 1 1 60.600

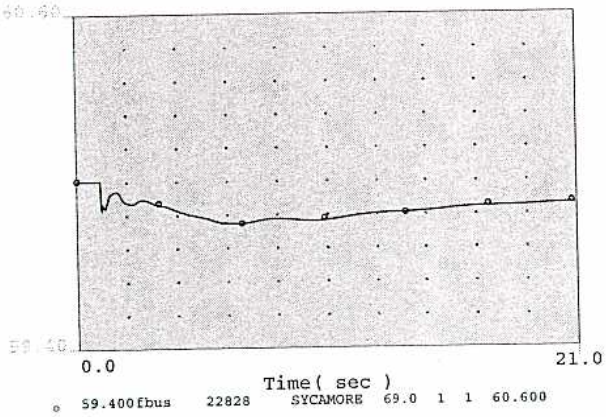
Trip SONGS #2 & #3 units

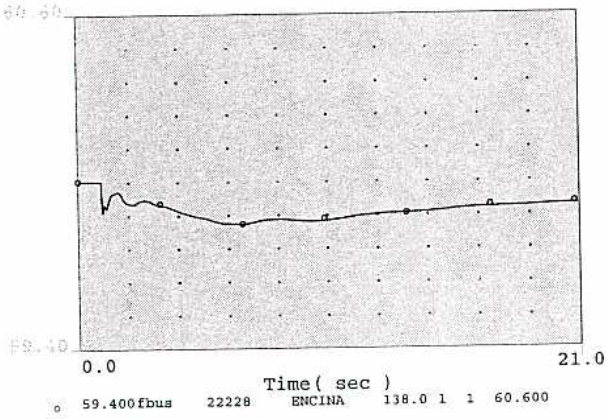




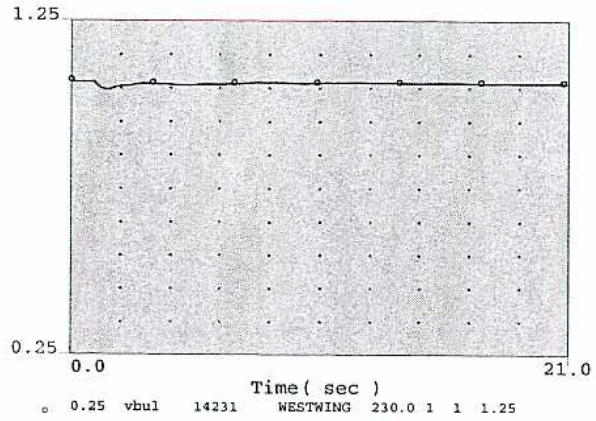


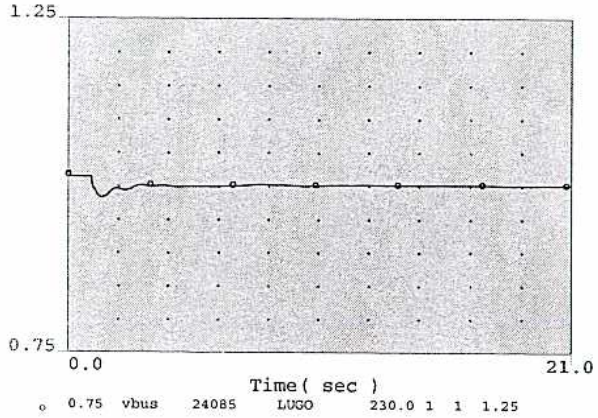


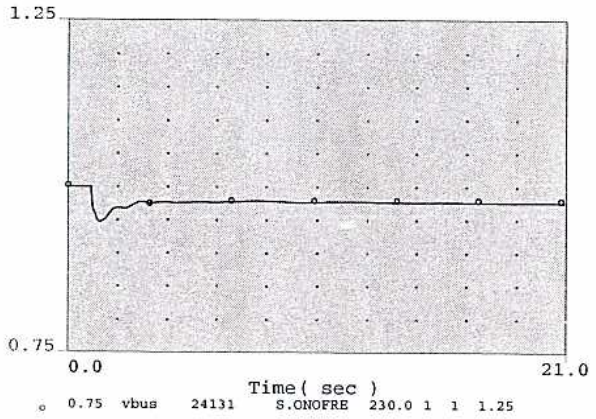


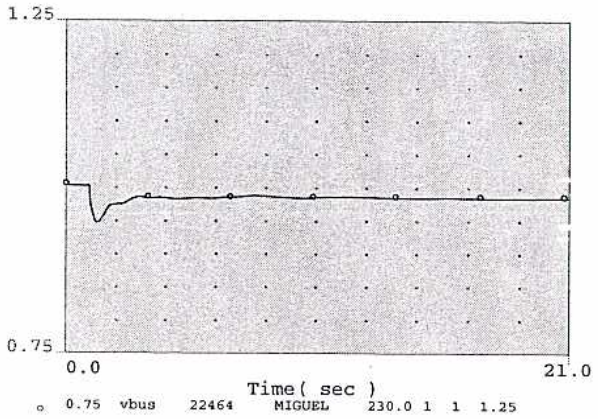


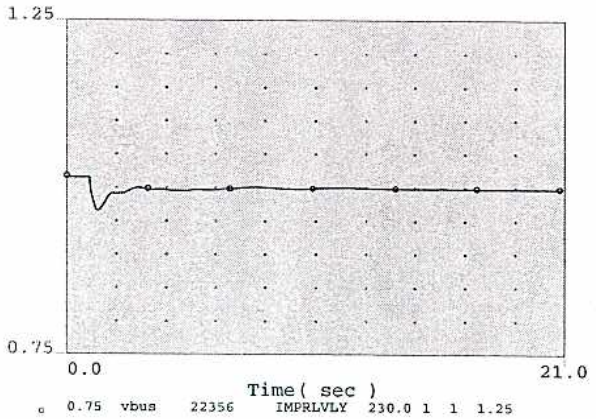
Trip SONGS #2 & #3 units

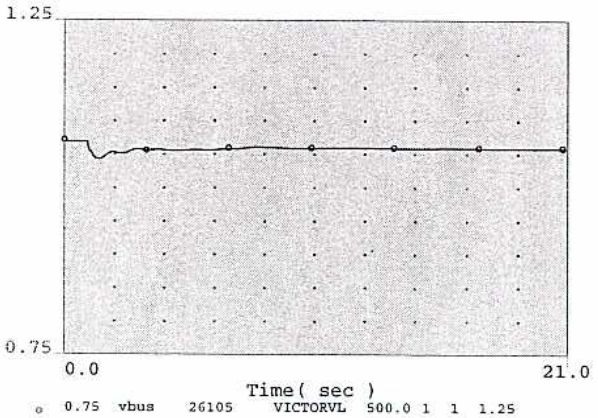




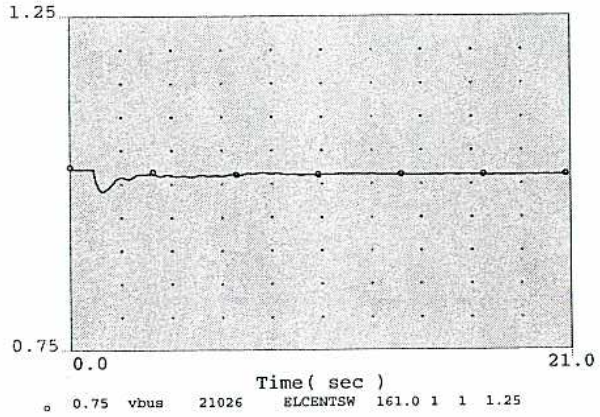


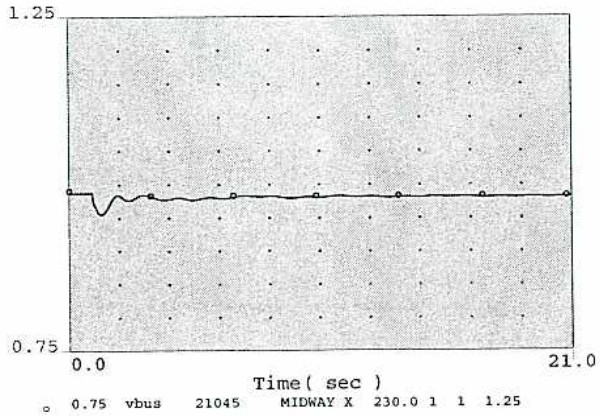


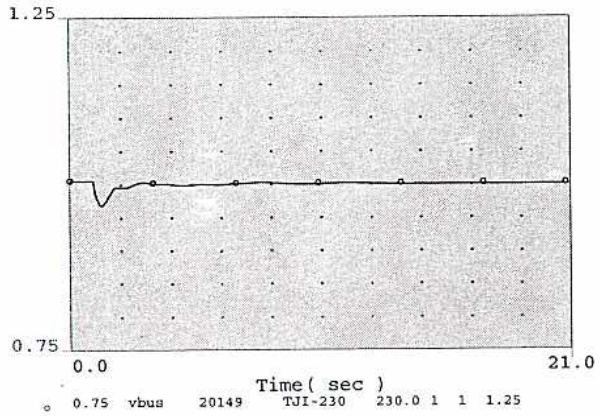


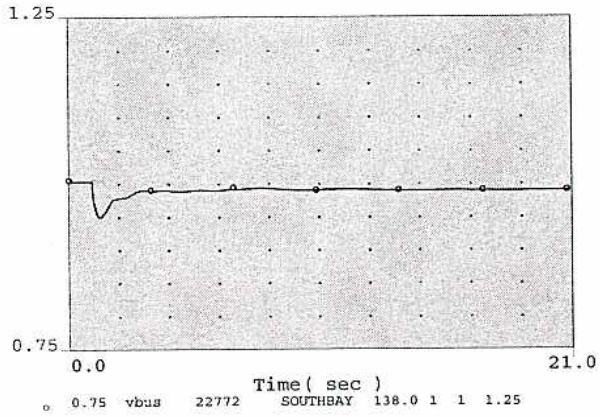


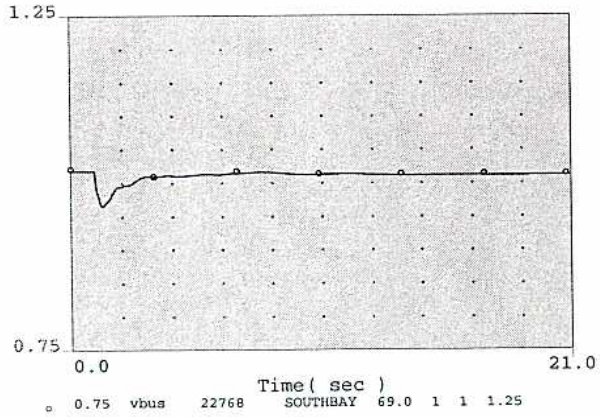
Trip SONGS #2 & #3 units

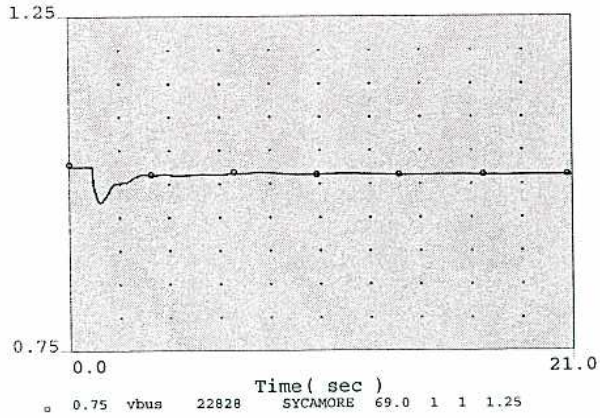




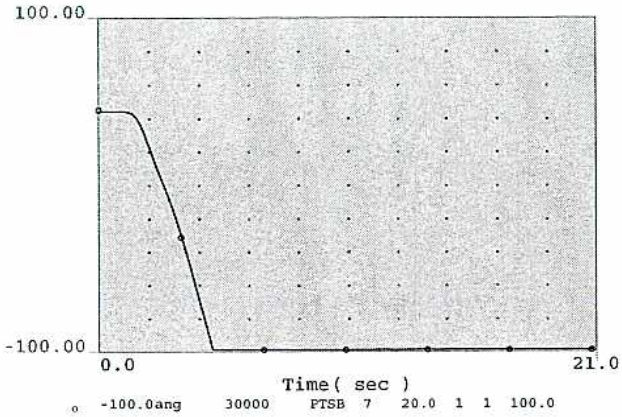


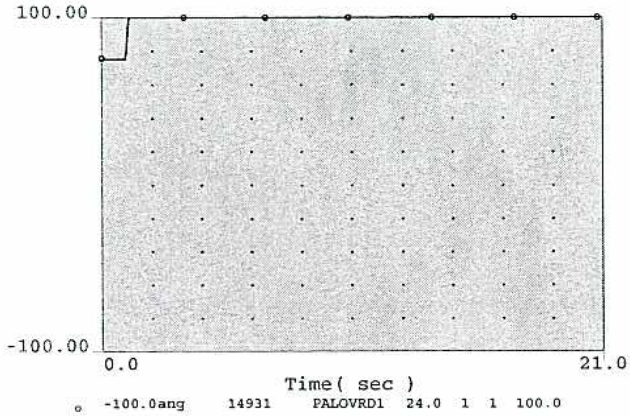


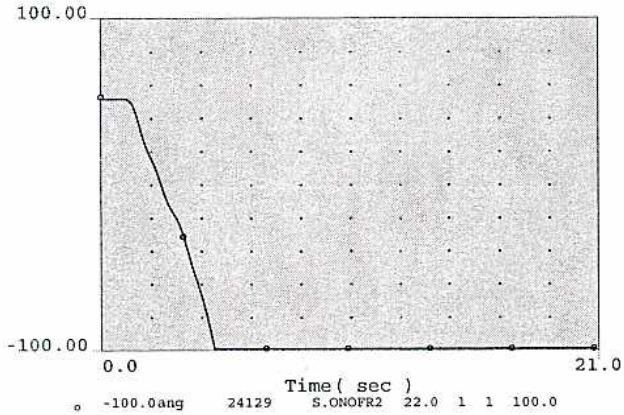


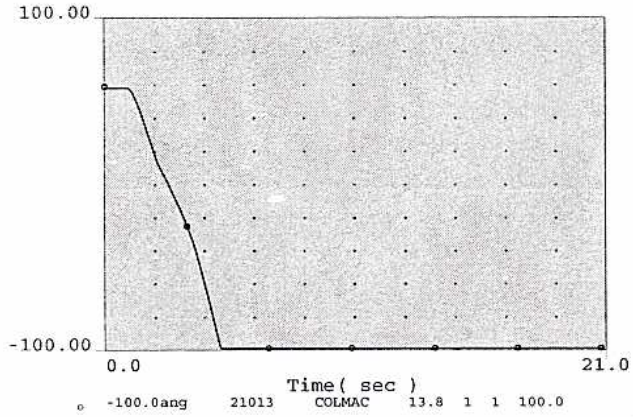


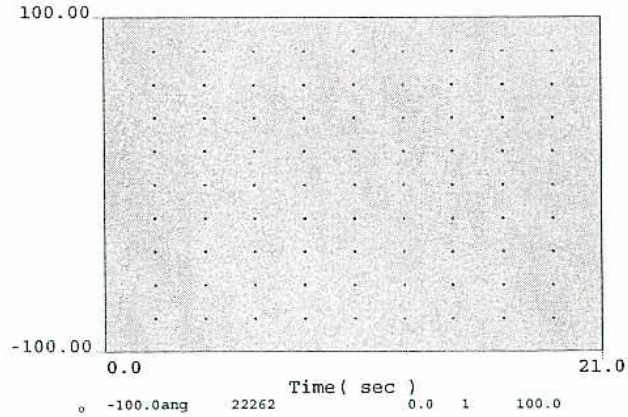
Trip SONGS #2 & #3 units

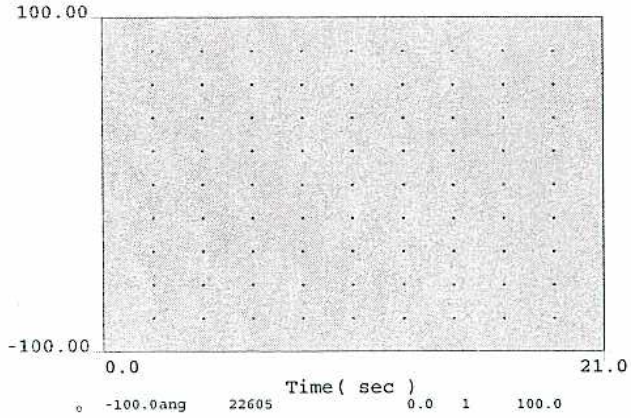












Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)

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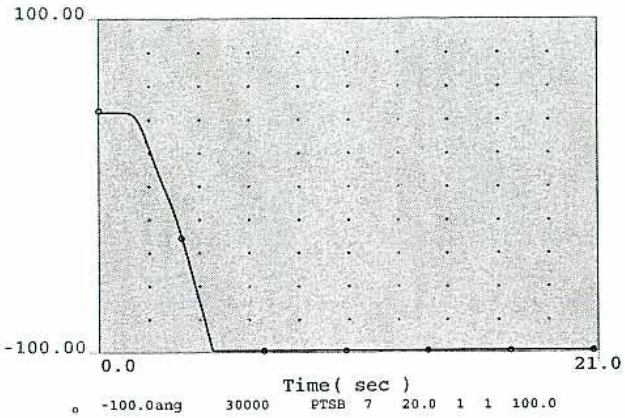
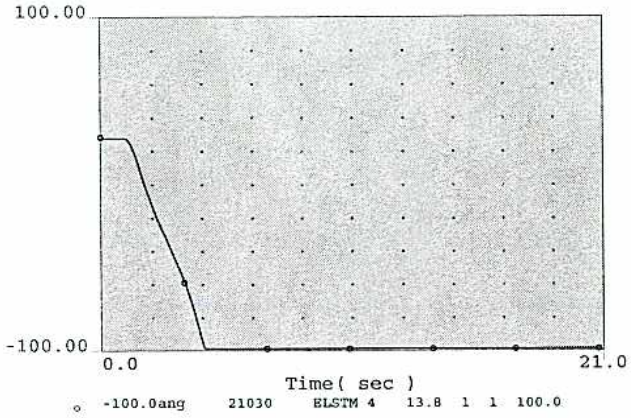
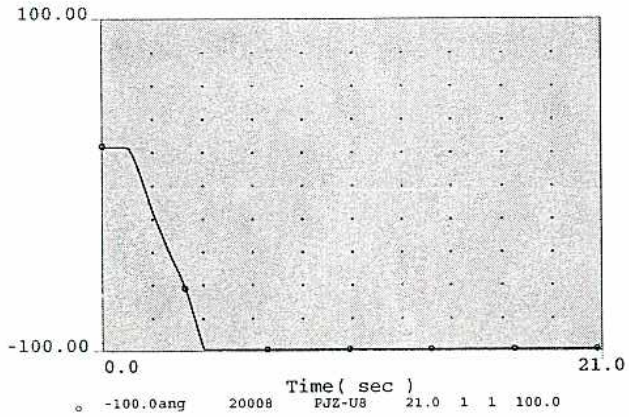
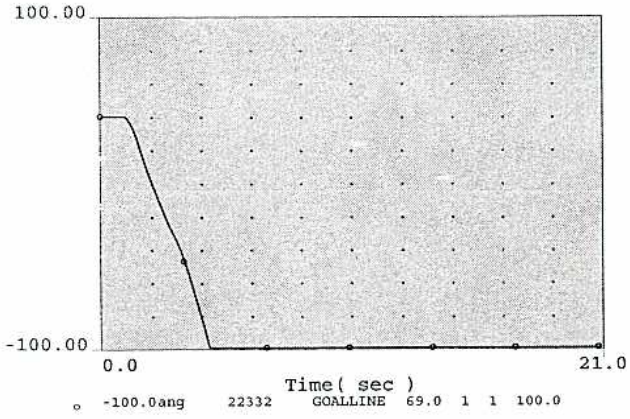
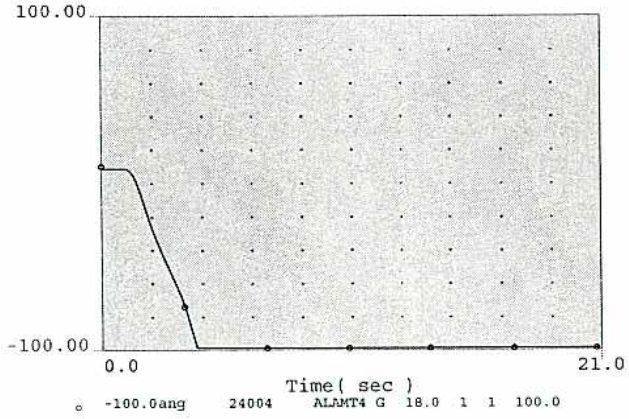
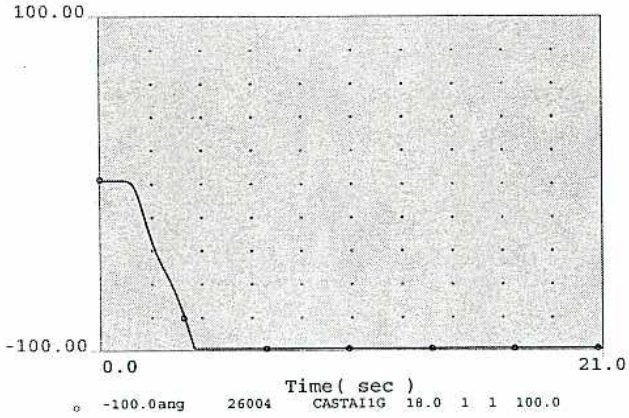




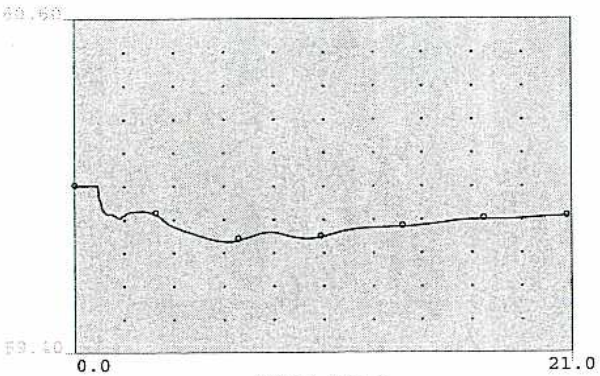




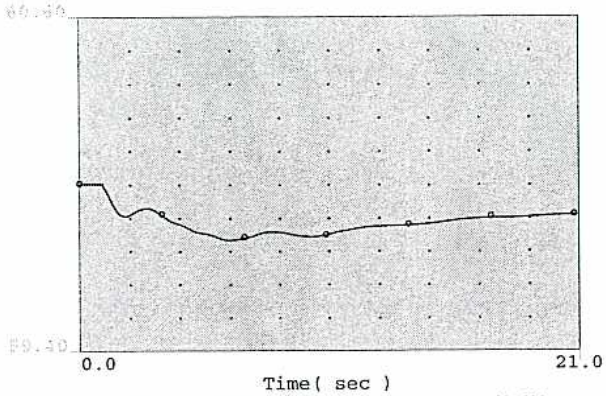




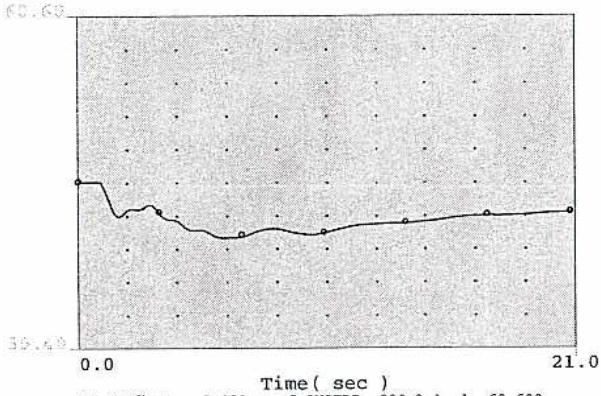
Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)



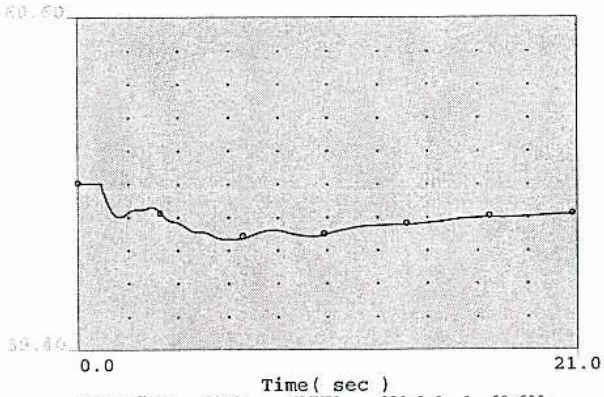
o 59.400fbul 14231 WESTWING 230.0 1 1 60.600



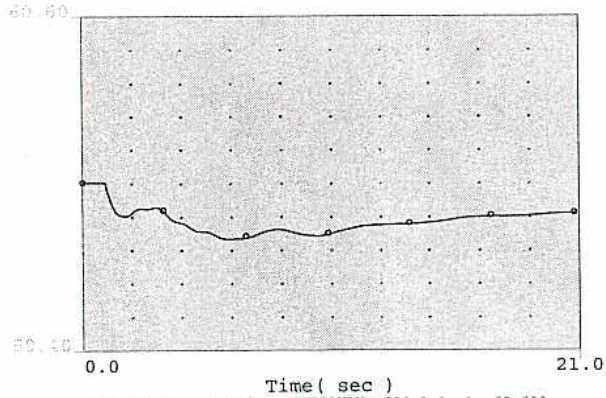
o 59.400fbus 24085 LUGO 230.0 1 1 60.600



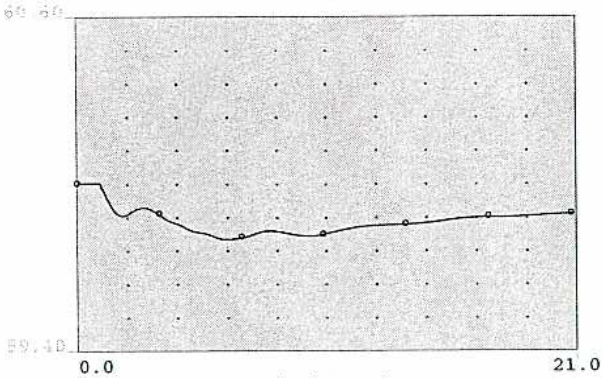
o 59.400fbus 24131 S.ONOFRE 230.0 1 1 60.600



o 59.400fbus 22464 MIGUEL 230.0 1 1 60.600

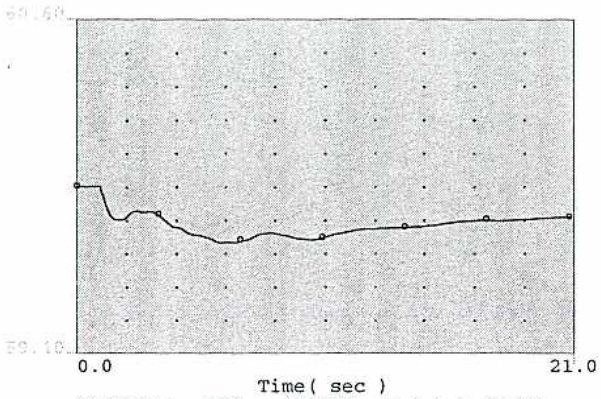


o 59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600

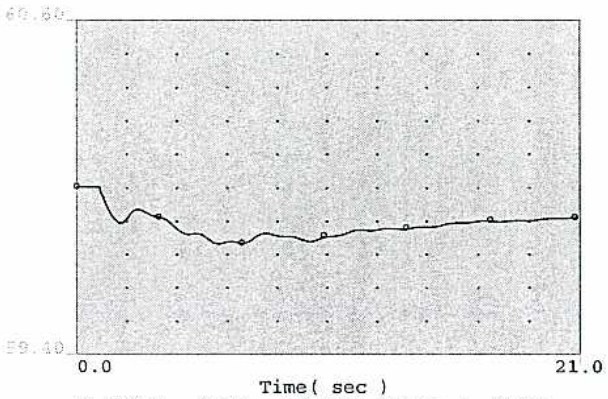


o 59.400fbus 26105 VICTORVL 500.0 1 1 60.600

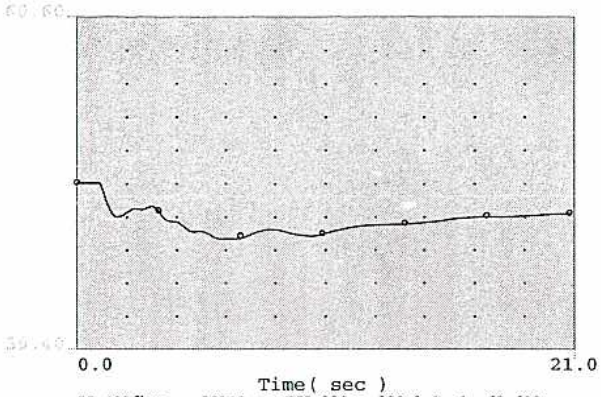
Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)



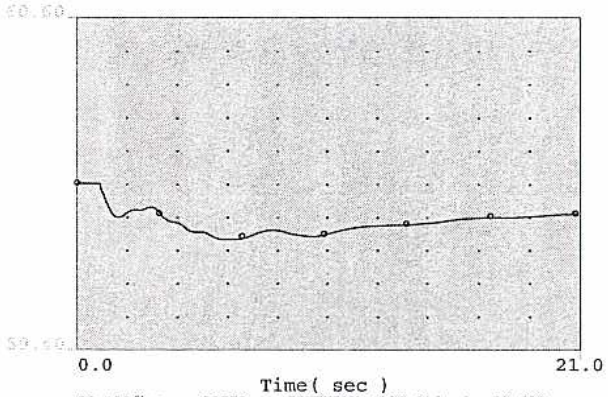
59.400fbus 21026 ELCENTSW 161.0 1 1 60.600



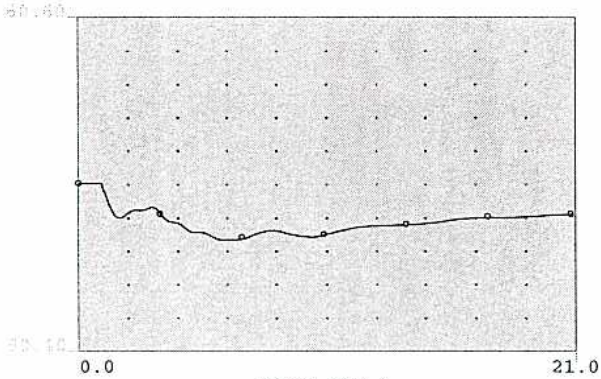
59.400fbus 21045 MIDWAY X 230.0 1 1 60.600



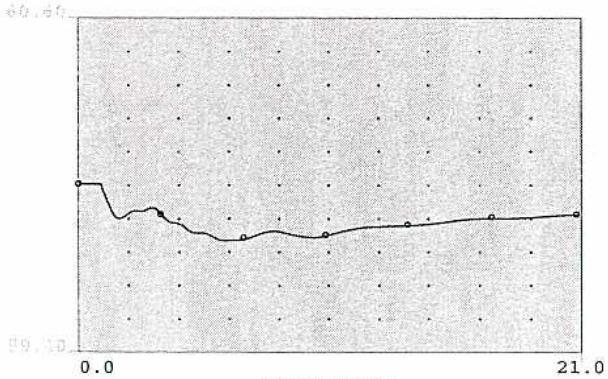
59.400fbus 20149 TJI-230 230.0 1 1 60.600



59.400fbus 22772 SOUTHBAY 138.0 1 1 60.600

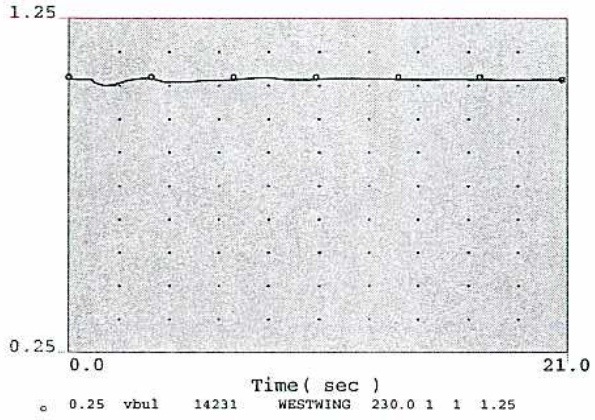


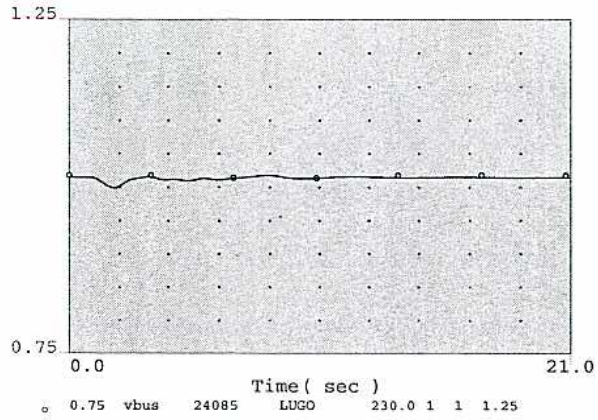
59.400fbus 22828 SYCAMORE 69.0 1 1 60.600

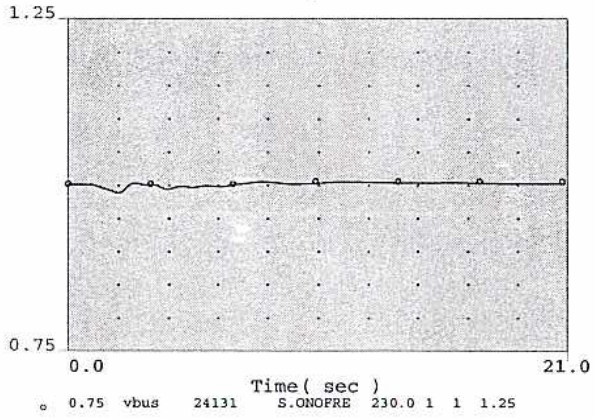


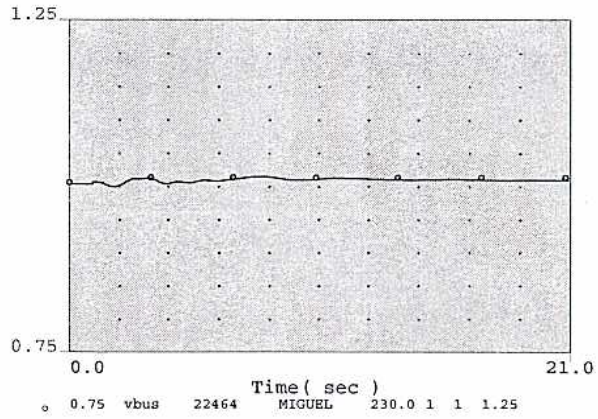
59.400fbus 22228 ENCINA 138.0 1 1 60.600

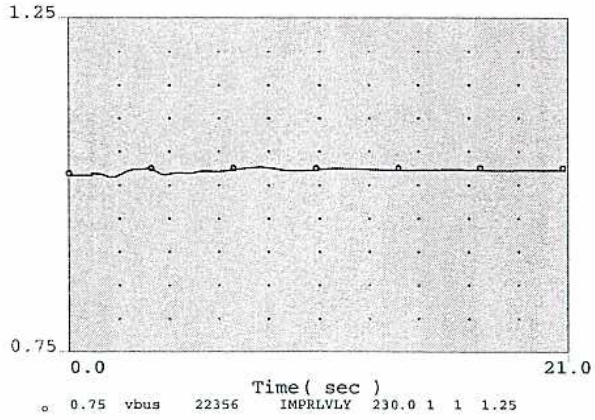
Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)

