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April 4, 2000

VIA HAND DELIVERY

Hon. Debra Renner
Acting Secretary
New York State Public Service Commission
Three Empire State Plaza
Albany, New York 12223-1350

Re: Case 00-T-0409 - Application of Southern Energy Bowline, L.L.C. for a Certificate of Environmental Compatibility and Public Need for the Construction of a 345 kilovolt underground electric transmission line, approximately 1.7 miles in length, located in the Town of Haverstraw, Rockland County

Dear Secretary Renner:

On behalf of Southern Energy Bowline, L.L.C., enclosed for filing as part of the record in the above referenced proceeding are an original and 10 copies of the "Bowline Combined Cycle Plant: Stability, Relay Coordination and Auto-Reclosing Analysis." This analysis supplements the "Application of Southern Energy Bowline, L.L.C. Pursuant to Subpart 85 - 2 of the Public Service Commission's Rules of Procedure for a Certificate of Environmental Compatibility and Public Need for an Electric Transmission Line" filed with the New York State Public Service Commission on March 3, 2000 pursuant to Article VII of the New York Public Service Law. Also enclosed is an Affidavit of Service.

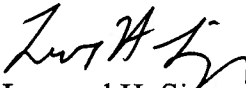
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MR. R. KENIG
MR. J. SMOLINSKY (w/ (encl))
MS. S. RABINOVICH

April 4, 2000
Page 2

Kindly date-stamp the additional copy of this letter and return it to our messenger.

Very truly yours,

COUCH WHITE, LLP



Leonard H. Singer

LHS\dap
Enclosure

cc: ALJ Walter T. Moynihan (via hand delivery w/enclosure)
Steven Blow, Esq (via hand delivery w/enclosure)
Meghan A. Purvee, Esq. (via hand delivery w/enclosure)
Parties on Attached List (via U.S. Mail w/enclosure)

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**ARTICLE VII
ELECTRIC SERVICE LIST**

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Hon. Francis Wassmer, Mayor
Village of Haverstraw
Village Hall
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Haverstraw, NY 10927

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NEW YORK STATE
PUBLIC SERVICE COMMISSION

IN THE MATTER

- of the -

In the Matter of the Application of Southern
Energy Bowline, L.L.C. Pursuant to Subpart
85-2 of the Public Service Commission's
Rules of Procedure for a Certificate of
Environmental Compatibility and Public Need
for an Electric Transmission Line

**Affidavit of
Service by Mail**

Case No. 00-T-0409

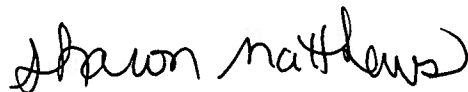
STATE OF NEW YORK)
) ss.:
COUNTY OF ALBANY)

Denise Poutre, being duly sworn, deposes and says that she is over the age of eighteen (18) years; that on April 4, 2000, she served the within Bowline Combined Cycle Plant: Stability, Relay Coordination and Auto-Reclosing Analysis upon the attached list by depositing true and correct copies of the Application in a post-paid wrapper in the official depository maintained and exclusively controlled by the United States Post Office at 540 Broadway, Albany, New York.



Denise Poutre

Sworn to before me this
4th day of April, 2000.



Notary Public

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SHARON MATTHEWS
Notary Public, State of New York
Qualified in Rensselaer County
No. 01MA5072657
Commission Expires July 30, 2001

Report

ORIGINAL

***Bowline Combined Cycle Plant:
Stability, Relay Coordination and
Auto-Reclosing Analysis***

Prepared for
Southern Energy Bowline, L.L.C.

Submitted by
Johnny R. Willis – Executive Consultant
Douglas R. Brown – Senior Consultant
Consulting Services Department

April 3, 2000

R16-00



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Introduction

This report summarizes preliminary analysis conducted by Power Technologies, Inc. (PTI) for Southern Energy Bowline, L.L.C. (Southern Energy) regarding the Bowline 3 electric power generating station. This new combined cycle plant will be located at the site of the existing Bowline 1 and 2 units in Haverstraw New York. It consists of one steam turbine and three combustion turbines and is expected to have a nominal 750 MW rating. It will be interconnected to the New York power system at a new 345 kV substation at Bowline. To accommodate the additional generation, Southern Energy plans to install an additional 345 kV underground transmission line to the West Haverstraw 345 kV substation.

The analysis conducted here has been guided by the requirements of the rules and regulations of the New York State Public Service Commission 16NYCRR Section 88.4 and Stipulation No. 4: Electric Transmission Facilities, which is included in Southern Energy's Article X application as part of Appendix A. This report provides a preliminary examination of the following aspects of the Stipulation:

Stability Analysis: Computer simulations are used to examine the effect on system dynamic response of the addition of the Bowline 3 plant. The system is simulated both with and without Bowline 3. In the assessment, proposed generation at Athens, Sithe (Ramapo), and ANP (Ramapo) is assumed to be in service in some scenarios.

Relay Coordination: Characteristics of additional protective relaying that will be added to accommodate Bowline 3, as well as how Bowline 3 may need to be considered in settings of existing protective relaying, are discussed.

Auto-Reclosing: The transmission system in the neighborhood of Bowline 3 currently uses high-speed auto-reclosing to improve the reliability of the transmission network. This report addresses the issue of auto-reclosing with respect to Bowline 3.

This preliminary analysis has been guided by discussions with Southern Energy and Con Edison and data provided by these companies, as well as PTI's experience in similar studies. The interconnection studies for the proposed Sithe (Ramapo) and ANP (Ramapo) plants have been reviewed, see Ref. 1 and 2.

PTI requested a stability data base from Con Edison as a basis for conducting this study. Con Edison provided PTI with a 2001 summer peak and winter peak data base. However, Stipulation No. 4 specifies a year 2003 data base for the analysis, so PTI then requested a 2003 data base. Con Edison informed PTI that a 2003 data base is unavailable. Because a 2003 data base was unavailable, PTI used the 2001 data base. However, PTI added the proposed generation at Athens, Sithe (Ramapo) and ANP (Ramapo) to the 2001 data base.

PTI also requested stability data for modeling the ANP (Ramapo) plant from Con Edison. Con Edison informed PTI that they are not able to release this data. PTI therefore modeled this plant using data from the Athens plant.

Summary of Results

2.1 Stability Analysis

The transient stability performance of the interconnected system was evaluated under peak and off-peak loading conditions for the following 2001 scenarios:

- Base case without Bowline 3.
- Base case with proposed plants at Athens, ANP and Sithe on-line.
- Base case with Bowline 3, Athens, ANP and Sithe on-line.
- Base case with Bowline 3, Athens, ANP and Sithe on-line with Bowline 3 displacing Indian Point 2.

Seven design criteria contingencies and three extreme criteria contingencies were simulated; system response is stable and positively damped for all of the applied contingencies. Stuck circuit breaker analysis shows Bowline 3 has a negligible impact on the critical clearing time at the Ramapo substation.

Comparison of simulations performed with and without Bowline 3 shows that, for the specific contingencies and system conditions studied, the transient stability performance of the bulk power transmission system is not degraded by the Bowline 3 plant.

In one scenario, post-contingency steady-state voltages at some western New York buses are below 90% following simultaneous loss of Bowline 1, 2, and 3 (totaling 1940 MW) assuming that phase shifting and LTC transformers regulate. If phase shifters are held fixed, voltages are above 90% at all buses 100 kV and above.

2.2 Relaying Considerations

Characteristics of additional protective relaying that will be added to accommodate Bowline 3 are discussed. Bowline 3 will be located at the site of the existing Bowline 1 and 2 units. A new Bowline 345 kV substation will be constructed and connected to the bulk power transmission system at West Haverstraw using two existing 345 kV underground cables and one new 345 kV underground cable. New protective relaying equipment will be required for the Bowline substation, the interconnection at West Haverstraw as well as any modifications to the West Haverstraw substation. Settings of relays in the nearby bulk power system will need to be reviewed.

2.3 Auto-Reclosing Considerations

The status and settings of auto-reclosing systems at the Ladentown 345 kV substation are not known. Feeders 77, 5018, W72 and 94 in the Ramapo substation are equipped with auto-reclosing systems. In order to determine the relay settings required for auto-reclosing, the NYS PSC requires a Shaft Torque Study for the project prior to commercial operation. A Shaft Torque Study will be submitted prior to commercial operation.

Data Base Preparation

3.1 Data provided by Consolidated Edison

Con Edison provided two PSS/E data bases for use in the stability analysis: a 2001 summer peak case (SUMMER01.12) and a 2001/02 winter peak (light load) case (PSCWLF.DAT). Con Edison also supplied a data base of dynamics model data (PSCDYDA.DAT) and code for user-written equipment models.

In addition to the data described above, Con Edison provided an IPLAN executable program file to set cross-trips on HVDC lines and PSS/E response files to convert load and net generation with load.

3.2 Data Provided by Southern Energy

3.2.1 Bowline 3 Plant Interconnection

With regard to the detail required for this study, Southern Energy offered the following plans to interconnect Bowline 3 with the Con Edison system:

- The existing substation at Bowline will be modified such that the existing units and Bowline 3 can be connected together at 345 kV.
- A third 345 kV underground line will be added from Bowline to West Haverstraw.

The proposed plant interconnection is shown in Appendix B.

3.2.2 Summary of Manufacturer Data

Manufacturer's data was provided by Southern Energy for the Bowline 3 combined cycle plant. A summary of the data is contained in Table 3.1.

Table 3.1: Bowline 3 Machine Data

Summary of Manufacturer's Information - SEI Bowline					
Configuration: Combined Cycle, One Steam Turbine and Three Combustion Turbines					
	Steam Turbine 1		Combustion Turbine 1, 2 & 3		
General	Required for Load Flow and Fault Analysis	Required for Stability Analysis	Required for Load Flow and Fault Analysis	Required for Stability Analysis	Comments
Maximum Gross MW Output of Unit	306 MW		186 MW		806 MW Total Gross
Total Plant Aux Power Requirements (MW, MVA)	to be provided		to be provided		
One Line Diagram of plant with Interconnection to Con Edison	provided		provided		
Step-Up Transformer					
Rated Voltage on HV side	345 kV		345 kV		assumed data
Rated Voltage on LV side	18 kV		18 kV		assumed data
MVA rating	240 MVA (OA)		130 MVA (OA)		assumed data
Taps HV side	2 @ +/- 2.5%		2 @ +/- 2.5%		assumed data
Taps LV side	none		none		assumed data
Z1 (positive sequence impedance), in pu on specified base	9% on OA Rating		9% on OA Rating		assumed data
X/R ratio	47		47		assumed data
Generator (p.u. reactances are on rated MVA, kV values)					
Manufacturer	GE		GE		
Rated MVA	405 MVA		216.2 MVA		
Rated kV	18 kV		18 kV		
Power factor	0.85 pf		0.85		
Reactive Capability Curves	provided		provided		
Open Circuit Saturation Curve		to be provided		provided	
V Curve		to be provided		provided	
H (turbine + generator inertia constant)		4.2 MWs/MVA		378.620 lbs-ft ²	assumed ST data
X2 (Unsatrated negative sequence reactance)	0.291 pu		0.207 pu		
X0 (Unsatrated zero sequence reactance)	0.172 pu		0.129 pu		
Xd (direct axis synchronous reactance (unsaturated))		2.472 pu		2.027 pu	
X'd (direct axis transient reactance (unsaturated))		0.424 pu		0.303 pu	
X''d (direct axis subtransient reactance (unsaturated))		0.303 pu		0.213 pu	
T'do (direct axis open-circuit transient time constant)		4.251 sec		3.797 sec	
T'do (direct axis open-circuit sub-transient time constant)		0.032 sec		0.033 sec	
Xq (quadrature axis synchronous reactance (unsaturated))		2.368 pu		1.947 pu	
X'q (quadrature axis transient reactance (unsaturated))		0.630 pu		0.450 pu	assumed CT data
X''q (quadrature axis subtransient reactance (unsaturated))		0.299 pu		0.206 pu	
T'qo (quadrature axis open-circuit transient time constant)		0.391 sec		0.429 sec	
T'qo (quadrature axis open-circuit sub-transient time constant)		0.064 sec		0.071 sec	
XL (stator leakage reactance)		0.250 pu		0.178 pu	
R1 (positive sequence armature resistance)	0.004 pu		0.003 pu		
R2 (Negative sequence armature resistance)	0.018 pu		0.015 pu		
R0 (Zero sequence armature resistance)	0.006 pu		0.006 pu		
Automatic Voltage Regulator and Excitation System					
Type (e.g., static, brushless, etc.)		EX2000 bus-fed		EX2000 bus-fed	
Model		IEEE ST4B		IEEE ST4B	
Parameters		provided		provided	
Power System Stabilizer					
Model					
Parameters					
Turbine and Governor					
Model		Steam (PSS/E TGOV1)		Gas (PSS/E GAST2A)	
Parameters		provided		provided	
Miscellaneous					
Out-Of Step Relaying					

* Stability analysis has not indicated a need for power system stabilizers or out-of-step relaying

Detailed information on the Bowline 3 plant has been included in PTI Report R9-2000, previously prepared for Southern Energy (Ref. 4).

3.3 Power Flow Cases

Con Edison provided power flow cases for year 2001 summer peak and winter peak. Though the Stipulation specifies study of the year 2003 system (as in the power flow analysis of Reference 4), PTI was told by Con Edison that year 2003 cases suitable for use with the corresponding stability data base are unavailable at this time. Therefore, this preliminary analysis used the year 2001 cases with modifications required for this study.

3.3.1 Summer Peak Cases

Starting with the summer peak case provided by Con Edison (SUMMER01.12), the following changes were made to develop a new base case "DS1":

- 1) The system topology changes to add Bowline 3 discussed above were incorporated but left out-of-service.
- 2) The proposed units at Athens, Sithe (Ramapo) and ANP (Ramapo) were incorporated but left out-of-service.

Additional summer peak (heavy load) cases were constructed from case DS1 as summarized in Table 3.2 and Table 3.3 below.

Table 3.2: Summer Peak Cases - Dispatch

	Case DS1 * (MW)	Case DS2 ** (MW)	Case DS3 ** (MW)	Case DS4 ** (MW)
Athens	Off	1080	1080	1080
Sithe (Ramapo)	Off	857	857	857
ANP (Ramapo)	Off	1100	1100	1100
Bowline 1 & 2	448 & 500	570 & 570	570 & 570	570 & 570
Bowline 3	-	Off	806	806

* Case provided by Con Edison

** Case developed by PTI

Table 3.3: Summer Peak Cases - Transfers

	Case DS1 * (MW)	Case DS2 ** (MW)	Case DS3 ** (MW)	Case DS4 ** (MW)
UPNY - Con Ed	4332	5467	5473	6402
UPNY - SENY	4178	3733	2921	3735
Central East	2474	2608	2181	2606
Total East	4592	4567	3719	4569
NY - NE	124	1003	999	1004
NY - PJM	-820	-796	-813	-800
Moses South	978	978	531	978

* Case provided by Con Edison

** Case developed by PTI

One objective for the DS2 and DS3 cases was to keep on-line as much of the generation local to the Bowline area as possible, and this was done with the exception of Roseton 1 (426 MW) and Danskammer 3 (131 MW), which are off in these cases. Thus, both Indian Point 2 and Indian Point 3 are on in all three cases DS1, DS2, and DS3. Also, in developing DS2 and DS3, the output of Bowline 1 and Bowline 2 were increased to their maximum values.

Another objective was to increase transfer from upper New York into Con Edison. Generation was reduced in Con Edison by a reduction of Ravenswood 3 to its minimum value of 387 MW and Astoria 4 to its minimum value of 75 MW. Arthur Kill (335 MW) was turned off. This reduction was the maximum reduction in Con Edison that we were able to achieve without having problems with convergence of the load flow case.

Regarding the reduction in some New York transfer levels between cases DS2 (Bowline 3 off) and DS3 (Bowline 3 on), it did not seem possible to keep them the same unless another major unit in the area of Bowline was turned off. In case DS3 we chose to reduce the transfers by shutting off generation in northern and western New York (Moses and Kintigh) to accommodate Bowline 3. Note however, that we did keep transfers into Con Edison constant when developing cases DS2 and DS3.

The objective for the DS4 case was to maintain New York transfer levels from the DS2 case. This accomplished by turning off Indian Point 2 and turning on Danskammer 3 to accommodate Bowline 3. Note that this displacement increases flow on the Con Edison interface.

3.3.2 Winter Peak Cases

Starting with the winter peak case provided by Con Edison (PSCWLF.dat), the following changes were made to develop a new base case "DW1":

- The system topology changes to add Bowline 3 discussed above were incorporated but left out-of-service.
- The proposed units at Athens and ANP (Ramapo) were incorporated but left out-of-service.
- The proposed units at Sithe (Ramapo) were removed from service and replaced by increasing the output of on-line units in the NYPP to maximum values.

Additional winter peak (light load) cases were constructed from case DW1 as summarized in Table 3.4 and Table 3.5 below.

Table 3.4: Winter Peak Cases - Dispatches

	Case DW1 * (MW)	Case DW2 ** (MW)	Case DW3 ** (MW)	Case DW4 ** (MW)
Athens	Off	1080	1080	1080
Sithe (Ramapo)	Off	857	857	857
ANP (Ramapo)	Off	1100	1100	1100
Bowline 1 & 2	570 & Off	570 & Off	570 & Off	570 & Off
Bowline 3	-	Off	806	806

* Case provided by Con Edison

** Case developed by PTI

Table 3.5: Winter Peak Cases - Transfers

	Case DW1 * (MW)	Case DW2 ** (MW)	Case DW3 ** (MW)	Case DW4 ** (MW)
UPNY - Con Ed	3925	5148	5155	6108
UPNY - SENY	3328	3310	2619	3324
Central East	2458	2545	2127	2545
Total East	4922	4924	4088	4942
NY - NE	106	831	829	832
NY - PJM	-1308	-1307	-1266	-1324
Moses South	401	401	66	401

* Case provided by Con Edison

** Case developed by PTI

The objectives for cases DW2, DW3 and DW4 were similar to the objectives outlined for the summer peak case in Section 3.3.1. Note that in all winter cases, Bowline 2 is off-line.

3.4 Dynamics Models

The dynamics models incorporated the data provided by Con Edison and the Bowline 3 manufacturer's data provided by Southern Energy. Unavailability of data required the assumptions detailed below.

3.4.1 Bowline 3

The steam turbine output was assumed to be controlled by steam pressure and not the turbine governor. Thus, in the simulations, turbine mechanical power was assumed to be constant. This is a reasonable assumption for the time frame of the stability study (10 seconds after the disturbance). The inertia constant for the steam turbine-generator was assumed to be 4.2 MW-sec/MVA. Models for Bowline 3 are listed in Appendix C.

3.4.2 Proposed ANP Plant

Dynamics models for the proposed ANP plant were not included in the dynamics model data and were not publicly available from Con Edison. The ANP Article 10 Application shows the proposed combined-cycle plant will consist of four generators, four combustion turbines and four steam turbines configured in four single-shaft power trains.

The rated output of each ANP generator is similar to that of the CT generators at the proposed Athens plant; the ANP generators were modeled using the Athens generator and exciter data.

Models for ANP are listed in Appendix D.

Stability Analysis

4.1 Methodology

PTI's PSS/E (Power System Simulator, Revision 26) was used to conduct the stability analysis. The approach was to evaluate the transient stability performance of the interconnected system in the following scenarios:

- Bowline 3, Athens, ANP and Sithe off-line.
- Bowline 3 off-line with Athens, ANP and Sithe on-line.
- Bowline 3, Athens, ANP and Sithe on-line.
- Bowline 3, Athens, ANP and Sithe on-line with Bowline 3 displacing Indian Point 2.

These scenarios correspond to the power flow cases discussed in Section 3.3 and were evaluated under peak and off-peak conditions.

4.2 Contingencies Simulated

Design criteria contingencies and extreme contingencies were simulated to determine system response. The contingencies examined are divided into the following general categories by Stipulation No. 4:

Design Criteria Contingencies

- Loss of a single project generating unit for a three phase-to-ground fault.
- Loss of the entire project for a three phase-to-ground fault.
- Loss of a large adjacent generating complex for a three phase-to-ground fault.
- Loss of a single circuit for a three phase-to-ground fault.
- Loss of a tower for a three phase-to-ground fault.

Extreme Criteria Contingencies

- Loss of a transmission right-of-way for a three phase-to-ground fault.
 - Loss of all lines emanating from a bulk power station for a three phase-to-ground fault.
 - Stuck breaker (three-phase) following a three phase-to ground fault to determine the back-up breaker critical clearing time.
-

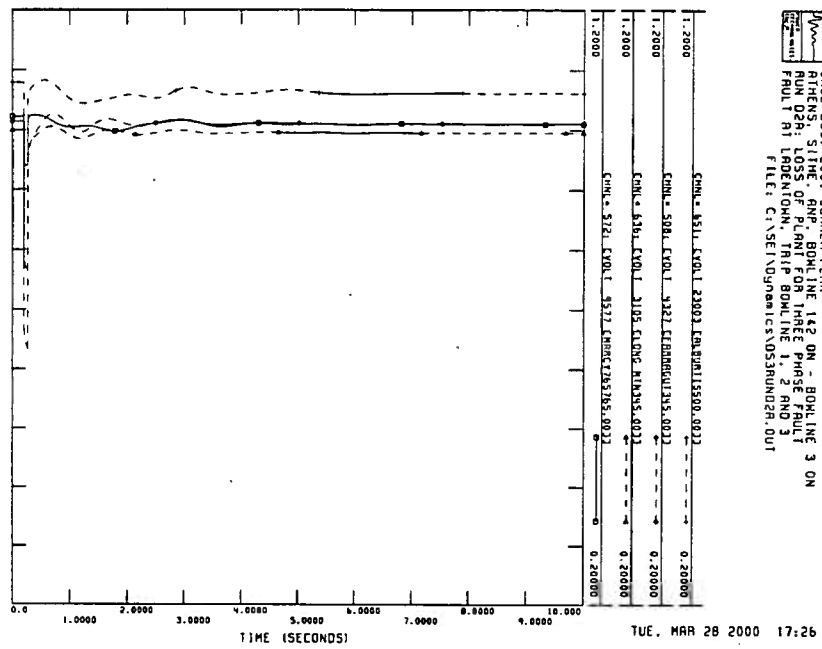
The contingencies actually simulated were chosen with regard to these categories. See Appendix E for a complete explanation of the contingencies analyzed.

4.3 Summary of Stability Simulations

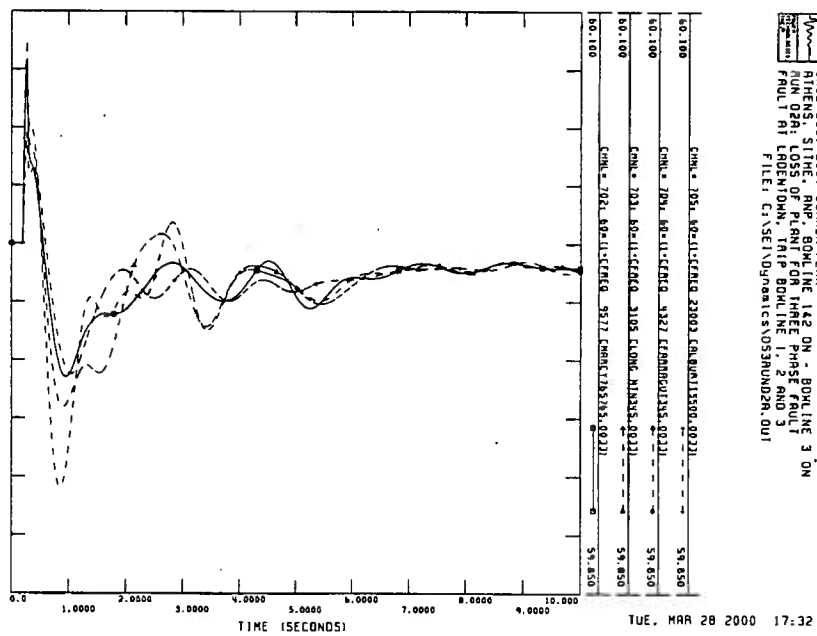
Appendix F contains stability plots illustrating system responses to the applied contingencies.

System response is stable and positively damped for all of the applied contingencies. The diagrams below illustrate system response to the loss of Bowline 1, 2 and 3 (contingency D2A) in summer peak case DS3 (Indian Point 2 on-line). The response is typical of the winter peak case DW3 and the cases with Indian Point 2 off-line (DS4 and DW4).

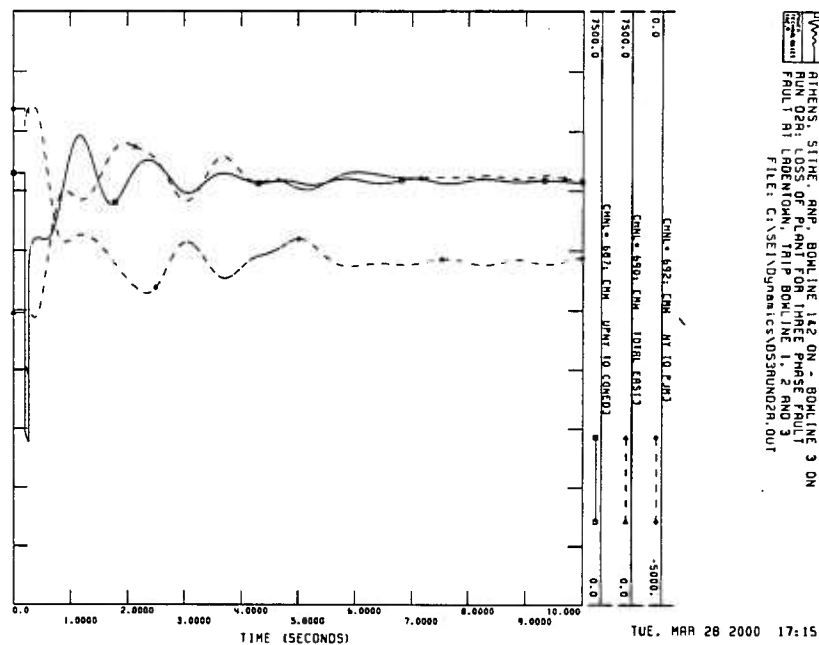
Figure 1 shows bus voltages at various buses in NY, NE and PJM areas, specifically the Marcy 765 kV, Long Mountain 345 kV, Farragut 345 kV and Alburtis 500 kV buses. Voltages recover quickly following clearance of the disturbance and reflect good damping performance of machine rotor angles. Figure 2 shows system frequencies at those same buses. The frequency at the Farragut 345 kV bus momentarily dips to 59.9 Hz after Bowline is tripped but system frequencies quickly settle to within 0.013 Hz of nominal. Figure 3 shows interface flows for the UPNY-ConEd, Total East and NY-PJM interfaces.



• Figure 1: Bus Voltages Following Loss of Bowline 1, 2 and 3



• Figure 2: Bus Frequencies following loss of Bowline 1, 2 and 3



• Figure 3: Interface Flows following loss of Bowline 1, 2 and 3

Referring to Figure 3, before loss of Bowline 3, the PJM to NY transfer is about 810 MW. Following loss of Bowline 1, 2 and 3 the PJM to NY transfer increases to about 2100 MW. Similarly, Total East transfer increases from about 3700 MW to about 5300 MW. Post-contingency flow on the UPNY-ConEd interface is not significantly affected by the end of the 10 second simulation.

A post-contingency power flow was created from the summer peak case with Indian Point 2 on-line (DS3) to look at line loading and system voltages after the loss of Bowline 1, 2 and 3. In the power flow, all loads are modeled as constant power, generator reactive power limits are enforced and system generation was scaled to replace the Bowline 1, 2 and 3 generation.

Flows and voltages were compared in three scenarios:

- 1) Before transformer load-tap changers (LTC) or phase angle regulators (PAR) operate
- 2) After transformers LTCs operate but before PARs operate
- 3) After transformer LTCs and PARs operate

Loading on branches in New York, New England and PJM was compared against long-term emergency ratings. Buses in these areas were also monitored for changes in voltage greater than 1½ % from pre-contingency levels.

Immediately after transients die out, and again after transformer LTC action, the increased transfer of power into New York does not result in any new overloads and no existing

overloads are aggravated by more than 2 %. PAR action causes an increase in flow through western New York resulting in the overloads summarized in Table 4.1:

Table 4.1: Post-Contingency Power Flow - Branch Overloads

Bus	Pre-Contingency Loading	Post-Contingency Overloads Following Loss of Bowline 1, 2, and 3		
		Loading Before Transformer Adjustment	Loading after LTC Adjustment	Loading after LTC and PAR Adjustment
Falconer-Jamestown #1 115 kV	131%	132%	132%	137%
Falconer-Jamestown #2 115 kV	118%	118%	118%	123%
Station 162-Station 158 115 kV	86%	89%	89%	110%

After system transients die out, all system voltages are within 2% of pre-contingency levels before transformer taps adjust to regulate voltage with the exception of the Watercure 345 kV bus. Buses with voltages less than 95% before LTC action are listed in Table 4.2. System voltages improve when transformer taps adjust with the exception of some buses in western New York.

Table 4.2: Post-Contingency Power Flow - Low Voltages

Bus	Pre-Contingency Voltage	Post-Contingency Voltages Following Loss of Bowline 1, 2, and 3		
		Voltage Before Transformer Adjustment	Voltage after LTC Adjustment	Voltage after LTC and PAR Adjustment
Astoria 138 kV	97.0%	95.0%	97.4%	97.6%
Hellgate 138 kV	96.8%	94.8%	97.2%	97.4%
Queensbridge 138 kV	96.9%	94.9%	97.3%	97.5%
Watercure 345 kV	96.5%	94.3%	93.0%	86.5%
Elm 230 kV	95.1%	94.5%	94.2%	90.0%
Gardenville 230 kV	95.4%	94.7%	94.4%	90.1%
Stolle Road 230 kV	96.2%	95.3%	95.0%	90.1%
Jamestown 115 kV	91.5%	91.0%	90.8%	87.5%

If phase-angle regulators are allowed to adjust before generation is restored in New York, the increased flow of power through western New York results in lower voltages in western New York as summarized in the right hand column of Table 4.2. After PAR and LTC action, approximately 35 buses (nominal voltage 115 kV and above) in NY, NE and PJM have voltages below 95% of nominal. The five lowest bus voltages are listed in the table above.

Table 4.3 shows the five western New York bus voltages after loss of the Bowline plant and LTC and PAR action in the summer peak cases. Note that in case DS1 and DS2 only Bowline 1 and 2 are on-line.

Table 4.3: Bus Voltages after LTC and PAR Action

Bus	Bus Voltages After LTC and PAR Action Following Loss of Bowline 1, 2, and 3			
	Case DS1 Bowline 3, ANP, Athens and Sithe Off-Line	Case DS2 Bowline 3 Off- Line ANP, Athens and Sithe On-Line	Case DS3 Bowline 3, ANP, Athens and Sithe On-Line	Case DS4 Bowline 3, ANP, Athens and Sithe On-Line Indian Point 2 Off
Watercure 345 kV	90.1%	89.3%	86.5%	90.9%
Elm 230 kV	93.8%	93.5%	90.0%	93.9%
Gardenville 230 kV	93.8%	93.6%	90.1%	94.0%
Stolle Road 230 kV	94.1%	93.6%	90.1%	94.2%
Jamestown 115 kV	90.5%	90.7%	87.5%	90.6%

The post-transient power flow illustrates the importance of restoring generation in New York before adjusting the phase angle regulators on the New York-PJM interface. It seems this approach could be considered, as we found no instances where adjustment of the phase shifters is required to relieve overloads or restore low voltages. (If the phase angle regulators are allowed to adjust in the summer peak case after Bowline 1, 2 and 3 are tripped, the additional flow through western New York results in 115 kV system voltages 3% to 5% below pre-contingency levels with voltages at several 345 kV, 230 kV and 115 kV buses below 95%.)

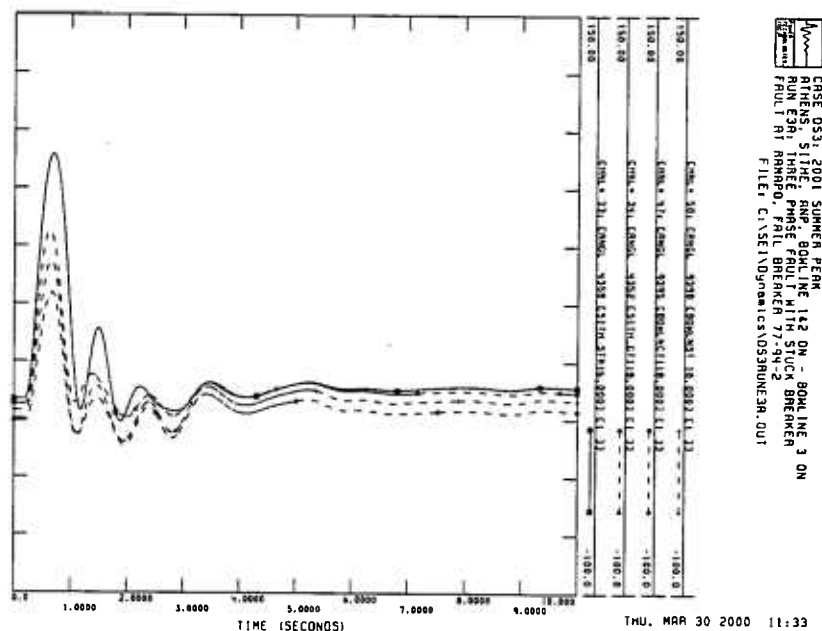
Critical clearing times were an item for study specified by Stipulation No. 4. We studied the critical clearing time at Ramapo because the report on the ANP (Ramapo) plant (Ref. 2) identified that addition of the ANP plant reduces critical clearing time at Ramapo to nine cycles. We felt that it would be important to assess whether or not Bowline 3 would have a significant effect on the critical clearing time at Ramapo. (Critical clearing time at Ladentown was not studied because any stuck breaker would require generation tripping at Bowline.

Critical clearing times at the Ramapo bus were calculated for the contingency designated E3A in Appendix E (4 cycle fault on the Ramapo-Buchanan line, stuck circuit breaker, followed by trip of Ramapo-ANP circuit #1). The critical clearing times calculated in this analysis are summarized in Table 4.4. (This contingency does not cause islanding of any generation at ANP.)

Table 4.4: Critical Clearing Times at Ramapo

	Summer Peak		Winter Peak	
	Case	Clearing Time	Case	Clearing Time
Bowline 3, off-line. Athens, ANP and Sithe on-line	DS2	9.75 cycles	DW2	9.75 cycles
Bowline 3, Athens, ANP and Sithe on-line	DS3	9.50 cycles	DW3	9.50 cycles
Bowline 3, Athens, ANP and Sithe on-line, Indn Pt 2 off-line	DS4	9.75 cycles	DW4	9.50 cycles

The critical clearing time is limited by the transient stability of the Sithe steam unit. For example, in Figure 4 below, the Sithe steam turbine exhibits the largest rotor angle excursion for a 9.5 cycle clearing time. The ANP interconnection study (Ref. 2) found that after the addition of the ANP plant at Ramapo, a stuck circuit breaker at the 345 kV substation resulted in a critical clearing time of 10 cycles for a peak load case, and 9 cycles for an off-peak case. This corresponds closely to the critical clearing times found for the cases with Athens, ANP and Sithe on-line (DS2 and DW2). Stuck circuit breaker analysis shows that Bowline 3 has a negligible impact on the critical clearing time at the Ramapo substation.



• Figure 4: Machine Rotor Angles following Ramapo 345 kV Stuck Circuit Breaker

Specific stability constrained transfer limits were not calculated as a part of the analysis. However, a stability analysis was conducted with the UPNY-ConEd interface stressed to

about 5500 MW and 6400 MW in the summer case and 5100 MW and 6100 MW in the winter case. System response is stable and positively damped for all of the applied contingencies. Comparison of simulations performed with and without Bowline 3 shows that, for the specific contingencies and system conditions studied, the transient stability performance of the bulk power transmission system is not degraded by installation of the proposed Bowline 3 plant.

Relaying Considerations

The addition of Bowline 3 will require additional protective relaying for the new equipment such as the turbine-generators, step-up transformers, station service supply and equipment, and the new 345 kV substation. The equipment manufacturer provides much of this protection equipment. NPCC Document A-5 "Bulk Power System Protection Criteria", Section 4.4 discusses generating station protection requirements.

Protection for the turbine generators will be: Short-circuit (phase and ground), unbalanced phase currents (negative sequence), loss of excitation, reverse power, over-temperature, excessive vibration, over-excitation, out-of-step operation, field ground, inadvertent energization.

The protective relaying will be set to protect the turbine generators as well as to minimize the chances for unnecessary operation due to disturbances in the bulk power system.

Additional equipment, and perhaps resetting of existing protection, will be required for the interconnection of Bowline 3 with the bulk power transmission system at West Haverstraw, as well as any modifications to the West Haverstraw substation. In particular, a new 345 kV underground cable is planned between Bowline and West Haverstraw. Protective relaying will conform to NPCC Document A-5 "Bulk Power System Protection Criteria", which requires such characteristics as:

- Independently operating protection groups, avoiding use of common components.
- Provision of backup relaying in case of failure of primary relaying.
- Provision for tripping of additional breakers in case of failure of a circuit breaker to operate.
- Redundant secure communications channels.
- Avoidance of tripping for stable power swings.

Basic primary protection for each major equipment type interconnecting to the bulk power system will be:

Underground cable to West Haverstraw: differential relaying

Bowline 345 kV substation: bus differential relaying

18/345 kV Step-up transformers: differential, sudden pressure, over-temperature, overcurrent.

Auto-Reclosing Considerations

Auto-reclosing systems are designed to quickly restore transmission lines to service following automatic tripping of circuit breakers due to electrical faults. Feeders 77, 5018, W72 and 94 in the Ramapo substation are equipped with auto-reclosing systems. The status and settings of auto-reclosing systems at the Ladentown 345 kV substation are not known.

In the transient stability simulations, fast reclosing (31 cycles) was modeled on the Ramapo to Ladentown line (Feeder W72). In order to determine the relay settings required for auto-reclosing, the NYS PSC requires a Shaft Torque Study for the project prior to commercial operation. A Shaft Torque Study will be submitted prior to commercial operation.

References

- 1) "Interconnection Study for Sithe Energies 860 MW Plant at Ramapo Substation", Draft Revision 3, Nov. 10, 1999, prepared by Consolidated Edison Company of New York, Inc.
 - 2) "Interconnection Study Ramapo Energy Limited Partnership 1,100 MW Plant at Ramapo Substation", Draft, Sept. 23, 1999, prepared by Consolidated Edison Company of New York, Inc.
 - 3) "System Impact Study for the Athens Generation Plant and Bethlehem Repowering Projects", New York Independent System Operator, Report of the Transmission Planning Advisory Subcommittee to the NYISO Operating Committee, January 5, 2000.
 - 4) "Bowline Combined Cycle Plant: Thermal, Transfer, Voltage and Short Circuit Analysis", Report R9-2000, Power Technologies, Inc., March 3, 2000.
-



Proposed Stipulation No. 4: Electric Transmission Facilities, Article X Proceeding

E-mail message dated 2/04/2000
From: Don K. Gray, Southern Electric Company
To: "Coggins, Terry J." <tcoggin@seiworldwide.com>, Johnny Willis/MCI/SWEC@SWEC
cc: "Kirk, Charles R." <ckirk@msn.com>
Subject: RE: SEI Bowline: Meeting at Con Edison

Please note the agreed to Stipulation and ensure the work performed will accommodate the identified information. If not we must incorporate those missing elements. Let me know. Also, I hope we are working per our schedule and will have some product in the next few days. Please confirm or deny.

STIPULATION NO. 4: ELECTRIC TRANSMISSION FACILITIES

ARTICLE VII PROCEEDING

1. Southern Energy will commence a proceeding in accordance with Article VII of the Public Service Law for a Certificate of Environmental Compatibility and Public Need to construct and operate a 345 kV transmission line to interconnect the Facility to the Haverstraw substation. Probable environmental impacts and proposed mitigation measures, if warranted, will be evaluated in the Article VII proceeding and described in the Article VII Application.
2. The Article VII Application will be incorporated by reference in Southern Energy's Article X Application.
3. The Article VII Application will be filed at the New York State Public Service Commission prior to or contemporaneously with the filing of the Article X Application.

INTERCONNECTION STUDY

4. Power Technologies, Inc. ("PTI"), a Stone & Webster Company, will perform a "System Impact Study for the Electrical Connection of 800 MW Southern Energy Bowline, LLC with the Con Edison Transmission System" ("Study"). The Study will include the necessary technical analyses (Thermal, Voltage, Short Circuit and Stability) to evaluate the impact of the interconnection of the Project on the Con Edison system, New York Independent System Operator ("NYISO") system, and the New England Independent System Operator ("NEISO") and the Pennsylvania-Jersey-Maryland Independent System Operator ("PJMISO") systems. Both summer and winter peak load conditions will be investigated. in accordance with the "NPCC Basic Criteria for the Design and Operation of Interconnected Power System", the NYPP "Standards for Planning and Operating the New York Power Pool Bulk Power System" and the Con Edison "Transmission Design and Operating Criteria". The NYISO, PJMISO, and NE ISO analyses will be limited to the current availability of data and PTI knowledge and requirements of these systems.

CONTENTS OF ARTICLE X APPLICATION

5. Thermal Analysis: Calculate transfer limits for the base 2003 system for the following interfaces: UPNY-SENY, UPNY-Con Ed (including all elements and contingencies of the Millwood South Interface up to the New York City Cable Interface), Central East, Total East, and the PJMISO-NYISO and NEISO-NYISO Interfaces. The New York City Cable Interface will not be tabulated in the Study because it is not affected, due to its remoteness

from West Haverstraw, by the new plant installation. NYISO transfer limits will be evaluated in the west-to-east/north-to-south direction. NYISO-NEISO and NYISO-PJMISO transfer limits will be evaluated in both directions. In each case, sufficient analysis will be conducted to determine the most limiting of the thermal, voltage, or stability limit.

The analyses will also evaluate the effect of dispatching Southern Energy Bowline Unit 3 on the phase-shifted tie-lines regulating the 1000 MW wheeling contract between Con Edison and PSE&G.

6. Voltage Analysis: Evaluate voltage performance of the Con Edison system, pre-disturbance and immediately following the sequential (non-simultaneous) loss of each of the two most critical reactive power sources on the Con Edison system.

7. Short Circuit Analysis: Evaluate the effect of interconnecting the Project on the fault duty levels of individual breakers at all 69kV, 138 kV, and 345kV Con Edison Substations, as well as selected interconnecting Utilities' Substations, for summer peak load conditions only. In addition, the adequacy of station breakers installed and owned by the Project will also be tested. The analysis will be performed in accordance with the Classical Method. Fault duty calculations will be expressed in symmetrical values, and will include simulations for three types of fault:

- (a) three phase-to-ground fault;
- (b) double phase-to-ground fault; and
- (c) single phase-to-ground fault.

Whenever breaker upgrading is not feasible, or is prohibitively costly, alternate mitigating measures will be investigated.

STUDIES TO BE PROVIDED WITHIN 45 DAYS OF FILING OF ARTICLE X APPLICATION

8. (a) Stability Analysis: Evaluate the transient stability performance of the Project and of the interconnected system for the five (5) most critical Design Criteria contingencies and three (3) Extreme Contingency Assessment scenarios, in accordance with the NYISO standards, as follows:

Design Criteria:

Loss of a single Project generating unit, for a three phase-to-ground fault;

Loss of the entire Project, for a three phase-to-ground fault;

Loss of a large adjacent (to Project) generating complex, for a three phase-to-ground fault;

Loss of a single circuit, for a three phase-to-ground fault; and

Loss of a tower, for a three phase-to-ground fault.

Extreme, Contingency Criteria:

Loss of a transmission right-of-way, for a three phase-to-ground fault;

Loss of all lines emanating from a Bulk Power Station, for a three phase-to-ground fault; and

Stuck breaker following a three phase-to-ground fault to determine the back-up breaker Critical Clearing Time.

(b) Relay-Coordination: The study will evaluate any relay coordination changes that may be necessary and identify and provide such proposed changes to the NYPP/NYISO, PJMISO and NEISO.

(c) Auto-Reclosing: Auto-reclosing is applicable to the Facility and the interconnection to Con Edison. An analysis of the Project's impact on auto-reclosing will be provided.

9. It is agreed that the studies set forth in paragraph 8(a)-(c) above need not be completed for the Chairman of the Siting Board to determine that the Application complies with Section 164 of the Public Service Law, on condition that the studies be completed and submitted within 45 days of the filing of the Article X Application, on or before March 30, 2000, or else the lack of the studies may be considered cause for an extension of the schedule in the Article X proceeding for a period of time equal to the time beyond March 30, 2000 the 45 days taken by the Applicant to complete and submit the studies.

CONSULTATION PROCESS

10. Upon finalization, the Scope of Study and Study will be provided to NYSDPS, NYISO, and PJMISO.

11. Southern Energy will keep NYSDPS and NYISO advised of the Study as it progresses.

12. NYSDPS may request technical conferences with PTI and Southern Energy together from time to time to discuss the Study as it progresses.

13. All updates and draft reports will be provided concurrently to NYSDPS and NYISO (including computer input data and output cases that are used in performing the analysis).

14. Upon completion, the Study will be provided to NYSDPS and NYISO and PJM ISO, and the Applicant will arrange a technical conference with PTI and NYSDPS to explain to NYSDPS the scope, inputs, assumptions, change cases and other relevant parameters of the Study.

15. Upon receipt, the Applicant will provide to NYSDPS, NYISO or PJMISO response to the Study.

16. Upon receipt, Southern Energy will provide to NYDPS any study performed by NYISO regarding the Project.

17. If acceptance of the Study by NYISO is required, Southern Energy will inform NYSDPS of the occurrence of acceptance of the Study by the NYISO.

18. Southern Energy agrees to notify, or have PTI notify, the PJM ISO and NEISO about the Project and work cooperatively on any joint studies with those ISOs that are required by their respective FERC-approved tariffs.

19. Southern Energy agrees to provide to NYSDPS concurrently copies of any draft or final studies submitted to those ISOs as well as any computer input data and output data. Comments provided by those ISOs will be provided to NYSDPS as they are received by Southern Energy.

ELECTRIC AND MAGNETIC FIELDS

20. The Application will include a discussion that will comply with the (a) Public Service Commission's applicable electric field strength standards, as set forth in Opinion 78-13, and (b) with the applicable provisions of the Commission's Interim Policy Statement on Magnetic Fields, dated September 11, 1990.

CONFIDENTIALITY

21. Regarding information to be provided to NYSDPS as required in this Stipulation, nothing herein shall prejudice Southern Energy's ability to formally invoke trade secret protection pursuant to 16 NYCRR § 6-1.3 and 6-1.4 by submitting the information to the presiding administrative law judge along with Southern Energy's reasons why the information should not be disclosed to parties other than NYSDPS. If trade secret protection is invoked, Southern Energy will cooperate with NYSDPS in obtaining a

protective order so that NYSDPS may have access to the information without delay.

Appendix
B

**Proposed Interconnection Diagram for
Bowline 3**

The diagram illustrates a complex power distribution network. Key components include:

- Buses:** 345 KV BUS EAST, 138 KV BUS 'A', 138 KV BUS 'B', 138 KV UNIT 3 LINE, 4180 V BUS 'B', and 4180 V BUS 'C'.
- Transformers:** UNIT 1 SET (138 KV-13.8 KV), UNIT 2 SET (138 KV-13.8 KV), UNIT 3 SET 'A' (138 KV-16 KV), UNIT 3 SET 'B' (138 KV-16 KV), and STEAM TURBINE GENERATOR NO. 3.
- Generators:** GENERATOR NO. 3C, GENERATOR NO. 3D, and GENERATOR NO. 3E.
- Protective Devices:** Multiple PCBs (Circuit Breakers) are distributed throughout the system, connected to various busbars and lines.
- Other Equipment:** A 345 KV AUTO TX (Automatic Transformer) is shown connecting the 345 KV BUS EAST to the 138 KV BUS 'A'.

Appendix
C

Bowline 3 Model Data

APPENDIX C

** GENROU ** BUS NAME BSKV MACH C O N S S T A T E S
9395 BOWLNT1 18.0 1 30377-30390 13205-13210

MBASE Z S O R C E X T R A N G E N T A P
218.2 0.00000+J 0.21300 0.00000+J 0.00000 1.00000

T'D0 T''D0 T'Q0 T''Q0 H DAMP XD XQ X'D X'Q X''D XL
3.80 0.033 0.43 0.071 5.20 0.00 2.0270 1.9470 0.3030 0.4500 0.2130 0.1760

S(1.0) S(1.2)
0.0900 0.4600

** URST4B ** BUS NAME BSKV MACH C O N S S T A T E S
9395 BOWLNT1 18.0 1 63910-63926 23470-23473

TR KPR KIR VRMAX VRMIN TA KPM KIM VMMA VMIN
0.000 3.570 3.570 1.000 -0.870 0.010 1.000 0.000 1.000 -0.870

KG KP KI VEMAX KC XL THETAP
0.000 5.600 0.000 7.000 0.160 0.0000 0.000

** GAST2A ** BUS NAME BSKV MACH C O N S S T A T E S V A R S
9395 BOWLNT1 18.0 1 78369-78399 29804-29816 4914-4917

W X Y Z ETD TCD TRATE T MAX MIN ECR K3
25.00 0.000 0.050 1.00 0.040 0.200 167.00 0.00 1.65 -0.17 0.010 0.770

A B C TF KF K5 K4 T3 T4 TT T5
1.00 0.05 1.00 0.40 0.000 0.200 0.800 15.00 2.500 450.0 3.30

AF1 BF1 AF2 BF2 CF2 TR K6 TC
700.0 550.0 -0.299 1.300 0.500 1100.0 0.230 1100.0

** GENROU ** BUS NAME BSKV MACH C O N S S T A T E S
9396 BOWLNT2 18.0 1 30391-30404 13211-13216

MBASE Z S O R C E X T R A N G E N T A P
218.2 0.00000+J 0.21300 0.00000+J 0.00000 1.00000

T'D0 T''D0 T'Q0 T''Q0 H DAMP XD XQ X'D X'Q X''D XL
3.80 0.033 0.43 0.071 5.20 0.00 2.0270 1.9470 0.3030 0.4500 0.2130 0.1760

S(1.0) S(1.2)
0.0900 0.4600

** URST4B ** BUS NAME BSKV MACH C O N S S T A T E S
9396 BOWLNT2 18.0 1 63927-63943 23474-23477

TR KPR KIR VRMAX VRMIN TA KPM KIM VMMA VMIN
0.000 3.570 3.570 1.000 -0.870 0.010 1.000 0.000 1.000 -0.870

KG KP KI VEMAX KC XL THETAP
0.000 5.600 0.000 7.000 0.160 0.0000 0.000

** GAST2A ** BUS NAME BSKV MACH C O N S S T A T E S V A R S
9396 BOWLNT2 18.0 1 78400-78430 29817-29829 4918-4921

W X Y Z ETD TCD TRATE T MAX MIN ECR K3
25.00 0.000 0.050 1.00 0.040 0.200 167.00 0.00 1.65 -0.17 0.010 0.770

A B C TF KF K5 K4 T3 T4 TT T5
1.00 0.05 1.00 0.40 0.000 0.200 0.800 15.00 2.500 450.0 3.30

AF1 BF1 AF2 BF2 CF2 TR K6 TC
700.0 550.0 -0.299 1.300 0.500 1100.0 0.230 1100.0

** GENROU ** BUS NAME BSKV MACH C O N S S T A T E S
 9397 BOWLNT3 18.0 1 30405-30418 13217-13222

MBASE Z S O R C E X T R A N G E N T A P
 218.2 0.00000+J 0.21300 0.00000+J 0.00000 1.00000

T'DO T'DO T'QO T'QO H DAMP XD XQ X'D X'Q X'D XL
 3.80 0.033 0.43 0.071 5.20 0.00 2.0270 1.9470 0.3030 0.4500 0.2130 0.1760

S(1.0) S(1.2)
 0.0900 0.4600

** URST4B ** BUS NAME BSKV MACH C O N S S T A T E S
 9397 BOWLNT3 18.0 1 63944-63960 23478-23481

TR KPR KIR VRMAX VRMIN TA KPM KIM VMMA VMIN
 0.000 3.570 3.570 1.000 -0.870 0.010 1.000 0.000 1.000 -0.870

KG KP KI VBMAX KC XL THETAP
 0.000 5.600 0.000 7.000 0.160 0.0000 0.000

** GAST2A ** BUS NAME BSKV MACH C O N S S T A T E S V A R S
 9397 BOWLNT3 18.0 1 78431-78461 29830-29842 4922-4925

W X Y Z ETD TCD TRATE T MAX MIN ECR K3
 25.00 0.000 0.050 1.00 0.040 0.200 167.00 0.00 1.65 -0.17 0.010 0.770

A B C TF KF K5 K4 T3 T4 TT T5
 1.00 0.05 1.00 0.40 0.000 0.200 0.800 15.00 2.500 450.0 3.30

AF1 BF1 AF2 BF2 CF2 TR K6 TC
 700.0 550.0 -0.299 1.300 0.500 1100.0 0.230 1100.0

** GENROU ** BUS NAME BSKV MACH C O N S S T A T E S
 9398 BOWLNT 18.0 1 30419-30432 13223-13228

MBASE Z S O R C E X T R A N G E N T A P
 405.0 0.00000+J 0.30300 0.00000+J 0.00000 1.00000

T'DO T'DO T'QO T'QO H DAMP XD XQ X'D X'Q X'D XL
 4.25 0.032 0.39 0.064 4.20 0.00 2.4720 2.3880 0.4240 0.6300 0.3030 0.2500

S(1.0) S(1.2)
 0.0900 0.4600

** URST4B ** BUS NAME BSKV MACH C O N S S T A T E S
 9398 BOWLNT 18.0 1 63961-63977 23482-23485

TR KPR KIR VRMAX VRMIN TA KPM KIM VMMA VMIN
 0.000 3.260 3.260 1.000 -0.870 0.010 1.000 0.000 1.000 -0.870

KG KP KI VBMAX KC XL THETAP
 0.000 6.130 0.000 7.670 0.090 0.0000 0.000

Appendix
D

ANP (Ramapo) Model Data: Assumed Data

```

** GENROU ** BUS  NAME  BSKV MACH  C O N S      S T A T E S
                4361 ANPG121  21.0  1      30237-30250  13145-13150

                MBASE      Z S O R C E      X T R A N      G E N T A P
                360.0  0.00000+J 0.32650  0.00000+J 0.00000  1.00000

T'D0 T''D0  T'Q0 T''Q0      H  D A M P  X D      X Q      X'D      X'Q      X''D      X L
5.89 0.042  0.65 0.063    4.46  0.00  2.4430  2.3870  0.4123  0.6065  0.3265  0.2558

                S(1.0)  S(1.2)
                0.2000  0.8000

```

```

** EXST1 ** BUS  NAME  BSKV MACH  C O N S      S T A T E S
                4361 ANPG121  21.0  1      63790-63801  23430-23433

                TR  VIMAX  VIMIN      TC      TB      KA      TA
                0.000  0.170 -0.170    1.000    8.000   250.0   0.020

                VRMAX  VRMIN      KC      KF      TF
                7.180 -6.462    0.107    0.000   1.000

```

```

** GENROU ** BUS  NAME  BSKV MACH  C O N S      S T A T E S
                4362 ANPG221  21.0  2      30251-30264  13151-13156

                MBASE      Z S O R C E      X T R A N      G E N T A P
                360.0  0.00000+J 0.32650  0.00000+J 0.00000  1.00000

T'D0 T''D0  T'Q0 T''Q0      H  D A M P  X D      X Q      X'D      X'Q      X''D      X L
5.89 0.042  0.65 0.063    4.46  0.00  2.4430  2.3870  0.4123  0.6065  0.3265  0.2558

                S(1.0)  S(1.2)
                0.2000  0.8000

```

```

** EXST1 ** BUS  NAME  BSKV MACH  C O N S      S T A T E S
                4362 ANPG221  21.0  2      63802-63813  23434-23437

                TR  VIMAX  VIMIN      TC      TB      KA      TA
                0.000  0.170 -0.170    1.000    8.000   250.0   0.020

                VRMAX  VRMIN      KC      KF      TF
                7.180 -6.462    0.107    0.000   1.000

```

APPENDIX D

** GENROU ** BUS NAME BSKV MACH C O N S S T A T E S
4363 ANPG321 21.0 3 30265-30278 13157-13162

MBASE Z S O R C E X T R A N G E N T A P
360.0 0.00000+J 0.32650 0.00000+J 0.00000 1.00000

T'D0 T''D0 T'Q0 T''Q0 H DAMP XD XQ X'D X'Q X''D XL
5.89 0.042 0.65 0.063 4.46 0.00 2.4430 2.3870 0.4123 0.6065 0.3265 0.2558

S(1.0) S(1.2)
0.2000 0.8000

** EXST1 ** BUS NAME BSKV MACH C O N S S T A T E S
4363 ANPG321 21.0 3 63814-63825 23438-23441

TR VIMAX VIMIN TC TB KA TA
0.000 0.170 -0.170 1.000 8.000 250.0 0.020

VRMAX VRMIN KC KF TF
7.180 -6.462 0.107 0.000 1.000

** GENROU ** BUS NAME BSKV MACH C O N S S T A T E S
4364 ANPG421 21.0 4 30279-30292 13163-13168

MBASE Z S O R C E X T R A N G E N T A P
360.0 0.00000+J 0.32650 0.00000+J 0.00000 1.00000

T'D0 T''D0 T'Q0 T''Q0 H DAMP XD XQ X'D X'Q X''D XL
5.89 0.042 0.65 0.063 4.46 0.00 2.4430 2.3870 0.4123 0.6065 0.3265 0.2558

S(1.0) S(1.2)
0.2000 0.8000

** EXST1 ** BUS NAME BSKV MACH C O N S S T A T E S
4364 ANPG421 21.0 4 63826-63837 23442-23445

TR VIMAX VIMIN TC TB KA TA
0.000 0.170 -0.170 1.000 8.000 250.0 0.020

VRMAX VRMIN KC KF TF
7.180 -6.462 0.107 0.000 1.000

Appendix
E

Stability Analysis Faults Simulated

Stability Analysis Faults Simulated

Stipulation Requirement Design Criteria	Fault Location	Fault Duration	Contingency	Code
Loss of a single Project generating unit, for a three phase-to-ground fault	Bowline 345 kV Bus	4 cycles	Trip Bowline 3 ST	D1A
Loss of the entire project, for a three phase-to-ground fault	At Ladentown on 67 to West Haverstraw	4 cycles	Trip both Ladentown-Bowline circuits and Trip Bowline 1, 2 and 3	D2A
Loss of a large adjacent (to Project) generating complex, for a three-phase-to-ground fault	Buchanan South 345 kV Bus	4 cycles	Trip Indian Point #3	D3A
Loss of a single circuit, for a three phase-to-ground fault	At Ladentown on W72 to Ramapo	4 cycles	Trip Ladentown-Ramapo with reclosing at 31 cycles.	D4A
	At Ladentown on Y88 to Buchanan South	4 cycles	Trip Ladentown-Buchanan South	D4B
	At Buchanan North on line to Eastview	4 cycles	Trip Buchanan North-Eastview	D4C
Loss of a tower, for a three phase-to-ground fault	At Buchanan South on line to Millwood	4 cycles	Trip both Buchanan-Millwood circuits	D5A

Stipulation Requirement Extreme Criteria	Fault Location	Fault Duration	Contingency	Code
Loss of a transmission right-of-way, for a three phase-to-ground fault	At Ladentown on Y88 to Buchanan South	4 cycles	Trip Buchanan South-Ladentown and Buchanan North-Ramapo (Hudson river crossing)	E1A
Loss of all lines emanating for a Bulk Power Station, for a three phase-to-ground fault	Ramapo 345 kV Bus	4 cycles	Disconnect Ramapo 345 kV Bus Trip ANP and Sithe	E2A
Stuck breaker following a three phase-to-ground fault to determine the back-up breaker Critical Clearing Time	At Ramapo on 94 to Buchanan North		Trip Ramapo-Buchanan North at 4 cycles. Trip Ramapo-ANP #1 to determine critical clearing time. No ANP generation is tripped.	E3A

Appendix
F

Simulation Results

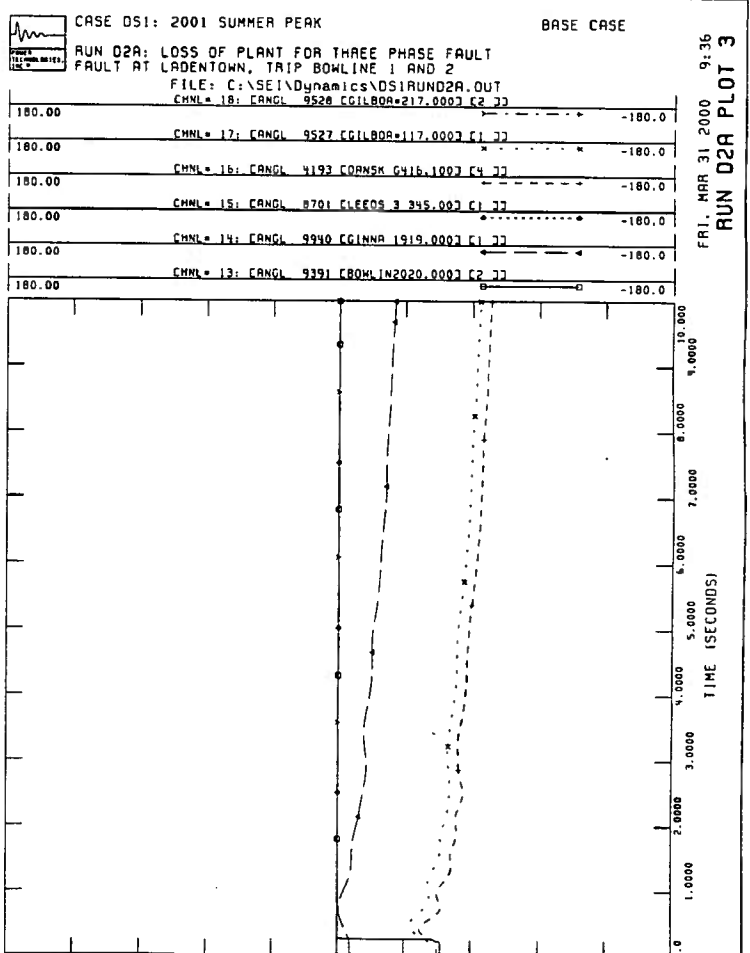
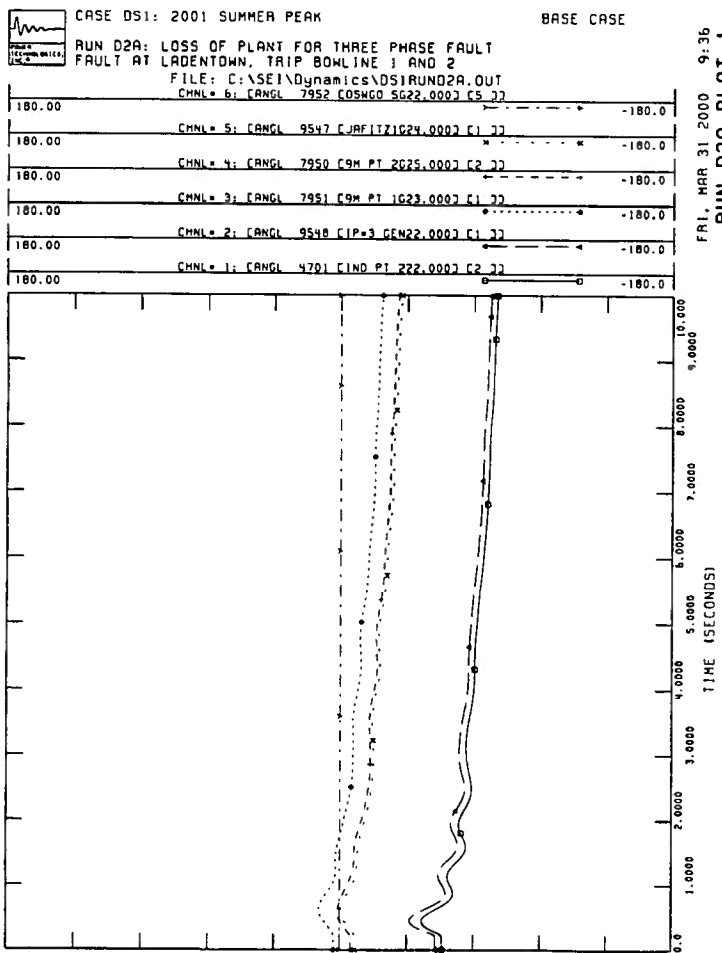
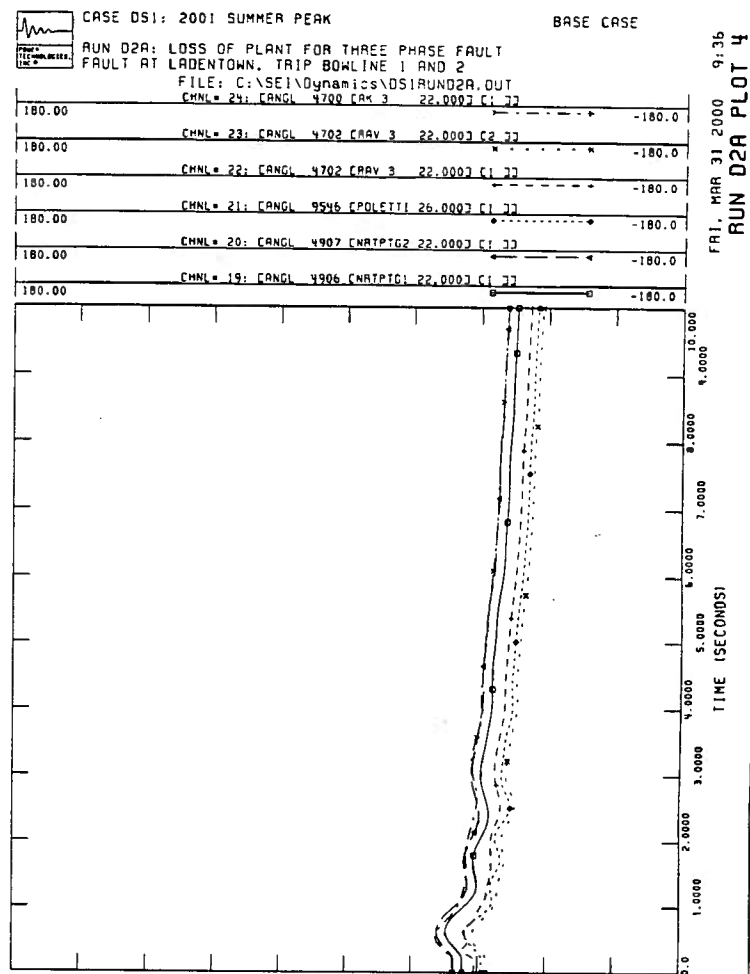
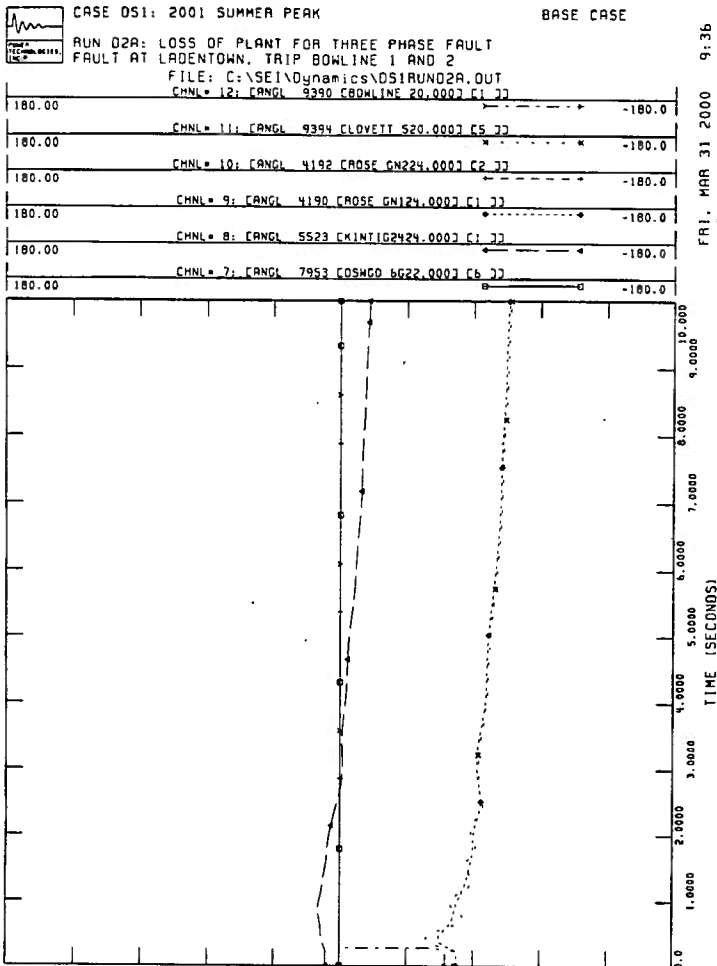
APPENDIX F.1 - Summer Peak Case DS1

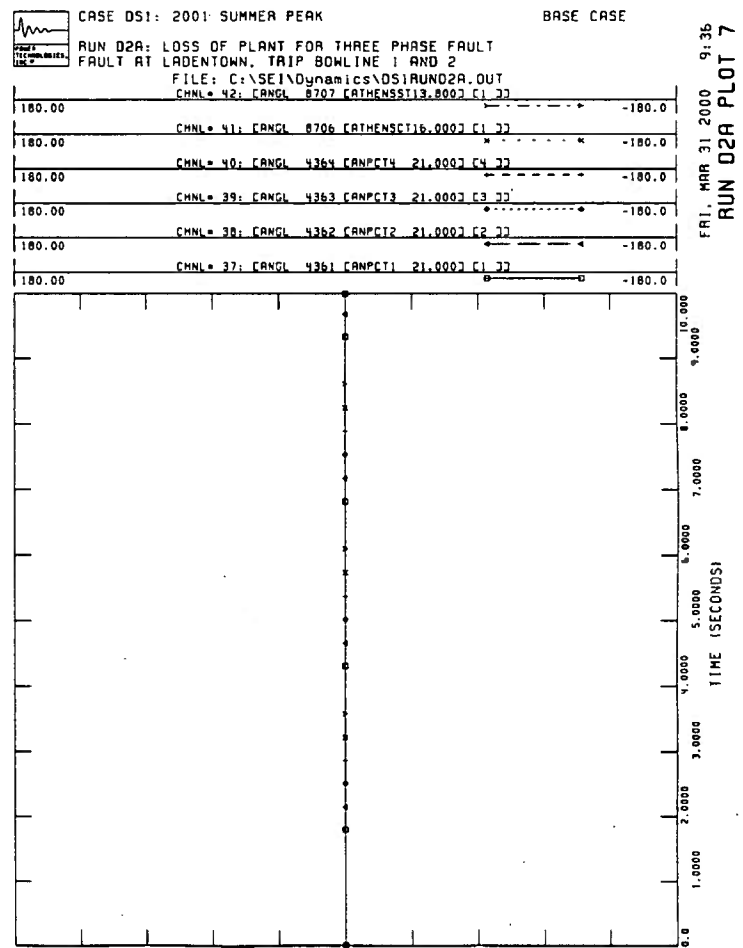
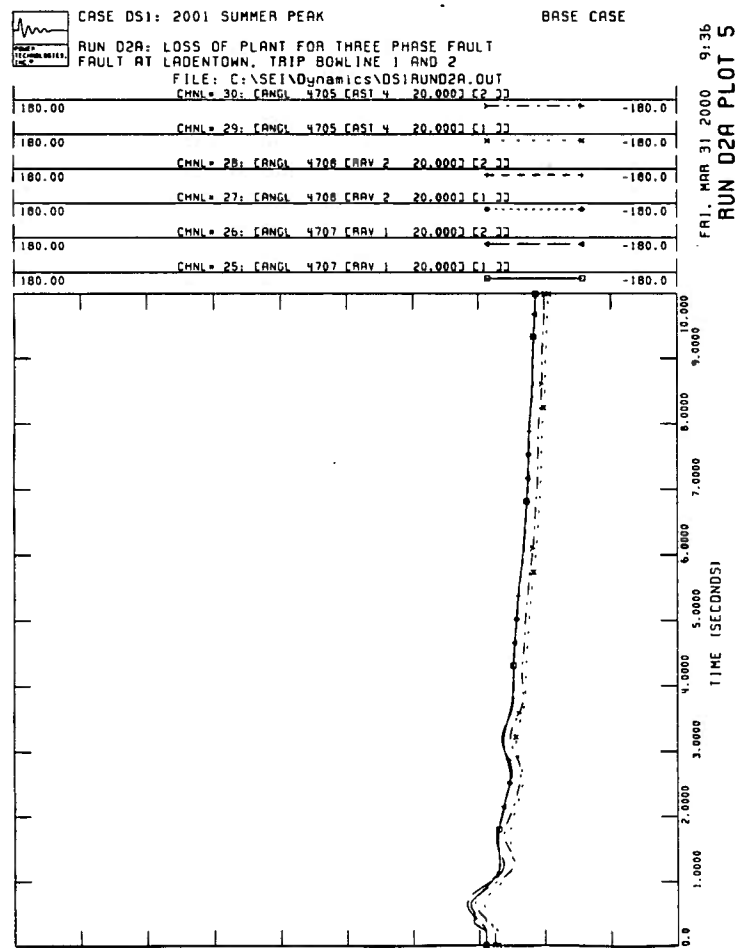
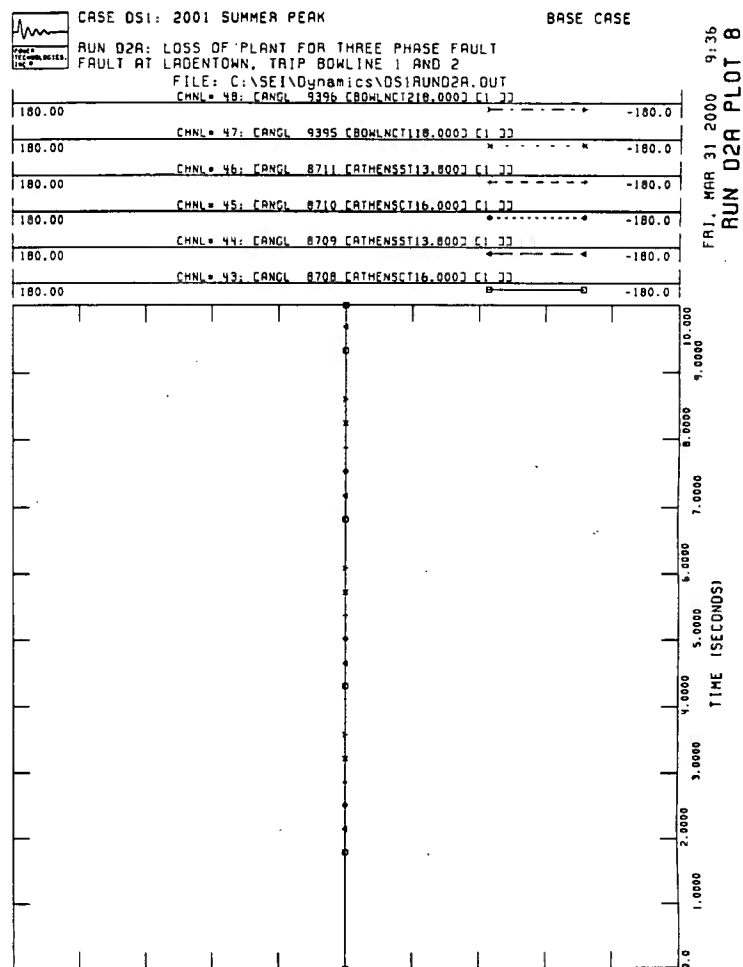
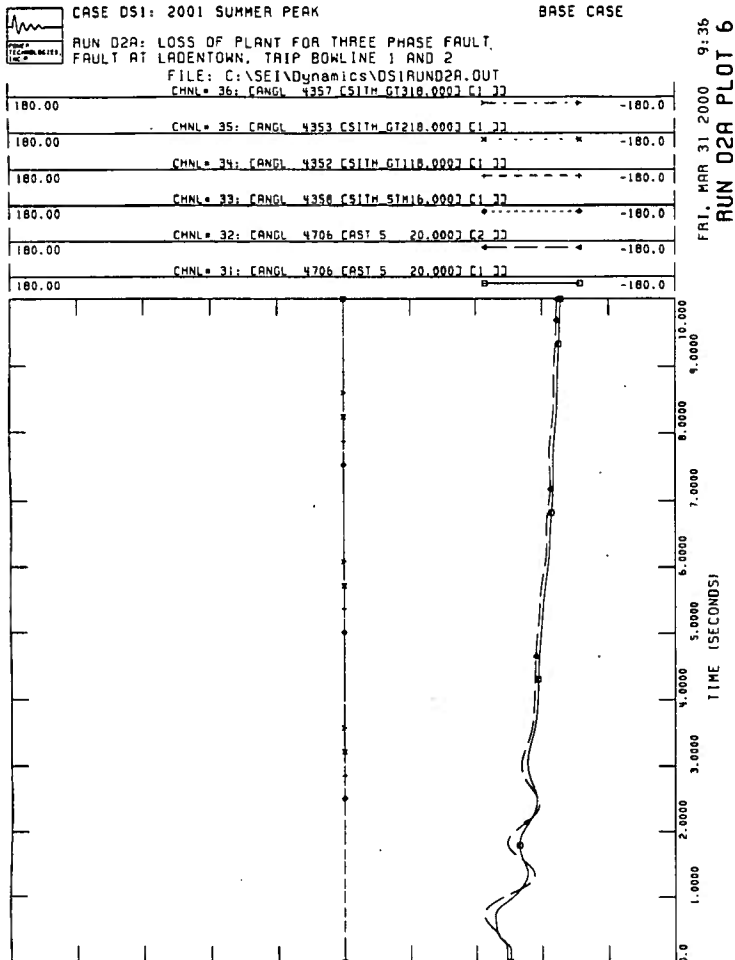
Bowline 3, Athens, ANP and Sithe Off-Line

Bowline 1 and 2 On-Line

CONTINGENCY D2A

RECOVER FROM D1.SNP AND DS1.CNV
START OUTPUT DS1RUND2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9390 / TRIP BOWLINE 1
DROP GENERATOR 2 AT BUS 9391 / TRIP BOWLINE 2
DISCONNECT BUS 4310 /
DISCONNECT BUS 4311 /
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3





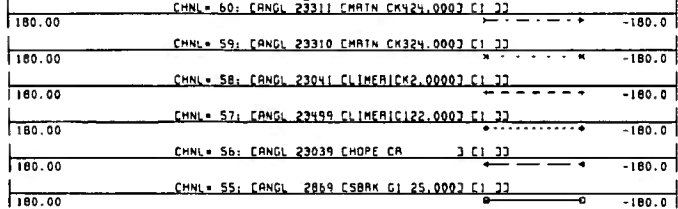


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\Dynamic\DS1RUND2A.OUT
CHNL= 50: CANGL 23311 CMATN CM424.0002 C1 JJ



FRI, MAR 31 2000 9:36
RUN D2A PLOT 10

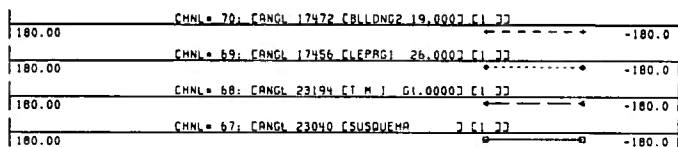


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\Dynamic\DS1RUND2A.OUT



FRI, MAR 31 2000 9:36
RUN D2A PLOT 12

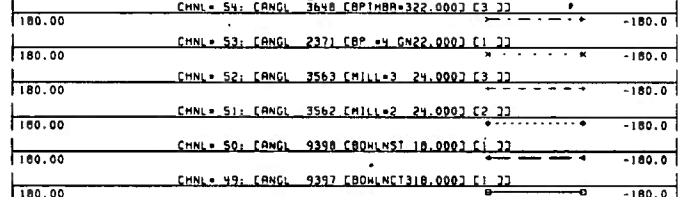


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\Dynamic\DS1RUND2A.OUT
CHNL= 54: CANGL 3648 CAPIHBR=322.0002 C3 JJ



FRI, MAR 31 2000 9:36
RUN D2A PLOT 9

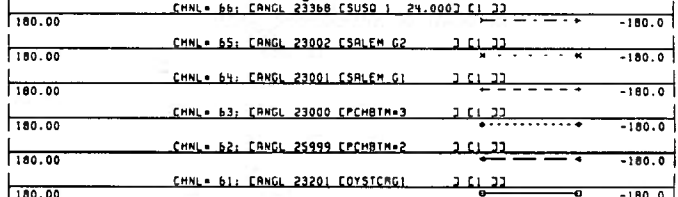


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

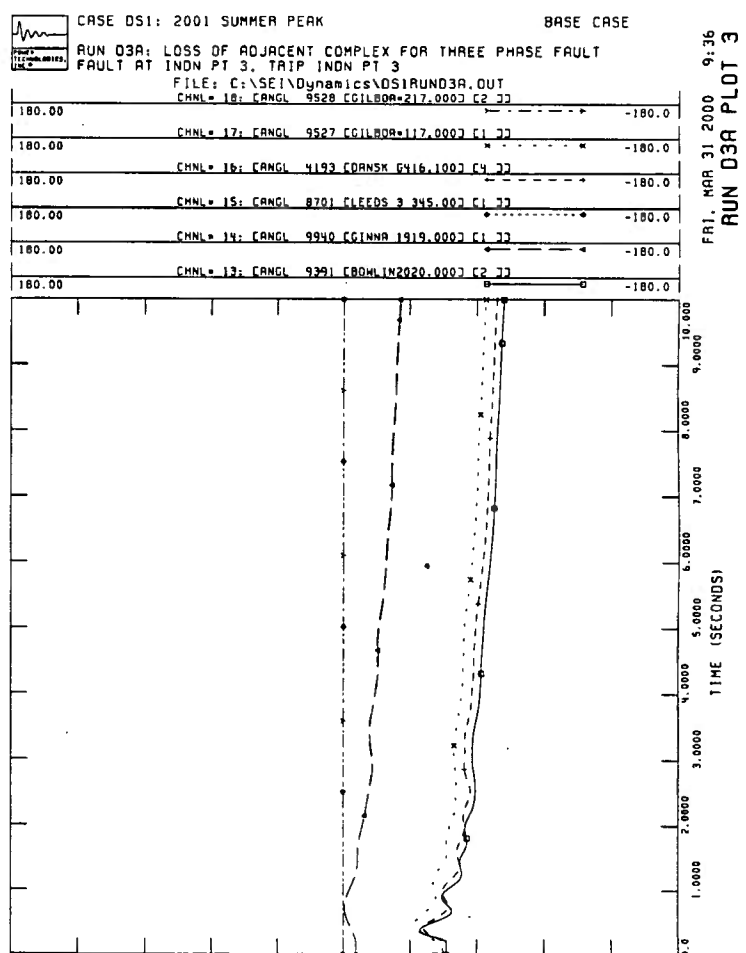
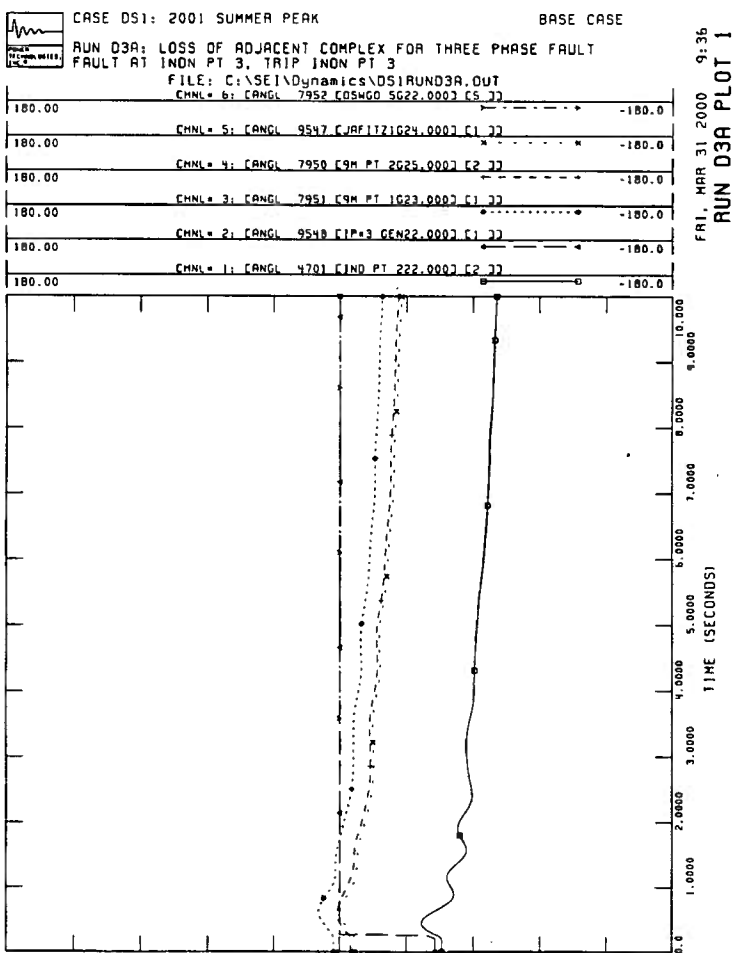
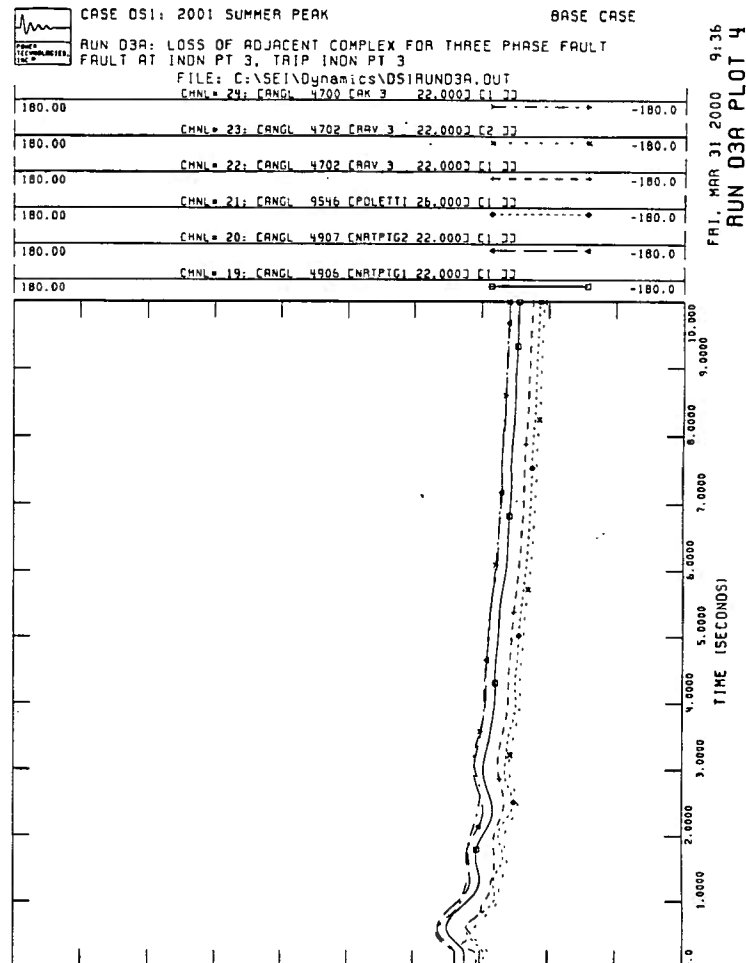
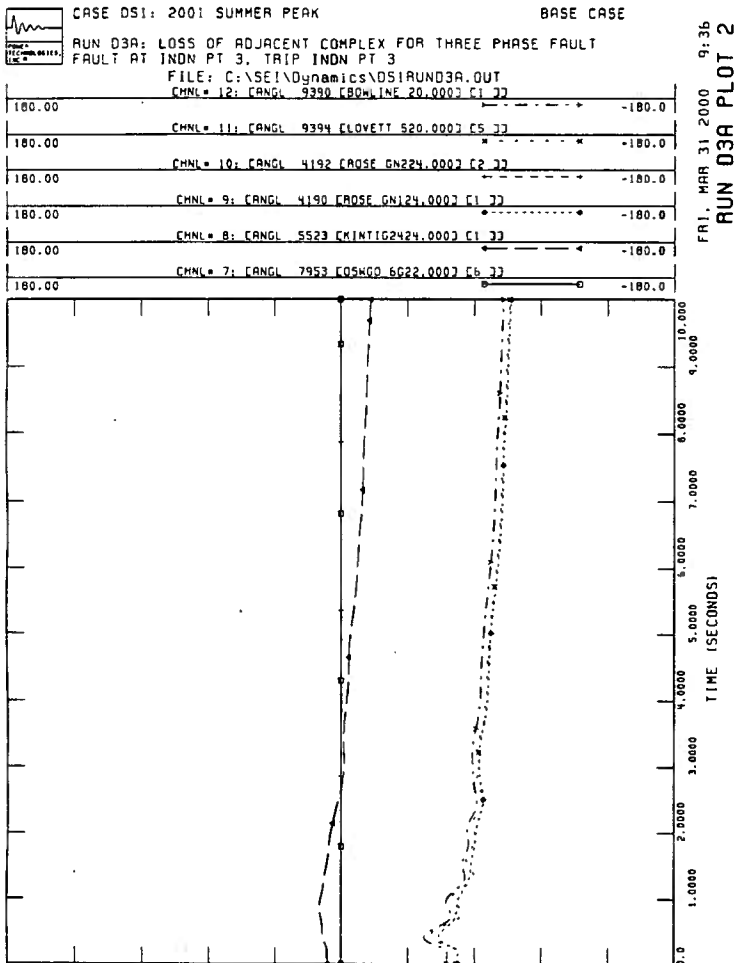
FILE: C:\SEI\Dynamic\DS1RUND2A.OUT
CHNL= 66: CANGL 23368 CSUSA 1 24.0002 C1 JJ



FRI, MAR 31 2000 9:36
RUN D2A PLOT 11

CONTINGENCY D3A

RECOVER FROM D1.SNP AND DS1.CNV
START OUTPUT DS1RUND3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 9582 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT INDN PT 3
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9548 / TRIP INDN PT 3
TRIP LINE FROM BUS 4313 TO BUS 9582 CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



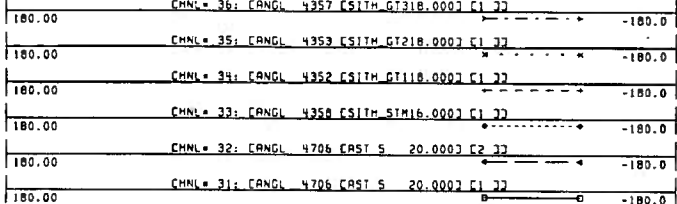


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS1\RUND3A.OUT
CHNL= 36: CANGL 4357 CSITH GT218.0002 C1 JJ



FRI, MAR 31 2000 9:36
RUN D3A PLOT 6

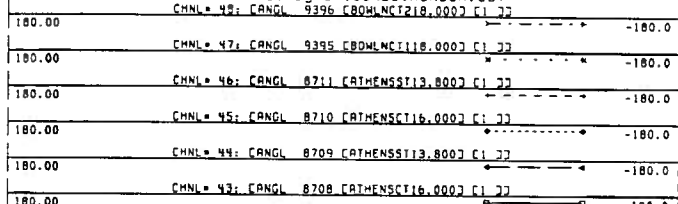


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS1\RUND3A.OUT
CHNL= 48: CANGL 9396 CBOWLNCT118.0002 C1 JJ



FRI, MAR 31 2000 9:36
RUN D3A PLOT 8

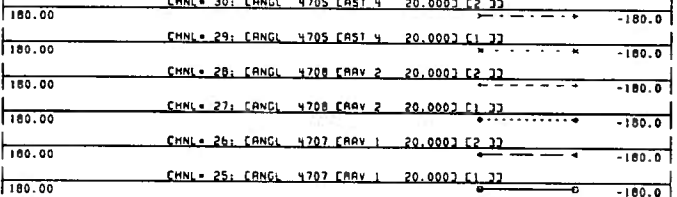


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS1\RUND3A.OUT
CHNL= 30: CANGL 4709 CAST 4 20.0002 C2 JJ



FRI, MAR 31 2000 9:36
RUN D3A PLOT 5

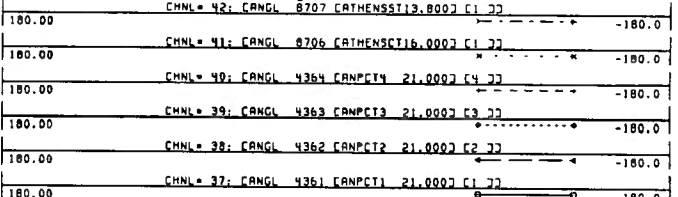


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS1\RUND3A.OUT
CHNL= 42: CANGL 8707 CATHENSST13.8002 C1 JJ



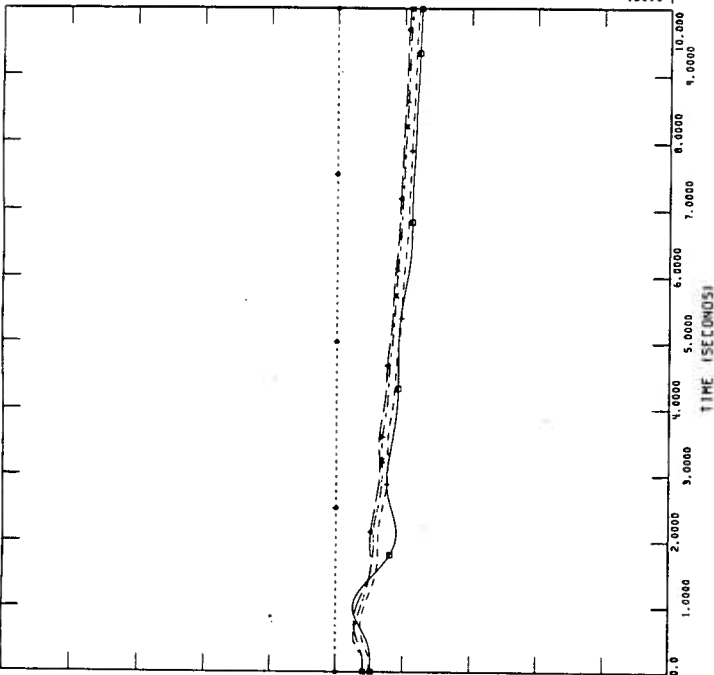
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RUN D3A PLOT 7

CASE DS1: 2001 SUMMER PEAK BASE CASE

RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\odynamics\DS1\RUND3A.OUT
CHNL= 60; CANGL 23311 CMATN CM424.0000 C1 77

180.00 CHNL= 59; CANGL 23310 CMATN CM324.0000 C1 77 -180.0
180.00 CHNL= 58; CANGL 23041 CLIMERIC122.0000 C1 77 -180.0
180.00 CHNL= 57; CANGL 23499 CLIMERIC122.0000 C1 77 -180.0
180.00 CHNL= 56; CANGL 23039 CHOPE CA 3 C1 77 -180.0
180.00 CHNL= 55; CANGL 2859 CSARK G1 25.0000 C1 77 -180.0



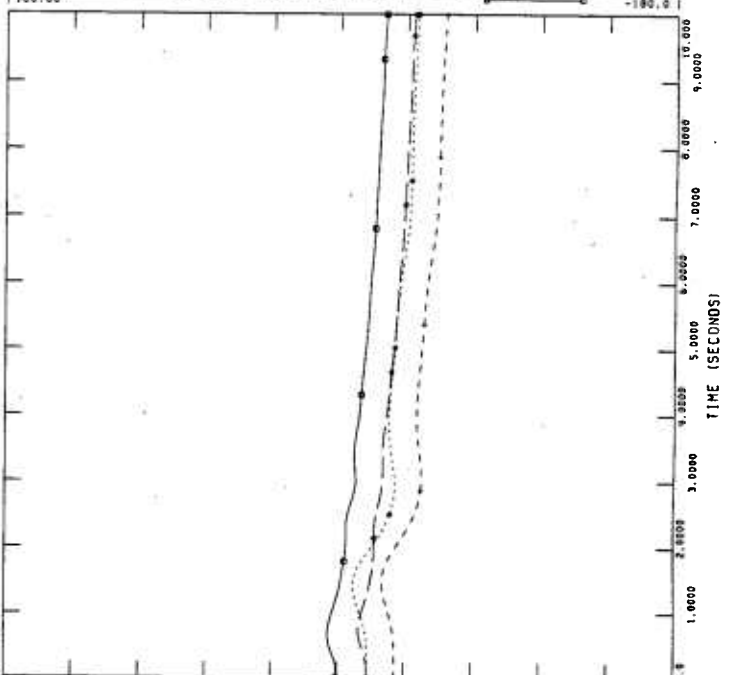
FRI, MAR 31 2000 9:36
RUN D3A PLOT 10

CASE DS1: 2001 SUMMER PEAK BASE CASE

RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\odynamics\DS1\RUND3A.OUT

180.00 CHNL= 70; CANGL 17472 CALLONG2 14.0000 C1 77 -180.0
180.00 CHNL= 69; CANGL 17456 CLPPAG1 25.0000 C1 77 -180.0
180.00 CHNL= 68; CANGL 23194 PT 1 G1.0000 C1 77 -180.0
180.00 CHNL= 67; CANGL 23040 CSU3GUEHA 3 C1 77 -180.0



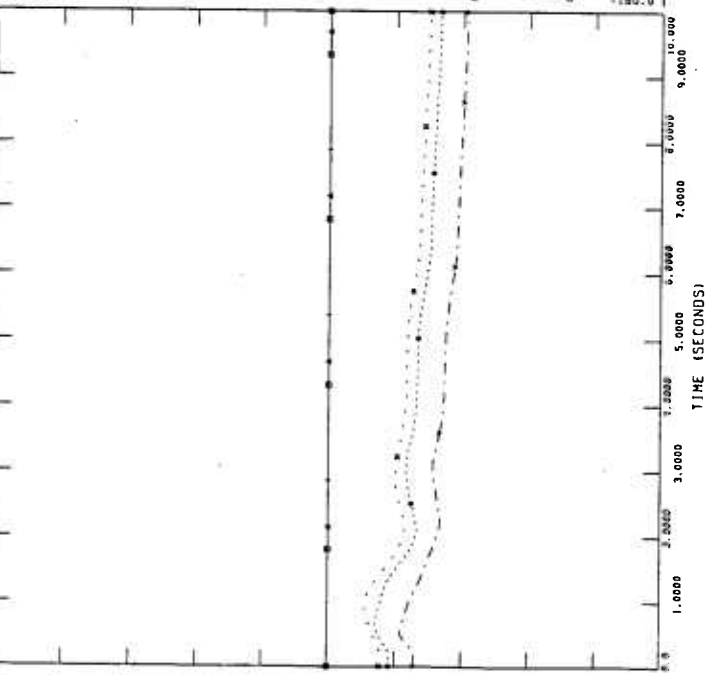
FRI, MAR 31 2000 9:36
RUN D3A PLOT 12

CASE DS1: 2001 SUMMER PEAK BASE CASE

RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\odynamics\DS1\RUND3A.OUT
CHNL= 54; CANGL 3648 C0PTHBA322.0000 C3 77

180.00 CHNL= 53; CANGL 2371 TAP #1 CM22.0000 C1 77 -180.0
180.00 CHNL= 52; CANGL 3563 CMILL#3 24.0000 C3 77 -180.0
180.00 CHNL= 51; CANGL 3562 CMILL#2 24.0000 C2 77 -180.0
180.00 CHNL= 50; CANGL 9338 CROWLNG1 18.0000 C1 77 -180.0
180.00 CHNL= 49; CANGL 9347 CROWLNG1318.0000 C1 77 -180.0



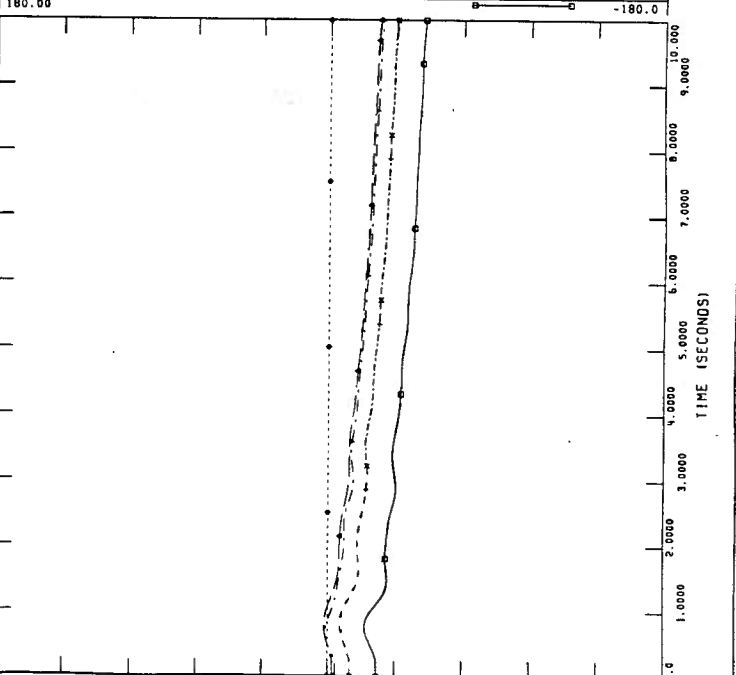
FRI, MAR 31 2000 9:36
RUN D3A PLOT 9

CASE DS1: 2001 SUMMER PEAK BASE CASE

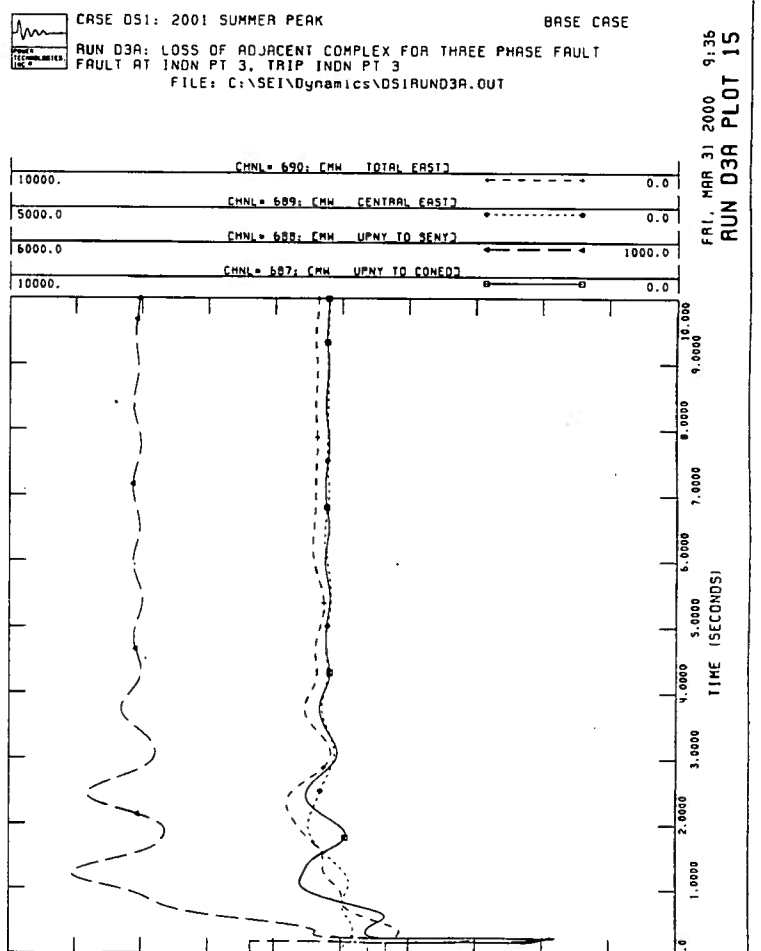
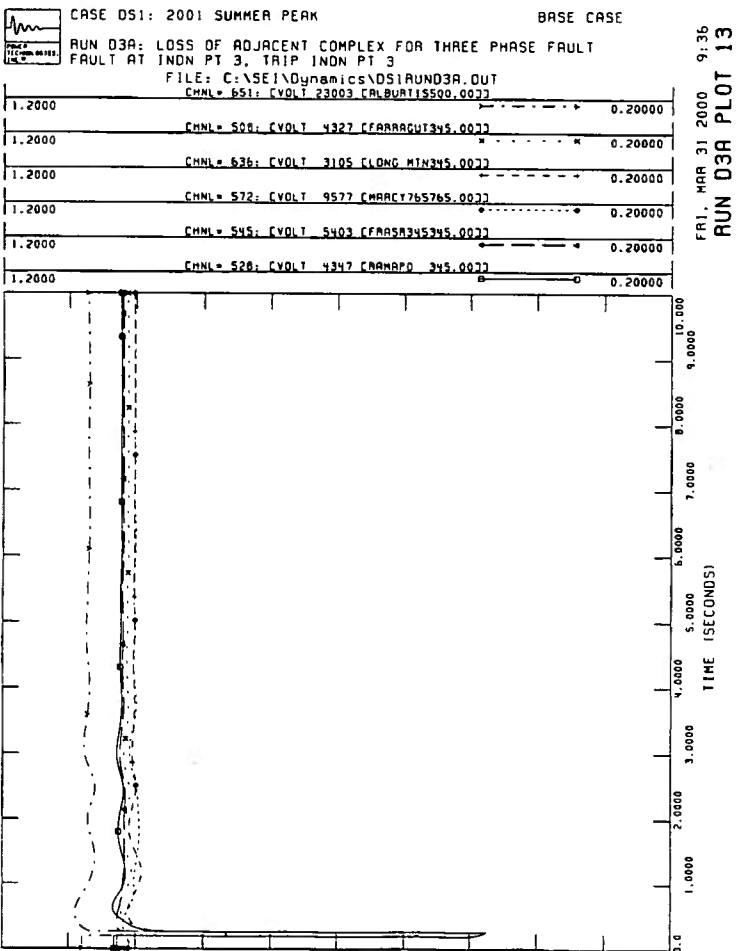
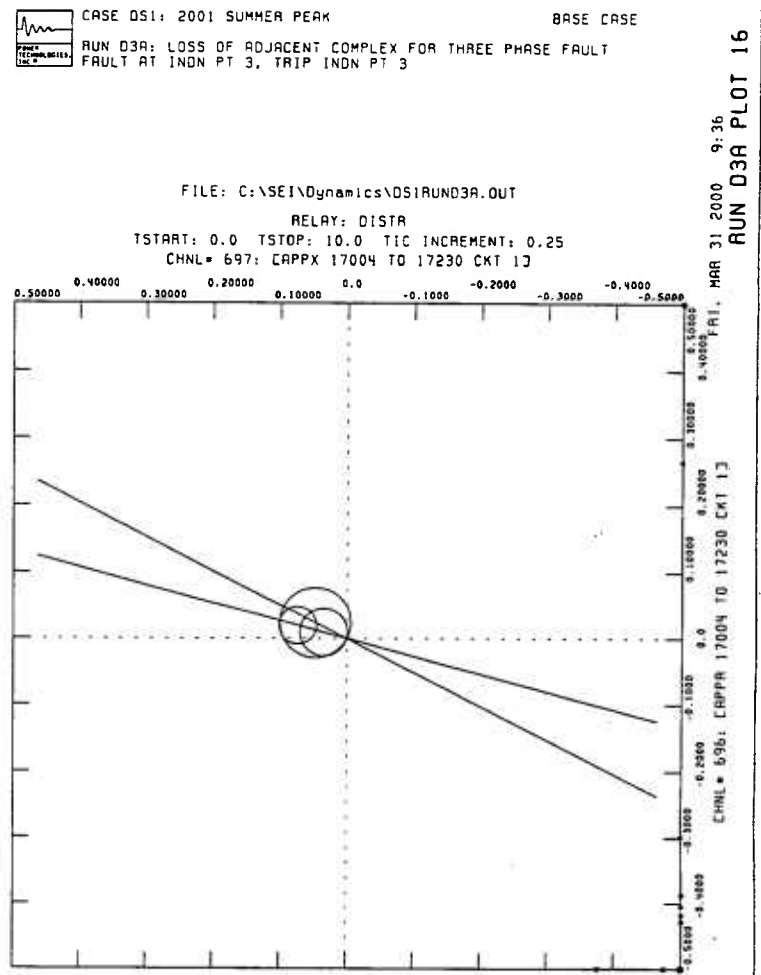
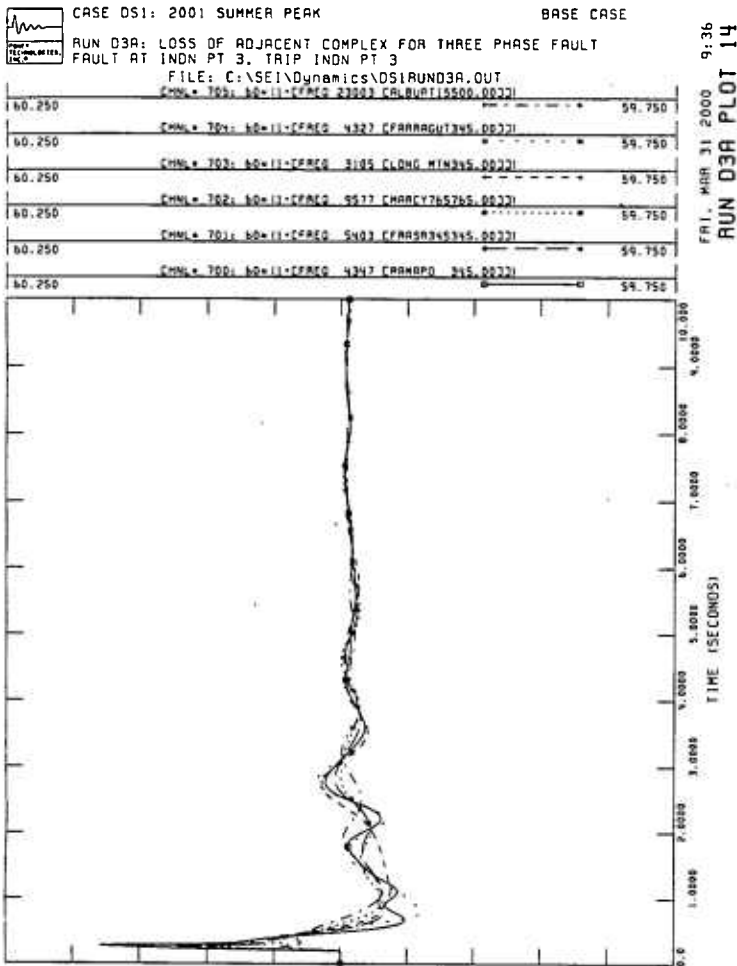
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\odynamics\DS1\RUND3A.OUT
CHNL= 66; CANGL 23368 CSUSQ 1 24.0000 C1 77

180.00 CHNL= 65; CANGL 23002 CSALEM G2 3 C1 77 -180.0
180.00 CHNL= 64; CANGL 23001 CSALEM G1 3 C1 77 -180.0
180.00 CHNL= 63; CANGL 23000 CPCHBTH#3 3 C1 77 -180.0
180.00 CHNL= 62; CANGL 25999 CPCHBTH#2 3 C1 77 -180.0
180.00 CHNL= 61; CANGL 23201 COYSTONG1 3 C1 77 -180.0



FRI, MAR 31 2000 9:36
RUN D3A PLOT 11



CONTINGENCY D4A

RECOVER FROM D1.SNP AND DS1.CNV
START OUTPUT DS1RUND4A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4347 CKT 1 / TRIP LADENTOWN-RAMAPO
CLEAR FAULT
RUN FOR 31 CYCLES PRINT 0 PLOT 3
APPLY FAULT BUS 4347 IMPEDANCE 0.119 2.642 OHMS BASEKV 345 / RECLOSE AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

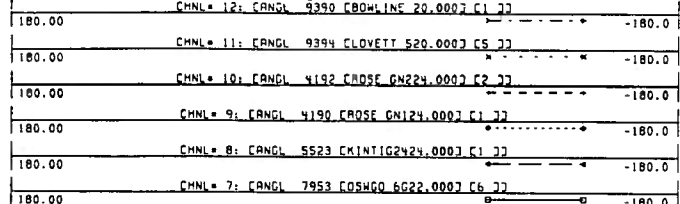


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS1AUND4A.OUT
CHNL = 12: CANGI 9390 CROWLINE 20.0007 C1 JJ

FRI, MAR 31 2000 9:40
RUN D4A PLOT 2

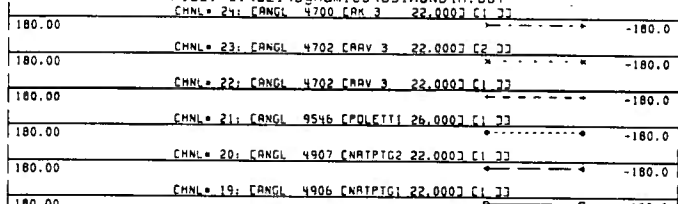


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS1AUND4A.OUT
CHNL = 24: CANGI 4700 CARV 3 22.0007 C1 JJ

FRI, MAR 31 2000 9:40
RUN D4A PLOT 4

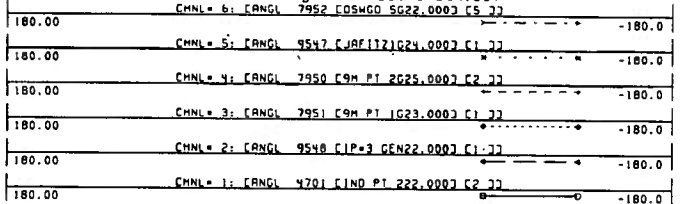


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS1AUND4A.OUT
CHNL = 6: CANGI 7952 COSHGO 5622.0007 C5 JJ

FRI, MAR 31 2000 9:40
RUN D4A PLOT 1

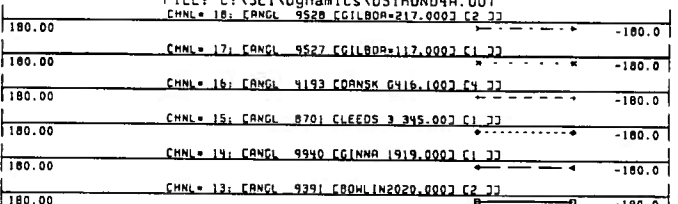


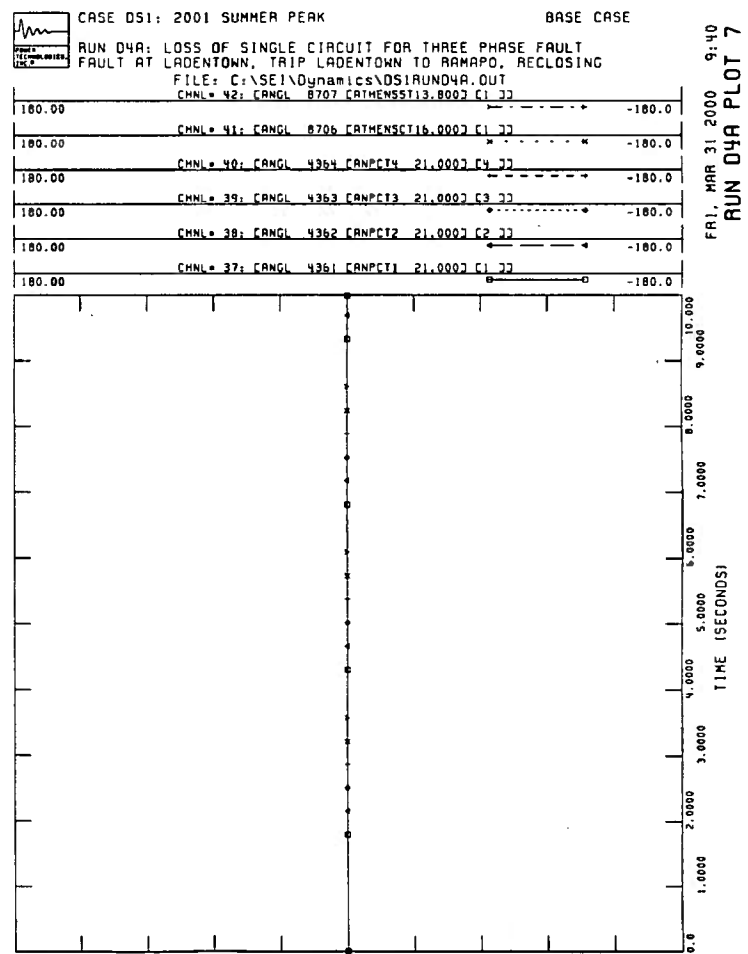
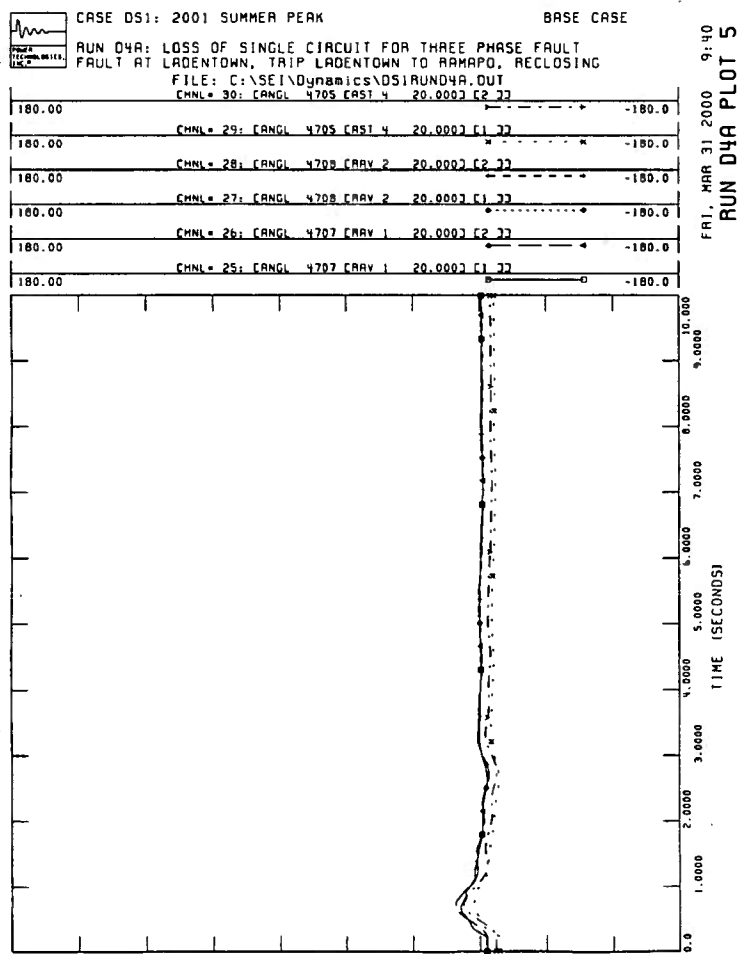
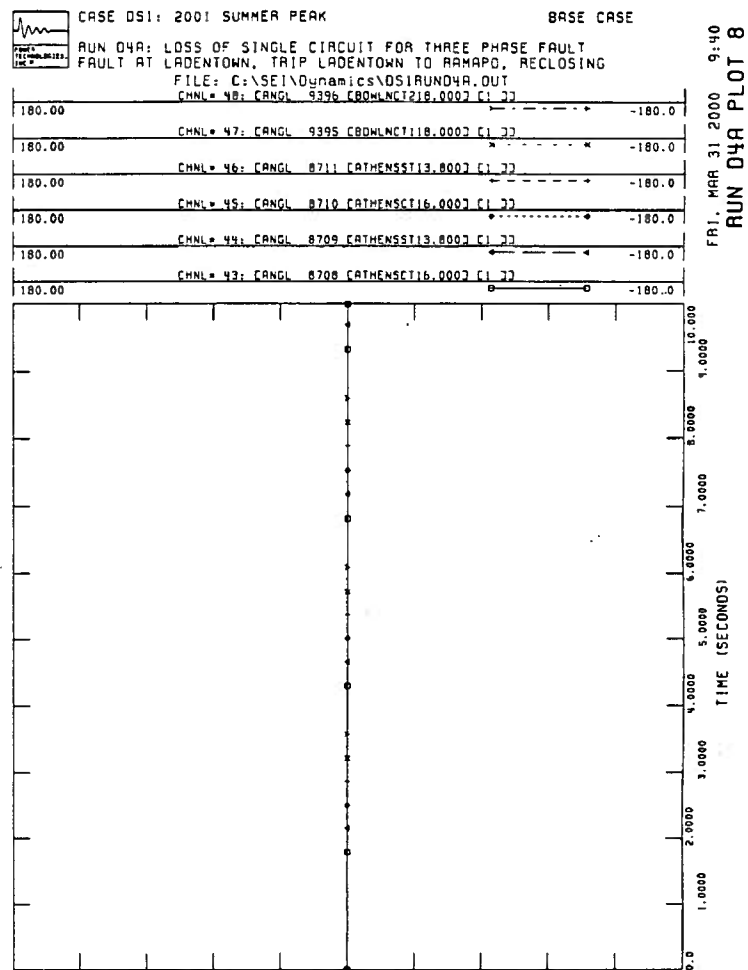
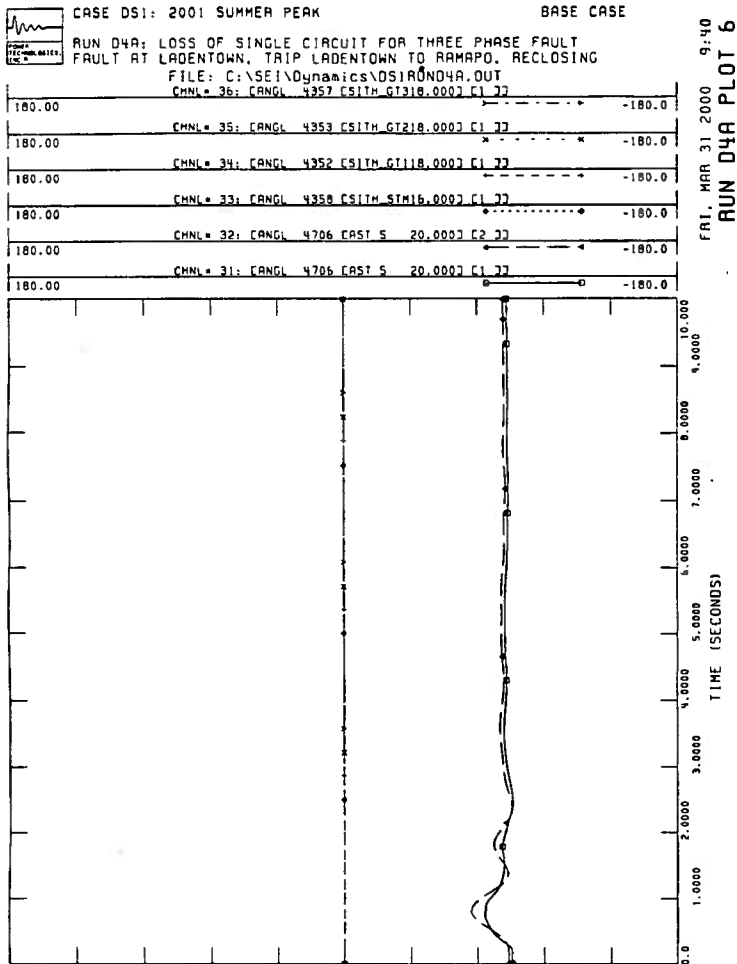
CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS1AUND4A.OUT
CHNL = 18: CANGI 9528 CGLBDA 217.0007 C2 JJ

FRI, MAR 31 2000 9:40
RUN D4A PLOT 3



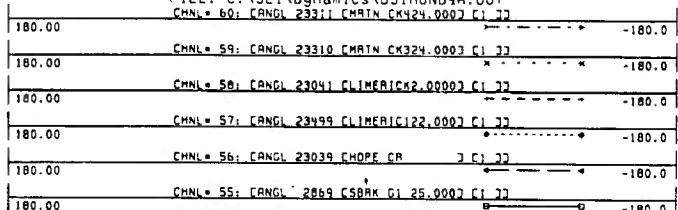




CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS1AUND4A.OUT
CHNL = 60: CANG1 23311 CMATN CK424.0002 C1 JJ



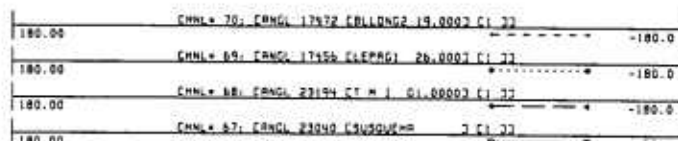
FRI, MAR 31 2000 9:40
RUN D4A PLOT 10



CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS1AUND4A.OUT



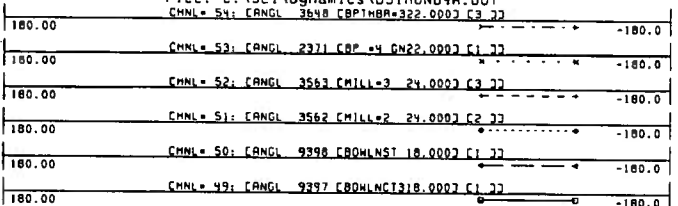
FRI, MAR 31 2000 9:40
RUN D4A PLOT 12



CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS1AUND4A.OUT
CHNL = 54: CANG1 3648 CPTHBM 322.0002 C3 JJ



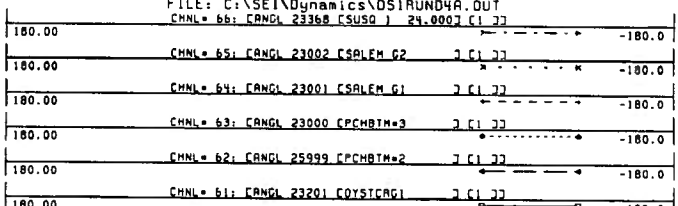
FRI, MAR 31 2000 9:40
RUN D4A PLOT 9



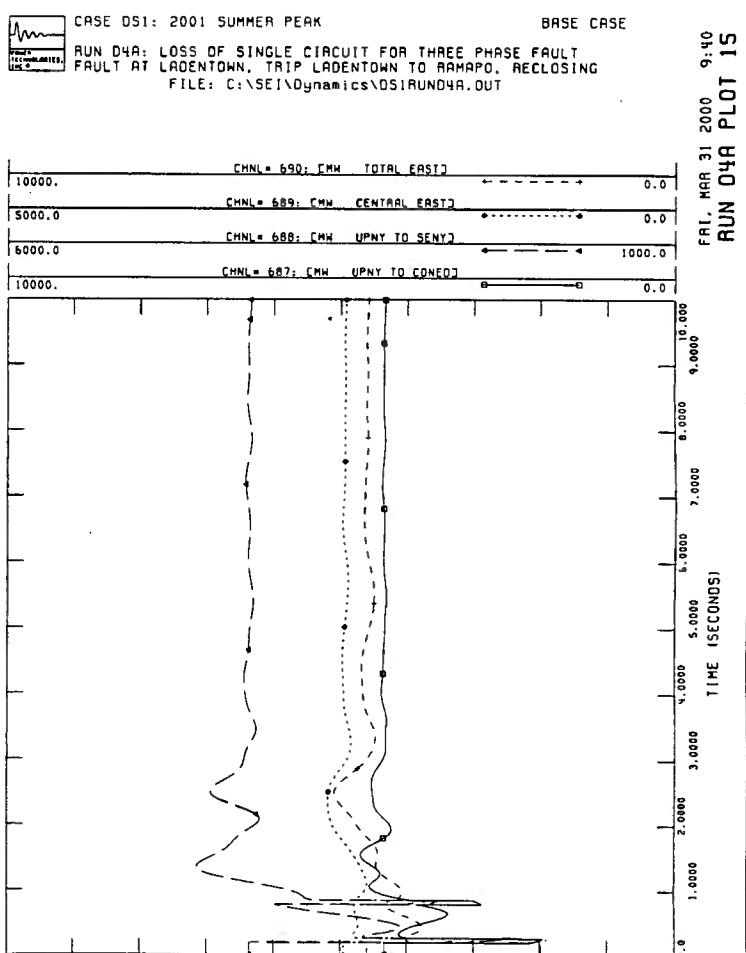
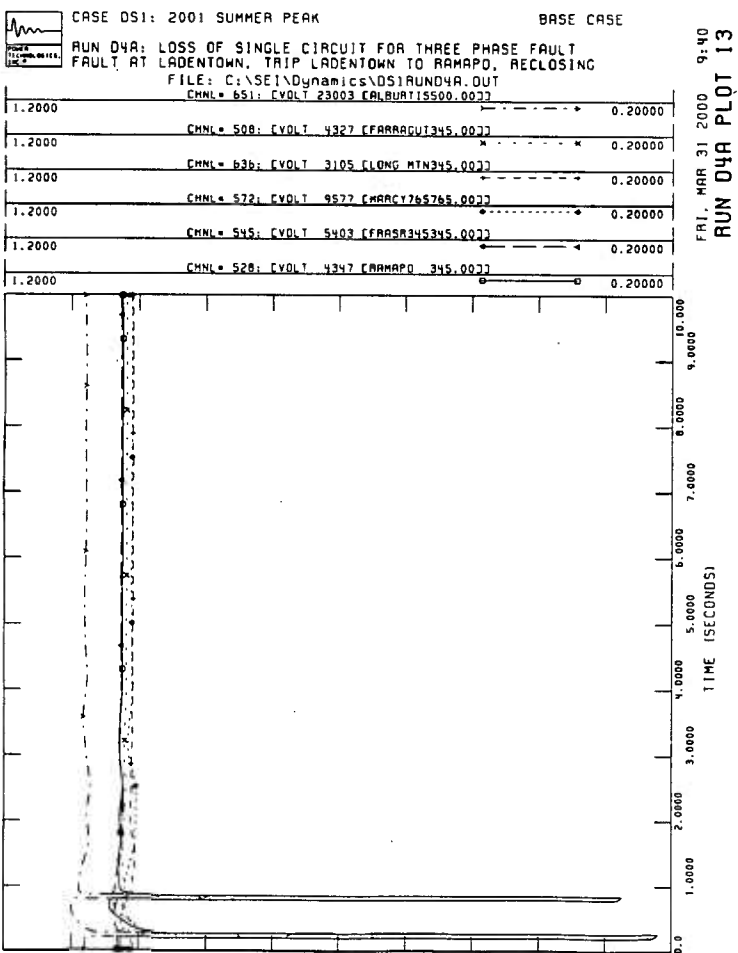
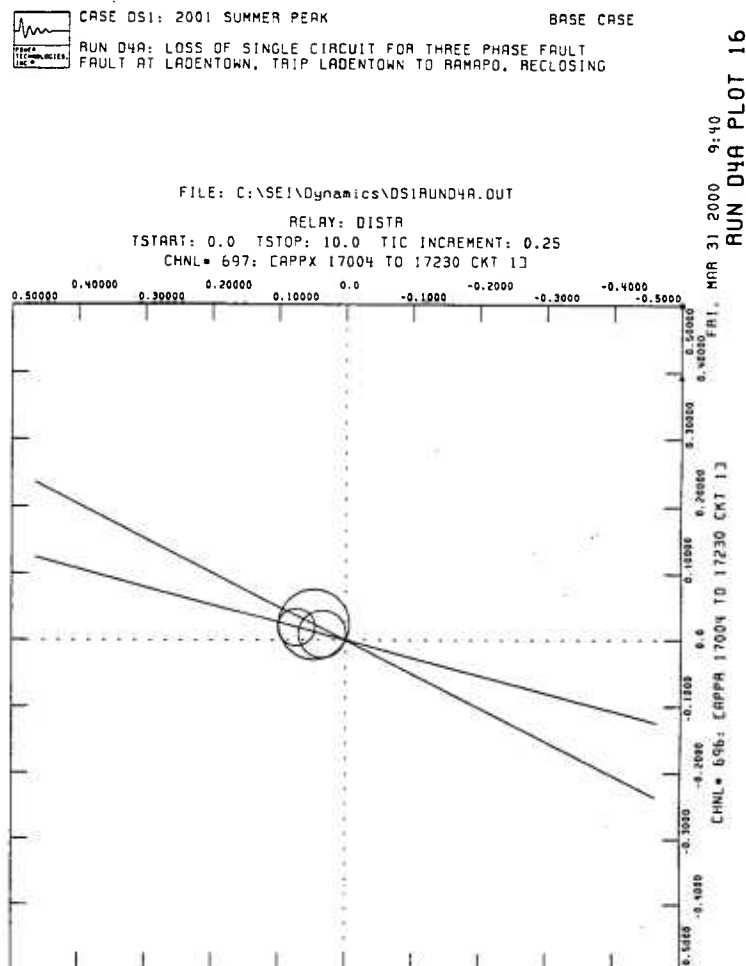
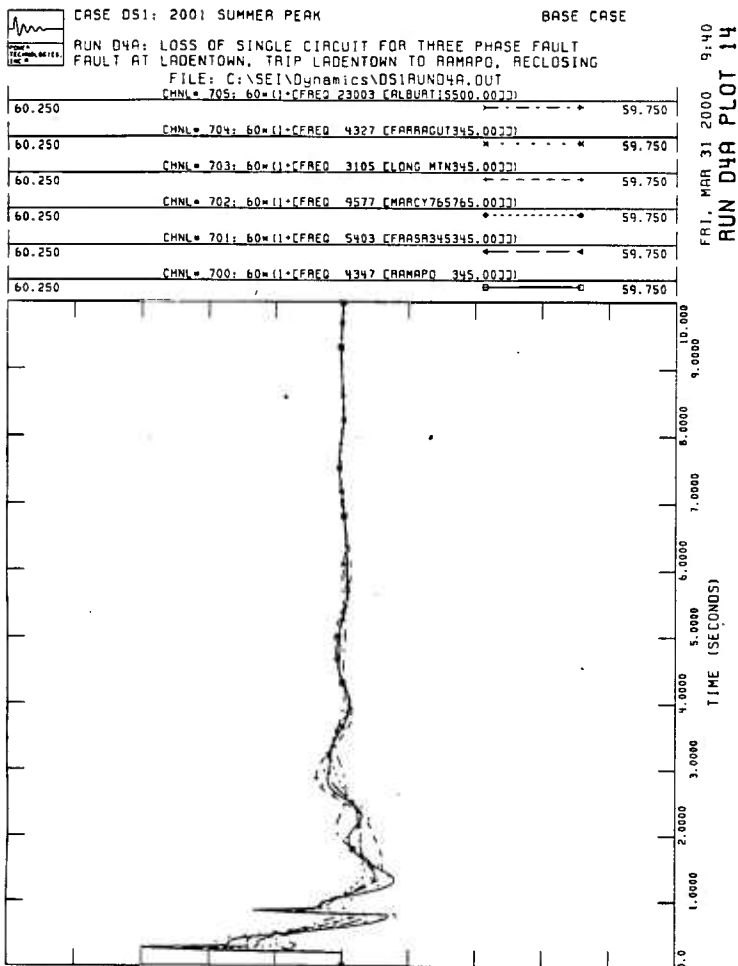
CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS1AUND4A.OUT
CHNL = 65: CANG1 23002 CSALEM C2 JJ



FRI, MAR 31 2000 9:40
RUN D4A PLOT 11



CONTINGENCY D4B

RECOVER FROM D1.SNP AND DS1.CNV

START OUTPUT DS1RUND4B.OUT

RUN TO 0.2 SECONDS PRINT 0 PLOT 3

APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN

RUN FOR 4 CYCLES PRINT 0 PLOT 3

TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1

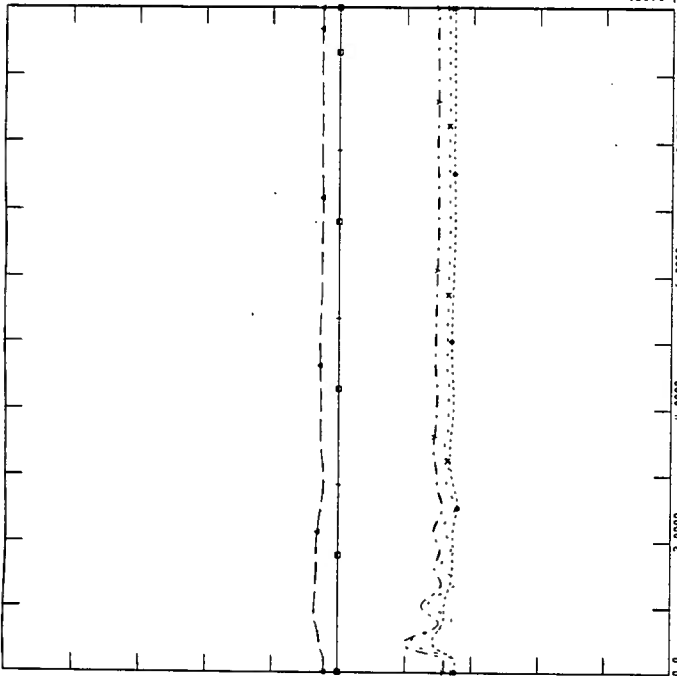
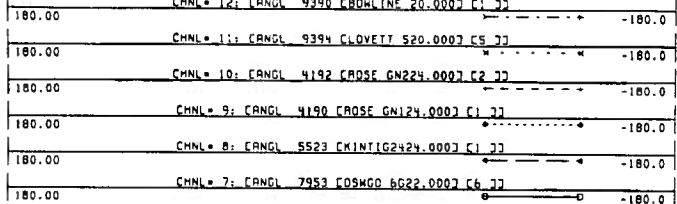
/ TRIP LADENTOWN-BUCHANAN S

CLEAR FAULT

RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS1: 2001 SUMMER PEAK BASE CASE

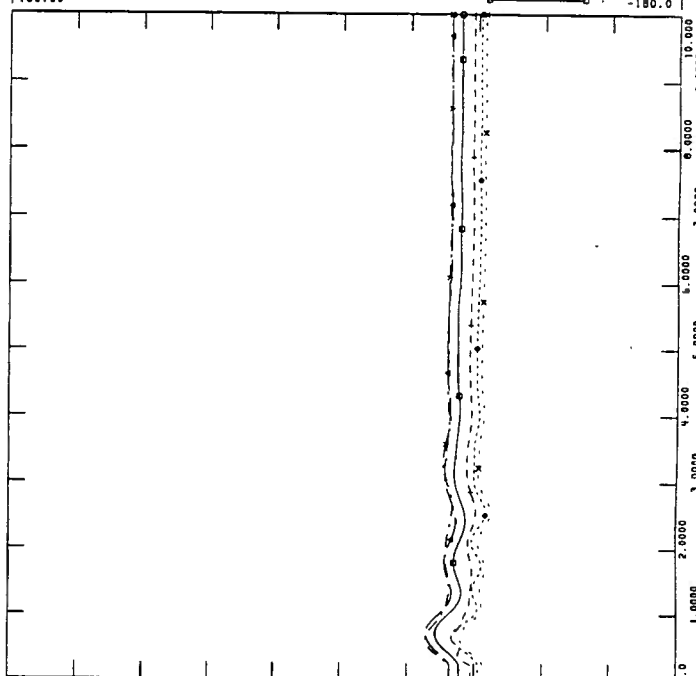
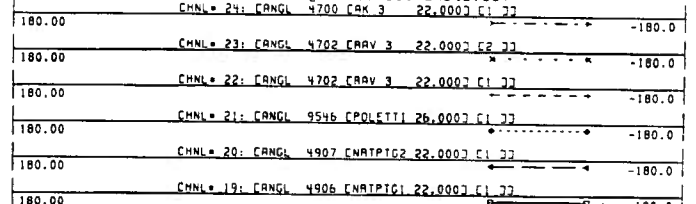
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS1\RUN048.OUT
CHNL= 12: CANGL 9390 CROHLIN 20.0007 C1 JJ



FRI, MAR 31 2000 9:40
RUN 048 PLOT 2

CASE DS1: 2001 SUMMER PEAK BASE CASE

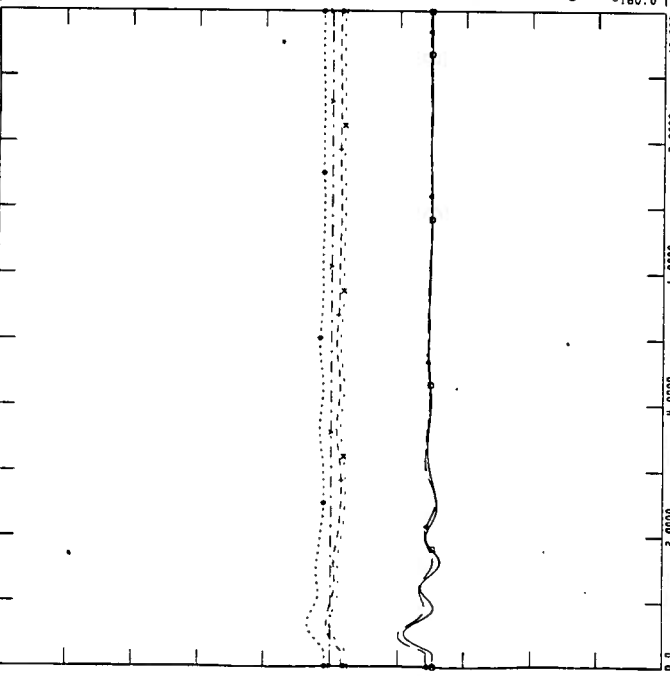
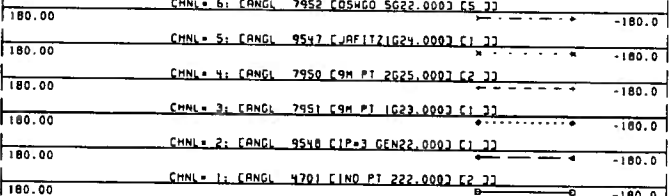
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS1\RUN048.OUT
CHNL= 24: CANGL 4700 CARV 3 22.0007 C1 JJ



FRI, MAR 31 2000 9:40
RUN 048 PLOT 4

CASE DS1: 2001 SUMMER PEAK BASE CASE

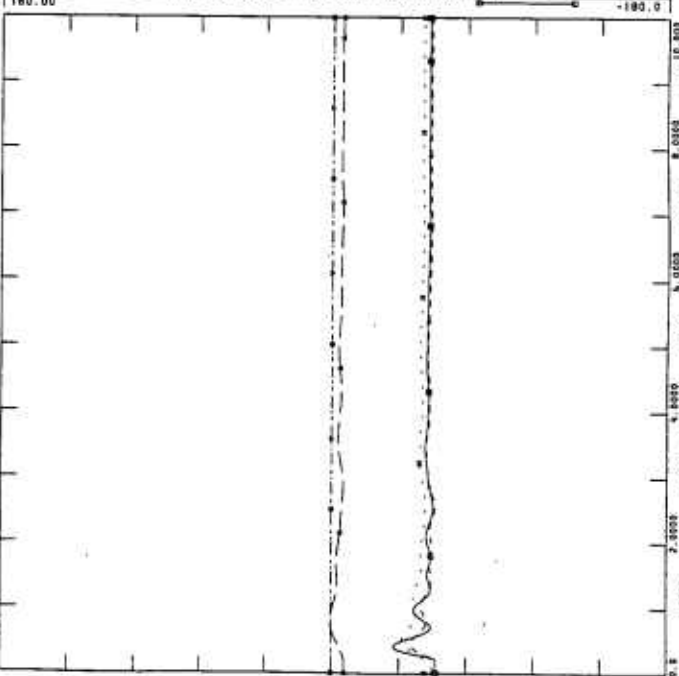
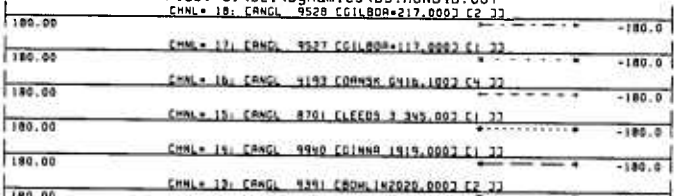
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS1\RUN048.OUT
CHNL= 61: CANGL 7952 COSHGO 5022.0007 C8 JJ



FRI, MAR 31 2000 9:40
RUN 048 PLOT 1

CASE DS1: 2001 SUMMER PEAK BASE CASE

RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS1\RUN048.OUT
CHNL= 18: CANGL 9528 CGILBOR=217.0007 C2 JJ



FRI, MAR 31 2000 9:40
RUN 048 PLOT 3

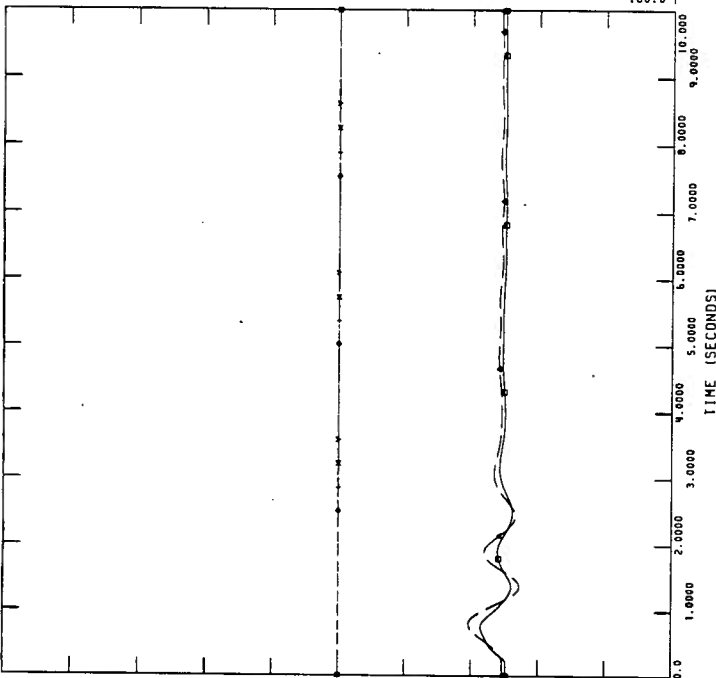
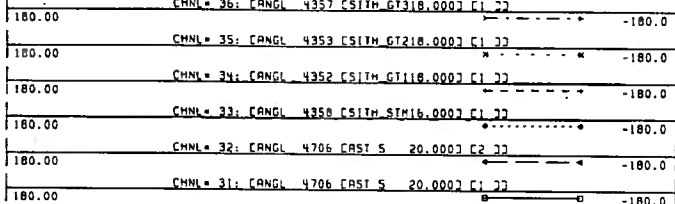


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DS1\RUN048.OUT
CHNL = 35: CANGL 4353 CSITH 6T218.0003 C1 JJ



FRI, MAR 31 2000 9:40
RUN 048 PLOT 6

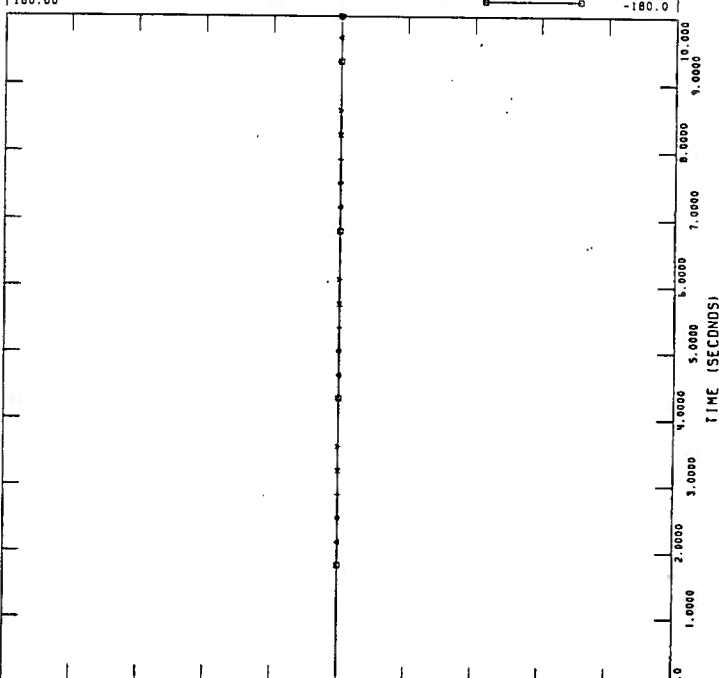
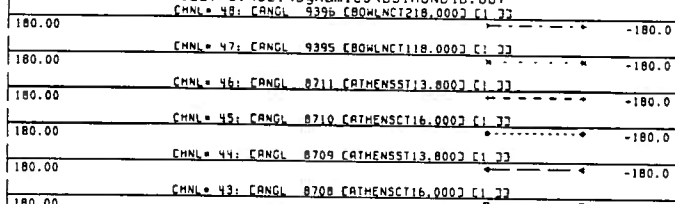


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DS1\RUN048.OUT
CHNL = 48: CANGL 9395 CBOWLNCT18.0003 C1 JJ



FRI, MAR 31 2000 9:40
RUN 048 PLOT 8

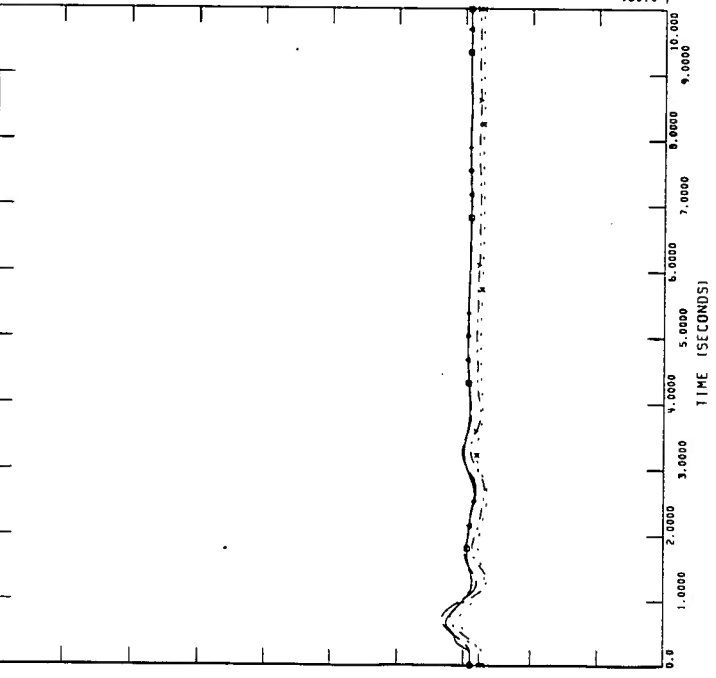
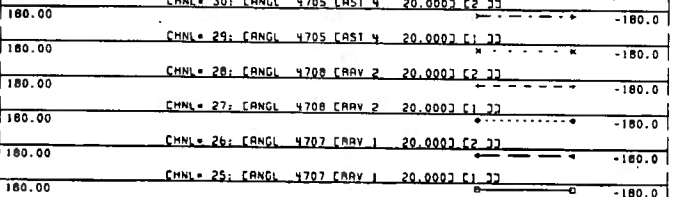


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DS1\RUN048.OUT
CHNL = 30: CANGL 4705 CAST 4 20.0003 C2 JJ



FRI, MAR 31 2000 9:40
RUN 048 PLOT 5

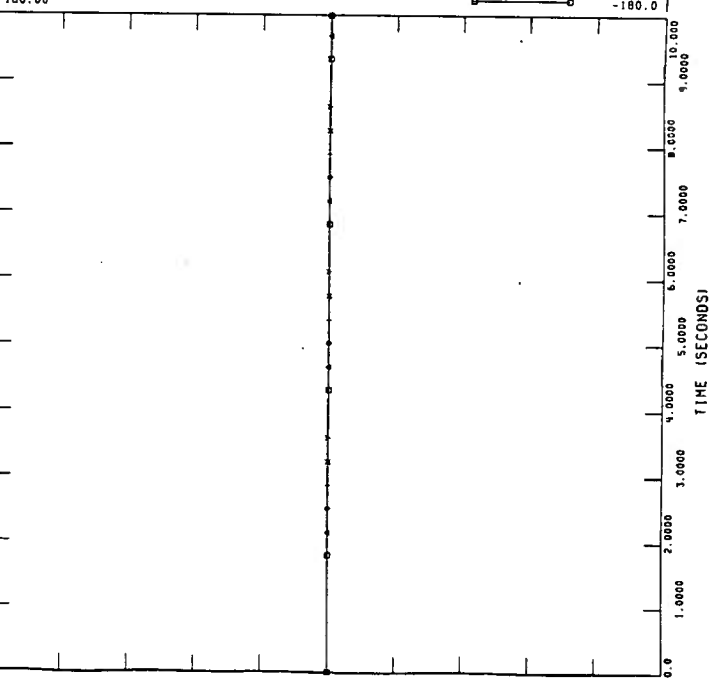
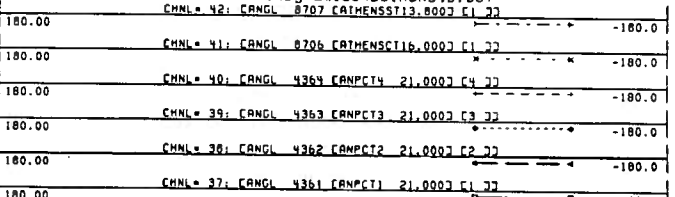


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DS1\RUN048.OUT
CHNL = 42: CANGL 8707 CATHENSST13.8003 C1 JJ



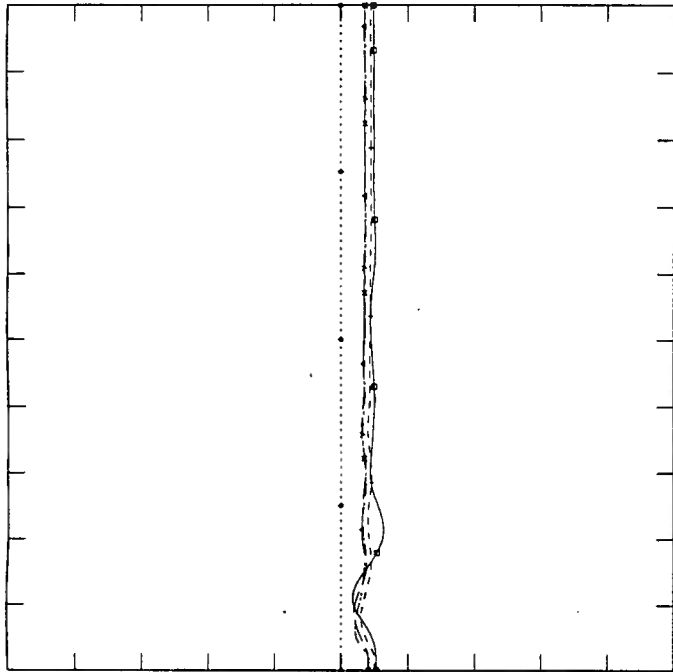
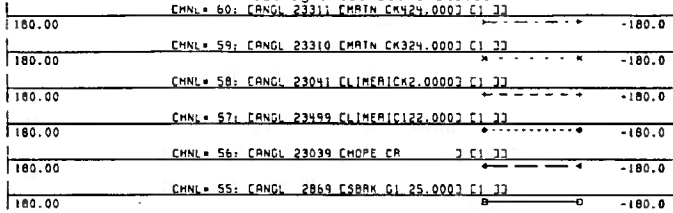
FRI, MAR 31 2000 9:40
RUN 048 PLOT 7



CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS1\RUND48.OUT
CHNL = 60: CANG1 23311 CHATN CK324.0007 C1 JJ



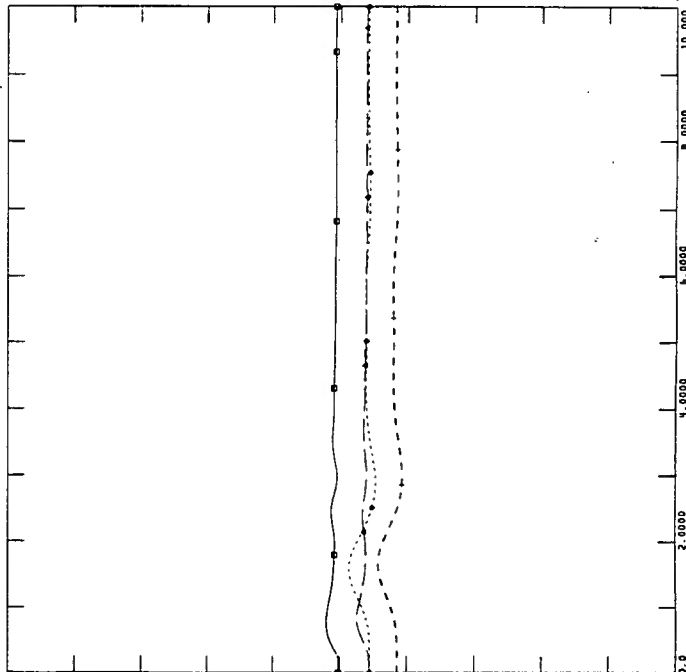
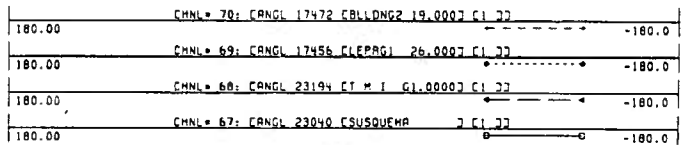
FRI, MAR 31 2000 9:40
RUN D48 PLOT 10



CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS1\RUND48.OUT
CHNL = 70: CANG1 17472 CBLDNG2 19.0007 C1 JJ



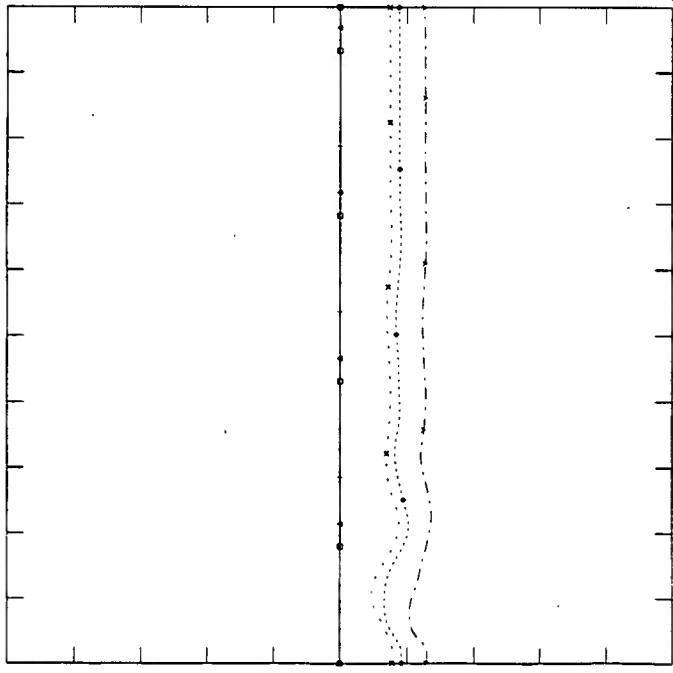
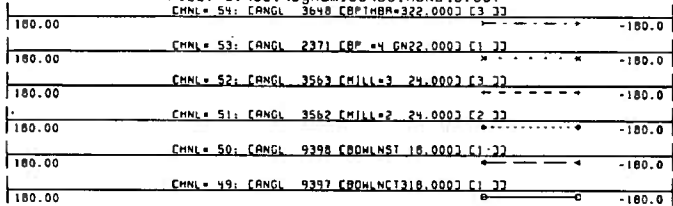
FRI, MAR 31 2000 9:40
RUN D48 PLOT 12



CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS1\RUND48.OUT
CHNL = 54: CANG1 3648 CAPTHAN=322.0007 C3 JJ



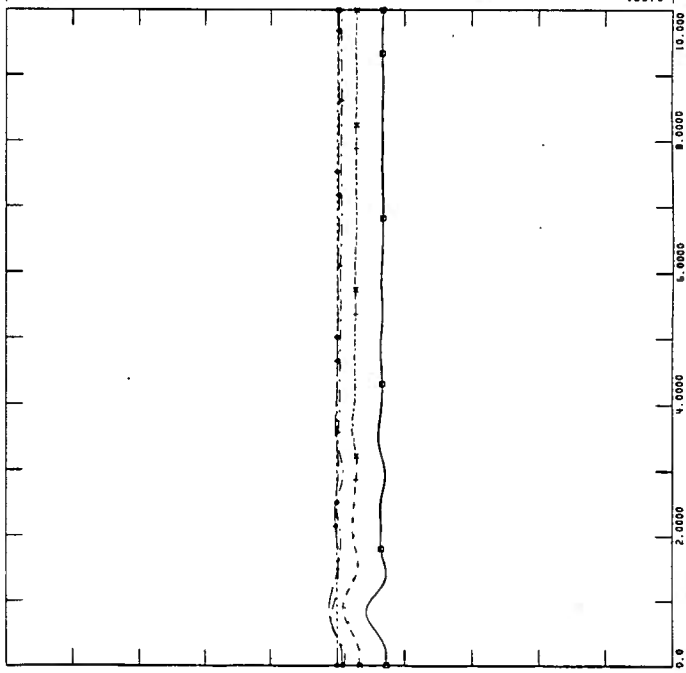
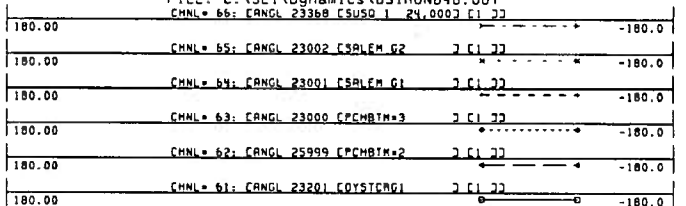
FRI, MAR 31 2000 9:40
RUN D48 PLOT 9



CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS1\RUND48.OUT
CHNL = 65: CANG1 23368 CSUS0.1 24.0007 C1 JJ



FRI, MAR 31 2000 9:40
RUN D48 PLOT 11



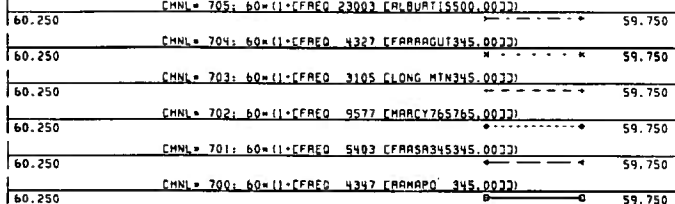
CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamics\DS1RUND4B.OUT

CHNL = 705: 60 (1)-(CFREQ 23003 [ALBUNT15500.007])

FRI, MAR 31 2000 9:40
RUN D4B PLOT 14

CASE DS1: 2001 SUMMER PEAK

BASE CASE

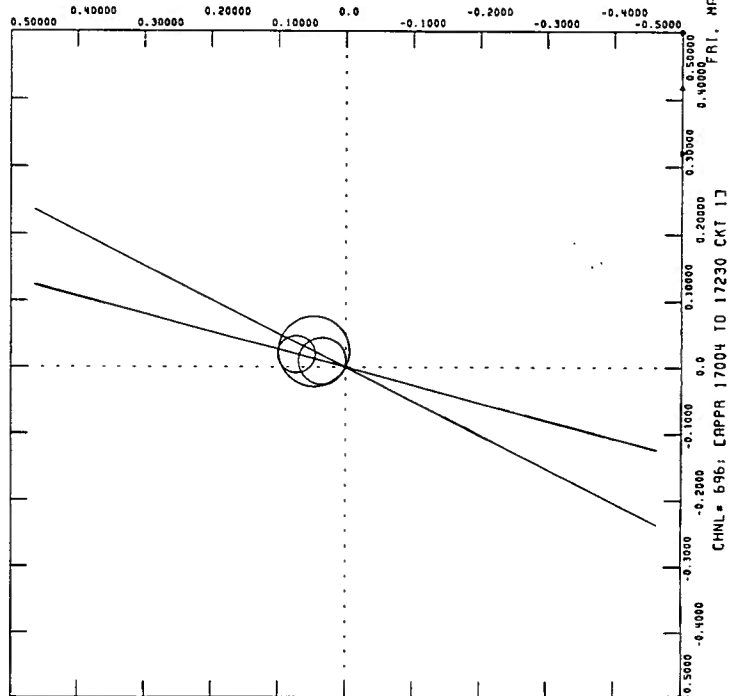
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamics\DS1RUND4B.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25

CHNL = 697: CAPPX 17004 TO 17230 CKT 13

FRI, MAR 31 2000 9:40
RUN D4B PLOT 16

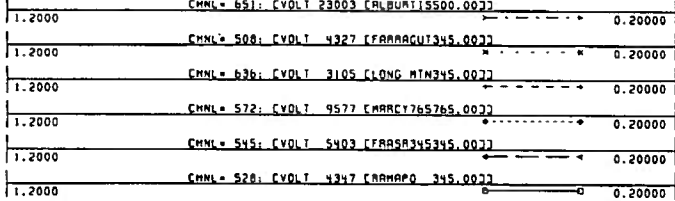
CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamics\DS1RUND4B.OUT

CHNL = 508: CVOLT 4327 [FARAAGUT345.007]

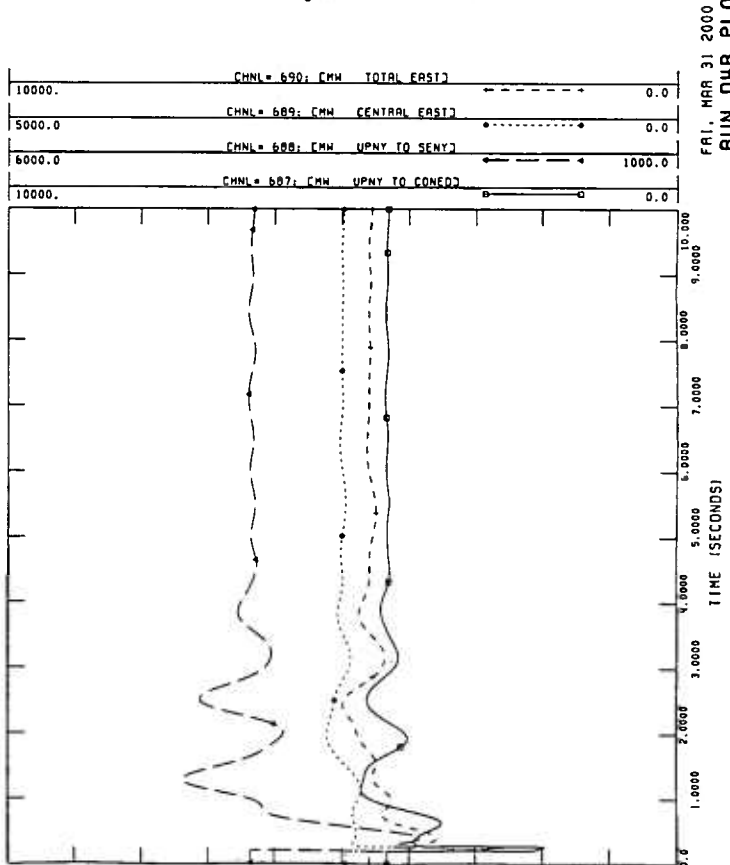
FRI, MAR 31 2000 9:40
RUN D4B PLOT 13

CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamics\DS1RUND4B.OUT

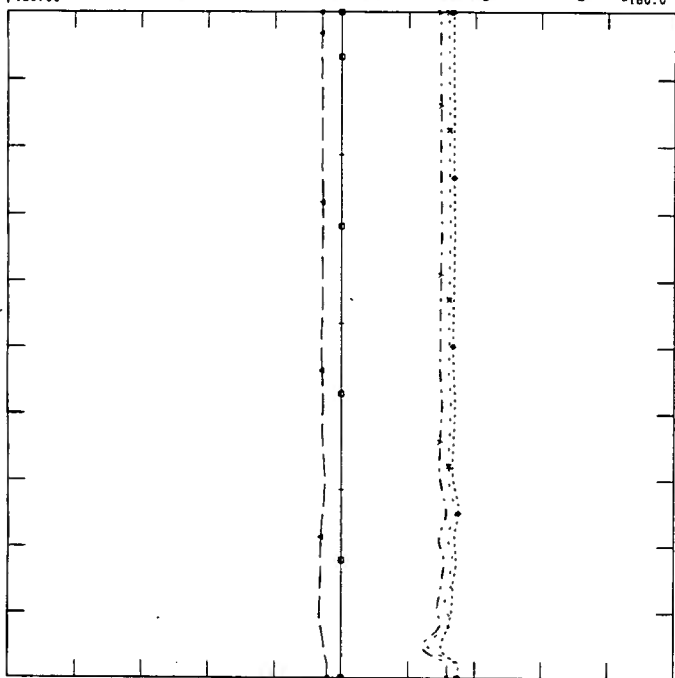
FRI, MAR 31 2000 9:40
RUN D4B PLOT 15

CONTINGENCY D4C

RECOVER FROM D1.SNP AND DS1.CNV
START OUTPUT DS1RUND4C.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4312 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN N
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4312 TO BUS 4317 CKT 1 / TRIP BUCHANAN-EASTVIEW
TRIP BRANCH FROM BUS 4317 TO BUS 4428 CKT 1 / TRIP EASTVIEW XFMR
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS1: 2001 SUMMER PEAK BASE CASE

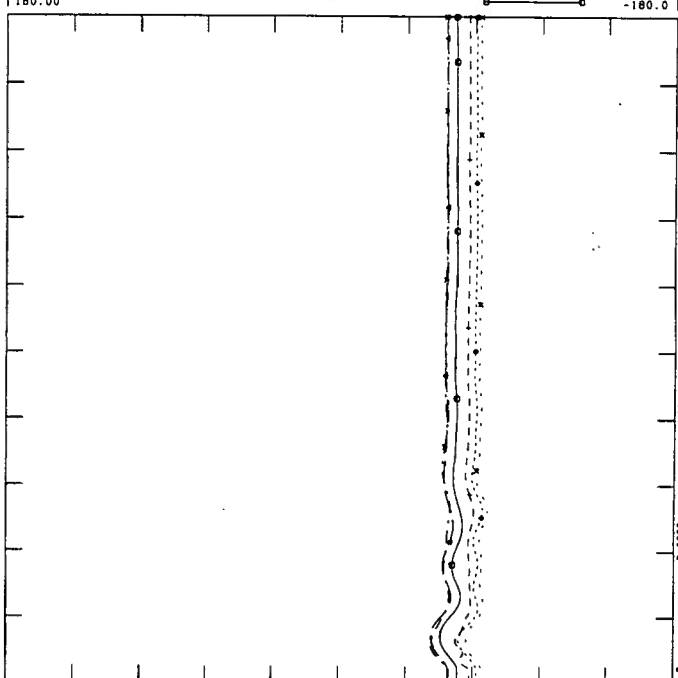
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW
 FILE: C:\SEI\Dynamic\DS1AUND4C.OUT
 CHNL = 12: CANGL 9390 C80WLINE 20.0000 C1 JJ
 CHNL = 11: CANGL 9394 CLOVETT 520.0000 C5 JJ
 CHNL = 10: CANGL 4192 CADOSE GN224.0000 C2 JJ
 CHNL = 9: CANGL 4190 CADOSE GN124.0000 C1 JJ
 CHNL = 8: CANGL 5523 CKINTIG2424.0000 C1 JJ
 CHNL = 7: CANGL 7953 COSWGO 6022.0000 C6 JJ



FRI, MAR 31 2000 9:40
 RUN D4C PLOT 2

CASE DS1: 2001 SUMMER PEAK BASE CASE

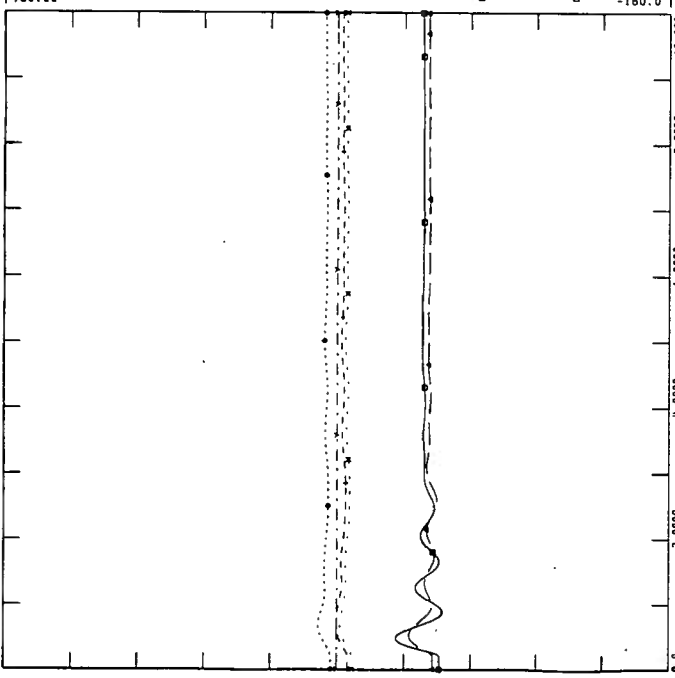
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW
 FILE: C:\SEI\Dynamic\DS1AUND4C.OUT
 CHNL = 23: CANGL 4702 CARY 3 22.0000 C2 JJ
 CHNL = 22: CANGL 4702 CARY 3 22.0000 C1 JJ
 CHNL = 21: CANGL 9546 CPOLETT 26.0000 C1 JJ
 CHNL = 20: CANGL 4907 CNATPTG2 22.0000 C1 JJ
 CHNL = 19: CANGL 4906 CNATPTG1 22.0000 C1 JJ