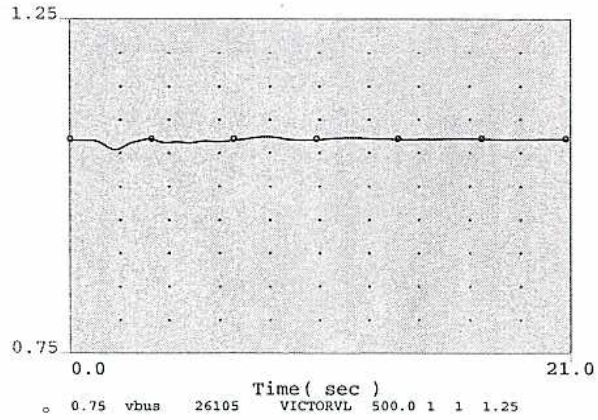




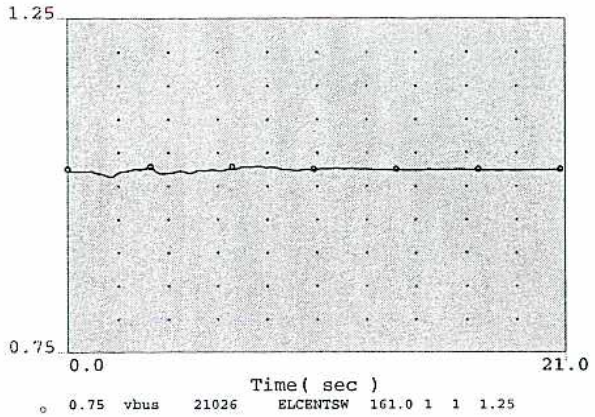


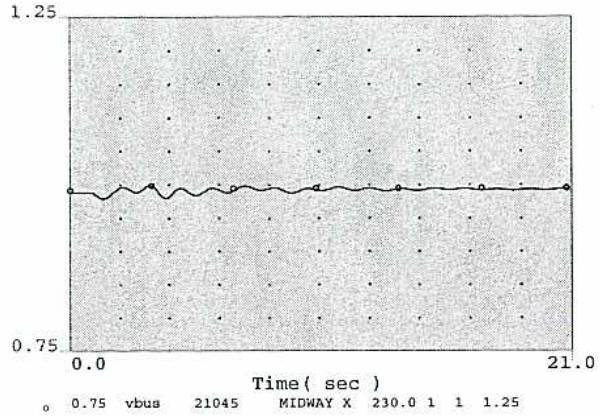


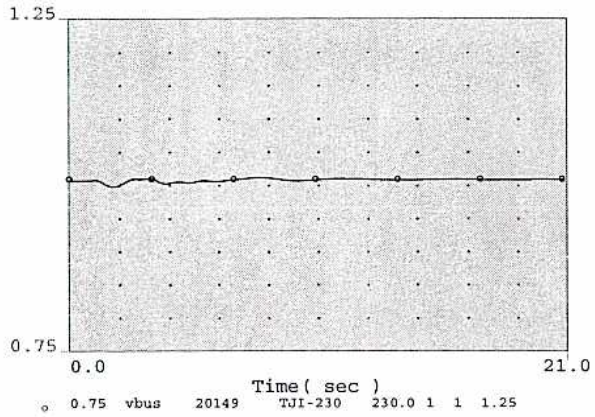


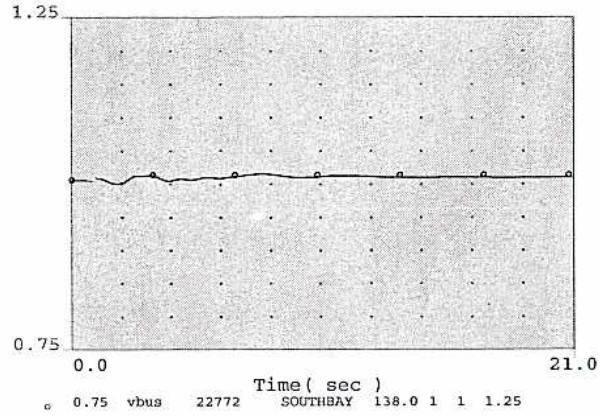


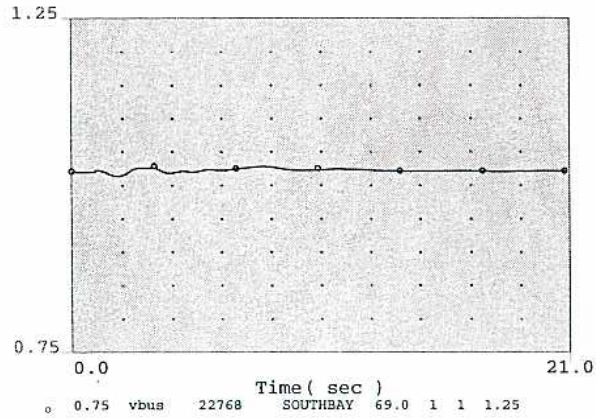
Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)

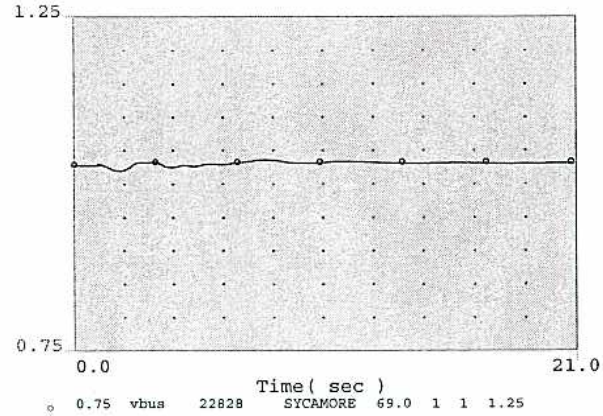




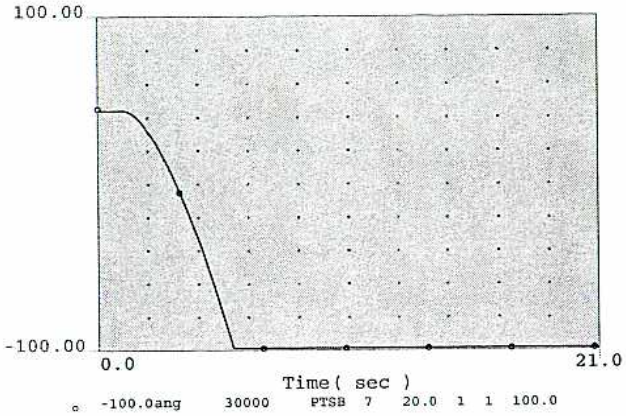


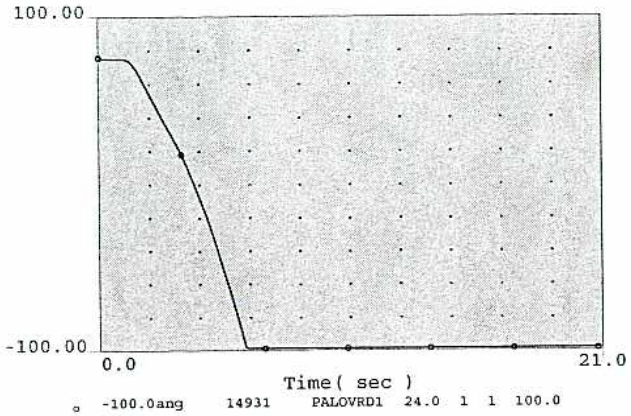


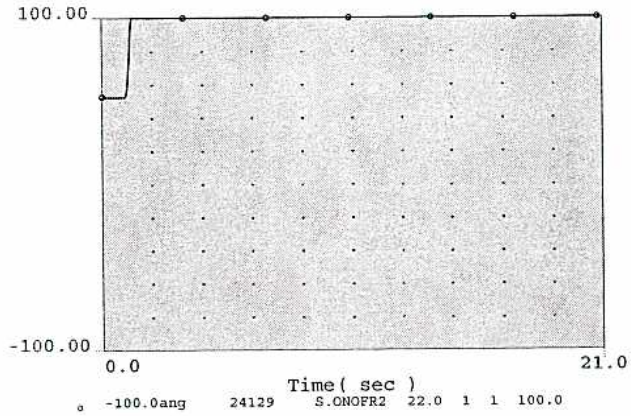


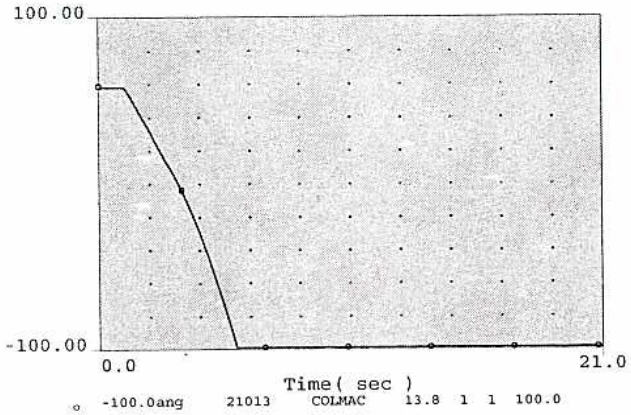


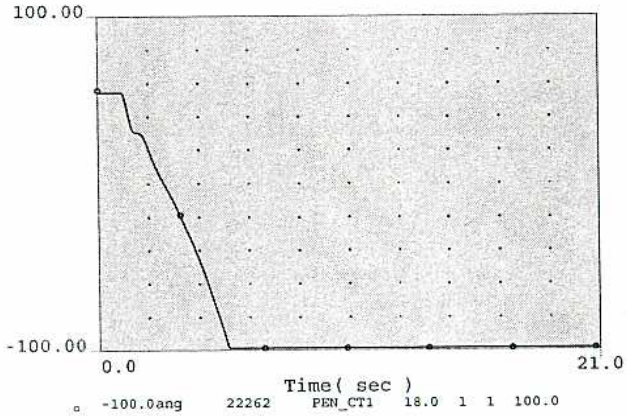
Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)

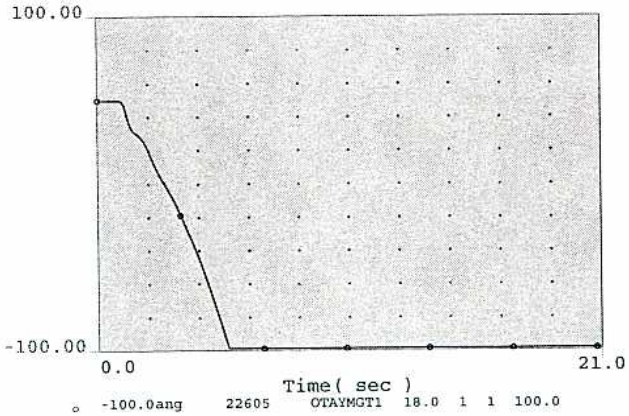












Trip SONGS #2 & #3 units

songs_g2_pre.chf

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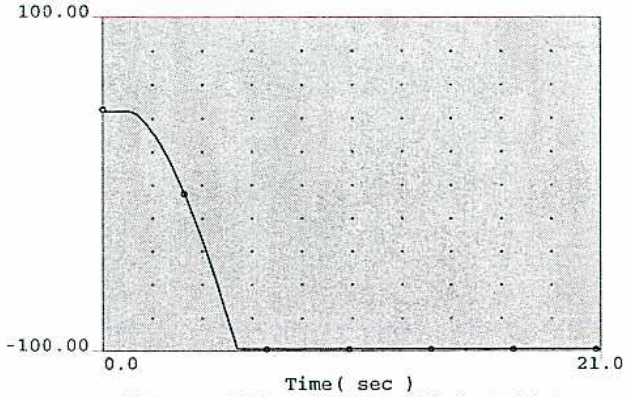
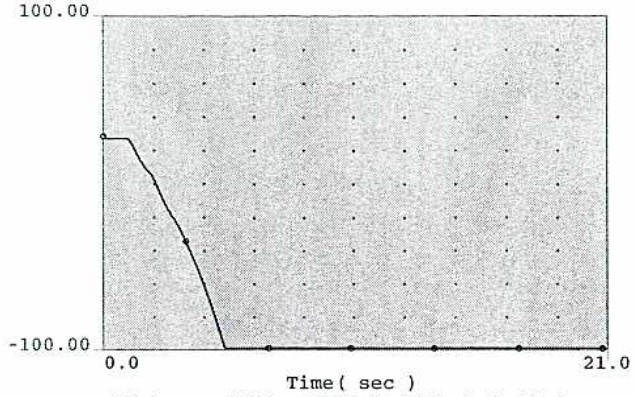
Tue Sep 12 09:56:32 2006



o -100.0ang 30000 PTSB 7 20.0 1 1 100.0



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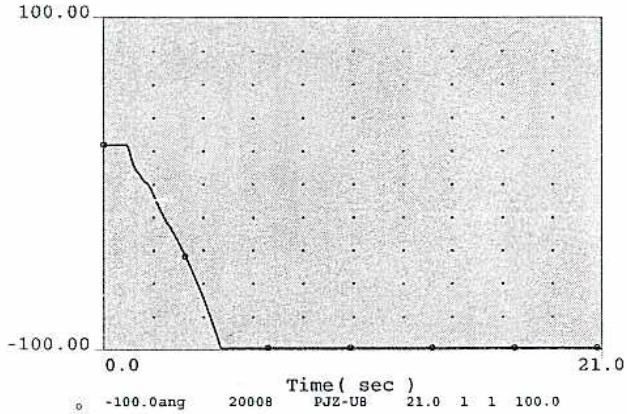

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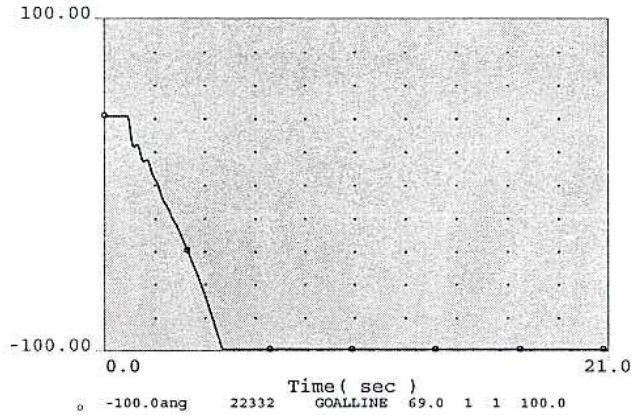
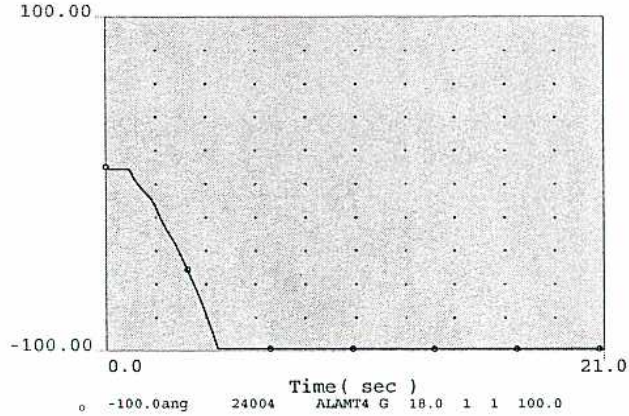
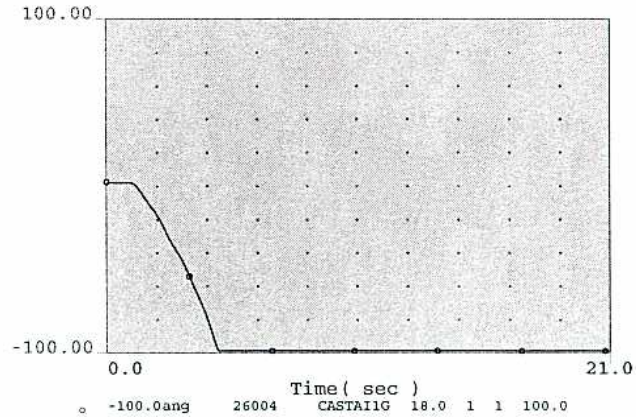


o -100.0ang 22332 GOALLINE 69.0 1 1 100.0

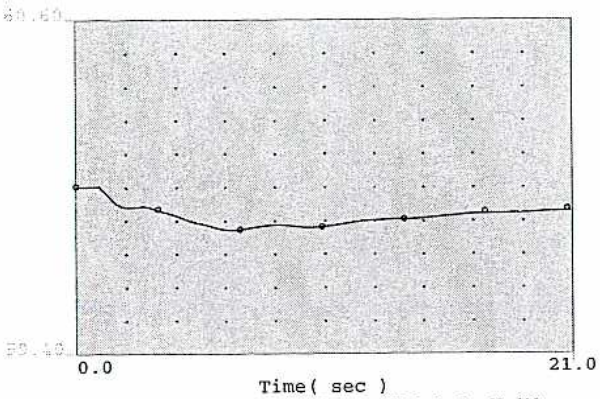


o -100.0ang 24004 ALAMT4 G 18.0 1 1 100.0

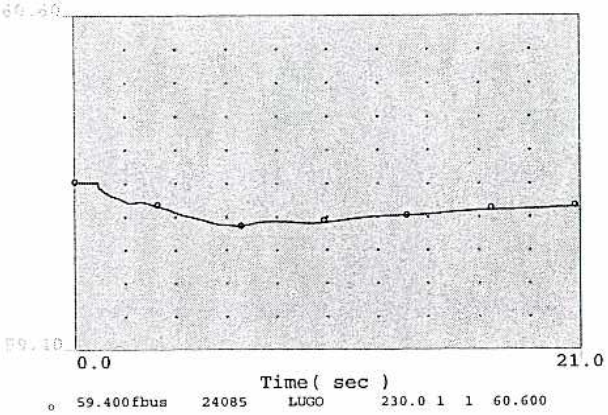


o -100.0ang 26004 CASTAI1G 18.0 1 1 100.0

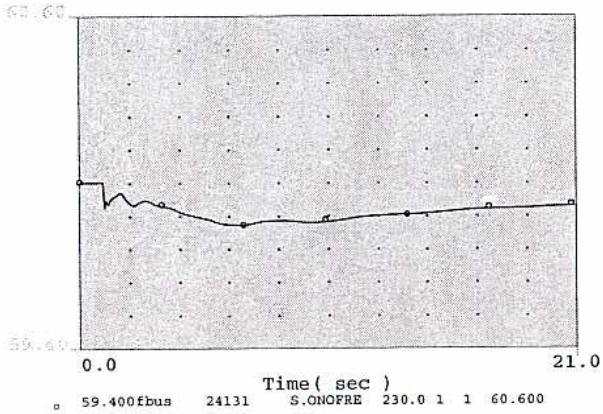
Trip SONGS #2 & #3 units



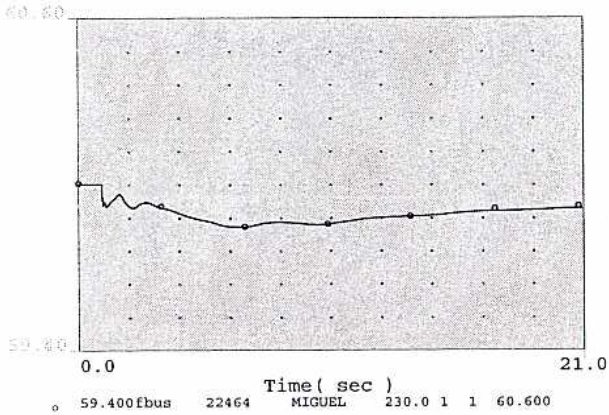
59.400fbul 14231 WESTWING 230.0 1 1 60.600



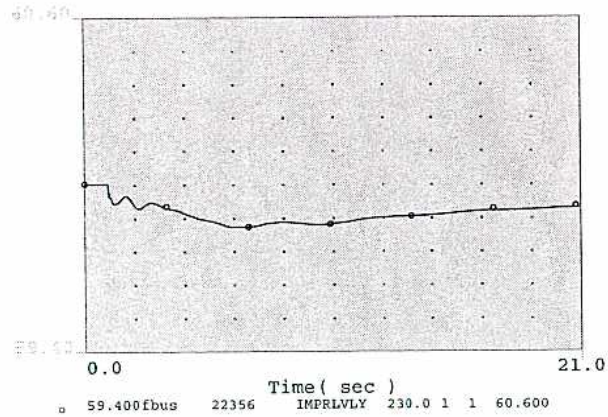
59.400fbus 24085 LUGO 230.0 1 1 60.600



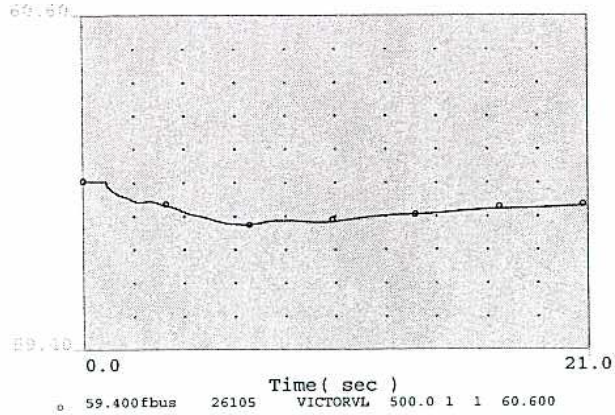
59.400fbus 24131 S.ONOFRE 230.0 1 1 60.600



59.400fbus 22464 MIGUEL 230.0 1 1 60.600

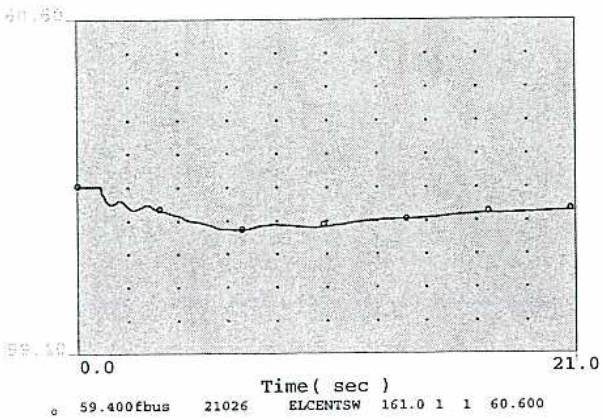


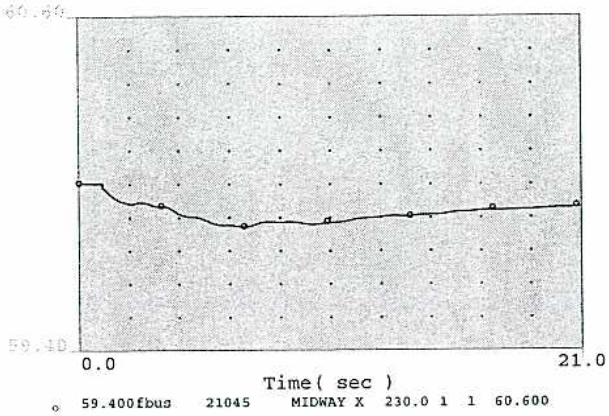
59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600

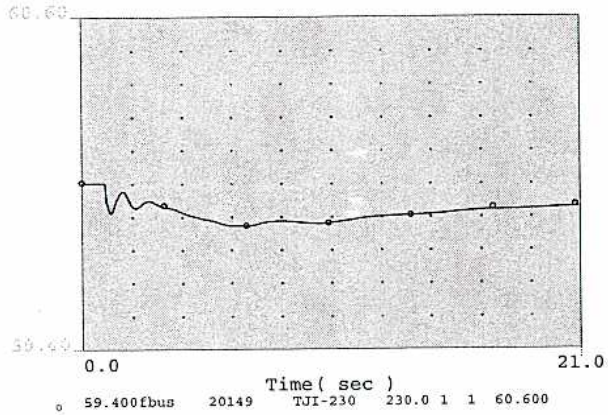


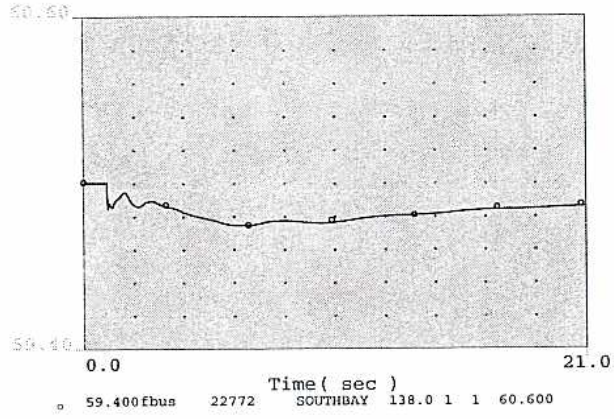
59.400fbus 26105 VICTORVL 500.0 1 1 60.600