FRI, MAR 31 2000 9:40
 RUN D4C PLOT 4

CASE DS1: 2001 SUMMER PEAK BASE CASE

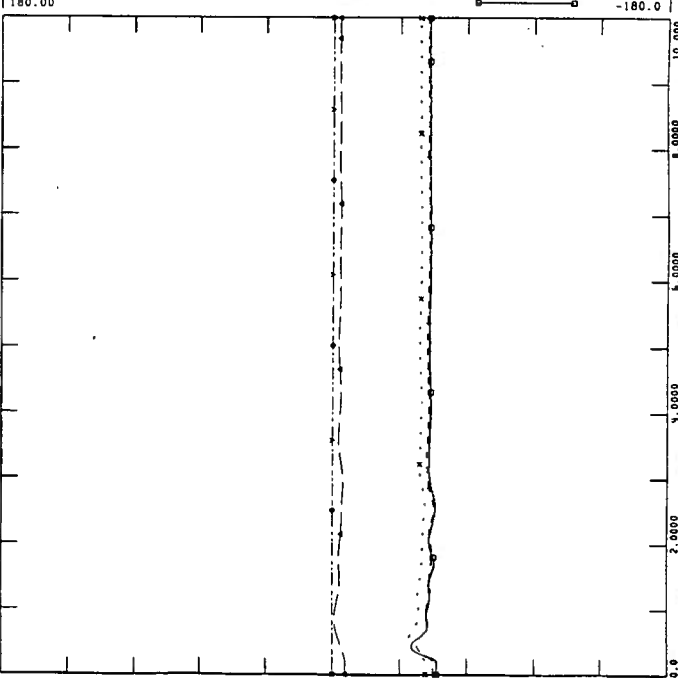
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW
 FILE: C:\SEI\Dynamic\DS1AUND4C.OUT
 CHNL = 6: CANGL 7952 COSWGO 5022.0000 C5 JJ
 CHNL = 5: CANGL 9547 C JAFITIG24.0000 C1 JJ
 CHNL = 4: CANGL 7950 C9M PT 2025.0000 C2 JJ
 CHNL = 3: CANGL 7951 C9M PT 1023.0000 C1 JJ
 CHNL = 2: CANGL 9548 CIP=3 CEN22.0000 C1 JJ
 CHNL = 1: CANGL 4701 CIND PT 222.0000 C2 JJ



FRI, MAR 31 2000 9:40
 RUN D4C PLOT 1

CASE DS1: 2001 SUMMER PEAK BASE CASE

RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW
 FILE: C:\SEI\Dynamic\DS1AUND4C.OUT
 CHNL = 18: CANGL 9520 CGILB09=217.0000 C2 JJ
 CHNL = 17: CANGL 9527 CGILB09=117.0000 C1 JJ
 CHNL = 16: CANGL 4193 CDANSK C416.1000 C4 JJ
 CHNL = 15: CANGL 8701 CLEEDS 3 345.0000 C1 JJ
 CHNL = 14: CANGL 9940 CGINNA 1919.0000 C1 JJ
 CHNL = 13: CANGL 9391 C80WLINE2020.0000 C2 JJ



FRI, MAR 31 2000 9:40
 RUN D4C PLOT 3



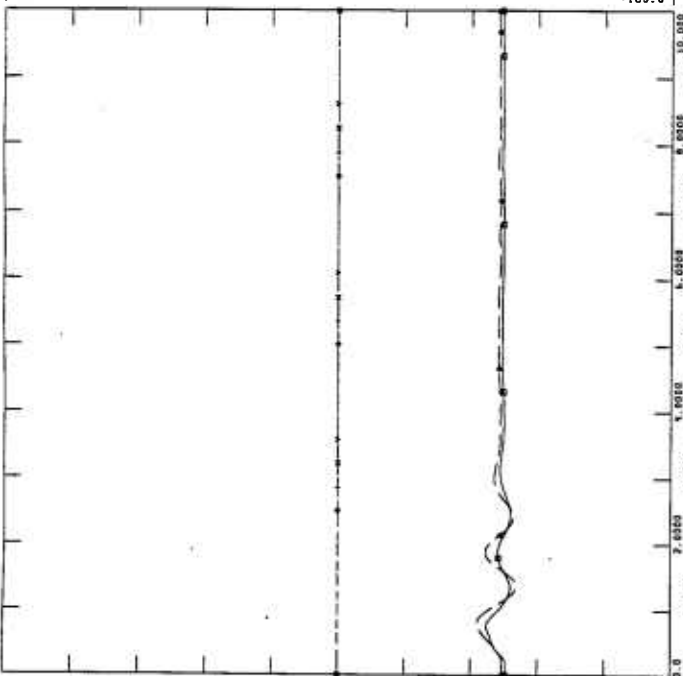
CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DS1RUND4C.OUT
CHNL= 35: CANGI 4357 CSITH GT218.0007 C1 JJ

CHNL= 35: CANGI 4353 CSITH GT218.0007 C1 JJ
CHNL= 34: CANGI 4352 CSITH GT118.0007 C1 JJ
CHNL= 33: CANGI 4358 CSITH STM16.0007 C1 JJ
CHNL= 32: CANGI 4706 CAST 5 20.0007 C2 JJ
CHNL= 31: CANGI 4706 CAST 5 20.0007 C1 JJ



FRI, MAR 31 2000 9:40
RUN D4C PLOT 6



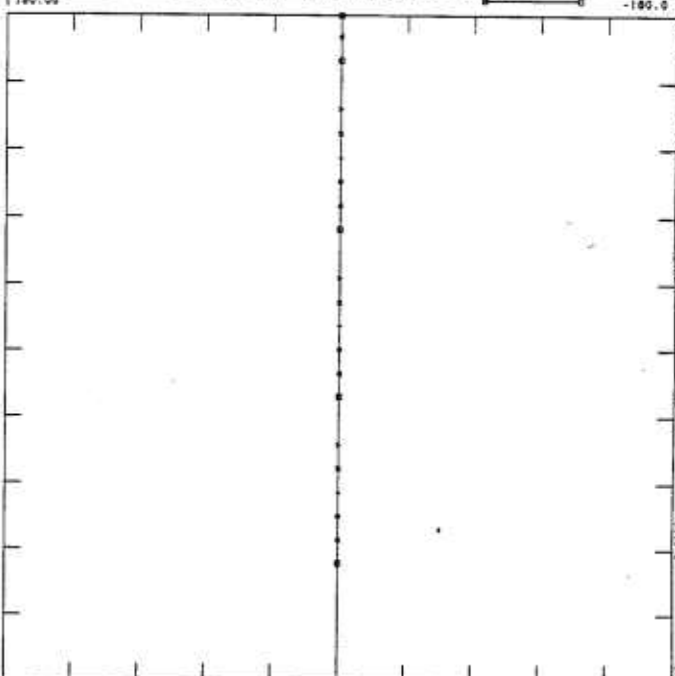
CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DS1RUND4C.OUT
CHNL= 48: CANGI 9396 C80WLNCT18.0007 C1 JJ

CHNL= 47: CANGI 9395 C80WLNCT18.0007 C1 JJ
CHNL= 46: CANGI 8711 CATHENSST18.0007 C1 JJ
CHNL= 45: CANGI 8710 CATHENSST18.0007 C1 JJ
CHNL= 44: CANGI 8709 CATHENSST18.0007 C1 JJ
CHNL= 43: CANGI 8708 CATHENSST18.0007 C1 JJ



FRI, MAR 31 2000 9:40
RUN D4C PLOT 8



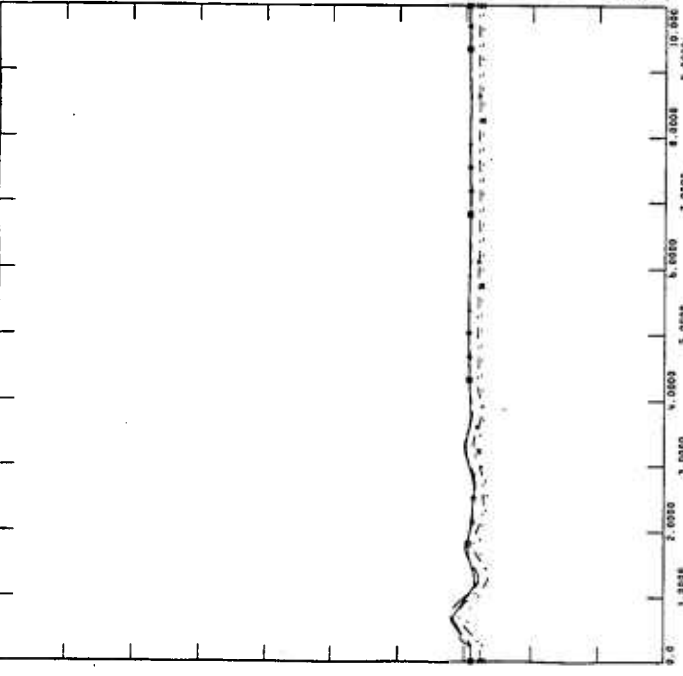
CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DS1RUND4C.OUT
CHNL= 30: CANGI 4705 CAST 4 20.0007 C2 JJ

CHNL= 29: CANGI 4705 CAST 4 20.0007 C1 JJ
CHNL= 28: CANGI 4708 CARY 2 20.0007 C2 JJ
CHNL= 27: CANGI 4708 CARY 2 20.0007 C1 JJ
CHNL= 26: CANGI 4707 CARY 1 20.0007 C2 JJ
CHNL= 25: CANGI 4707 CARY 1 20.0007 C1 JJ



FRI, MAR 31 2000 9:40
RUN D4C PLOT 5



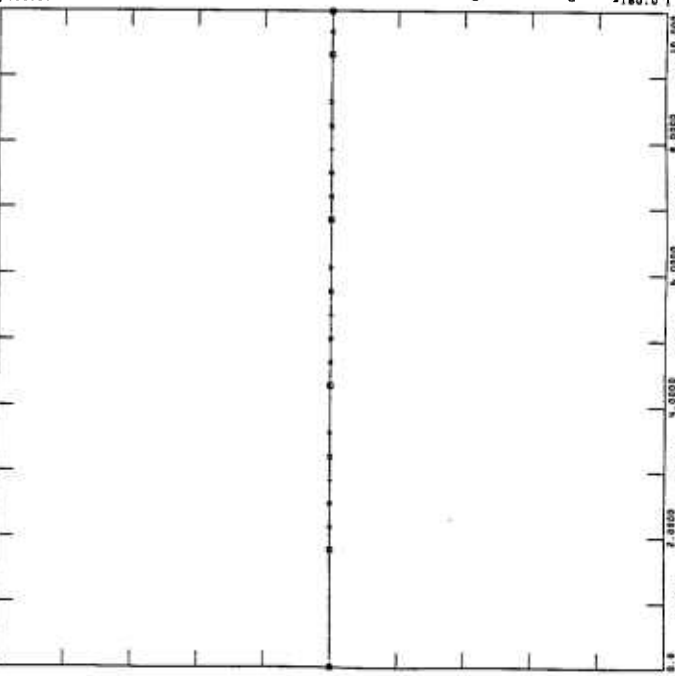
CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DS1RUND4C.OUT
CHNL= 42: CANGI 8707 CATHENSST18.0007 C1 JJ

CHNL= 41: CANGI 8706 CATHENSST18.0007 C1 JJ
CHNL= 40: CANGI 4354 CANPCT4 21.0007 C4 JJ
CHNL= 39: CANGI 4353 CANPCT3 21.0007 C3 JJ
CHNL= 38: CANGI 4352 CANPCT2 21.0007 C2 JJ
CHNL= 37: CANGI 4351 CANPCT1 21.0007 C1 JJ



FRI, MAR 31 2000 9:40
RUN D4C PLOT 7

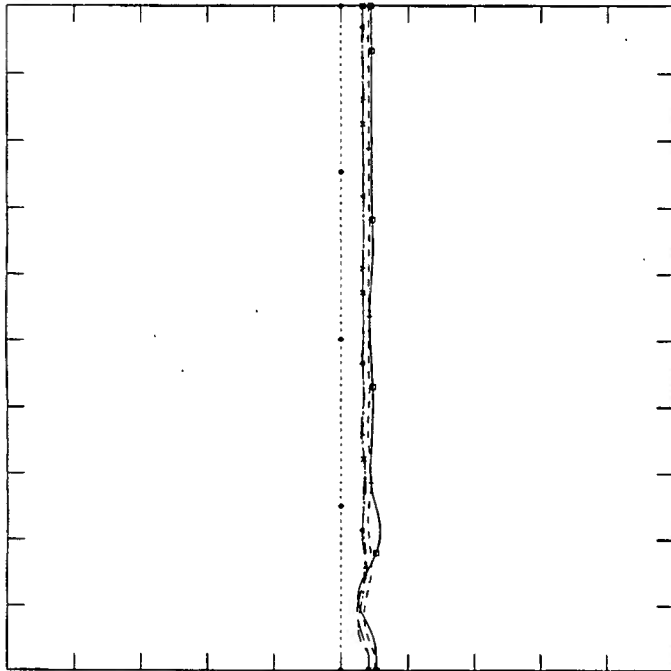
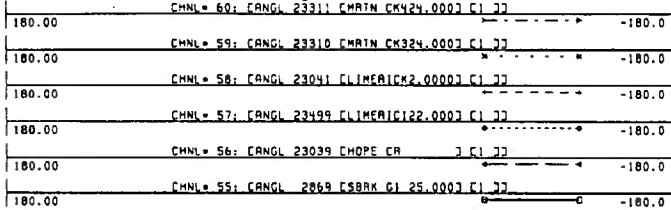


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DS1RUND4C.OUT
CHNL = 60: CANG1 2331 CHAIN CM324.0007 C1 JJ



FRI, MAR 31 2000 9:41
RUN D4C PLOT 10

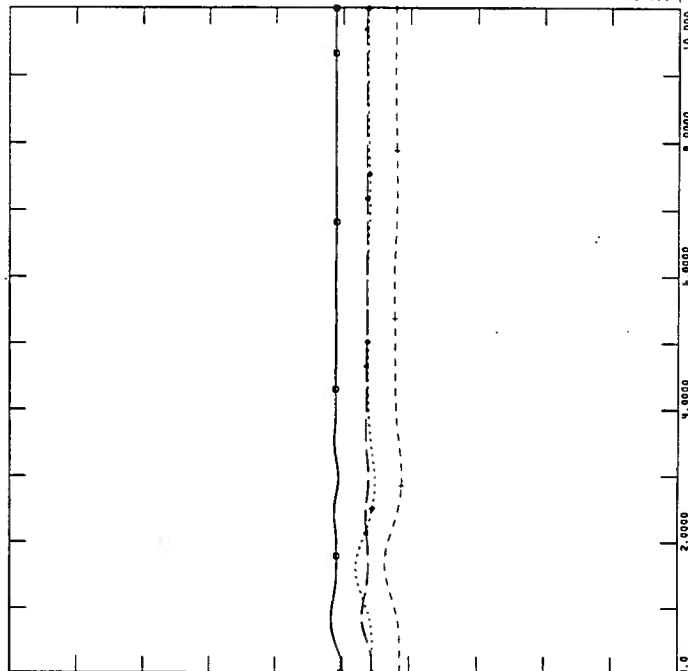
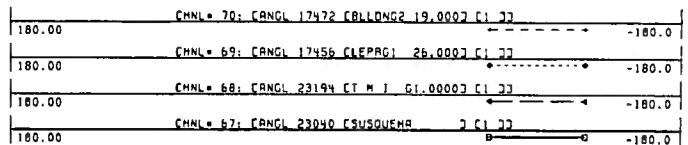


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DS1RUND4C.OUT



FRI, MAR 31 2000 9:41
RUN D4C PLOT 12

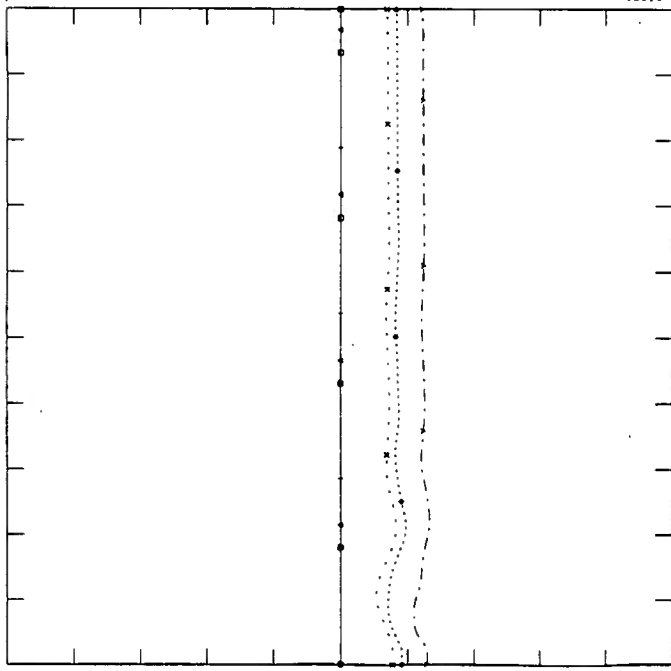
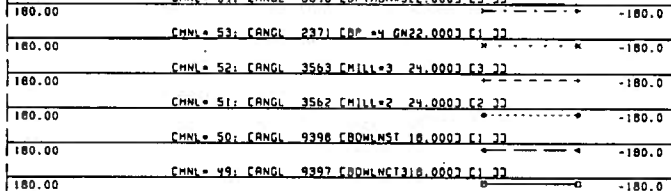


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DS1RUND4C.OUT
CHNL = 54: CANG1 3648 CBPTBA=322.0007 C3 JJ



FRI, MAR 31 2000 9:41
RUN D4C PLOT 9

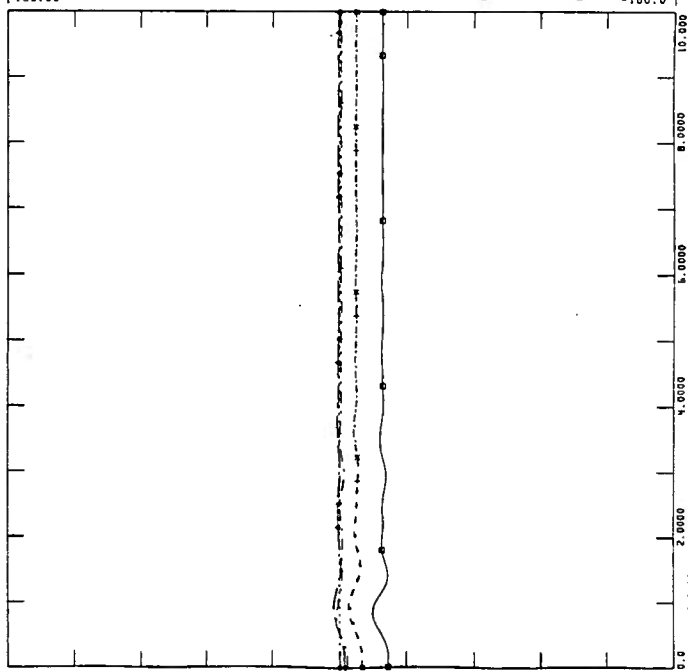
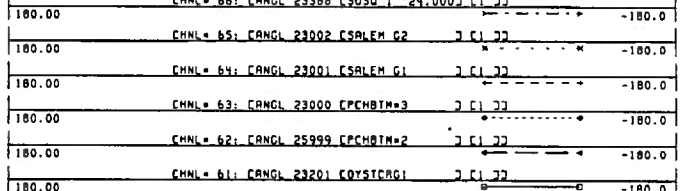


CASE DS1: 2001 SUMMER PEAK

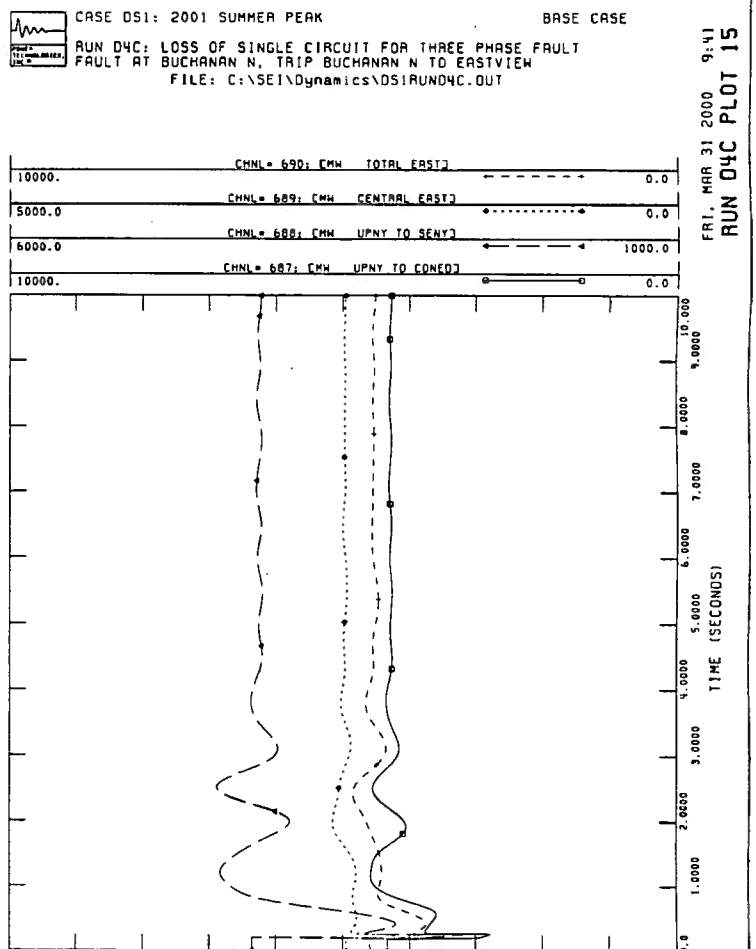
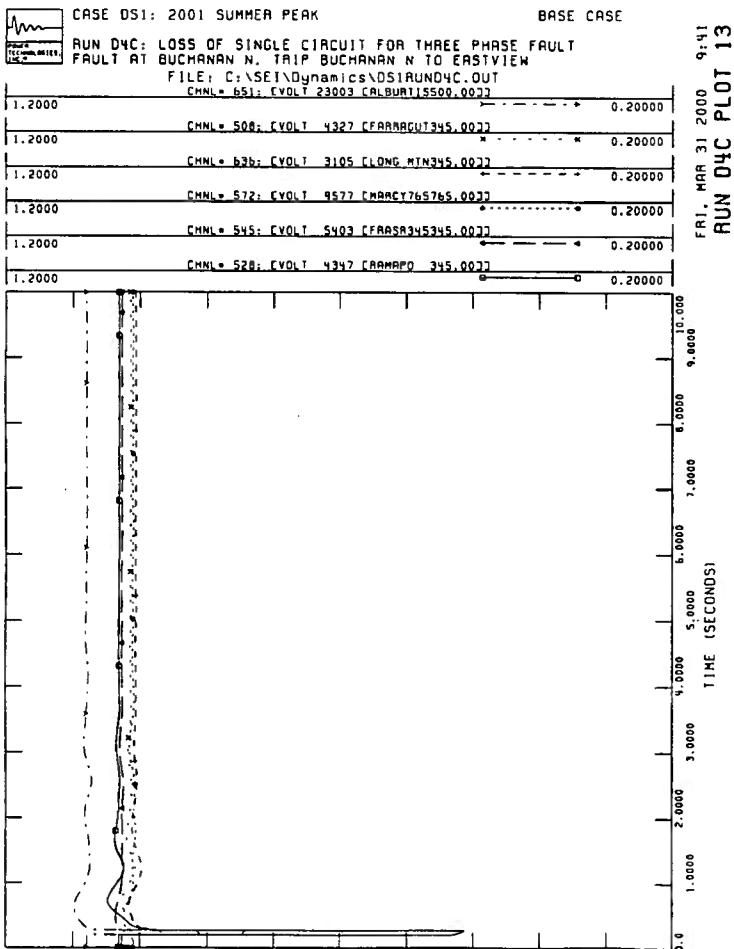
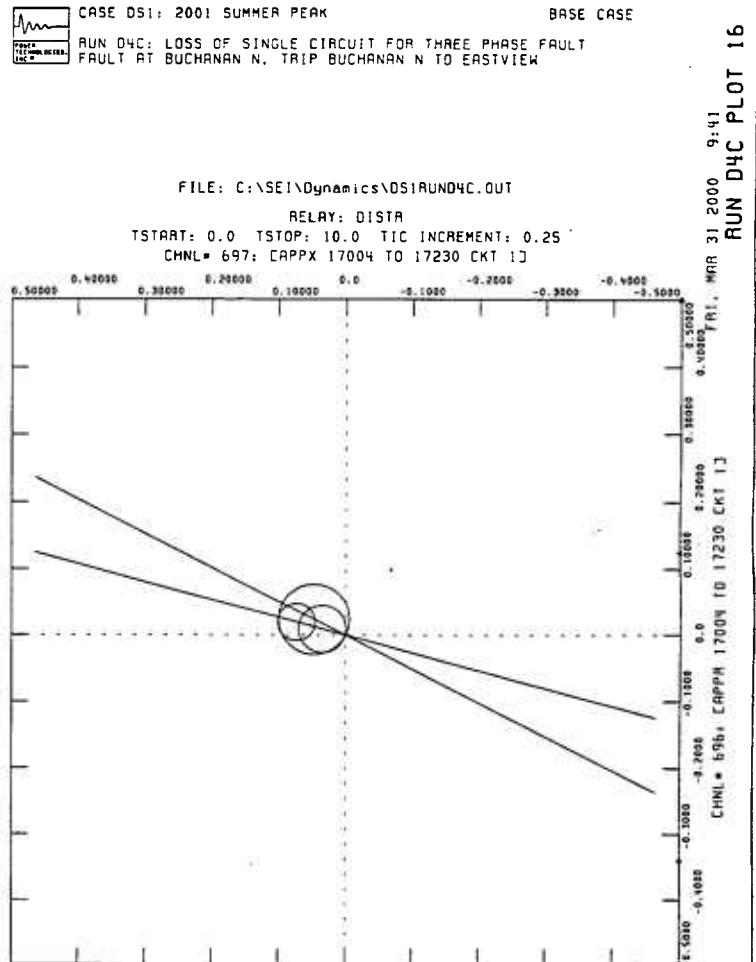
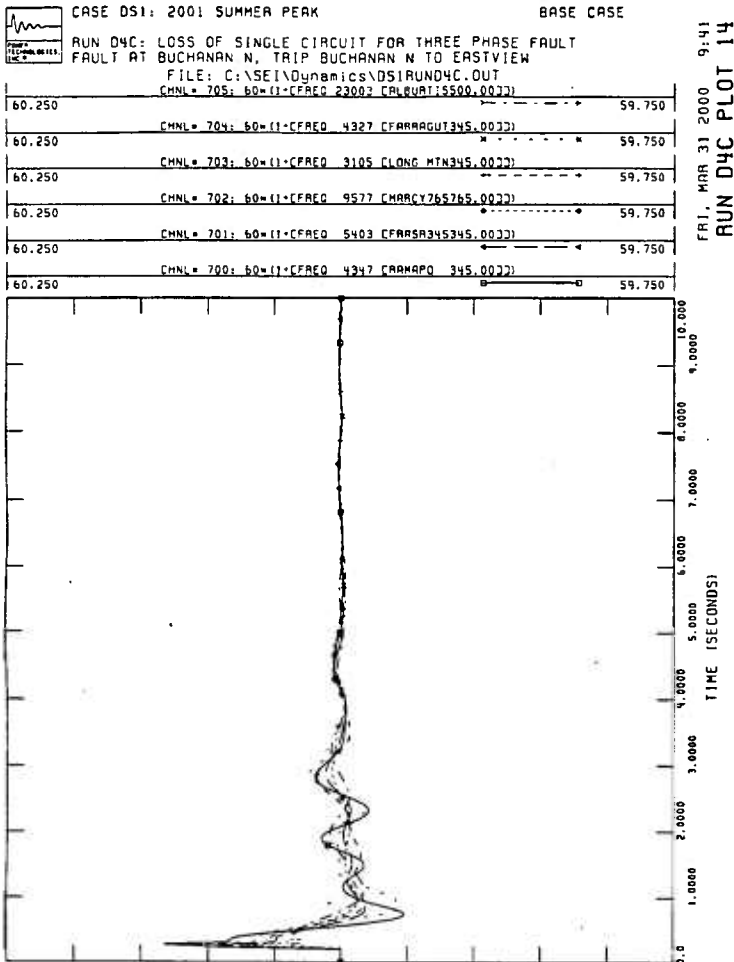
BASE CASE

RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DS1RUND4C.OUT
CHNL = 66: CANG1 23368 CSUSO 1 24.0007 C1 JJ

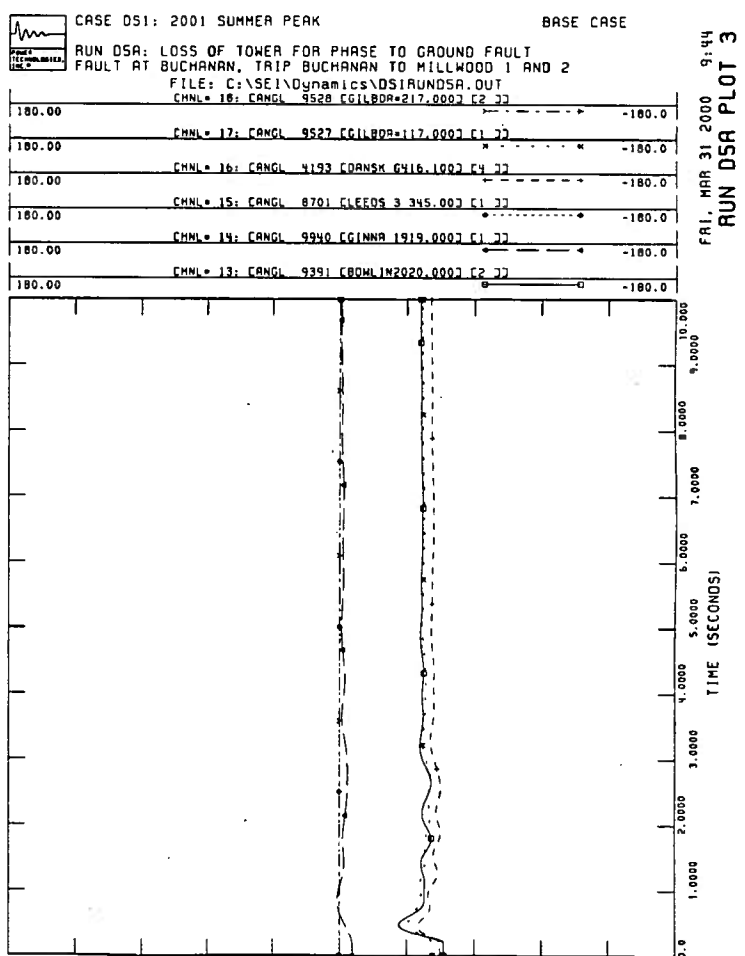
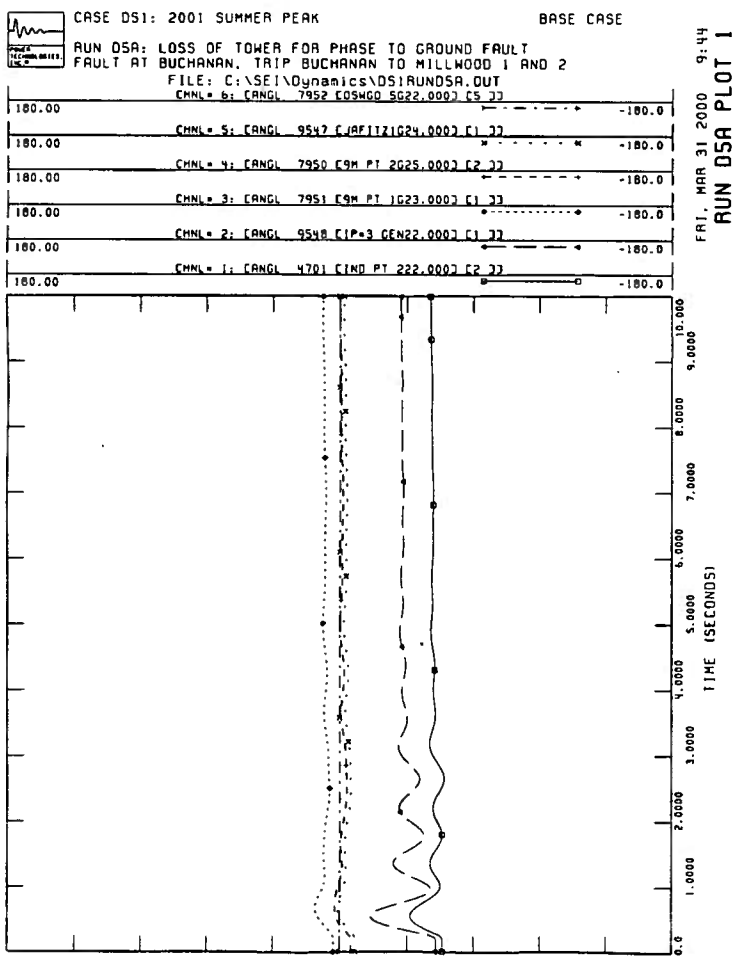
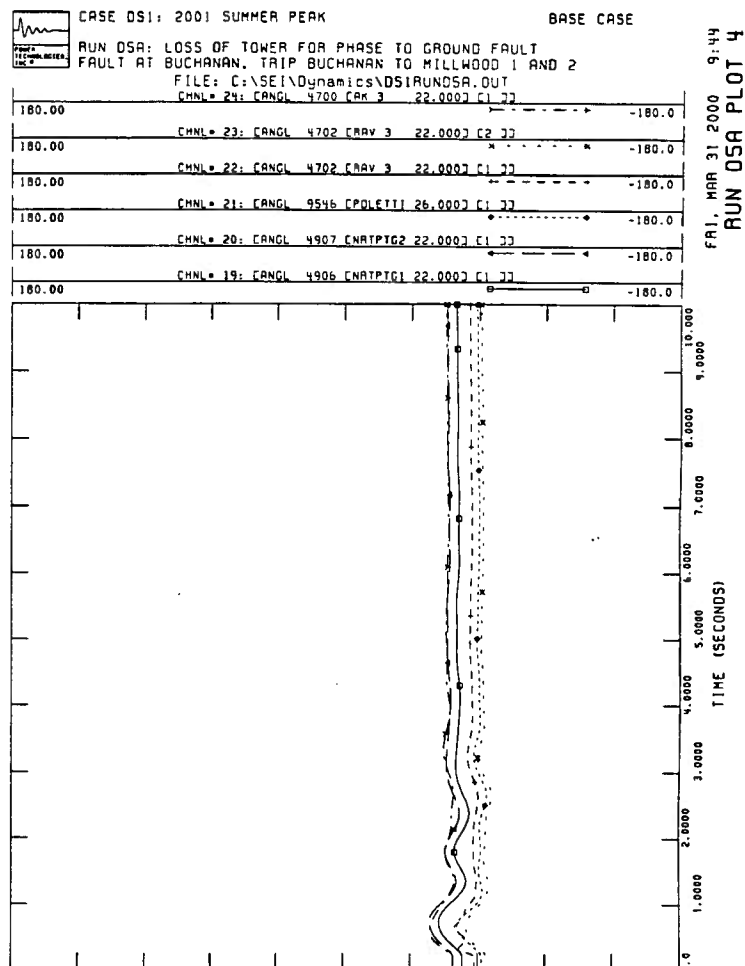
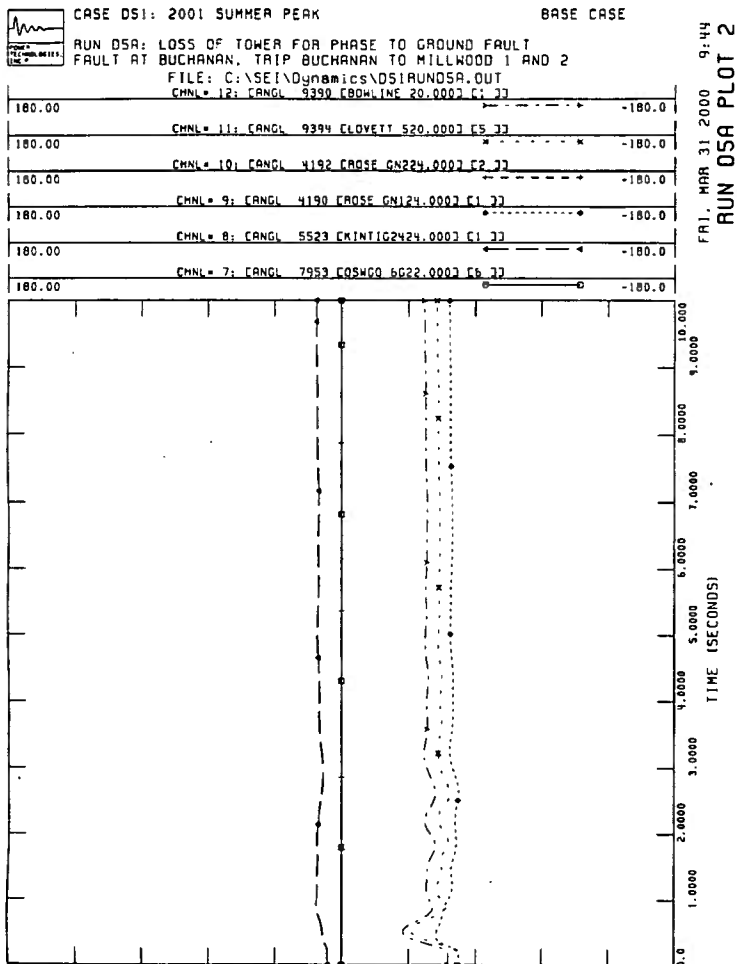


FRI, MAR 31 2000 9:41
RUN D4C PLOT 11



CONTINGENCY D5A

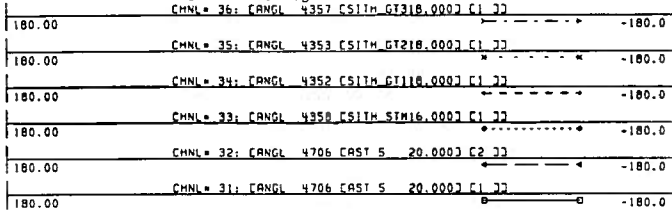
RECOVER FROM D1.SNP AND DS1.CNV
START OUTPUT DS1RUND5A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4313 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN S
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 1 / TRIP BUCHANAN S-MILLWOOD 1
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 2 / TRIP BUCHANAN S-MILLWOOD 2
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3





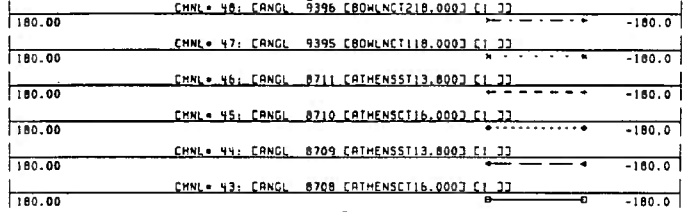
CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2FILE: C:\SEI\Dynamic\DS1A\RUNDSA.OUT
CHNL = 36: CANGL 4357 CS1TH GT118.0007 C1 JJFRI, MAR 31 2000 9:44
RUN DSA PLOT 6

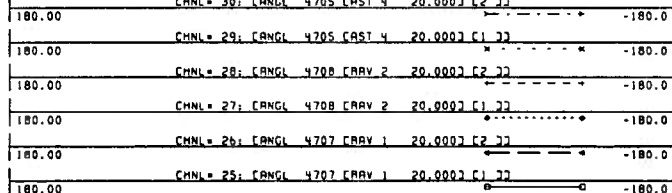
CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2FILE: C:\SEI\Dynamic\DS1A\RUNDSA.OUT
CHNL = 48: CANGL 9396 CBOWLNCT118.0007 C1 JJFRI, MAR 31 2000 9:44
RUN DSA PLOT 8

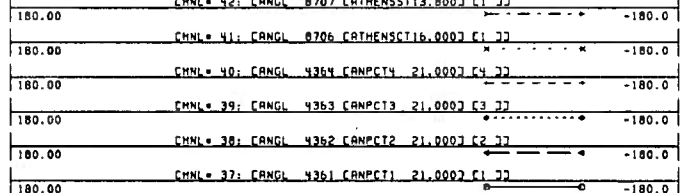
CASE DS1: 2001 SUMMER PEAK

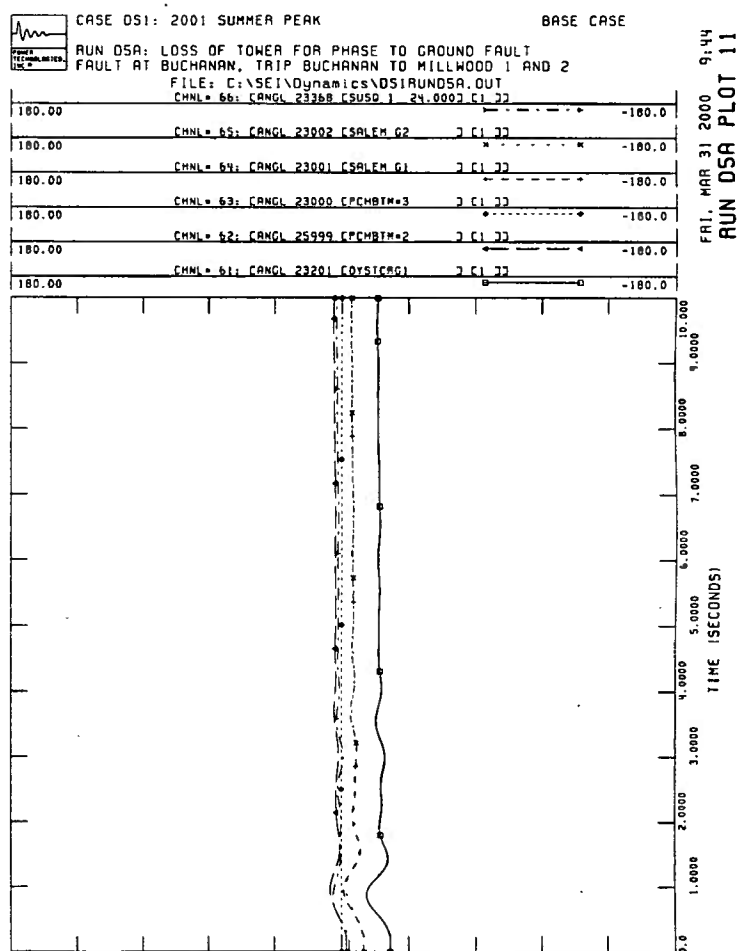
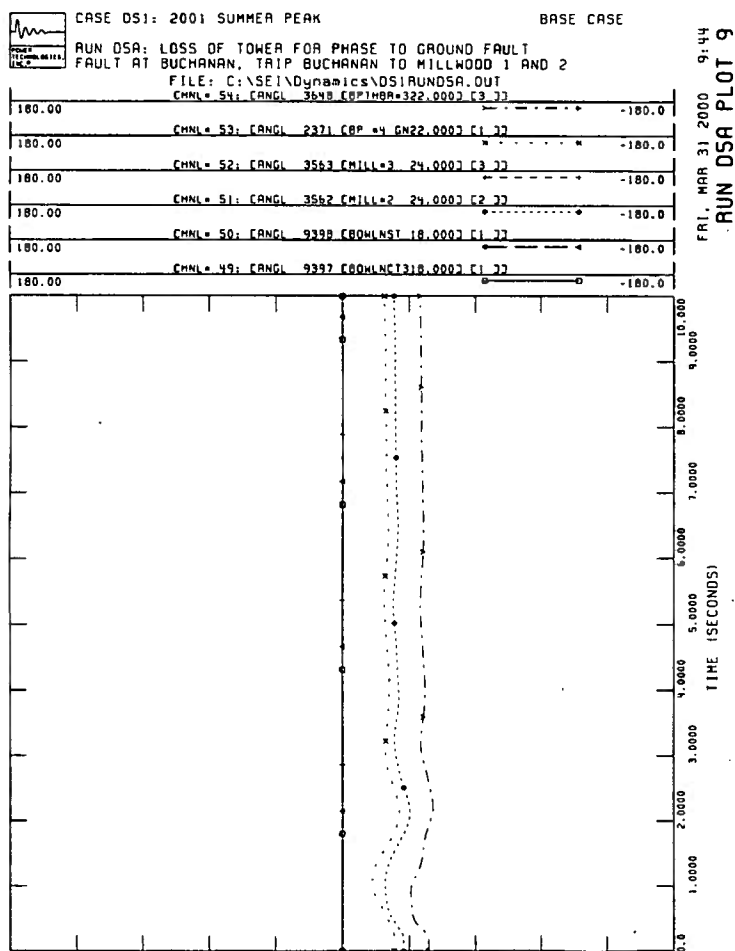
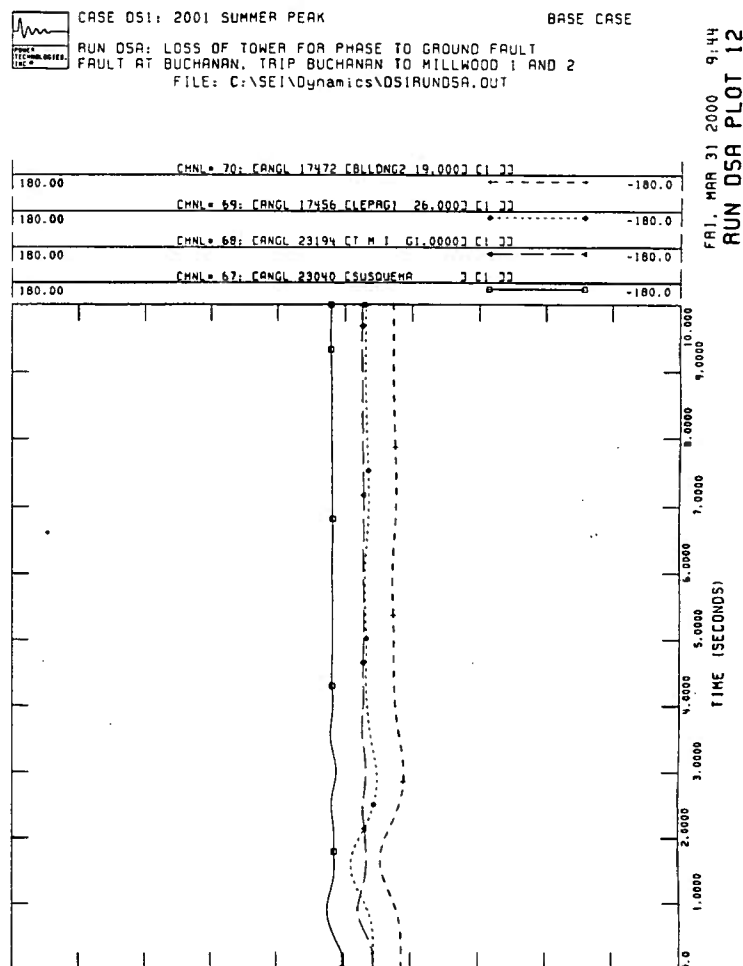
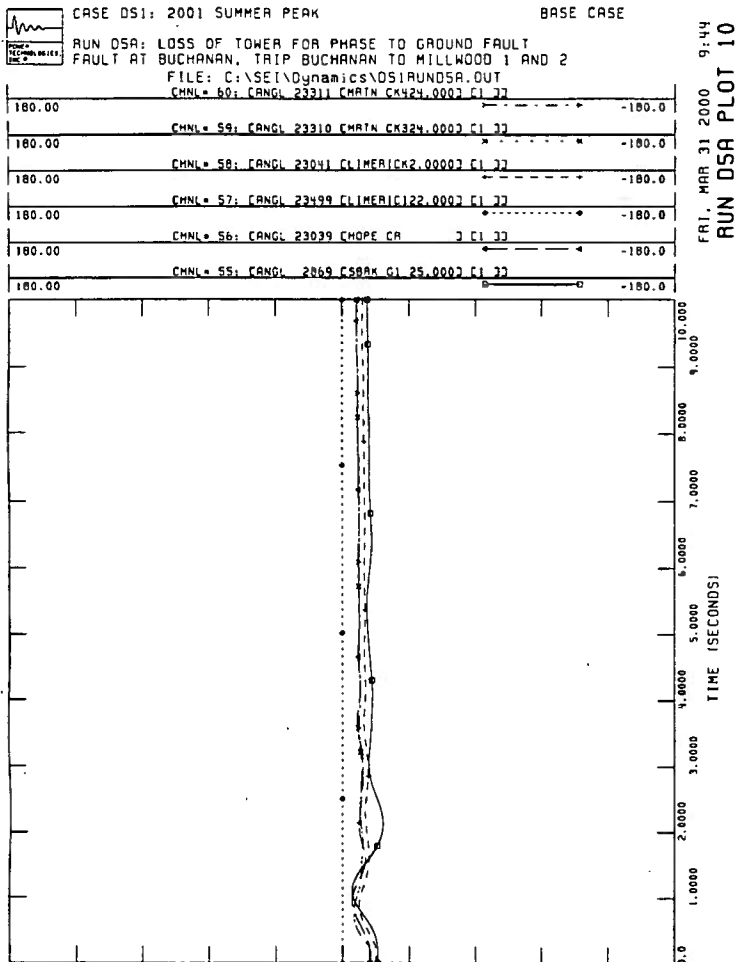
BASE CASE

RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2FILE: C:\SEI\Dynamic\DS1A\RUNDSA.OUT
CHNL = 30: CANGL 4705 CAST 4 20.0007 C2 JJFRI, MAR 31 2000 9:44
RUN DSA PLOT 5

CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2FILE: C:\SEI\Dynamic\DS1A\RUNDSA.OUT
CHNL = 42: CANGL 8707 CATHENSCT13.0007 C1 JJFRI, MAR 31 2000 9:44
RUN DSA PLOT 7

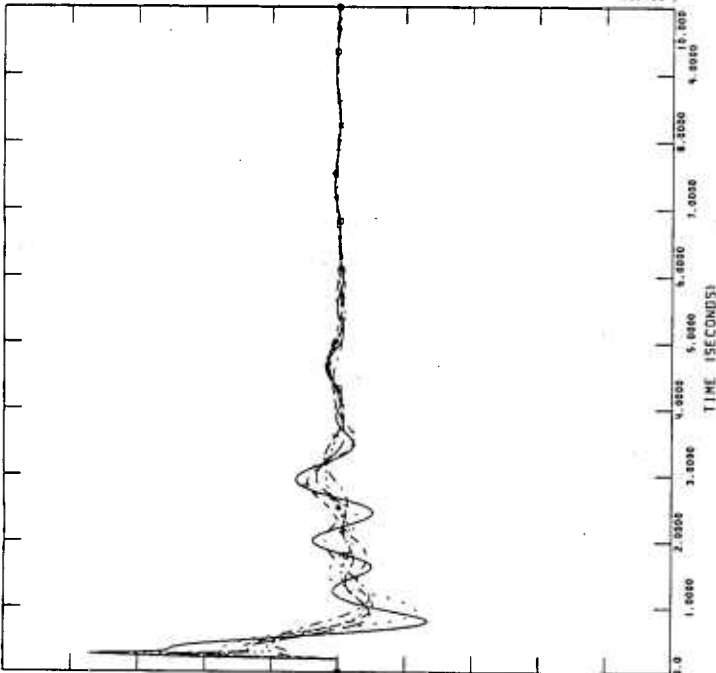
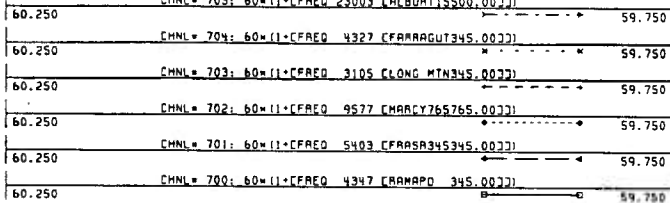




CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamics\DS1RUNDSA.OUT
CHNL = 705: 60 (1) CFREQ 23003 (ALBURY 5500.0033)



FRI, MAR 31 2000 9:44
RUN DSA PLOT 14

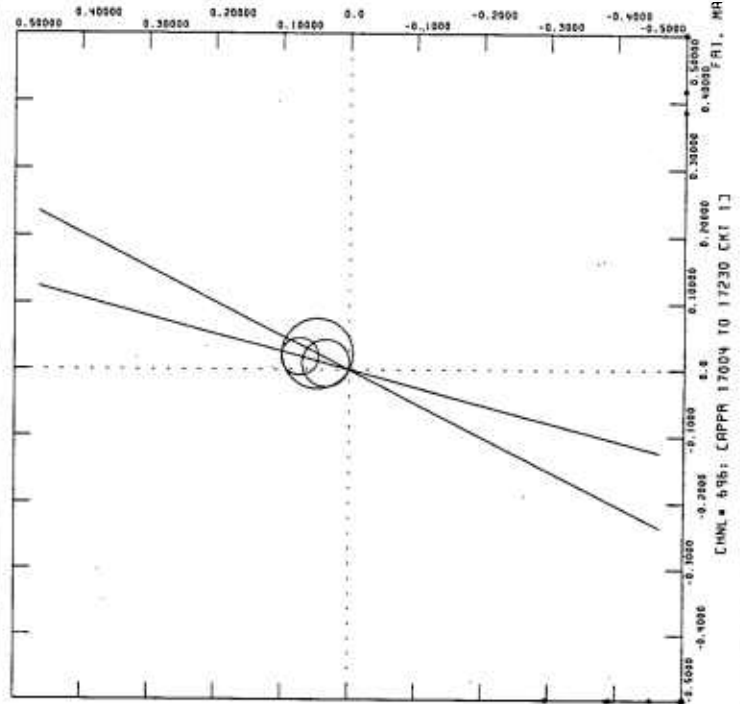


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamics\DS1RUNDSA.OUT

RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPX 17004 TO 17230 CKT 13



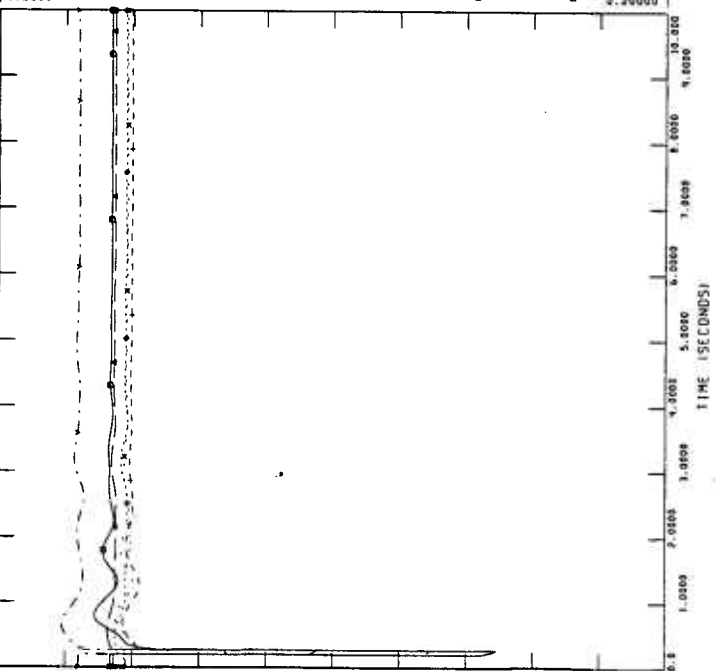
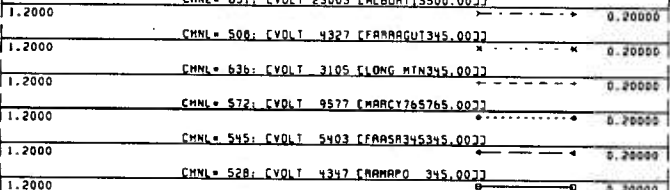
FRI, MAR 31 2000 9:44
RUN DSA PLOT 16



CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamics\DS1RUNDSA.OUT
CHNL = 651: CVOLT 23003 (ALBURY 5500.0033)



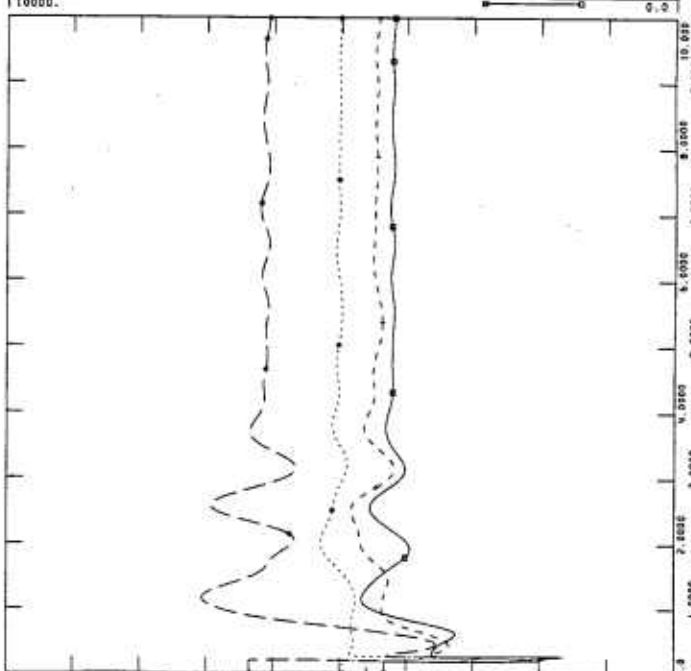
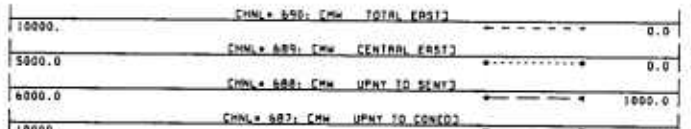
FRI, MAR 31 2000 9:44
RUN DSA PLOT 13



CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamics\DS1RUNDSA.OUT



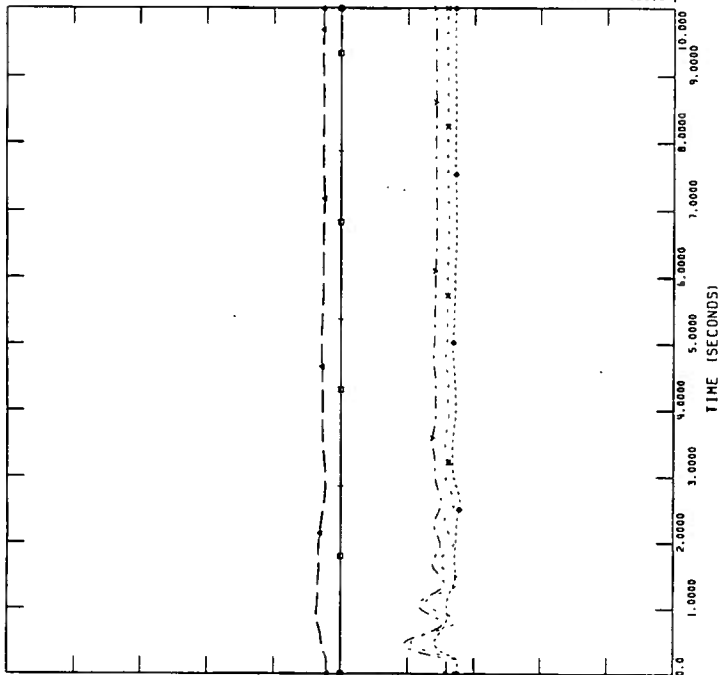
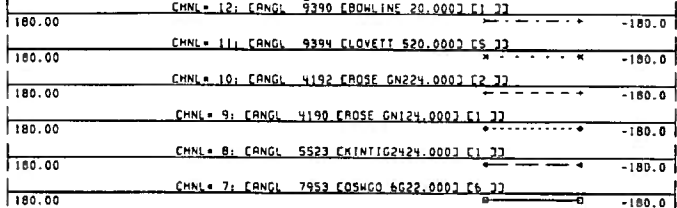
FRI, MAR 31 2000 9:44
RUN DSA PLOT 15

CONTINGENCY E1A

RECOVER FROM D1.SNP AND DS1.CNV
START OUTPUT DS1RUNE1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS1: 2001 SUMMER PEAK BASE CASE

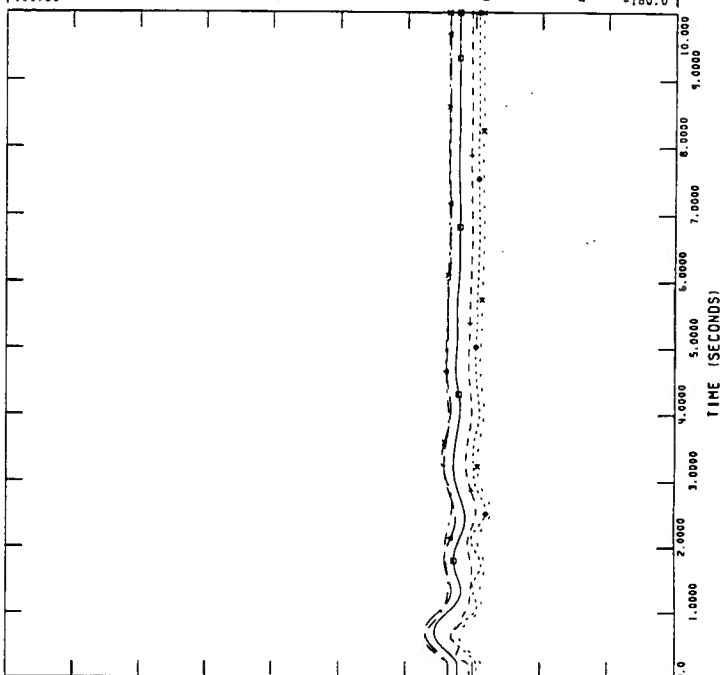
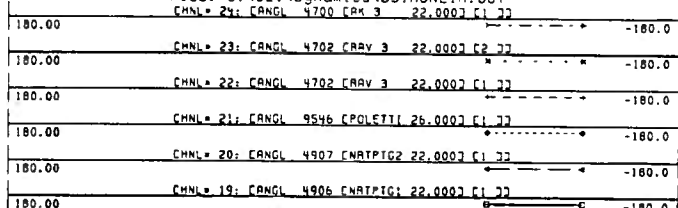
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS1AUNE1A.OUT
CHNL = 12: CANGL 9390 CROHLIN 20.0002 C1 JJ



FRI, MAR 31 2000 9:44
RUN E1A PLOT 2

CASE DS1: 2001 SUMMER PEAK BASE CASE

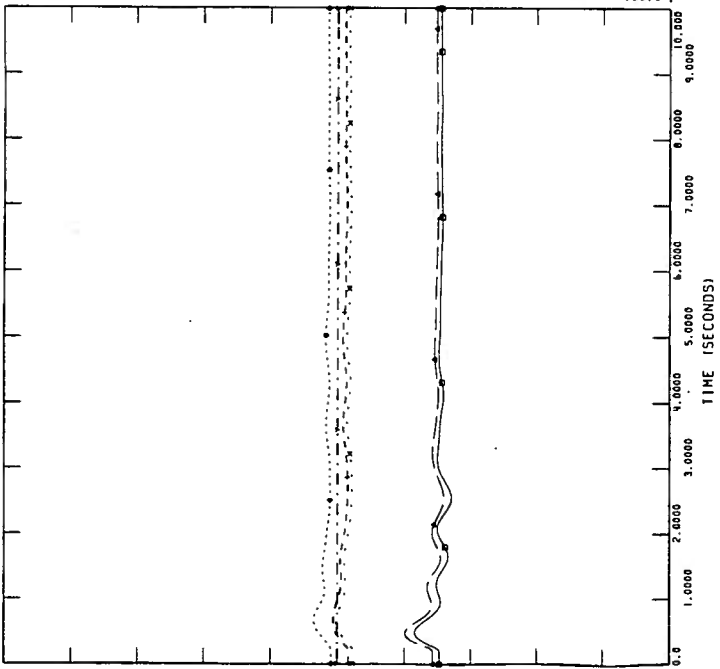
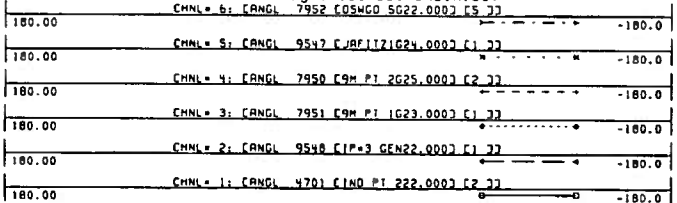
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS1AUNE1A.OUT
CHNL = 24: CANGL 4702 CARV 3 22.0002 C2 JJ



FRI, MAR 31 2000 9:44
RUN E1A PLOT 4

CASE DS1: 2001 SUMMER PEAK BASE CASE

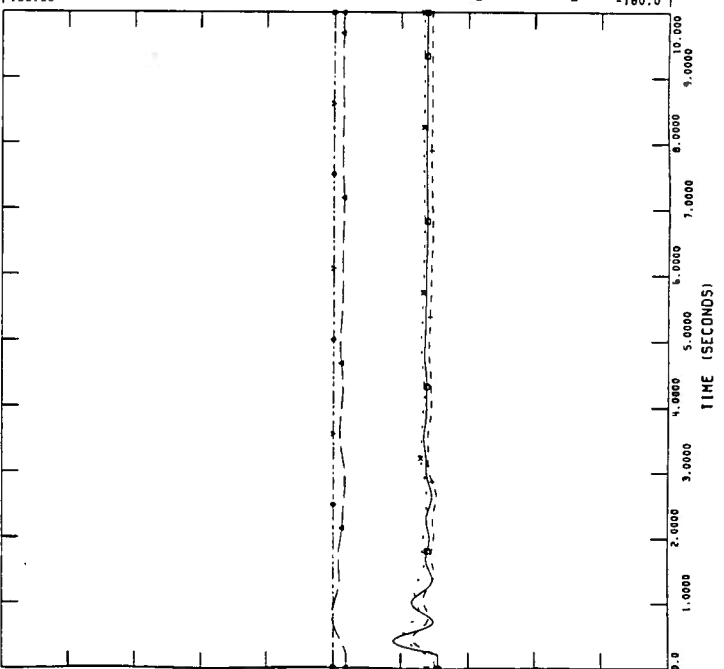
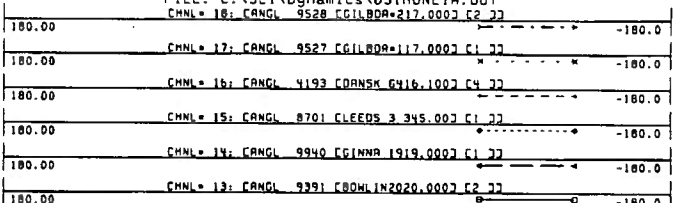
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS1AUNE1A.OUT
CHNL = 6: CANGL 7952 COSMGO SG22.0002 C5 JJ



FRI, MAR 31 2000 9:44
RUN E1A PLOT 1

CASE DS1: 2001 SUMMER PEAK BASE CASE

RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS1AUNE1A.OUT
CHNL = 18: CANGL 9528 CGLBDA=217.0002 C2 JJ

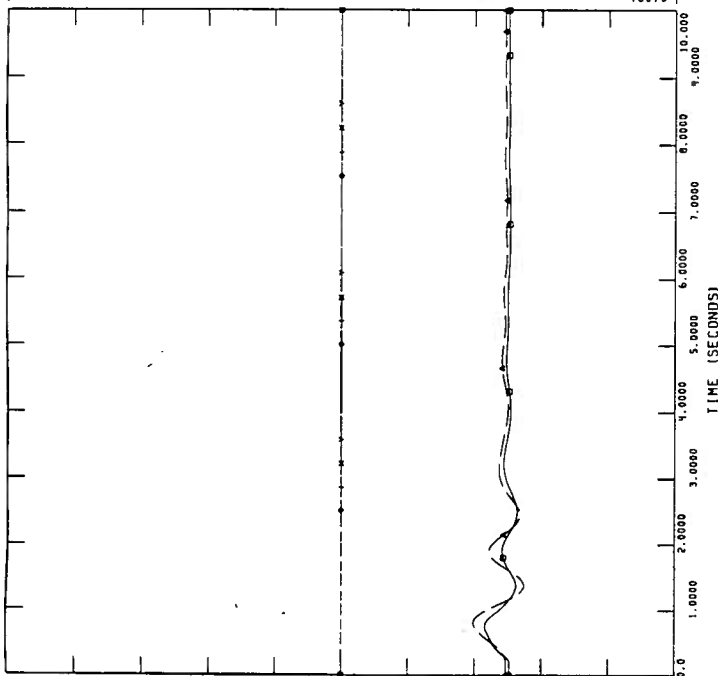


FRI, MAR 31 2000 9:44
RUN E1A PLOT 3

CASE DS1: 2001 SUMMER PEAK BASE CASE

RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPD
FILE: C:\SEI\Dynamic\DS1AUNE1A.OUT
CHNL = 35: CANGL 4353 CS1TH GT18.000 C1 JJ

CHNL = 35: CANGL 4353 CS1TH GT18.000 C1 JJ
CHNL = 34: CANGL 4352 CS1TH GT18.000 C1 JJ
CHNL = 33: CANGL 4358 CS1TH GT18.000 C1 JJ
CHNL = 32: CANGL 4706 CAST 5 20.000 C2 JJ
CHNL = 31: CANGL 4706 CAST 5 20.000 C1 JJ

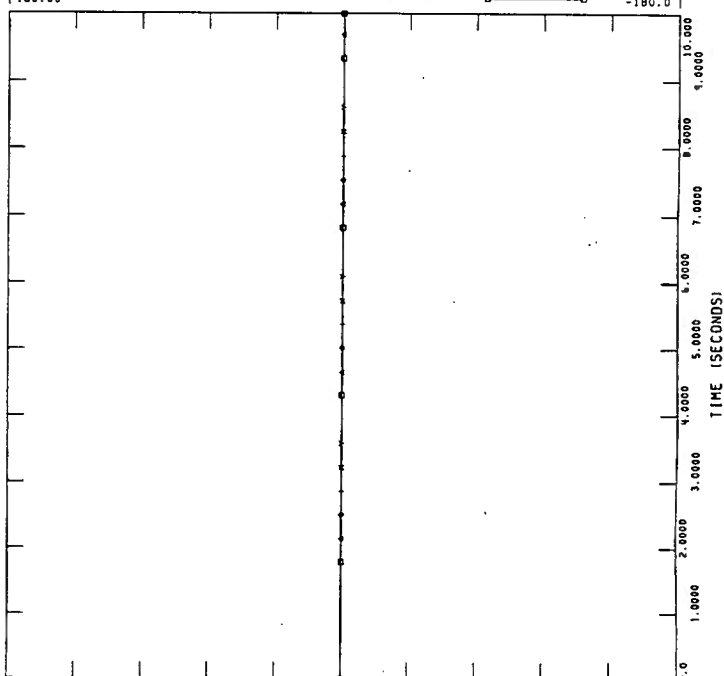


RUN E1A PLOT 6
FRI, MAR 31 2000 9:44

CASE DS1: 2001 SUMMER PEAK BASE CASE

RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPD
FILE: C:\SEI\Dynamic\DS1AUNE1A.OUT
CHNL = 48: CANGL 9395 CBOWLNC118.000 C1 JJ

CHNL = 47: CANGL 9395 CBOWLNC118.000 C1 JJ
CHNL = 46: CANGL 8711 CATHENSCT18.000 C1 JJ
CHNL = 45: CANGL 8710 CATHENSCT18.000 C1 JJ
CHNL = 44: CANGL 8709 CATHENSCT18.000 C1 JJ
CHNL = 43: CANGL 8708 CATHENSCT18.000 C1 JJ

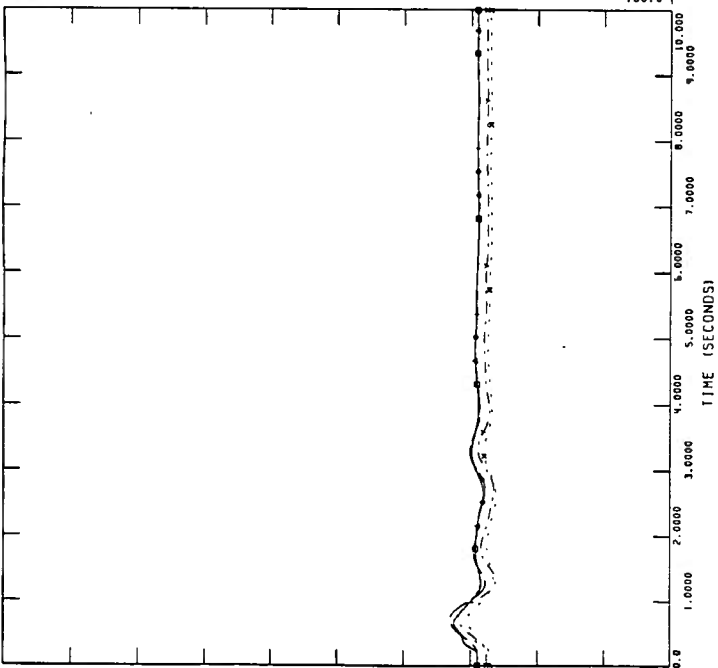


RUN E1A PLOT 8
FRI, MAR 31 2000 9:44

CASE DS1: 2001 SUMMER PEAK BASE CASE

RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPD
FILE: C:\SEI\Dynamic\DS1AUNE1A.OUT
CHNL = 39: CANGL 4705 CAST 4 20.000 C2 JJ

CHNL = 29: CANGL 4705 CAST 4 20.000 C1 JJ
CHNL = 28: CANGL 4708 CARV 2 20.000 C2 JJ
CHNL = 27: CANGL 4708 CARV 2 20.000 C1 JJ
CHNL = 26: CANGL 4707 CARV 1 20.000 C2 JJ
CHNL = 25: CANGL 4707 CARV 1 20.000 C1 JJ

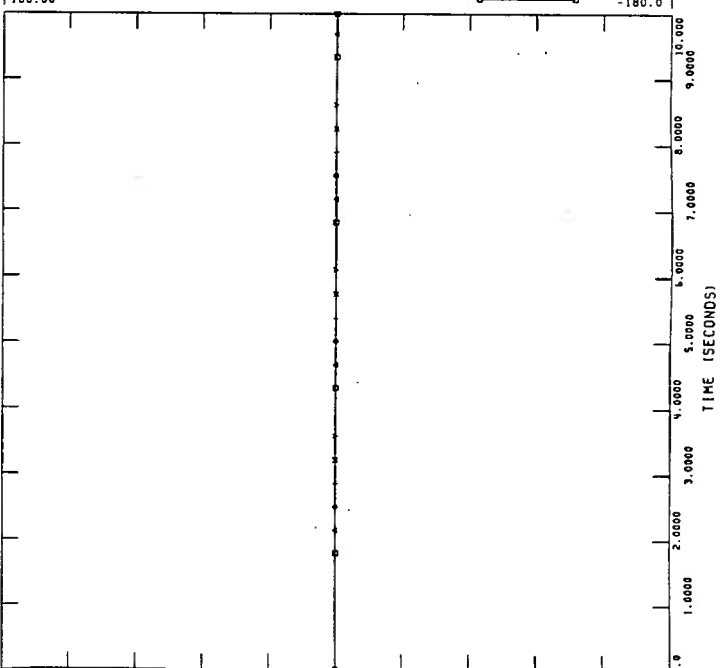


RUN E1A PLOT 5
FRI, MAR 31 2000 9:44

CASE DS1: 2001 SUMMER PEAK BASE CASE

RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPD
FILE: C:\SEI\Dynamic\DS1AUNE1A.OUT
CHNL = 42: CANGL 8707 CATHENSCT18.000 C1 JJ

CHNL = 41: CANGL 8706 CATHENSCT18.000 C1 JJ
CHNL = 40: CANGL 4364 CANPCT4 21.000 C4 JJ
CHNL = 39: CANGL 4363 CANPCT3 21.000 C3 JJ
CHNL = 38: CANGL 4362 CANPCT2 21.000 C2 JJ
CHNL = 37: CANGL 4361 CANPCT1 21.000 C1 JJ

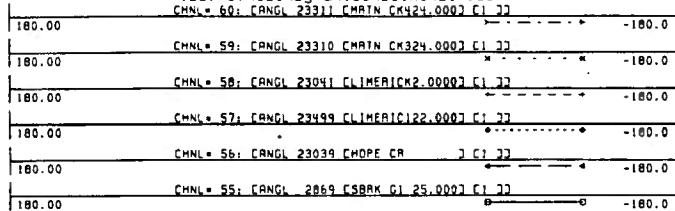


RUN E1A PLOT 7
FRI, MAR 31 2000 9:44



CASE DS1: 2001 SUMMER PEAK

BASE CASE

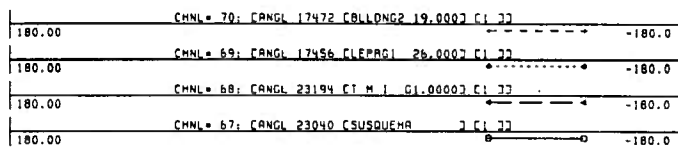
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPOFILE: C:\SEI\Dynamic\DS1AUNE1A.OUT
CHNL = 60: CANG1 23311 CMATN CK424.0002 C1 JJFRI, MAR 31 2000 9:44
RUN E1A PLOT 10

CASE DS1: 2001 SUMMER PEAK

BASE CASE

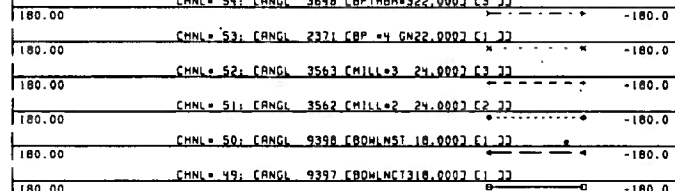
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO

FILE: C:\SEI\Dynamic\DS1AUNE1A.OUT

FRI, MAR 31 2000 9:44
RUN E1A PLOT 12

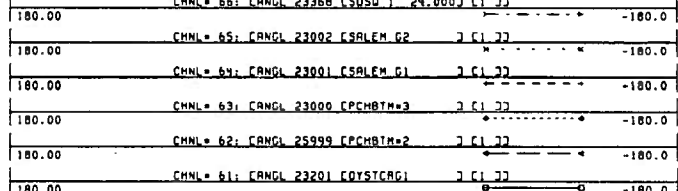
CASE DS1: 2001 SUMMER PEAK

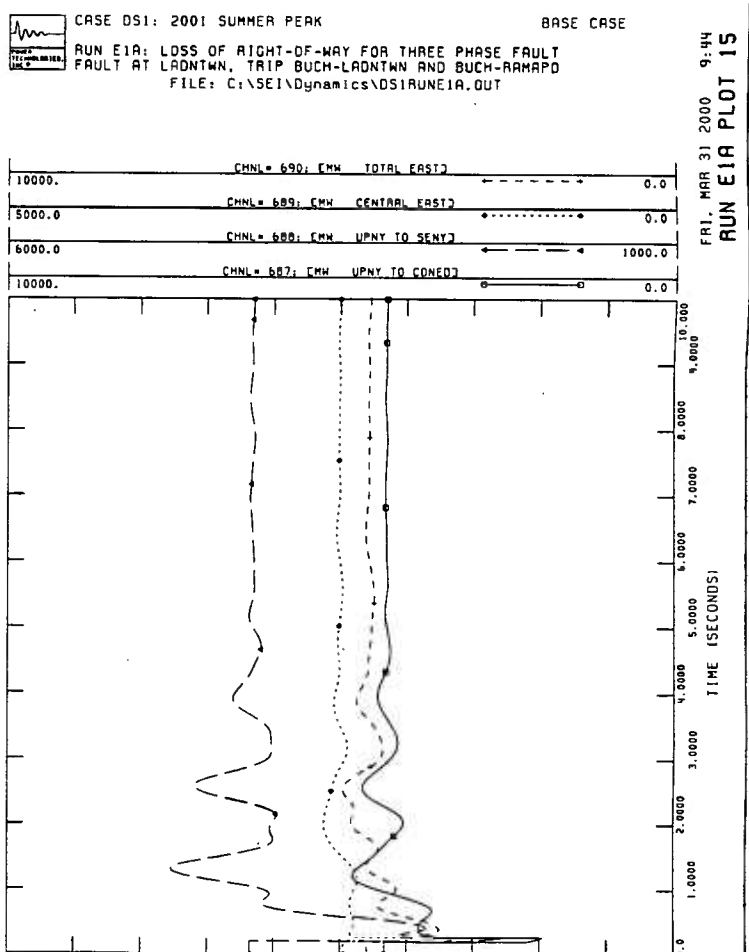
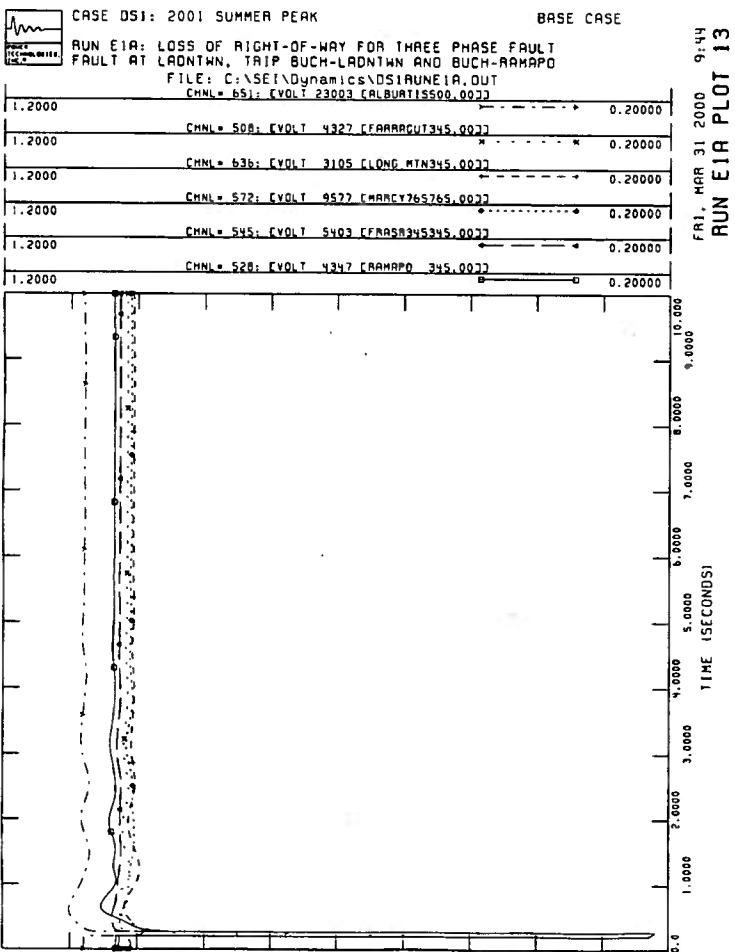
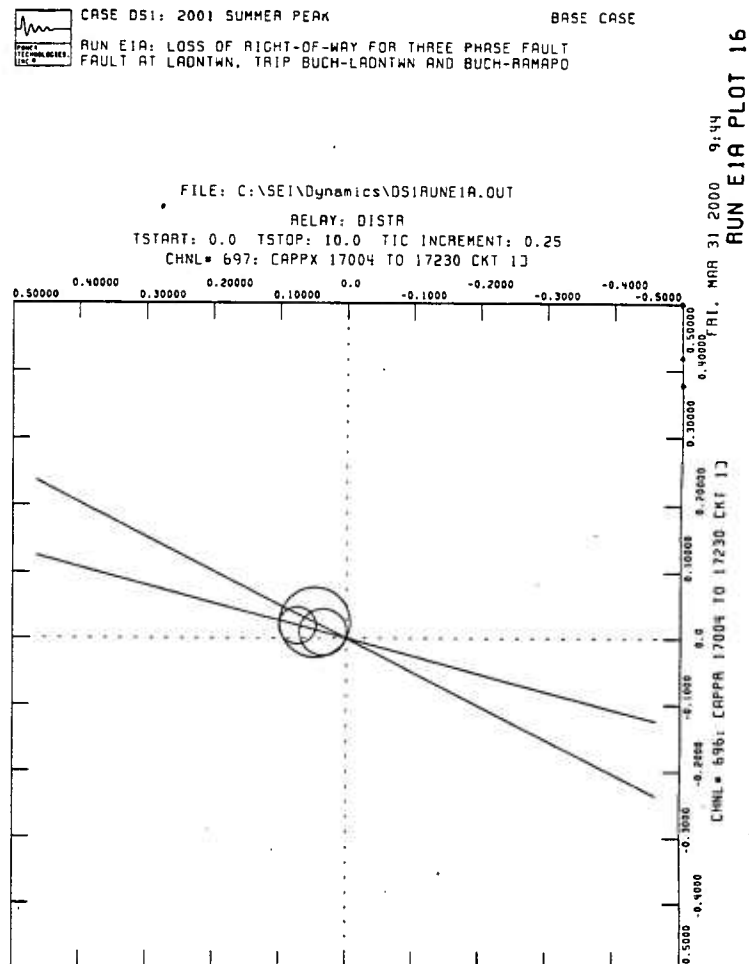
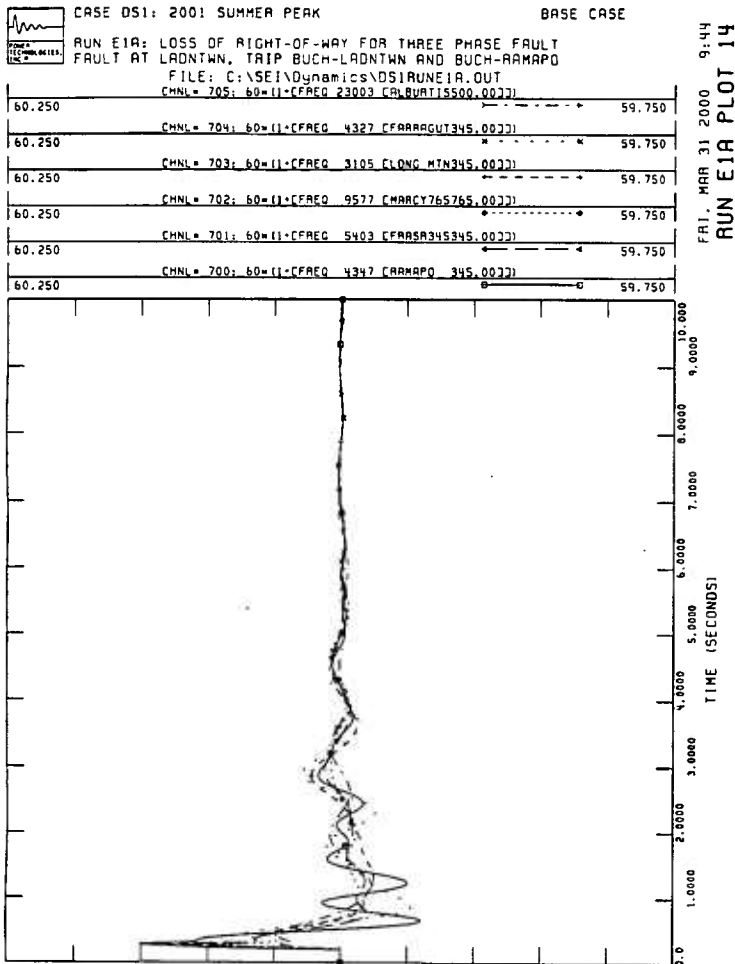
BASE CASE

RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPOFILE: C:\SEI\Dynamic\DS1AUNE1A.OUT
CHNL = 54: CANG1 3648 CBPMBA-322.0002 C3 JJFRI, MAR 31 2000 9:44
RUN E1A PLOT 9

CASE DS1: 2001 SUMMER PEAK

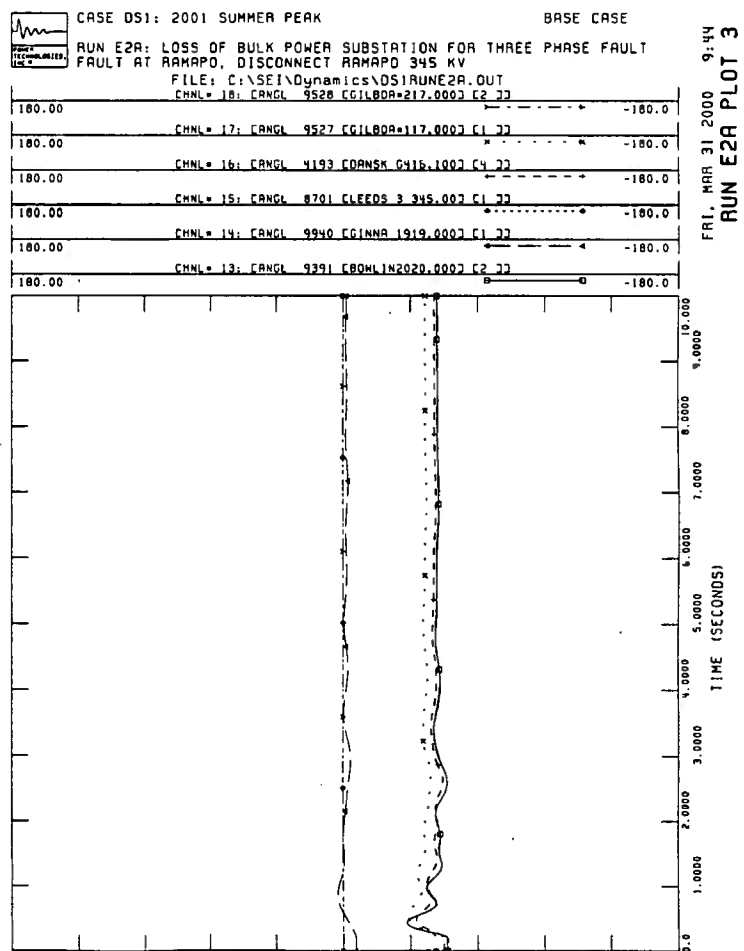
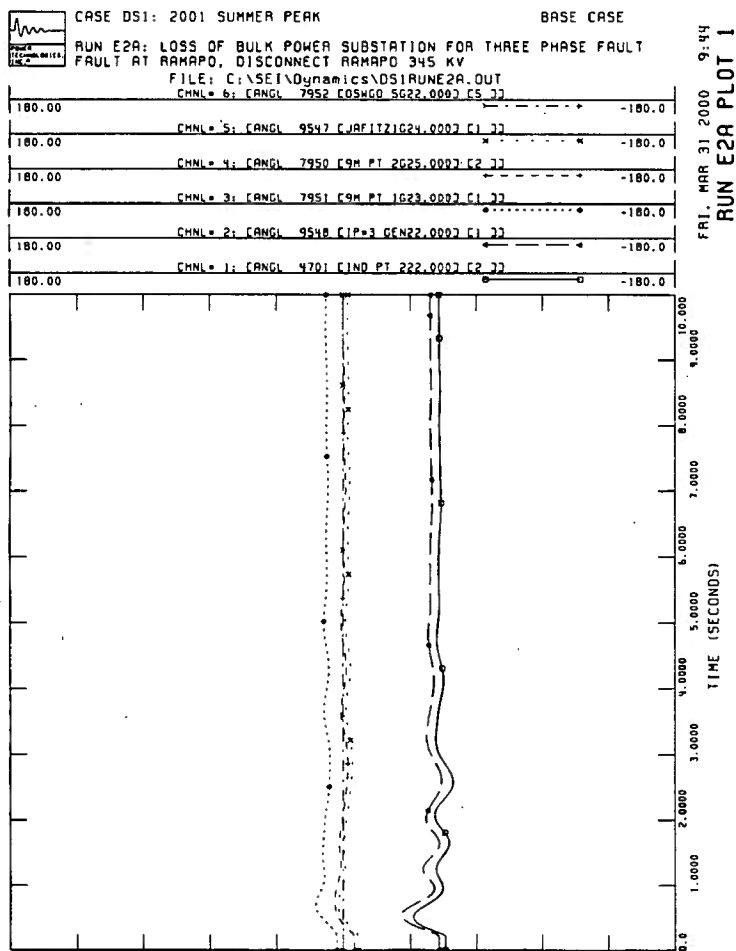
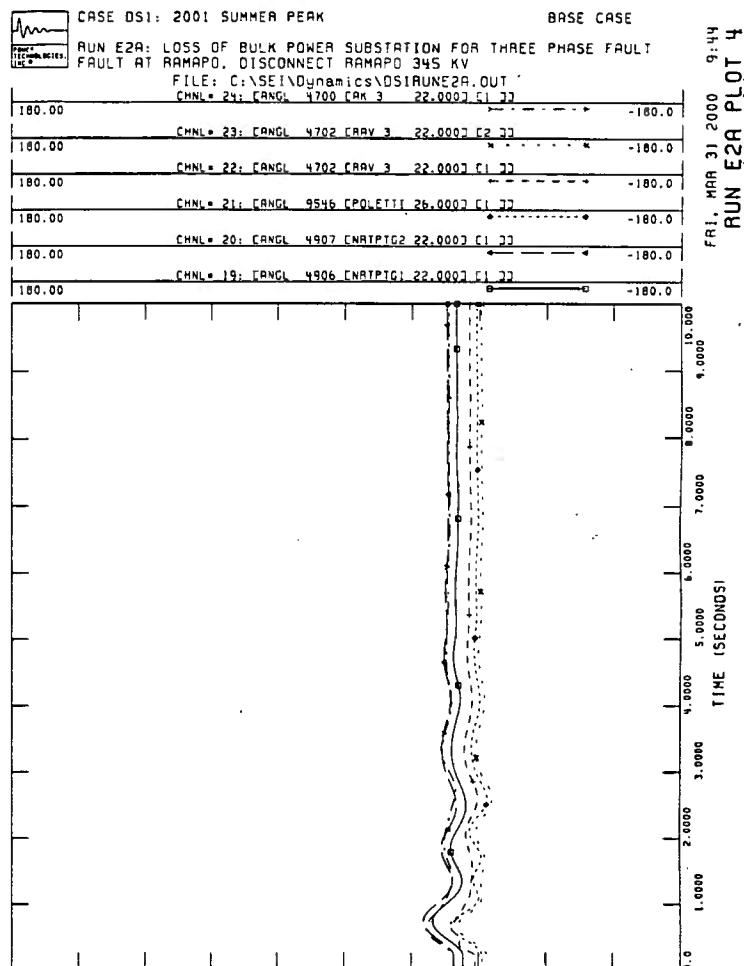
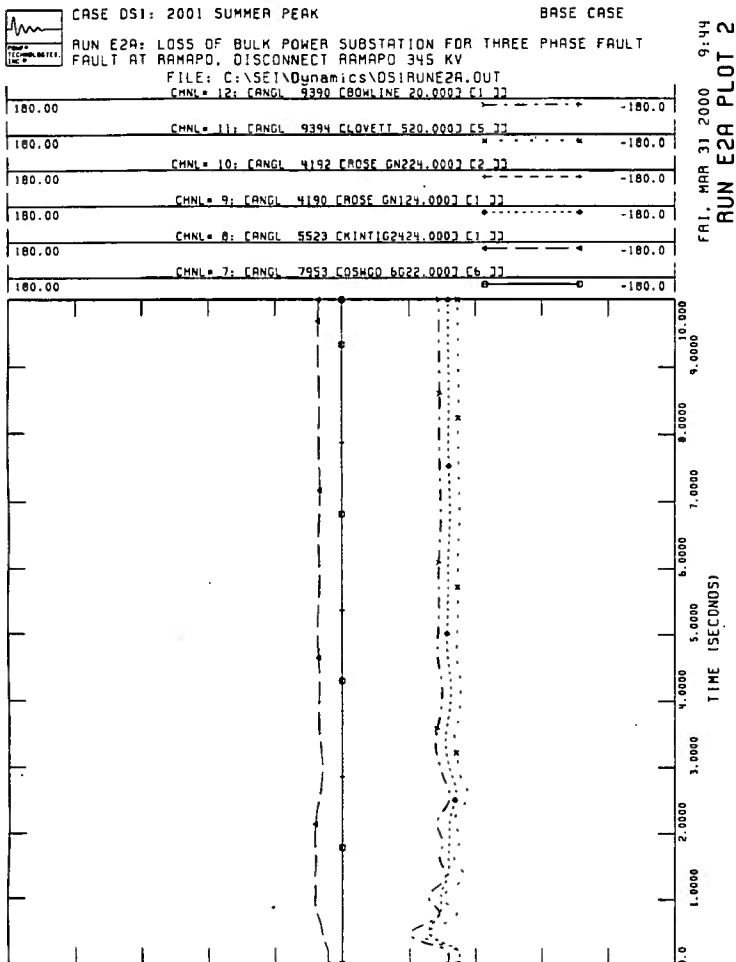
BASE CASE

RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPOFILE: C:\SEI\Dynamic\DS1AUNE1A.OUT
CHNL = 66: CANG1 23366 CSUSO 1 24.0002 C1 JJFRI, MAR 31 2000 9:44
RUN E1A PLOT 11



CONTINGENCY E2A

RECOVER FROM D1.SNP AND DS1.CNV
START OUTPUT DS1RUNE2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DISCONNECT BUS 4347 / DISCONNECT RAMAPO SUBSTATION
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



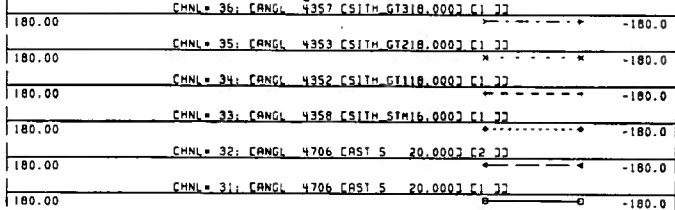


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DSIRUNE2A.OUT
CHNL = 35: CANGL 4357 CSITH GT18.0007 C1 JJ



FRI, MAR 31 2000 9:44
RUN E2A PLOT 6

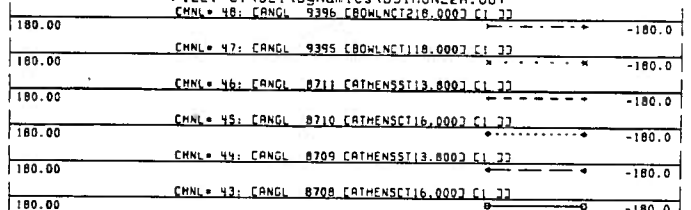


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DSIRUNE2A.OUT
CHNL = 47: CANGL 9395 CBOWLNCT18.0007 C1 JJ



FRI, MAR 31 2000 9:44
RUN E2A PLOT 7

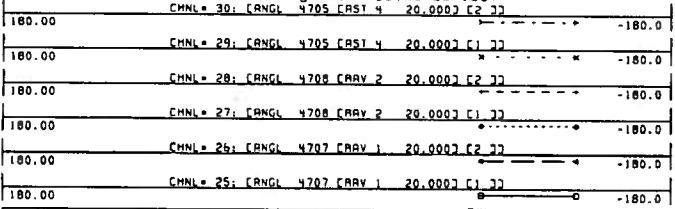


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DSIRUNE2A.OUT
CHNL = 29: CANGL 4705 CAST 4 20.0007 C1 JJ



FRI, MAR 31 2000 9:44
RUN E2A PLOT 8

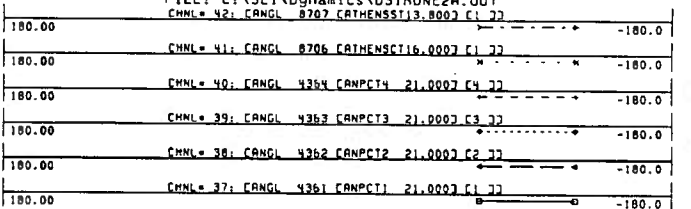


CASE DS1: 2001 SUMMER PEAK

BASE CASE

RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DSIRUNE2A.OUT
CHNL = 42: CANGL 8707 CATHESSCT13.8007 C1 JJ

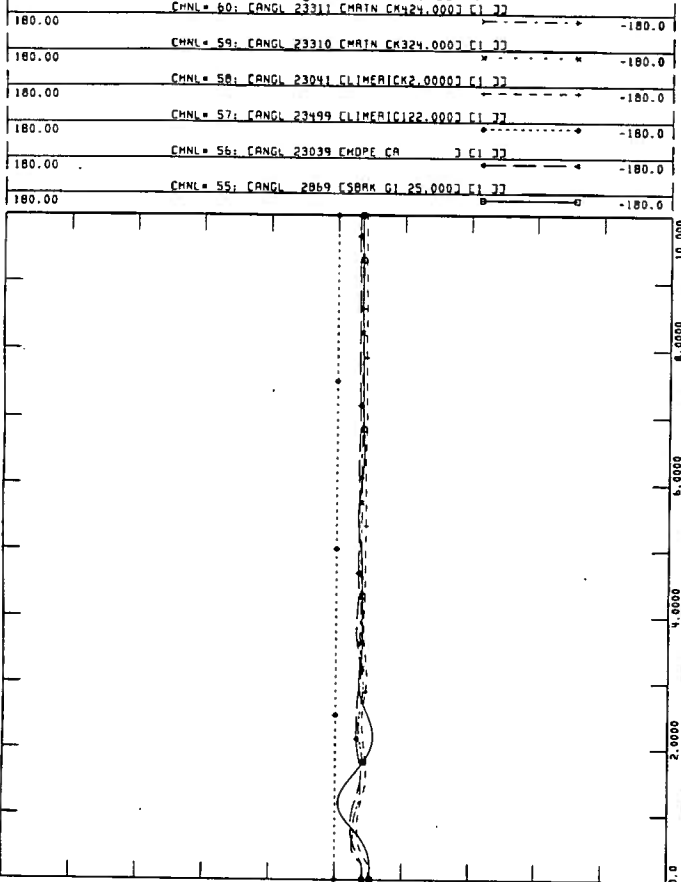


FRI, MAR 31 2000 9:44
RUN E2A PLOT 9

CASE DS1: 2001 SUMMER PEAK
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DS1\RUNE2A.OUT
 CHNL = 60: CANGI 2331 CHATN CH324.0003 C1 JJ

BASE CASE

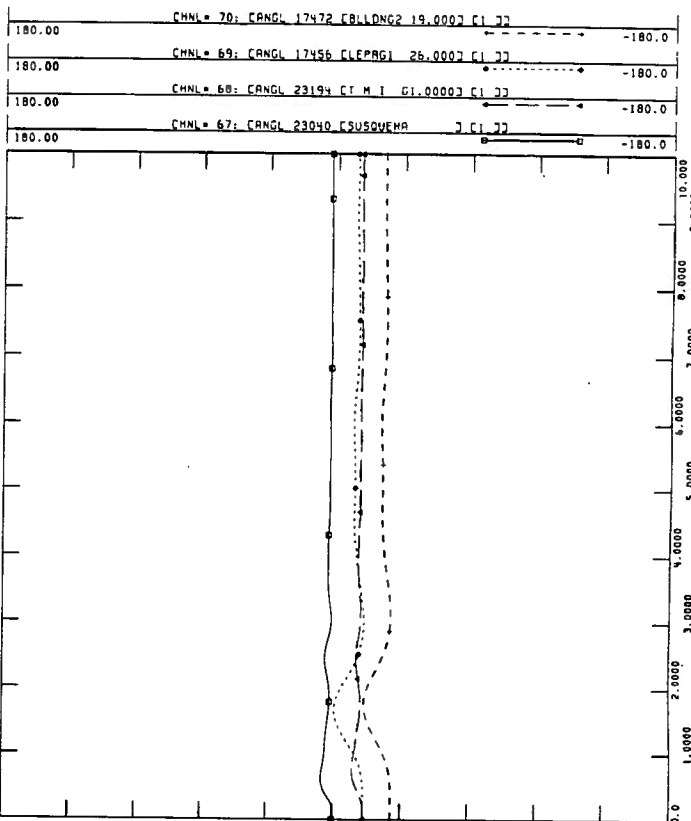
FRI, MAR 31 2000 9:44
 RUN E2A PLOT 10



CASE DS1: 2001 SUMMER PEAK
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DS1\RUNE2A.OUT

BASE CASE

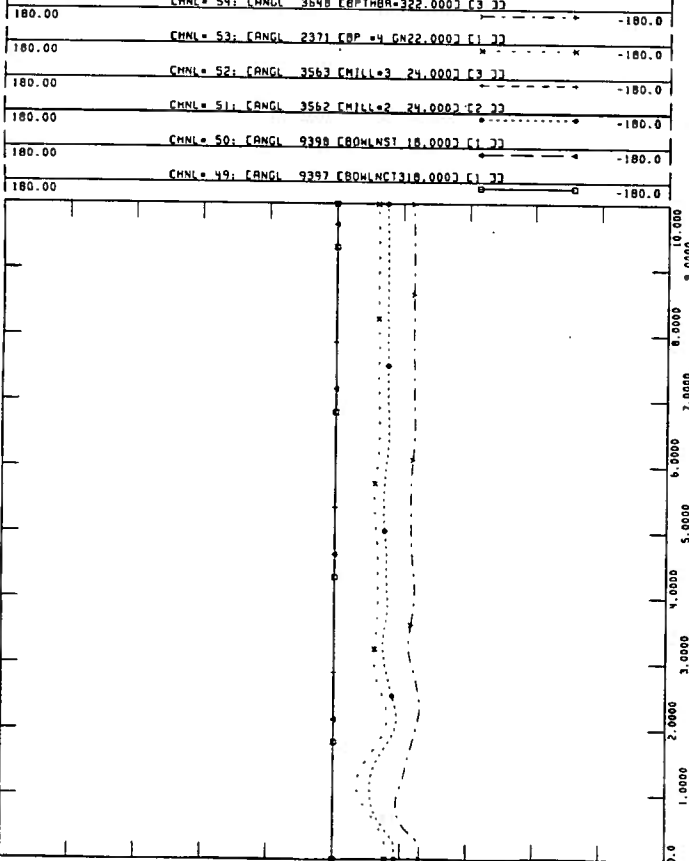
FRI, MAR 31 2000 9:44
 RUN E2A PLOT 12



CASE DS1: 2001 SUMMER PEAK
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DS1\RUNE2A.OUT
 CHNL = 54: CANGI 3648 CAPTMAH322.0003 C3 JJ

BASE CASE

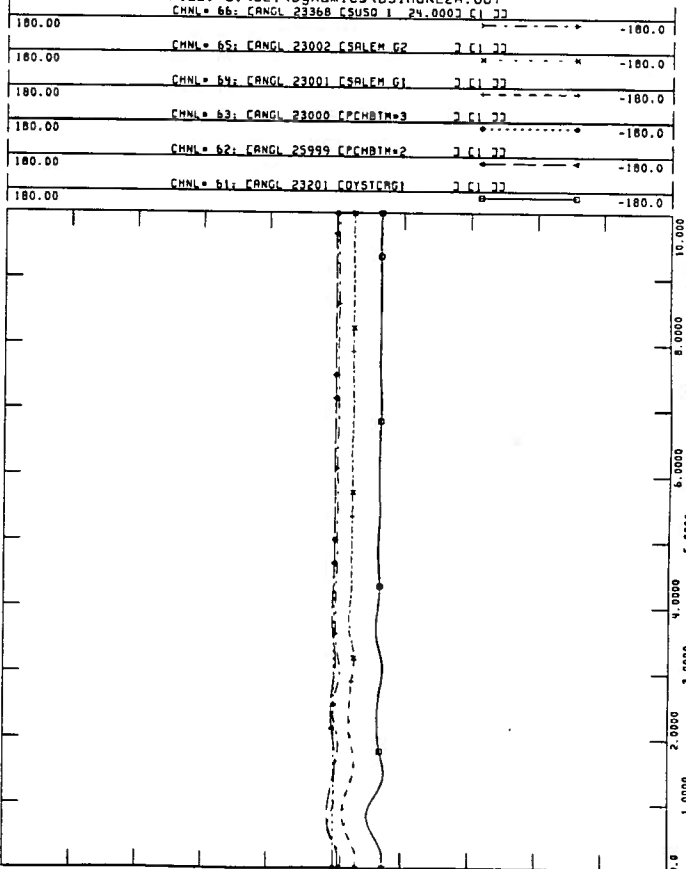
FRI, MAR 31 2000 9:44
 RUN E2A PLOT 9



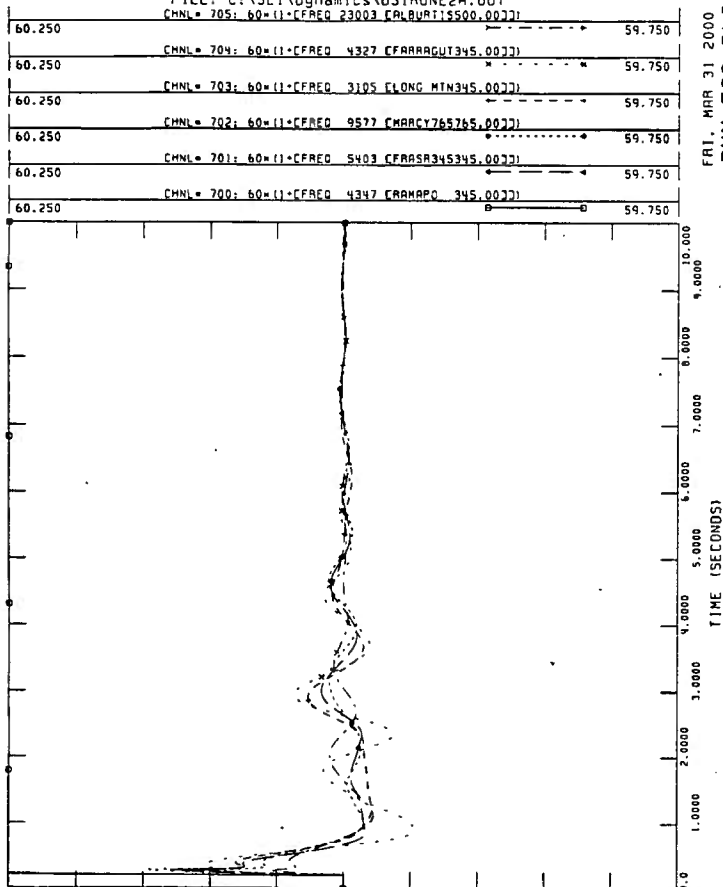
CASE DS1: 2001 SUMMER PEAK
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DS1\RUNE2A.OUT
 CHNL = 66: CANGI 23368 CSUSO 1 24.0003 C1 JJ

BASE CASE

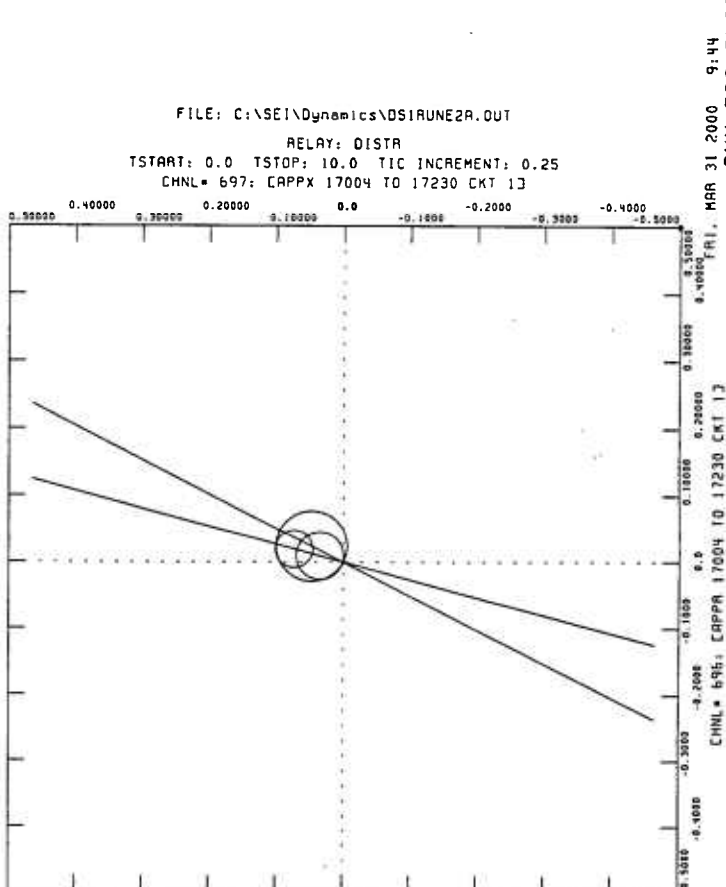
FRI, MAR 31 2000 9:44
 RUN E2A PLOT 11



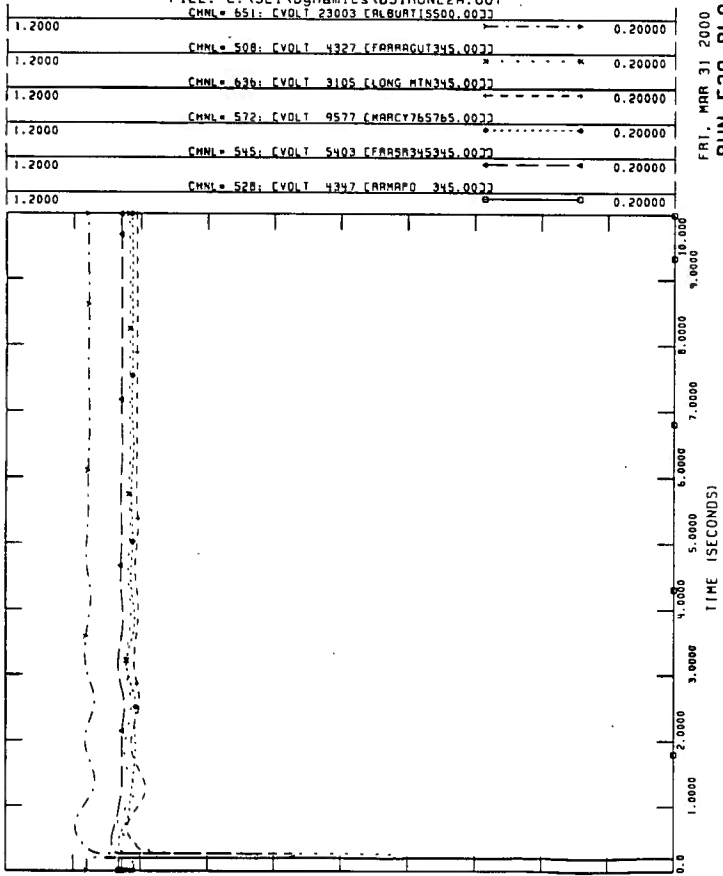
CASE DS1: 2001 SUMMER PEAK BASE CASE
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DSIRUNE2A.OUT
 CHNL = 705: 60*(1-CFREQ 23003 CALBUT15500.0077)



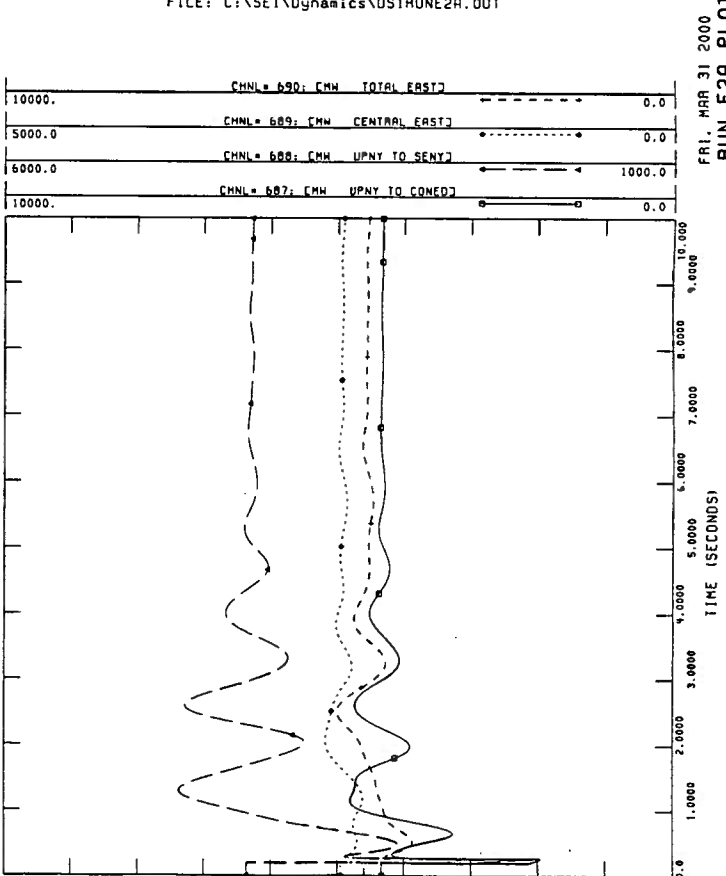
CASE DS1: 2001 SUMMER PEAK BASE CASE
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DSIRUNE2A.OUT
 RELAY: DISTR
 TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
 CHNL = 697: CAPPX 17004 TO 17230 CKT 13



CASE DS1: 2001 SUMMER PEAK BASE CASE
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DSIRUNE2A.OUT
 CHNL = 651: CVOLT 23003 CALBUT15500.0077



CASE DS1: 2001 SUMMER PEAK BASE CASE
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DSIRUNE2A.OUT



APPENDIX F.2 - Summer Peak Case DS2

Bowline 3 Off-Line

Bowline 1 and 2, Athens, ANP and Sithe On-Line

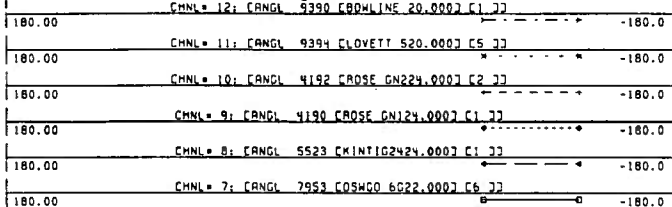
CONTINGENCY D2A

```
RECOVER FROM D1.SNP AND DS2.CNV
START OUTPUT DS2RUND2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0  -2e+009 MVA  / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9390  / TRIP BOWLINE 1
DROP GENERATOR 2 AT BUS 9391  / TRIP BOWLINE 2
DISCONNECT BUS 9300  /
DISCONNECT BUS 9301  /
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3
```



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\Dynamic\DS2RUND2A.OUT
CHNL= 12: CANGL 9390 CPOVET 20.000 C1 JJ

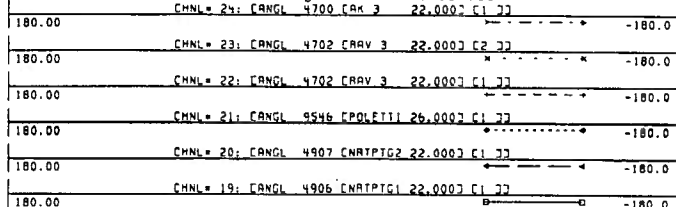


FRI, MAR 31 2000 13:31
RUN D2A PLOT 2



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\Dynamic\DS2RUND2A.OUT
CHNL= 24: CANGL 4700 CAV 3 22.000 C2 JJ

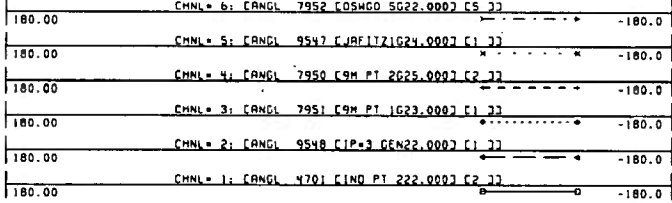


FRI, MAR 31 2000 13:31
RUN D2A PLOT 4



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\Dynamic\DS2RUND2A.OUT
CHNL= 6: CANGL 7952 CASHO 5022.000 C5 JJ

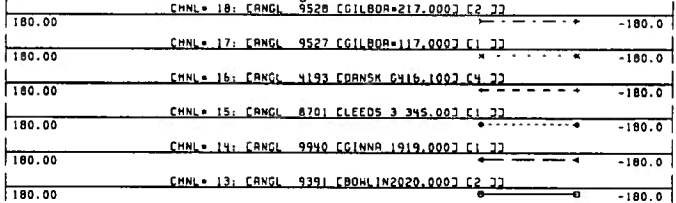


FRI, MAR 31 2000 13:31
RUN D2A PLOT 1



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\Dynamic\DS2RUND2A.OUT
CHNL= 18: CANGL 9528 CILBOA 217.000 C2 JJ

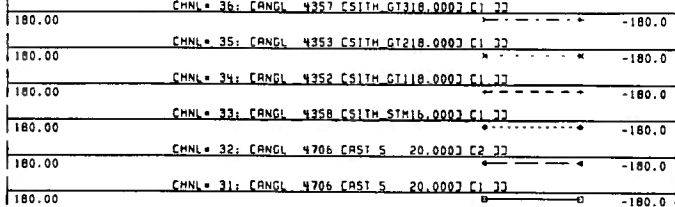


FRI, MAR 31 2000 13:31
RUN D2A PLOT 3



CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\dynamics\DS2RUND2A.OUT
CHNL = 35: CANGL 4353 CSITH GT118.0007 C1 JJ

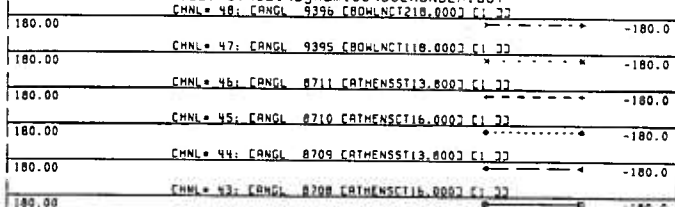


FRI, MAR 31 2000 13:31
RUN D2A PLOT 6



CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\dynamics\DS2RUND2A.OUT
CHNL = 48: CANGL 9395 CBOWLNCT118.0007 C1 JJ

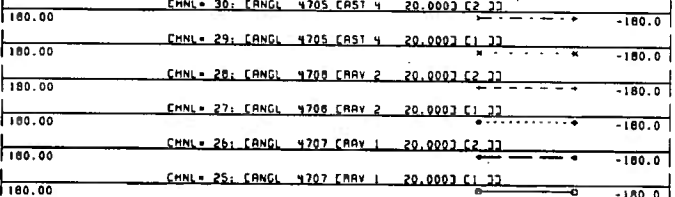


FRI, MAR 31 2000 13:31
RUN D2A PLOT 8



CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\dynamics\DS2RUND2A.OUT
CHNL = 39: CANGL 4705 CAST 4 20.0007 C2 JJ

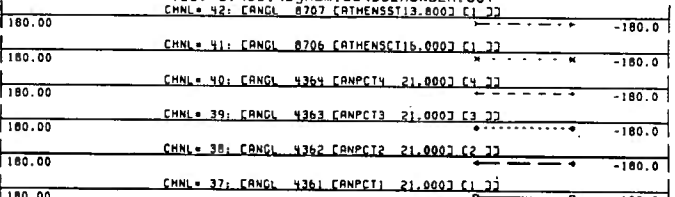


FRI, MAR 31 2000 13:31
RUN D2A PLOT 5



CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

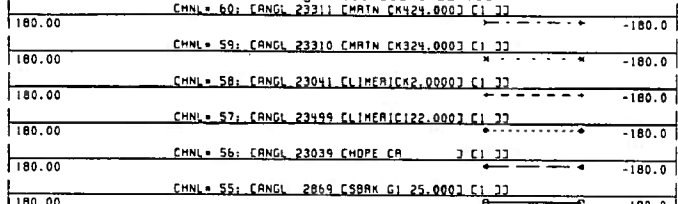
FILE: C:\SEI\dynamics\DS2RUND2A.OUT
CHNL = 42: CANGL 8707 CATHENSST13.8007 C1 JJ



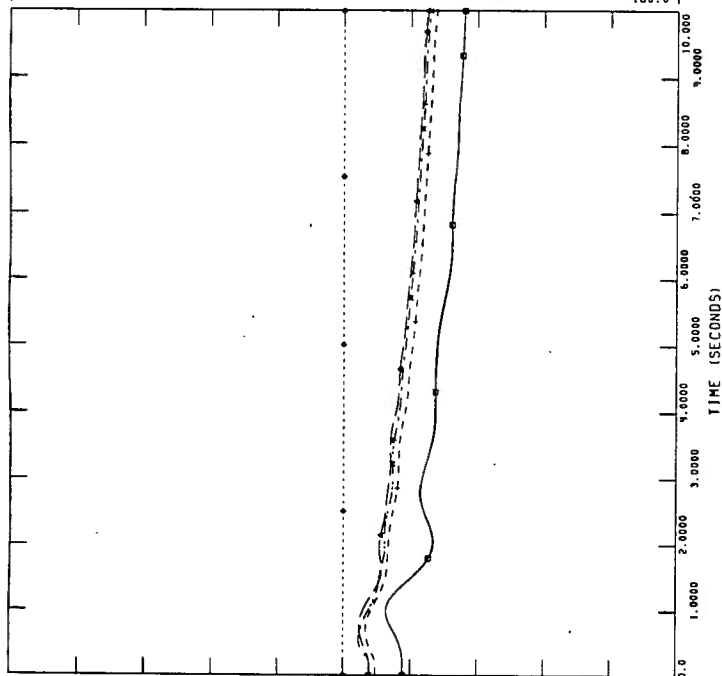
FRI, MAR 31 2000 13:31
RUN D2A PLOT 7



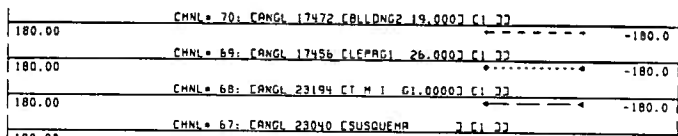
CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DS2AUND2A.OUT
CHNL = 60: [CANGL 2331] CHATN CM424.0007 C1 JJ



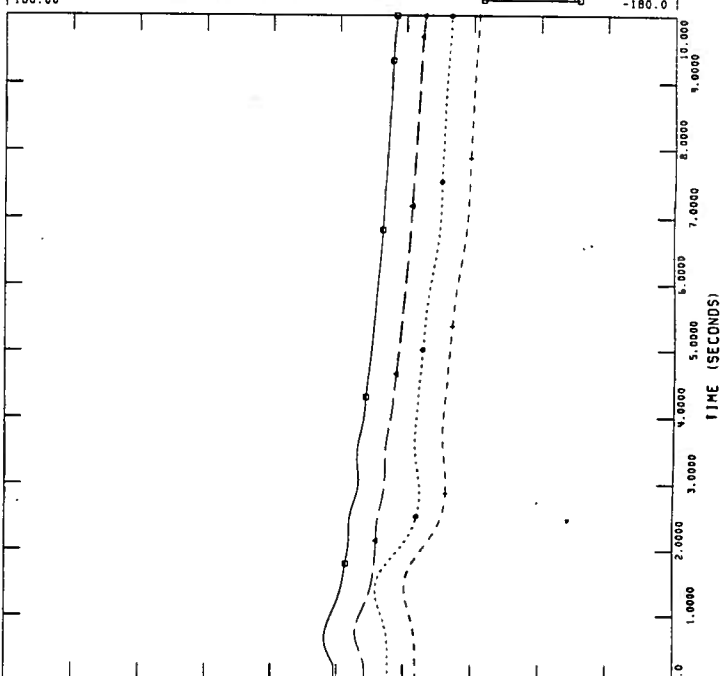
FRI, MAR 31 2000 13:31
RUN D2A PLOT 10



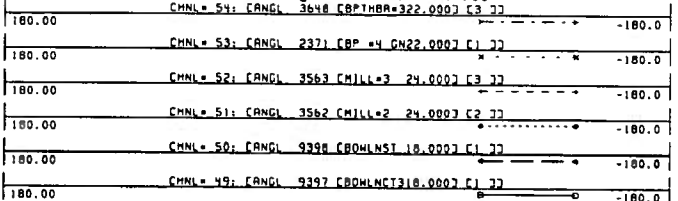
CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DS2AUND2A.OUT
CHNL = 70: [CANGL 17472] CBLLDNG2 19.0007 C1 JJ



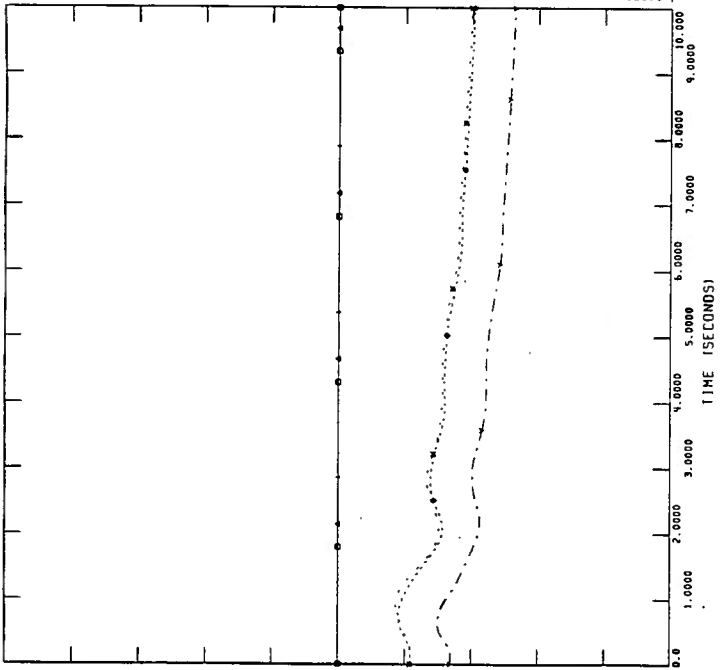
FRI, MAR 31 2000 13:31
RUN D2A PLOT 12



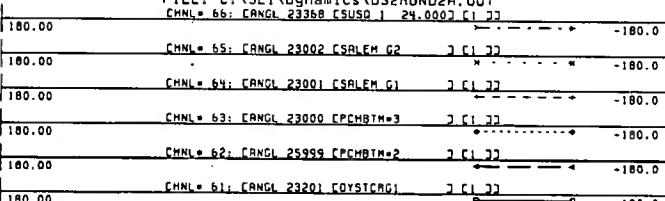
CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DS2AUND2A.OUT
CHNL = 54: [CANGL 3648] CBPTHR322.0007 C3 JJ



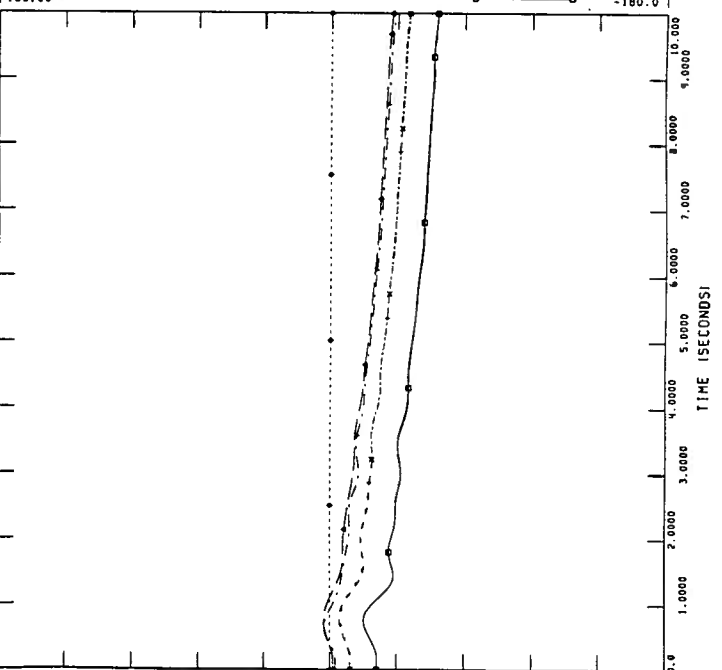
FRI, MAR 31 2000 13:31
RUN D2A PLOT 9



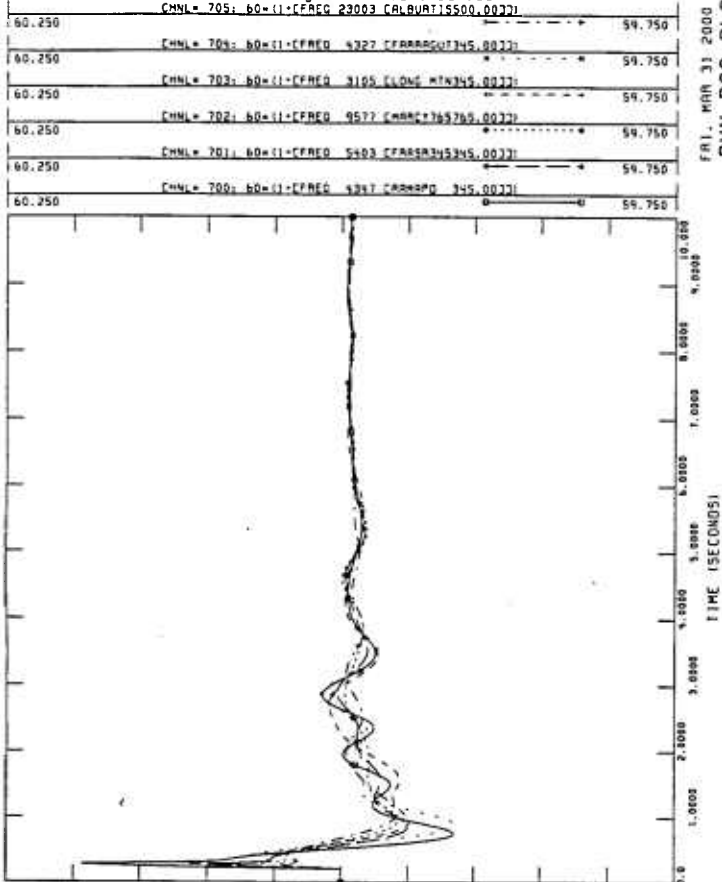
CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DS2AUND2A.OUT
CHNL = 66: [CANGL 23368] CSUSD 1 24.0007 C1 JJ



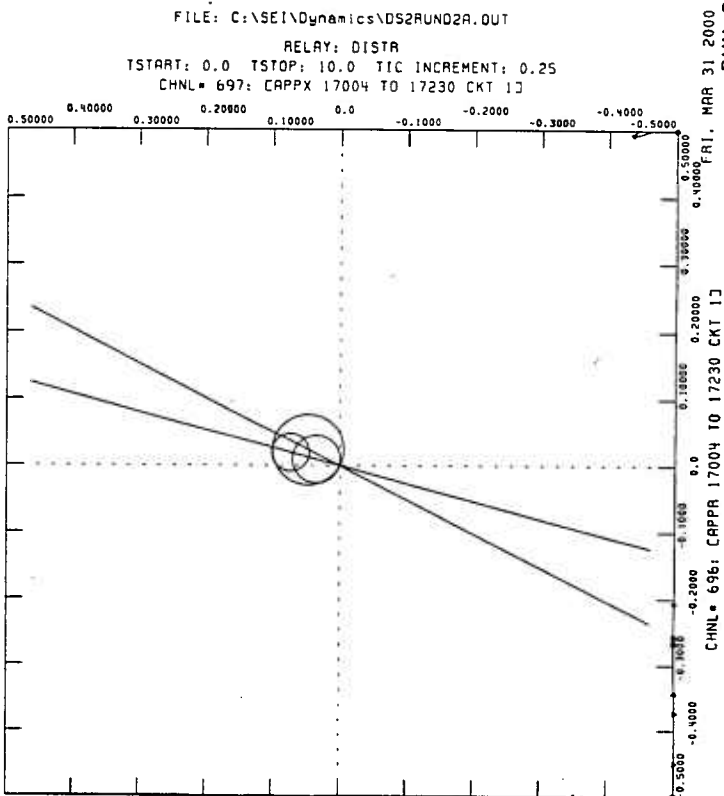
FRI, MAR 31 2000 13:31
RUN D2A PLOT 11



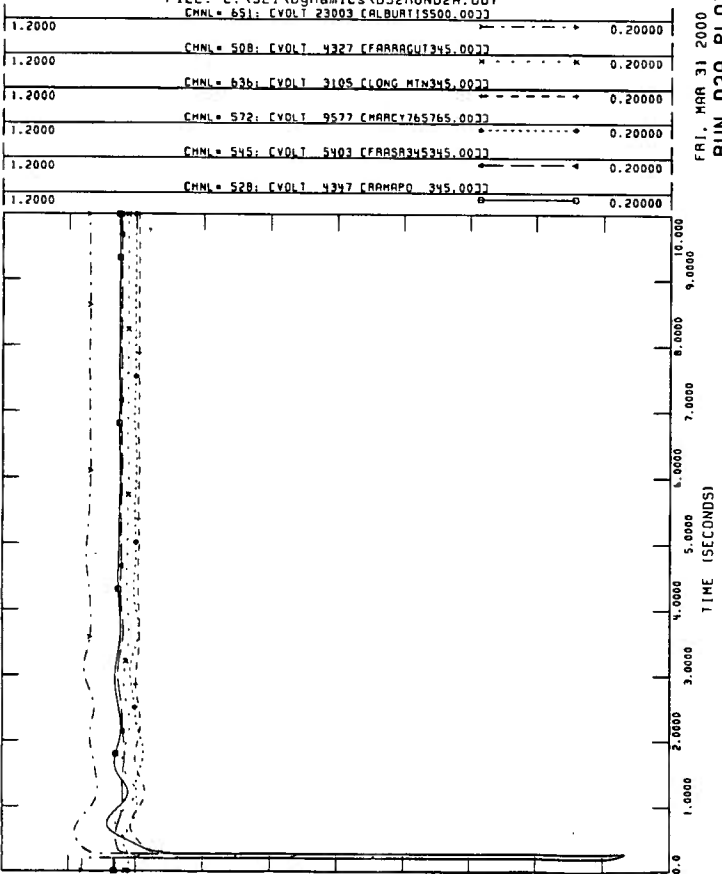
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamics\DS2RUND2A.OUT
CHNL= 709: 60=11-CPRED 23003 CALBUT15500.0077



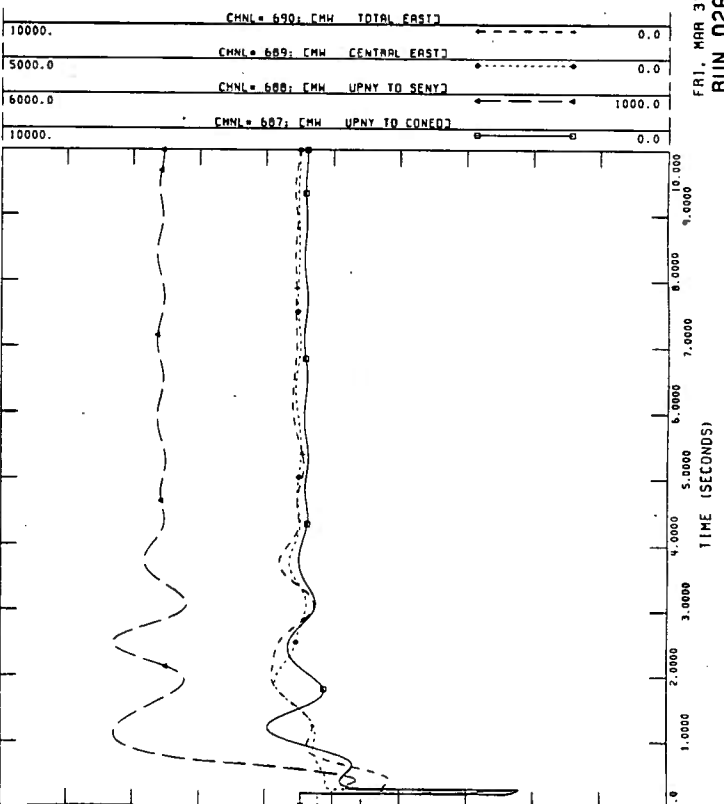
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamics\DS2RUND2A.OUT



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamics\DS2RUND2A.OUT
CHNL= 651: CVOLT 23003 CALBUT15500.0077



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamics\DS2RUND2A.OUT

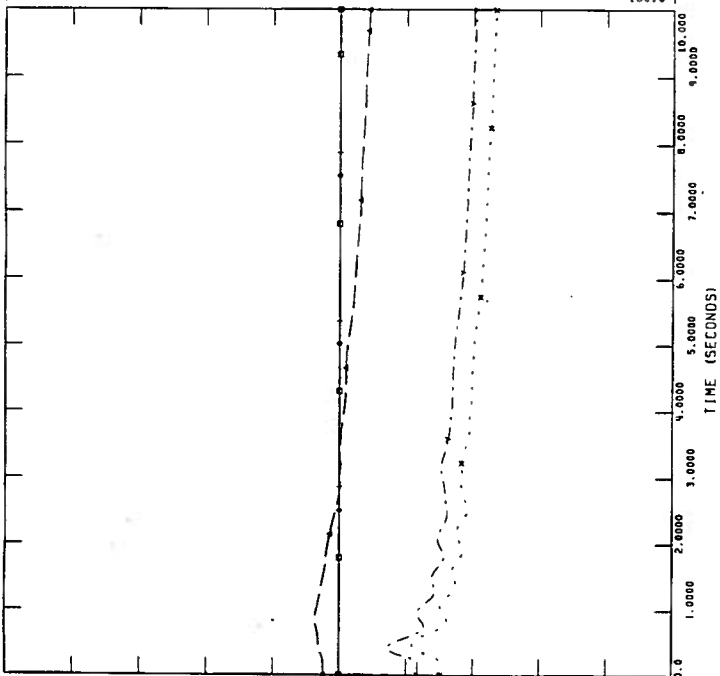


CONTINGENCY D3A

RECOVER FROM D1.SNP AND DS2.CNV
START OUTPUT DS2RUND3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 9582 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT INDN PT 3
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9548 / TRIP INDN PT 3
TRIP LINE FROM BUS 4313 TO BUS 9582 CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3
FILE: C:\SEI\Dynamic\DS2RUND3A.OUT
CHNL = 12: CANGL 9390 CROWLINE 20.0007 C1 77

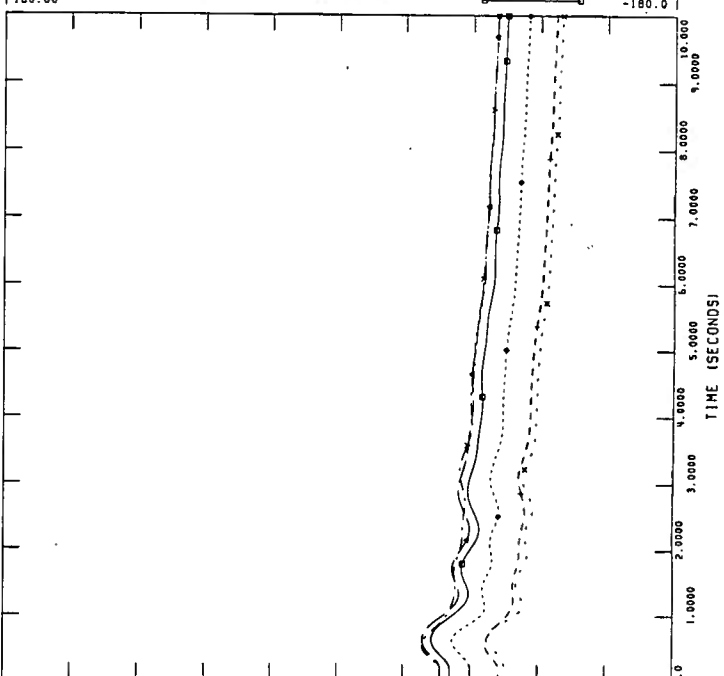
CHNL = 11: CANGL 9394 CLOYETT 520.0007 C5 77
CHNL = 10: CANGL 4192 CROSE GN224.0007 C2 77
CHNL = 9: CANGL 4190 CROSE GN124.0007 C1 77
CHNL = 8: CANGL 5523 CKNITIG2424.0007 C1 77
CHNL = 7: CANGL 7953 CDSHGO 5622.0007 C6 77



FRI, MAR 31 2000 13:31
RUN D3A PLOT 2

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3
FILE: C:\SEI\Dynamic\DS2RUND3A.OUT
CHNL = 24: CANGL 4700 CAR 3 22.0007 C1 77

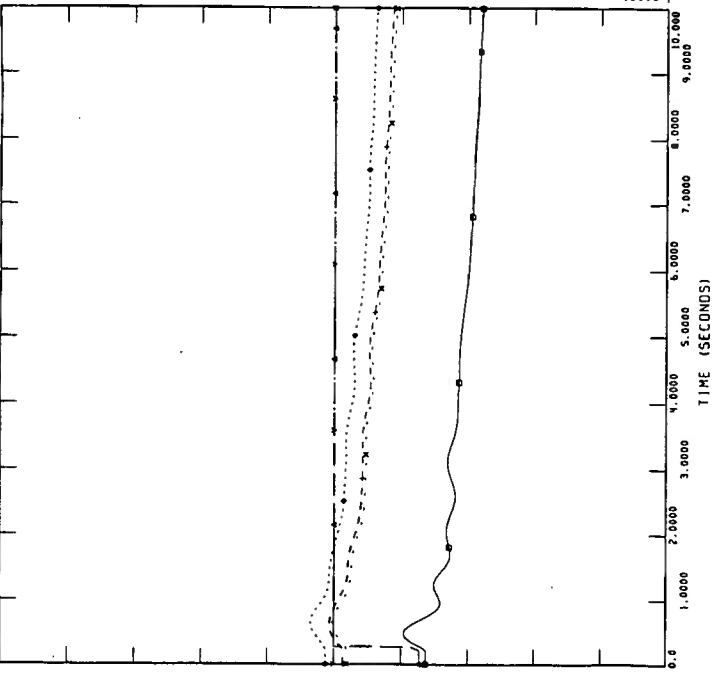
CHNL = 23: CANGL 4702 CARV 3 22.0007 C2 77
CHNL = 22: CANGL 4702 CARV 3 22.0007 C1 77
CHNL = 21: CANGL 9546 CPOLFTT 26.0007 C1 77
CHNL = 20: CANGL 4907 CNRPTG2 22.0007 C1 77
CHNL = 19: CANGL 4906 CNRPTG1 22.0007 C1 77



FRI, MAR 31 2000 13:31
RUN D3A PLOT 4

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3
FILE: C:\SEI\Dynamic\DS2RUND3A.OUT
CHNL = 6: CANGL 7952 CDSHGO 5622.0007 C5 77

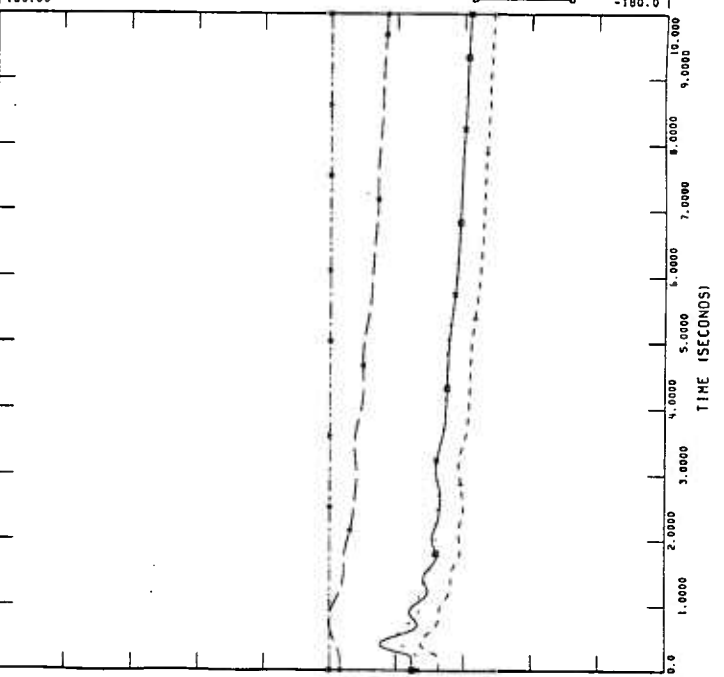
CHNL = 5: CANGL 9547 CJAFL171624.0007 C1 77
CHNL = 4: CANGL 7950 CDM PT 2025.0007 C2 77
CHNL = 3: CANGL 7951 CDM PT 1023.0007 C1 77
CHNL = 2: CANGL 9548 CIP=3 GEN22.0007 C1 77
CHNL = 1: CANGL 4701 CIND PT 222.0007 C2 77



FRI, MAR 31 2000 13:31
RUN D3A PLOT 1

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3
FILE: C:\SEI\Dynamic\DS2RUND3A.OUT
CHNL = 18: CANGL 9528 CGILBOR=217.0007 C2 77

CHNL = 17: CANGL 9527 CGILBOR=117.0007 C1 77
CHNL = 16: CANGL 4193 CDANSK GY16.1007 C4 77
CHNL = 15: CANGL 8701 CLEEDS 3 345.007 C1 77
CHNL = 14: CANGL 9940 CGINNA 1919.0007 C1 77
CHNL = 13: CANGL 9391 CROWLINE2020.0007 C2 77

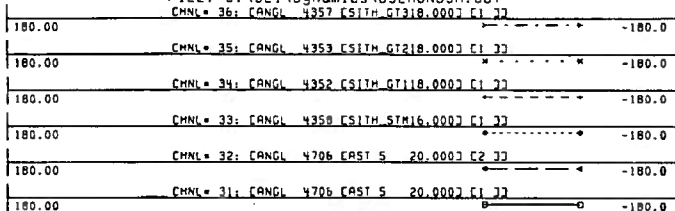


FRI, MAR 31 2000 13:31
RUN D3A PLOT 3



CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DS2RUND3A.OUT
CHNL = 36: CANGL 4357 CSITH GT18.000 C1 JJ

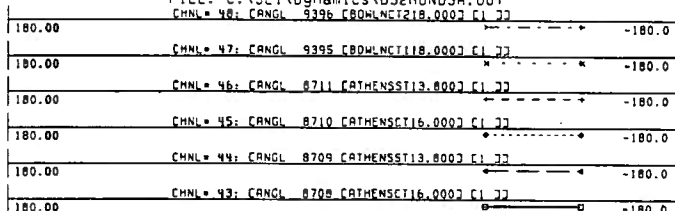


FRI, MAR 31 2000 13:31
RUN D3A PLOT 6



CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DS2RUND3A.OUT
CHNL = 48: CANGL 9396 CBOWLNCI18.000 C1 JJ

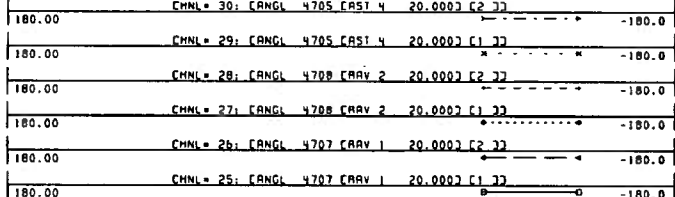


FRI, MAR 31 2000 13:31
RUN D3A PLOT 8



CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DS2RUND3A.OUT
CHNL = 30: CANGL 4705 CAST 4 20.000 C2 JJ

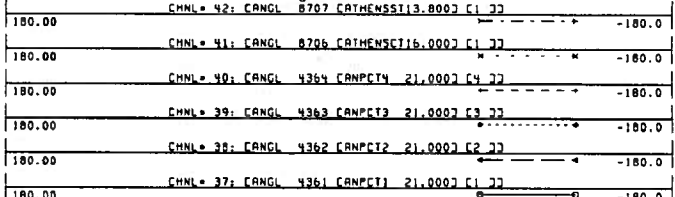


FRI, MAR 31 2000 13:31
RUN D3A PLOT 5



CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

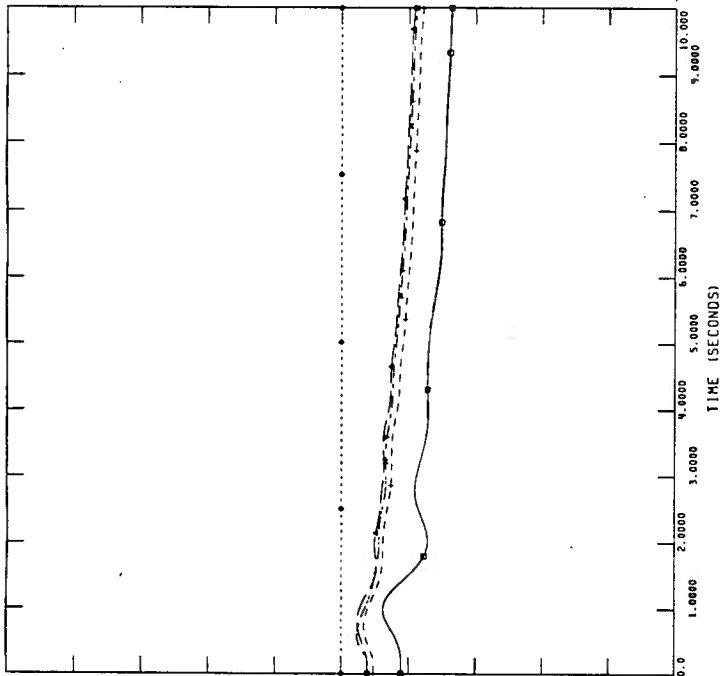
FILE: C:\SEI\Dynamic\DS2RUND3A.OUT
CHNL = 42: CANGL 8707 CATHESS13.800 C1 JJ



FRI, MAR 31 2000 13:31
RUN D3A PLOT 7

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3
FILE: C:\SEI\odynamics\DS2AUND3A.OUT
CHNL= 60: CANGL 23311 CHAIN CK324.0000 C1 77

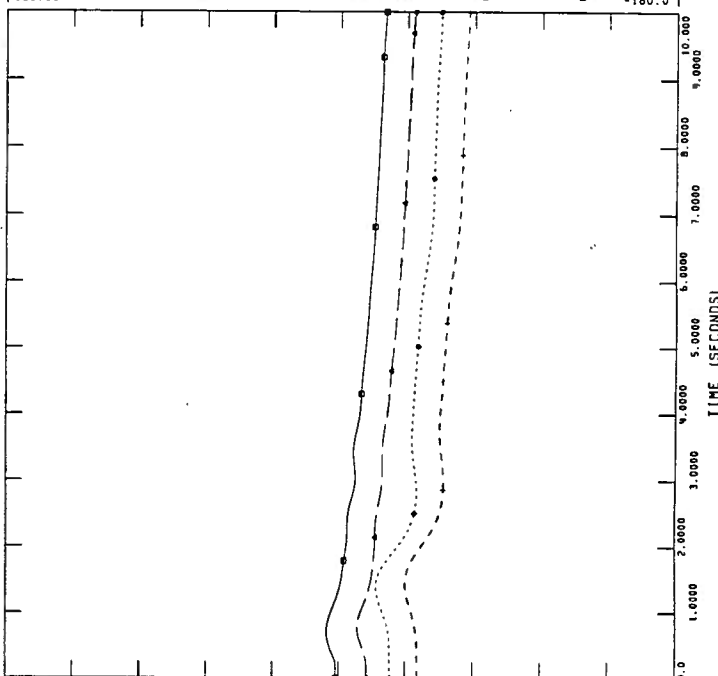
CHNL= 59: CANGL 23310 CHAIN CK324.0000 C1 77
CHNL= 58: CANGL 23041 CLIMERIC12.0000 C1 77
CHNL= 57: CANGL 23499 CLIMERIC122.0000 C1 77
CHNL= 56: CANGL 23039 CHOPE CA 7 C1 77
CHNL= 55: CANGL 2869 CSBK G1 25.0000 C1 77



FRI, MAR 31 2000 13:31
RUN D3A PLOT 10

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3
FILE: C:\SEI\odynamics\DS2AUND3A.OUT

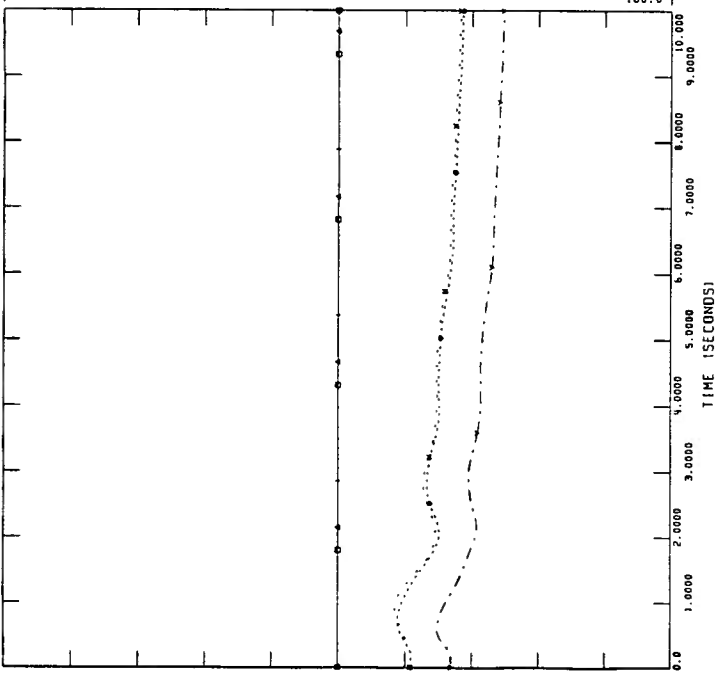
CHNL= 70: CANGL 17472 CALLONG2 19.0000 C1 77
CHNL= 69: CANGL 17456 CLEPAG1 26.0000 C1 77
CHNL= 68: CANGL 23194 CT M 1 G1.0000 C1 77
CHNL= 67: CANGL 23040 CSUSQUEHA 7 C1 77



FRI, MAR 31 2000 13:31
RUN D3A PLOT 12

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3
FILE: C:\SEI\odynamics\DS2AUND3A.OUT
CHNL= 54: CANGL 2648 CBPINDA-322.0000 C3 77

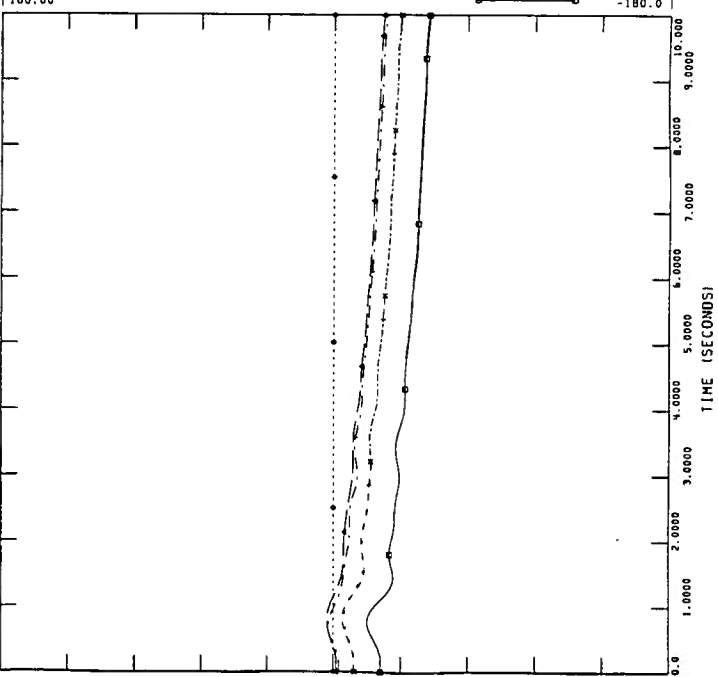
CHNL= 53: CANGL 2371 CBP -4 GN22.0000 C1 77
CHNL= 52: CANGL 3563 CHILL-3 24.0000 C3 77
CHNL= 51: CANGL 3562 CHILL-2 24.0000 C2 77
CHNL= 50: CANGL 9398 CROWLNS1 18.0000 C1 77
CHNL= 49: CANGL 9397 CROWLNS1318.0000 C1 77



FRI, MAR 31 2000 13:31
RUN D3A PLOT 9

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3
FILE: C:\SEI\odynamics\DS2AUND3A.OUT
CHNL= 66: CANGL 23368 CSUSD 7 29.0000 C1 77

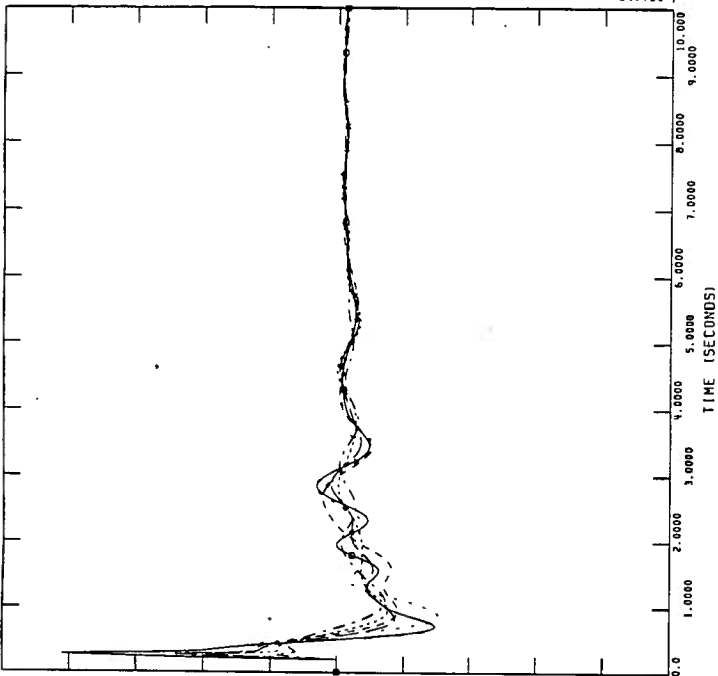
CHNL= 65: CANGL 23002 CSALEM G2 7 C1 77
CHNL= 64: CANGL 23001 CSALEM G1 7 C1 77
CHNL= 63: CANGL 23000 CPCHBTH=3 7 C1 77
CHNL= 62: CANGL 25999 CPCHBTH=2 7 C1 77
CHNL= 61: CANGL 23201 COYSIARD 7 C1 77



FRI, MAR 31 2000 13:31
RUN D3A PLOT 11

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3
FILE: C:\SEI\Dynamic\DS2RUND3A.OUT
CHNL = 705: 60*(1-CFREQ 23003 CALBURT15500.0077)

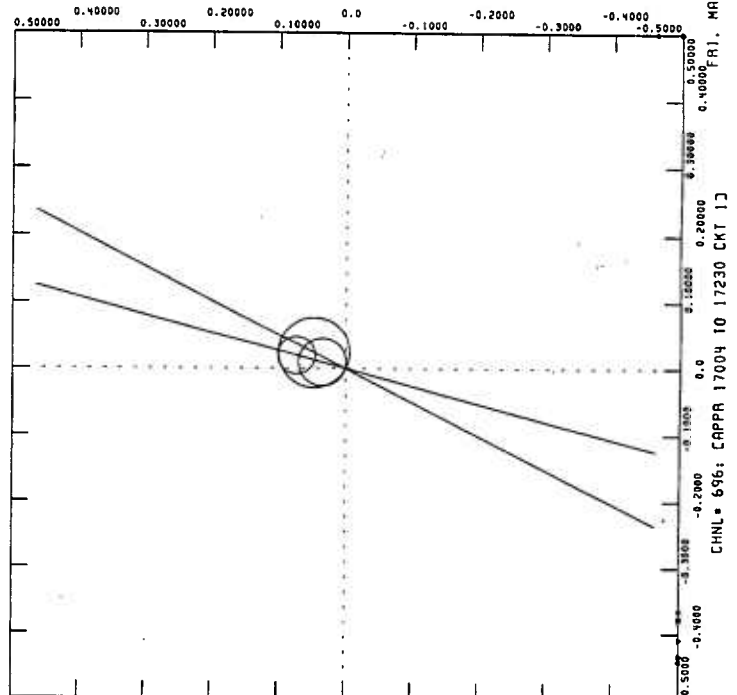
CHNL = 704: 60*(1-CFREQ 4327 CFARRAGUT345.0077)
CHNL = 703: 60*(1-CFREQ 3105 FLONG MTN345.0077)
CHNL = 702: 60*(1-CFREQ 9577 CMARCY765765.0077)
CHNL = 701: 60*(1-CFREQ 5403 CFARSA345345.0077)
CHNL = 700: 60*(1-CFREQ 4347 CRAMAPD 345.0077)



FRI, MAR 31 2000 13:31
RUN D3A PLOT 14

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3
FILE: C:\SEI\Dynamic\DS2RUND3A.OUT

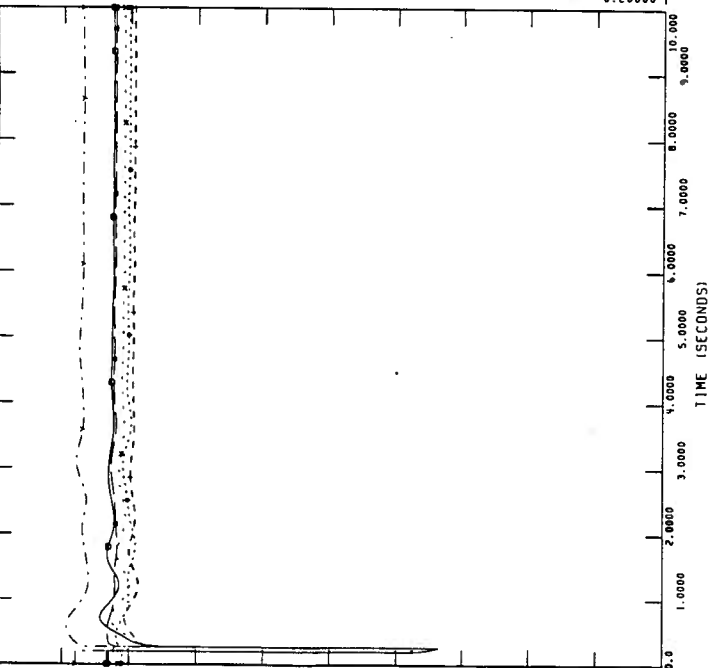
RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 17



FRI, MAR 31 2000 13:31
RUN D3A PLOT 16
CHNL = 696: CAPPX 17004 TO 17230 CKT 17

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3
FILE: C:\SEI\Dynamic\DS2RUND3A.OUT
CHNL = 651: CVOLT 23003 CALBURT15500.0077

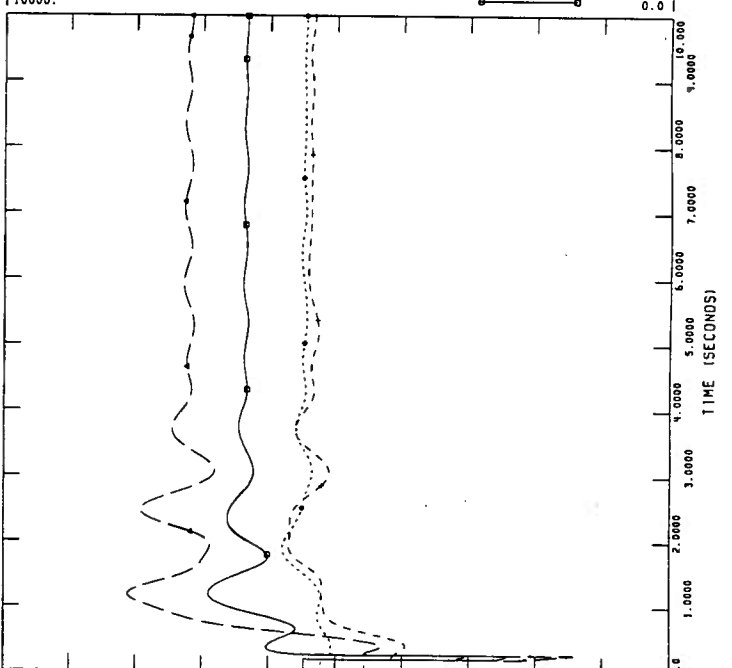
CHNL = 508: CVOLT 4327 CFARRAGUT345.0077
CHNL = 636: CVOLT 3105 FLONG MTN345.0077
CHNL = 672: CVOLT 9577 CMARCY765765.0077
CHNL = 545: CVOLT 5403 CFARSA345345.0077
CHNL = 528: CVOLT 4347 CRAMAPD 345.0077



FRI, MAR 31 2000 13:31
RUN D3A PLOT 13

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3
FILE: C:\SEI\Dynamic\DS2RUND3A.OUT

CHNL = 690: CMW TOTAL EAST
CHNL = 689: CMW CENTRAL EAST
CHNL = 688: CMW UPNY TO SENT
CHNL = 687: CMW UPNY TO CONED



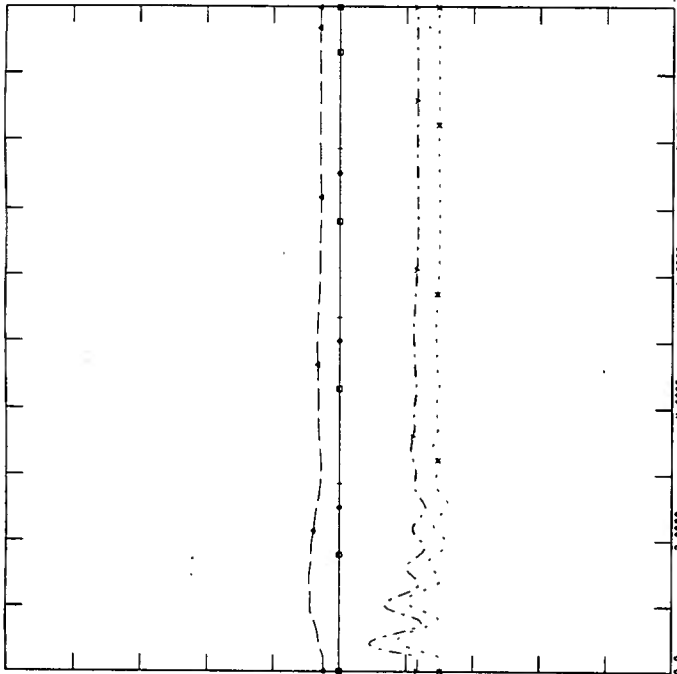
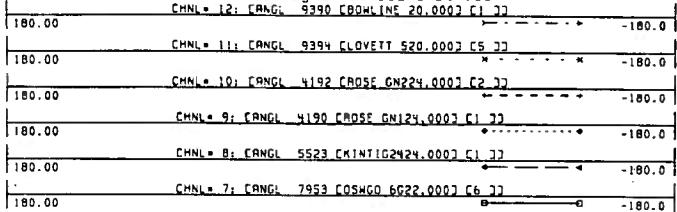
FRI, MAR 31 2000 13:31
RUN D3A PLOT 15

CONTINGENCY D4A

RECOVER FROM D1.SNP AND DS2.CNV
START OUTPUT DS2RUND4A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4347 CKT 1 / TRIP LADENTOWN-RAMAPO
CLEAR FAULT
RUN FOR 31 CYCLES PRINT 0 PLOT 3
APPLY FAULT BUS 4347 IMPEDANCE 0.119 2.642 OHMS BASEKV 345 / RECLOSE AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



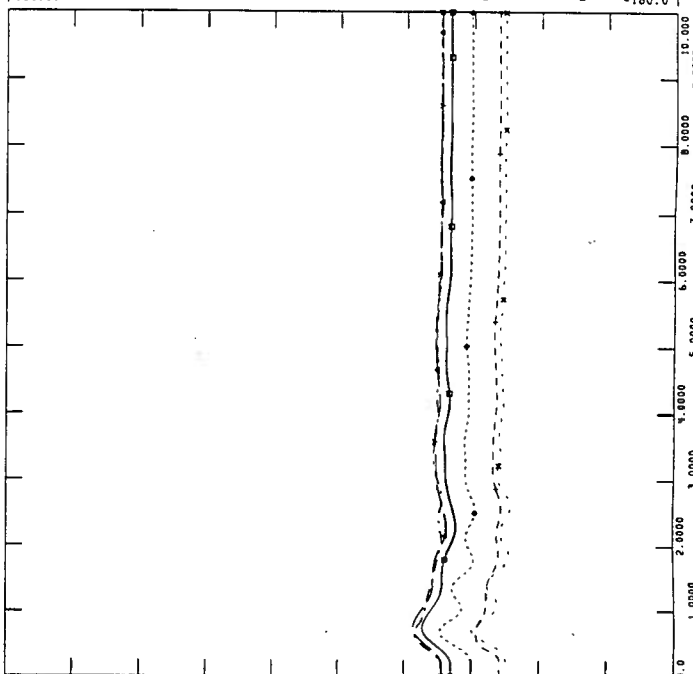
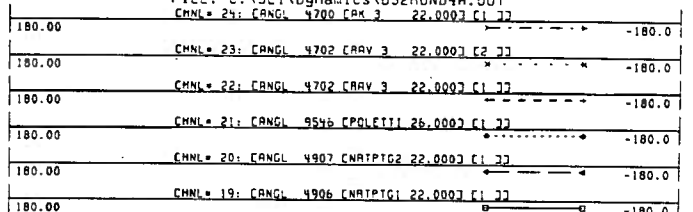
CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\052RUND4A.OUT
CHNL = 12: CANG 9390 CBOHLINE 20.0007 C1 JJ



FRI, MAR 31 2000 13:31
RUN 04A PLOT 2



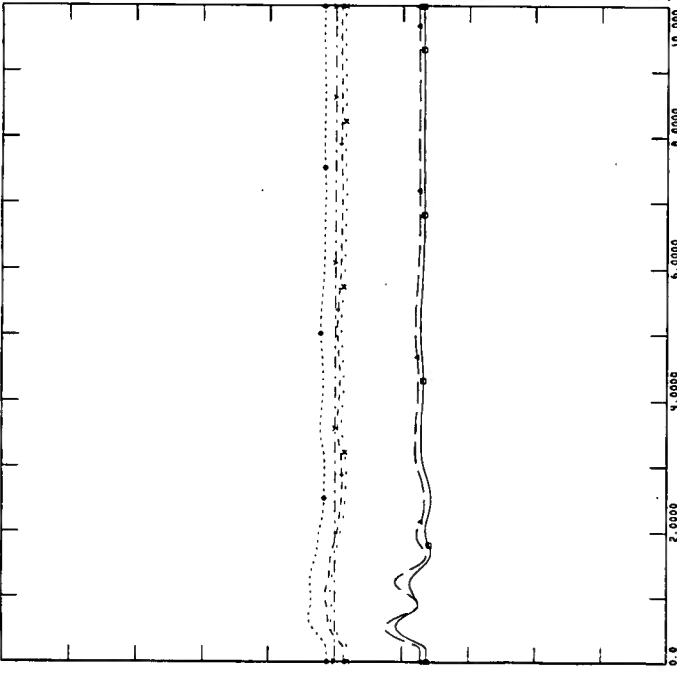
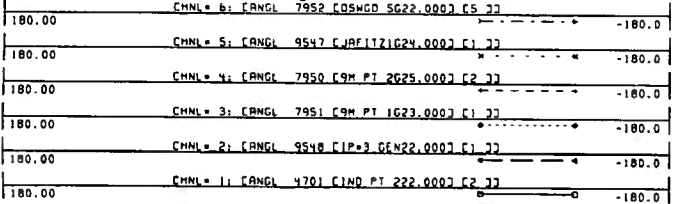
CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\052RUND4A.OUT
CHNL = 24: CANG 4700 CAP 3 22.0007 C1 JJ



FRI, MAR 31 2000 13:31
RUN 04A PLOT 4



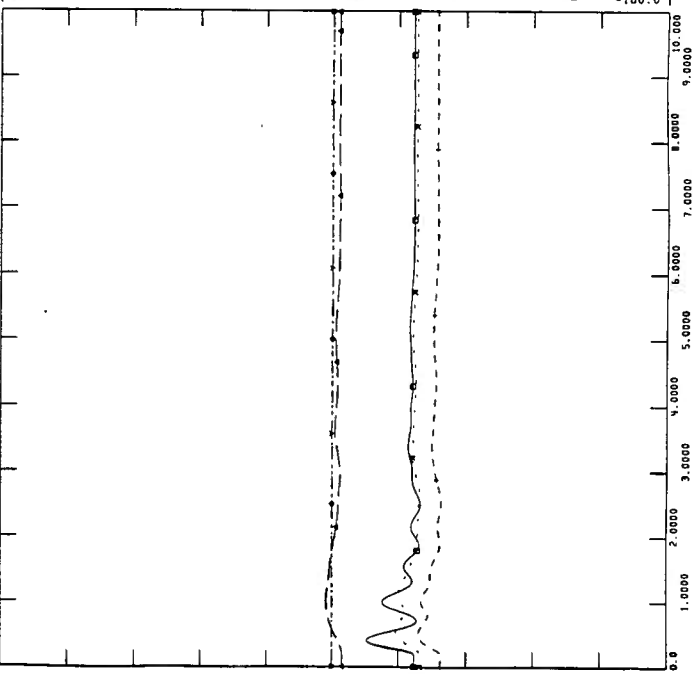
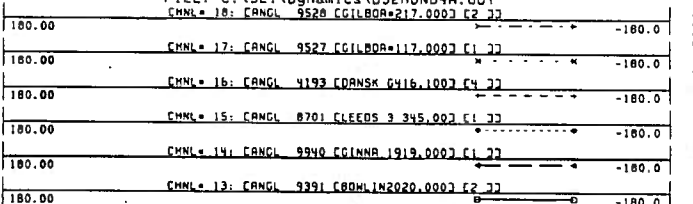
CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\052RUND4A.OUT
CHNL = 6: CANG 7952 COSMGO 5622.0007 C5 JJ



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RUN 04A PLOT 1



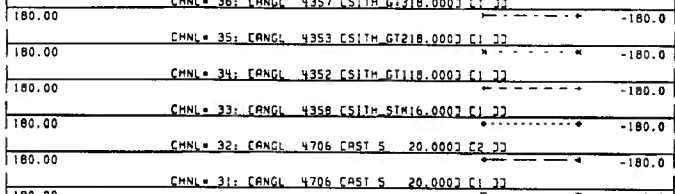
CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\052RUND4A.OUT
CHNL = 18: CANG 9528 CGILBORA 217.0007 C2 JJ



FRI, MAR 31 2000 13:31
RUN 04A PLOT 3



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS2AUND4A.OUT
CHNL = 36: CANGL 4357 CSITH GT218.0007 C1 JJ

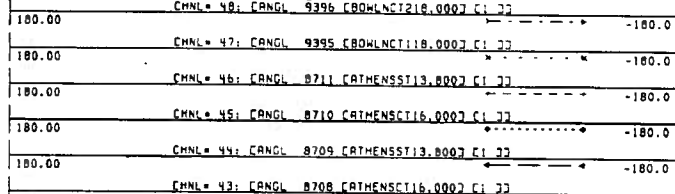


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RUN D4A PLOT 6

TIME (SECONDS)



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS2AUND4A.OUT
CHNL = 48: CANGL 9395 CBOWLNCT118.0007 C1 JJ

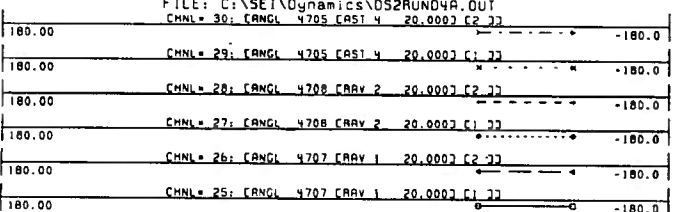


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RUN D4A PLOT 8

TIME (SECONDS)



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS2AUND4A.OUT
CHNL = 30: CANGL 4705 CAST 4 20.0007 C2 JJ

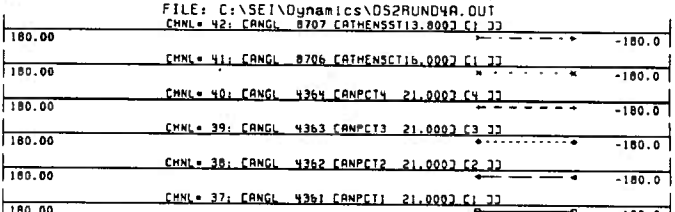


FRI, MAR 31 2000 13:31
RUN D4A PLOT 5

TIME (SECONDS)



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS2AUND4A.OUT
CHNL = 42: CANGL 8707 CATHENSCT13.0007 C1 JJ

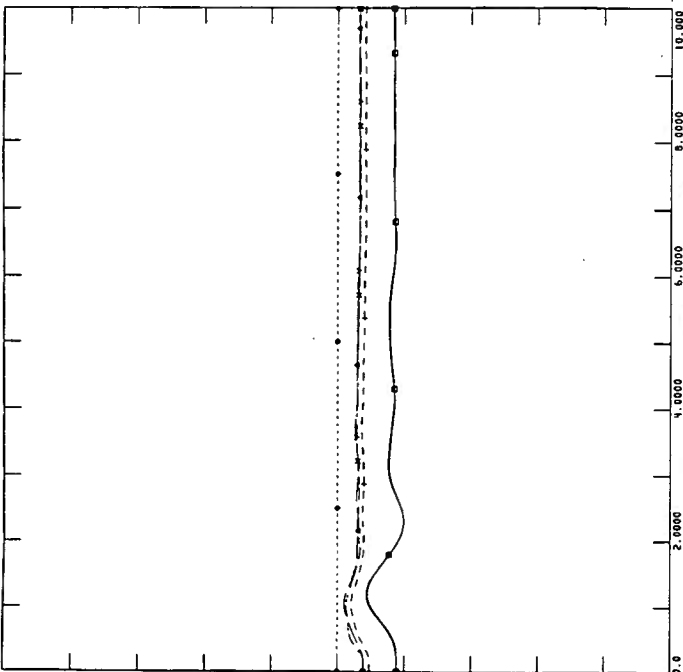
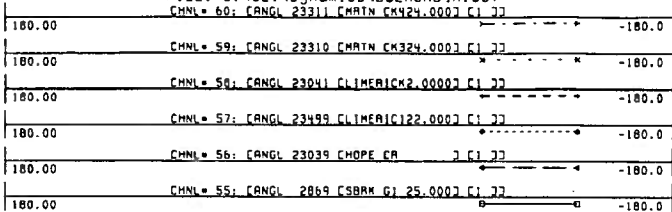


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RUN D4A PLOT 7

TIME (SECONDS)



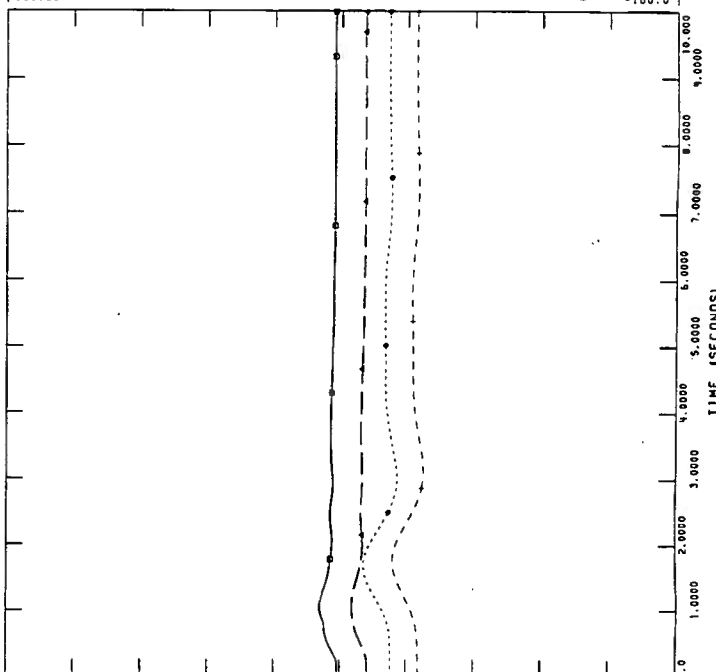
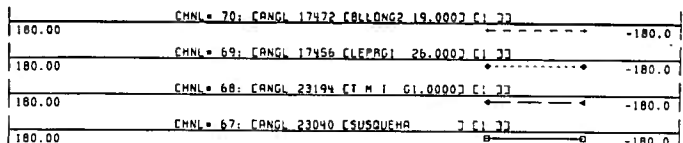
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\dynamics\DS2RUND4A.OUT
CHNL= 60: CANGI 23311 CMATN CM324.0002 C1 JJ



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RUN D4A PLOT 10



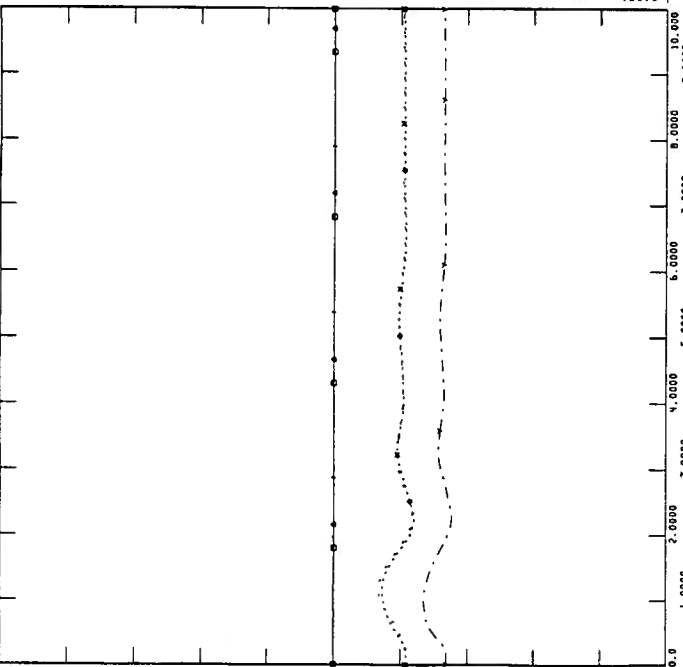
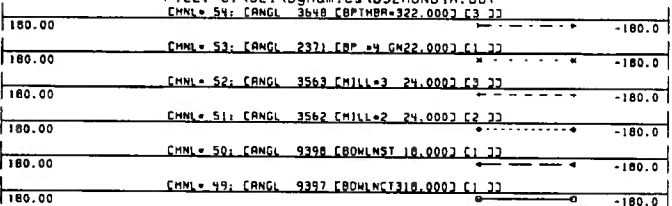
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\dynamics\DS2RUND4A.OUT



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RUN D4A PLOT 12



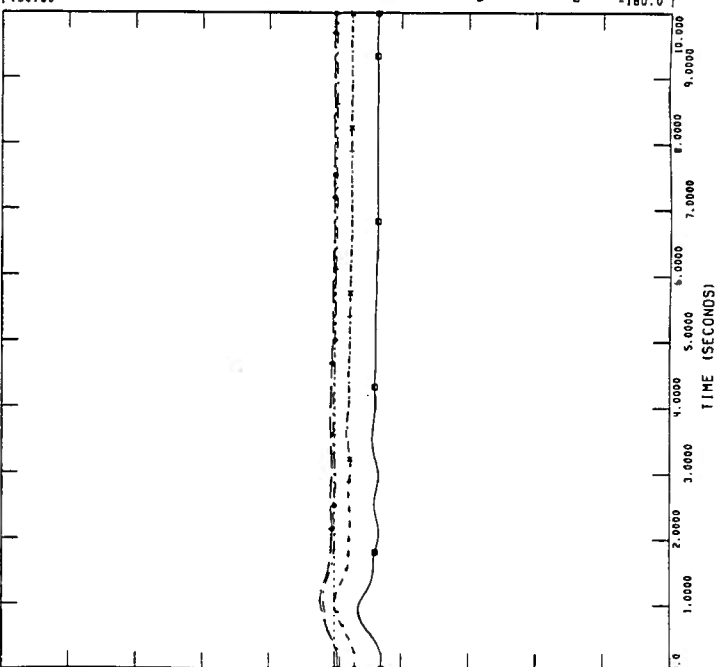
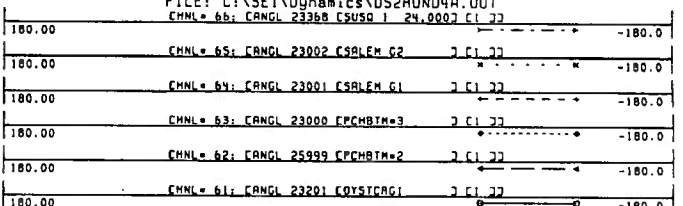
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\dynamics\DS2RUND4A.OUT
CHNL= 54: CANGI 3548 C0PTHBA=322.0002 C3 JJ



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RUN D4A PLOT 9

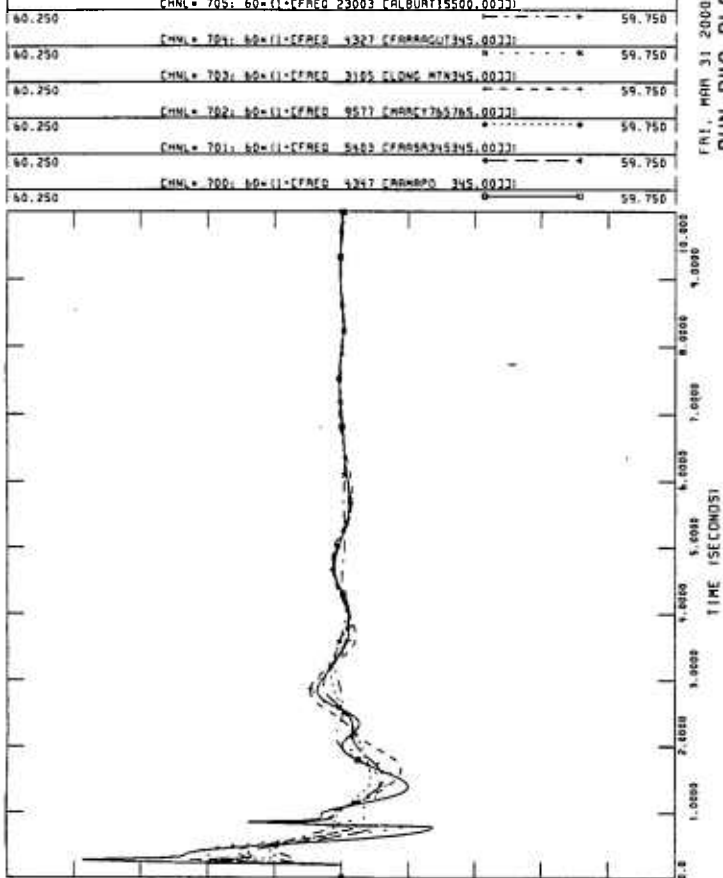


CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\dynamics\DS2RUND4A.OUT
CHNL= 65: CANGI 23002 C0SALEM G2 JJ



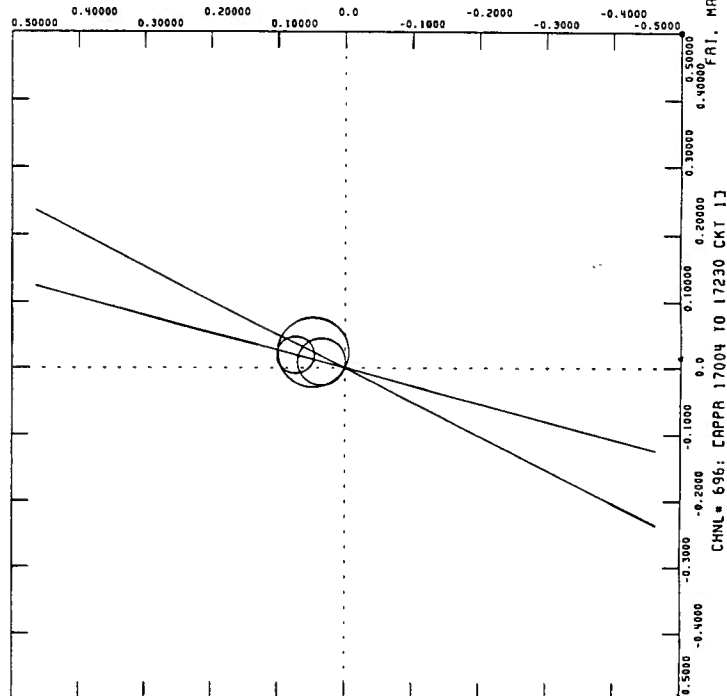
FRI, MAR 31 2000 13:31
RUN D4A PLOT 11

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS2AUND4A.OUT
CHNL = 705: 60-(1)-(FREQ 23003 CALBUT15500.0077)

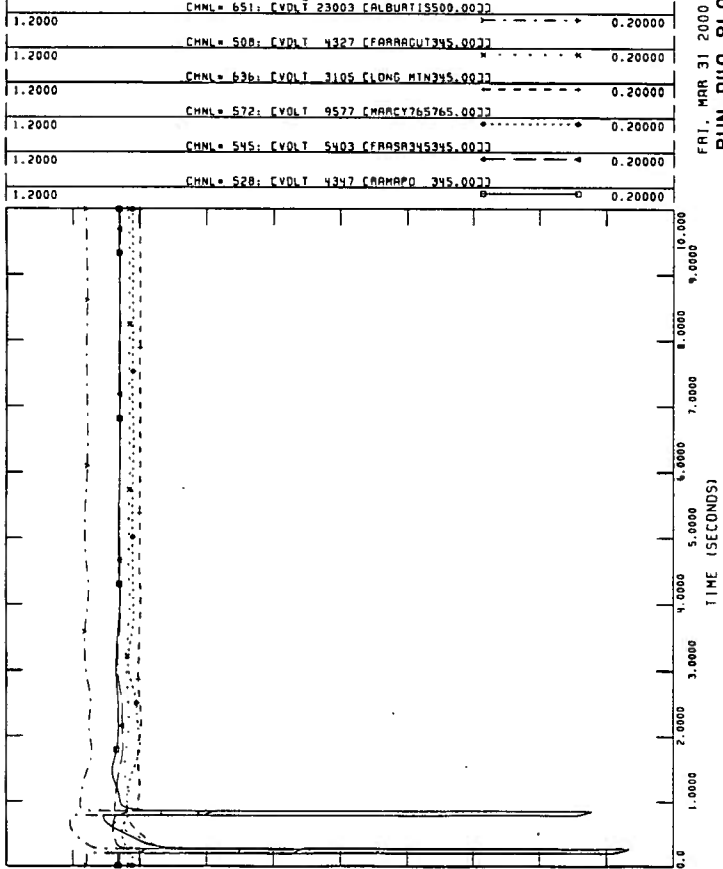


CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS2AUND4A.OUT

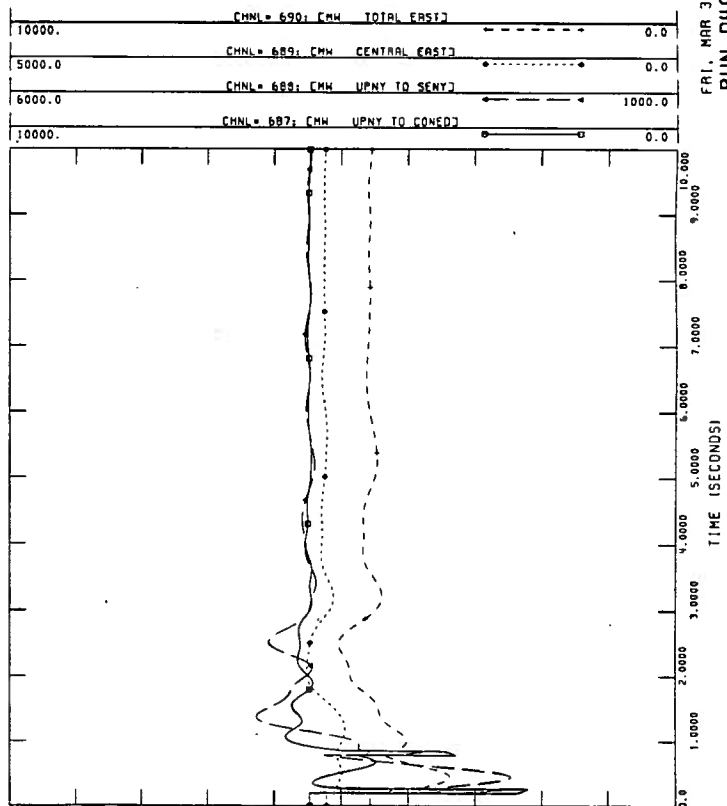
RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPX 17004 TO 17230 CKT 13



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS2AUND4A.OUT
CHNL = 651: CVOLT 23003 CALBUT15500.0077



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS2AUND4A.OUT

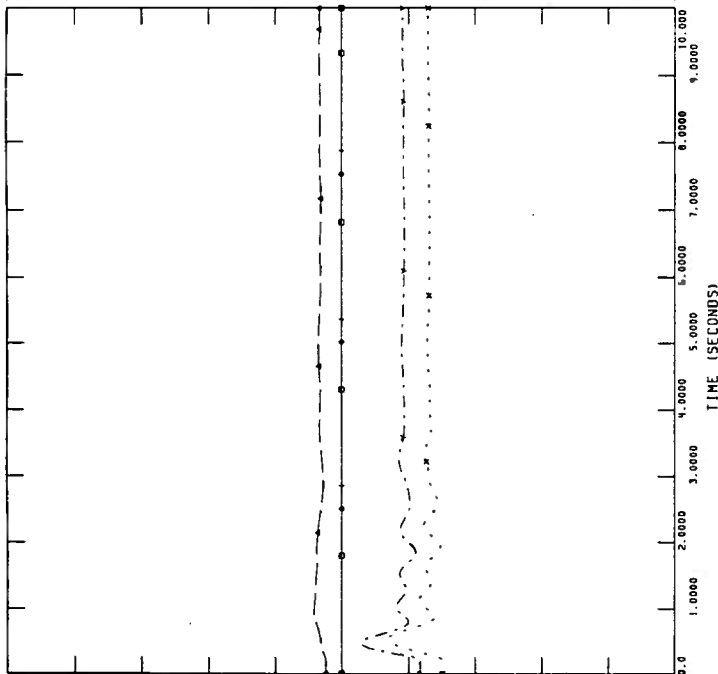


CONTINGENCY D4B

RECOVER FROM D1.SNP AND DS2.CNV
START OUTPUT DS2RUND4B.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2\RUND48.OUT
CHNL= 12: CANGL 9390 CROWLINE 20.0007 C1 JJ

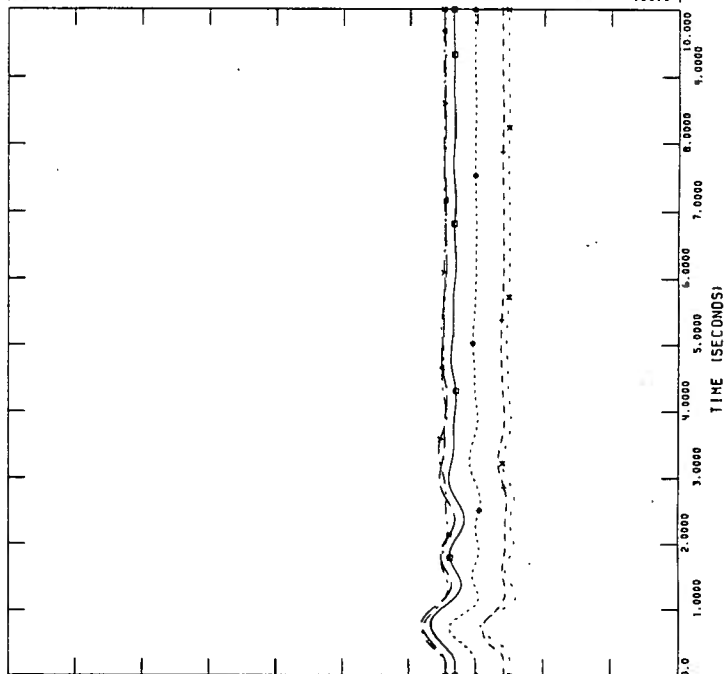
CHNL= 11: CANGL 9394 CLOVETT 520.0007 C5 JJ
CHNL= 10: CANGL 4192 CROSE GN224.0007 C2 JJ
CHNL= 9: CANGL 4190 CROSE GN124.0007 C1 JJ
CHNL= 8: CANGL 5523 CKINTIG2424.0007 C1 JJ
CHNL= 7: CANGL 7953 COSHGO 6022.0007 C6 JJ



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RUN D48 PLOT 2

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2\RUND48.OUT
CHNL= 24: CANGL 4700 CARV 3 22.0007 C1 JJ

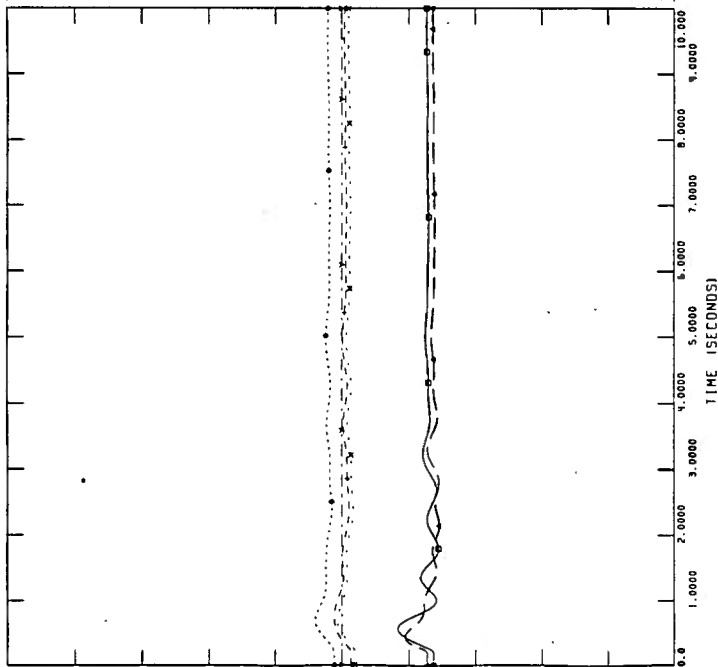
CHNL= 23: CANGL 4702 CARV 3 22.0007 C2 JJ
CHNL= 22: CANGL 4702 CARV 3 22.0007 C1 JJ
CHNL= 21: CANGL 9546 CPOLETTI 26.0007 C1 JJ
CHNL= 20: CANGL 4907 CNATPTG2 22.0007 C1 JJ
CHNL= 19: CANGL 4906 CNATPTG1 22.0007 C1 JJ



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RUN D48 PLOT 4

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2\RUND48.OUT
CHNL= 6: CANGL 7952 COSHGO 5022.0007 C5 JJ

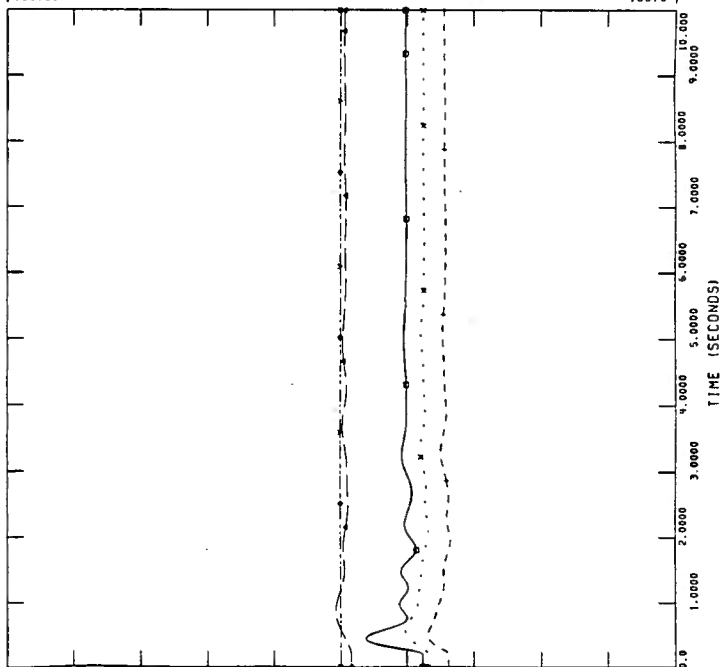
CHNL= 5: CANGL 9547 CJAFIT21624.0007 C1 JJ
CHNL= 4: CANGL 7950 C9M PT 2025.0007 C2 JJ
CHNL= 3: CANGL 7951 C9M PT 1023.0007 C1 JJ
CHNL= 2: CANGL 9548 CIP=3 GEN22.0007 C1 JJ
CHNL= 1: CANGL 4701 CIND PT 222.0007 C2 JJ



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RUN D48 PLOT 1

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2\RUND48.OUT
CHNL= 18: CANGL 9528 GILBORA 217.0007 C2 JJ

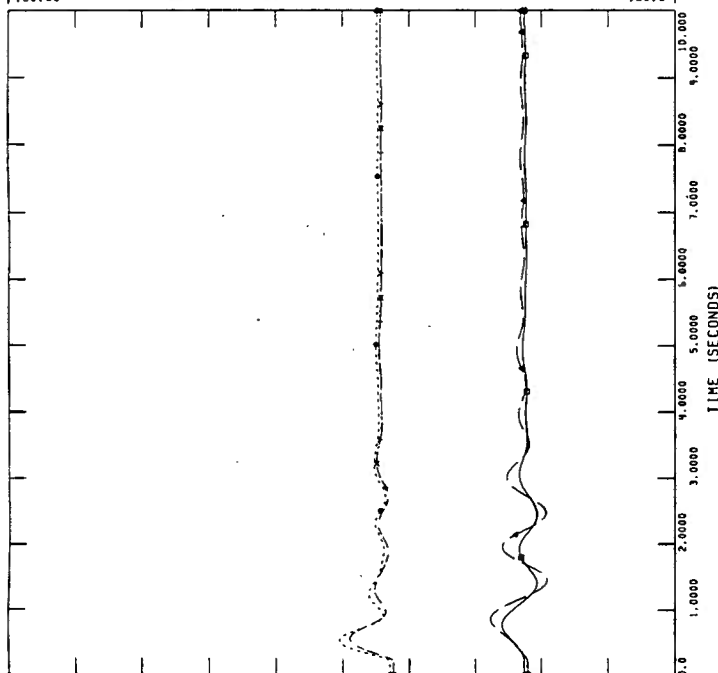
CHNL= 17: CANGL 9527 GILBORA 117.0007 C1 JJ
CHNL= 16: CANGL 4193 CORANX 6416.1007 C4 JJ
CHNL= 15: CANGL 8701 CLEEDS 3 345.0007 C1 JJ
CHNL= 14: CANGL 9940 CGINNA 1919.0007 C1 JJ
CHNL= 13: CANGL 9391 CROWLINE 2020.0007 C2 JJ



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RUN D48 PLOT 3

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2RUND4B.OUT
CHNL = 35: CANGL 4353 CSITH GT218.0002 C1 JJ

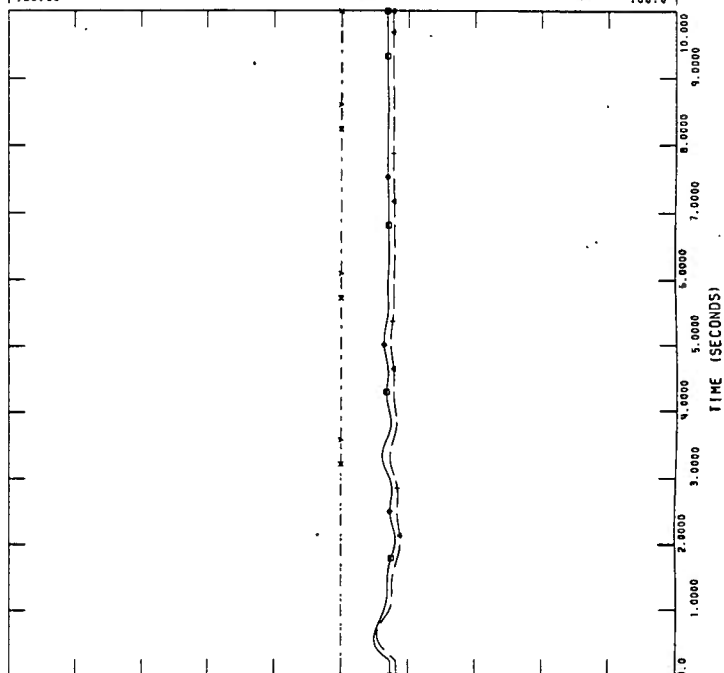
CHNL = 35: CANGL 4353 CSITH GT218.0002 C1 JJ
CHNL = 34: CANGL 4352 CSITH GT118.0002 C1 JJ
CHNL = 33: CANGL 4358 CSITH STM16.0002 C1 JJ
CHNL = 32: CANGL 4706 CAST 5 20.0002 C2 JJ
CHNL = 31: CANGL 4706 CAST 5 20.0002 C1 JJ



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RUN D4B PLOT 6

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2RUND4B.OUT
CHNL = 48: CANGL 9395 C80WLNCT118.0002 C1 JJ

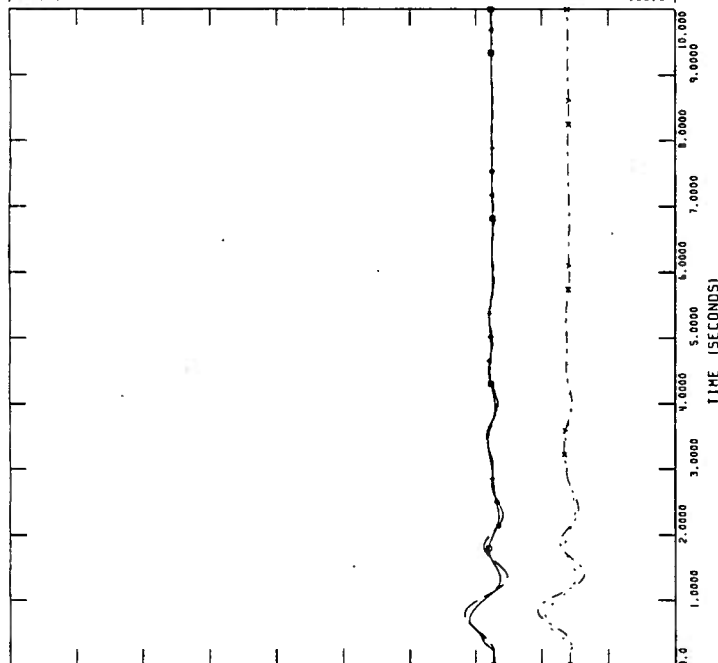
CHNL = 47: CANGL 9395 C80WLNCT118.0002 C1 JJ
CHNL = 46: CANGL 8711 CATHENSST13.8002 C1 JJ
CHNL = 45: CANGL 8710 CATHENSST16.0002 C1 JJ
CHNL = 44: CANGL 8709 CATHENSST13.8002 C1 JJ
CHNL = 43: CANGL 8708 CATHENSST16.0002 C1 JJ



FRI, MAR 31 2000 13:35
RUN D4B PLOT 8

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2RUND4B.OUT
CHNL = 39: CANGL 4705 CAST 4 20.0002 C2 JJ

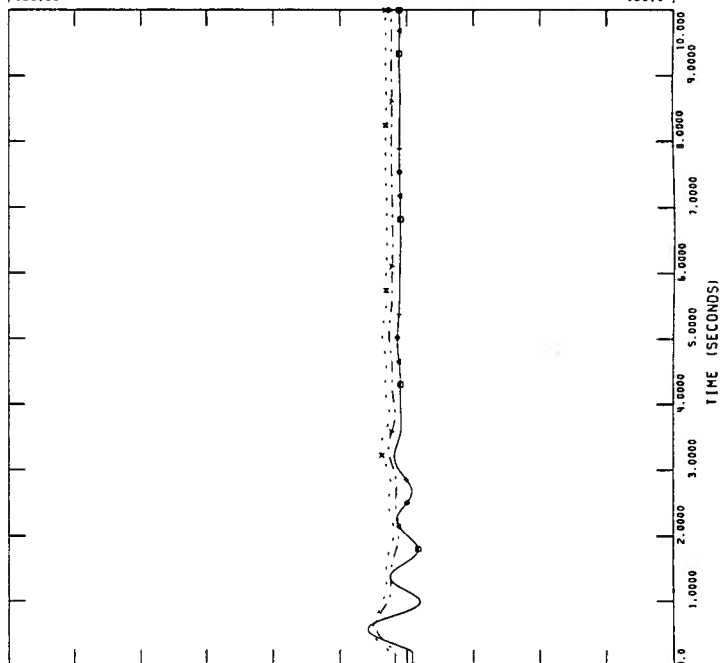
CHNL = 29: CANGL 4705 CAST 4 20.0002 C1 JJ
CHNL = 28: CANGL 4708 CARY 2 20.0002 C2 JJ
CHNL = 27: CANGL 4708 CARY 2 20.0002 C1 JJ
CHNL = 26: CANGL 4707 CARY 1 20.0002 C2 JJ
CHNL = 25: CANGL 4707 CARY 1 20.0002 C1 JJ



FRI, MAR 31 2000 13:35
RUN D4B PLOT 5

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2RUND4B.OUT
CHNL = 42: CANGL 8707 CATHENSST13.8002 C1 JJ

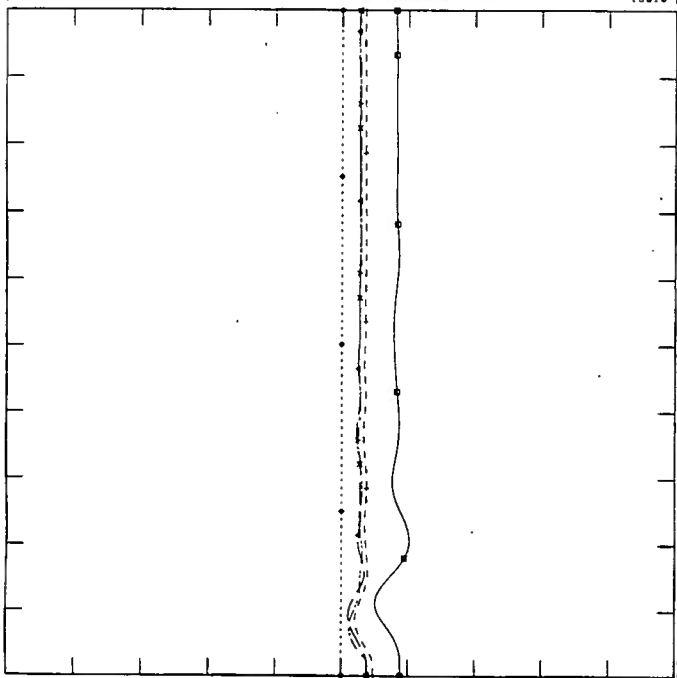
CHNL = 41: CANGL 8706 CATHENSST16.0002 C1 JJ
CHNL = 40: CANGL 4364 CANPCT4 21.0002 C4 JJ
CHNL = 39: CANGL 4353 CANPCT3 21.0002 C3 JJ
CHNL = 38: CANGL 4352 CANPCT2 21.0002 C2 JJ
CHNL = 37: CANGL 4361 CANPCT1 21.0002 C1 JJ



FRI, MAR 31 2000 13:35
RUN D4B PLOT 7

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2\RUND4B.OUT
CHNL = 50: CANGL 23311 CMATN CM424.0003 C1 JJ

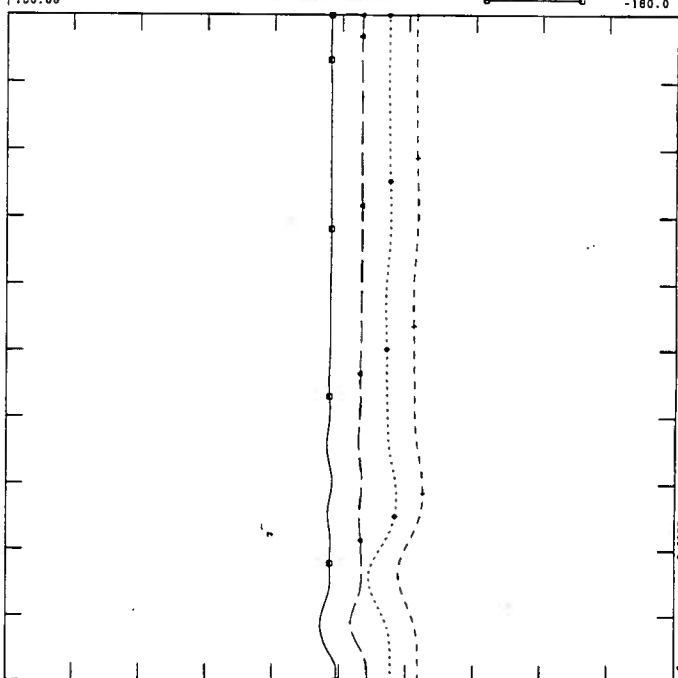
CHNL = 59: CANGL 23310 CMATN CM424.0003 C1 JJ
CHNL = 58: CANGL 23041 CLIMERIC2.00003 C1 JJ
CHNL = 57: CANGL 23499 CLIMERIC122.0003 C1 JJ
CHNL = 56: CANGL 23039 CHOPE CA J C1 JJ
CHNL = 55: CANGL 2859 CSBAX G1 25.0003 C1 JJ



FRI, MAR 31 2000 13:35
RUN D4B PLOT 10

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2\RUND4B.OUT

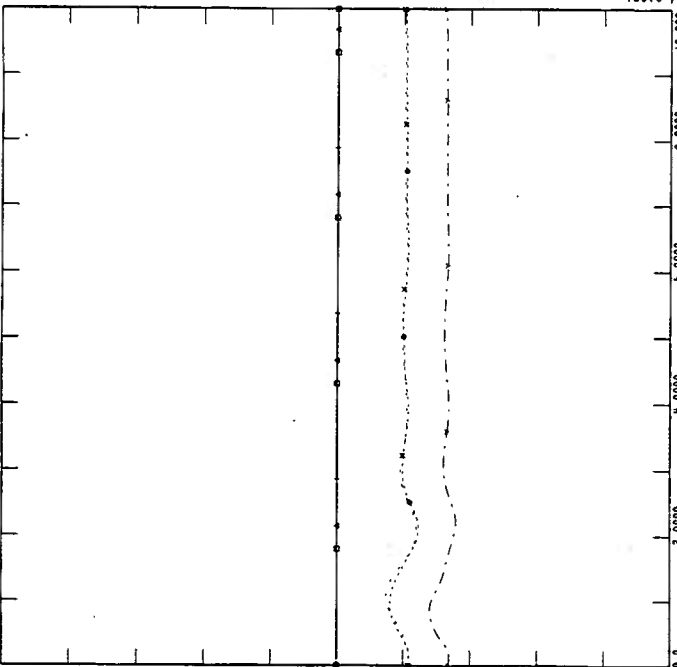
CHNL = 70: CANGL 17472 CBLDNG2 19.0003 C1 JJ
CHNL = 69: CANGL 17456 CLEPAG1 26.0003 C1 JJ
CHNL = 68: CANGL 23194 CT M I G1.00003 C1 JJ
CHNL = 67: CANGL 23040 CSUSQUEHA J C1 JJ



FRI, MAR 31 2000 13:35
RUN D4B PLOT 12

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2\RUND4B.OUT
CHNL = 54: CANGL 3649 CFBTHA322.0003 C3 JJ

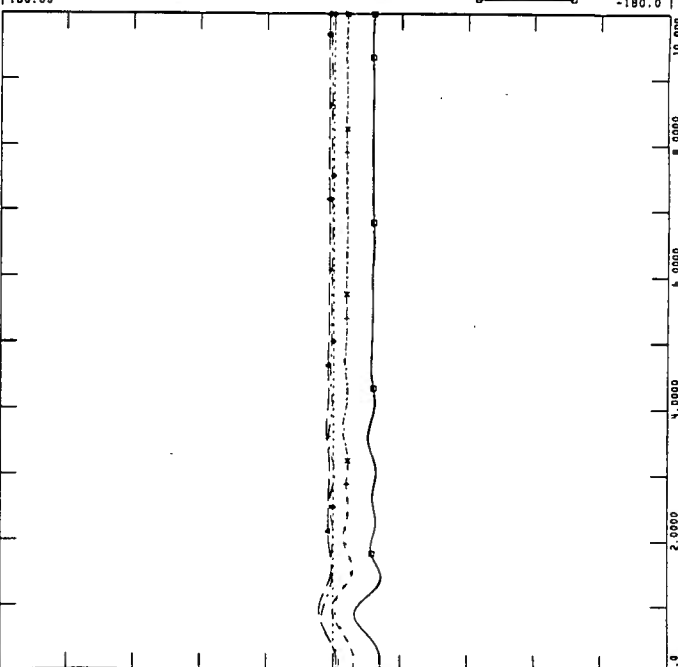
CHNL = 53: CANGL 2371 CAP -4 CM22.0003 C1 JJ
CHNL = 52: CANGL 3563 CMILL=3 24.0003 C3 JJ
CHNL = 51: CANGL 3562 CMILL=2 24.0003 C2 JJ
CHNL = 50: CANGL 9398 CBOWINST 18.0003 C1 JJ
CHNL = 49: CANGL 9397 CBOWINST18.0003 C1 JJ



FRI, MAR 31 2000 13:35
RUN D4B PLOT 9

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS2\RUND4B.OUT
CHNL = 66: CANGL 23368 CSUSD 1 24.0003 C1 JJ

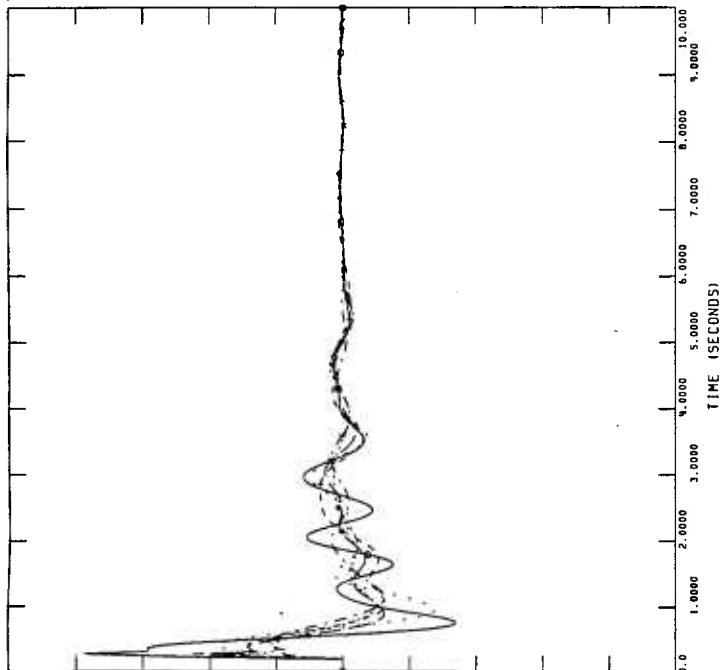
CHNL = 65: CANGL 23002 CSALEN G2 J C1 JJ
CHNL = 64: CANGL 23001 CSALEN G1 J C1 JJ
CHNL = 63: CANGL 23000 CPCHBTM=3 J C1 JJ
CHNL = 62: CANGL 25999 CPCHBTM=2 J C1 JJ
CHNL = 61: CANGL 23201 COYSTERG1 J C1 JJ



FRI, MAR 31 2000 13:35
RUN D4B PLOT 11

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamics\DS2AUND48.OUT
CHNL = 705: 60*(1-CFREQ 23003 CALBUT15500.0072)

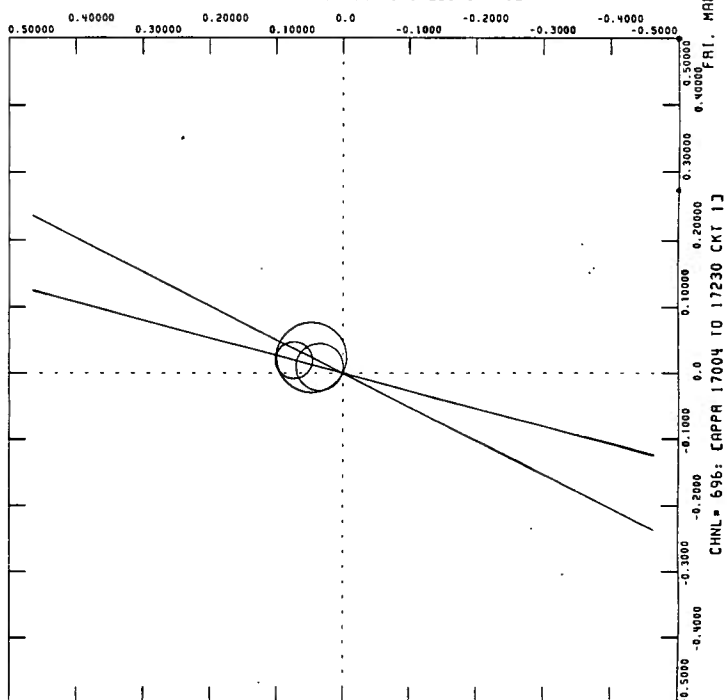
60.250 CHNL = 704: 60*(1-CFREQ 4327 CFARAGU1345.0072) 59.750
60.250 CHNL = 703: 60*(1-CFREQ 3105 CLONG MIN345.0072) 59.750
60.250 CHNL = 702: 60*(1-CFREQ 9577 CMARCT765765.0072) 59.750
60.250 CHNL = 701: 60*(1-CFREQ 5403 CFARAS345345.0072) 59.750
60.250 CHNL = 700: 60*(1-CFREQ 4347 CARMAPD 345.0072) 59.750



FRI, MAR 31 2000 13:35
RUN D48 PLOT 14

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamics\DS2AUND48.OUT

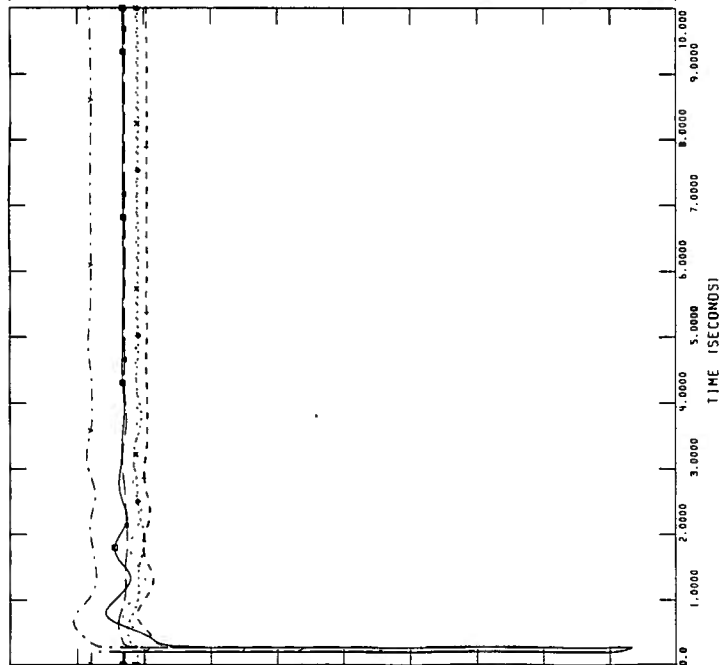
RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: EAPX 17004 TO 17230 CKT 13



FRI, MAR 31 2000 13:35
RUN D48 PLOT 15

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamics\DS2AUND48.OUT
CHNL = 651: CVOLT 23003 CALBUT15500.0072

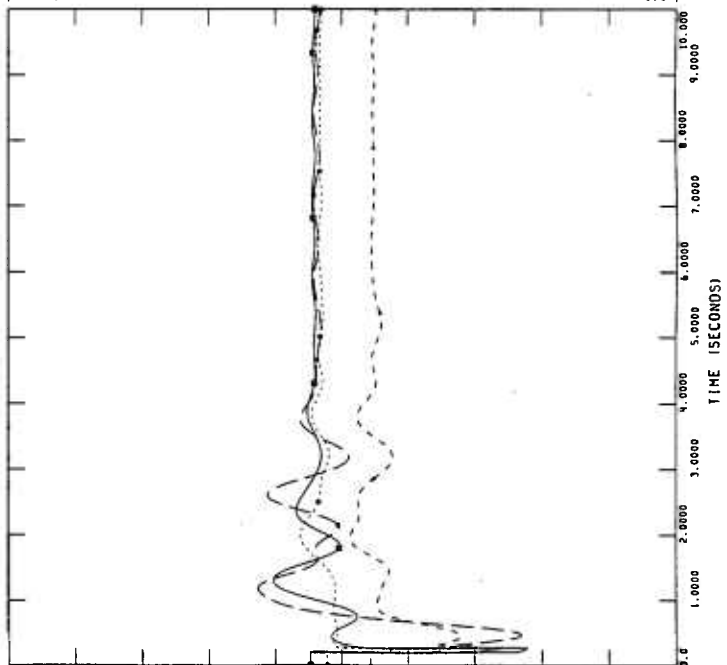
1.2000 CHNL = 508: CVOLT 4327 CFARAGU1345.0072 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MIN345.0072 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCT765765.0072 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARAS345345.0072 0.20000
1.2000 CHNL = 528: CVOLT 4347 CARMAPD 345.0072 0.20000



FRI, MAR 31 2000 13:35
RUN D48 PLOT 16

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamics\DS2AUND48.OUT

CHNL = 690: CMW TOTAL EAST
CHNL = 689: CMW CENTRAL EAST
CHNL = 688: CMW UPNY TO SENT
CHNL = 687: CMW UPNY TO CONED



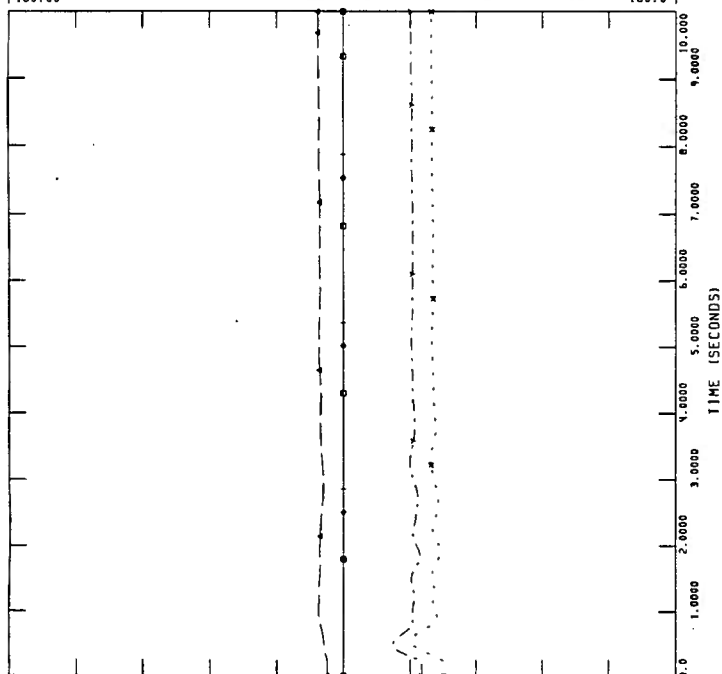
FRI, MAR 31 2000 13:35
RUN D48 PLOT 17

CONTINGENCY D4C

RECOVER FROM D1.SNP AND DS2.CNV
START OUTPUT DS2RUND4C.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4312 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN N
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4312 TO BUS 4317 CKT 1 / TRIP BUCHANAN-EASTVIEW
TRIP BRANCH FROM BUS 4317 TO BUS 4428 CKT 1 / TRIP EASTVIEW XFMR
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2AUND4C.OUT
CHNL= 12: CANGL 9390 CROWLINE 20.0003 C1 JJ

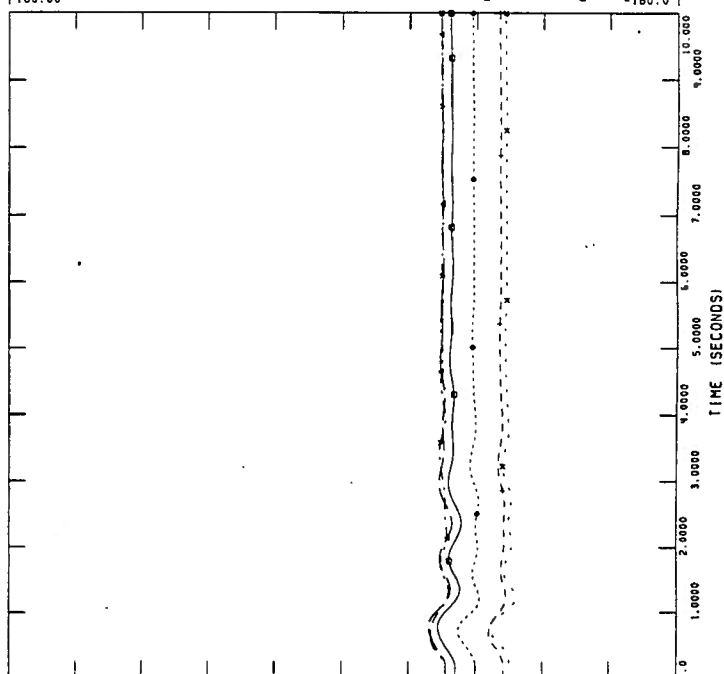
CHNL= 11: CANGL 9394 CLOVETT 520.0003 C5 JJ
CHNL= 10: CANGL 4192 CROSE GN224.0003 C2 JJ
CHNL= 9: CANGL 4190 CROSE GN124.0003 C1 JJ
CHNL= 8: CANGL 5523 CKINTIG2424.0003 C1 JJ
CHNL= 7: CANGL 7953 COSHGO 6022.0003 C6 JJ



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RUN 04C PLOT 2

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2AUND4C.OUT
CHNL= 24: CANGL 4700 CAX 3 22.0003 C1 JJ

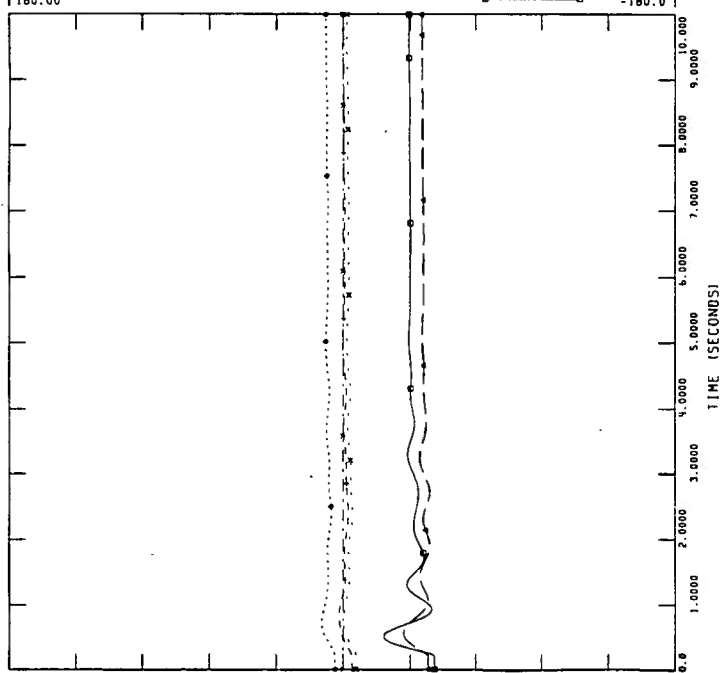
CHNL= 23: CANGL 4702 CAV 3 22.0003 C2 JJ
CHNL= 22: CANGL 4702 CAV 3 22.0003 C1 JJ
CHNL= 21: CANGL 9546 CPOLETTI 26.0003 C1 JJ
CHNL= 20: CANGL 4907 CNATPTG2 22.0003 C1 JJ
CHNL= 19: CANGL 4906 CNATPTG1 22.0003 C1 JJ



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RUN 04C PLOT 4

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2AUND4C.OUT
CHNL= 6: CANGL 7952 COSHGO 5022.0003 C5 JJ

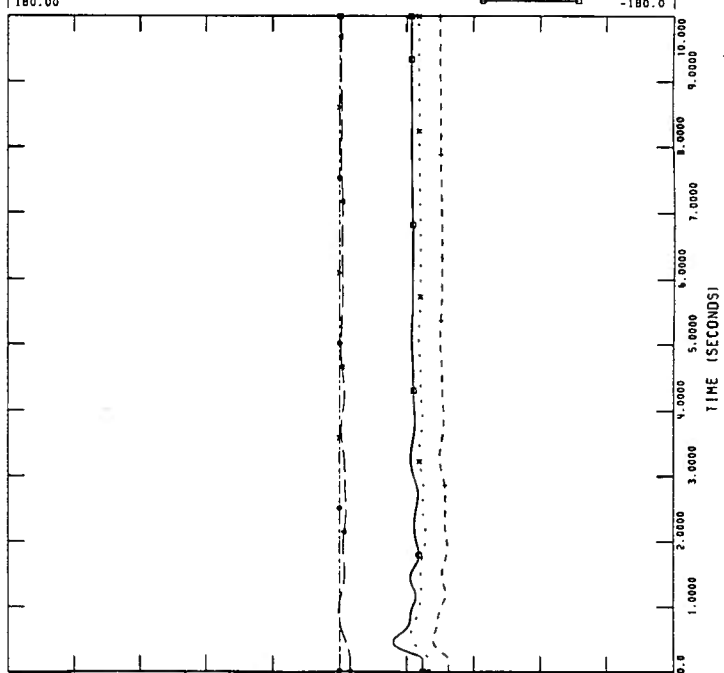
CHNL= 5: CANGL 9547 CJRF171624.0003 C1 JJ
CHNL= 4: CANGL 7950 C9M PT 2025.0003 C2 JJ
CHNL= 3: CANGL 7951 C9M PT 1023.0003 C1 JJ
CHNL= 2: CANGL 9548 CIP=3 CEN22.0003 C1 JJ
CHNL= 1: CANGL 4701 CIND PT 222.0003 C2 JJ



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RUN 04C PLOT 1

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2AUND4C.OUT
CHNL= 18: CANGL 9528 CGILB08-217.0003 C2 JJ

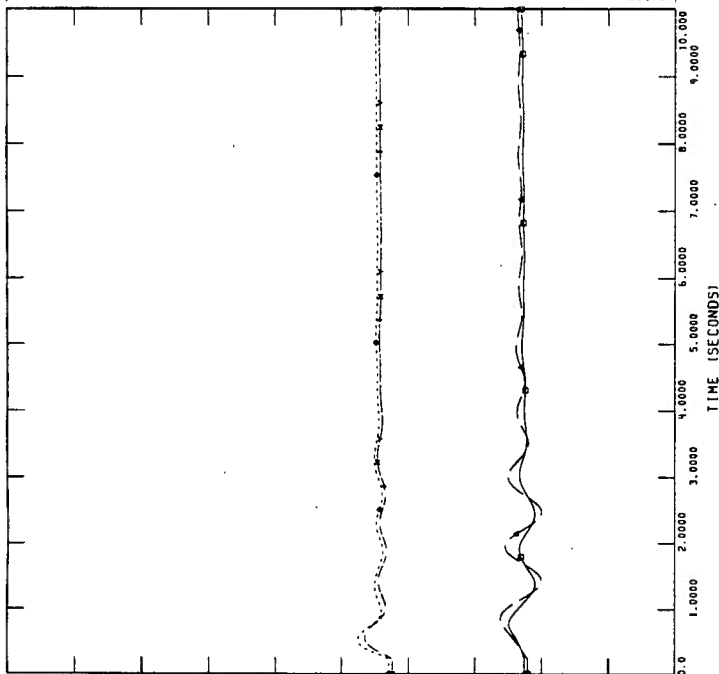
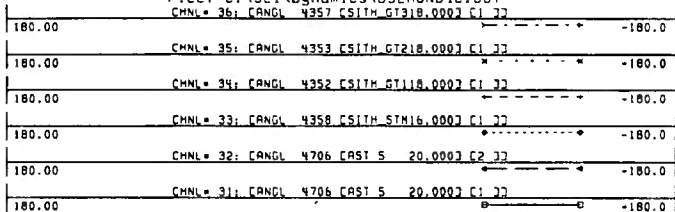
CHNL= 17: CANGL 9527 CGILB08-117.0003 C1 JJ
CHNL= 16: CANGL 4193 CDRANSK 6416.1003 C4 JJ
CHNL= 15: CANGL 8701 CLEEDS 3 345.003 C1 JJ
CHNL= 14: CANGL 9940 CGINNA 1919.0003 C1 JJ
CHNL= 13: CANGL 9391 CROWLINE 2020.0003 C2 JJ



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RUN 04C PLOT 3



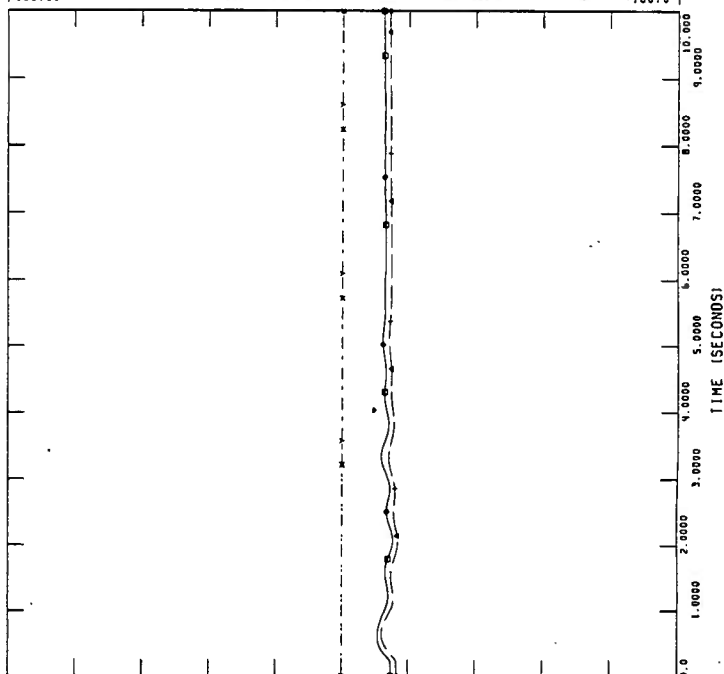
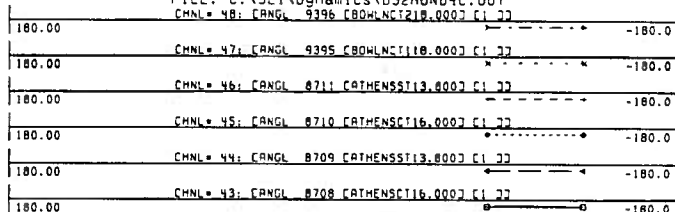
CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT
CHNL= 36: CANGL 4357 CSITH GT18.0007 C1 JJ



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RUN D4C PLOT 6



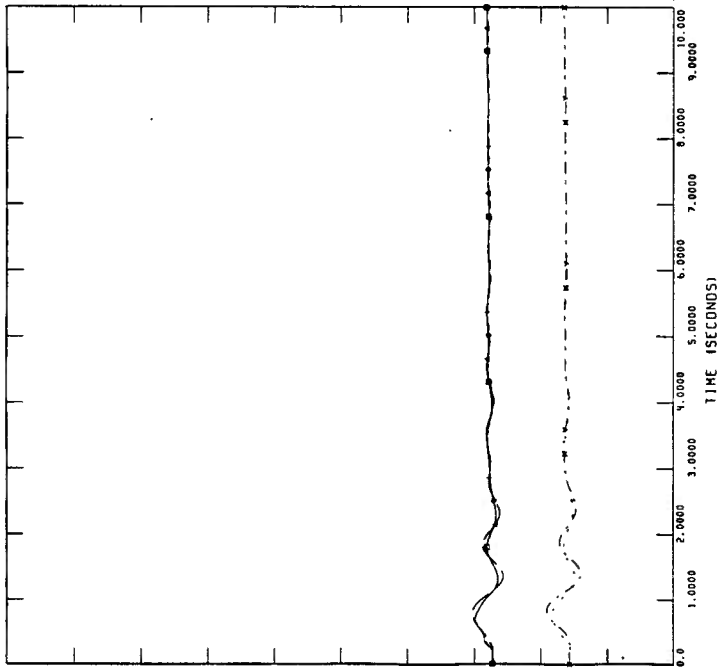
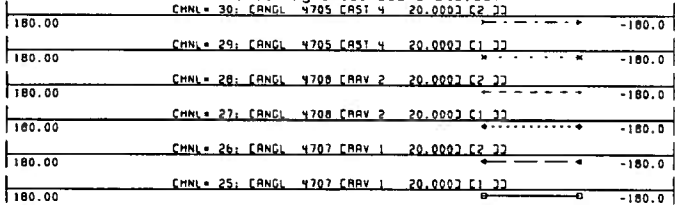
CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT
CHNL= 48: CANGL 9396 CBOWLNCI18.0007 C1 JJ



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RUN D4C PLOT 8



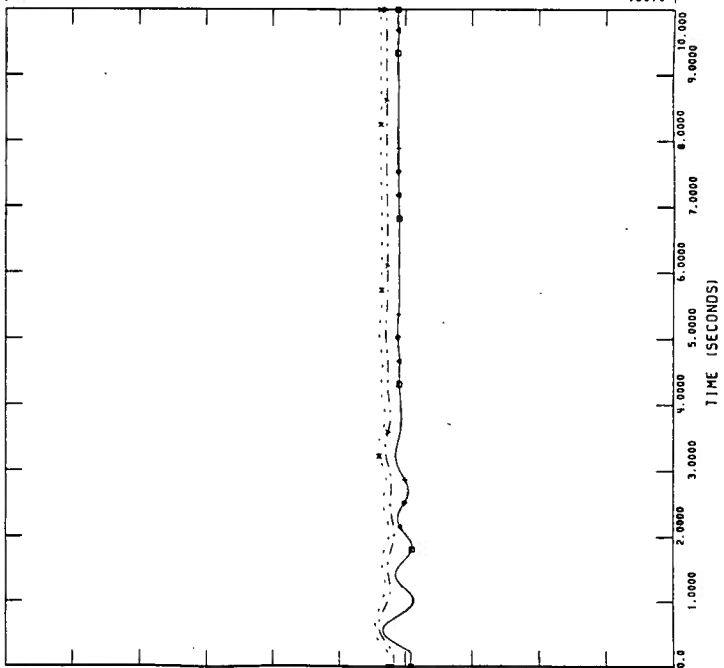
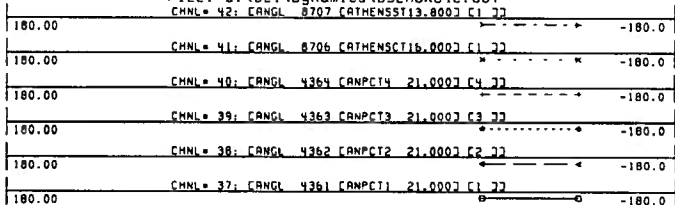
CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT
CHNL= 30: CANGL 4705 CAST 4 20.0007 C2 JJ



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RUN D4C PLOT 5



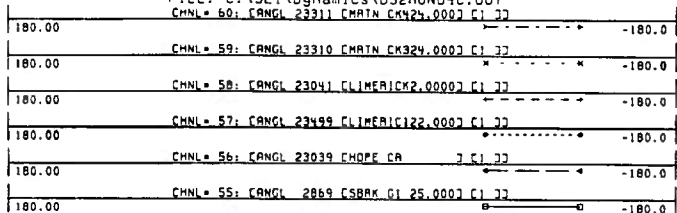
CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT
CHNL= 42: CANGL 8707 CATHENSCT13.0007 C1 JJ



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RUN D4C PLOT 7



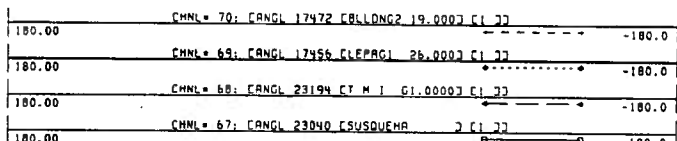
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE. ANP. BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT
CHNL= 50: CANGL 23311 CMATN CK424.0000 C1 JJ



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RUN D4C PLOT 10



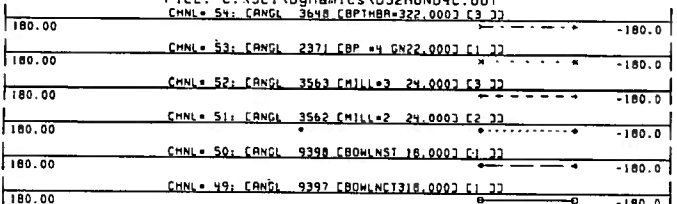
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE. ANP. BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT
CHNL= 70: CANGL 17472 CBLDNG2 19.0000 C1 JJ



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RUN D4C PLOT 12



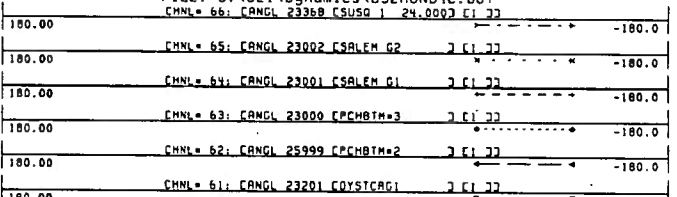
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE. ANP. BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT
CHNL= 54: CANGL 3648 CBPTHBA322.0000 C3 JJ



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RUN D4C PLOT 9



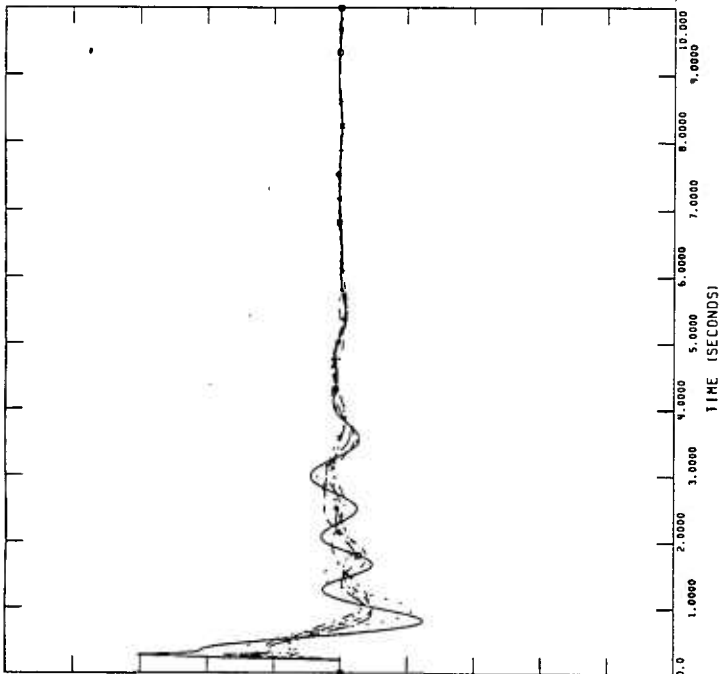
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE. ANP. BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N. TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT
CHNL= 66: CANGL 23368 CSUSQ 24.0000 C1 JJ



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RUN D4C PLOT 11

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT
CHNL = 705: 60 (1-CFREQ 23003 [RABUT15500.003])

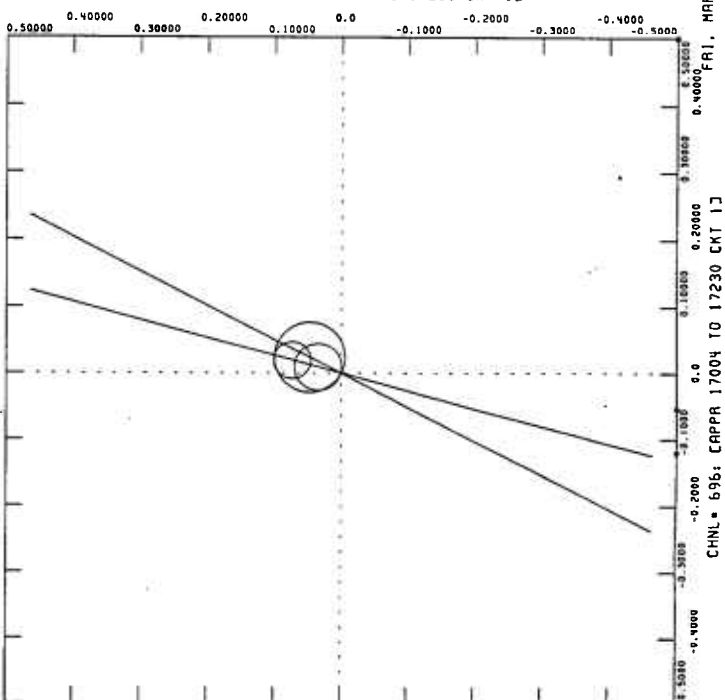
CHNL = 704: 60 (1-CFREQ 4327 [FARRAGUT1345.003])
CHNL = 703: 60 (1-CFREQ 3105 [LONG MTN345.003])
CHNL = 702: 60 (1-CFREQ 9577 [MARCY765765.003])
CHNL = 701: 60 (1-CFREQ 5403 [FARRAGUT1345.003])
CHNL = 700: 60 (1-CFREQ 4347 [RABUT15500.003])



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RUN D4C PLOT 14

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT

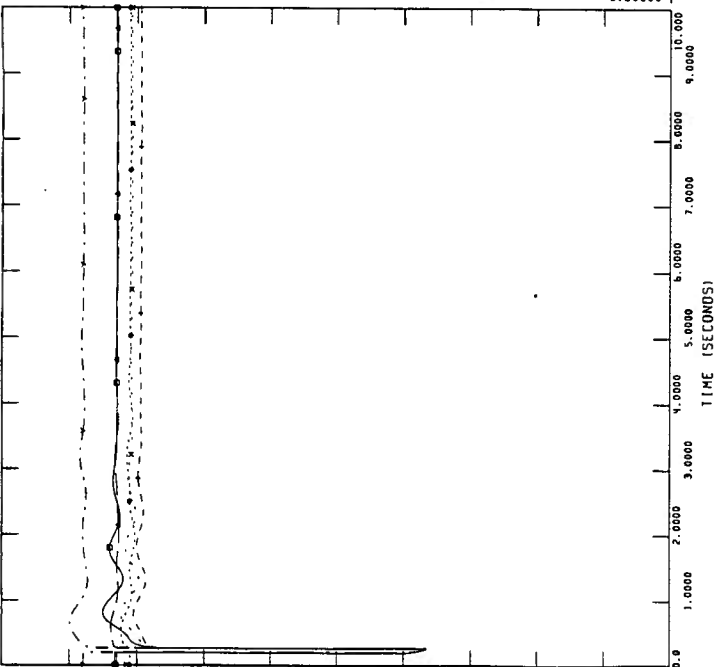
RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPX 17004 TO 17230 CKT 13



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RUN D4C PLOT 16

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT
CHNL = 651: CVOLT 23003 [RABUT15500.003]

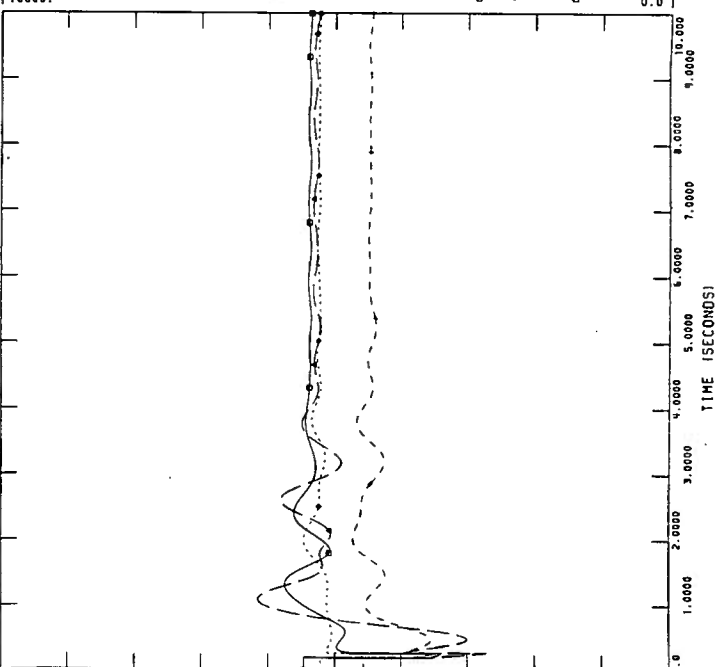
CHNL = 508: CVOLT 4327 [FARRAGUT1345.003]
CHNL = 636: CVOLT 3105 [LONG MTN345.003]
CHNL = 572: CVOLT 9577 [MARCY765765.003]
CHNL = 545: CVOLT 5403 [FARRAGUT1345.003]
CHNL = 528: CVOLT 4347 [RABUT15500.003]



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RUN D4C PLOT 13

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS2RUND4C.OUT

CHNL = 690: CMW TOTAL EAST
CHNL = 689: CMW CENTRAL EAST
CHNL = 688: CMW UPNY TO SENE
CHNL = 687: CMW UPNY TO CONED



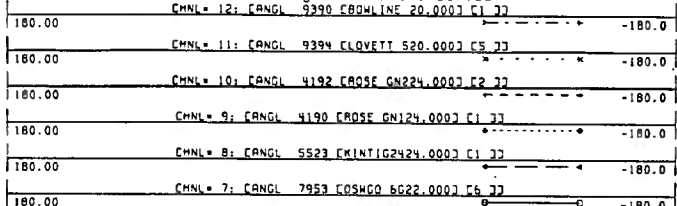
FRI, MAR 31 2000 13:35
RUN D4C PLOT 15

CONTINGENCY D5A

RECOVER FROM D1.SNP AND DS2.CNV
START OUTPUT DS2RUND5A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4313 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN S
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 1 / TRIP BUCHANAN S-MILLWOOD 1
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 2 / TRIP BUCHANAN S-MILLWOOD 2
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



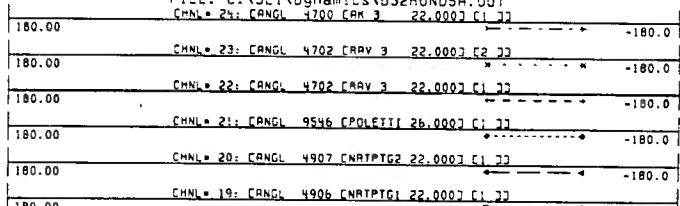
CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2A\DS2A.OUT
CHNL = 12: CANGL 9390 CROWLINE 20.0000 C1 JJ



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RUN D5A PLOT 2



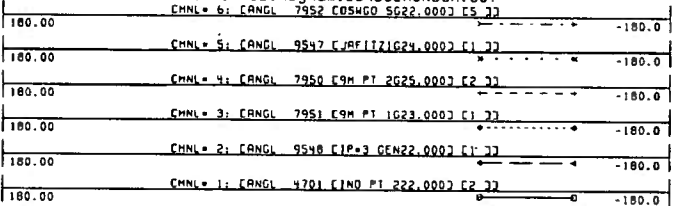
CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2A\DS2A.OUT
CHNL = 24: CANGL 4700 CARV 22.0000 C1 JJ



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RUN D5A PLOT 4



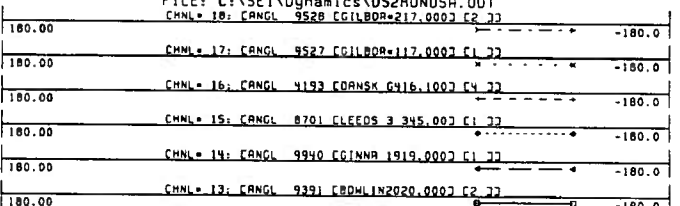
CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2A\DS2A.OUT
CHNL = 6: CANGL 7952 CASHGO 5622.0000 C5 JJ



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RUN D5A PLOT 1



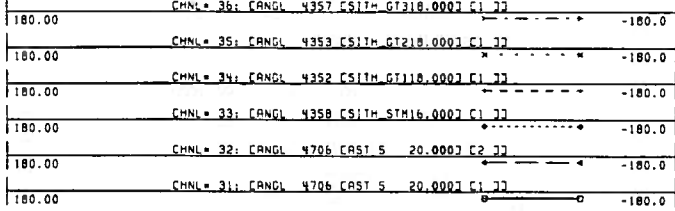
CASE D52: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2A\DS2A.OUT
CHNL = 18: CANGL 9528 CAILBOR 217.0000 C2 JJ



FRI, MAR 31 2000 13:35
RUN D5A PLOT 3



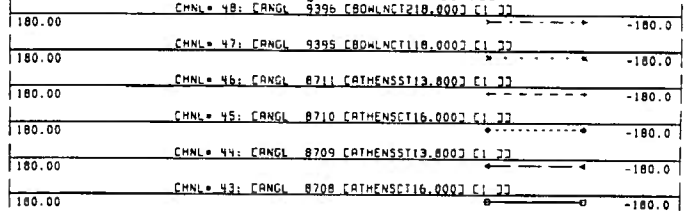
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2\RUNDSA.OUT
CHNL= 38: CANGL 4357 CSITH GT318.0007 C1 JJ



FRI, MAR 31 2000 13:35
RUN D5A PLOT 6



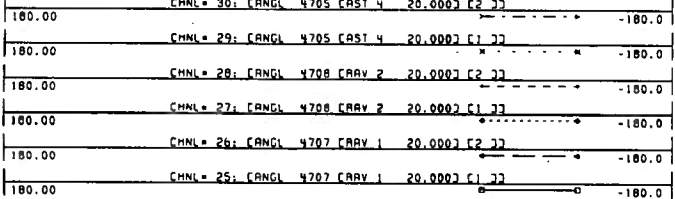
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2\RUNDSA.OUT
CHNL= 48: CANGL 9395 CBOWLNCT118.0007 C1 JJ



FRI, MAR 31 2000 13:35
RUN D5A PLOT 8



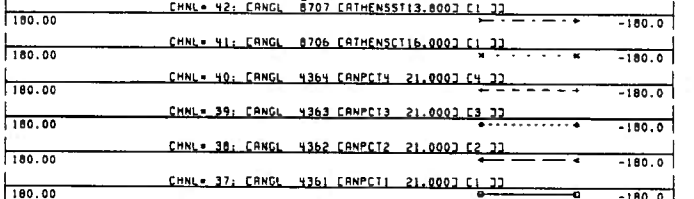
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2\RUNDSA.OUT
CHNL= 30: CANGL 4705 CAST 4 20.0007 C2 JJ



FRI, MAR 31 2000 13:35
RUN D5A PLOT 5



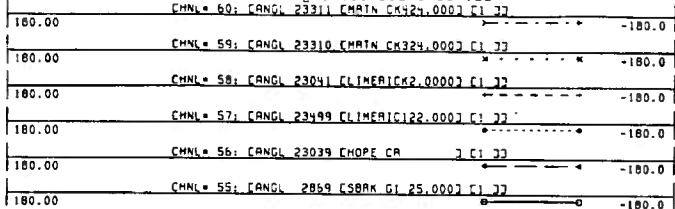
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2\RUNDSA.OUT
CHNL= 42: CANGL 8707 CATHENSST13.0007 C1 JJ



FRI, MAR 31 2000 13:35
RUN D5A PLOT 7



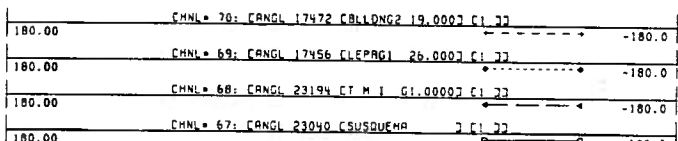
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\odynamics\DS2A\RUNDSA.OUT
CHNL= 69: CANGL 23310 CMATN CK324.0000 C1 77



FRI, MAR 31 2000 13:35
RUN DSA PLOT 10



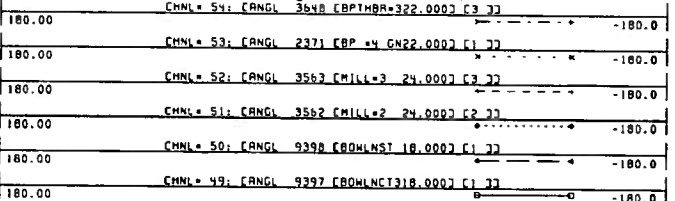
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\odynamics\DS2A\RUNDSA.OUT
CHNL= 70: CANGL 17972 CABLDNG2 19.0000 C1 77



FRI, MAR 31 2000 13:35
RUN DSA PLOT 11



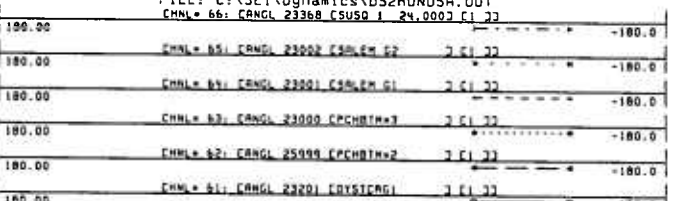
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\odynamics\DS2A\RUNDSA.OUT
CHNL= 54: CANGL 3648 CBPTHAN322.0000 C3 77



FRI, MAR 31 2000 13:35
RUN DSA PLOT 9



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\odynamics\DS2A\RUNDSA.OUT
CHNL= 66: CANGL 23368 CSUSO 1 24.0000 C1 77

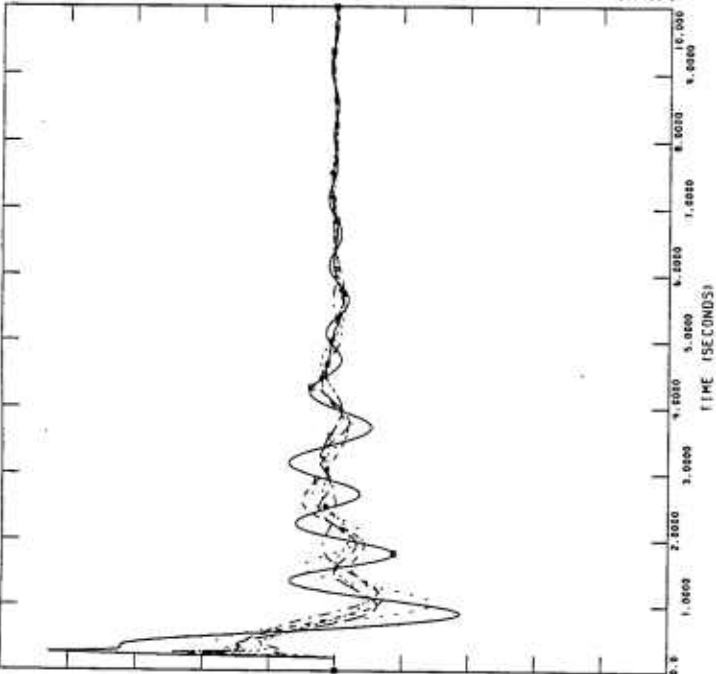


FRI, MAR 31 2000 13:35
RUN DSA PLOT 12



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2RUND5A.OUT
CHNL = 705: 60*(1)-CFREQ 23003 [ALBURN15500.0077]

60.250 CHNL = 704: 60*(1)-CFREQ 4327 [CFARARGUT345.0077] 59.750
60.250 CHNL = 703: 60*(1)-CFREQ 3105 [CLONG MTN345.0077] 59.750
60.250 CHNL = 702: 60*(1)-CFREQ 9577 [MARCY765765.0077] 59.750
60.250 CHNL = 701: 60*(1)-CFREQ 5403 [CFARAS345345.0077] 59.750
60.250 CHNL = 700: 60*(1)-CFREQ 4347 [CARMAPD 345.0077] 59.750

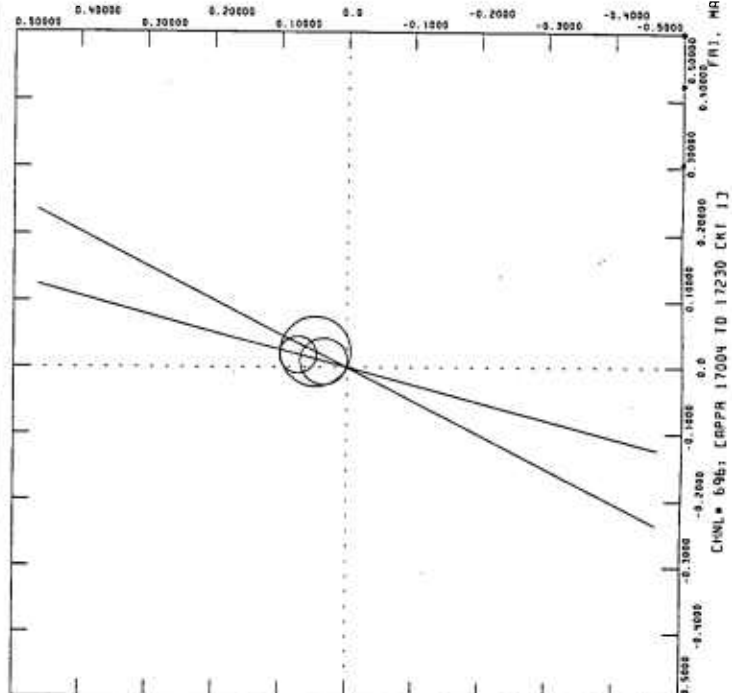


FRI, MAR 31 2000 13:35
RUN DSA PLOT 14



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2RUND5A.OUT

RELAY: DISTR
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

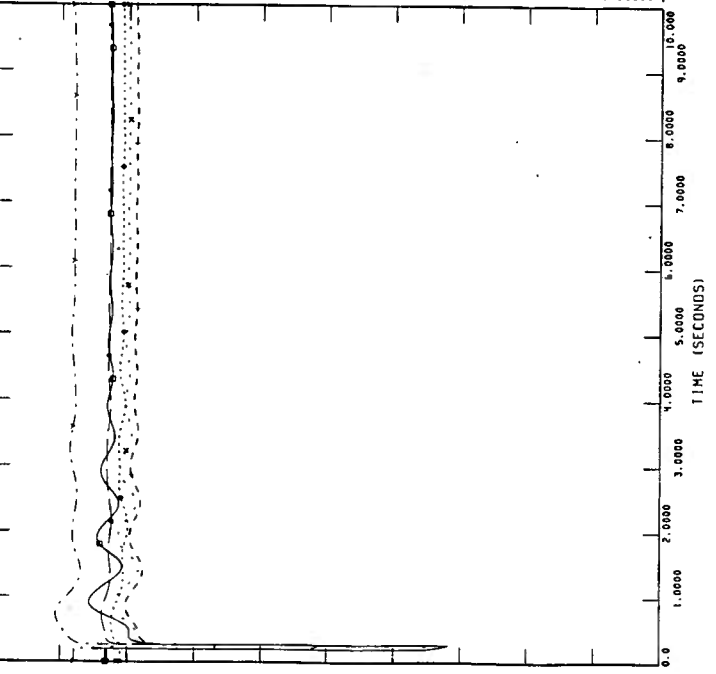


FRI, MAR 31 2000 13:35
RUN DSA PLOT 16



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2RUND5A.OUT
CHNL = 651: CVOLT 23003 [ALBURN15500.0077]

1.2000 CHNL = 508: CVOLT 4327 [CFARARGUT345.0077] 0.20000
1.2000 CHNL = 636: CVOLT 3105 [CLONG MTN345.0077] 0.20000
1.2000 CHNL = 572: CVOLT 9577 [MARCY765765.0077] 0.20000
1.2000 CHNL = 545: CVOLT 5403 [CFARAS345345.0077] 0.20000
1.2000 CHNL = 528: CVOLT 4347 [CARMAPD 345.0077] 0.20000

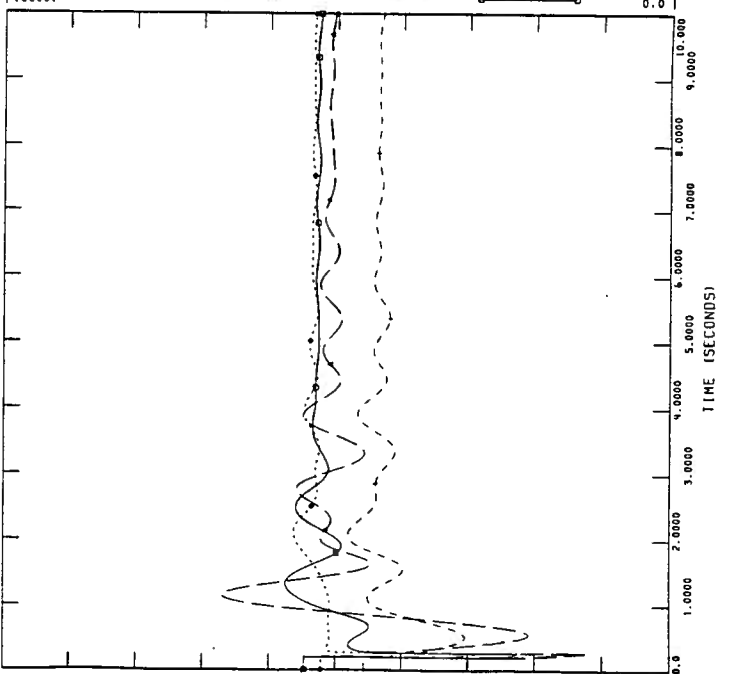


FRI, MAR 31 2000 13:35
RUN DSA PLOT 13



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS2RUND5A.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENY 1000.0
CHNL = 687: CMW UPNY TO CONED 0.0



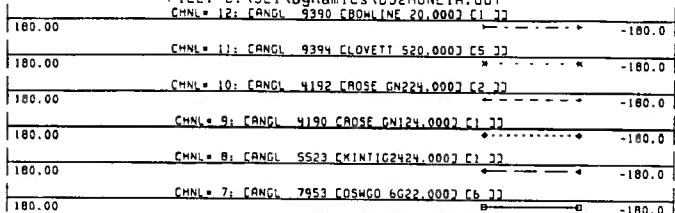
FRI, MAR 31 2000 13:35
RUN DSA PLOT 15

CONTINGENCY E1A

RECOVER FROM D1.SNP AND DS2.CNV
START OUTPUT DS2RUNE1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



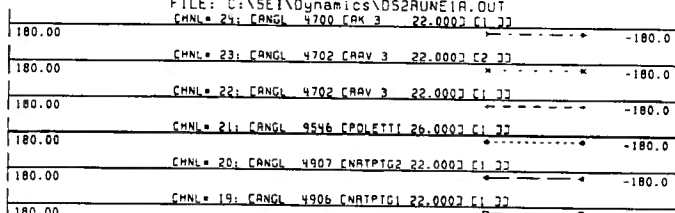
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LAONTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT
CHNL= 12: CANGI 9390 CBOUWLINE 20.0002 C1 JJ



FRI, MAR 31 2000 13:37
RUN E1A PLOT 2



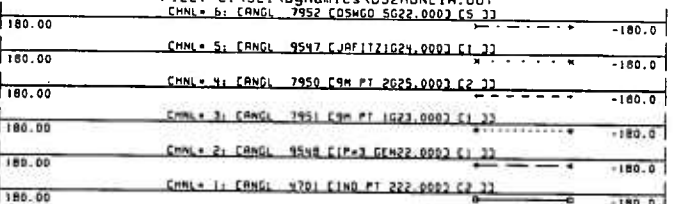
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LAONTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT
CHNL= 23: CANGI 4700 CARV 3 22.0002 C1 JJ



FRI, MAR 31 2000 13:37
RUN E1A PLOT 4



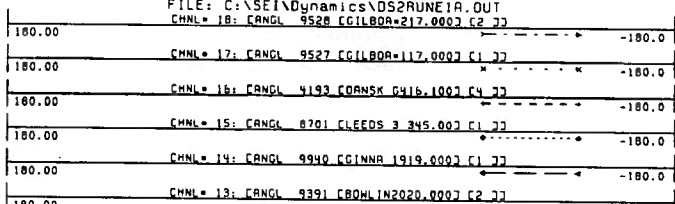
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LAONTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT
CHNL= 6: CANGI 7952 COSMCO 5622.0002 C5 JJ



FRI, MAR 31 2000 13:37
RUN E1A PLOT 1



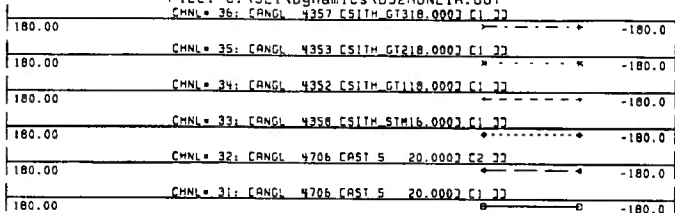
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LAONTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT
CHNL= 18: CANGI 9528 CGILBDA 217.0002 C2 JJ



FRI, MAR 31 2000 13:37
RUN E1A PLOT 3



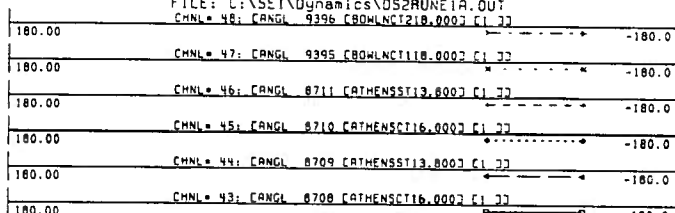
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT
CHNL= 36: CANGL 4357 CSITH GT118.0002 C1 JJ



FRI, MAR 31 2000 13:37
RUN E1A PLOT 6



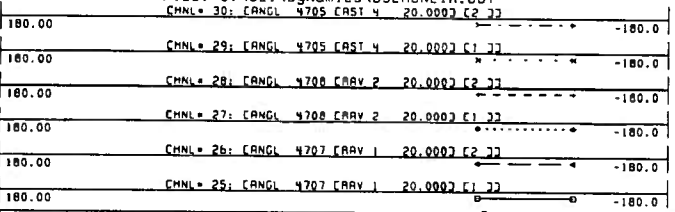
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT
CHNL= 48: CANGL 9396 CBWLNC118.0002 C1 JJ



FRI, MAR 31 2000 13:37
RUN E1A PLOT 8



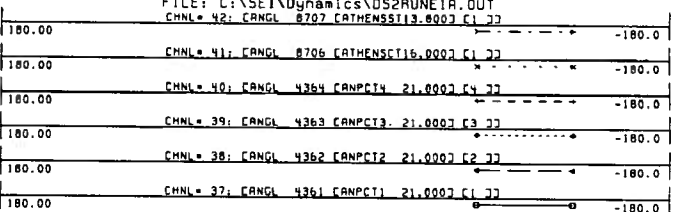
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT
CHNL= 30: CANGL 4705 CAST 4 20.0002 C2 JJ



FRI, MAR 31 2000 13:37
RUN E1A PLOT 5



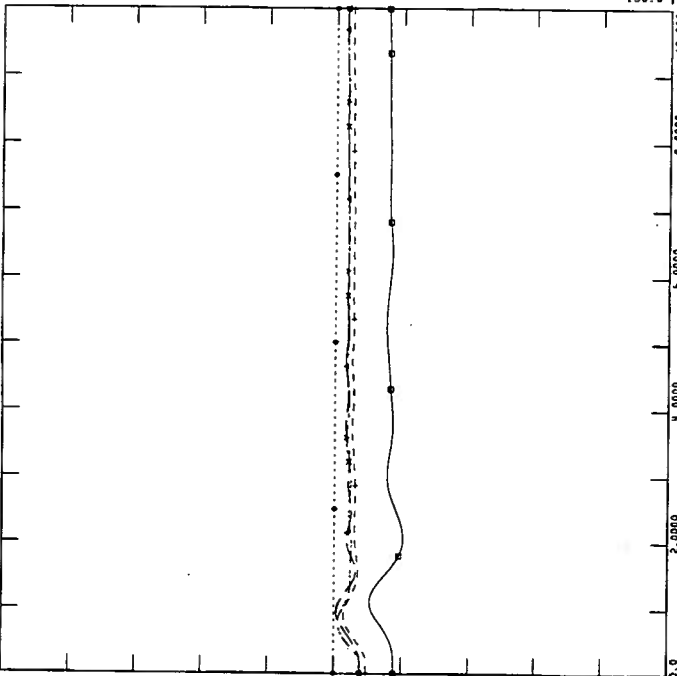
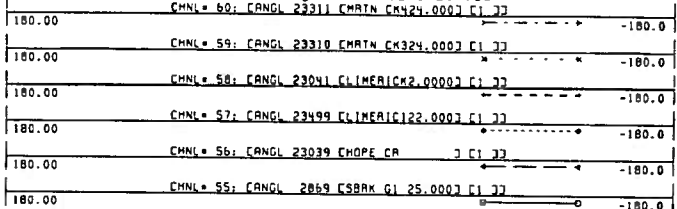
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT
CHNL= 42: CANGL 8707 CATHENSST13.8003 C1 JJ



FRI, MAR 31 2000 13:37
RUN E1A PLOT 7



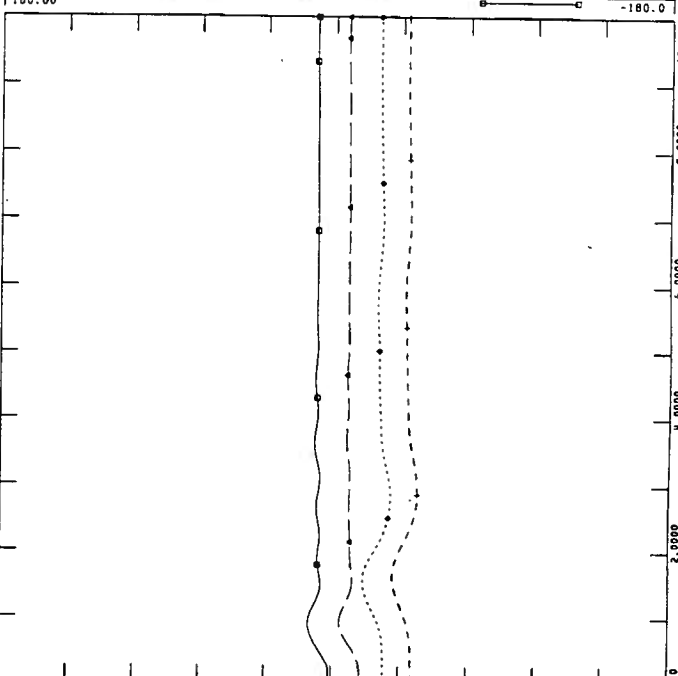
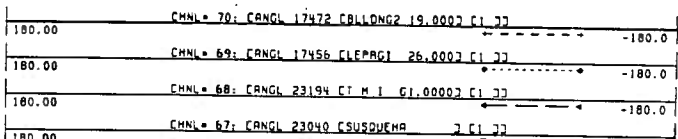
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DS2AUNE1A.OUT
CHNL = 59: CANGI 23310 CMATN CK324.0003 C1 77



FRI, MAR 31 2000 13:37
RUN E1A PLOT 10



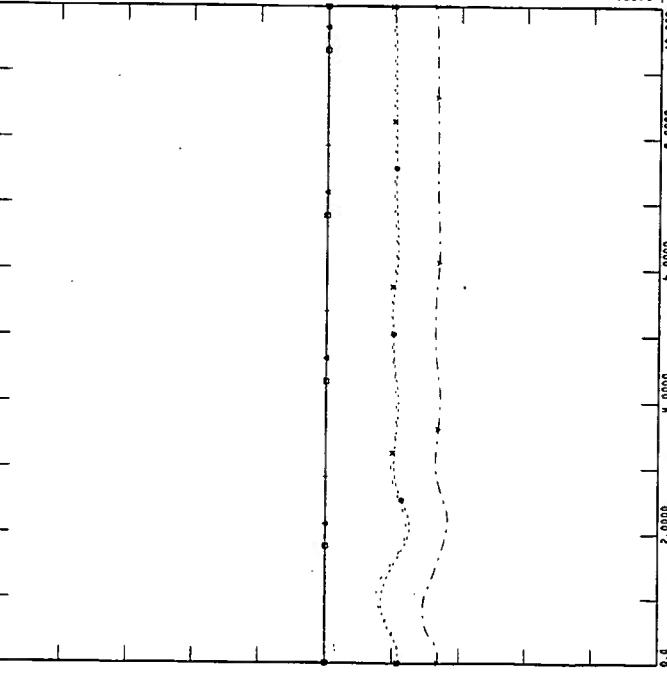
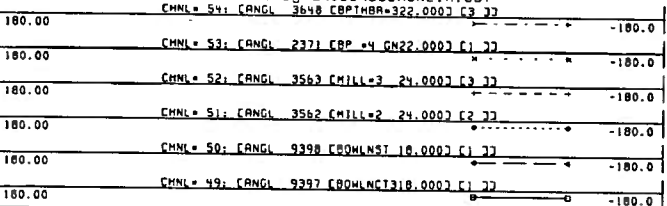
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DS2AUNE1A.OUT
CHNL = 70: CANGI 17472 CBLLONG2 19.0003 C1 77



FRI, MAR 31 2000 13:37
RUN E1A PLOT 12



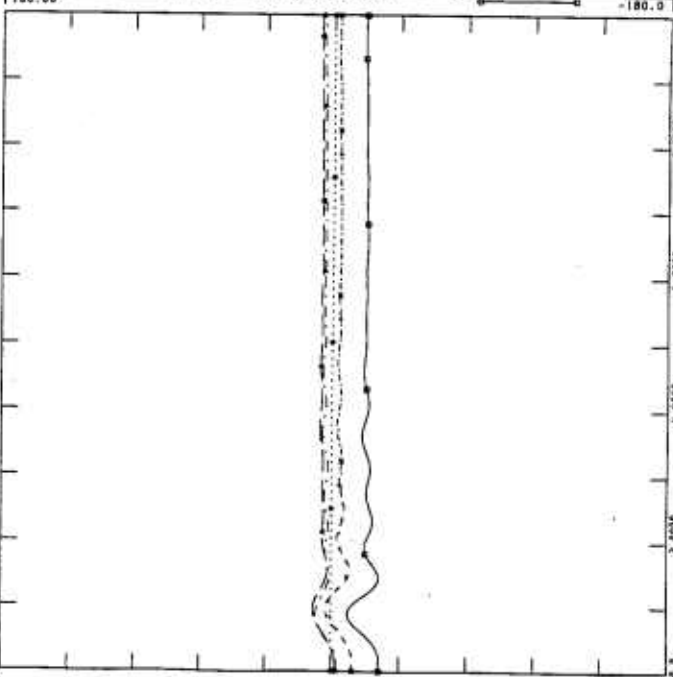
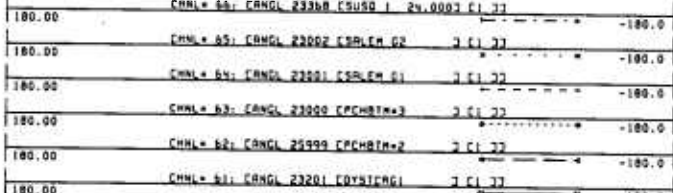
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DS2AUNE1A.OUT
CHNL = 54: CANGI 3648 CBPTIMAR 322.0003 C3 77



FRI, MAR 31 2000 13:37
RUN E1A PLOT 9



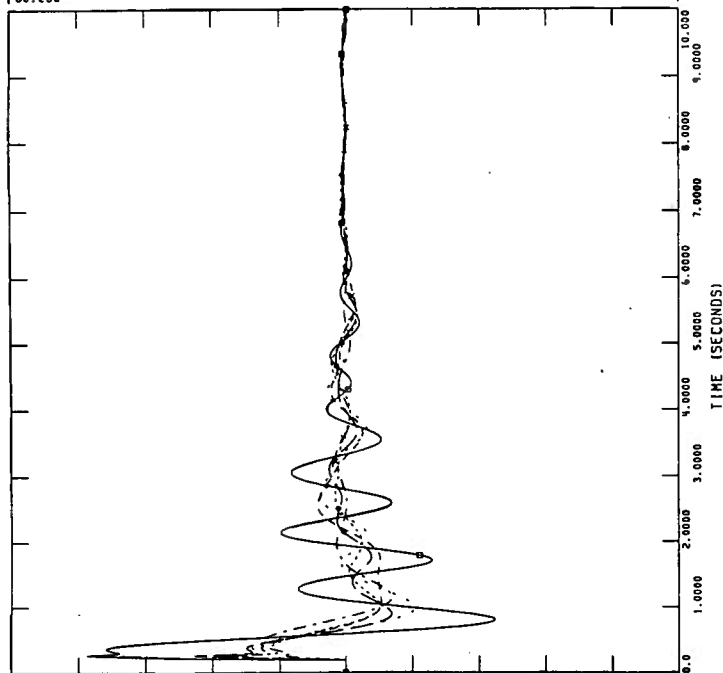
CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DS2AUNE1A.OUT
CHNL = 65: CANGI 23002 CBPLEM 02 7 C1 77



FRI, MAR 31 2000 13:37
RUN E1A PLOT 11

CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT
CHNL = 705: 60 (1-CFREQ 23003 [ALBURY15500.007])

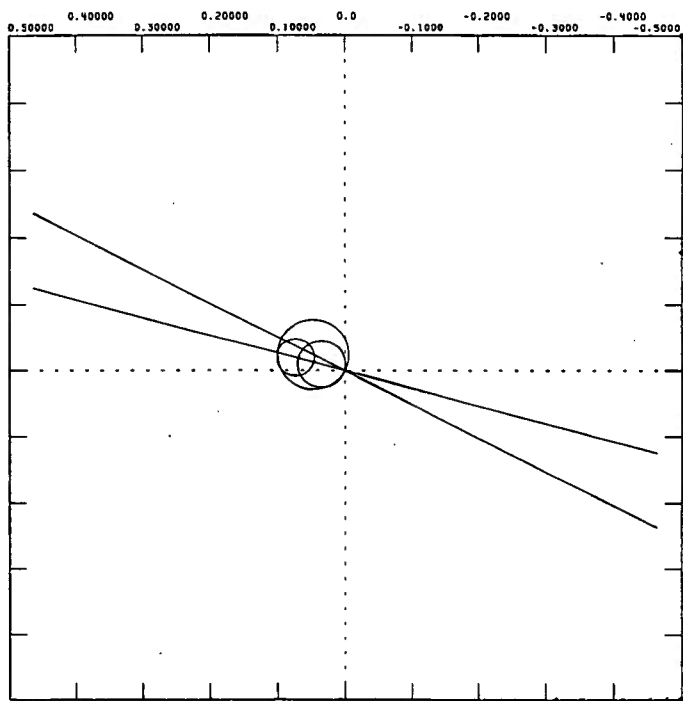
60.250 CHNL = 704: 60 (1-CFREQ 4327 [FARRAGUT345.007]) 59.750
60.250 CHNL = 703: 60 (1-CFREQ 3105 [LONG MTN345.007]) 59.750
60.250 CHNL = 702: 60 (1-CFREQ 9577 [MARCY765765.007]) 59.750
60.250 CHNL = 701: 60 (1-CFREQ 5403 [FARRAS345345.007]) 59.750
60.250 CHNL = 700: 60 (1-CFREQ 4347 [RAMAPO 345.007]) 59.750



FRI, MAR 31 2000 13:37
RUN E1A PLOT 14

CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT

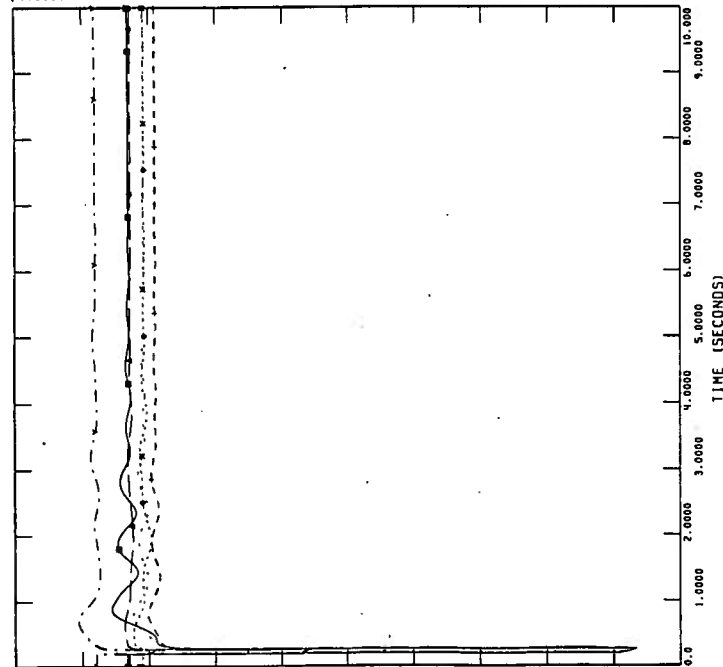
RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPX 17004 TO 17230 CKT 13



FRI, MAR 31 2000 13:37
RUN E1A PLOT 15

CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT
CHNL = 651: CVOLT 23003 [ALBURY15500.007]

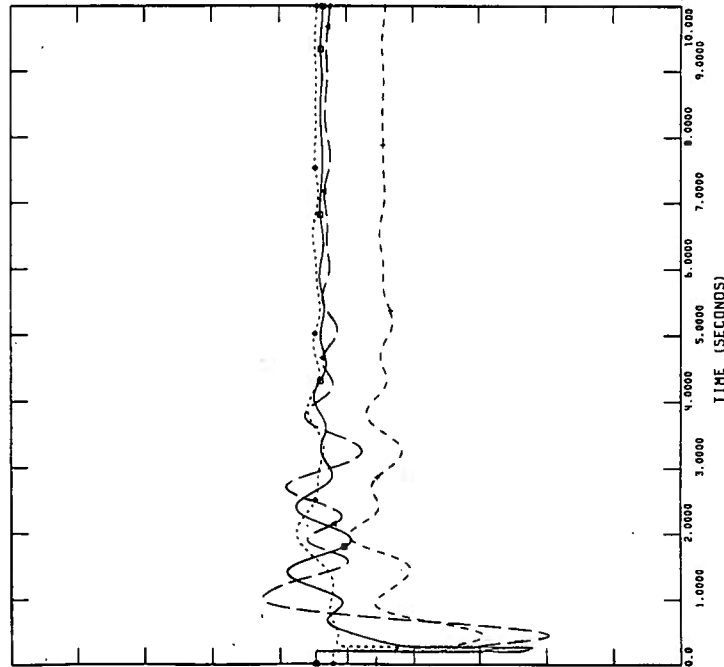
1.2000 CHNL = 508: CVOLT 4327 [FARRAGUT345.007] 0.20000
1.2000 CHNL = 636: CVOLT 3105 [LONG MTN345.007] 0.20000
1.2000 CHNL = 572: CVOLT 9577 [MARCY765765.007] 0.20000
1.2000 CHNL = 545: CVOLT 5403 [FARRAS345345.007] 0.20000
1.2000 CHNL = 528: CVOLT 4347 [RAMAPO 345.007] 0.20000



FRI, MAR 31 2000 13:37
RUN E1A PLOT 16

CASE 052: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DS2RUNE1A.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENT 1000.0
CHNL = 687: CMW UPNY TO CONEQ 0.0



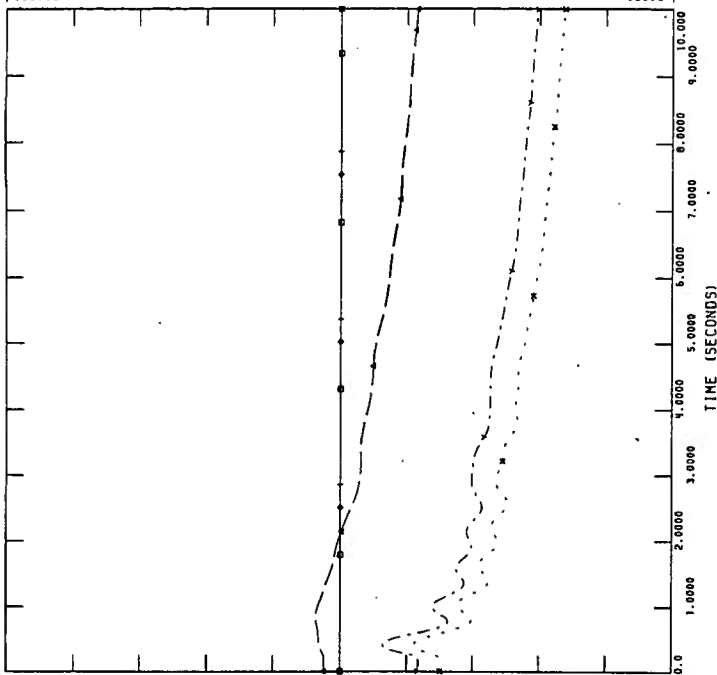
FRI, MAR 31 2000 13:37
RUN E1A PLOT 17

CONTINGENCY E2A

```
RECOVER FROM D1.SNP AND DS2.CNV
START OUTPUT DS2RUNE2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0  -2e+009 MVA    / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DISCONNECT BUS 4347                                / DISCONNECT RAMAPO SUBSTATION
DROP GENERATOR 1 AT BUS 4352                        / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4353                        / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4357                        / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4358                        / TRIP SITHE ST
DROP GENERATOR 1 AT BUS 4361                        / TRIP ANP CT
DROP GENERATOR 2 AT BUS 4362                        / TRIP ANP CT
DROP GENERATOR 3 AT BUS 4363                        / TRIP ANP CT
DROP GENERATOR 4 AT BUS 4364                        / TRIP ANP ST
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3
```

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS2AUNE2A.OUT
CHNL = 12: CANGL 9390 CPOLETT 20.0007 C1 JJ

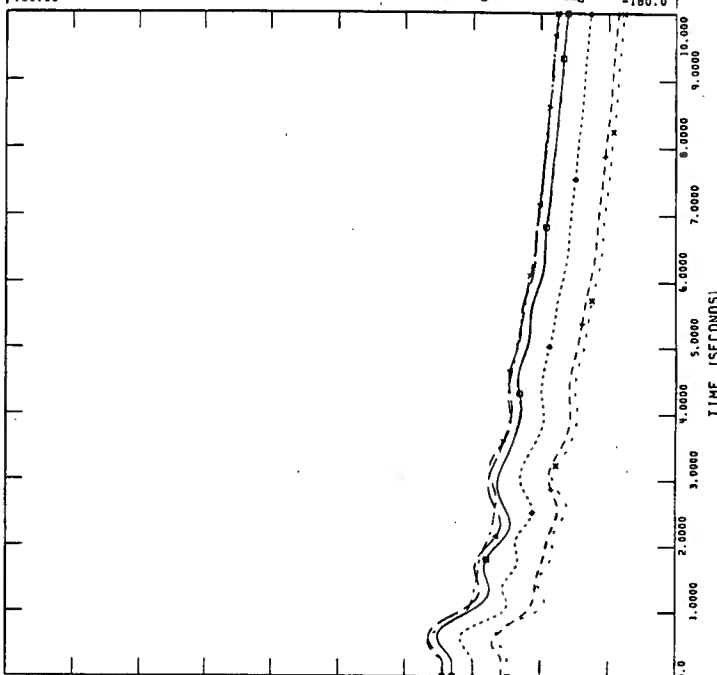
CHNL = 11: CANGL 9394 CLOVETT 520.0007 C5 JJ
CHNL = 10: CANGL 4192 CROSE GW224.0007 C2 JJ
CHNL = 9: CANGL 4190 CROSE GN124.0007 C1 JJ
CHNL = 8: CANGL 5523 CKINTIG24.0007 C1 JJ
CHNL = 7: CANGL 7953 CASHMO 622.0007 C6 JJ



FRI, MAR 31 2000 13:37
RUN E2A PLOT 2

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS2AUNE2A.OUT
CHNL = 24: CANGL 4700 CRY 3 22.0007 C1 JJ

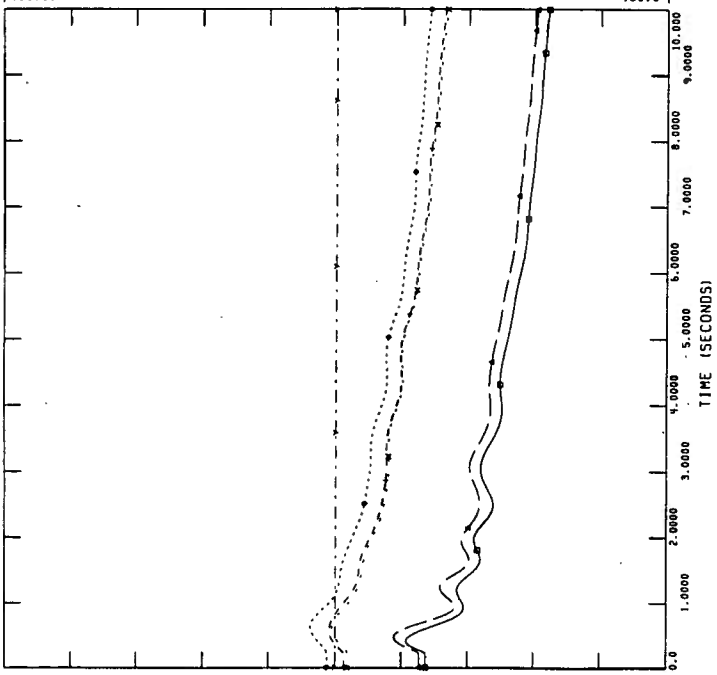
CHNL = 23: CANGL 4702 CRY 3 22.0007 C2 JJ
CHNL = 22: CANGL 4702 CRY 3 22.0007 C1 JJ
CHNL = 21: CANGL 9546 CPOLETT 26.0007 C1 JJ
CHNL = 20: CANGL 4907 CWRPTG2 22.0007 C1 JJ
CHNL = 19: CANGL 4906 CWRPTG1 22.0007 C1 JJ



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RUN E2A PLOT 4

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS2AUNE2A.OUT
CHNL = 6: CANGL 7952 CASHMO 5622.0007 C5 JJ

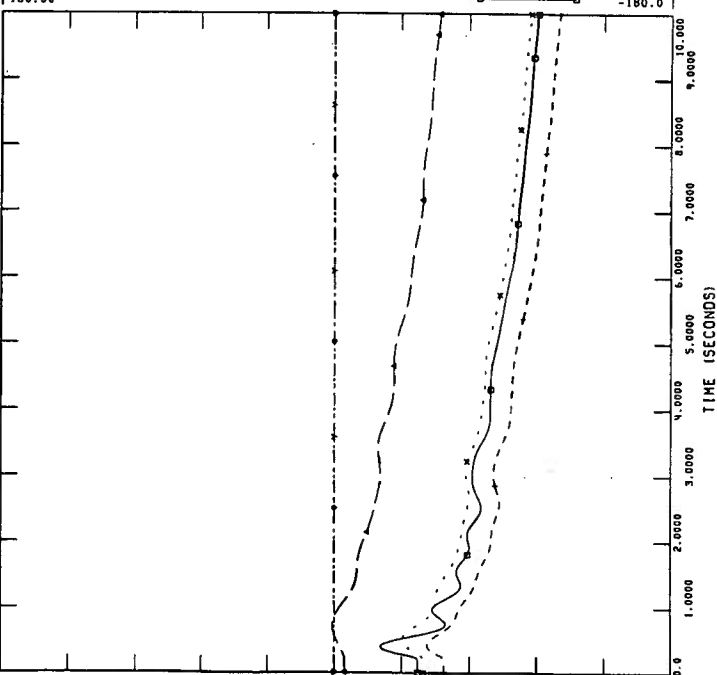
CHNL = 5: CANGL 9547 CJAF1171624.0007 C1 JJ
CHNL = 4: CANGL 7950 C9M PT 2625.0007 C2 JJ
CHNL = 3: CANGL 7951 C9M PT 1623.0007 C1 JJ
CHNL = 2: CANGL 9548 CIP-3 GEN22.0007 C1 JJ
CHNL = 1: CANGL 4701 CIND PT 222.0007 C2 JJ



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RUN E2A PLOT 1

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS2AUNE2A.OUT
CHNL = 18: CANGL 9528 CGILBOA217.0007 C2 JJ

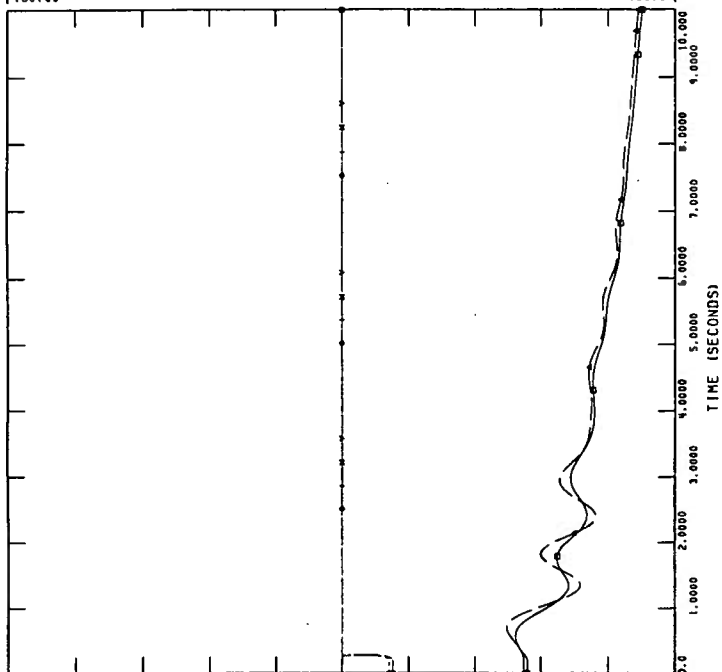
CHNL = 17: CANGL 9527 CGILBOA117.0007 C1 JJ
CHNL = 16: CANGL 4193 CPANSK 6416.1007 C4 JJ
CHNL = 15: CANGL 8701 CLEEDS 3 345.007 C1 JJ
CHNL = 14: CANGL 9940 CGINNA 1919.0007 C1 JJ
CHNL = 13: CANGL 9391 CROHLIN2020.0007 C2 JJ



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RUN E2A PLOT 3

CASE DS2: 2001 SUMMER PEAK
 ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\dynamics\DS2RUNE2A.OUT
 CHNL = 35; CANGL 4353 CSITH GT218.0002 C1 JJ

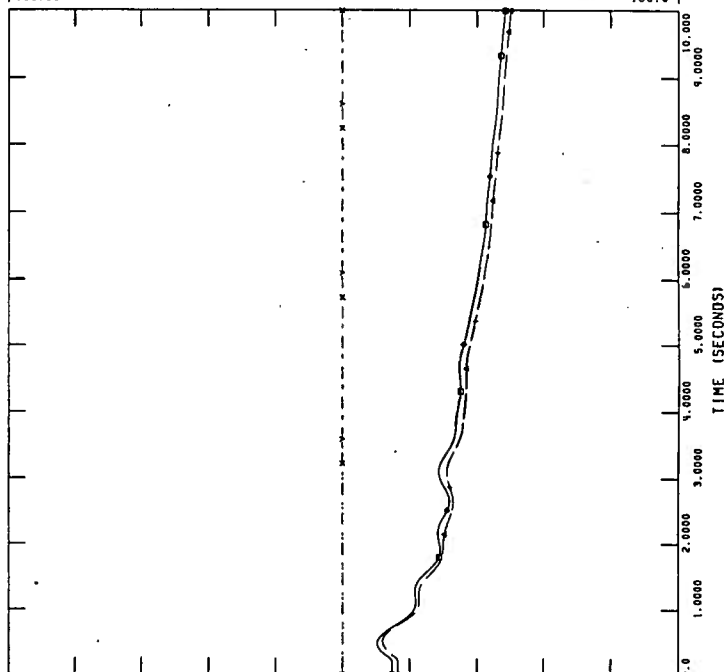
CHNL = 35; CANGL 4353 CSITH GT218.0002 C1 JJ
 CHNL = 34; CANGL 4352 CSITH GT118.0002 C1 JJ
 CHNL = 33; CANGL 4358 CSITH ST118.0002 C1 JJ
 CHNL = 32; CANGL 4706 CAST 5 20.0002 C2 JJ
 CHNL = 31; CANGL 4706 CAST 5 20.0002 C1 JJ



FRI, MAR 31 2000 13:37
 RUN E2A PLOT 6

CASE DS2: 2001 SUMMER PEAK
 ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\dynamics\DS2RUNE2A.OUT
 CHNL = 48; CANGL 9395 CBOWLNCT118.0002 C1 JJ

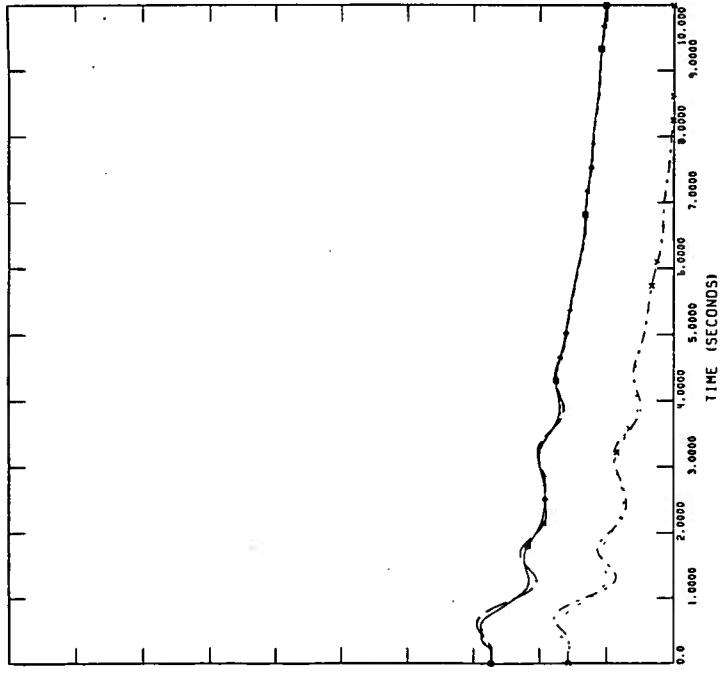
CHNL = 47; CANGL 9395 CBOWLNCT118.0002 C1 JJ
 CHNL = 46; CANGL 8711 CATHEMSST13.8002 C1 JJ
 CHNL = 45; CANGL 8710 CATHEMSCT16.0002 C1 JJ
 CHNL = 44; CANGL 8709 CATHEMSST13.8002 C1 JJ
 CHNL = 43; CANGL 8709 CATHEMSCT16.0002 C1 JJ



FRI, MAR 31 2000 13:37
 RUN E2A PLOT 8

CASE DS2: 2001 SUMMER PEAK
 ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\dynamics\DS2RUNE2A.OUT
 CHNL = 30; CANGL 4705 CAST 4 20.0002 C2 JJ

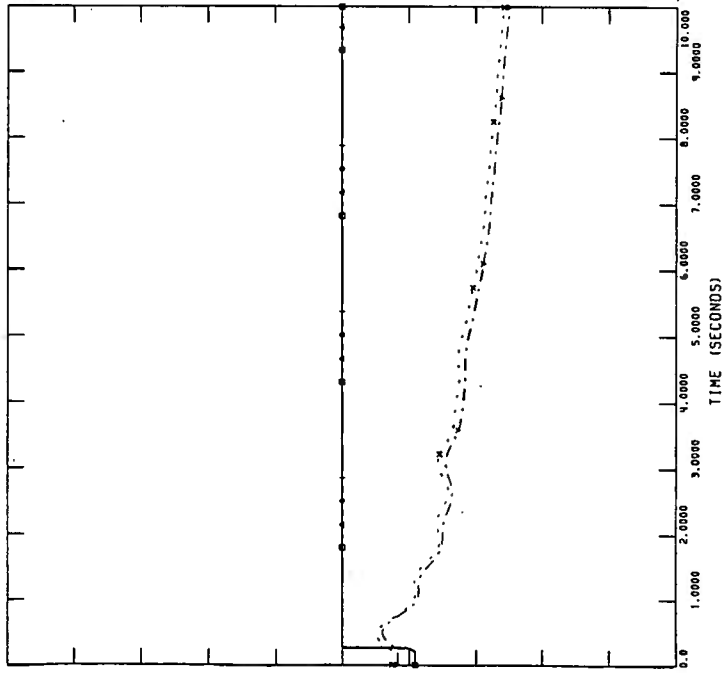
CHNL = 29; CANGL 4705 CAST 4 20.0002 C1 JJ
 CHNL = 28; CANGL 4708 CARY 2 20.0002 C2 JJ
 CHNL = 27; CANGL 4708 CARY 2 20.0002 C1 JJ
 CHNL = 26; CANGL 4707 CARY 1 20.0002 C2 JJ
 CHNL = 25; CANGL 4707 CARY 1 20.0002 C1 JJ



FRI, MAR 31 2000 13:37
 RUN E2A PLOT 5

CASE DS2: 2001 SUMMER PEAK
 ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\dynamics\DS2RUNE2A.OUT
 CHNL = 42; CANGL 8707 CATHEMSST13.8002 C1 JJ

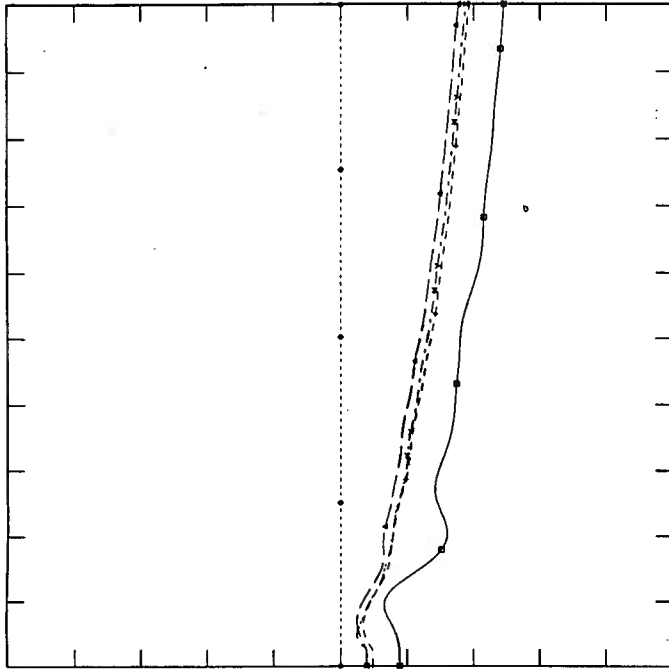
CHNL = 41; CANGL 8706 CATHEMSCT16.0002 C1 JJ
 CHNL = 40; CANGL 4363 CANPCT4 21.0002 C4 JJ
 CHNL = 39; CANGL 4363 CANPCT3 21.0002 C3 JJ
 CHNL = 38; CANGL 4362 CANPCT2 21.0002 C2 JJ
 CHNL = 37; CANGL 4361 CANPCT1 21.0002 C1 JJ



FRI, MAR 31 2000 13:37
 RUN E2A PLOT 7

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS2RUNE2A.OUT
CHNL = 60: CANGI 23311 CHATN CK424.0003 C1 JJ

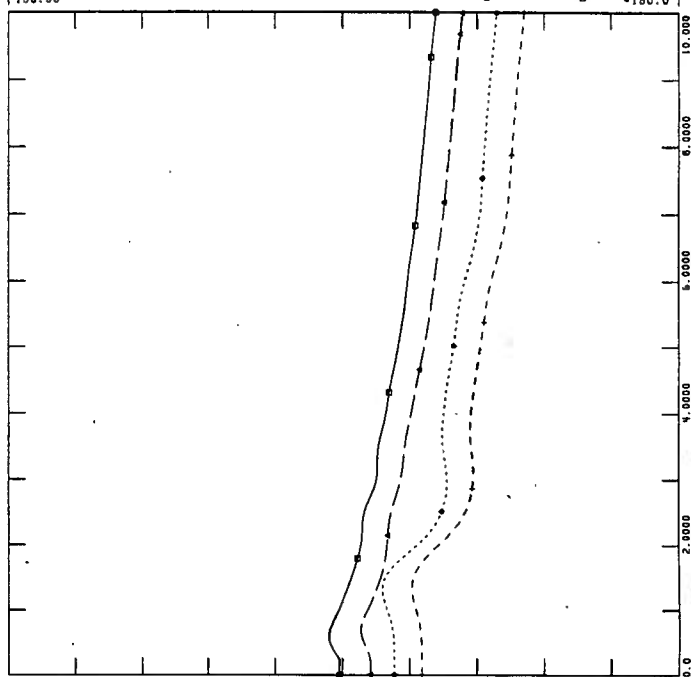
CHNL = 59: CANGI 23310 CHATN CK324.0003 C1 JJ
CHNL = 58: CANGI 23091 CLINERICK2.00003 C1 JJ
CHNL = 57: CANGI 23499 CLINERICK122.0003 C1 JJ
CHNL = 56: CANGI 23039 CHOPPE CA J C1 JJ
CHNL = 55: CANGI 2869 CSARK G1 25.0003 C1 JJ



FRI, MAR 31 2000 13:37
RUN E2A PLOT 10

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS2RUNE2A.OUT

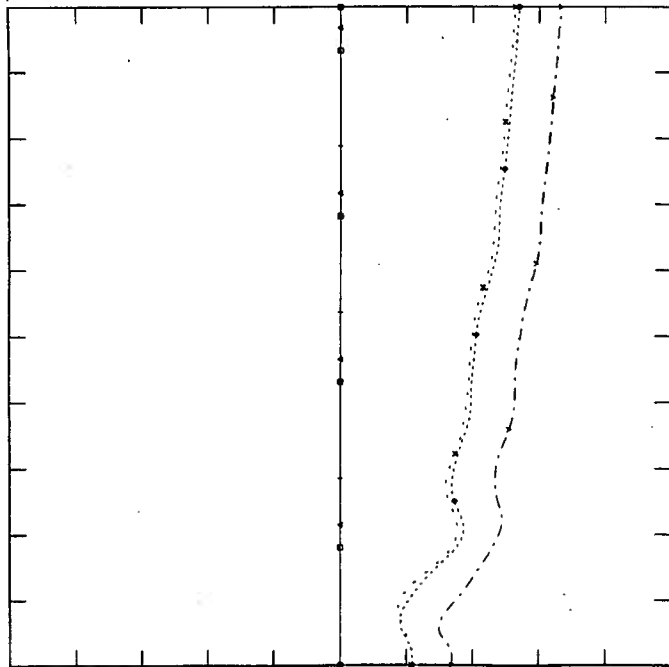
CHNL = 70: CANGI 17472 CALLONG2 19.0003 C1 JJ
CHNL = 69: CANGI 17456 CLEPAGI 26.0003 C1 JJ
CHNL = 68: CANGI 23194 CT M J G1.00003 C1 JJ
CHNL = 67: CANGI 23040 CSUSQUEHA J C1 JJ



FRI, MAR 31 2000 13:37
RUN E2A PLOT 12

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS2RUNE2A.OUT
CHNL = 54: CANGI 3648 CBPTMRA=322.0003 C3 JJ

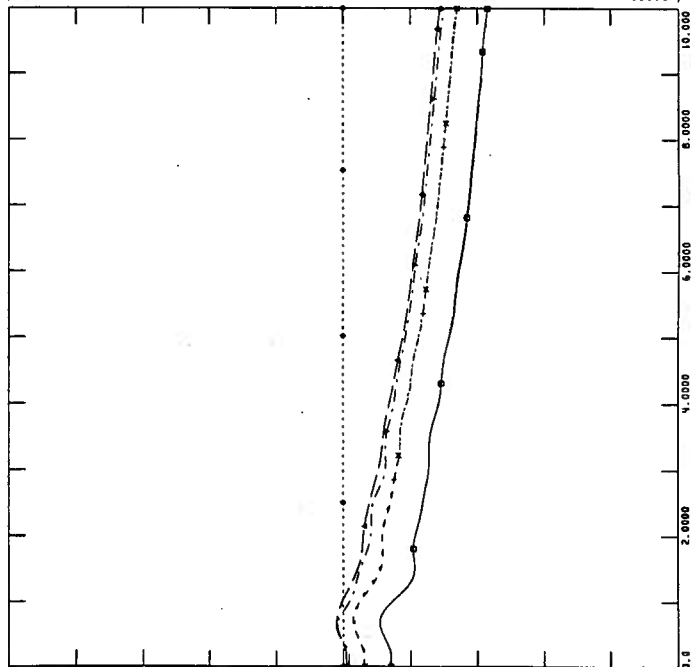
CHNL = 53: CANGI 2371 CBF =4 CK22.0003 C1 JJ
CHNL = 52: CANGI 3563 CHILL=3 24.0003 C3 JJ
CHNL = 51: CANGI 3562 CHILL=2 24.0003 C2 JJ
CHNL = 50: CANGI 9398 CBOHLMST 18.0003 C1 JJ
CHNL = 49: CANGI 9397 CBOHLMCT318.0003 C1 JJ



FRI, MAR 31 2000 13:37
RUN E2A PLOT 9

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS2RUNE2A.OUT
CHNL = 66: CANGI 23368 CSUSO 1 24.0003 C1 JJ

CHNL = 65: CANGI 23002 CSALEM G2 J C1 JJ
CHNL = 64: CANGI 23001 CSALEM G1 J C1 JJ
CHNL = 63: CANGI 23000 CPCHATH=3 J C1 JJ
CHNL = 62: CANGI 25999 CPCHATH=2 J C1 JJ
CHNL = 61: CANGI 23201 COYSTCAGI J C1 JJ

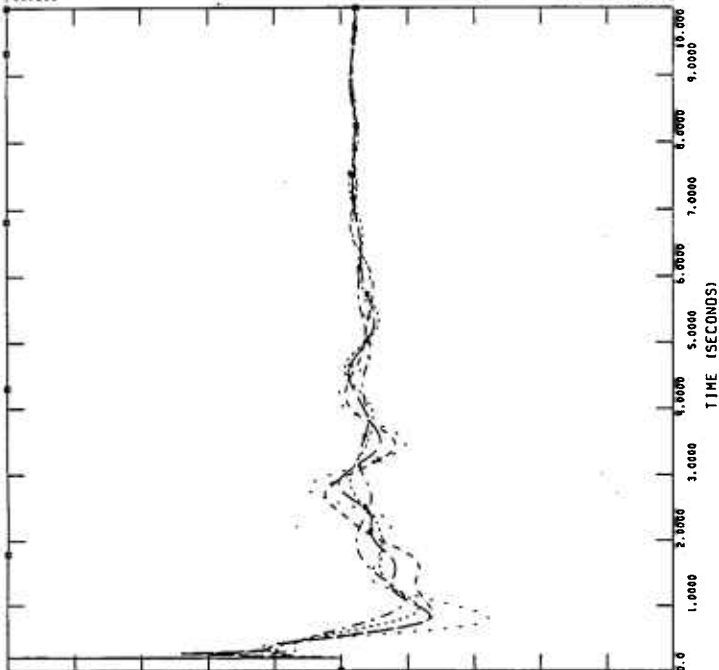


FRI, MAR 31 2000 13:37
RUN E2A PLOT 11

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS2RUNE2A.OUT
CHNL = 705: 60=11-CPREQ 23003 CALBURT(5500.0033)

60.250	CHNL = 704: 60=11-CPREQ 4327 CFARACUT(345.0033)	59.750
60.250	CHNL = 703: 60=11-CPREQ 3105 CLONG MTN345.0033	59.750
60.250	CHNL = 702: 60=11-CPREQ 9577 CHARC(765765.0033)	59.750
60.250	CHNL = 701: 60=11-CPREQ 5403 CFARACUT(345.0033)	59.750
60.250	CHNL = 700: 60=11-CPREQ 4347 CFARAPO 345.0033	59.750

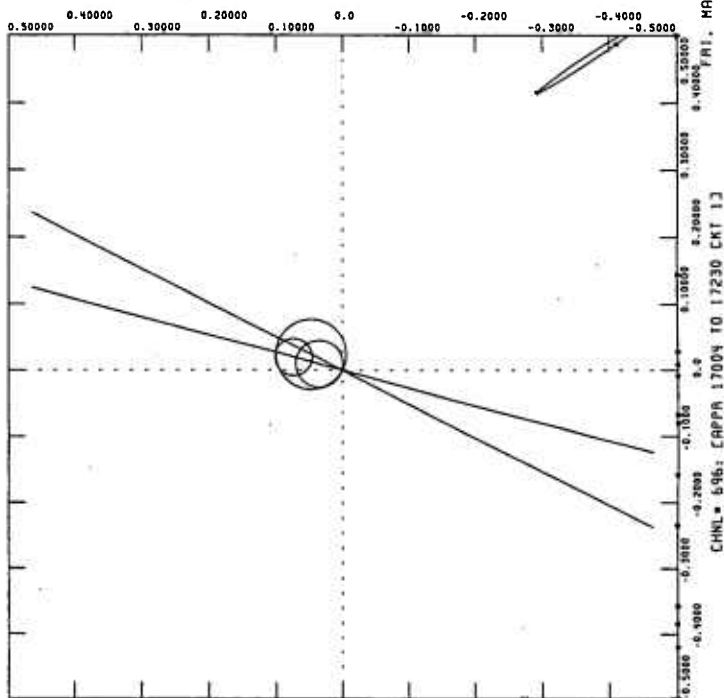


FRI, MAR 31 2000 13:37
RUN E2A PLOT 14

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS2RUNE2A.OUT

RELAY: DISTR
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

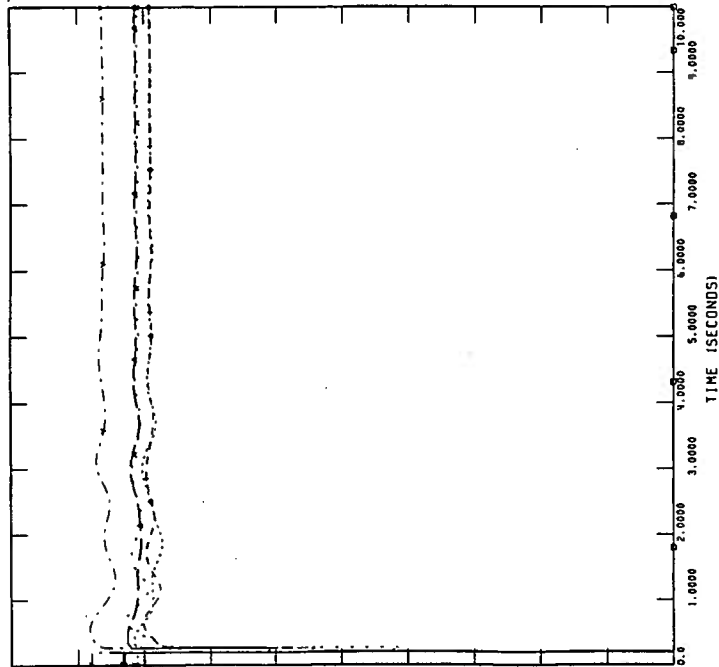


FRI, MAR 31 2000 13:37
RUN E2A PLOT 15

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS2RUNE2A.OUT
CHNL = 651: CVOLT 23003 CALBURT(5500.0033)

1.2000	CHNL = 508: CVOLT 4327 CFARACUT(345.0033)	0.20000
1.2000	CHNL = 636: CVOLT 3105 CLONG MTN345.0033	0.20000
1.2000	CHNL = 572: CVOLT 9577 CHARC(765765.0033)	0.20000
1.2000	CHNL = 545: CVOLT 5403 CFARACUT(345.0033)	0.20000
1.2000	CHNL = 528: CVOLT 4347 CFARAPO 345.0033	0.20000

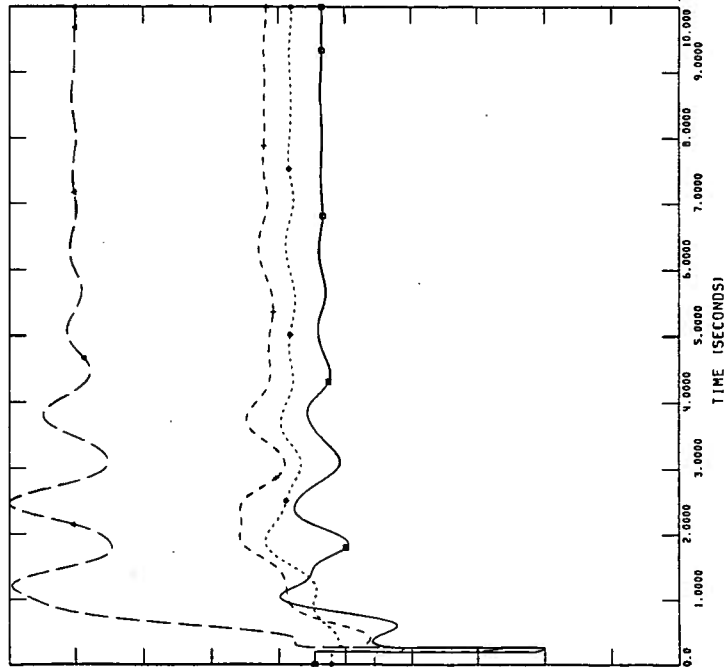


FRI, MAR 31 2000 13:37
RUN E2A PLOT 16

CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS2RUNE2A.OUT

10000.	CHNL = 690: CMW TOTAL EAST	0.0
5000.0	CHNL = 689: CMW CENTRAL EAST	0.0
6000.0	CHNL = 688: CMW UPNY TO SENY	1000.0
10000.	CHNL = 687: CMW UPNY TO CONED	0.0



FRI, MAR 31 2000 13:37
RUN E2A PLOT 17

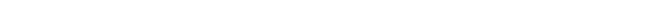
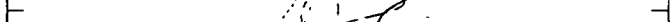
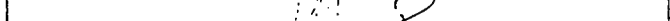
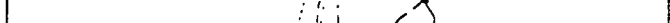
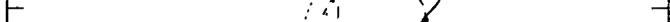
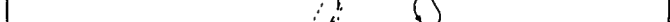
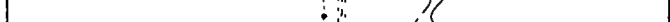
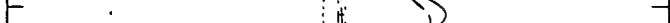
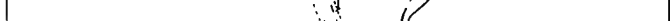
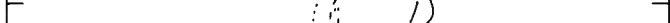
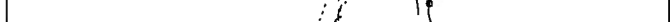
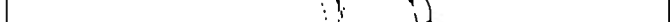
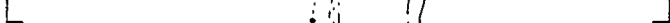
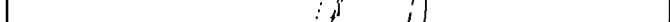
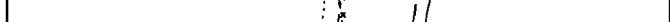
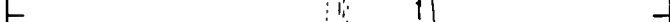
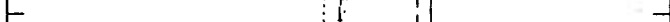
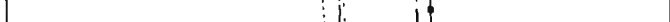
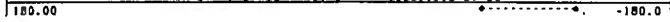
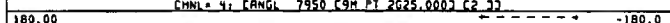
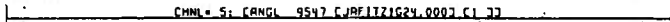
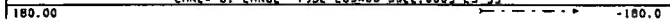
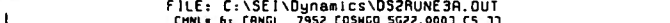
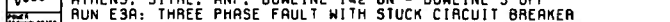
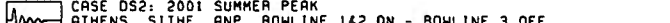
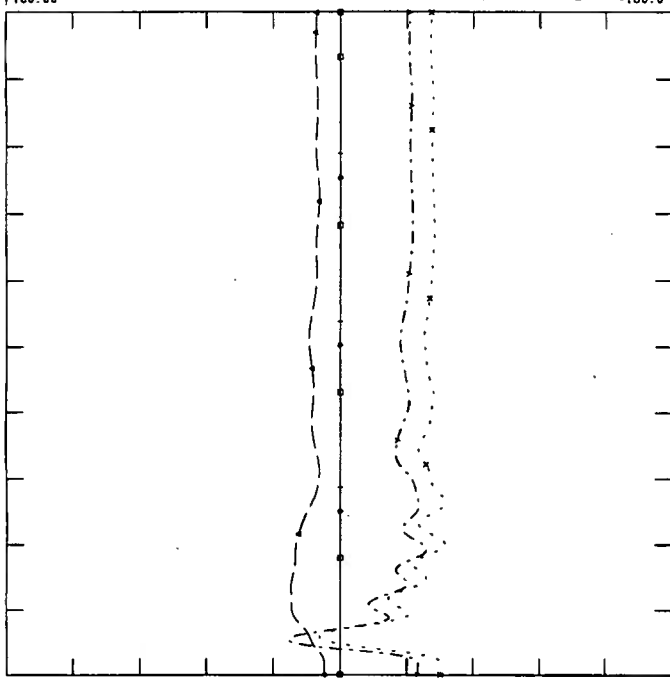
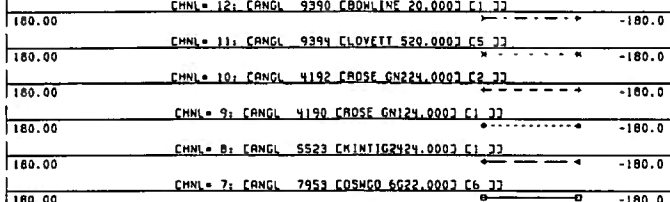
CONTINGENCY E3A

RECOVER FROM D1.SNP AND DS2.CNV
START OUTPUT DS2RUNE3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
RUN FOR 5.75 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4360 CKT 1 / TRIP RAMAPO-ANP CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS2RUNE3A.OUT
CHNL= 12: CANGL 9390 CRODLINE 20.000 C1 JJ

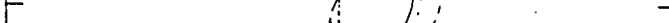
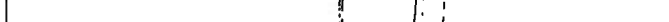
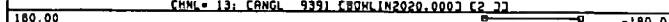
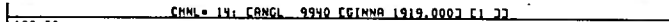
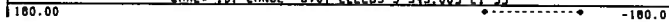
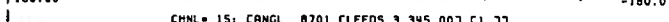
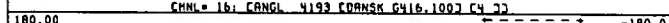
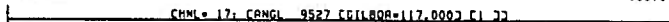
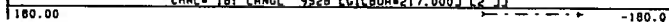
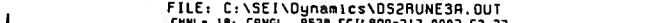
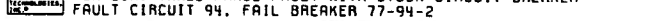
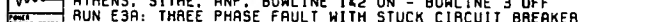
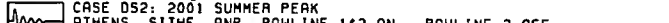
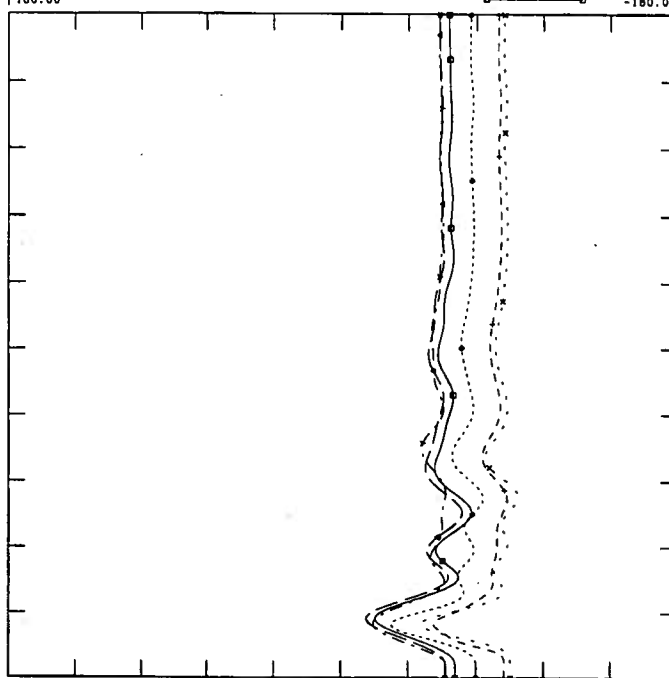
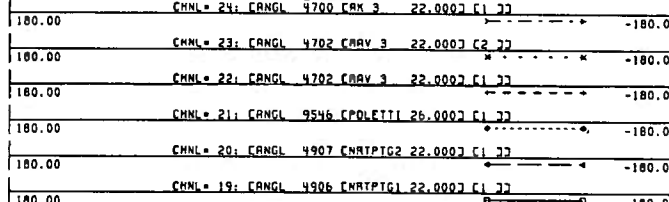


FRI, MAR 31 2000 13:38
RUN E3A PLOT 2



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

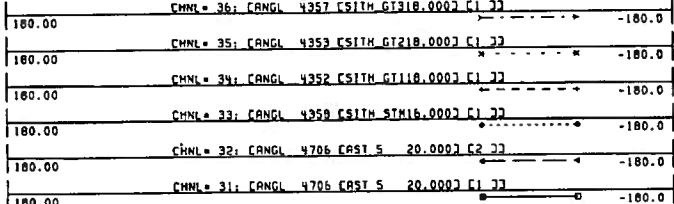
FILE: C:\SEI\Dynamic\DS2RUNE3A.OUT
CHNL= 24: CANGL 4700 CARV 3 22.000 C1 JJ





CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS2RUNE3A.OUT
CHNL = 36; CANGL 4357 CSITH GT18.0007 C1 JJ

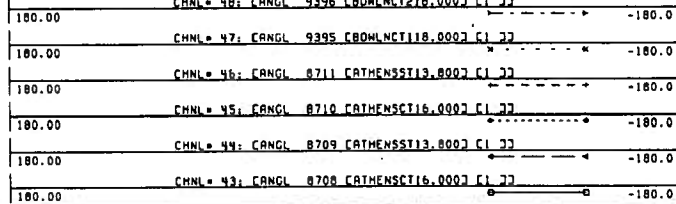


FRI, MAR 31 2000 13:38
RUN E3A PLOT 6



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS2RUNE3A.OUT
CHNL = 48; CANGL 9398 CBOWLNCT18.0007 C1 JJ

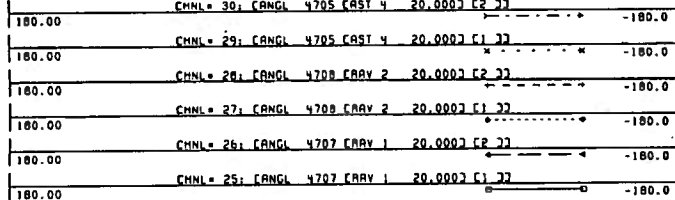


FRI, MAR 31 2000 13:38
RUN E3A PLOT 8



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS2RUNE3A.OUT
CHNL = 30; CANGL 4705 CAST 4 20.0007 C2 JJ

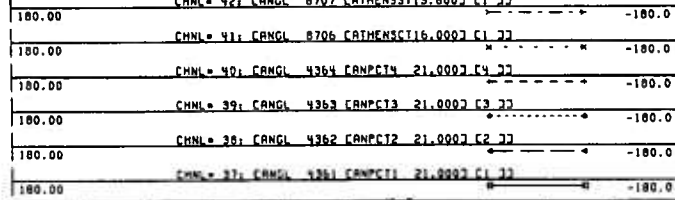


FRI, MAR 31 2000 13:38
RUN E3A PLOT 5



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS2RUNE3A.OUT
CHNL = 42; CANGL 8707 CATHENSST13.0007 C1 JJ

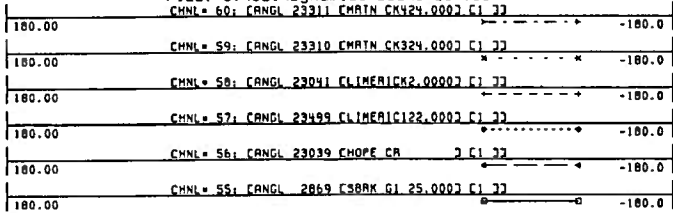


FRI, MAR 31 2000 13:38
RUN E3A PLOT 7



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamics\DS2RUNE3A.OUT
CHNL = 60; CANGL 23311 CHATN CK324.0002 C1 JJ

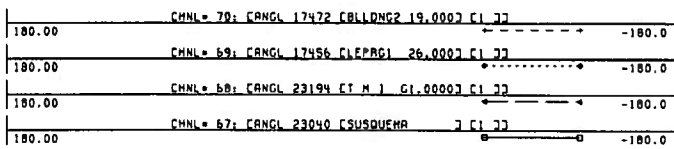


FRI, MAR 31 2000 13:38
RUN E3A PLOT 10



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamics\DS2RUNE3A.OUT

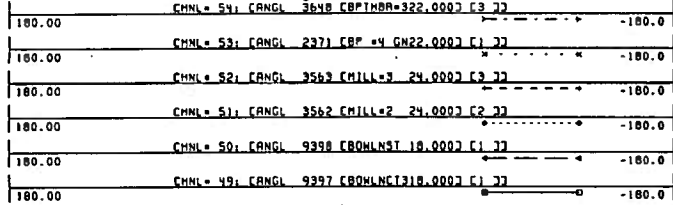


FRI, MAR 31 2000 13:38
RUN E3A PLOT 12



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamics\DS2RUNE3A.OUT
CHNL = 54; CANGL 3648 CBPTHBA322.0002 C3 JJ

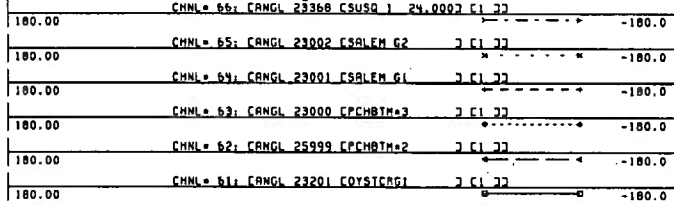


FRI, MAR 31 2000 13:38
RUN E3A PLOT 9



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamics\DS2RUNE3A.OUT
CHNL = 66; CANGL 23368 CSUSA 1 24.0002 C1 JJ



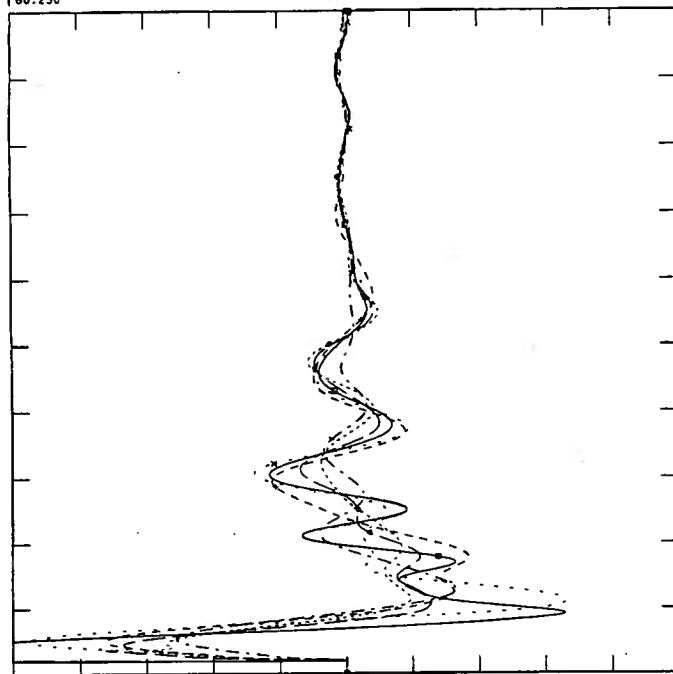
FRI, MAR 31 2000 13:38
RUN E3A PLOT 11



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamics\DS2AUNE3A.OUT
CHNL = 705: 60=11-CFREQ 23003 CALBUT115500.0022

60.250	CHNL = 704: 60=11-CFREQ 4327 CFARAGUT345.0022	59.750
60.250	CHNL = 703: 60=11-CFREQ 3105 CLONG MTN345.0022	59.750
60.250	CHNL = 702: 60=11-CFREQ 9577 CMARCY765765.0022	59.750
60.250	CHNL = 701: 60=11-CFREQ 5403 CFARAS345345.0022	59.750
60.250	CHNL = 700: 60=11-CFREQ 4347 CFARAPD 345.0022	59.750



FRI, MAR 31 2000 13:38
RUN E3A PLOT 14

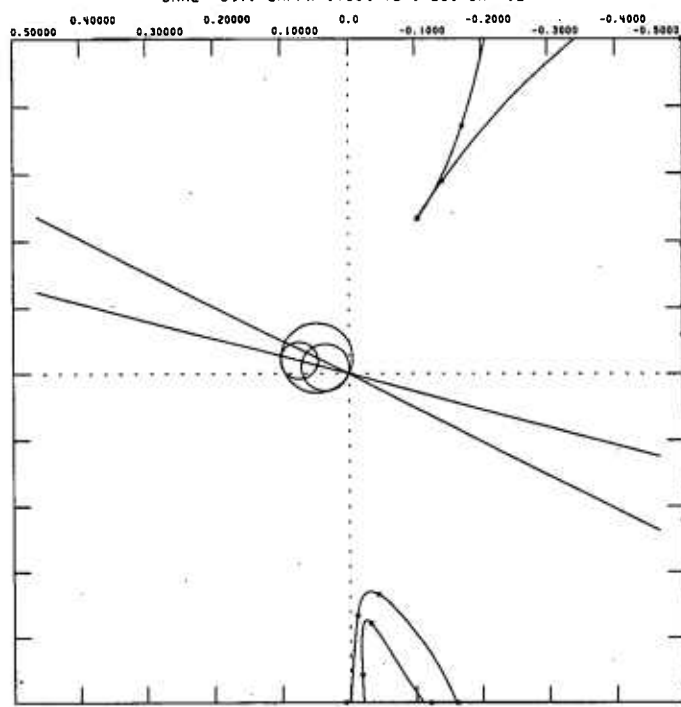


CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamics\DS2AUNE3A.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13



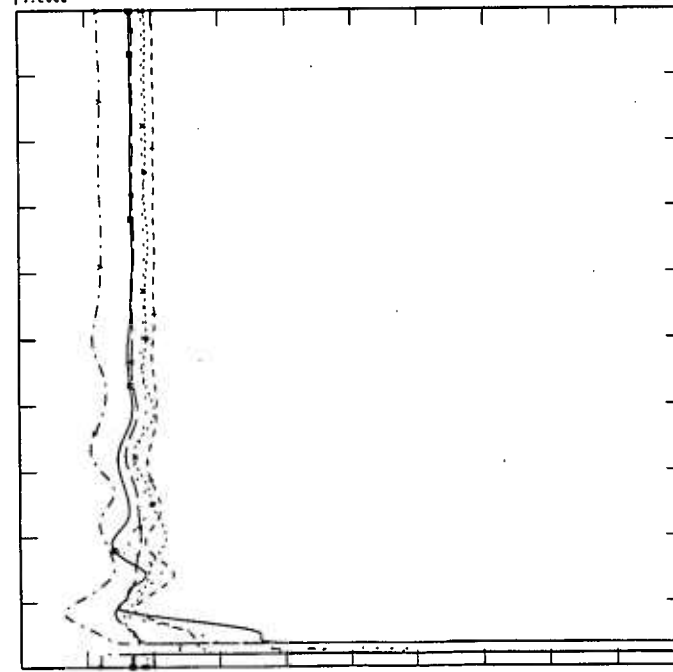
FRI, MAR 31 2000 13:38
RUN E3A PLOT 15



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamics\DS2AUNE3A.OUT
CHNL = 651: CVOLT 23003 CALBUT115500.0022

1.2000	CHNL = 500: CVOLT 4327 CFARAGUT345.0022	0.20000
1.2000	CHNL = 636: CVOLT 3105 CLONG MTN345.0022	0.20000
1.2000	CHNL = 572: CVOLT 9577 CMARCY765765.0022	0.20000
1.2000	CHNL = 545: CVOLT 5403 CFARAS345345.0022	0.20000
1.2000	CHNL = 528: CVOLT 4347 CFARAPD 345.0022	0.20000

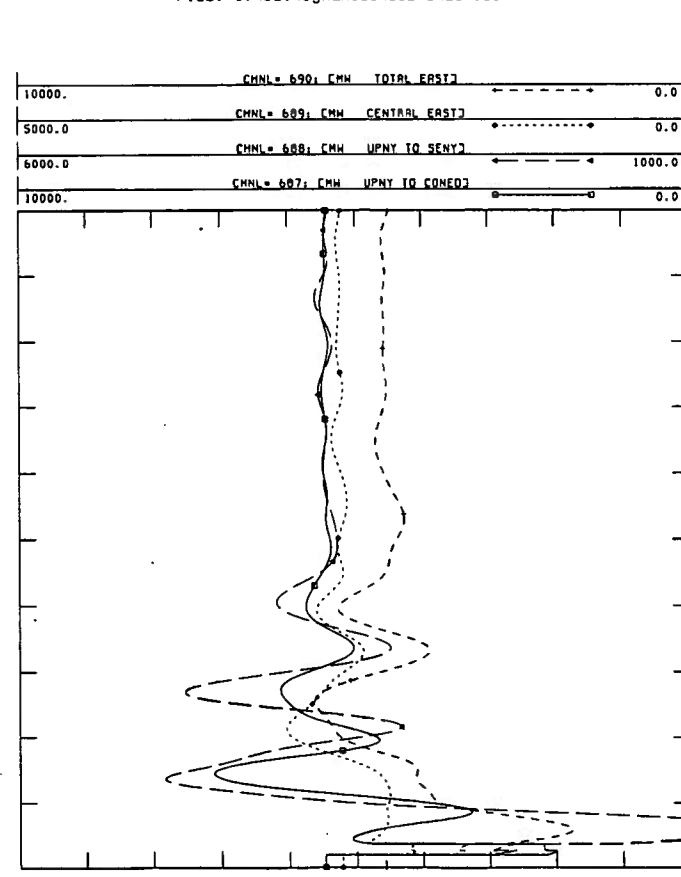


FRI, MAR 31 2000 13:38
RUN E3A PLOT 13



CASE DS2: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamics\DS2AUNE3A.OUT



FRI, MAR 31 2000 13:38
RUN E3A PLOT 16

APPENDIX F.3 - Summer Peak Case DS3

Bowline 1, 2 and 3 , Athens, ANP and Sithe On-Line

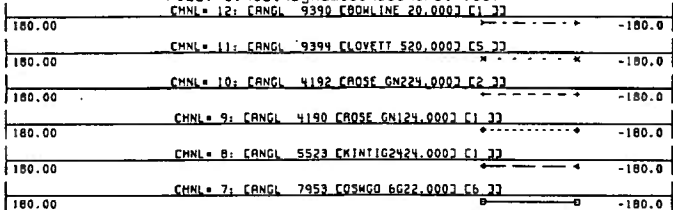
CONTINGENCY D1A

RECOVER FROM D1.SNP AND DS3.CNV
START OUTPUT DS3RUND1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4310 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BOWLINE
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9398 / TRIP BOWLINE 3 ST
TRIP BRANCH FROM BUS 9398 TO BUS 4311 CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT
CHNL = 12: CANGL 9390 CROUZE 20.000 C1 JJ

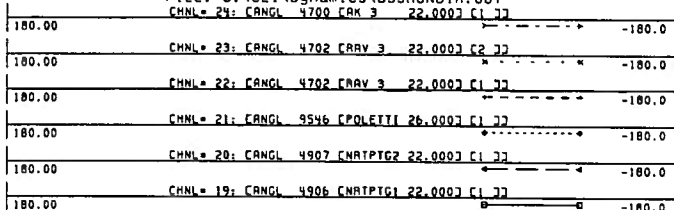


FRI, MAR 31 2000 15:58
RUN DIA PLOT 2



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT
CHNL = 23: CANGL 4702 CARV 3 22.000 C2 JJ

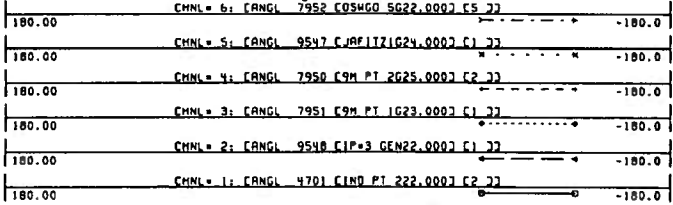


FRI, MAR 31 2000 15:58
RUN DIA PLOT 4



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT
CHNL = 6: CANGL 7952 CROUZE 5622.000 C5 JJ