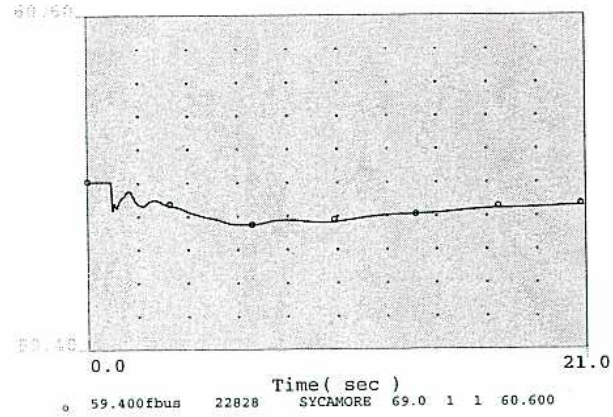
Trip SONGS #2 & #3 units

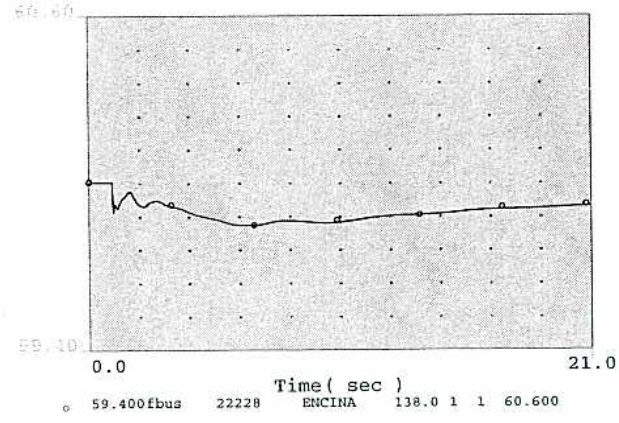




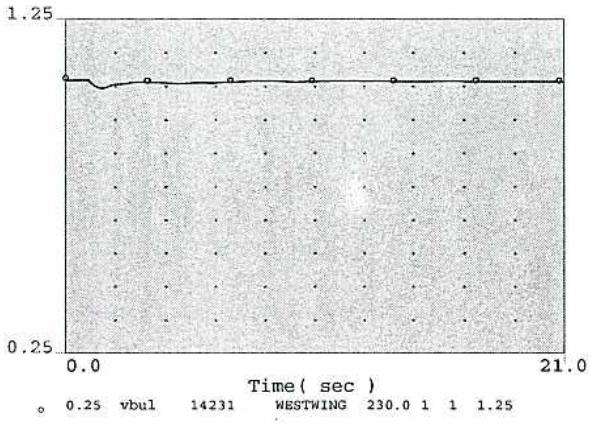


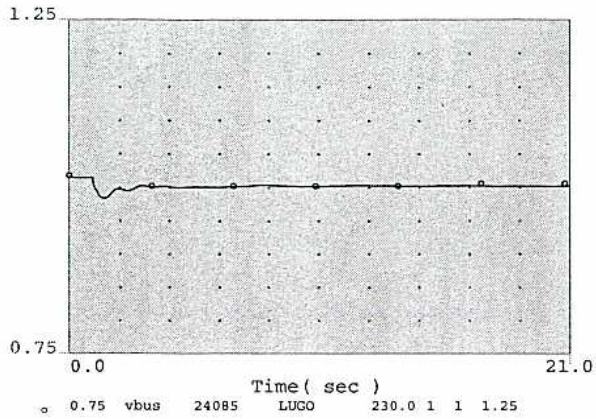


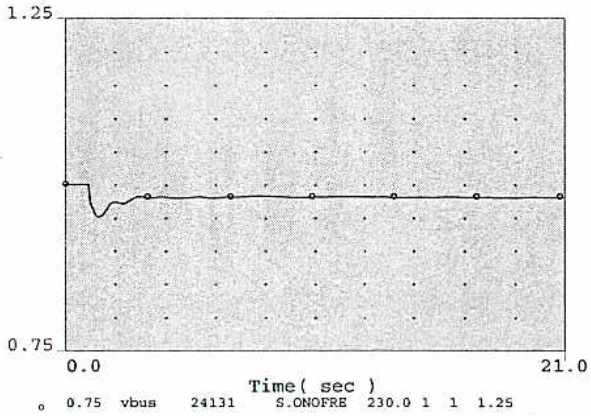


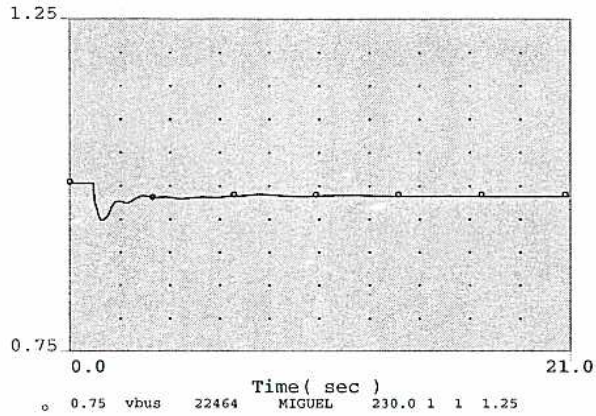


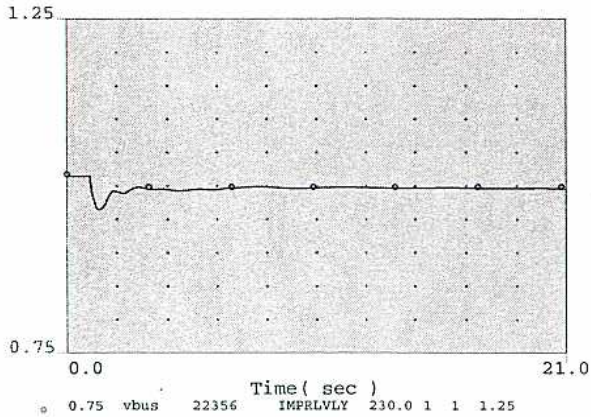
Trip SONGS #2 & #3 units

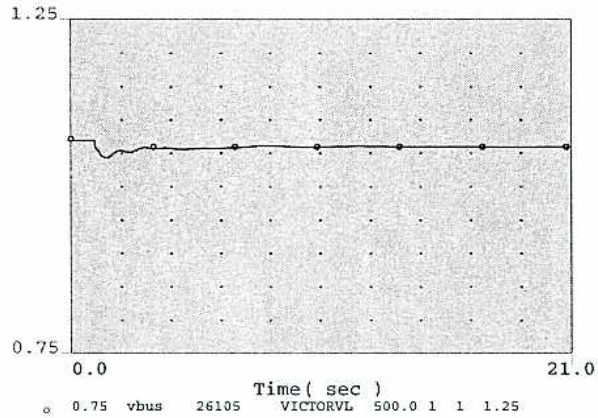




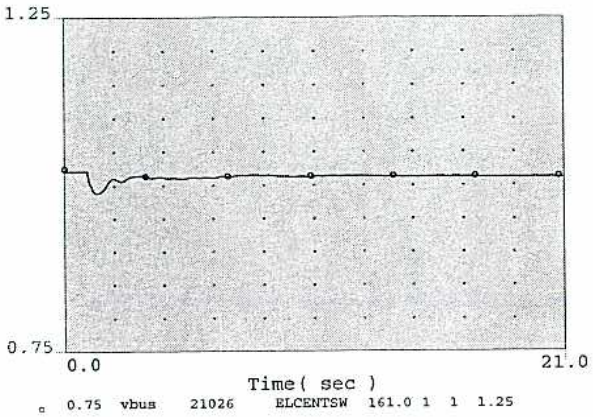




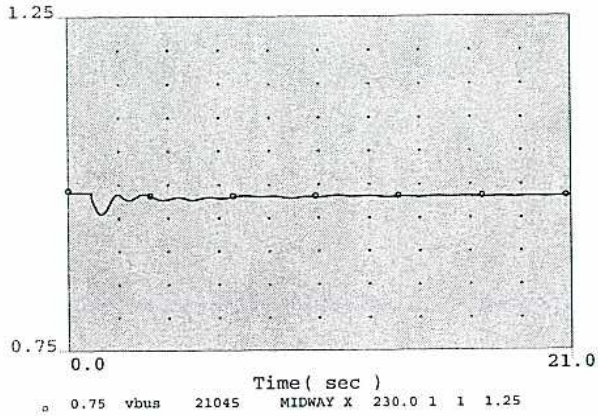




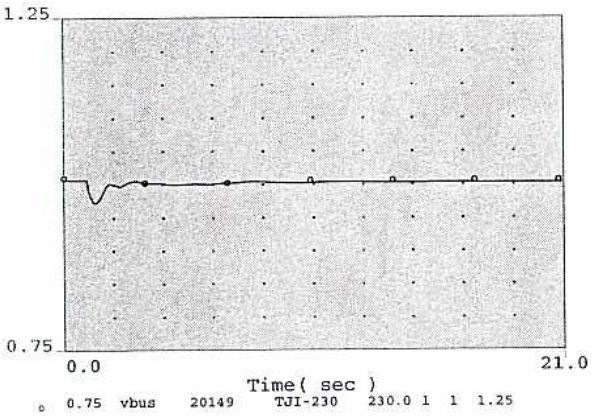
Trip SONGS #2 & #3 units



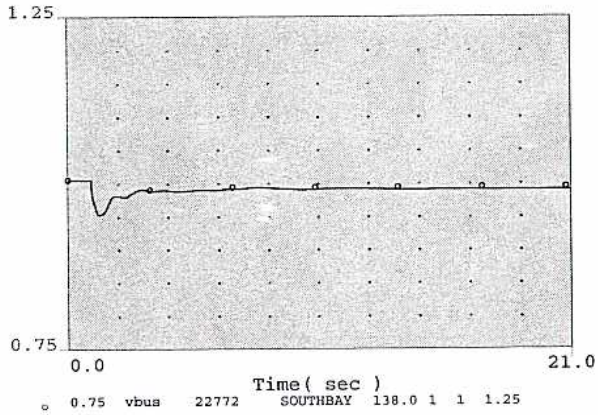
0.75 vbus 21026 ELCENTSW 161.0 1 1 1.25



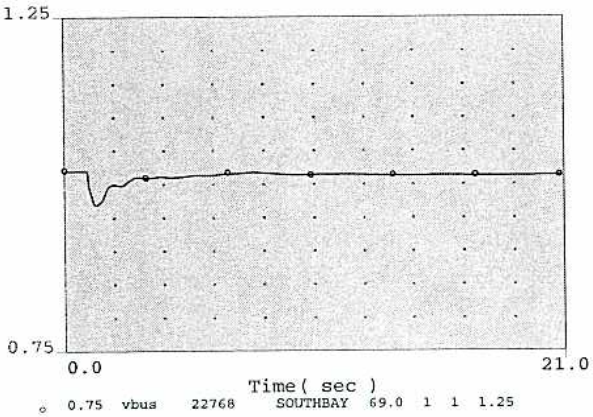
0.75 vbus 21045 MIDWAY X 230.0 1 1 1.25



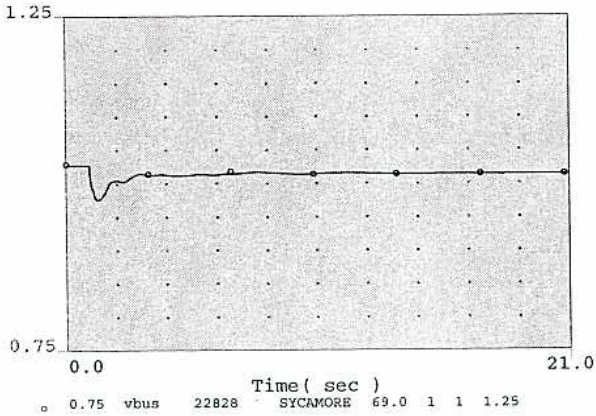
0.75 vbus 20149 TJI-230 230.0 1 1 1.25



0.75 vbus 22772 SOUTHBAY 138.0 1 1 1.25

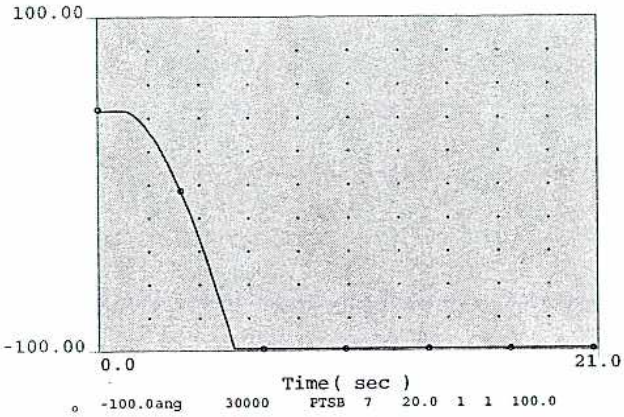


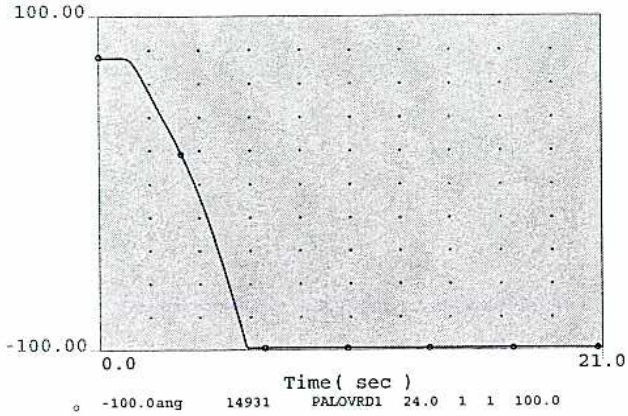
0.75 vbus 22768 SOUTHBAY 69.0 1 1 1.25

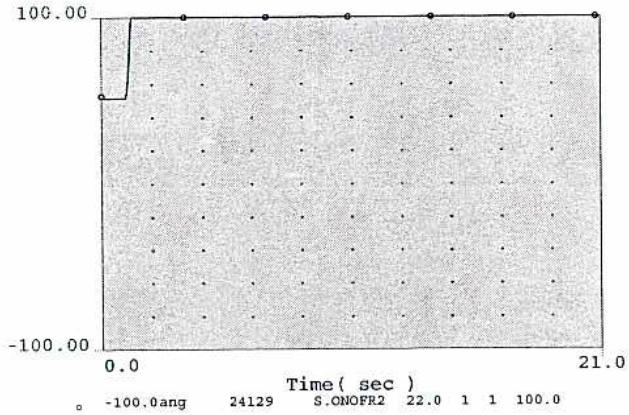


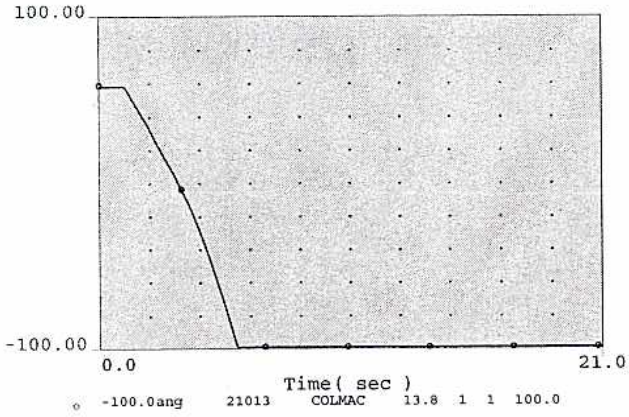
0.75 vbus 22828 SYCAMORE 69.0 1 1 1.25

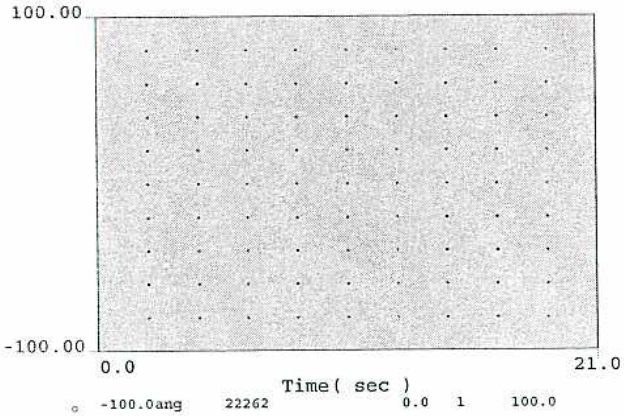
Trip SONGS #2 & #3 units

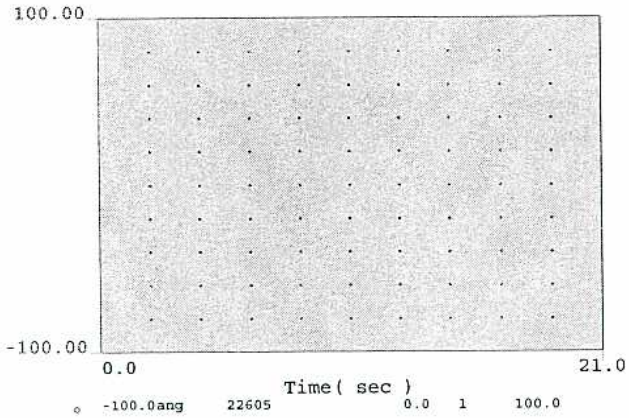




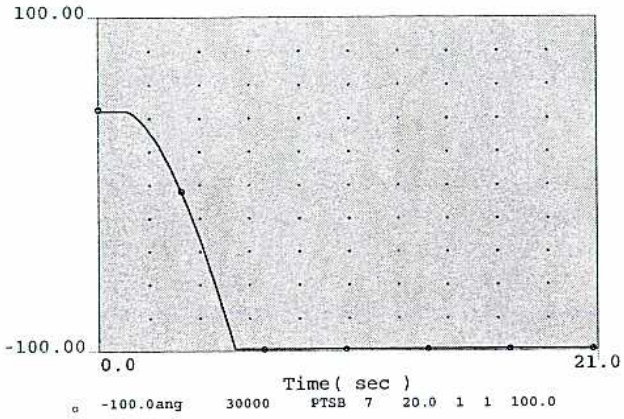


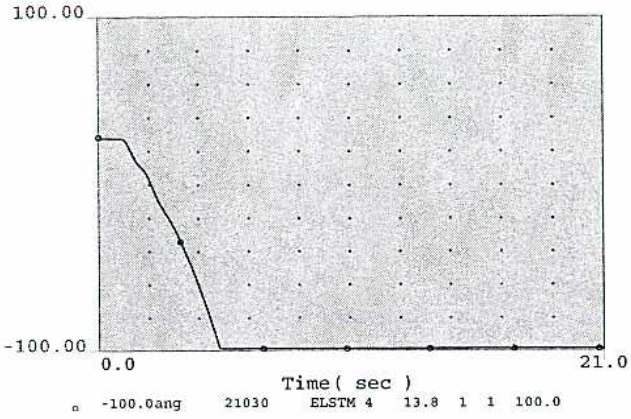


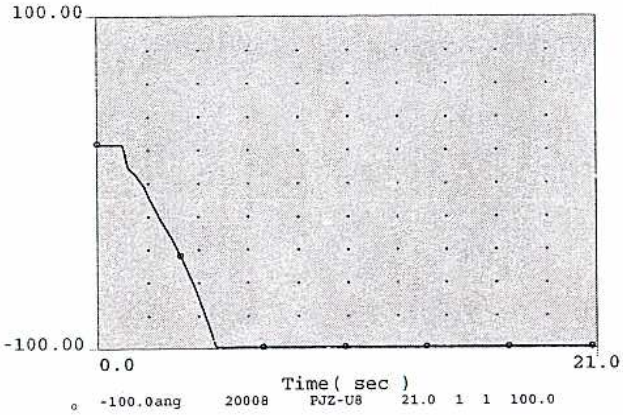


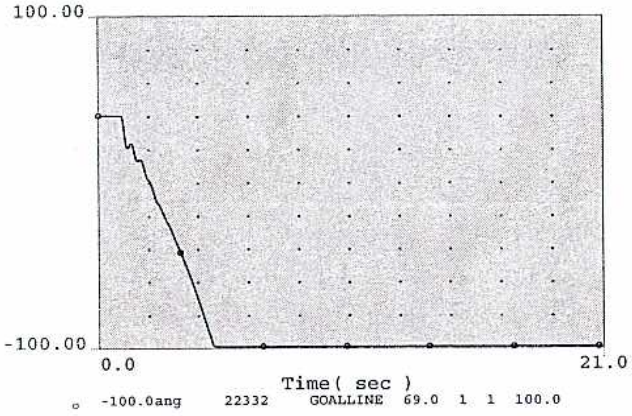


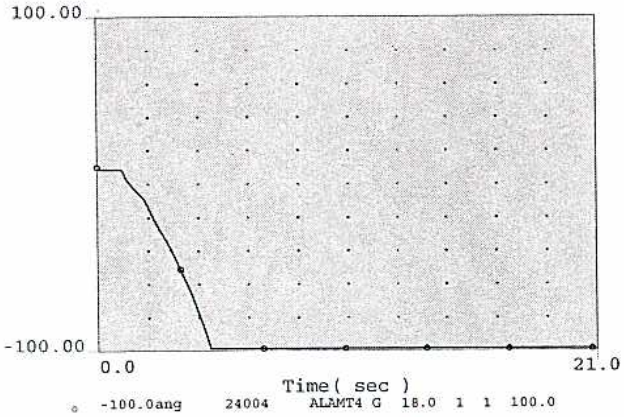
Trip SONGS #2 & #3 units

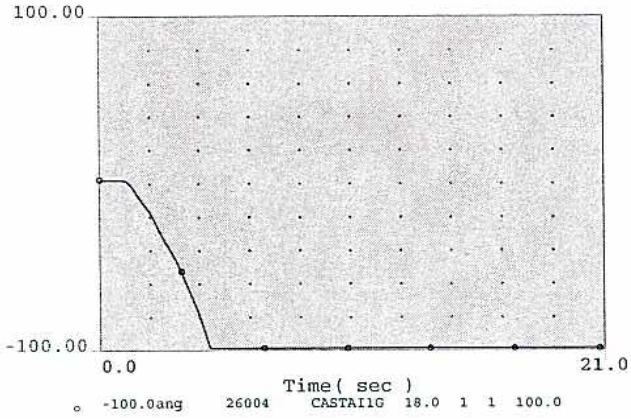




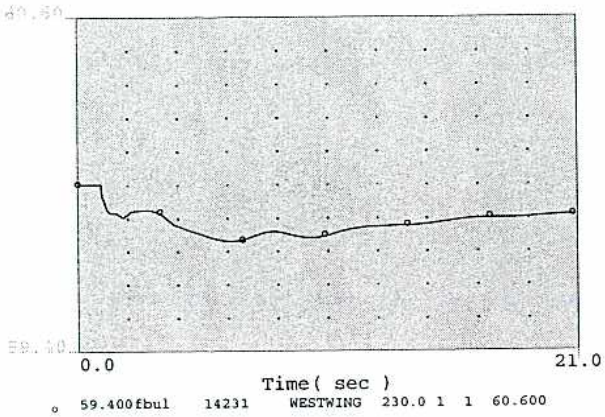




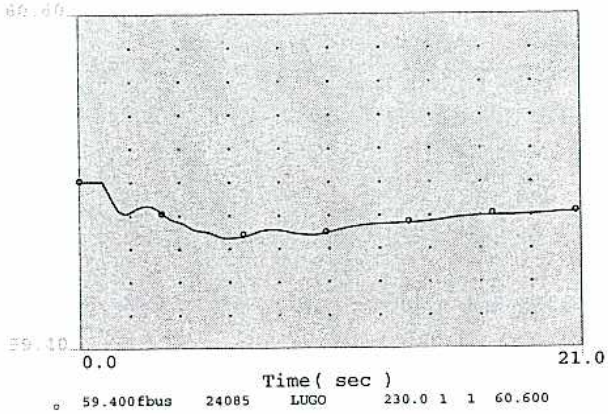




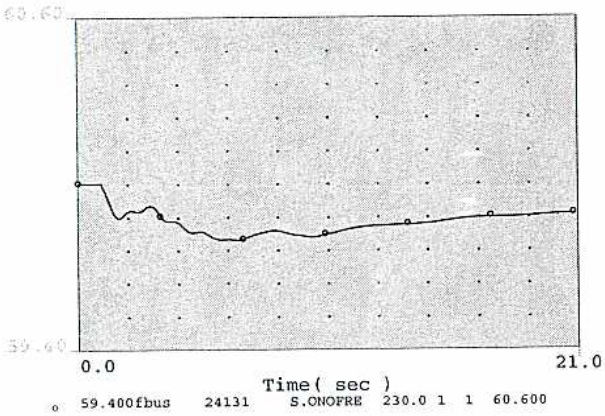
Trip SONGS #2 & #3 units



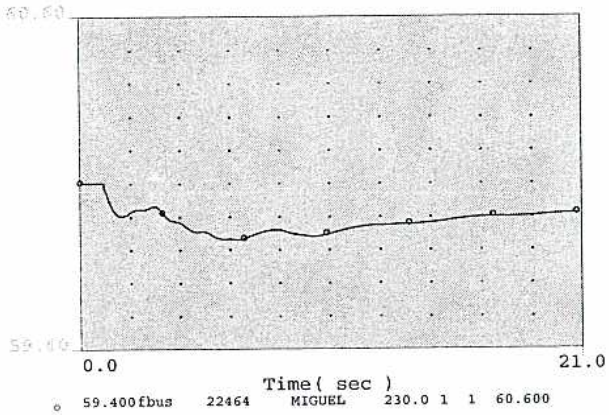
59.400fbus 14231 WESTWING 230.0 1 1 60.600



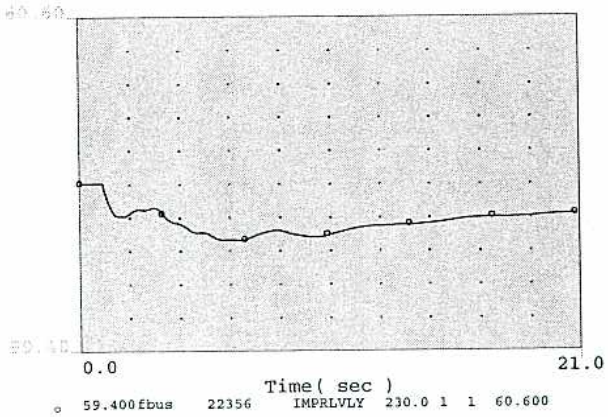
59.400fbus 24085 LUGO 230.0 1 1 60.600



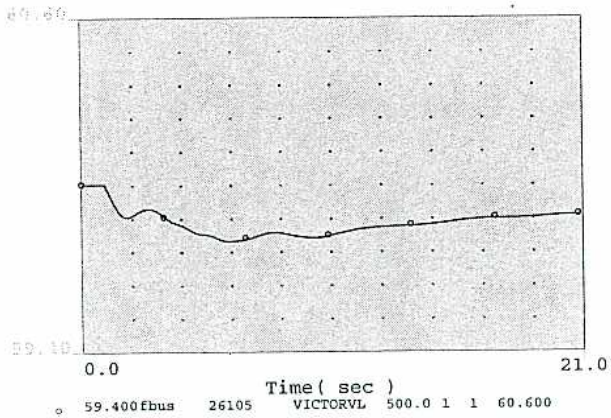
59.400fbus 24131 S.ONOFRE 230.0 1 1 60.600



59.400fbus 22464 MIGUEL 230.0 1 1 60.600

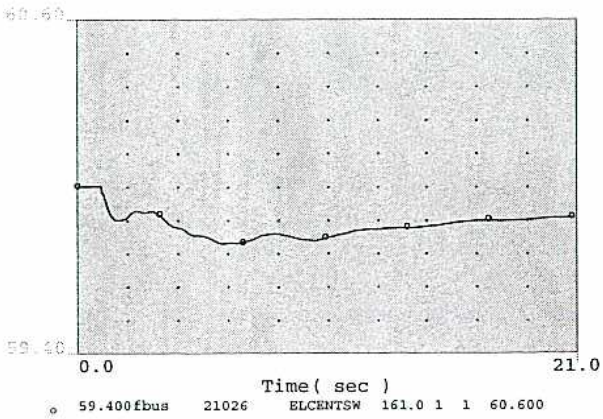


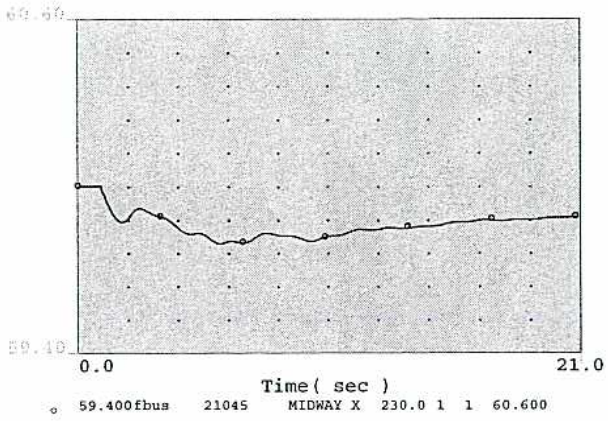
59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600

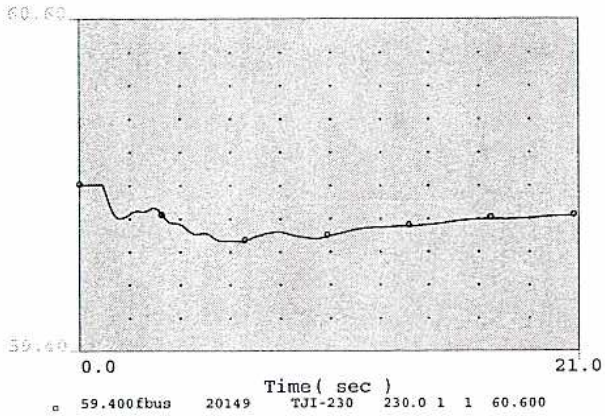


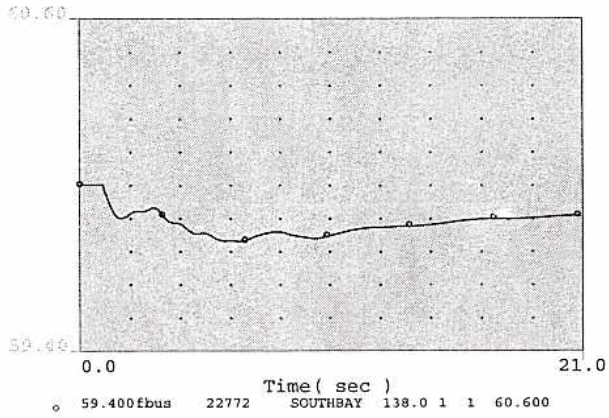
59.400fbus 26105 VICTORVL 500.0 1 1 60.600

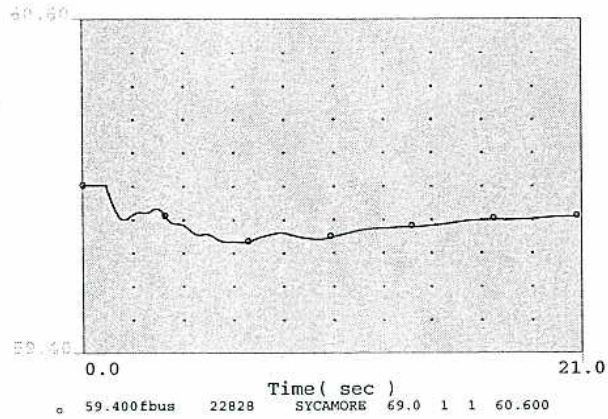
Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)

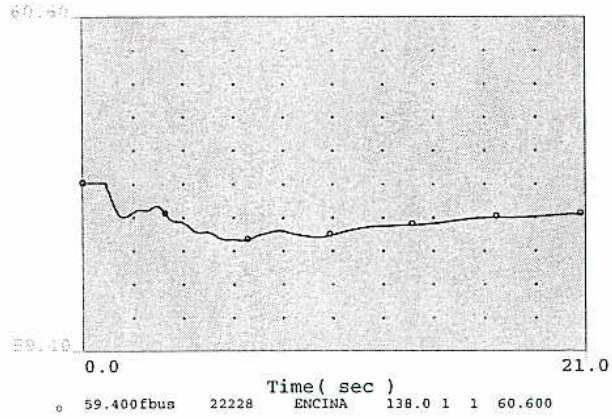




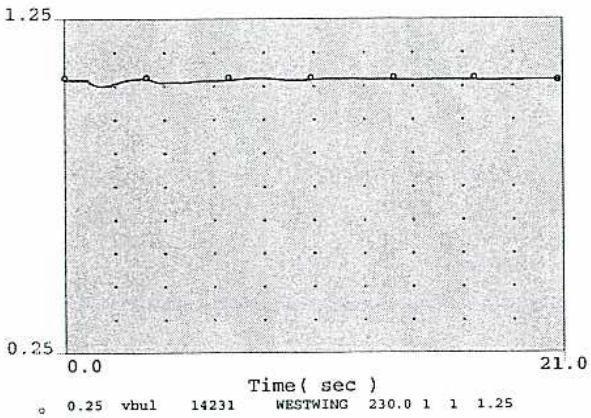


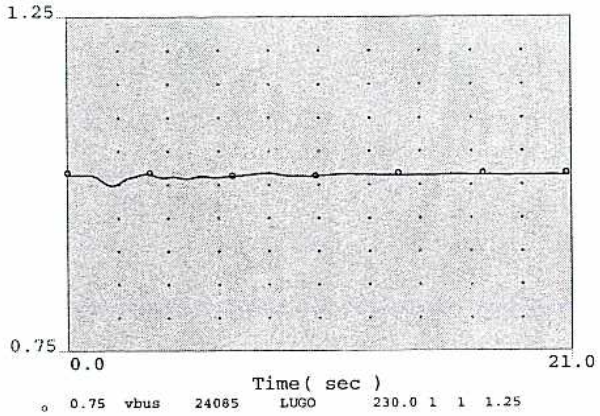


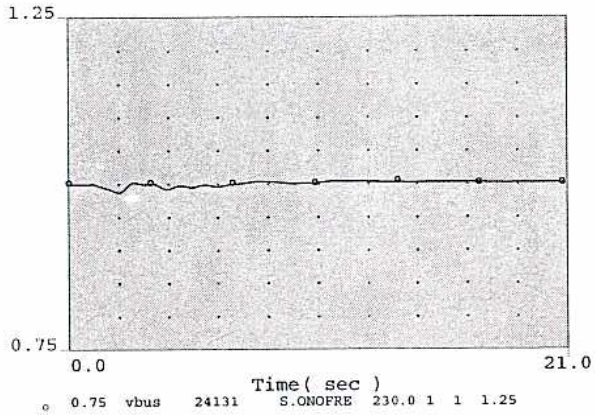


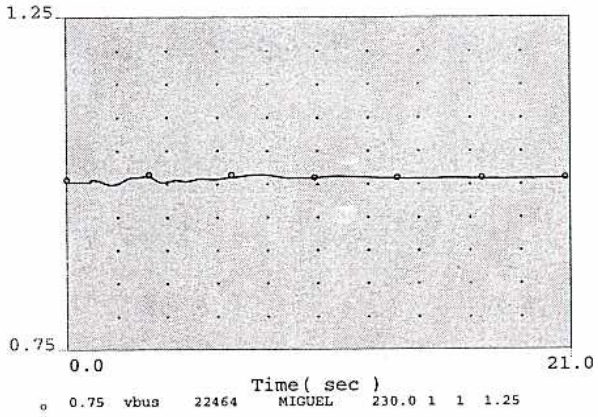


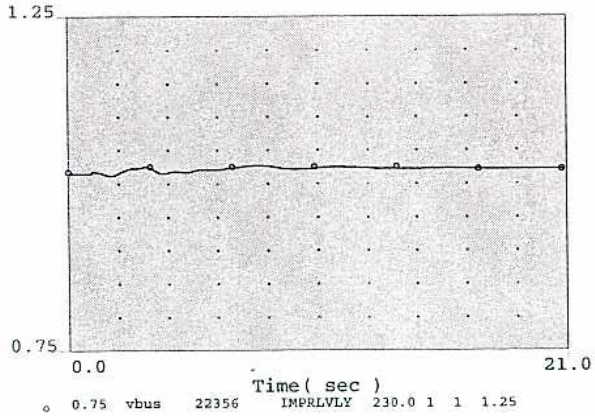
Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)

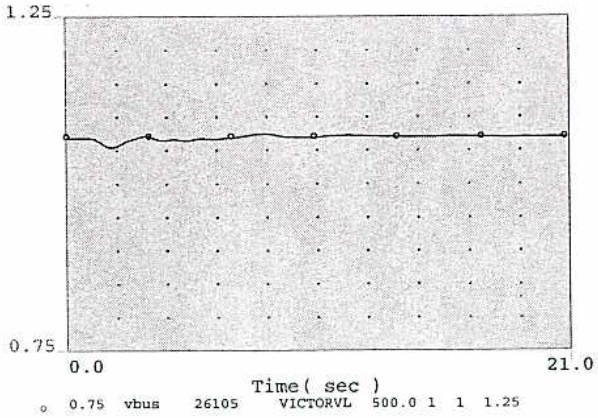




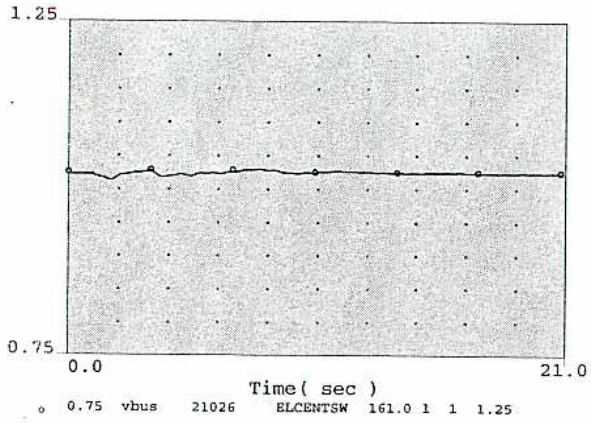


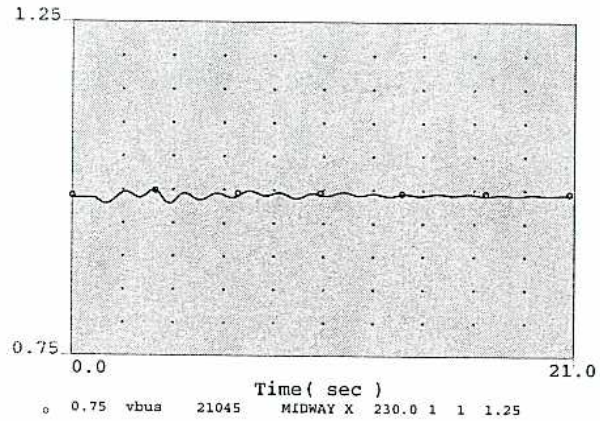


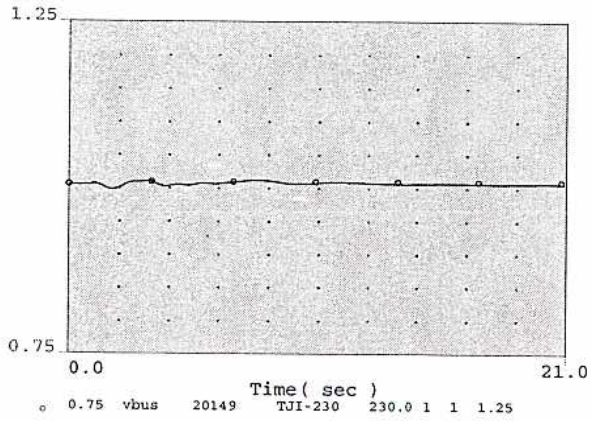


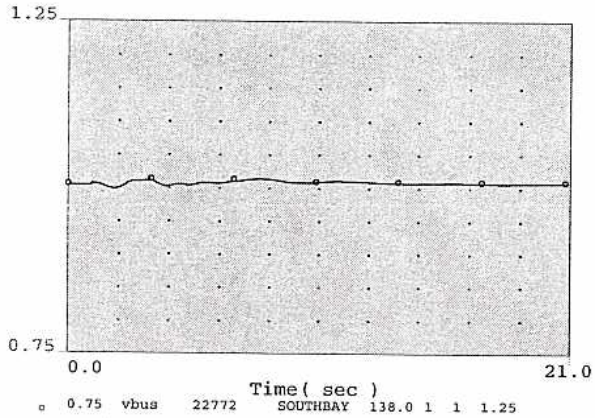


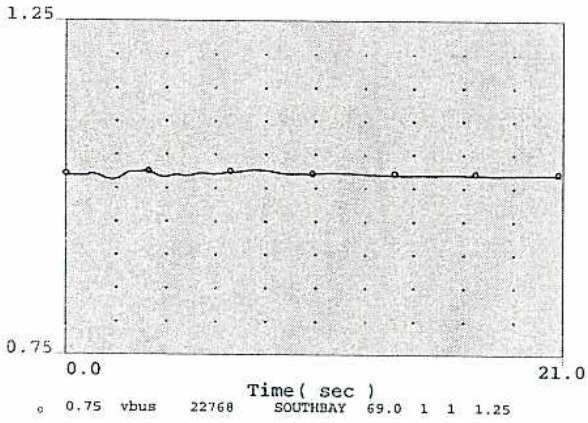
Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)

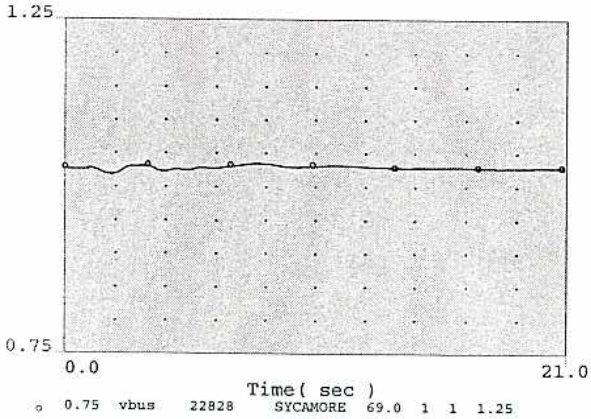




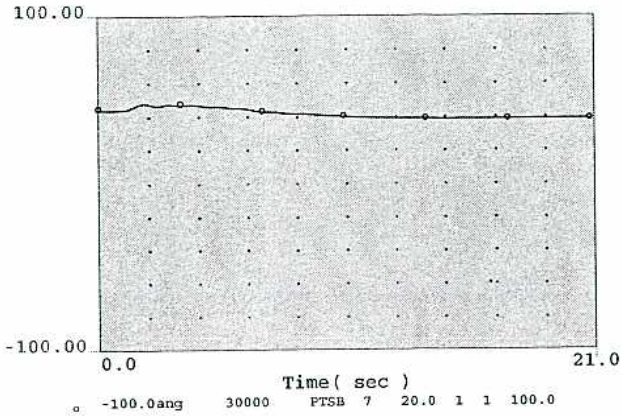


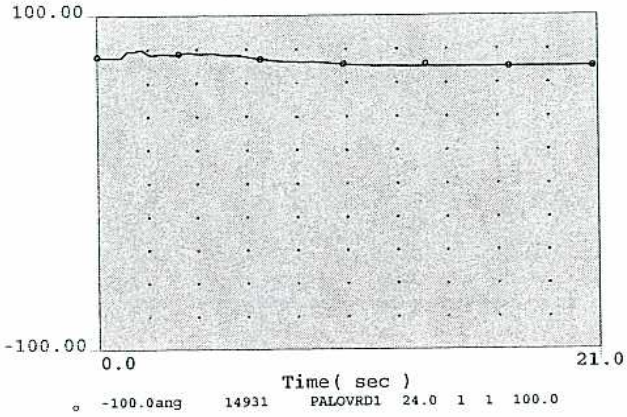


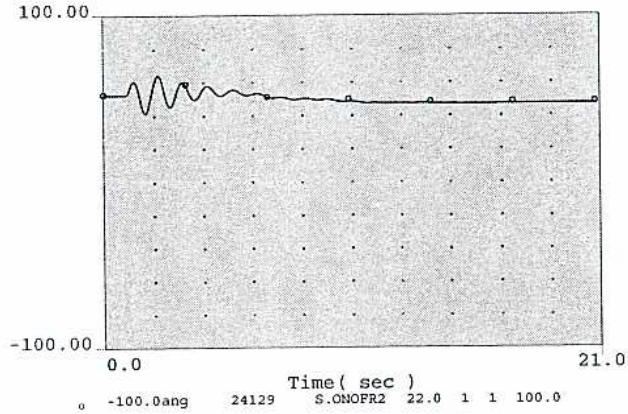


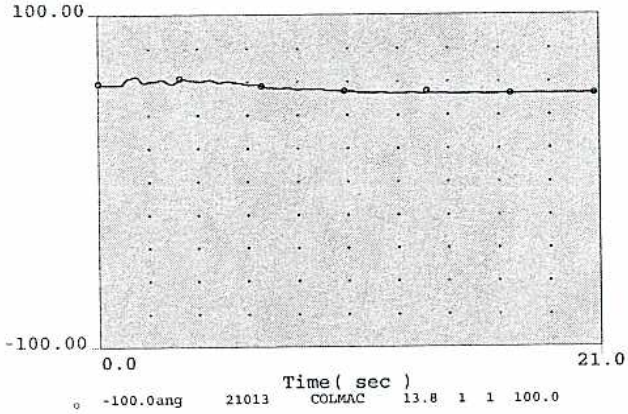


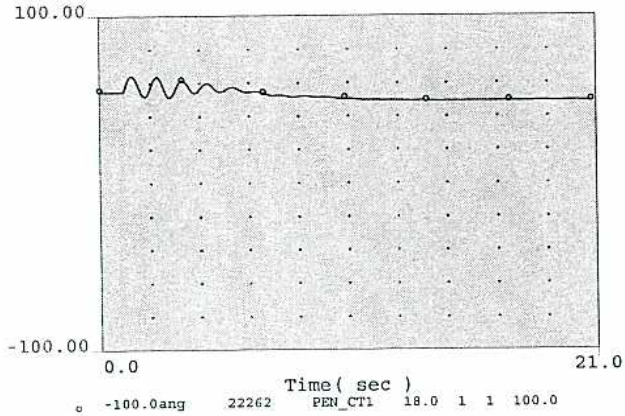
Trip Palo Verde units #1 and #2
Drop AZ load (120 MW)