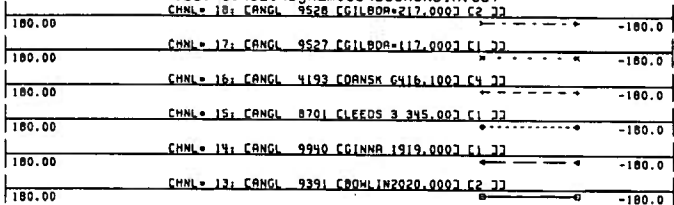


FRI, MAR 31 2000 15:58
RUN DIA PLOT 1



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT
CHNL = 18: CANGL 9528 CROUZE 217.000 C2 JJ

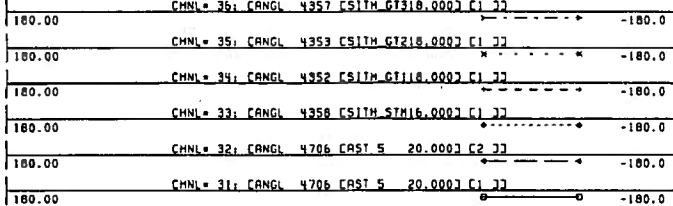


FRI, MAR 31 2000 15:58
RUN DIA PLOT 3



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT
CHNL = 35: CANGL 4357 CSITH GT18.0002 C1 JJ

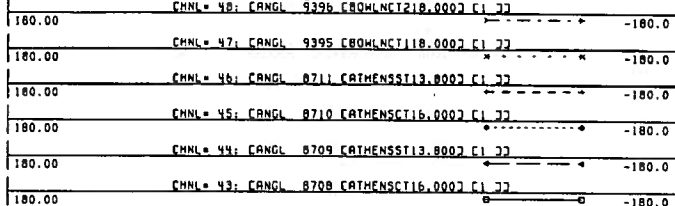


FRI, MAR 31 2000 15:58
RUN DIA PLOT 6



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT
CHNL = 48: CANGL 5396 CBOWLNCT18.0002 C1 JJ

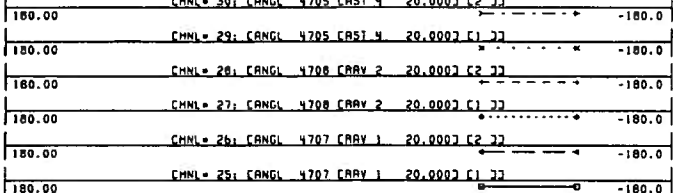


FRI, MAR 31 2000 15:58
RUN DIA PLOT 8



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT
CHNL = 30: CANGL 4705 CAST 4 20.0002 C2 JJ

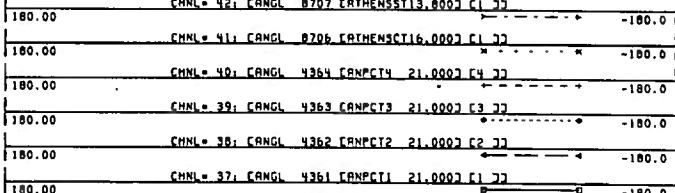


FRI, MAR 31 2000 15:58
RUN DIA PLOT 5



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT
CHNL = 42: CANGL 8707 CATHENSST13.0002 C1 JJ



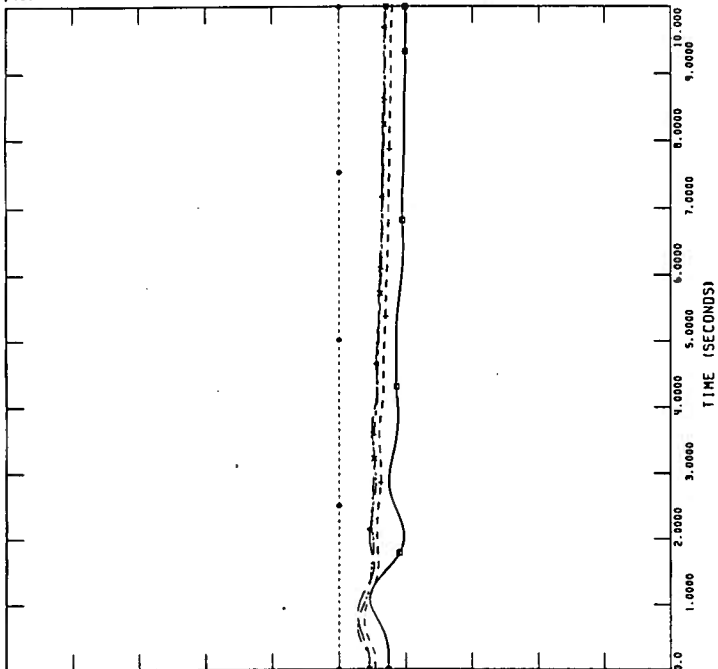
FRI, MAR 31 2000 15:58
RUN DIA PLOT 7



CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUND1A.OUT
CHNL= 60: CANGI 2331 CMTN CK424.0007 C1 JJ

CHNL= 59: CANGI 23310 CMTN CK324.0007 C1 JJ
CHNL= 58: CANGI 2304 CLIMERIC2.0007 C1 JJ
CHNL= 57: CANGI 23499 CLIMERIC122.0007 C1 JJ
CHNL= 56: CANGI 23039 CHDPE CA J C1 JJ
CHNL= 55: CANGI 2869 CSARK G1 25.0007 C1 JJ



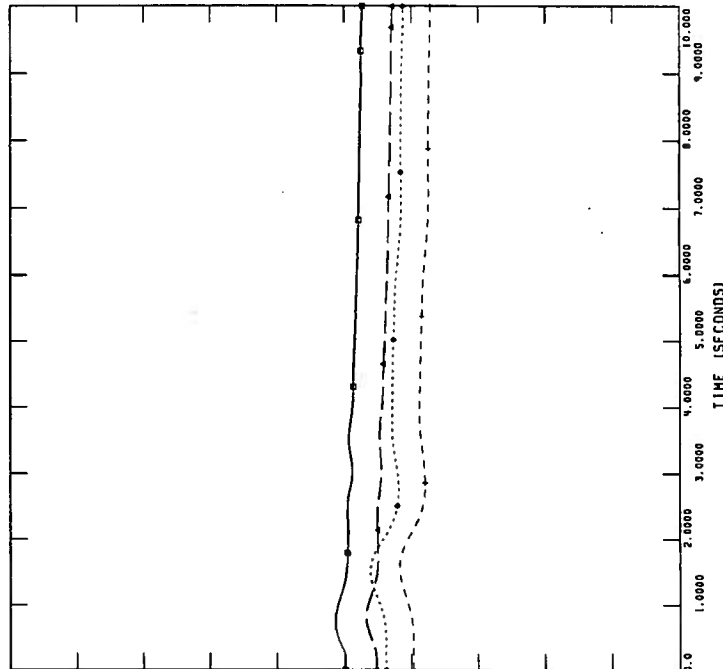
FRI, MAR 31 2000 15:58
RUN DIA PLOT 10



CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUND1A.OUT

CHNL= 70: CANGI 17472 CALLONG2 19.0007 C1 JJ
CHNL= 69: CANGI 17456 CLEPAG1 26.0007 C1 JJ
CHNL= 68: CANGI 23194 ET M J G1.00007 C1 JJ
CHNL= 67: CANGI 23040 CSUQUEHA J C1 JJ



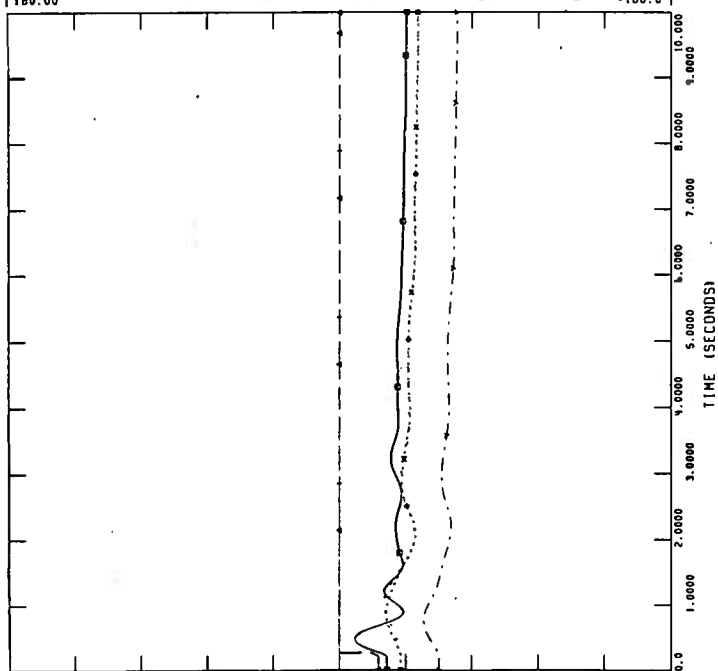
FRI, MAR 31 2000 15:58
RUN DIA PLOT 12



CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUND1A.OUT
CHNL= 54: CANGI 3648 CAPTHER=322.0007 C3 JJ

CHNL= 53: CANGI 2371 CDP=4 GN22.0007 C1 JJ
CHNL= 52: CANGI 3563 CHILL=3 24.0007 C3 JJ
CHNL= 51: CANGI 3562 CHILL=2 24.0007 C2 JJ
CHNL= 50: CANGI 9398 CBOWLNST 18.0007 C1 JJ
CHNL= 49: CANGI 9397 CBOWLNCT318.0007 C1 JJ



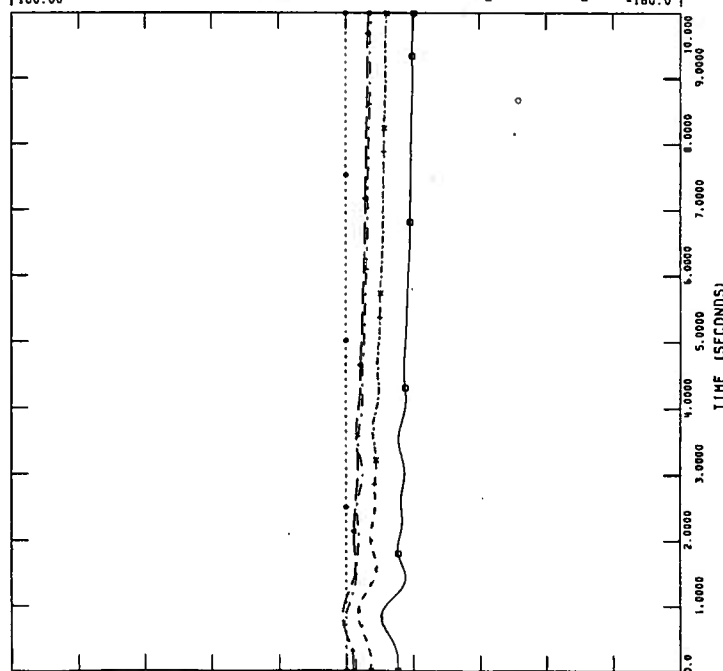
FRI, MAR 31 2000 15:58
RUN DIA PLOT 9



CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUND1A.OUT
CHNL= 66: CANGI 23368 CSUSA 1 24.0007 C1 JJ

CHNL= 65: CANGI 23002 CSALEM G2 J C1 JJ
CHNL= 64: CANGI 23001 CSALEM G1 J C1 JJ
CHNL= 63: CANGI 23000 CPCBATH=3 J C1 JJ
CHNL= 62: CANGI 25999 CPCBATH=2 J C1 JJ
CHNL= 61: CANGI 23201 COYSTCAG J C1 JJ

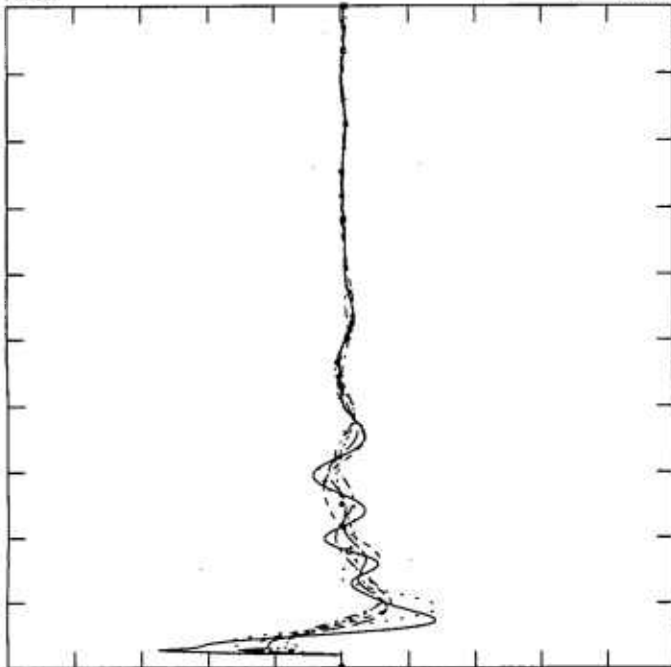


FRI, MAR 31 2000 15:58
RUN DIA PLOT 11

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT
CHNL = 705: 60*(1-CFREQ 23003 CALBUT15500.0022)

60.250	CHNL = 705: 60*(1-CFREQ 4327 CFARAGUT345.0022)	59.750
60.250	CHNL = 705: 60*(1-CFREQ 3105 CLONG MTN345.0022)	59.750
60.250	CHNL = 702: 60*(1-CFREQ 9577 CHANCY765765.0022)	59.750
60.250	CHNL = 701: 60*(1-CFREQ 5403 CFARAGUT345.0022)	59.750
60.250	CHNL = 700: 60*(1-CFREQ 4327 CFARAGUT 345.0022)	59.750



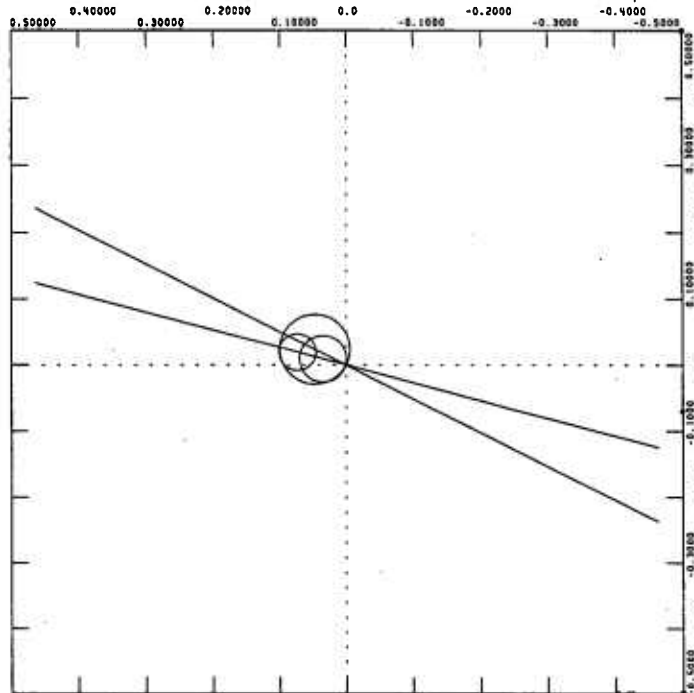
FRI, MAR 31 2000 15:58
RUN DIA PLOT 14

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

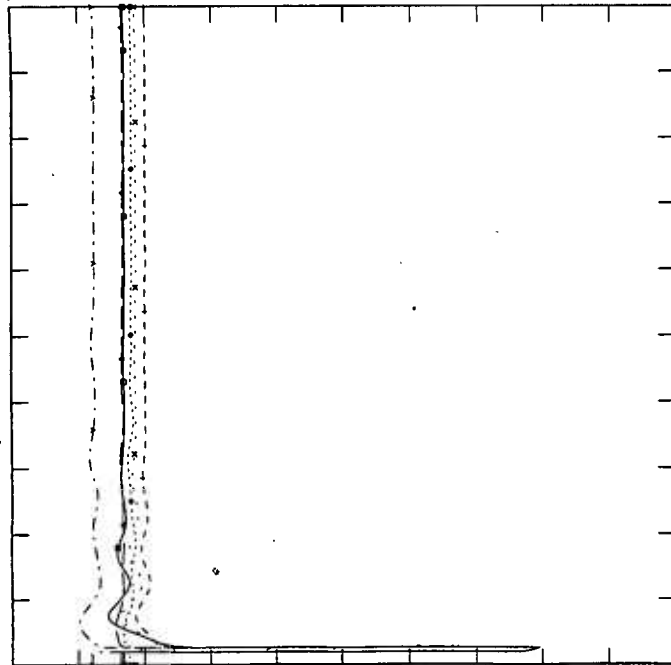


FRI, MAR 31 2000 15:58
RUN DIA PLOT 16

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT
CHNL = 691: CVOLT 23003 CALBUT15500.0022

1.2000	CHNL = 508: CVOLT 4327 CFARAGUT345.0022	0.20000
1.2000	CHNL = 636: CVOLT 3105 CLONG MTN345.0022	0.20000
1.2000	CHNL = 572: CVOLT 9577 CHANCY765765.0022	0.20000
1.2000	CHNL = 545: CVOLT 5403 CFARAGUT345.0022	0.20000
1.2000	CHNL = 528: CVOLT 4327 CFARAGUT 345.0022	0.20000

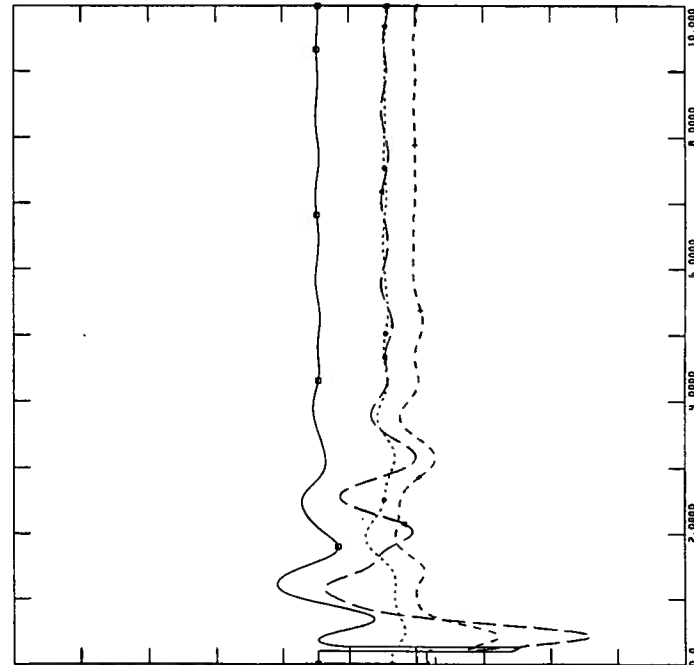


FRI, MAR 31 2000 15:58
RUN DIA PLOT 13

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS3RUNDIA.OUT

10000.0	CHNL = 690: CMW TOTAL EAST	0.0
5000.0	CHNL = 689: CMW CENTRAL EAST	0.0
6000.0	CHNL = 688: CMW UPNY TO SEHY	1000.0
10000.0	CHNL = 687: CMW UPNY TO CONED	0.0

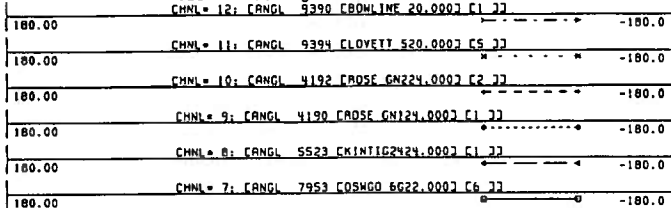


FRI, MAR 31 2000 15:58
RUN DIA PLOT 15

CONTINGENCY D2A

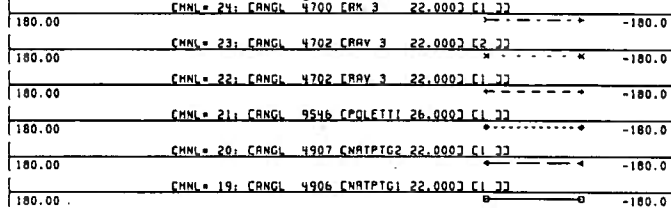
```
RECOVER FROM D1.SNP AND DS3.CNV
START OUTPUT DS3RUND2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9390 / TRIP BOWLINE 1
DROP GENERATOR 2 AT BUS 9391 / TRIP BOWLINE 2
DROP GENERATOR 1 AT BUS 9395 / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9396 / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9397 / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9398 / TRIP BOWLINE 3 ST
DISCONNECT BUS 9300 /
DISCONNECT BUS 9301 /
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3
```

CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DS3RUND2A.OUT
CHNL = 12: CANGL 9390 CBOWLINE 20.0000 C1 JJ



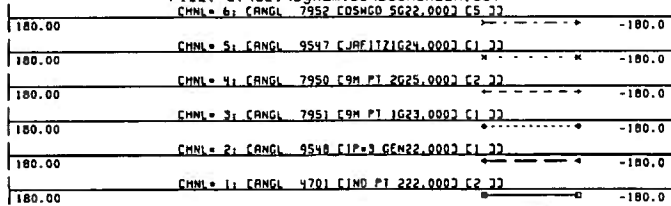
FRI, MAR 31 2000 15:58
RUN D2A PLOT 2

CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DS3RUND2A.OUT
CHNL = 24: CANGL 4700 CRY 3 22.0000 C1 JJ



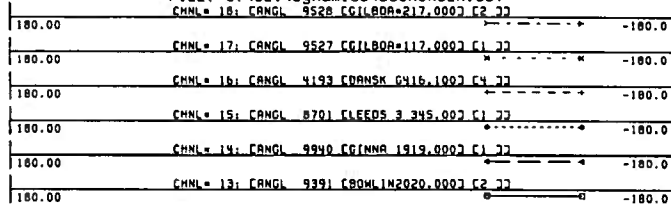
FRI, MAR 31 2000 15:58
RUN D2A PLOT 4

CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DS3RUND2A.OUT
CHNL = 6: CANGL 7952 COSMGO 5622.0000 C5 JJ



FRI, MAR 31 2000 15:58
RUN D2A PLOT 1

CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DS3RUND2A.OUT
CHNL = 18: CANGL 9528 CGILBOP 217.0000 C2 JJ



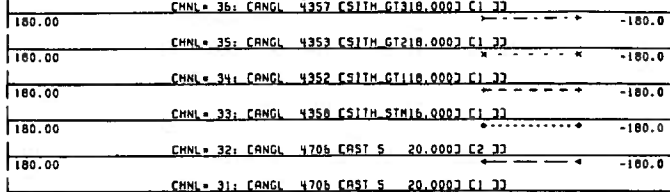
FRI, MAR 31 2000 15:58
RUN D2A PLOT 3



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS3AUND2A.OUT

CHNL = 35: CANGL 4353 CSITH GT18.000 C1 JJ



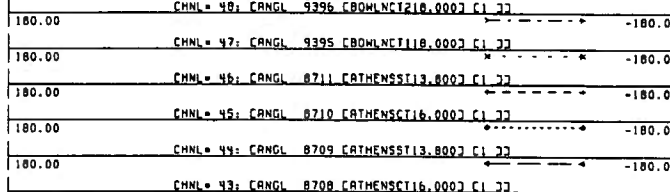
FRI, MAR 31 2000 15:58
RUN D2A PLOT 6



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS3AUND2A.OUT

CHNL = 48: CANGL 9395 CBOWLCT18.000 C1 JJ



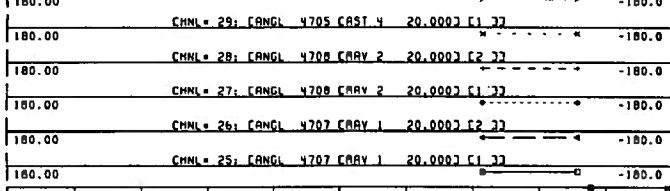
FRI, MAR 31 2000 15:58
RUN D2A PLOT 8



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS3AUND2A.OUT

CHNL = 29: CANGL 4705 CAST 4 20.000 C1 JJ



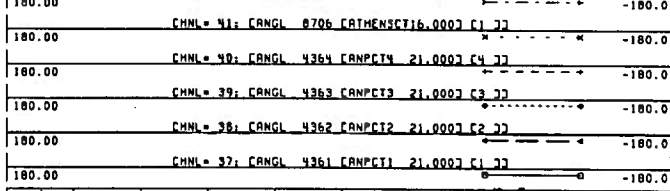
FRI, MAR 31 2000 15:58
RUN D2A PLOT 5



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS3AUND2A.OUT

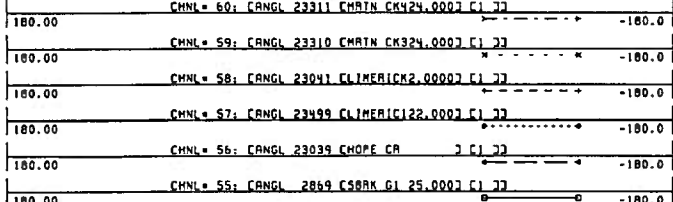
CHNL = 41: CANGL 8706 CATHENSCT18.000 C1 JJ



FRI, MAR 31 2000 15:58
RUN D2A PLOT 7



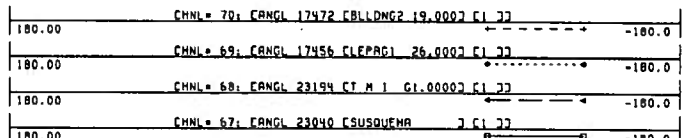
CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DS3RUND2A.OUT
CHNL = 60: CANGL 23311 CMATN CM424.0002 CI JJ



FRI, MAR 31 2000 15:58
RUN D2A PLOT 10



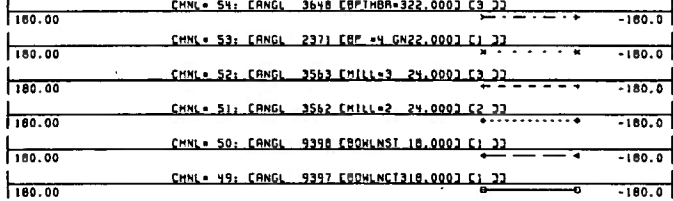
CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DS3RUND2A.OUT
CHNL = 70: CANGL 17472 CBLLDMG2 19.0002 CI JJ



FRI, MAR 31 2000 15:58
RUN D2A PLOT 12



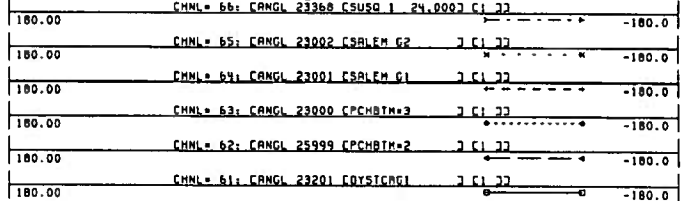
CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DS3RUND2A.OUT
CHNL = 53: CANGL 2371 EAP -4 GM22.0002 CI JJ



FRI, MAR 31 2000 15:58
RUN D2A PLOT 9



CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DS3RUND2A.OUT
CHNL = 65: CANGL 23002 CSALEM G2 24.0002 CI JJ



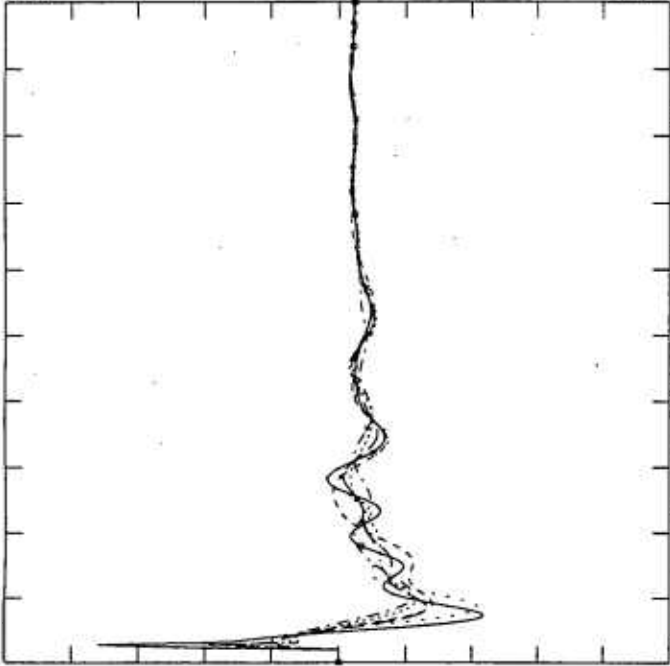
FRI, MAR 31 2000 15:58
RUN D2A PLOT 11



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamics\DS3RUND2A.OUT
CHNL= 700: 50=11-CPROD 23003 CALBUNT15500.0077

60.250	CHNL= 704: 50=11-CPROD 4327 CPARRAGUT345.0077	59.750
60.250	CHNL= 702: 50=11-CPROD 3105 CLONG MTN345.0077	59.750
60.250	CHNL= 702: 50=11-CPROD 9577 CMARCY765765.0077	59.750
60.250	CHNL= 701: 50=11-CPROD 5403 CPARRAGUT345.0077	59.750
60.250	CHNL= 700: 50=11-CPROD 4347 CARRAPO 345.0077	59.750



FRI, MAR 31 2000 15:58
RUN D2A PLOT 14

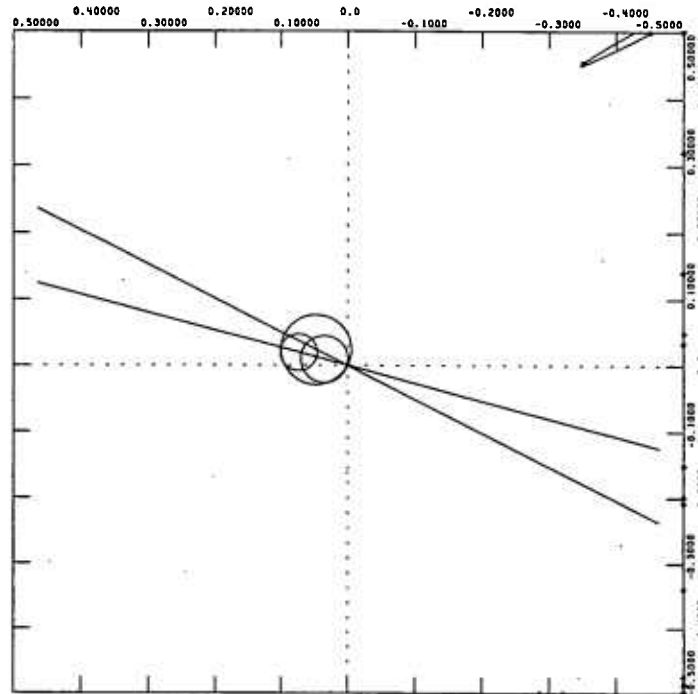


CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamics\DS3RUND2A.OUT

RELAY: DISTR

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL= 697: CAPPX 17004 TO 17230 CKT 13



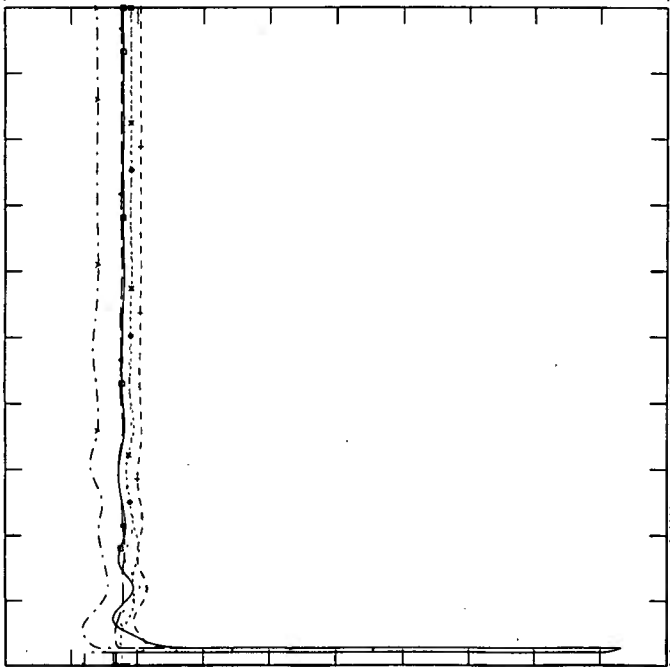
FRI, MAR 31 2000 15:58
RUN D2A PLOT 16



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamics\DS3RUND2A.OUT
CHNL= 651: CVOLT 23003 CALBUNT15500.0077

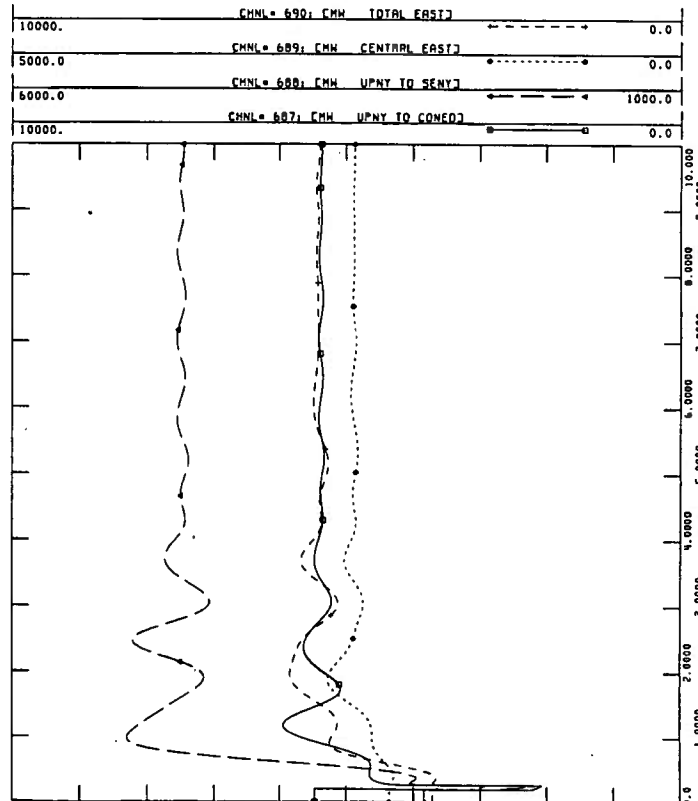
1.2000	CHNL= 500: CVOLT 4327 CPARRAGUT345.0077	0.20000
1.2000	CHNL= 636: CVOLT 3105 CLONG MTN345.0077	0.20000
1.2000	CHNL= 572: CVOLT 9577 CMARCY765765.0077	0.20000
1.2000	CHNL= 545: CVOLT 5403 CPARRAGUT345.0077	0.20000
1.2000	CHNL= 528: CVOLT 4347 CARRAPO 345.0077	0.20000



FRI, MAR 31 2000 15:58
RUN D2A PLOT 13



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamics\DS3RUND2A.OUT



FRI, MAR 31 2000 15:58
RUN D2A PLOT 15

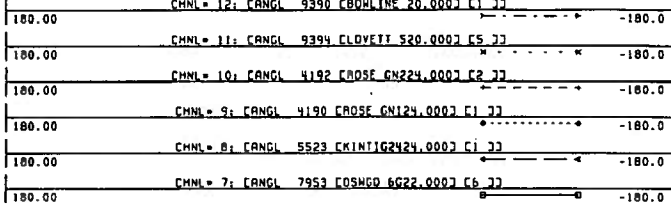
CONTINGENCY D3A

RECOVER FROM D1.SNP AND DS3.CNV
START OUTPUT DS3RUND3A.OUT .
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 9582 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT INDN PT 3
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9548 / TRIP INDN PT 3
TRIP LINE FROM BUS 4313 TO BUS 9582 CKT 1
CLEAR FAULT .
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS3\RUND3A.OUT

CHNL = 12: CANGL 9390 CBOHLINE 20.0000 C1 JJ

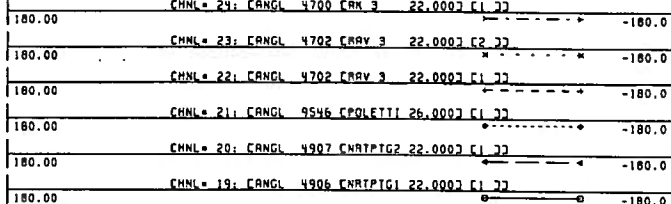


FRI, MAR 31 2000 15:58
RUN D3A PLOT 2

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS3\RUND3A.OUT

CHNL = 24: CANGL 4700 CRY 3 22.0000 C1 JJ

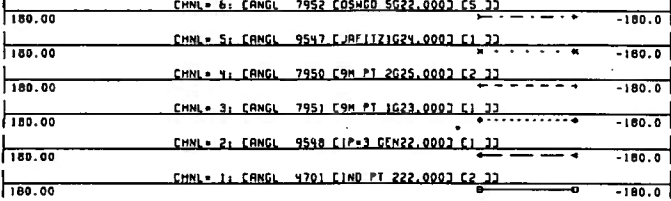


FRI, MAR 31 2000 15:58
RUN D3A PLOT 4

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS3\RUND3A.OUT

CHNL = 6: CANGL 7952 COSWED 5G22.0000 C5 JJ

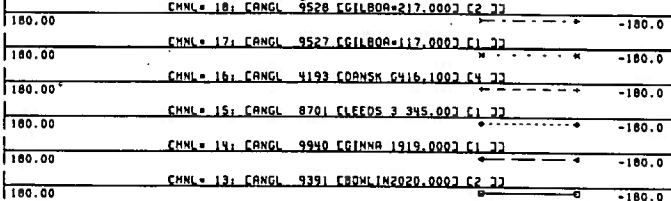


FRI, MAR 31 2000 15:58
RUN D3A PLOT 1

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS3\RUND3A.OUT

CHNL = 18: CANGL 9528 CGILBOA 217.0000 C2 JJ

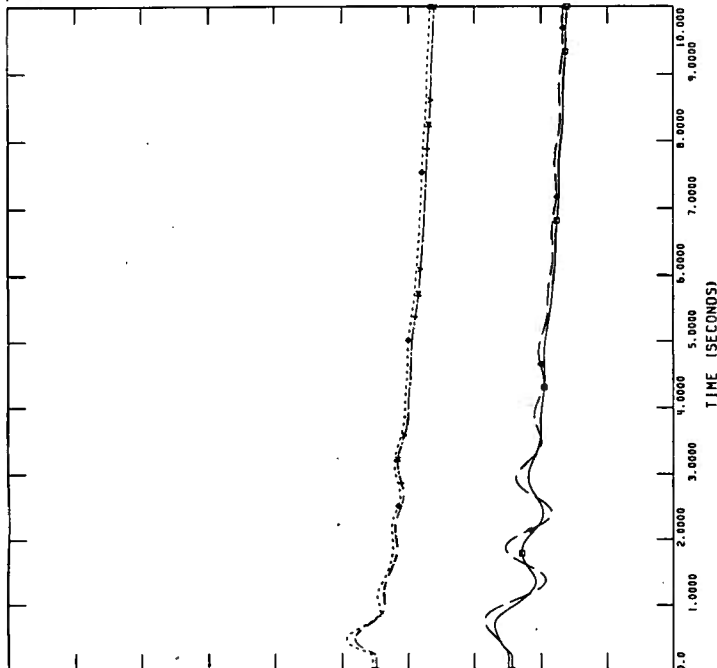


FRI, MAR 31 2000 15:58
RUN D3A PLOT 3

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE. ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT
CHNL = 36: CANCEL 4357 CSITH GT218.0007 C1 JJ

180.00 CHNL = 35: CANCEL 4353 CSITH GT218.0007 C1 JJ -180.0
180.00 CHNL = 34: CANCEL 4352 CSITH GT118.0007 C1 JJ -180.0
180.00 CHNL = 33: CANCEL 4358 CSITH SIM16.0007 C1 JJ -180.0
180.00 CHNL = 32: CANCEL 4706 EAST 5 20.0007 C2 JJ -180.0
180.00 CHNL = 31: CANCEL 4706 EAST 5 20.0007 C1 JJ -180.0

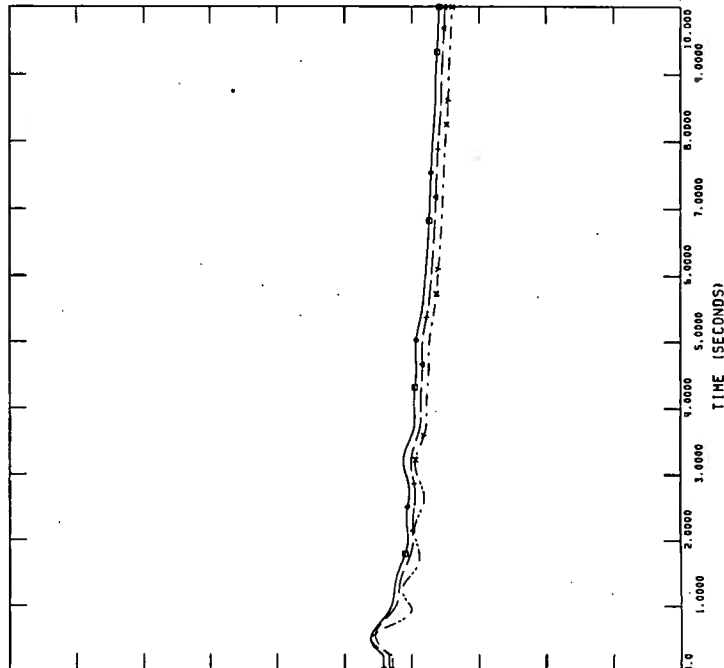


FRI, MAR 31 2000 15:58
RUN D3A PLOT 6

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE. ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT
CHNL = 48: CANCEL 9395 CBOWLNCT218.0007 C1 JJ

180.00 CHNL = 47: CANCEL 9395 CBOWLNCT118.0007 C1 JJ -180.0
180.00 CHNL = 46: CANCEL 8711 CATHEMNST13.8007 C1 JJ -180.0
180.00 CHNL = 45: CANCEL 8710 CATHEMNST16.0007 C1 JJ -180.0
180.00 CHNL = 44: CANCEL 8709 CATHEMNST13.8007 C1 JJ -180.0
180.00 CHNL = 43: CANCEL 8708 CATHEMNST16.0007 C1 JJ -180.0

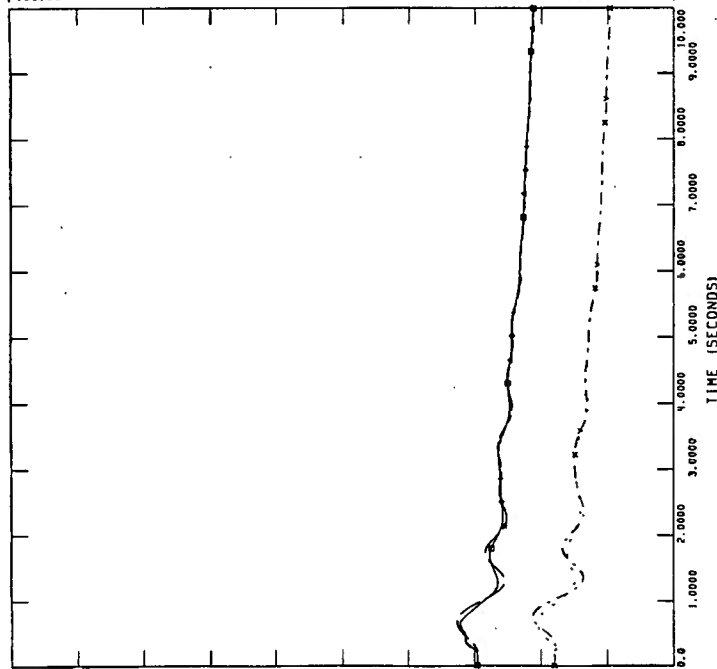


FRI, MAR 31 2000 15:58
RUN D3A PLOT 8

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE. ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT
CHNL = 30: CANCEL 4705 EAST 4 20.0007 C2 JJ

180.00 CHNL = 29: CANCEL 4705 EAST 4 20.0007 C1 JJ -180.0
180.00 CHNL = 28: CANCEL 4708 CARY 2 20.0007 C2 JJ -180.0
180.00 CHNL = 27: CANCEL 4708 CARY 2 20.0007 C1 JJ -180.0
180.00 CHNL = 26: CANCEL 4707 CARY 1 20.0007 C2 JJ -180.0
180.00 CHNL = 25: CANCEL 4707 CARY 1 20.0007 C1 JJ -180.0

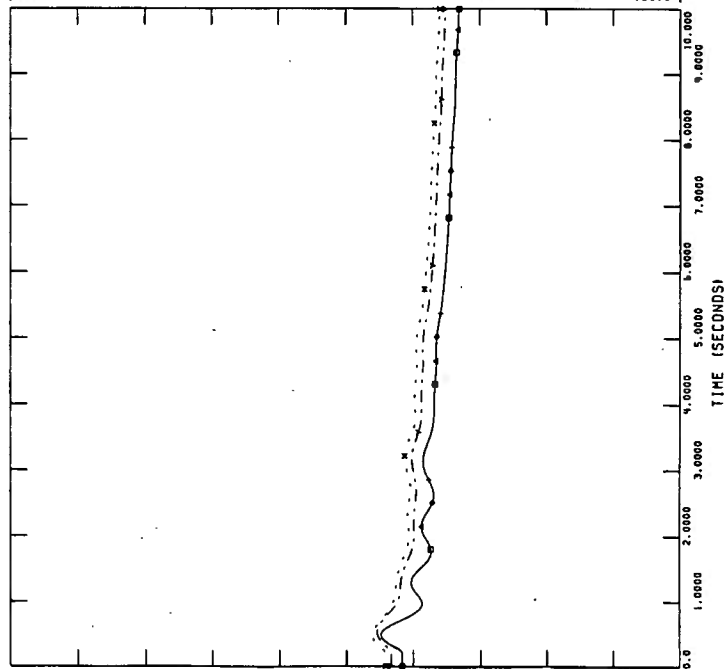


FRI, MAR 31 2000 15:58
RUN D3A PLOT 5

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE. ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT
CHNL = 42: CANCEL 8707 CATHEMNST13.8007 C1 JJ

180.00 CHNL = 41: CANCEL 8706 CATHEMNST16.0007 C1 JJ -180.0
180.00 CHNL = 40: CANCEL 4364 CANPCT4 21.0007 C4 JJ -180.0
180.00 CHNL = 39: CANCEL 4363 CANPCT3 21.0007 C3 JJ -180.0
180.00 CHNL = 38: CANCEL 4362 CANPCT2 21.0007 C2 JJ -180.0
180.00 CHNL = 37: CANCEL 4361 CANPCT1 21.0007 C1 JJ -180.0



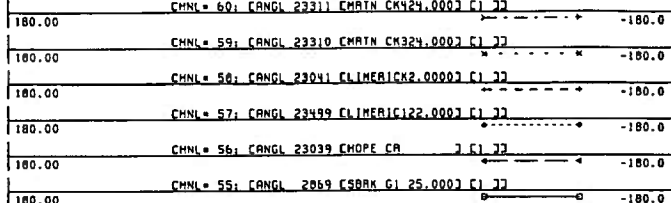
FRI, MAR 31 2000 15:58
RUN D3A PLOT 7



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT

CHNL = 60: CANGL 23311 CMATN CM324.0000 C1 JJ



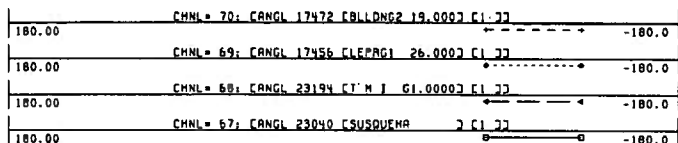
FRI, MAR 31 2000 15:58
RUN D3A PLOT 10



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT

CHNL = 70: CANGL 17472 CBLDNG2 19.0000 C1 JJ



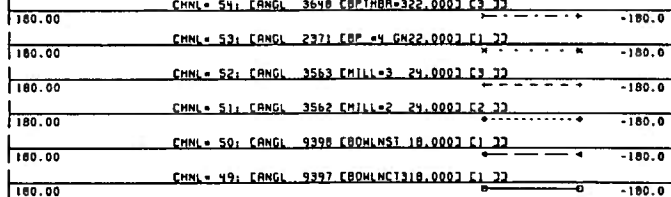
FRI, MAR 31 2000 15:58
RUN D3A PLOT 12



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT

CHNL = 54: CANGL 3640 CPTMBA322.0000 C3 JJ



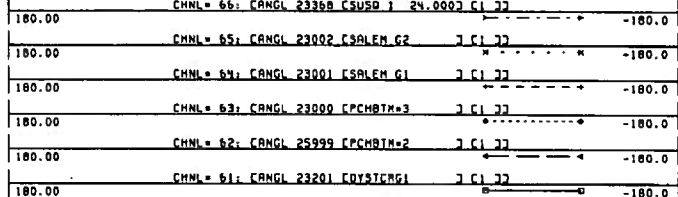
FRI, MAR 31 2000 15:58
RUN D3A PLOT 9



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT

CHNL = 66: CANGL 23358 CSUSB 1 24.0000 C1 JJ



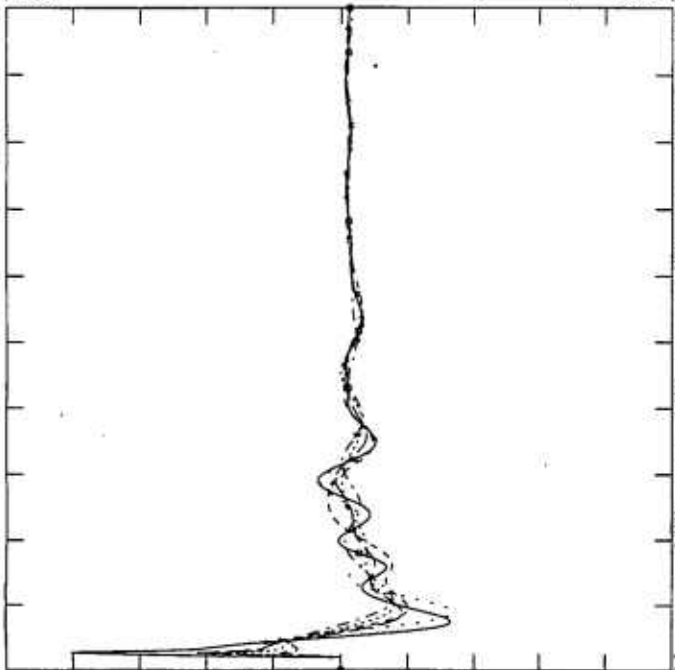
FRI, MAR 31 2000 15:58
RUN D3A PLOT 11



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT

60.250	CHNL = 795: 60=11-CFREQ 23003 CALBUNT15500.0077	59.750
60.250	CHNL = 794: 60=11-CFREQ 4327 CFARACUT345.0077	59.750
60.250	CHNL = 793: 60=11-CFREQ 3105 CLONG MTN345.0077	59.750
60.250	CHNL = 792: 60=11-CFREQ 9577 CHARGE765765.0077	59.750
60.250	CHNL = 791: 60=11-CFREQ 5403 CFARACUT345.0077	59.750
60.250	CHNL = 790: 60=11-CFREQ 4347 CARMPO 345.0077	59.750



FRI, MAR 31 2000 15:58
RUN D3A PLOT 14

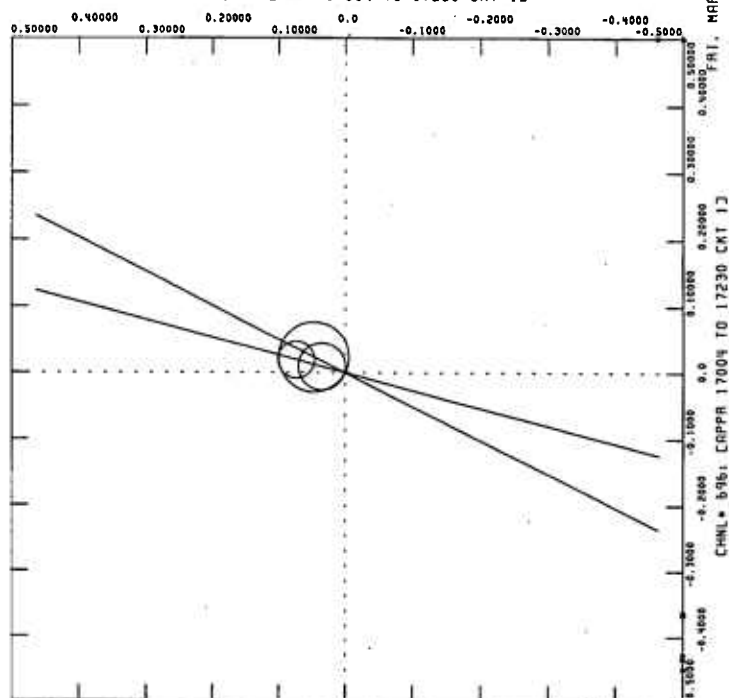


CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13



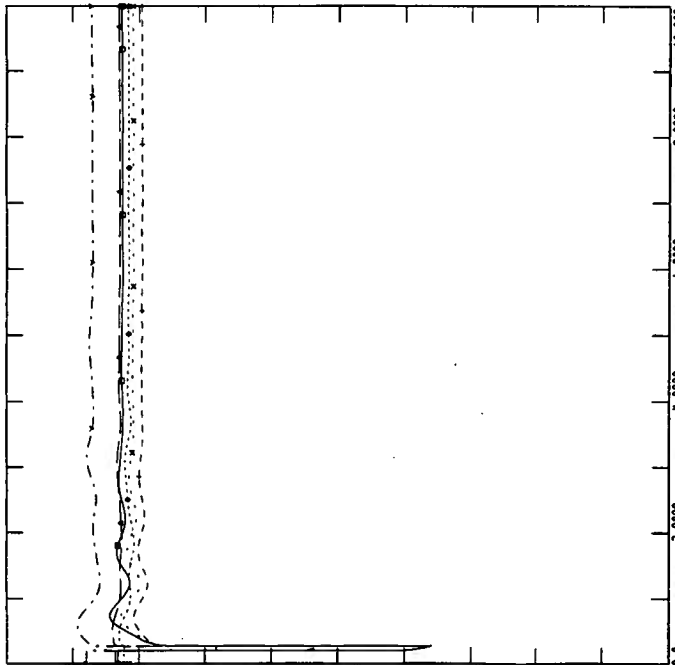
FRI, MAR 31 2000 15:58
RUN D3A PLOT 16



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT

1.2000	CHNL = 508: CVOLT 4327 CFARACUT345.0077	0.20000
1.2000	CHNL = 636: CVOLT 3105 CLONG MTN345.0077	0.20000
1.2000	CHNL = 572: CVOLT 9577 CHARGE765765.0077	0.20000
1.2000	CHNL = 545: CVOLT 5403 CFARACUT345.0077	0.20000
1.2000	CHNL = 528: CVOLT 4347 CARMPO 345.0077	0.20000

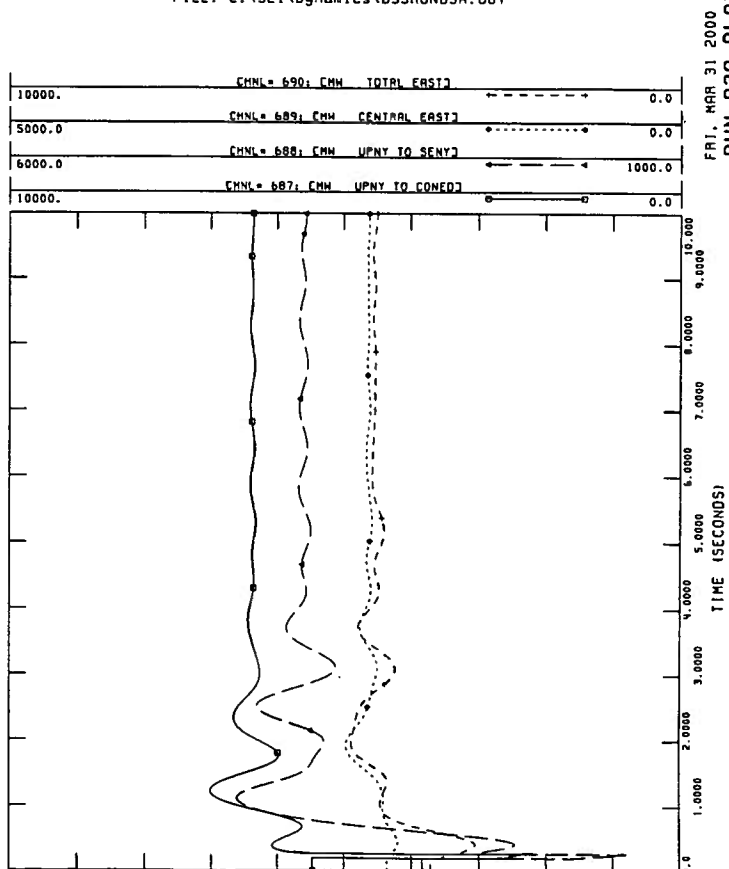


FRI, MAR 31 2000 15:58
RUN D3A PLOT 13



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS3RUND3A.OUT

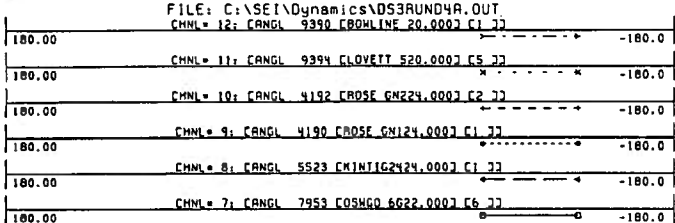


FRI, MAR 31 2000 15:58
RUN D3A PLOT 15

CONTINGENCY D4A

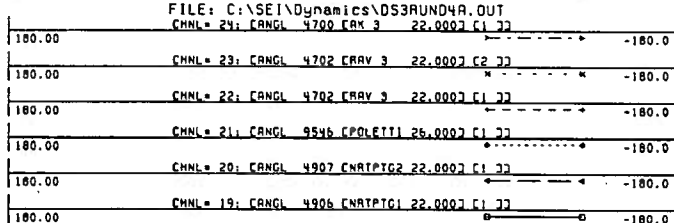
RECOVER FROM D1.SNP AND DS3.CNV
START OUTPUT DS3RUND4A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4347 CKT 1 / TRIP LADENTOWN-RAMAPO
CLEAR FAULT
RUN FOR 31 CYCLES PRINT 0 PLOT 3
APPLY FAULT BUS 4347 IMPEDANCE 0.119 2.642 OHMS BASEKV 345 / RECLOSE AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3AUND4A.OUT
CHNL = 12: CANGL 9390 CPOWLINE 20.0000 C1 JJ



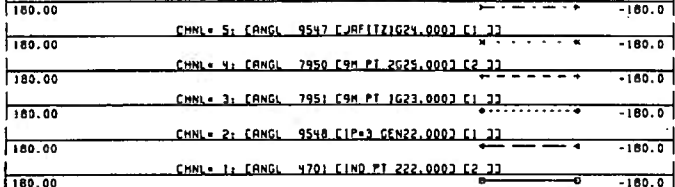
FRI, MAR 31 2000 15:58
RUN 04A PLOT 2

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3AUND4A.OUT
CHNL = 23: CANGL 4702 CAV 3 22.0000 C2 JJ



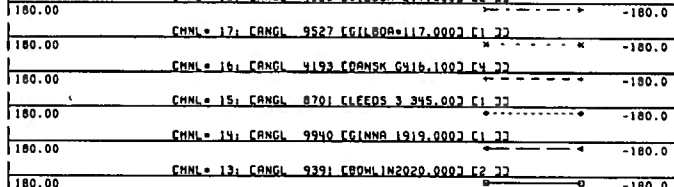
FRI, MAR 31 2000 15:58
RUN 04A PLOT 4

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3AUND4A.OUT
CHNL = 6: CANGL 7952 COSMGO 5622.0000 C5 JJ



FRI, MAR 31 2000 15:58
RUN 04A PLOT 1

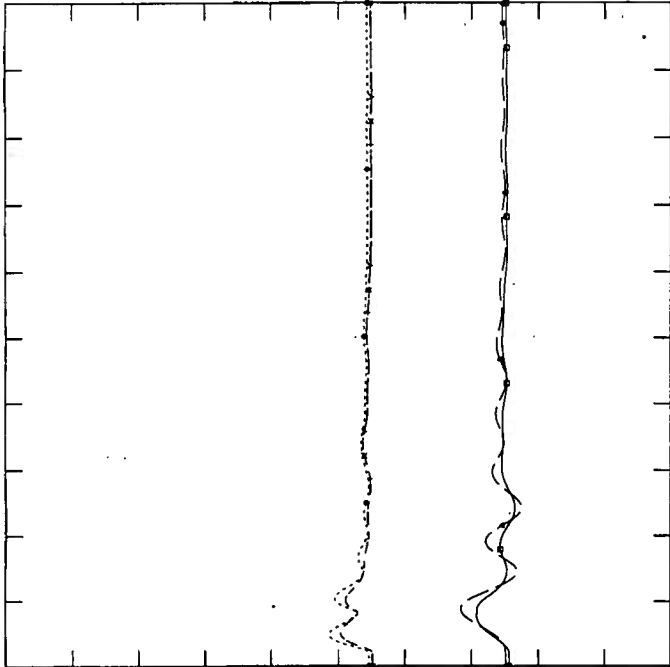
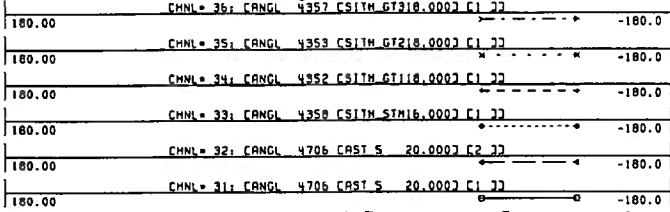
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3AUND4A.OUT
CHNL = 18: CANGL 9528 CGLBOP=217.0000 C2 JJ



FRI, MAR 31 2000 15:58
RUN 04A PLOT 3



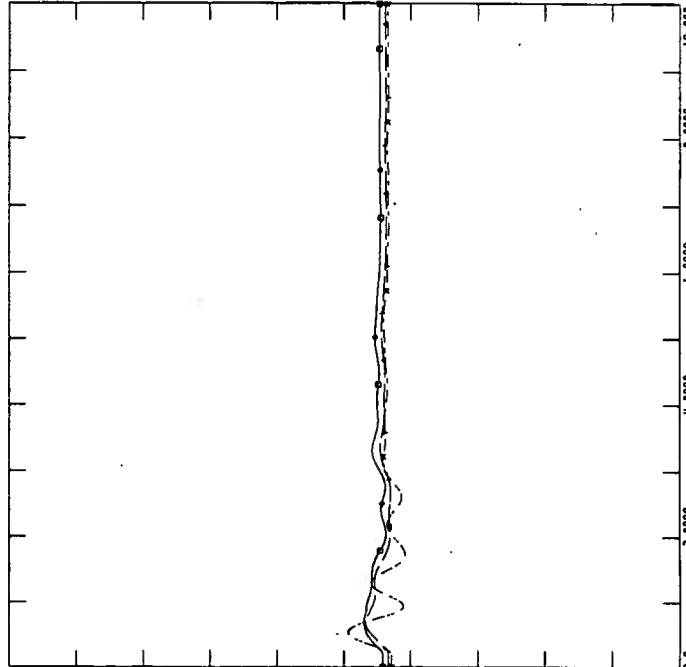
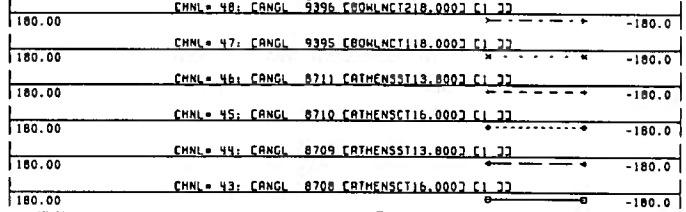
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3RUND4A.OUT
CHNL = 36: CANGL 4357 CSITH GT18.0007 C1 JJ



FRI, MAR 31 2000 15:58
RUN D4A PLOT 6



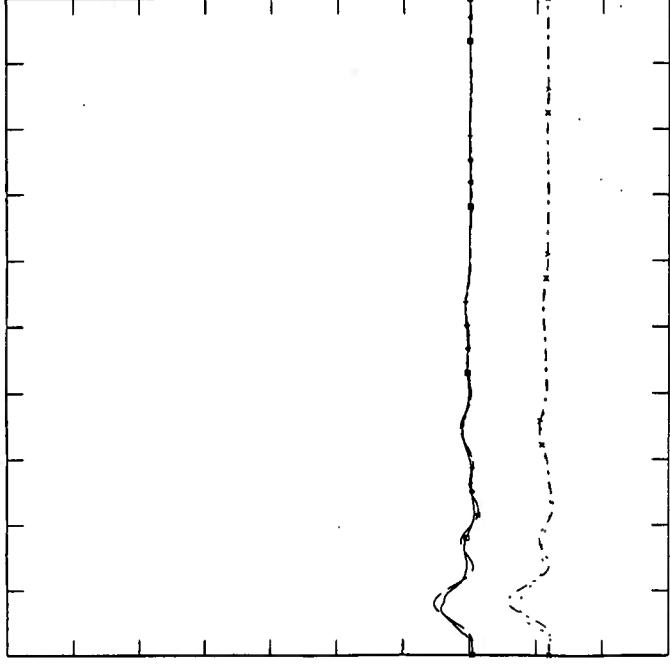
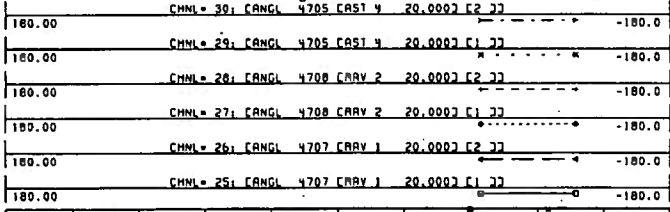
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3RUND4A.OUT
CHNL = 48: CANGL 9396 CBOWLNCT18.0007 C1 JJ



FRI, MAR 31 2000 15:58
RUN D4A PLOT 7



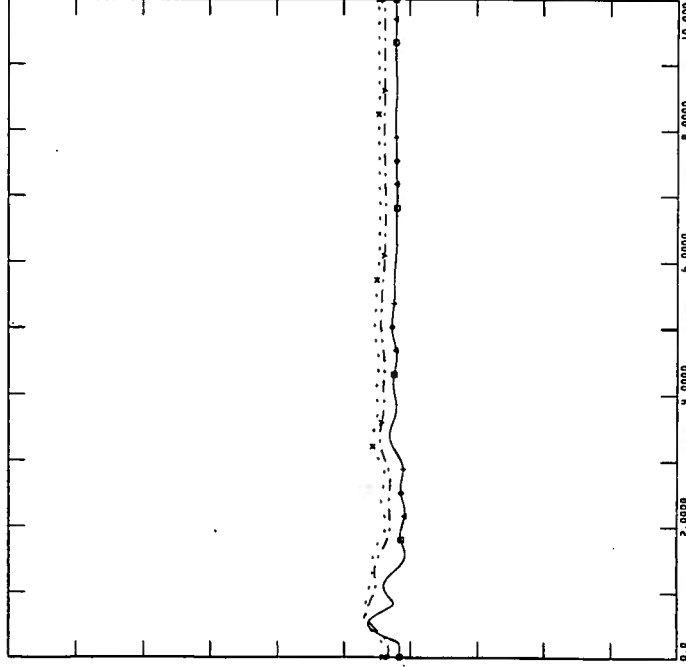
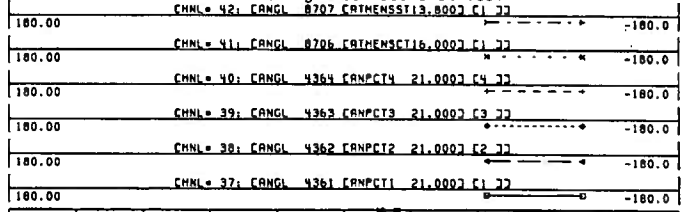
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3RUND4A.OUT
CHNL = 39: CANGL 4705 CAST Y 20.0007 C2 JJ



FRI, MAR 31 2000 15:58
RUN D4A PLOT 5

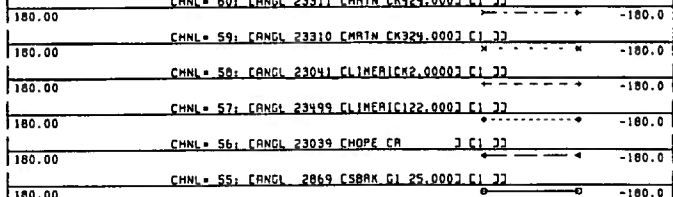


CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3RUND4A.OUT
CHNL = 42: CANGL 8707 CATHENSST13.8007 C1 JJ



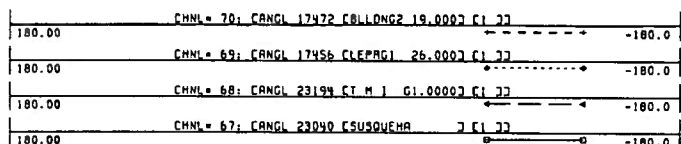
FRI, MAR 31 2000 15:58
RUN D4A PLOT 8

CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\053RUND4A.OUT
CHNL = 60: CANGI 23311 CMATN CK324.0000 C1 JJ



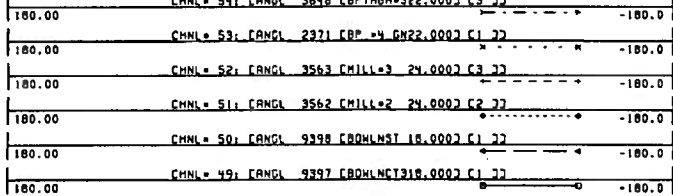
FRI, MAR 31 2000 15:58
RUN 04A PLOT 10

CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\053RUND4A.OUT



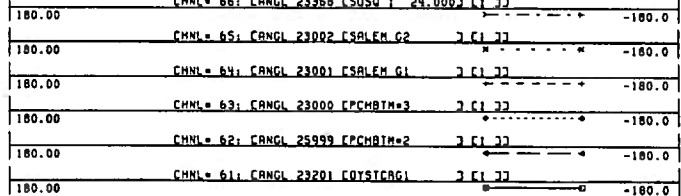
FRI, MAR 31 2000 15:58
RUN 04A PLOT 12

CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\053RUND4A.OUT
CHNL = 54: CANGI 3648 CPTIHA=322.0000 C3 JJ



FRI, MAR 31 2000 15:58
RUN 04A PLOT 9

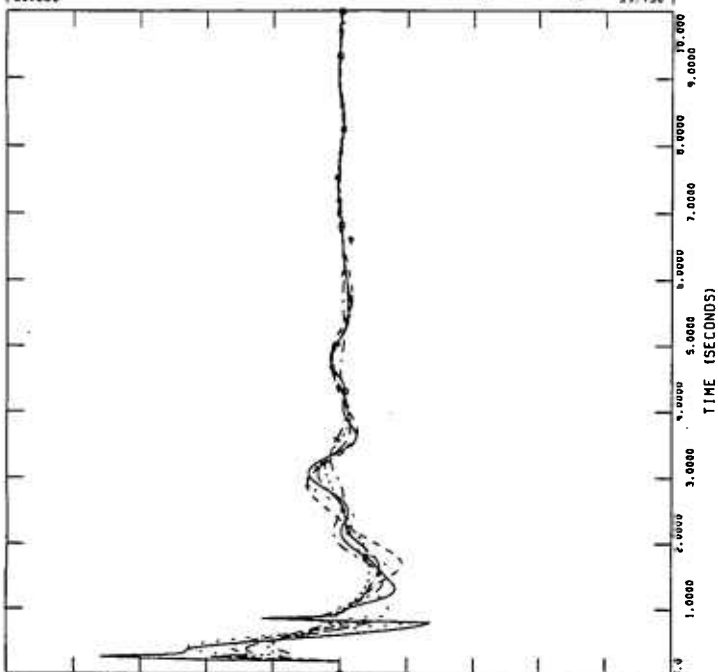
CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\053RUND4A.OUT
CHNL = 66: CANGI 23369 CSUSQ 1 24.0000 C1 JJ



FRI, MAR 31 2000 15:58
RUN 04A PLOT 11

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3RUND4A.OUT

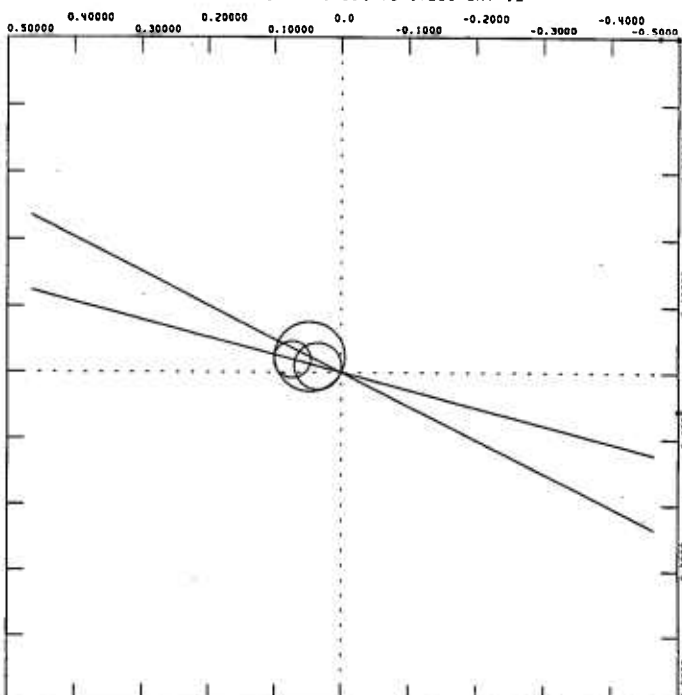
CHNL = 705: 60=11-CFREQ 23002 CALBURN15500.0077
CHNL = 704: 60=11-CFREQ 4327 CFARAGUT345.0077
CHNL = 703: 60=11-CFREQ 3105 CLONG MTN345.0077
CHNL = 702: 60=11-CFREQ 9577 CHARCY765765.0077
CHNL = 701: 60=11-CFREQ 5403 CFARAGUT345.0077
CHNL = 700: 60=11-CFREQ 4347 RAMAPO 345.0077



FRI, MAR 31 2000 15:58
RUN D4A PLOT 14

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3RUND4A.OUT

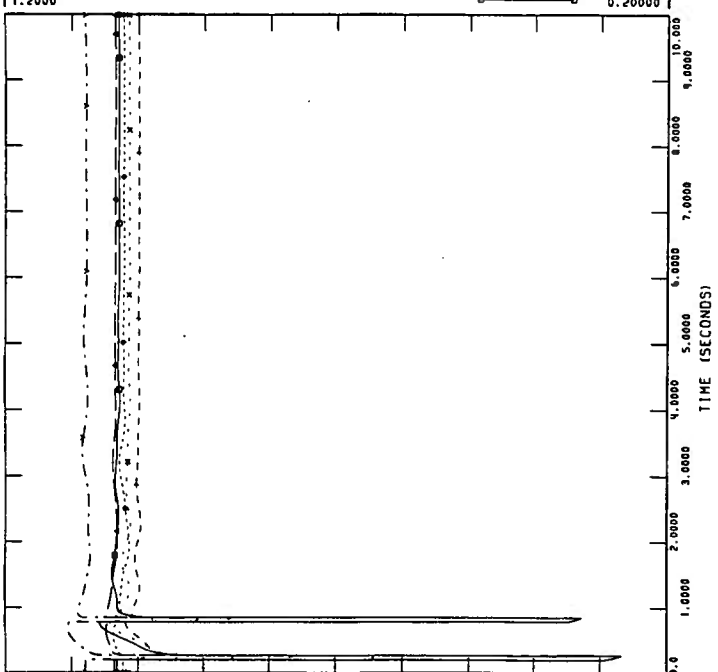
RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13



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RUN D4A PLOT 13

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3RUND4A.OUT

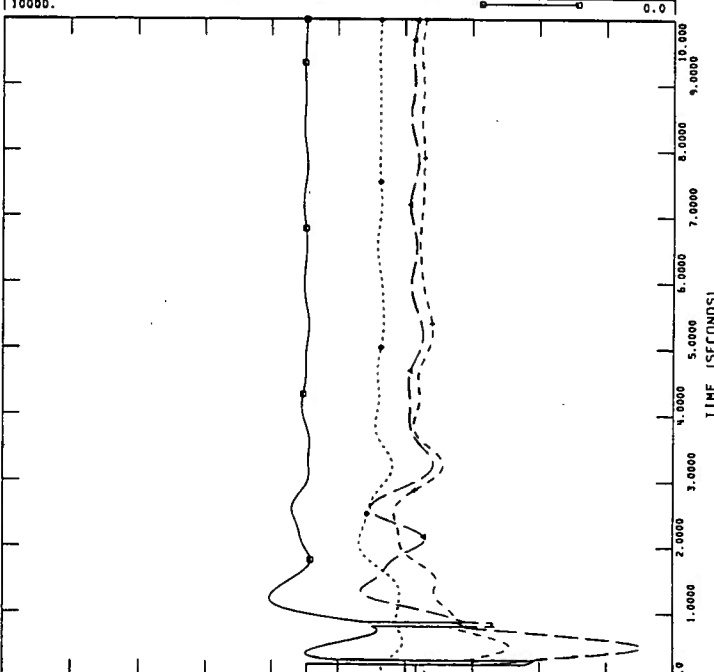
CHNL = 508: CVOLT 4327 CFARAGUT345.0077
CHNL = 636: CVOLT 3105 CLONG MTN345.0077
CHNL = 572: CVOLT 9577 CHARCY765765.0077
CHNL = 545: CVOLT 5403 CFARAGUT345.0077
CHNL = 528: CVOLT 4347 RAMAPO 345.0077



FRI, MAR 31 2000 15:58
RUN D4A PLOT 15

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS3RUND4A.OUT

CHNL = 690: CMH TOTAL EAST
CHNL = 689: CMH CENTRAL EAST
CHNL = 688: CMH UPNY TO SENY
CHNL = 687: CMH UPNY TO CONED



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RUN D4A PLOT 14

CONTINGENCY D4B

RECOVER FROM D1.SNP AND DS3.CNV

START OUTPUT DS3RUND4B.OUT

RUN TO 0.2 SECONDS PRINT 0 PLOT 3

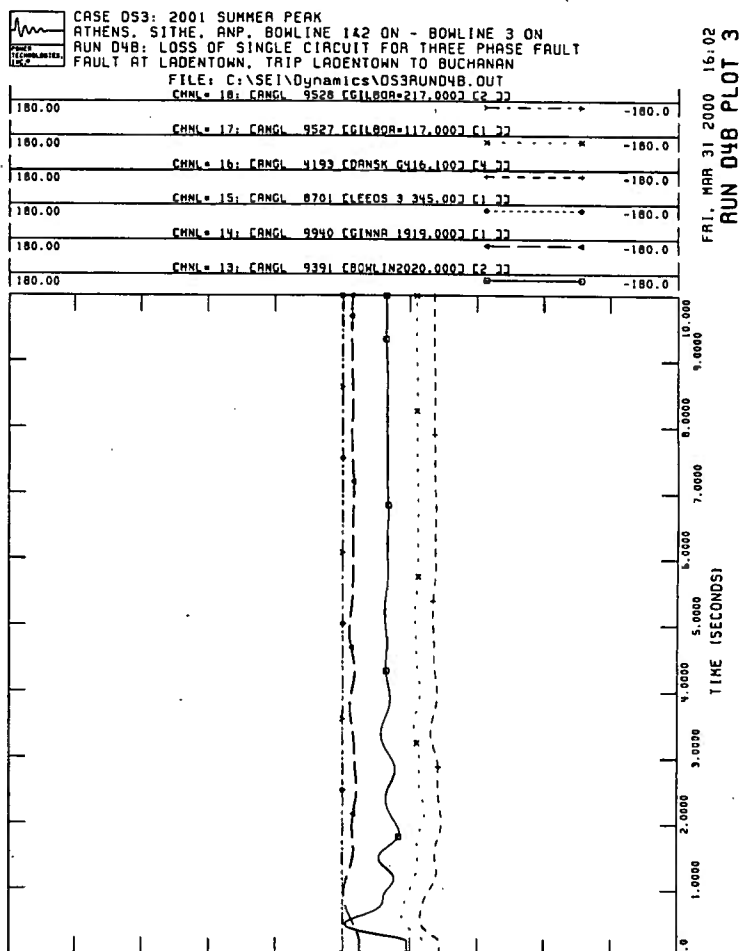
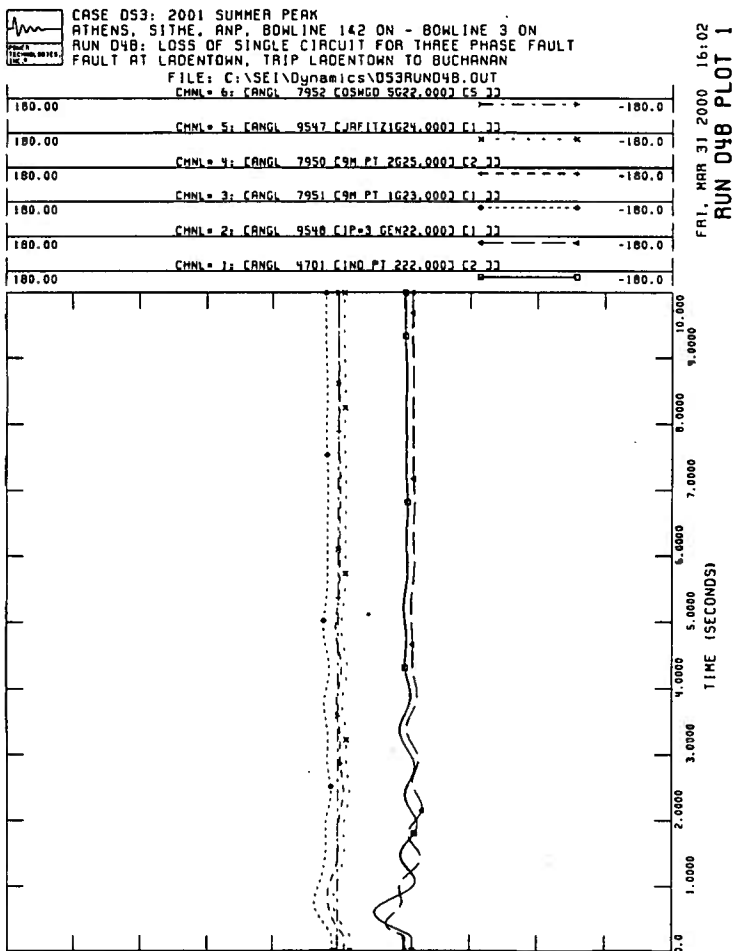
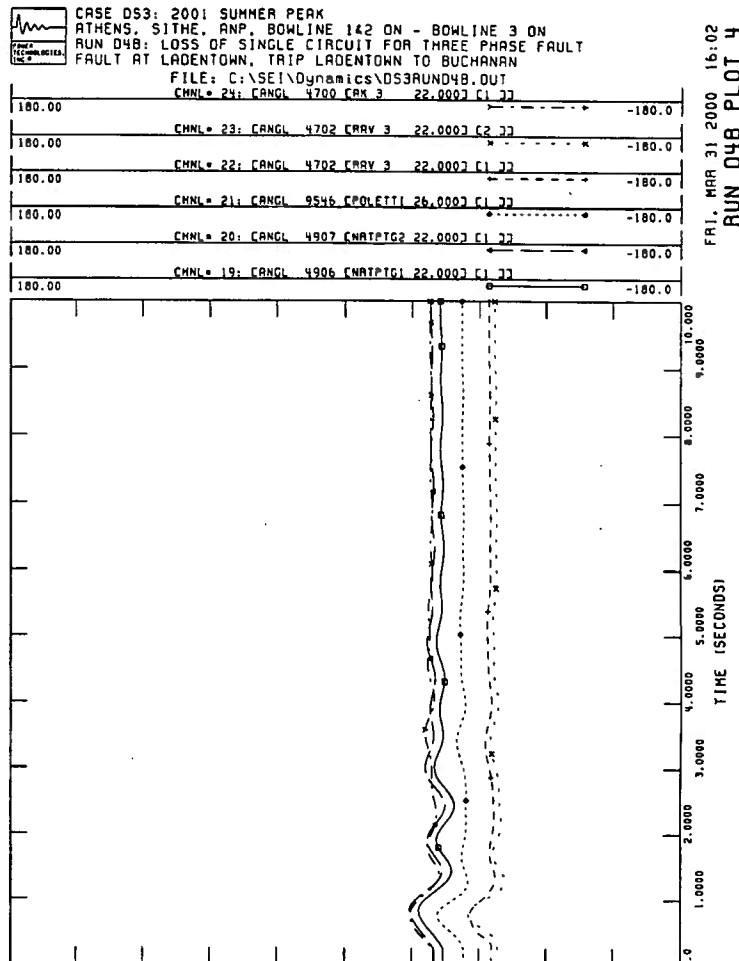
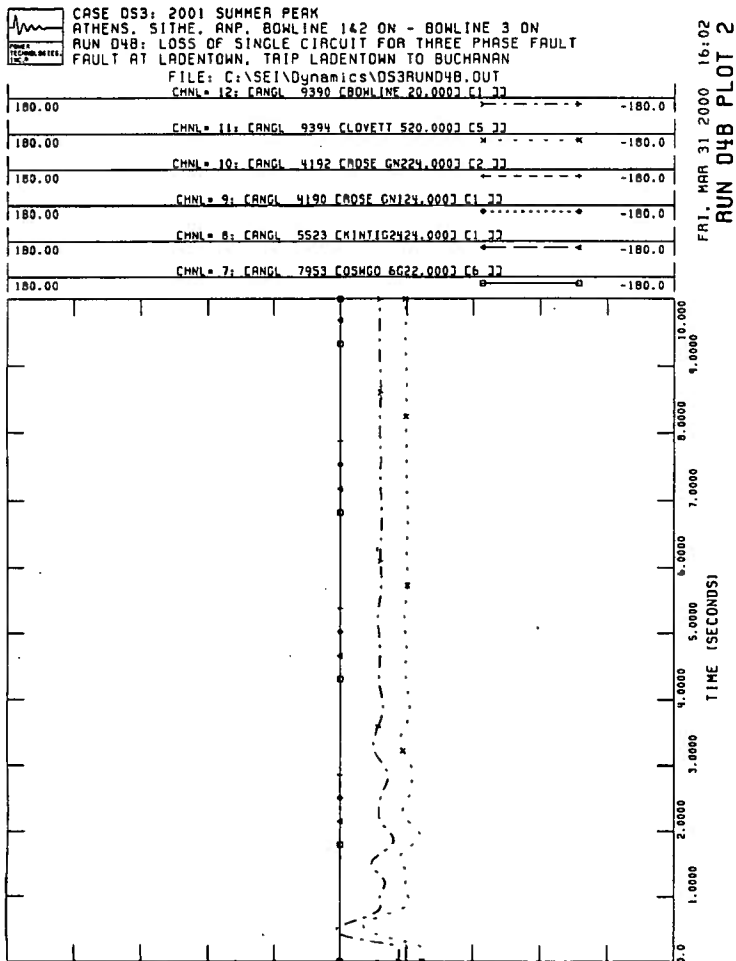
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN

RUN FOR 4 CYCLES PRINT 0 PLOT 3

TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S

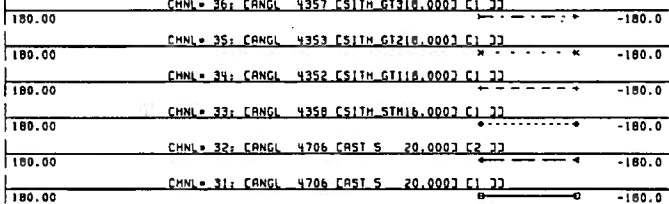
CLEAR FAULT

RUN TO 10 SECONDS PRINT 0 PLOT 3





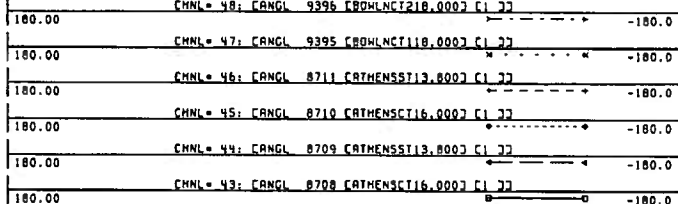
CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS3RUND48.OUT
CHNL = 36; CANGI 4357 CSITH GT10.0007 C1 JJ



FRI, MAR 31 2000 16:02
RUN D48 PLOT 6



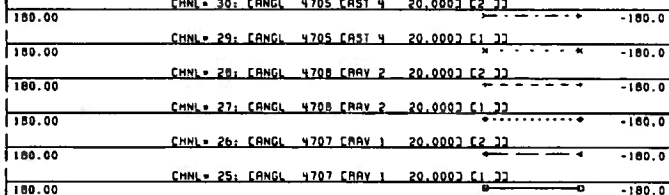
CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS3RUND48.OUT
CHNL = 48; CANGI 9396 CBOWLNCI210.0007 C1 JJ



FRI, MAR 31 2000 16:02
RUN D48 PLOT 8



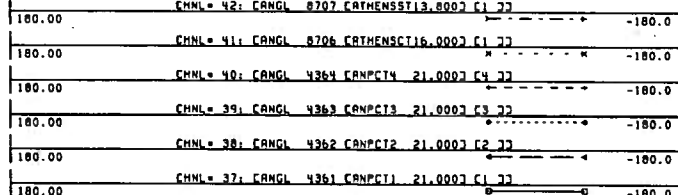
CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS3RUND48.OUT
CHNL = 30; CANGI 4705 CAST 4 20.0007 C2 JJ



FRI, MAR 31 2000 16:02
RUN D48 PLOT 5



CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS3RUND48.OUT
CHNL = 42; CANGI 8707 CATHENSCT13.0007 C1 JJ

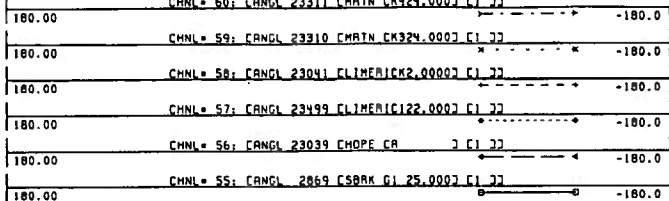


FRI, MAR 31 2000 16:02
RUN D48 PLOT 7



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS3RUN048.OUT

CHNL= 60: CANGL 23311 CMATN CK324.0007 C1 JJ

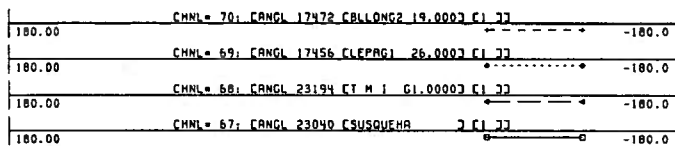


FRI, MAR 31 2000 16:02
RUN 048 PLOT 10



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS3RUN048.OUT

CHNL= 60: CANGL 23311 CMATN CK324.0007 C1 JJ

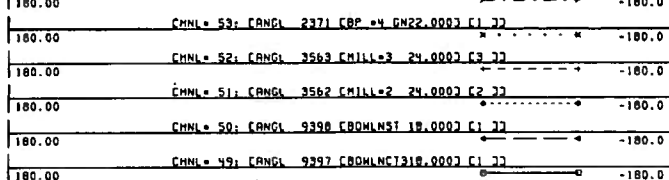


FRI, MAR 31 2000 16:02
RUN 048 PLOT 12



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS3RUN048.OUT

CHNL= 54: CANGL 3648 CPTMRA=322.0007 C3 JJ

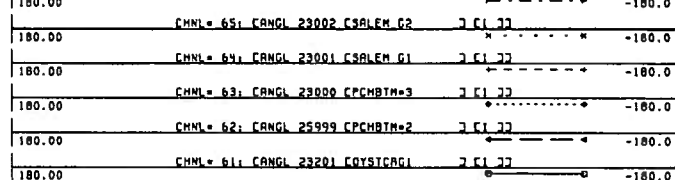


FRI, MAR 31 2000 16:02
RUN 048 PLOT 9



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DS3RUN048.OUT

CHNL= 66: CANGL 23368 CSUSA 1 24.0007 C1 JJ

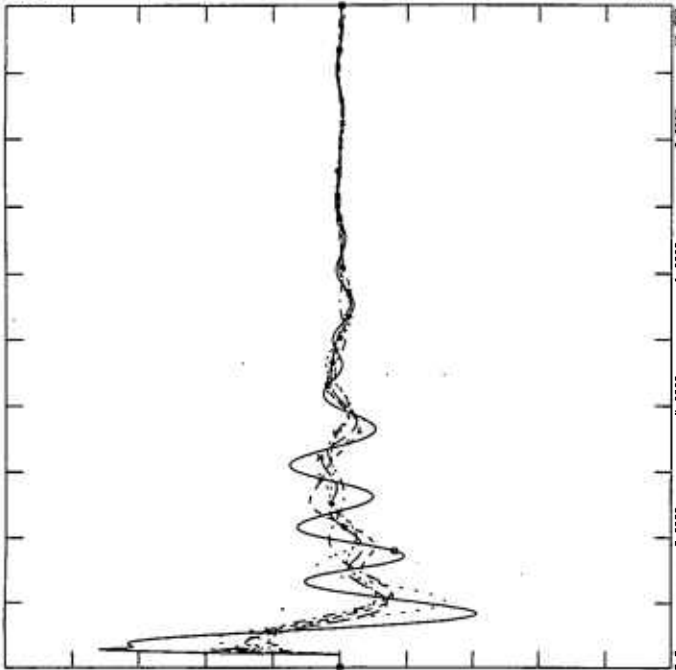


FRI, MAR 31 2000 16:02
RUN 048 PLOT 11



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\053RUN048.OUT

CHNL = 705: 60=11-CPREQ 23083 CALBUNT15500.00221
CHNL = 704: 60=11-CPREQ 4327 CFARAGUI345.00221
CHNL = 703: 60=11-CPREQ 3105 CLONG MTN345.00221
CHNL = 702: 60=11-CPREQ 9577 CHACCT765765.00221
CHNL = 701: 60=11-CPREQ 5463 CFARAGUI345.00221
CHNL = 700: 60=11-CPREQ 4347 CARKAPO 345.00221

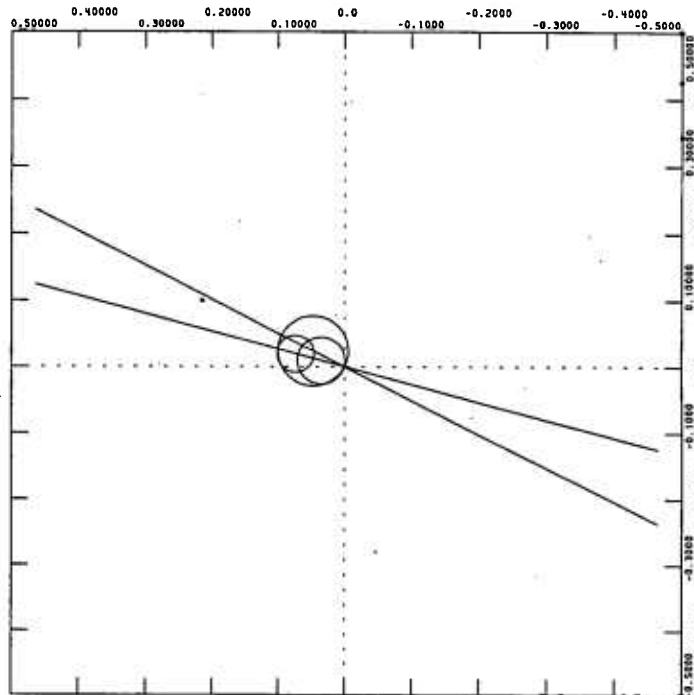


FRI, MAR 31 2000 16:02
RUN 048 PLOT 14



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\053RUN048.OUT

RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPX 17004 TO 17230 CKT 13

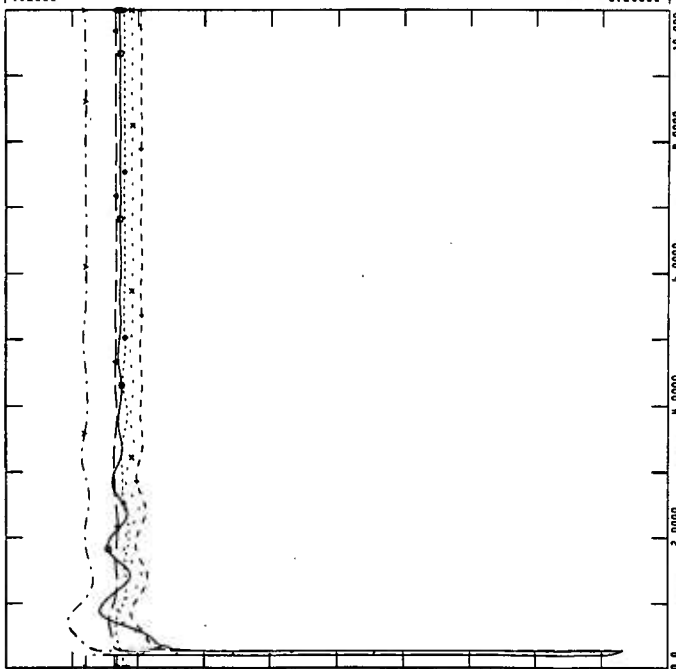


FRI, MAR 31 2000 16:02
RUN 048 PLOT 15



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\053RUN048.OUT

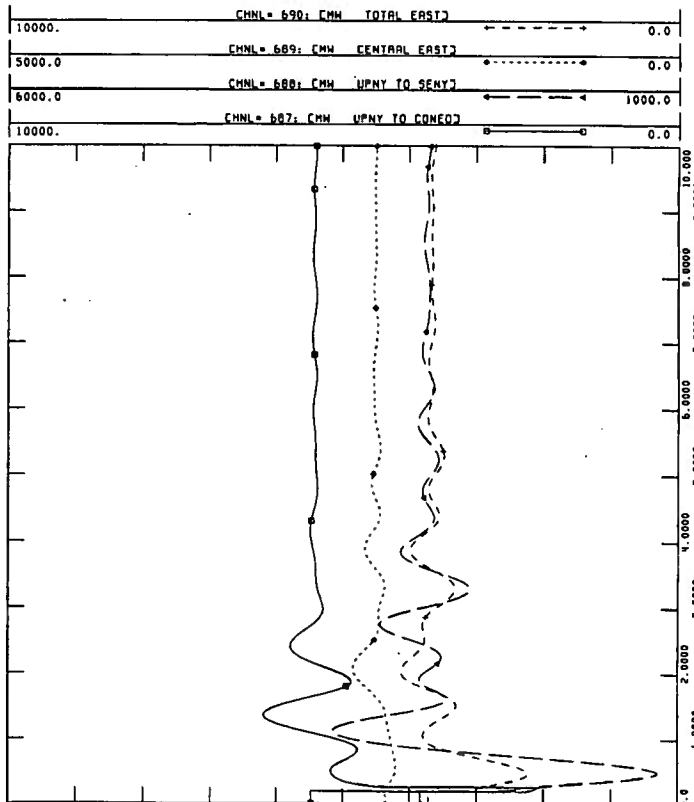
CHNL = 651: CVOLT 23083 CALBUNT15500.00221
CHNL = 508: CVOLT 4327 CFARAGUI345.00221
CHNL = 636: CVOLT 3105 CLONG MTN345.00221
CHNL = 572: CVOLT 9577 CHACCT765765.00221
CHNL = 545: CVOLT 5463 CFARAGUI345.00221
CHNL = 526: CVOLT 4347 CARKAPO 345.00221



FRI, MAR 31 2000 16:02
RUN 048 PLOT 13



CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\053RUN048.OUT

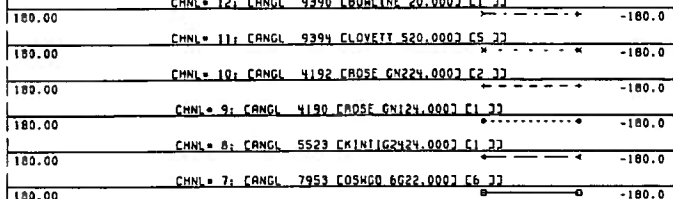


FRI, MAR 31 2000 16:02
RUN 048 PLOT 16

CONTINGENCY D4C

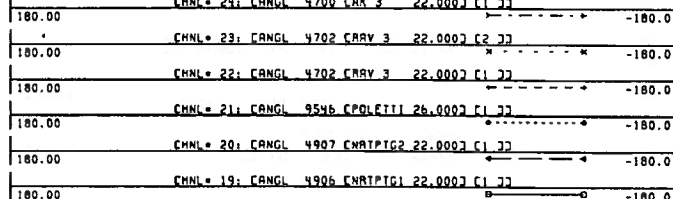
RECOVER FROM D1.SNP AND DS3.CNV
START OUTPUT DS3RUND4C.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4312 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN N
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4312 TO BUS 4317 CKT 1 / TRIP BUCHANAN-EASTVIEW
TRIP BRANCH FROM BUS 4317 TO BUS 4428 CKT 1 / TRIP EASTVIEW XFMR
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT
CHNL= 12: CANGL 9390 CROHLINE 20.0007 C1 JJ



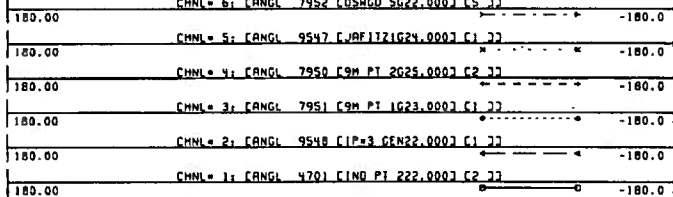
FRI, MAR 31 2000 16:02
RUN D4C PLOT 2

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT
CHNL= 24: CANGL 4709 CAY 3 22.0007 C1 JJ



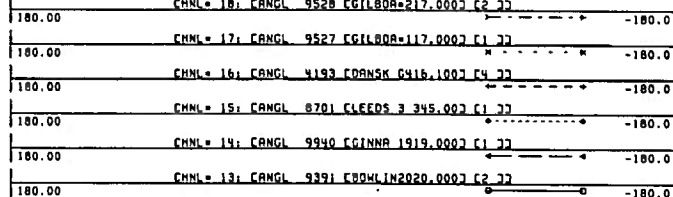
FRI, MAR 31 2000 16:02
RUN D4C PLOT 4

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT
CHNL= 6: CANGL 7952 CROHCO 5022.0007 C5 JJ



FRI, MAR 31 2000 16:02
RUN D4C PLOT 1

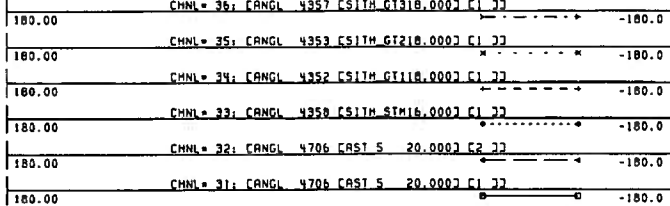
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT
CHNL= 18: CANGL 9528 CGL180A=217.0007 C2 JJ



FRI, MAR 31 2000 16:02
RUN D4C PLOT 3



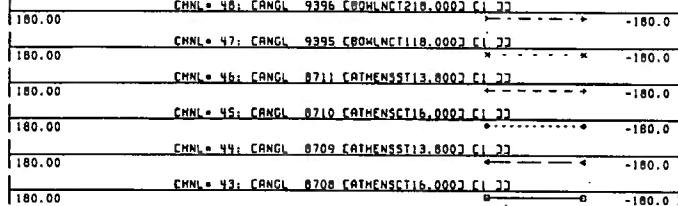
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT
CHNL = 35; CANGL 4353 CSITH GT218.0007 C1 JJ



FRI, MAR 31 2000 16:02
RUN D4C PLOT 6



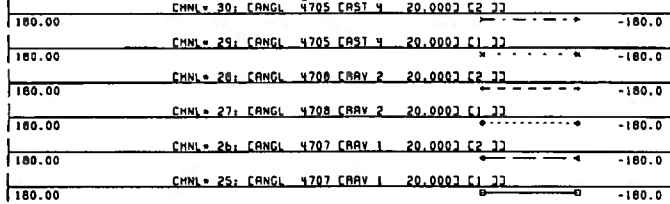
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT
CHNL = 48; CANGL 9396 CBOWLNCT118.0007 C1 JJ



FRI, MAR 31 2000 16:02
RUN D4C PLOT 8



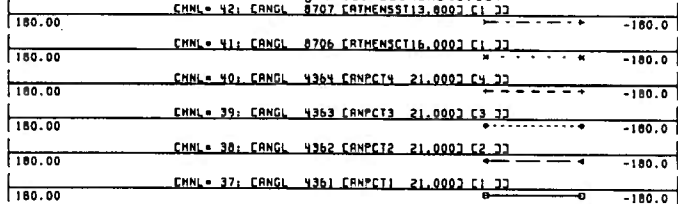
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT
CHNL = 30; CANGL 4705 CAS1 4 20.0007 C2 JJ



FRI, MAR 31 2000 16:02
RUN D4C PLOT 5



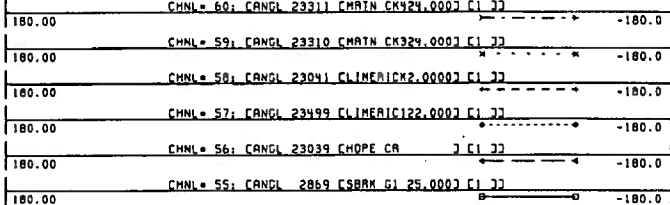
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT
CHNL = 42; CANGL 8707 CATHENSST13.0007 C1 JJ



FRI, MAR 31 2000 16:02
RUN D4C PLOT 7



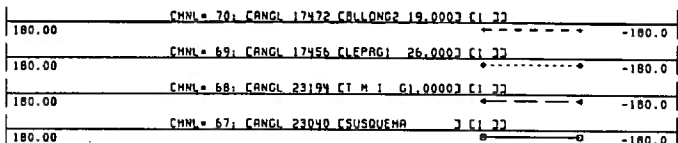
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT
CHNL= 60: CANGL 23311 CMATN CK324.0000 C1 JJ



FRI, MAR 31 2000 16:02
RUN D4C PLOT 10



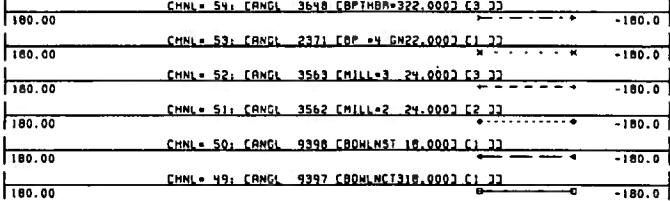
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT



FRI, MAR 31 2000 16:02
RUN D4C PLOT 12



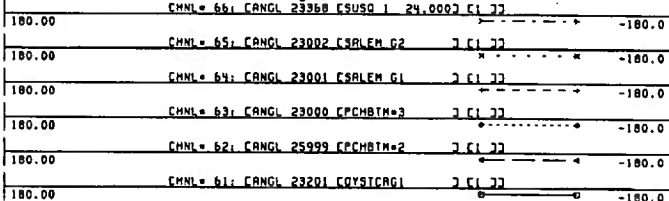
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT
CHNL= 54: CANGL 3648 CPTMBA=322.0000 C3 JJ



FRI, MAR 31 2000 16:02
RUN D4C PLOT 9



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS3RUND4C.OUT
CHNL= 66: CANGL 23358 CSUSQ 1 24.0000 C1 JJ



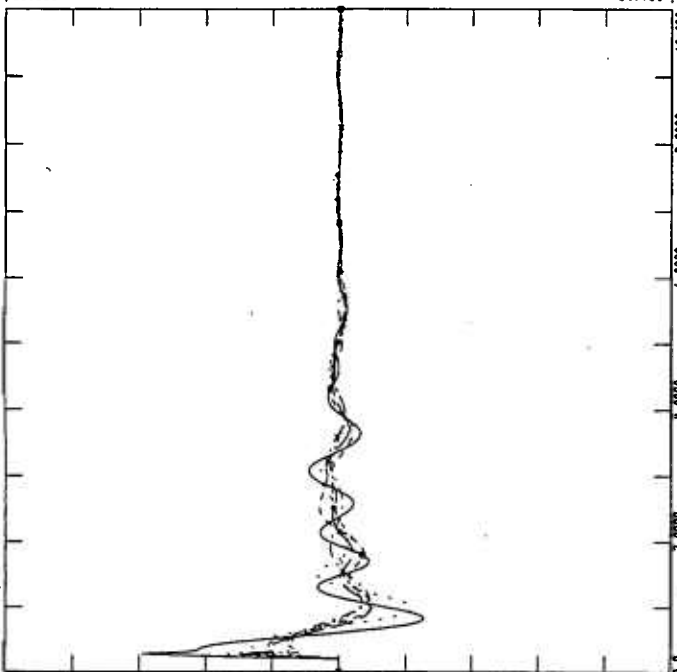
FRI, MAR 31 2000 16:02
RUN D4C PLOT 11



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamics\DS3RUND4C.OUT
CHNL = 705: 60=11-CFREQ 23003 CALBART(5500.0033)

60.250	CHNL = 704: 60=11-CFREQ 4327 CFARAGUT(345.0033)	59.750
60.250	CHNL = 703: 60=11-CFREQ 3105 CLONG MTN(345.0033)	59.750
60.250	CHNL = 702: 60=11-CFREQ 9577 CMARCY(765765.0033)	59.750
60.250	CHNL = 701: 60=11-CFREQ 5403 CFARAGUT(345.0033)	59.750
60.250	CHNL = 700: 60=11-CFREQ 4347 CARMARO 345.0033	59.750



FRI, MAR 31 2000 16:02
RUN D4C PLOT 14

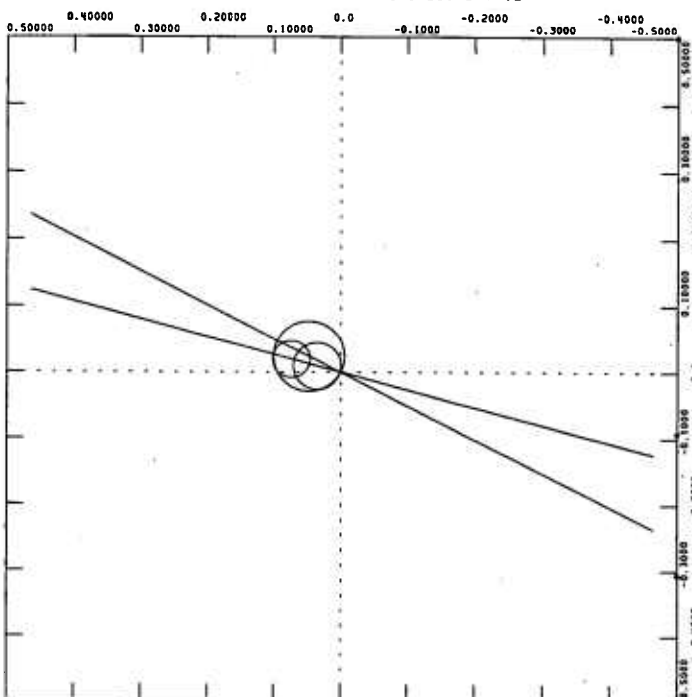


CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamics\DS3RUND4C.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13



CHNL = 696: CAPPX 17004 TO 17230 CKT 13

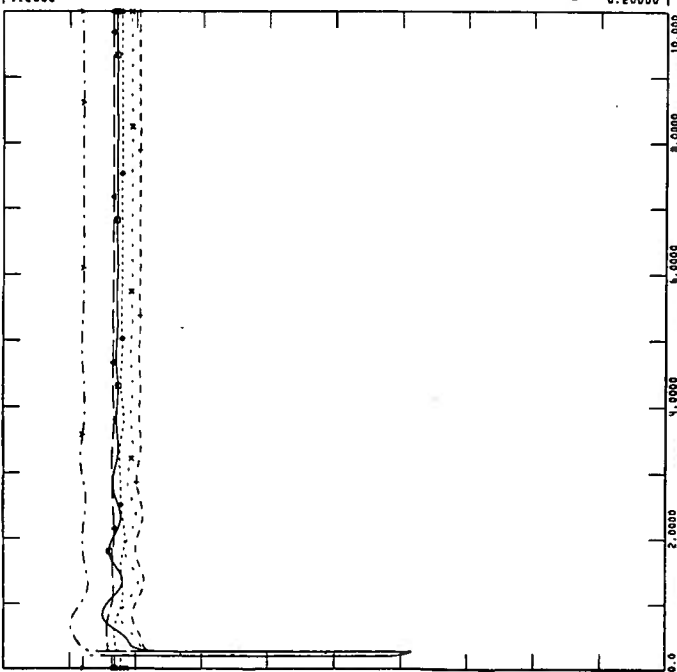
FRI, MAR 31 2000 16:02
RUN D4C PLOT 15



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamics\DS3RUND4C.OUT
CHNL = 651: CVOLT 23003 CALBART(5500.0033)

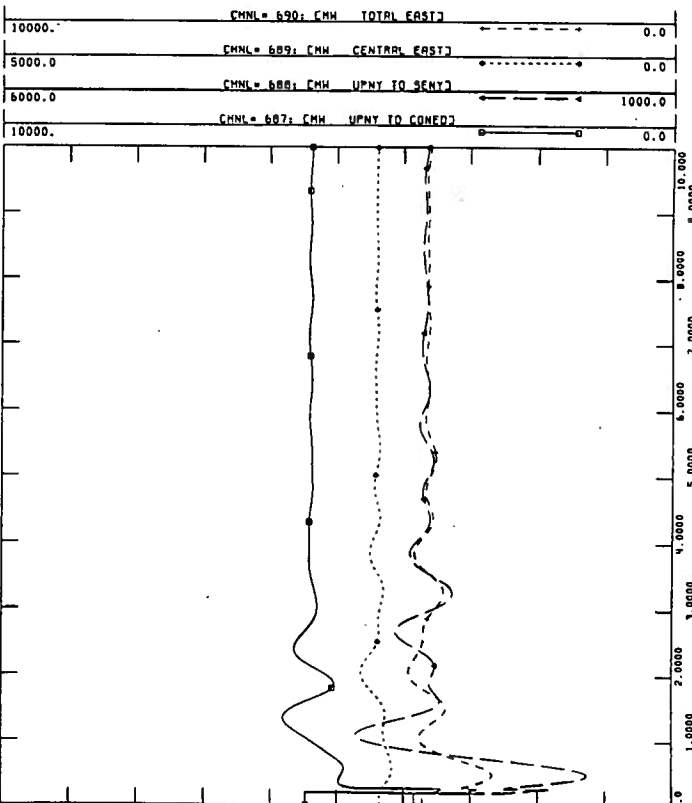
1.2000	CHNL = 508: CVOLT 4327 CFARAGUT(345.0033)	0.20000
1.2000	CHNL = 636: CVOLT 3105 CLONG MTN(345.0033)	0.20000
1.2000	CHNL = 572: CVOLT 9577 CMARCY(765765.0033)	0.20000
1.2000	CHNL = 545: CVOLT 5403 CFARAGUT(345.0033)	0.20000
1.2000	CHNL = 528: CVOLT 4347 CARMARO 345.0033	0.20000



FRI, MAR 31 2000 16:02
RUN D4C PLOT 13



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamics\DS3RUND4C.OUT



FRI, MAR 31 2000 16:02
RUN D4C PLOT 15

CONTINGENCY D5A

RECOVER FROM D1.SNP AND DS3.CNV

START OUTPUT DS3RUND5A.OUT

RUN TO 0.2 SECONDS PRINT 0 PLOT 3

APPLY FAULT BUS 4313 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN S

RUN FOR 4 CYCLES PRINT 0 PLOT 3

TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 1 / TRIP BUCHANAN S-MILLWOOD 1

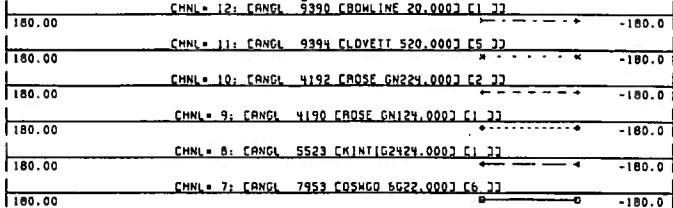
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 2 / TRIP BUCHANAN S-MILLWOOD 2

CLEAR FAULT

RUN TO 10 SECONDS PRINT 0 PLOT 3



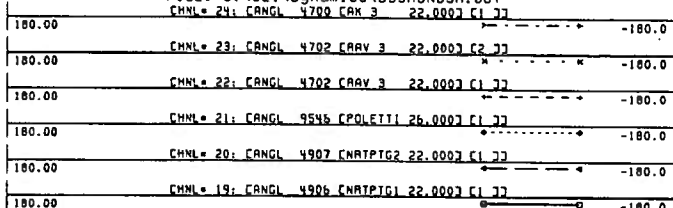
CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3A\RUNDSA.OUT
CHNL= 12: CANGI 9990 CROWLINE 20.0000 C1 JJ



FRI, MAR 31 2000 16:02
RUN DSA PLOT 2



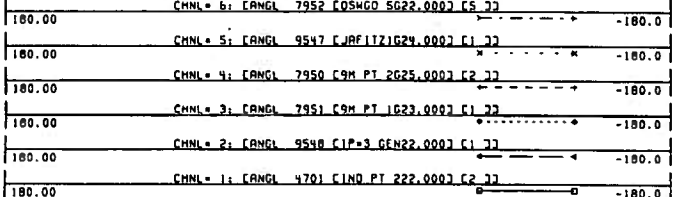
CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3A\RUNDSA.OUT
CHNL= 24: CANGI 4700 CAY 3 22.0000 C1 JJ



FRI, MAR 31 2000 16:02
RUN DSA PLOT 4



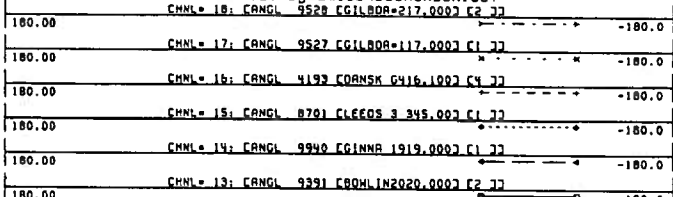
CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3A\RUNDSA.OUT
CHNL= 6: CANGI 7952 COSHGO 5622.0000 C5 JJ



FRI, MAR 31 2000 16:02
RUN DSA PLOT 1



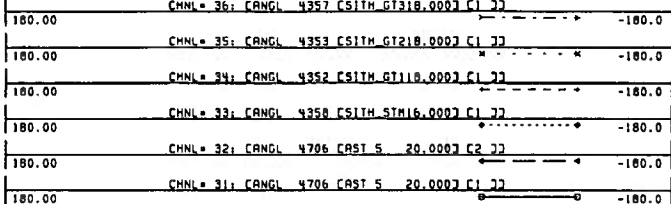
CASE D53: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3A\RUNDSA.OUT
CHNL= 18: CANGI 9528 CGILBDA=217.0000 C2 JJ



FRI, MAR 31 2000 16:02
RUN DSA PLOT 3



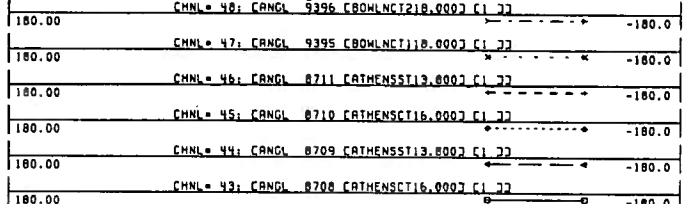
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3\RUNDSA.OUT
CHNL = 36; CANGL 4357 CSITH GT18.0007 C1 JJ



FRI, MAR 31 2000 16:02
RUN DSA PLOT 6



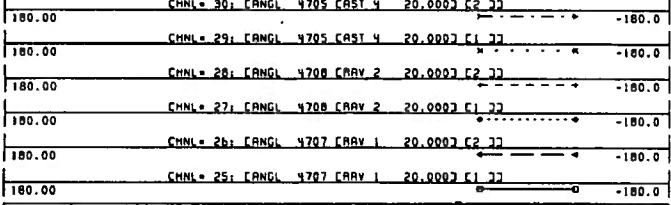
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3\RUNDSA.OUT
CHNL = 48; CANGL 9396 CBOWLNC1218.0007 C1 JJ



FRI, MAR 31 2000 16:02
RUN DSA PLOT 8



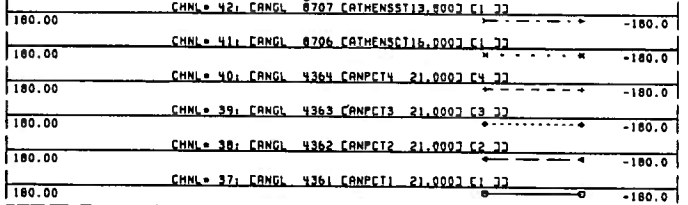
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3\RUNDSA.OUT
CHNL = 39; CANGL 4705 CAST 4 20.0007 C2 JJ



FRI, MAR 31 2000 16:02
RUN DSA PLOT 5



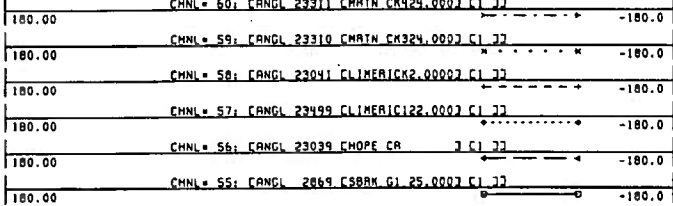
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3\RUNDSA.OUT
CHNL = 42; CANGL 8707 CATHENSST13.8007 C1 JJ



FRI, MAR 31 2000 16:02
RUN DSA PLOT 7



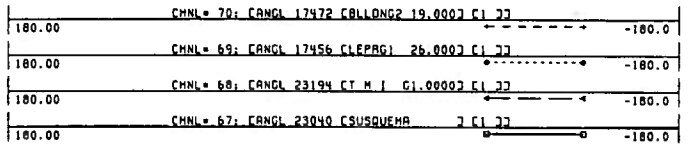
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3RUNDSA.OUT
CHNL = 60: CANCEL 23311 CHATN CM324.0000 C1 JJ



FRI, MAR 31 2000 16:02
RUN DSA PLOT 10



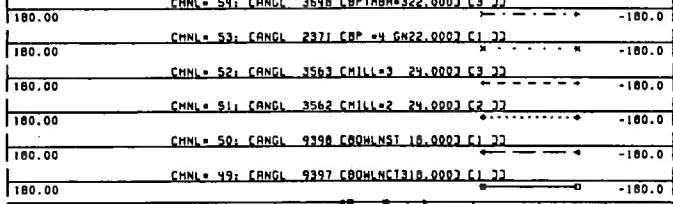
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3RUNDSA.OUT



FRI, MAR 31 2000 16:02
RUN DSA PLOT 12



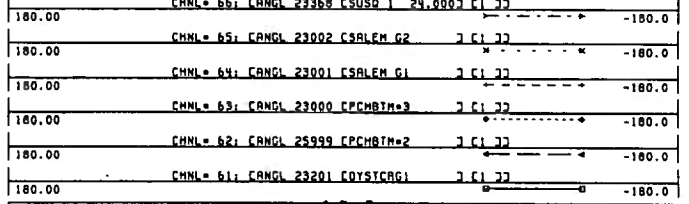
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3RUNDSA.OUT
CHNL = 54: CANCEL 3568 CAPTMBR=322.0000 C3 JJ



FRI, MAR 31 2000 16:02
RUN DSA PLOT 9



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DS3RUNDSA.OUT
CHNL = 66: CANCEL 23368 CSUSR 1 24.0000 C1 JJ



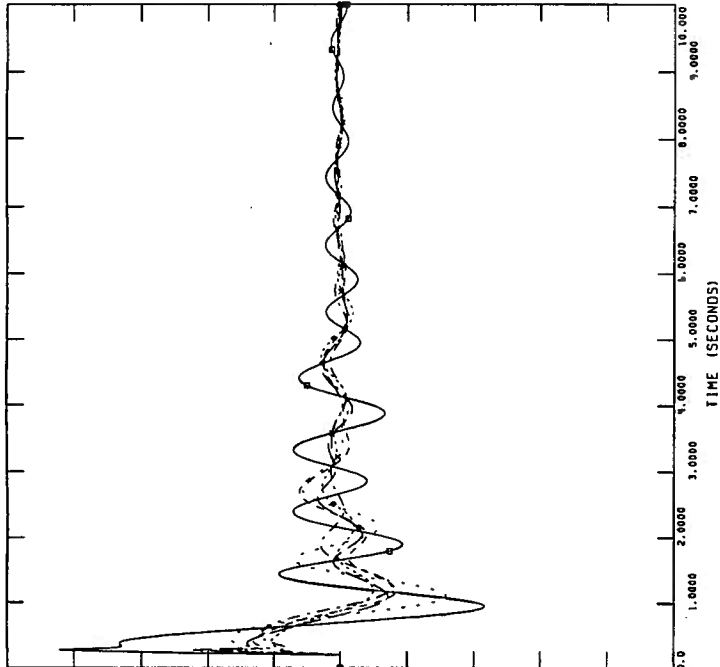
FRI, MAR 31 2000 16:02
RUN DSA PLOT 11



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2

FILE: C:\SEI\Dynamic\DS3RUND5A.OUT
CHNL= 709: 60=(1-CFREQ 23003 CALGUNT15500.0077)

60.250	CHNL= 709: 60=(1-CFREQ 23003 CALGUNT15500.0077)	59.750
60.250	CHNL= 709: 60=(1-CFREQ 23003 CALGUNT15500.0077)	59.750
60.250	CHNL= 709: 60=(1-CFREQ 23003 CALGUNT15500.0077)	59.750
60.250	CHNL= 709: 60=(1-CFREQ 23003 CALGUNT15500.0077)	59.750
60.250	CHNL= 709: 60=(1-CFREQ 23003 CALGUNT15500.0077)	59.750
60.250	CHNL= 709: 60=(1-CFREQ 23003 CALGUNT15500.0077)	59.750
60.250	CHNL= 709: 60=(1-CFREQ 23003 CALGUNT15500.0077)	59.750
60.250	CHNL= 709: 60=(1-CFREQ 23003 CALGUNT15500.0077)	59.750



FRI, MAR 31 2000 16:02
RUN D3A PLOT 14

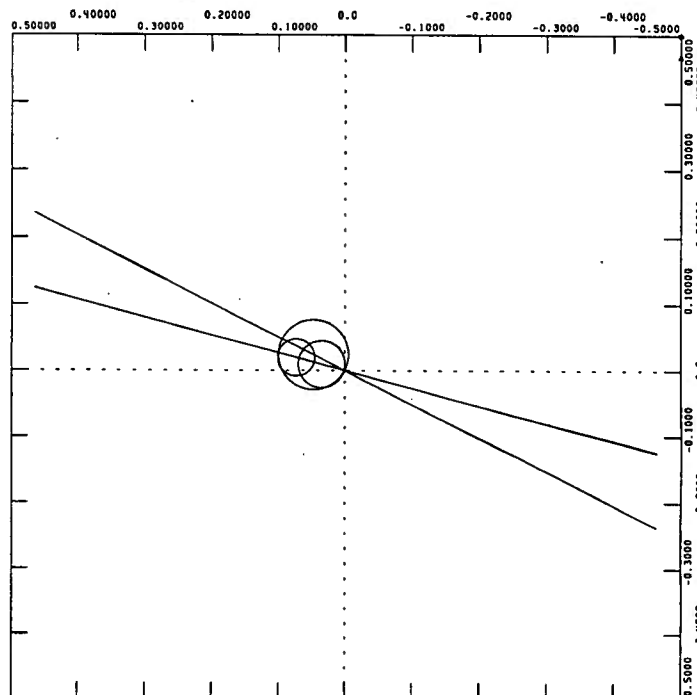


CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2

FILE: C:\SEI\Dynamic\DS3RUND5A.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL= 697: CAPPX 17004 TO 17230 CKT 13



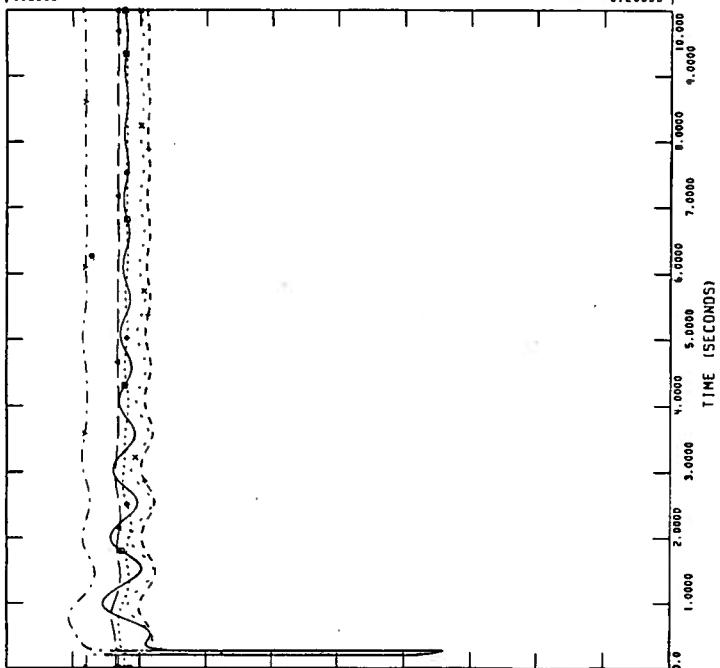
FRI, MAR 31 2000 16:02
RUN D3A PLOT 15



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2

FILE: C:\SEI\Dynamic\DS3RUND5A.OUT
CHNL= 651: CVOLT 23003 CALGUNT15500.0077

1.2000	CHNL= 651: CVOLT 23003 CALGUNT15500.0077	0.20000
1.2000	CHNL= 651: CVOLT 23003 CALGUNT15500.0077	0.20000
1.2000	CHNL= 651: CVOLT 23003 CALGUNT15500.0077	0.20000
1.2000	CHNL= 651: CVOLT 23003 CALGUNT15500.0077	0.20000
1.2000	CHNL= 651: CVOLT 23003 CALGUNT15500.0077	0.20000
1.2000	CHNL= 651: CVOLT 23003 CALGUNT15500.0077	0.20000
1.2000	CHNL= 651: CVOLT 23003 CALGUNT15500.0077	0.20000
1.2000	CHNL= 651: CVOLT 23003 CALGUNT15500.0077	0.20000

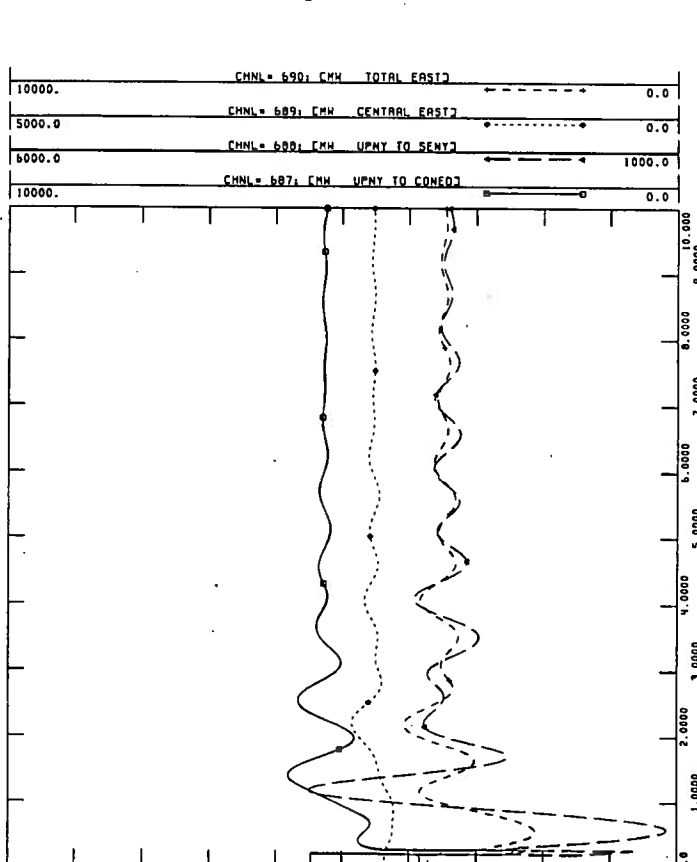


FRI, MAR 31 2000 16:02
RUN D3A PLOT 16



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2

FILE: C:\SEI\Dynamic\DS3RUND5A.OUT



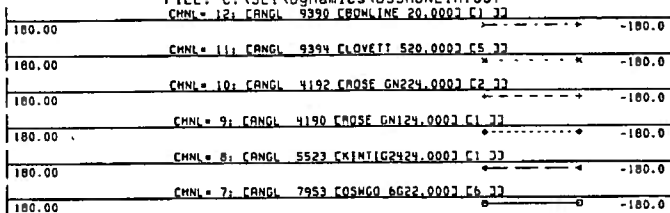
FRI, MAR 31 2000 16:02
RUN D3A PLOT 17

CONTINGENCY E1A

RECOVER FROM D1.SNP AND DS3.CNV
START OUTPUT DS3RUNE1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



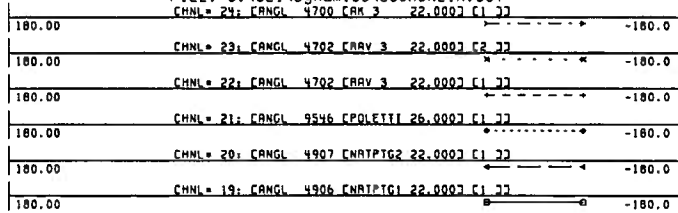
CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DS3AUNE1A.OUT
CHNL= 12: CANGL 9390 (BOWLINE 20.000) C1 JJ



FRI, MAR 31 2000 16:07
RUN E1A PLOT 2



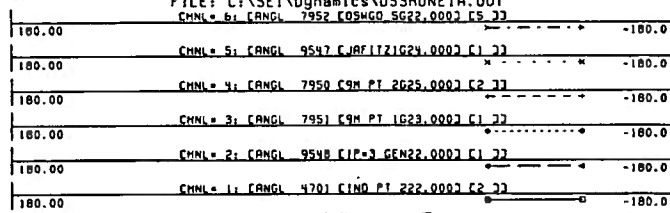
CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DS3AUNE1A.OUT
CHNL= 24: CANGL 4700 CAR 3 22.000 C1 JJ



FRI, MAR 31 2000 16:07
RUN E1A PLOT 4



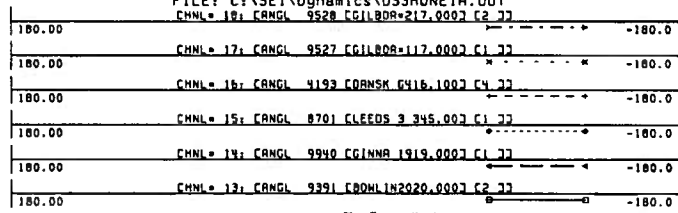
CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DS3AUNE1A.OUT
CHNL= 6: CANGL 7952 (OSMGO 5622.000) C5 JJ



FRI, MAR 31 2000 16:07
RUN E1A PLOT 1



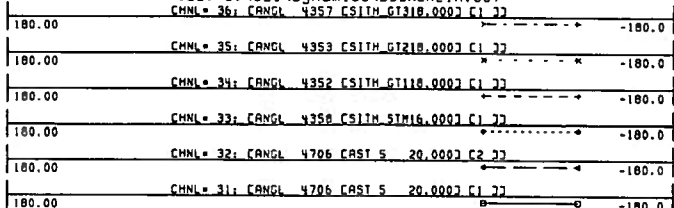
CASE 053: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DS3AUNE1A.OUT
CHNL= 18: CANGL 9528 (GILBOR=217.000) C2 JJ



FRI, MAR 31 2000 16:07
RUN E1A PLOT 3



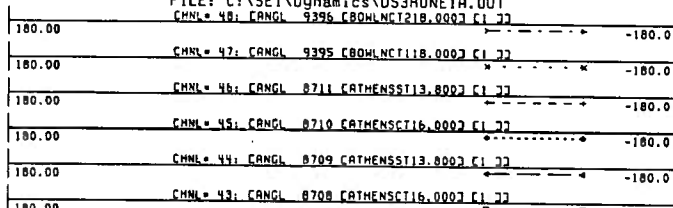
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\odynamics\DS3ARUNE1A.OUT
CHNL = 36: CANGL 4357 CSITH G1318.0002 C1 JJ



FRI, MAR 31 2000 16:07
RUN E1A PLOT 6



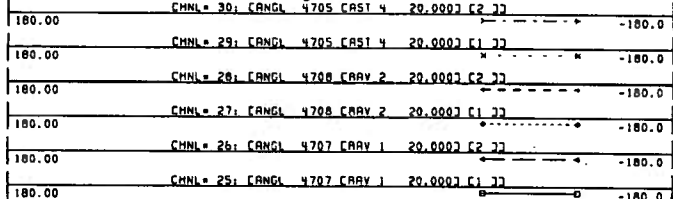
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\odynamics\DS3ARUNE1A.OUT
CHNL = 46: CANGL 9395 CBOWLNCT18.0002 C1 JJ



FRI, MAR 31 2000 16:07
RUN E1A PLOT 8



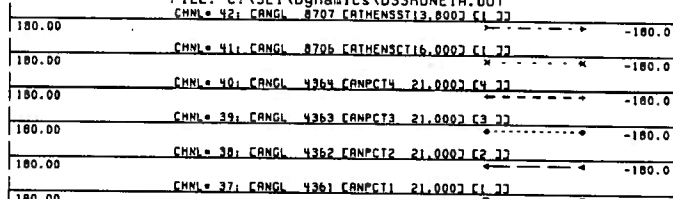
CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\odynamics\DS3ARUNE1A.OUT
CHNL = 30: CANGL 4705 CAS1 4 20.0002 C2 JJ



FRI, MAR 31 2000 16:07
RUN E1A PLOT 5

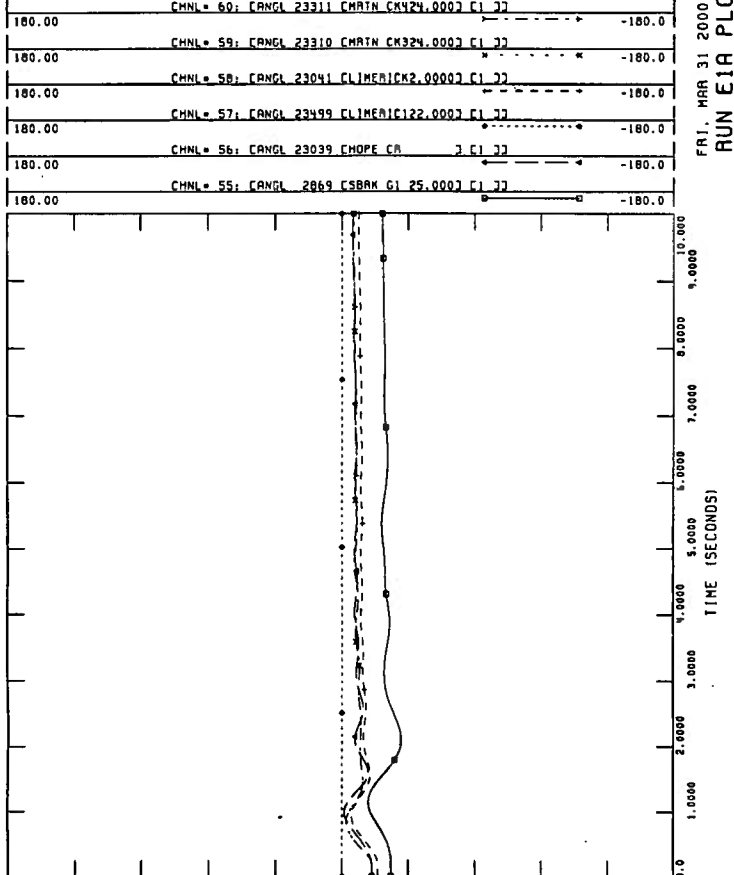


CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\odynamics\DS3ARUNE1A.OUT
CHNL = 42: CANGL 8707 CATHENSCT13.0002 C1 JJ

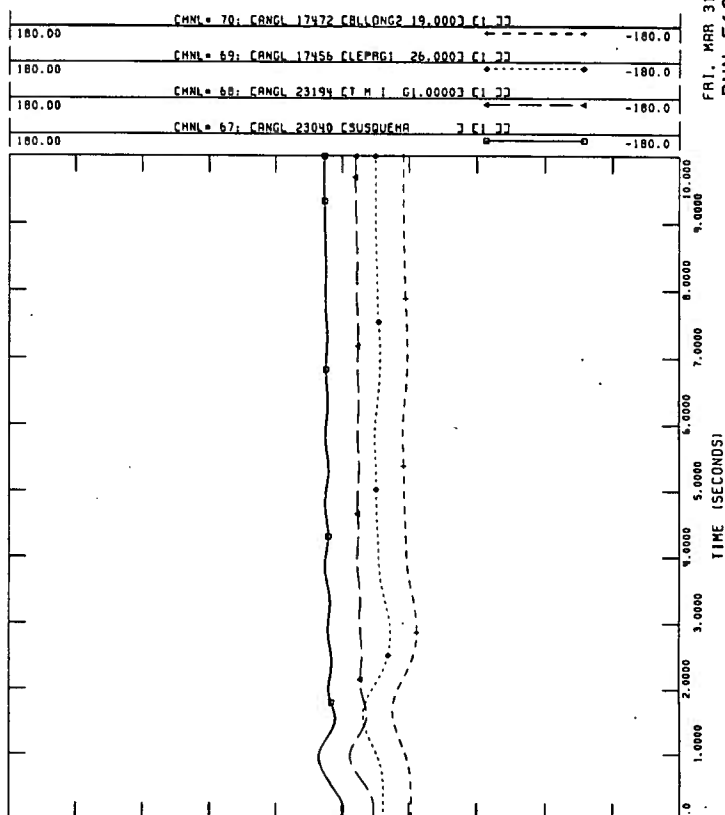


FRI, MAR 31 2000 16:07
RUN E1A PLOT 7

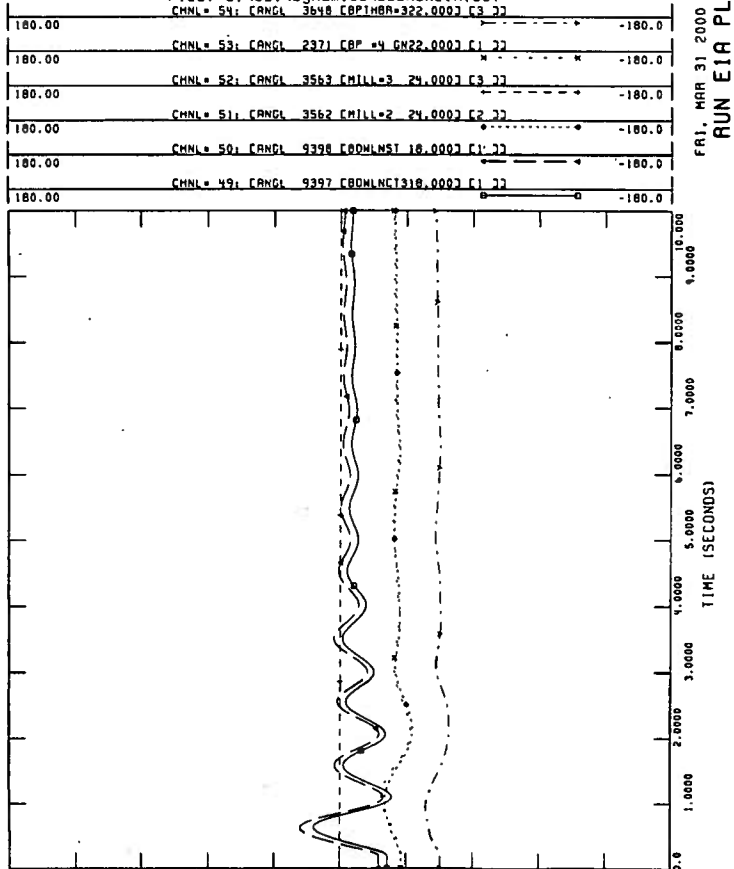
CASE DS3: 2001 SUMMER PEAK
 ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\Dynamic\DS3RUNE1A.OUT
 CHNL = 60: CANG1 23311 CMATN CM424.0000 C1 J7



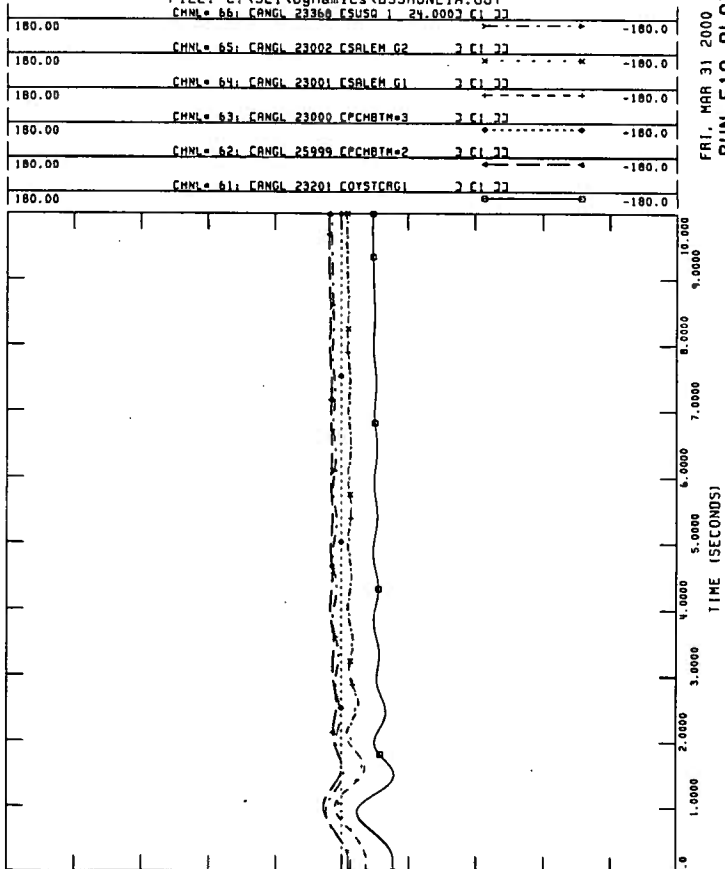
CASE DS3: 2001 SUMMER PEAK
 ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\Dynamic\DS3RUNE1A.OUT



CASE DS3: 2001 SUMMER PEAK
 ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\Dynamic\DS3RUNE1A.OUT
 CHNL = 54: CANG1 3548 CAPTHER322.0000 C3 J7



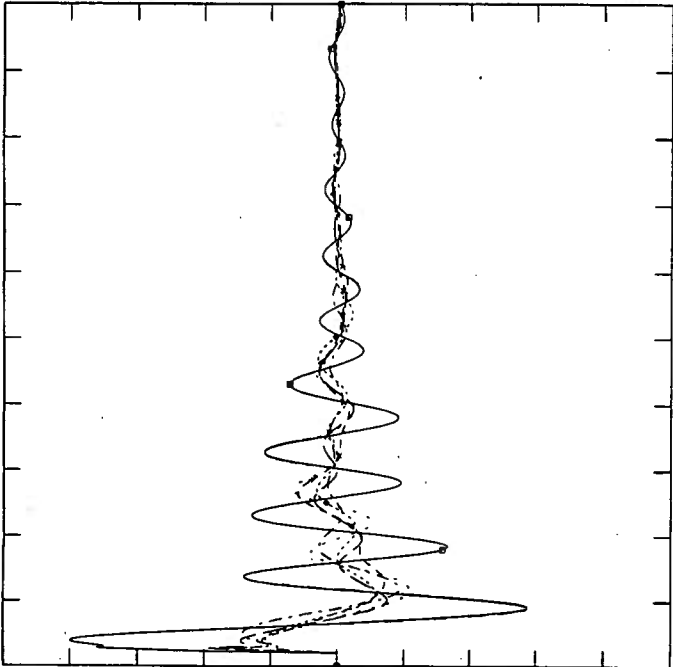
CASE DS3: 2001 SUMMER PEAK
 ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\Dynamic\DS3RUNE1A.OUT
 CHNL = 66: CANG1 23368 CSUSQ 1 24.0000 C1 J7





CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LAONTWN AND BUCH-RAHAPO
FILE: C:\SEIDynamics\DS3RUNE1A.OUT
CHNL = 705: 60=(1)*CFREQ 23003 CALBWT(15500.0033)

60.250 CHNL = 704: 60=(1)*CFREQ 4327 CFARAGUT(345.0033) 59.750
60.250 CHNL = 703: 60=(1)*CFREQ 3105 CLONG MTN(345.0033) 59.750
60.250 CHNL = 702: 60=(1)*CFREQ 9577 CMARCY(765765.0033) 59.750
60.250 CHNL = 701: 60=(1)*CFREQ 5403 CFARAS(345345.0033) 59.750
60.250 CHNL = 700: 60=(1)*CFREQ 4347 CFARAP(345.0033) 59.750

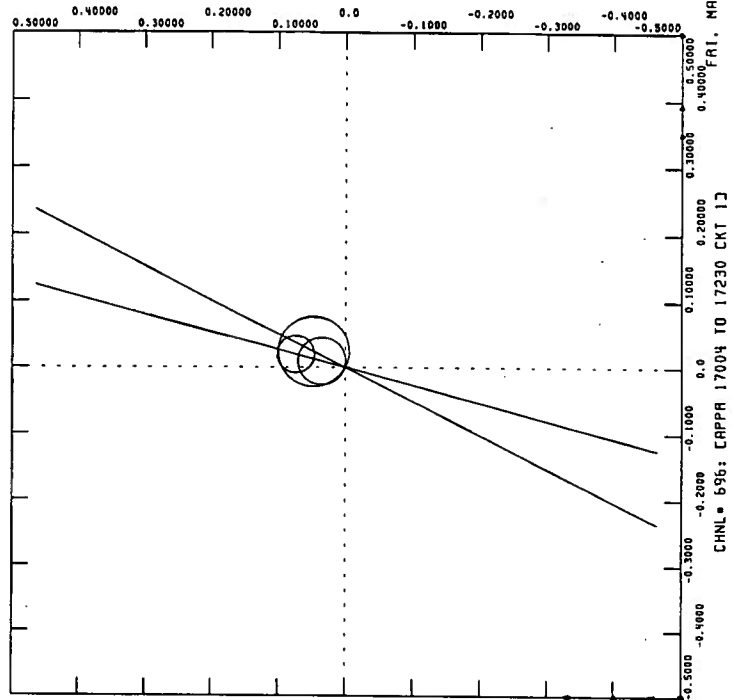


FRI, MAR 31 2000 16:07
RUN E1A PLOT 14



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LAONTWN AND BUCH-RAHAPO
FILE: C:\SEIDynamics\DS3RUNE1A.OUT

RELAY: DISTR
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

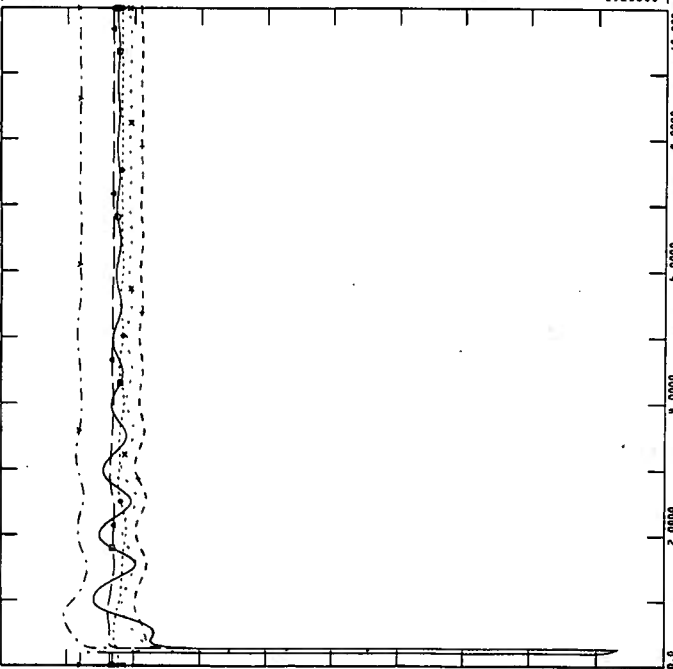


FRI, MAR 31 2000 16:07
RUN E1A PLOT 16



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LAONTWN AND BUCH-RAHAPO
FILE: C:\SEIDynamics\DS3RUNE1A.OUT
CHNL = 651: CVOLT 23003 CALBWT(15500.0033)

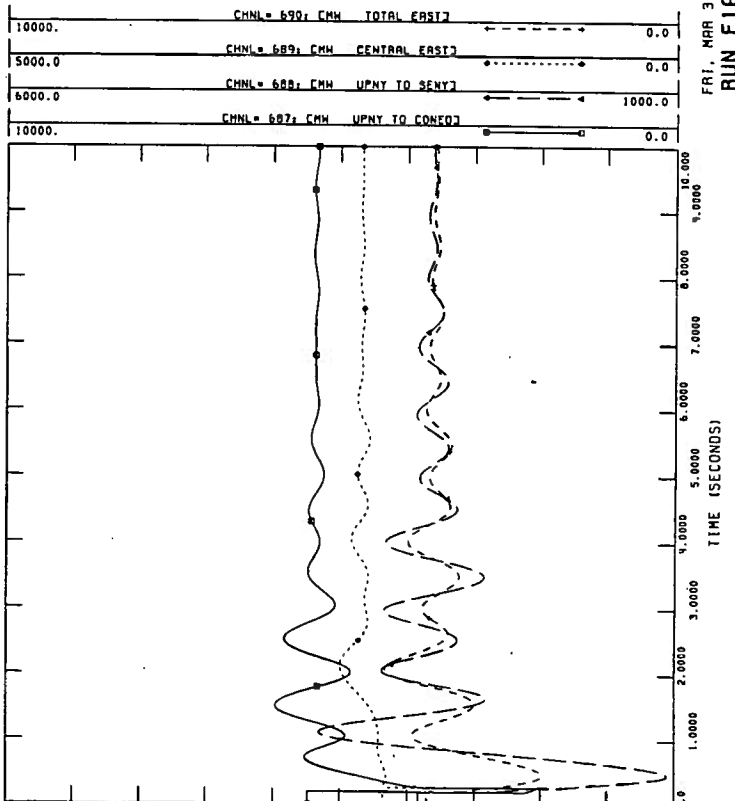
1.2000 CHNL = 508: CVOLT 4327 CFARAGUT(345.0033) 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MTN(345.0033) 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCY(765765.0033) 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARAS(345345.0033) 0.20000
1.2000 CHNL = 526: CVOLT 4347 CFARAP(345.0033) 0.20000



FRI, MAR 31 2000 16:07
RUN E1A PLOT 13



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LAONTWN AND BUCH-RAHAPO
FILE: C:\SEIDynamics\DS3RUNE1A.OUT



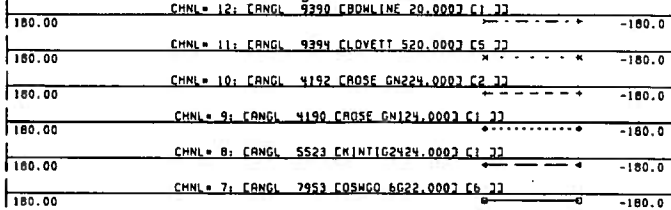
FRI, MAR 31 2000 16:07
RUN E1A PLOT 15

CONTINGENCY E2A

```
RECOVER FROM D1.SNP AND DS3.CNV
START OUTPUT DS3RUNE2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0  -2e+009 MVA  / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DISCONNECT BUS 4347                               / DISCONNECT RAMAPO SUBSTATION
DROP GENERATOR 1 AT BUS 4352                       / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4353                       / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4357                       / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4358                       / TRIP SITHE ST
DROP GENERATOR 1 AT BUS 4361                       / TRIP ANP CT
DROP GENERATOR 2 AT BUS 4362                       / TRIP ANP CT
DROP GENERATOR 3 AT BUS 4363                       / TRIP ANP CT
DROP GENERATOR 4 AT BUS 4364                       / TRIP ANP ST
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3
```


CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

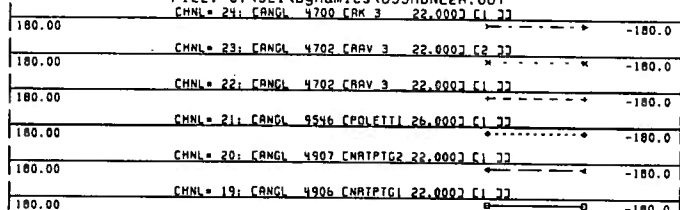
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL= 12: CANGI 9390 CRODLINE 20.0007 C1 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 2

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

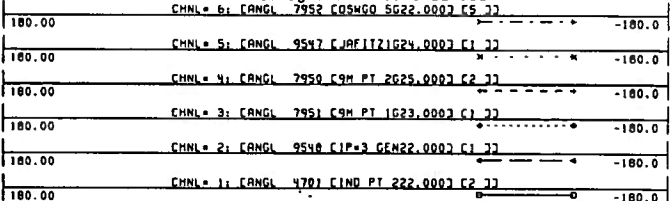
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL= 23: CANGI 4702 CARV 3 22.0007 C2 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 4

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

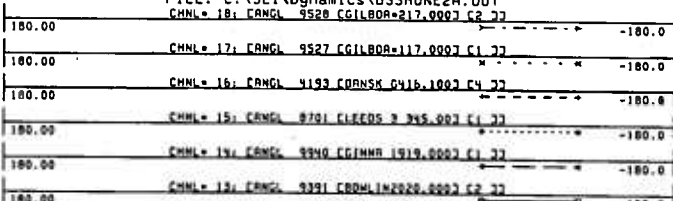
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL= 6: CANGI 7952 CASHGO 5622.0007 C5 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 1

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

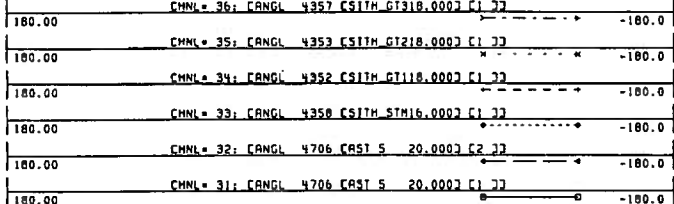
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL= 18: CANGI 9520 CGLBDA 217.0007 C2 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 3

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

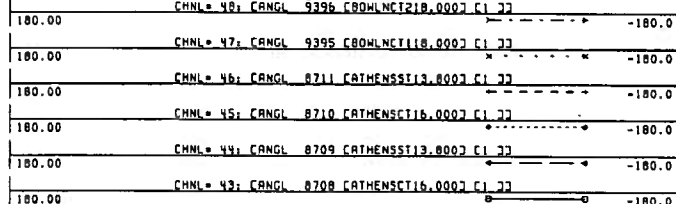
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL= 35; CANGL 4353 CSITH GT18.0007 C1 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 6

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

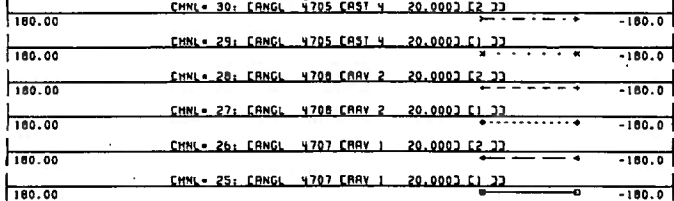
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL= 38; CANGL 9396 CBOWLNCI18.0007 C1 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 7

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

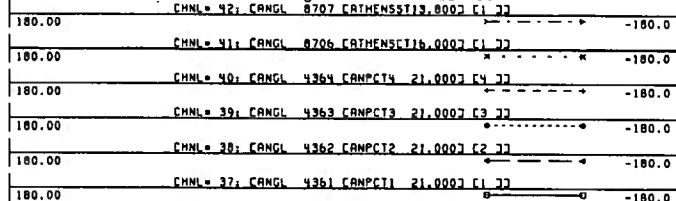
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL= 30; CANGL 4705 CAST 4 20.0007 C2 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 8

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

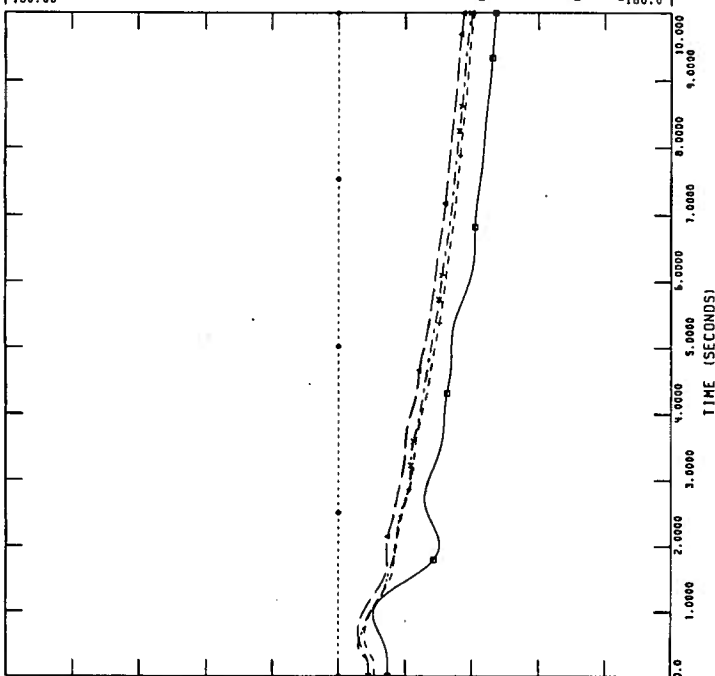
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL= 42; CANGL 8707 CATHEMSC16.0007 C1 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 9

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL= 59: CANG1 23310 CMAIN CK324.0000 C1 JJ

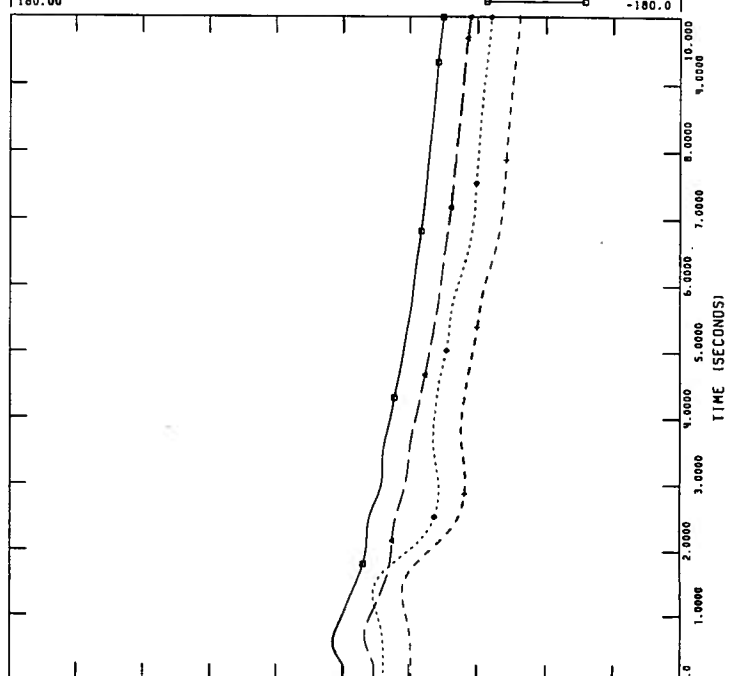
CHNL= 58: CANG1 23091 CLIMERICK2.0000 C1 JJ
CHNL= 57: CANG1 23499 CLIMERICK122.0000 C1 JJ
CHNL= 56: CANG1 23039 CHOPE CA J C1 JJ
CHNL= 55: CANG1 2869 CSARK G1 25.0000 C1 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 10

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT

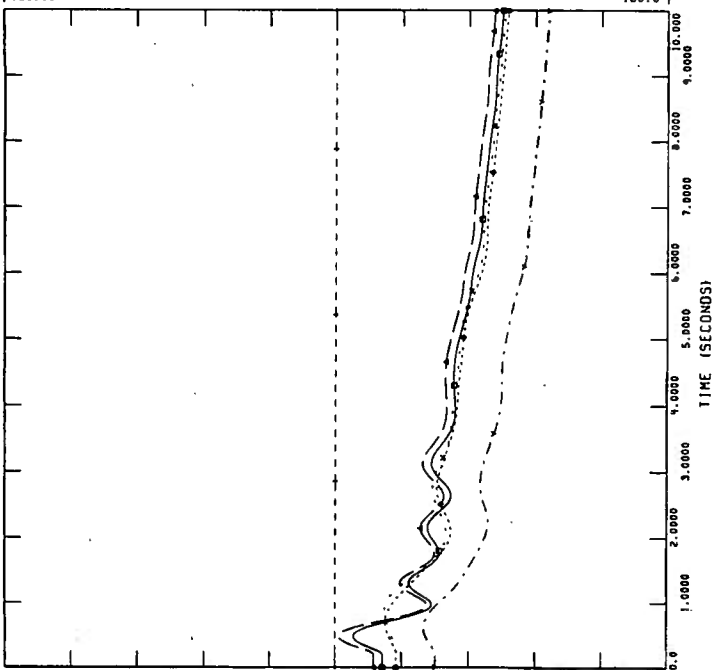
CHNL= 70: CANG1 17472 CALLONG2 19.0000 C1 JJ
CHNL= 69: CANG1 17456 CLEPAG1 26.0000 C1 JJ
CHNL= 68: CANG1 23199 ET M 1 G1.00000 C1 JJ
CHNL= 67: CANG1 23049 CSUSQUEHA J C1 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 12

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL= 54: CANG1 3648 CPTHBA-322.0000 C3 JJ

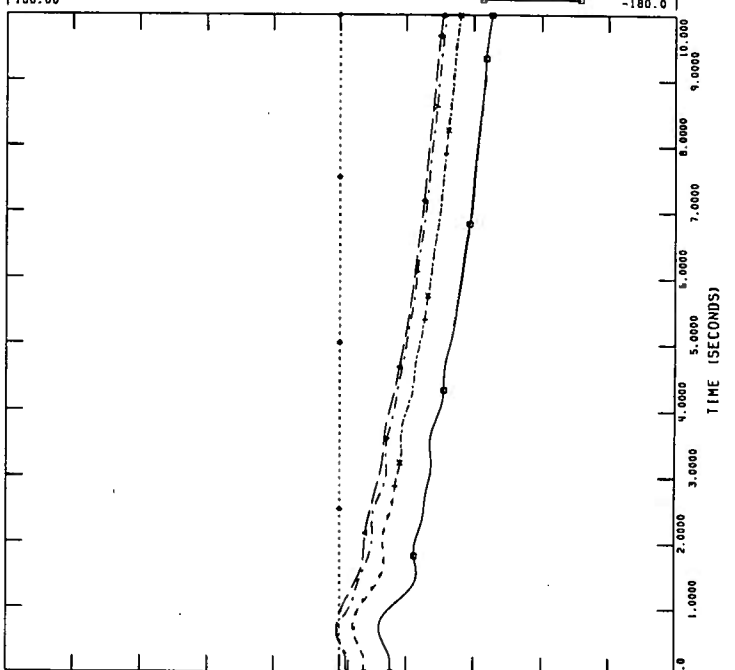
CHNL= 53: CANG1 2371 CIP -4 GN22.0000 C1 JJ
CHNL= 52: CANG1 3563 CMILL-3 24.0000 C3 JJ
CHNL= 51: CANG1 3562 CMILL-2 24.0000 C2 JJ
CHNL= 50: CANG1 9398 CBOHNS1 18.0000 C1 JJ
CHNL= 49: CANG1 9397 CBOHNS18.0000 C1 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 9

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL= 66: CANG1 23368 CSUSQ 1 24.0000 C1 JJ

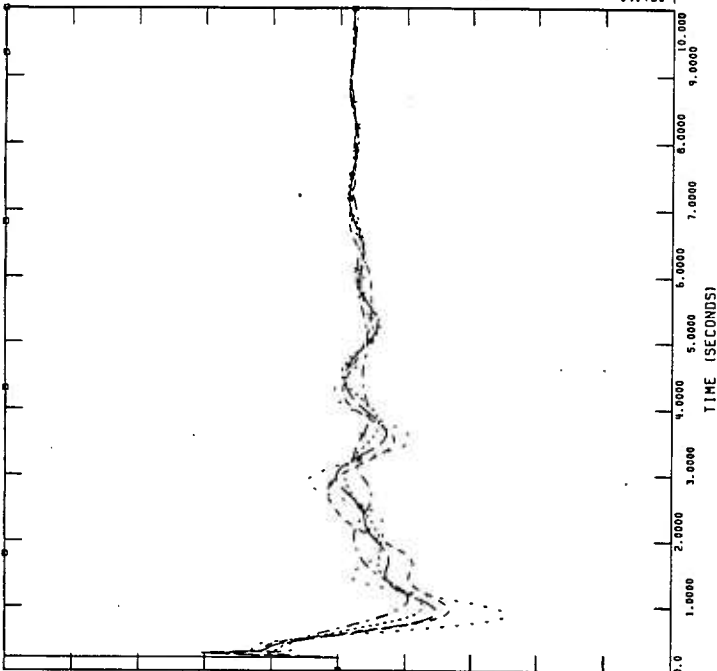
CHNL= 65: CANG1 23002 CSALEM G2 J C1 JJ
CHNL= 64: CANG1 23001 CSALEM G1 J C1 JJ
CHNL= 63: CANG1 23000 CPCBTH-3 J C1 JJ
CHNL= 62: CANG1 25999 CPCBTH-2 J C1 JJ
CHNL= 61: CANG1 23201 COYSTCAG1 J C1 JJ



FRI, MAR 31 2000 16:07
RUN E2A PLOT 11

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL = 705: 60*(1-CFREQ 23003 CALBART15500.0073)

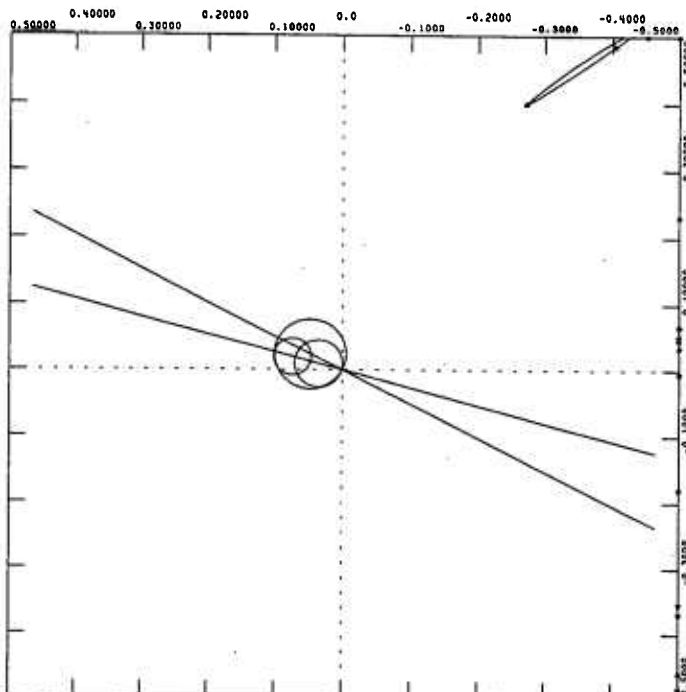
60.250 CHNL = 704: 60*(1-CFREQ 4327 CFARAGUT345.0073) 59.750
60.250 CHNL = 703: 60*(1-CFREQ 3105 CLONG MTN345.0073) 59.750
60.250 CHNL = 702: 60*(1-CFREQ 9577 CMARCY765765.0073) 59.750
60.250 CHNL = 701: 60*(1-CFREQ 5403 CFARAG345345.0073) 59.750
60.250 CHNL = 700: 60*(1-CFREQ 4347 CARAMPO 345.0073) 59.750



FRI, MAR 31 2000 16:07
RUN E2A PLOT 14

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT

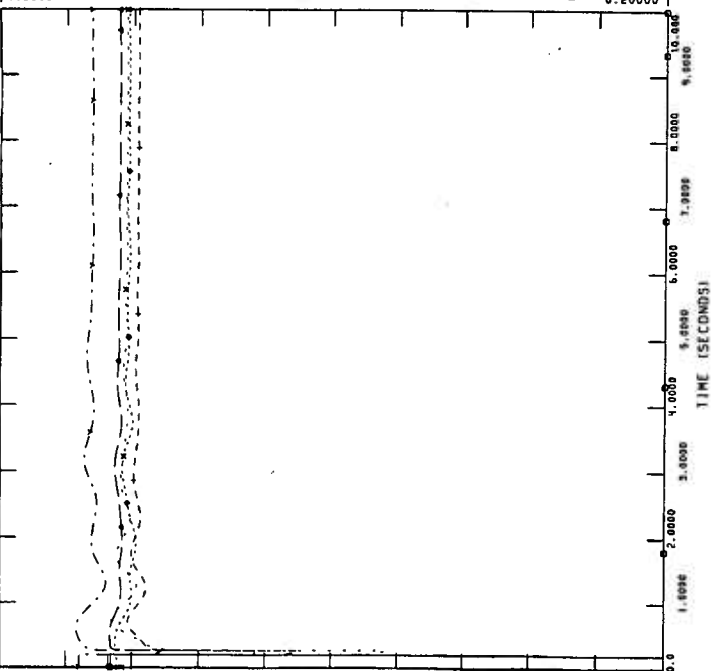
RELAY: DISTR
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13



FRI, MAR 31 2000 16:07
RUN E2A PLOT 15

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT
CHNL = 651: CVOLT 23003 CALBART15500.0073