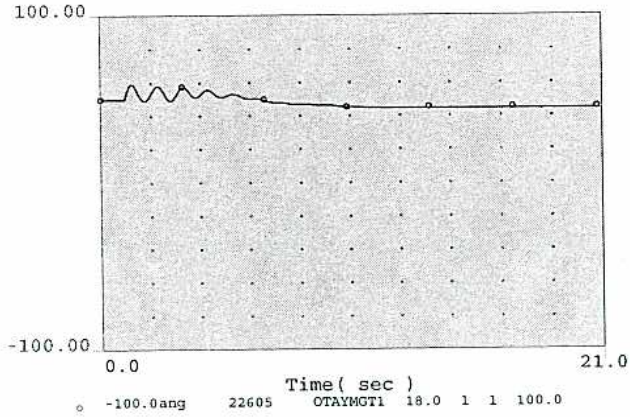












Fault bus at Sycamore

Trip Sycamore - Miguel Tap 230 kV line

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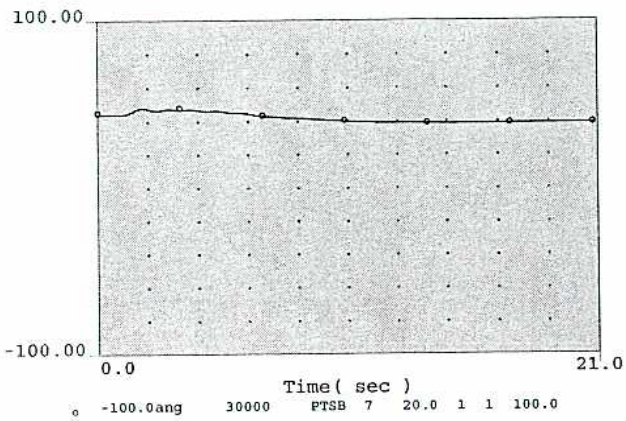
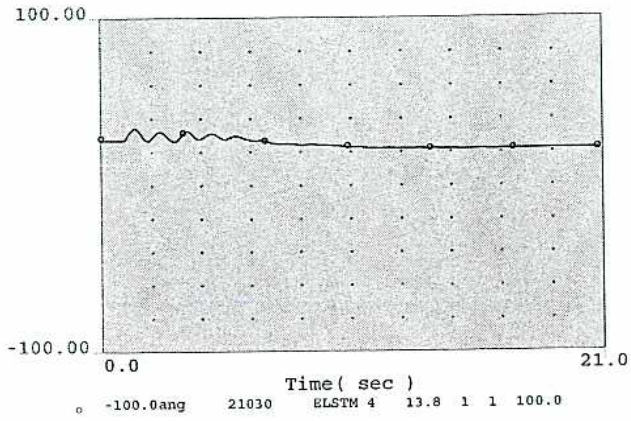
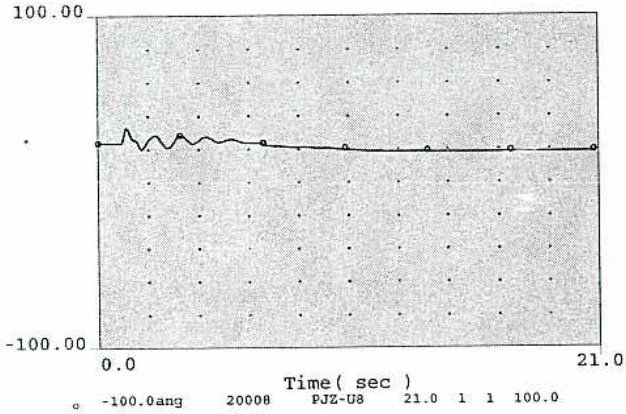
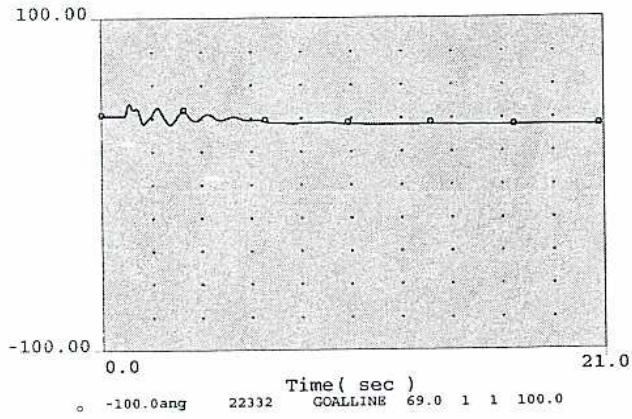
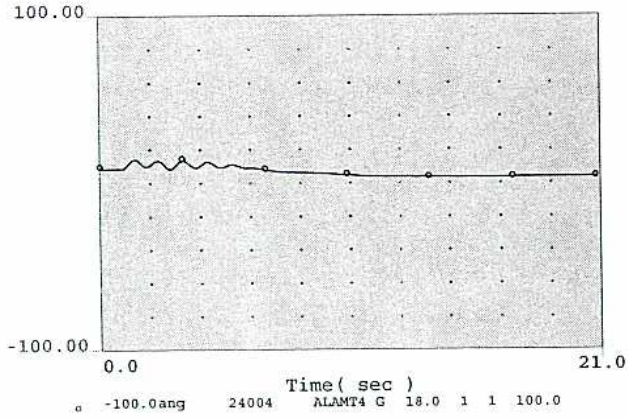
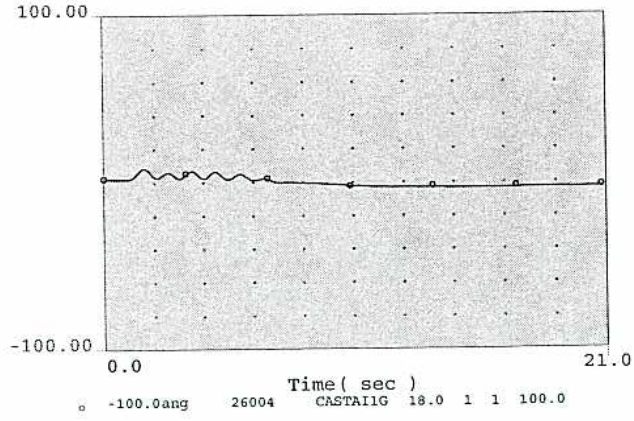






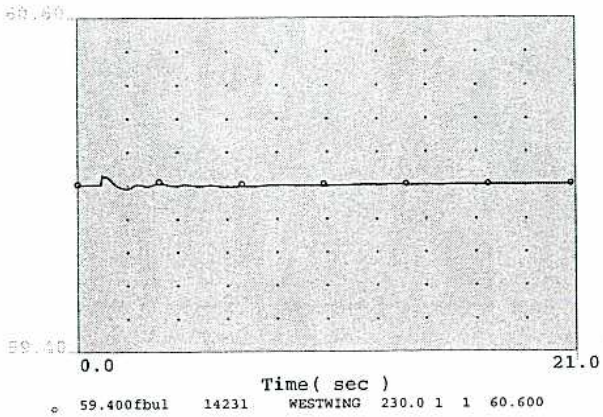




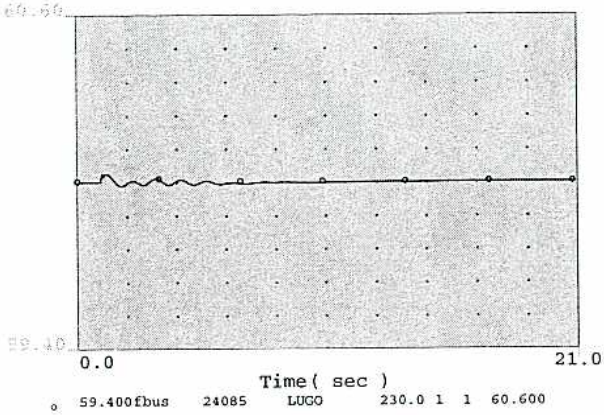


Fault bus at Sycamore

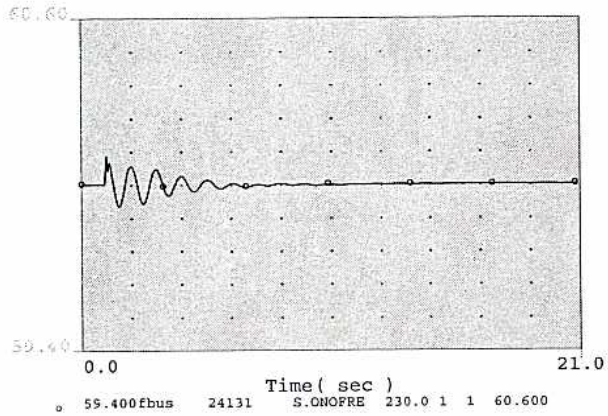
Trip Sycamore - Miguel Tap 230 kV line



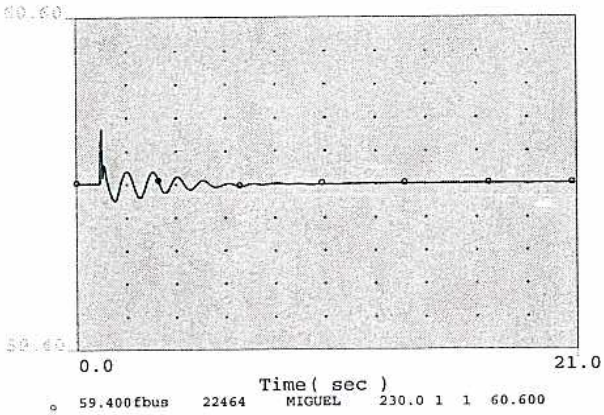
59.400fbul 14231 WESTWING 230.0 1 1 60.600



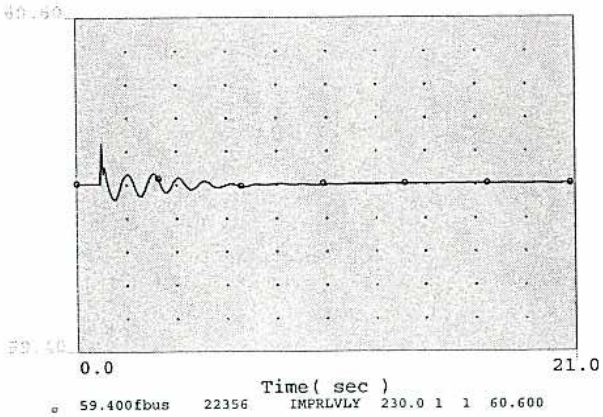
59.400fbus 24085 LUGO 230.0 1 1 60.600



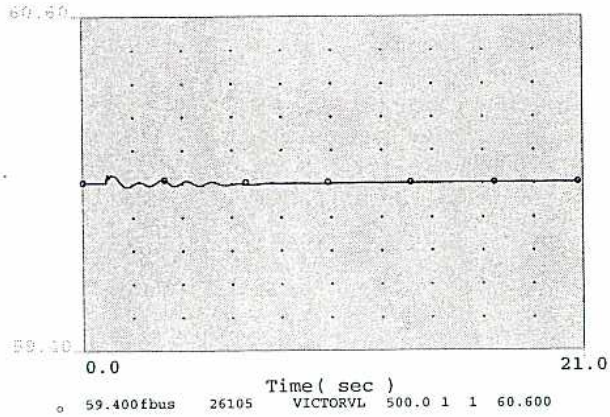
59.400fbus 24131 S.ONOFRE 230.0 1 1 60.600



59.400fbus 22464 MIGUEL 230.0 1 1 60.600



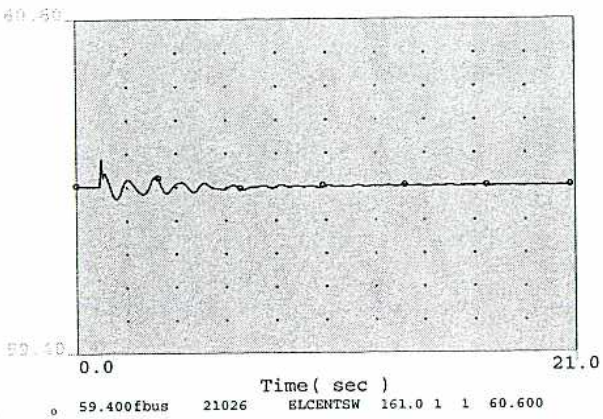
59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600

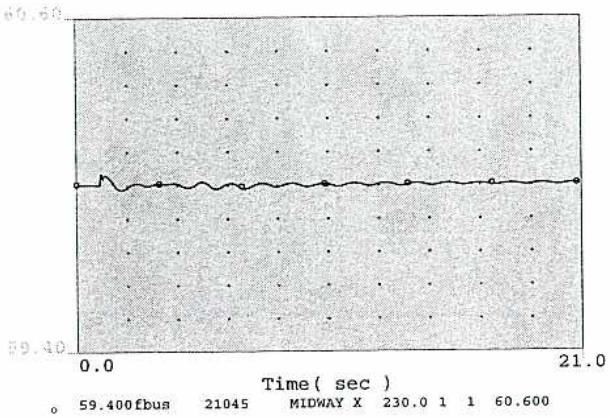


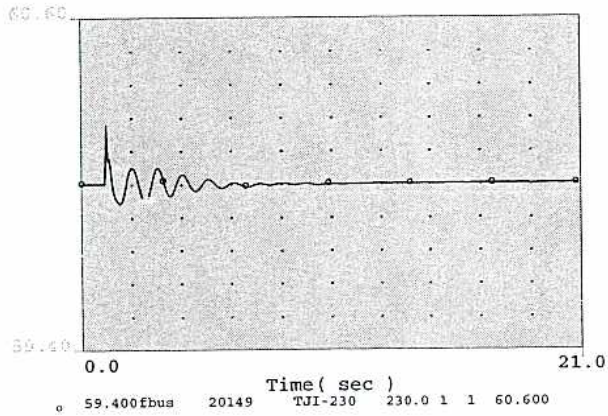
59.400fbus 26105 VICTORVL 500.0 1 1 60.600

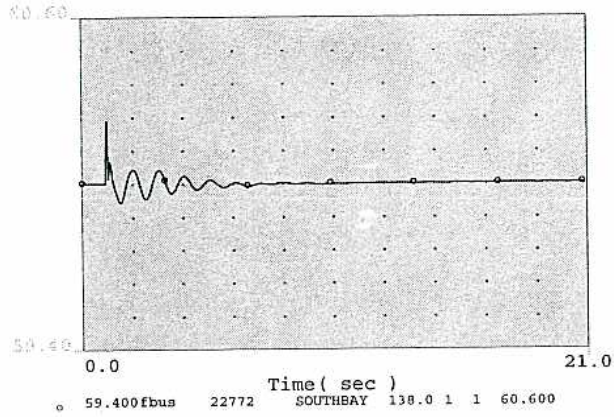
Fault bus at Sycamore

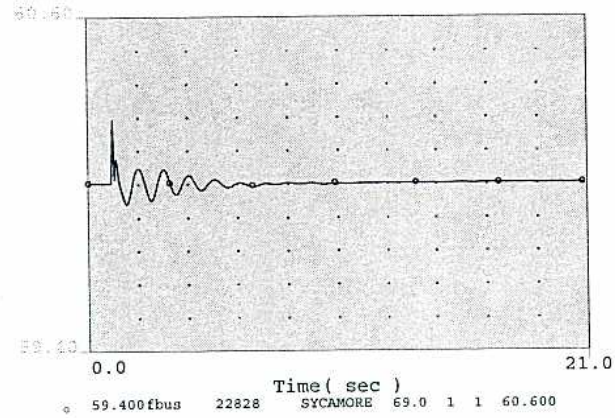
Trip Sycamore - Miguel Tap 230 kV line

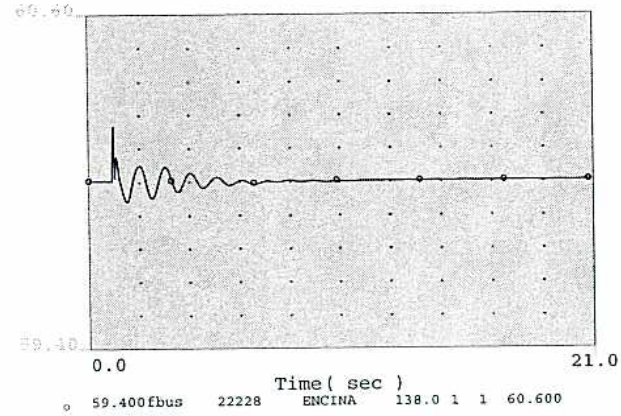






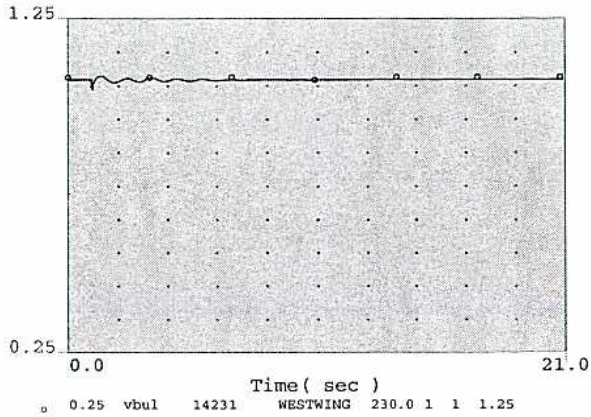


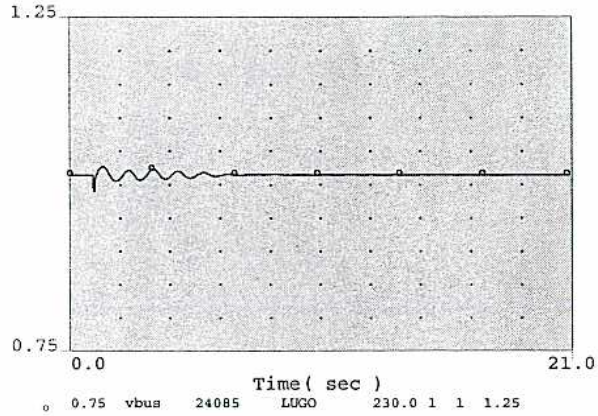


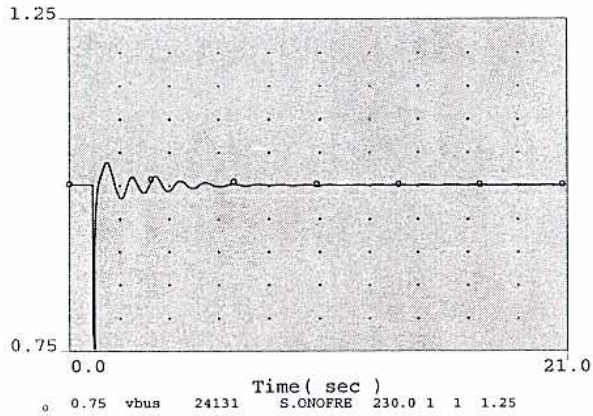


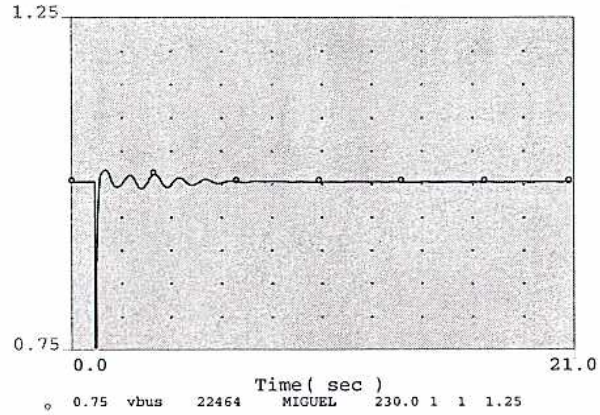
Fault bus at Sycamore

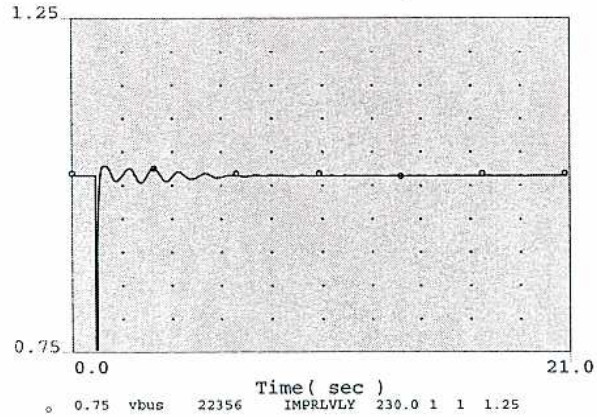
Trip Sycamore - Miguel Tap 230 kV line

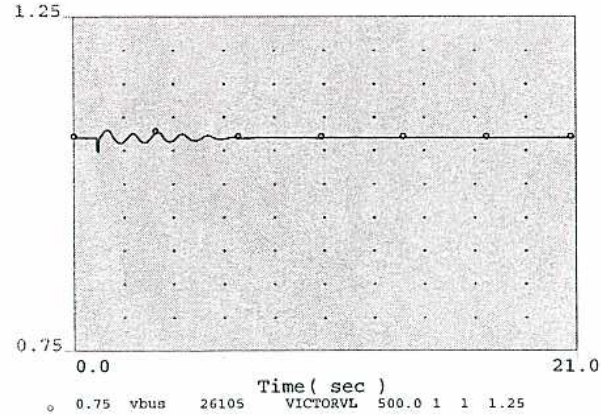






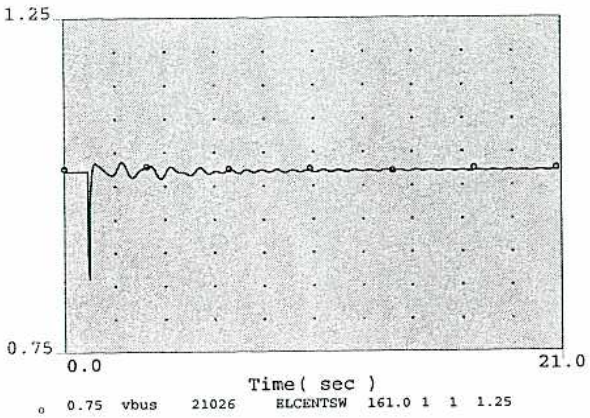




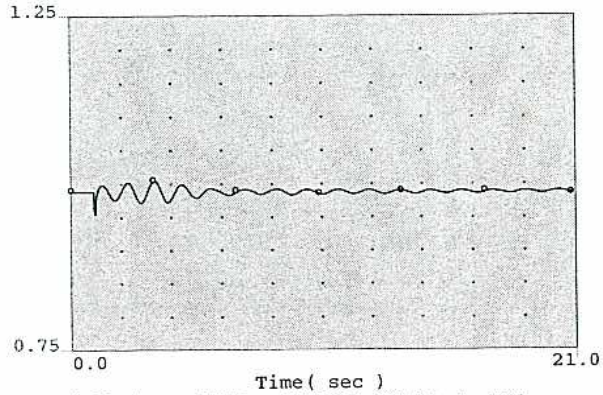


Fault bus at Sycamore

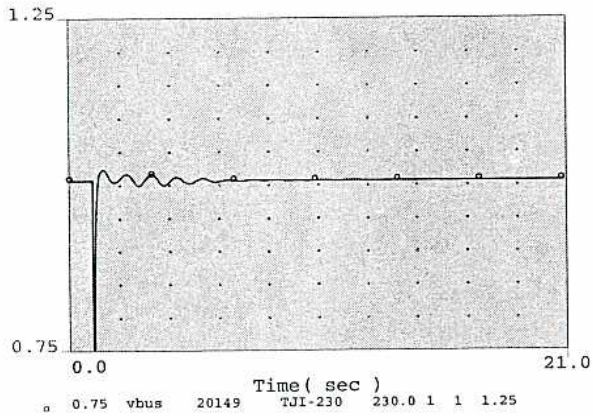
Trip Sycamore - Miguel Tap 230 kV line



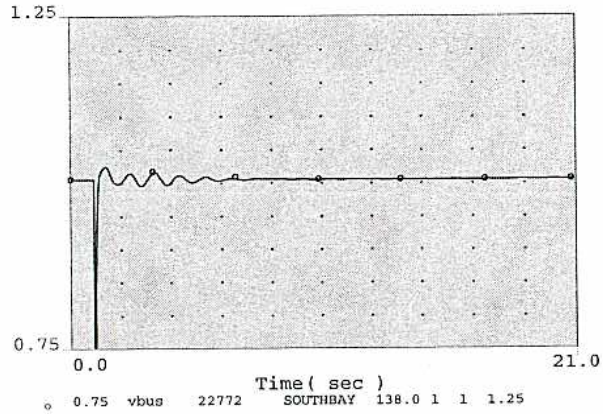
o 0.75 vbus 21026 ELCENTSW 161.0 1 1 1.25



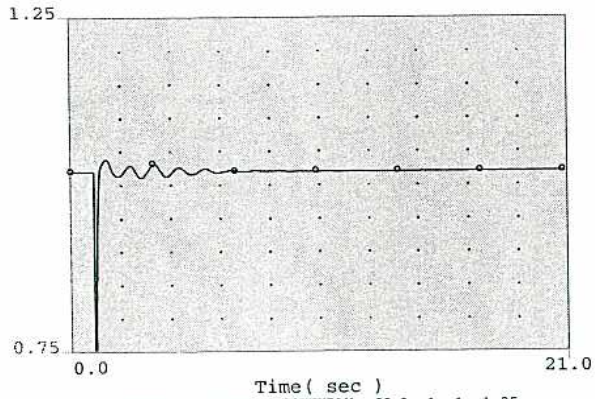
o 0.75 vbus 21045 MIDWAY X 230.0 1 1 1.25



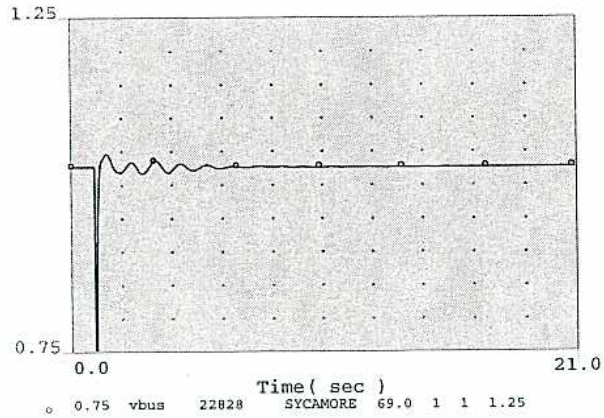
o 0.75 vbus 20149 TJI-230 230.0 1 1 1.25



o 0.75 vbus 22772 SOUTHBAY 138.0 1 1 1.25



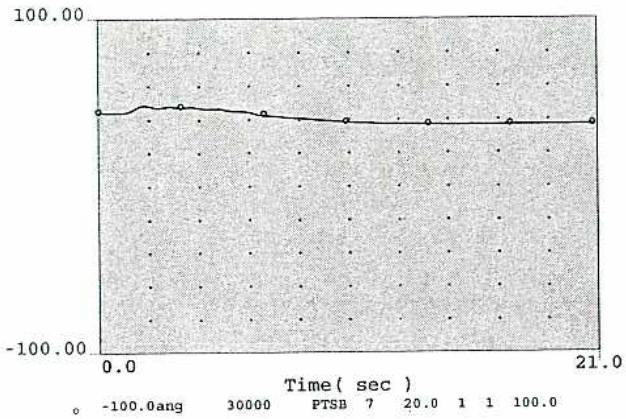
o 0.75 vbus 22768 SOUTHBAY 69.0 1 1 1.25

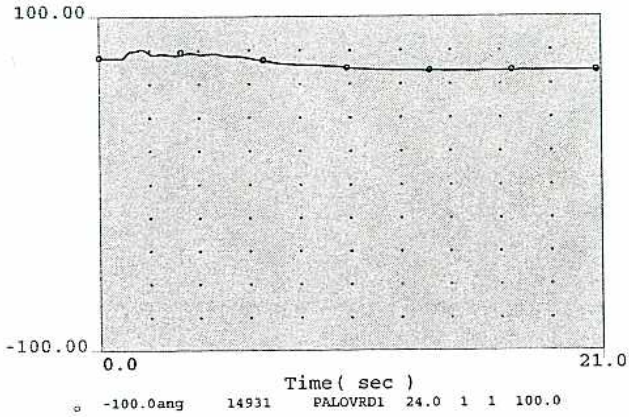


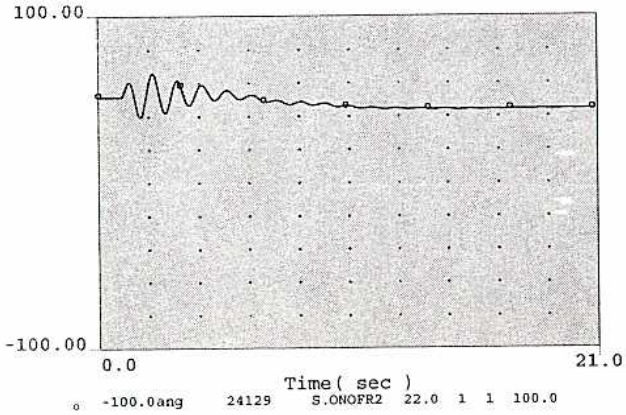
o 0.75 vbus 22828 SYCAMORE 69.0 1 1 1.25

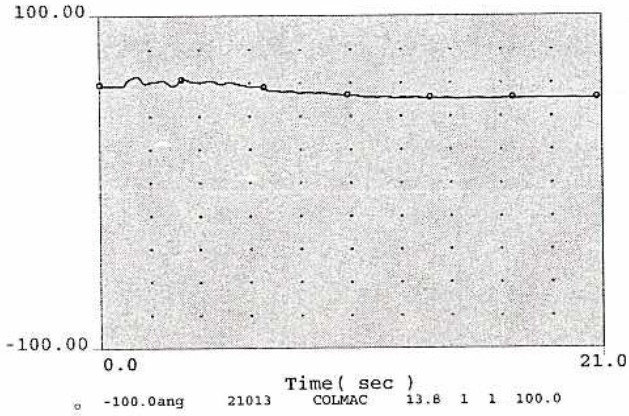
Fault bus at Sycamore

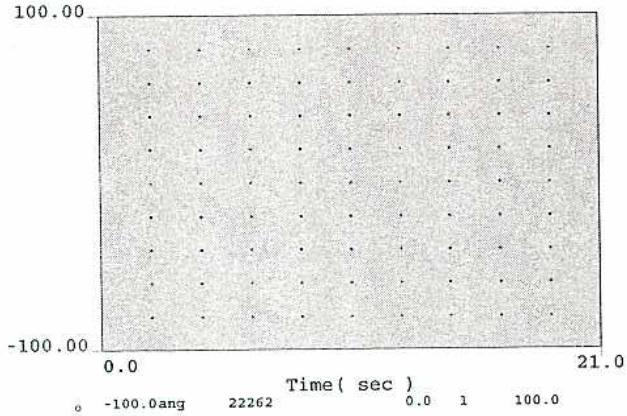
Trip Sycamore - Miguel Tap 230 kV line

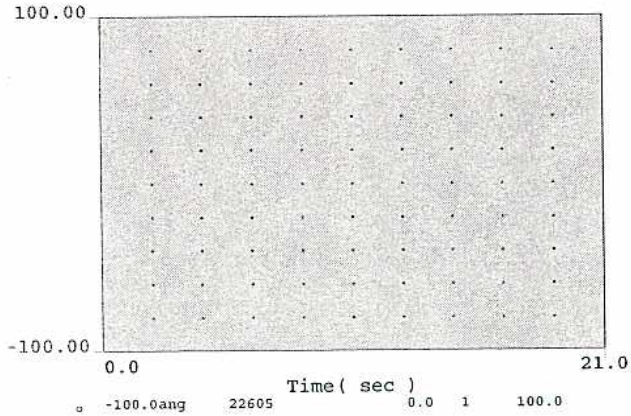




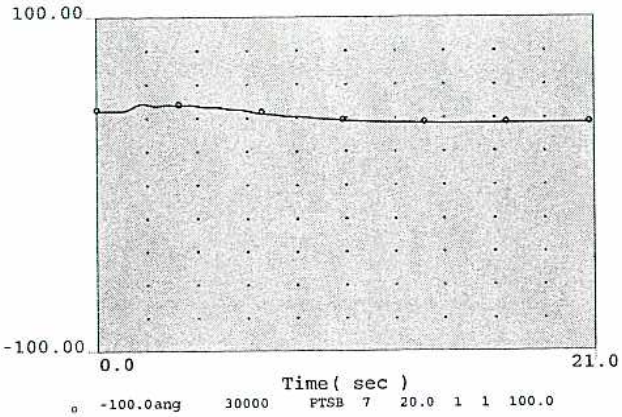


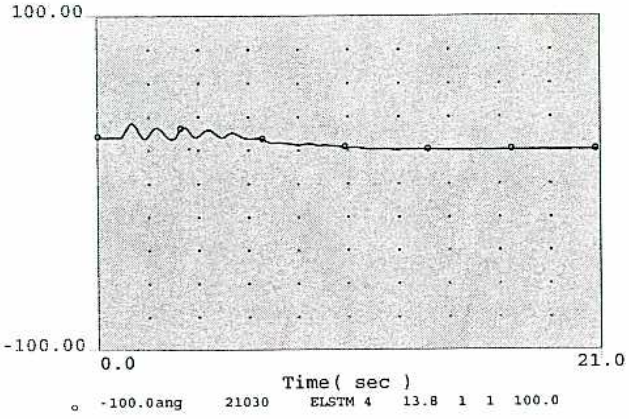


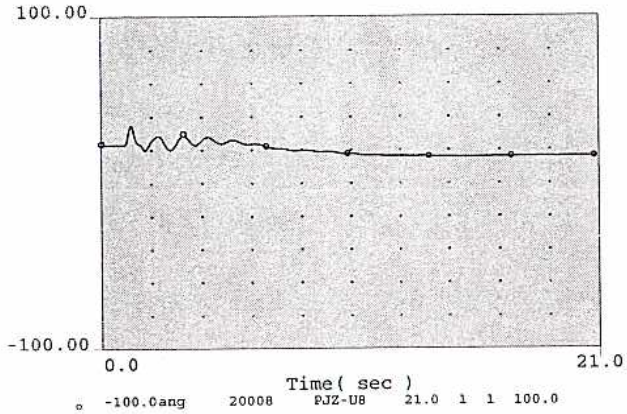


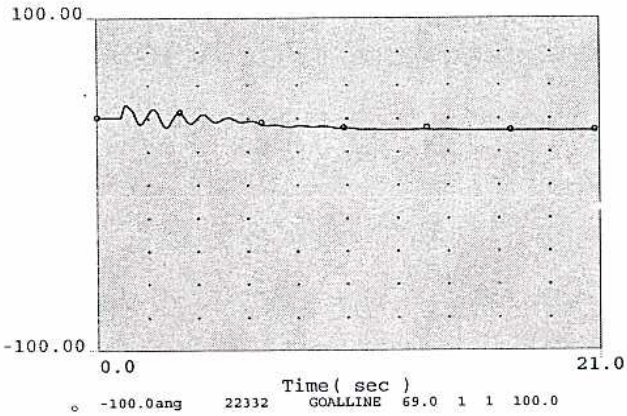


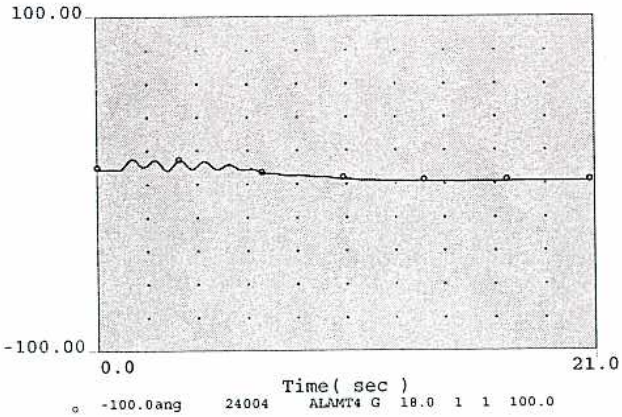
Fault bus at Sycamore
Trip Sycamore - Sxcc #1 230 kV line

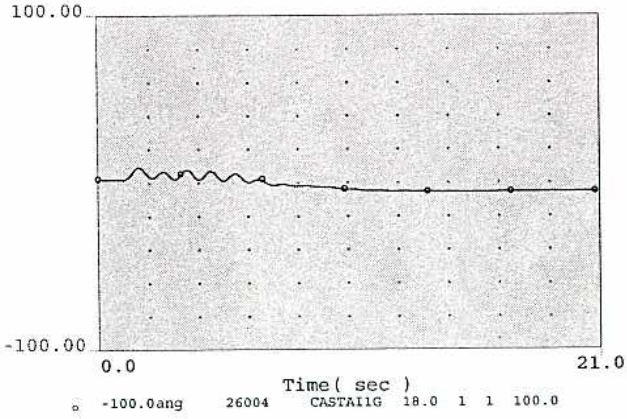






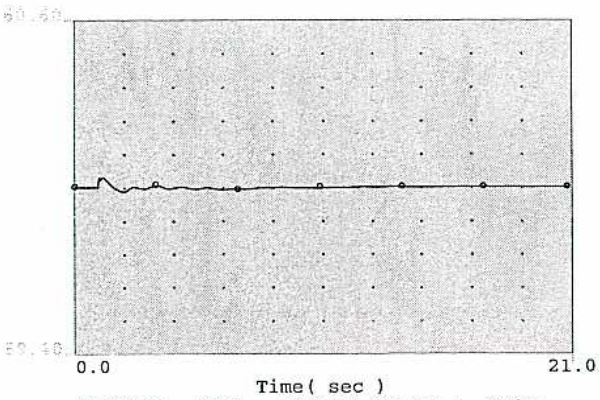




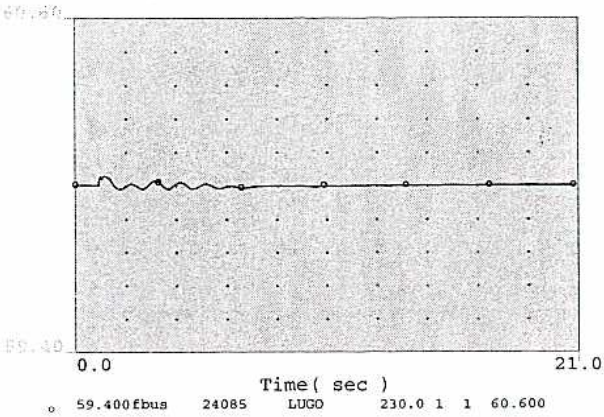


Fault bus at Sycamore

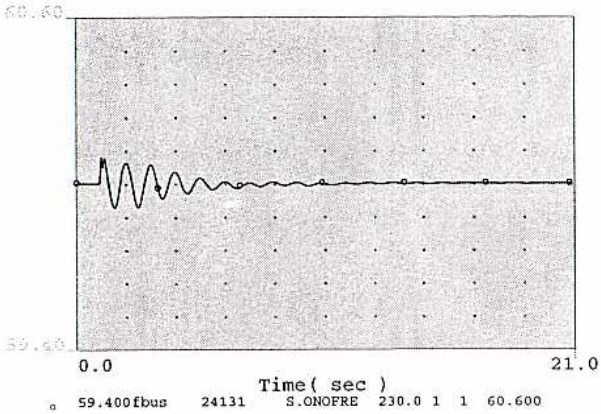
Trip Sycamore - Sxcc #1 230 kV line



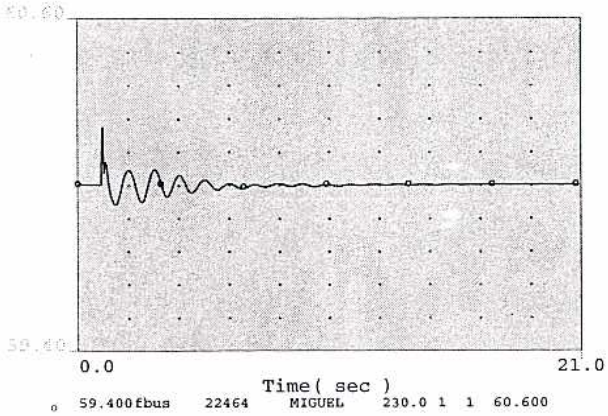
59.400fbul 14231 WESTWING 230.0 1 1 60.600



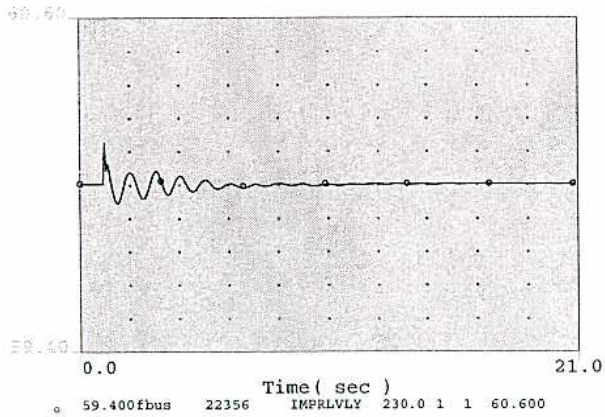
59.400fbus 24085 LUGO 230.0 1 1 60.600



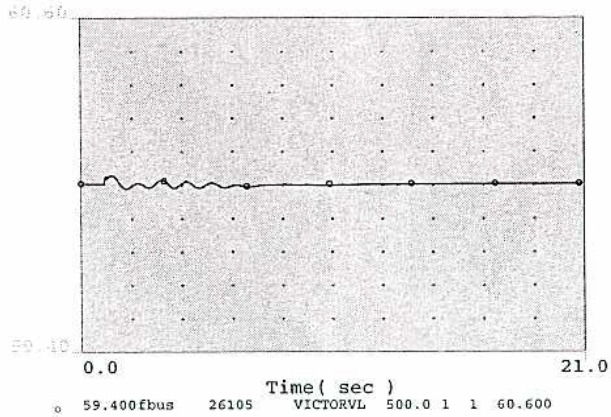
59.400fbus 24131 S.ONOFRE 230.0 1 1 60.600



59.400fbus 22464 MIGUEL 230.0 1 1 60.600



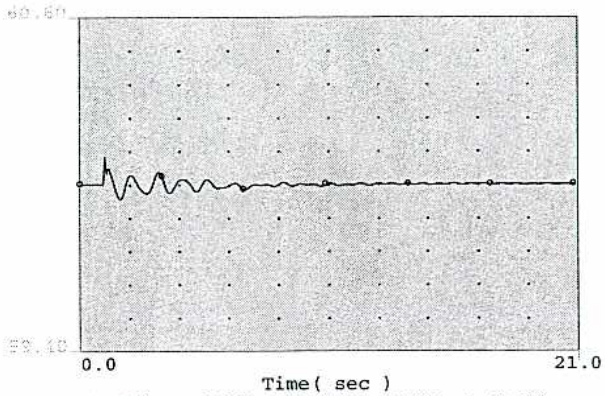
59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600



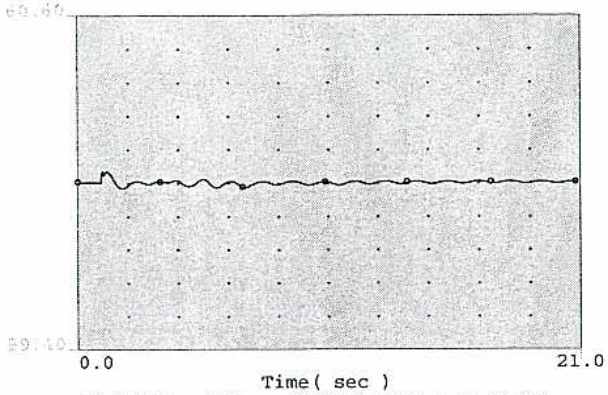
59.400fbus 26105 VICTORVL 500.0 1 1 60.600

Fault bus at Sycamore

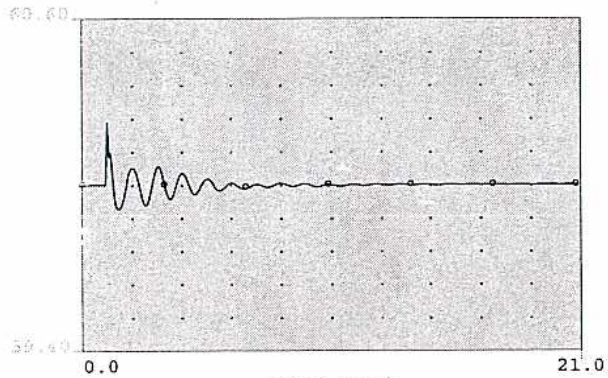
Trip Sycamore - Sxcc #1 230 kV line



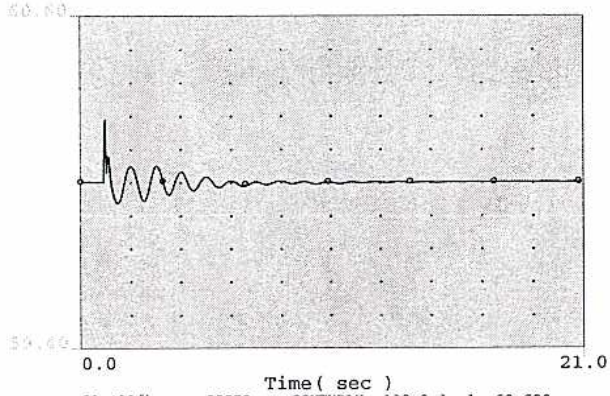
59.400fbus 21026 ELCENTSW 161.0 1 1 60.600



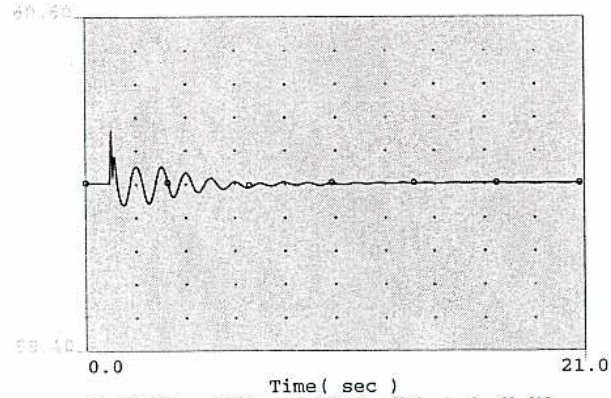
59.400fbus 21045 MIDWAY X 230.0 1 1 60.600



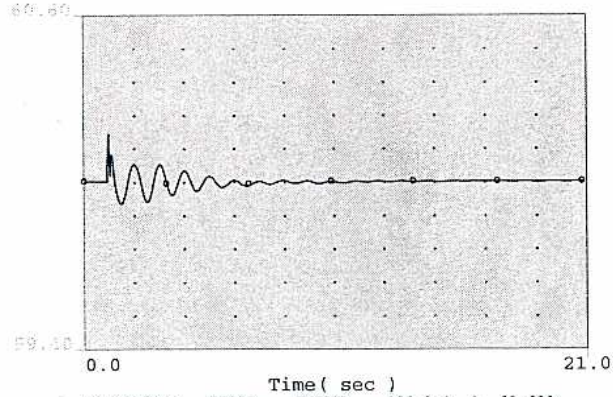
59.400fbus 20149 TJI-230 230.0 1 1 60.600



59.400fbus 22772 SOUTHBAY 138.0 1 1 60.600



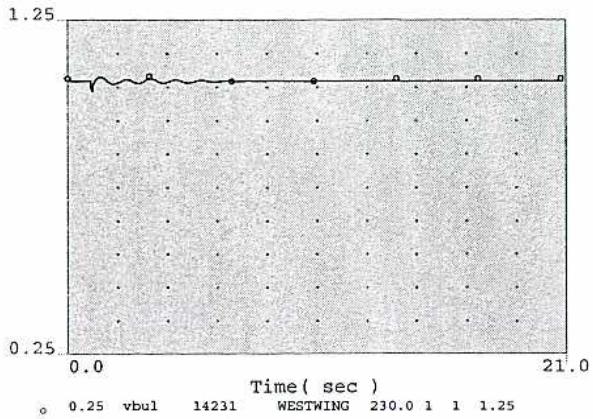
59.400fbus 22828 SYCAMORE 69.0 1 1 60.600

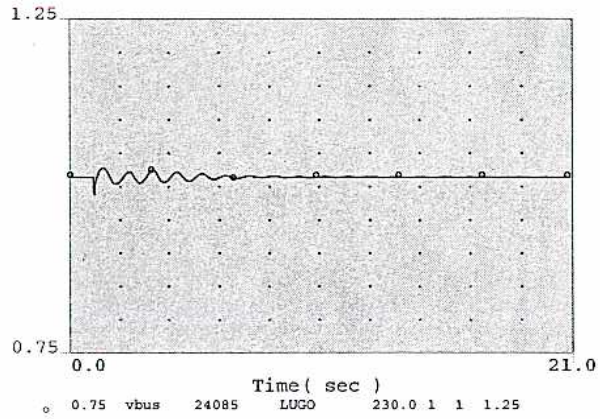


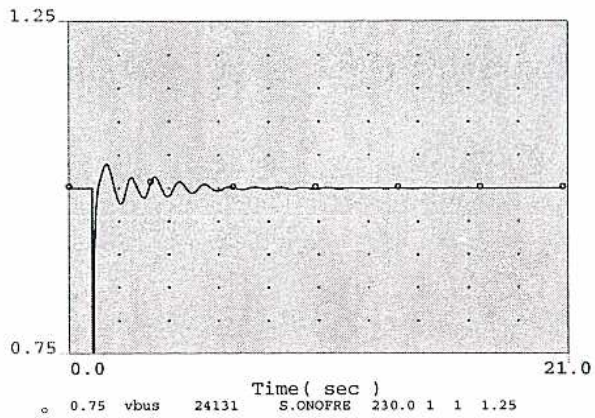
59.400fbus 22228 ENCINA 138.0 1 1 60.600

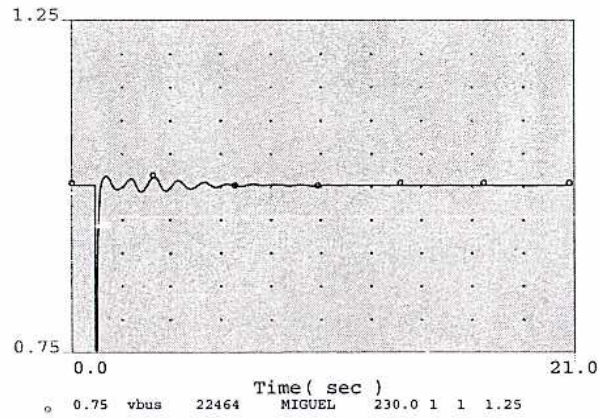
Fault bus at Sycamore

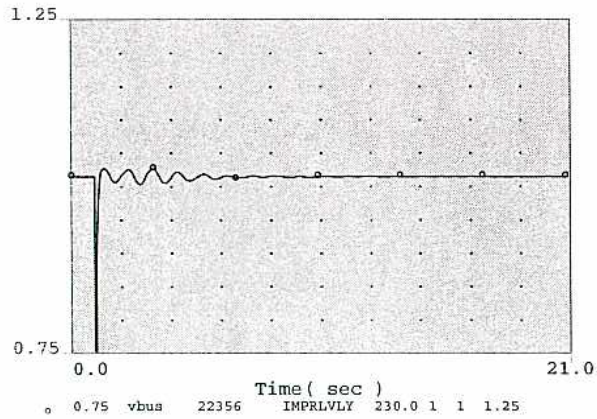
Trip Sycamore - Sxcc #1 230 kV line

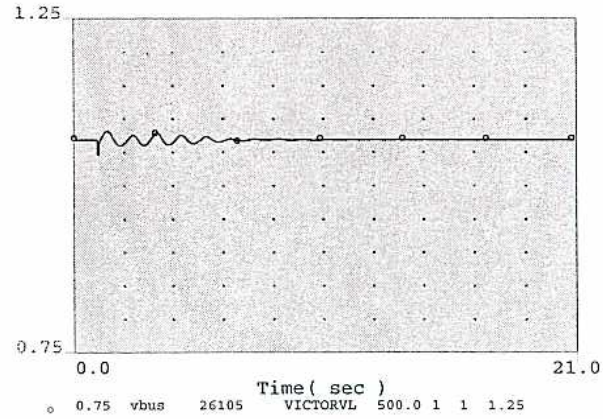






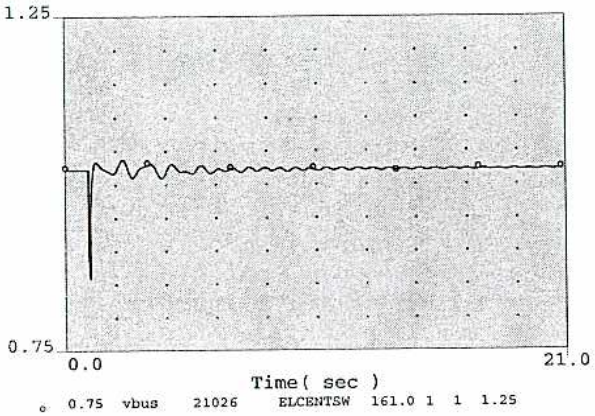


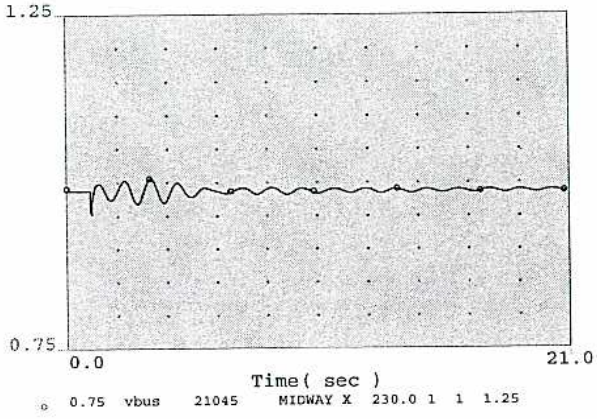


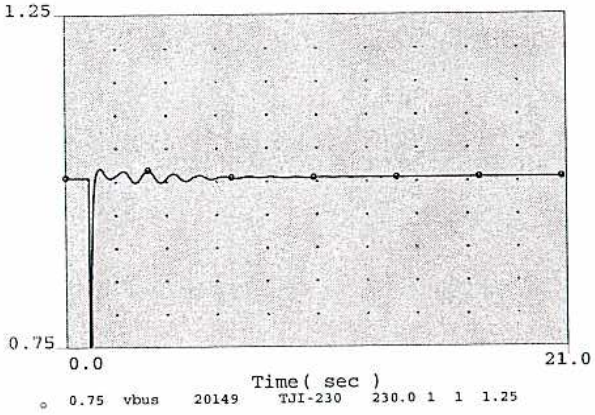


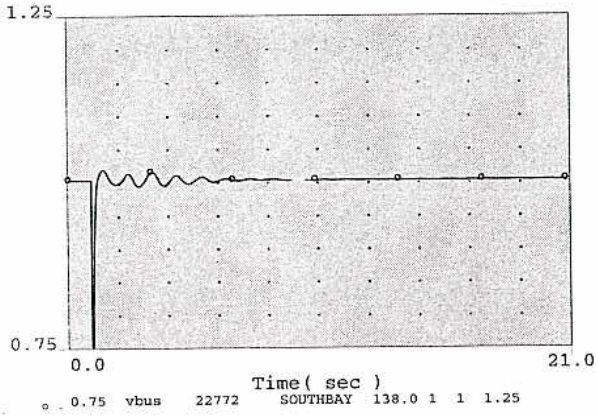
Fault bus at Sycamore

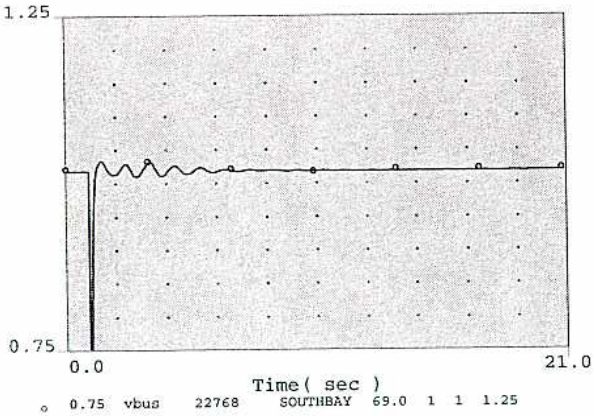
Trip Sycamore - Sxcc #1 230 kV line

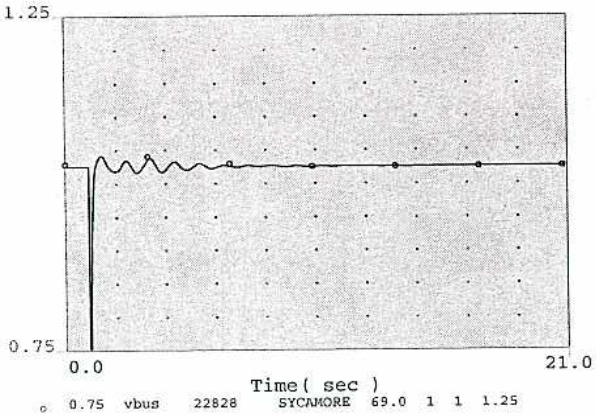






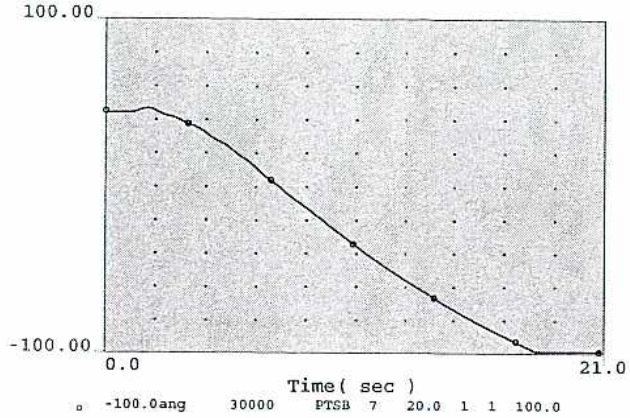


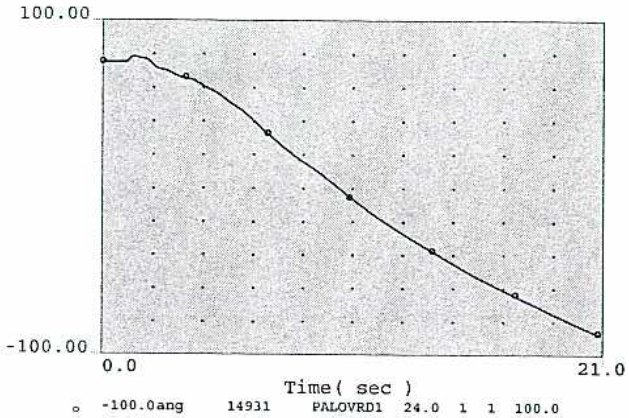


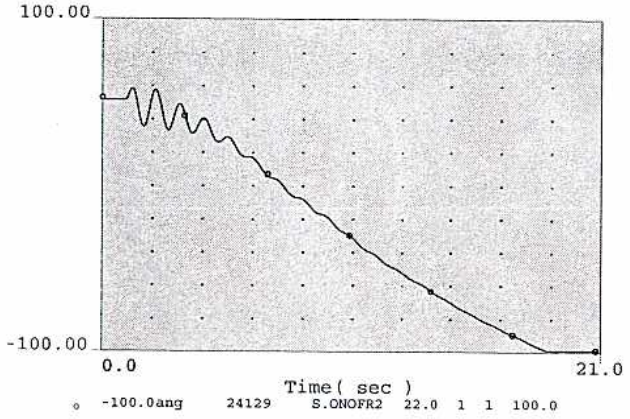


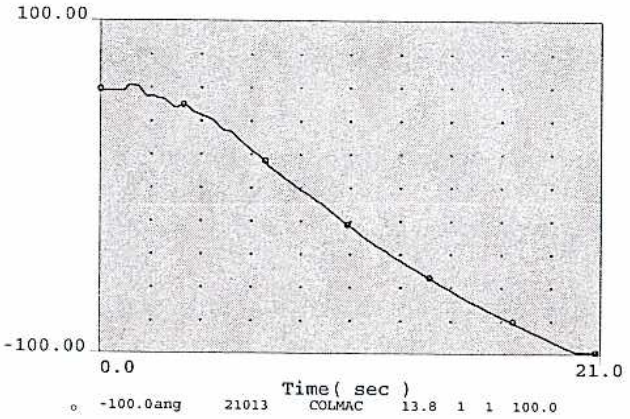
Fault bus at Sycamore

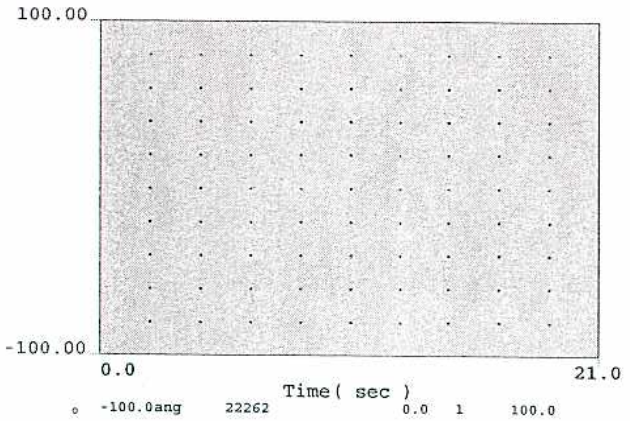
Trip Sycamore - Sxcc #1 230 kV line

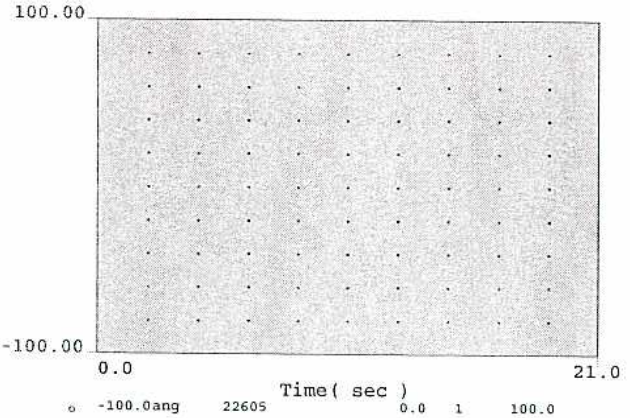




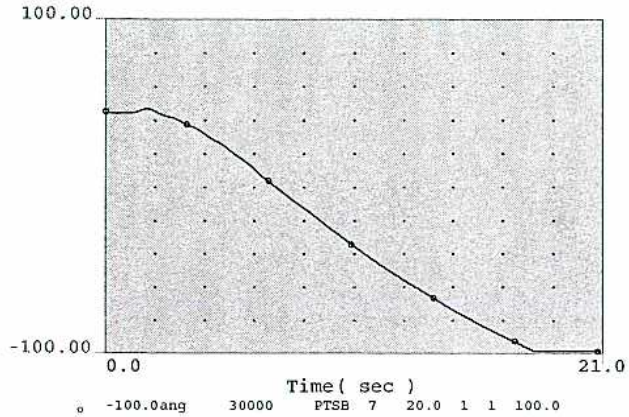


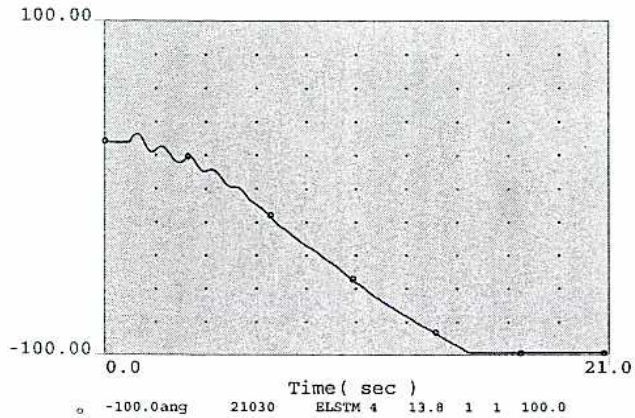


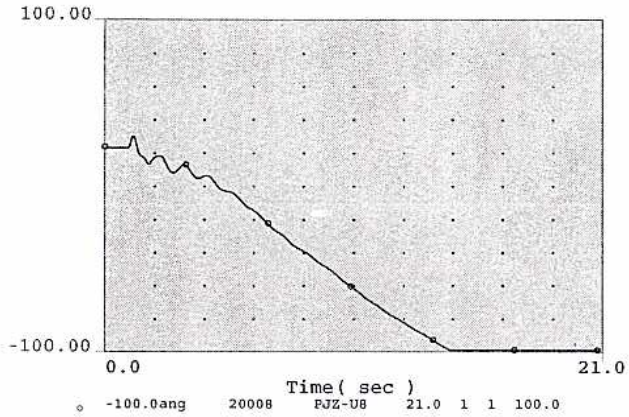


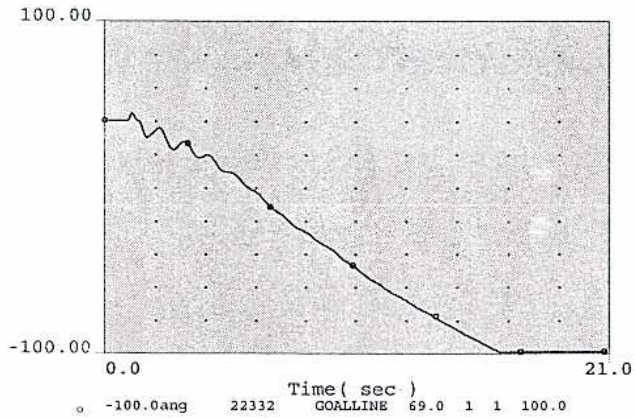


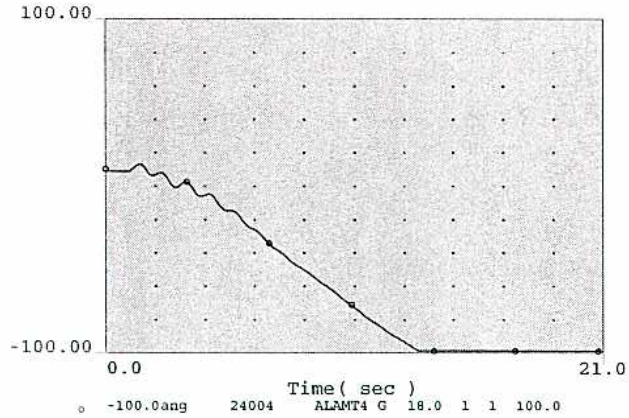
Fault bus at SXCC
Trip SXCC UNITS 2/3

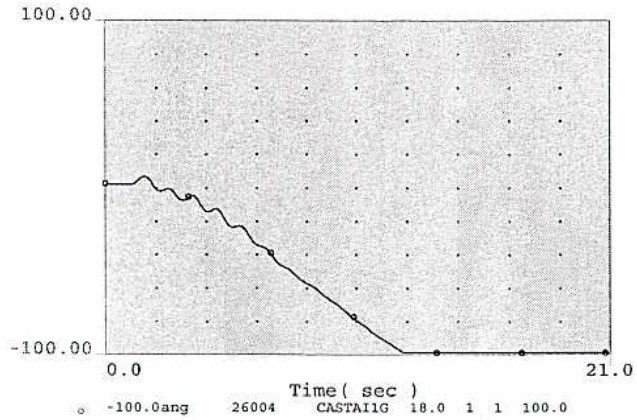




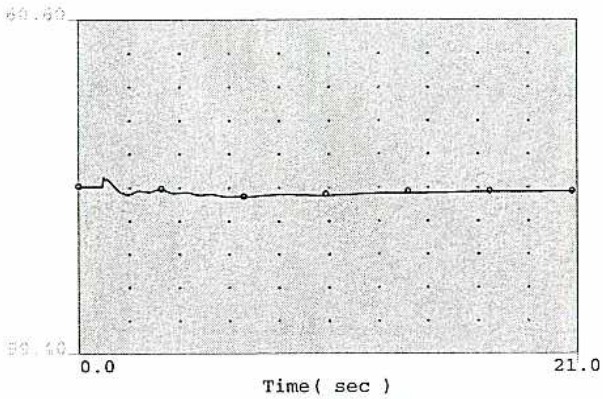




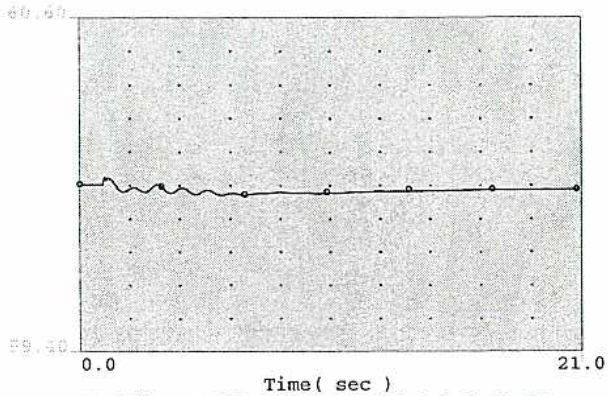




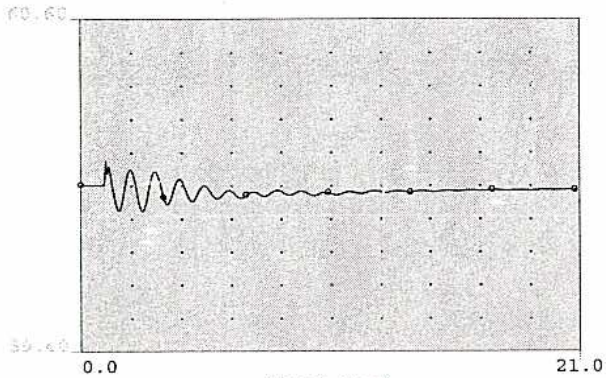
Fault bus at SXCC
Trip SXCC UNITS 2/3



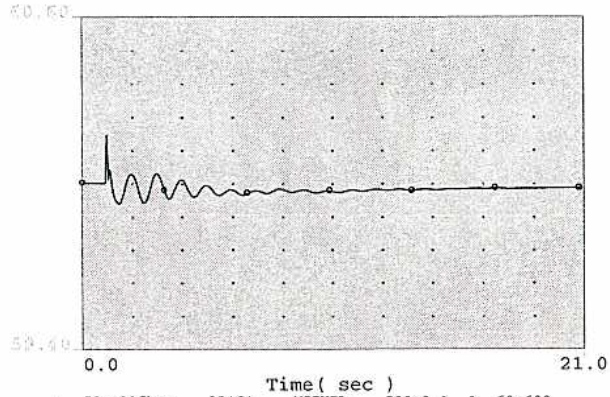
59.400fbul 14231 WESTWING 230.0 1 1 60.600



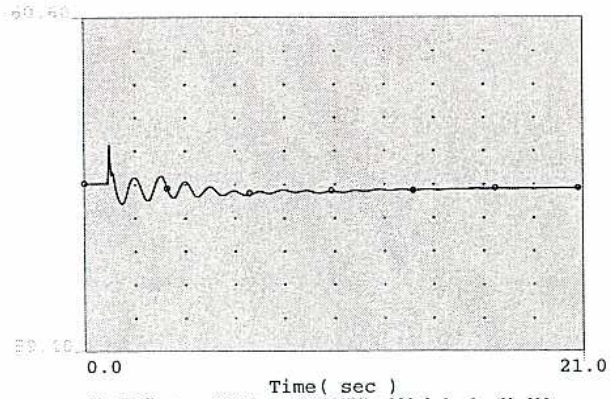
59.400fbus 24085 LUGO 230.0 1 1 60.600



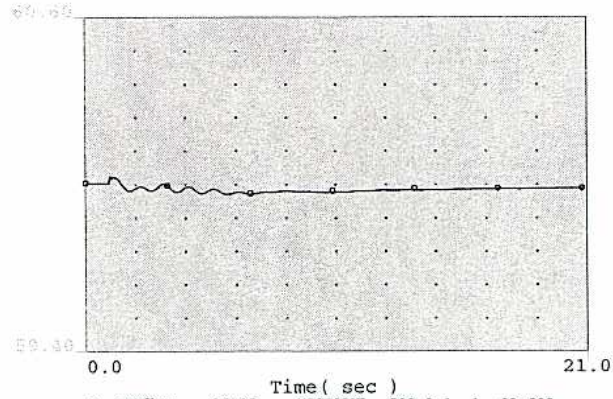
59.400fbus 24131 S.ONOFRE 230.0 1 1 60.600



59.400fbus 22464 MIGUEL 230.0 1 1 60.600

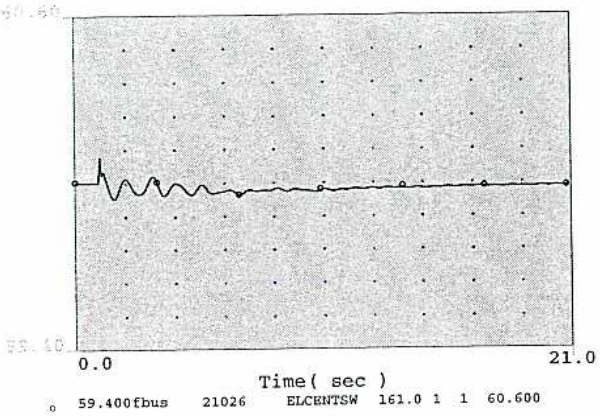


59.400fbus 22356 IMPRLVLY 230.0 1 1 60.600

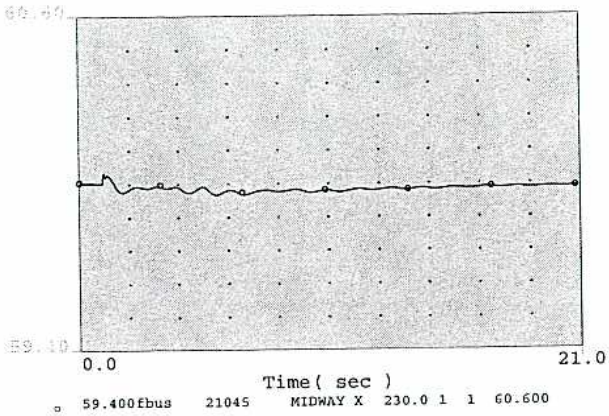


59.400fbus 26105 VICTORVL 500.0 1 1 60.600

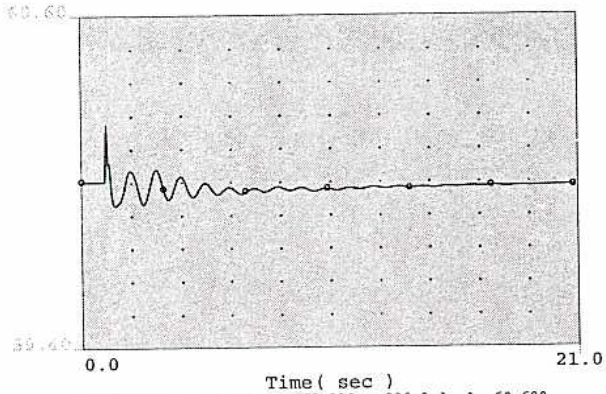
Fault bus at SXCC
Trip SXCC UNITS 2/3



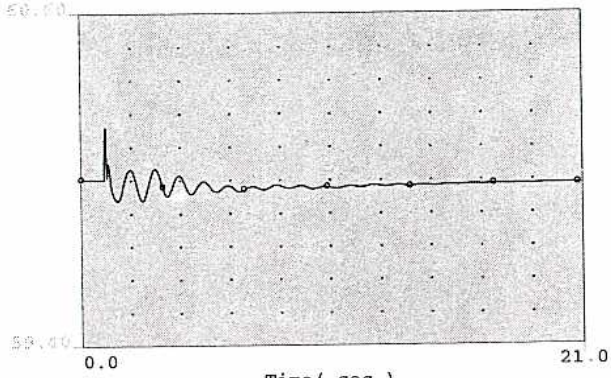
59.400fbus 21026 ELCENTSW 161.0 1 1 60.600