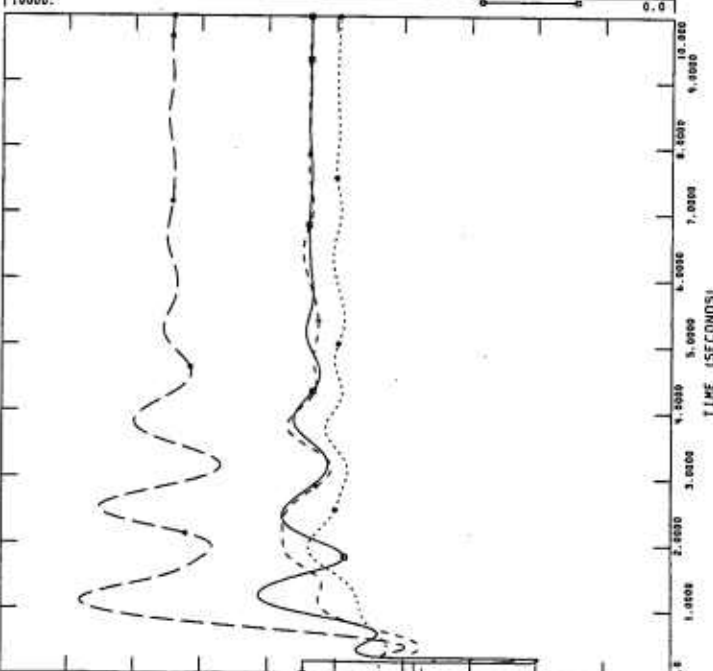
1.2000 CHNL = 508: CVOLT 4327 CFARAGUT345.0073 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MTN345.0073 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCY765765.0073 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARAG345345.0073 0.20000
1.2000 CHNL = 528: CVOLT 4347 CARAMPO 345.0073 0.20000



FRI, MAR 31 2000 16:07
RUN E2A PLOT 13

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DS3RUNE2A.OUT

CHNL = 690: CHN TOTAL EAST
CHNL = 689: CHN CENTRAL EAST
CHNL = 688: CHN UPNT TO SENT
CHNL = 687: CHN UPNT TO CONED



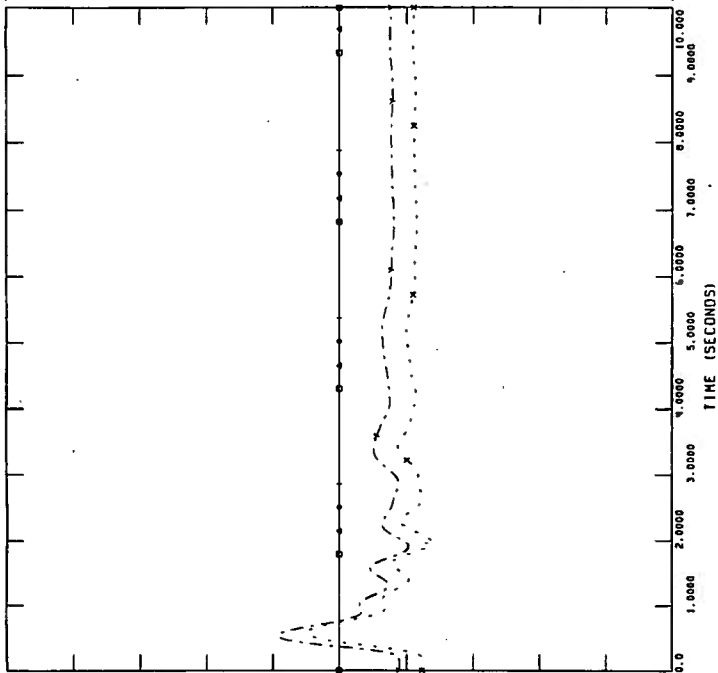
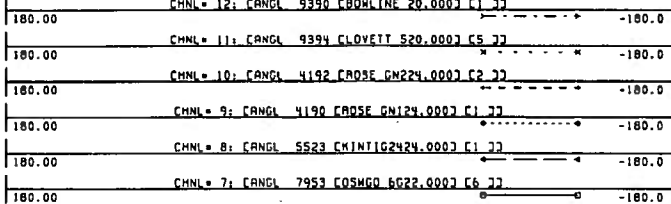
FRI, MAR 31 2000 16:07
RUN E2A PLOT 16

CONTINGENCY E3A

RECOVER FROM D1.SNP AND DS3.CNV
START OUTPUT DS3RUNE3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
RUN FOR 5.50 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4360 CKT 1 / TRIP RAMAPO-ANP CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

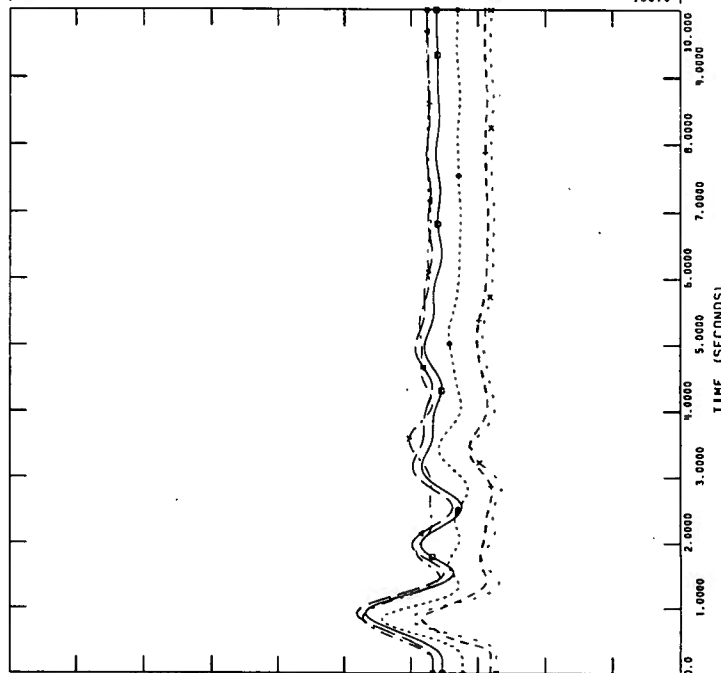
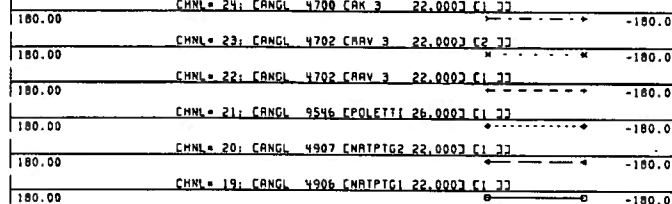
FILE: C:\SEI\Dynamic\DS3AUNE3A.OUT
CHNL= 12: CANGL 9390 CBOU LINE 20.0003 C1 JJ



FRI, MAR 31 2000 16:07
RUN E3A PLOT 2

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

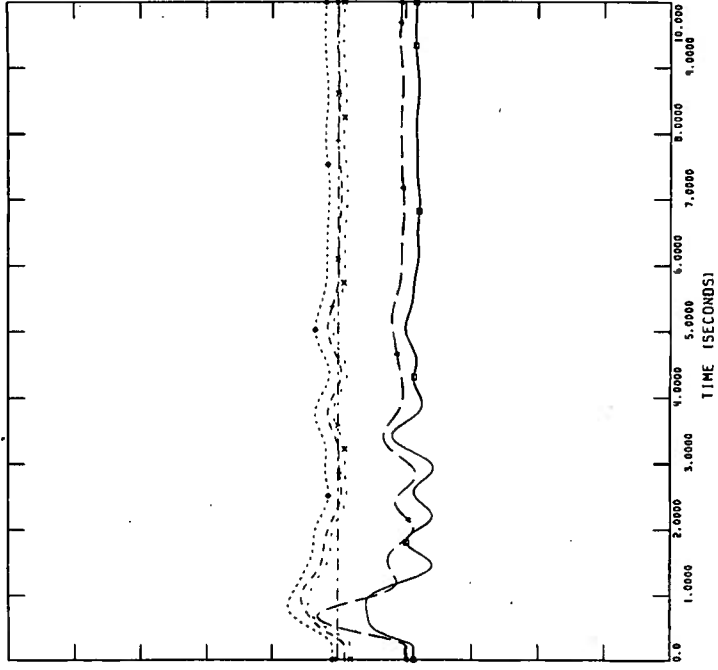
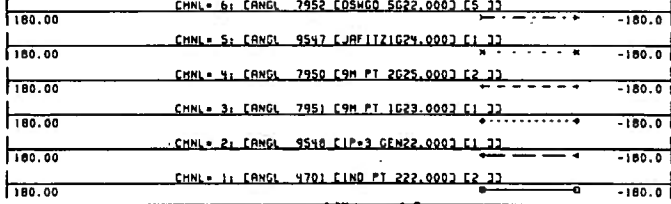
FILE: C:\SEI\Dynamic\DS3AUNE3A.OUT
CHNL= 24: CANGL 4700 CAV 3 22.0003 C1 JJ



FRI, MAR 31 2000 16:07
RUN E3A PLOT 4

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

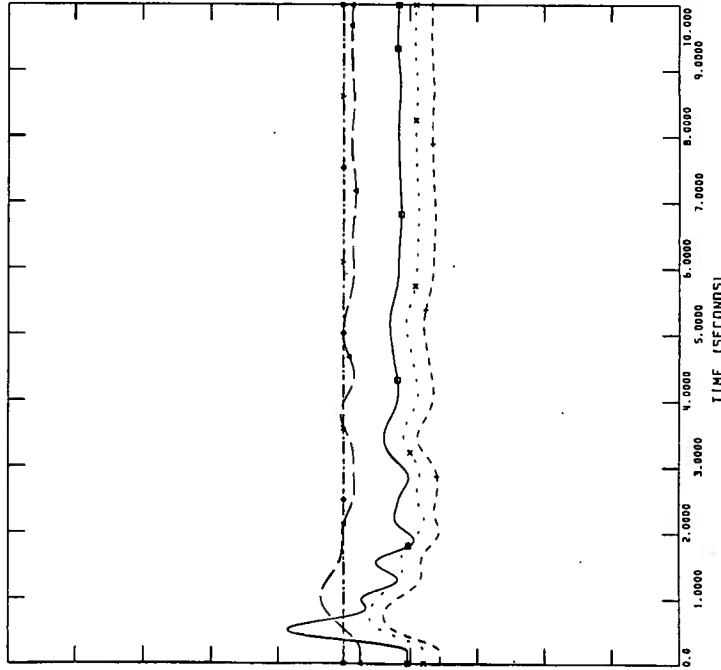
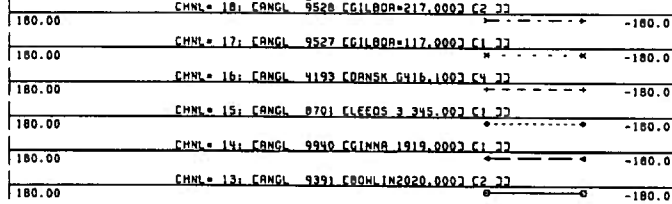
FILE: C:\SEI\Dynamic\DS3AUNE3A.OUT
CHNL= 6: CANGL 7952 COSMGO 5622.0003 C5 JJ



FRI, MAR 31 2000 16:07
RUN E3A PLOT 1

CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3AUNE3A.OUT
CHNL= 18: CANGL 9520 CGILBDA=217.0003 C2 JJ

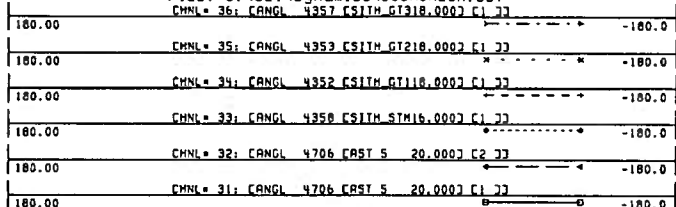


FRI, MAR 31 2000 16:07
RUN E3A PLOT 3



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3RUNE3A.OUT
CHNL = 36: CANGL 4357 CSITH GT218.0007 C1 JJ

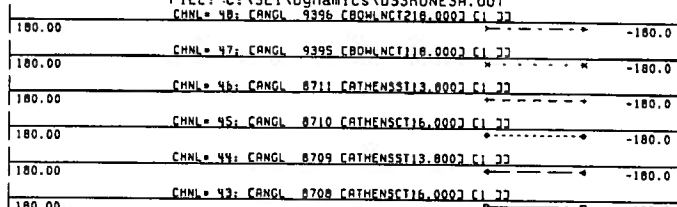


FRI, MAR 31 2000 16:07
RUN E3A PLOT 6



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3RUNE3A.OUT
CHNL = 48: CANGL 9396 CBOWLNCT218.0007 C1 JJ

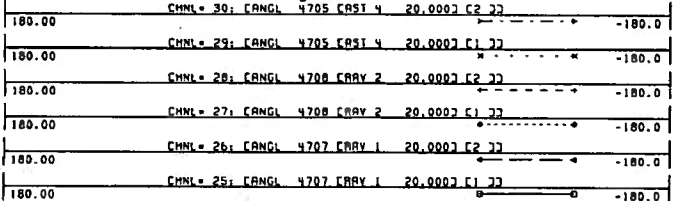


FRI, MAR 31 2000 16:07
RUN E3A PLOT 8



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3RUNE3A.OUT
CHNL = 30: CANGL 4705 CAST 4 20.0007 C2 JJ

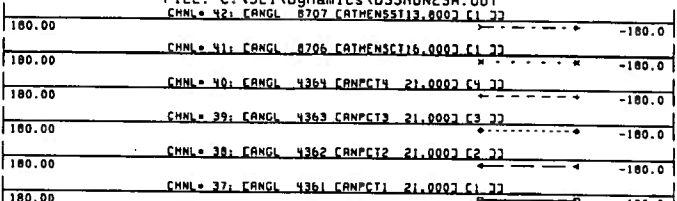


FRI, MAR 31 2000 16:07
RUN E3A PLOT 5



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3RUNE3A.OUT
CHNL = 42: CANGL 8707 CATHENSST13.0007 C1 JJ



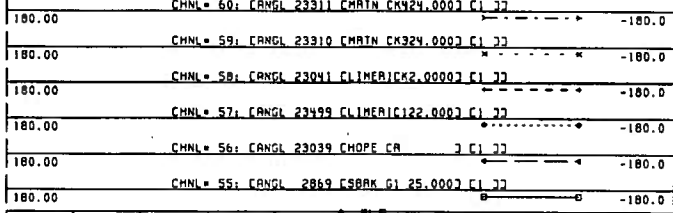
FRI, MAR 31 2000 16:07
RUN E3A PLOT 7



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3AUNE3A.OUT

CHNL = 60: CANGL 23311 CMATN CK324.0000 C1 JJ



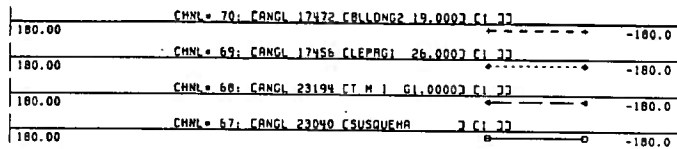
FRI, MAR 31 2000 16:07
RUN E3A PLOT 10



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3AUNE3A.OUT

CHNL = 70: CANGL 17472 CALLONG2 19.0000 C1 JJ



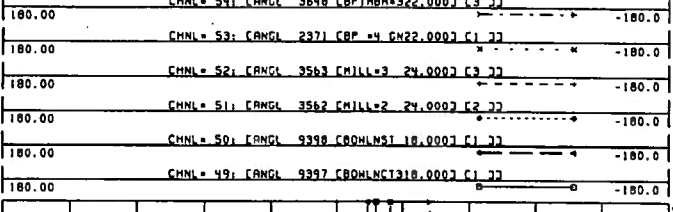
FRI, MAR 31 2000 16:07
RUN E3A PLOT 12



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3AUNE3A.OUT

CHNL = 53: CANGL 2371 CRP -4 CM22.0000 C1 JJ



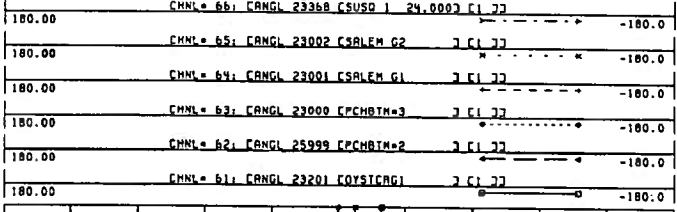
FRI, MAR 31 2000 16:07
RUN E3A PLOT 9



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3AUNE3A.OUT

CHNL = 65: CANGL 23002 CSALEM G2 3 C1 JJ

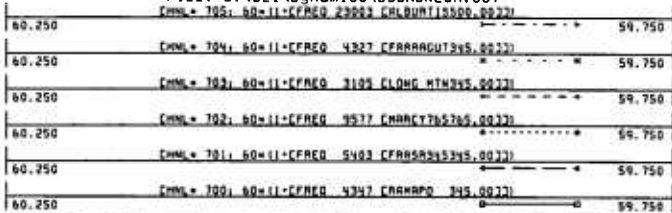


FRI, MAR 31 2000 16:07
RUN E3A PLOT 11



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3RUNE3A.OUT
CHNL = 705: 60=II-CFREQ 23003 CALBUNT15500.0027



FRI, MAR 31 2000 16:07
RUN E3A PLOT 14

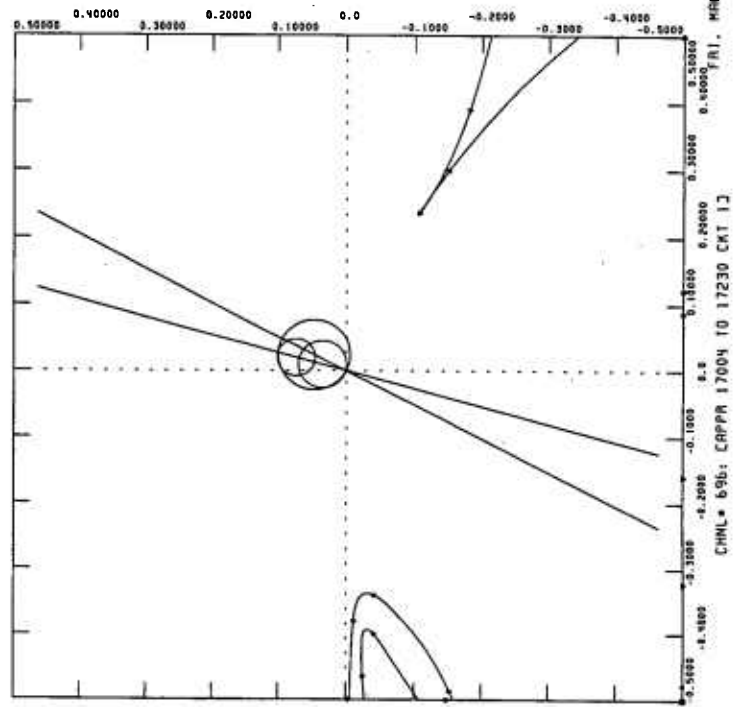


CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3RUNE3A.OUT

RELAY: DISTR

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPX 17004 TO 17230 CKT 13



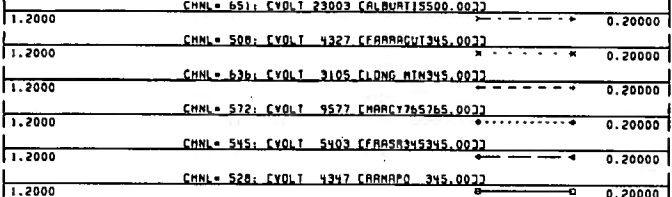
FRI, MAR 31 2000 16:07
RUN E3A PLOT 16



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3RUNE3A.OUT

CHNL = 651: CVOLT 23003 CALBUNT15500.0027

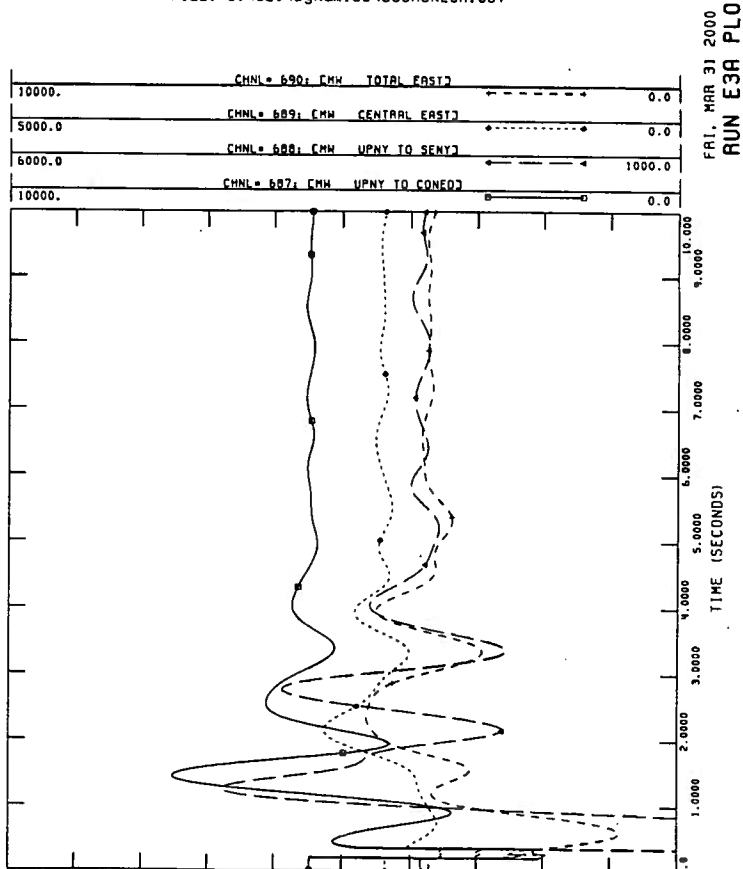


FRI, MAR 31 2000 16:07
RUN E3A PLOT 13



CASE DS3: 2001 SUMMER PEAK
ATHENS, SITHE, ANP, BOWLINE 142 ON - BOWLINE 3 ON
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS3RUNE3A.OUT



FRI, MAR 31 2000 16:07
RUN E3A PLOT 15

APPENDIX F4 - Summer Peak Case DS4

Bowline 1, 2 and 3, Athens, ANP and Sithe On-Line

Bowline 3 Displacing Indian Point 2

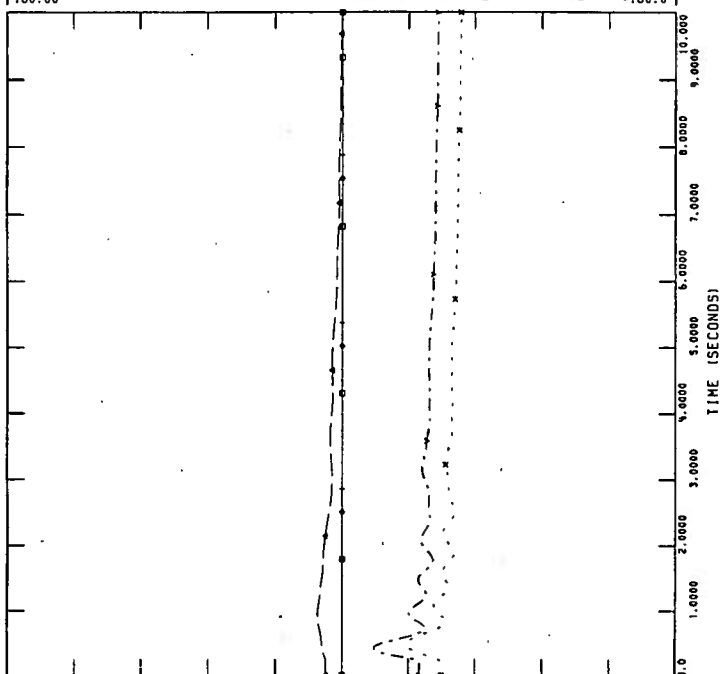
CONTINGENCY D1A

RECOVER FROM D1.SNP AND DS4.CNV
START OUTPUT DS4RUND1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4310 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BOWLINE
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9398 / TRIP BOWLINE 3 ST
TRIP BRANCH FROM BUS 9398 TO BUS 4311 CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT
CHNL = 12: CANGL 9390 CBOWLINE 20.000 C1 JJ

180.00 CHNL = 11: CANGL 9394 CLOVETT 520.000 C5 JJ -180.0
180.00 CHNL = 10: CANGL 4192 CROSE GN224.000 C2 JJ -180.0
180.00 CHNL = 9: CANGL 4190 CROSE GN124.000 C1 JJ -180.0
180.00 CHNL = 8: CANGL 5523 CKINTIG2424.000 C1 JJ -180.0
180.00 CHNL = 7: CANGL 7953 CDSHGO 6022.000 C6 JJ -180.0

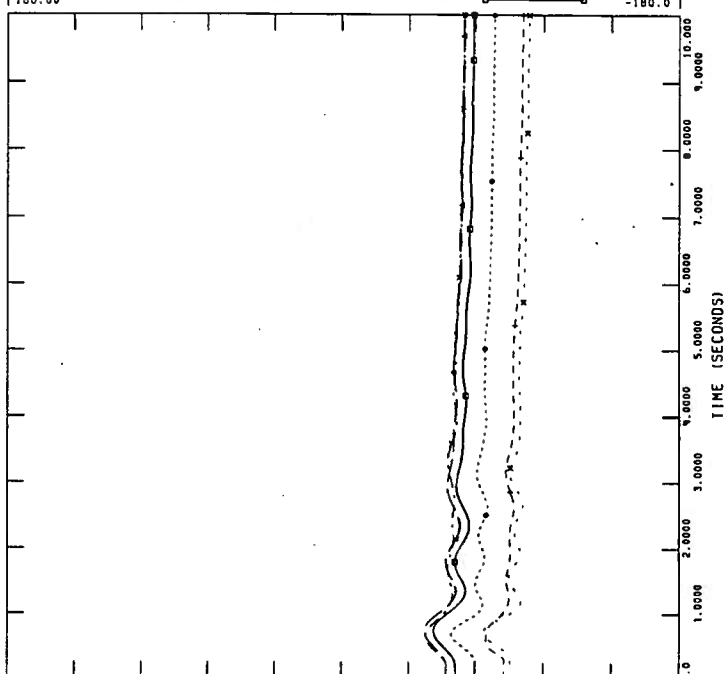


FRI, MAR 31 2000 16:56
RUN DIA PLOT 2

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT
CHNL = 24: CANGL 4700 CARV 3 22.000 C1 JJ

180.00 CHNL = 23: CANGL 4702 CARV 3 22.000 C2 JJ -180.0
180.00 CHNL = 22: CANGL 4702 CARV 3 22.000 C1 JJ -180.0
180.00 CHNL = 21: CANGL 9546 CPOLETTI 26.000 C1 JJ -180.0
180.00 CHNL = 20: CANGL 4907 CNATPTG2 22.000 C1 JJ -180.0
180.00 CHNL = 19: CANGL 4906 CNATPTG1 22.000 C1 JJ -180.0

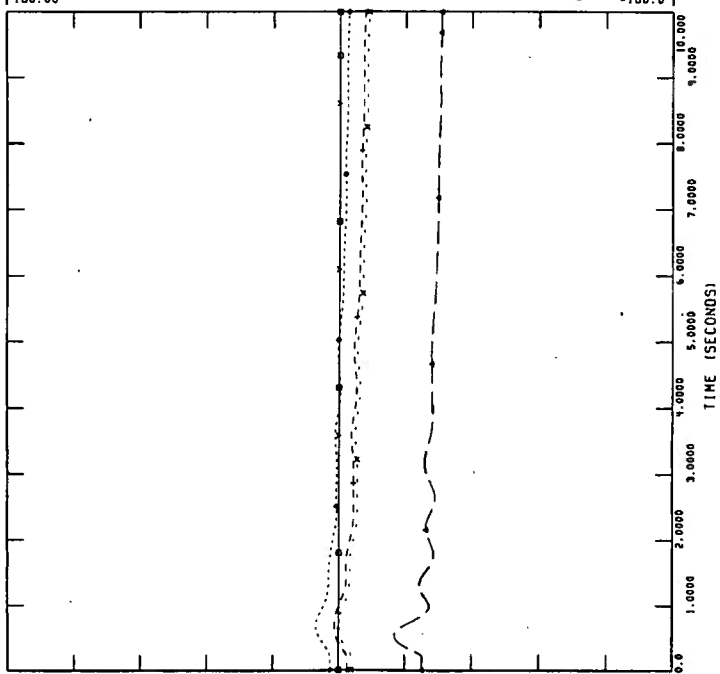


FRI, MAR 31 2000 16:56
RUN DIA PLOT 4

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT
CHNL = 6: CANGL 7952 CDSHGO 5022.000 C5 JJ

180.00 CHNL = 5: CANGL 9547 CJRFT121624.000 C1 JJ -180.0
180.00 CHNL = 4: CANGL 7950 C9M PT 2025.000 C2 JJ -180.0
180.00 CHNL = 3: CANGL 7951 C9M PT 1023.000 C1 JJ -180.0
180.00 CHNL = 2: CANGL 9548 CIP#3 CEN22.000 C1 JJ -180.0
180.00 CHNL = 1: CANGL 4701 CIND PT 222.000 C2 JJ -180.0

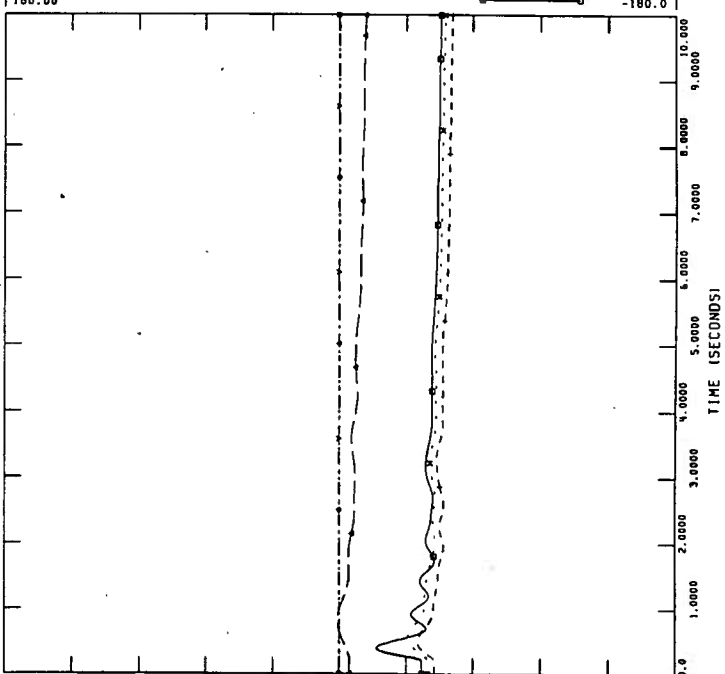


FRI, MAR 31 2000 16:56
RUN DIA PLOT 1

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT
CHNL = 18: CANGL 9528 CGILBDA=217.000 C2 JJ

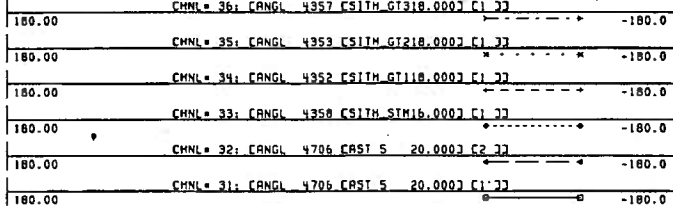
180.00 CHNL = 17: CANGL 9527 CGILBDA=117.000 C1 JJ -180.0
180.00 CHNL = 16: CANGL 4193 CDRANSK G416.100 C4 JJ -180.0
180.00 CHNL = 15: CANGL 8701 CLEEDS 3 345.00 C1 JJ -180.0
180.00 CHNL = 14: CANGL 9940 CGINRA 1919.000 C1 JJ -180.0
180.00 CHNL = 13: CANGL 9391 CBOWLIN2020.000 C2 JJ -180.0



FRI, MAR 31 2000 16:56
RUN DIA PLOT 3

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
 FAULT AT BOWLINE, TRIP BOWLINE 3

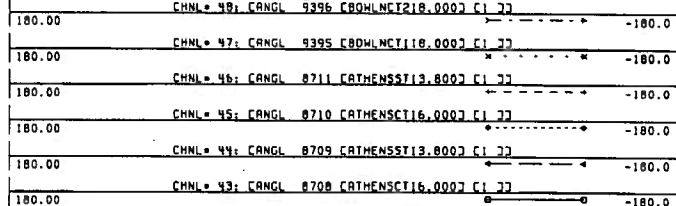
FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT
 CHNL = 36: CANGL 4357 CSITH GT318.0000 C1 JJ



FRI, MAR 31 2000 16:56
 RUN DIA PLOT 6

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
 FAULT AT BOWLINE, TRIP BOWLINE 3

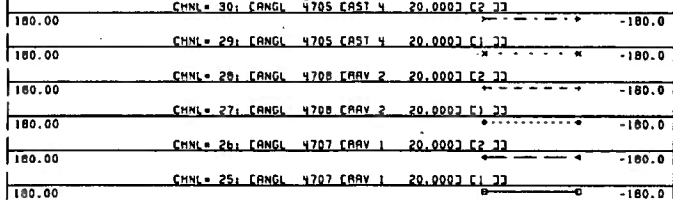
FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT
 CHNL = 48: CANGL 9396 CBOWLNET218.0000 C1 JJ



FRI, MAR 31 2000 16:56
 RUN DIA PLOT 7

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
 FAULT AT BOWLINE, TRIP BOWLINE 3

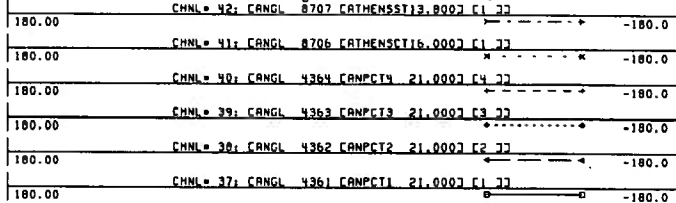
FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT
 CHNL = 30: CANGL 4705 CAST 4 20.0000 C2 JJ



FRI, MAR 31 2000 16:56
 RUN DIA PLOT 8

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
 FAULT AT BOWLINE, TRIP BOWLINE 3

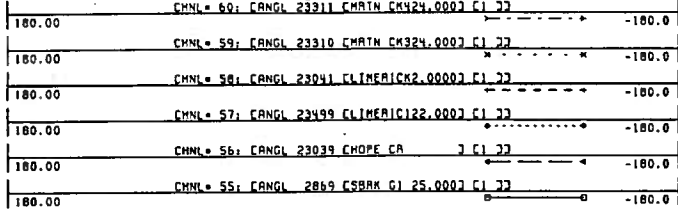
FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT
 CHNL = 42: CANGL 8707 CATHENSST13.0000 C1 JJ



FRI, MAR 31 2000 16:56
 RUN DIA PLOT 9

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
 FAULT AT BOWLINE, TRIP BOWLINE 3

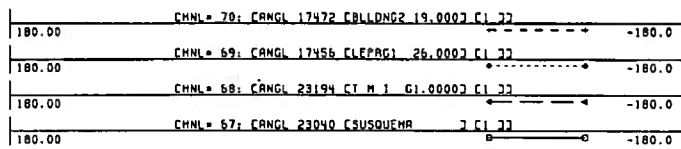
FILE: C:\SEI\Dynamic\DS4\RUNDIA.OUT
 CHNL= 60: CANGL 23911 CMATN CM324.0000 C1 JJ



FRI, MAR 31 2000 16:56
 RUN DIA PLOT 10

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
 FAULT AT BOWLINE, TRIP BOWLINE 3

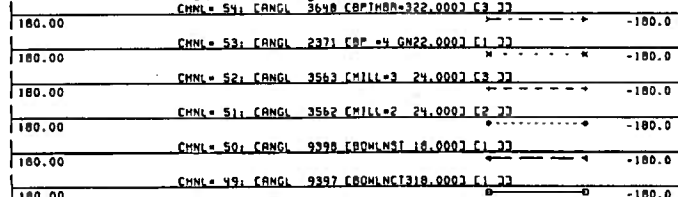
FILE: C:\SEI\Dynamic\DS4\RUNDIA.OUT



FRI, MAR 31 2000 16:56
 RUN DIA PLOT 12

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
 FAULT AT BOWLINE, TRIP BOWLINE 3

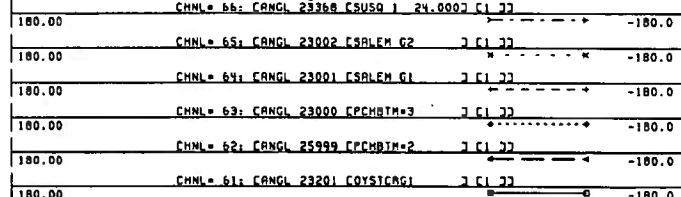
FILE: C:\SEI\Dynamic\DS4\RUNDIA.OUT
 CHNL= 54: CANGL 3640 CAPTHAR-322.0000 C3 JJ



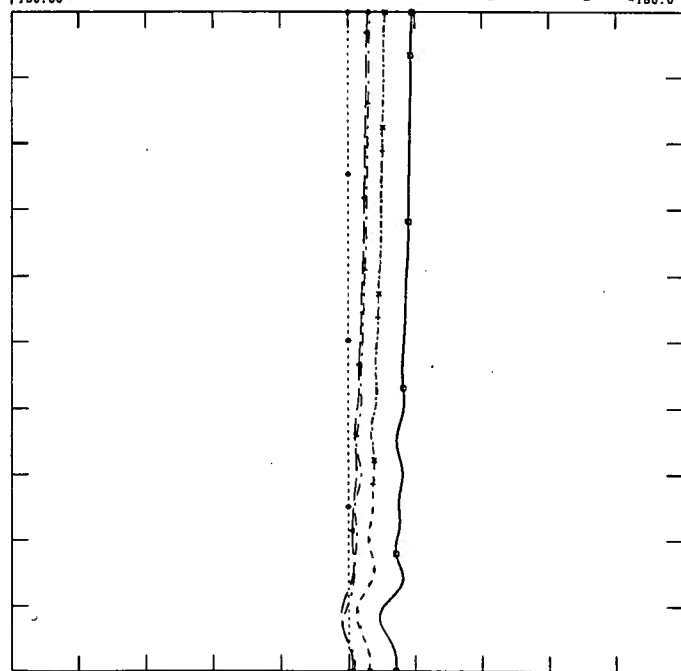
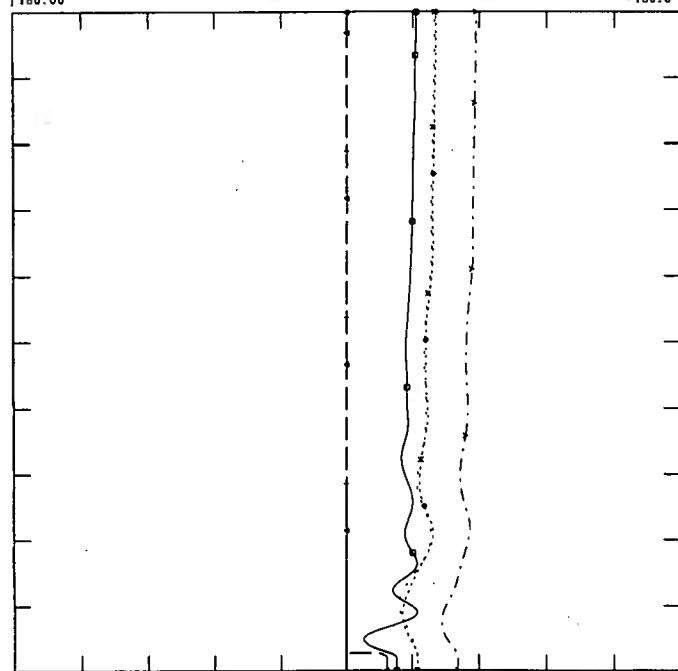
FRI, MAR 31 2000 16:56
 RUN DIA PLOT 9

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
 FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS4\RUNDIA.OUT
 CHNL= 66: CANGL 23368 CSUSQ 1 24.0000 C1 JJ



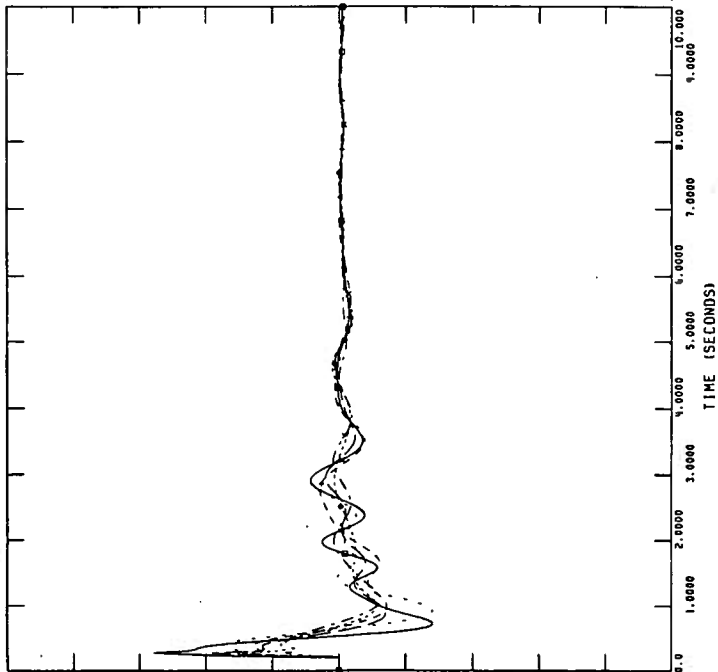
FRI, MAR 31 2000 16:56
 RUN DIA PLOT 11



CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BMLIN 142 ON - BMLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT
CHNL = 705: 60*(1-CFREQ 23003 CALBUT15500.0077)

60.250 CHNL = 704: 60*(1-CFREQ 4327 CFARRAGUT345.0077) 59.750
60.250 CHNL = 703: 60*(1-CFREQ 3105 CLONG MTN345.0077) 59.750
60.250 CHNL = 702: 60*(1-CFREQ 9577 CMARCY765765.0077) 59.750
60.250 CHNL = 701: 60*(1-CFREQ 5403 CFARSA345345.0077) 59.750
60.250 CHNL = 700: 60*(1-CFREQ 4347 CARRAPO 345.0077) 59.750



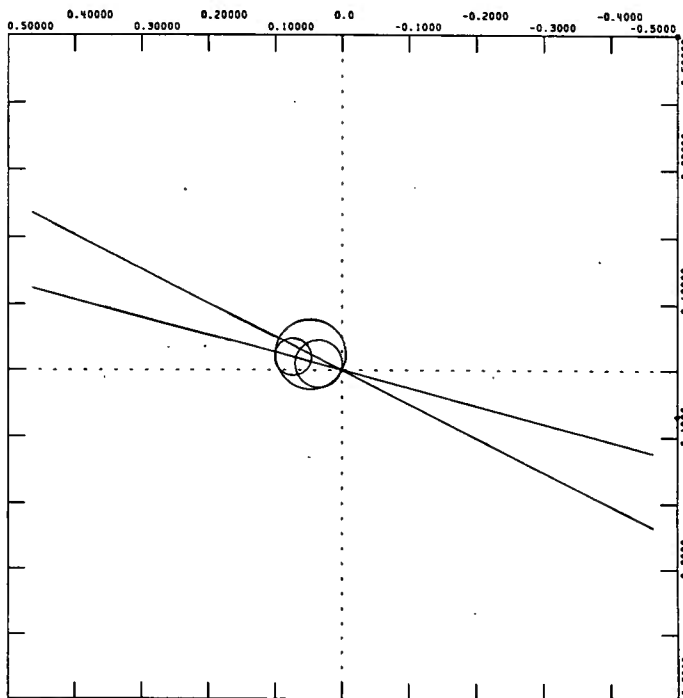
FRI, MAR 31 2000 16:56
RUN DIA PLOT 14

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BMLIN 142 ON - BMLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT

RELAY: DISTR

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

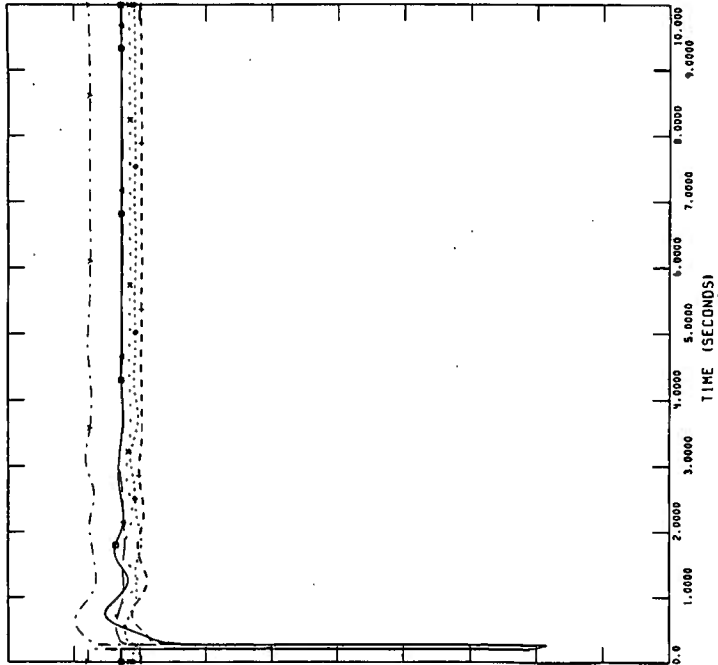


FRI, MAR 31 2000 16:56
RUN DIA PLOT 15

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BMLIN 142 ON - BMLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT

1.2000 CHNL = 508: CVOLT 4327 CFARRAGUT345.0077 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MTN345.0077 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCY765765.0077 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARSA345345.0077 0.20000
1.2000 CHNL = 528: CVOLT 4347 CARRAPO 345.0077 0.20000

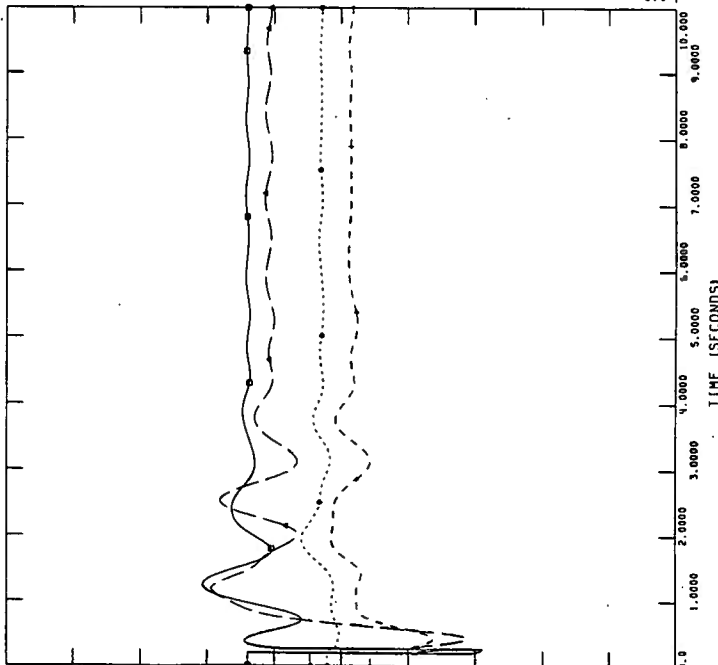


FRI, MAR 31 2000 16:56
RUN DIA PLOT 16

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BMLIN 142 ON - BMLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DS4RUNDIA.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENE 1000.0
CHNL = 687: CMW UPNY TO CONED 0.0



FRI, MAR 31 2000 16:56
RUN DIA PLOT 17

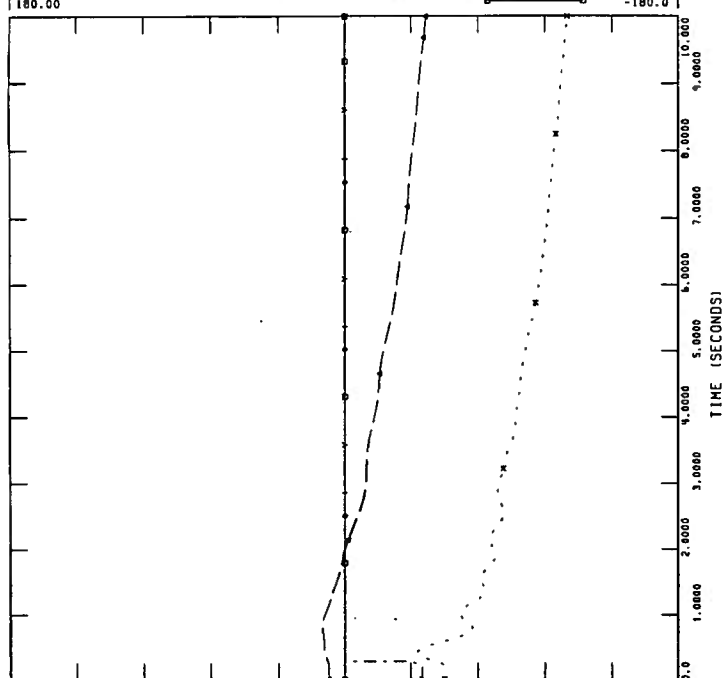
CONTINGENCY D2A

```
RECOVER FROM D1.SNP AND DS4.CNV
START OUTPUT DS4RUND2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0  -2e+009 MVA  / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9390  / TRIP BOWLINE 1
DROP GENERATOR 2 AT BUS 9391  / TRIP BOWLINE 2
DROP GENERATOR 1 AT BUS 9395  / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9396  / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9397  / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9398  / TRIP BOWLINE 3 ST
DISCONNECT BUS 9300  /
DISCONNECT BUS 9301  /
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3
```


CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
CHNL = 12: CANGL 9390 CBOWLINE 20.0007 C1 JJ

CHNL = 11: CANGL 9394 CLOVET 520.0007 C5 JJ
CHNL = 10: CANGL 4192 CROSE GM224.0007 C2 JJ
CHNL = 9: CANGL 4190 CROSE GM124.0007 C1 JJ
CHNL = 8: CANGL 5523 EKINTIG2424.0007 C1 JJ
CHNL = 7: CANGL 7953 CDSHGO 6622.0007 C6 JJ

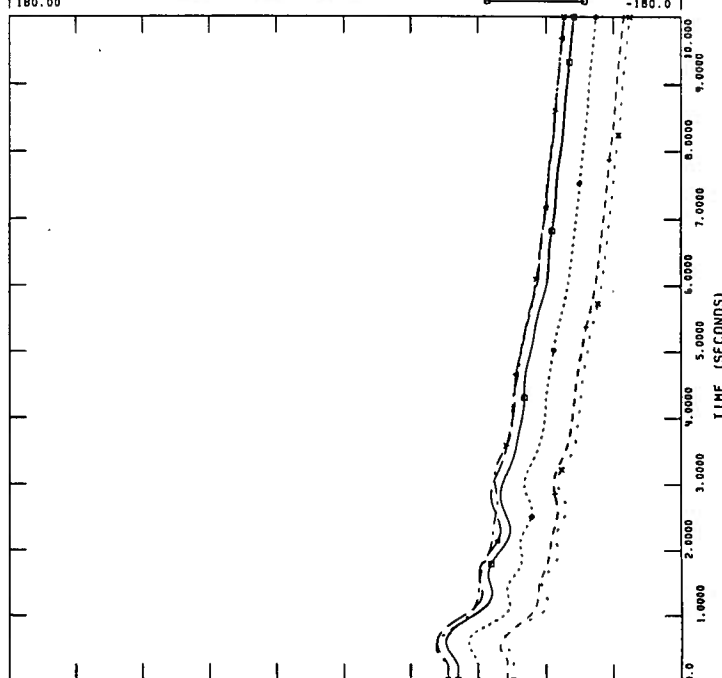


FRI, MAR 31 2000 16:56
RUN D2A PLOT 2

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
CHNL = 24: CANGL 4700 CARV 3 22.0007 C1 JJ

CHNL = 23: CANGL 4702 CARV 3 22.0007 C2 JJ
CHNL = 22: CANGL 4702 CARV 3 22.0007 C1 JJ
CHNL = 21: CANGL 9546 CPOLETTI 26.0007 C1 JJ
CHNL = 20: CANGL 4907 CNRPTG2 22.0007 C1 JJ
CHNL = 19: CANGL 4906 CNRPTG1 22.0007 C1 JJ

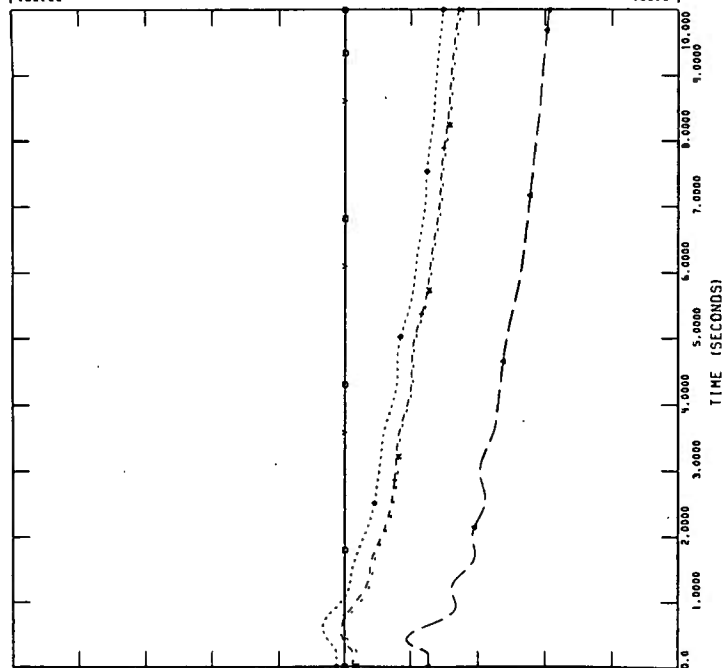


FRI, MAR 31 2000 16:56
RUN D2A PLOT 4

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
CHNL = 6: CANGL 7952 CDSHGO 6622.0007 C5 JJ

CHNL = 5: CANGL 9547 CJPFT171624.0007 C1 JJ
CHNL = 4: CANGL 7950 C9M PT 2625.0007 C2 JJ
CHNL = 3: CANGL 7951 C9M PT 1623.0007 C1 JJ
CHNL = 2: CANGL 9548 CIP=3 GEN22.0007 C1 JJ
CHNL = 1: CANGL 4701 CIND PT 222.0007 C2 JJ

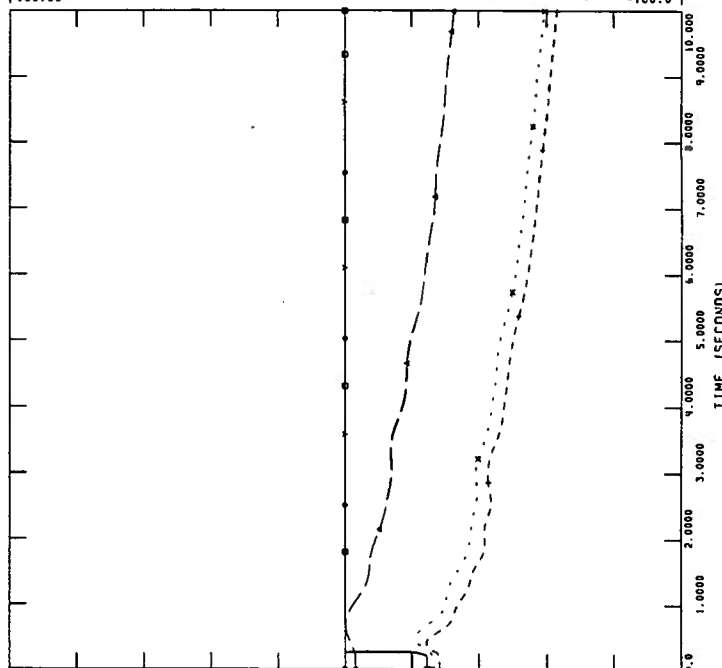


FRI, MAR 31 2000 16:56
RUN D2A PLOT 1

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
CHNL = 18: CANGL 9528 CGILBDA=217.0007 C2 JJ

CHNL = 17: CANGL 9527 CGILBDA=117.0007 C1 JJ
CHNL = 16: CANGL 4193 CORANSK 6416.1007 C4 JJ
CHNL = 15: CANGL 8701 CLEEDS 3 345.007 C1 JJ
CHNL = 14: CANGL 9940 CGINRA 1919.0007 C1 JJ
CHNL = 13: CANGL 9391 CBOWLINE2020.0007 C2 JJ

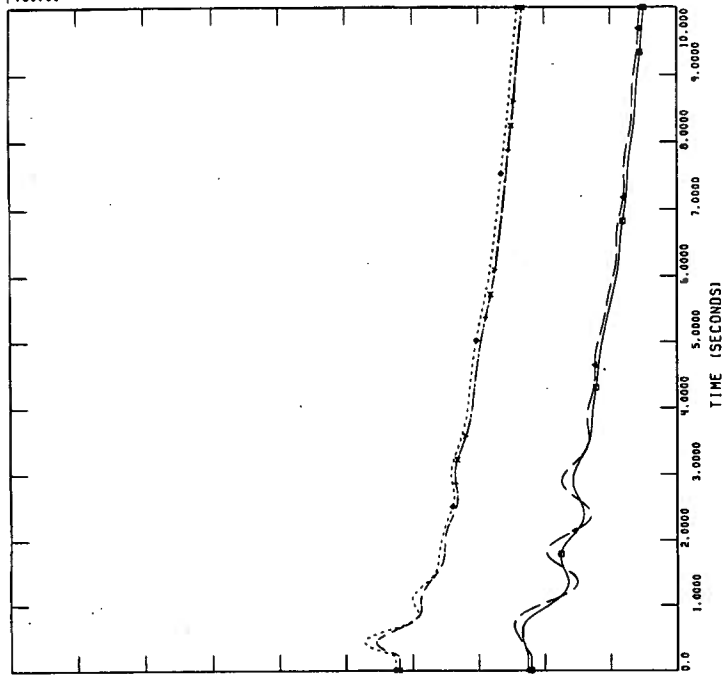


FRI, MAR 31 2000 16:56
RUN D2A PLOT 3

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
CHNL = 36: CANGL 4357 CSITH GT318.0000 C1 JJ

CHNL = 35: CANGL 4353 CSITH GT218.0000 C1 JJ
CHNL = 34: CANGL 4352 CSITH GT118.0000 C1 JJ
CHNL = 33: CANGL 4358 CSITH ST116.0000 C1 JJ
CHNL = 32: CANGL 4706 CAST 5 20.0000 C2 JJ
CHNL = 31: CANGL 4706 CAST 5 20.0000 C1 JJ

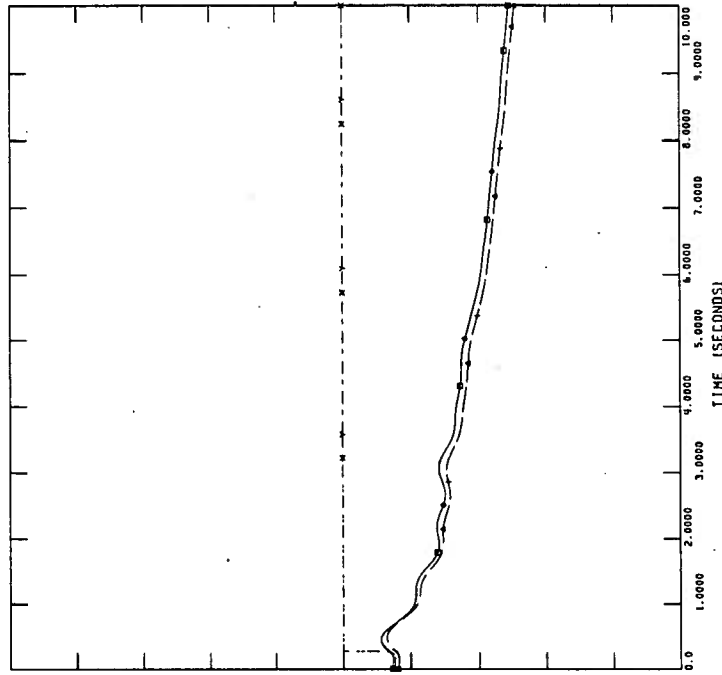


FRI, MAR 31 2000 16:56
RUN D2A PLOT 6

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
CHNL = 48: CANGL 9396 CBOWLNCT18.0000 C1 JJ

CHNL = 47: CANGL 9395 CBOWLNCT118.0000 C1 JJ
CHNL = 46: CANGL 8711 CATHENSST13.8000 C1 JJ
CHNL = 45: CANGL 8710 CATHENSST16.0000 C1 JJ
CHNL = 44: CANGL 8709 CATHENSST13.8000 C1 JJ
CHNL = 43: CANGL 8708 CATHENSST16.0000 C1 JJ

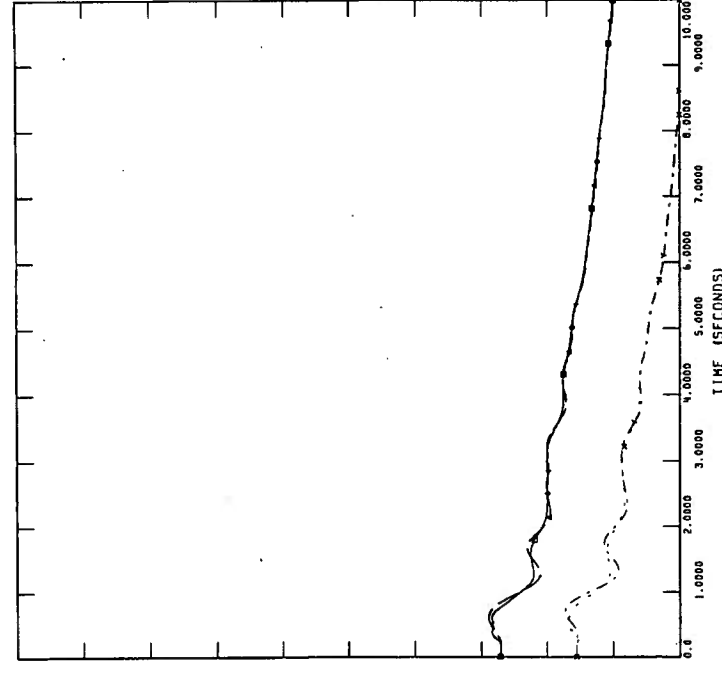


FRI, MAR 31 2000 16:57
RUN D2A PLOT 8

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
CHNL = 30: CANGL 4705 CAST 4 20.0000 C1 JJ

CHNL = 29: CANGL 4705 CAST 4 20.0000 C1 JJ
CHNL = 28: CANGL 4708 CARY 2 20.0000 C2 JJ
CHNL = 27: CANGL 4708 CARY 2 20.0000 C1 JJ
CHNL = 26: CANGL 4707 CARY 1 20.0000 C2 JJ
CHNL = 25: CANGL 4707 CARY 1 20.0000 C1 JJ

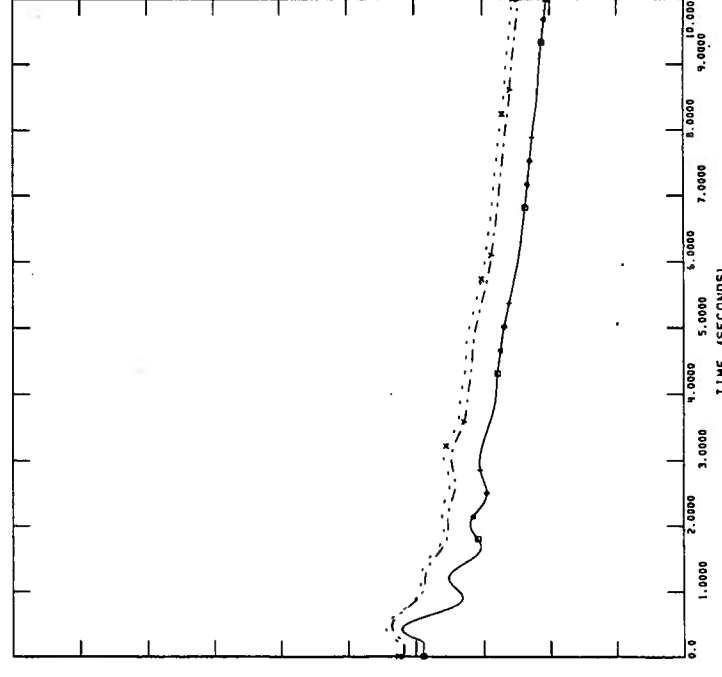


FRI, MAR 31 2000 16:56
RUN D2A PLOT 5

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

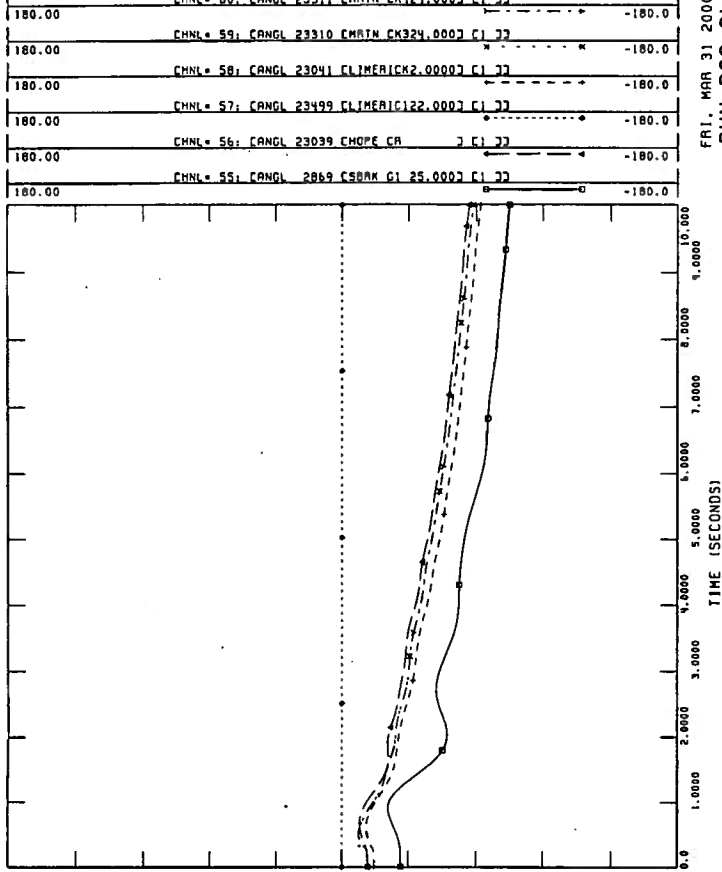
FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
CHNL = 42: CANGL 8707 CATHENSST13.8000 C1 JJ

CHNL = 41: CANGL 8706 CATHENSST16.0000 C1 JJ
CHNL = 40: CANGL 4364 CANPCT4 21.0000 C4 JJ
CHNL = 39: CANGL 4363 CANPCT3 21.0000 C3 JJ
CHNL = 38: CANGL 4362 CANPCT2 21.0000 C2 JJ
CHNL = 37: CANGL 4361 CANPCT1 21.0000 C1 JJ



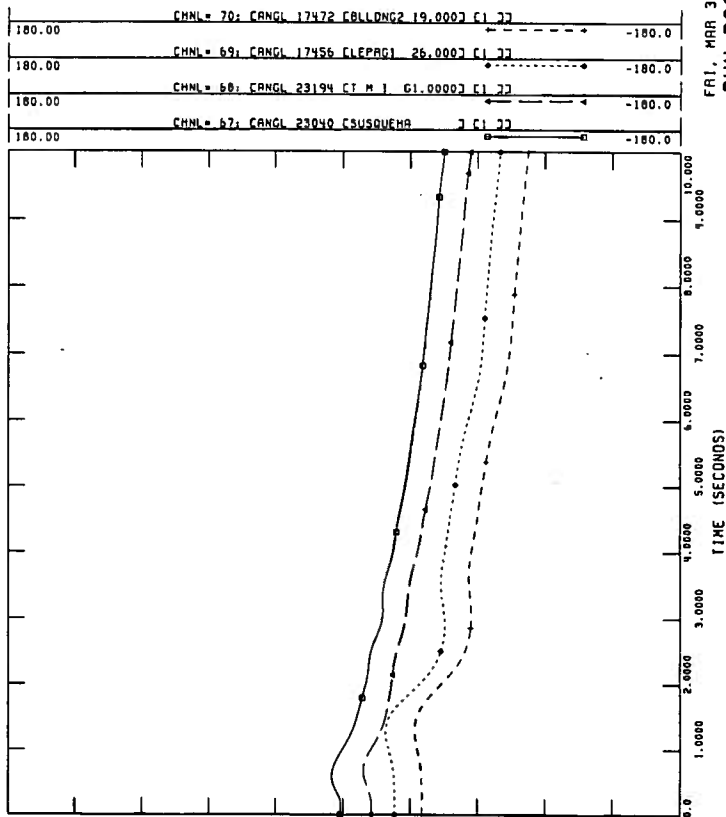
FRI, MAR 31 2000 16:57
RUN D2A PLOT 7

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
 CHNL= 59: CANGL 23310 CMTIN CK324.0007 C1 JJ
 CHNL= 60: CANGL 23311 CMTIN CK424.0007 C1 JJ



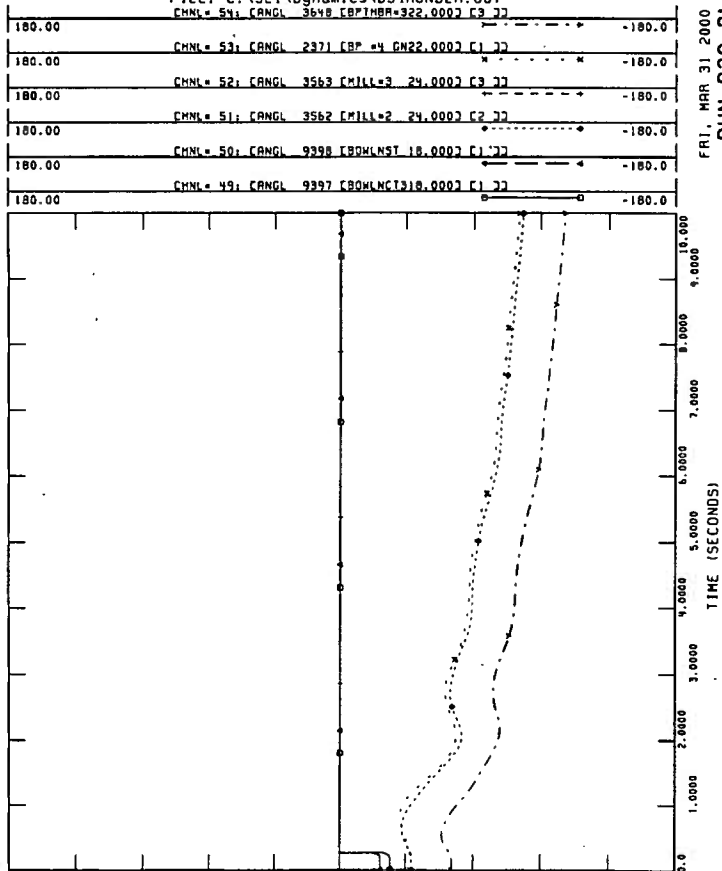
FRI, MAR 31 2000 16:57
 RUN D2A PLOT 10

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
 CHNL= 70: CANGL 17472 CALLONG2 19.0007 C1 JJ
 CHNL= 69: CANGL 17456 CLEPAG1 26.0007 C1 JJ
 CHNL= 68: CANGL 23194 CT M 1 G1.00007 C1 JJ
 CHNL= 67: CANGL 23040 CSUSQUEHA 7 C1 JJ



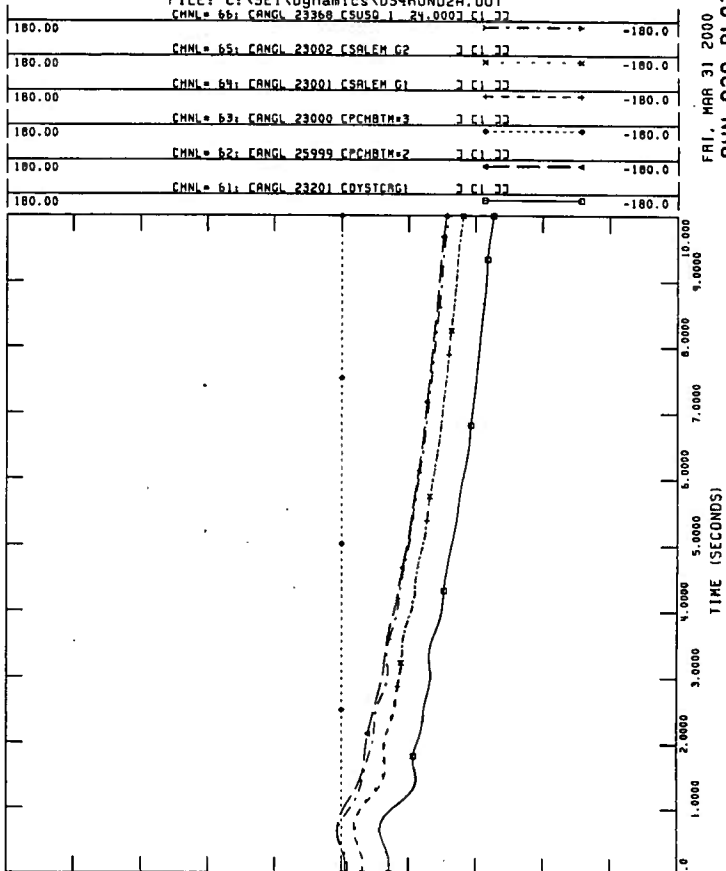
FRI, MAR 31 2000 16:57
 RUN D2A PLOT 12

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
 CHNL= 53: CANGL 2371 CIP =4 CM22.0002 C1 JJ
 CHNL= 52: CANGL 3563 CMILL=3 24.0002 C3 JJ
 CHNL= 51: CANGL 3562 CMILL=2 24.0002 C2 JJ
 CHNL= 50: CANGL 9398 CBOHNGST 18.0007 C1 JJ
 CHNL= 49: CANGL 9397 CBOHNGCT3 18.0007 C1 JJ



FRI, MAR 31 2000 16:57
 RUN D2A PLOT 9

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
 CHNL= 65: CANGL 23002 CSALEM G2 7 C1 JJ
 CHNL= 64: CANGL 23001 CSALEM G1 7 C1 JJ
 CHNL= 63: CANGL 23000 CPCBATH=3 7 C1 JJ
 CHNL= 62: CANGL 25999 CPCBATH=2 7 C1 JJ
 CHNL= 61: CANGL 23201 CRYSTCAG1 7 C1 JJ

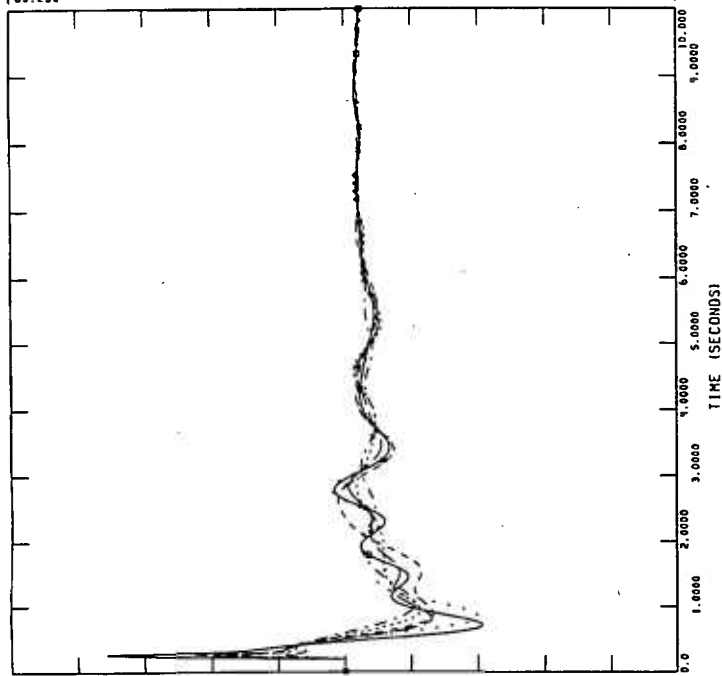


FRI, MAR 31 2000 16:57
 RUN D2A PLOT 11

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
CHNL = 704: 60 (I) CFREQ 4327 CFARAGUT345.0073

60.250 59.750
CHNL = 703: 60 (I) CFREQ 3105 CLONG MTN345.0073
60.250 59.750
CHNL = 702: 60 (I) CFREQ 9577 CMARCY765765.0073
60.250 59.750
CHNL = 701: 60 (I) CFREQ 5403 CFARAS345345.0073
60.250 59.750
CHNL = 700: 60 (I) CFREQ 4347 CAMAPO 345.0073
60.250 59.750

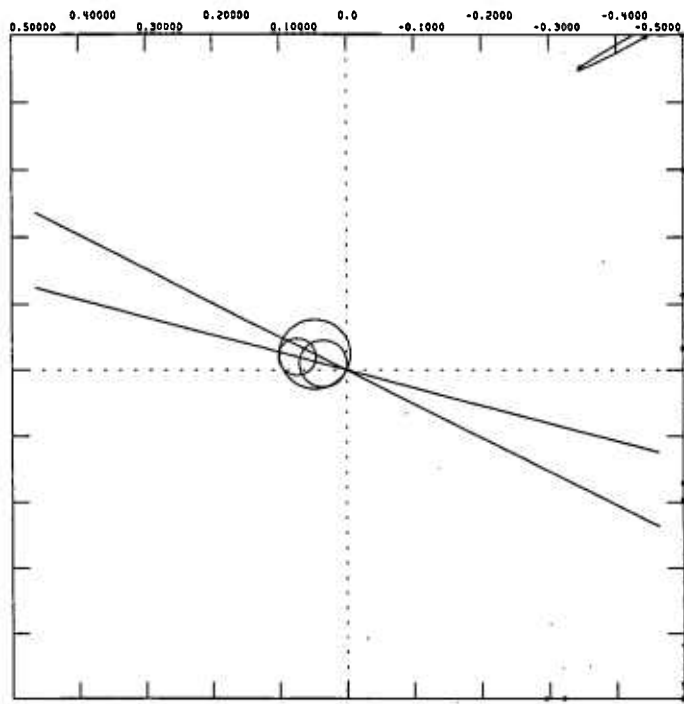


FRI, MAR 31 2000 16:57
RUN D2A PLOT 14

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS4RUND2A.OUT

RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

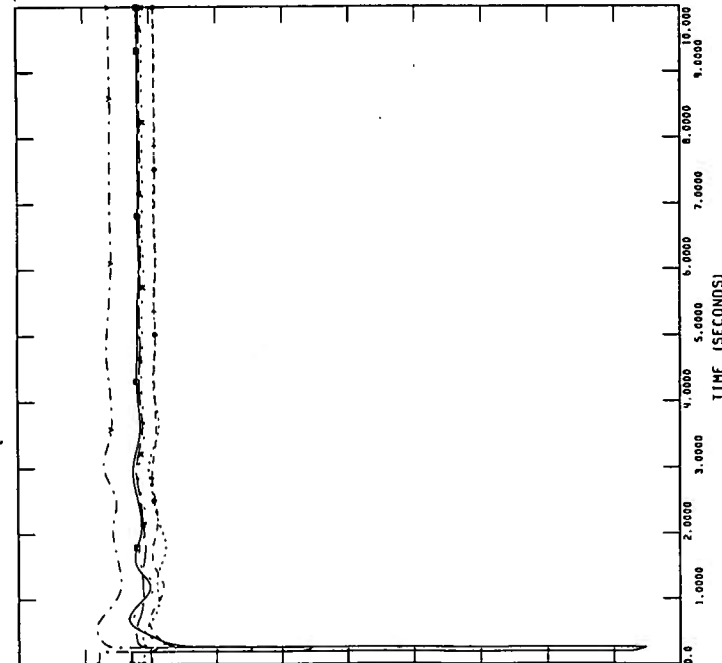


FRI, MAR 31 2000 16:57
RUN D2A PLOT 16

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS4RUND2A.OUT
CHNL = 651: CVOLT 23003 CALBART15500.0073

1.2000 0.20000
CHNL = 508: CVOLT 4327 CFARAGUT345.0073
1.2000 0.20000
CHNL = 636: CVOLT 3105 CLONG MTN345.0073
1.2000 0.20000
CHNL = 572: CVOLT 9577 CMARCY765765.0073
1.2000 0.20000
CHNL = 545: CVOLT 5403 CFARAS345345.0073
1.2000 0.20000
CHNL = 528: CVOLT 4347 CAMAPO 345.0073
1.2000 0.20000

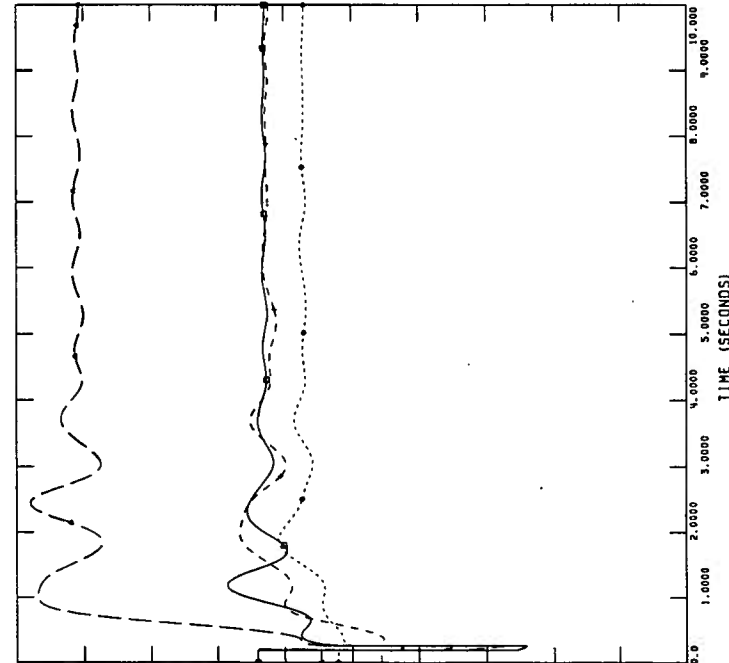


FRI, MAR 31 2000 16:57
RUN D2A PLOT 13

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3

FILE: C:\SEI\Dynamic\DS4RUND2A.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENT 1000.0
CHNL = 687: CMW UPNY TO COMED 0.0



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RUN D2A PLOT 15

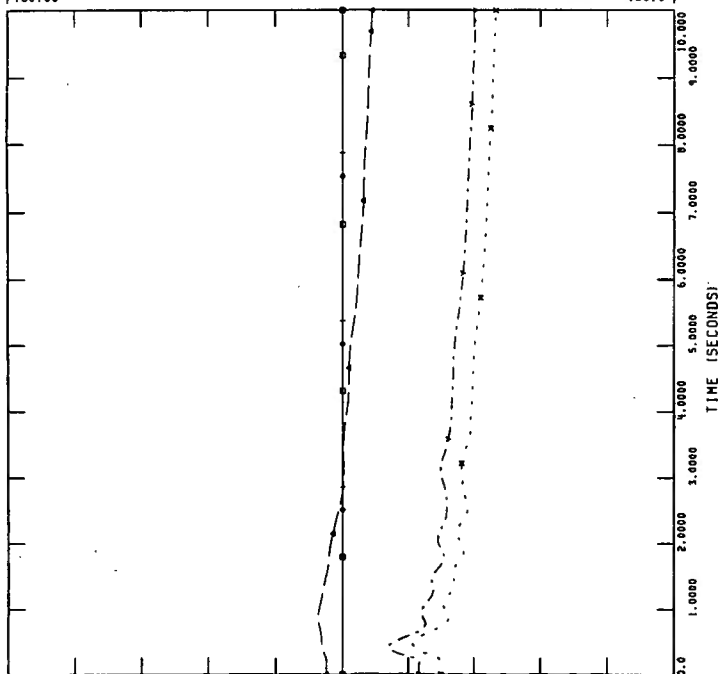
CONTINGENCY D3A

RECOVER FROM D1.SNP AND DS4.CNV
START OUTPUT DS4RUND3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 9582 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT INDN PT 3
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9548 / TRIP INDN PT 3
TRIP LINE FROM BUS 4313 TO BUS 9582 CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE D54: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
 FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
 CHNL = 12: CANGL 9390 CROHLINE 20.0002 C1 JJ

CHNL = 11: CANGL 9394 CLOVETI 520.0002 C5 JJ
 CHNL = 10: CANGL 4192 CROSE CH224.0002 C2 JJ
 CHNL = 9: CANGL 4190 CROSE CH124.0002 C1 JJ
 CHNL = 8: CANGL 5523 CHINTIG2424.0002 C1 JJ
 CHNL = 7: CANGL 7953 COSMGO 6622.0002 C6 JJ

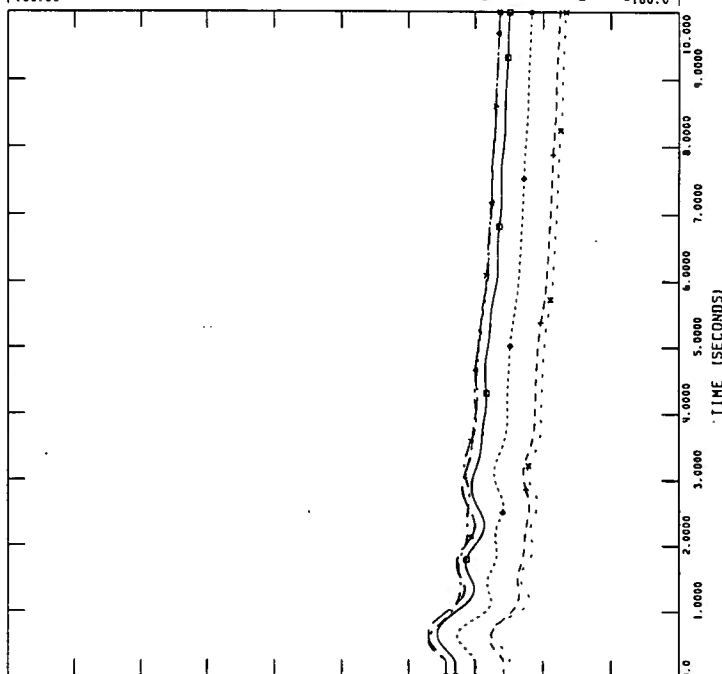


FRI, MAR 31 2000 16:57
 RUN D3A PLOT 2

CASE D54: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
 FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
 CHNL = 24: CANGL 4700 CAV 3 22.0002 C1 JJ

CHNL = 23: CANGL 4702 CAV 3 22.0002 C2 JJ
 CHNL = 22: CANGL 4702 CAV 3 22.0002 C1 JJ
 CHNL = 21: CANGL 9546 CPOLETTI 26.0002 C1 JJ
 CHNL = 20: CANGL 4907 CNATPTG2 22.0002 C1 JJ
 CHNL = 19: CANGL 4906 CNATPTG1 22.0002 C1 JJ

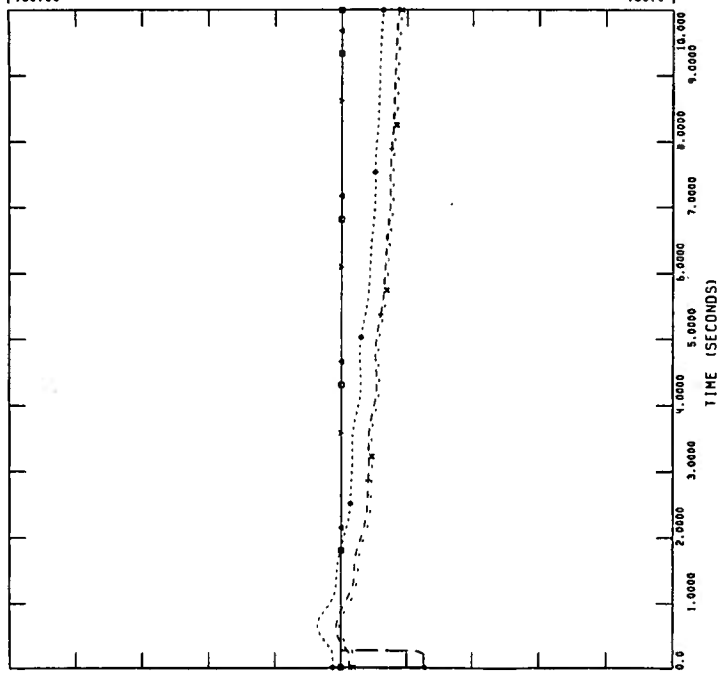


FRI, MAR 31 2000 16:57
 RUN D3A PLOT 4

CASE D54: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
 FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
 CHNL = 6: CANGL 7952 COSMGO 5622.0002 C3 JJ

CHNL = 5: CANGL 9547 CJAF1721624.0002 C1 JJ
 CHNL = 4: CANGL 7950 CSM PT 2625.0002 C2 JJ
 CHNL = 3: CANGL 7951 CSM PT 1623.0002 C1 JJ
 CHNL = 2: CANGL 9548 CIP+3 GEN22.0002 C1 JJ
 CHNL = 1: CANGL 4701 CIND PT 222.0002 C2 JJ

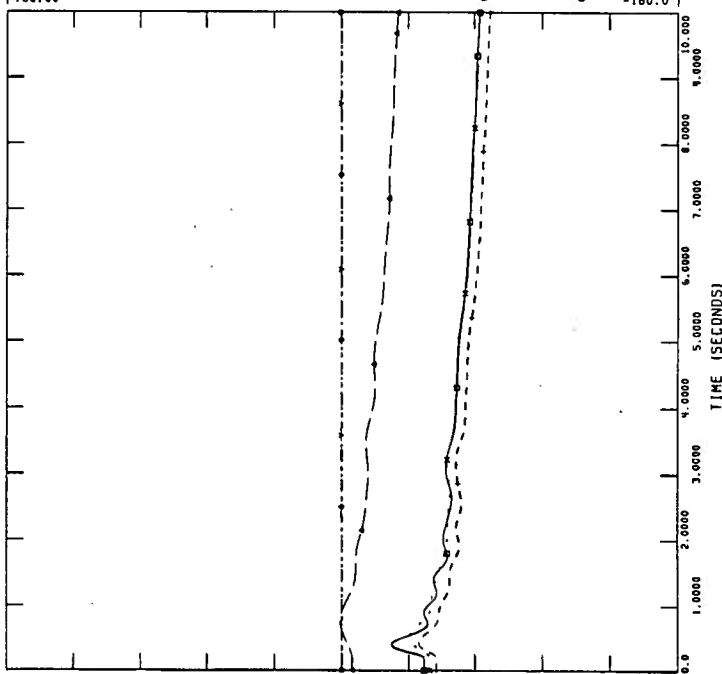


FRI, MAR 31 2000 16:57
 RUN D3A PLOT 1

CASE D54: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
 FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
 CHNL = 18: CANGL 9528 CGLBOR+217.0002 C2 JJ

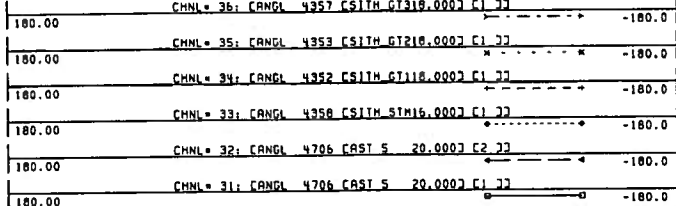
CHNL = 17: CANGL 9527 CGLBOR+117.0002 C1 JJ
 CHNL = 16: CANGL 4193 CORNSK G416.1002 C4 JJ
 CHNL = 15: CANGL 8701 CLEEDS 3 345.002 C1 JJ
 CHNL = 14: CANGL 9940 CGINNA 1919.0002 C1 JJ
 CHNL = 13: CANGL 9391 CROHLINE2020.0002 C2 JJ



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 RUN D3A PLOT 3

CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

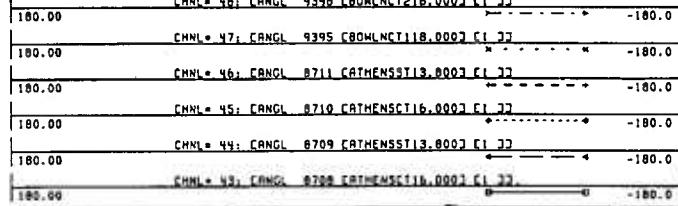
FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
CHNL= 36: CANGL 4357 CSITH 6T218.0007 C1 JJ



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RUN D3A PLOT 6

CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

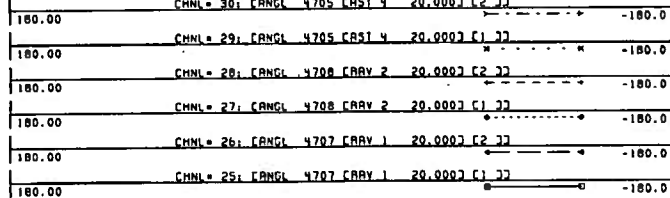
FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
CHNL= 48: CANGL 9396 C80MLNCT118.0007 C1 JJ



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RUN D3A PLOT 8

CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

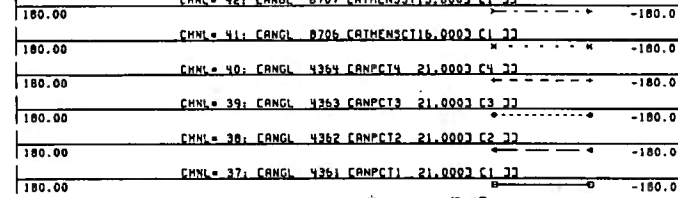
FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
CHNL= 30: CANGL 4705 CASI 4 20.0007 C2 JJ



FRI, MAR 31 2000 16:57
RUN D3A PLOT 5

CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

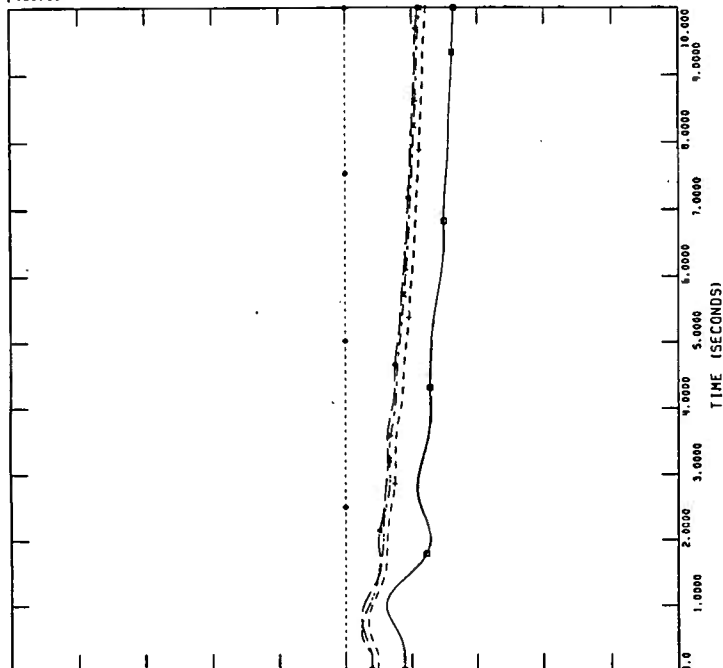
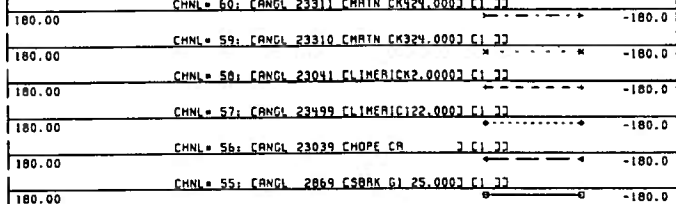
FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
CHNL= 42: CANGL 8707 CATHENSST13.0007 C1 JJ



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RUN D3A PLOT 7

CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

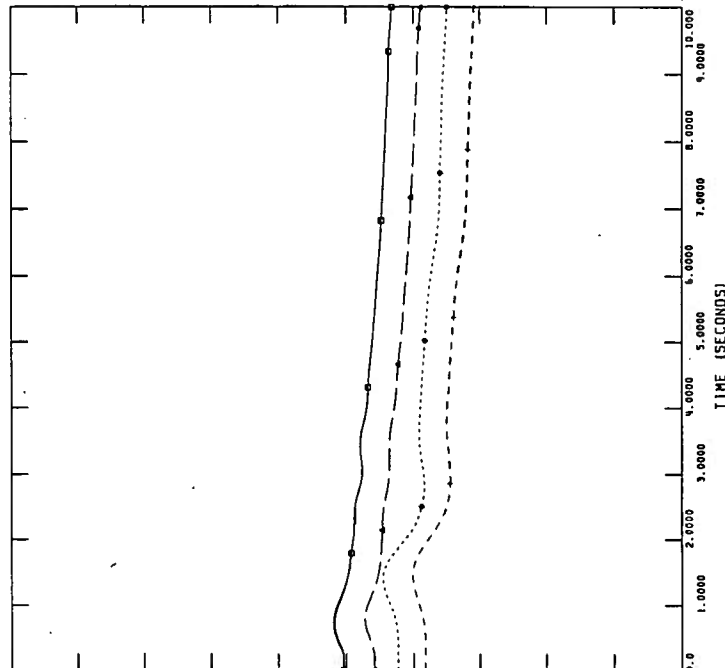
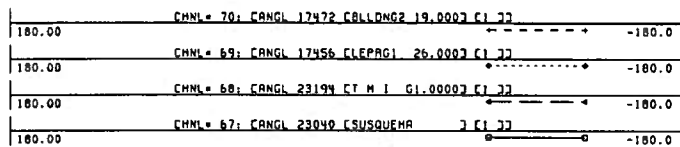
FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
CHNL= 60: CANGL 23311 CHATN CK324.0003 CI JJ



FRI, MAR 31 2000 16:57
RUN D3A PLOT 10

CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

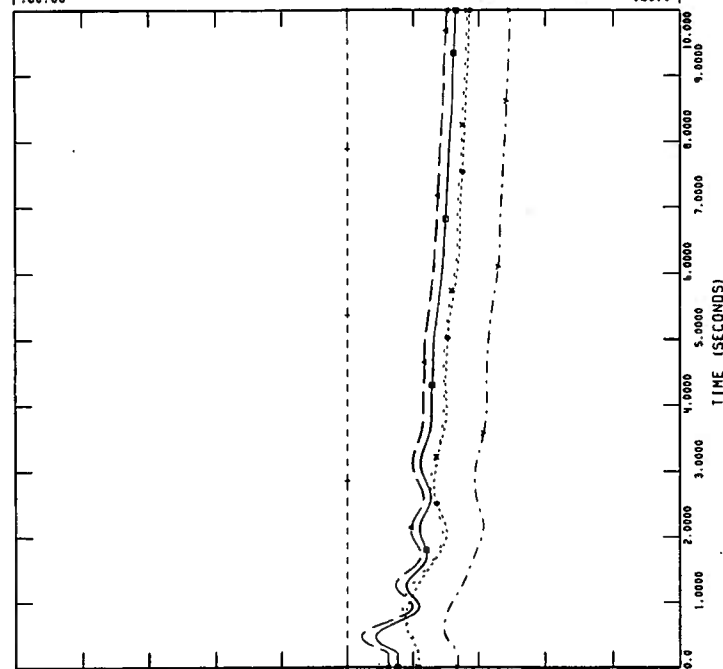
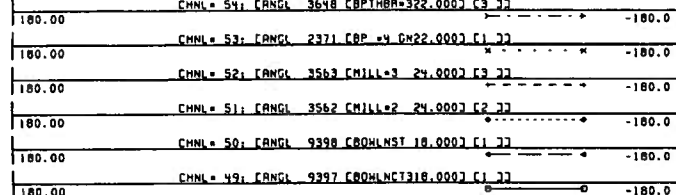
FILE: C:\SEI\Dynamic\DS4RUND3A.OUT



FRI, MAR 31 2000 16:57
RUN D3A PLOT 12

CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

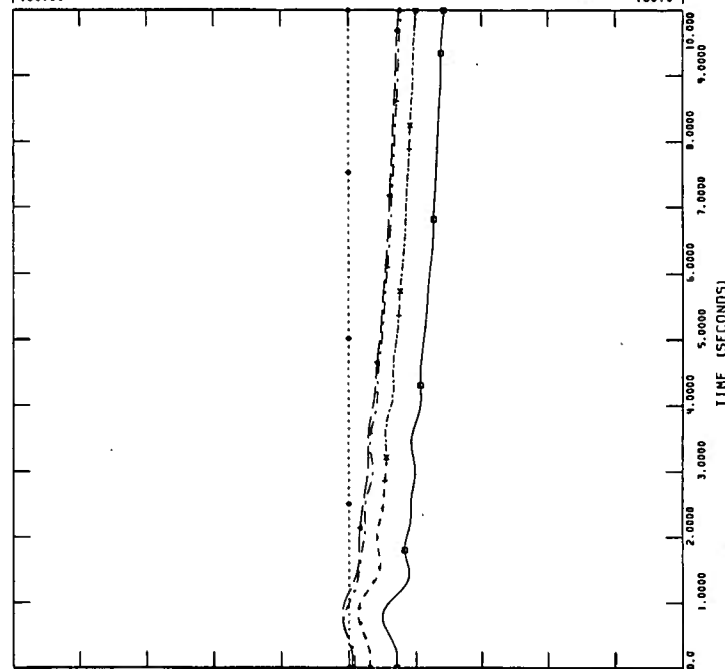
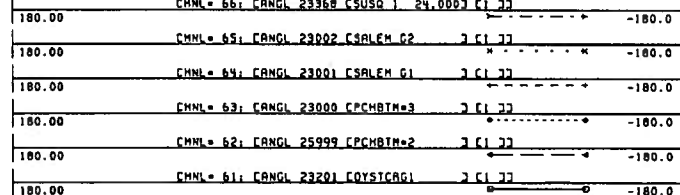
FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
CHNL= 54: CANGL 3648 CBP1H8A=322.0003 C3 JJ



FRI, MAR 31 2000 16:57
RUN D3A PLOT 9

CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
CHNL= 66: CANGL 23368 CSUSQ 1 24.0003 CI JJ

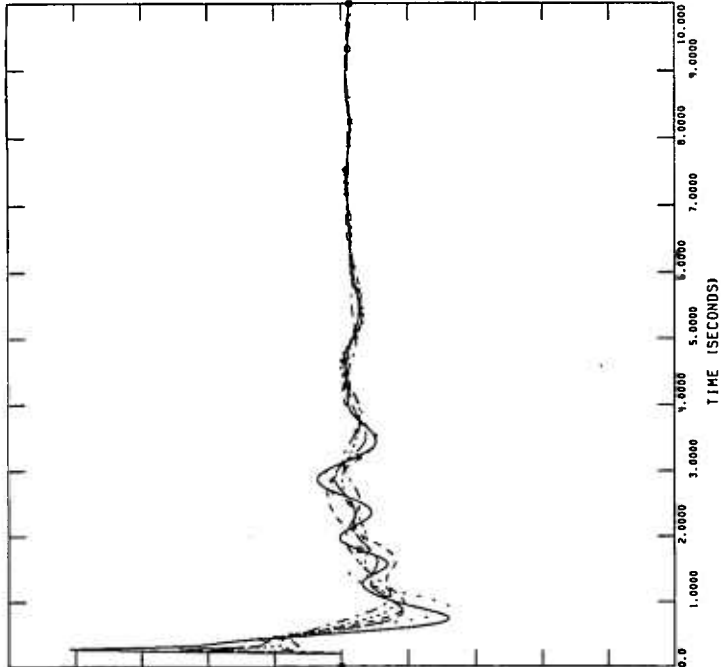


FRI, MAR 31 2000 16:57
RUN D3A PLOT 11

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
CHNL = 705: 60 (1-CFREQ 23003 CALBUT15500.0073)

60.250 59.750
CHNL = 704: 60 (1-CFREQ 4327 CFARAGUT345.0073)
60.250 59.750
CHNL = 703: 60 (1-CFREQ 3105 FLONG MTN345.0073)
60.250 59.750
CHNL = 702: 60 (1-CFREQ 9577 CMARCY765765.0073)
60.250 59.750
CHNL = 701: 60 (1-CFREQ 5403 CFARAS345345.0073)
60.250 59.750
CHNL = 700: 60 (1-CFREQ 4347 CARMARO 345.0073)

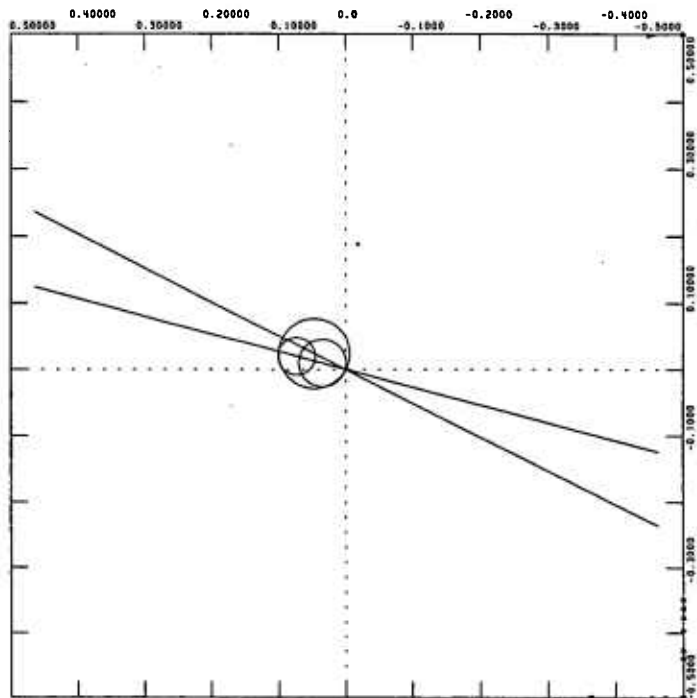


FRI, MAR 31 2000 16:57
RUN D3A PLOT 14

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS4RUND3A.OUT

RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

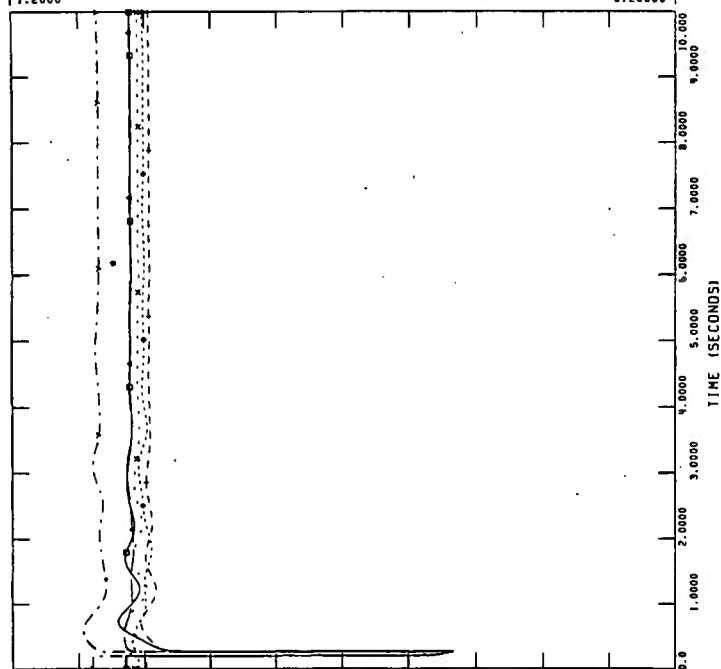


FRI, MAR 31 2000 16:57
RUN D3A PLOT 16

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS4RUND3A.OUT
CHNL = 651: CVOLT 23003 CALBUT15500.0073

1.2000 0.20000
CHNL = 508: CVOLT 4327 CFARAGUT345.0073
1.2000 0.20000
CHNL = 636: CVOLT 3105 FLONG MTN345.0073
1.2000 0.20000
CHNL = 572: CVOLT 9577 CMARCY765765.0073
1.2000 0.20000
CHNL = 545: CVOLT 5403 CFARAS345345.0073
1.2000 0.20000
CHNL = 528: CVOLT 4347 CARMARO 345.0073

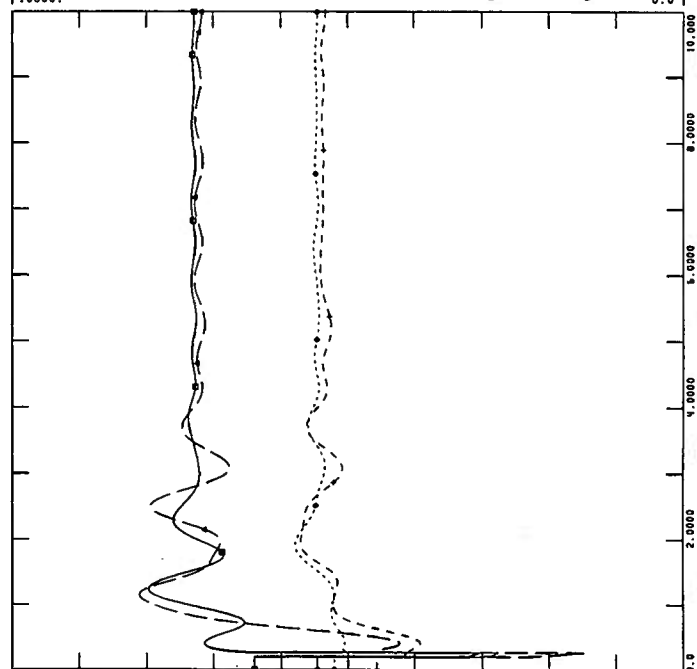


FRI, MAR 31 2000 16:57
RUN D3A PLOT 13

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DS4RUND3A.OUT

CHNL = 699: CMH TOTAL EAST
10000.0 0.0
CHNL = 689: CMH CENTRAL EAST
5000.0 0.0
CHNL = 688: CMH UPNY TO SENY
6000.0 1000.0
CHNL = 687: CMH UPNY TO CONED
10000.0 0.0



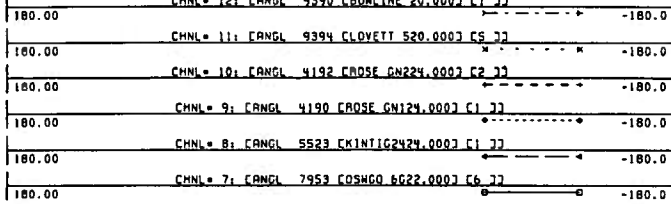
FRI, MAR 31 2000 16:57
RUN D3A PLOT 15

CONTINGENCY D4A

RECOVER FROM D1.SNP AND DS4.CNV
START OUTPUT DS4RUND4A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4347 CKT 1 / TRIP LADENTOWN-RAMAPO
CLEAR FAULT
RUN FOR 31 CYCLES PRINT 0 PLOT 3
APPLY FAULT BUS 4347 IMPEDANCE 0.119 2.642 OHMS BASEKV 345 / RECLOSE AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

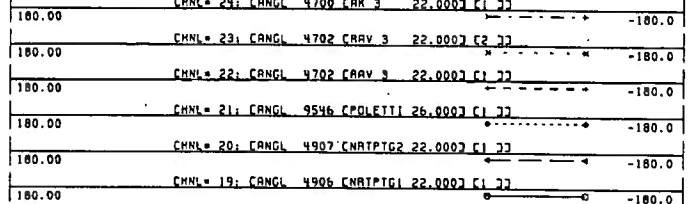
FILE: C:\SEI\Dynamic\DS4RUND4A.OUT
CHNL= 12: CANGI 9390 CROHLINE 20.0007 C1 JJ



FRI, MAR 31 2000 16:57
RUN D4A PLOT 2

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

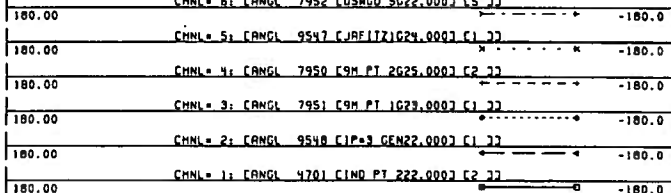
FILE: C:\SEI\Dynamic\DS4RUND4A.OUT
CHNL= 23: CANGI 4702 CARV 3 22.0007 C2 JJ



FRI, MAR 31 2000 16:57
RUN D4A PLOT 4

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

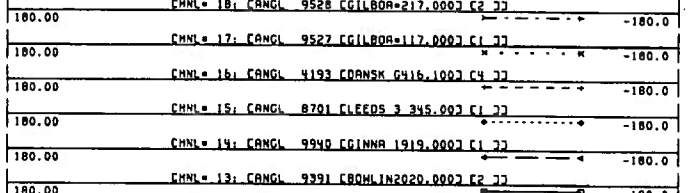
FILE: C:\SEI\Dynamic\DS4RUND4A.OUT
CHNL= 6: CANGI 7952 COSMGO 5622.0007 C5 JJ



FRI, MAR 31 2000 16:57
RUN D4A PLOT 1

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DS4RUND4A.OUT
CHNL= 18: CANGI 9528 CGILBDA=217.0007 C2 JJ

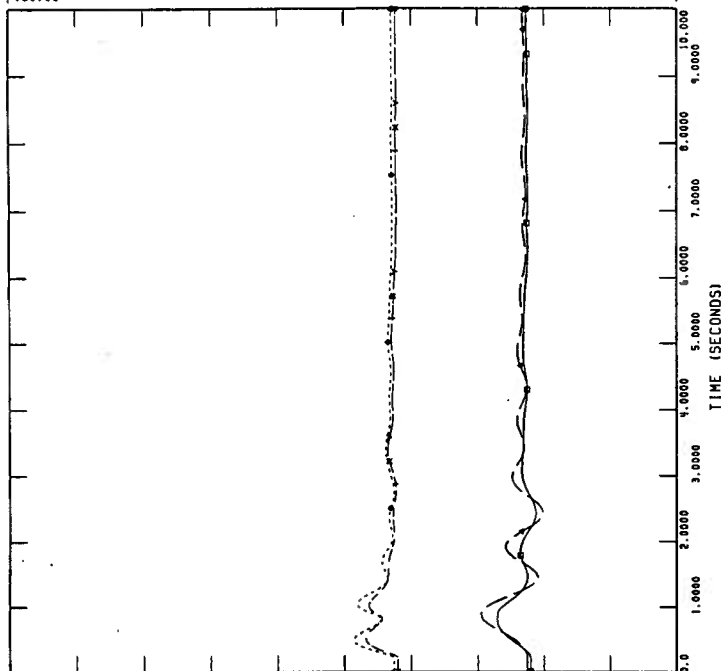


FRI, MAR 31 2000 16:57
RUN D4A PLOT 3

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DS4A\RUND4A.OUT
CHNL= 36: CANGL 4357 CSITH GT18.0007 C1 JJ

180.00 CHNL= 35: CANGL 4353 CSITH GT218.0007 C1 JJ -180.0
180.00 CHNL= 34: CANGL 4352 CSITH GT118.0007 C1 JJ -180.0
180.00 CHNL= 33: CANGL 4358 CSITH STM16.0007 C1 JJ -180.0
180.00 CHNL= 32: CANGL 4706 CAST 5 20.0007 C2 JJ -180.0
180.00 CHNL= 31: CANGL 4706 CAST 5 20.0007 C1 JJ -180.0

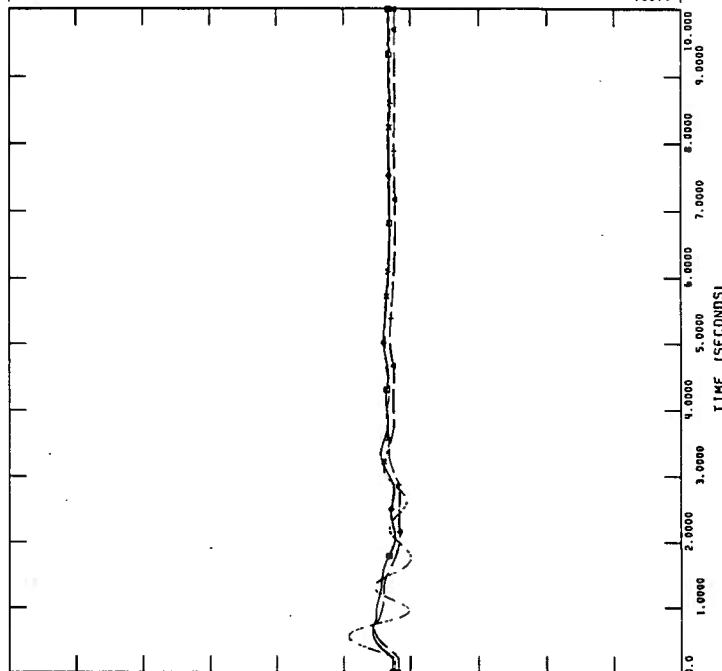


FRI, MAR 31 2000 16:57
RUN D4A PLOT 6

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DS4A\RUND4A.OUT
CHNL= 48: CANGL 9396 CBOWLNC1218.0007 C1 JJ

180.00 CHNL= 47: CANGL 9395 CBOWLNC118.0007 C1 JJ -180.0
180.00 CHNL= 46: CANGL 8711 CATHENSST13.0007 C1 JJ -180.0
180.00 CHNL= 45: CANGL 8710 CATHENSST16.0007 C1 JJ -180.0
180.00 CHNL= 44: CANGL 8709 CATHENSST13.0007 C1 JJ -180.0
180.00 CHNL= 43: CANGL 8708 CATHENSST16.0007 C1 JJ -180.0

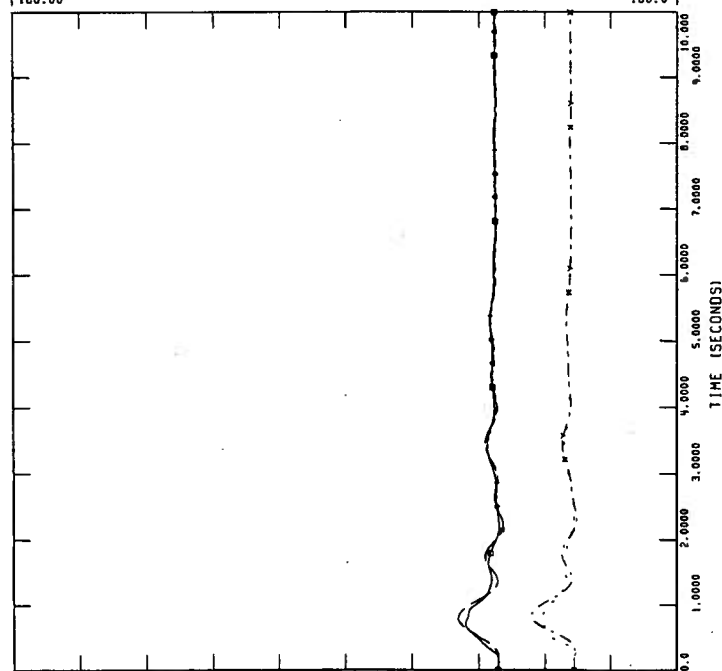


FRI, MAR 31 2000 16:57
RUN D4A PLOT 7

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DS4A\RUND4A.OUT
CHNL= 30: CANGL 4705 CAST 4 20.0007 C2 JJ

180.00 CHNL= 29: CANGL 4705 CAST 4 20.0007 C1 JJ -180.0
180.00 CHNL= 28: CANGL 4708 CARV 2 20.0007 C2 JJ -180.0
180.00 CHNL= 27: CANGL 4708 CARV 2 20.0007 C1 JJ -180.0
180.00 CHNL= 26: CANGL 4707 CARV 1 20.0007 C2 JJ -180.0
180.00 CHNL= 25: CANGL 4707 CARV 1 20.0007 C1 JJ -180.0

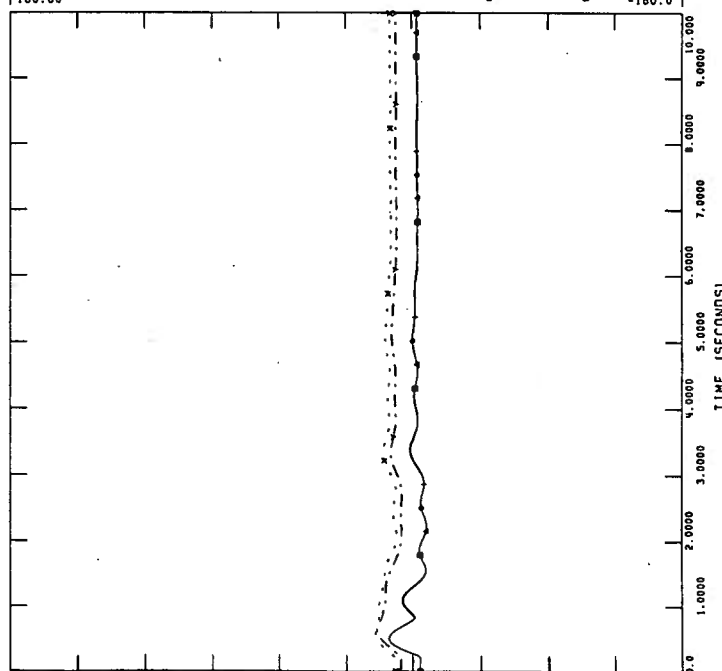


FRI, MAR 31 2000 16:57
RUN D4A PLOT 5

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DS4A\RUND4A.OUT
CHNL= 42: CANGL 8707 CATHENSST13.0007 C1 JJ

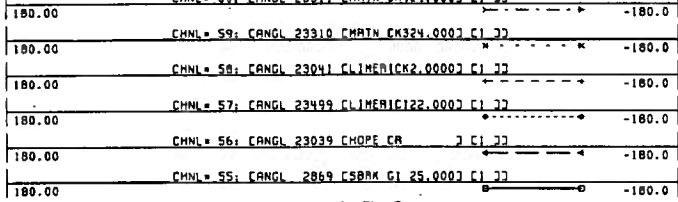
180.00 CHNL= 41: CANGL 8706 CATHENSST16.0007 C1 JJ -180.0
180.00 CHNL= 40: CANGL 4364 CANPCT4 21.0007 C4 JJ -180.0
180.00 CHNL= 39: CANGL 4363 CANPCT3 21.0007 C3 JJ -180.0
180.00 CHNL= 38: CANGL 4362 CANPCT2 21.0007 C2 JJ -180.0
180.00 CHNL= 37: CANGL 4361 CANPCT1 21.0007 C1 JJ -180.0



FRI, MAR 31 2000 16:57
RUN D4A PLOT 8



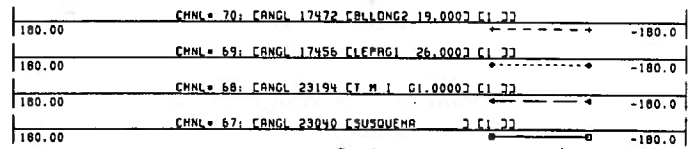
CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\dynamics\DS4A\RUND4A.OUT
CHNL= 59: CANGL 23310 CMTN CK324.0000 C1 JJ



FRI, MAR 31 2000 16:57
RUN D4A PLOT 10



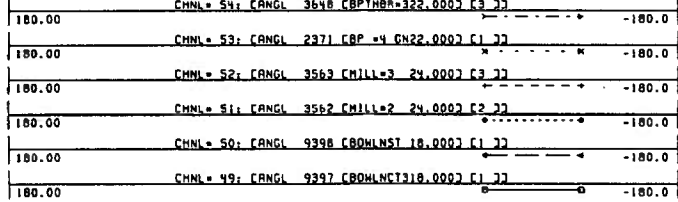
CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\dynamics\DS4A\RUND4A.OUT



FRI, MAR 31 2000 16:57
RUN D4A PLOT 12



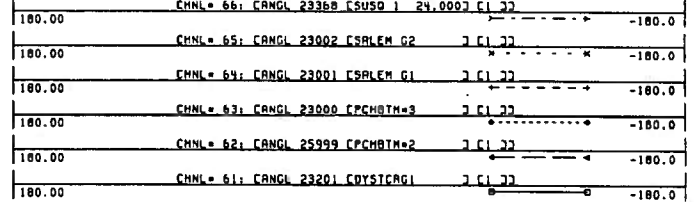
CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\dynamics\DS4A\RUND4A.OUT
CHNL= 54: CANGL 3648 CBPTNAB=322.0000 C3 JJ



FRI, MAR 31 2000 16:57
RUN D4A PLOT 9



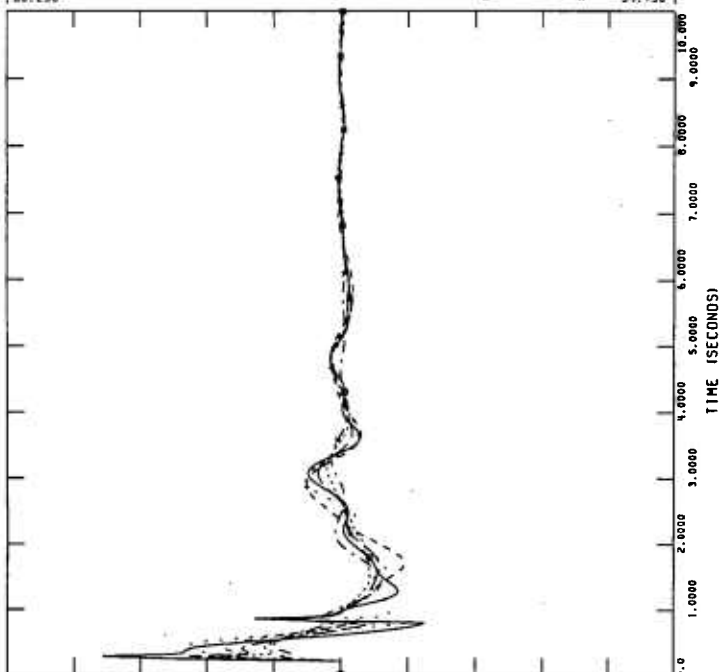
CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\dynamics\DS4A\RUND4A.OUT
CHNL= 66: CANGL 23368 CSUSO 1 24.0000 C1 JJ



FRI, MAR 31 2000 16:57
RUN D4A PLOT 11

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS4AUND4A.OUT

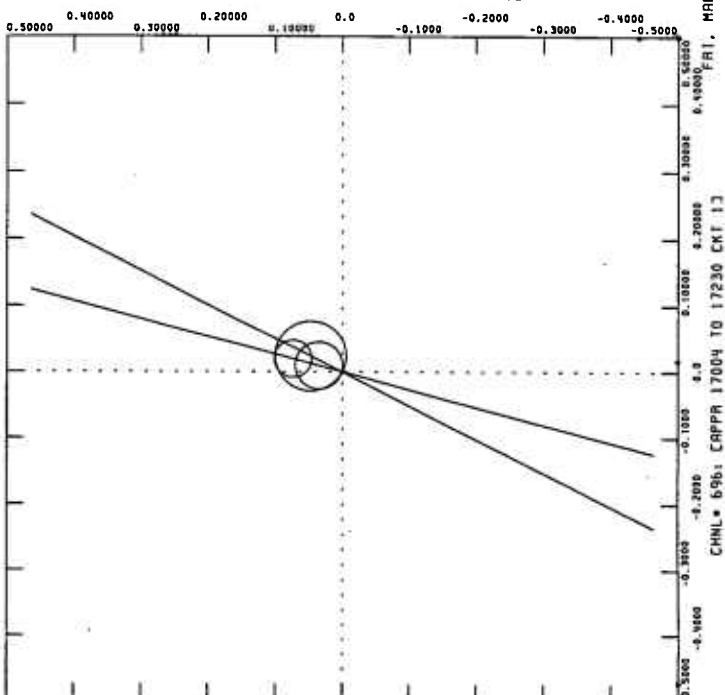
CHNL= 795: 60=11-CFREQ 23693 CALBUT13500.00771
CHNL= 794: 60=11-CFREQ 4327 CFARAGUT345.00771
CHNL= 793: 60=11-CFREQ 3105 CLONG MTN345.00771
CHNL= 792: 60=11-CFREQ 9577 CHACRY765765.00771
CHNL= 791: 60=11-CFREQ 5493 CFARAG345345.00771
CHNL= 790: 60=11-CFREQ 4347 CARAP0 345.00771



FRI, MAR 31 2000 16:57
RUN D4A PLOT 14

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS4AUND4A.OUT

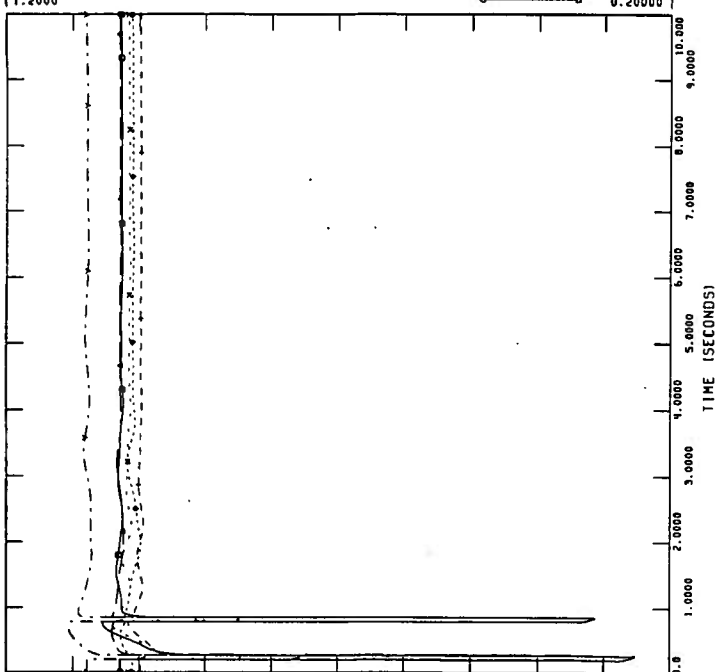
RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL= 697: CAPPX 17004 TO 17230 CKT 13



FRI, MAR 31 2000 16:57
RUN D4A PLOT 15

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS4AUND4A.OUT

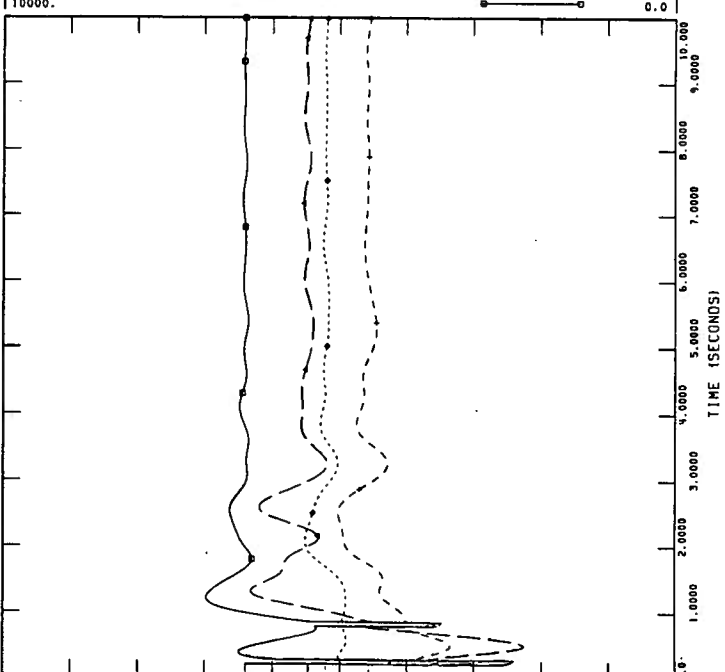
CHNL= 651: CVOLT 23003 CALBUT13500.00771
CHNL= 508: CVOLT 4327 CFARAGUT345.00771
CHNL= 636: CVOLT 3105 CLONG MTN345.00771
CHNL= 572: CVOLT 9577 CHACRY765765.00771
CHNL= 545: CVOLT 5493 CFARAG345345.00771
CHNL= 528: CVOLT 4347 CARAP0 345.00771



FRI, MAR 31 2000 16:57
RUN D4A PLOT 16

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DS4AUND4A.OUT

CHNL= 690: CMW TOTAL EAST
CHNL= 689: CMW CENTRAL EAST
CHNL= 688: CMW UPNY TO SENE
CHNL= 687: CMW UPNY TO CONE



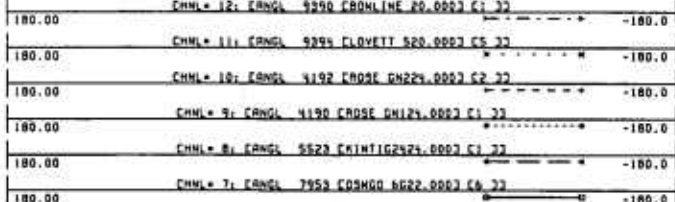
FRI, MAR 31 2000 16:57
RUN D4A PLOT 17

CONTINGENCY D4B

RECOVER FROM D1.SNP AND DS4.CNV
START OUTPUT DS4RUND4B.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

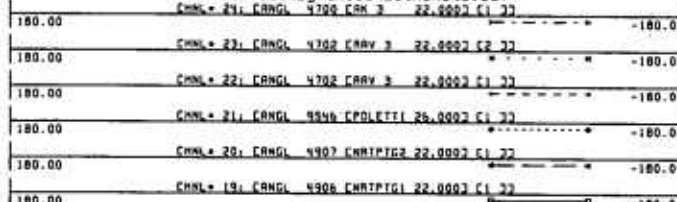
FILE: C:\SEI\Dynamic\054RUND48.OUT
 CHNL = 12: CANGL 9290 CROVETT 20.0002 C1 22



FRI, MAR 31 2000 17:03
 RUN 048 PLOT 2

CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

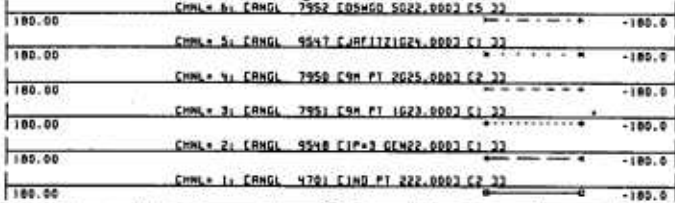
FILE: C:\SEI\Dynamic\054RUND48.OUT
 CHNL = 23: CANGL 4702 CARY 3 22.0002 C2 22



FRI, MAR 31 2000 17:03
 RUN 048 PLOT 4

CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

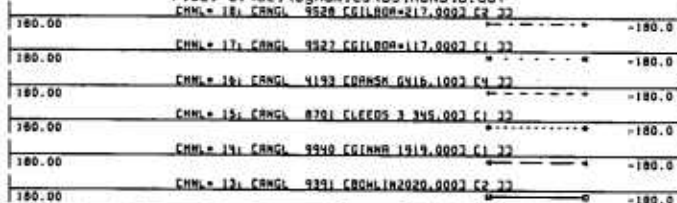
FILE: C:\SEI\Dynamic\054RUND48.OUT
 CHNL = 6: CANGL 7952 CASHG0 5022.0002 C5 22



FRI, MAR 31 2000 17:03
 RUN 048 PLOT 1

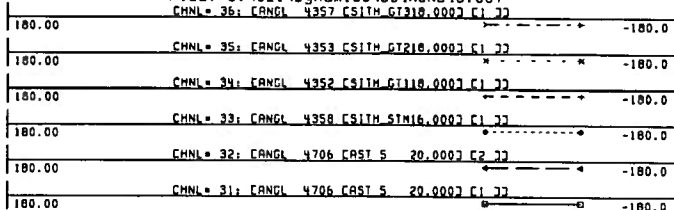
CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\054RUND48.OUT
 CHNL = 18: CANGL 9528 CILLON0 217.0002 C3 22



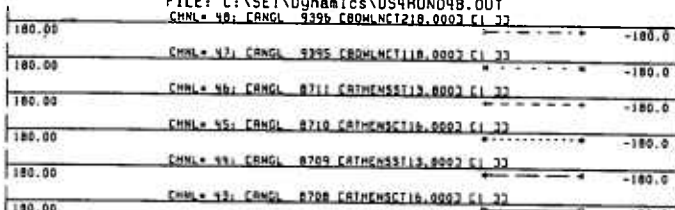
FRI, MAR 31 2000 17:03
 RUN 048 PLOT 3

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\odynamics\DS4RUND4B.OUT
 CHNL = 36: CANGL 4357 CSITH 6T218.0002 C1 JJ



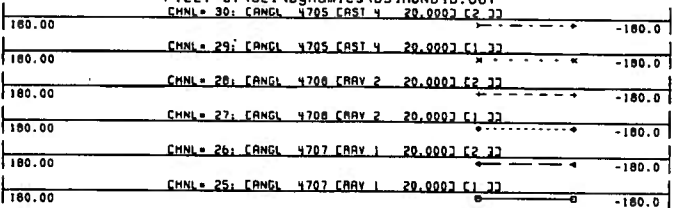
FRI, MAR 31 2000 17:03
 RUN D4B PLOT 6

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\odynamics\DS4RUND4B.OUT
 CHNL = 48: CANGL 9396 C80WLNCT18.0002 C1 JJ



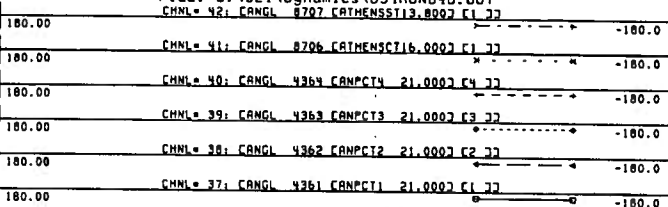
FRI, MAR 31 2000 17:03
 RUN D4B PLOT 7

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\odynamics\DS4RUND4B.OUT
 CHNL = 39: CANGL 4705 CAST 4 20.0002 C2 JJ



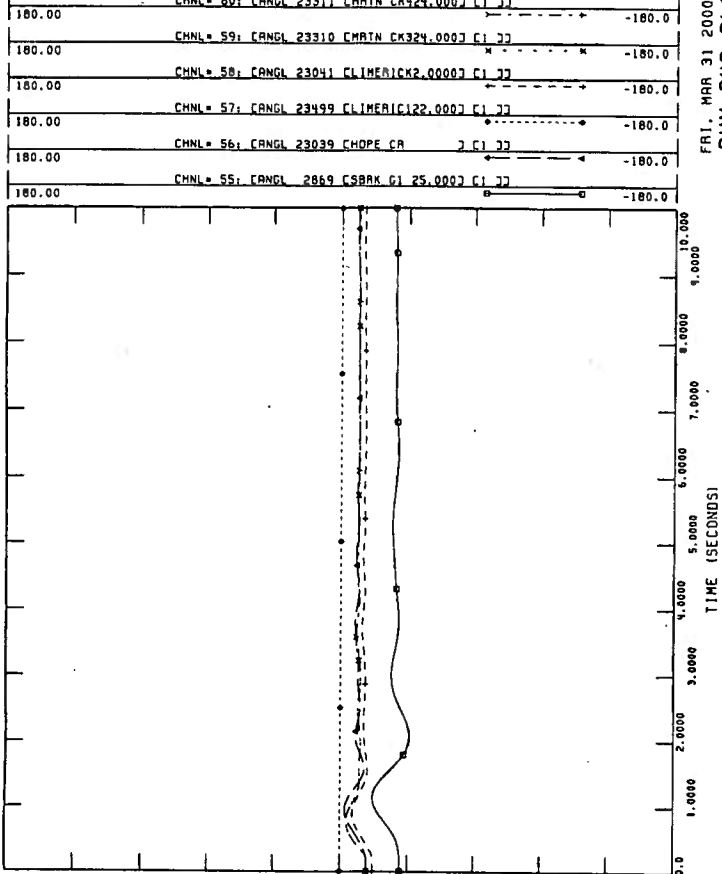
FRI, MAR 31 2000 17:03
 RUN D4B PLOT 8

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\odynamics\DS4RUND4B.OUT
 CHNL = 42: CANGL 8707 CATHENSCT18.0002 C1 JJ



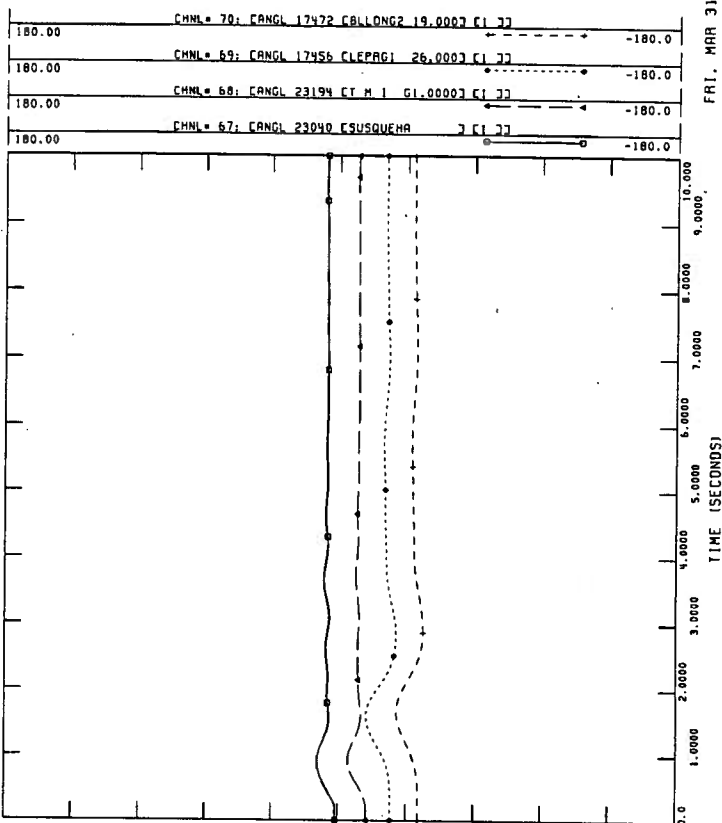
FRI, MAR 31 2000 17:03
 RUN D4B PLOT 9

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DS4RUN048.OUT
 CHNL = 60: CANGI 2331 CHRTN CK324.0007 C1 JJ



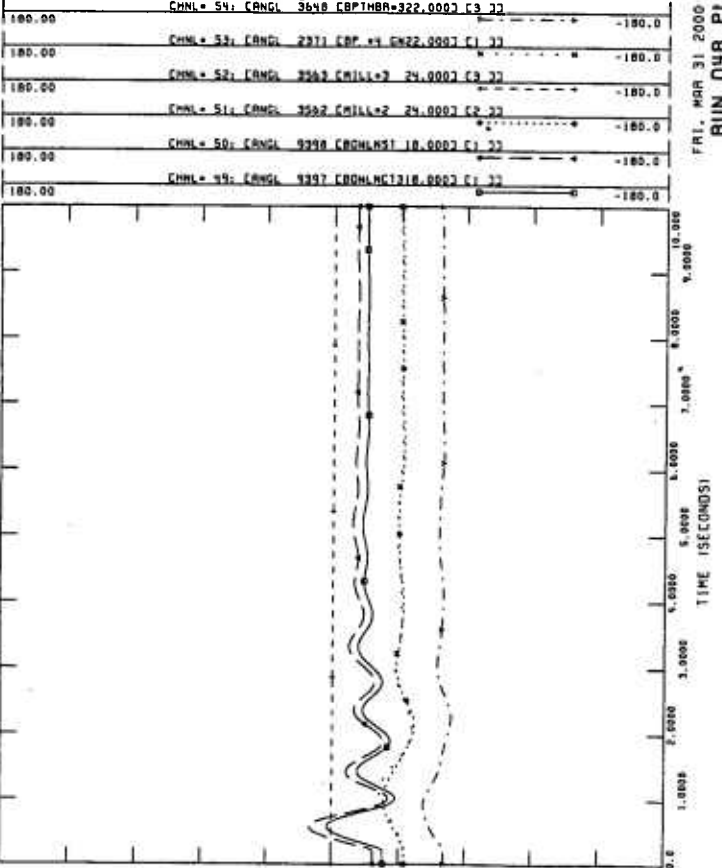
FRI, MAR 31 2000 17:03
 RUN D48 PLOT 10

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DS4RUN048.OUT



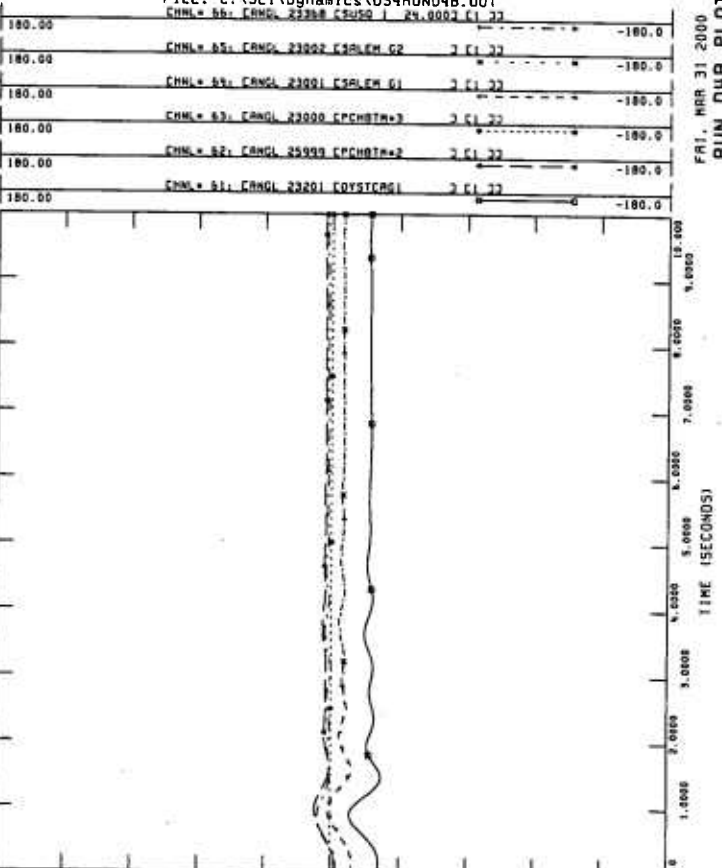
FRI, MAR 31 2000 17:03
 RUN D48 PLOT 11

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DS4RUN048.OUT
 CHNL = 54: CANGI 3648 CBPTMBA322.0007 C3 JJ



FRI, MAR 31 2000 17:03
 RUN D48 PLOT 12

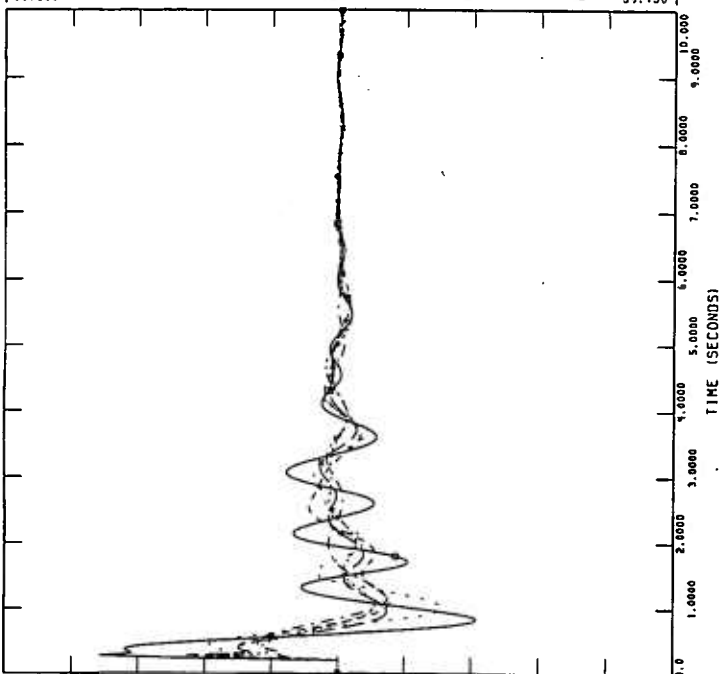
CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DS4RUN048.OUT
 CHNL = 66: CANGI 2338 CSUSA 1 24.0007 C1 JJ



FRI, MAR 31 2000 17:03
 RUN D48 PLOT 13

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamics\DS4RUND4B.OUT
 CHNL = 705: 60*(1-CFREQ 23003 CALBUAT15500.0033)

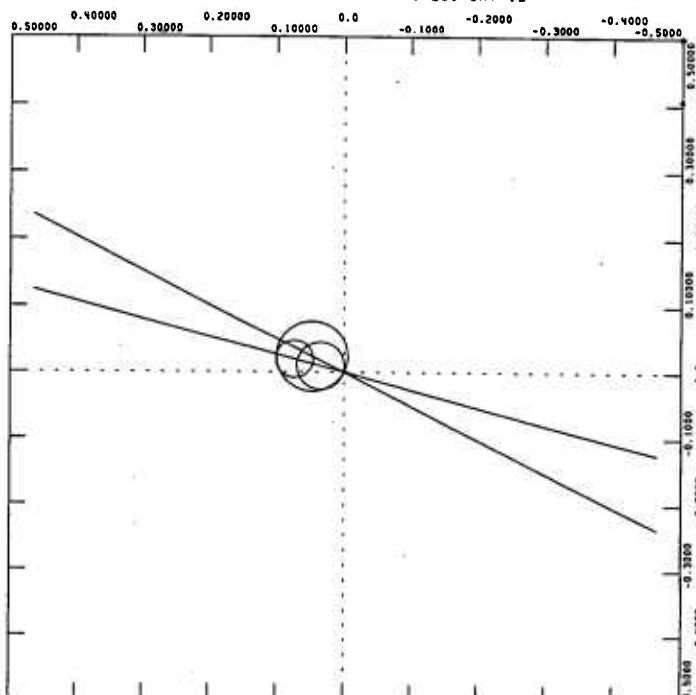
60.250 CHNL = 704: 60*(1-CFREQ 4327 CFARAGUT345.0033) 59.750
 60.250 CHNL = 703: 60*(1-CFREQ 3105 CLONG MTN345.0033) 59.750
 60.250 CHNL = 702: 60*(1-CFREQ 9577 CMARCY765765.0033) 59.750
 60.250 CHNL = 701: 60*(1-CFREQ 5403 CFARAS345345.0033) 59.750
 60.250 CHNL = 700: 60*(1-CFREQ 4347 CARAPQ 345.0033) 59.750



FRI, MAR 31 2000 17:03
 RUN D4B PLOT 14

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamics\DS4RUND4B.OUT

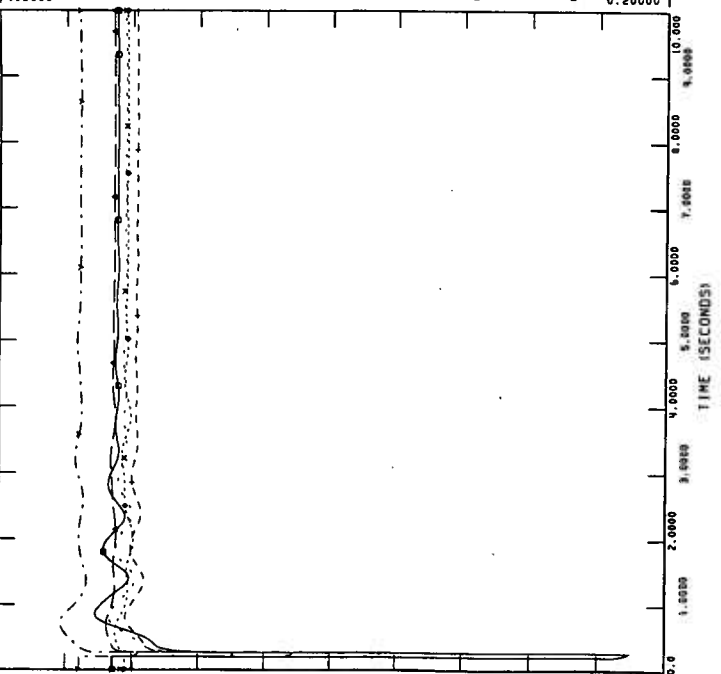
RELAY: DISTR
 TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
 CHNL = 697: CAPX 17004 TO 17230 CKT 13



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 RUN D4B PLOT 15

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamics\DS4RUND4B.OUT
 CHNL = 651: CVOLT 23003 CALBUAT15500.0033

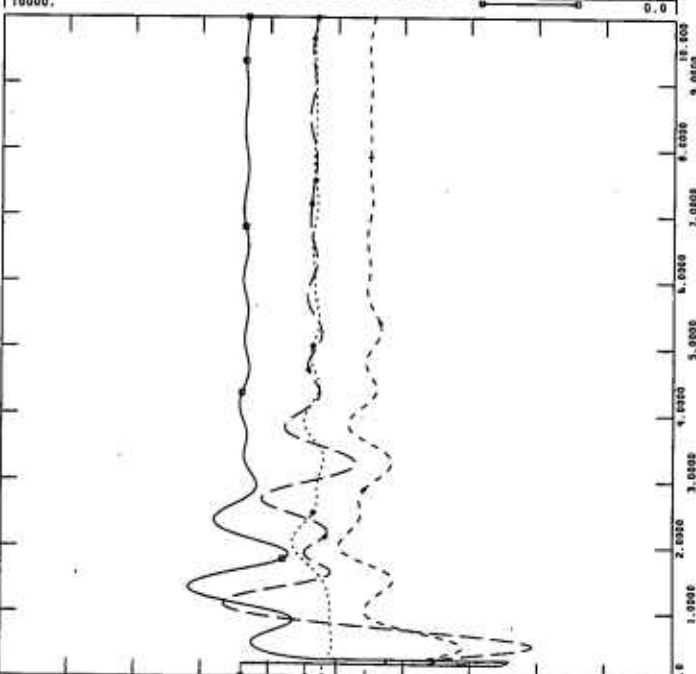
1.2000 CHNL = 508: CVOLT 4327 CFARAGUT345.0033 0.20000
 1.2000 CHNL = 636: CVOLT 3105 CLONG MTN345.0033 0.20000
 1.2000 CHNL = 572: CVOLT 9577 CMARCY765765.0033 0.20000
 1.2000 CHNL = 545: CVOLT 5403 CFARAS345345.0033 0.20000
 1.2000 CHNL = 528: CVOLT 4347 CARAPQ 345.0033 0.20000



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 RUN D4B PLOT 16

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamics\DS4RUND4B.OUT

CHNL = 690: CHN TOTAL EAST3
 CHNL = 689: CHN CENTRAL EAST3
 CHNL = 688: CHN UPNY TO SENT3
 CHNL = 687: CHN UPNY TO CONED3

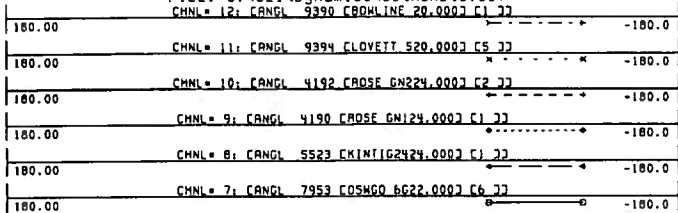


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 RUN D4B PLOT 17

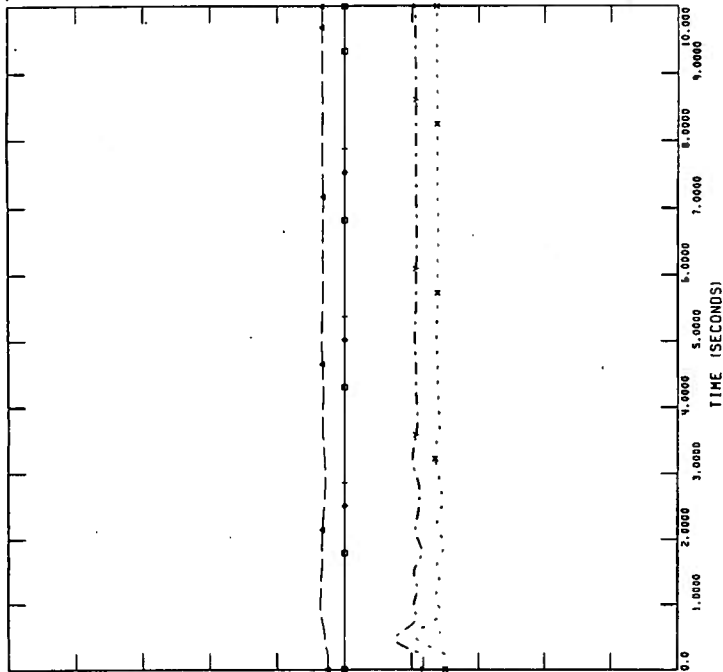
CONTINGENCY D4C

RECOVER FROM D1.SNP AND DS4.CNV
START OUTPUT DS4RUND4C.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4312 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN N
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4312 TO BUS 4317 CKT 1 / TRIP BUCHANAN-EASTVIEW
TRIP BRANCH FROM BUS 4317 TO BUS 4428 CKT 1 / TRIP EASTVIEW XFMR
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

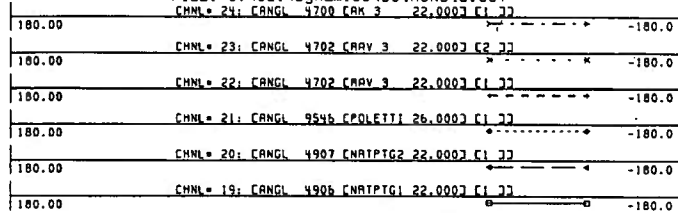
CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS4RUND4C.OUT
CHNL = 12: CANGL 9390 CROMLINE 20.0000 C1 JJ



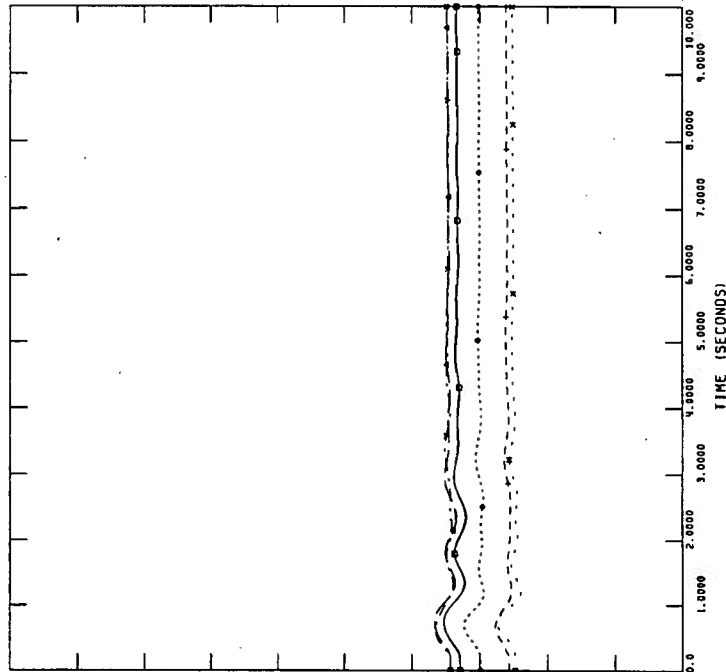
FRI, MAR 31 2000 17:03
RUN D4C PLOT 2



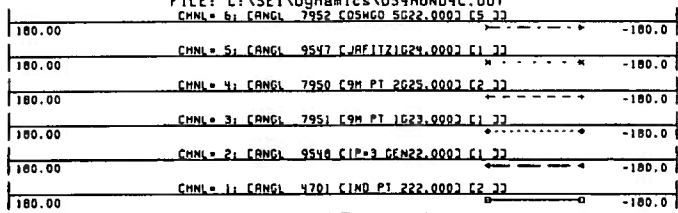
CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS4RUND4C.OUT
CHNL = 24: CANGL 4709 CAX 3 22.0000 C1 JJ



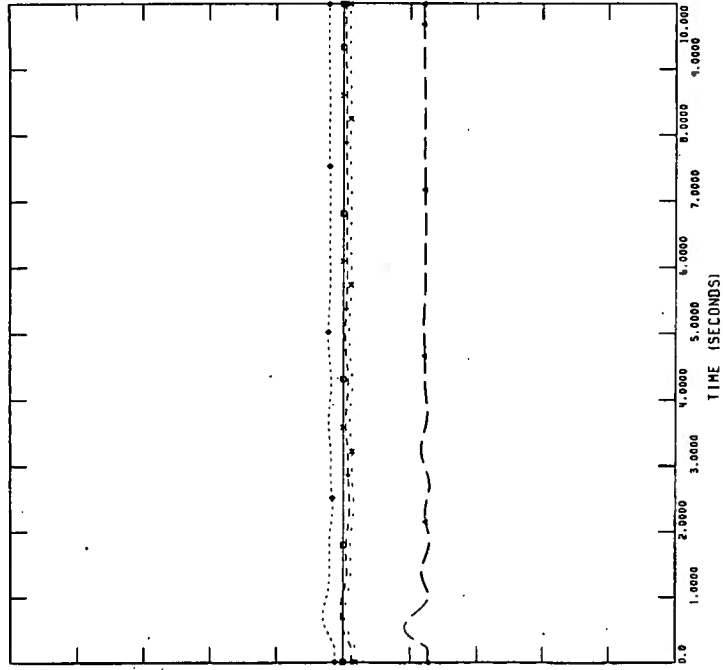
FRI, MAR 31 2000 17:03
RUN D4C PLOT 4



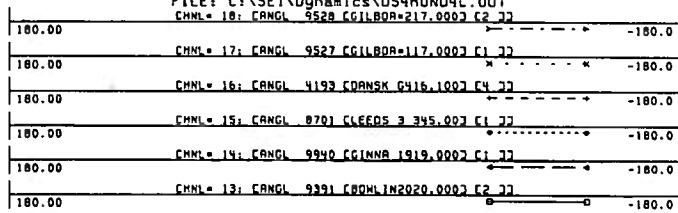
CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS4RUND4C.OUT
CHNL = 6: CANGL 7952 C05M60 5G22.0000 C5 JJ



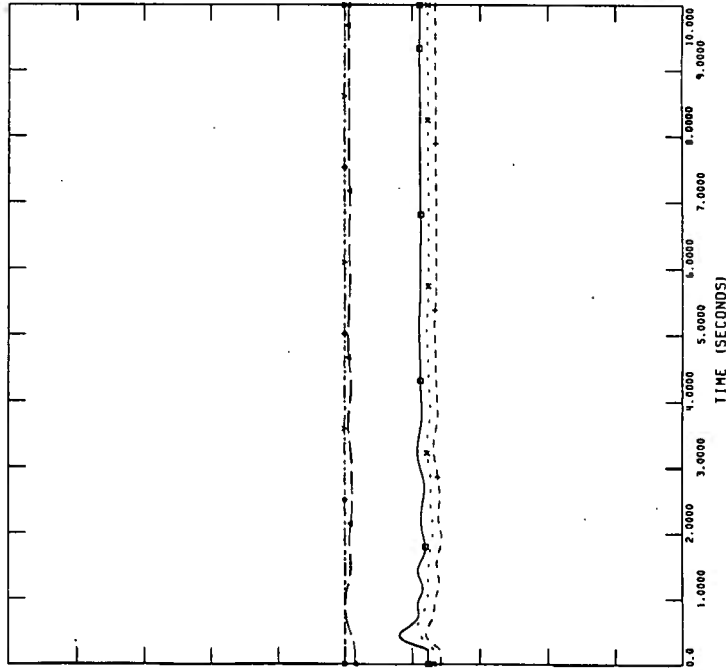
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RUN D4C PLOT 1



CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DS4RUND4C.OUT
CHNL = 18: CANGL 9528 C01L80R=217.0000 C2 JJ

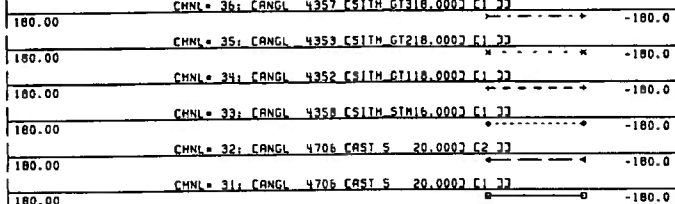


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RUN D4C PLOT 3



CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

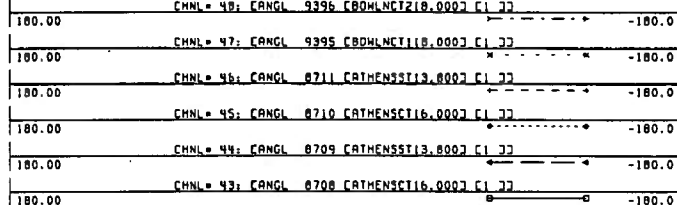
FILE: C:\SEI\Dynamic\DS4RUND4C.OUT
CHNL = 36; CANGL 4357 CSITH GT18.0000 C1 JJ



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RUN 04C PLOT 6

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

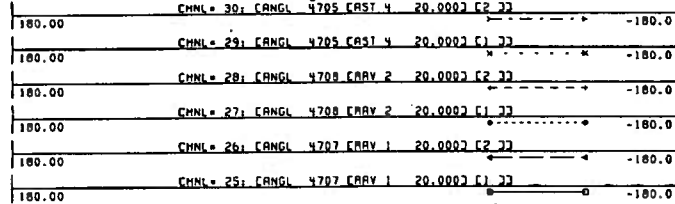
FILE: C:\SEI\Dynamic\DS4RUND4C.OUT
CHNL = 48; CANGL 9396 CB04LNCT18.0000 C1 JJ



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RUN 04C PLOT 7

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

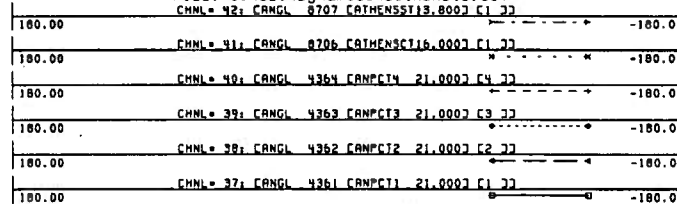
FILE: C:\SEI\Dynamic\DS4RUND4C.OUT
CHNL = 30; CANGL 4705 EAST Y 20.0000 C2 JJ



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RUN 04C PLOT 5

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

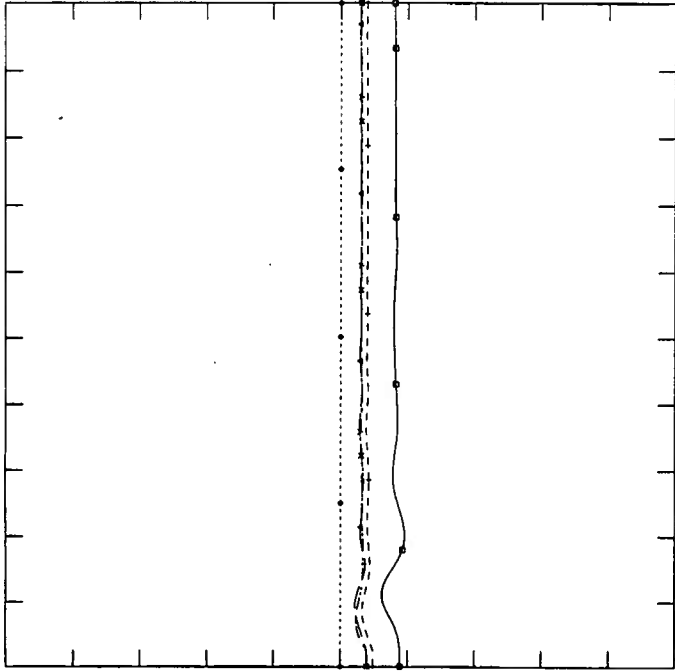
FILE: C:\SEI\Dynamic\DS4RUND4C.OUT
CHNL = 42; CANGL 8707 CATHENSCT18.0000 C1 JJ



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RUN 04C PLOT 7

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
 FILE: C:\SEI\Dynamics\DS4RUND4C.OUT
 CHNL = 60: CANGI 23311 CMATN CK424.0007 C1 JJ

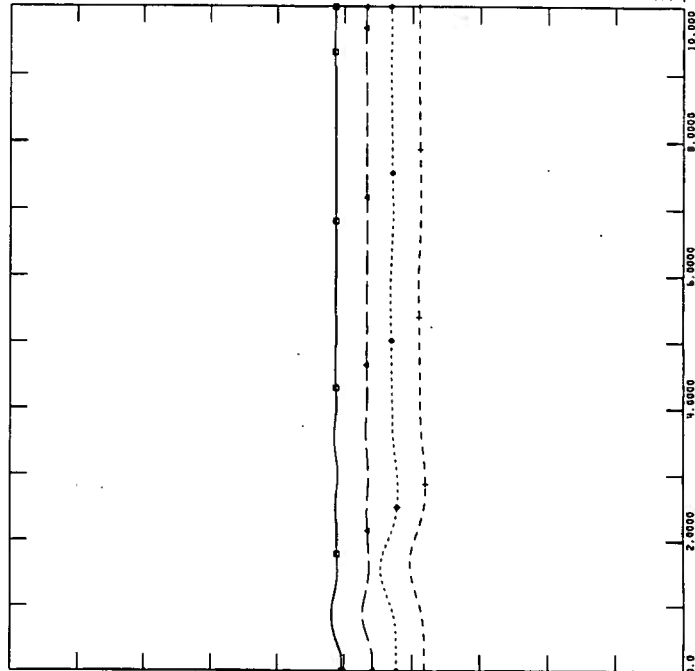
CHNL = 59: CANGI 23310 CMATN CK424.0007 C1 JJ
 CHNL = 58: CANGI 23041 CLIMERICK2.00007 C1 JJ
 CHNL = 57: CANGI 23499 CLIMERICK22.0007 C1 JJ
 CHNL = 56: CANGI 23039 CHOPE CR 7 C1 JJ
 CHNL = 55: CANGI 2069 CSRAK G1 25.0007 C1 JJ



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 RUN D4C PLOT 10

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
 FILE: C:\SEI\Dynamics\DS4RUND4C.OUT

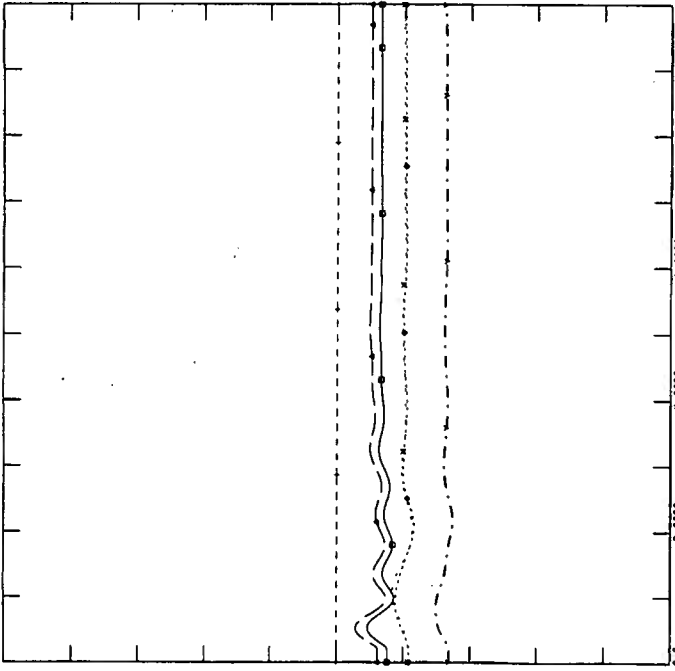
CHNL = 70: CANGI 17472 CBLONG2 19.0007 C1 JJ
 CHNL = 69: CANGI 17456 CLEPRG1 26.0007 C1 JJ
 CHNL = 68: CANGI 23194 CT M I G1.00007 C1 JJ
 CHNL = 67: CANGI 23040 CSUSQUEHA 7 C1 JJ



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 RUN D4C PLOT 12

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
 FILE: C:\SEI\Dynamics\DS4RUND4C.OUT
 CHNL = 59: CANGI 3640 CBPTNAB=322.0007 C3 JJ

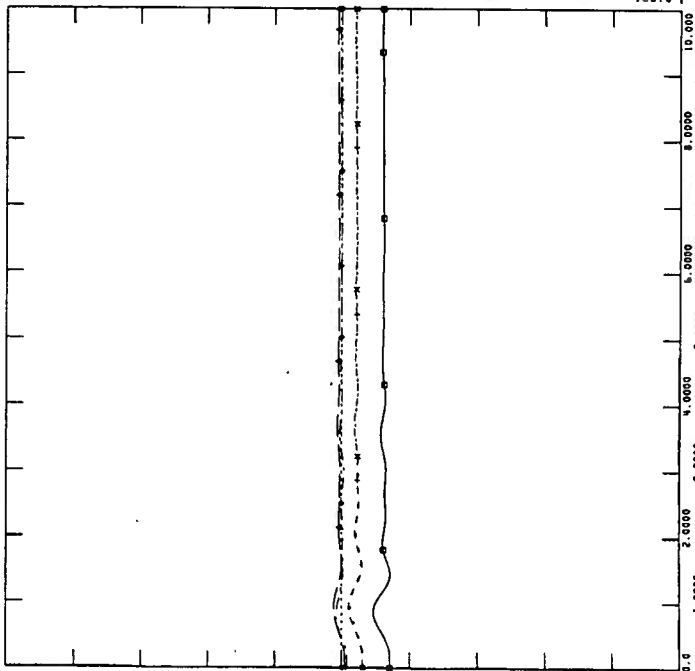
CHNL = 53: CANGI 2371 CBP=4 GN22.0007 C1 JJ
 CHNL = 52: CANGI 3563 CMILL=3 24.0007 C3 JJ
 CHNL = 51: CANGI 3562 CMILL=2 24.0007 C2 JJ
 CHNL = 50: CANGI 9398 CBOWLNST 18.0007 C1 JJ
 CHNL = 49: CANGI 9397 CBOWLNCT1318.0007 C1 JJ



FRI, MAR 31 2000 17:03
 RUN D4C PLOT 9

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
 FILE: C:\SEI\Dynamics\DS4RUND4C.OUT
 CHNL = 66: CANGI 23368 CSUSQ 1 24.0007 C1 JJ

CHNL = 65: CANGI 23002 CSALEM G2 7 C1 JJ
 CHNL = 64: CANGI 23001 CSALEM G1 7 C1 JJ
 CHNL = 63: CANGI 23000 CPCHBTM=3 7 C1 JJ
 CHNL = 62: CANGI 25999 CPCHBTM=2 7 C1 JJ
 CHNL = 61: CANGI 23201 CRYSTCAG1 7 C1 JJ