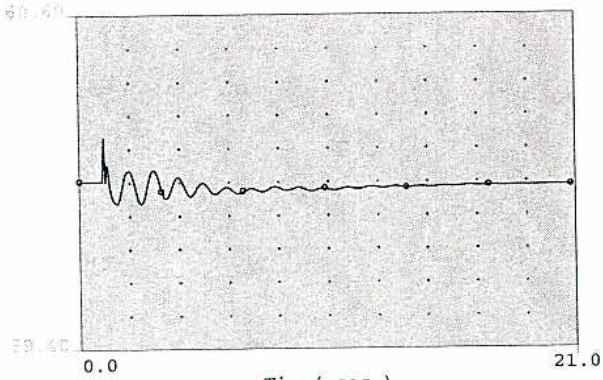
59.400fbus 21045 MIDWAY X 230.0 1 1 60.600



59.400fbus 20149 TJI-230 230.0 1 1 60.600



59.400fbus 22772 SOUTHBAY 138.0 1 1 60.600



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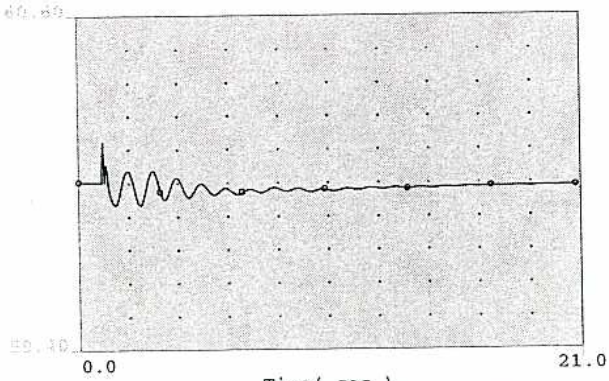

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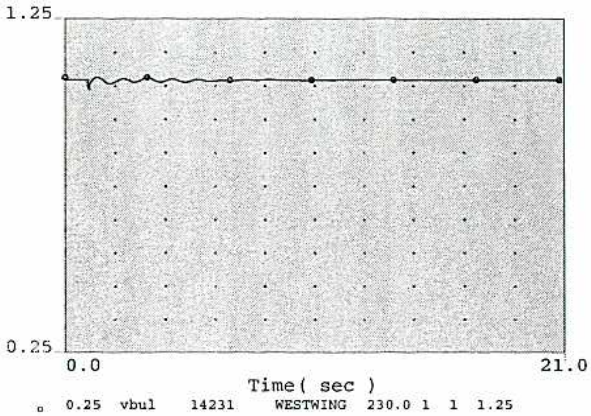
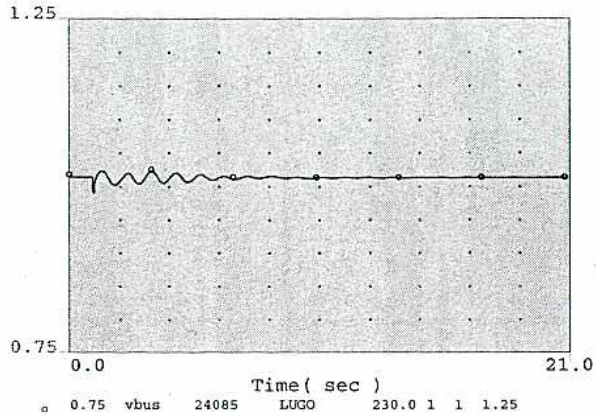
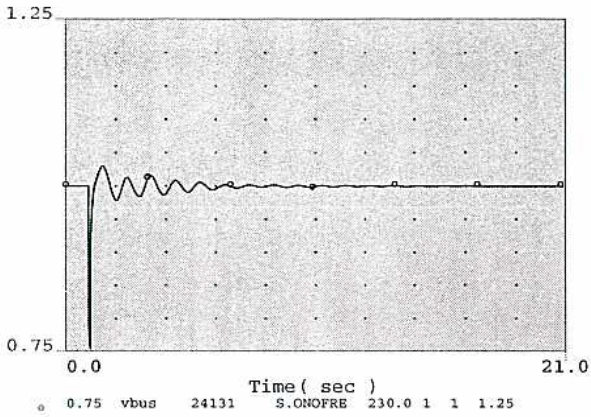
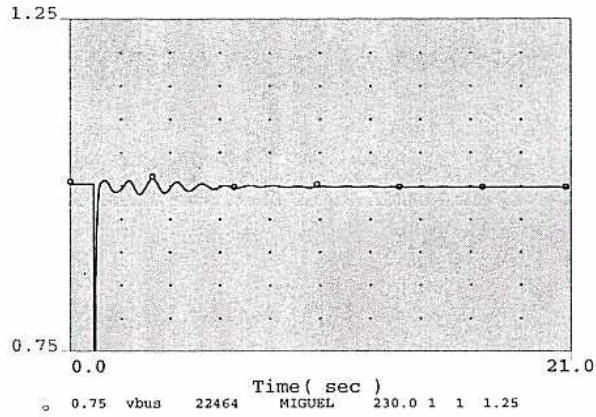
Fault bus at SXCC

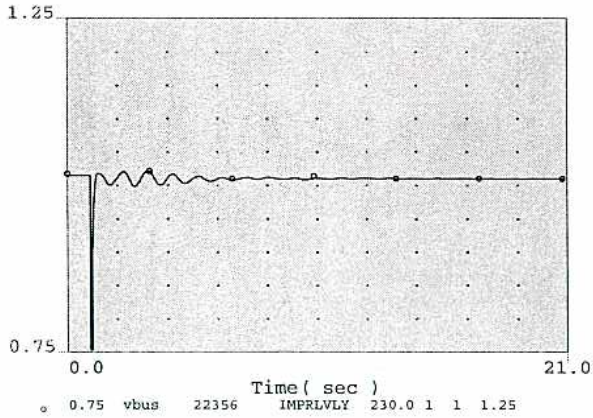
Trip SXCC UNITS 2/3

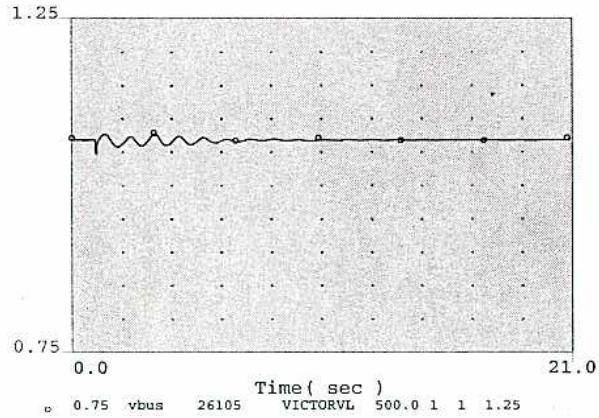




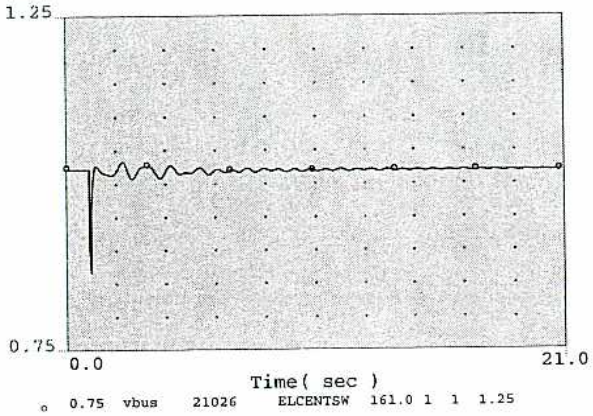


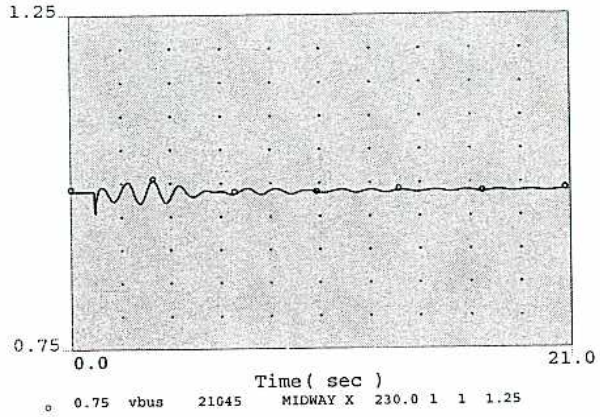


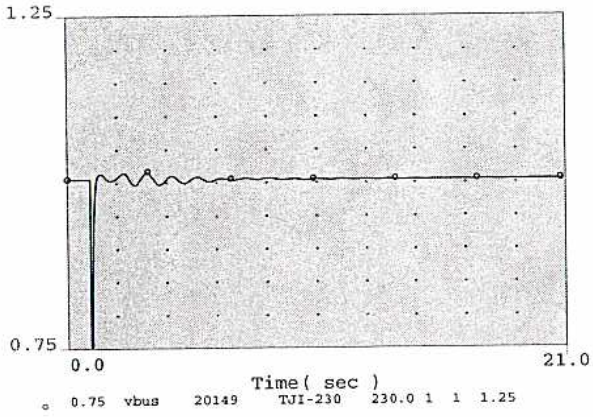


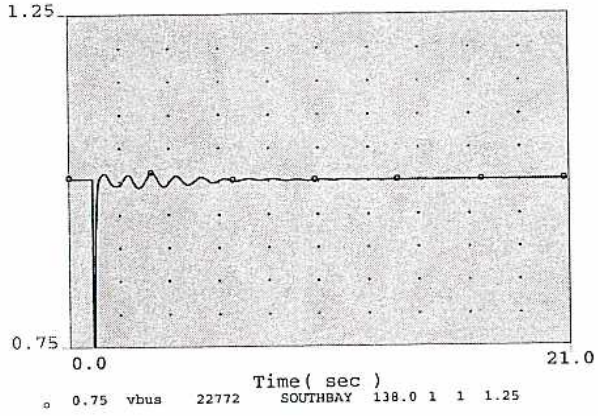


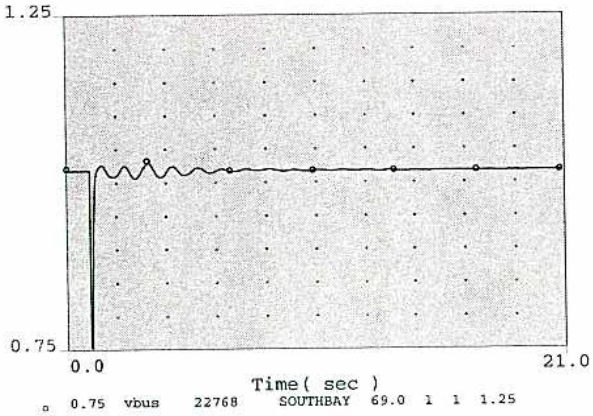
Fault bus at SXCC
Trip SXCC UNITS 2/3

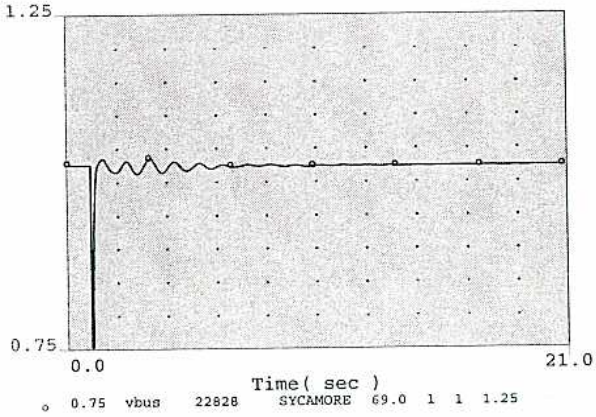












Fault bus at SXCC
Trip SXCC UNITS 2/3

Appendix L

Post Transient/Voltage Stability Results

Appendix L.1

Governor Power Flow Test Summary

Table ??: Summary: Post Transient/Voltage Stability Governor Power Flow Results

Case	Case Type	Cont. Nr.	Contingency Name	GOVPF Solve?
case_a	Pre-BLI	1	TL50003 IV-CN 500 kV SLO	Yes
	Pre-BLI	2	TL50002 NG-IV 500 kV SLO	Yes
	Pre-BLI	3	TL50001 IV-ML W/ SPS 6.1	Yes
	Pre-BLI	3A	TL50001 IV-ML W/ SPS 6.2a, trip TL23050	Yes
	Pre-BLI	3B	TL50001 IV-ML W/ SPS 6.2b, trip TL23040	Yes
	Pre-BLI	4	PEN G-1 (CC TOTAL PLANT)	Yes
	Pre-BLI	5	ENPEX G-1 (CC TOTAL PLANT)	N/A
	Pre-BLI	6	G-2 SONGS DUO	Yes
	Pre-BLI	7	ML-SX + OMGP-ML-SX 230 kV DLO	Yes
case_b	Post-BLI	1	TL50003 IV-CN 500 kV SLO	Yes
	Post-BLI	2	TL50002 NG-IV 500 kV SLO	Yes
	Post-BLI	3	TL50001 IV-ML W/ SPS 6.1	Yes
	Post-BLI	3A	TL50001 IV-ML W/ SPS 6.2a, trip TL23050	Yes
	Post-BLI	3B	TL50001 IV-ML W/ SPS 6.2b, trip TL23040	Yes
	Post-BLI	4	PEN G-1 (CC TOTAL PLANT)	Yes
	Post-BLI	5	ENPEX G-1 (CC TOTAL PLANT)	Yes
	Post-BLI	6	G-2 SONGS DUO	Yes
	Post-BLI	7	ML-SX + OMGP-ML-SX 230 kV DLO	Yes
case_c	Pre-Load +5%	1	TL50003 IV-CN 500 kV SLO	Yes
	Pre-Load +5%	2	TL50002 NG-IV 500 kV SLO	Yes
	Pre-Load +5%	3	TL50001 IV-ML W/ SPS 6.1	Yes
	Pre-Load +5%	3A	TL50001 IV-ML W/ SPS 6.2a, trip TL23050	Yes
	Pre-Load +5%	3B	TL50001 IV-ML W/ SPS 6.2b, trip TL23040	Yes
	Pre-Load +5%	4	PEN G-1 (CC TOTAL PLANT)	Yes
	Pre-Load +5%	5	ENPEX G-1 (CC TOTAL PLANT)	N/A
case_d	Post-Load +5%	1	TL50003 IV-CN 500 kV SLO	Yes
	Post-Load +5%	2	TL50002 NG-IV 500 kV SLO	Yes
	Post-Load +5%	3	TL50001 IV-ML W/ SPS 6.1	Yes
	Post-Load +5%	3A	TL50001 IV-ML W/ SPS 6.2a, trip TL23050	Yes
	Post-Load +5%	3B	TL50001 IV-ML W/ SPS 6.2b, trip TL23040	Yes
	Post-Load +5%	4	PEN G-1 (CC TOTAL PLANT)	Yes
	Post-Load +5%	5	ENPEX G-1 (CC TOTAL PLANT)	Yes

Table ?? (continued)

Case	Case Type	Cont. Nr.	Cont. Name	GOVPF Solve? Y/N
case_e	Pre-Load +2-1/2%	6	G-2 SONGS DUO	Yes
	Pre-Load +2-1/2%	7	ML-SX + OMGP-ML-SX 230 kV DLO	Yes
case_f	Post-Load +2-1/2%	6	G-2 SONGS DUO	Yes
	Post-Load +2-1/2%	7	ML-SX + OMGP-ML-SX 230 kV DLO	Yes
case_g	Pre-Import +5%	1	TL50003 IV-CN 500 kV SLO	Yes
	Pre-Import +5%	2	TL50002 NG-IV 500 kV SLO	Diverged
	Pre-Import +5%	3	TL50001 IV-ML W/ SPS 6.1	Yes
	Pre-Import +5%	3A	TL50001 IV-ML W/ SPS 6.2a, trip TL23050	Yes
	Pre-Import +5%	3B	TL50001 IV-ML W/ SPS 6.2b, trip TL23040	Yes
	Pre-Import +5%	4	PEN G-1 (CC TOTAL PLANT)	Yes
	Pre-Import +5%	5	ENPEX G-1 (CC TOTAL PLANT)	N/A
Case_g_mit4	Pre-Import +5%	2	TL50002 NG-IV 500 kV SLO	Yes
case_h	Post-Import +5%	1	TL50003 IV-CN 500 kV SLO	Yes
	Post-Import +5%	2	TL50002 NG-IV 500 kV SLO	Yes
	Post-Import +5%	3	TL50001 IV-ML W/ SPS 6.1	Yes
	Post-Import +5%	3A	TL50001 IV-ML W/ SPS 6.2a, trip TL23050	Yes
	Post-Import +5%	3B	TL50001 IV-ML W/ SPS 6.2b, trip TL23040	Yes
	Post-Import +5%	4	PEN G-1 (CC TOTAL PLANT)	Yes
	Post-Import +5%	5	ENPEX G-1 (CC TOTAL PLANT)	Yes
case_h_mit	Post-Import +5%	1	TL50003 IV-CN 500 kV SLO	Yes
	Post-Import +5%	2	TL50002 NG-IV 500 kV SLO	Yes
	Post-Import +5%	3	TL50001 IV-ML W/ SPS 6.1	Yes
	Post-Import +5%	3A	TL50001 IV-ML W/ SPS 6.2a, trip TL23050	Yes
	Post-Import +5%	3B	TL50001 IV-ML W/ SPS 6.2b, trip TL23040	Yes
	Post-Import +5%	4	PEN G-1 (CC TOTAL PLANT)	Yes
	Post-Import +5%	5	ENPEX G-1 (CC TOTAL PLANT)	Yes
case_i	Pre-Import +2-1/2%	6	G-2 SONGS DUO	Yes
	Pre-Import +2-1/2%	7	ML-SX + OMGP-ML-SX 230 kV DLO	Yes
case_j	Post-Load +2-1/2%	6	G-2 SONGS DUO	Yes
	Post-Load +2-1/2%	7	ML-SX + OMGP-ML-SX 230 kV DLO	Yes

Appendix L.2

Contingency Low Voltage Summary

Contingency Low Voltage Results

Category B, Single element contingency
Delta Voltage Drop
SEAMS: CFE/IID/SCE

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus kV	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit4	case_h	case_i	case_j
IMPERIALCA	BANISTER	161	NG-IV 500 kV SLO	0.9								0.879	0.898			
IMPERIALCA	BRAVO	92	NG-IV 500 kV SLO	0.9								0.887				
IMPERIALCA	CALIPAT	92	NG-IV 500 kV SLO	0.9								0.893				
IMPERIALCA	CESUB	161	NG-IV 500 kV SLO	0.9								0.886				
IMPERIALCA	DROP4	92	NG-IV 500 kV SLO	0.9								0.89				
IMPERIALCA	ELCENTSW	161	NG-IV 500 kV SLO	0.9	0.887	0.899	0.886	0.886				0.845	0.867			
IMPERIALCA	ELSTEAMP	92	NG-IV 500 kV SLO	0.9								0.896				
IMPERIALCA	HEBER SC	92	NG-IV 500 kV SLO	0.9								0.896				
IMPERIALCA	HOLTVILL	92	NG-IV 500 kV SLO	0.9								0.878				
IMPERIALCA	MIDWAY	161	NG-IV 500 kV SLO	0.9								0.878	0.896			
IMPERIALCA	NILAND	92	NG-IV 500 kV SLO	0.9								0.886				
IMPERIALCA	NILAND	161	NG-IV 500 kV SLO	0.9			0.895					0.877	0.894			
IMPERIALCA	PERRY	92	NG-IV 500 kV SLO	0.9								0.885				
SOCALIF	EAGLEMTN	161	NG-IV 500 kV SLO	0.9			0.889									

Contingency Low Voltage Results

Category C, Two or more element contingency
Delta Voltage Drop
SEAMS: CFE/IID/SCE

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus kV	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit4	case_h	case_i	case_j
SOCALIF	VIEJOSC	230	SONGS DUO	0.9	0.897					0.899	0.899				0.896	0.894

Contingency Low Voltage Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus kV	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit4	case_h	case_i	case_j
SANDIEGO	BORREGO	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.9								0.894				
SANDIEGO	BORREGO	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.9								0.894				

Contingency Low Voltage Results

Category C, Two or more element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus kV	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit4	case_h	case_i	case_j
SANDIEGO	BORREGO	69	SONGS DUO	0.9	0.877	0.899	0.898			0.873	0.894				0.859	0.884
SANDIEGO	CABRILLO	69	SONGS DUO	0.9	0.899					0.899						
SANDIEGO	CABRLNVY	69	SONGS DUO	0.9	0.899					0.899						
SANDIEGO	NARROWS	69	SONGS DUO	0.9	0.887					0.883					0.874	0.893
SANDIEGO	SPRNGVLY	69	SONGS DUO	0.9						0.9						

Appendix L.3

Contingency Delta Voltage Drop Summary

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SEAMS: CFE/IID/SCE

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus kV	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
IMPERIALCA	AVE42	92	NG-IV 500 kV SLO	0.05								0.059				
IMPERIALCA	AVE58	92	NG-IV 500 kV SLO	0.05								0.066	0.054			
IMPERIALCA	AVE58	161	NG-IV 500 kV SLO	0.05								0.066	0.054			
IMPERIALCA	BANISTER	161	NG-IV 500 kV SLO	0.05	0.083	0.074	0.09	0.084	0.072			0.117	0.1			
IMPERIALCA	BRAVO	92	NG-IV 500 kV SLO	0.05	0.063	0.052	0.063	0.064	0.051			0.104	0.082			
IMPERIALCA	BRAWLEY	92	NG-IV 500 kV SLO	0.05	0.055		0.06	0.056				0.093	0.074			
IMPERIALCA	CALIPAT	92	NG-IV 500 kV SLO	0.05	0.066	0.057	0.075	0.067	0.056			0.1	0.083			
IMPERIALCA	CESUB	161	NG-IV 500 kV SLO	0.05	0.083	0.074	0.093	0.084	0.072			0.117	0.1			
IMPERIALCA	COACHELA	92	NG-IV 500 kV SLO	0.05								0.055				
IMPERIALCA	COACHELV	92	NG-IV 500 kV SLO	0.05								0.054				
IMPERIALCA	COACHELV	161	NG-IV 500 kV SLO	0.05								0.059				
IMPERIALCA	DROP4	92	NG-IV 500 kV SLO	0.05	0.07	0.059	0.071	0.071	0.057			0.109	0.089			
IMPERIALCA	ELCENTRO	230	NG-IV 500 kV SLO	0.05								0.076	0.055			
IMPERIALCA	ELCENTSW	161	NG-IV 500 kV SLO	0.05	0.103	0.092	0.106	0.104	0.09			0.14	0.121			
IMPERIALCA	ELSTEAMP	92	NG-IV 500 kV SLO	0.05	0.06		0.06	0.061				0.101	0.079			
IMPERIALCA	HEBER SC	92	NG-IV 500 kV SLO	0.05	0.059		0.059	0.06				0.1	0.078			
IMPERIALCA	HOLTVILL	92	NG-IV 500 kV SLO	0.05	0.065	0.054	0.065	0.066	0.052			0.106	0.084			
IMPERIALCA	MIDWAY	161	NG-IV 500 kV SLO	0.05	0.082	0.074	0.094	0.083	0.072			0.115	0.099			
IMPERIALCA	NILAND	92	NG-IV 500 kV SLO	0.05	0.072	0.064	0.086	0.073	0.062			0.103	0.088			
IMPERIALCA	NILAND	161	NG-IV 500 kV SLO	0.05	0.078	0.07	0.094	0.079	0.068			0.108	0.093			
IMPERIALCA	PERRY	92	NG-IV 500 kV SLO	0.05	0.062	0.05	0.061	0.062				0.103	0.081			
IMPERIALCA	PILOTKNB	92	NG-IV 500 kV SLO	0.05			0.053					0.064	0.055			
IMPERIALCA	PILOTKNB	161	NG-IV 500 kV SLO	0.05			0.054					0.056	0.05			
IMPERIALCA	RAMON92	92	NG-IV 500 kV SLO	0.05								0.051				
IMPERIALCA	ROCKWOOD	92	NG-IV 500 kV SLO	0.05	0.054		0.058	0.055				0.092	0.073			
IMPERIALCA	RTAP1-6	92	NG-IV 500 kV SLO	0.05	0.053		0.06	0.054				0.083	0.069			
IMPERIALCA	WESTMRLN	92	NG-IV 500 kV SLO	0.05	0.059	0.051	0.066	0.06				0.094	0.077			
IMPERIALCA	YUCCA	161	NG-IV 500 kV SLO	0.05			0.05					0.053				
SOCALIF	BLYTHESC	161	NG-IV 500 kV SLO	0.05			0.081									
SOCALIF	EAGLEMTN	161	NG-IV 500 kV SLO	0.05			0.054									
SOCALIF	VIEJO66	66	NG-IV 500 kV SLO	0.05								0.063	0.052			
SOCALIF	VIEJOSC	230	NG-IV 500 kV SLO	0.05								0.06				

ENPEX IFAS, Delta Voltage Drop Results

Category C, Two or more element contingency
Delta Voltage Drop
SEAMS: CFE/IID/SCE

<----------P o s t S u n r i s e P o w e r L i n k---------->
<----------P e a k L o a d 5 0 3 8 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus kV	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
IMPERIALCA	ELCENTRO	230	SONGS DUO	0.1	0.052					0.051						
MEXICO-CFE	APD-230	230	SONGS DUO	0.1	0.055					0.054						
MEXICO-CFE	CHQ-230	230	SONGS DUO	0.1	0.054					0.052						
MEXICO-CFE	CNT-230	230	SONGS DUO	0.1	0.056					0.054						
MEXICO-CFE	CPD-230	230	SONGS DUO	0.1	0.052					0.051						
MEXICO-CFE	CPT-161	161	SONGS DUO	0.1	0.057					0.056					0.051	
MEXICO-CFE	CPT-230	230	SONGS DUO	0.1	0.052					0.051						
MEXICO-CFE	CPU-161	161	SONGS DUO	0.1	0.057					0.056					0.051	
MEXICO-CFE	CRO-161	161	SONGS DUO	0.1	0.058					0.056					0.051	
MEXICO-CFE	CRO-230	230	SONGS DUO	0.1	0.056					0.055					0.05	
MEXICO-CFE	CSC-230	230	SONGS DUO	0.1	0.054					0.053						
MEXICO-CFE	CTA-69	69	SONGS DUO	0.1	0.052											
MEXICO-CFE	CTY-161	161	SONGS DUO	0.1	0.058					0.057					0.052	0.05
MEXICO-CFE	CTY-230	230	SONGS DUO	0.1	0.056					0.055						
MEXICO-CFE	DAE-230	230	SONGS DUO	0.1	0.056					0.055						
MEXICO-CFE	GOR-161	161	SONGS DUO	0.1	0.058					0.057					0.052	0.05
MEXICO-CFE	HGO-161	161	SONGS DUO	0.1	0.06					0.058					0.053	0.051
MEXICO-CFE	LCA-161	161	SONGS DUO	0.1	0.058					0.056					0.051	
MEXICO-CFE	LRP-230	230	SONGS DUO	0.1	0.053					0.051						
MEXICO-CFE	MOE-161	161	SONGS DUO	0.1	0.058					0.057					0.052	0.05
MEXICO-CFE	MXI-161	161	SONGS DUO	0.1	0.058					0.056					0.051	
MEXICO-CFE	MXI-230	230	SONGS DUO	0.1	0.056					0.055						
MEXICO-CFE	NZI-161	161	SONGS DUO	0.1	0.058					0.057					0.052	0.05
MEXICO-CFE	OZA-230	230	SONGS DUO	0.1	0.056					0.055					0.05	
MEXICO-CFE	PAR-161	161	SONGS DUO	0.1	0.058					0.057					0.051	
MEXICO-CFE	PAR-230	230	SONGS DUO	0.1	0.056					0.054						
MEXICO-CFE	PKD-161	161	SONGS DUO	0.1	0.058					0.057					0.051	
MEXICO-CFE	RIN-161	161	SONGS DUO	0.1	0.058					0.056					0.051	
MEXICO-CFE	ROA-161	161	SONGS DUO	0.1	0.057					0.056					0.051	
MEXICO-CFE	ROA-230	230	SONGS DUO	0.1	0.055					0.053						
MEXICO-CFE	RUM-69	69	SONGS DUO	0.1	0.051											
MEXICO-CFE	RZC-161	161	SONGS DUO	0.1	0.06					0.059					0.053	0.052
MEXICO-CFE	SLR-161	161	SONGS DUO	0.1	0.058					0.057					0.051	
MEXICO-CFE	STA-161	161	SONGS DUO	0.1	0.058					0.056					0.051	
MEXICO-CFE	STB-230	230	SONGS DUO	0.1	0.056					0.055						
MEXICO-CFE	TEK-230	230	SONGS DUO	0.1	0.056					0.055						
MEXICO-CFE	THO-230	230	SONGS DUO	0.1	0.056					0.055						
MEXICO-CFE	WIS-230	230	SONGS DUO	0.1	0.056					0.054						
MEXICO-CFE	XCO-230	230	SONGS DUO	0.1	0.056					0.055						

ENPEX IFAS, Delta Voltage Drop Results

Category C, Two or more element contingency
Delta Voltage Drop
SEAMS: CFE/IID/SCE

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus kV	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SOCALIF	BARRE	66	SONGS DUO	0.1	0.051										0.052	0.053
SOCALIF	ELLIS	66	SONGS DUO	0.1	0.061	0.057	0.058			0.059	0.059				0.062	0.062
SOCALIF	ELLIS	230	SONGS DUO	0.1	0.056	0.052	0.053			0.055	0.055				0.057	0.058
SOCALIF	HUNTBCH1	230	SONGS DUO	0.1	0.051										0.052	0.052
SOCALIF	HUNTGBCH	66	SONGS DUO	0.1	0.061	0.057	0.058			0.059	0.059				0.062	0.063
SOCALIF	HUNTGBCH	230	SONGS DUO	0.1	0.056	0.052	0.053			0.055	0.055				0.057	0.058
SOCALIF	JOHANNA	66	SONGS DUO	0.1	0.069	0.064	0.065			0.067	0.067				0.07	0.07
SOCALIF	JOHANNA	230	SONGS DUO	0.1	0.063	0.059	0.06			0.061	0.062				0.064	0.065
SOCALIF	LEWIS	66	SONGS DUO	0.1	0.053		0.05			0.052	0.051				0.054	0.054
SOCALIF	LEWIS	230	SONGS DUO	0.1											0.051	0.052
SOCALIF	S.ONOFRE	230	SONGS DUO	0.1	0.089	0.081	0.084			0.086	0.086				0.089	0.089
SOCALIF	SANTIAGO	66	SONGS DUO	0.1	0.074	0.069	0.071			0.072	0.073				0.075	0.076
SOCALIF	SANTIAGO	230	SONGS DUO	0.1	0.069	0.064	0.066			0.067	0.068				0.07	0.071
SOCALIF	SERRANO	230	SONGS DUO	0.1	0.05										0.052	0.052
SOCALIF	VIEJO66	66	SONGS DUO	0.1	0.091	0.085	0.087			0.088	0.089				0.092	0.092
SOCALIF	VIEJOSC	230	SONGS DUO	0.1	0.086	0.08	0.082			0.084	0.084				0.087	0.087
SOCALIF	VILLA PK	66	SONGS DUO	0.1	0.054	0.051	0.052			0.053	0.053				0.055	0.056
SOCALIF	VILLA PK	230	SONGS DUO	0.1	0.05										0.052	0.052

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	ALPINE	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.068			0.072				0.081	0.078	0.054		
SANDIEGO	ARTESN	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.053			0.053				0.064	0.062			
SANDIEGO	ASH TP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.05				
SANDIEGO	B	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.073	0.065			
SANDIEGO	B TP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.066			
SANDIEGO	BARRETT	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.064			0.07				0.075	0.077	0.05		
SANDIEGO	BARRETTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.066			0.071				0.078	0.077	0.052		
SANDIEGO	BATIQTOS	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.052	0.062			
SANDIEGO	BATIQTP	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.052	0.062			
SANDIEGO	BERNARDO	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.051			0.051				0.062	0.06			
SANDIEGO	BERNDOTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.051			0.051				0.062	0.06			
SANDIEGO	BLDCRKTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.063			0.067				0.075	0.074			
SANDIEGO	BOLDRCRK	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.063			0.067				0.075	0.074			
SANDIEGO	BOLVRDTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.059			0.067				0.069	0.074			
SANDIEGO	BORDER	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.071			0.071				0.084	0.058	0.055		
SANDIEGO	BORDERTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.071			0.071				0.084	0.061	0.056		
SANDIEGO	BORREGO	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.069			0.072				0.083	0.08	0.055		
SANDIEGO	BOULEVRD	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.055			0.065				0.064	0.072			
SANDIEGO	CABRILLO	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.058				0.068	0.062			
SANDIEGO	CABRLNVY	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.058				0.068	0.062			
SANDIEGO	CALAVRTP	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05									0.059			
SANDIEGO	CALPK_BD	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.071			0.071				0.084	0.058	0.055		
SANDIEGO	CALPK_EC	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.071			0.073				0.084	0.076	0.056		
SANDIEGO	CAMERON	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.061			0.068				0.071	0.075			
SANDIEGO	CAMPOGEN	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.054			0.065				0.063	0.072			
SANDIEGO	CANNON	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05									0.061			
SANDIEGO	CARLTHTP	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.06			0.06				0.071	0.068			
SANDIEGO	CARLTNHS	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.06			0.059				0.071	0.067			
SANDIEGO	CENTRALX	230	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.063				0.076	0.075	0.051		
SANDIEGO	CENTRALX	500	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.058			0.058				0.072	0.072			
SANDIEGO	CENTRLMP	500	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.064			0.064				0.078	0.078	0.053		
SANDIEGO	CHCARITA	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.054			0.051				0.064	0.066			
SANDIEGO	CHOLLAS	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.07				0.083	0.072	0.055		
SANDIEGO	CLAIRMNT	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.061			0.061				0.073	0.069			
SANDIEGO	CLARMTTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.061			0.061				0.073	0.069			
SANDIEGO	CORONADO	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.066			
SANDIEGO	CREELMAN	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.065			0.068				0.078	0.075	0.052		
SANDIEGO	CRESTWD	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.055			0.065				0.064	0.072			
SANDIEGO	DEL MAR	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.056			0.055				0.067	0.066			
SANDIEGO	DELMARTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.056				0.068	0.067			
SANDIEGO	DESCANSO	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.064			0.069				0.075	0.076			
SANDIEGO	DIVISION	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.065			0.066				0.077	0.068	0.052		
SANDIEGO	DOUBLET	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.056				0.068	0.068			

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

					<----------Post Sunrise Power Link---------->												
					<----------Peak Load 5038 MW---------->												
					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%		
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post	
Area	Busname	Bus k	Contingency	Criteri	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j	
SANDIEGO	DOUBLET	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.05							0.06	0.061				
SANDIEGO	DOUBLTTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.056				0.068	0.068				
SANDIEGO	DOUBLTTP	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.05							0.06	0.061				
SANDIEGO	DUNHILL	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.056				0.068	0.068				
SANDIEGO	DUNHILTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.056				0.068	0.068				
SANDIEGO	EASTGATE	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.058			0.057				0.069	0.068				
SANDIEGO	EL CAJON	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.071			0.073				0.084	0.076	0.056			
SANDIEGO	ELLIOTT	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.063				0.074	0.069				
SANDIEGO	ENCINA	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05									0.061				
SANDIEGO	ENCNITAS	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.056				0.068	0.067				
SANDIEGO	ESCNDO50	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05									0.056				
SANDIEGO	ESCO	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.05					
SANDIEGO	F	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.069				
SANDIEGO	FELCTATP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.051	0.05				
SANDIEGO	FELICITA	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.051	0.05				
SANDIEGO	FENTON	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.059			0.059				0.071	0.069				
SANDIEGO	FENTONTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.059			0.059				0.071	0.069				
SANDIEGO	FRIARS	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.056			0.056				0.067	0.063				
SANDIEGO	GARFIELD	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.069			0.071				0.082	0.075	0.055			
SANDIEGO	GEN DYNM	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.069				
SANDIEGO	GENDYNTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.069				
SANDIEGO	GENESEE	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.056				0.068	0.068				
SANDIEGO	GLENCLIF	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.061			0.068				0.071	0.075				
SANDIEGO	GLNCLFTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.061			0.068				0.071	0.075				
SANDIEGO	GOALLINE	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.05					
SANDIEGO	GRANITE	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.073				0.084	0.076	0.056			
SANDIEGO	GRANITTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.072				0.083	0.076	0.055			
SANDIEGO	GRNT HLL	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.061			0.061				0.072	0.066				
SANDIEGO	IMPRLBCH	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.07				0.083	0.07	0.055			
SANDIEGO	JAMACHA	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.071				0.083	0.073	0.055			
SANDIEGO	KEAMDGT2	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.069				
SANDIEGO	KEAMDGT3	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.069				
SANDIEGO	KEARNY	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.069				
SANDIEGO	KETTNER	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.06			0.061				0.072	0.065				
SANDIEGO	KYOCERA	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.069				
SANDIEGO	KYOCRATP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.069				
SANDIEGO	LA JOLLA	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.06			0.06				0.071	0.068				
SANDIEGO	Lkhodges	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.057	0.056				
SANDIEGO	LOSCOCHS	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.068			0.071				0.081	0.077	0.054			
SANDIEGO	LOSCOCHS	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.065			0.066				0.077	0.071	0.052			
SANDIEGO	LOVELAND	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.067			0.071				0.08	0.077	0.053			
SANDIEGO	LRKSP_BD	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.071			0.071				0.084	0.058	0.055			
SANDIEGO	MAIN ST	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.063				0.074	0.066				

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteri	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	MDWLRKTP	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.054	0.062			
SANDIEGO	MESA RIM	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.059			0.058				0.071	0.069			
SANDIEGO	MESAHGTS	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.069			
SANDIEGO	MIGUEL	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.07				0.083	0.071	0.055		
SANDIEGO	MIGUEL	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.065			0.065				0.077	0.068	0.051		
SANDIEGO	MIGUEL	230	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.065			0.065				0.076	0.067	0.051		
SANDIEGO	MIGUEL	500	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.067			0.066				0.079	0.067	0.054		
SANDIEGO	MIGUELMP	500	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.066			0.065				0.077	0.067	0.052		
SANDIEGO	MIGUELTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.07				0.082	0.071	0.054		
SANDIEGO	MIRAMAR	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.059			0.059				0.071	0.069			
SANDIEGO	MIRAMAR1	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.059			0.058				0.07	0.069			
SANDIEGO	MIRAMRTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.058			0.057				0.069	0.068			
SANDIEGO	MISSION	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.073	0.068			
SANDIEGO	MISSION	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.057				0.068	0.064			
SANDIEGO	MISSION	230	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.052			0.052				0.062	0.058			
SANDIEGO	MONTGMRY	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.069			0.07				0.082	0.07	0.055		
SANDIEGO	MONTGYTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.069			0.07				0.082	0.07	0.055		
SANDIEGO	MURRAY	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.068			0.069				0.081	0.074	0.054		
SANDIEGO	NARROWS	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.066			0.069				0.08	0.077	0.053		
SANDIEGO	NATNLCTY	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.068			0.068				0.08	0.07	0.053		
SANDIEGO	NAVSTMTR	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.067			0.067				0.079	0.069	0.053		
SANDIEGO	NOISLMTR	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.066			
SANDIEGO	NORTHCTY	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.058	0.061			
SANDIEGO	OLD TOWN	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.057				0.068	0.062			
SANDIEGO	OLD TOWN	230	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.05			0.05				0.06	0.056			
SANDIEGO	OLDTWNTP	230	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.05			0.05				0.06	0.056			
SANDIEGO	OMWD	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.054	0.053			
SANDIEGO	OTAY	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.07				0.083	0.069	0.055		
SANDIEGO	OTAY TP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.07				0.083	0.069	0.055		
SANDIEGO	OTAYLAKE	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.071			0.071				0.084	0.061	0.056		
SANDIEGO	OTAYLKTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.071			0.071				0.084	0.068	0.056		
SANDIEGO	PACFCBCH	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.058			0.058				0.069	0.064			
SANDIEGO	PALOMAR	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.051	0.062			
SANDIEGO	PARADISE	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.07				0.083	0.071	0.055		
SANDIEGO	PENSQTOS	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.055				0.068	0.067			
SANDIEGO	PENSQTOS	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.06	0.061			
SANDIEGO	PENSQTOS	230	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.051							0.06	0.058			
SANDIEGO	POINTLMA	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.057				0.068	0.062			
SANDIEGO	POMERADO	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.06			0.06				0.071	0.068			
SANDIEGO	POWAY	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.054			0.054				0.065	0.063			
SANDIEGO	PRCTRVLY	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.065			0.065				0.076	0.068	0.051		
SANDIEGO	R.CARMEL	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.053			0.053				0.064	0.062			
SANDIEGO	R.SNTAFE	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.053			0.053				0.064	0.063			

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteri	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	R.SNTATP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.055			0.054				0.067	0.066			
SANDIEGO	RAMCO_OY	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.07				0.083	0.069	0.055		
SANDIEGO	RINCON	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.054	0.053			
SANDIEGO	ROSCYNTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.06			0.059				0.071	0.068			
SANDIEGO	ROSE CYN	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.06			0.059				0.071	0.068			
SANDIEGO	SAMPSON	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.063				0.074	0.066			
SANDIEGO	SANLUSRY	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05									0.058			
SANDIEGO	SANTEE	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.063			0.063				0.075	0.07	0.051		
SANDIEGO	SANTYSBL	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.063			0.066				0.075	0.073			
SANDIEGO	SANYSDRO	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.071			0.071				0.084	0.068	0.056		
SANDIEGO	SCRIPPS	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.06			0.06				0.072	0.07			
SANDIEGO	SHADOWR	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05									0.059			
SANDIEGO	SILVERGT	230	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.056	0.053			
SANDIEGO	SOUTHBAY	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.069			0.07				0.082	0.07	0.055		
SANDIEGO	SOUTHBAY	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.063			0.063				0.074	0.067			
SANDIEGO	SPRNGVLY	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.071				0.083	0.072	0.055		
SANDIEGO	STREAMVW	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.069			0.07				0.082	0.071	0.055		
SANDIEGO	SUNYSDTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.07				0.082	0.071	0.054		
SANDIEGO	SUNYSIDE	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.07			0.07				0.082	0.071	0.054		
SANDIEGO	SWEETWTR	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.069			0.069				0.081	0.07	0.054		
SANDIEGO	SWTWTRTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.068			0.068				0.08	0.069	0.053		
SANDIEGO	SYCAMORE	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.061			0.061				0.073	0.069			
SANDIEGO	SYCAMORE	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.058			0.057				0.069	0.068			
SANDIEGO	SYCAMORE	230	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.058			0.058				0.068	0.066			
SANDIEGO	TELECYN	138	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.065			0.064				0.076	0.068	0.051		
SANDIEGO	TOREYPNS	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.056				0.068	0.068			
SANDIEGO	UCM	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.057			0.056				0.068	0.068			
SANDIEGO	URBAN	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.062			0.062				0.074	0.066			
SANDIEGO	VALCNTR	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05								0.052	0.051			
SANDIEGO	WABASH	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.069			0.069				0.081	0.071	0.054		
SANDIEGO	WARCYNTP	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.051			0.051				0.062	0.06			
SANDIEGO	WARENCYN	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.051			0.051				0.062	0.06			
SANDIEGO	WARNERS	69	IV-ML 500kV/Gen Trip/IV-ROA/SPS 6.2a	0.05	0.059			0.062				0.071	0.069			
SANDIEGO	ALPINE	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.068			0.072				0.081	0.078	0.054		
SANDIEGO	ARTESN	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.053			0.053				0.064	0.062			
SANDIEGO	ASH TP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.05				
SANDIEGO	B	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.073	0.065			
SANDIEGO	B TP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.066			
SANDIEGO	BARRETT	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.064			0.07				0.075	0.077	0.05		
SANDIEGO	BARRETTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.066			0.071				0.078	0.077	0.052		
SANDIEGO	BATIQTOS	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.052	0.062			
SANDIEGO	BATIQTP	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.052	0.062			
SANDIEGO	BERNARDO	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.051			0.051				0.062	0.06			

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteri	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	BERNDOTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.051			0.051				0.062	0.06			
SANDIEGO	BLDCRKTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.063			0.067				0.075	0.074			
SANDIEGO	BOLDRCRK	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.063			0.067				0.075	0.074			
SANDIEGO	BOLVRDTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.059			0.067				0.069	0.074			
SANDIEGO	BORDER	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.071			0.071				0.084	0.058	0.055		
SANDIEGO	BORDERTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.071			0.071				0.084	0.061	0.056		
SANDIEGO	BORREGO	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.069			0.072				0.083	0.08	0.055		
SANDIEGO	BOULEVRD	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.055			0.065				0.064	0.072			
SANDIEGO	CABRILLO	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.058				0.068	0.062			
SANDIEGO	CABRLNVY	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.058				0.068	0.062			
SANDIEGO	CALAVRTP	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05									0.059			
SANDIEGO	CALPK_BD	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.071			0.071				0.084	0.058	0.055		
SANDIEGO	CALPK_EC	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.071			0.073				0.084	0.076	0.056		
SANDIEGO	CAMERON	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.061			0.068				0.071	0.075			
SANDIEGO	CAMPOGEN	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.054			0.065				0.063	0.072			
SANDIEGO	CANNON	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05									0.061			
SANDIEGO	CARLTHTP	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.06			0.06				0.071	0.068			
SANDIEGO	CARLTNHS	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.06			0.059				0.071	0.067			
SANDIEGO	CENTRALX	230	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.063				0.076	0.075	0.051		
SANDIEGO	CENTRALX	500	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.058			0.058				0.072	0.072			
SANDIEGO	CENTRLMP	500	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.064			0.064				0.078	0.078	0.053		
SANDIEGO	CHCARITA	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.054			0.051				0.064	0.066			
SANDIEGO	CHOLLAS	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.07				0.083	0.072	0.055		
SANDIEGO	CLAIRMNT	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.061			0.061				0.073	0.069			
SANDIEGO	CLARMTTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.061			0.061				0.073	0.069			
SANDIEGO	CORONADO	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.066			
SANDIEGO	CREELMAN	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.065			0.068				0.078	0.075	0.052		
SANDIEGO	CRESTWD	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.055			0.065				0.064	0.072			
SANDIEGO	DEL MAR	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.056			0.055				0.067	0.066			
SANDIEGO	DELMARTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.056				0.068	0.067			
SANDIEGO	DESCANSO	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.064			0 069				0.075	0.076			
SANDIEGO	DIVISION	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.065			0.066				0.077	0.068	0.052		
SANDIEGO	DOUBLET	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.056				0.068	0.068			
SANDIEGO	DOUBLET	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.05							0.06	0.061			
SANDIEGO	DOUBLTTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.056				0.068	0.068			
SANDIEGO	DOUBLTTP	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.05							0.06	0.061			
SANDIEGO	DUNHILL	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.056				0.068	0.068			
SANDIEGO	DUNHILTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.056				0.068	0.068			
SANDIEGO	EASTGATE	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.058			0.057				0.069	0.068			
SANDIEGO	EL CAJON	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.071			0.073				0.084	0.076	0.056		
SANDIEGO	ELLIOTT	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.063				0.074	0.069			
SANDIEGO	ENCINA	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05									0.061			
SANDIEGO	ENCNITAS	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.056				0.068	0.067			

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	ESCNDO50	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05									0.056			
SANDIEGO	ESCO	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.05				
SANDIEGO	F	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.069			
SANDIEGO	FELCTATP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.051	0.05			
SANDIEGO	FELICITA	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.051	0.05			
SANDIEGO	FENTON	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.059			0.059				0.071	0.069			
SANDIEGO	FENTONTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.059			0.059				0.071	0.069			
SANDIEGO	FRIARS	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.056			0.056				0.067	0.063			
SANDIEGO	GARFIELD	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.069			0.071				0.082	0.075	0.055		
SANDIEGO	GEN DYNM	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.069			
SANDIEGO	GENDYNTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.069			
SANDIEGO	GENESEE	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.056				0.068	0.068			
SANDIEGO	GLENCLIF	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.061			0.068				0.071	0.075			
SANDIEGO	GLNCLFTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.061			0.068				0.071	0.075			
SANDIEGO	GOALLINE	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.05				
SANDIEGO	GRANITE	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.073				0.084	0.076	0.056		
SANDIEGO	GRANITTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.072				0.083	0.076	0.055		
SANDIEGO	GRNT HLL	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.061			0.061				0.072	0.066			
SANDIEGO	IMPRLBCH	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.07				0.083	0.07	0.055		
SANDIEGO	JAMACHA	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.071				0.083	0.073	0.055		
SANDIEGO	KEAMDGT2	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.069			
SANDIEGO	KEAMDGT3	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.069			
SANDIEGO	KEARNY	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.069			
SANDIEGO	KETTNER	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.06			0.061				0.072	0.065			
SANDIEGO	KYOCERA	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.069			
SANDIEGO	KYOCRATP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.069			
SANDIEGO	LA JOLLA	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.06			0.06				0.071	0.068			
SANDIEGO	Lkhodges	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.057	0.056			
SANDIEGO	LOSCOCHS	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.068			0.071				0.081	0.077	0.054		
SANDIEGO	LOSCOCHS	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.065			0.066				0.077	0.071	0.052		
SANDIEGO	LOVELAND	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.067			0.071				0.08	0.077	0.053		
SANDIEGO	LRKSP_BD	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.071			0.071				0.084	0.058	0.055		
SANDIEGO	MAIN ST	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.063				0.074	0.066			
SANDIEGO	MDWLRKTP	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.054	0.062			
SANDIEGO	MESA RIM	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.059			0.058				0.071	0.069			
SANDIEGO	MESAHGTS	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.069			
SANDIEGO	MIGUEL	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.07				0.083	0.071	0.055		
SANDIEGO	MIGUEL	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.065			0.065				0.077	0.068	0.051		
SANDIEGO	MIGUEL	230	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.065			0.065				0.076	0.067	0.051		
SANDIEGO	MIGUEL	500	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.067			0.066				0.079	0.067	0.054		
SANDIEGO	MIGUELMP	500	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.066			0.065				0.077	0.067	0.052		
SANDIEGO	MIGUELTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.07				0.082	0.071	0.054		
SANDIEGO	MIRAMAR	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.059			0.059				0.071	0.069			

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

					<----------Post Sunrise Power Link---------->											
					<----------Peak Load 5038 MW---------->											
					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	MIRAMAR1	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.059			0.058				0.07	0.069			
SANDIEGO	MIRAMRTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.058			0.057				0.069	0.068			
SANDIEGO	MISSION	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.073	0.068			
SANDIEGO	MISSION	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.057				0.068	0.064			
SANDIEGO	MISSION	230	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.052			0.052				0.062	0.058			
SANDIEGO	MONTGMRY	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.069			0.07				0.082	0.07	0.055		
SANDIEGO	MONTGYTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.069			0.07				0.082	0.07	0.055		
SANDIEGO	MURRAY	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.068			0.069				0.081	0.074	0.054		
SANDIEGO	NARROWS	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.066			0.069				0.08	0.077	0.053		
SANDIEGO	NATNLCTY	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.068			0.068				0.08	0.07	0.053		
SANDIEGO	NAVSTMTR	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.067			0.067				0.079	0.069	0.053		
SANDIEGO	NOISLMTR	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.066			
SANDIEGO	NORTHCTY	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.058	0.061			
SANDIEGO	OLD TOWN	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.057				0.068	0.062			
SANDIEGO	OLD TOWN	230	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.05			0.05				0.06	0.056			
SANDIEGO	OLDTWNTP	230	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.05			0.05				0.06	0.056			
SANDIEGO	OMWD	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.054	0.053			
SANDIEGO	OTAY	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.07				0.083	0.069	0.055		
SANDIEGO	OTAY TP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.07				0.083	0.069	0.055		
SANDIEGO	OTAYLAKE	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.071			0.071				0.084	0.061	0.056		
SANDIEGO	OTAYLKTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.071			0.071				0.084	0.068	0.056		
SANDIEGO	PACFCBCH	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.058			0.058				0.069	0.064			
SANDIEGO	PALOMAR	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.051	0.062			
SANDIEGO	PARADISE	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.07				0.083	0.071	0.055		
SANDIEGO	PENSQTOS	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.055				0.068	0.067			
SANDIEGO	PENSQTOS	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.06	0.061			
SANDIEGO	PENSQTOS	230	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.051							0.06	0.058			
SANDIEGO	POINTLMA	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.057				0.068	0.062			
SANDIEGO	POMERADO	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.06			0.06				0.071	0.068			
SANDIEGO	POWAY	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.054			0.054				0.065	0.063			
SANDIEGO	PRCTRVLY	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.065			0.065				0.076	0.068	0.051		
SANDIEGO	R.CARMEL	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.053			0.053				0.064	0.062			
SANDIEGO	R.SNTAFE	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.053			0.053				0.064	0.063			
SANDIEGO	R.SNTATP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.055			0.054				0.067	0.066			
SANDIEGO	RAMCO_OY	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.07				0.083	0.069	0.055		
SANDIEGO	RINCON	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.054	0.053			
SANDIEGO	ROSCYNTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.06			0.059				0.071	0.068			
SANDIEGO	ROSE CYN	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.06			0.059				0.071	0.068			
SANDIEGO	SAMPSON	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.063				0.074	0.066			
SANDIEGO	SANLUSRY	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05									0.058			
SANDIEGO	SANTEE	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.063			0.063				0.075	0.07	0.051		
SANDIEGO	SANTYSBL	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.063			0.066				0.075	0.073			
SANDIEGO	SANYSDRO	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.071			0.071				0.084	0.068	0.056		

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteri	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	SCRIPPS	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.06			0.06				0.072	0.07			
SANDIEGO	SHADOWR	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05									0.059			
SANDIEGO	SILVERGT	230	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.056	0.053			
SANDIEGO	SOUTHBAY	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.069			0.07				0.082	0.07	0.055		
SANDIEGO	SOUTHBAY	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.063			0.063				0.074	0.067			
SANDIEGO	SPRNGVLY	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.071				0.083	0.072	0.055		
SANDIEGO	STREAMVW	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.069			0.07				0.082	0.071	0.055		
SANDIEGO	SUNYSDTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.07				0.082	0.071	0.054		
SANDIEGO	SUNYSIDE	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.07			0.07				0.082	0.071	0.054		
SANDIEGO	SWEETWTR	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.069			0.069				0.081	0.07	0.054		
SANDIEGO	SWTWTRTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.068			0.068				0.08	0.069	0.053		
SANDIEGO	SYCAMORE	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.061			0.061				0.073	0.069			
SANDIEGO	SYCAMORE	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.058			0.057				0.069	0.068			
SANDIEGO	SYCAMORE	230	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.058			0.058				0.068	0.066			
SANDIEGO	TELECYN	138	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.065			0.064				0.076	0.068	0.051		
SANDIEGO	TOREYPNS	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.056				0.068	0.068			
SANDIEGO	UCM	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.057			0.056				0.068	0.068			
SANDIEGO	URBAN	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.062			0.062				0.074	0.066			
SANDIEGO	VALCNTR	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05								0.052	0.051			
SANDIEGO	WABASH	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.069			0.069				0.081	0.071	0.054		
SANDIEGO	WARCYNTP	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.051			0.051				0.062	0.06			
SANDIEGO	WARENCYN	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.051			0.051				0.062	0.06			
SANDIEGO	WARNERS	69	IV-ML 500kV/Gen Trip/OMGP-TJI/SPS 6.2b	0.05	0.059			0.062				0.071	0.069			
SANDIEGO	ALPINE	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.053				
SANDIEGO	B TP	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.05				
SANDIEGO	BARRETTP	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.051				
SANDIEGO	BORDER	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.056				
SANDIEGO	BORDERTP	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.056				
SANDIEGO	BORREGO	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.052				
SANDIEGO	CALPK_BD	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.056				
SANDIEGO	CALPK_EC	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05				0.051				0.056				
SANDIEGO	CHOLLAS	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	CORONADO	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.05				
SANDIEGO	DIVISION	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.053				
SANDIEGO	EL CAJON	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05				0.051				0.056				
SANDIEGO	GARFIELD	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.054				
SANDIEGO	GRANITE	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05				0.05				0.055				
SANDIEGO	GRANITTP	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.054				
SANDIEGO	IMPRLBCH	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.056				
SANDIEGO	JAMACHA	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	LOSCOCHS	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.053				
SANDIEGO	LOSCOCHS	138	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.05				
SANDIEGO	LOVELAND	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.052				

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteri	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	LRKSP_BD	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.056				
SANDIEGO	MAIN ST	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.05				
SANDIEGO	MIGUEL	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	MIGUEL	138	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.051				
SANDIEGO	MIGUEL	230	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.051				
SANDIEGO	MIGUEL	500	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.054				
SANDIEGO	MIGUELMP	500	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.052				
SANDIEGO	MIGUELTP	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	MONTGMRY	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	MONTGYTP	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	MURRAY	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.053				
SANDIEGO	NARROWS	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.05				
SANDIEGO	NATNLCTY	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.054				
SANDIEGO	NAVSTMTR	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.054				
SANDIEGO	NOISLMTR	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.05				
SANDIEGO	OTAY	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.056				
SANDIEGO	OTAY TP	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.056				
SANDIEGO	OTAYLAKE	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.056				
SANDIEGO	OTAYLKTP	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05				0.05				0.056				
SANDIEGO	PARADISE	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	PRCTRVLY	138	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.05				
SANDIEGO	RAMCO_OY	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.056				
SANDIEGO	SAMPSON	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.051				
SANDIEGO	SANYSDRO	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05	0.05			0.05				0.056				
SANDIEGO	SOUTHBAY	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	SPRNGVLY	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	STREAMVW	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	SUNYSDTP	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	SUNYSIDE	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	SWEETWTR	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	SWTWTRTP	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.054				
SANDIEGO	URBAN	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.05				
SANDIEGO	WABASH	69	IV-ML 500kV/Gen Trip/SPS 6.1	0.05								0.055				
SANDIEGO	ALPINE	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	ARTESN	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	ASH	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	ASH TP	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	AVCADOTP	69	NG-IV 500 kV SLO	0.05								0.064	0.05			
SANDIEGO	AVOCADO	69	NG-IV 500 kV SLO	0.05								0.064	0.05			
SANDIEGO	B	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	B TP	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	BARRETT	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	BARRETTP	69	NG-IV 500 kV SLO	0.05								0.054				

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	BERNARDO	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	BERNDOTP	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	BLDCRKTP	69	NG-IV 500 kV SLO	0.05								0.056				
SANDIEGO	BOLDRCRK	69	NG-IV 500 kV SLO	0.05								0.056				
SANDIEGO	BORDER	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	BORDERTP	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	BORREGO	69	NG-IV 500 kV SLO	0.05								0.071	0.053			
SANDIEGO	CABRILLO	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	CABRLNVY	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	CALPK_BD	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	CALPK_EC	69	NG-IV 500 kV SLO	0.05								0.056				
SANDIEGO	CALPK_ES	69	NG-IV 500 kV SLO	0.05								0.051				
SANDIEGO	CAMERON	69	NG-IV 500 kV SLO	0.05								0.05				
SANDIEGO	CHOLLAS	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	CLAIRMNT	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	CLARMTTP	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	CORONADO	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	CREELMAN	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	DEL MAR	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	DELMARTP	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	DESCANSO	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	DIVISION	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	DOUBLET	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	DOUBLTTP	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	DUNHILL	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	DUNHILTP	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	EASTGATE	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	EL CAJON	69	NG-IV 500 kV SLO	0.05								0.056				
SANDIEGO	ELLIOTT	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	ENCINA	230	NG-IV 500 kV SLO	0.05								0.058				
SANDIEGO	ENCINATP	230	NG-IV 500 kV SLO	0.05								0.058				
SANDIEGO	ENCNITAS	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	ESCNDIDO	69	NG-IV 500 kV SLO	0.05								0.051				
SANDIEGO	ESCO	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	F	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	FELCTATP	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	FELICITA	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	FENTON	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	FENTONTP	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	FRIARS	138	NG-IV 500 kV SLO	0.05								0.051				
SANDIEGO	GARFIELD	69	NG-IV 500 kV SLO	0.05								0.056				
SANDIEGO	GEN DYNM	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	GENDYNTP	69	NG-IV 500 kV SLO	0.05								0.055				

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	GENESEE	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	GLENCLIF	69	NG-IV 500 kV SLO	0.05								0.051				
SANDIEGO	GLNCLFTP	69	NG-IV 500 kV SLO	0.05								0.051				
SANDIEGO	GOALLINE	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	GRANITE	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	GRANITTP	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	HORNO	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	HORNO TP	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	IMPRLBCH	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	JAMACHA	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	JAP MESA	69	NG-IV 500 kV SLO	0.05								0.051				
SANDIEGO	KEAMDGT2	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	KEAMDGT3	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	KEARNY	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	KETTNER	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	KYOCERA	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	KYOCRATP	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	LA JOLLA	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	LASPULGS	69	NG-IV 500 kV SLO	0.05								0.056				
SANDIEGO	LILAC	69	NG-IV 500 kV SLO	0.05								0.056				
SANDIEGO	Lkhodges	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	LOSCOCHS	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	LOSCOCHS	138	NG-IV 500 kV SLO	0.05								0.051				
SANDIEGO	LOVELAND	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	LRKSP_BD	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	MAIN ST	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	MELROSE	69	NG-IV 500 kV SLO	0.05								0.063				
SANDIEGO	MELRSETP	69	NG-IV 500 kV SLO	0.05								0.061				
SANDIEGO	MESA RIM	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	MESAHGTS	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	MIGUELTP	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	MIRAMAR	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	MIRAMAR1	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	MIRAMRTP	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	MISSION	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	MISSION	138	NG-IV 500 kV SLO	0.05								0.051				
SANDIEGO	MISSION	230	NG-IV 500 kV SLO	0.05								0.05				
SANDIEGO	MNSRATTP	69	NG-IV 500 kV SLO	0.05								0.063				
SANDIEGO	MONSRATE	69	NG-IV 500 kV SLO	0.05								0.063				
SANDIEGO	MONTGMRY	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	MONTGYTP	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	MORHILTP	69	NG-IV 500 kV SLO	0.05								0.063	0.05			
SANDIEGO	MOROHILL	69	NG-IV 500 kV SLO	0.05								0.063	0.05			

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	MURRAY	69	NG-IV 500 kV SLO	0.05								0.056				
SANDIEGO	NARROWS	69	NG-IV 500 kV SLO	0.05								0.068	0.051			
SANDIEGO	NATNLCTY	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	NAVSTMTR	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	NOISLMTR	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	OCEANSDE	69	NG-IV 500 kV SLO	0.05								0.063				
SANDIEGO	OCNSDETP	69	NG-IV 500 kV SLO	0.05								0.062				
SANDIEGO	OLD TOWN	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	OMWD	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	OTAY	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	OTAY TP	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	OTAYLAKE	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	OTAYLKTP	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	PACFCBCH	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	PALA	69	NG-IV 500 kV SLO	0.05								0.063				
SANDIEGO	PARADISE	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	PENDLETN	69	NG-IV 500 kV SLO	0.05								0.064	0.05			
SANDIEGO	PENSQTOS	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	POINTLMA	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	POMERADO	69	NG-IV 500 kV SLO	0.05								0.05				
SANDIEGO	POWAY	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	R.CARMEL	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	R.SNTAFE	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	R.SNTATP	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	RAMCO_ES	69	NG-IV 500 kV SLO	0.05								0.051				
SANDIEGO	RAMCO_OY	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	RINCON	69	NG-IV 500 kV SLO	0.05								0.056				
SANDIEGO	ROSCYNTP	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	ROSE CYN	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	SAMPSON	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	SANLUSRY	69	NG-IV 500 kV SLO	0.05								0.062				
SANDIEGO	SANLUSRY	138	NG-IV 500 kV SLO	0.05								0.05				
SANDIEGO	SANLUSRY	230	NG-IV 500 kV SLO	0.05								0.06				
SANDIEGO	SANMRCOS	69	NG-IV 500 kV SLO	0.05								0.058				
SANDIEGO	SANTYSBL	69	NG-IV 500 kV SLO	0.05								0.057				
SANDIEGO	SANYSDRO	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	SCRIPPS	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	SOUTHBAY	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	SPRNGVLY	69	NG-IV 500 kV SLO	0.05								0.053				
SANDIEGO	STREAMVW	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	STUART	69	NG-IV 500 kV SLO	0.05								0.06				
SANDIEGO	STUARTTP	69	NG-IV 500 kV SLO	0.05								0.06				
SANDIEGO	SUNYSDTP	69	NG-IV 500 kV SLO	0.05								0.052				

ENPEX IFAS, Delta Voltage Drop Results

Category B, Single element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteria	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	SUNYSIDE	69	NG-IV 500 kV SLO	0.05								0.052				
SANDIEGO	SWEETWTR	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	SWTWTRTP	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	TOREYPNS	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	UCM	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	URBAN	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	VALCNTR	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	WABASH	69	NG-IV 500 kV SLO	0.05								0.055				
SANDIEGO	WARCYNTP	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	WARENCYN	69	NG-IV 500 kV SLO	0.05								0.054				
SANDIEGO	WARNERS	69	NG-IV 500 kV SLO	0.05								0.061				

ENPEX IFAS, Delta Voltage Drop Results

Category C, Two or more element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteri	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	ALPINE	69	SONGS DUO	0.1	0.095	0.075	0.079			0.089	0.083				0.09	0.082
SANDIEGO	ARTESN	69	SONGS DUO	0.1	0.08	0.064	0.068			0.074	0.068				0.075	0.071
SANDIEGO	ASH	69	SONGS DUO	0.1	0.07	0.059	0.062			0.065	0.063				0.066	0.065
SANDIEGO	ASH TP	69	SONGS DUO	0.1	0.071	0.059	0.063			0.066	0.064				0.067	0.066
SANDIEGO	AVCADOTP	69	SONGS DUO	0.1	0.08	0.071	0.075			0.075	0.077				0.076	0.079
SANDIEGO	AVOCADO	69	SONGS DUO	0.1	0.081	0.072	0.075			0.075	0.077				0.076	0.079
SANDIEGO	B	69	SONGS DUO	0.1	0.092	0.073	0.077			0.087	0.078				0.087	0.081
SANDIEGO	B TP	69	SONGS DUO	0.1	0.093	0.073	0.078			0.087	0.079				0.087	0.082
SANDIEGO	BARRETT	69	SONGS DUO	0.1	0.087	0.068	0.073			0.08	0.077				0.082	0.075
SANDIEGO	BARRETTP	69	SONGS DUO	0.1	0.09	0.071	0.075			0.084	0.079				0.085	0.078
SANDIEGO	BATIQTOS	138	SONGS DUO	0.1	0.067	0.067	0.071			0.053	0.072				0.053	0.075
SANDIEGO	BATIQTP	138	SONGS DUO	0.1	0.067	0.067	0.071			0.053	0.072				0.053	0.075
SANDIEGO	BERNARDO	69	SONGS DUO	0.1	0.078	0.063	0.067			0.073	0.068				0.073	0.07
SANDIEGO	BERNDOTP	69	SONGS DUO	0.1	0.078	0.064	0.068			0.073	0.068				0.073	0.071
SANDIEGO	BLDCRKTP	69	SONGS DUO	0.1	0.088	0.07	0.074			0.082	0.077				0.083	0.077
SANDIEGO	BOLDRCRK	69	SONGS DUO	0.1	0.088	0.07	0.074			0.082	0.077				0.083	0.077
SANDIEGO	BOLVRDTP	69	SONGS DUO	0.1	0.078	0.061	0.066			0.072	0.07				0.074	0.067
SANDIEGO	BORDER	69	SONGS DUO	0.1	0.105	0.082	0.087			0.099	0.088				0.099	0.091
SANDIEGO	BORDERTP	69	SONGS DUO	0.1	0.105	0.082	0.086			0.099	0.088				0.099	0.091
SANDIEGO	BORREGO	69	SONGS DUO	0.1	0.103	0.083	0.087			0.097	0.091				0.095	0.092
SANDIEGO	BOULEVRD	69	SONGS DUO	0.1	0.072	0.057	0.061			0.066	0.066				0.069	0.061
SANDIEGO	CABRILLO	69	SONGS DUO	0.1	0.086	0.069	0.073			0.081	0.074				0.081	0.077
SANDIEGO	CABRLNVY	69	SONGS DUO	0.1	0.086	0.069	0.073			0.081	0.074				0.081	0.077
SANDIEGO	CALAVRTP	138	SONGS DUO	0.1	0.066	0.068	0.072			0.052	0.073				0.053	0.075
SANDIEGO	CALPK_BD	69	SONGS DUO	0.1	0.105	0.082	0.087			0.099	0.088				0.099	0.091
SANDIEGO	CALPK_EC	69	SONGS DUO	0.1	0.101	0.079	0.083			0.094	0.086				0.095	0.088
SANDIEGO	CALPK_ES	69	SONGS DUO	0.1	0.068	0.057	0.06			0.063	0.061				0.064	0.063
SANDIEGO	CAMERON	69	SONGS DUO	0.1	0.081	0.064	0.068			0.075	0.073				0.077	0.069
SANDIEGO	CAMPOGEN	69	SONGS DUO	0.1	0.071	0.056	0.06			0.065	0.066				0.068	0.06
SANDIEGO	CANNON	138	SONGS DUO	0.1	0.064	0.068	0.071				0.072					0.075
SANDIEGO	CAPSTRNO	138	SONGS DUO	0.1	0.082	0.074	0.077			0.079	0.079				0.081	0.081
SANDIEGO	CARLTHTP	138	SONGS DUO	0.1	0.084	0.066	0.07			0.078	0.071				0.078	0.073
SANDIEGO	CARLTNHS	138	SONGS DUO	0.1	0.084	0.067	0.071			0.078	0.071				0.078	0.074
SANDIEGO	CENTRALX	230	SONGS DUO	0.1	0.083	0.062	0.065			0.079	0.065				0.079	0.069
SANDIEGO	CENTRALX	500	SONGS DUO	0.1	0.088	0.067	0.07			0.085	0.07				0.084	0.075
SANDIEGO	CENTRLMP	500	SONGS DUO	0.1	0.088	0.065	0.069			0.084	0.068				0.084	0.073
SANDIEGO	CHCARITA	138	SONGS DUO	0.1	0.076	0.064	0.068			0.067	0.068				0.068	0.071
SANDIEGO	CHOLLAS	69	SONGS DUO	0.1	0.103	0.081	0.085			0.097	0.087				0.097	0.09
SANDIEGO	CLAIRMNT	69	SONGS DUO	0.1	0.089	0.072	0.076			0.083	0.077				0.084	0.08
SANDIEGO	CLARMTTP	69	SONGS DUO	0.1	0.089	0.072	0.076			0.083	0.077				0.083	0.08
SANDIEGO	CORONADO	69	SONGS DUO	0.1	0.093	0.073	0.078			0.087	0.079				0.087	0.082
SANDIEGO	CREELMAN	69	SONGS DUO	0.1	0.089	0.069	0.074			0.084	0.076				0.084	0.077
SANDIEGO	CRESTWD	69	SONGS DUO	0.1	0.072	0.057	0.061			0.066	0.066				0.068	0.061