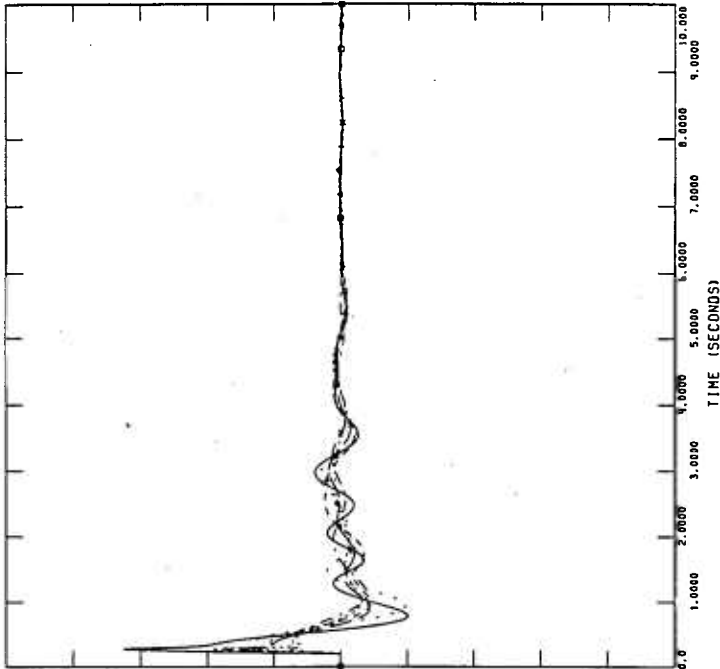


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 RUN D4C PLOT 11

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamics\DS4RUND4C.OUT
 CHNL = 705: 60*(1-CFREQ 23003 CALBUAT15500.0033)

60.250 CHNL = 704: 60*(1-CFREQ 4327 CFARAGUT345.0033) 59.750
 60.250 CHNL = 703: 60*(1-CFREQ 3105 CLONG MTN345.0033) 59.750
 60.250 CHNL = 702: 60*(1-CFREQ 9577 CMARCY765765.0033) 59.750
 60.250 CHNL = 701: 60*(1-CFREQ 5403 CFARAS345345.0033) 59.750
 60.250 CHNL = 700: 60*(1-CFREQ 4347 CFARAPD 345.0033) 59.750

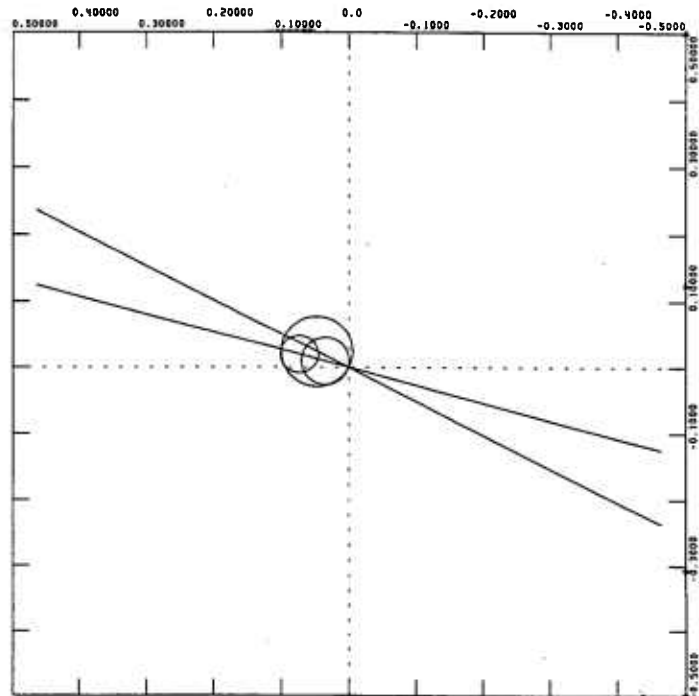


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 RUN D4C PLOT 14

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamics\DS4RUND4C.OUT

RELAY: DISTR
 TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
 CHNL = 697: CAPPX 17004 TO 17230 CKT 13

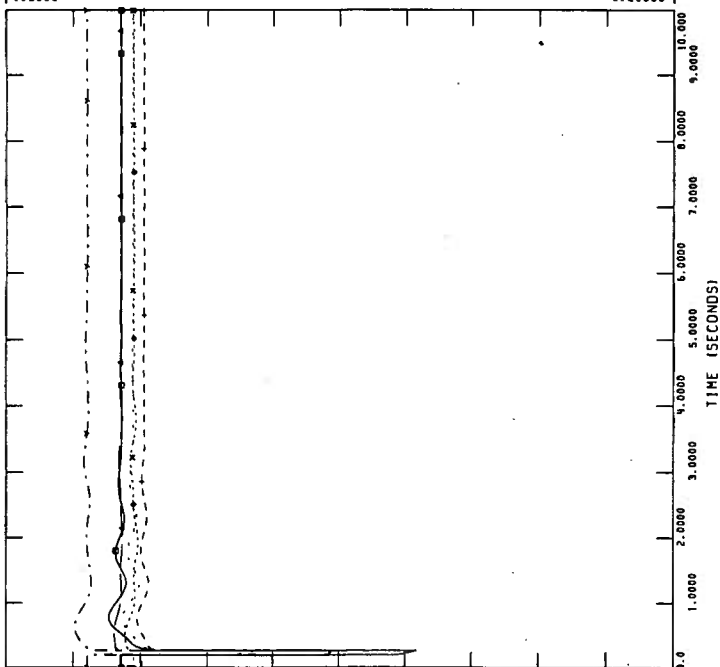


FRI, MAR 31 2000 17:03
 RUN D4C PLOT 16

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamics\DS4RUND4C.OUT
 CHNL = 651: CVOLT 23003 CALBUAT15500.0033

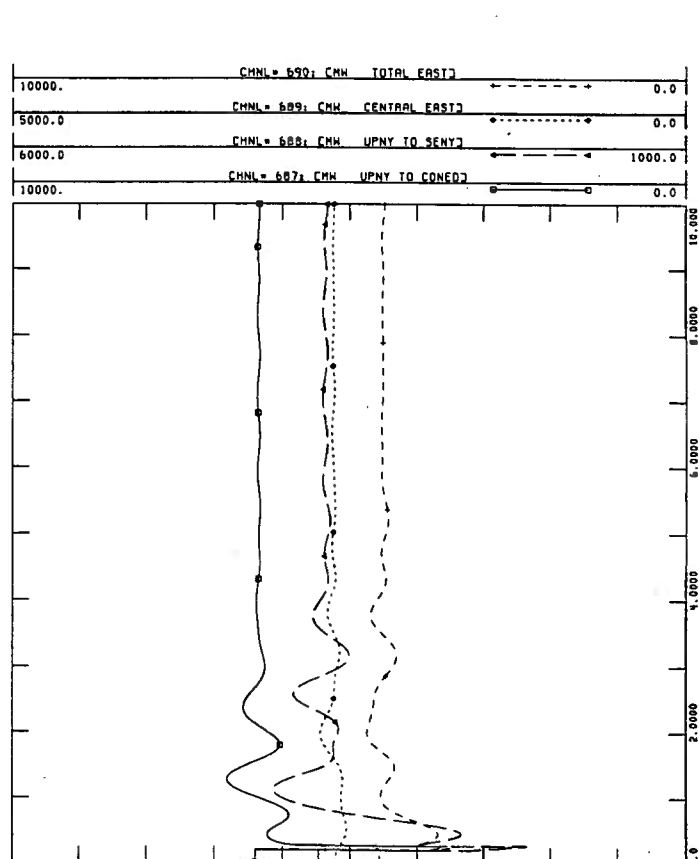
1.2000 CHNL = 508: CVOLT 4327 CFARAGUT345.0033 0.20000
 1.2000 CHNL = 636: CVOLT 3105 CLONG MTN345.0033 0.20000
 1.2000 CHNL = 572: CVOLT 9577 CMARCY765765.0033 0.20000
 1.2000 CHNL = 545: CVOLT 5403 CFARAS345345.0033 0.20000
 1.2000 CHNL = 528: CVOLT 4347 CFARAPD 345.0033 0.20000



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 RUN D4C PLOT 13

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamics\DS4RUND4C.OUT

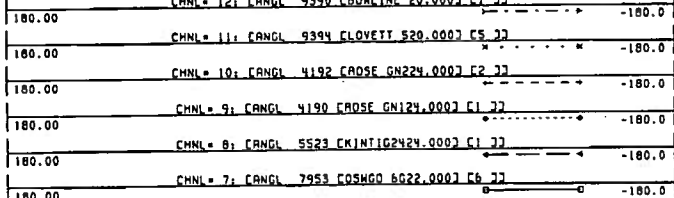


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 RUN D4C PLOT 15

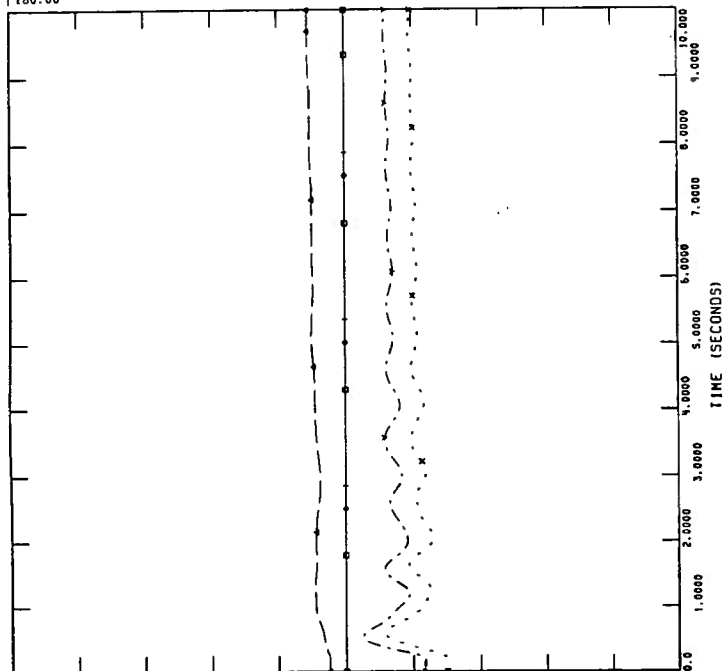
CONTINGENCY D5A

RECOVER FROM D1.SNP AND DS4.CNV
START OUTPUT DS4RUND5A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4313 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN S
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 1 / TRIP BUCHANAN S-MILLWOOD 1
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 2 / TRIP BUCHANAN S-MILLWOOD 2
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

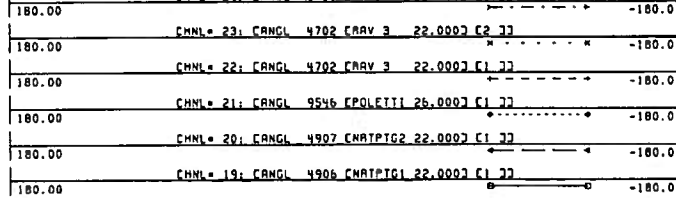
CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DS4RUND5A.OUT
 CHNL = 12: CANGI 9399 CROHLINE 20.0003 C1 JJ



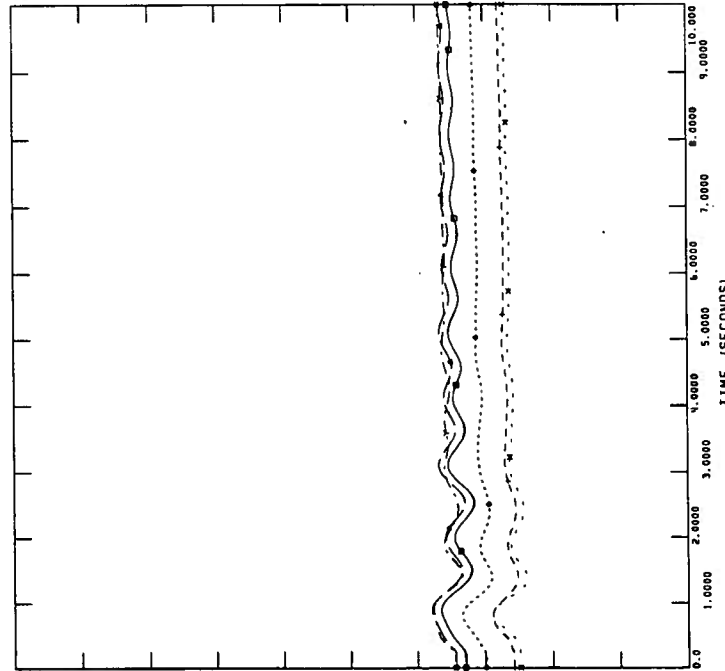
FRI, MAR 31 2000 17:03
 RUN DSA PLOT 2



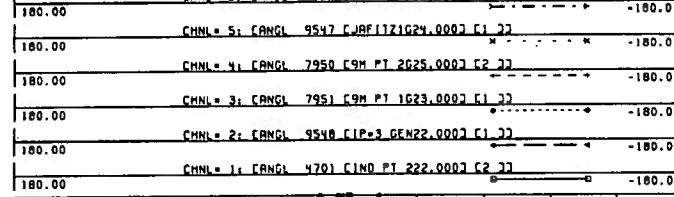
CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DS4RUND5A.OUT
 CHNL = 24: CANGI 4700 CARK 3 22.0003 C1 JJ



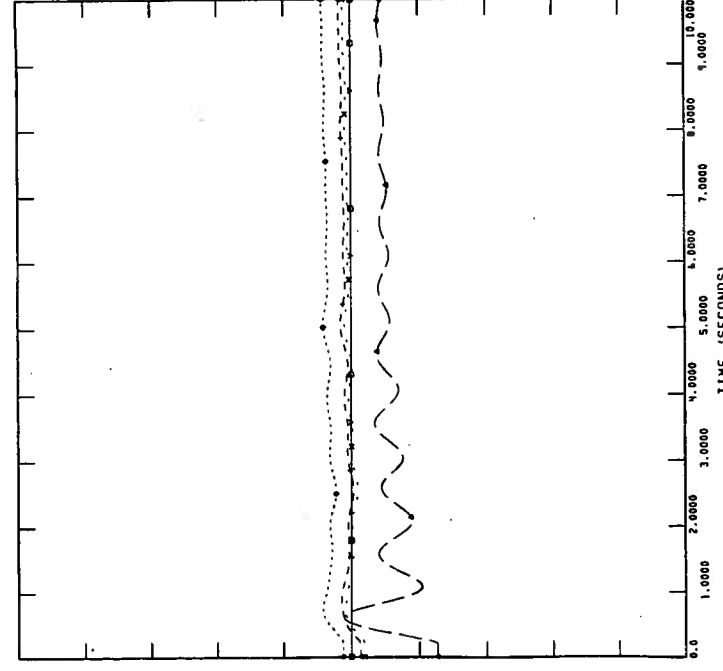
FRI, MAR 31 2000 17:03
 RUN DSA PLOT 4



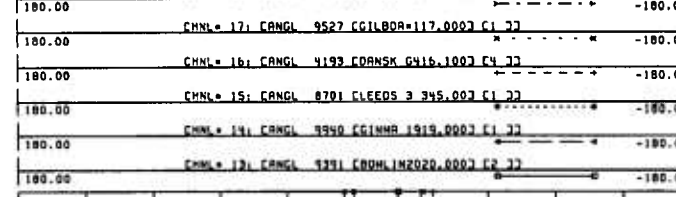
CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DS4RUND5A.OUT
 CHNL = 6: CANGI 7952 C05HGO 5022.0003 C5 JJ



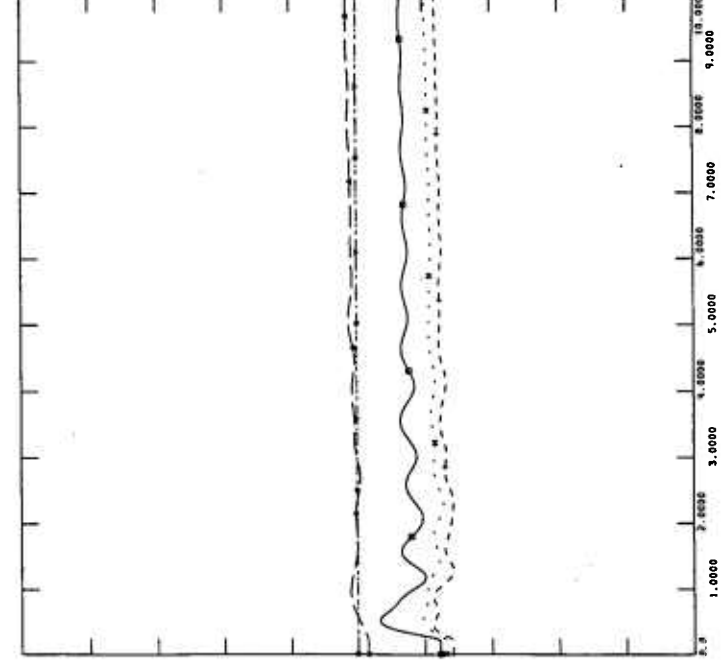
FRI, MAR 31 2000 17:03
 RUN DSA PLOT 1



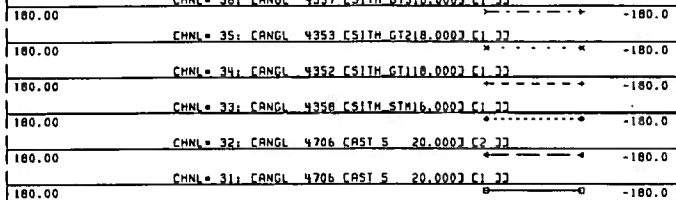
CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DS4RUND5A.OUT
 CHNL = 18: CANGI 9528 CGILBDA=217.0003 C2 JJ



FRI, MAR 31 2000 17:03
 RUN DSA PLOT 3

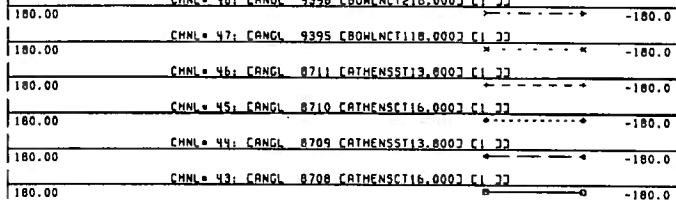


CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DS4\RUNDSA.OUT
 CHNL = 35: CANGL 4353 CSITH GT18.0002 C1 JJ



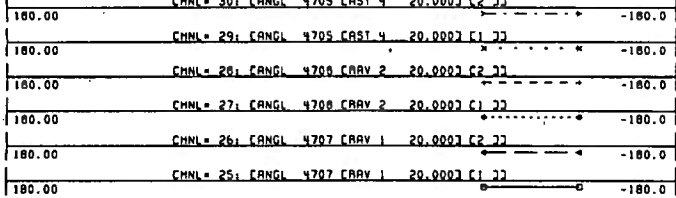
FRI, MAR 31 2000 17:03
 RUN DSA PLOT 6

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DS4\RUNDSA.OUT
 CHNL = 47: CANGL 9395 CBOWLNCT18.0002 C1 JJ



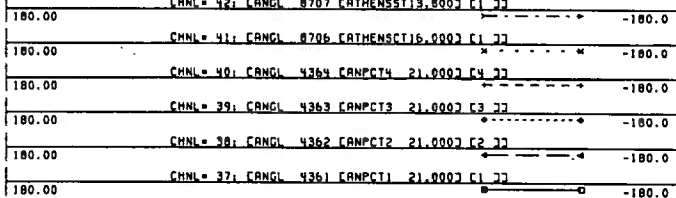
FRI, MAR 31 2000 17:03
 RUN DSA PLOT 8

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DS4\RUNDSA.OUT
 CHNL = 30: CANGL 4705 CAST 4 20.0002 C2 JJ

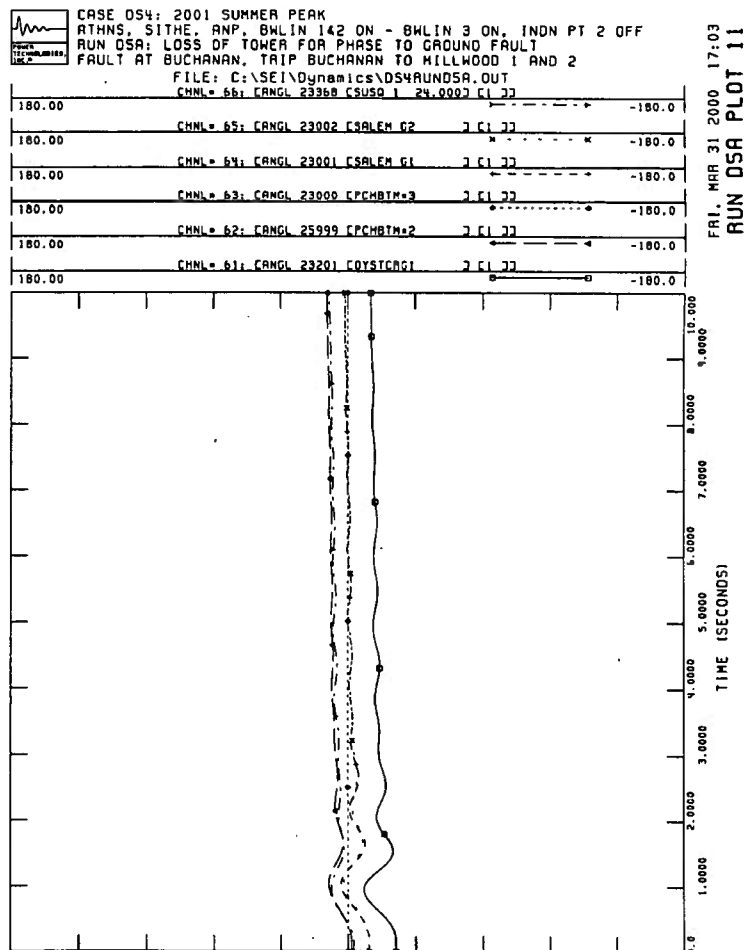
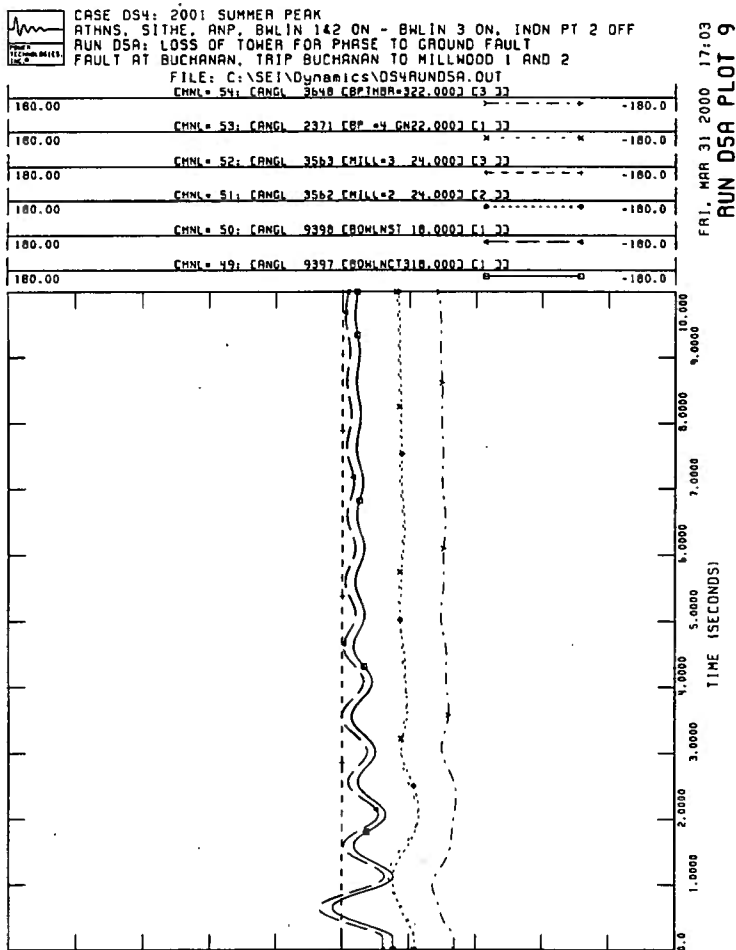
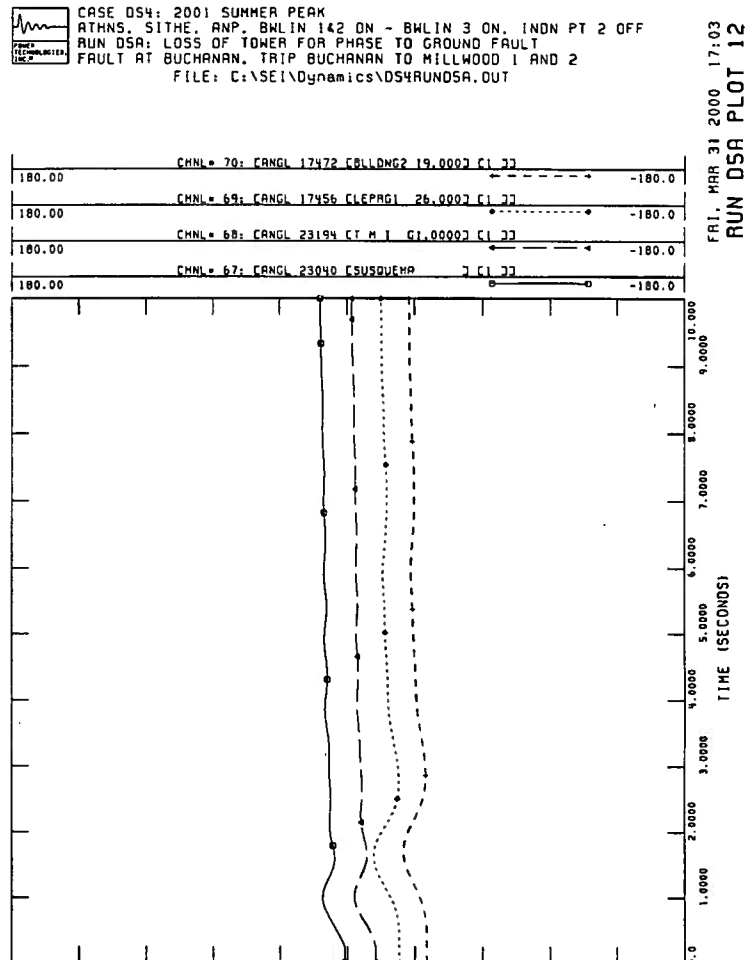
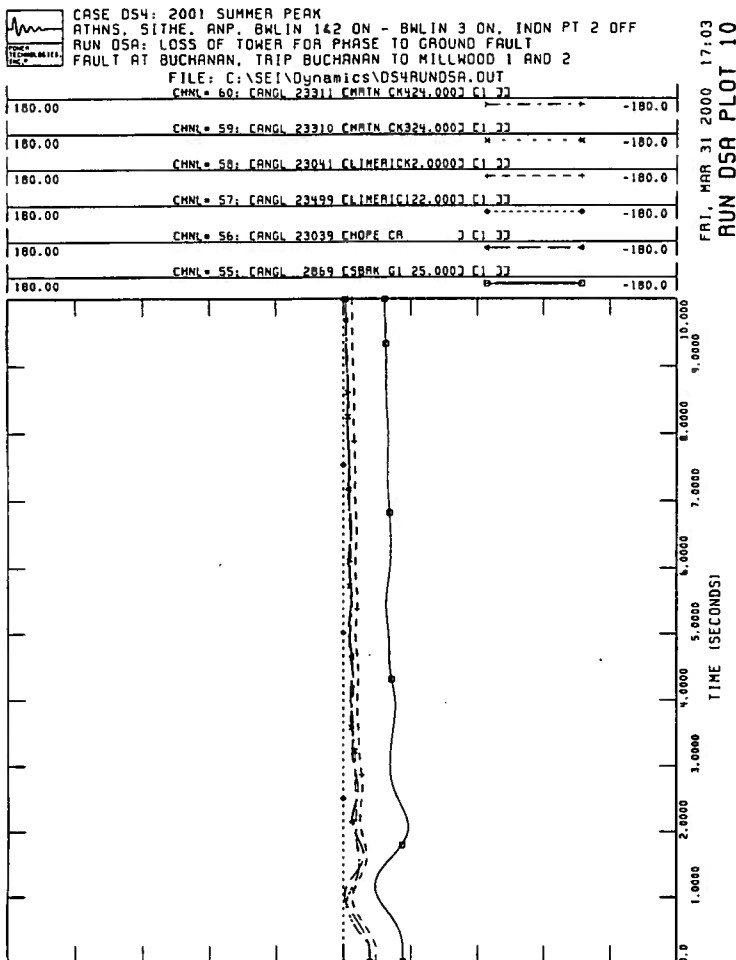


FRI, MAR 31 2000 17:03
 RUN DSA PLOT 5

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DS4\RUNDSA.OUT
 CHNL = 42: CANGL 8707 CATHEMSST13.0002 C1 JJ



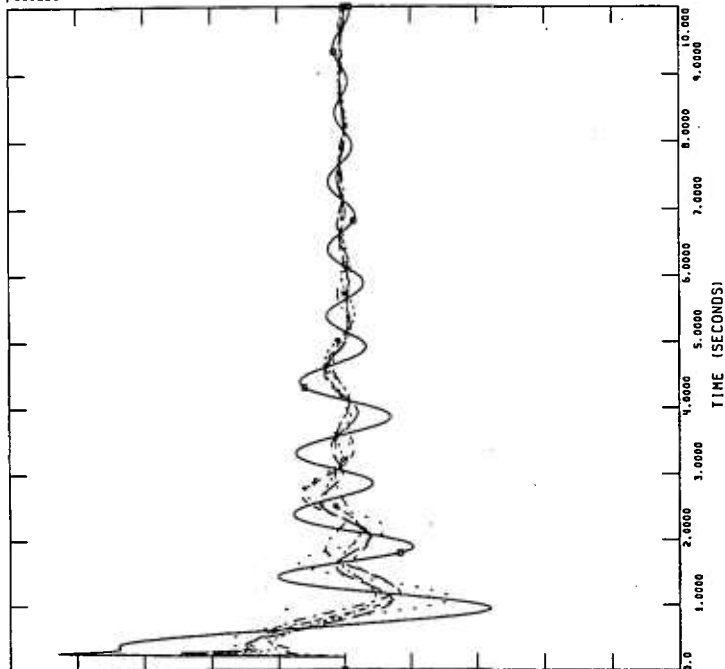
FRI, MAR 31 2000 17:03
 RUN DSA PLOT 7



CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2

FILE: C:\SEI\Dynamic\DS4RUND5A.OUT
CHNL = 705: 60 (1) CFREQ 23003 CALBUT115500.0077

60.250 CHNL = 704: 60 (1) CFREQ 4327 CFARAGUT345.0077 59.750
60.250 CHNL = 703: 60 (1) CFREQ 3105 CLONG MIN345.0077 59.750
60.250 CHNL = 702: 60 (1) CFREQ 9577 CMARCY765765.0077 59.750
60.250 CHNL = 701: 60 (1) CFREQ 5403 CFARAS345345.0077 59.750
60.250 CHNL = 700: 60 (1) CFREQ 4347 CARMARO 345.0077 59.750



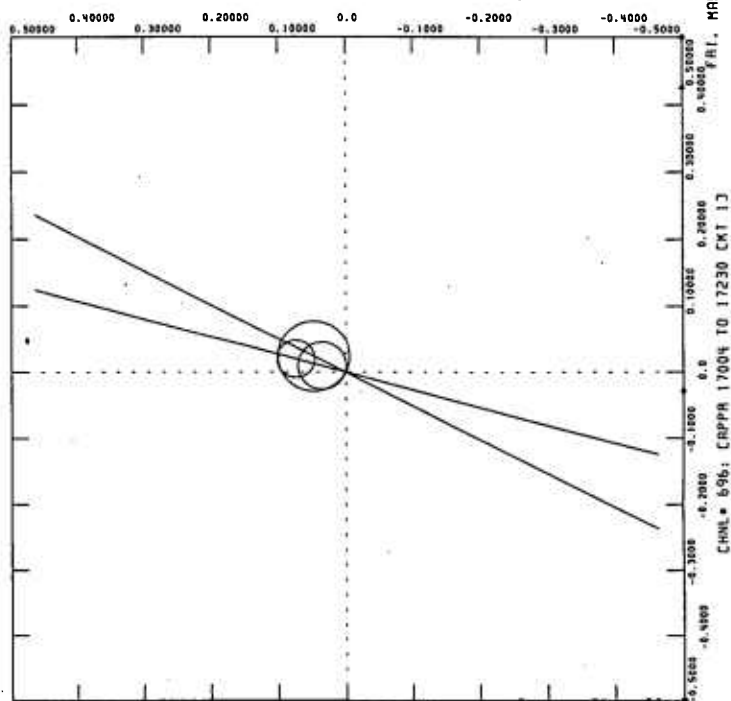
FRI, MAR 31 2000 17:03
RUN DSA PLOT 14

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2

FILE: C:\SEI\Dynamic\DS4RUND5A.OUT

RELAY: DISTR

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

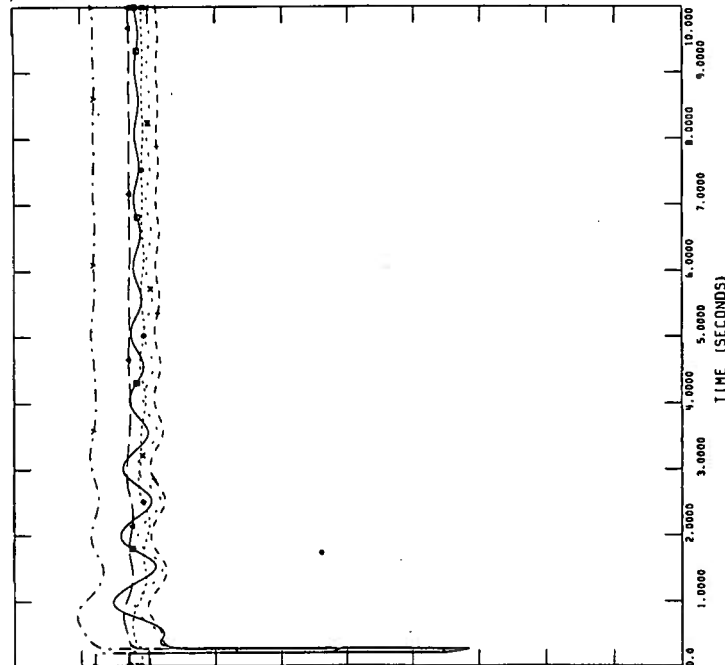


FRI, MAR 31 2000 17:03
RUN DSA PLOT 15

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2

FILE: C:\SEI\Dynamic\DS4RUND5A.OUT
CHNL = 651: CVOLT 23003 CALBUT115500.0077

1.2000 CHNL = 508: CVOLT 4327 CFARAGUT345.0077 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MIN345.0077 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCY765765.0077 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARAS345345.0077 0.20000
1.2000 CHNL = 528: CVOLT 4347 CARMARO 345.0077 0.20000

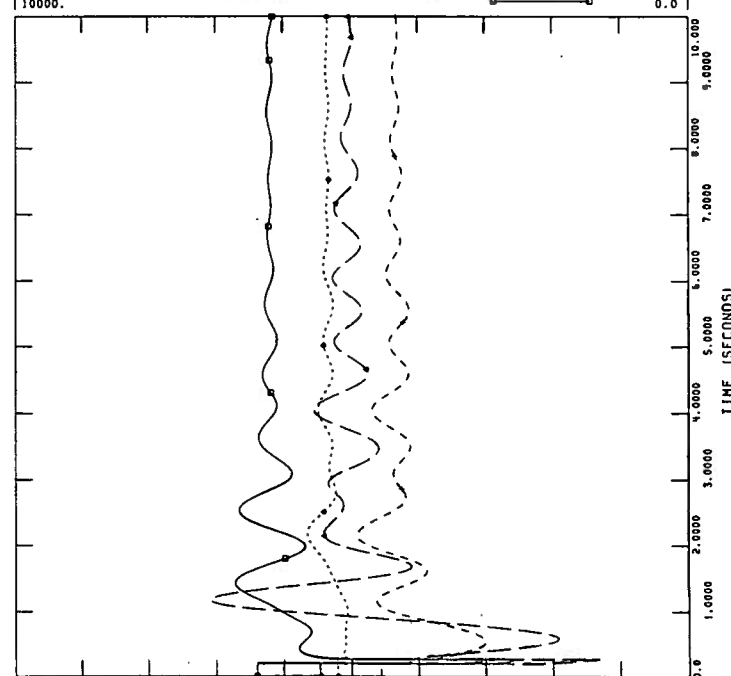


FRI, MAR 31 2000 17:03
RUN DSA PLOT 16

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2

FILE: C:\SEI\Dynamic\DS4RUND5A.OUT

CHNL = 690: CMH TOTAL EAST 0.0
CHNL = 689: CMH CENTRAL EAST 0.0
CHNL = 688: CMH UPNY TO SENE 1000.0
CHNL = 687: CMH UPNY TO CONED 0.0



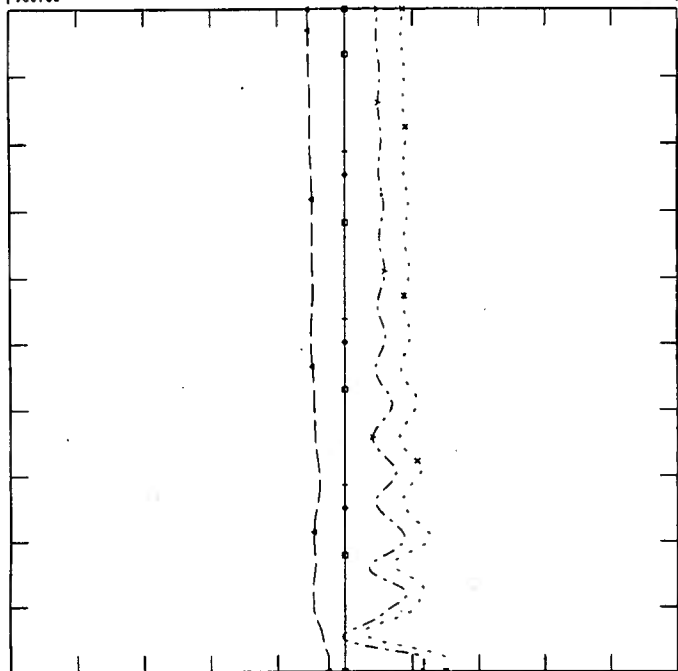
FRI, MAR 31 2000 17:03
RUN DSA PLOT 17

CONTINGENCY E1A

RECOVER FROM D1.SNP AND DS4.CNV
START OUTPUT DS4RUNE1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DS4RUNE1A.OUT
 CHNL= 12: CANGI 9390 CROWLINE 20.0007 C1 JJ

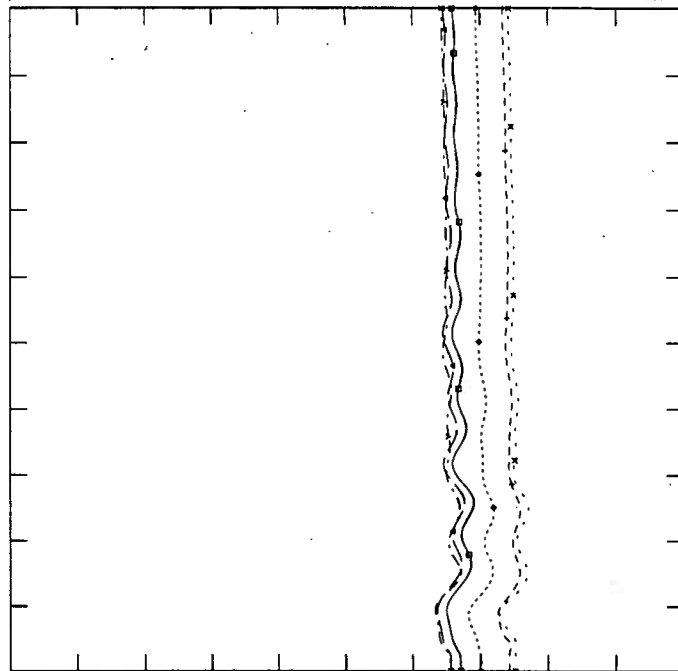
CHNL= 11: CANGI 9394 CLOYETT 520.0007 C5 JJ
 CHNL= 10: CANGI 4192 CROSE GIN24.0007 C2 JJ
 CHNL= 9: CANGI 4190 CROSE GIN24.0007 C1 JJ
 CHNL= 8: CANGI 5523 CKINTIG24.0007 C1 JJ
 CHNL= 7: CANGI 7953 COSMCO 5622.0007 C6 JJ



FRI, MAR 31 2000 17:06
 RUN E1A PLOT 2

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DS4RUNE1A.OUT
 CHNL= 24: CANGI 4709 CAR 3 22.0007 C1 JJ

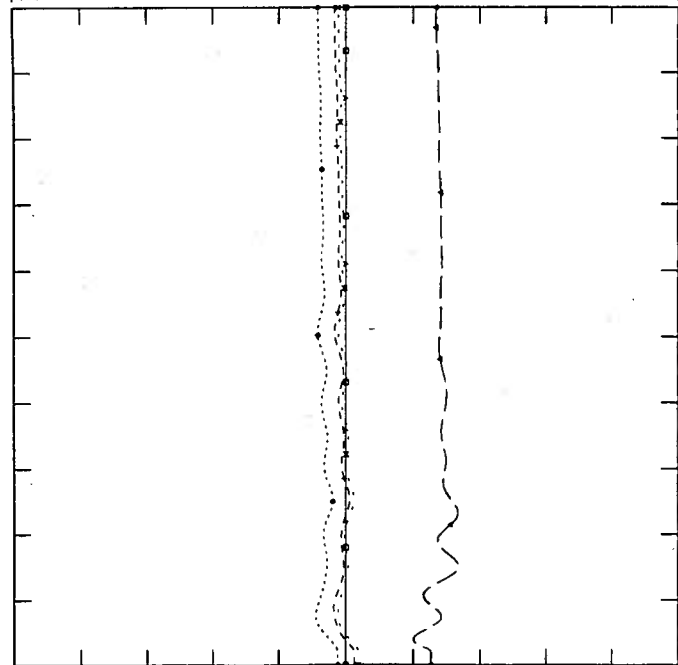
CHNL= 23: CANGI 4702 CARV 3 22.0007 C2 JJ
 CHNL= 22: CANGI 4702 CARV 3 22.0007 C1 JJ
 CHNL= 21: CANGI 9546 CPOLETTI 26.0007 C1 JJ
 CHNL= 20: CANGI 4907 CNRPTG2 22.0007 C1 JJ
 CHNL= 19: CANGI 4906 CNRPTG1 22.0007 C1 JJ



FRI, MAR 31 2000 17:06
 RUN E1A PLOT 4

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DS4RUNE1A.OUT
 CHNL= 6: CANGI 7952 COSMCO 5622.0007 C5 JJ

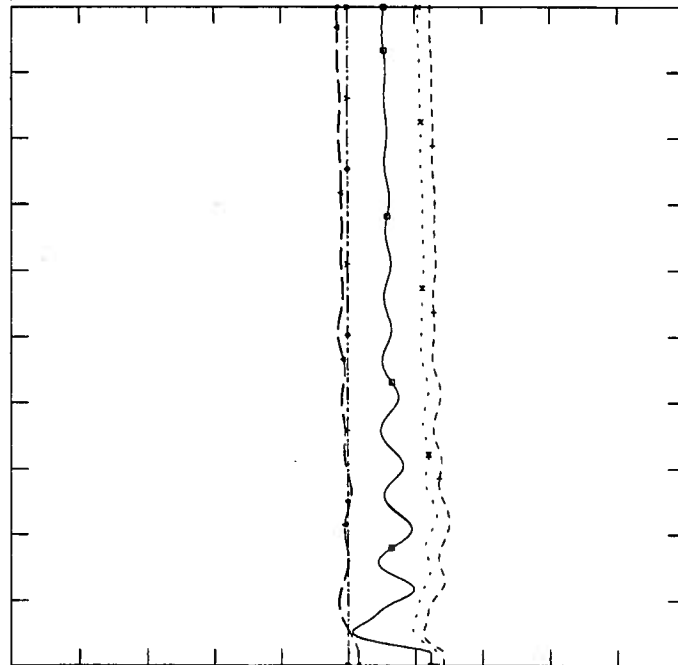
CHNL= 5: CANGI 9547 C/JAF17124.0007 C1 JJ
 CHNL= 4: CANGI 7950 C9H PT 2625.0007 C2 JJ
 CHNL= 3: CANGI 7951 C9H PT 1623.0007 C1 JJ
 CHNL= 2: CANGI 9548 CIP-3 GEN22.0007 C1 JJ
 CHNL= 1: CANGI 4701 CIND PT 222.0007 C2 JJ



FRI, MAR 31 2000 17:06
 RUN E1A PLOT 1

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DS4RUNE1A.OUT
 CHNL= 18: CANGI 9528 CGILBOR=217.0007 C2 JJ

CHNL= 17: CANGI 9527 CGILBOR=117.0007 C1 JJ
 CHNL= 16: CANGI 4193 COANSK G416.1007 C4 JJ
 CHNL= 15: CANGI 8701 CLEEQS 3 345.007 C1 JJ
 CHNL= 14: CANGI 9940 CGINNA 1919.0007 C1 JJ
 CHNL= 13: CANGI 9391 CROWLINE 2020.0007 C2 JJ

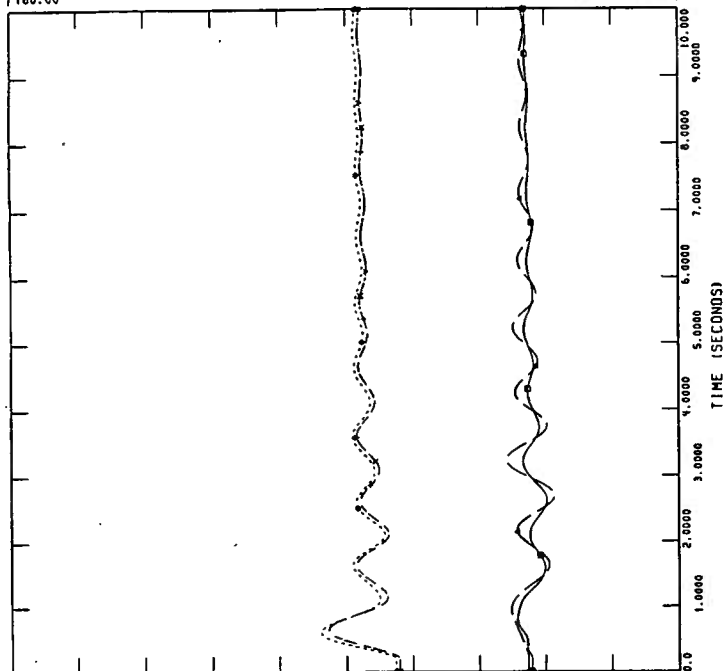


FRI, MAR 31 2000 17:06
 RUN E1A PLOT 3

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO

FILE: C:\SEI\Dynamic\054RUNE1A.OUT
CHNL = 36: CANGL 4357 CSITH GT218.0007 C1 JJ

CHNL = 35: CANGL 4353 CSITH GT218.0007 C1 JJ
CHNL = 34: CANGL 4352 CSITH GT118.0007 C1 JJ
CHNL = 33: CANGL 4350 CSITH ST116.0007 C1 JJ
CHNL = 32: CANGL 4706 CAST 5 20.0007 C2 JJ
CHNL = 31: CANGL 4706 CAST 5 20.0007 C1 JJ

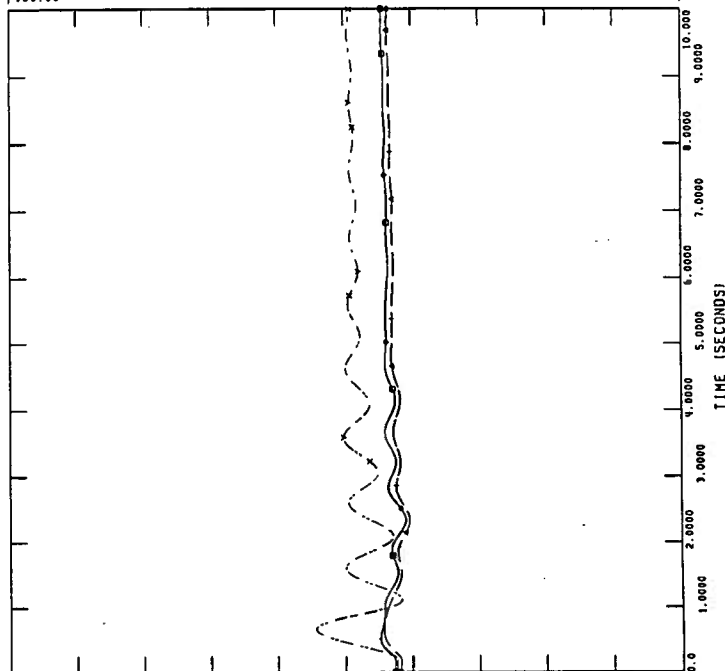


FRI, MAR 31 2000 17:06
RUN E1A PLOT 6

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO

FILE: C:\SEI\Dynamic\054RUNE1A.OUT
CHNL = 48: CANGL 9396 C80MLNC1218.0007 C1 JJ

CHNL = 47: CANGL 9395 C80MLNC118.0007 C1 JJ
CHNL = 46: CANGL 8711 CATHENSST13.8007 C1 JJ
CHNL = 45: CANGL 8710 CATHENSST16.0007 C1 JJ
CHNL = 44: CANGL 8709 CATHENSST13.8007 C1 JJ
CHNL = 43: CANGL 8708 CATHENSST16.0007 C1 JJ

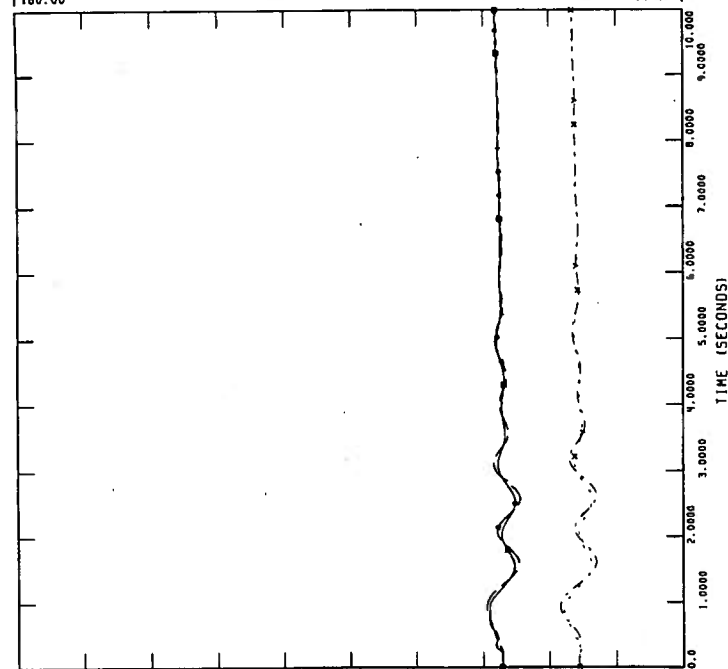


FRI, MAR 31 2000 17:06
RUN E1A PLOT 8

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO

FILE: C:\SEI\Dynamic\054RUNE1A.OUT
CHNL = 30: CANGL 4705 CAST 4 20.0007 C2 JJ

CHNL = 29: CANGL 4705 CAST 4 20.0007 C1 JJ
CHNL = 28: CANGL 4708 CARV 2 20.0007 C2 JJ
CHNL = 27: CANGL 4708 CARV 2 20.0007 C1 JJ
CHNL = 26: CANGL 4707 CARV 1 20.0007 C2 JJ
CHNL = 25: CANGL 4707 CARV 1 20.0007 C1 JJ

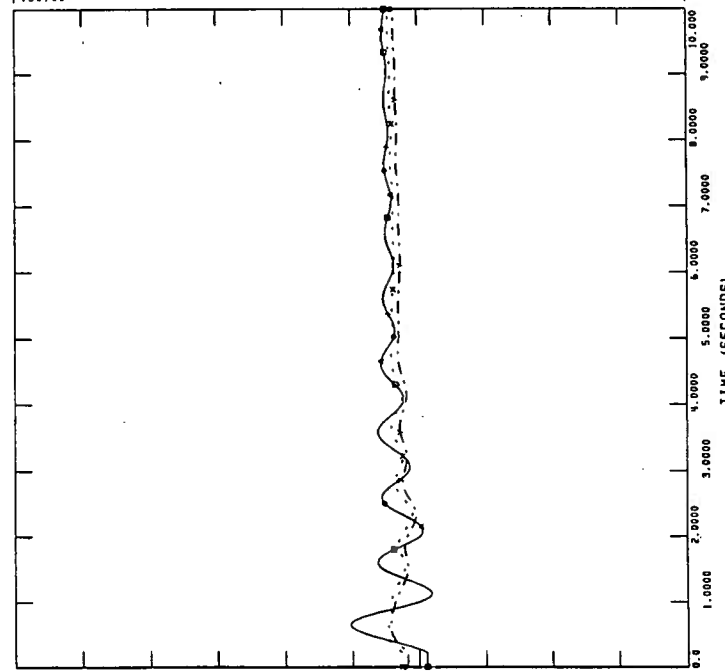


FRI, MAR 31 2000 17:06
RUN E1A PLOT 5

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO

FILE: C:\SEI\Dynamic\054RUNE1A.OUT
CHNL = 42: CANGL 8707 CATHENSST13.8007 C1 JJ

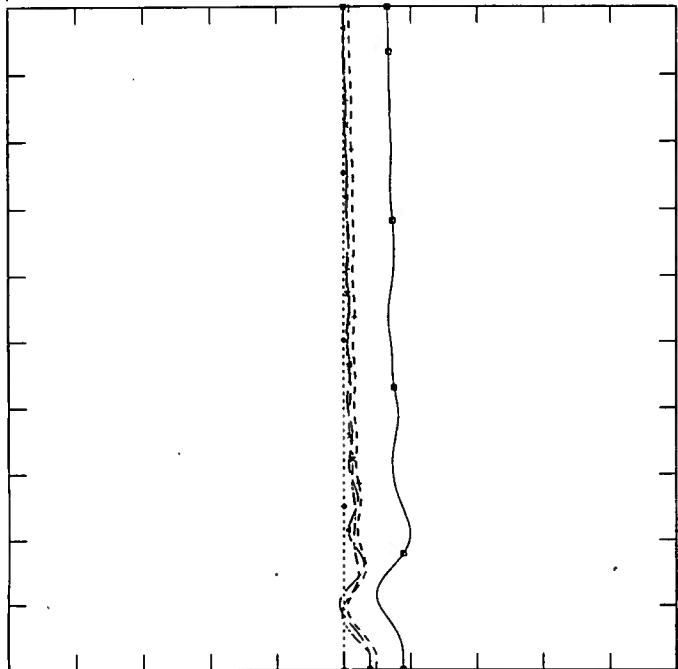
CHNL = 41: CANGL 8706 CATHENSST16.0007 C1 JJ
CHNL = 40: CANGL 4364 CANPCT4 21.0007 C4 JJ
CHNL = 39: CANGL 4363 CANPCT3 21.0007 C3 JJ
CHNL = 38: CANGL 4362 CANPCT2 21.0007 C2 JJ
CHNL = 37: CANGL 4361 CANPCT1 21.0007 C1 JJ



FRI, MAR 31 2000 17:06
RUN E1A PLOT 7

CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\Dynamic\DS4AUNE1A.OUT
 CHNL= 60: CANGI 2331 CMTN CK324.0007 C1 JJ

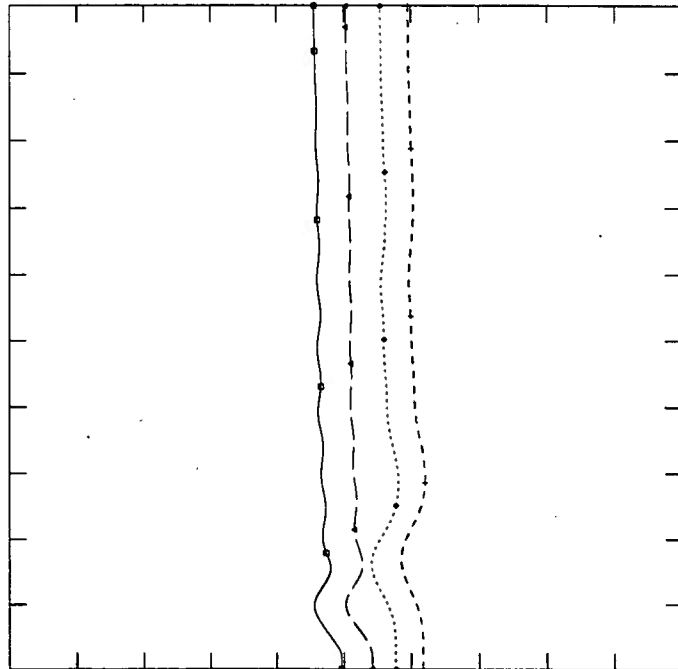
CHNL= 59: CANGI 23310 CMTN CK324.0007 C1 JJ
 CHNL= 58: CANGI 23041 CLIMERICK2.00007 C1 JJ
 CHNL= 57: CANGI 23199 CLIMERICK122.0007 C1 JJ
 CHNL= 56: CANGI 23039 CHOPE CA J C1 JJ
 CHNL= 55: CANGI 2869 CSBAK G1 25.0007 C1 JJ



FRI, MAR 31 2000 17:06
 RUN E1A PLOT 10

CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\Dynamic\DS4AUNE1A.OUT
 CHNL= 70: CANGI 17472 CBLLONG2 19.0007 C1 JJ

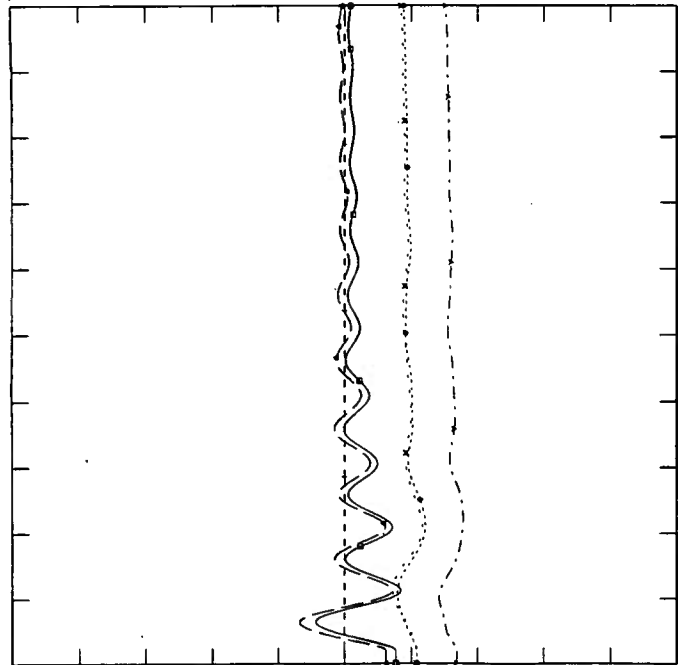
CHNL= 69: CANGI 17456 CLEPAG 26.0007 C1 JJ
 CHNL= 68: CANGI 23194 CT M 1 G1.00007 C1 JJ
 CHNL= 67: CANGI 23040 CSUSQUEHA J C1 JJ



FRI, MAR 31 2000 17:06
 RUN E1A PLOT 12

CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\Dynamic\DS4AUNE1A.OUT
 CHNL= 54: CANGI 3548 CAPTMA=322.0007 C3 JJ

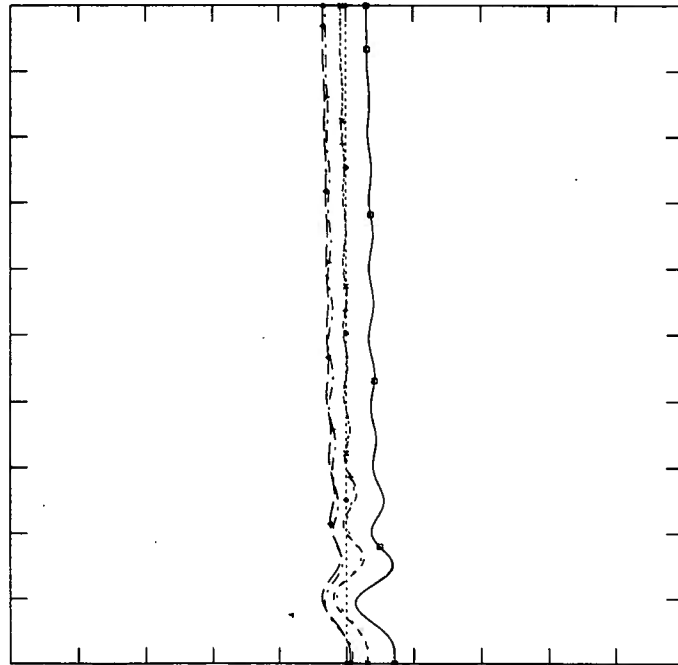
CHNL= 53: CANGI 2371 CAP=4 GN22.0007 C1 JJ
 CHNL= 52: CANGI 3563 CHILL=3 24.0007 C3 JJ
 CHNL= 51: CANGI 3562 CHILL=2 24.0007 C2 JJ
 CHNL= 50: CANGI 9398 CBOMLNST 18.0007 C1 JJ
 CHNL= 49: CANGI 9397 CBOMLNCT318.0007 C1 JJ



FRI, MAR 31 2000 17:06
 RUN E1A PLOT 9

CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\Dynamic\DS4AUNE1A.OUT
 CHNL= 66: CANGI 23368 CSUSQ 1 24.0007 C1 JJ

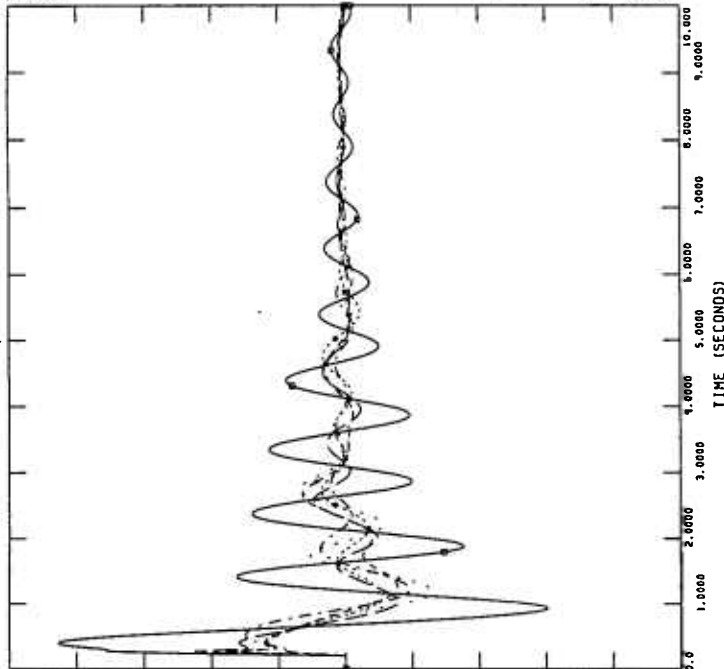
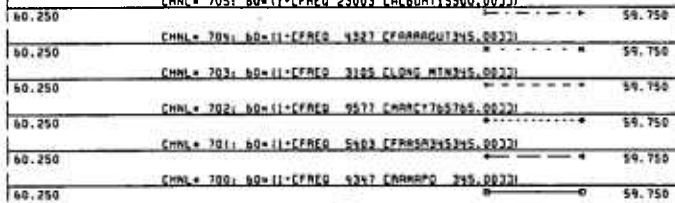
CHNL= 65: CANGI 23002 CSALEM C2 J C1 JJ
 CHNL= 64: CANGI 23001 CSALEM C1 J C1 JJ
 CHNL= 63: CANGI 23000 CPCBATH=3 J C1 JJ
 CHNL= 62: CANGI 25999 CPCBATH=2 J C1 JJ
 CHNL= 61: CANGI 23201 COYSTCAG J C1 JJ



FRI, MAR 31 2000 17:06
 RUN E1A PLOT 11

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN EIA: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO

FILE: C:\SEI\Dynamic\DS4RUNE1A.OUT
CHNL = 705: 60-II-CFREQ 23003 CALBUT15500.0077



FRI, MAR 31 2000 17:06
RUN EIA PLOT 14

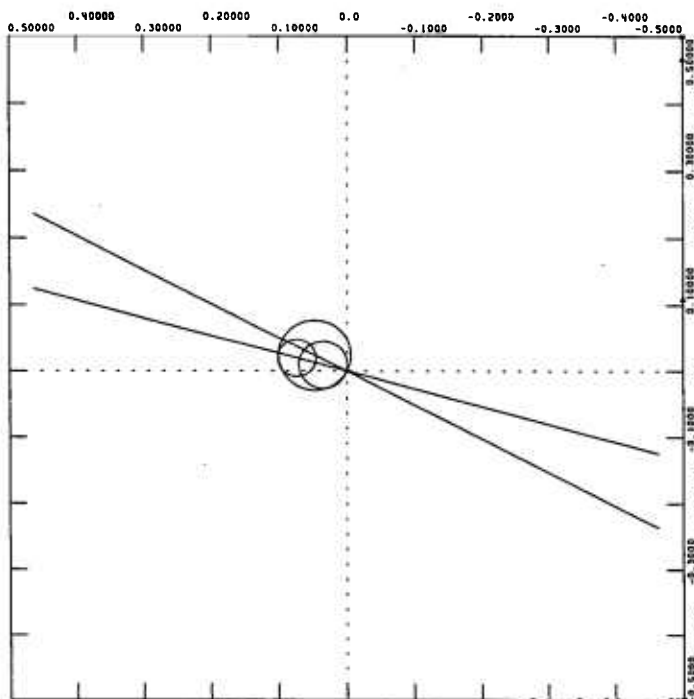


CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN EIA: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO

FILE: C:\SEI\Dynamic\DS4RUNE1A.OUT

RELAY: DISTA

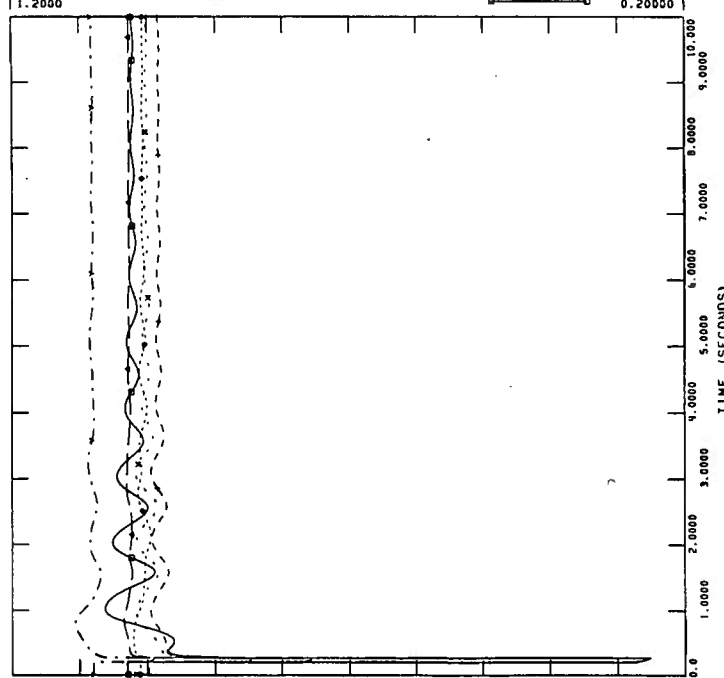
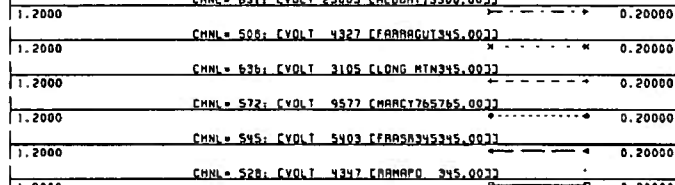
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13



FRI, MAR 31 2000 17:06
RUN EIA PLOT 16

CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN EIA: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO

FILE: C:\SEI\Dynamic\DS4RUNE1A.OUT
CHNL = 651: CVOLT 23003 CALBUT15500.0077

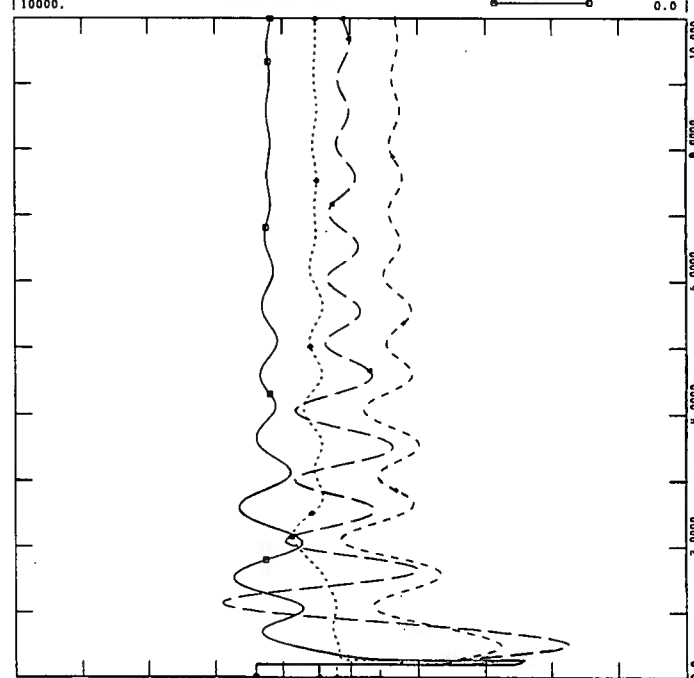
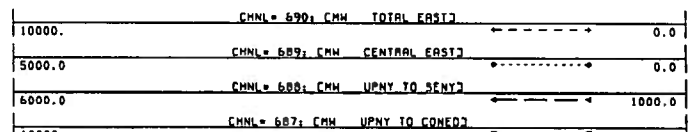


FRI, MAR 31 2000 17:06
RUN EIA PLOT 13



CASE 054: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN EIA: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO

FILE: C:\SEI\Dynamic\DS4RUNE1A.OUT



FRI, MAR 31 2000 17:06
RUN EIA PLOT 15

CONTINGENCY E2A

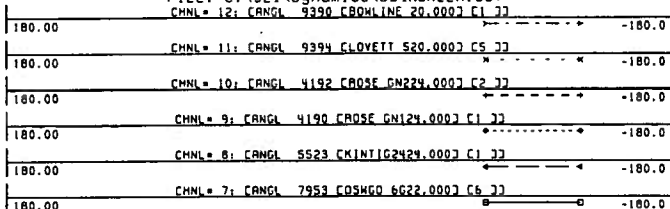
```
RECOVER FROM D1.SNP AND DS4.CNV
START OUTPUT DS4RUNE2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0  -2e+009 MVA  / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DISCONNECT BUS 4347                               / DISCONNECT RAMAPO SUBSTATION
DROP GENERATOR 1 AT BUS 4352                       / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4353                       / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4357                       / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4358                       / TRIP SITHE ST
DROP GENERATOR 1 AT BUS 4361                       / TRIP ANP CT
DROP GENERATOR 2 AT BUS 4362                       / TRIP ANP CT
DROP GENERATOR 3 AT BUS 4363                       / TRIP ANP CT
DROP GENERATOR 4 AT BUS 4364                       / TRIP ANP ST
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3
```



CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT

CHNL = 12: CANGI 9390 CROHLINE 20.0007 C1 JJ



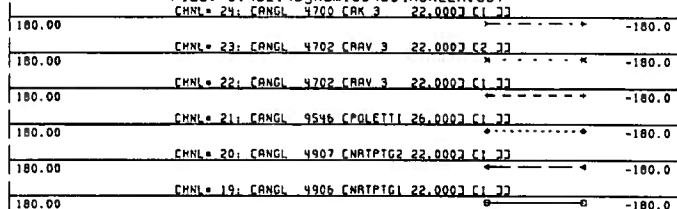
FRI, MAR 31 2000 17:06
RUN E2A PLOT 2



CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT

CHNL = 24: CANGI 4702 CARV 3 22.0007 C1 JJ



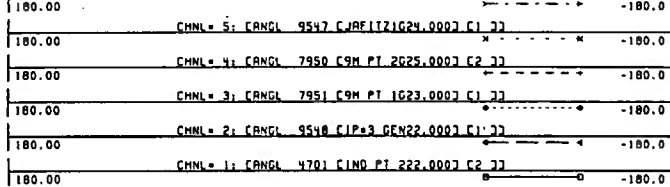
FRI, MAR 31 2000 17:06
RUN E2A PLOT 4



CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT

CHNL = 6: CANGI 7952 CROSHGO 5622.0007 C5 JJ



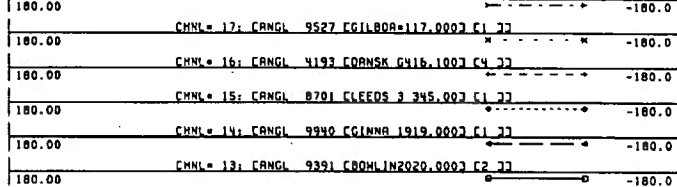
FRI, MAR 31 2000 17:06
RUN E2A PLOT 1



CASE D54: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT

CHNL = 18: CANGI 9528 CGILBDA=217.0007 C2 JJ

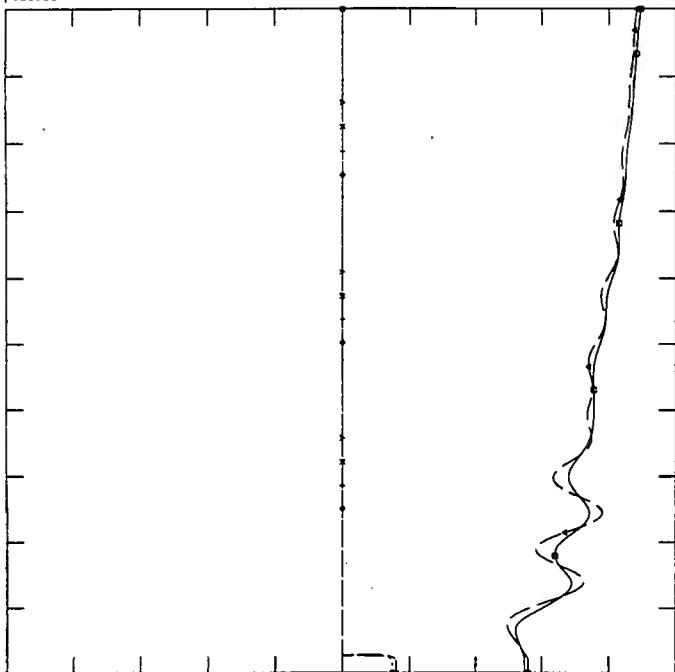


FRI, MAR 31 2000 17:06
RUN E2A PLOT 3

CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT
 CHNL= 36: CANGL 4357 CSITH GT18.0002 C1 JJ

180.00 CHNL= 35: CANGL 4353 CSITH GT18.0002 C1 JJ -180.0
 180.00 CHNL= 34: CANGL 4352 CSITH GT18.0002 C1 JJ -180.0
 180.00 CHNL= 33: CANGL 4350 CSITH GT18.0002 C1 JJ -180.0
 180.00 CHNL= 32: CANGL 4706 CAST 5 20.0002 C2 JJ -180.0
 180.00 CHNL= 31: CANGL 4706 CAST 5 20.0002 C1 JJ -180.0

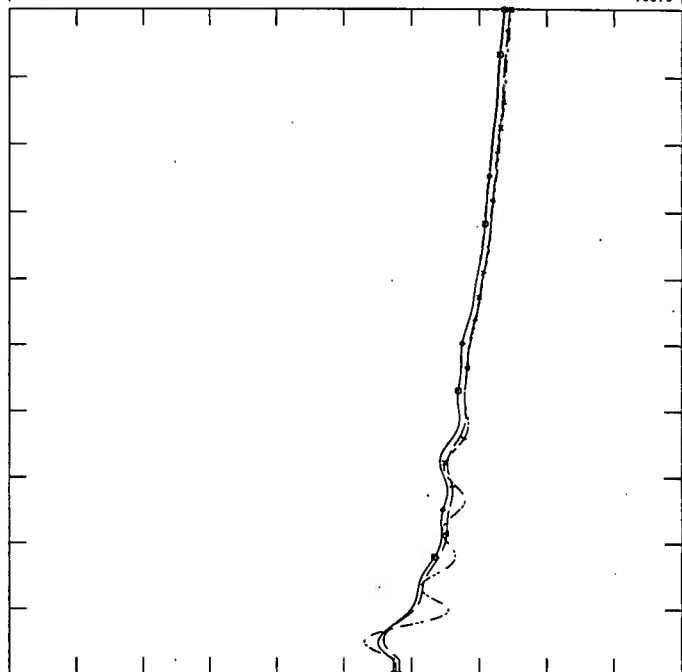


FRI, MAR 31 2000 17:06
 RUN E2A PLOT 6

CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT
 CHNL= 48: CANGL 9399 CBOWLNCT18.0002 C1 JJ

180.00 CHNL= 47: CANGL 9395 CBOWLNCT18.0002 C1 JJ -180.0
 180.00 CHNL= 46: CANGL 8711 CATHENSCT13.0002 C1 JJ -180.0
 180.00 CHNL= 45: CANGL 8710 CATHENSCT16.0002 C1 JJ -180.0
 180.00 CHNL= 44: CANGL 8709 CATHENSCT13.0002 C1 JJ -180.0
 180.00 CHNL= 43: CANGL 8708 CATHENSCT16.0002 C1 JJ -180.0

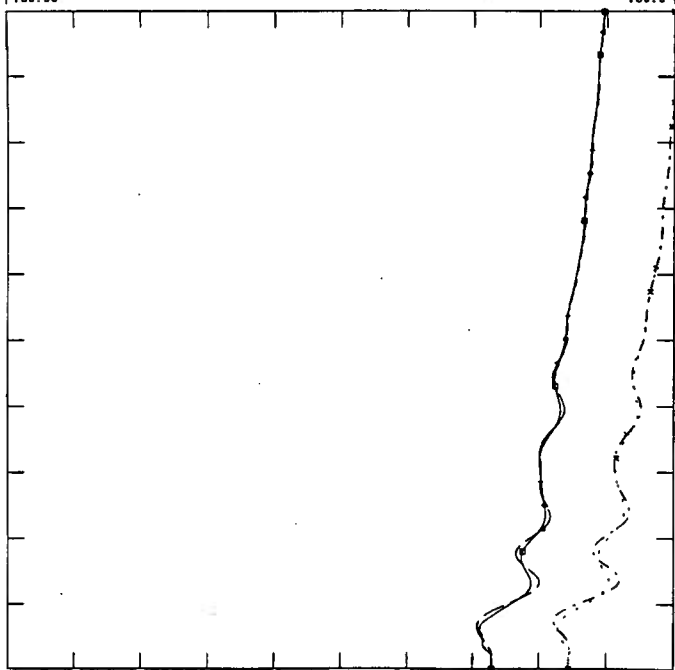


FRI, MAR 31 2000 17:06
 RUN E2A PLOT 7

CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT
 CHNL= 30: CANGL 4705 CAST 4 20.0002 C2 JJ

180.00 CHNL= 29: CANGL 4705 CAST 4 20.0002 C1 JJ -180.0
 180.00 CHNL= 28: CANGL 4708 CARV 2 20.0002 C2 JJ -180.0
 180.00 CHNL= 27: CANGL 4708 CARV 2 20.0002 C1 JJ -180.0
 180.00 CHNL= 26: CANGL 4707 CARV 1 20.0002 C2 JJ -180.0
 180.00 CHNL= 25: CANGL 4707 CARV 1 20.0002 C1 JJ -180.0

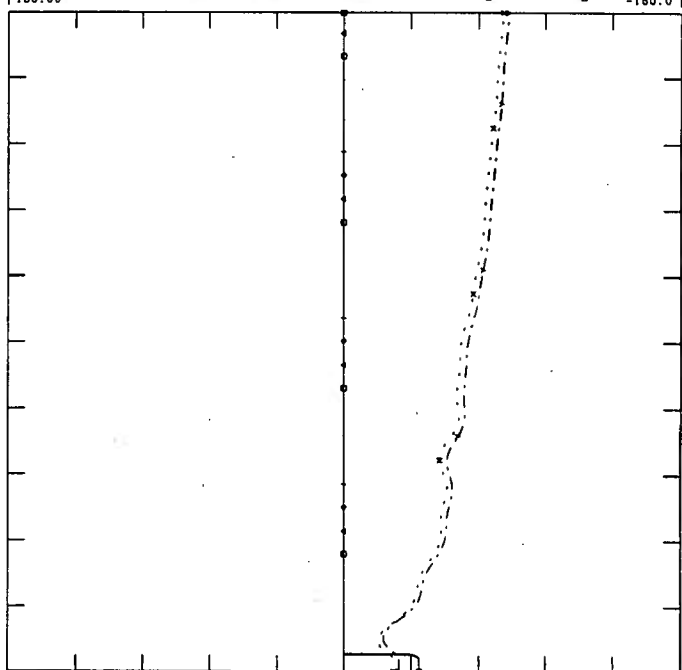


FRI, MAR 31 2000 17:06
 RUN E2A PLOT 5

CASE 054: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT
 CHNL= 42: CANGL 8707 CATHENSCT13.0002 C1 JJ

180.00 CHNL= 41: CANGL 8706 CATHENSCT16.0002 C1 JJ -180.0
 180.00 CHNL= 40: CANGL 4364 CANPCT4 21.0002 C4 JJ -180.0
 180.00 CHNL= 39: CANGL 4363 CANPCT3 21.0002 C3 JJ -180.0
 180.00 CHNL= 38: CANGL 4362 CANPCT2 21.0002 C2 JJ -180.0
 180.00 CHNL= 37: CANGL 4361 CANPCT1 21.0002 C1 JJ -180.0



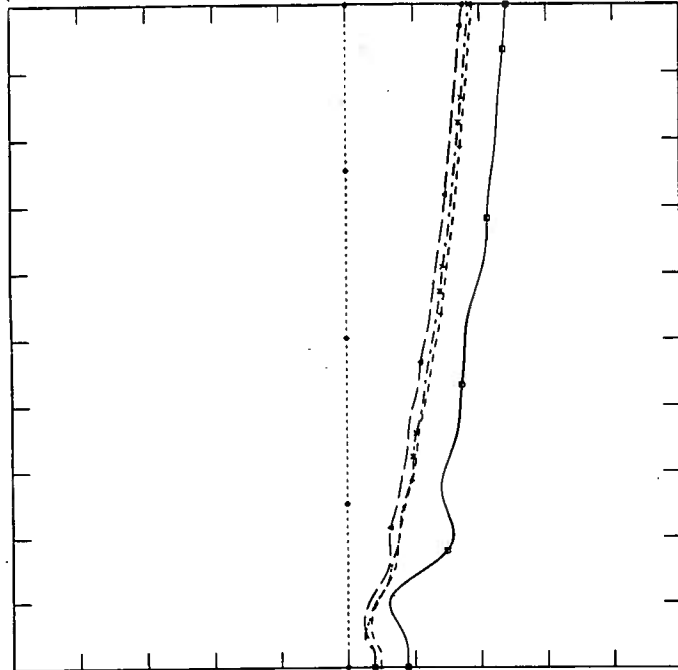
FRI, MAR 31 2000 17:06
 RUN E2A PLOT 8



CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT
CHNL= 60: CANGI 23311 CMATN CK324.0002 C1 JJ

CHNL= 59: CANGI 23310 CMATN CK324.0002 C1 JJ
CHNL= 58: CANGI 23041 CLIMERIC2.00002 C1 JJ
CHNL= 57: CANGI 23499 CLIMERIC122.0002 C1 JJ
CHNL= 56: CANGI 23039 CHOPE CA J C1 JJ
CHNL= 55: CANGI 2869 CSBAK G1 25.0002 C1 JJ



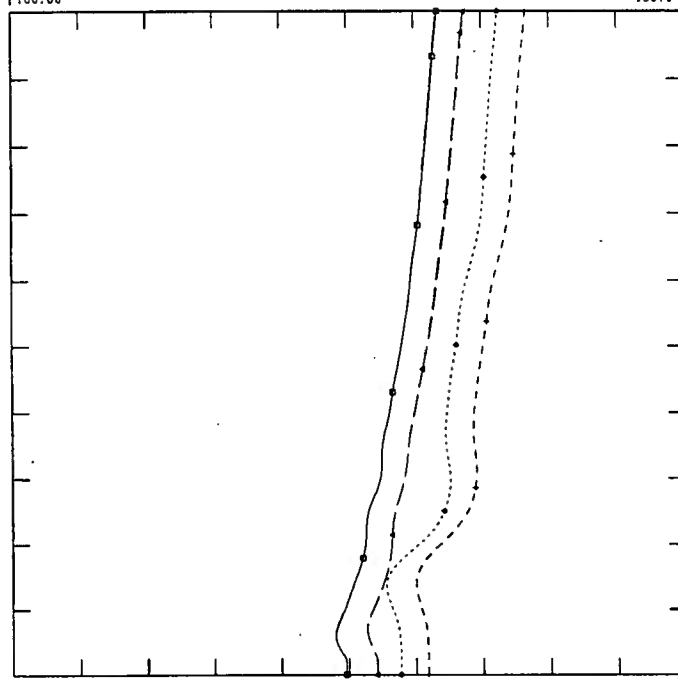
FRI, MAR 31 2000 17:06
RUN E2A PLOT 10



CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT

CHNL= 70: CANGI 17972 CBLLONG2 19.0002 C1 JJ
CHNL= 69: CANGI 17956 CLFPGI 26.0002 C1 JJ
CHNL= 68: CANGI 23194 CT M I G1.00002 C1 JJ
CHNL= 67: CANGI 23040 CSUSQUEHA J C1 JJ



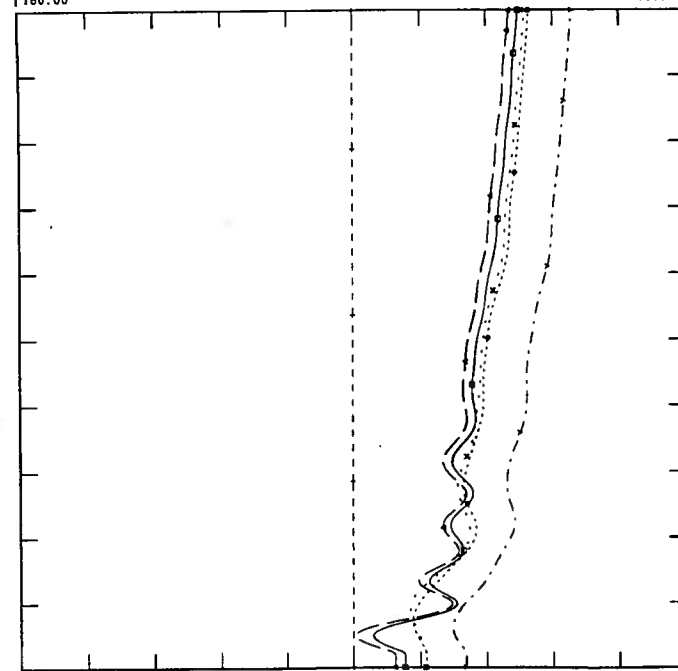
FRI, MAR 31 2000 17:06
RUN E2A PLOT 12



CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT
CHNL= 54: CANGI 3648 CBPTMBA322.0002 C3 JJ

CHNL= 53: CANGI 2371 CBP #4 GN22.0002 C1 JJ
CHNL= 52: CANGI 3563 CHILL#3 24.0002 C3 JJ
CHNL= 51: CANGI 3562 CHILL#2 24.0002 C2 JJ
CHNL= 50: CANGI 9398 CROWLMS1 18.0002 C1 JJ
CHNL= 49: CANGI 9397 CROWLMS18.0002 C1 JJ



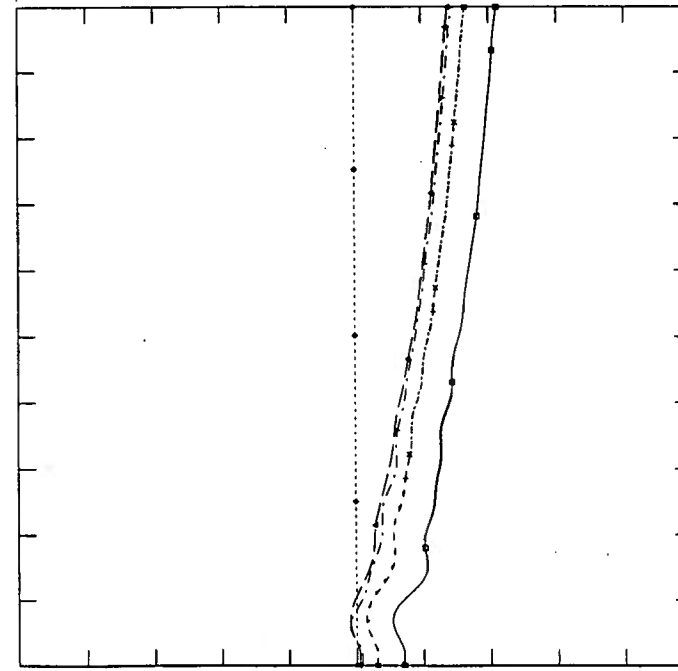
FRI, MAR 31 2000 17:06
RUN E2A PLOT 9



CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT
CHNL= 66: CANGI 23368 CSUSQ 1 24.0002 C1 JJ

CHNL= 65: CANGI 23002 CSALEM C2 J C1 JJ
CHNL= 64: CANGI 23001 CSALEM G1 J C1 JJ
CHNL= 63: CANGI 23000 CPCHBTH#3 J C1 JJ
CHNL= 62: CANGI 25999 CPCHBTH#2 J C1 JJ
CHNL= 61: CANGI 23201 COYSTCAGI J C1 JJ

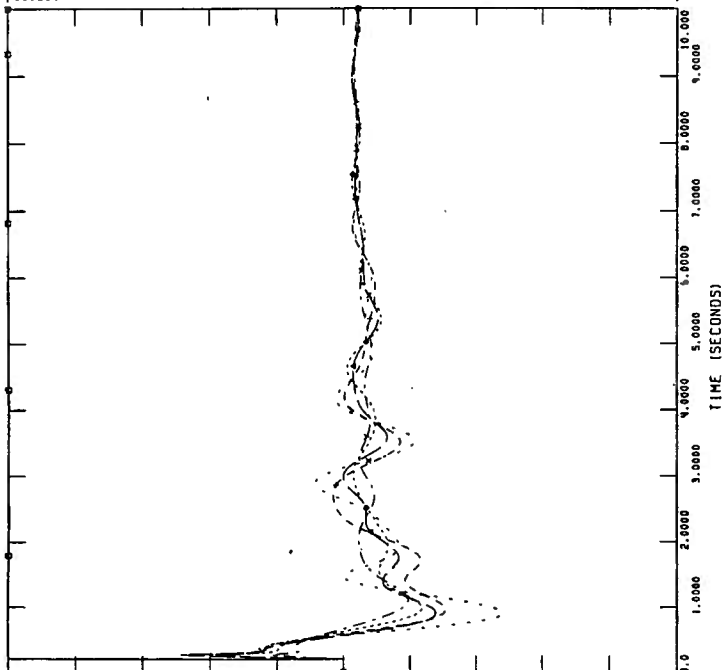


FRI, MAR 31 2000 17:06
RUN E2A PLOT 11

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT
CHNL = 705: 60*(1-CFREQ 23003 CALBUT15500.0072)

60.250	CHNL = 704: 60*(1-CFREQ 4327 CFARAGUT345.0072)	59.750
60.250	CHNL = 703: 60*(1-CFREQ 3105 CLONG MTN345.0072)	59.750
60.250	CHNL = 702: 60*(1-CFREQ 9577 CHARC765765.0072)	59.750
60.250	CHNL = 701: 60*(1-CFREQ 5403 CFARAGUT345.0072)	59.750
60.250	CHNL = 700: 60*(1-CFREQ 4347 CFARAPO 345.0072)	59.750



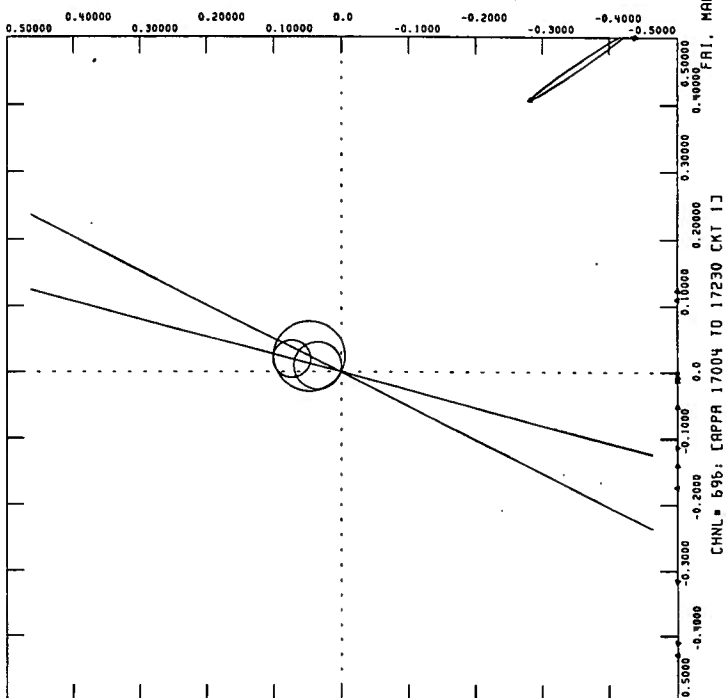
FRI, MAR 31 2000 17:06
RUN E2A PLOT 14

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT

RELAY: DISTR

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

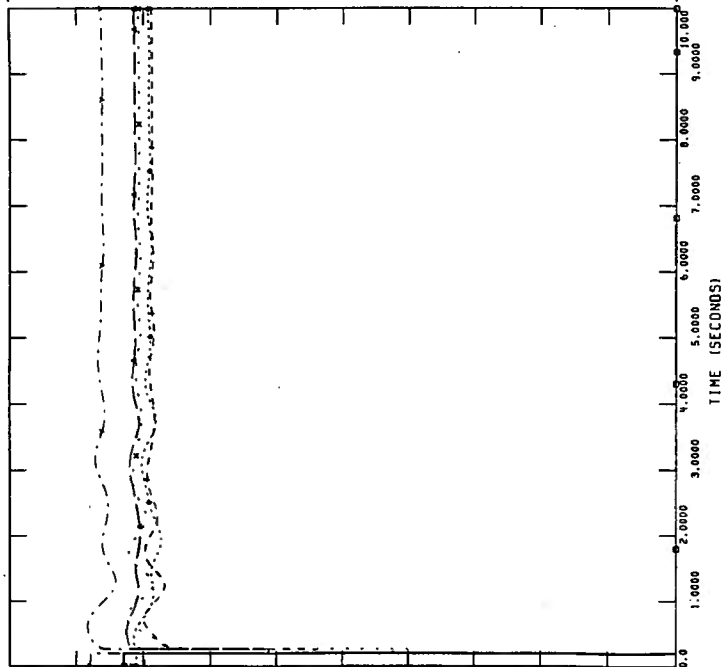


FRI, MAR 31 2000 17:06
RUN E2A PLOT 16

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT
CHNL = 651: CVOLT 23003 CALBUT15500.0072

1.2000	CHNL = 508: CVOLT 4327 CFARAGUT345.0072	0.20000
1.2000	CHNL = 636: CVOLT 3105 CLONG MTN345.0072	0.20000
1.2000	CHNL = 572: CVOLT 9577 CHARC765765.0072	0.20000
1.2000	CHNL = 545: CVOLT 5403 CFARAGUT345.0072	0.20000
1.2000	CHNL = 528: CVOLT 4347 CFARAPO 345.0072	0.20000

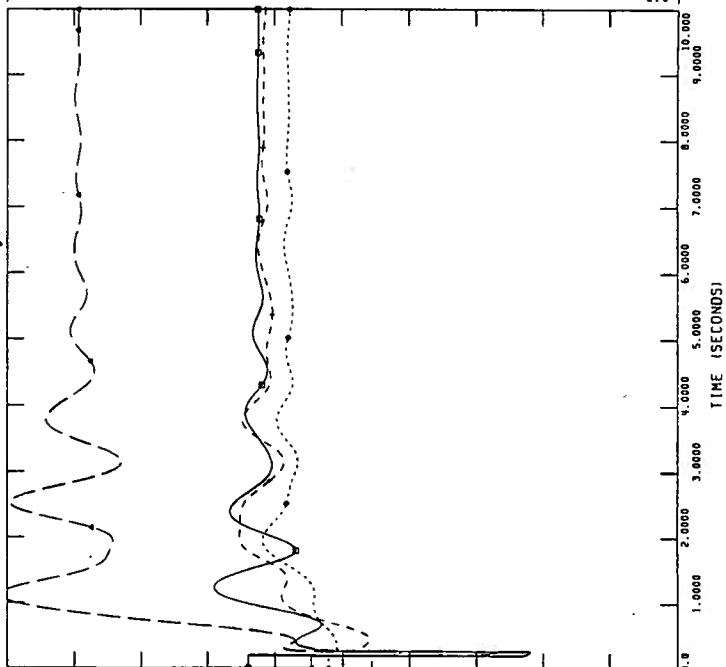


FRI, MAR 31 2000 17:06
RUN E2A PLOT 13

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DS4RUNE2A.OUT

10000.0	CHNL = 690: CMW TOTAL EAST	0.0
5000.0	CHNL = 689: CMW CENTRAL EAST	0.0
6000.0	CHNL = 688: CMW UPNY TO SENY	1000.0
10000.0	CHNL = 687: CMW UPNY TO CONED	0.0



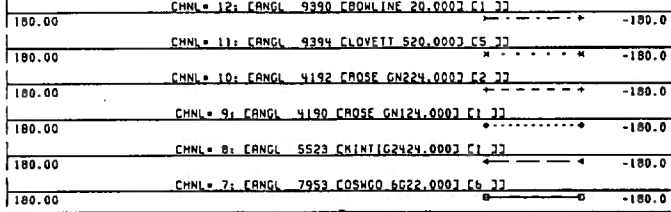
FRI, MAR 31 2000 17:06
RUN E2A PLOT 15

CONTINGENCY E3A

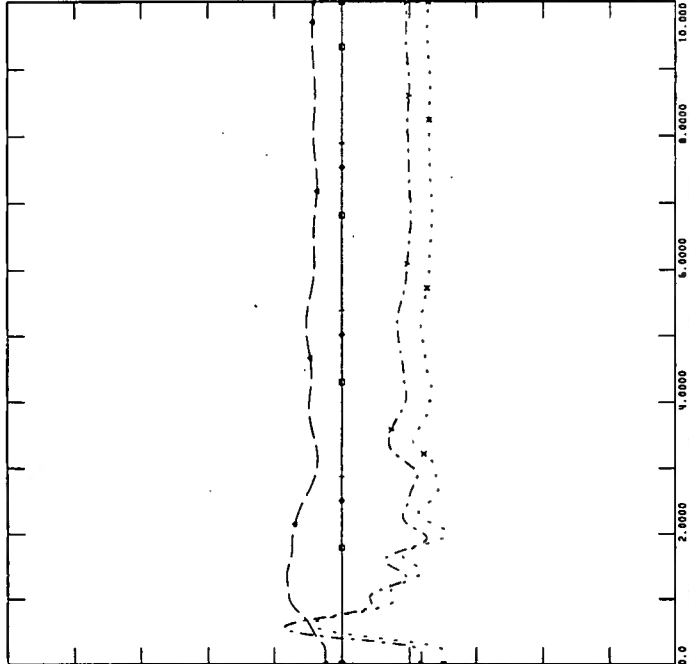
RECOVER FROM D1.SNP AND DS4.CNV
START OUTPUT DS4RUNE3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
RUN FOR 5.75 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4360 CKT 1 / TRIP RAMAPO-ANP CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT
 CHNL = 12: CANGL 9390 CROHLINE 20.0002 C1 JJ

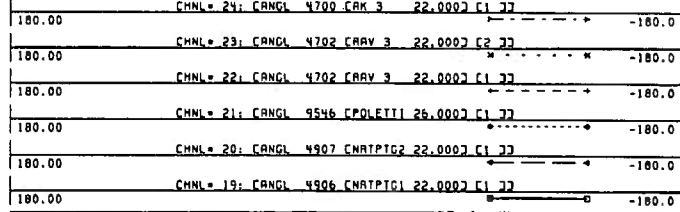


FRI, MAR 31 2000 17:06
 RUN E3A PLOT 2

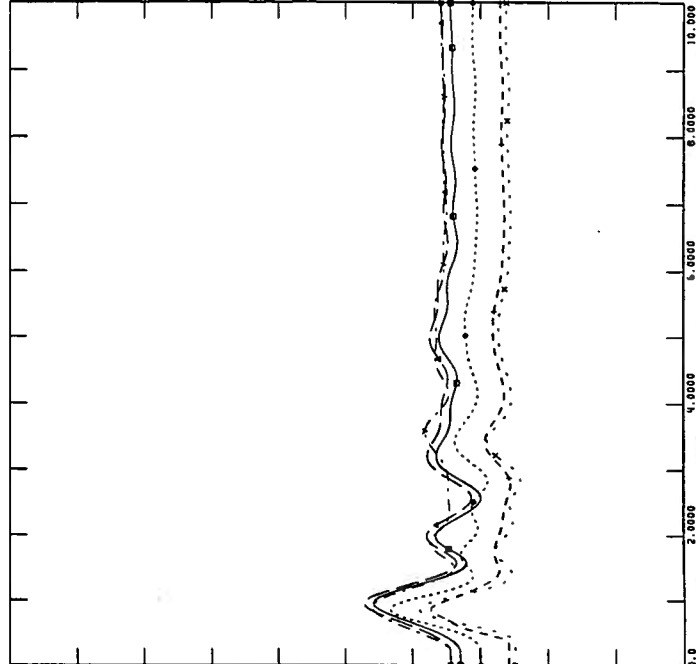


CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT
 CHNL = 24: CANGL 4700 CARV 3 22.0002 C1 JJ

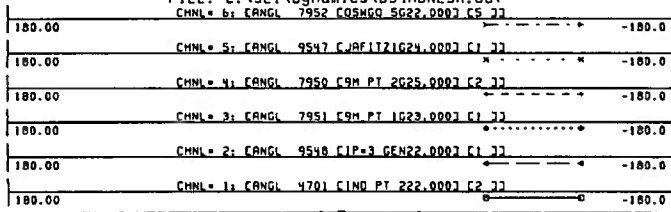


FRI, MAR 31 2000 17:06
 RUN E3A PLOT 4

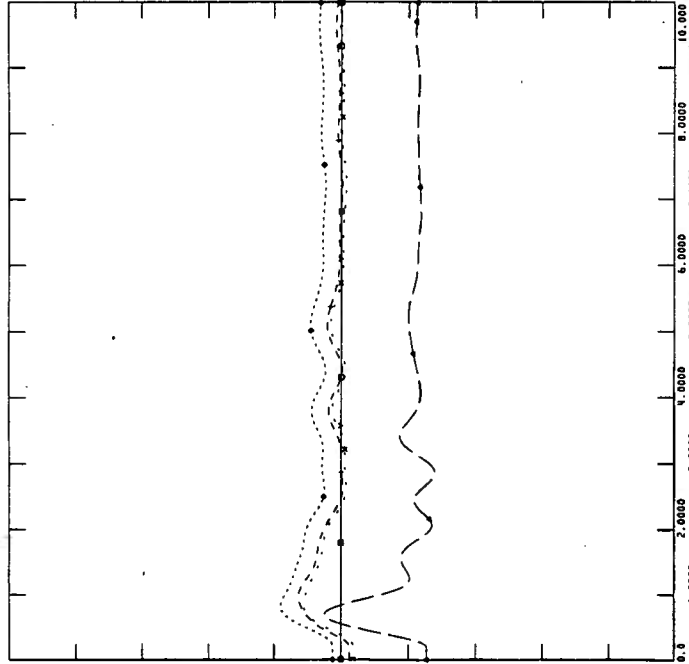


CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT
 CHNL = 6: CANGL 7952 COSHGO 5622.0002 C5 JJ

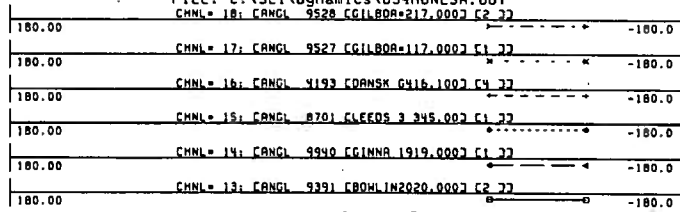


FRI, MAR 31 2000 17:06
 RUN E3A PLOT 1

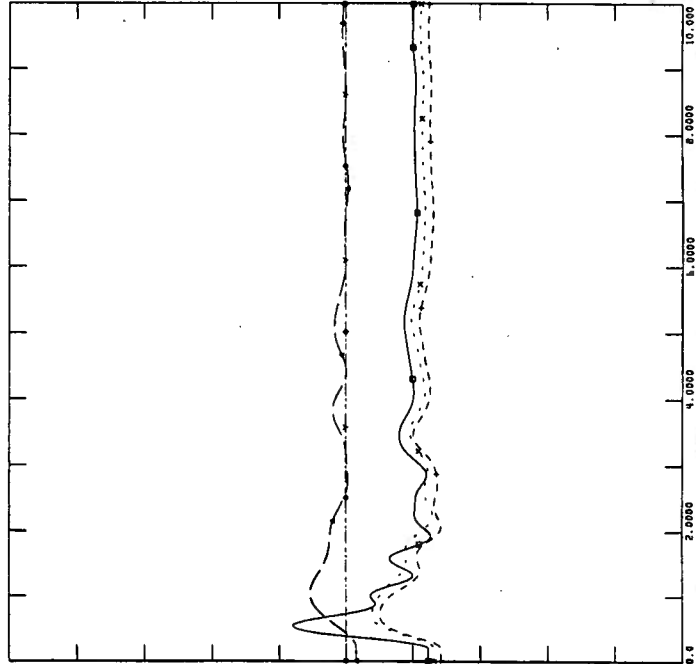


CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT
 CHNL = 18: CANGL 9528 CGILBDA=217.0002 C2 JJ

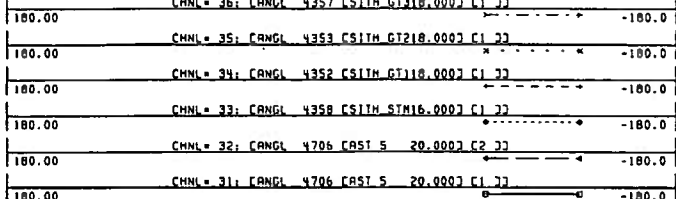


FRI, MAR 31 2000 17:06
 RUN E3A PLOT 3



CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

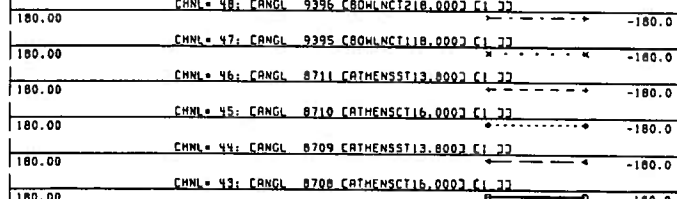
FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT
CHNL = 36: CANGL 4357 CSITH GT218.0007 C1 JJ



FRI, MAR 31 2000 17:06
RUN E3A PLOT 6

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

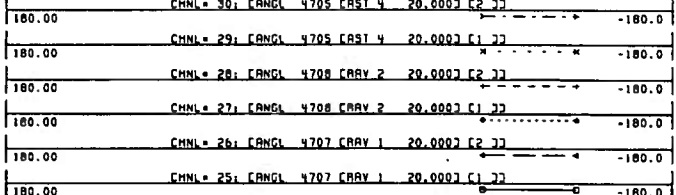
FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT
CHNL = 48: CANGL 9396 CBOMLNCT118.0007 C1 JJ



FRI, MAR 31 2000 17:06
RUN E3A PLOT 8

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

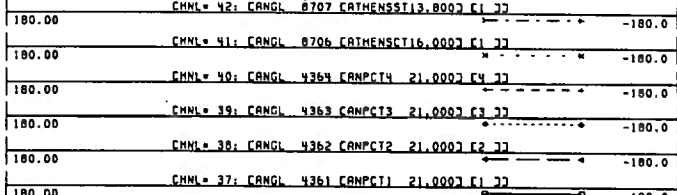
FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT
CHNL = 30: CANGL 4705 CAST 4 20.0007 C2 JJ



FRI, MAR 31 2000 17:06
RUN E3A PLOT 5

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT
CHNL = 42: CANGL 8707 CATHENSST13.8007 C1 JJ

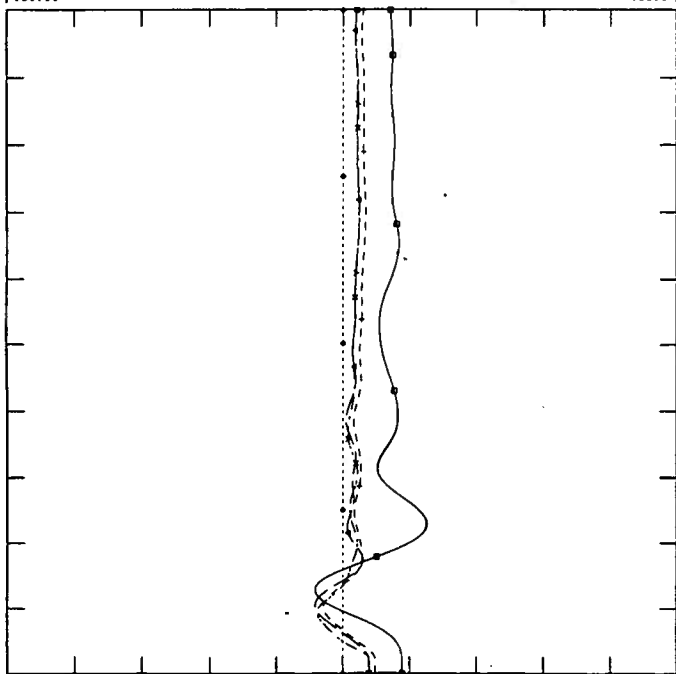


FRI, MAR 31 2000 17:06
RUN E3A PLOT 7

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT
 CHNL = 60; CANGI 23311 CMATH CM424.0000 CI JJ

180.00 CHNL = 59; CANGI 23310 CMATH CM324.0000 CI JJ -180.0
 180.00 CHNL = 58; CANGI 23041 CLIMERIC2.0000 CI JJ -180.0
 180.00 CHNL = 57; CANGI 23499 CLIMERIC122.0000 CI JJ -180.0
 180.00 CHNL = 56; CANGI 23039 CHOPE CA J CI JJ -180.0
 180.00 CHNL = 55; CANGI 2864 CSARK G1 25.0000 CI JJ -180.0

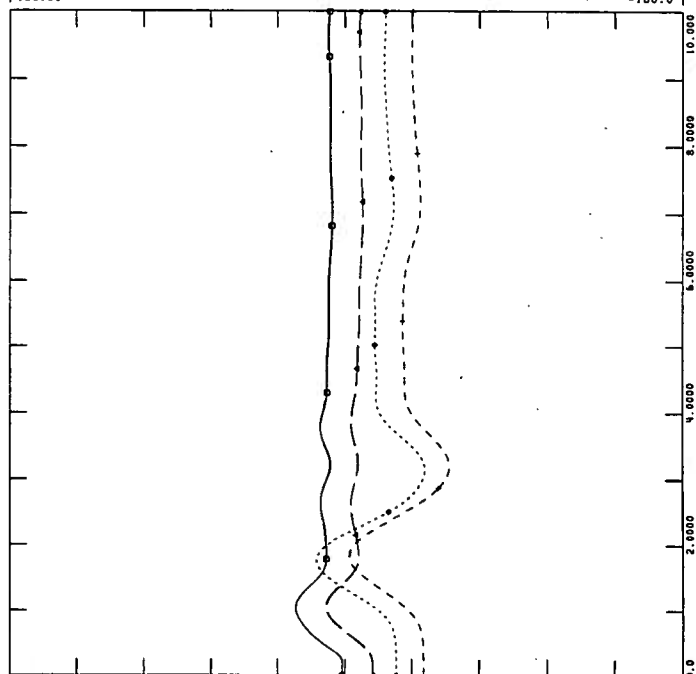


FRI, MAR 31 2000 17:06
 RUN E3A PLOT 10

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT

180.00 CHNL = 70; CANGI 17472 CB1DNG2 19.0000 CI JJ -180.0
 180.00 CHNL = 69; CANGI 17456 CLEPAGI 26.0000 CI JJ -180.0
 180.00 CHNL = 68; CANGI 23194 CT M 1 G1.0000 CI JJ -180.0
 180.00 CHNL = 67; CANGI 23040 CSUSQUEHA J CI JJ -180.0

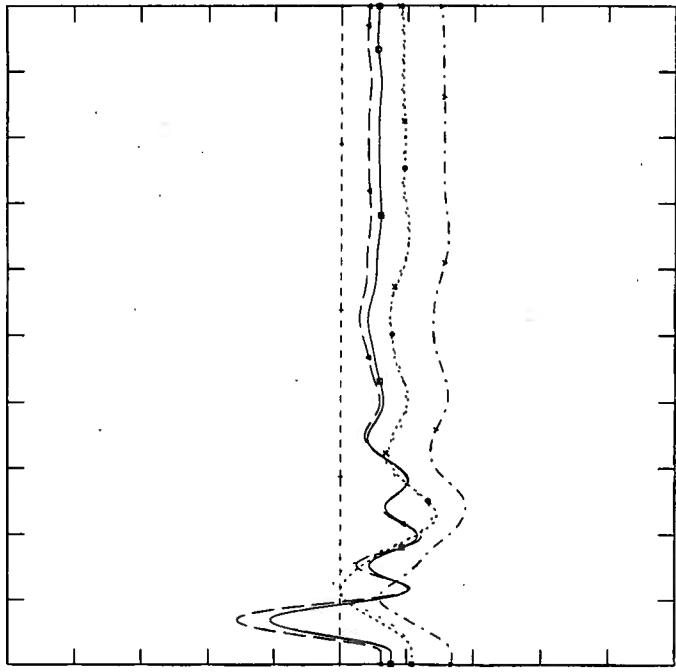


FRI, MAR 31 2000 17:06
 RUN E3A PLOT 12

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT
 CHNL = 54; CANGI 3648 CBPTNBR322.0000 CI JJ

180.00 CHNL = 53; CANGI 2371 CBP +4 CM22.0000 CI JJ -180.0
 180.00 CHNL = 52; CANGI 3563 CMILL=3 24.0000 CI JJ -180.0
 180.00 CHNL = 51; CANGI 3562 CMILL=2 24.0000 CI JJ -180.0
 180.00 CHNL = 50; CANGI 9398 CBOWNST 18.0000 CI JJ -180.0
 180.00 CHNL = 49; CANGI 9397 CBOWNST18.0000 CI JJ -180.0

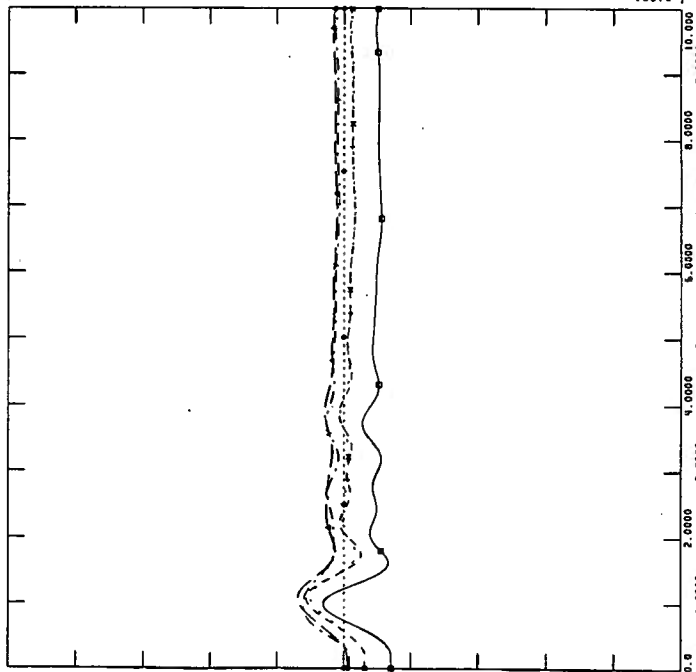


FRI, MAR 31 2000 17:06
 RUN E3A PLOT 9

CASE DS4: 2001 SUMMER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT
 CHNL = 66; CANGI 23368 CSUSA 1 24.0000 CI JJ

180.00 CHNL = 65; CANGI 23002 CSALEM G2 J CI JJ -180.0
 180.00 CHNL = 64; CANGI 23001 CSALEM G1 J CI JJ -180.0
 180.00 CHNL = 63; CANGI 23000 CPCHATH=3 J CI JJ -180.0
 180.00 CHNL = 62; CANGI 25999 CPCHATH=2 J CI JJ -180.0
 180.00 CHNL = 61; CANGI 23201 COYSTCAG J CI JJ -180.0

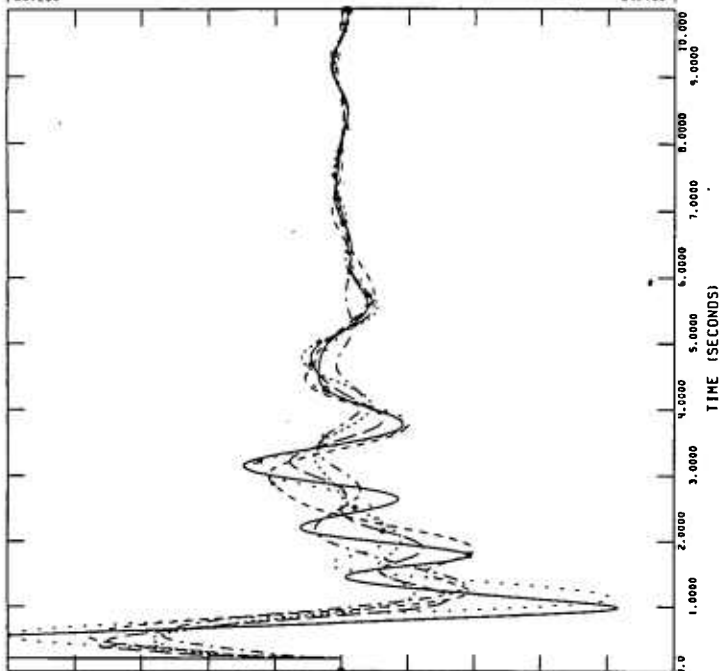


FRI, MAR 31 2000 17:06
 RUN E3A PLOT 11

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT

CHNL = 705: 50=11-CFREQ 23000 CALBATT(13300.0000)
CHNL = 706: 50=11-CFREQ 4327 CFARAGUT(345.0000)
CHNL = 707: 50=11-CFREQ 3105 CLONG MTN(345.0000)
CHNL = 708: 50=11-CFREQ 9577 CMARCT(765765.0000)
CHNL = 709: 50=11-CFREQ 5403 CFARAGUT(345.0000)
CHNL = 700: 50=11-CFREQ 4347 CAMAPO 345.0000



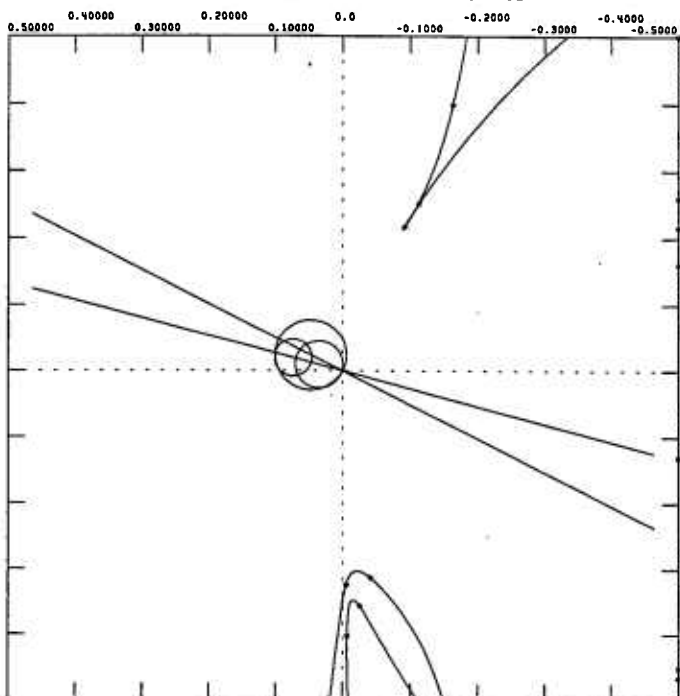
FRI, MAR 31 2000 17:06
RUN E3A PLOT 14

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

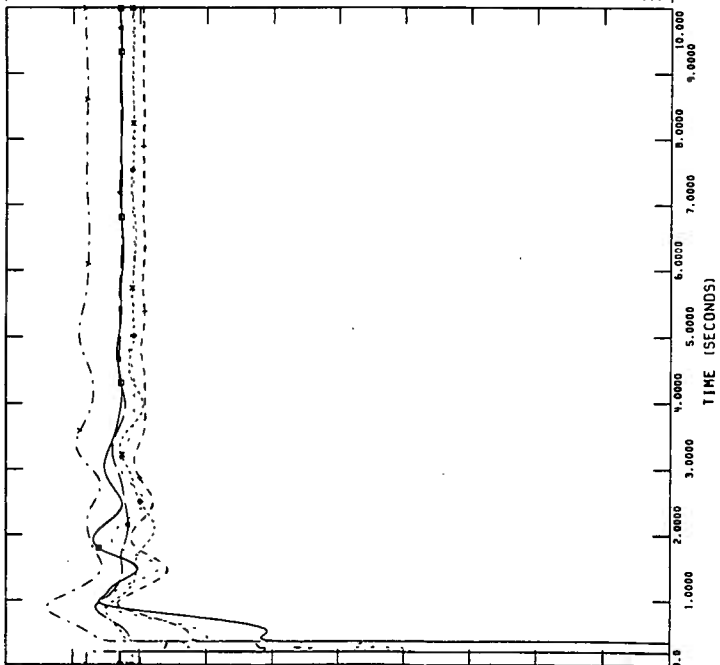


FRI, MAR 31 2000 17:06
RUN E3A PLOT 15

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT

CHNL = 651: CVOLT 23000 CALBATT(13300.0000)
CHNL = 508: CVOLT 4327 CFARAGUT(345.0000)
CHNL = 636: CVOLT 3105 CLONG MTN(345.0000)
CHNL = 572: CVOLT 9577 CMARCT(765765.0000)
CHNL = 545: CVOLT 5403 CFARAGUT(345.0000)
CHNL = 528: CVOLT 4347 CAMAPO 345.0000

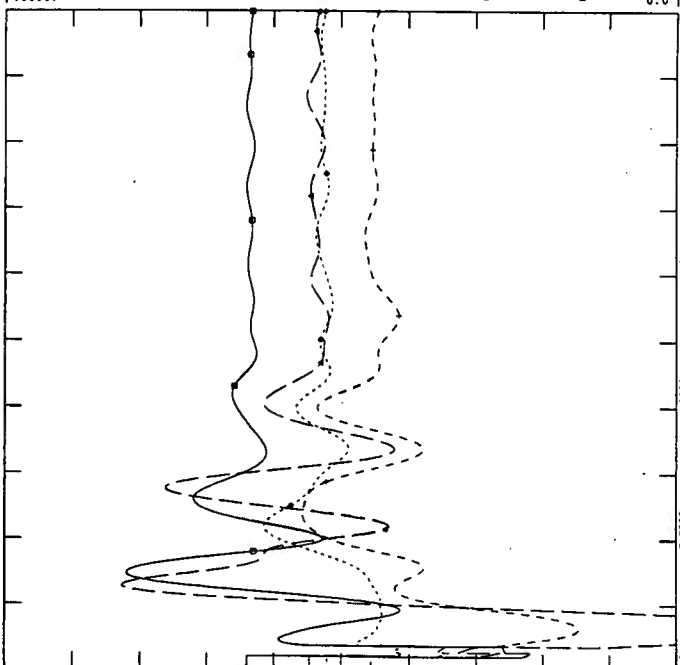


FRI, MAR 31 2000 17:06
RUN E3A PLOT 16

CASE DS4: 2001 SUMMER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DS4RUNE3A.OUT

CHNL = 690: CMW TOTAL EAST
CHNL = 689: CMW CENTRAL EAST
CHNL = 688: CMW UPNY TO SENY
CHNL = 687: CMW UPNY TO CONED



FRI, MAR 31 2000 17:06
RUN E3A PLOT 17

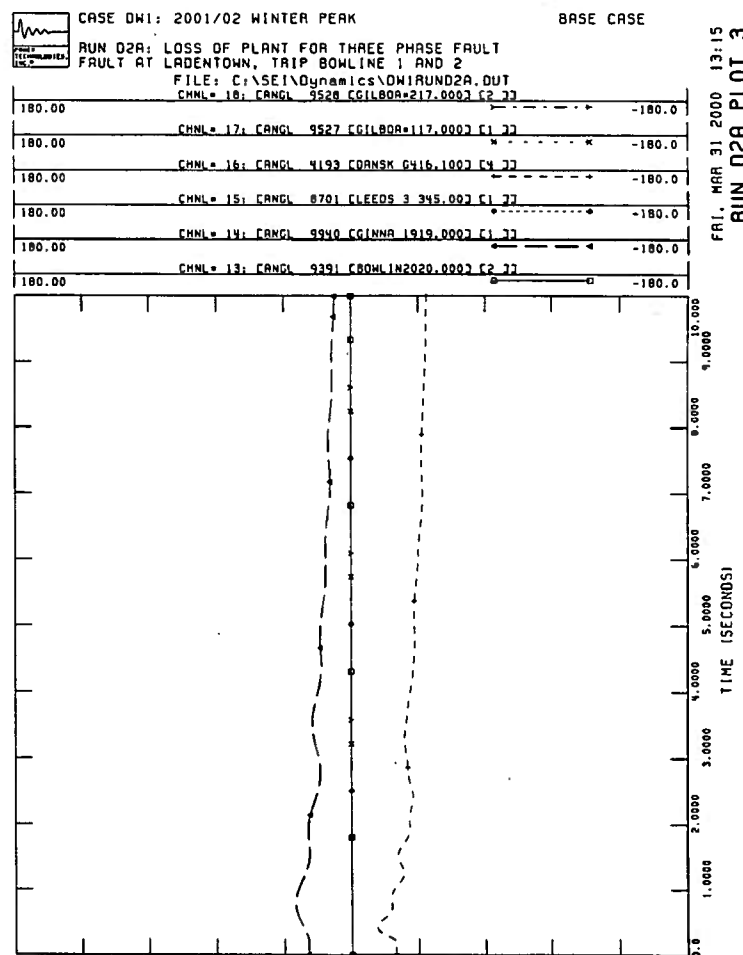
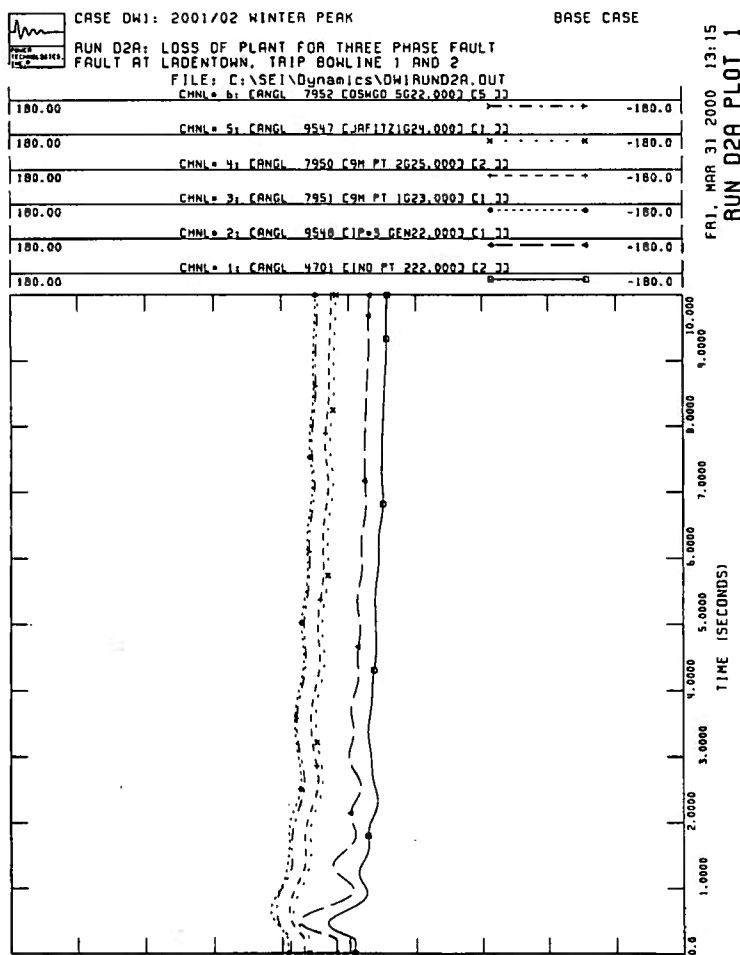
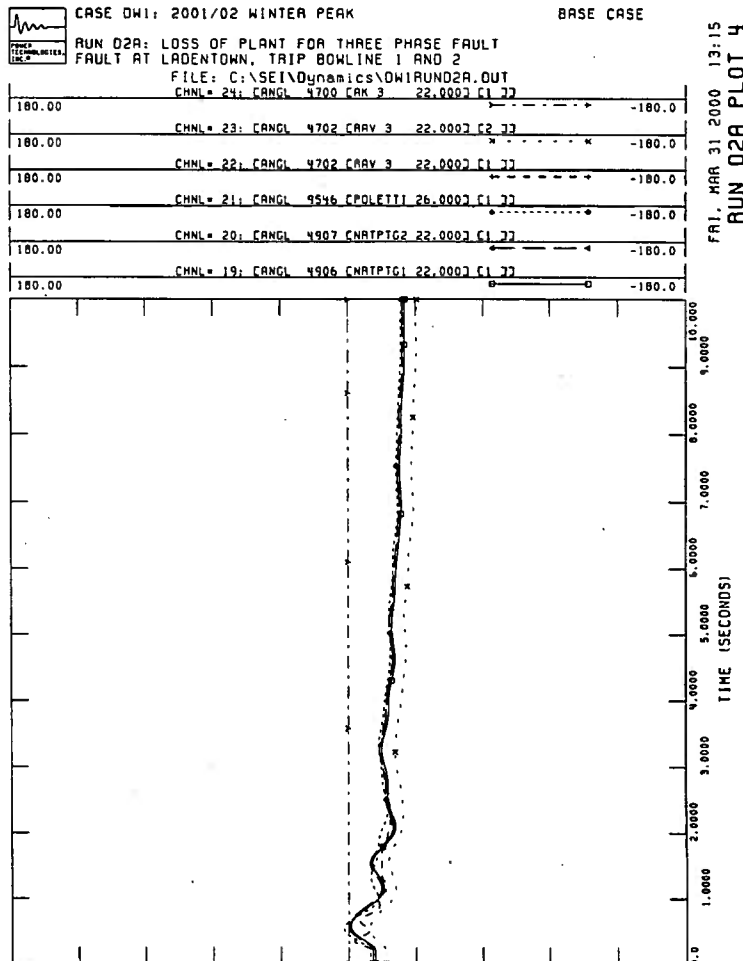
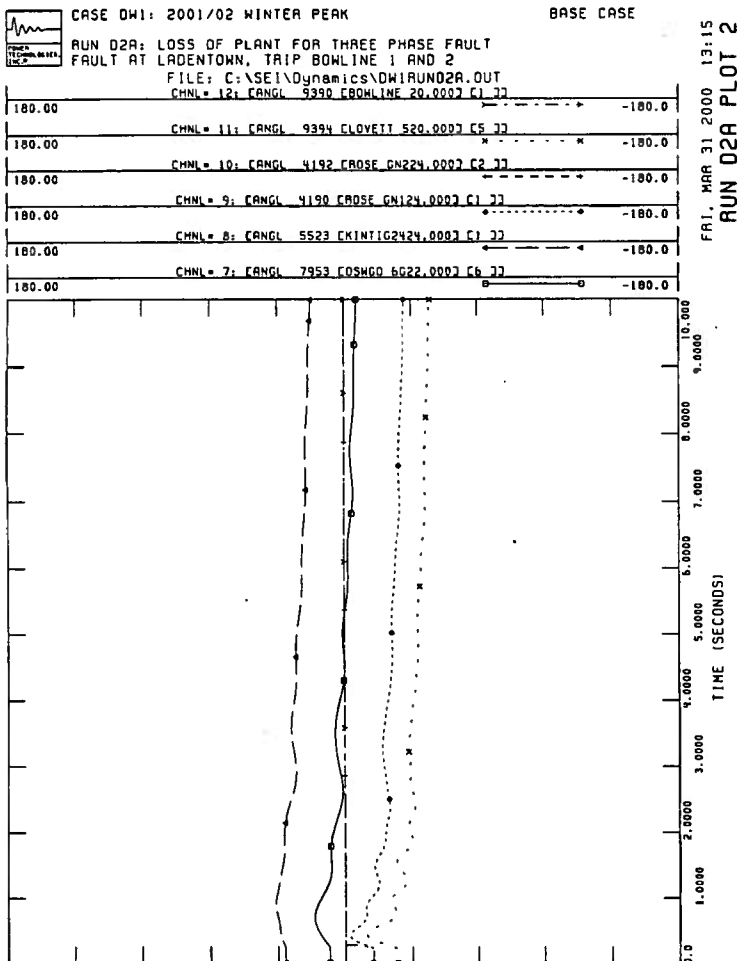
APPENDIX F.5 - Summer Peak Case DW1

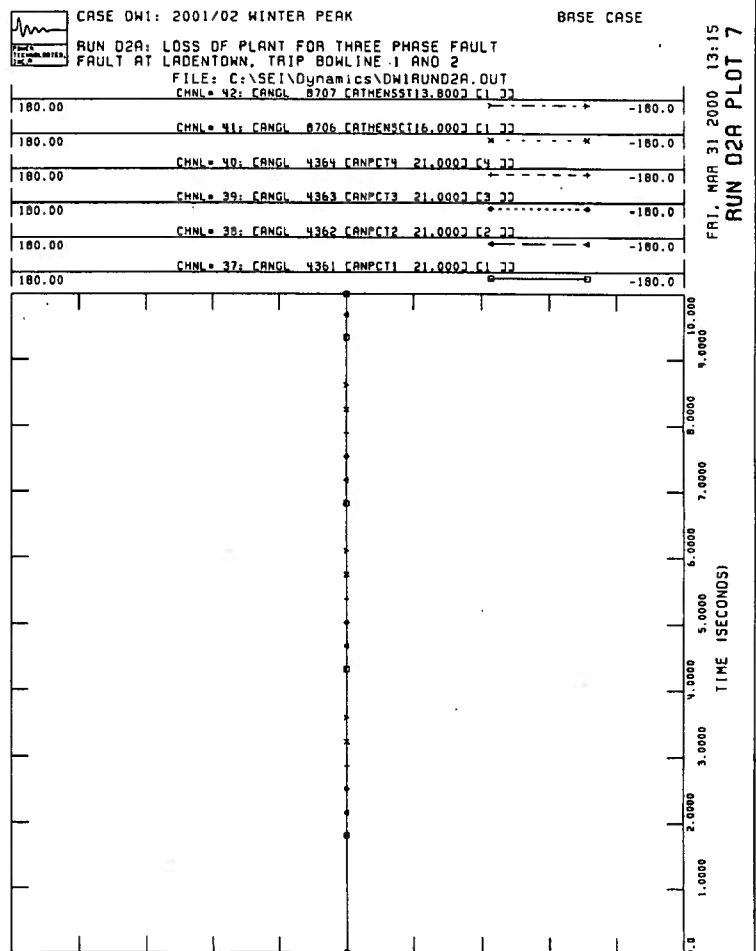
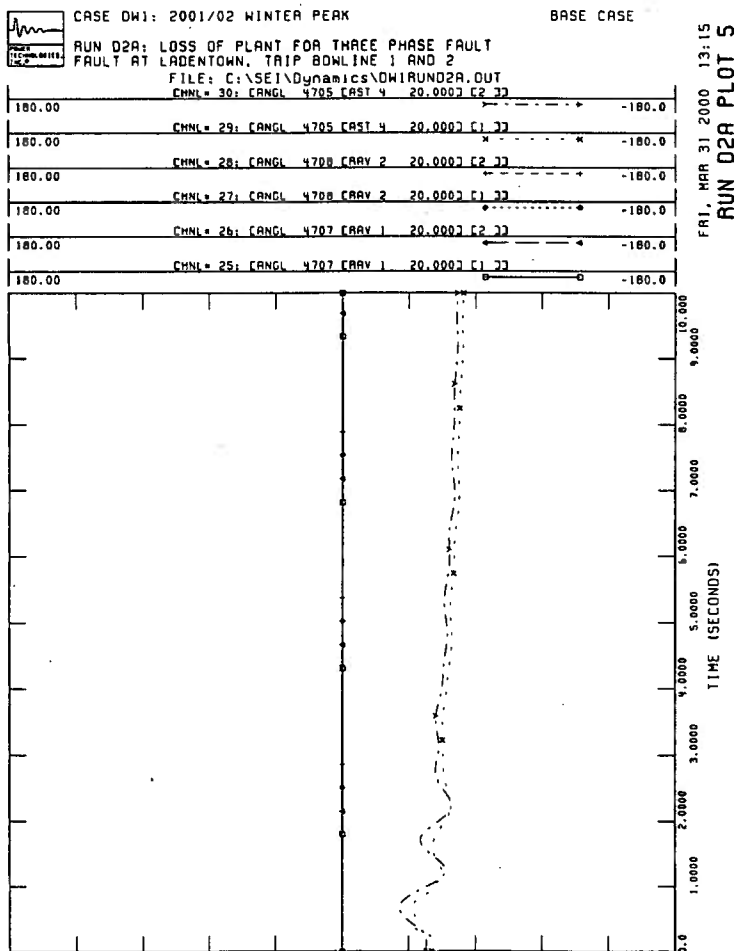
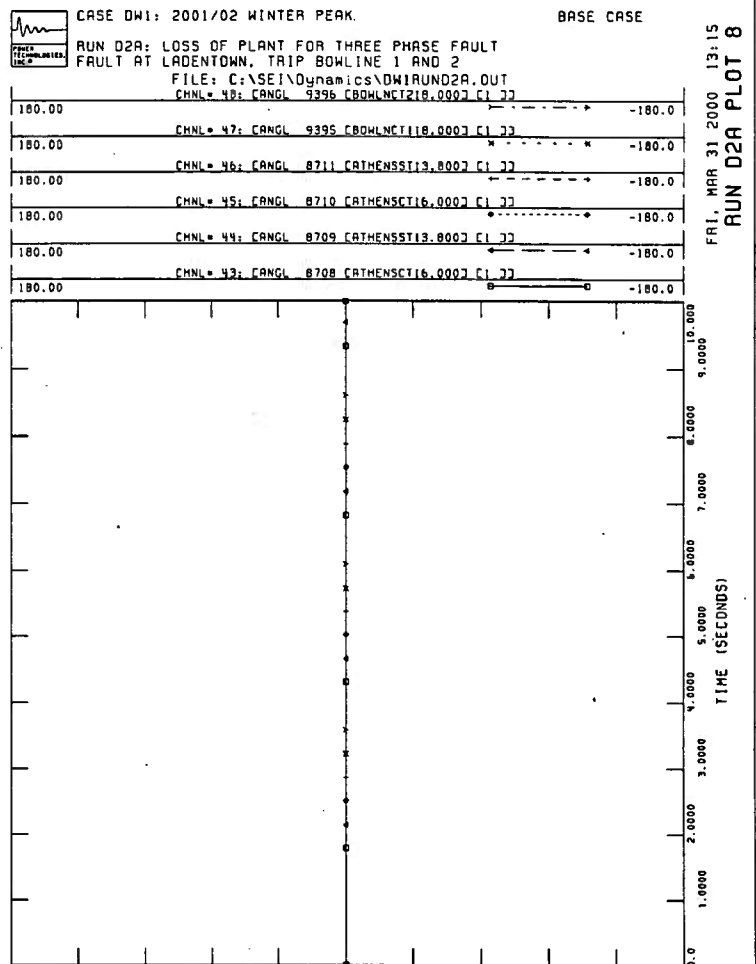
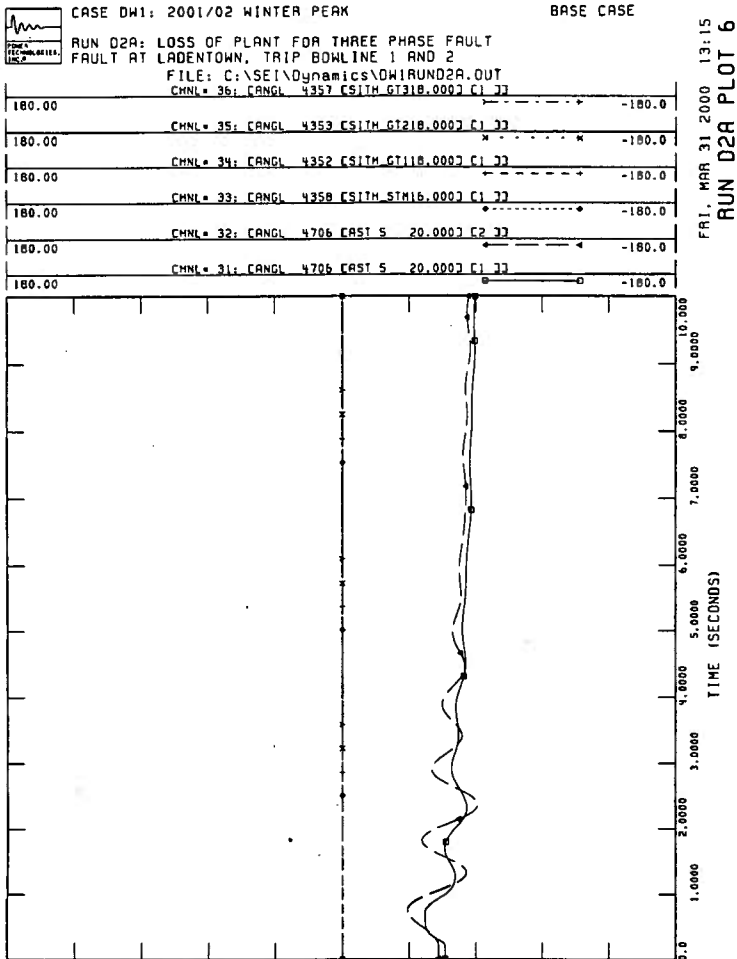
Bowline 2 and 3, Athens, ANP and Sithe Off-Line

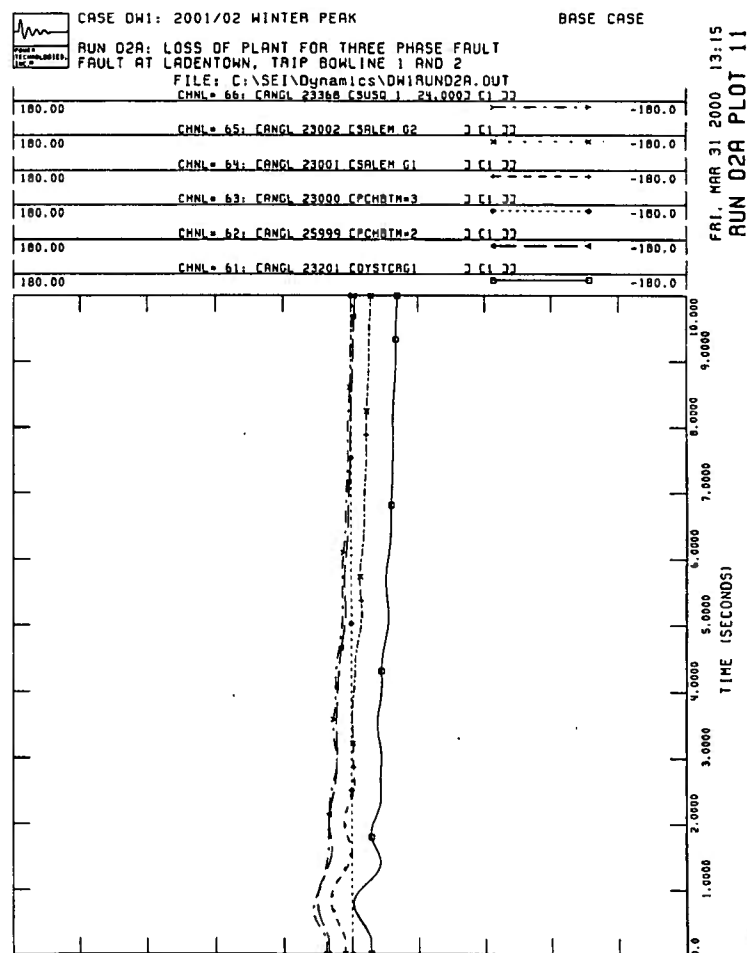
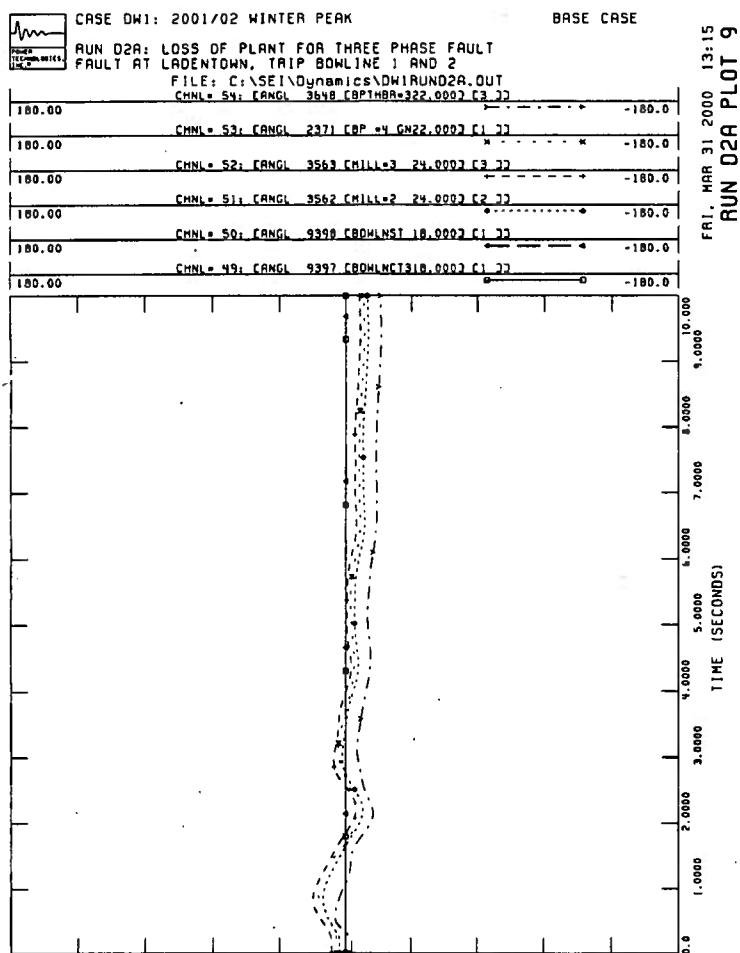
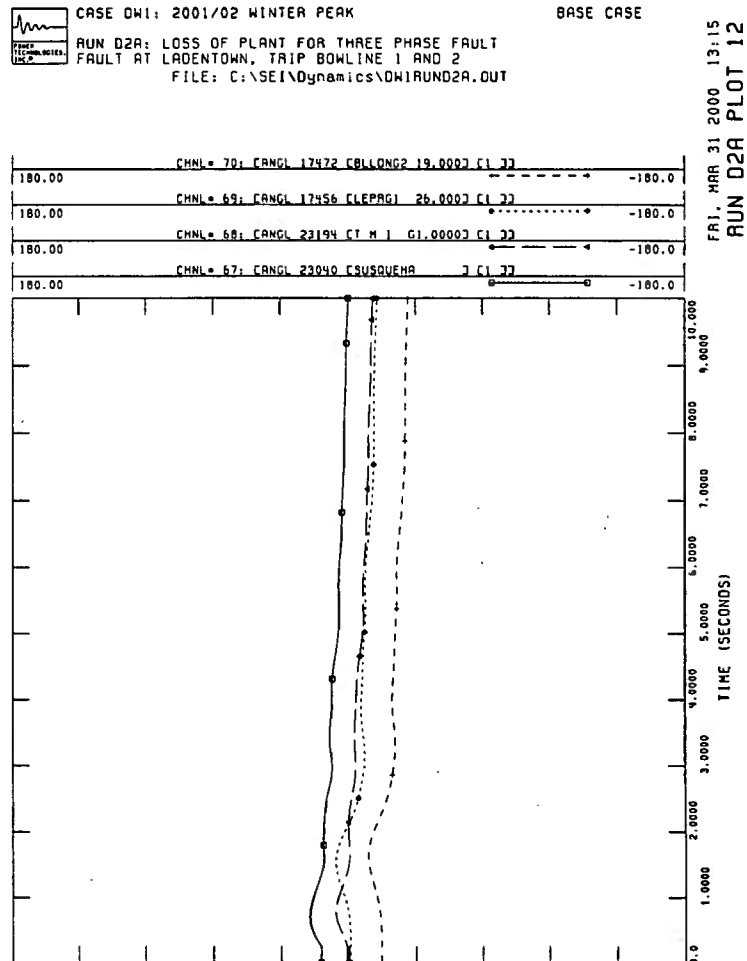
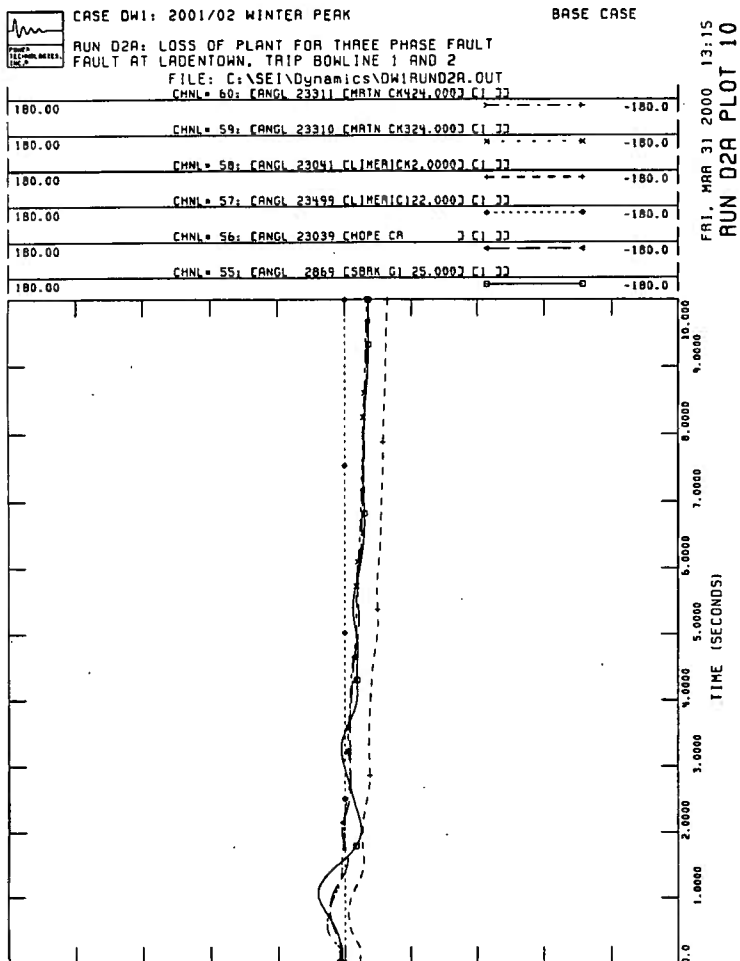
Bowline 1 On-Line

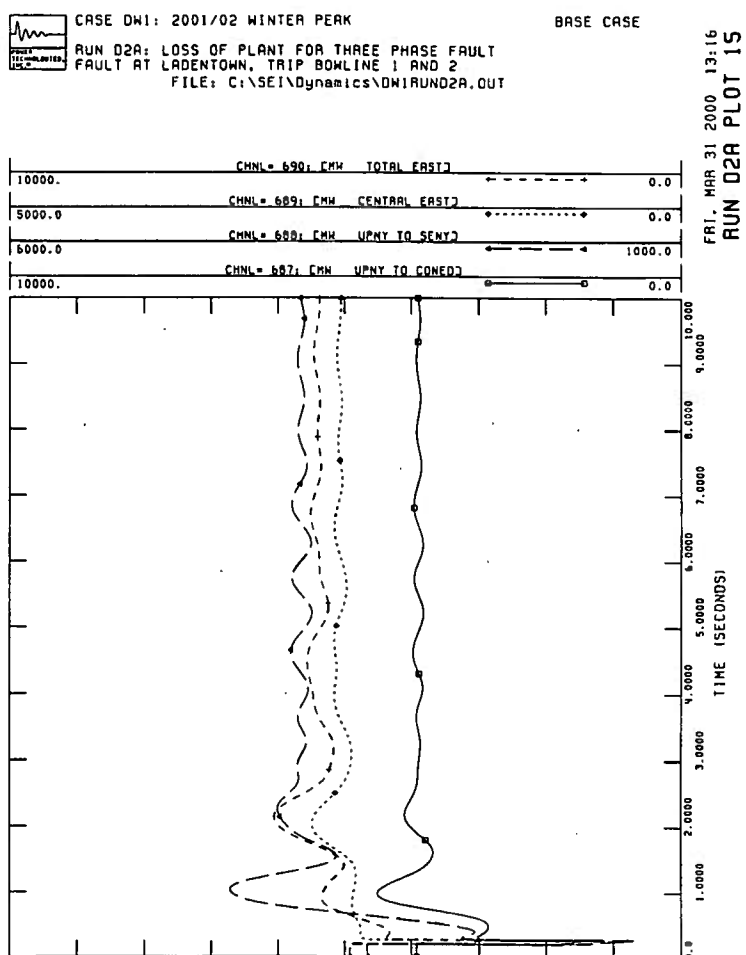
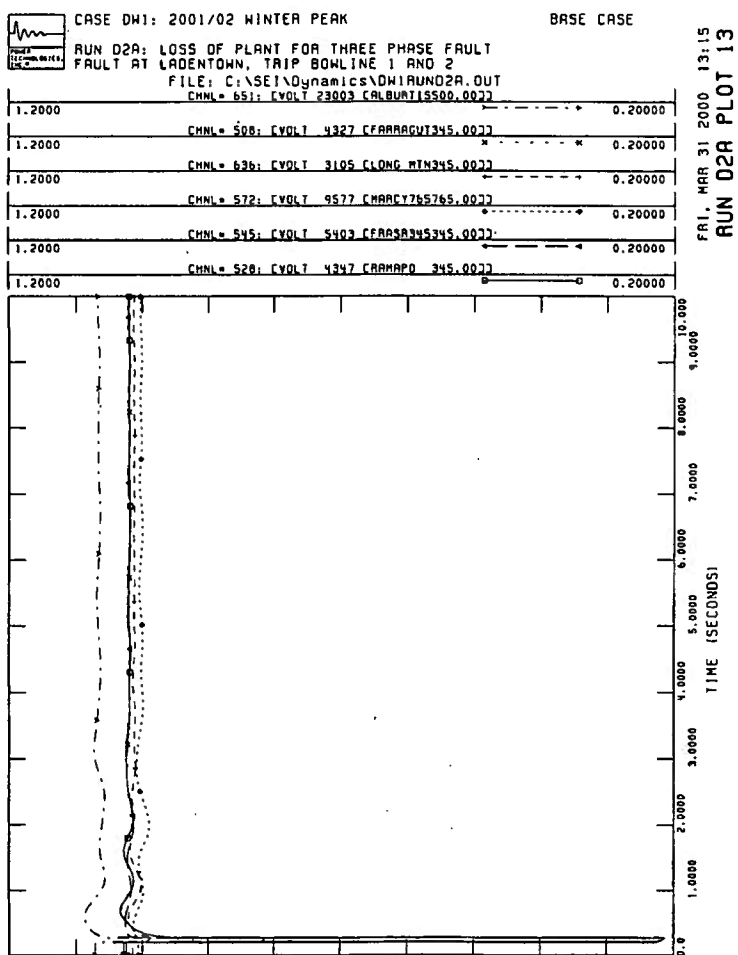
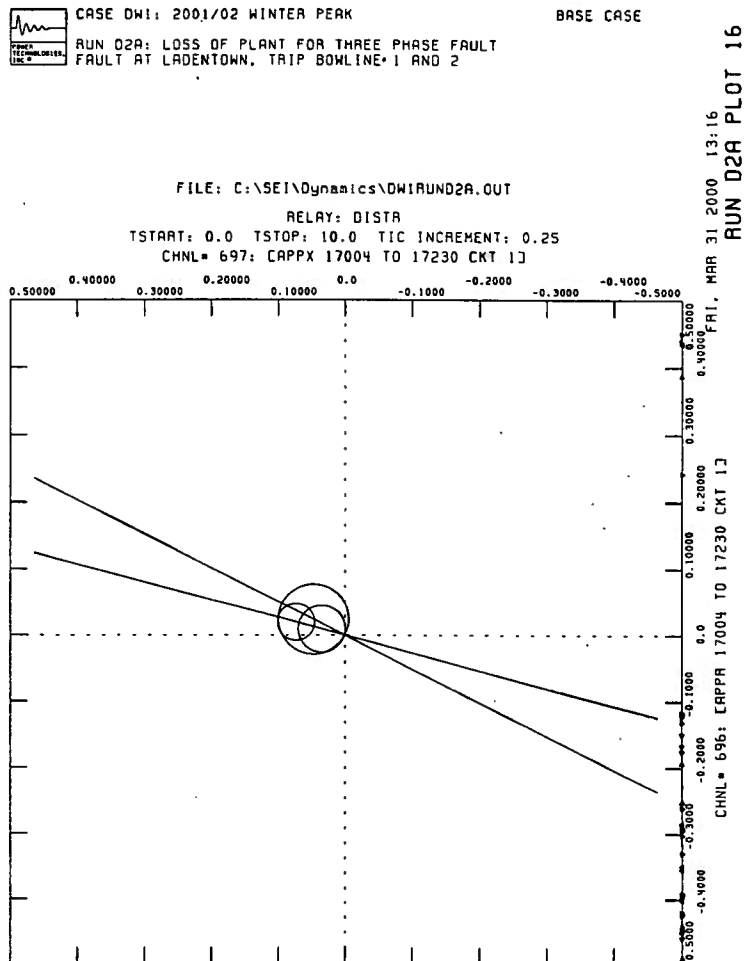
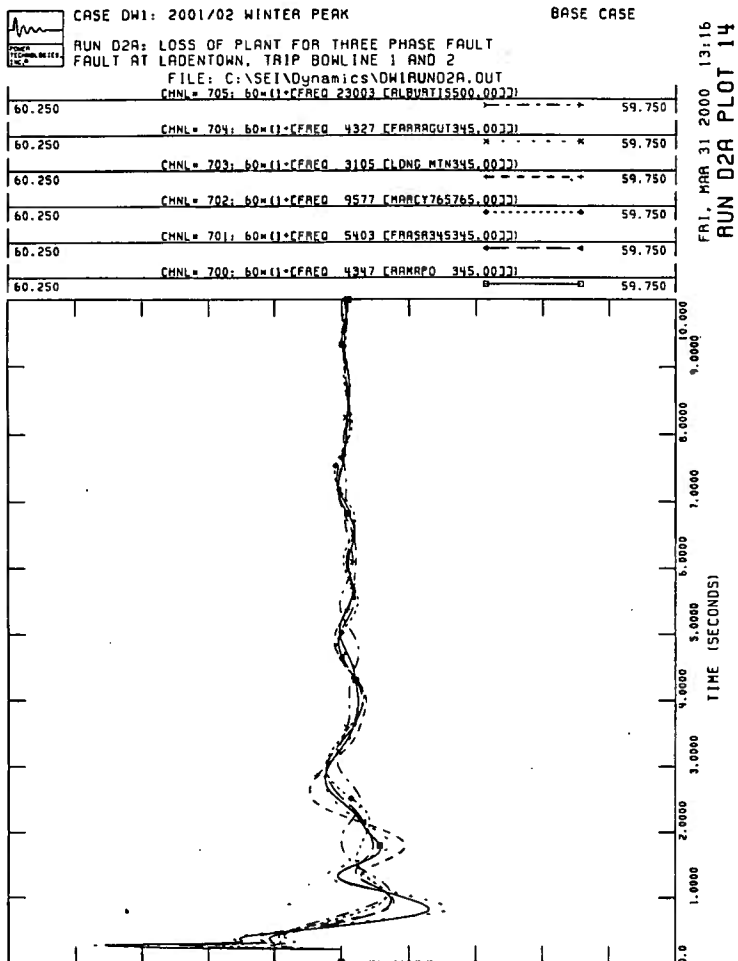
CONTINGENCY D2A

RECOVER FROM D1.SNP AND DW1.CNV
START OUTPUT DW1RUND2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9390 / TRIP BOWLINE 1
DROP GENERATOR 2 AT BUS 9391 / TRIP BOWLINE 2
DISCONNECT BUS 4310 /
DISCONNECT BUS 4311 /
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



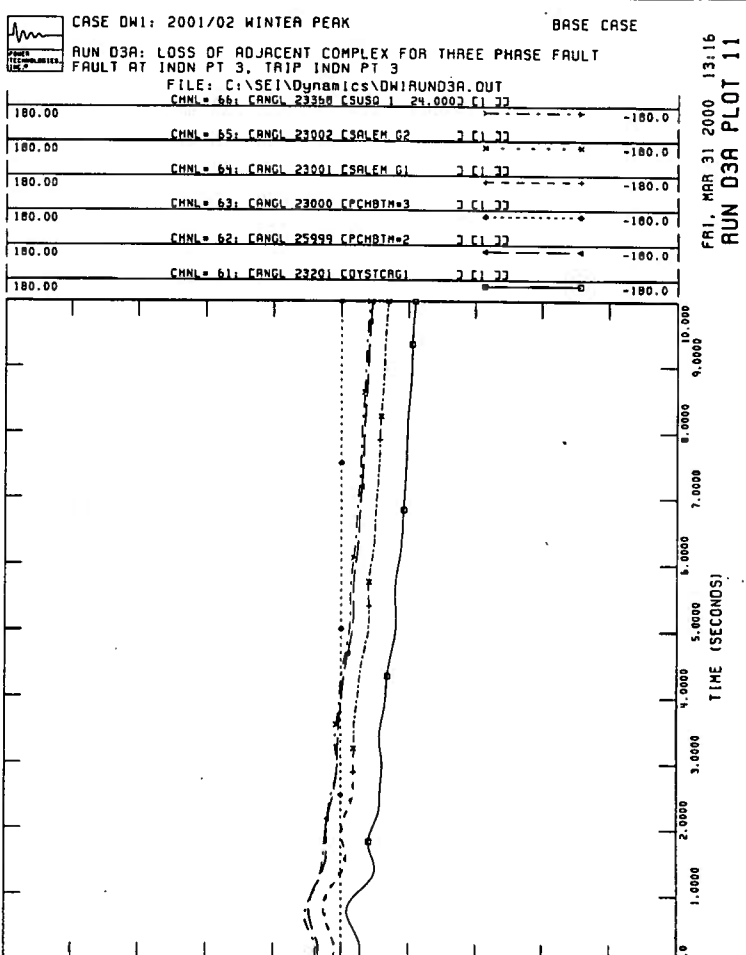
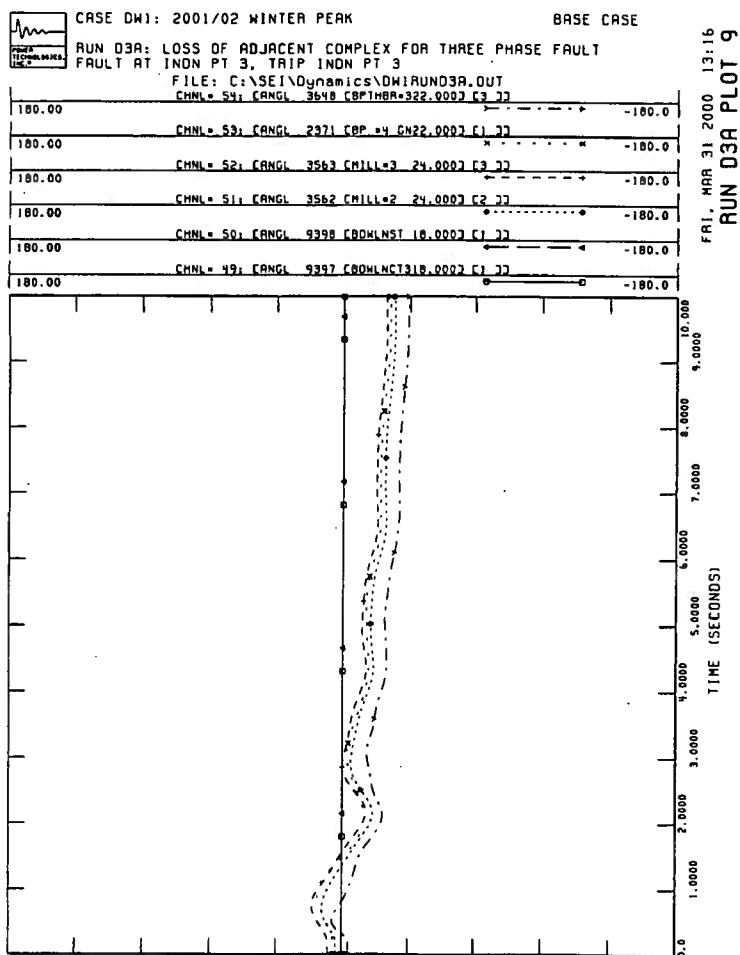
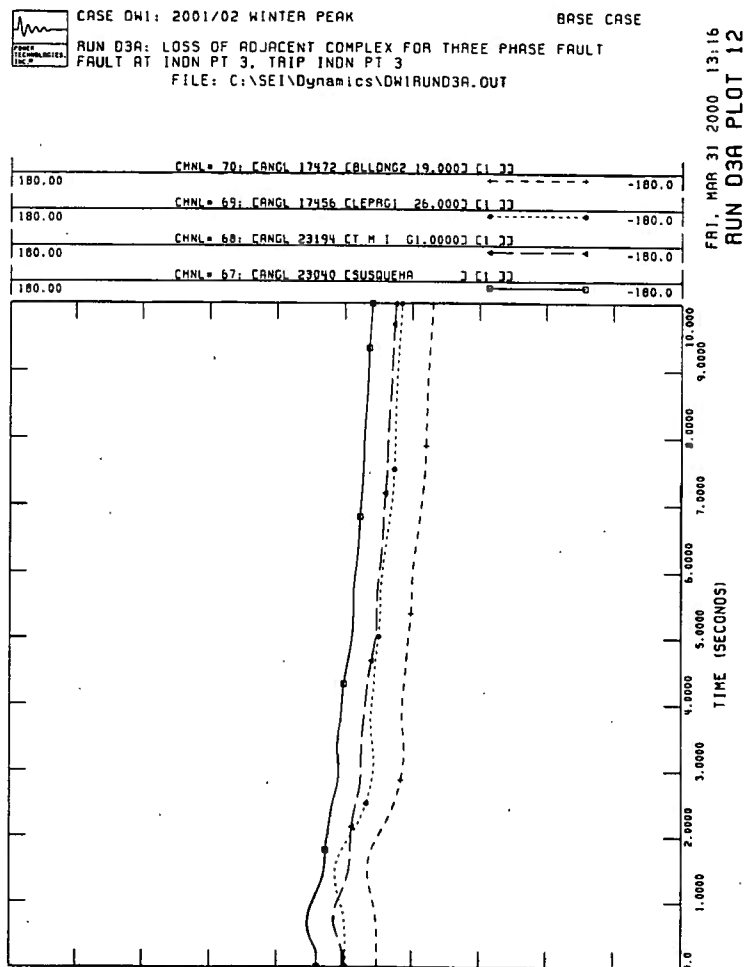
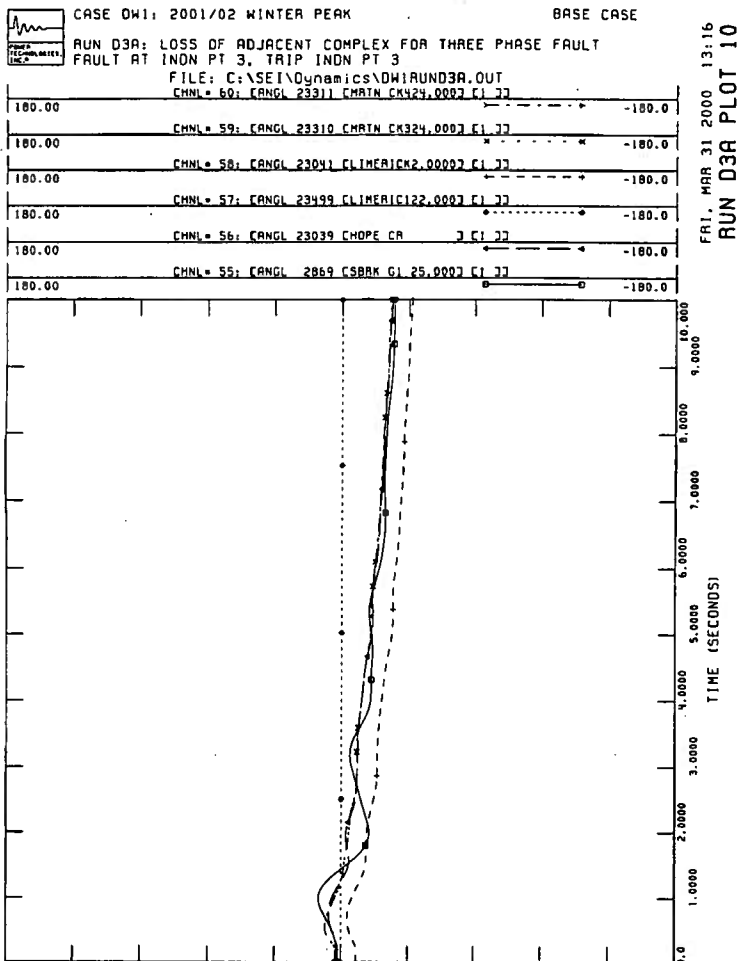