ENPEX IFAS, Delta Voltage Drop Results

Category C, Two or more element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteri	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	CRSTNTS	69	SONGS DUO	0.1	0.084	0.077	0.079			0.079	0.082				0.081	0.084
SANDIEGO	DEL MAR	69	SONGS DUO	0.1	0.084	0.069	0.073			0.078	0.074				0.078	0.077
SANDIEGO	DELMARTP	69	SONGS DUO	0.1	0.085	0.07	0.074			0.078	0.074				0.078	0.078
SANDIEGO	DESCANSO	69	SONGS DUO	0.1	0.087	0.069	0.073			0.081	0.077				0.082	0.075
SANDIEGO	DIVISION	69	SONGS DUO	0.1	0.097	0.076	0.08			0.091	0.082				0.091	0.085
SANDIEGO	DOUBLET	69	SONGS DUO	0.1	0.085	0.07	0.074			0.078	0.075				0.078	0.078
SANDIEGO	DOUBLET	138	SONGS DUO	0.1	0.076	0.066	0.07			0.068	0.071				0.068	0.073
SANDIEGO	DOUBLTTP	69	SONGS DUO	0.1	0.085	0.07	0.074			0.078	0.075				0.078	0.078
SANDIEGO	DOUBLTTP	138	SONGS DUO	0.1	0.076	0.066	0.07			0.068	0.071				0.068	0.073
SANDIEGO	DUNHILL	69	SONGS DUO	0.1	0.085	0.07	0.074			0.078	0.075				0.078	0.078
SANDIEGO	DUNHILTP	69	SONGS DUO	0.1	0.085	0.07	0.074			0.078	0.075				0.078	0.078
SANDIEGO	EASTGATE	69	SONGS DUO	0.1	0.086	0.07	0.074			0.08	0.075				0.08	0.078
SANDIEGO	EL CAJON	69	SONGS DUO	0.1	0.101	0.079	0.083			0.094	0.086				0.095	0.088
SANDIEGO	ELLIOTT	69	SONGS DUO	0.1	0.09	0.071	0.075			0.084	0.076				0.084	0.079
SANDIEGO	ENCINA	138	SONGS DUO	0.1	0.064	0.068	0.071				0.072					0.075
SANDIEGO	ENCINA	230	SONGS DUO	0.1	0.073	0.065	0.068			0.069	0.07				0.07	0.072
SANDIEGO	ENCINATP	230	SONGS DUO	0.1	0.073	0.065	0.067			0.069	0.069				0.07	0.071
SANDIEGO	ENCNITAS	69	SONGS DUO	0.1	0.085	0.07	0.074			0.079	0.075				0.079	0.078
SANDIEGO	ESCNDIDO	69	SONGS DUO	0.1	0.068	0.057	0.06			0.063	0.061				0.064	0.063
SANDIEGO	ESCNDIDO	230	SONGS DUO	0.1	0.057		0.05			0.054	0.051				0.054	0.052
SANDIEGO	ESCNDO50	138	SONGS DUO	0.1	0.067	0.066	0.069			0.055	0.07				0.055	0.073
SANDIEGO	ESCO	69	SONGS DUO	0.1	0.07	0.058	0.061			0.065	0.062				0.065	0.064
SANDIEGO	F	69	SONGS DUO	0.1	0.09	0.072	0.076			0.084	0.077				0.084	0.08
SANDIEGO	FELCTATP	69	SONGS DUO	0.1	0.071	0.059	0.062			0.066	0.063				0.066	0.065
SANDIEGO	FELICITA	69	SONGS DUO	0.1	0.071	0.059	0.062			0.066	0.063				0.066	0.065
SANDIEGO	FENTON	69	SONGS DUO	0.1	0.086	0.069	0.073			0.08	0.074				0.08	0.077
SANDIEGO	FENTONTP	69	SONGS DUO	0.1	0.086	0.069	0.073			0.08	0.074				0.08	0.077
SANDIEGO	FRIARS	138	SONGS DUO	0.1	0.083	0.068	0.071			0.077	0.072				0.077	0.075
SANDIEGO	GARFIELD	69	SONGS DUO	0.1	0.099	0.078	0.082			0.093	0.085				0.093	0.087
SANDIEGO	GEN DYNM	69	SONGS DUO	0.1	0.09	0.072	0.077			0.084	0.078				0.085	0.08
SANDIEGO	GENDYNTP	69	SONGS DUO	0.1	0.09	0.072	0.076			0.084	0.078				0.085	0.08
SANDIEGO	GENESEE	69	SONGS DUO	0.1	0.085	0.07	0.074			0.079	0.075				0.079	0.078
SANDIEGO	GLENCLIF	69	SONGS DUO	0.1	0.082	0.064	0.069			0.075	0.073				0.077	0.07
SANDIEGO	GLNCLFTP	69	SONGS DUO	0.1	0.082	0.064	0.069			0.075	0.073				0.077	0.07
SANDIEGO	GOALLINE	69	SONGS DUO	0.1	0.07	0.058	0.061			0.065	0.062				0.065	0.064
SANDIEGO	GRANITE	69	SONGS DUO	0.1	0.101	0.079	0.084			0.095	0.087				0.096	0.088
SANDIEGO	GRANITTP	69	SONGS DUO	0.1	0.101	0.079	0.083			0.094	0.086				0.095	0.087
SANDIEGO	GRNT HLL	138	SONGS DUO	0.1	0.088	0.07	0.074			0.083	0.075				0.083	0.078
SANDIEGO	HORNO	69	SONGS DUO	0.1	0.083	0.075	0.078			0.078	0.08				0.079	0.083
SANDIEGO	HORNO TP	69	SONGS DUO	0.1	0.083	0.075	0.078			0.078	0.08				0.079	0.083
SANDIEGO	IMPRLBCH	69	SONGS DUO	0.1	0.104	0.081	0.086			0.097	0.087				0.097	0.09
SANDIEGO	IMPRLVLY	230	SONGS DUO	0.1	0.071	0.053	0.055			0.068	0.056				0.067	0.061
SANDIEGO	IMPRLVLY	500	SONGS DUO	0.1	0.083	0.063	0.066			0.079	0.066				0.078	0.072

ENPEX IFAS, Delta Voltage Drop Results

Category C, Two or more element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteri	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	INTB	230	SONGS DUO	0.1	0.071	0.053	0.055			0.068	0.056				0.067	0.061
SANDIEGO	IV-GEN	230	SONGS DUO	0.1	0.071	0.053	0.055			0.068	0.056				0.067	0.061
SANDIEGO	JAMACHA	69	SONGS DUO	0.1	0.104	0.081	0.086			0.098	0.088				0.098	0.09
SANDIEGO	JAP MESA	69	SONGS DUO	0.1	0.084	0.076	0.079			0.079	0.081				0.081	0.083
SANDIEGO	KEAMDGT2	69	SONGS DUO	0.1	0.09	0.072	0.076			0.084	0.078				0.085	0.08
SANDIEGO	KEAMDGT3	69	SONGS DUO	0.1	0.09	0.072	0.076			0.084	0.078				0.085	0.08
SANDIEGO	KEARNY	69	SONGS DUO	0.1	0.09	0.072	0.076			0.084	0.078				0.085	0.08
SANDIEGO	KETTNER	69	SONGS DUO	0.1	0.091	0.072	0.076			0.085	0.077				0.085	0.08
SANDIEGO	KYOCERA	69	SONGS DUO	0.1	0.09	0.072	0.077			0.084	0.078				0.085	0.08
SANDIEGO	KYOCRATP	69	SONGS DUO	0.1	0.09	0.072	0.077			0.084	0.078				0.085	0.08
SANDIEGO	LA JOLLA	69	SONGS DUO	0.1	0.088	0.071	0.075			0.082	0.076				0.082	0.079
SANDIEGO	LAGNA NL	138	SONGS DUO	0.1	0.082	0.074	0.077			0.079	0.079				0.081	0.081
SANDIEGO	LASPULGS	69	SONGS DUO	0.1	0.083	0.075	0.078			0.077	0.08				0.079	0.082
SANDIEGO	LILAC	69	SONGS DUO	0.1	0.075	0.064	0.067			0.07	0.068				0.07	0.07
SANDIEGO	Lkhodges	69	SONGS DUO	0.1	0.074	0.061	0.065			0.069	0.066				0.07	0.068
SANDIEGO	LOSCOCHS	69	SONGS DUO	0.1	0.096	0.075	0.08			0.09	0.083				0.091	0.083
SANDIEGO	LOSCOCHS	138	SONGS DUO	0.1	0.092	0.072	0.076			0.086	0.078				0.086	0.08
SANDIEGO	LOVELAND	69	SONGS DUO	0.1	0.094	0.074	0.078			0.088	0.082				0.089	0.081
SANDIEGO	LRKSP_BD	69	SONGS DUO	0.1	0.105	0.082	0.087			0.099	0.088				0.099	0.091
SANDIEGO	MAIN ST	69	SONGS DUO	0.1	0.093	0.074	0.078			0.088	0.079				0.088	0.082
SANDIEGO	MARGARTA	138	SONGS DUO	0.1	0.081	0.074	0.076			0.078	0.079				0.081	0.081
SANDIEGO	MDWLRKTP	138	SONGS DUO	0.1	0.069	0.067	0.071			0.055	0.072				0.055	0.074
SANDIEGO	MELROSE	69	SONGS DUO	0.1	0.08	0.071	0.074			0.074	0.076				0.075	0.078
SANDIEGO	MELRSETP	69	SONGS DUO	0.1	0.078	0.07	0.073			0.073	0.074				0.074	0.077
SANDIEGO	MESA RIM	69	SONGS DUO	0.1	0.086	0.069	0.074			0.08	0.074				0.08	0.077
SANDIEGO	MESAHGTS	69	SONGS DUO	0.1	0.091	0.072	0.077			0.085	0.078				0.085	0.08
SANDIEGO	MIGUEL	69	SONGS DUO	0.1	0.105	0.081	0.086			0.098	0.087				0.098	0.09
SANDIEGO	MIGUEL	138	SONGS DUO	0.1	0.095	0.073	0.077			0.09	0.078				0.09	0.082
SANDIEGO	MIGUEL	230	SONGS DUO	0.1	0.09	0.068	0.072			0.085	0.072				0.085	0.076
SANDIEGO	MIGUEL	500	SONGS DUO	0.1	0.091	0.07	0.073			0.087	0.073				0.086	0.078
SANDIEGO	MIGUELMP	500	SONGS DUO	0.1	0.09	0.069	0.072			0.086	0.073				0.086	0.076
SANDIEGO	MIGUELTP	69	SONGS DUO	0.1	0.104	0.081	0.085			0.097	0.087				0.098	0.09
SANDIEGO	MIRAMAR	69	SONGS DUO	0.1	0.086	0.069	0.073			0.08	0.073				0.08	0.076
SANDIEGO	MIRAMAR1	69	SONGS DUO	0.1	0.086	0.069	0.073			0.08	0.074				0.08	0.077
SANDIEGO	MIRAMRTP	69	SONGS DUO	0.1	0.086	0.07	0.074			0.079	0.075				0.079	0.078
SANDIEGO	MISSION	69	SONGS DUO	0.1	0.09	0.072	0.076			0.084	0.077				0.084	0.08
SANDIEGO	MISSION	138	SONGS DUO	0.1	0.084	0.068	0.072			0.078	0.072				0.079	0.075
SANDIEGO	MISSION	230	SONGS DUO	0.1	0.08	0.064	0.068			0.075	0.068				0.075	0.071
SANDIEGO	MNSRATTP	69	SONGS DUO	0.1	0.08	0.071	0.075			0.075	0.076				0.076	0.079
SANDIEGO	MONSRATE	69	SONGS DUO	0.1	0.08	0.071	0.075			0.075	0.076				0.076	0.079
SANDIEGO	MONTGMRY	69	SONGS DUO	0.1	0.103	0.08	0.085			0.096	0.086				0.097	0.089
SANDIEGO	MONTGYTP	69	SONGS DUO	0.1	0.103	0.08	0.085			0.096	0.086				0.096	0.089
SANDIEGO	MORHILTP	69	SONGS DUO	0.1	0.08	0.072	0.075			0.075	0.077				0.076	0.079

ENPEX IFAS, Delta Voltage Drop Results

Category C, Two or more element contingency
Delta Voltage Drop
SDG&E Area

<----------Post Sunrise Power Link---------->
<----------Peak Load 5038 MW---------->

					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%	
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post
Area	Busname	Bus k	Contingency	Criteri	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j
SANDIEGO	MOROHILL	69	SONGS DUO	0.1	0.08	0.072	0.075			0.075	0.077				0.076	0.079
SANDIEGO	MURRAY	69	SONGS DUO	0.1	0.097	0.076	0.081			0.091	0.083				0.091	0.085
SANDIEGO	N.GILA	500	SONGS DUO	0.1	0.07	0.057	0.059			0.068	0.059				0.067	0.063
SANDIEGO	NARROWS	69	SONGS DUO	0.1	0.099	0.079	0.084			0.093	0.087				0.092	0.088
SANDIEGO	NATNLCTY	69	SONGS DUO	0.1	0.1	0.078	0.083			0.094	0.084				0.094	0.087
SANDIEGO	NAVSTMTR	69	SONGS DUO	0.1	0.099	0.078	0.082			0.093	0.083				0.093	0.086
SANDIEGO	NOISLMTR	69	SONGS DUO	0.1	0.093	0.073	0.078			0.087	0.079				0.087	0.082
SANDIEGO	NORTHCTY	138	SONGS DUO	0.1	0.074	0.067	0.07			0.064	0.071				0.064	0.074
SANDIEGO	OCEANSDE	69	SONGS DUO	0.1	0.081	0.073	0.076			0.075	0.078				0.076	0.08
SANDIEGO	OCNSDETP	69	SONGS DUO	0.1	0.081	0.073	0.076			0.075	0.078				0.076	0.08
SANDIEGO	OLD TOWN	69	SONGS DUO	0.1	0.086	0.068	0.072			0.08	0.073				0.08	0.076
SANDIEGO	OLD TOWN	230	SONGS DUO	0.1	0.077	0.062	0.065			0.072	0.066				0.073	0.069
SANDIEGO	OLDTWNTP	230	SONGS DUO	0.1	0.077	0.062	0.065			0.072	0.066				0.072	0.069
SANDIEGO	OMWD	69	SONGS DUO	0.1	0.073	0.06	0.063			0.067	0.064				0.068	0.066
SANDIEGO	OTAY	69	SONGS DUO	0.1	0.104	0.081	0.086			0.097	0.087				0.097	0.09
SANDIEGO	OTAY TP	69	SONGS DUO	0.1	0.104	0.081	0.086			0.097	0.087				0.097	0.09
SANDIEGO	OTAYLAKE	69	SONGS DUO	0.1	0.105	0.082	0.086			0.099	0.088				0.099	0.091
SANDIEGO	OTAYLKTP	69	SONGS DUO	0.1	0.104	0.081	0.086			0.098	0.087				0.098	0.09
SANDIEGO	PACFCBCH	69	SONGS DUO	0.1	0.087	0.07	0.074			0.081	0.075				0.081	0.078
SANDIEGO	PALA	69	SONGS DUO	0.1	0.077	0.067	0.07			0.072	0.072				0.073	0.074
SANDIEGO	PALOMAR	138	SONGS DUO	0.1	0.066	0.068	0.072			0.051	0.072				0.051	0.075
SANDIEGO	PARADISE	69	SONGS DUO	0.1	0.104	0.081	0.086			0.098	0.087				0.098	0.09
SANDIEGO	PEN	230	SONGS DUO	0.1	0.057					0.053	0.051				0.054	0.052
SANDIEGO	PENDLETN	69	SONGS DUO	0.1	0.081	0.072	0.075			0.075	0.077				0.076	0.079
SANDIEGO	PENSQTOS	69	SONGS DUO	0.1	0.085	0.07	0.074			0.078	0.074				0.078	0.078
SANDIEGO	PENSQTOS	138	SONGS DUO	0.1	0.076	0.066	0.07			0.067	0.071				0.068	0.073
SANDIEGO	PENSQTOS	230	SONGS DUO	0.1	0.076	0.061	0.065			0.071	0.065				0.071	0.068
SANDIEGO	PICO	138	SONGS DUO	0.1	0.081	0.073	0.076			0.078	0.078				0.08	0.08
SANDIEGO	POINTLMA	69	SONGS DUO	0.1	0.086	0.069	0.073			0.081	0.073				0.081	0.076
SANDIEGO	POMERADO	69	SONGS DUO	0.1	0.084	0.064	0.068			0.078	0.069				0.079	0.071
SANDIEGO	POWAY	69	SONGS DUO	0.1	0.08	0.063	0.067			0.075	0.068				0.075	0.07
SANDIEGO	PRCTRVLY	138	SONGS DUO	0.1	0.095	0.074	0.078			0.09	0.078				0.09	0.082
SANDIEGO	R.CARMEL	69	SONGS DUO	0.1	0.08	0.063	0.067			0.074	0.068				0.075	0.07
SANDIEGO	R.SNTAFE	69	SONGS DUO	0.1	0.081	0.066	0.07			0.075	0.071				0.075	0.074
SANDIEGO	R.SNTATP	69	SONGS DUO	0.1	0.084	0.069	0.073			0.078	0.074				0.078	0.077
SANDIEGO	RAMCO_ES	69	SONGS DUO	0.1	0.068	0.057	0.06			0.063	0.061				0.064	0.063
SANDIEGO	RAMCO_OY	69	SONGS DUO	0.1	0.104	0.081	0.086			0.097	0.087				0.097	0.09
SANDIEGO	RINCON	69	SONGS DUO	0.1	0.077	0.064	0.068			0.071	0.069				0.072	0.071
SANDIEGO	ROSCYNTP	69	SONGS DUO	0.1	0.088	0.071	0.075			0.082	0.076				0.082	0.079
SANDIEGO	ROSE CYN	69	SONGS DUO	0.1	0.088	0.071	0.075			0.082	0.076				0.082	0.079
SANDIEGO	SAMPSON	69	SONGS DUO	0.1	0.093	0.074	0.078			0.088	0.079				0.088	0.082
SANDIEGO	SANLUSRY	69	SONGS DUO	0.1	0.08	0.072	0.075			0.074	0.077				0.075	0.079
SANDIEGO	SANLUSRY	138	SONGS DUO	0.1	0.069	0.069	0.072			0.056	0.074				0.056	0.076

ENPEX IFAS, Delta Voltage Drop Results

Category C, Two or more element contingency
Delta Voltage Drop
SDG&E Area

					<----------Post Sunrise Power Link---------->												
					<----------Peak Load 5038 MW---------->												
					Base Load/Import			Load +5%		Load +2-1/2%		Import +5%			Import +2-1/2%		
					Pre	Post	Post Mit	Pre	Post	Pre	Post	Pre	Pre Mit	Post	Pre	Post	
Area	Busname	Bus k	Contingency	Criteri	case_a	case_b	case_b_mit	case_c	case_d	case_e	case_f	case_g	case_g_mit 4	case_h	case_i	case_j	
SANDIEGO	SANLUSRY	230	SONGS DUO	0.1	0.079	0.07	0.073			0.075	0.075				0.077	0.077	
SANDIEGO	SANMATEO	138	SONGS DUO	0.1	0.081	0.073	0.076			0.078	0.078				0.08	0.08	
SANDIEGO	SANMRCOS	69	SONGS DUO	0.1	0.073	0.063	0.066			0.068	0.068				0.069	0.07	
SANDIEGO	SANTEE	138	SONGS DUO	0.1	0.088	0.069	0.073			0.082	0.074				0.082	0.077	
SANDIEGO	SANTYSBL	69	SONGS DUO	0.1	0.089	0.07	0.075			0.083	0.077				0.084	0.078	
SANDIEGO	SANYSDRO	69	SONGS DUO	0.1	0.104	0.081	0.086			0.098	0.087				0.098	0.091	
SANDIEGO	SCRIPPS	69	SONGS DUO	0.1	0.086	0.068	0.072			0.08	0.073				0.08	0.075	
SANDIEGO	SHADOWR	138	SONGS DUO	0.1	0.067	0.068	0.072			0.053	0.073				0.054	0.075	
SANDIEGO	SILVERGT	230	SONGS DUO	0.1	0.074	0.059	0.063			0.069	0.063				0.069	0.066	
SANDIEGO	SOUTHBAY	69	SONGS DUO	0.1	0.103	0.08	0.085			0.096	0.086				0.097	0.089	
SANDIEGO	SOUTHBAY	138	SONGS DUO	0.1	0.093	0.073	0.077			0.087	0.078				0.087	0.081	
SANDIEGO	SPRNGVLY	69	SONGS DUO	0.1	0.104	0.081	0.086			0.098	0.088				0.098	0.09	
SANDIEGO	STREAMVW	69	SONGS DUO	0.1	0.102	0.08	0.085			0.096	0.086				0.096	0.089	
SANDIEGO	STUART	69	SONGS DUO	0.1	0.082	0.074	0.077			0.076	0.079				0.077	0.081	
SANDIEGO	STUARTTP	69	SONGS DUO	0.1	0.082	0.074	0.077			0.076	0.079				0.077	0.081	
SANDIEGO	SUNYSDTP	69	SONGS DUO	0.1	0.104	0.081	0.085			0.097	0.087				0.098	0.09	
SANDIEGO	SUNYSIDE	69	SONGS DUO	0.1	0.104	0.081	0.085			0.097	0.087				0.098	0.09	
SANDIEGO	SWEETWTR	69	SONGS DUO	0.1	0.102	0.08	0.084			0.095	0.085				0.096	0.088	
SANDIEGO	SWTWTRTP	69	SONGS DUO	0.1	0.1	0.078	0.083			0.094	0.084				0.094	0.087	
SANDIEGO	SXCC	230	SONGS DUO	0.1			0.051									0.052	
SANDIEGO	SYCAMORE	69	SONGS DUO	0.1	0.084	0.064	0.068			0.079	0.069				0.079	0.071	
SANDIEGO	SYCAMORE	138	SONGS DUO	0.1	0.08	0.062	0.066			0.073	0.066				0.073	0.068	
SANDIEGO	SYCAMORE	230	SONGS DUO	0.1	0.075	0.052	0.056			0.071	0.055				0.071	0.058	
SANDIEGO	TALEGA	69	SONGS DUO	0.1	0.084	0.077	0.079			0.079	0.082				0.081	0.084	
SANDIEGO	TALEGA	138	SONGS DUO	0.1	0.08	0.073	0.075			0.077	0.078				0.08	0.08	
SANDIEGO	TALEGA	230	SONGS DUO	0.1	0.083	0.076	0.078			0.08	0.081				0.083	0.083	
SANDIEGO	TALEGATP	69	SONGS DUO	0.1	0.084	0.077	0.079			0.079	0.082				0.081	0.084	
SANDIEGO	TELECYN	138	SONGS DUO	0.1	0.095	0.074	0.078			0.09	0.078				0.09	0.082	
SANDIEGO	TOREYPNS	69	SONGS DUO	0.1	0.085	0.07	0.074			0.079	0.075				0.078	0.078	
SANDIEGO	TRABUCO	138	SONGS DUO	0.1	0.082	0.074	0.077			0.079	0.079				0.081	0.081	
SANDIEGO	UCM	69	SONGS DUO	0.1	0.085	0.07	0.074			0.079	0.075				0.079	0.078	
SANDIEGO	URBAN	69	SONGS DUO	0.1	0.093	0.073	0.078			0.087	0.079				0.087	0.082	
SANDIEGO	VALCNTR	69	SONGS DUO	0.1	0.074	0.062	0.065			0.069	0.067				0.07	0.068	
SANDIEGO	WABASH	69	SONGS DUO	0.1	0.1	0.079	0.083			0.094	0.085				0.094	0.088	
SANDIEGO	WARCYNTP	69	SONGS DUO	0.1	0.078	0.062	0.066			0.072	0.067				0.073	0.069	
SANDIEGO	WARENCYN	69	SONGS DUO	0.1	0.078	0.062	0.066			0.072	0.067				0.073	0.069	
SANDIEGO	WARNERS	69	SONGS DUO	0.1	0.088	0.071	0.075			0.082	0.078				0.083	0.079	

Appendix M

Definitions

Disclaimer
All information contained in this list was provided for discussion and information purposes only and provided "as is" without representation or warranty of any kind, including without limitation, accuracy, completeness or appropriateness for any particular purpose. SDG&E and CAISO assume no responsibility for the consequences of any errors or omissions. All or part of this information may revised or withdraw at any time without notice.

Definitions:

Term	Definition
Applicable Reliability Criteria	The reliability standards established by NERC, WECC, and Local Reliability Criteria as amended from time to time, including any requirements of the NRC.
CAISO	The California Independent System Operator Corporation, a state chartered, nonprofit corporation that operates the transmission facilities of all Participating TOs and dispatches certain Generating Units and Loads.
CAISO Tariff	The California Independent System Operator Corporation Operating Agreement and Tariff, dated March 31, 1997, as it may be modified from time to time.
Congestion	A characteristic of the transmission system produced by a binding constraint to the optimum economic dispatch to meet demand such that the LMP, exclusive of Marginal Cost of Losses, at different locations of the transmission system not equal.
Congestion Management	The alleviation of Congestion in accordance with Applicable CAISO procedures, the CAISO Tariff, and Good Utility Practice.
Constraints	Physical and operational limitations on the transfer of electrical power through transmission facilities.
Contingency	A potential Outage that is unexpected, viewed as possible or eventually probable, which is taken into account when considering approval of other requested

Term	Definition
	Outages or while operating the CAISO Control Area.
Control Area (CA)	An electric power system (or combination of electric power systems) to which a common AGC scheme is applied in order to: i) match, at all times, the power output of the Generating Units within the electric power system(s), plus the Energy purchased from entities outside the electric power system(s), minus Energy sold to entities outside the electric power system, with the Demand within the electric power system(s); ii) maintain scheduled interchange with other Control Areas, within the limits of Good Utility Practice; iii) maintain the frequency of the electric power system(s) within reasonable limits in accordance with Good Utility Practice; and iv) provide sufficient generating capacity to maintain operating reserves in accordance with Good Utility Practice.
Delivery Network Upgrades	Transmission facilities at or beyond the Point of Interconnection, other than Reliability Network Upgrades, identified in the Interconnection Studies to relieve constraints on the CAISO Controlled Grid.
Demand	The instantaneous amount of Power that is delivered to Loads and Scheduling Points by Generation, transmission or distribution facilities. It is the product of voltage and the in-phase component of alternating current measured in units of watts or standard multiples thereof, e.g., 1,000W=1kW, 1,000kW=1MW, etc.
Dispatch	The activity of controlling an integrated electric system to: i) assign specific Generating Units and other sources of supply to effect the supply to meet the relevant area Demand taken as Load rises or falls; ii) control operations and maintenance of high voltage lines, substations, and equipment, including administration of safety procedures; iii) operate interconnections; iv) manage Energy transactions with other

Term	Definition
	interconnected Control Areas; and v) curtail Demand.
Distribution System	The distribution assets of an IOU or Local Publicly Owned Electric Utility.
Distribution Upgrades	The additions, modifications, and upgrades to the Participating TO's electric systems that are not part of the CAISO Controlled Grid. Distribution Upgrades do not include Interconnection Facilities.
Facility Owner	An entity owning transmission, Generation, or distribution facilities connected to the CAISO Controlled Grid.
Forced Outage	An Outage for which sufficient notice cannot be given to allow the Outage to be factored into the Day-Ahead Market, HASP or RTM bidding processes.
Generating Facility	An Interconnection Customer's Generating Unit(s) used for the production of electricity identified in the Interconnection Request, but shall not include the Interconnection Customer's Interconnection Facilities.
Generating Facility Capacity	The capacity of the Generating Facility and the aggregate capacity of the Generating Facility where it includes multiple energy production devices.
Generating Unit	An individual electric generator and its associated plant and apparatus whose electrical output is capable of being separately identified and metered or a Physical Scheduling Plant that, in either case, is: (a) located within the CAISO Control Area; (b) connected to the CAISO Controlled Grid, either directly or via interconnected transmission, or distribution facilities; and (c) that is capable of producing and delivering net Energy (Energy in excess of a generating station's internal power requirements).
Generation	Energy delivered from a Generating Unit.
Generation Distribution Factor (GDF)	The fraction of the Bid, Schedule, or Dispatch of a Physical Scheduling Plant distributed at a Node.

Term	Definition
Generator	The seller of Energy or Ancillary Services produced by a Generating Unit.
Good Utility Practice	Any of the practices, methods, and acts engaged in or approved by a significant portion of the electric utility industry during the relevant time period, or any of the practices, methods, and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety, and expedition. Good Utility Practice is not intended to be any one of a number of the optimum practices, methods, or acts to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.
Interchange	Imports and exports between the CAISO Control Area and other Control Areas.
Interconnection Customer	Any entity, including a Participating TO or any of its Affiliates or subsidiaries, that proposes to interconnect its Generating Facility with the CAISO Controlled Grid.
Interconnection Customer's Interconnection Facilities	All facilities and equipment, as identified in Part A of the Standard Large Generator Interconnection Agreement, that are located between the Generating Facility and the Point of Change of Ownership, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Facility to the CAISO Controlled Grid. Interconnection Customer's Interconnection Facilities are sole use facilities.
Interconnection Facilities	The Participating TO's Interconnection Facilities and the Interconnection Customer's Interconnection Facilities. Collectively, Interconnection Facilities include all facilities and equipment between the Generating Facility and the Point of Interconnection, including any modification, additions or upgrades that

Term	Definition
	are necessary to physically and electrically interconnect the Generating Facility to the CAISO Controlled Grid. Interconnection Facilities are sole use facilities and shall not include Distribution Upgrades, Stand Alone Network Upgrades or Network Upgrades.
Interconnection Facilities Study	A study conducted by the Participating TO(s), CAISO, or a third party consultant for the Interconnection Customer to determine a list of facilities (including the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades), the cost of those facilities, and the time required to interconnect the Generating Facility with the CAISO Controlled Grid. The scope of the study is defined in Section 8 of the Standard Large Generator Interconnection Procedures.
Interconnection Feasibility Study	A preliminary evaluation conducted by the Participating TO(s), CAISO, or a third party consultant for the Interconnection Customer of the system impact and cost of interconnecting the Generating Facility to the CAISO Controlled Grid, the scope of which is described in Section 6 of the Standard Large Generator Interconnection Procedures.
Interconnection Request	An Interconnection Customer's request, in the form of Part 1 to the Standard Large Generator Interconnection Procedures, in accordance with Section 25.1 of the CAISO Tariff.
Interconnection Study	Any of the following studies: the Interconnection Feasibility Study, the Interconnection System Impact Study, and the Interconnection Facilities Study described in the Standard Large Generator Interconnection Procedures.
Interconnection System Impact Study	An engineering study conducted by the Participating TO(s), CAISO, or a third party consultant for the Interconnection Customer that evaluates the impact of the proposed interconnection on the safety and reliability of the CAISO Controlled Grid

Term	Definition
	and, if applicable, an Affected System. The study shall identify and detail the system impacts that would result if the Generating Facility were interconnected without project modifications or system modifications, focusing on the Adverse System Impacts identified in the Interconnection Feasibility Study, or to study potential impacts, including but not limited to those identified in the Scoping Meeting as described in the Standard Large Generator Interconnection Procedures.
IOU	An investor owned electric utility.
Large Generating Facility	A Generating Facility having a Generating Facility Capacity of more than 20 MW.
Load	An end-use device of an End-Use Customer that consumes power. Load should not be confused with Demand, which is the measure of power that a Load receives or requires.
Local Reliability Criteria	Reliability Criteria unique to the transmission systems of each of the Participating TOs established at the later of: (1) CAISO Operations Date, or (2) the date upon which a New Participating TO places its facilities under the control of the CAISO.
Loop Flow	Energy flow over a transmission system caused by parties external to that system.
Network Upgrades	The additions, modifications, and upgrades to the CAISO Controlled Grid required at or beyond the Point of Interconnection to accommodate the interconnection of the Large Generating Facility to the CAISO Controlled Grid. Network Upgrades shall consist of Delivery Network Upgrades and Reliability Network Upgrades.
Nomogram	A set of operating or scheduling rules which are used to ensure that simultaneous operating limits are respected, in order to meet NERC and WECC operating criteria.

Term	Definition
Participating Generator	A Generator or other seller of Energy or Ancillary Services through a Scheduling Coordinator over the CAISO Controlled Grid from a Generating Unit with a rated capacity of 1 MW or greater, or from a Generating Unit providing Ancillary Services and/or submitting Energy Bids through an aggregation arrangement approved by the CAISO, which has undertaken to be bound by the terms of the CAISO Tariff, in the case of a Generator through a Participating Generator Agreement.
Participating Load	An entity providing Curtailable Demand, which has undertaken in writing to comply with all applicable provisions of the CAISO Tariff, as they may be amended from time to time.
Point of Interconnection	The point, as set forth in Part A to the Standard Large Generator Interconnection Agreement, where the Interconnection Facilities connect to the CAISO Controlled Grid.
Power	The electrical work produced by a Generating Unit that is absorbed by the resistive components of Load or other network components, measured in units of watts or standard multiples thereof, e.g., 1,000 Watt = 1 kW; 1,000 kW = 1 MW, etc.
Power Flow Model	A network model used by the CAISO to model the voltages, power injections and power flows on the CAISO Controlled Grid and adjacent Control Areas.
Ramp Rate	The Bid component that indicates the operational ramp rate, Regulating ramp rate, and Operating Reserve ramp rate for a Generating Unit, and the Load drop rate and Load pick-up rate for Participating Loads, for which the Scheduling Coordinator is submitting Energy Bids or Ancillary Services Bids.
Real-Time (RT)	The period of time during the Operating Hour. Any time period during the twenty-four Operating Hours of any given day.
Real-Time Contingency	The mode of the Real-Time Dispatch that will be invoked when a transmission or

Term	Definition
Dispatch (RTCD)	generation contingency occurs and will include all Contingency Only Operating Reserves in the optimization.
Real-Time Dispatch (RTD)	The SCED and SCUC software used by the CAISO to determine which Ancillary Service and Imbalance Energy resources to Dispatch and to calculate LMPs.
Real-Time Economic Dispatch (RTED)	The mode of the Real-Time Dispatch that will optimally dispatch resources based on their Energy bids, excluding Contingency Only Operating Reserves except when needed to avoid an imminent system emergency.
Regulation	The service provided either by Generating Units certified by the CAISO as equipped and capable of responding to the CAISO's direct digital control signals, or by System Resources that have been certified by the CAISO as capable of delivering such service to the CAISO Control Area, in an upward and downward direction to match, on a real-time basis, Demand and resources, consistent with established NERC and WECC operating criteria. Regulation is used to control the power output of electric generators within a prescribed area in response to a change in system frequency, tie line loading, or the relation of these to each other so as to maintain the target system frequency and/or the established interchange with other areas within the predetermined limits. Regulation includes both the increase of output by a Generating Unit or System Resource ("Regulation Up") and the decrease in output by a Generating Unit or System Resource ("Regulation Down"). Regulation Up and Regulation Down are distinct capacity products, with separately stated requirements and ASMPs in each Settlement Period.
Reliability Criteria	Pre-established criteria that are to be followed in order to maintain desired performance of the CAISO Controlled Grid under contingency or steady state conditions.
Reliability	The transmission facilities at or beyond

Term	Definition
Network Upgrades	the Point of Interconnection necessary to interconnect a Large Generating Facility safely and reliably to the CAISO Controlled Grid, which would not have been necessary but for the interconnection of the Large Generating Facility, including Network Upgrades necessary to remedy short circuit or stability problems resulting from the interconnection of the Large Generating Facility to the CAISO Controlled Grid. Reliability Network Upgrades also include, consistent with WECC practice, the facilities necessary to mitigate any adverse impact the Large Generating Facility's interconnection may have on a path's WECC rating.
Remedial Action Schemes (RAS)	Protective systems that typically utilize a combination of conventional protective relays, computer-based processors, and telecommunications to accomplish rapid, automated response to unplanned power system events. Also, details of RAS logic and any special requirements for arming of RAS schemes, or changes in RAS programming, that may be required.
Service Area	An area in which an IOU or a Local Publicly Owned Electric Utility is obligated to provide electric service to End-Use Customers.
Standard Large Generator Interconnection Agreement (LGIA)	The form of interconnection agreement applicable to an Interconnection Request pertaining to a Large Generating Facility.
System Reliability	A measure of an electric system's ability to deliver uninterrupted service at the proper voltage and frequency.
Transmission Losses	Energy that is lost as a natural part of the process of transmitting Energy from Generation to Load delivered at the CAISO/Utility Distribution Company boundary or Control Area boundary.
Transmission Owner (TO)	An entity owning transmission facilities or having firm contractual rights to use transmission facilities.

Term	Definition
Unit Commitment	The process of determining which Generating Units will be committed (started) to meet Demand and provide Ancillary Services in the near future (e.g., the next Trading Day).