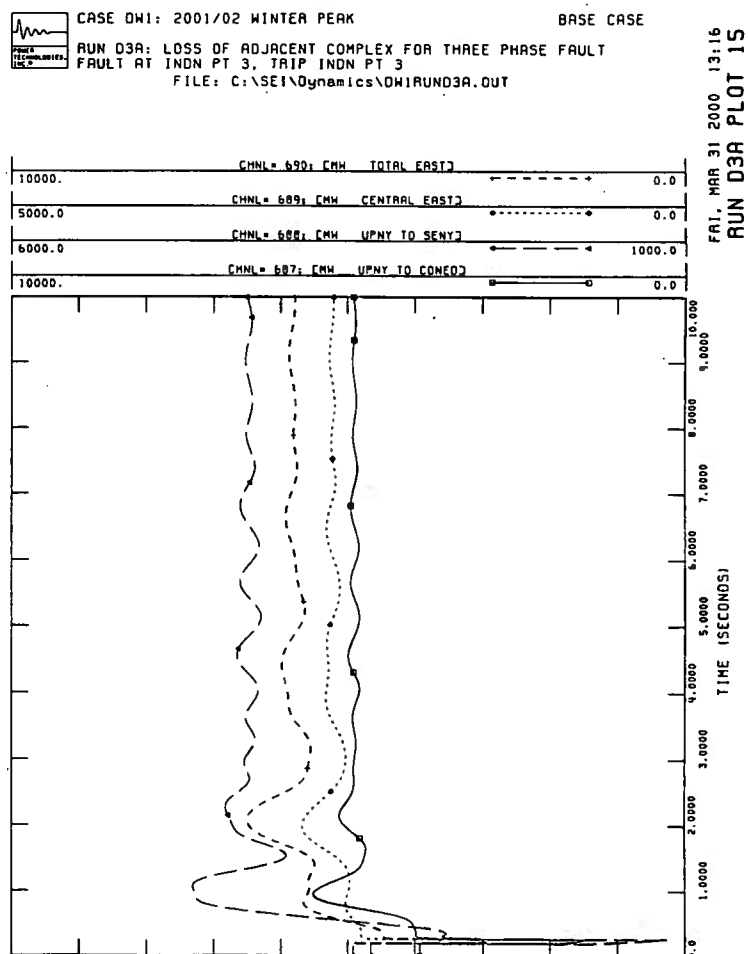
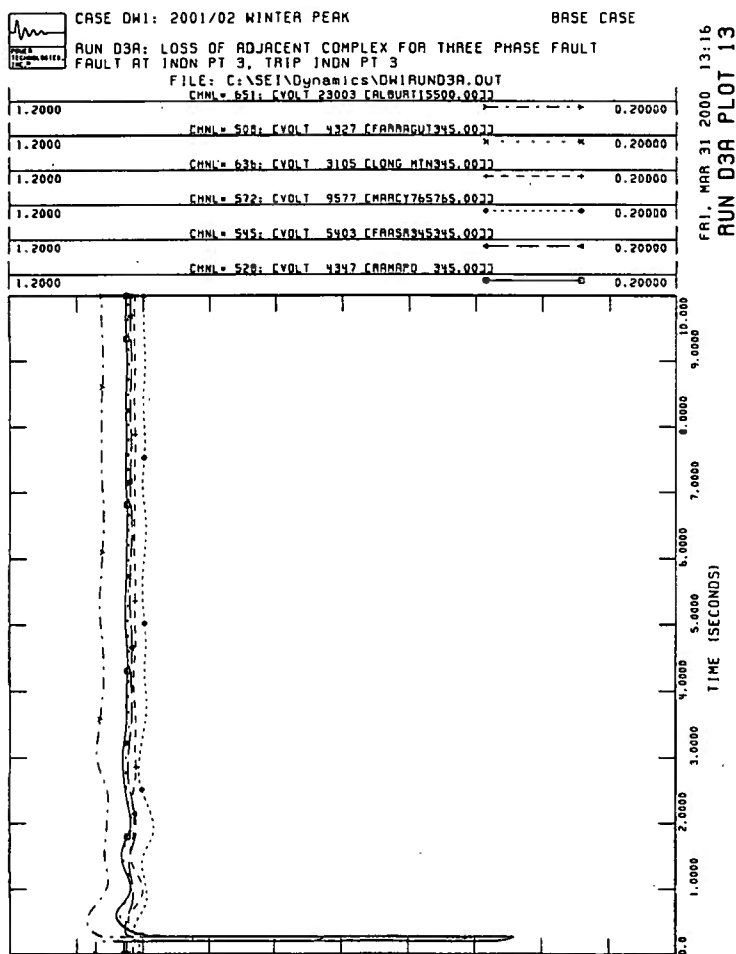
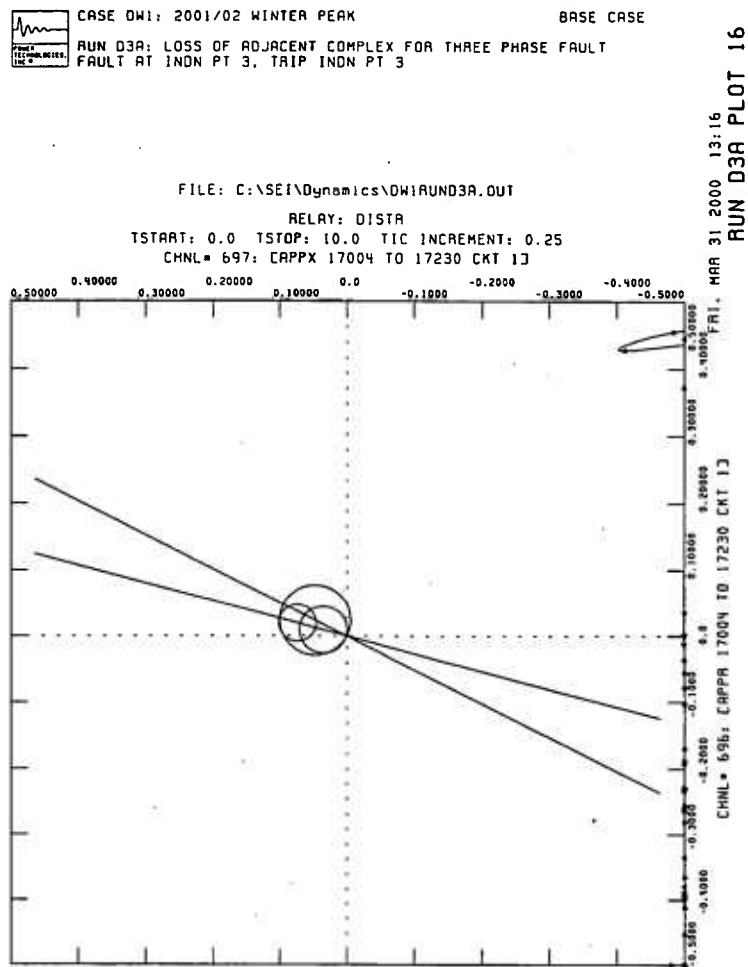
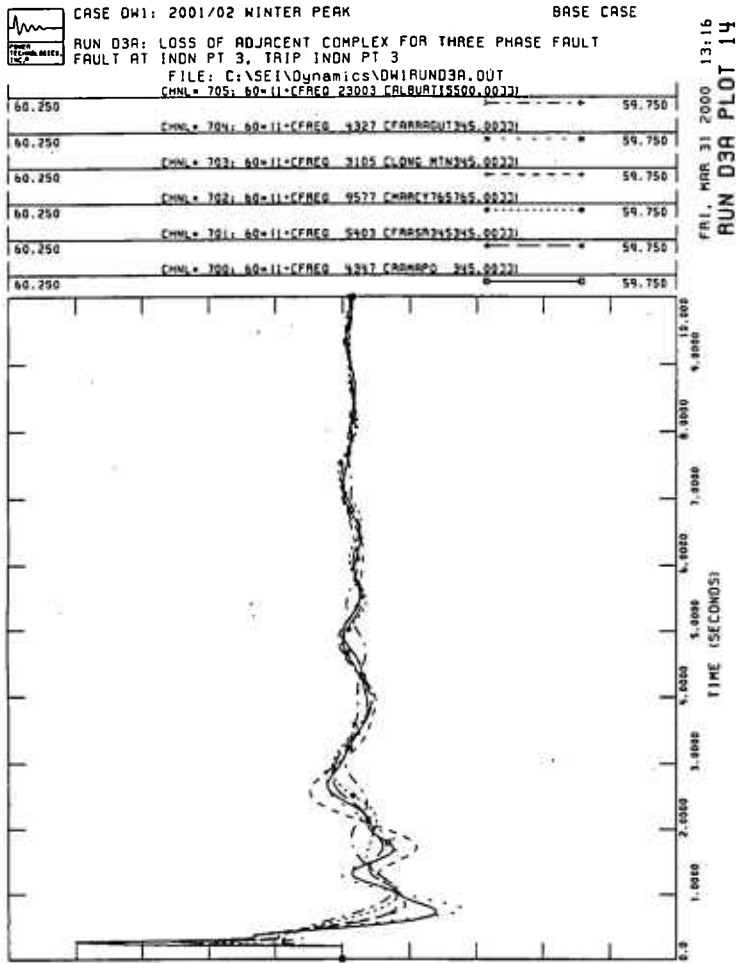




CONTINGENCY D3A

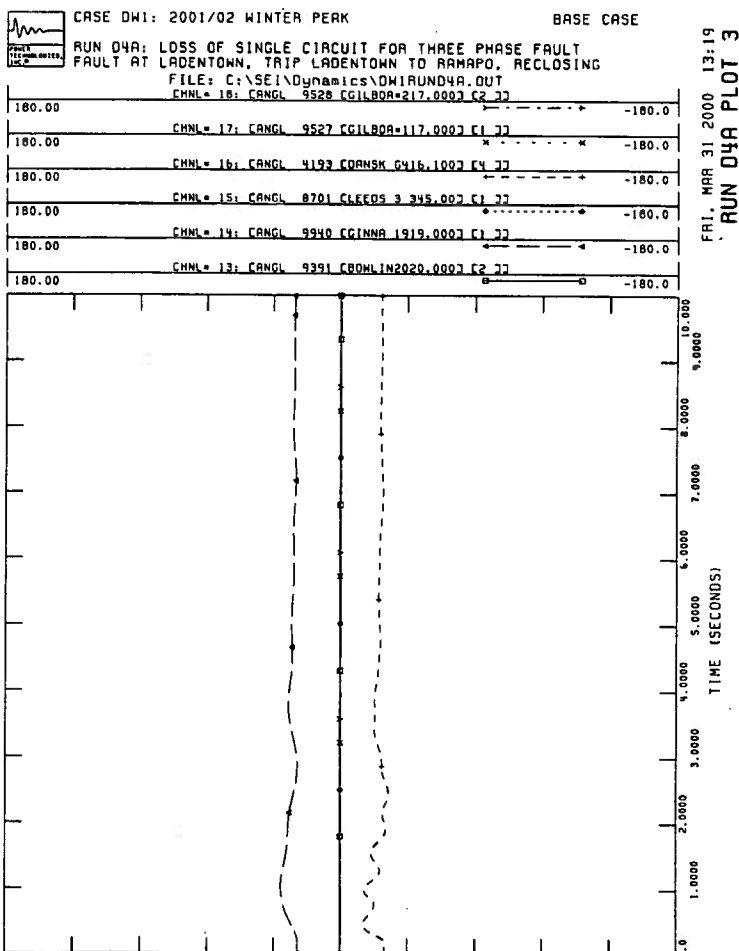
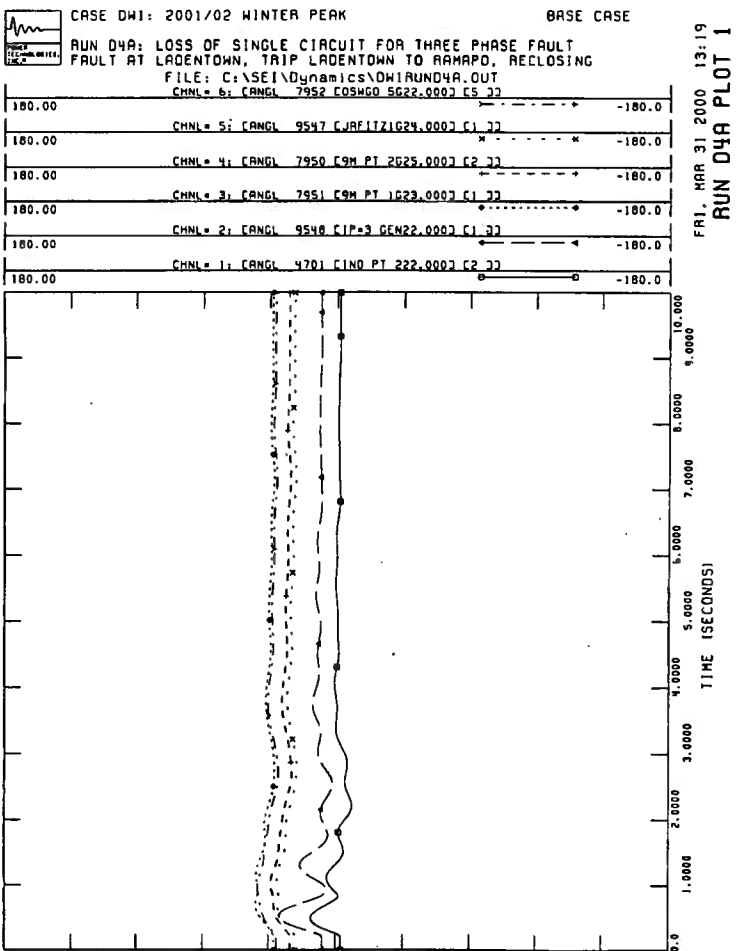
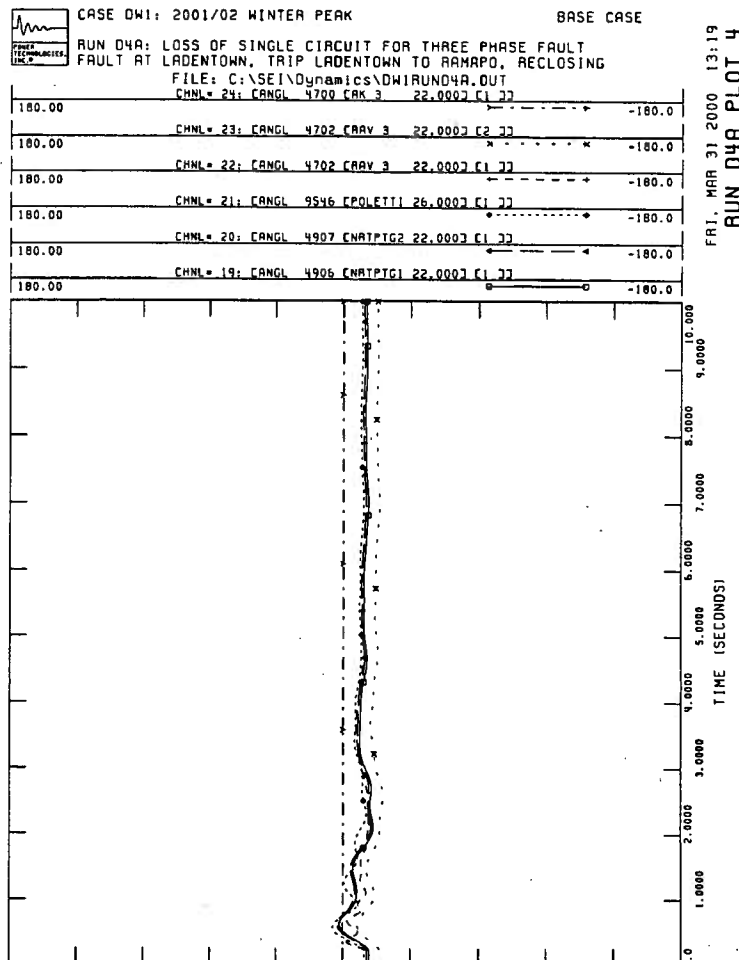
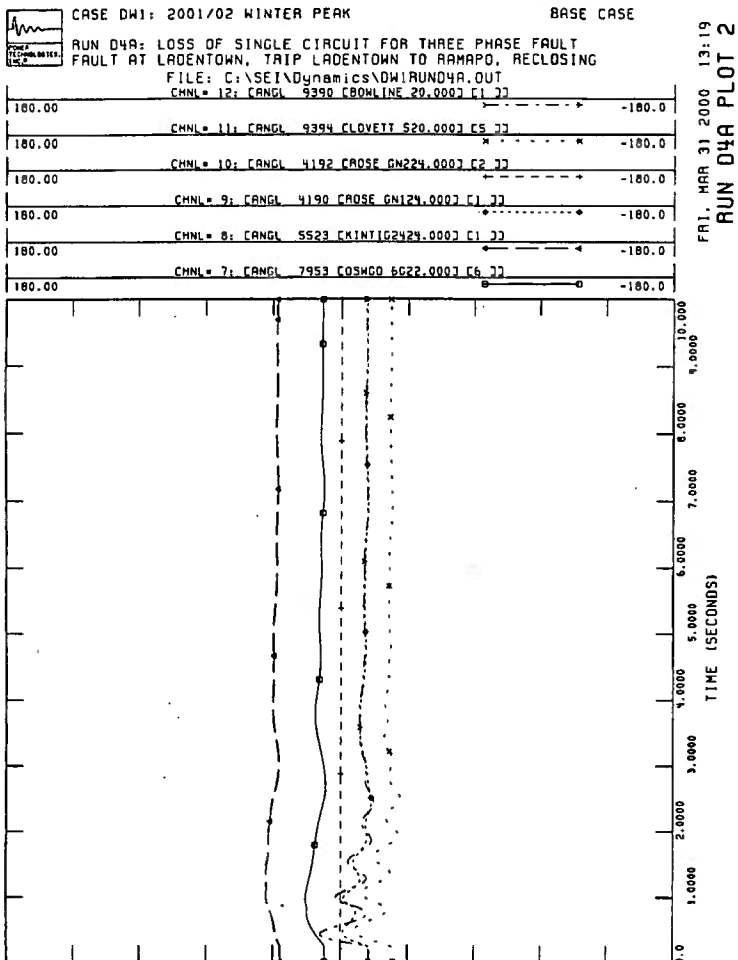
RECOVER FROM D1.SNP AND DW1.CNV
START OUTPUT DW1RUND3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 9582 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT INDN PT 3
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9548 / TRIP INDN PT 3
TRIP LINE FROM BUS 4313 TO BUS 9582 CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3





CONTINGENCY D4A

RECOVER FROM D1.SNP AND DW1.CNV
START OUTPUT DW1RUND4A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4347 CKT 1 / TRIP LADENTOWN-RAMAPO
CLEAR FAULT
RUN FOR 31 CYCLES PRINT 0 PLOT 3
APPLY FAULT BUS 4347 IMPEDANCE 0.119 2.642 OHMS BASEKV 345 / RECLOSE AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3





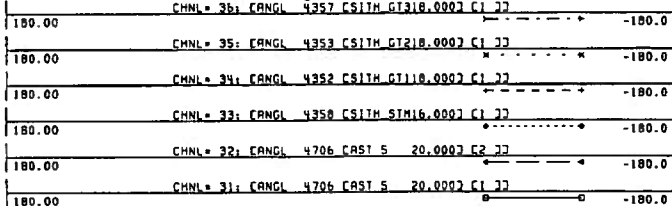
CASE DW1: 2001/02 WINTER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DWIRUND4A.OUT

CHNL = 36: CANGL 4357 CSITH G1318.0000 C1 JJ

FRI, MAR 31 2000 13:19
RUN D4A PLOT 6

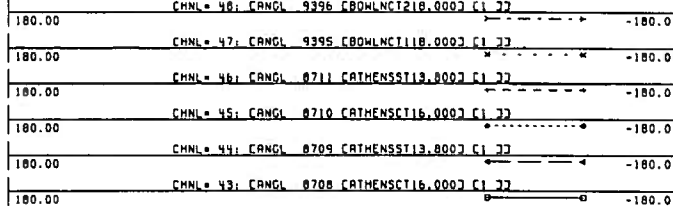
CASE DW1: 2001/02 WINTER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DWIRUND4A.OUT

CHNL = 46: CANGL 4395 C80WLNCT118.0000 C1 JJ

FRI, MAR 31 2000 13:19
RUN D4A PLOT 7

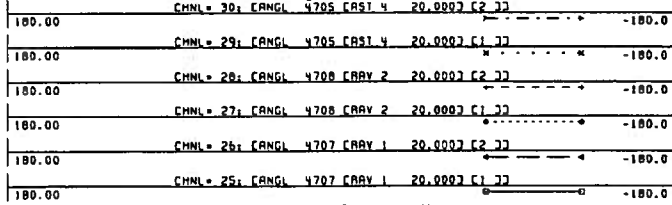
CASE DW1: 2001/02 WINTER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DWIRUND4A.OUT

CHNL = 30: CANGL 4705 CASI 4 20.0000 C2 JJ

FRI, MAR 31 2000 13:19
RUN D4A PLOT 5

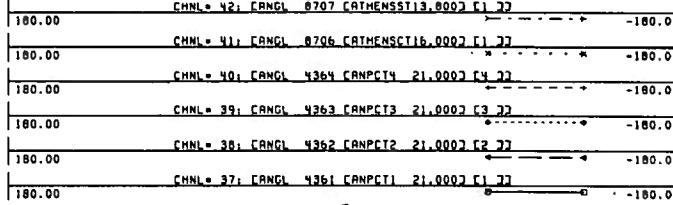
CASE DW1: 2001/02 WINTER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DWIRUND4A.OUT

CHNL = 42: CANGL 8707 CATHENSST13.0000 C1 JJ

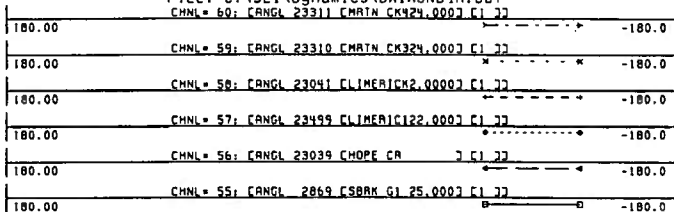
FRI, MAR 31 2000 13:19
RUN D4A PLOT 8



CASE DW1: 2001/02 WINTER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DWIRUND4A.OUT
CHNL = 60; CANGL 23311 CMATN CM324.0000 C1 JJ



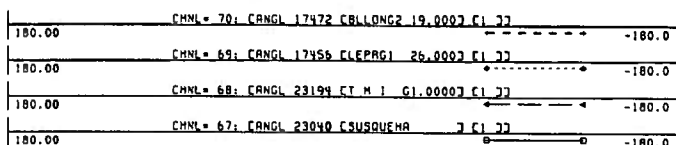
FRI, MAR 31 2000 13:19
RUN D4A PLOT 10



CASE DW1: 2001/02 WINTER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DWIRUND4A.OUT



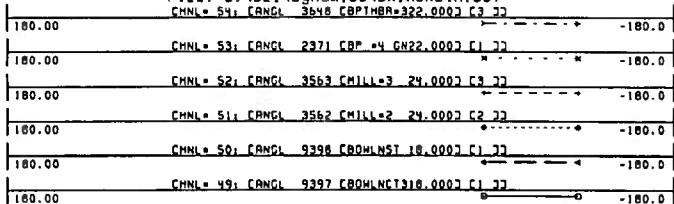
FRI, MAR 31 2000 13:19
RUN D4A PLOT 12



CASE DW1: 2001/02 WINTER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DWIRUND4A.OUT
CHNL = 54; CANGL 3648 CBPTMBA322.0000 C3 JJ



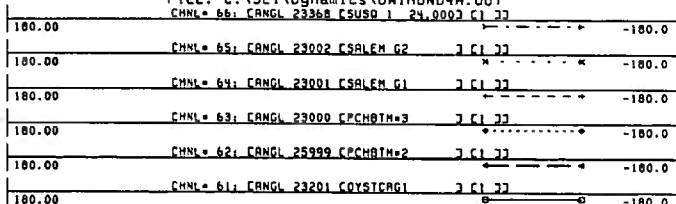
FRI, MAR 31 2000 13:19
RUN D4A PLOT 9



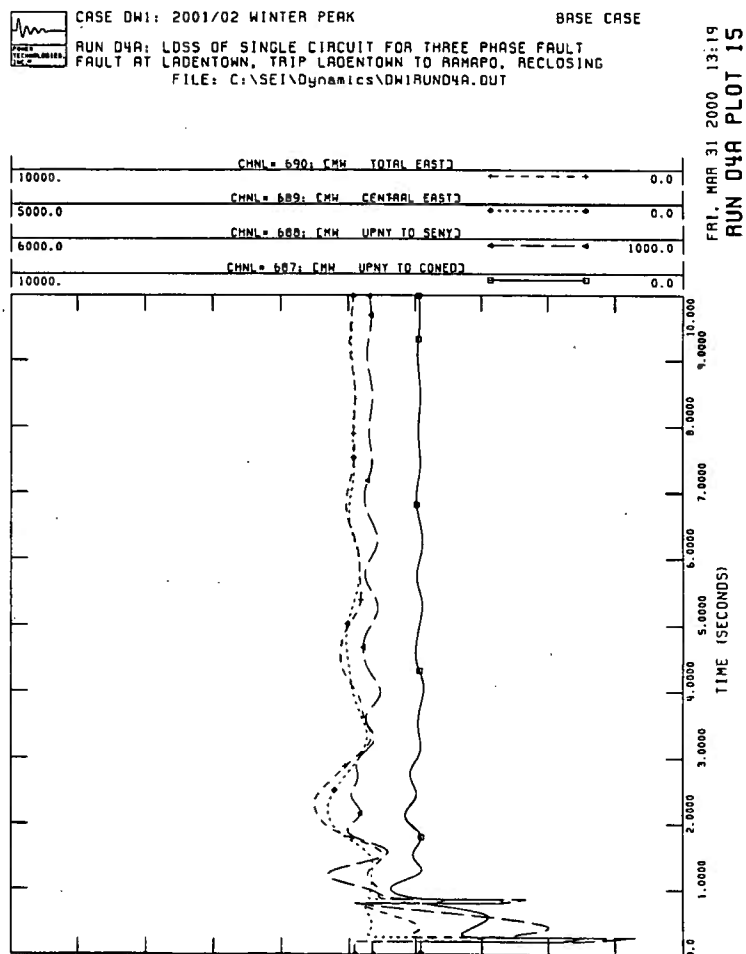
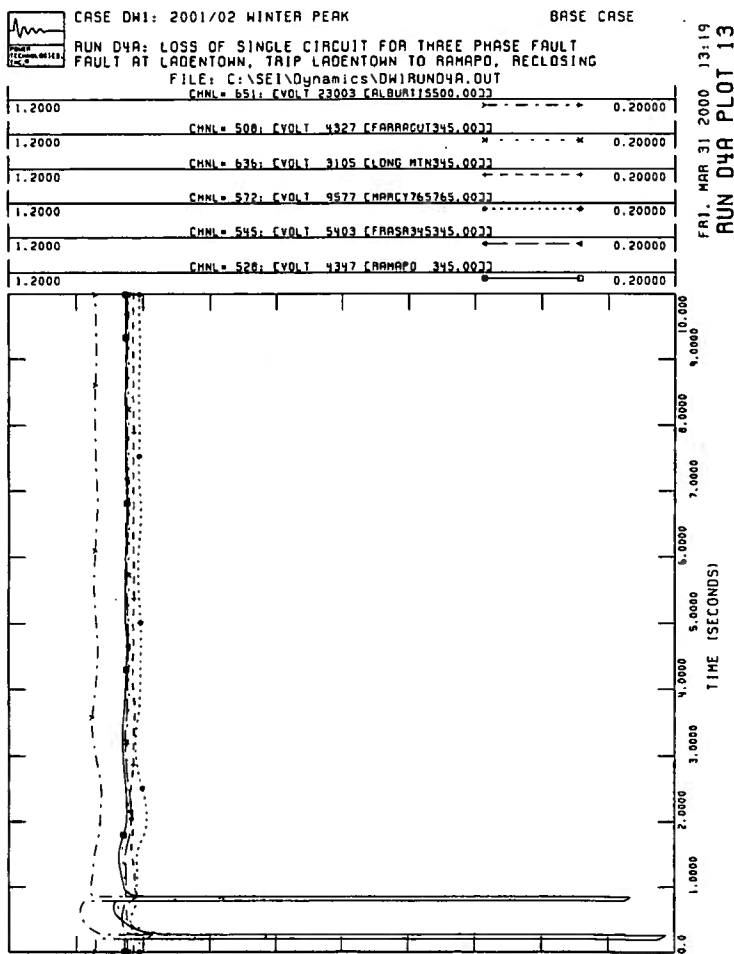
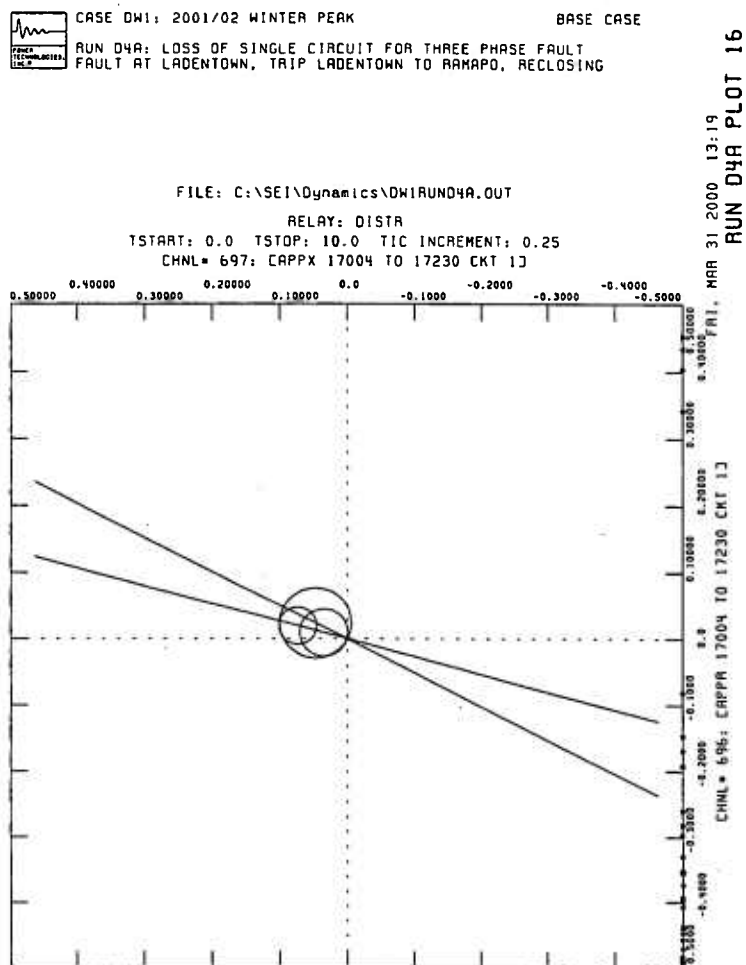
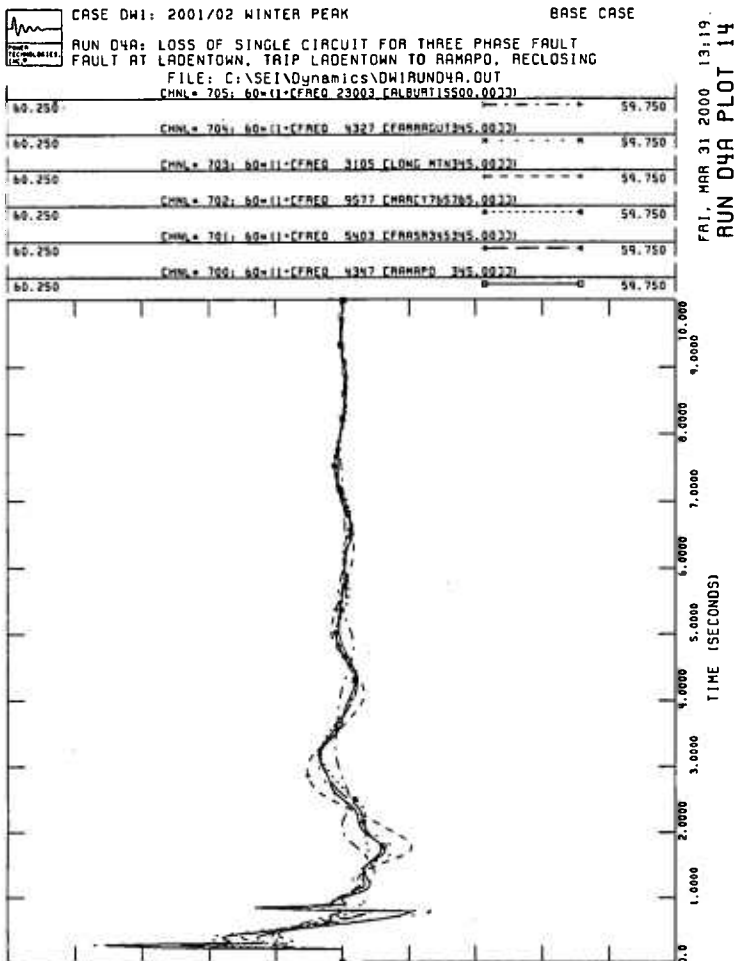
CASE DW1: 2001/02 WINTER PEAK

BASE CASE

RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DWIRUND4A.OUT
CHNL = 66; CANGL 23368 CSUS80 24.0000 C1 JJ

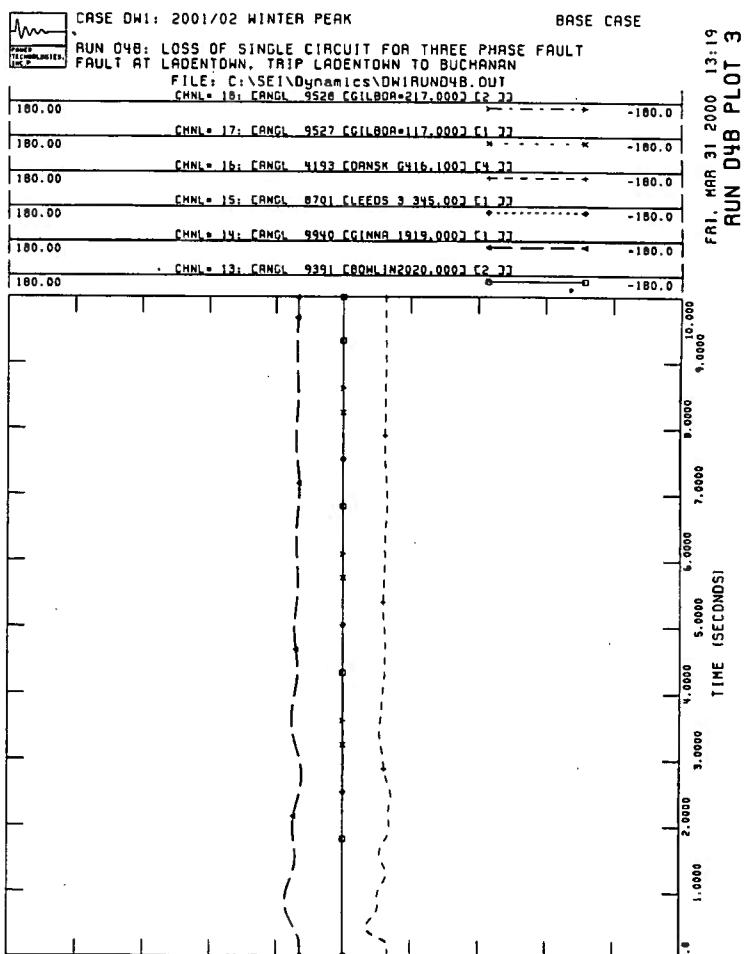
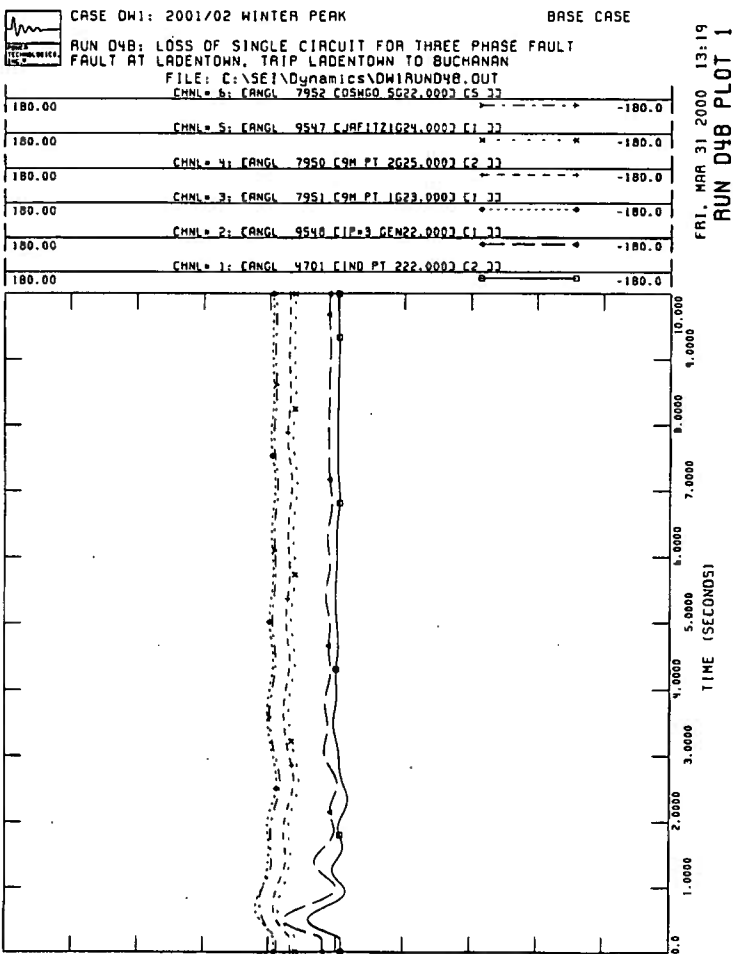
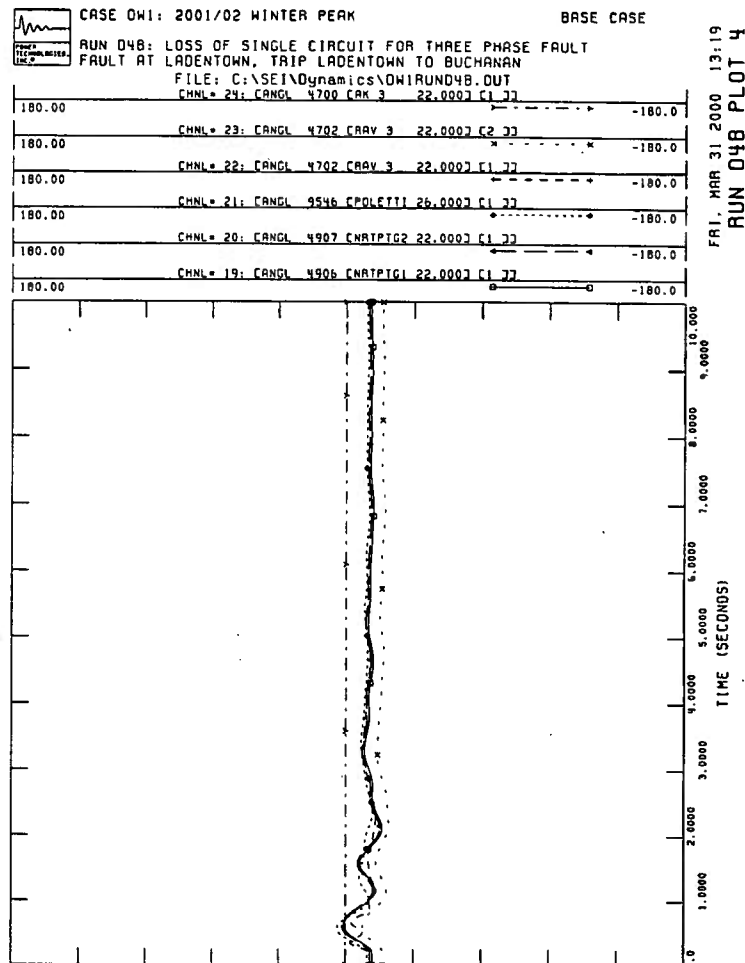
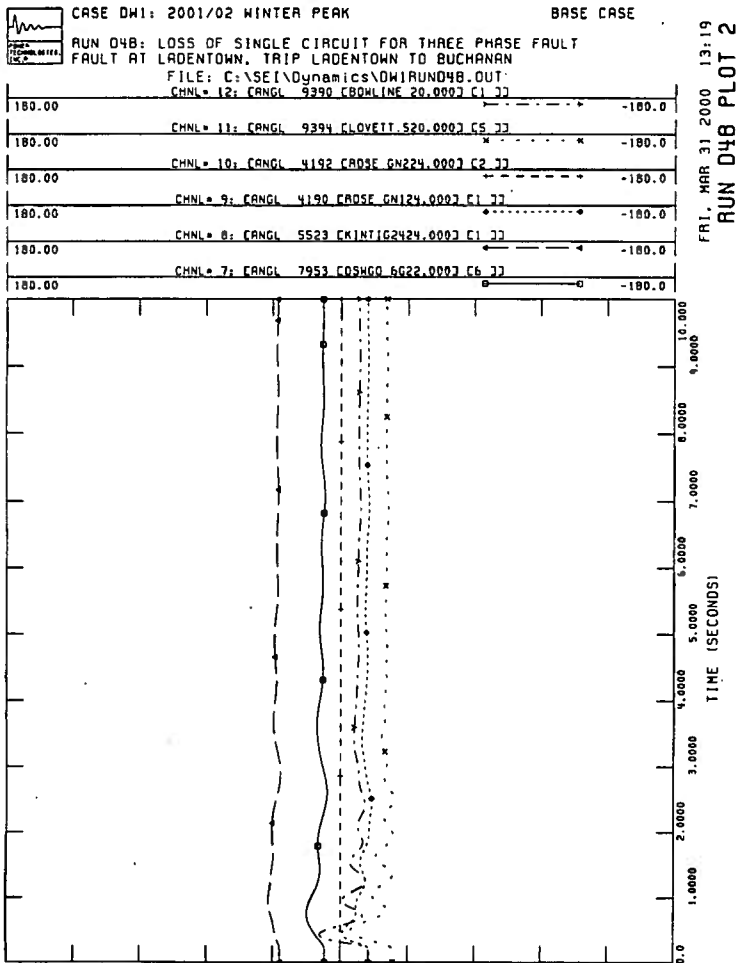


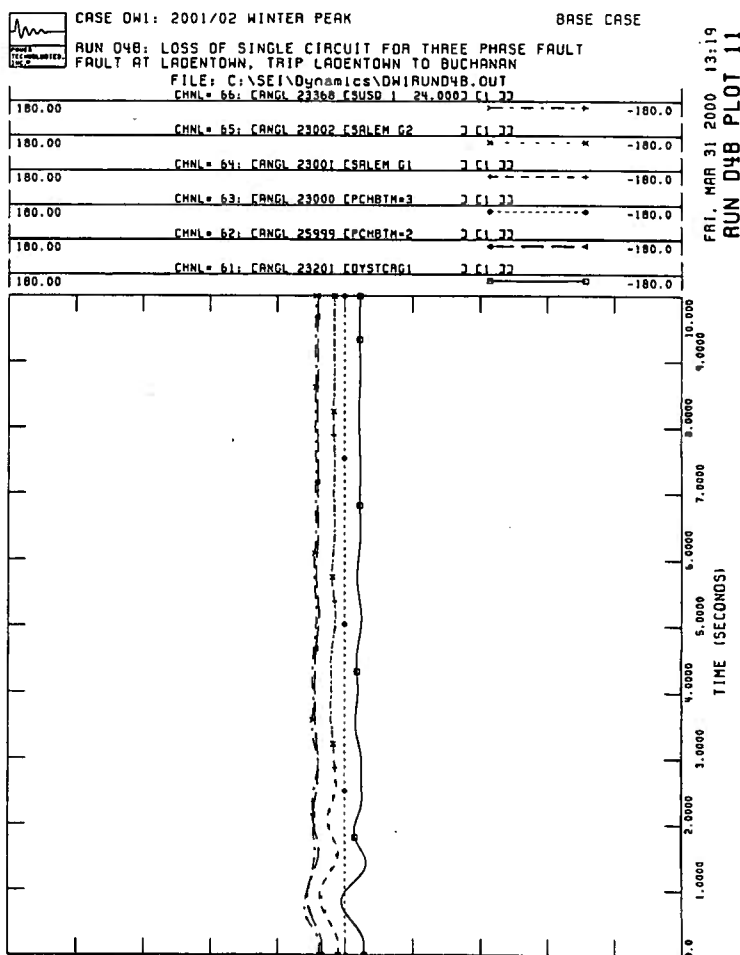
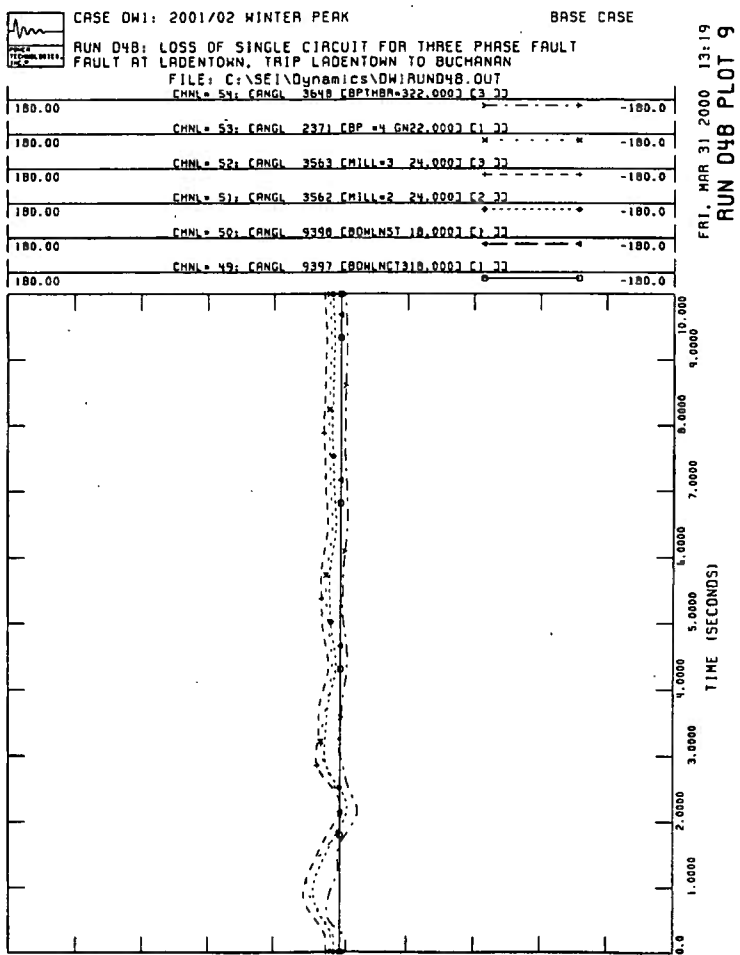
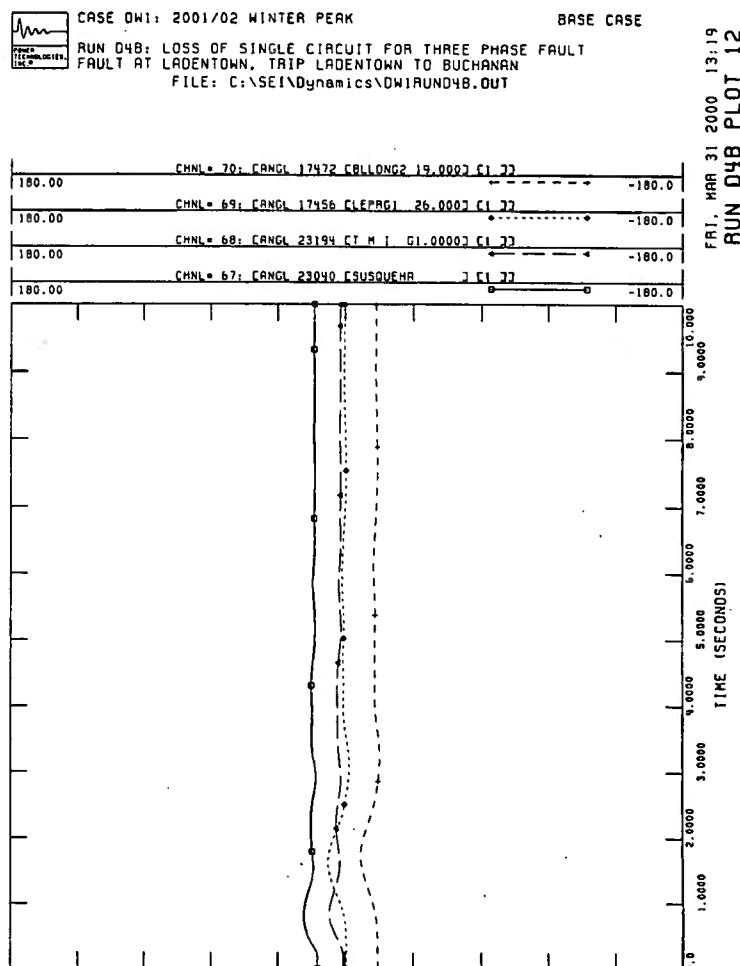
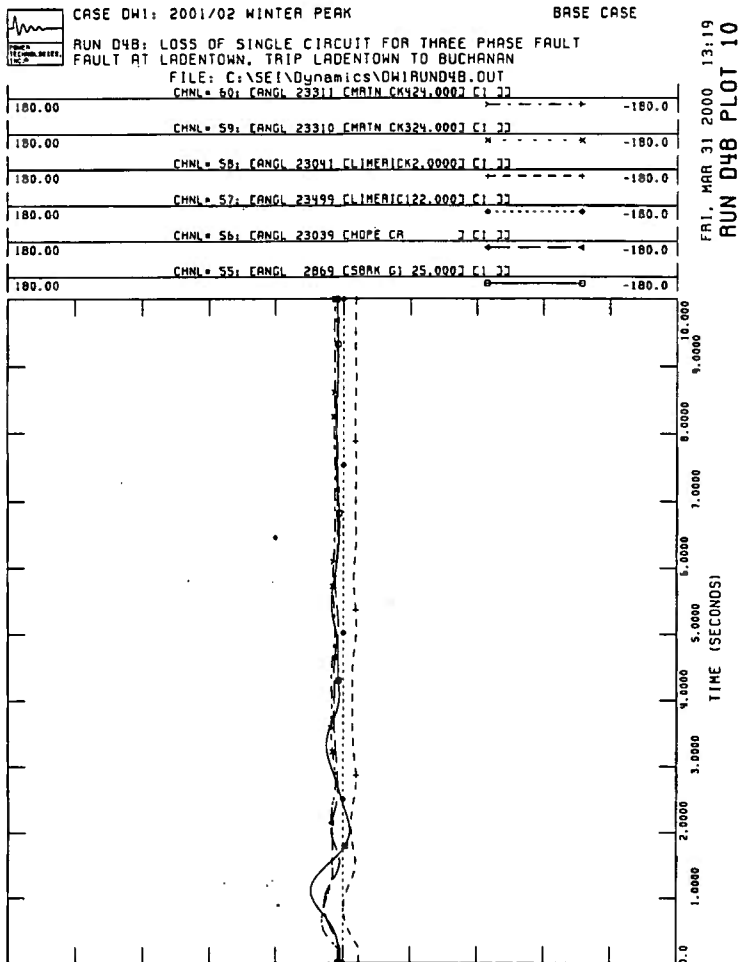
FRI, MAR 31 2000 13:19
RUN D4A PLOT 11



CONTINGENCY D4B

RECOVER FROM D1.SNP AND DW1.CNV
START OUTPUT DW1RUND4B.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



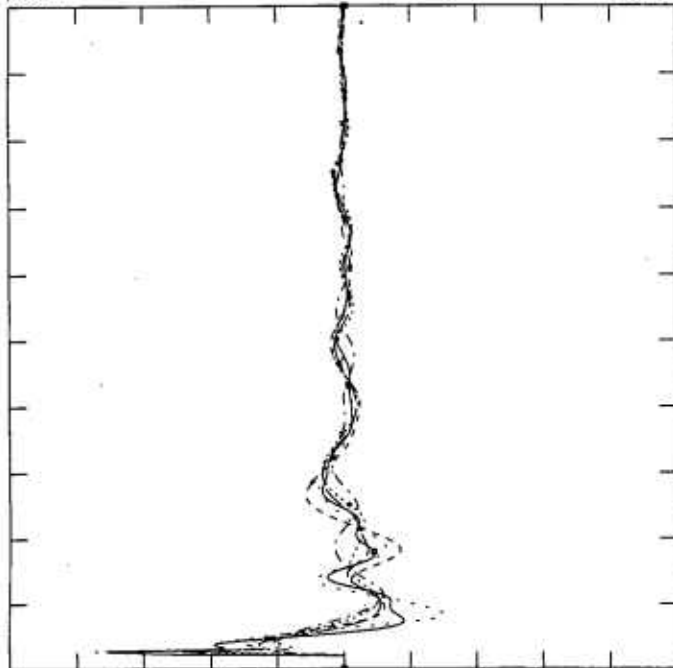


CASE DW1: 2001/02 WINTER PEAK BASE CASE

RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamics\DWIRUND48.OUT

CHNL = 705: 60-HI-CFREQ 23003 (ALBUNT15500.0033)
CHNL = 704: 60-HI-CFREQ 4327 (FARMAGUT345.0033)
CHNL = 703: 60-HI-CFREQ 3105 (LONG MTN345.0033)
CHNL = 702: 60-HI-CFREQ 9577 (MARCY765765.0033)
CHNL = 701: 60-HI-CFREQ 5403 (FARM345345.0033)
CHNL = 700: 60-HI-CFREQ 4347 (CARMPO 345.0033)



FRI, MAR 31 2000 13:19
RUN D48 PLOT 14

CASE DW1: 2001/02 WINTER PEAK BASE CASE

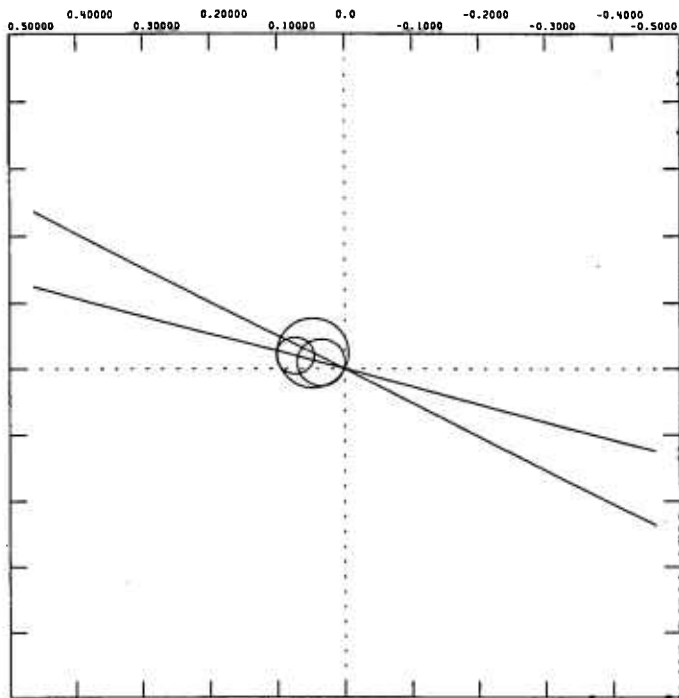
RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamics\DWIRUND48.OUT

RELAY: DISTR

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25

CHNL = 697: CAPPX 17004 TO 17230 CKT 13



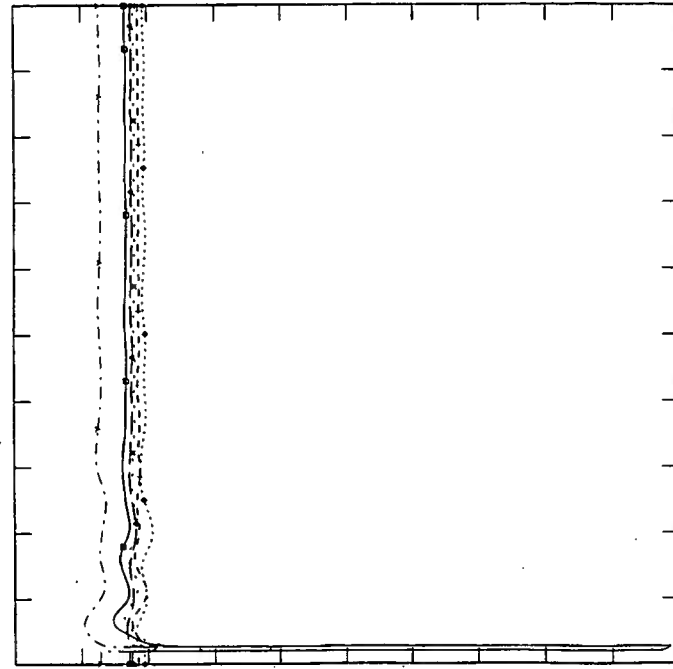
FRI, MAR 31 2000 13:19
RUN D48 PLOT 15

CASE DW1: 2001/02 WINTER PEAK BASE CASE

RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamics\DWIRUND48.OUT

CHNL = 651: CVOLT 23003 (ALBUNT15500.0033)
CHNL = 598: CVOLT 4327 (FARMAGUT345.0033)
CHNL = 636: CVOLT 3105 (LONG MTN345.0033)
CHNL = 572: CVOLT 9577 (MARCY765765.0033)
CHNL = 545: CVOLT 5403 (FARM345345.0033)
CHNL = 528: CVOLT 4347 (CARMPO 345.0033)



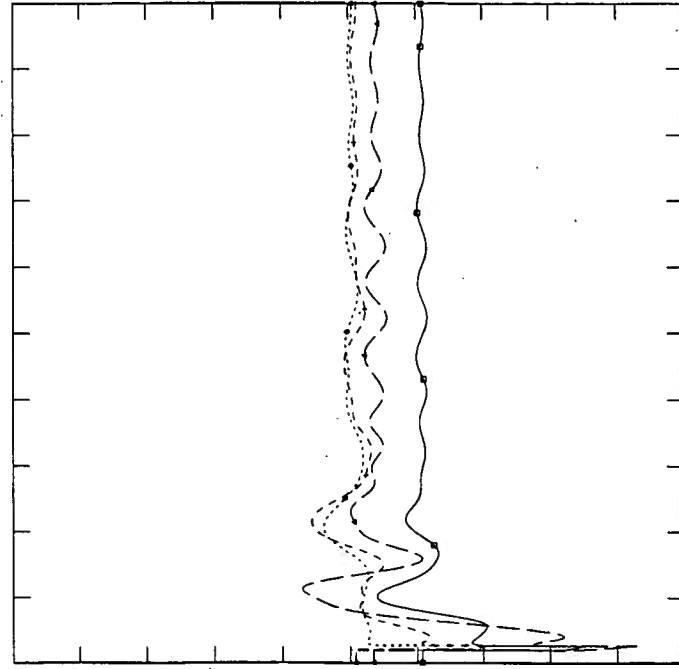
FRI, MAR 31 2000 13:19
RUN D48 PLOT 13

CASE DW1: 2001/02 WINTER PEAK BASE CASE

RUN D48: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamics\DWIRUND48.OUT

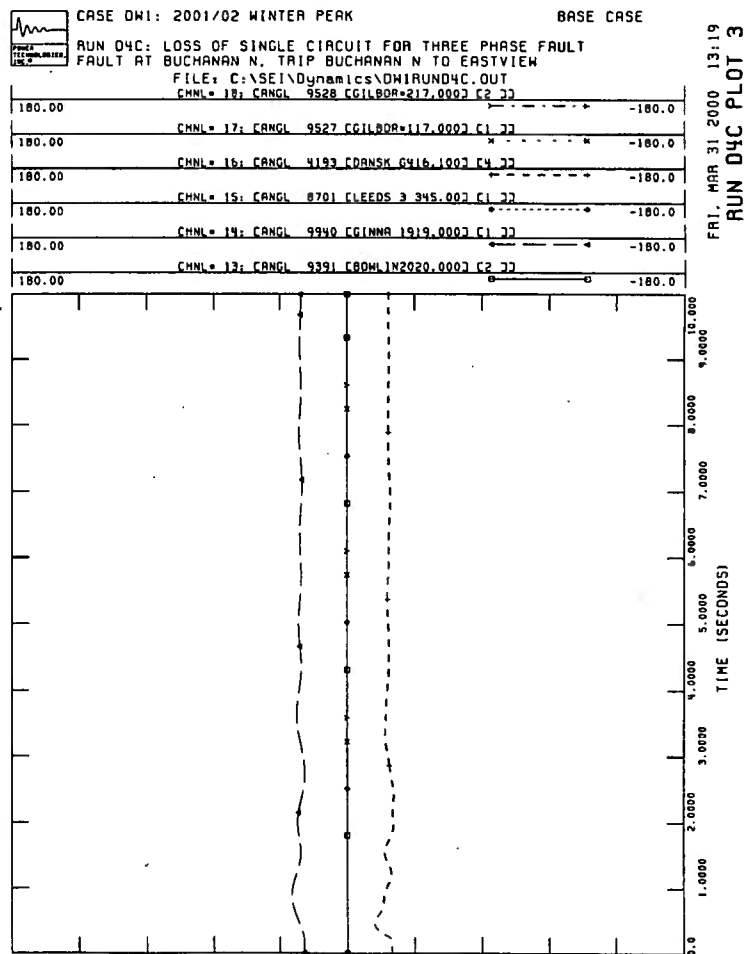
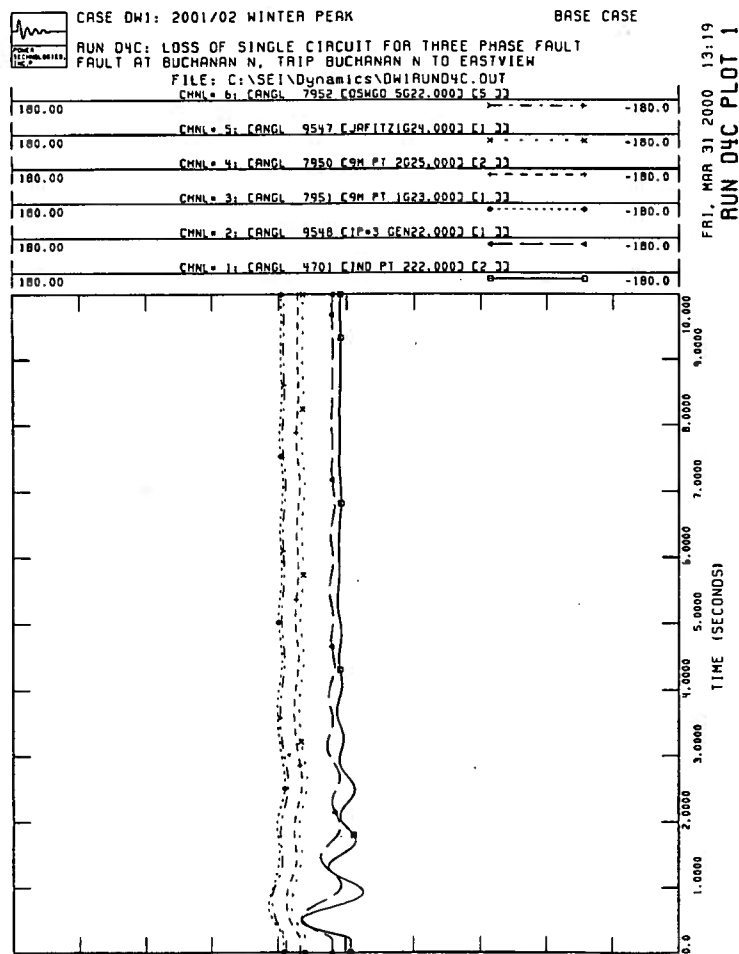
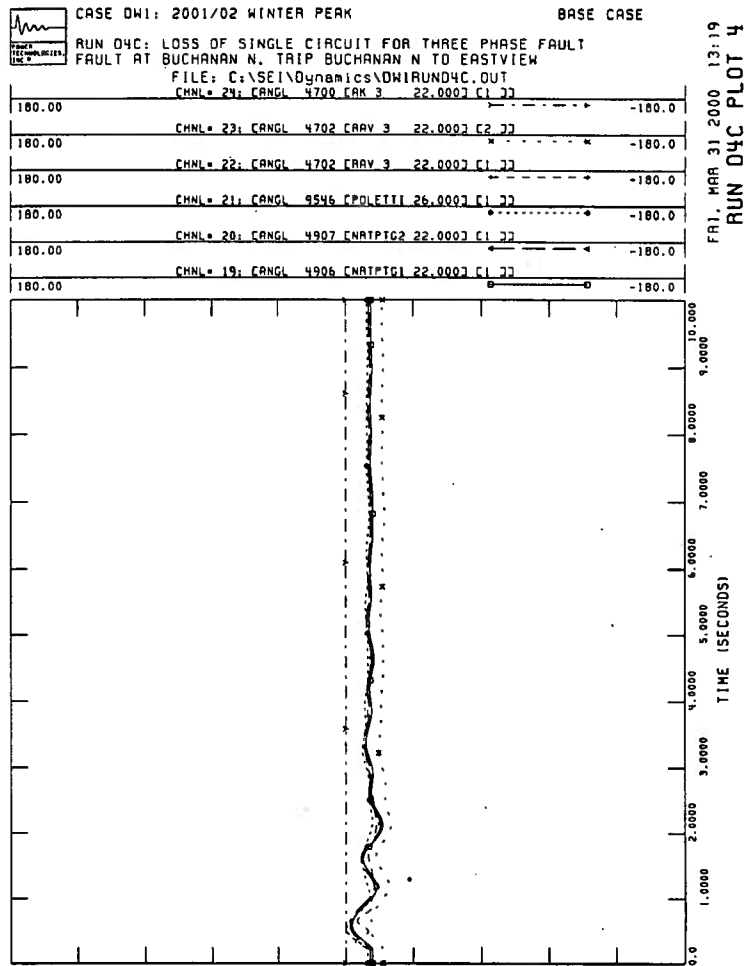
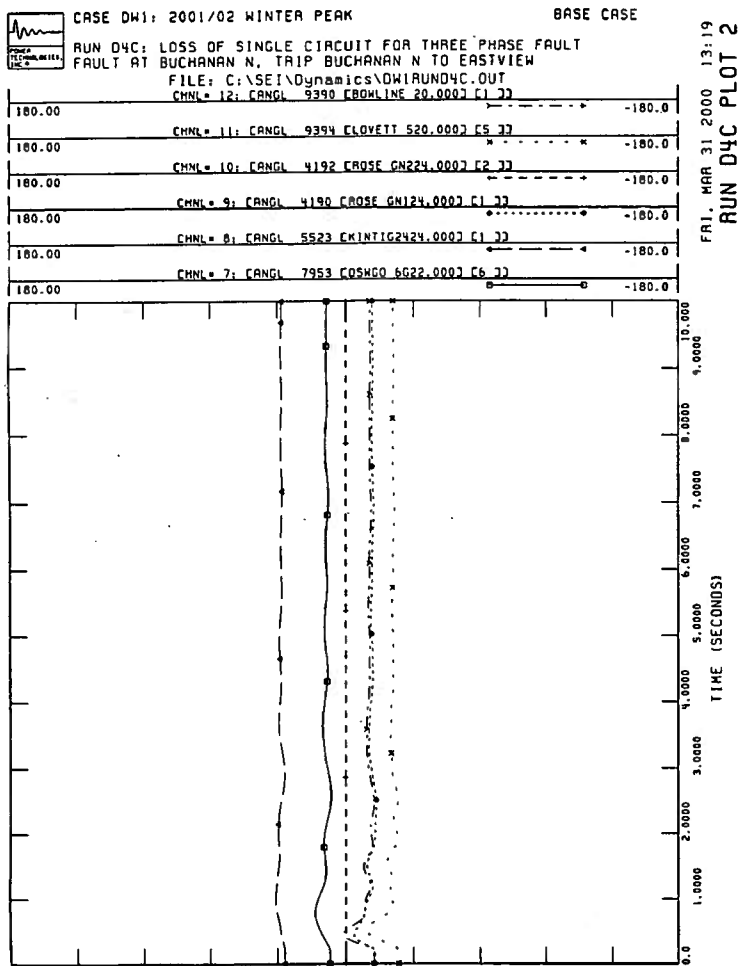
CHNL = 690: CMW TOTAL EAST
CHNL = 689: CMW CENTRAL EAST
CHNL = 688: CMW UPNY TO SENY
CHNL = 687: CMW UPNY TO CONED

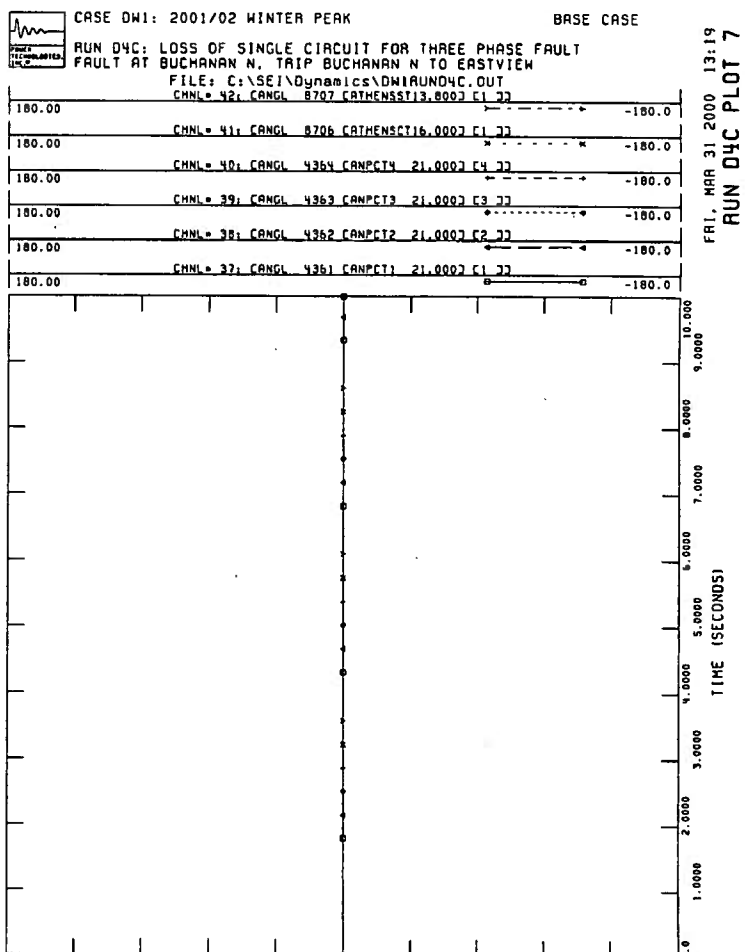
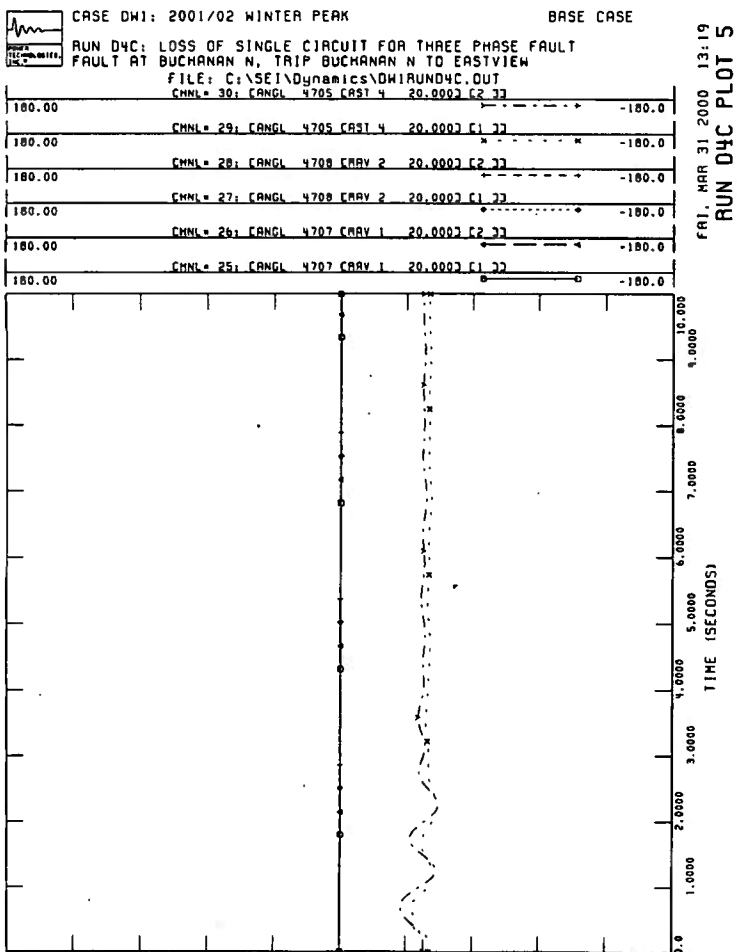
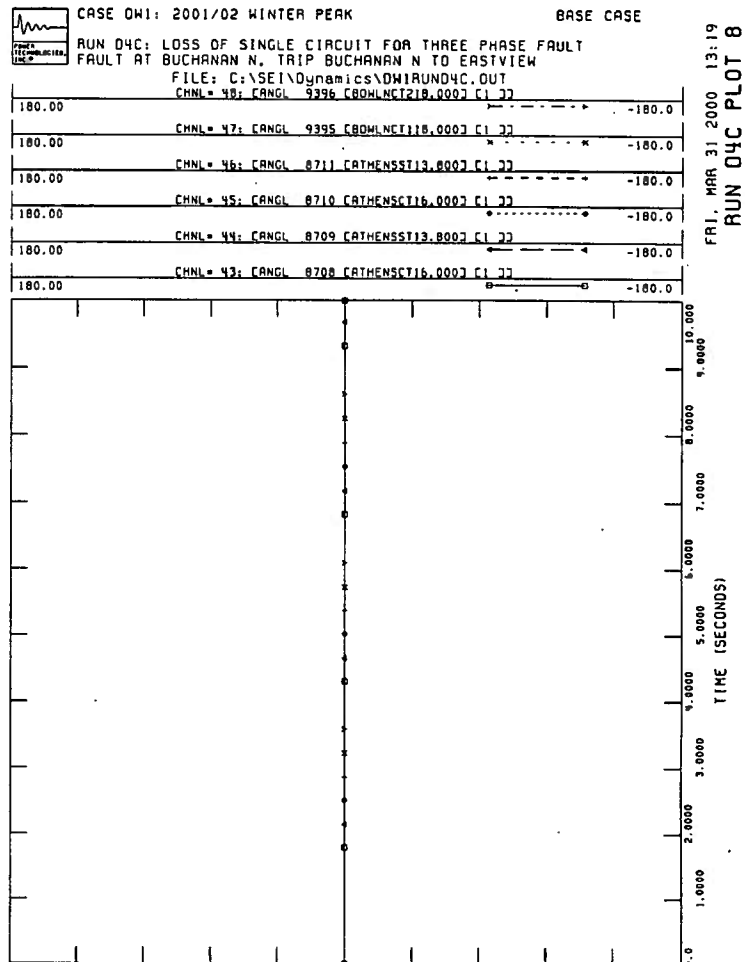
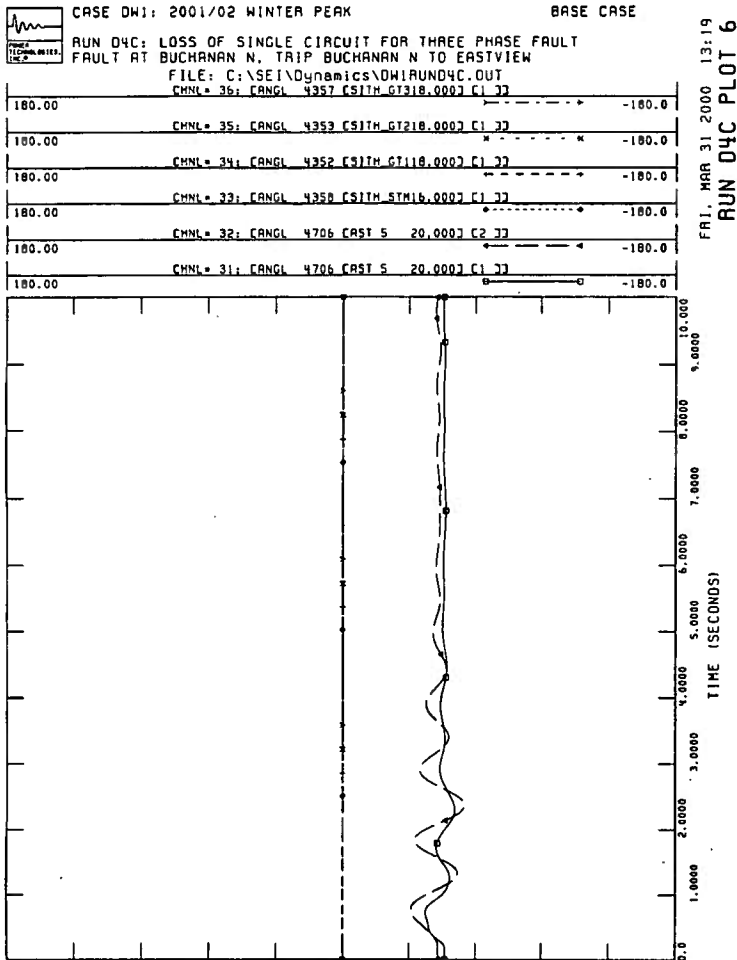


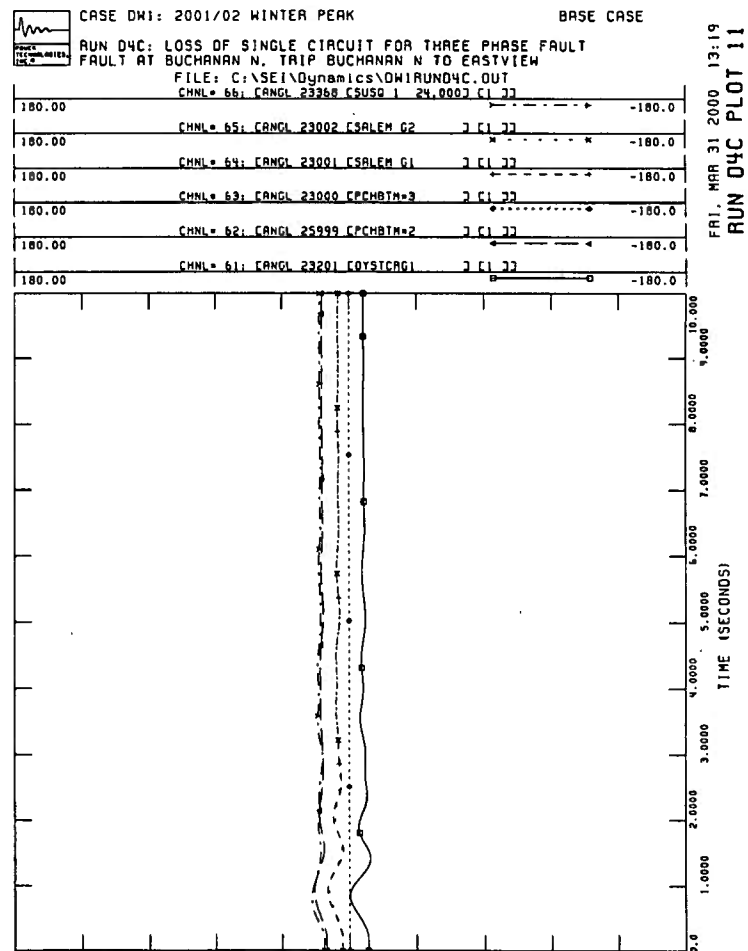
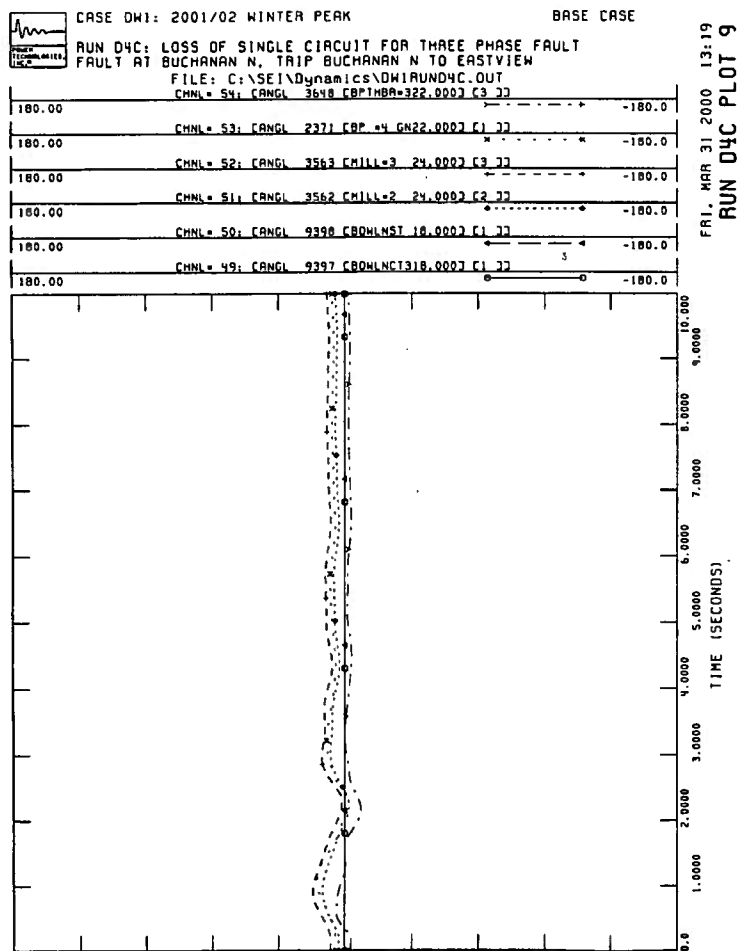
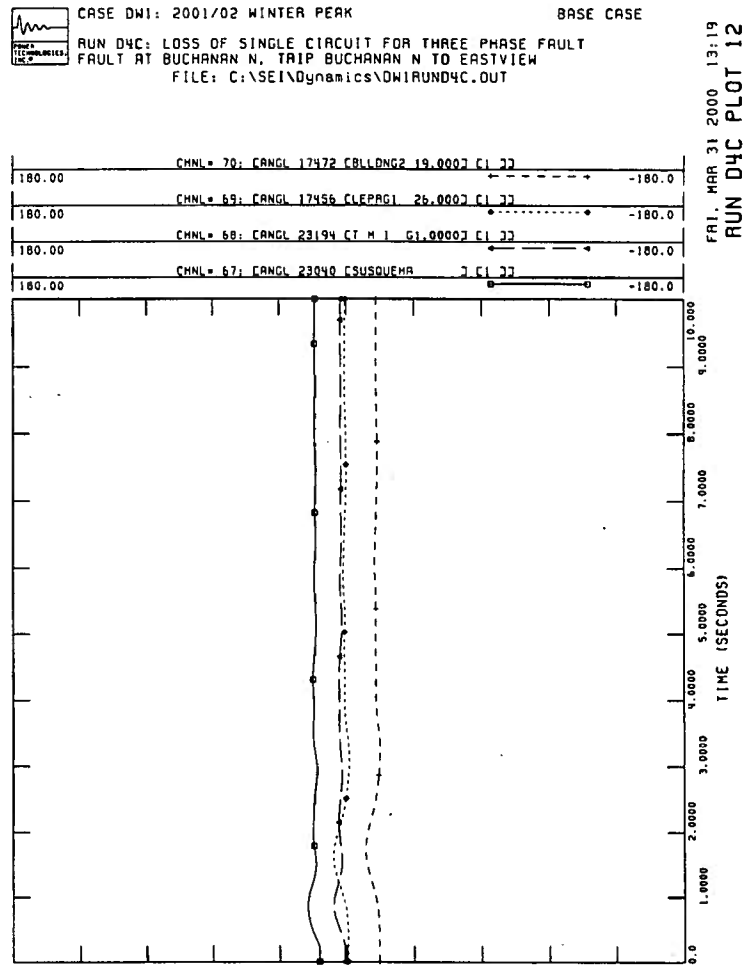
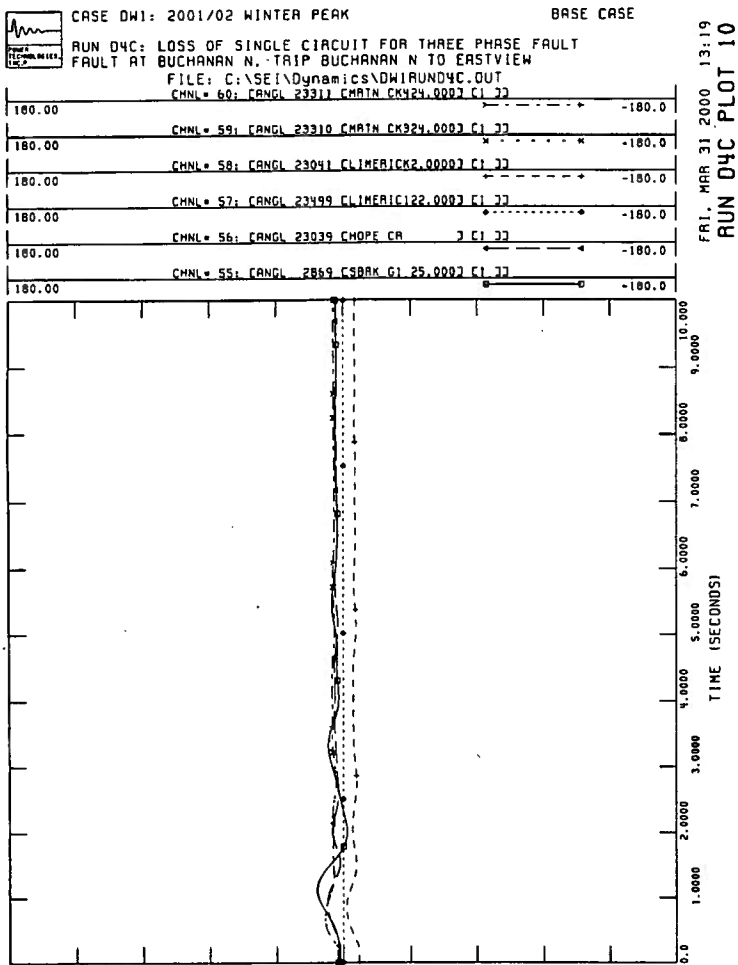
FRI, MAR 31 2000 13:19
RUN D48 PLOT 16

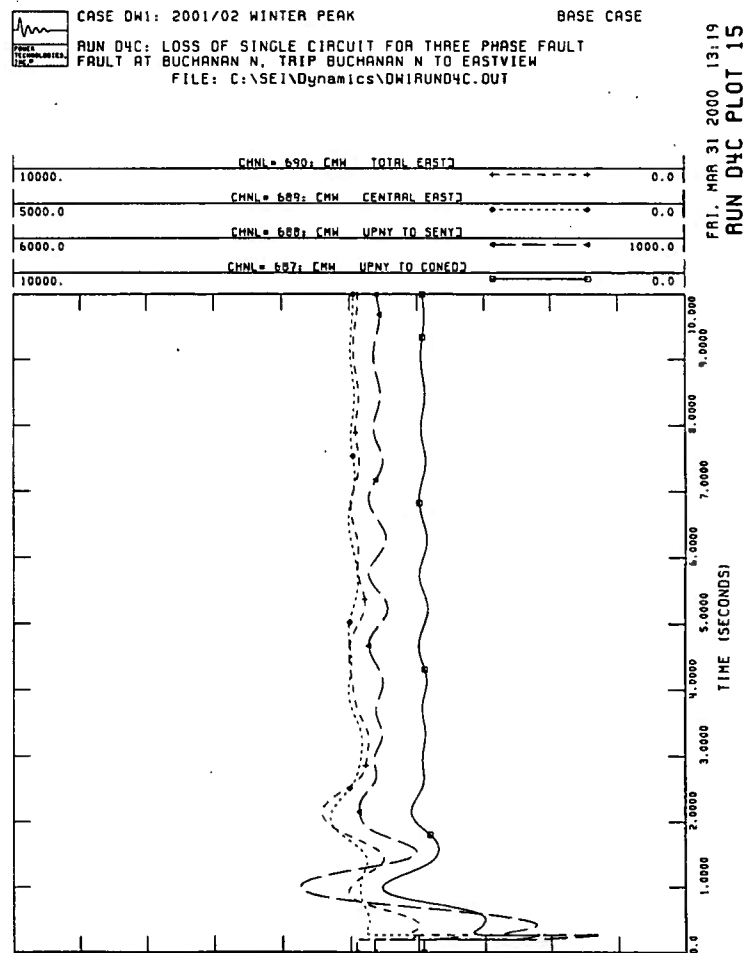
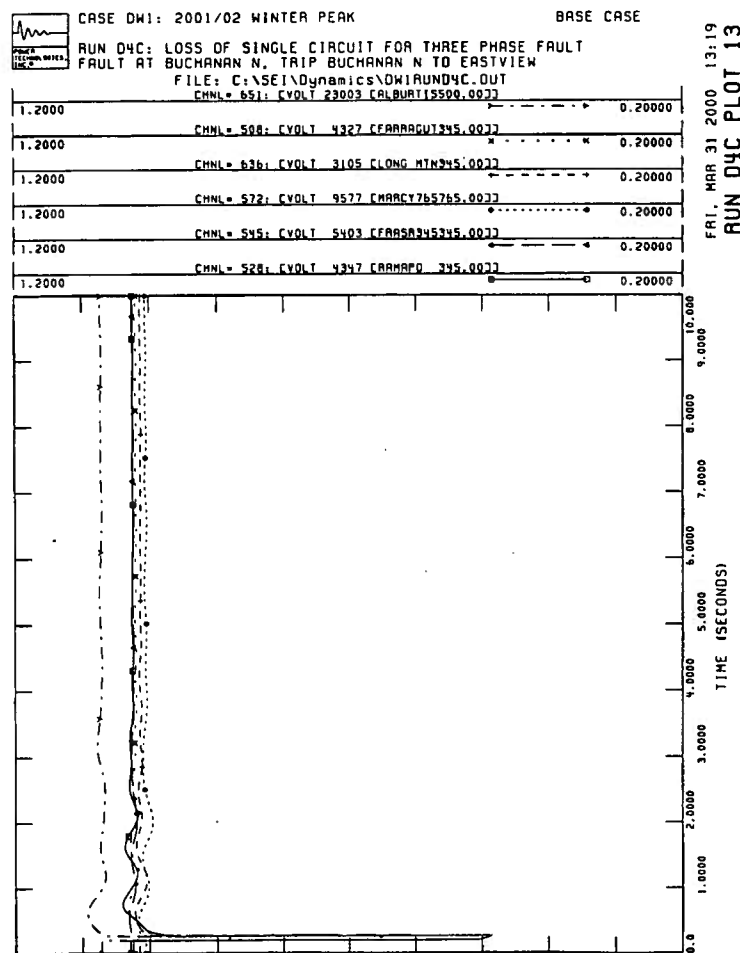
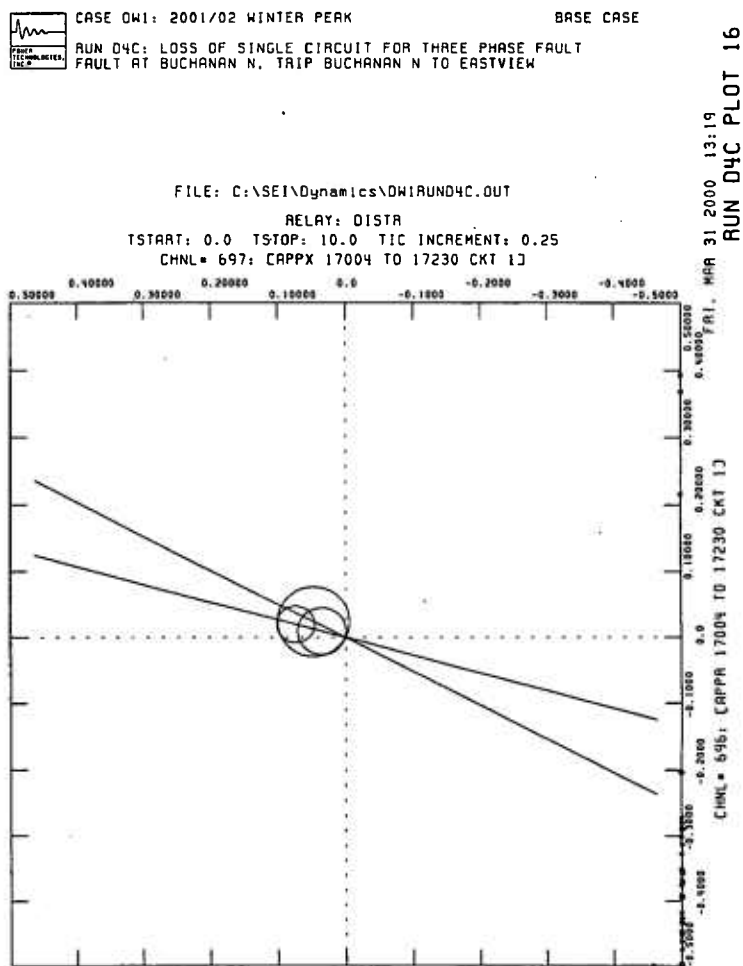
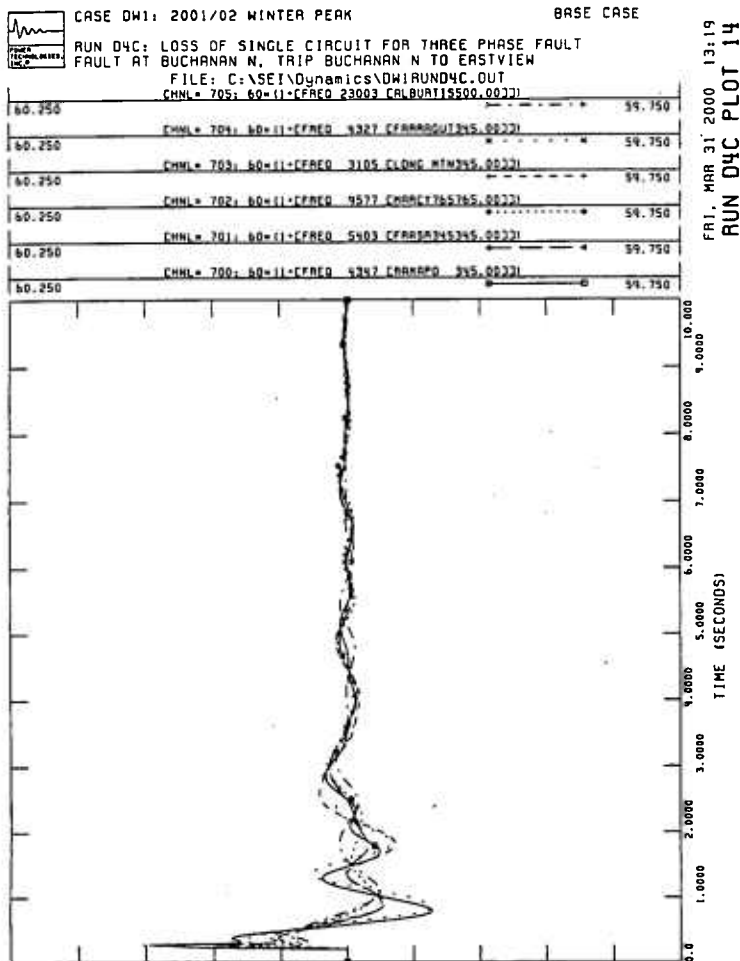
CONTINGENCY D4C

RECOVER FROM D1.SNP AND DW1.CNV
START OUTPUT DW1RUND4C.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4312 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN N
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4312 TO BUS 4317 CKT 1 / TRIP BUCHANAN-EASTVIEW
TRIP BRANCH FROM BUS 4317 TO BUS 4428 CKT 1 / TRIP EASTVIEW XFMR
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



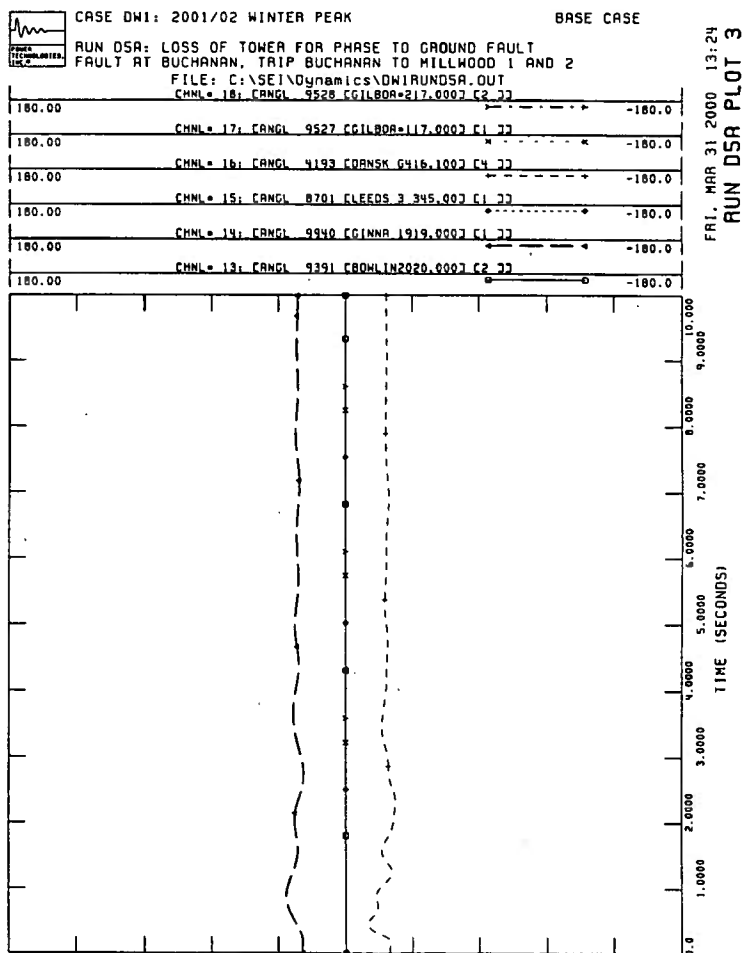
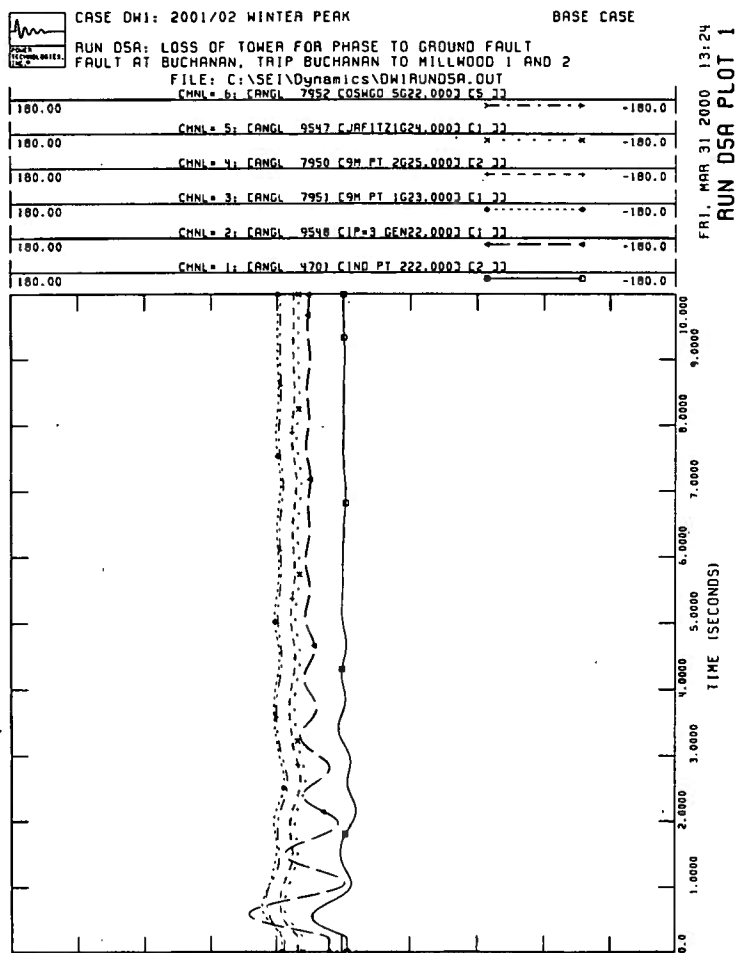
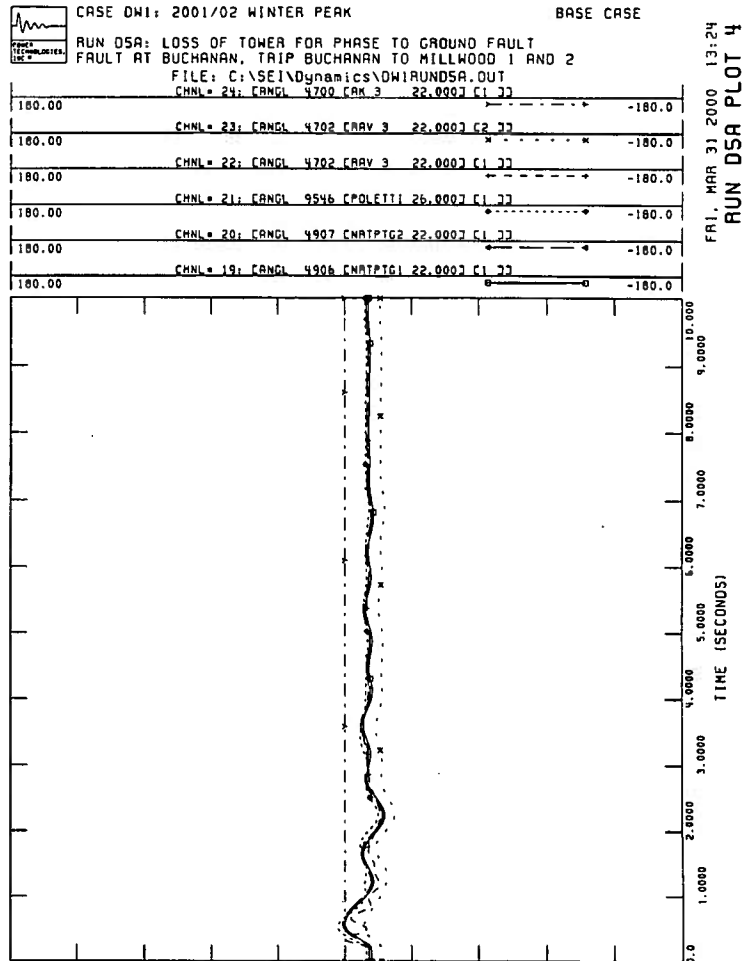
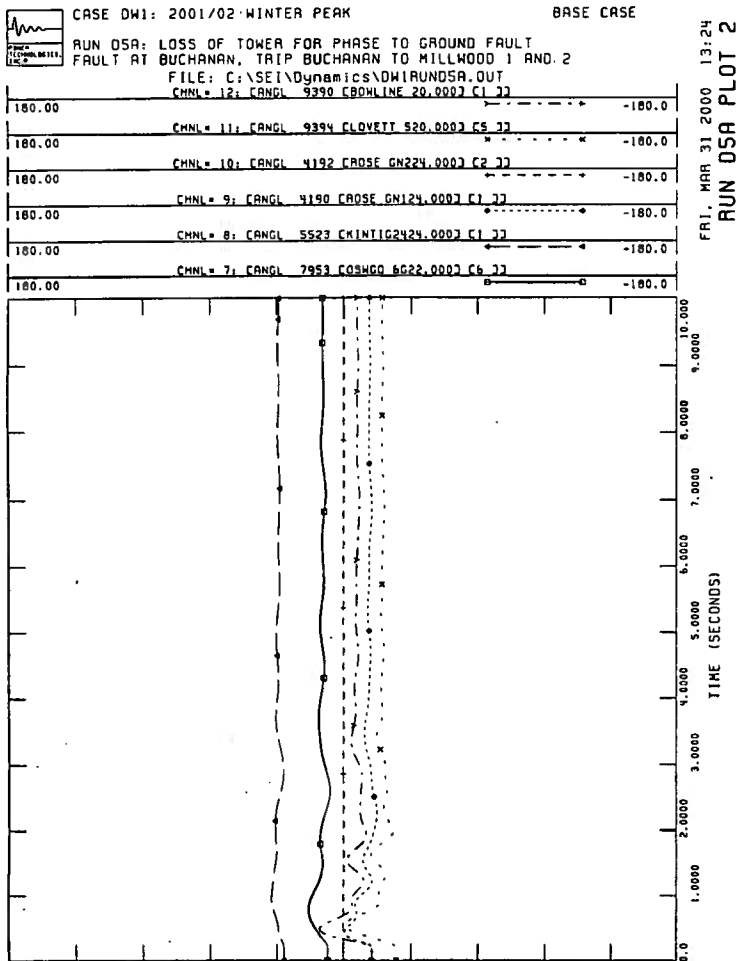


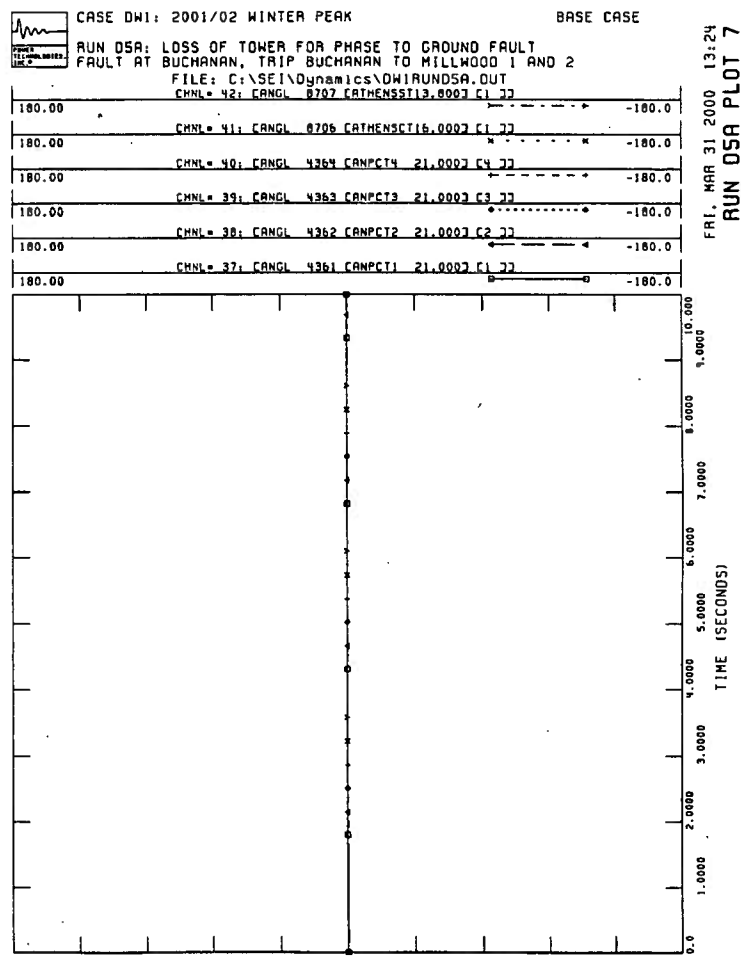
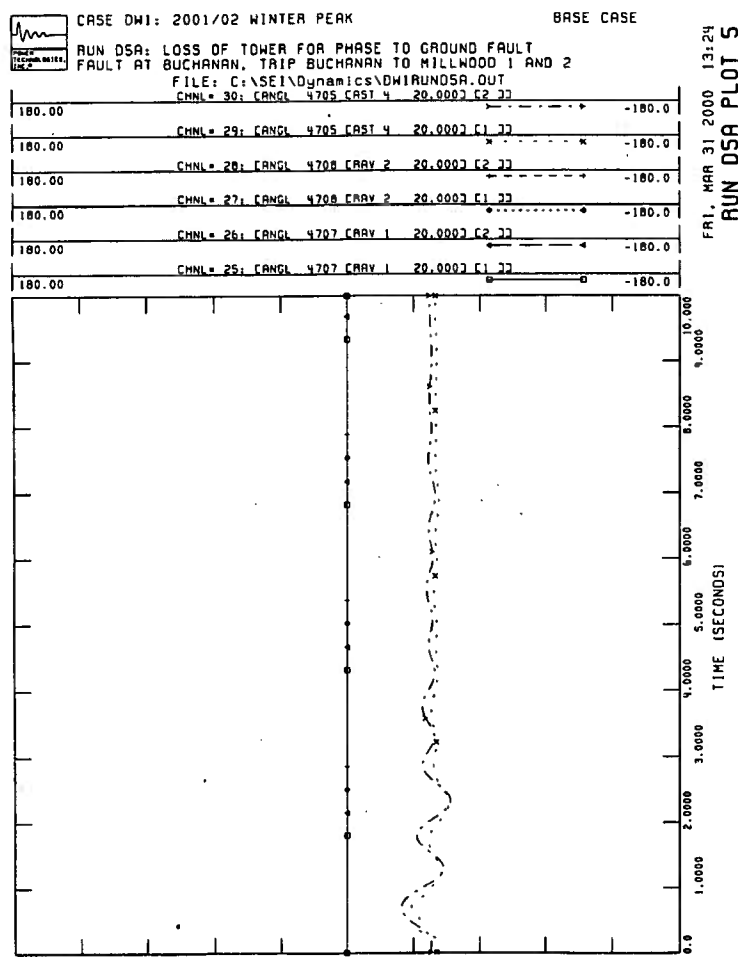
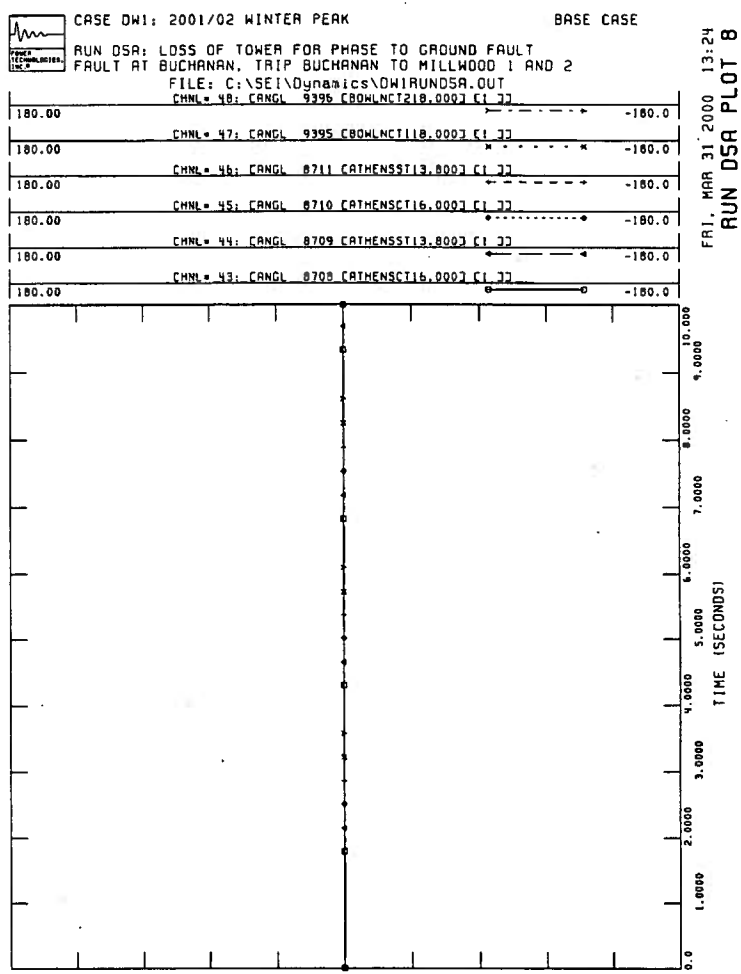
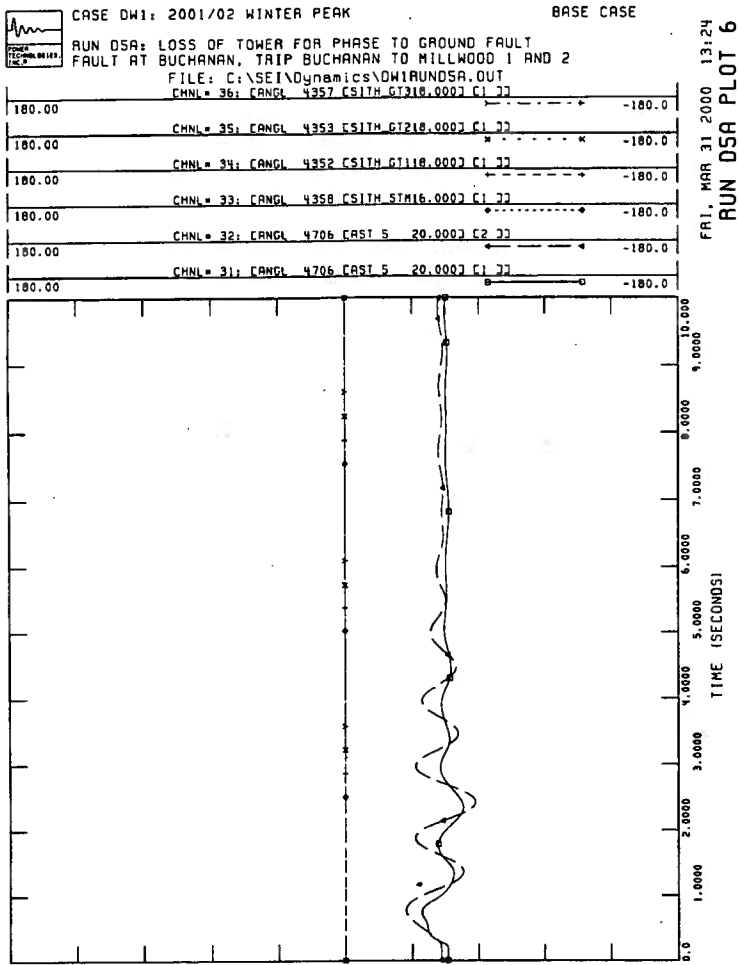




CONTINGENCY D5A

RECOVER FROM D1.SNP AND DW1.CNV
START OUTPUT DW1RUND5A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4313 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN S
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 1 / TRIP BUCHANAN S-MILLWOOD 1
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 2 / TRIP BUCHANAN S-MILLWOOD 2
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

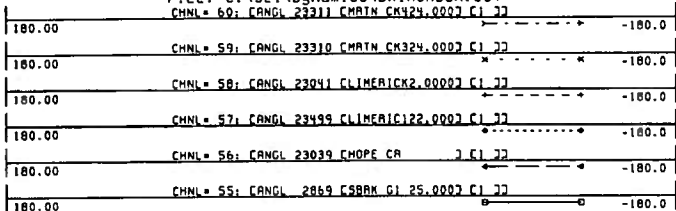






CASE DW1: 2001/02 WINTER PEAK

BASE CASE

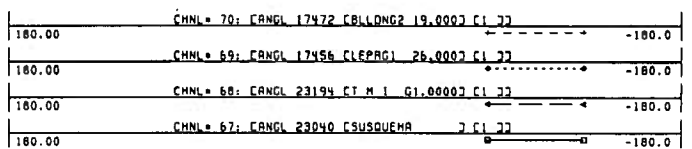
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2FILE: C:\SEI\Dynamic\DWIRUND5A.OUT
CHNL = 69: CANGL 23311 CHAIN CK424.0002 C1 JJFRI, MAR 31 2000 13:24
RUN DSA PLOT 10

CASE DW1: 2001/02 WINTER PEAK

BASE CASE

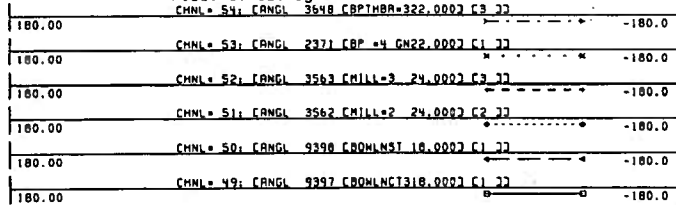
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2

FILE: C:\SEI\Dynamic\DWIRUND5A.OUT

FRI, MAR 31 2000 13:24
RUN DSA PLOT 12

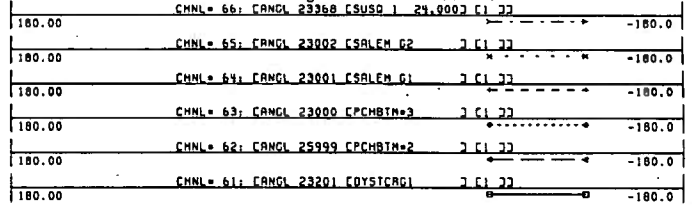
CASE DW1: 2001/02 WINTER PEAK

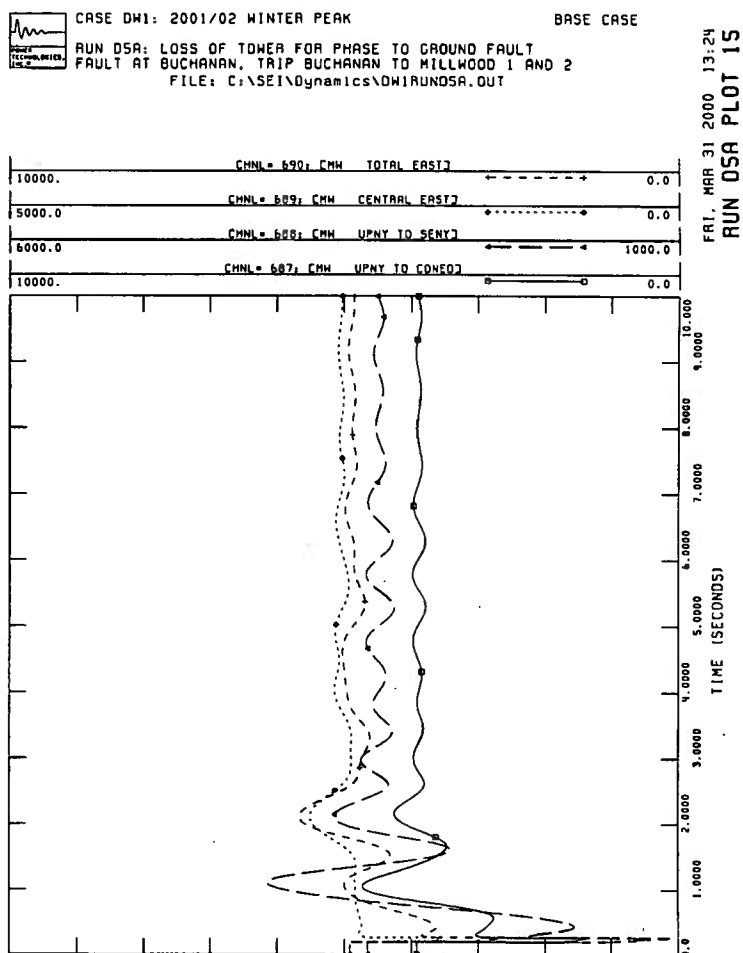
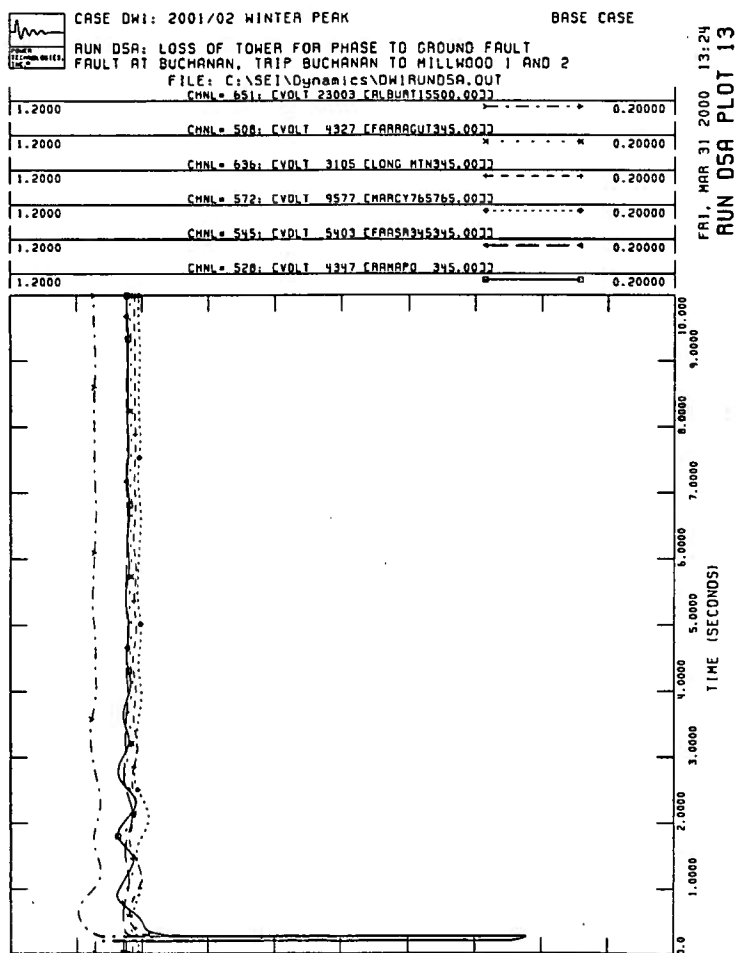
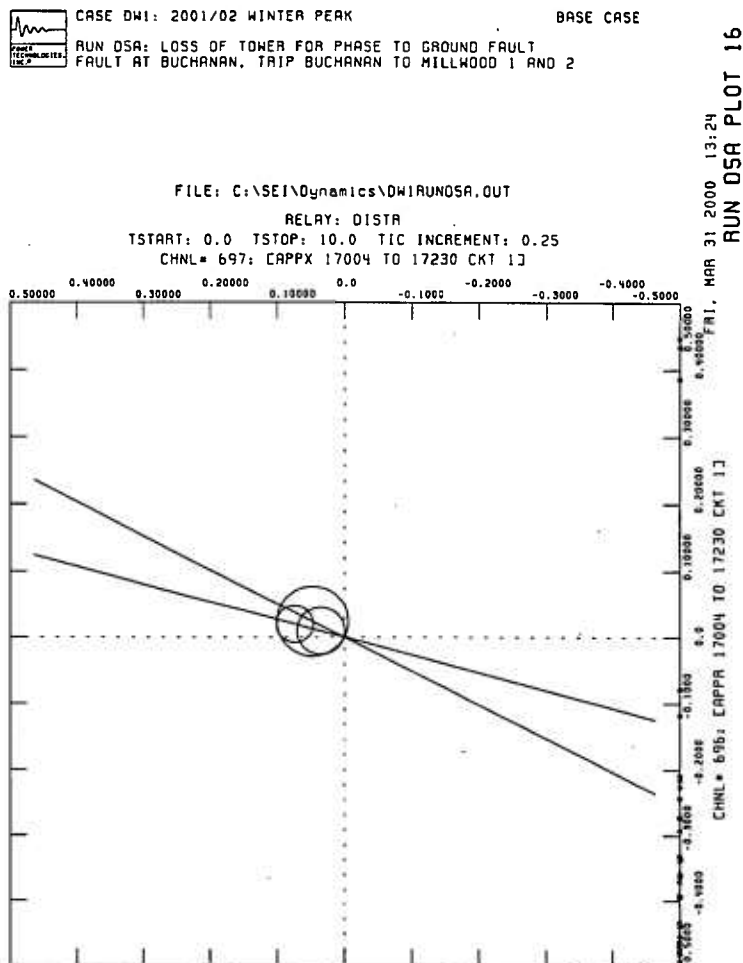
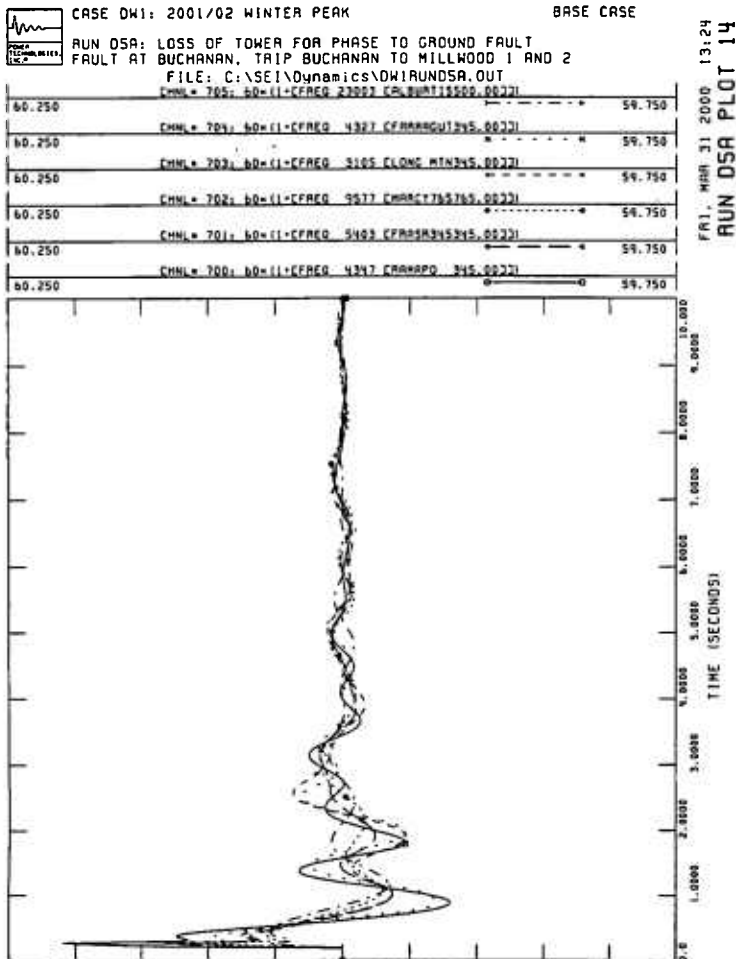
BASE CASE

RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2FILE: C:\SEI\Dynamic\DWIRUND5A.OUT
CHNL = 54: CANGL 3648 CAPTBAK322.0002 C3 JJFRI, MAR 31 2000 13:24
RUN DSA PLOT 9

CASE DW1: 2001/02 WINTER PEAK

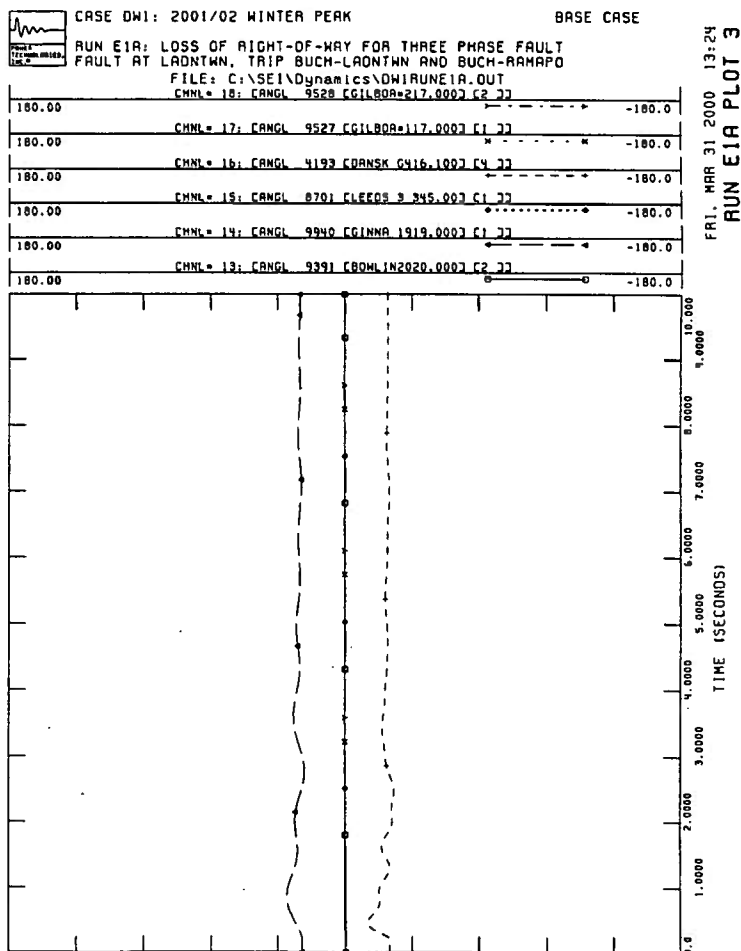
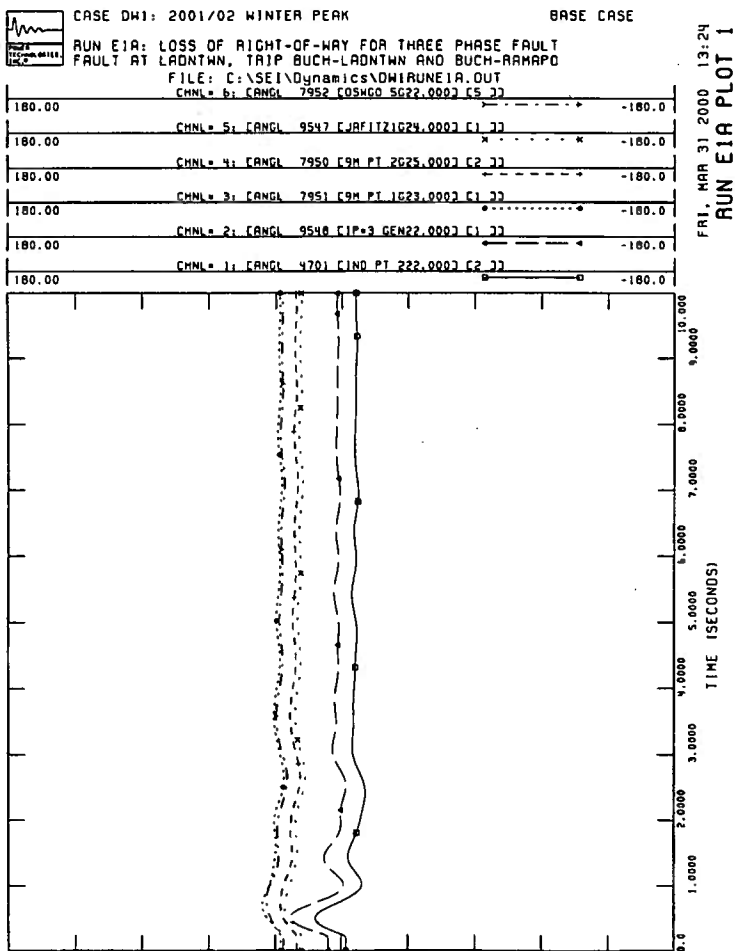
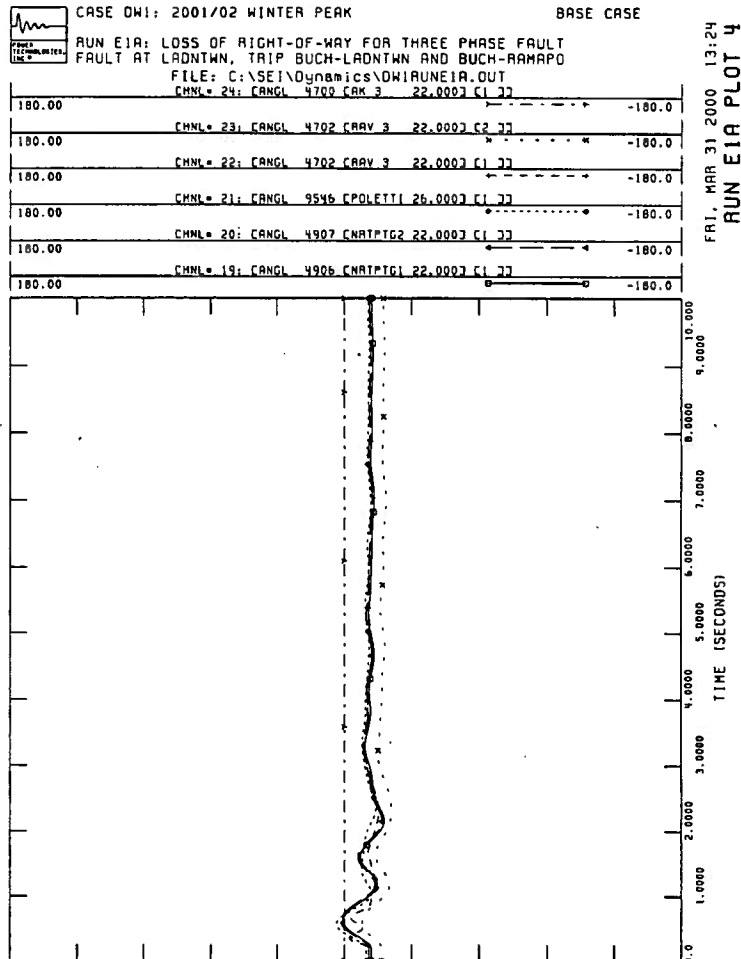
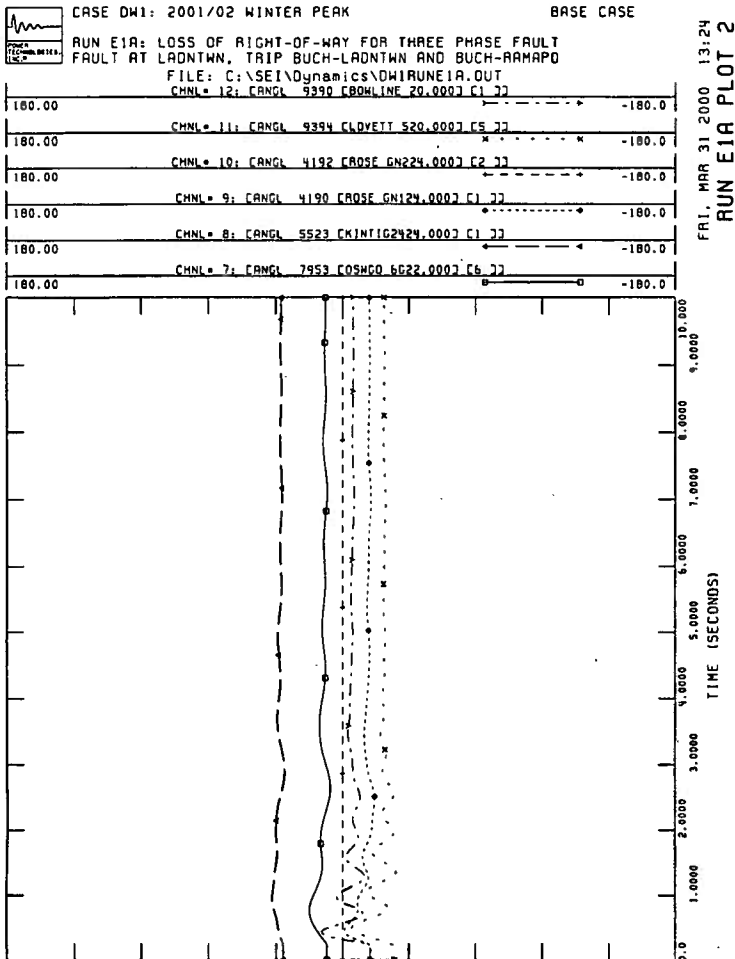
BASE CASE

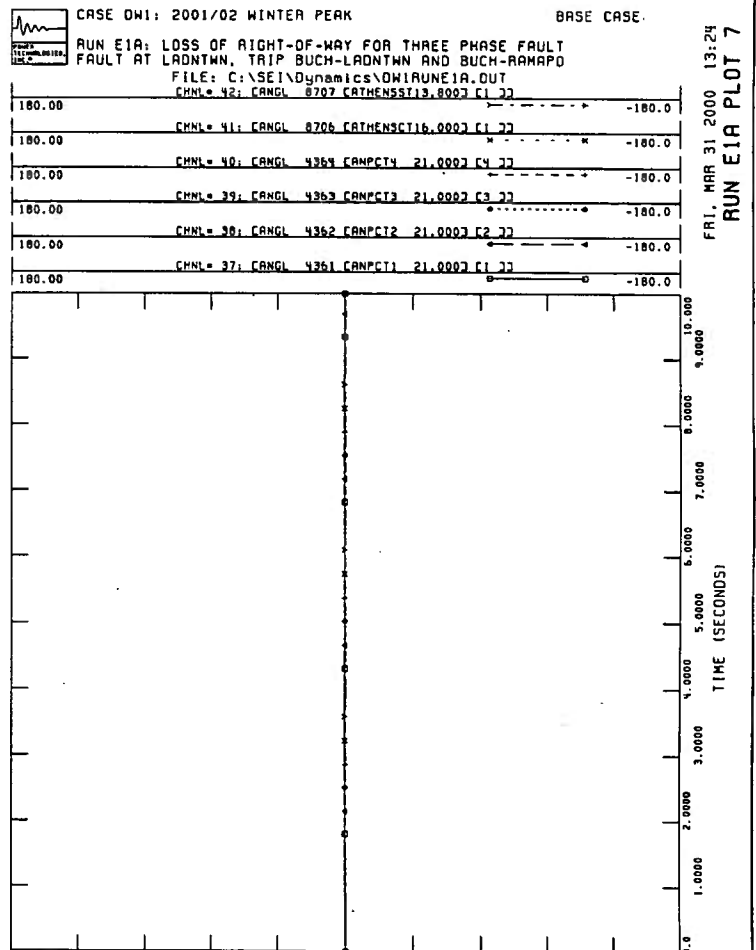
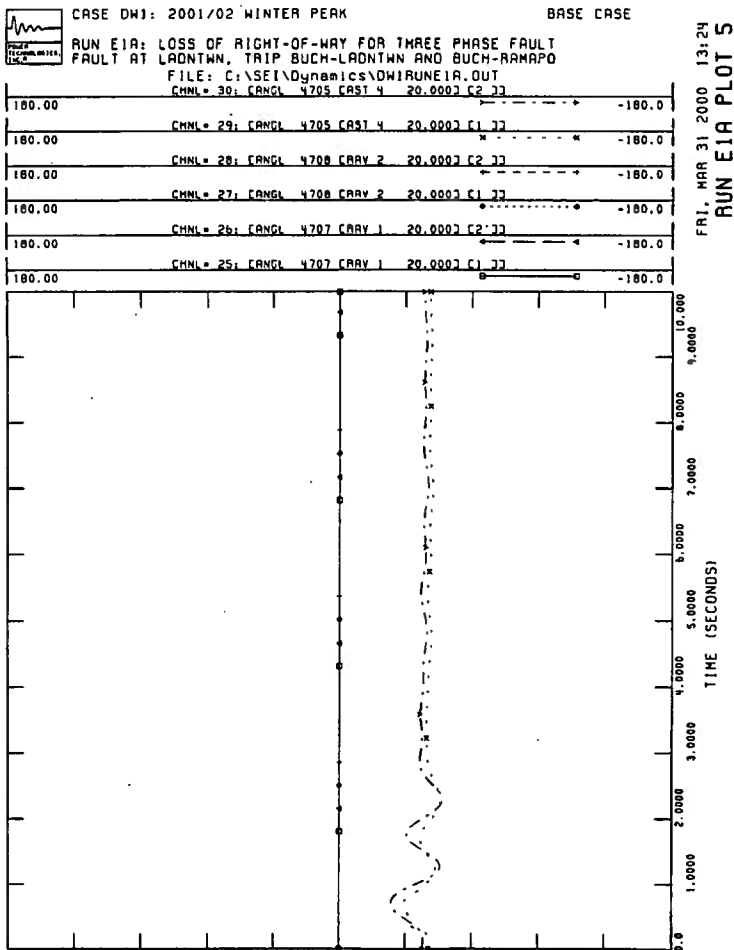
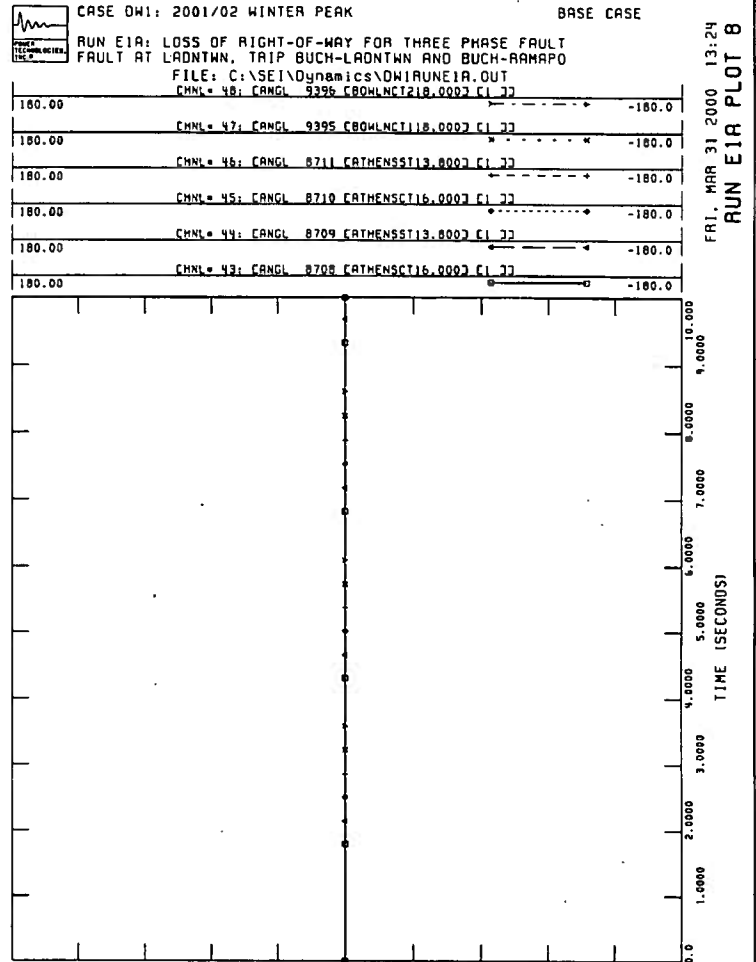
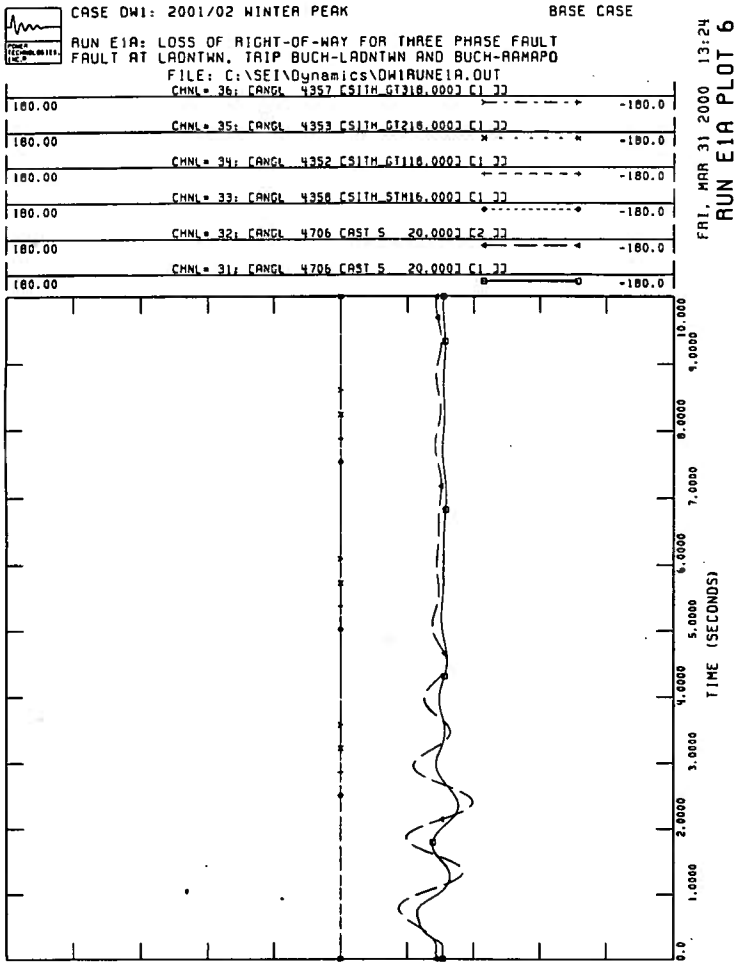
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2FILE: C:\SEI\Dynamic\DWIRUND5A.OUT
CHNL = 66: CANGL 23368 CSUSA 1 24.0002 C1 JJFRI, MAR 31 2000 13:24
RUN DSA PLOT 11

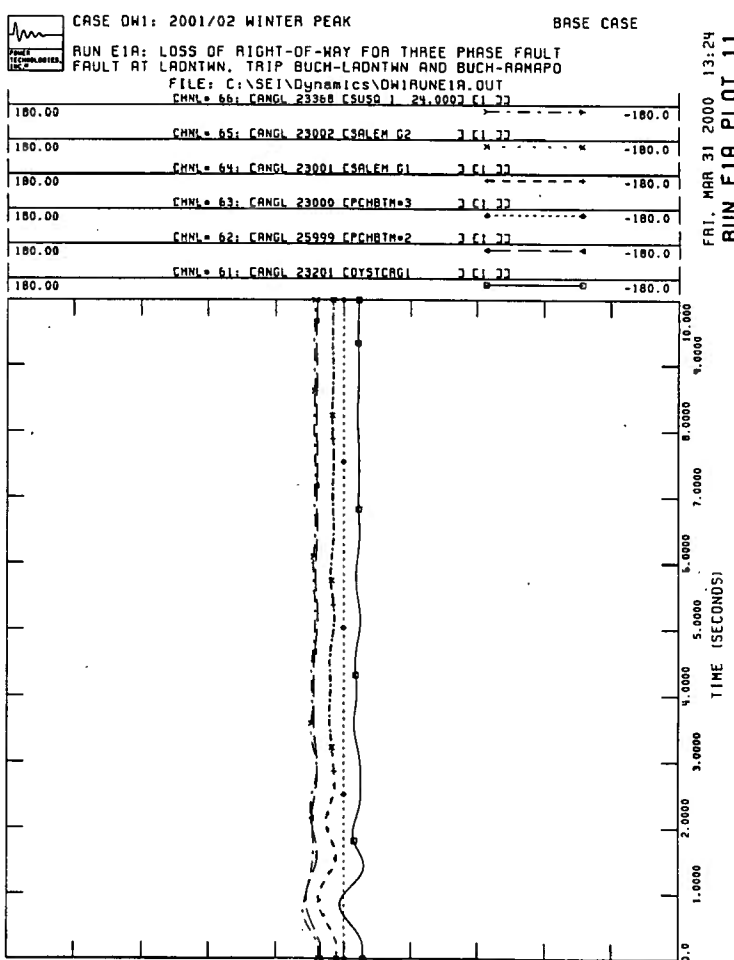
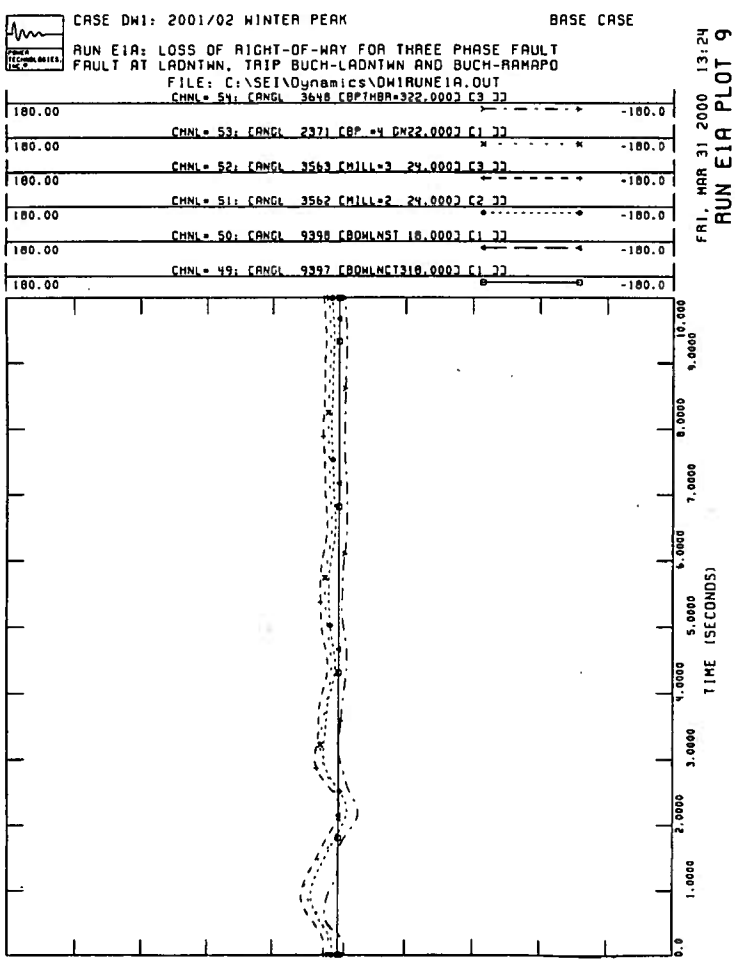
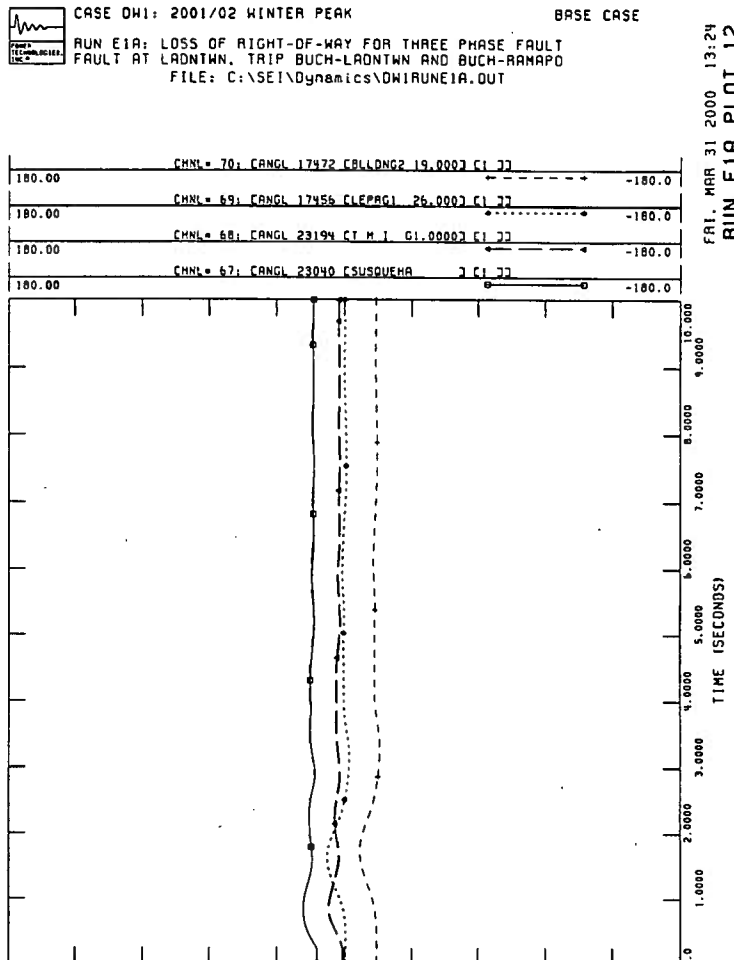
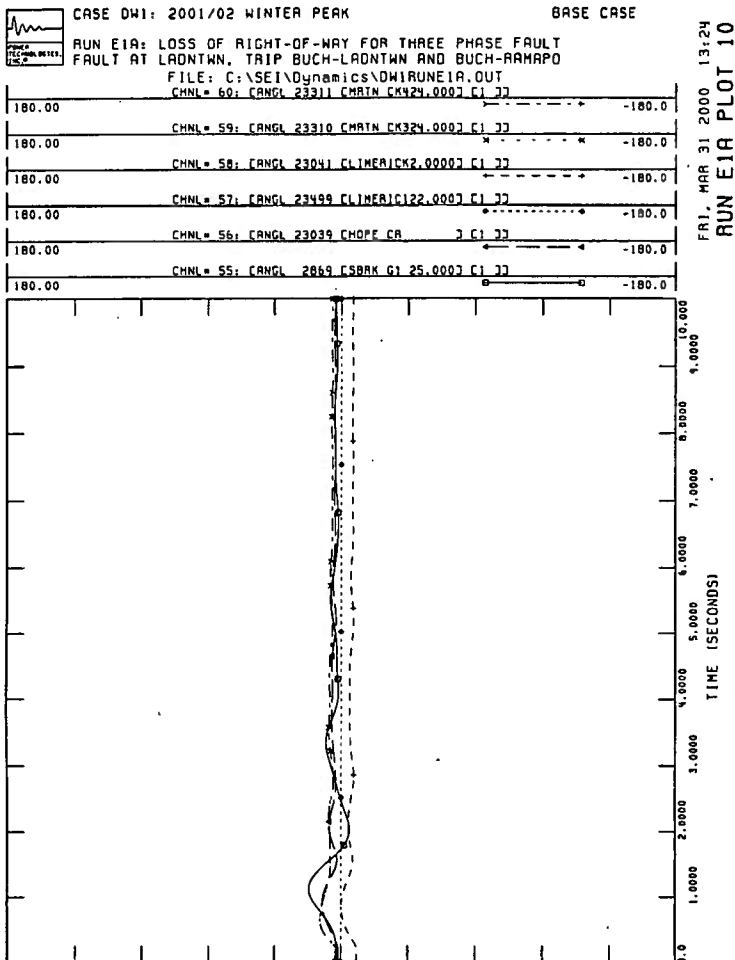


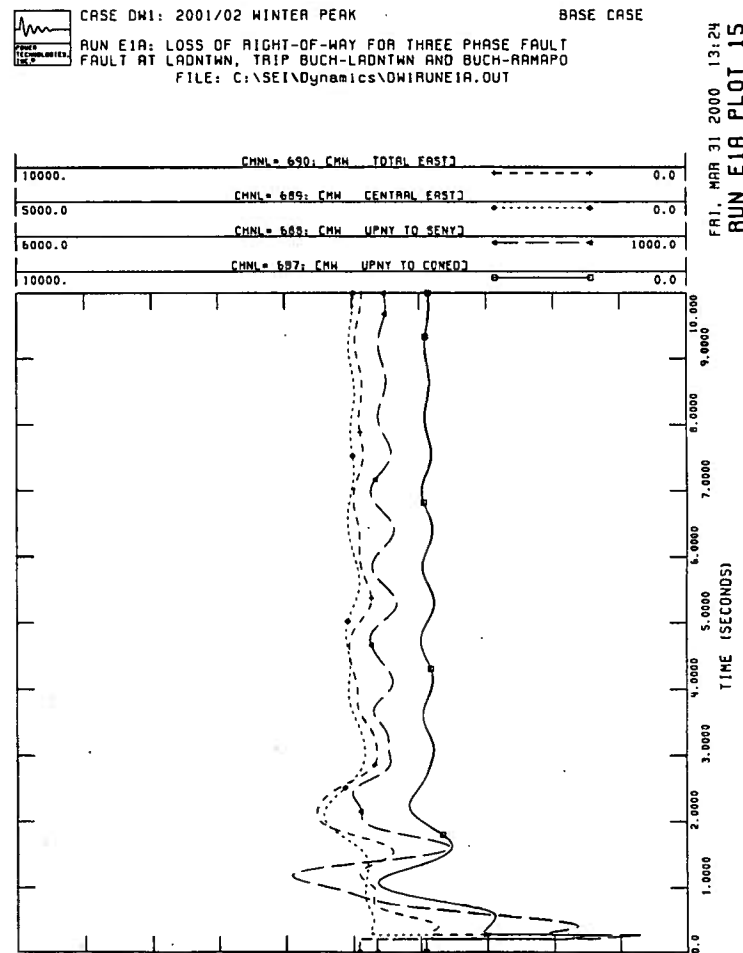
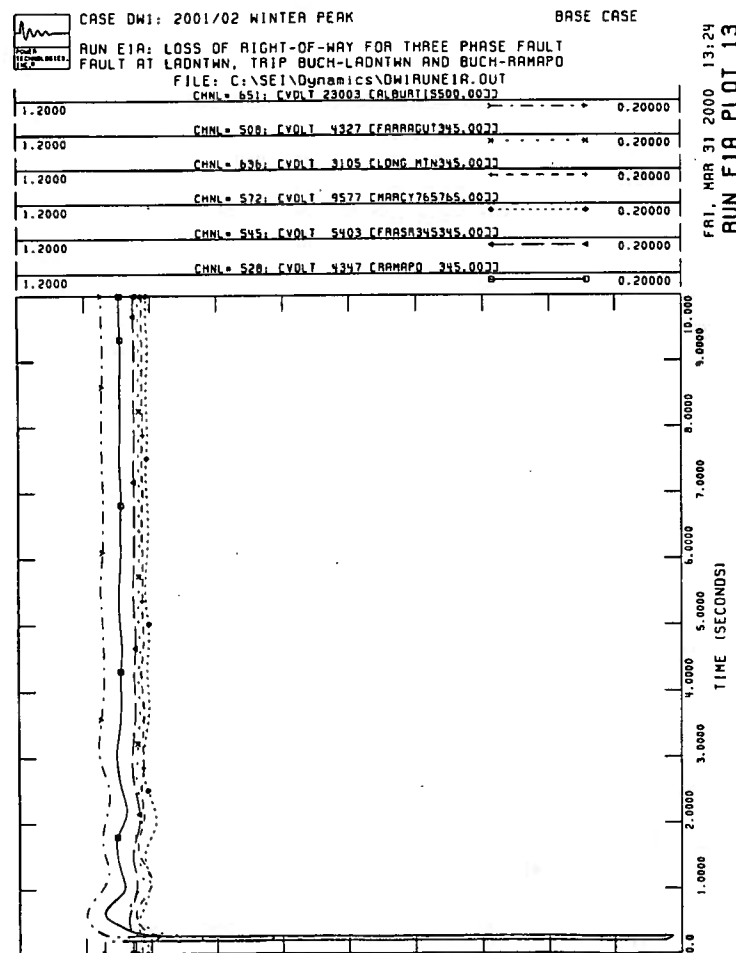
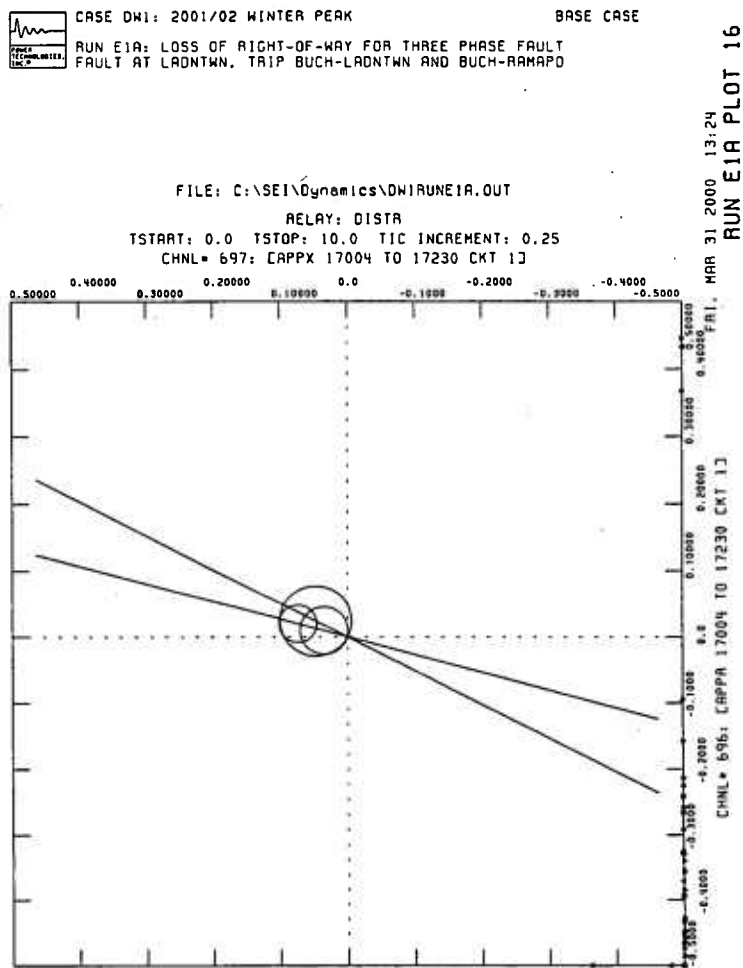
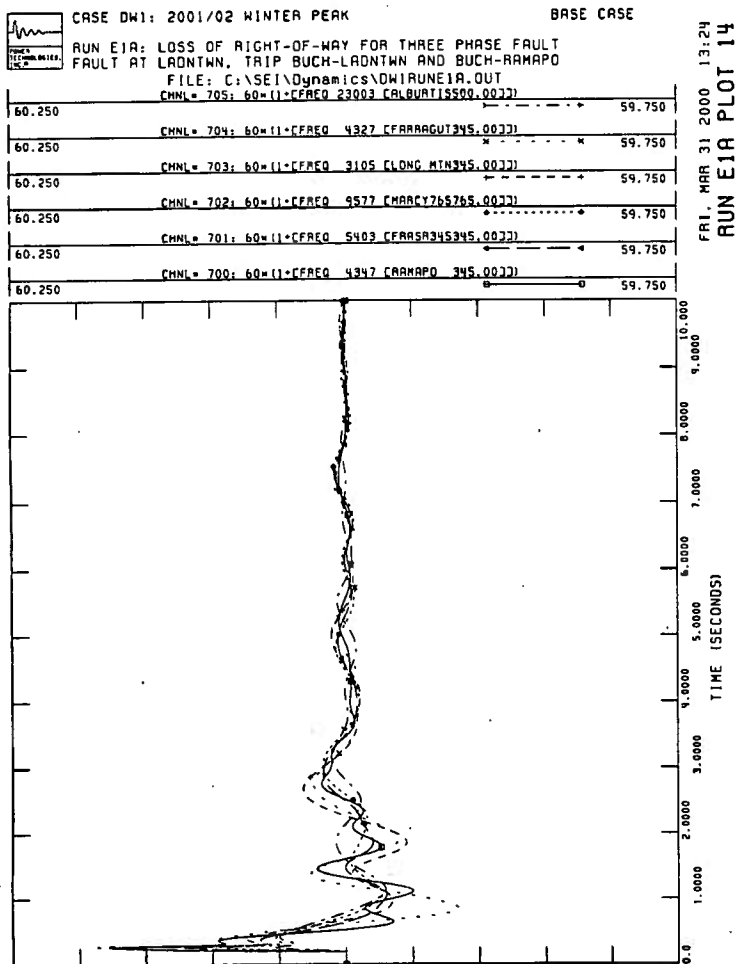
CONTINGENCY E1A

RECOVER FROM D1.SNP AND DW1.CNV
START OUTPUT DW1RUNE1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3









CONTINGENCY E2A

RECOVER FROM D1.SNP AND DW1.CNV
START OUTPUT DW1RUNE2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DISCONNECT BUS 4347 / DISCONNECT RAMAPO SUBSTATION
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

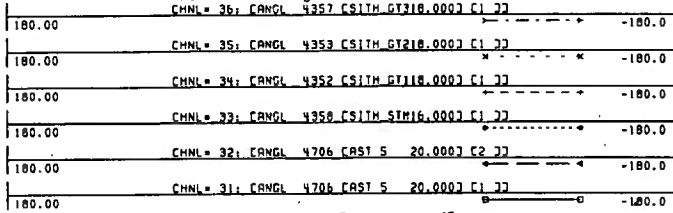


CASE DW1: 2001/02 WINTER PEAK

BASE CASE

RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DWIRUNE2A.OUT
CHNL = 36; CANGL 4357 CSITH GT318.0007 C1 JJ



FRI, MAR 31 2000 13:24
RUN E2A PLOT 6

TIME (SECONDS)

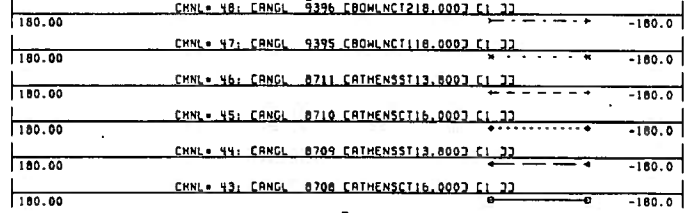


CASE DW1: 2001/02 WINTER PEAK

BASE CASE

RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DWIRUNE2A.OUT
CHNL = 48; CANGL 9396 CBOMLNC1218.0007 C1 JJ



FRI, MAR 31 2000 13:24
RUN E2A PLOT 8

TIME (SECONDS)

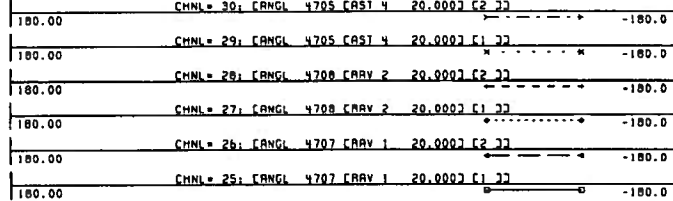


CASE DW1: 2001/02 WINTER PEAK

BASE CASE

RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DWIRUNE2A.OUT
CHNL = 30; CANGL 4705 CAST 4 20.0007 C2 JJ



FRI, MAR 31 2000 13:24
RUN E2A PLOT 5

TIME (SECONDS)

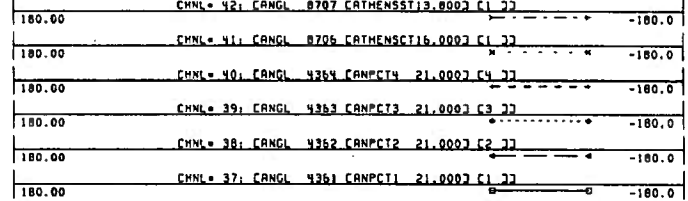


CASE DW1: 2001/02 WINTER PEAK

BASE CASE

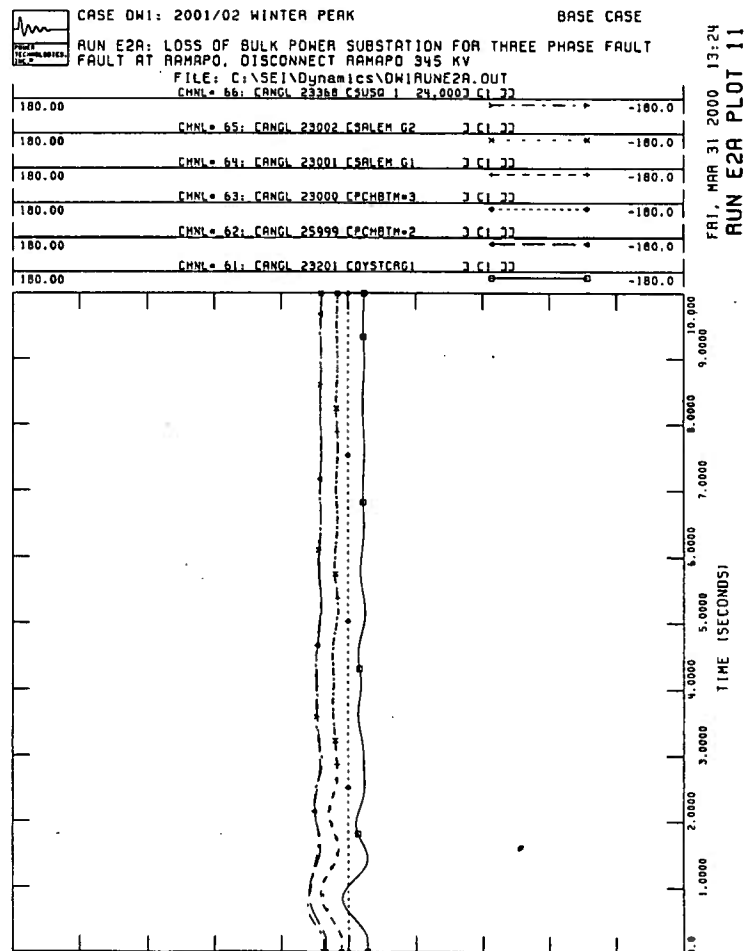
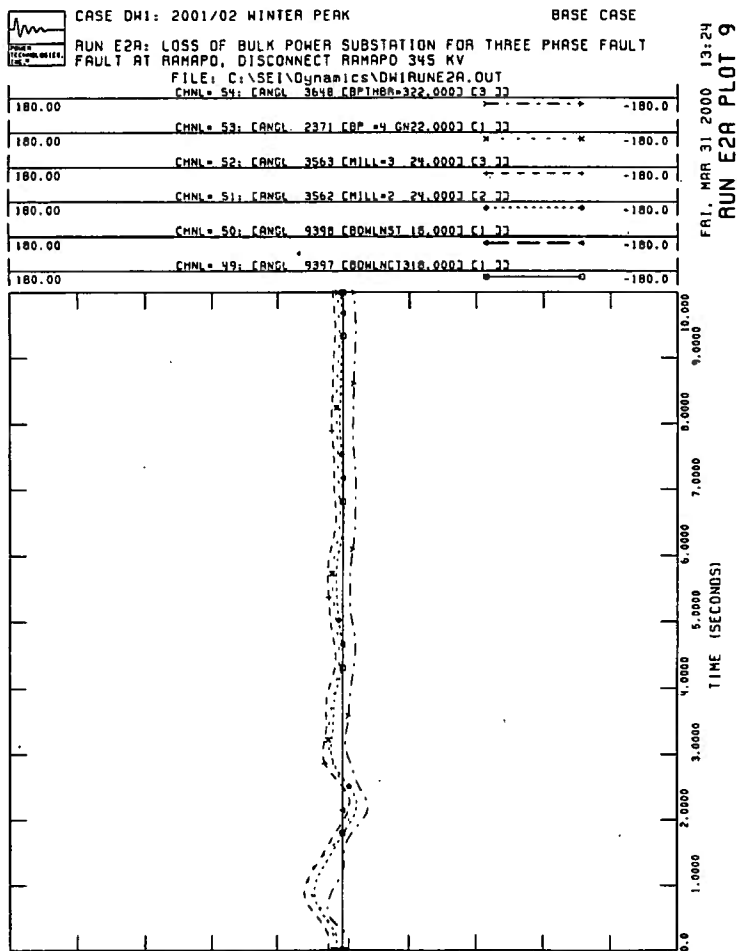
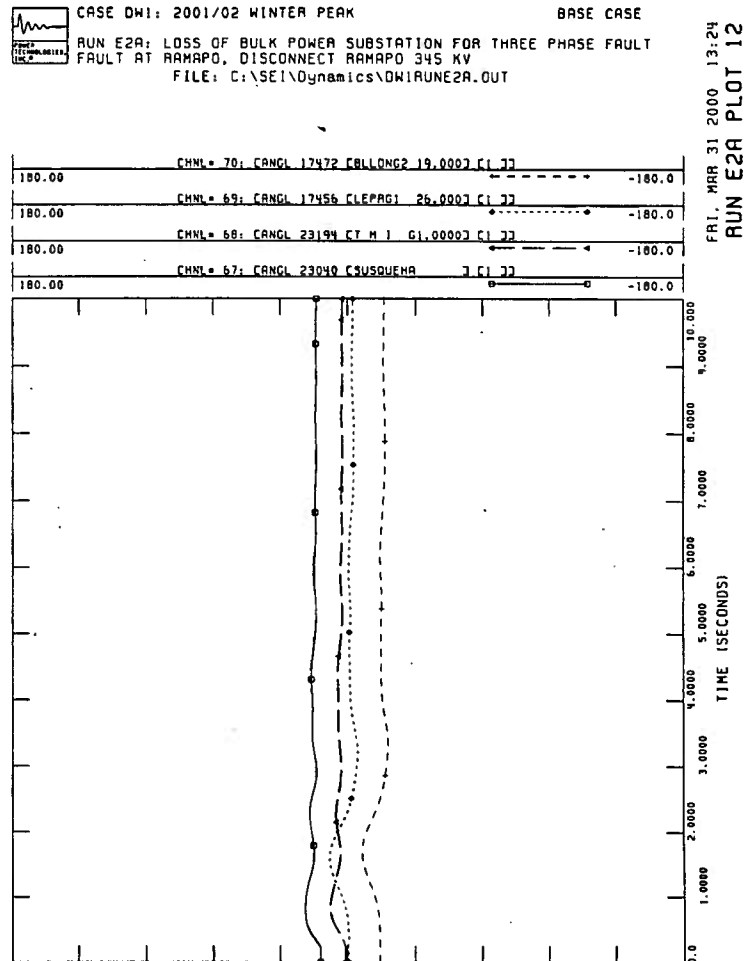
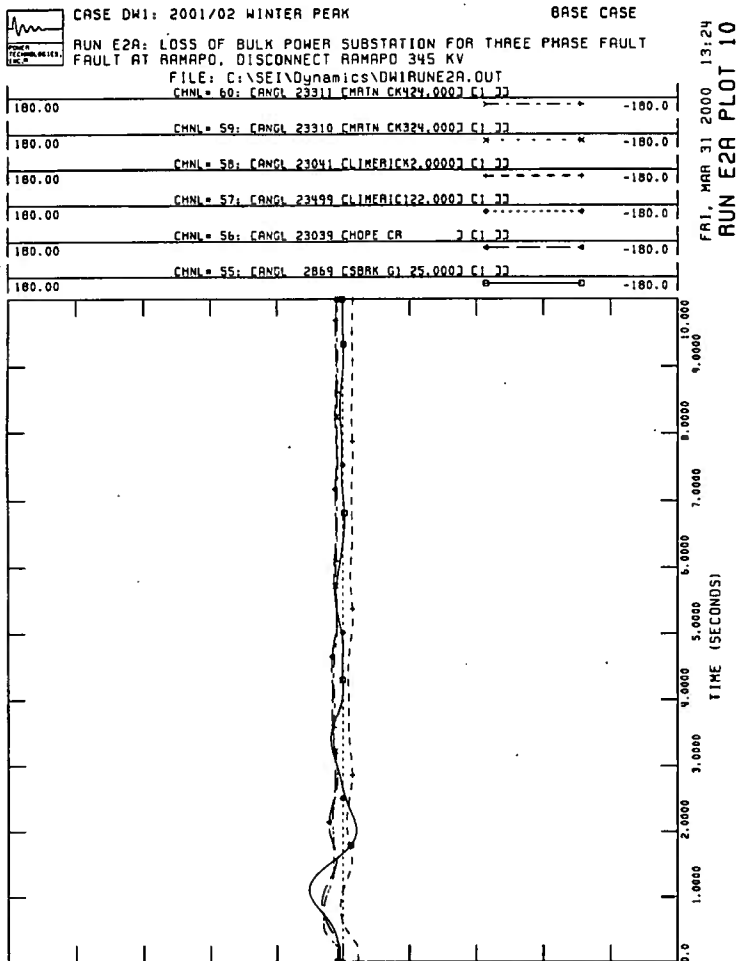
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

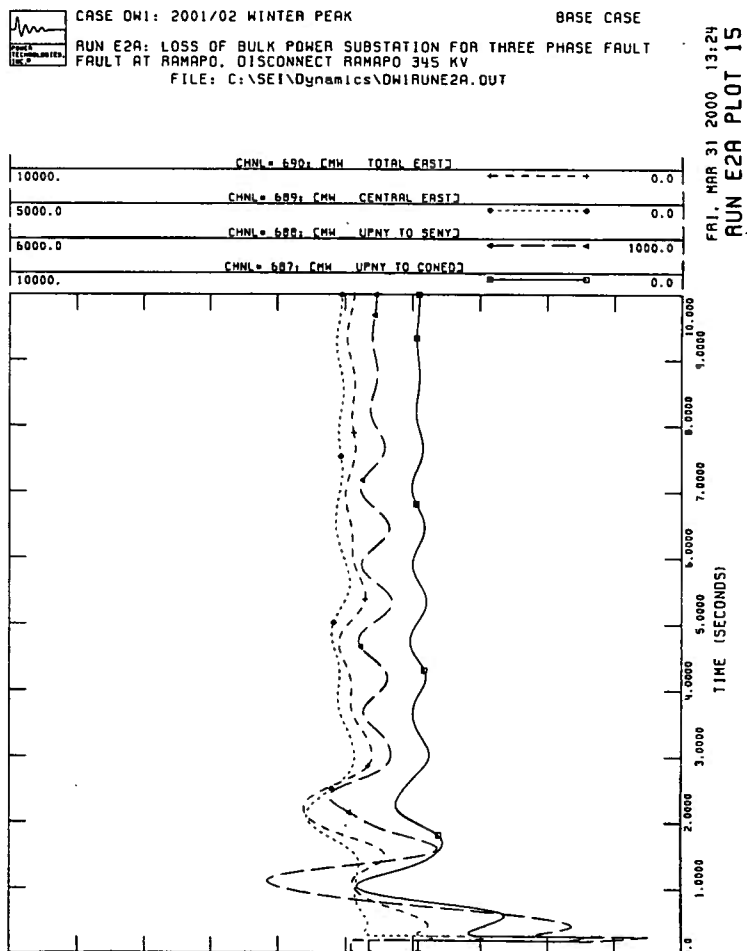
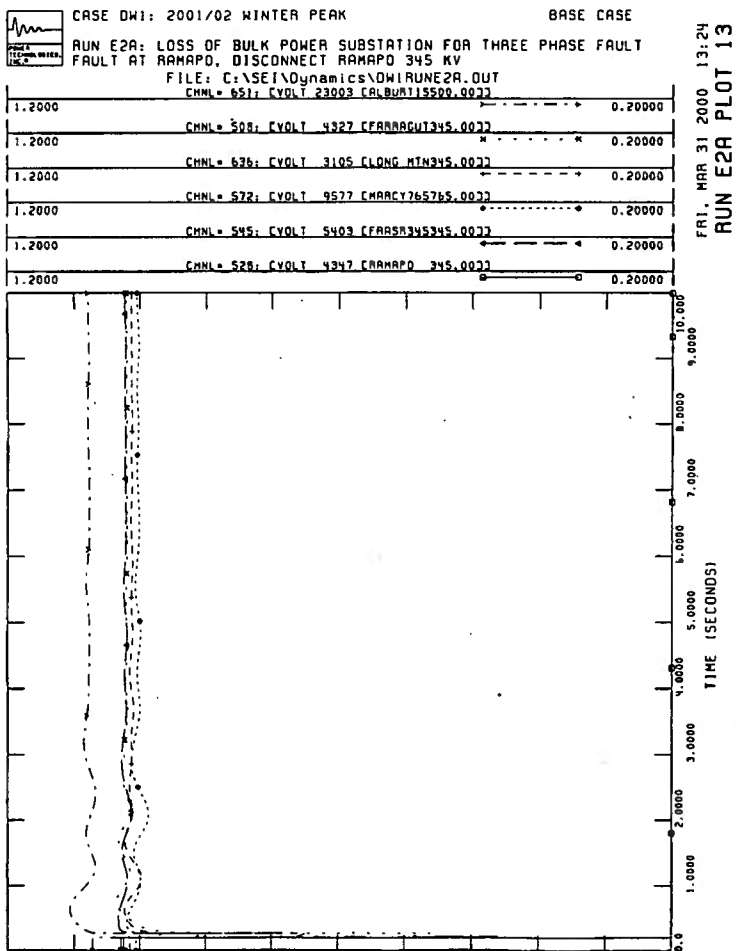
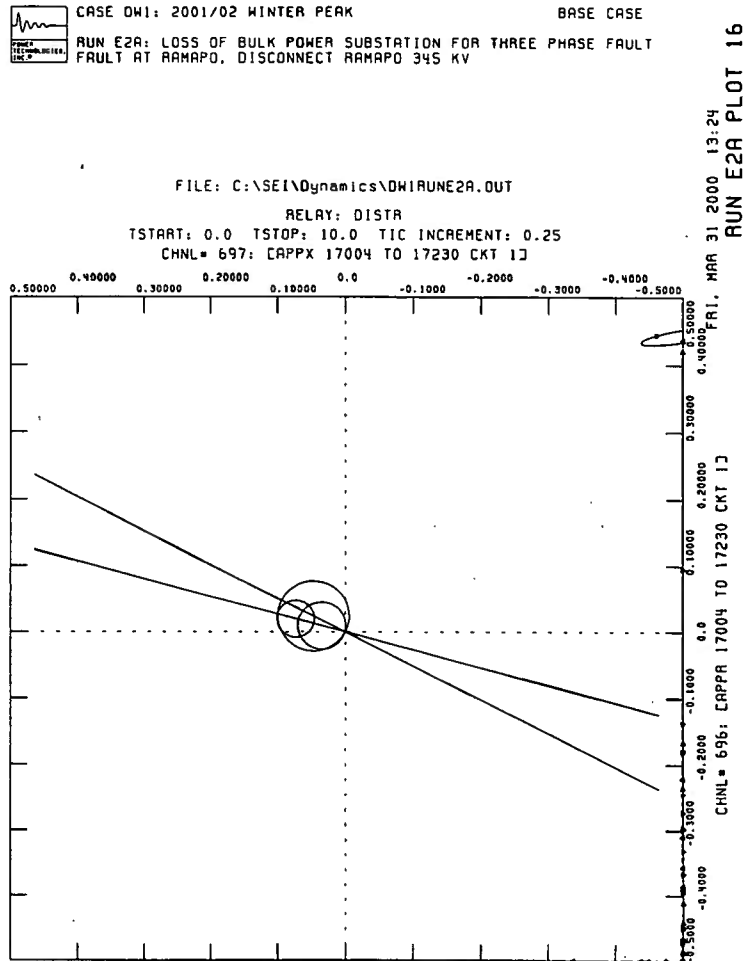
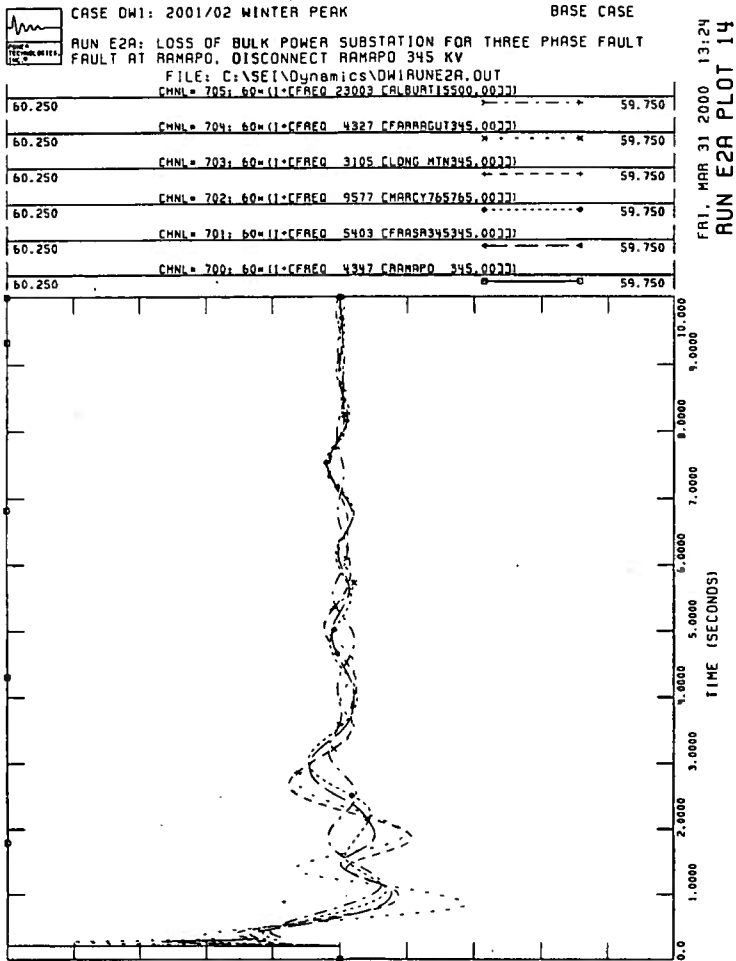
FILE: C:\SEI\Dynamic\DWIRUNE2A.OUT
CHNL = 42; CANGL 8707 CATHENSST13.8007 C1 JJ



FRI, MAR 31 2000 13:24
RUN E2A PLOT 7

TIME (SECONDS)





APPENDIX F.6 - Summer Peak Case DW2

Bowline 2 and 3 Off-Line

Bowline 1, Athens, ANP and Sithe On-Line

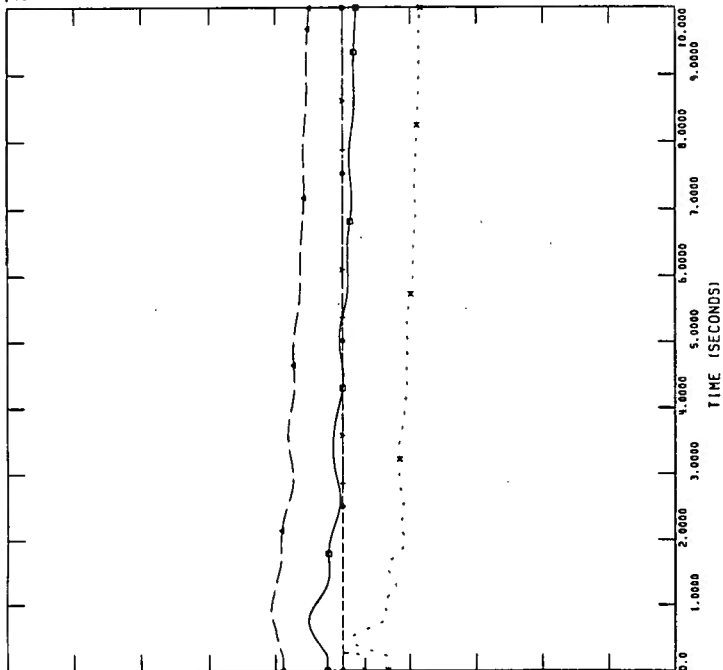
CONTINGENCY D2A

```
RECOVER FROM D1.SNP AND DW2.CNV
START OUTPUT DW2RUND2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0  -2e+009 MVA  / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9390  / TRIP BOWLINE 1
DROP GENERATOR 2 AT BUS 9391  / TRIP BOWLINE 2
DISCONNECT BUS 9300  /
DISCONNECT BUS 9301  /
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3
```



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUND2A.OUT
CHNL = 12: CANGL 9390 CBOHLINE 20.0007 C1 JJ

CHNL = 11: CANGL 9394 CLOVETT 520.0007 C5 JJ
CHNL = 10: CANGL 4192 CROSE GN224.0007 C2 JJ
CHNL = 9: CANGL 4190 CROSE GN124.0007 C1 JJ
CHNL = 8: CANGL 5523 CKINT1G2424.0007 C1 JJ
CHNL = 7: CANGL 7953 COSMGO 6622.0007 C6 JJ

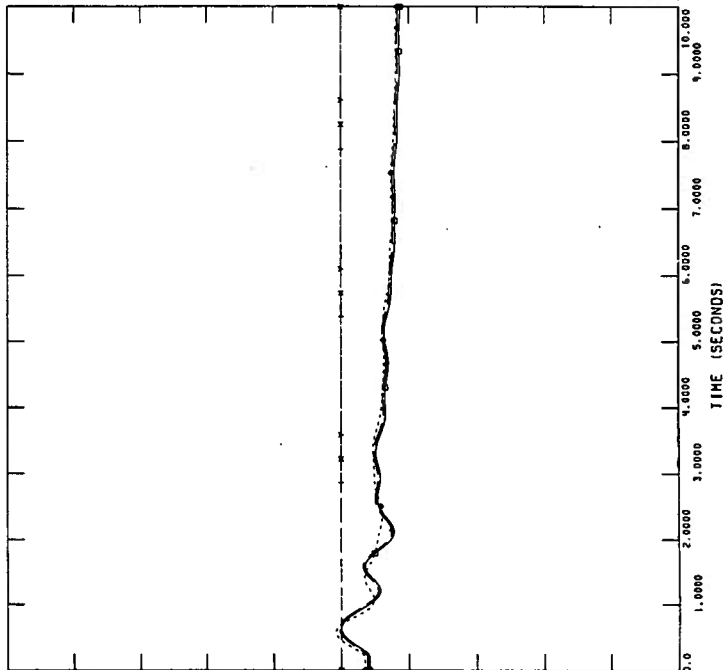


FRI, MAR 31 2000 15:30
RUN D2A PLOT 2



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUND2A.OUT
CHNL = 24: CANGL 4700 CAV 3 22.0007 C1 JJ

CHNL = 23: CANGL 4702 CAV 3 22.0007 C2 JJ
CHNL = 22: CANGL 4702 CAV 3 22.0007 C1 JJ
CHNL = 21: CANGL 9546 CPOLETTI 26.0007 C1 JJ
CHNL = 20: CANGL 4907 CNRPTIG2 22.0007 C1 JJ
CHNL = 19: CANGL 4906 CNRPTIG1 22.0007 C1 JJ

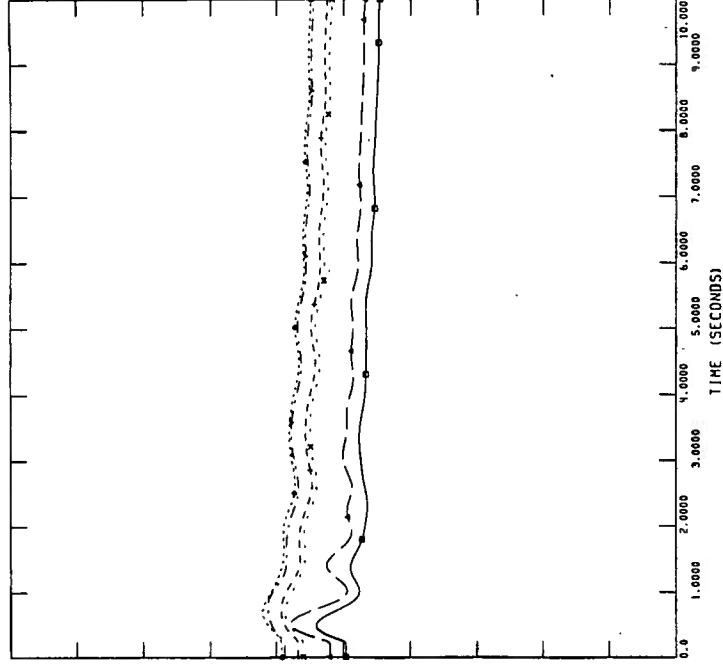


FRI, MAR 31 2000 15:30
RUN D2A PLOT 4



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUND2A.OUT
CHNL = 6: CANGL 7952 COSMGO 5622.0007 C5 JJ

CHNL = 5: CANGL 9547 CJARF171624.0007 C1 JJ
CHNL = 4: CANGL 7950 C9M PT 2625.0007 C2 JJ
CHNL = 3: CANGL 7951 C9M PT 1623.0007 C1 JJ
CHNL = 2: CANGL 9548 CJP=3 GEN22.0007 C1 JJ
CHNL = 1: CANGL 4701 CIND PT 222.0007 C2 JJ

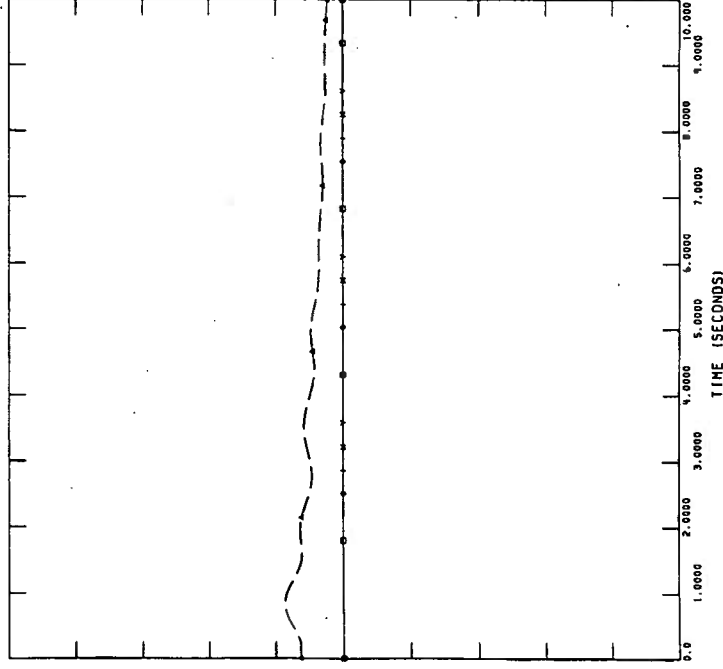


FRI, MAR 31 2000 15:30
RUN D2A PLOT 1



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUND2A.OUT
CHNL = 18: CANGL 4528 CG1B0R=217.0007 C2 JJ

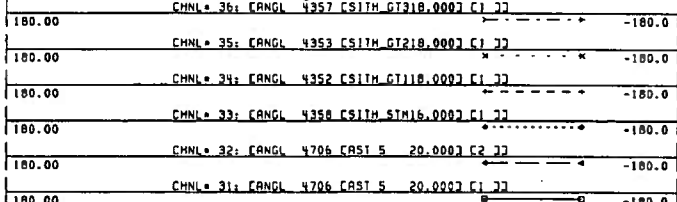
CHNL = 17: CANGL 9527 CG1B0R=117.0007 C1 JJ
CHNL = 16: CANGL 4193 CORNSK 6416.1007 C4 JJ
CHNL = 15: CANGL 8701 CLEEDS 3 345.007 C1 JJ
CHNL = 14: CANGL 9940 CGINNA 1919.0007 C1 JJ
CHNL = 13: CANGL 9391 CBOHLINE2020.0007 C2 JJ



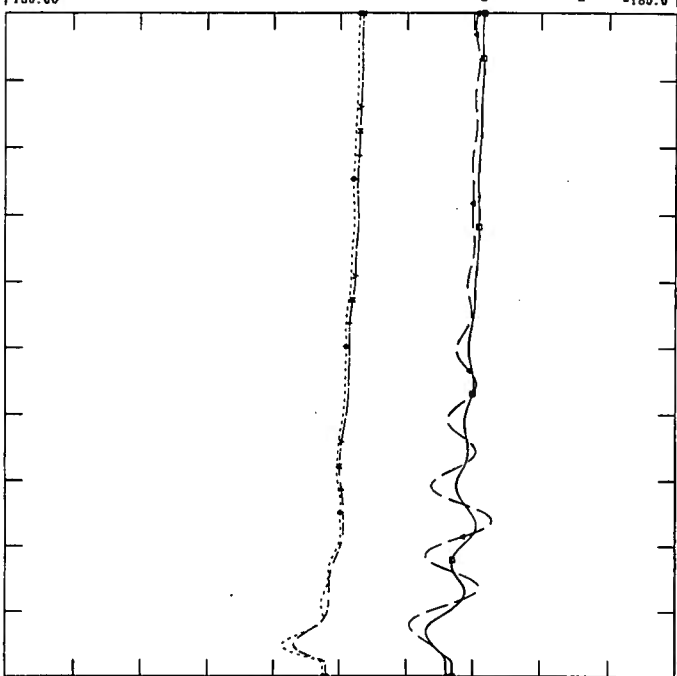
FRI, MAR 31 2000 15:30
RUN D2A PLOT 3



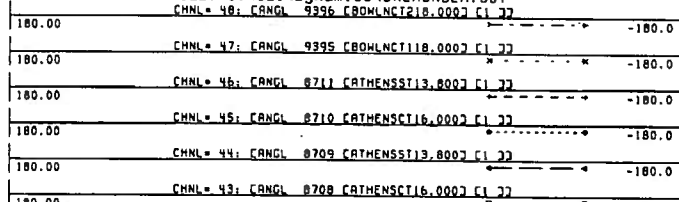
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUND2A.OUT
CHNL= 36: CANGL 4357 CSITH 67218.0007 C1 JJ



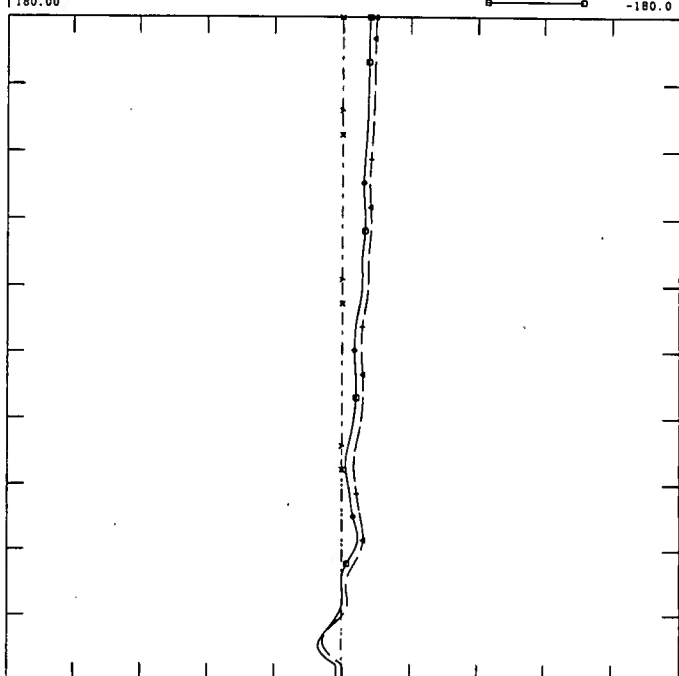
FRI, MAR 31 2000 15:30
RUN D2A PLOT 6



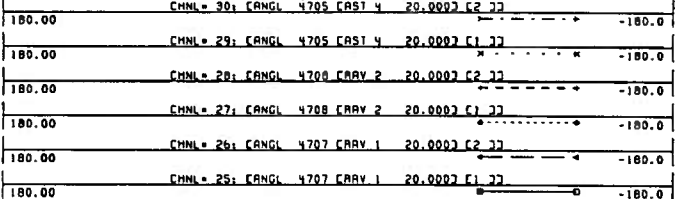
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUND2A.OUT
CHNL= 48: CANGL 9396 CROWINCT18.0007 C1 JJ



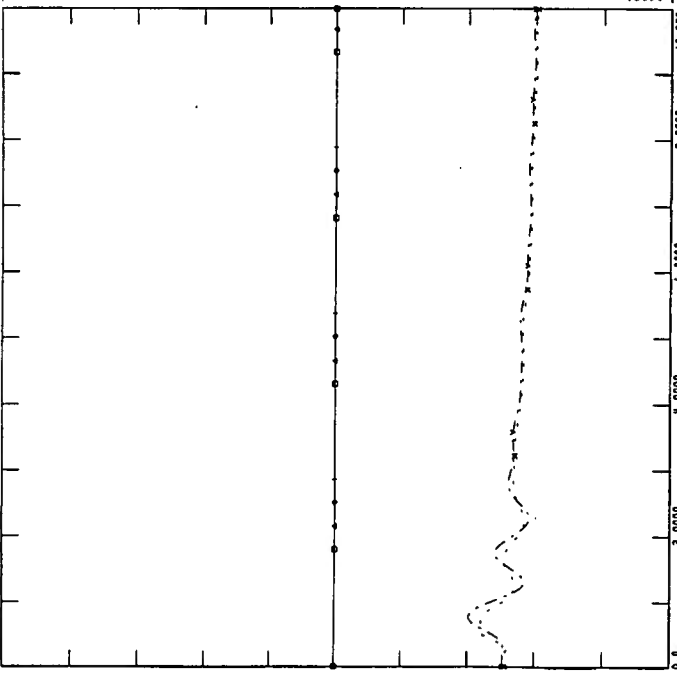
FRI, MAR 31 2000 15:30
RUN D2A PLOT 8



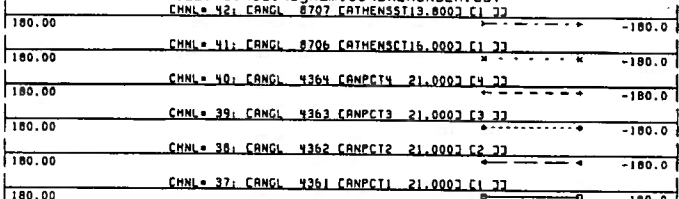
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUND2A.OUT
CHNL= 30: CANGL 4705 CAST 4 20.0007 C2 JJ



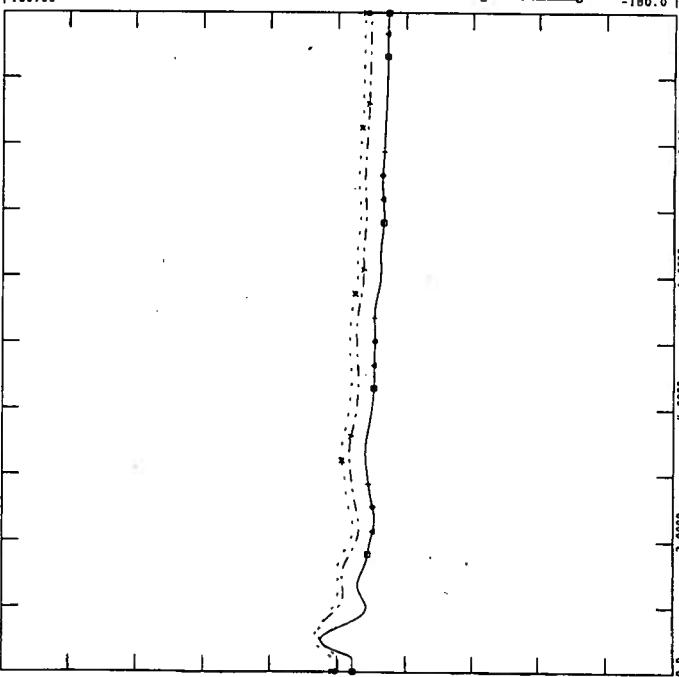
FRI, MAR 31 2000 15:30
RUN D2A PLOT 5



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUND2A.OUT
CHNL= 42: CANGL 8707 CATHEMSCT16.0007 C1 JJ

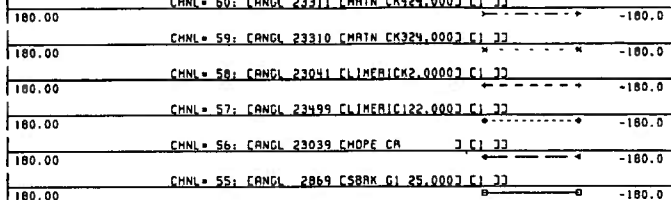


FRI, MAR 31 2000 15:30
RUN D2A PLOT 7





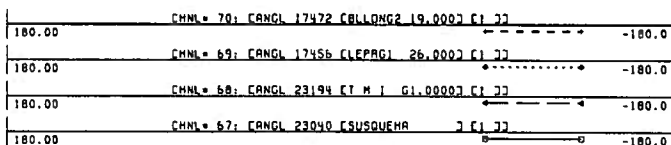
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\dynamics\DW2RUND2A.OUT
CHNL= 60: CANGI 23311 CMATN CK324.0000 C1 JJ



FRI, MAR 31 2000 15:30
RUN D2A PLOT 10



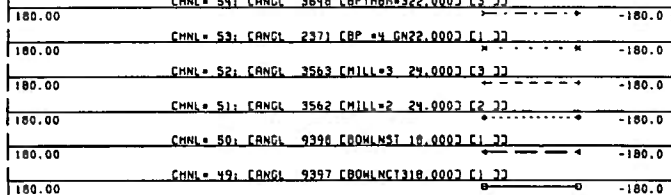
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\dynamics\DW2RUND2A.OUT
CHNL= 70: CANGI 17472 CALLONG2 19.0000 C1 JJ



FRI, MAR 31 2000 15:30
RUN D2A PLOT 12



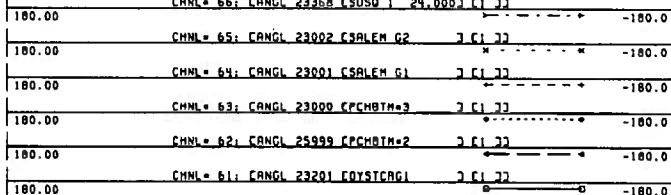
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\dynamics\DW2RUND2A.OUT
CHNL= 54: CANGI 3648 CPTMBA322.0000 C2 JJ



FRI, MAR 31 2000 15:30
RUN D2A PLOT 9



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2
FILE: C:\SEI\dynamics\DW2RUND2A.OUT
CHNL= 66: CANGI 23368 CSUSO 24.0000 C1 JJ

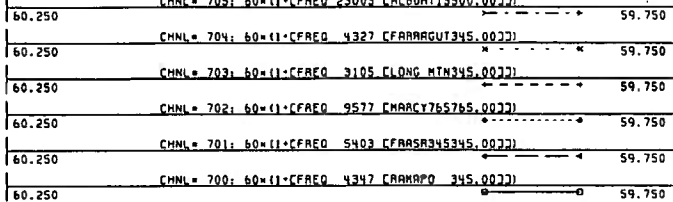


FRI, MAR 31 2000 15:30
RUN D2A PLOT 11

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\Dynamic\DW2RUND2A.OUT

CHNL = 705: 60-(1)-(CFREQ 23003 CALBART15500.0077)



FRI, MAR 31 2000 15:30
RUN D2A PLOT 14

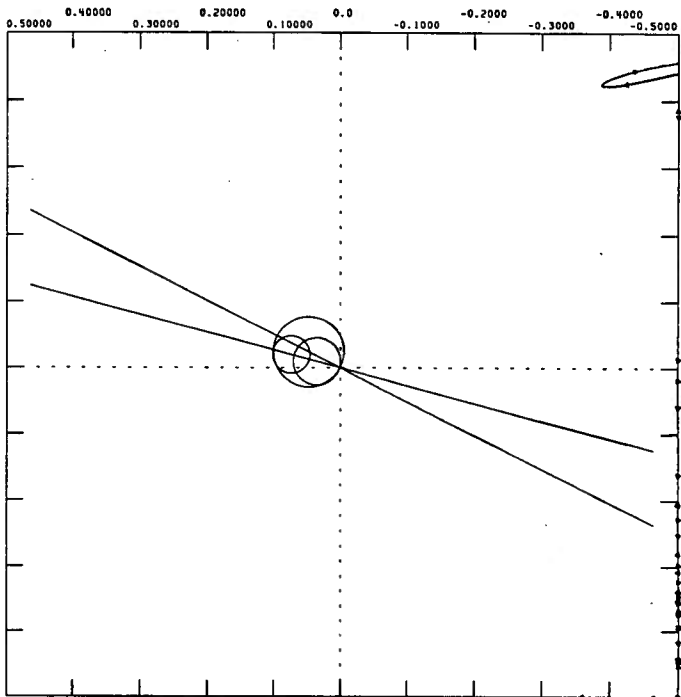
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\Dynamic\DW2RUND2A.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25

CHNL = 697: CAPPX 17004 TO 17230 CKT 13

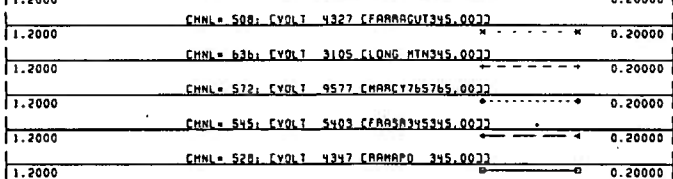


FRI, MAR 31 2000 15:30
RUN D2A PLOT 15

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\Dynamic\DW2RUND2A.OUT

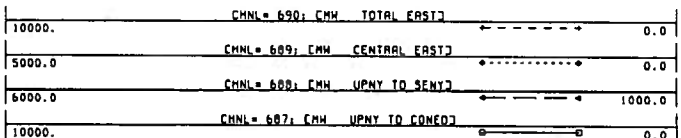
CHNL = 651: CVOLT 23003 CALBART15500.0077



FRI, MAR 31 2000 15:30
RUN D2A PLOT 13

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1 AND 2

FILE: C:\SEI\Dynamic\DW2RUND2A.OUT



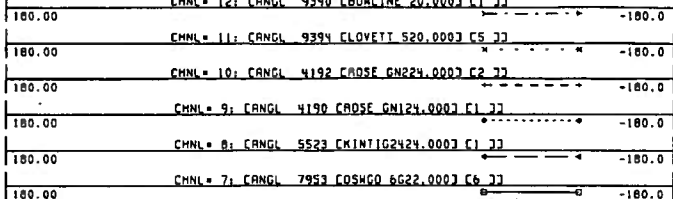
FRI, MAR 31 2000 15:30
RUN D2A PLOT 16

CONTINGENCY D3A

RECOVER FROM D1.SNP AND DW2.CNV
START OUTPUT DW2RUND3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 9582 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT INDN PT 3
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9548 / TRIP INDN PT 3
TRIP LINE FROM BUS 4313 TO BUS 9582 CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

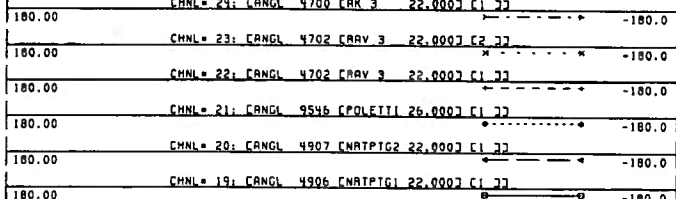
FILE: C:\SEI\Dynamic\DW2AUND3A.OUT
CHNL = 12: CANGL 9390 CBOHLINE 20.0007 C1 JJ



FRI, MAR 31 2000 15:30
RUN D3A PLOT 2

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

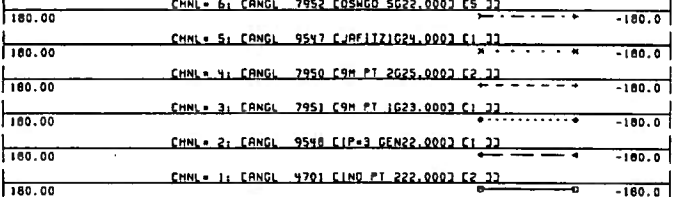
FILE: C:\SEI\Dynamic\DW2AUND3A.OUT
CHNL = 24: CANGL 4700 CAX 3 22.0007 C1 JJ



FRI, MAR 31 2000 15:30
RUN D3A PLOT 4

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

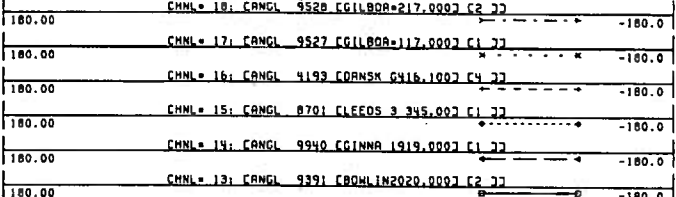
FILE: C:\SEI\Dynamic\DW2AUND3A.OUT
CHNL = 61: CANGL 7952 CASHGO 5622.0007 C5 JJ



FRI, MAR 31 2000 15:30
RUN D3A PLOT 1

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

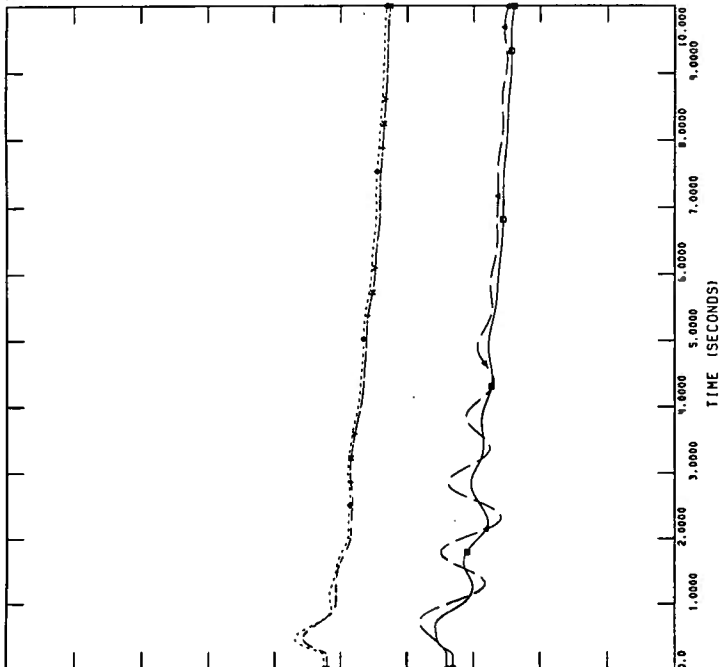
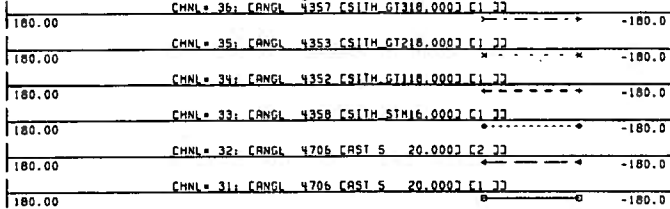
FILE: C:\SEI\Dynamic\DW2AUND3A.OUT
CHNL = 18: CANGL 9520 CGL180A=217.0007 C2 JJ



FRI, MAR 31 2000 15:30
RUN D3A PLOT 3

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

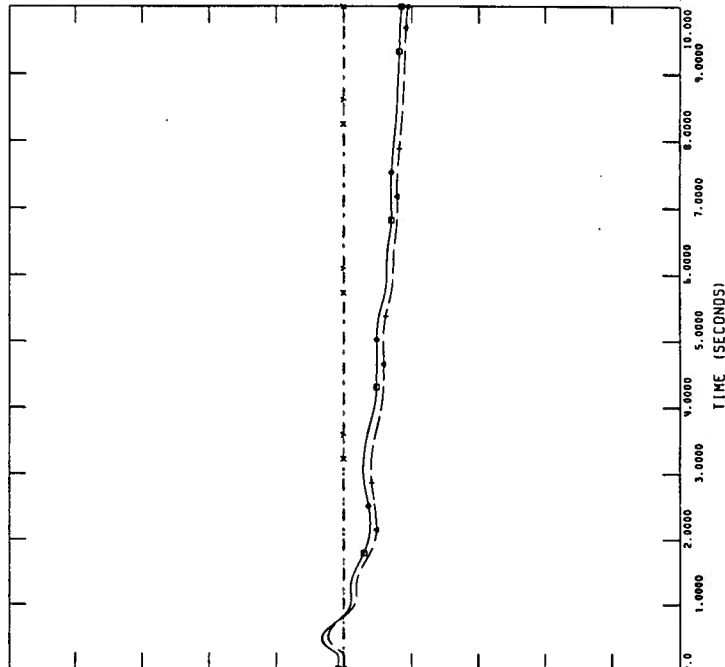
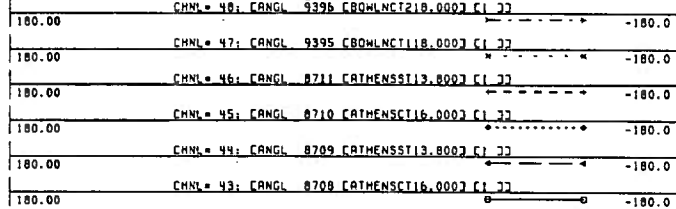
FILE: C:\SEI\Dynamic\DW2\RUND3A.OUT
CHNL = 36: CANGL 4357 CSITH G1318.0003 C1 JJ



FRI, MAR 31 2000 15:30
RUN D3A PLOT 6

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

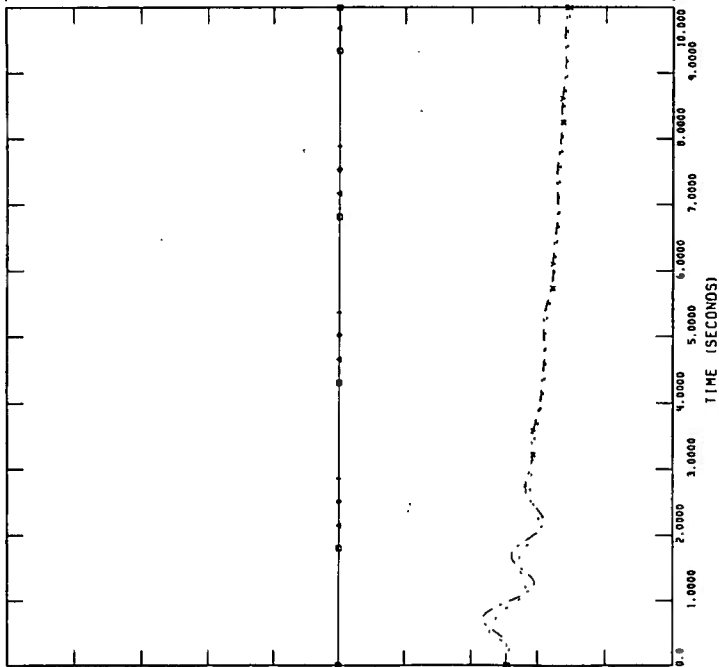
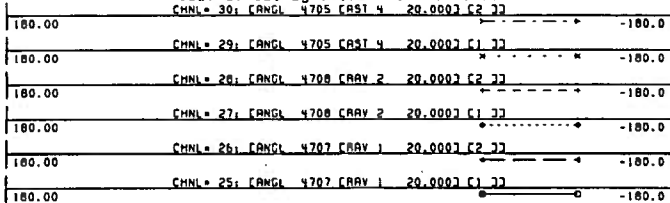
FILE: C:\SEI\Dynamic\DW2\RUND3A.OUT
CHNL = 48: CANGL 9395 CBOWLNCT118.0003 C1 JJ



FRI, MAR 31 2000 15:30
RUN D3A PLOT 8

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

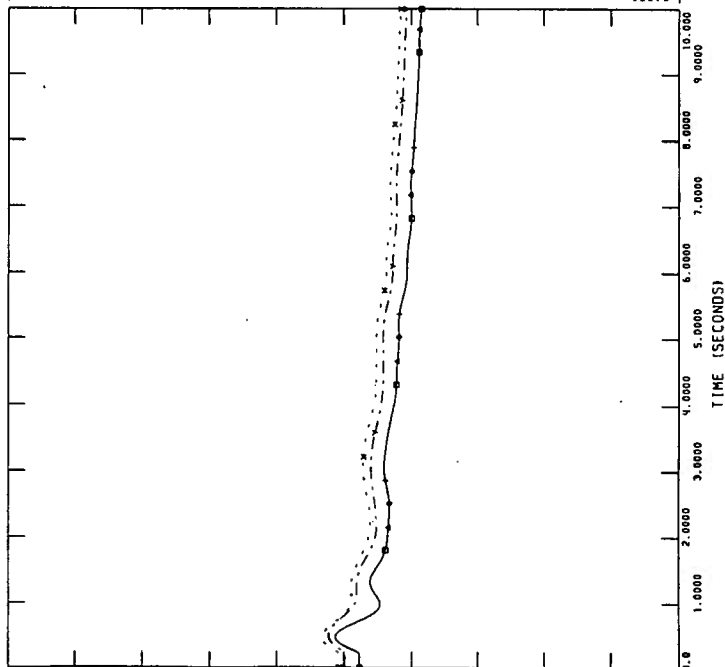
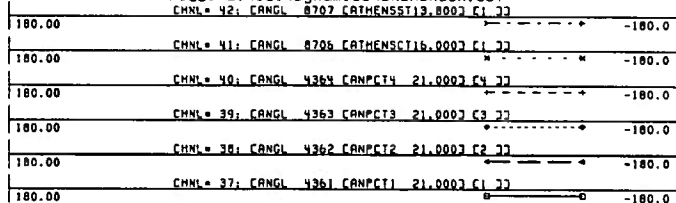
FILE: C:\SEI\Dynamic\DW2\RUND3A.OUT
CHNL = 30: CANGL 4705 CASI 4 20.0003 C2 JJ



FRI, MAR 31 2000 15:30
RUN D3A PLOT 5

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW2\RUND3A.OUT
CHNL = 42: CANGL 8707 CATHENSCT13.8003 C1 JJ

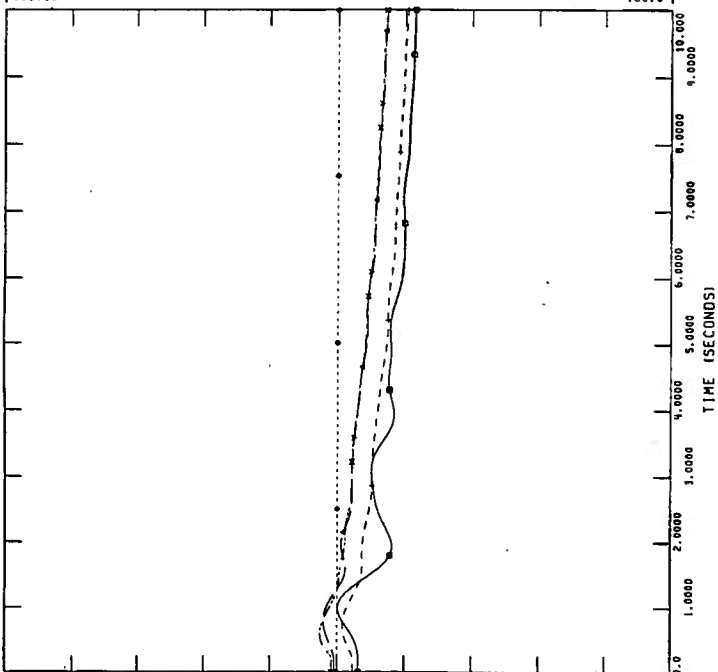


FRI, MAR 31 2000 15:30
RUN D3A PLOT 7

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\odynamics\DW2RUND3A.OUT
CHNL= 50: CANGL 23311 CHATN CM324.0000 C1 JJ

180.00 CHNL= 59: CANGL 23310 CHATN CM324.0000 C1 JJ -180.0
180.00 CHNL= 58: CANGL 23041 CLINERICK2.0000 C1 JJ -180.0
180.00 CHNL= 57: CANGL 23499 CLINERICK2.0000 C1 JJ -180.0
180.00 CHNL= 56: CANGL 23039 CHOPE CR J C1 JJ -180.0
180.00 CHNL= 55: CANGL 2869 CSARK G1 25.0000 C1 JJ -180.0

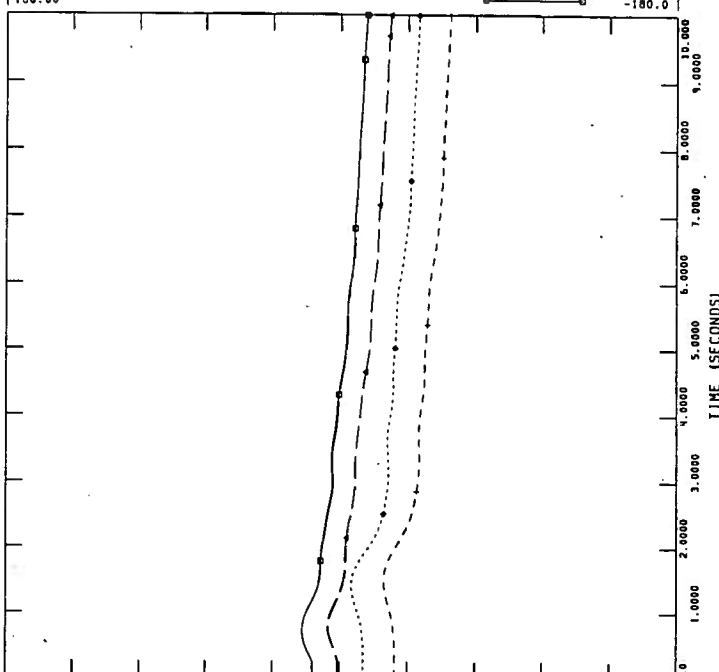


FRI, MAR 31 2000 15:30
RUN D3A PLOT 10

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\odynamics\DW2RUND3A.OUT

CHNL= 70: CANGL 17472 CALLONG2 19.0000 C1 JJ -180.0
CHNL= 69: CANGL 17456 ELEPAG1 26.0000 C1 JJ -180.0
CHNL= 68: CANGL 23194 CT M 1 C1.00000 C1 JJ -180.0
CHNL= 67: CANGL 23040 CSUSQUEHA J C1 JJ -180.0

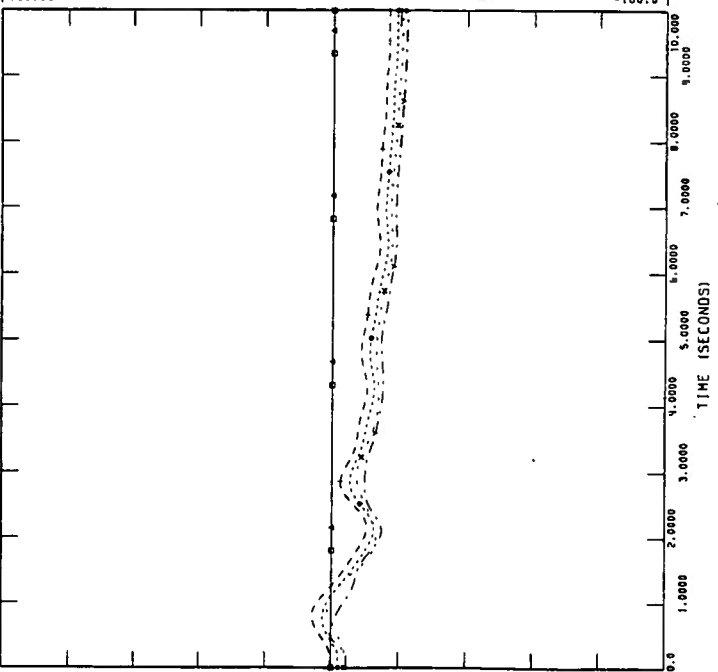


FRI, MAR 31 2000 15:30
RUN D3A PLOT 12

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\odynamics\DW2RUND3A.OUT
CHNL= 54: CANGL 3648 CAPTHBA-322.0000 C3 JJ

180.00 CHNL= 53: CANGL 2371 CAP -4 CM22.0000 C1 JJ -180.0
180.00 CHNL= 52: CANGL 3563 CMILL-3 24.0000 C3 JJ -180.0
180.00 CHNL= 51: CANGL 3562 CMILL-2 24.0000 C2 JJ -180.0
180.00 CHNL= 50: CANGL 9398 CROWNST 18.0000 C1 JJ -180.0
180.00 CHNL= 49: CANGL 9397 CROWNST 18.0000 C1 JJ -180.0

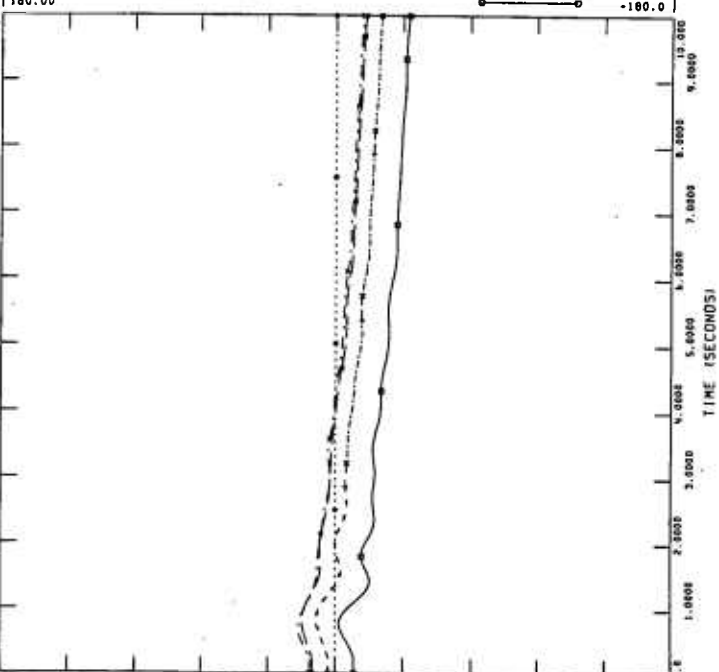


FRI, MAR 31 2000 15:30
RUN D3A PLOT 9

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\odynamics\DW2RUND3A.OUT
CHNL= 66: CANGL 23368 CSUSQ J 24.0000 C1 JJ

CHNL= 65: CANGL 23002 CSALEN G2 J C1 JJ -180.0
CHNL= 64: CANGL 23001 CSALEN G1 J C1 JJ -180.0
CHNL= 63: CANGL 23000 CPCHBTM-3 J C1 JJ -180.0
CHNL= 62: CANGL 25999 CPCHBTM-2 J C1 JJ -180.0
CHNL= 61: CANGL 23201 COYSTCAG1 J C1 JJ -180.0

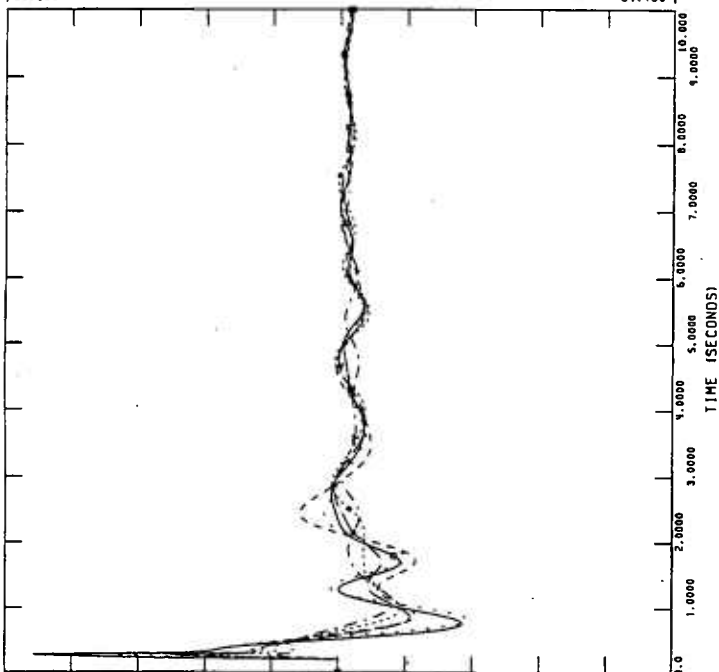


FRI, MAR 31 2000 15:30
RUN D3A PLOT 11

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW2RUND3A.OUT
CHNL = 705: 60*(1-CFREQ 23003 CALBUT15500.0000)

60.250 CHNL = 704: 60*(1-CFREQ 4327 CFARACUT1345.0000) 59.750
60.250 CHNL = 703: 60*(1-CFREQ 3105 CLONG MTN345.0000) 59.750
60.250 CHNL = 702: 60*(1-CFREQ 9577 CMARCY765765.0000) 59.750
60.250 CHNL = 701: 60*(1-CFREQ 5403 CFARACUT1345.0000) 59.750
60.250 CHNL = 700: 60*(1-CFREQ 4347 CFARACUT 345.0000) 59.750

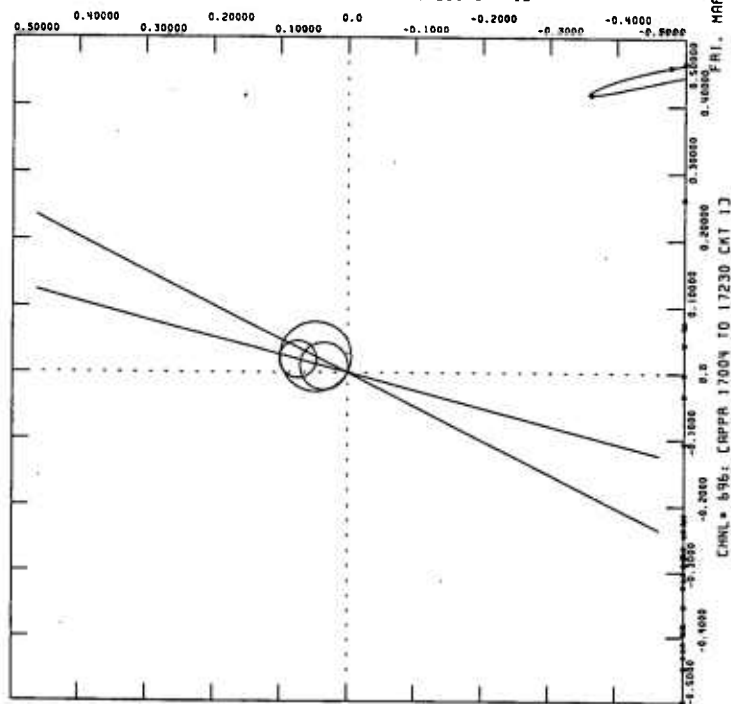


FRI, MAR 31 2000 15:30
RUN D3A PLOT 14

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW2RUND3A.OUT

RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

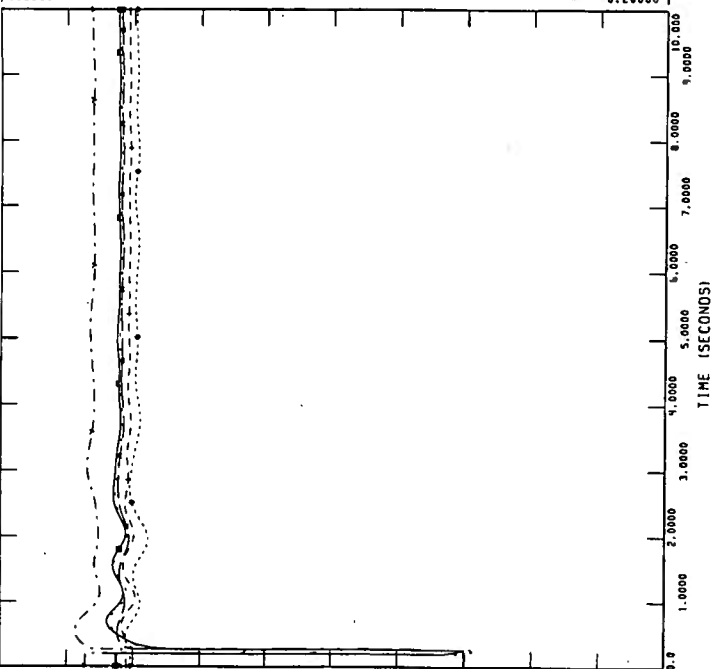


FRI, MAR 31 2000 15:30
RUN D3A PLOT 16

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW2RUND3A.OUT
CHNL = 651: CVOLT 23003 CALBUT15500.0000

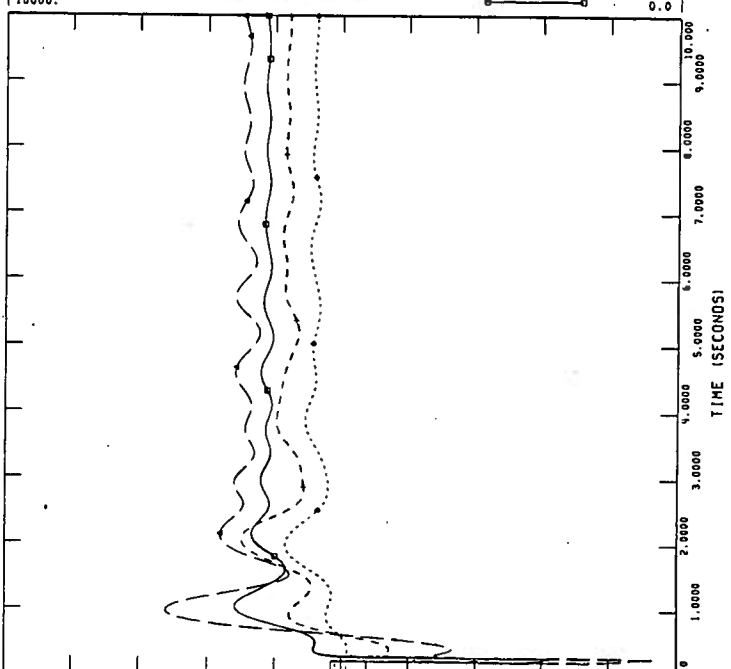
1.2000 CHNL = 508: CVOLT 4327 CFARACUT1345.0000 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MTN345.0000 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCY765765.0000 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARACUT1345.0000 0.20000
1.2000 CHNL = 528: CVOLT 4347 CFARACUT 345.0000 0.20000



FRI, MAR 31 2000 15:30
RUN D3A PLOT 13

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3
FILE: C:\SEI\Dynamic\DW2RUND3A.OUT

10000. CHNL = 690: CMW TOTAL EAST 0.0
5000.0 CHNL = 689: CMW CENTRAL EAST 0.0
5000.0 CHNL = 688: CMW UPNY TO SENE 1000.0
10000. CHNL = 687: CMW UPNY TO CONEQ 0.0



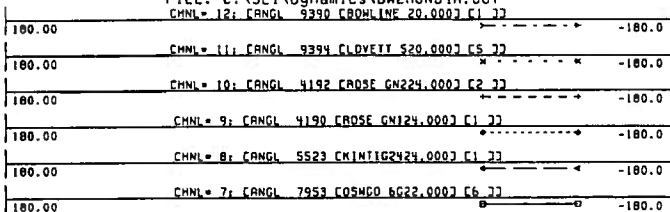
FRI, MAR 31 2000 15:30
RUN D3A PLOT 15

CONTINGENCY D4A

RECOVER FROM D1.SNP AND DW2.CNV
START OUTPUT DW2RUND4A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4347 CKT 1 / TRIP LADENTOWN-RAMAPO
CLEAR FAULT
RUN FOR 31 CYCLES PRINT 0 PLOT 3
APPLY FAULT BUS 4347 IMPEDANCE 0.119 2.642 OHMS BASEKV 345 / RECLOSE AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



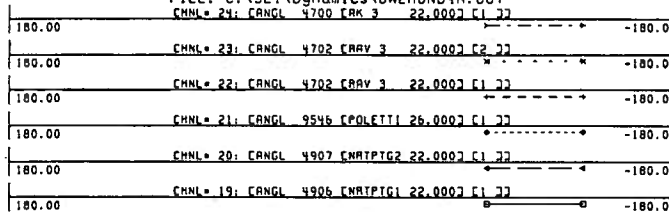
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2\RUN04A.OUT
CHNL= 12; CANGL 9390 CROVINE 20.000 C1 JJ



FRI, MAR 31 2000 15:30
RUN D4A PLOT 2



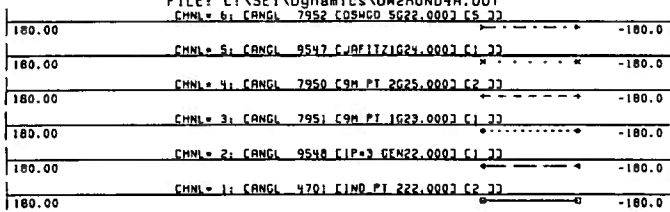
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2\RUN04A.OUT
CHNL= 24; CANGL 4700 CARV 3 22.000 C2 JJ



FRI, MAR 31 2000 15:30
RUN D4A PLOT 4



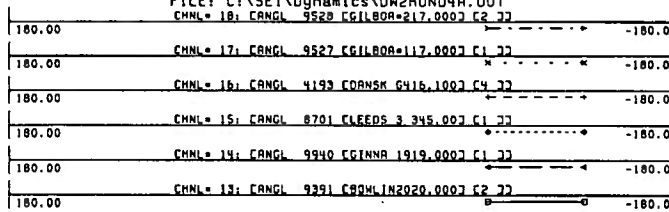
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2\RUN04A.OUT
CHNL= 6; CANGL 7952 COSMCO 5622.000 C5 JJ



FRI, MAR 31 2000 15:30
RUN D4A PLOT 1



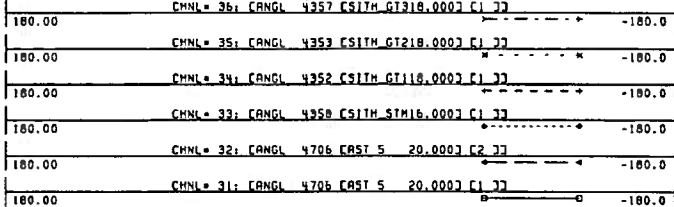
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2\RUN04A.OUT
CHNL= 18; CANGL 9520 CGLBOR 217.000 C2 JJ



FRI, MAR 31 2000 15:30
RUN D4A PLOT 3



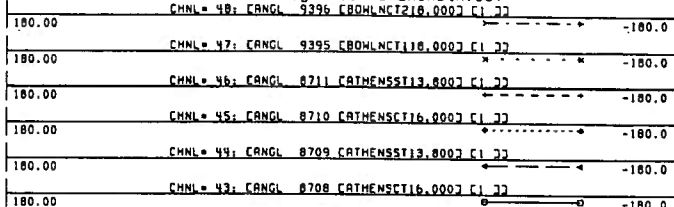
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT
CHNL = 35: CANGL 4353 CSITH GT18.0007 C1 JJ



FRI, MAR 31 2000 15:30
RUN D4A PLOT 6



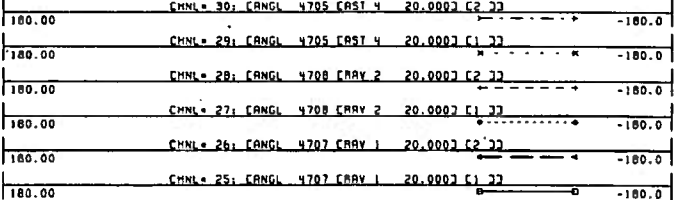
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT
CHNL = 48: CANGL 9395 CBOWLNCT18.0007 C1 JJ



FRI, MAR 31 2000 15:30
RUN D4A PLOT 8



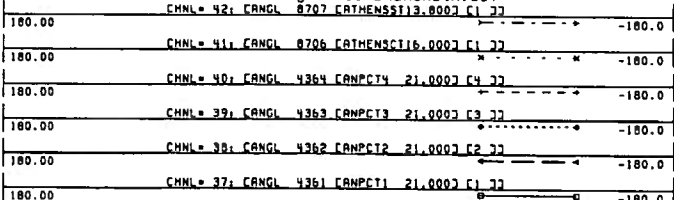
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT
CHNL = 39: CANGL 4705 CAST 4 20.0007 C2 JJ



FRI, MAR 31 2000 15:30
RUN D4A PLOT 5



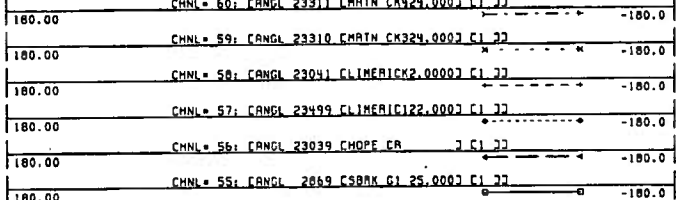
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT
CHNL = 42: CANGL 8707 CATHEMSST13.0007 C1 JJ



FRI, MAR 31 2000 15:30
RUN D4A PLOT 7



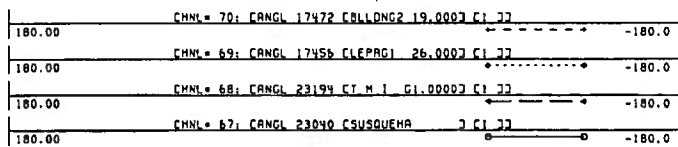
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT
CHNL = 60: CANGL 23311 CHATN CK424.0007 C1 JJ



FRI, MAR 31 2000 15:30
RUN 04A PLOT 10



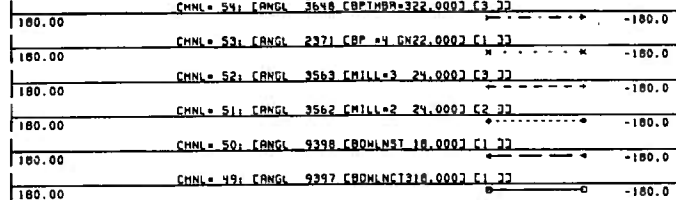
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT
CHNL = 70: CANGL 17472 CBLONG2 19.0007 C1 JJ



FRI, MAR 31 2000 15:30
RUN 04A PLOT 12



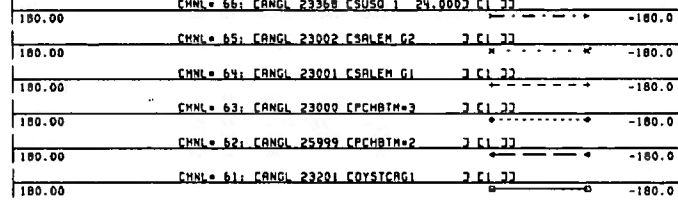
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT
CHNL = 54: CANGL 2648 CBP1H2A=322.0007 C3 JJ



FRI, MAR 31 2000 15:30
RUN 04A PLOT 9



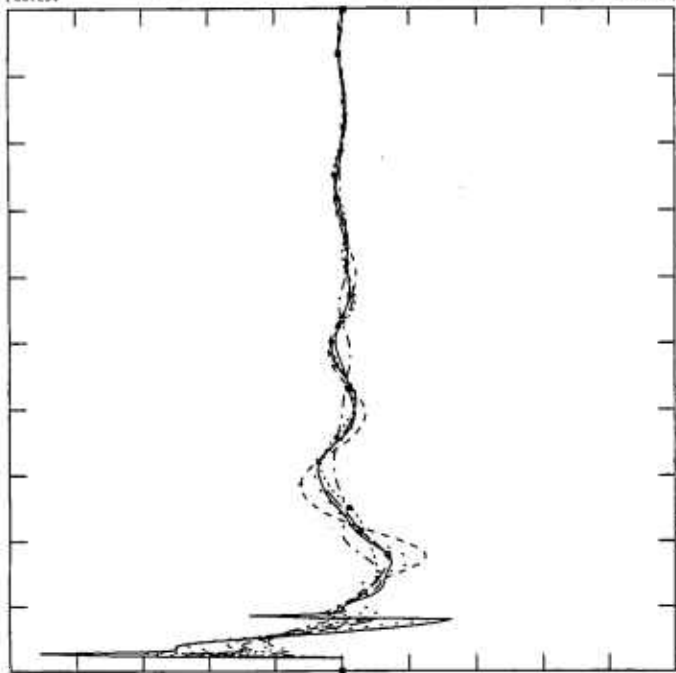
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 04A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT
CHNL = 66: CANGL 23358 CSUSO 1 24.0007 C1 JJ



FRI, MAR 31 2000 15:30
RUN 04A PLOT 11

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT
CHNL = 709: 60=11-CFREQ 23003 CALBURTI15500.0022)

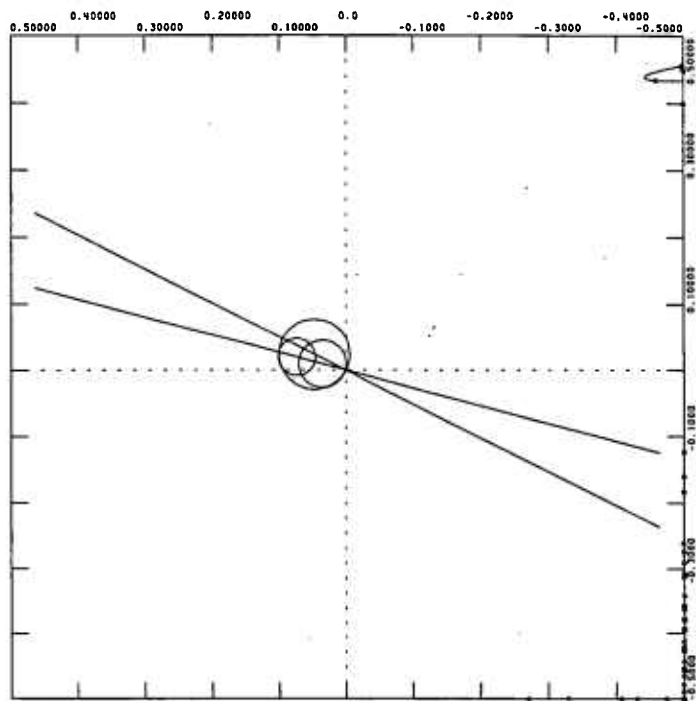
60.250 CHNL = 709: 60=11-CFREQ 4327 CFARACUT1345.0022) 59.750
60.250 CHNL = 709: 60=11-CFREQ 3105 CLONG MTH345.0022) 59.750
60.250 CHNL = 709: 60=11-CFREQ 9577 CMARCY765765.0022) 59.750
60.250 CHNL = 709: 60=11-CFREQ 5403 CFARAS345345.0022) 59.750
60.250 CHNL = 709: 60=11-CFREQ 4347 CARAMPO 345.0022) 59.750
60.250 CHNL = 709: 60=11-CFREQ 4347 CARAMPO 345.0022) 59.750



FRI, MAR 31 2000 15:30
RUN D4A PLOT 14

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT

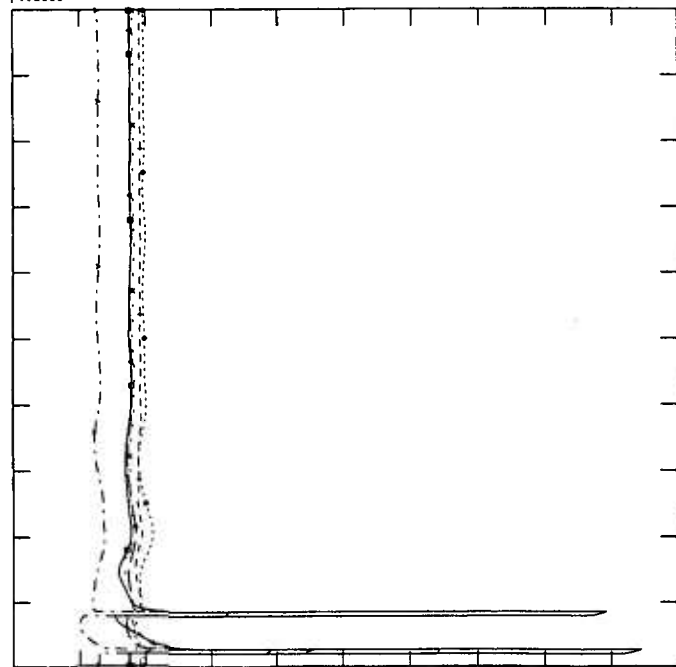
RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13



FRI, MAR 31 2000 15:30
RUN D4A PLOT 15

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT
CHNL = 651: CVOLT 23003 CALBURTI15500.0022)

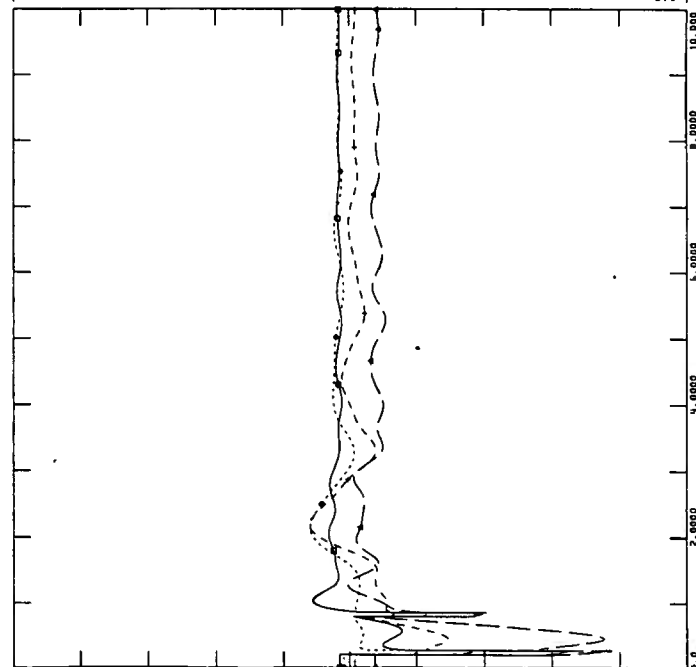
1.2000 CHNL = 508: CVOLT 4327 CFARACUT1345.0022) 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MTH345.0022) 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCY765765.0022) 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARAS345345.0022) 0.20000
1.2000 CHNL = 528: CVOLT 4347 CARAMPO 345.0022) 0.20000
1.2000 CHNL = 528: CVOLT 4347 CARAMPO 345.0022) 0.20000



FRI, MAR 31 2000 15:30
RUN D4A PLOT 16

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW2RUND4A.OUT

CHNL = 690: CMW TOTAL EAST2 0.0
CHNL = 689: CMW CENTRAL EAST2 0.0
CHNL = 688: CMW UPNY TO SENT2 1000.0
CHNL = 687: CMW UPNY TO CONED2 0.0



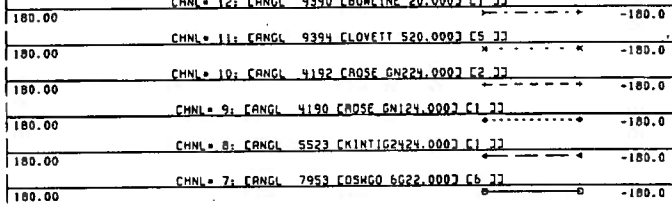
FRI, MAR 31 2000 15:30
RUN D4A PLOT 17

CONTINGENCY D4B

RECOVER FROM D1.SNP AND DW2.CNV
START OUTPUT DW2RUND4B.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



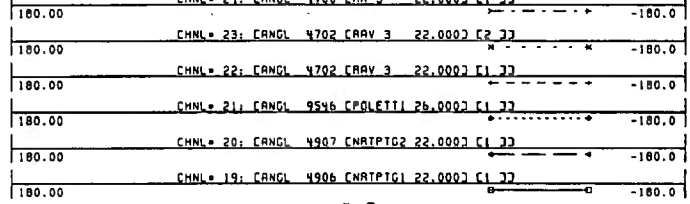
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 04B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2AUND4B.OUT
CHNL= 12: CANGL 9390 C80WLINE 20.0000 C1 JJ



FRI, MAR 31 2000 15:33
RUN 04B PLOT 2



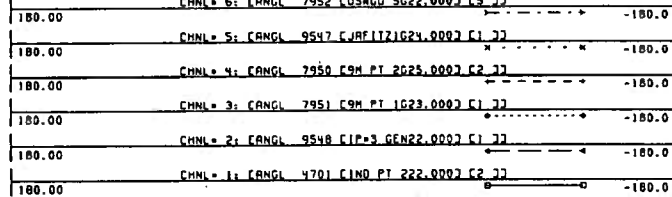
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 04B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2AUND4B.OUT
CHNL= 24: CANGL 4700 CAV 3 22.0000 C1 JJ



FRI, MAR 31 2000 15:33
RUN 04B PLOT 4



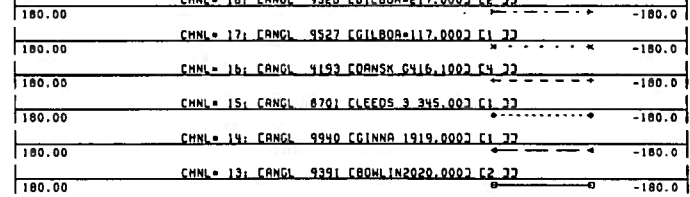
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 04B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2AUND4B.OUT
CHNL= 6: CANGL 7952 C05HGO 5022.0000 C5 JJ



FRI, MAR 31 2000 15:33
RUN 04B PLOT 1



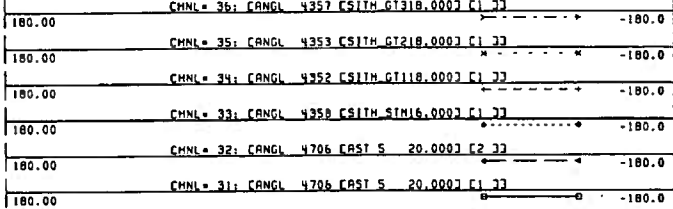
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 04B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2AUND4B.OUT
CHNL= 18: CANGL 9528 C01L00A 217.0000 C2 JJ



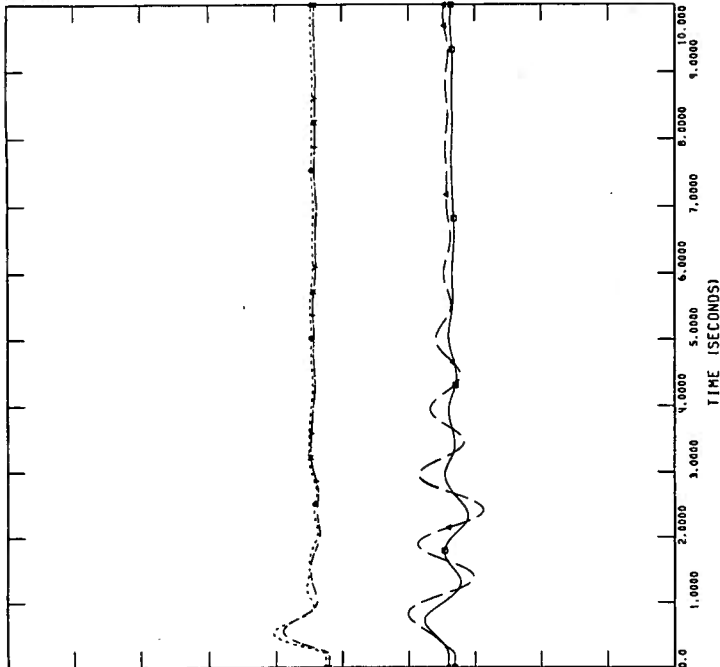
FRI, MAR 31 2000 15:33
RUN 04B PLOT 3



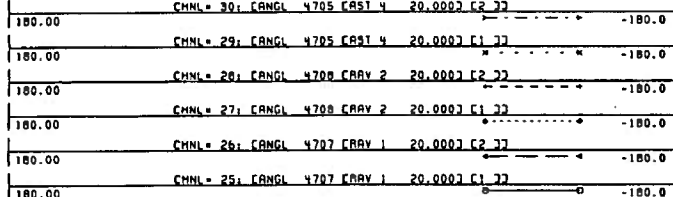
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2RUN048.OUT
CHNL = 35: CANGL 4353 CSITH G118.0007 C1 JJ



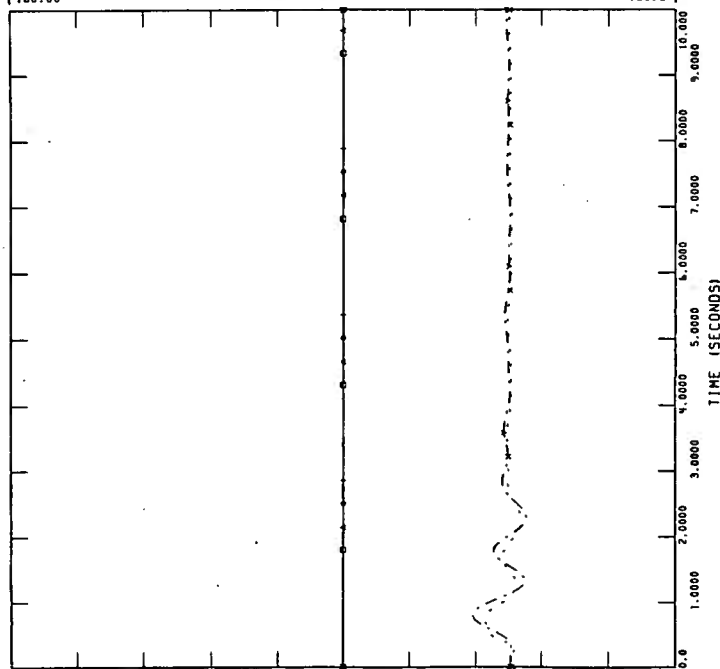
FRI, MAR 31 2000 15:33
RUN 048 PLOT 6



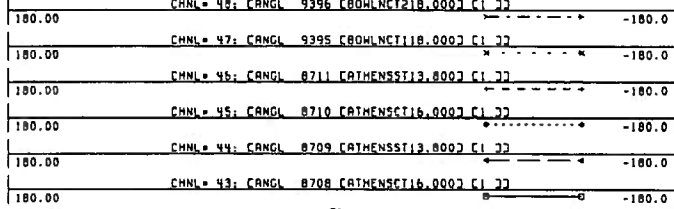
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2RUN048.OUT
CHNL = 30: CANGL 4705 CASI 4 20.0007 C2 JJ



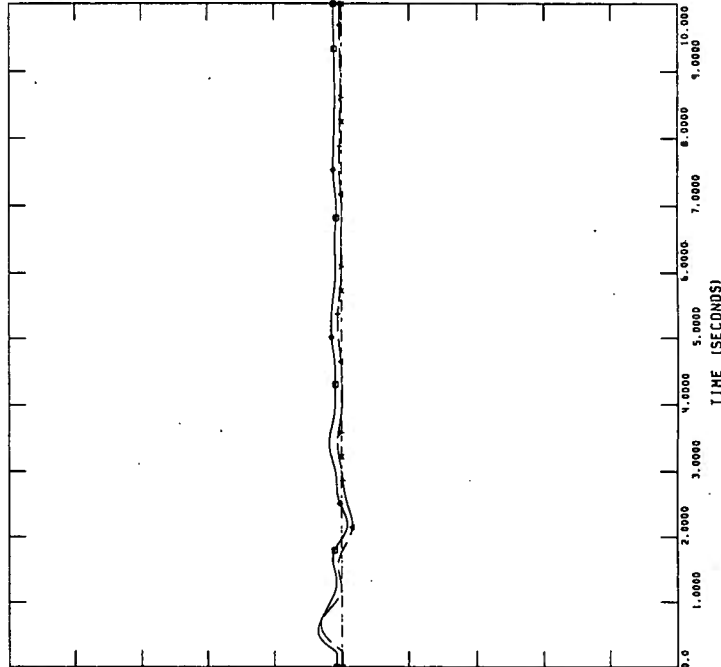
FRI, MAR 31 2000 15:33
RUN 048 PLOT 5



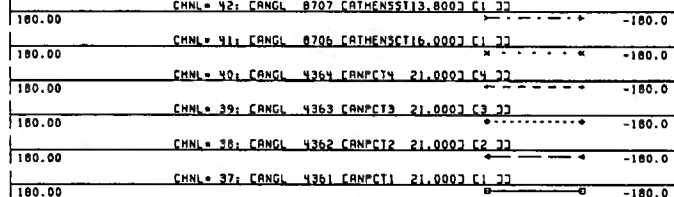
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2RUN048.OUT
CHNL = 48: CANGL 9395 CBOWLNCT118.0007 C1 JJ



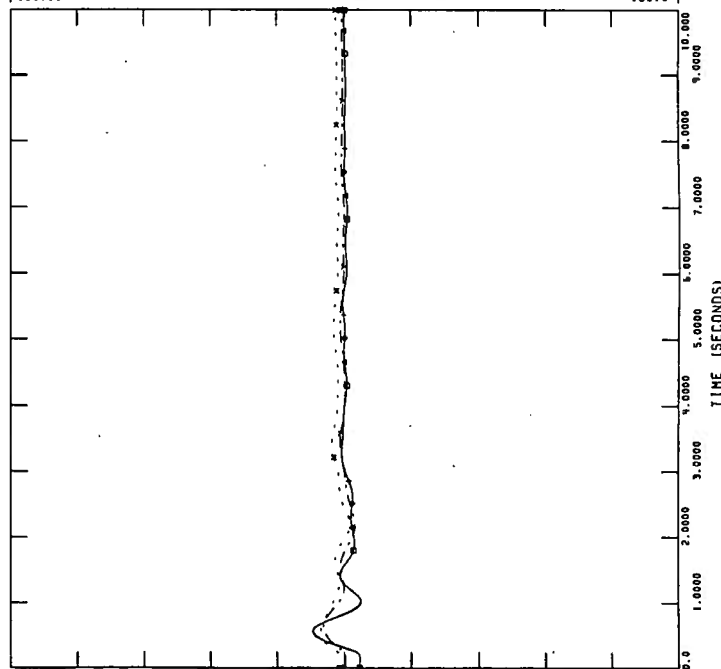
FRI, MAR 31 2000 15:33
RUN 048 PLOT 8



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2RUN048.OUT
CHNL = 42: CANGL 8707 CATHENSCT118.0007 C1 JJ

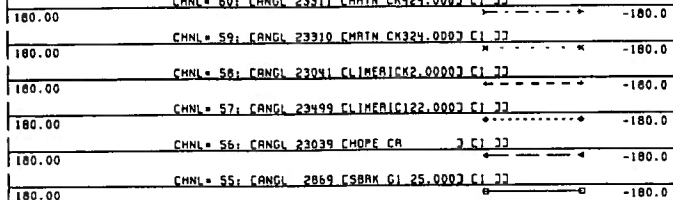


FRI, MAR 31 2000 15:33
RUN 048 PLOT 7





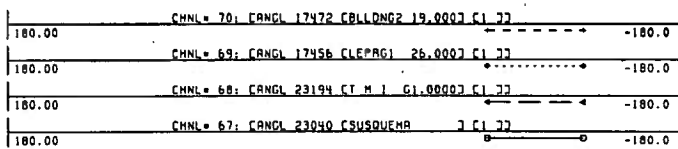
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2RUND4B.OUT
CHNL= 59: CANGL 23310 CMATN CK324.0000 C1 JJ



FRI, MAR 31 2000 15:33
RUN D4B PLOT 10



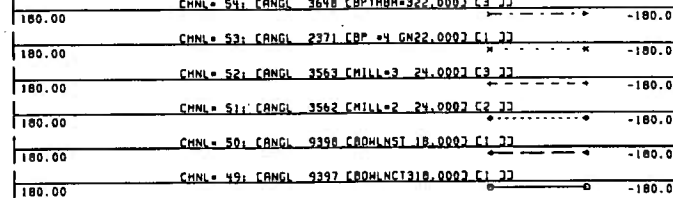
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2RUND4B.OUT



FRI, MAR 31 2000 15:33
RUN D4B PLOT 12



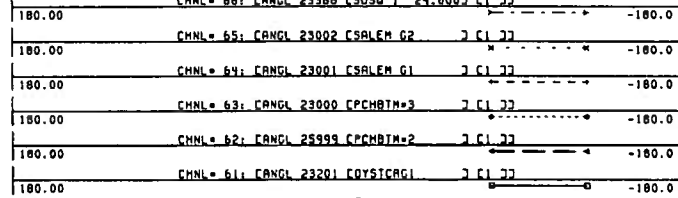
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2RUND4B.OUT
CHNL= 54: CANGL 3648 CP3HBA 322.0000 C3 JJ



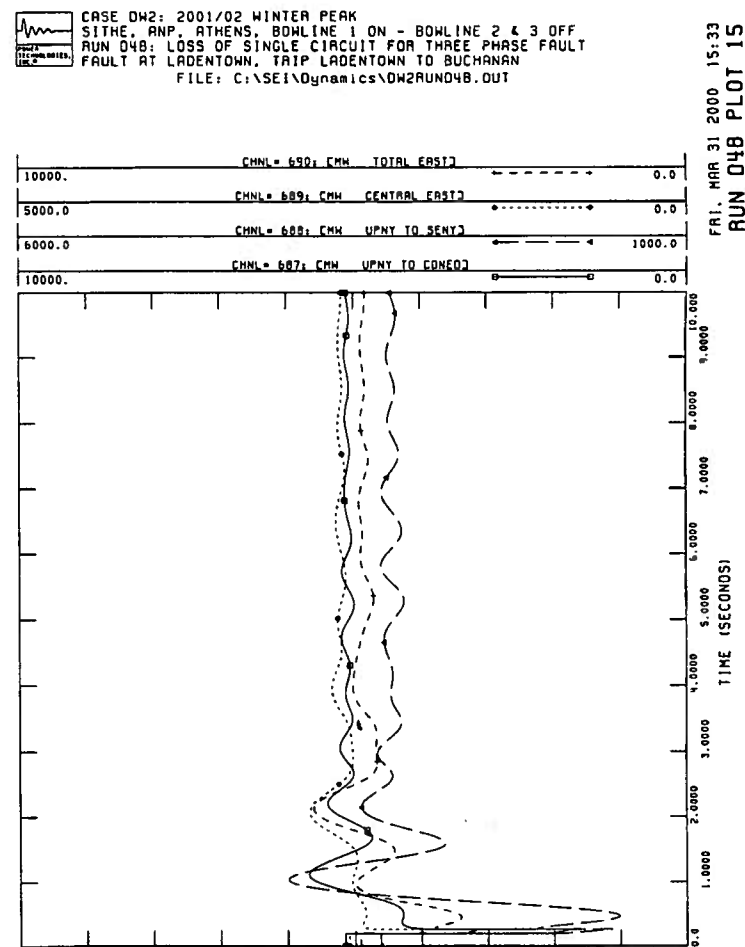
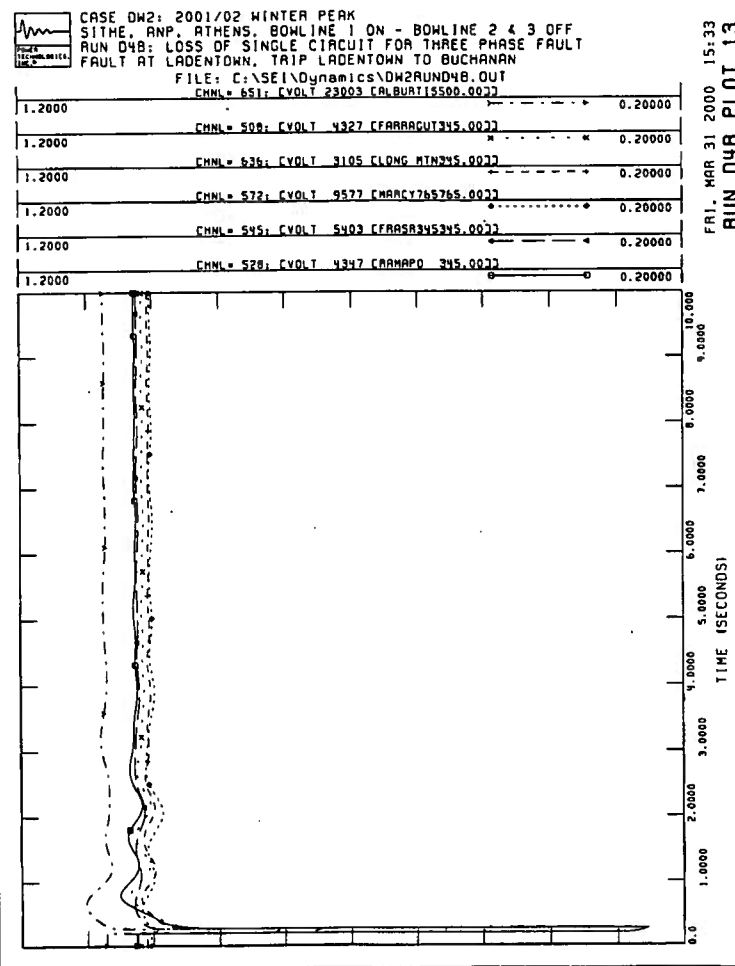
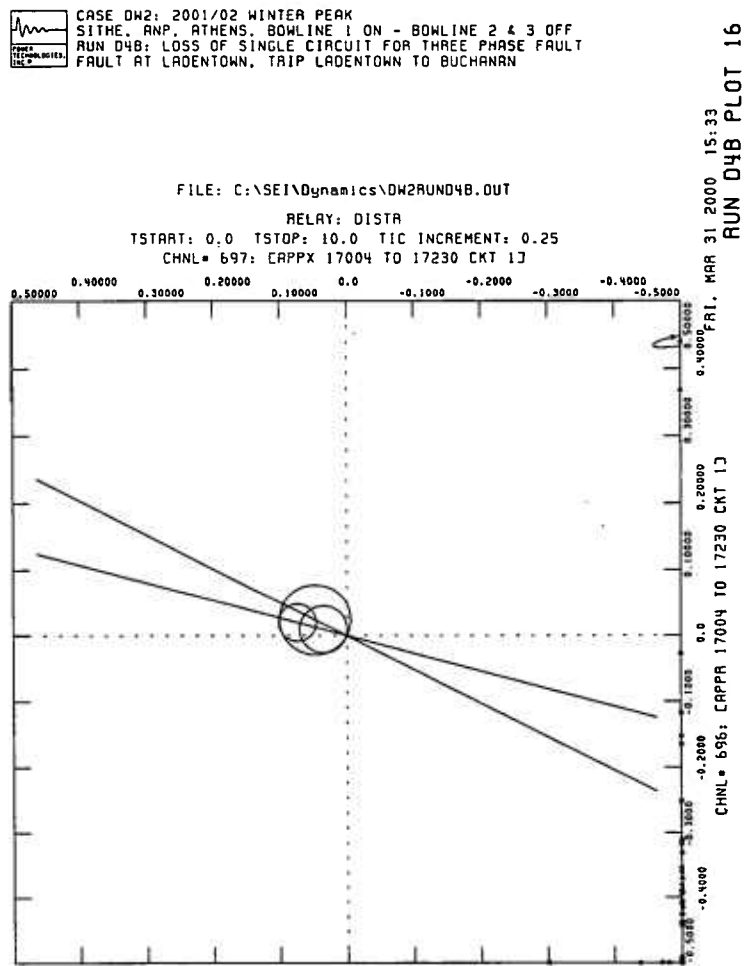
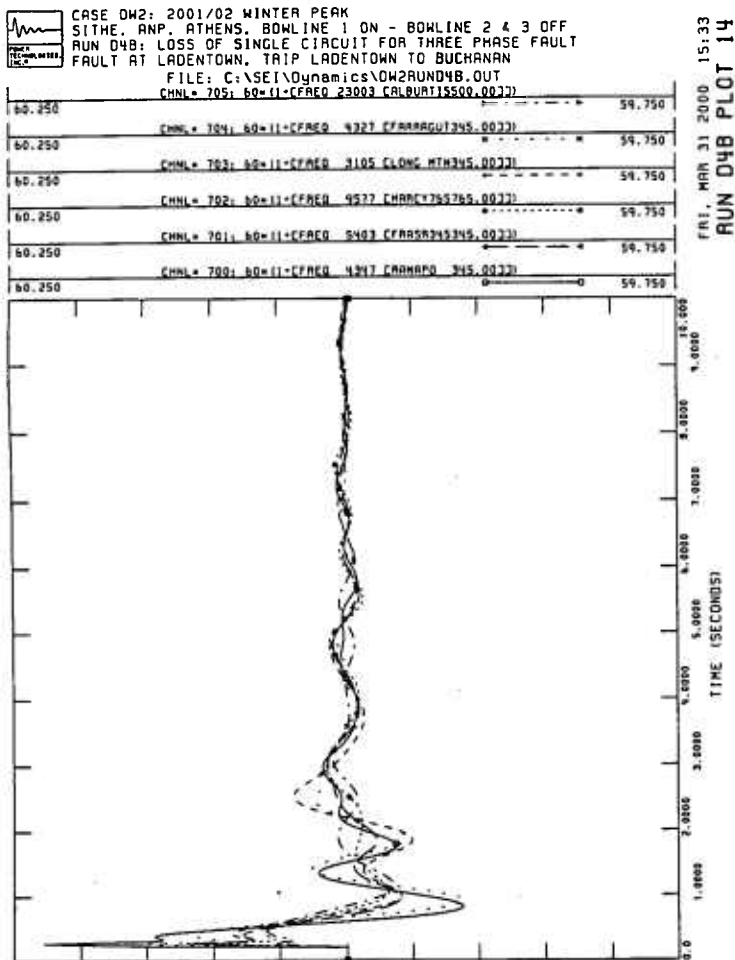
FRI, MAR 31 2000 15:33
RUN D4B PLOT 9



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW2RUND4B.OUT
CHNL= 66: CANGL 23360 CSUS0 24.0000 C1 JJ



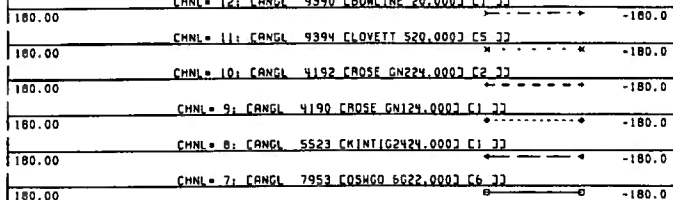
FRI, MAR 31 2000 15:33
RUN D4B PLOT 11



CONTINGENCY D4C

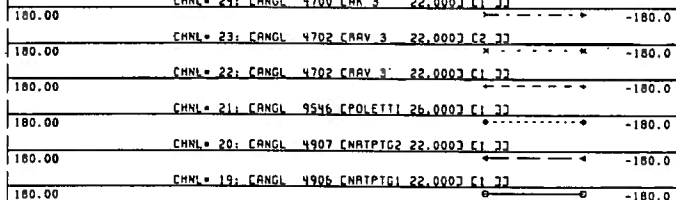
RECOVER FROM D1.SNP AND DW2.CNV
START OUTPUT DW2RUND4C.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4312 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN N
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4312 TO BUS 4317 CKT 1 / TRIP BUCHANAN-EASTVIEW
TRIP BRANCH FROM BUS 4317 TO BUS 4428 CKT 1 / TRIP EASTVIEW XFMR
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW2RUND4C.OUT
CHNL= 12: CANGL 9390 C80WLINE 20.0003 C1 JJ



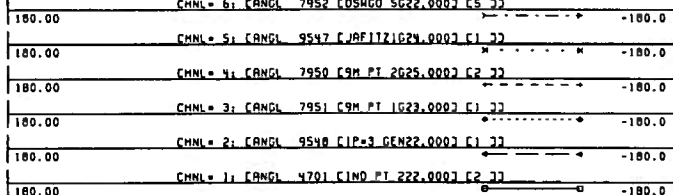
FRI, MAR 31 2000 15:33
RUN D4C PLOT 2

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW2RUND4C.OUT
CHNL= 24: CANGL 4700 CAR 3 22.0003 C1 JJ



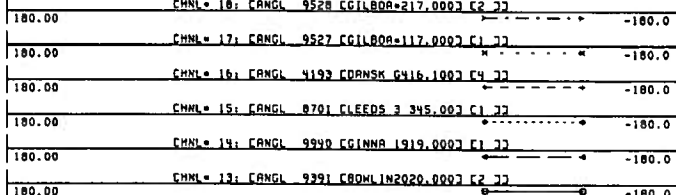
FRI, MAR 31 2000 15:33
RUN D4C PLOT 4

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW2RUND4C.OUT
CHNL= 6: CANGL 7952 C05H00 5622.0003 C5 JJ



FRI, MAR 31 2000 15:33
RUN D4C PLOT 1

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW2RUND4C.OUT
CHNL= 18: CANGL 9528 C01L80A=217.0003 C2 JJ

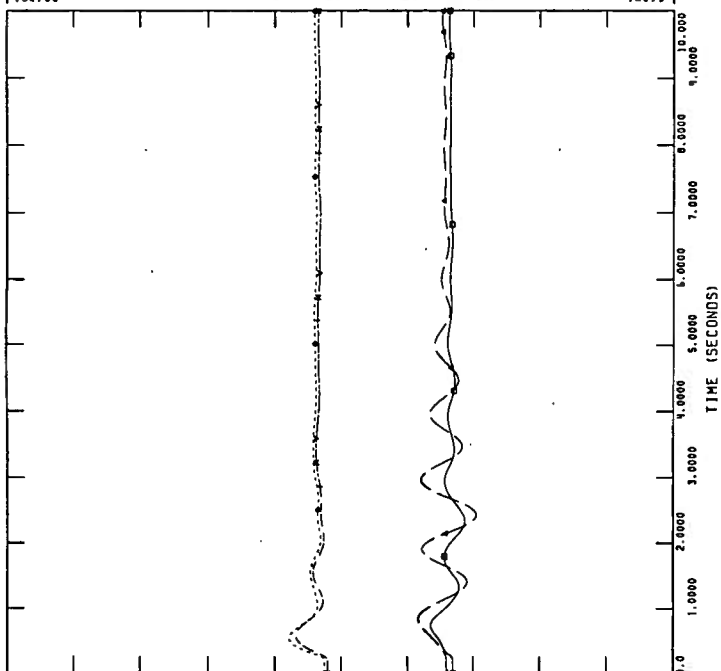


FRI, MAR 31 2000 15:33
RUN D4C PLOT 3



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW2RUND4C.OUT

180.00	CHNL = 36; CANGL 4357 CSITH GT18.0000 C1 JJ	-180.0
180.00	CHNL = 35; CANGL 4353 CSITH GT18.0000 C1 JJ	-180.0
180.00	CHNL = 34; CANGL 4352 CSITH GT18.0000 C1 JJ	-180.0
180.00	CHNL = 33; CANGL 4350 CSITH GT18.0000 C1 JJ	-180.0
180.00	CHNL = 32; CANGL 4706 CAST 5 20.0000 C2 JJ	-180.0
180.00	CHNL = 31; CANGL 4706 CAST 5 20.0000 C1 JJ	-180.0

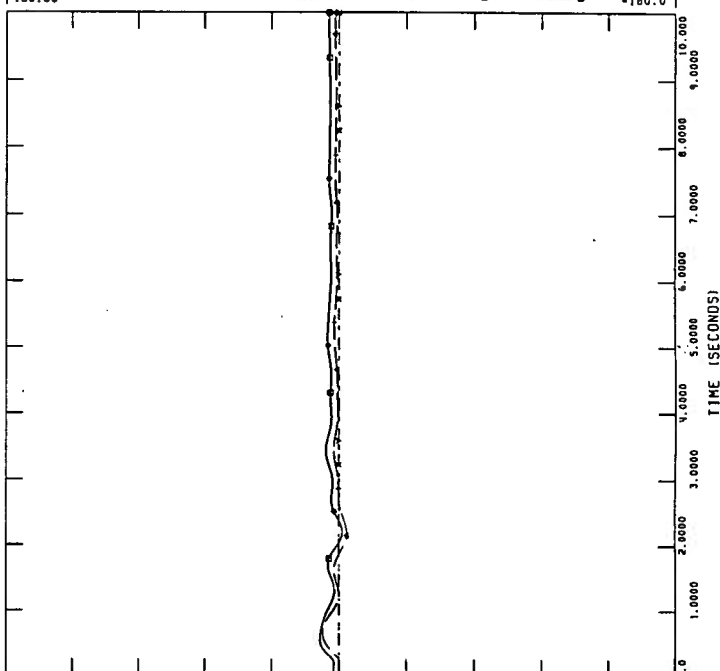


FRI, MAR 31 2000 15:33
RUN D4C PLOT 6



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW2RUND4C.OUT

180.00	CHNL = 48; CANGL 9398 CBOWLNGT18.0000 C1 JJ	-180.0
180.00	CHNL = 47; CANGL 9395 CBOWLNGT18.0000 C1 JJ	-180.0
180.00	CHNL = 46; CANGL 8711 CATHENSST13.8000 C1 JJ	-180.0
180.00	CHNL = 45; CANGL 8710 CATHENSST13.8000 C1 JJ	-180.0
180.00	CHNL = 44; CANGL 8709 CATHENSST13.8000 C1 JJ	-180.0
180.00	CHNL = 43; CANGL 8708 CATHENSST13.8000 C1 JJ	-180.0

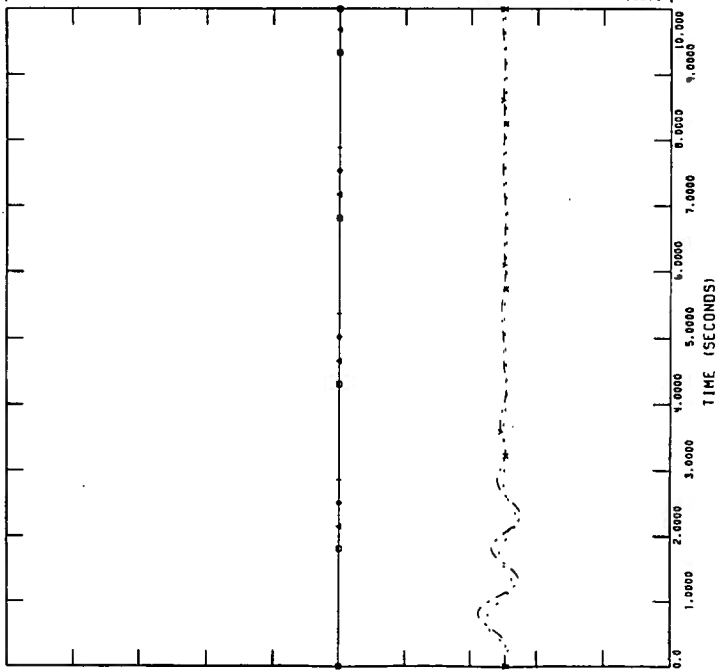


FRI, MAR 31 2000 15:33
RUN D4C PLOT 8



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW2RUND4C.OUT

180.00	CHNL = 30; CANGL 4705 CAST 4 20.0000 C1 JJ	-180.0
180.00	CHNL = 29; CANGL 4705 CAST 4 20.0000 C1 JJ	-180.0
180.00	CHNL = 28; CANGL 4708 CARY 2 20.0000 C2 JJ	-180.0
180.00	CHNL = 27; CANGL 4708 CARY 2 20.0000 C1 JJ	-180.0
180.00	CHNL = 26; CANGL 4707 CARY 1 20.0000 C2 JJ	-180.0
180.00	CHNL = 25; CANGL 4707 CARY 1 20.0000 C1 JJ	-180.0

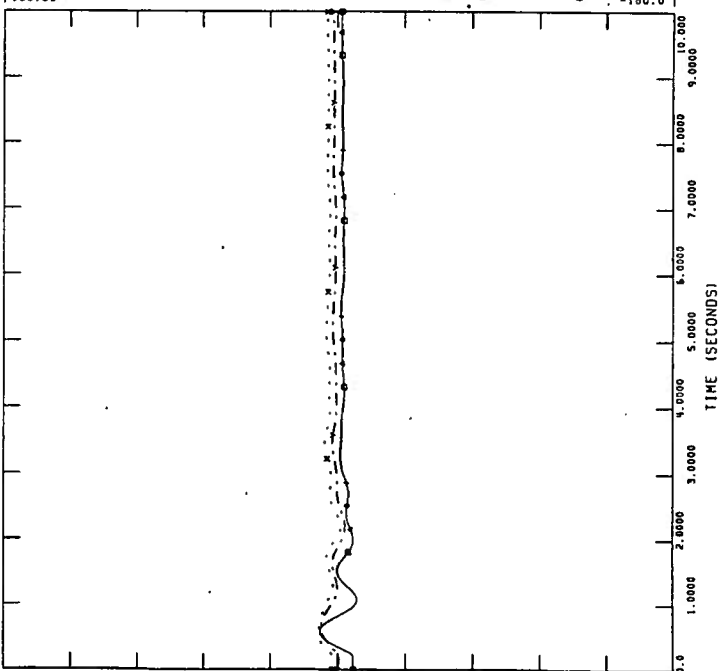


FRI, MAR 31 2000 15:33
RUN D4C PLOT 5



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW2RUND4C.OUT

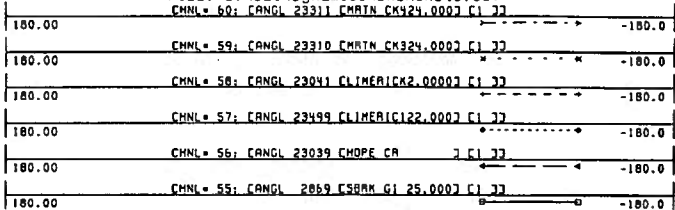
180.00	CHNL = 42; CANGL 8707 CATHENSST13.8000 C1 JJ	-180.0
180.00	CHNL = 41; CANGL 8706 CATHENSST13.8000 C1 JJ	-180.0
180.00	CHNL = 40; CANGL 4364 CANPCT4 21.0000 C4 JJ	-180.0
180.00	CHNL = 39; CANGL 4363 CANPCT3 21.0000 C3 JJ	-180.0
180.00	CHNL = 38; CANGL 4362 CANPCT2 21.0000 C2 JJ	-180.0
180.00	CHNL = 37; CANGL 4361 CANPCT1 21.0000 C1 JJ	-180.0



FRI, MAR 31 2000 15:33
RUN D4C PLOT 7

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

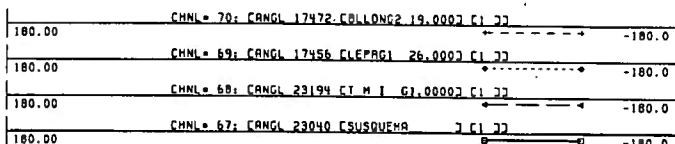
FILE: C:\SEI\Dynamic\DW2RUND4C.OUT
CHNL= 60: CANGL 23311 CMRTN CM324.0000 C1 JJ



FRI, MAR 31 2000 15:33
RUN D4C PLOT 10

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

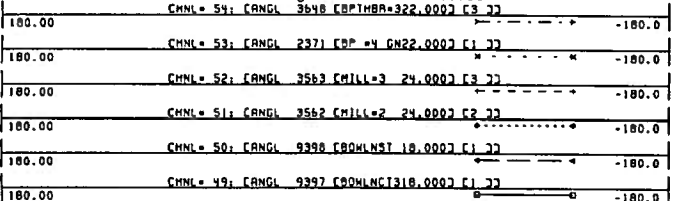
FILE: C:\SEI\Dynamic\DW2RUND4C.OUT



FRI, MAR 31 2000 15:33
RUN D4C PLOT 12

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

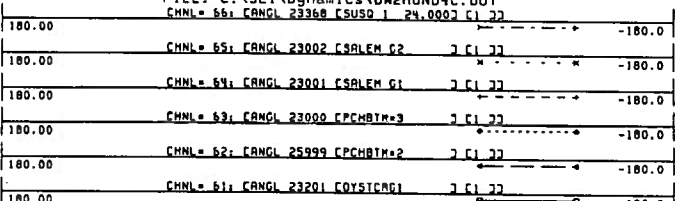
FILE: C:\SEI\Dynamic\DW2RUND4C.OUT
CHNL= 54: CANGL 3548 CBPTHBA=322.0000 C3 JJ



FRI, MAR 31 2000 15:33
RUN D4C PLOT 9

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DW2RUND4C.OUT
CHNL= 55: CANGL 23368 CSUSQ 1 24.0000 C1 JJ

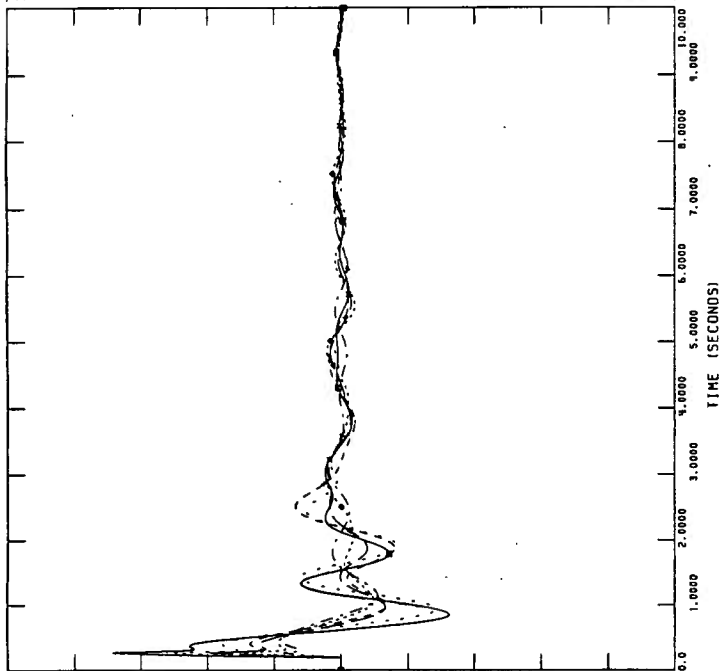


FRI, MAR 31 2000 15:33
RUN D4C PLOT 11

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamics\DW2RUND4C.OUT
CHNL = 704: 60-(1-CFREQ 4327 CFARAGUT345.0072)

60.250 59.750
CHNL = 703: 60-(1-CFREQ 3105 CLONG MTN345.0072)
60.250 59.750
CHNL = 702: 60-(1-CFREQ 9577 CHARC7765765.0072)
60.250 59.750
CHNL = 701: 60-(1-CFREQ 5403 CFARAS345345.0072)
60.250 59.750
CHNL = 700: 60-(1-CFREQ 4347 CARAMPO 345.0072)
60.250 59.750

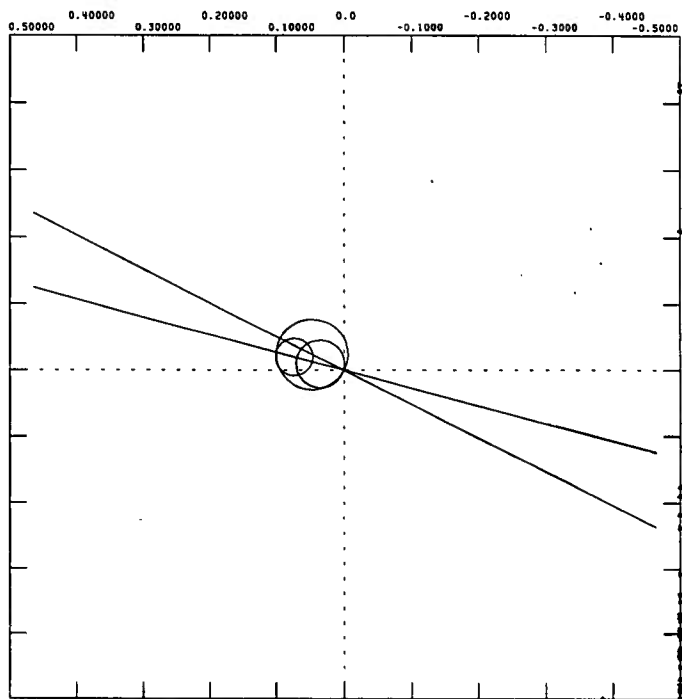


FRI, MAR 31 2000 15:33
RUN D4C PLOT 14

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamics\DW2RUND4C.OUT

RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

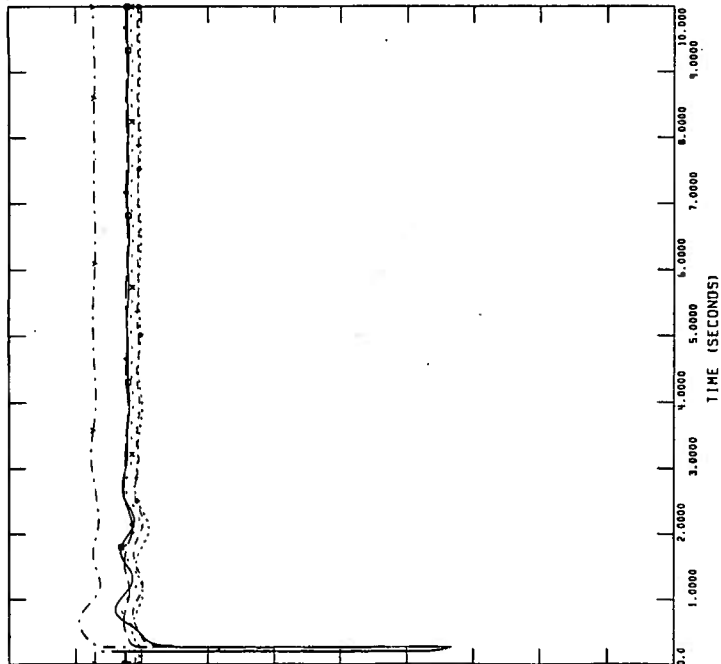


FRI, MAR 31 2000 15:33
RUN D4C PLOT 15

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamics\DW2RUND4C.OUT
CHNL = 651: CVOLT 23003 CALBUT15500.0072

1.2000 0.20000
CHNL = 508: CVOLT 4327 CFARAGUT345.0072
1.2000 0.20000
CHNL = 636: CVOLT 3105 CLONG MTN345.0072
1.2000 0.20000
CHNL = 572: CVOLT 9577 CHARC7765765.0072
1.2000 0.20000
CHNL = 545: CVOLT 5403 CFARAS345345.0072
1.2000 0.20000
CHNL = 528: CVOLT 4347 CARAMPO 345.0072
1.2000 0.20000

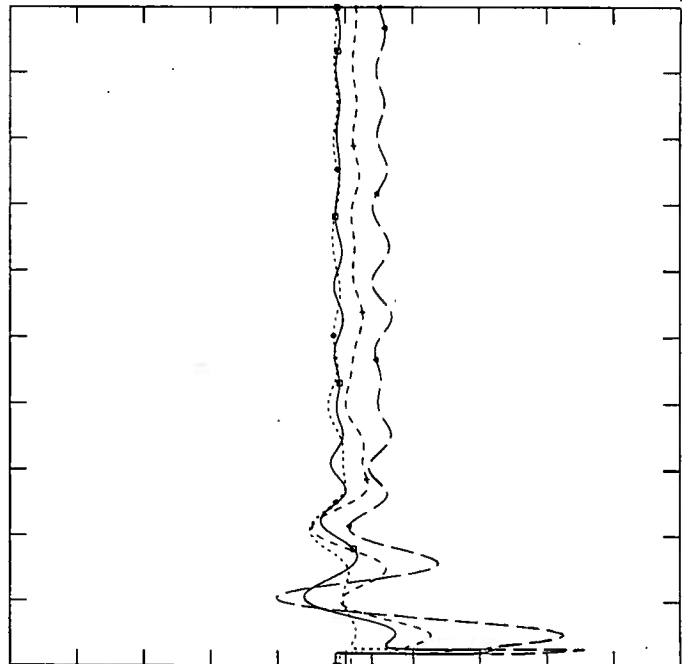


FRI, MAR 31 2000 15:33
RUN D4C PLOT 16

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamics\DW2RUND4C.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENY 1000.0
CHNL = 687: CMW UPNY TO CONED 0.0



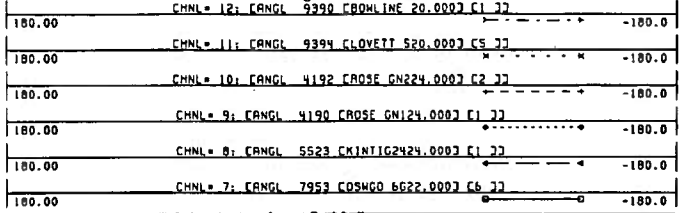
FRI, MAR 31 2000 15:33
RUN D4C PLOT 17

CONTINGENCY D5A

RECOVER FROM D1.SNP AND DW2.CNV
START OUTPUT DW2RUND5A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4313 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN S
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 1 / TRIP BUCHANAN S-MILLWOOD 1
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 2 / TRIP BUCHANAN S-MILLWOOD 2
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



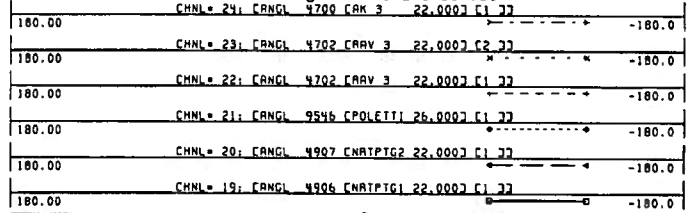
CASE DW2: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\dynamics\DW2AUND5A.OUT
CHNL = 12: CANGI 9390 CBOWLINE 20.0007 C1 JJ



FRI, MAR 31 2000 15:33
RUN DSA PLOT 2



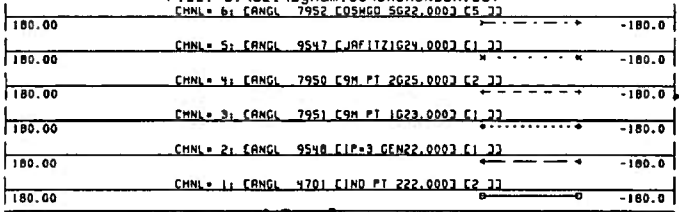
CASE DW2: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\dynamics\DW2AUND5A.OUT
CHNL = 23: CANGI 4702 CARV 3 22.0007 C2 JJ



FRI, MAR 31 2000 15:33
RUN DSA PLOT 4



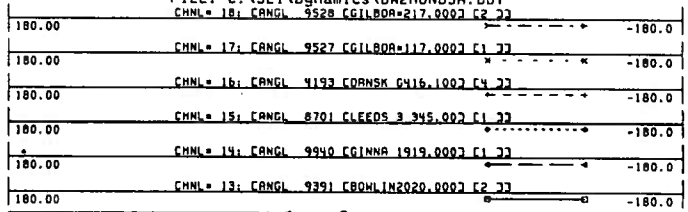
CASE DW2: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\dynamics\DW2AUND5A.OUT
CHNL = 6: CANGI 7952 COSMGO 6622.0007 C5 JJ



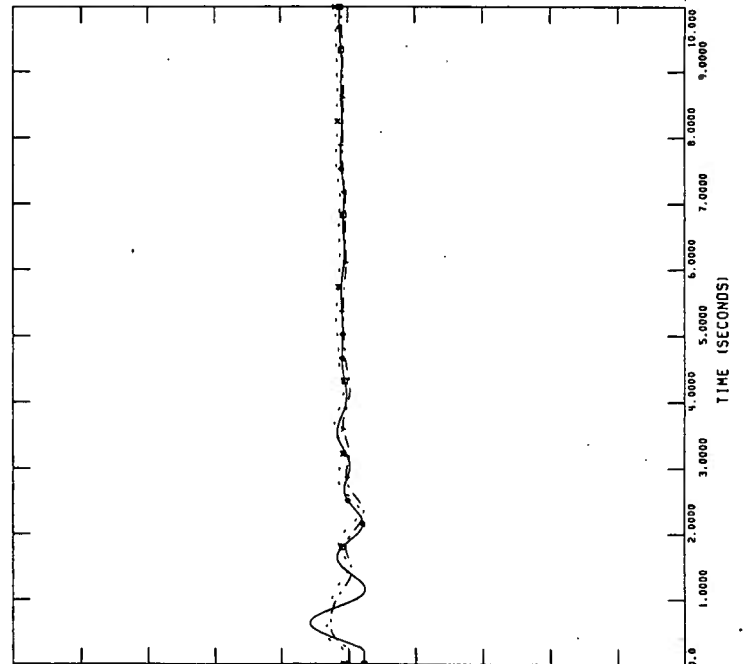
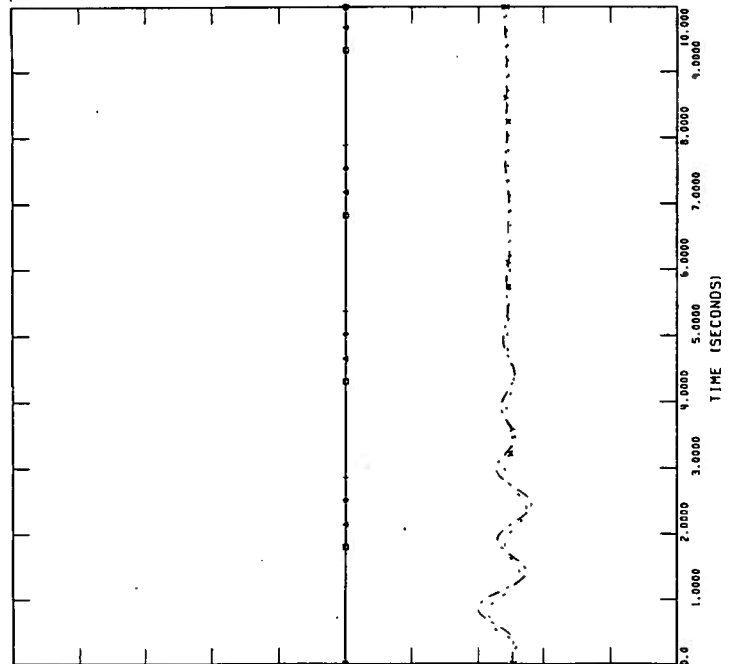
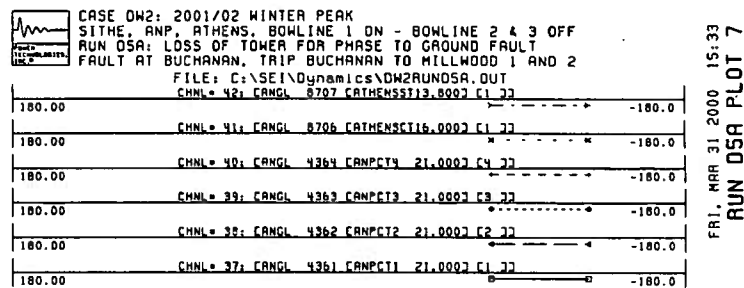
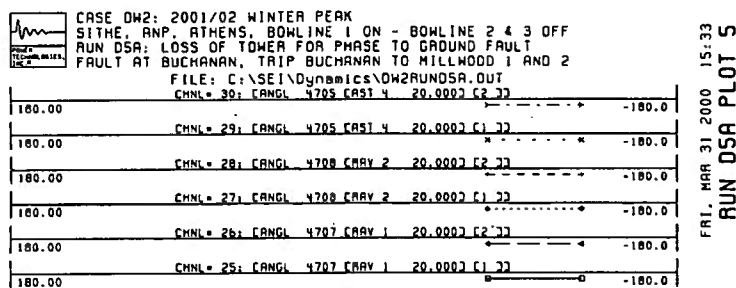
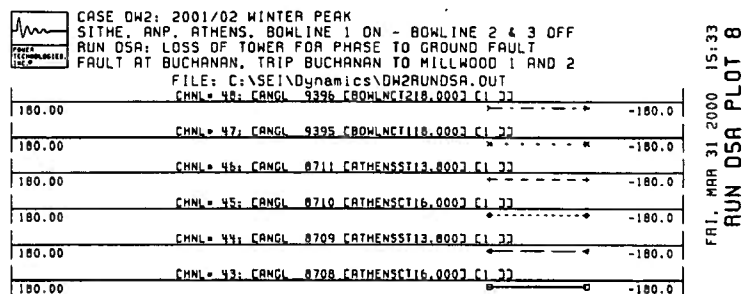
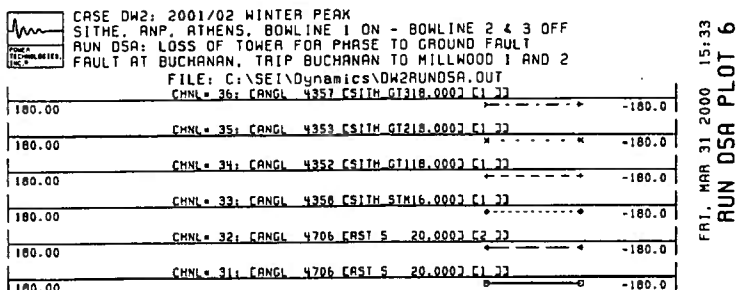
FRI, MAR 31 2000 15:33
RUN DSA PLOT 1



CASE DW2: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\dynamics\DW2AUND5A.OUT
CHNL = 18: CANGI 9528 CGILBDA217.0007 C2 JJ

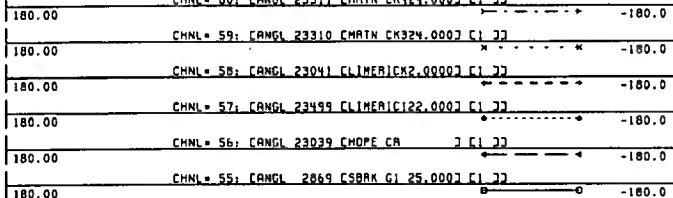


FRI, MAR 31 2000 15:33
RUN DSA PLOT 3





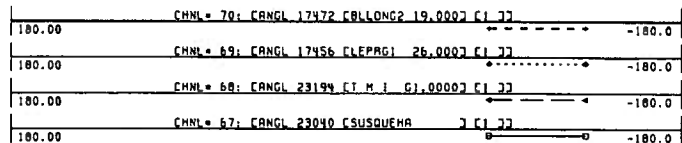
CASE DW2: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUNDSA.OUT
CHNL = 60: CANG1 23311 CMATN CK324.0000 C1 JJ



FRI, MAR 31 2000 15:33
RUN DSA PLOT 10



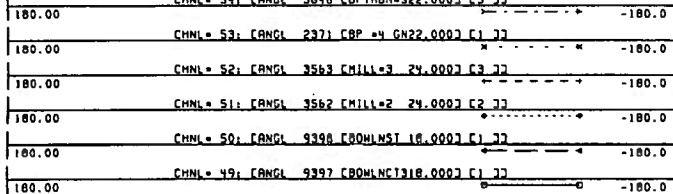
CASE DW2: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUNDSA.OUT



FRI, MAR 31 2000 15:33
RUN DSA PLOT 12



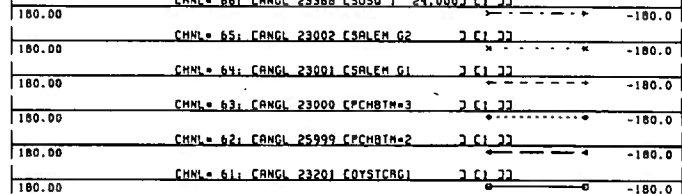
CASE DW2: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUNDSA.OUT
CHNL = 54: CANG1 3698 CPTMBA-322.0000 C3 JJ



FRI, MAR 31 2000 15:33
RUN DSA PLOT 9



CASE DW2: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUNDSA.OUT
CHNL = 66: CANG1 23366 CSUSO 1 24.0000 C1 JJ

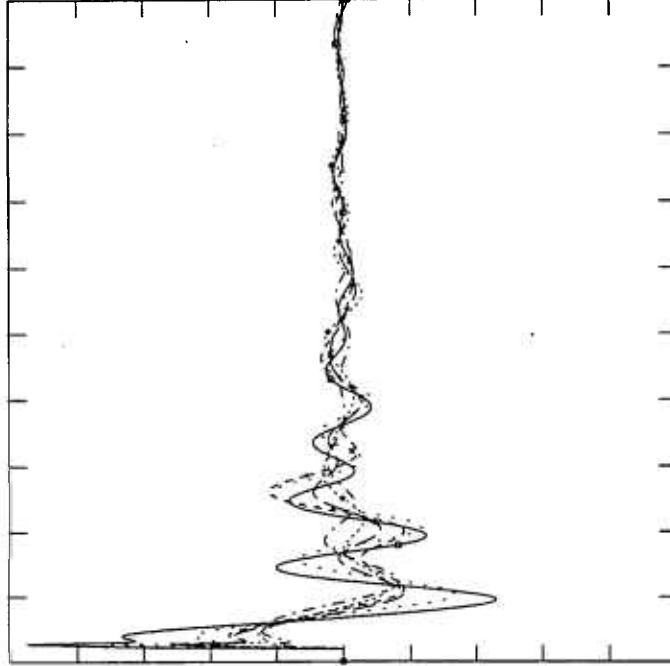


FRI, MAR 31 2000 15:33
RUN DSA PLOT 11



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUNDSA.OUT
CHNL = 705: 60=(1+CFREQ 23003 CALBURT15500.0077)

60.250	CHNL = 704: 60=(1+CFREQ 4327 CFARAGUT1345.0077)	59.750
60.250	CHNL = 703: 60=(1+CFREQ 3105 CLONG M1N345.0077)	59.750
60.250	CHNL = 702: 60=(1+CFREQ 9577 CMARCY765765.0077)	59.750
60.250	CHNL = 701: 60=(1+CFREQ 5403 CFARAS345345.0077)	59.750
60.250	CHNL = 700: 60=(1+CFREQ 4347 CARMARO 345.0077)	59.750

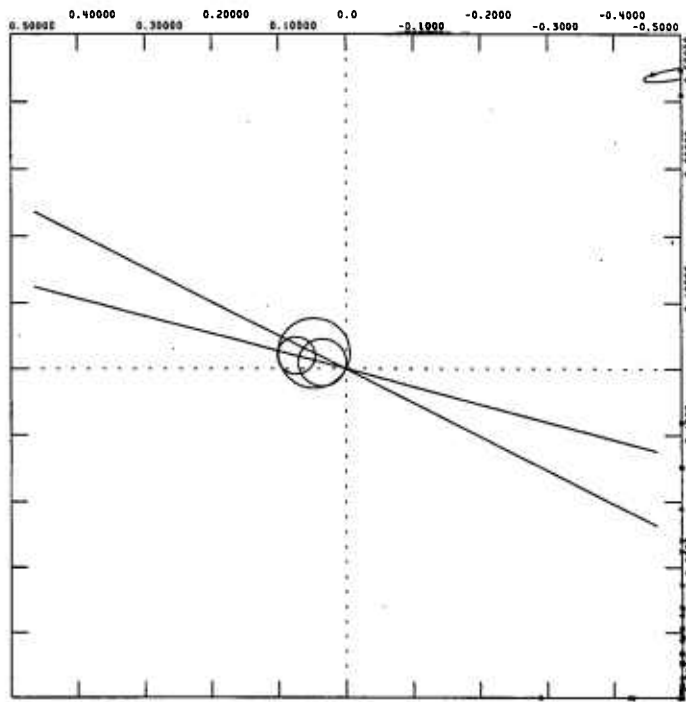


FRI, MAR 31 2000 15:33
RUN DSA PLOT 14



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUNDSA.OUT

RELAY: DISTR
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

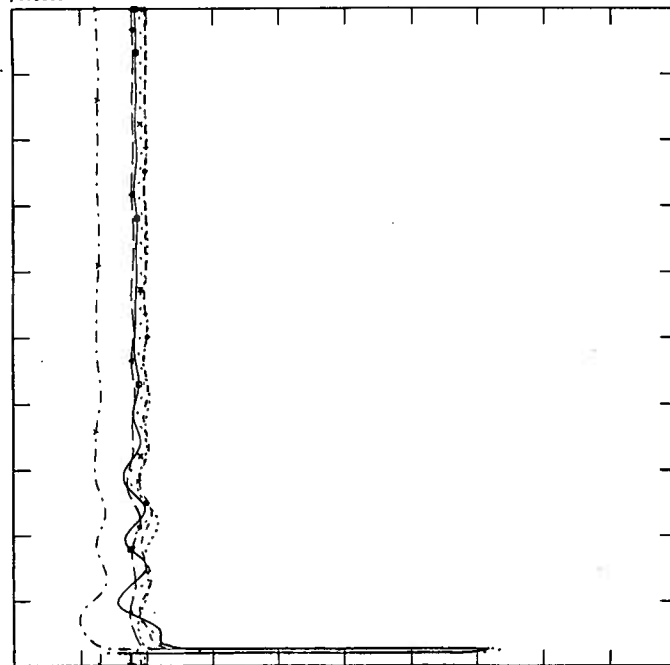


FRI, MAR 31 2000 15:33
RUN DSA PLOT 16



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUNDSA.OUT
CHNL = 651: CVOLT 23003 CALBURT15500.0077

1.2000	CHNL = 508: CVOLT 4327 CFARAGUT1345.0077	0.20000
1.2000	CHNL = 636: CVOLT 3105 CLONG M1N345.0077	0.20000
1.2000	CHNL = 572: CVOLT 9577 CMARCY765765.0077	0.20000
1.2000	CHNL = 545: CVOLT 5403 CFARAS345345.0077	0.20000
1.2000	CHNL = 528: CVOLT 4347 CARMARO 345.0077	0.20000

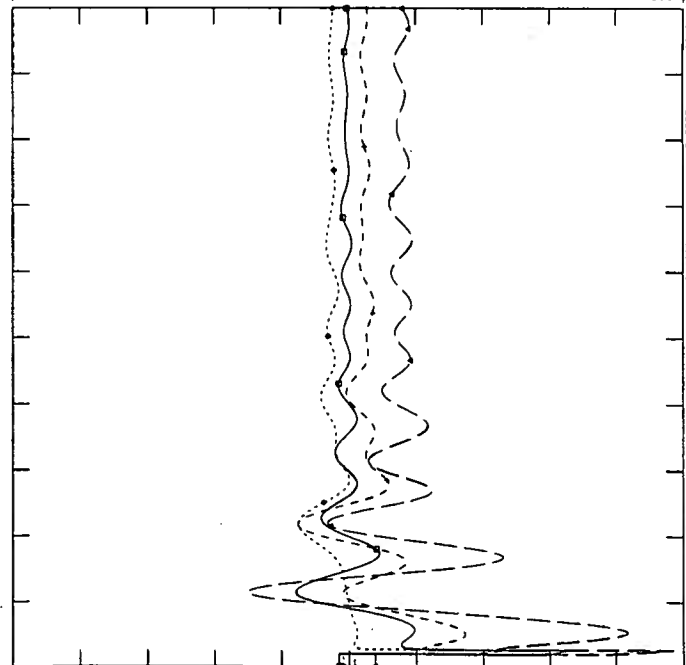


FRI, MAR 31 2000 15:33
RUN DSA PLOT 13



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW2RUNDSA.OUT

10000.	CHNL = 690: CMW TOTAL EAST	0.0
5000.0	CHNL = 689: CMW CENTRAL EAST	0.0
6000.0	CHNL = 688: CMW UPNY TO SENE	1000.0
10000.	CHNL = 687: CMW UPNY TO CONEQ	0.0



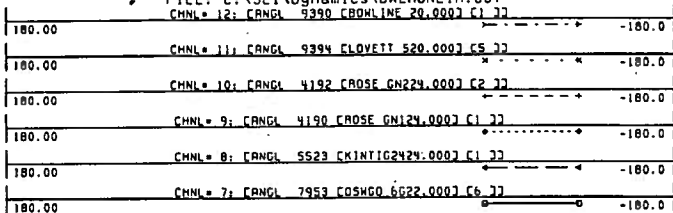
FRI, MAR 31 2000 15:33
RUN DSA PLOT 15

CONTINGENCY E1A

RECOVER FROM D1.SNP AND DW2.CNV
START OUTPUT DW2RUNE1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



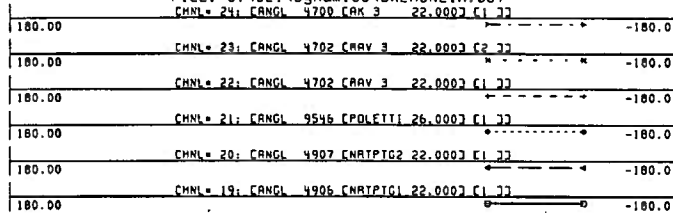
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DW2ARUNE1A.OUT
CHNL= 12: CANGL 9390 CROWLINE 20.0007 C1 JJ



FRI, MAR 31 2000 15:42
RUN E1A PLOT 2



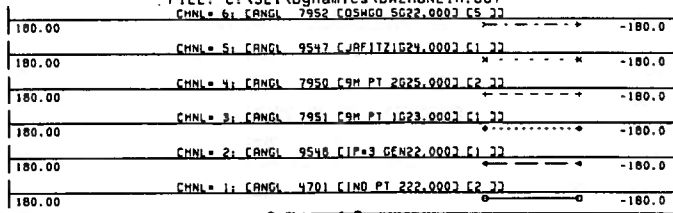
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DW2ARUNE1A.OUT
CHNL= 24: CANGL 4702 CARV 3 22.0007 C2 JJ



FRI, MAR 31 2000 15:42
RUN E1A PLOT 4



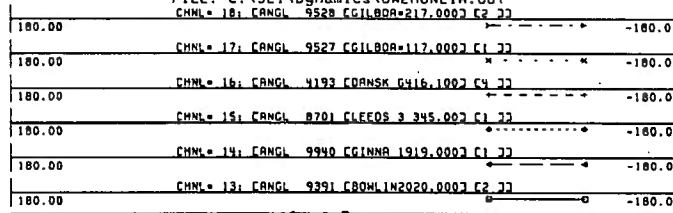
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DW2ARUNE1A.OUT
CHNL= 6: CANGL 7952 COSMGO 5022.0007 C5 JJ



FRI, MAR 31 2000 15:42
RUN E1A PLOT 1



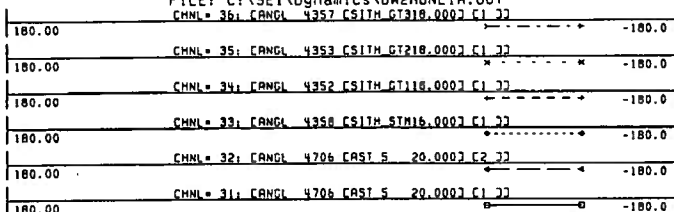
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LAONTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DW2ARUNE1A.OUT
CHNL= 18: CANGL 9528 CGILBDA=217.0007 C2 JJ



FRI, MAR 31 2000 15:42
RUN E1A PLOT 3



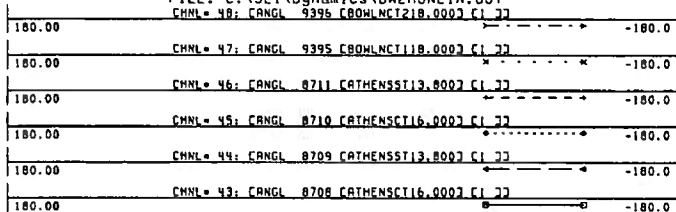
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW2AUNE1A.OUT
CHNL = 35; CANGL 4353 CSITH GT218.0000 C1 JJ



FRI, MAR 31 2000 15:42
RUN E1A PLOT 6



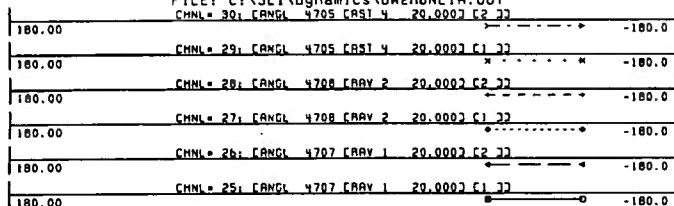
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW2AUNE1A.OUT
CHNL = 48; CANGL 9395 C80WLNCT18.0000 C1 JJ



FRI, MAR 31 2000 15:42
RUN E1A PLOT 8



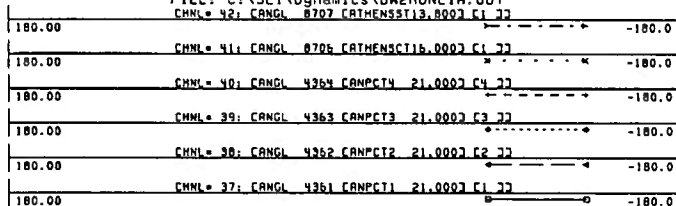
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW2AUNE1A.OUT
CHNL = 30; CANGL 4705 CASI 4 20.0000 C2 JJ



FRI, MAR 31 2000 15:42
RUN E1A PLOT 5



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW2AUNE1A.OUT
CHNL = 42; CANGL 8707 CATHENSST13.0000 C1 JJ

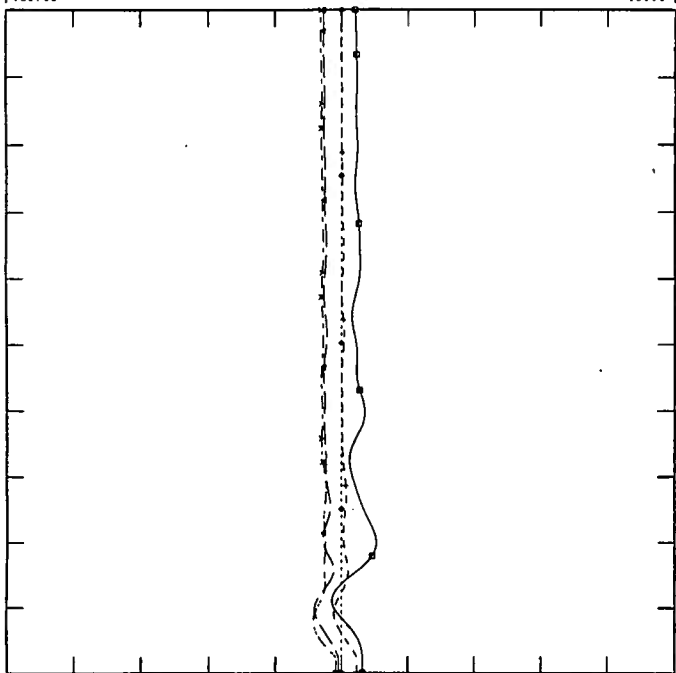


FRI, MAR 31 2000 15:42
RUN E1A PLOT 7



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DW2RUNE1A.OUT

CHNL = 50; CANGL 23311 CHAIN CM424.0002 C1 JJ
CHNL = 59; CANGL 23310 CHAIN CM324.0002 C1 JJ
CHNL = 58; CANGL 23041 CLIMERIC2.00002 C1 JJ
CHNL = 57; CANGL 23499 CLIMERIC122.0002 C1 JJ
CHNL = 56; CANGL 23039 CHOPE CA J C1 JJ
CHNL = 55; CANGL 2069 CSRAK G1 25.0002 C1 JJ

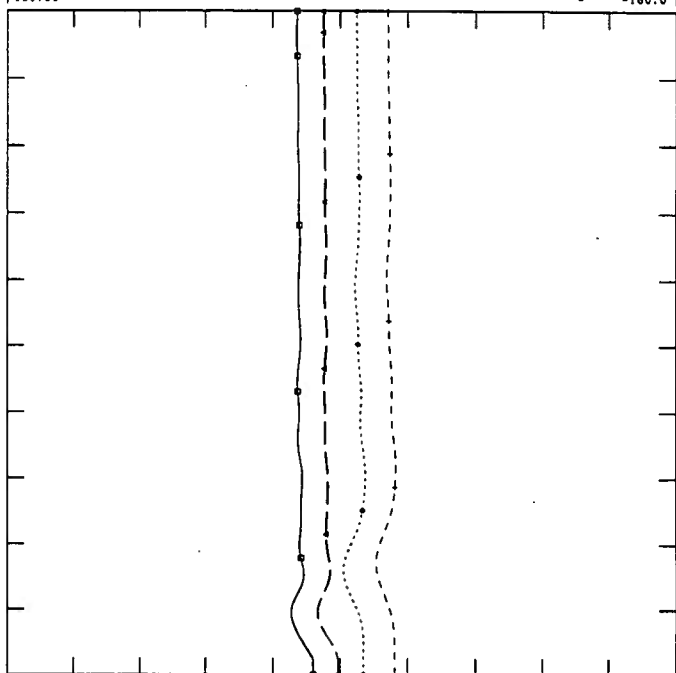


FRI, MAR 31 2000 15:42
RUN E1A PLOT 10



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DW2RUNE1A.OUT

CHNL = 70; CANGL 17472 CALLONG2 19.0002 C1 JJ
CHNL = 69; CANGL 17456 CLEPAG1 26.0002 C1 JJ
CHNL = 68; CANGL 23194 CT M1 G1.00002 C1 JJ
CHNL = 67; CANGL 23040 CSUSQUEHA J C1 JJ

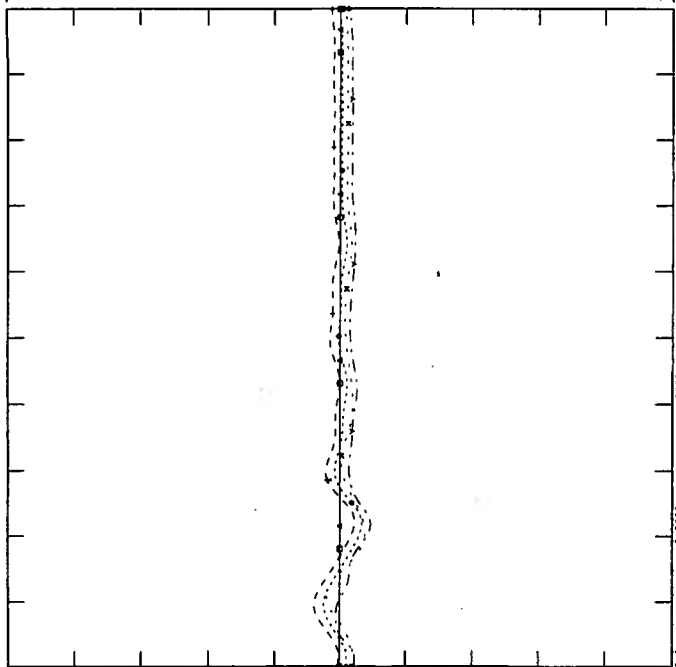


FRI, MAR 31 2000 15:42
RUN E1A PLOT 12



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DW2RUNE1A.OUT

CHNL = 54; CANGL 3648 CPIMBA322.0002 C3 JJ
CHNL = 53; CANGL 2371 CAP-4 CM22.0002 C1 JJ
CHNL = 52; CANGL 3563 CM11-3 24.0002 C3 JJ
CHNL = 51; CANGL 3562 CM11-2 24.0002 C2 JJ
CHNL = 50; CANGL 9398 CBOWLNST 18.0002 C1 JJ
CHNL = 49; CANGL 9397 CBOWLNCT318.0002 C1 JJ

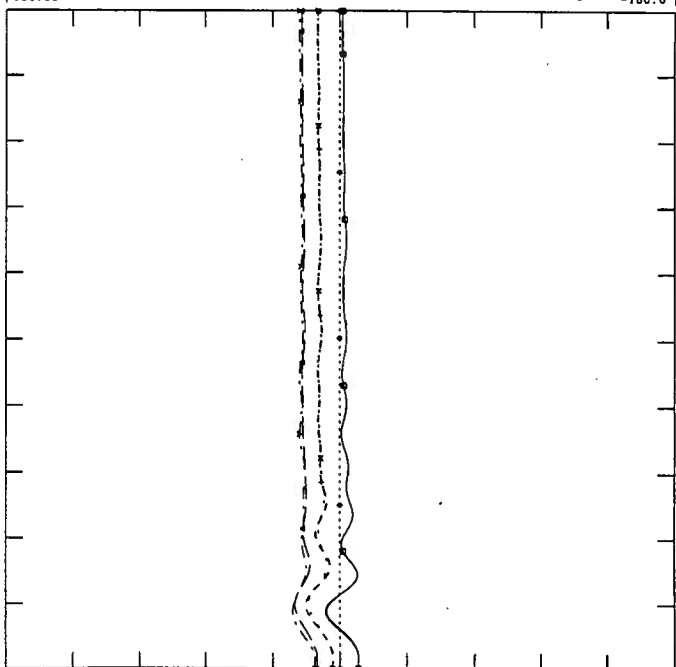


FRI, MAR 31 2000 15:42
RUN E1A PLOT 9



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-ARMAPO
FILE: C:\SEI\Dynamic\DW2RUNE1A.OUT

CHNL = 65; CANGL 23002 CSALEM G2 J C1 JJ
CHNL = 64; CANGL 23001 CSALEM G1 J C1 JJ
CHNL = 63; CANGL 23000 CPCHBTH-3 J C1 JJ
CHNL = 62; CANGL 25999 CPCHBTH-2 J C1 JJ
CHNL = 61; CANGL 23201 COYSTERC1 J C1 JJ

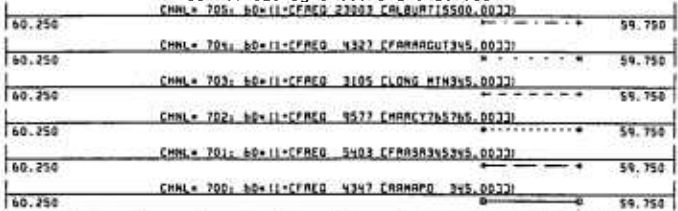


FRI, MAR 31 2000 15:42
RUN E1A PLOT 11



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO

FILE: C:\SEI\Dynamic\DW2RUNE1A.OUT
CHNL= 705: 60+11-CFREQ 23003 CALBUNT15500.0077



FRI, MAR 31 2000 15:42
RUN E1A PLOT 14

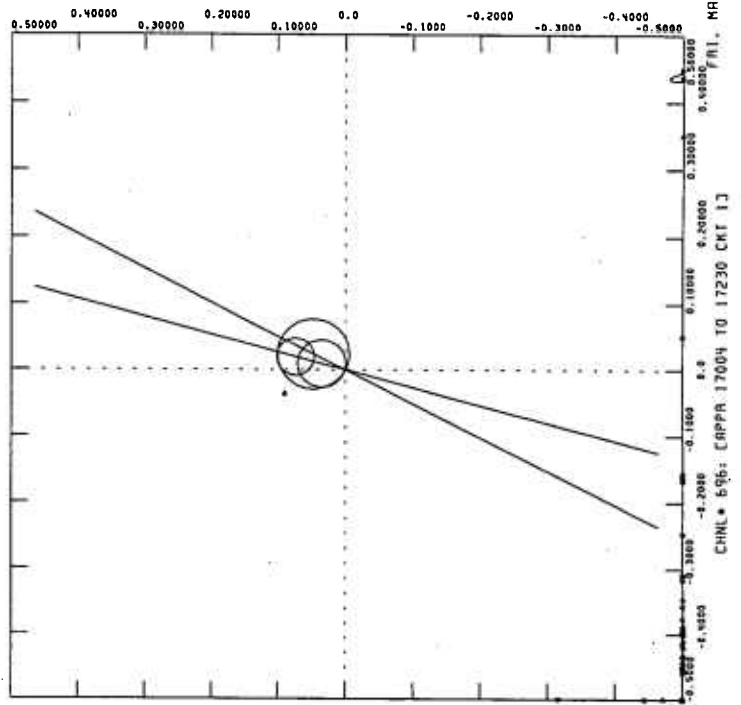


CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO

FILE: C:\SEI\Dynamic\DW2RUNE1A.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL= 697: CAPPX 17004 TO 17230 CKT 13

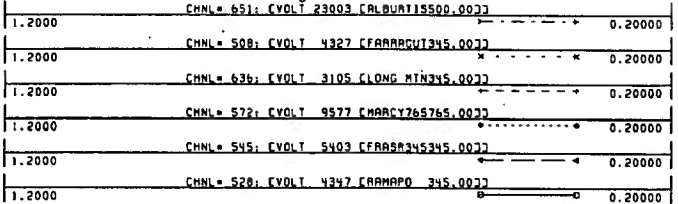


FRI, MAR 31 2000 15:42
RUN E1A PLOT 15



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO

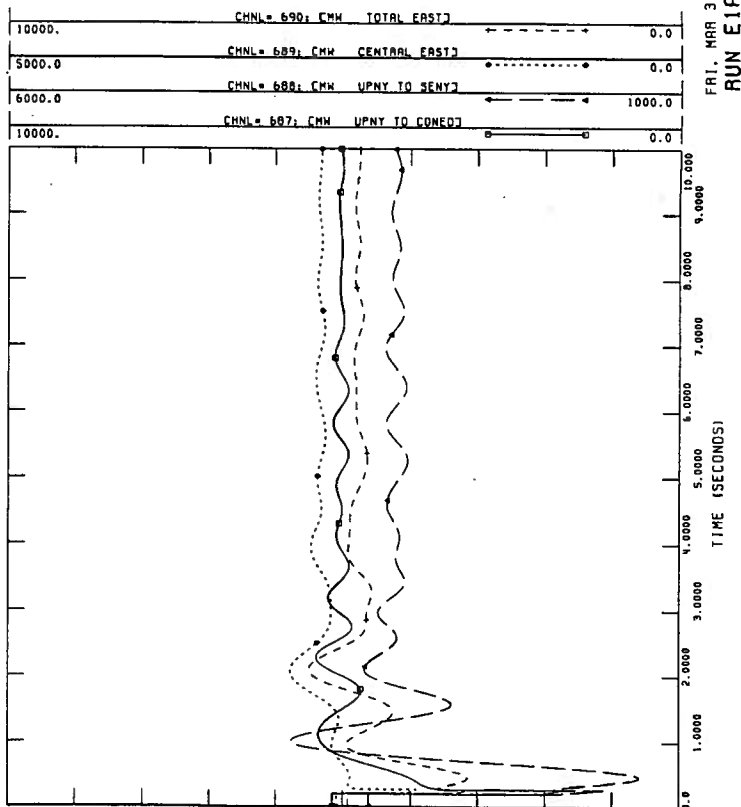
FILE: C:\SEI\Dynamic\DW2RUNE1A.OUT
CHNL= 651: CVOLT 23003 CALBUNT15500.0077



FRI, MAR 31 2000 15:42
RUN E1A PLOT 13



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW2RUNE1A.OUT



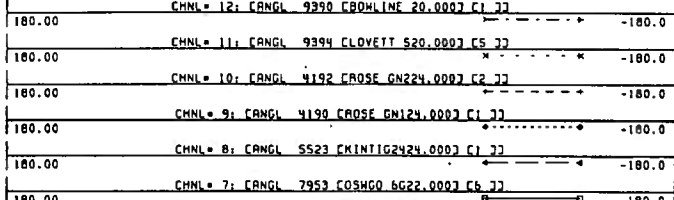
FRI, MAR 31 2000 15:42
RUN E1A PLOT 16

CONTINGENCY E2A

```
RECOVER FROM D1.SNP AND DW2.CNV
START OUTPUT DW2RUNE2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DISCONNECT BUS 4347 / DISCONNECT RAMAPO SUBSTATION
DROP GENERATOR 1 AT BUS 4352 / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4353 / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4357 / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4358 / TRIP SITHE ST
DROP GENERATOR 1 AT BUS 4361 / TRIP ANP CT
DROP GENERATOR 2 AT BUS 4362 / TRIP ANP CT
DROP GENERATOR 3 AT BUS 4363 / TRIP ANP CT
DROP GENERATOR 4 AT BUS 4364 / TRIP ANP ST
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3
```

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

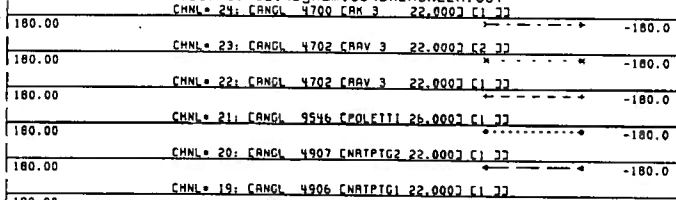
FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
CHNL = 12: CANGL 9350 CROSLINE 20.0007 C1 JJ



FRI, MAR 31 2000 15:42
RUN E2A PLOT 2

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

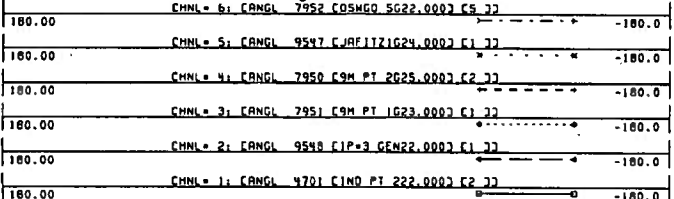
FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
CHNL = 23: CANGL 4702 CARY 3 22.0007 C2 JJ



FRI, MAR 31 2000 15:42
RUN E2A PLOT 4

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

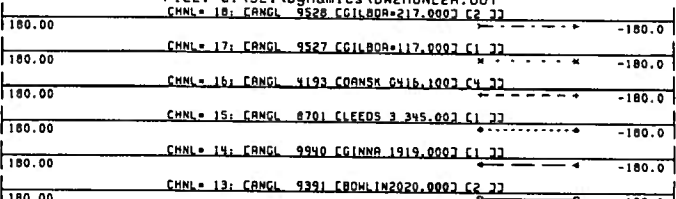
FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
CHNL = 6: CANGL 7952 COSHGO 5622.0007 C5 JJ



FRI, MAR 31 2000 15:42
RUN E2A PLOT 1

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

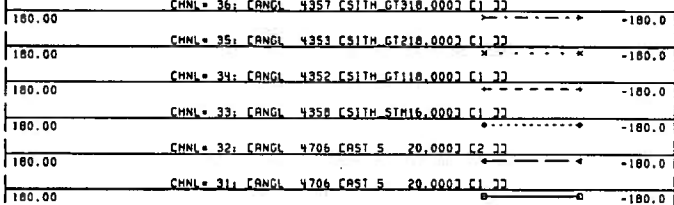
FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
CHNL = 18: CANGL 9528 CGILBDA 217.0007 C2 JJ



FRI, MAR 31 2000 15:42
RUN E2A PLOT 3

CASE DW2: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

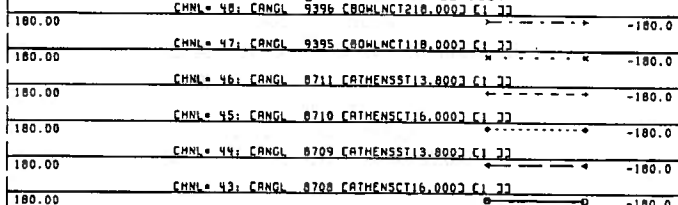
FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
 CHNL = 36: CANGL 4357 CSITH GT218.0007 C1 JJ



FRI, MAR 31 2000 15:42
 RUN E2A PLOT 6

CASE DW2: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

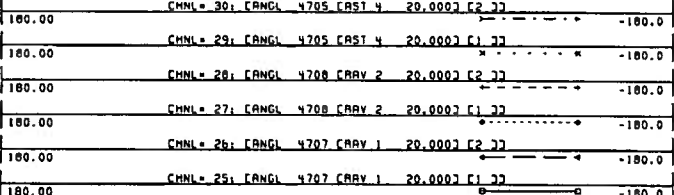
FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
 CHNL = 48: CANGL 9396 CBOMLCT218.0007 C1 JJ



FRI, MAR 31 2000 15:42
 RUN E2A PLOT 8

CASE DW2: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

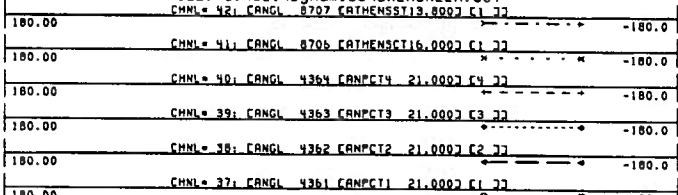
FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
 CHNL = 30: CANGL 4705 CAST 4 20.0007 C2 JJ



FRI, MAR 31 2000 15:42
 RUN E2A PLOT 5

CASE DW2: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

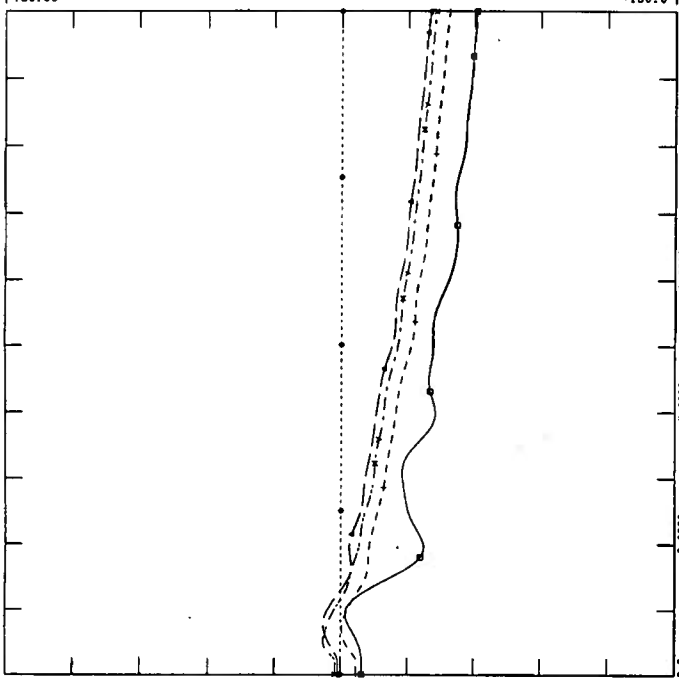
FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
 CHNL = 42: CANGL 8707 CATHEMSCT13.8007 C1 JJ



FRI, MAR 31 2000 15:42
 RUN E2A PLOT 7

CASE DW2: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
 CHNL= 50; CANGL 23311 CMATN CK424.0007 C1 JJ

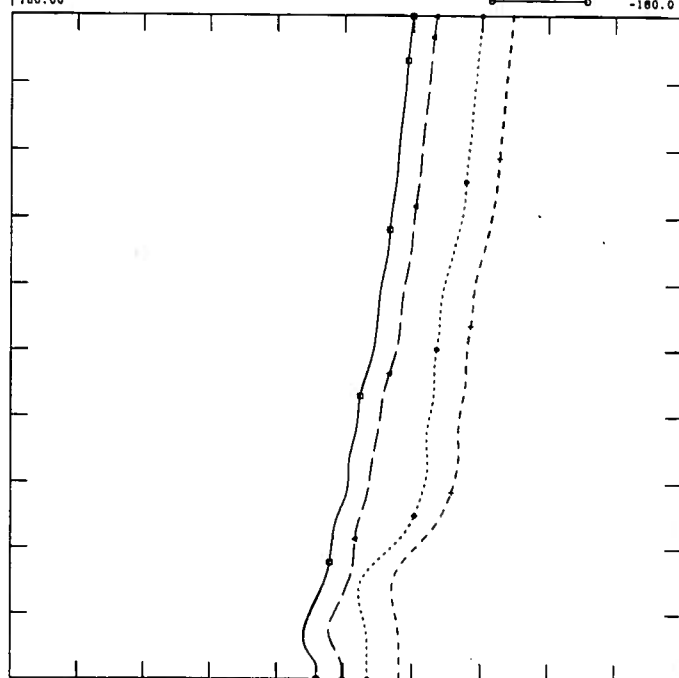
180.00 CHNL= 59; CANGL 23310 CMATN CK324.0007 C1 JJ -180.0
 180.00 CHNL= 58; CANGL 23041 CLIMFAIC122.0007 C1 JJ -180.0
 180.00 CHNL= 57; CANGL 23499 CLIMFAIC122.0007 C1 JJ -180.0
 180.00 CHNL= 56; CANGL 23039 CHOPE CA J C1 JJ -180.0
 180.00 CHNL= 55; CANGL 2069 CSBAK G1 25.0007 C1 JJ -180.0



FRI, MAR 31 2000 15:42
 RUN E2A PLOT 10

CASE DW2: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT

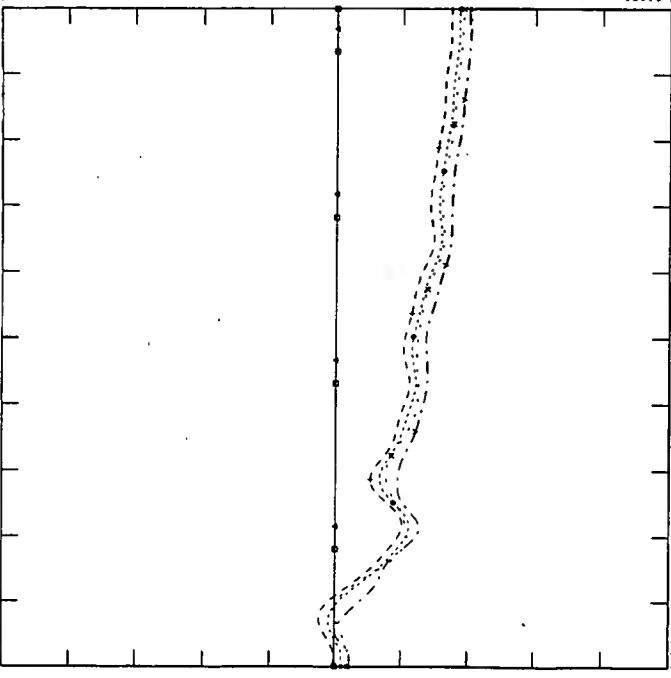
180.00 CHNL= 70; CANGL 17472 CALLONG2 19.0007 C1 JJ -180.0
 180.00 CHNL= 69; CANGL 17456 CLEPAG 26.0007 C1 JJ -180.0
 180.00 CHNL= 68; CANGL 23194 CT M 1 G1.00007 C1 JJ -180.0
 180.00 CHNL= 67; CANGL 23040 CSUSQUEHA J C1 JJ -180.0



FRI, MAR 31 2000 15:42
 RUN E2A PLOT 12

CASE DW2: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
 CHNL= 54; CANGL 3648 CPTHBA=322.0007 C3 JJ

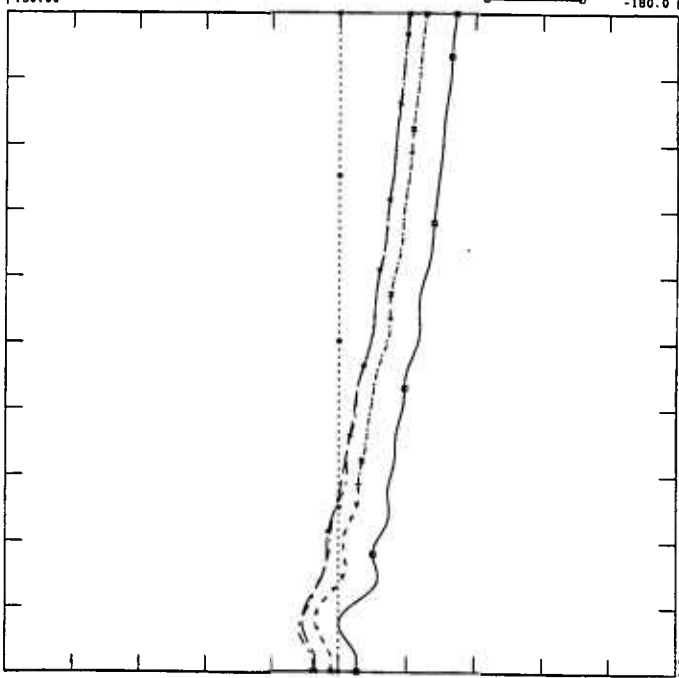
180.00 CHNL= 53; CANGL 2371 CAP=4 AN22.0007 C1 JJ -180.0
 180.00 CHNL= 52; CANGL 3563 CMILL=3 24.0007 C3 JJ -180.0
 180.00 CHNL= 51; CANGL 3562 CMILL=2 24.0007 C2 JJ -180.0
 180.00 CHNL= 50; CANGL 9398 CBOHNS1 18.0007 C1 JJ -180.0
 180.00 CHNL= 49; CANGL 9397 CBOHNS1 18.0007 C1 JJ -180.0



FRI, MAR 31 2000 15:42
 RUN E2A PLOT 9

CASE DW2: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
 CHNL= 66; CANGL 23368 CSUSQ 1 24.0007 C1 JJ

180.00 CHNL= 65; CANGL 21002 CSALEM G2 J C1 JJ -180.0
 180.00 CHNL= 64; CANGL 23001 CSALEM G1 J C1 JJ -180.0
 180.00 CHNL= 63; CANGL 23000 CPCHBTM=3 J C1 JJ -180.0
 180.00 CHNL= 62; CANGL 25999 CPCHBTM=2 J C1 JJ -180.0
 180.00 CHNL= 61; CANGL 23201 COYSTCAG1 J C1 JJ -180.0

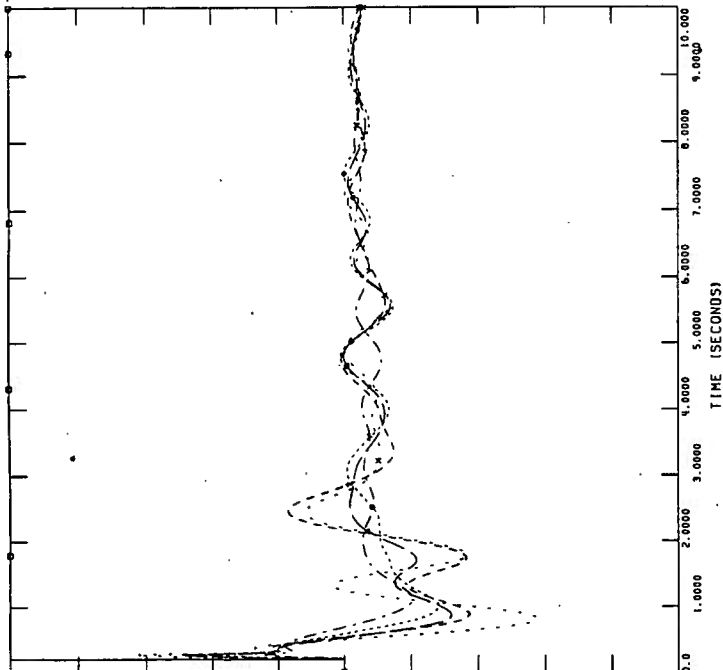


FRI, MAR 31 2000 15:42
 RUN E2A PLOT 11

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
CHNL = 705: 60 (1) (CFREQ 23003 CALBVRT 15500.0077)

60.250 CHNL = 704: 60 (1) (CFREQ 4327 CFARAGUT 345.0077) 59.750
60.250 CHNL = 703: 60 (1) (CFREQ 3105 CLONG MTN 345.0077) 59.750
60.250 CHNL = 702: 60 (1) (CFREQ 9577 CMARCY 765765.0077) 59.750
60.250 CHNL = 701: 60 (1) (CFREQ 5403 CFARAS 345345.0077) 59.750
60.250 CHNL = 700: 60 (1) (CFREQ 4347 CARAMPO 345.0077) 59.750

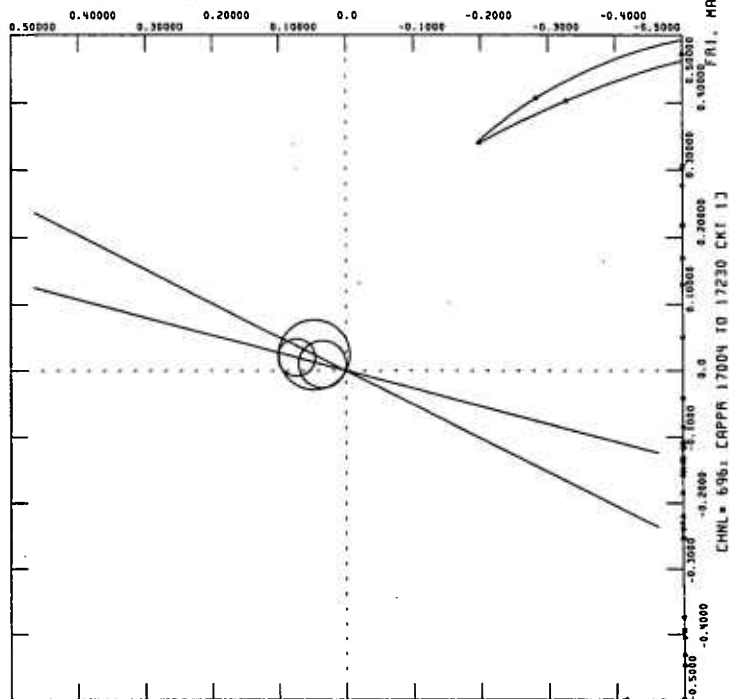


FRI, MAR 31 2000 15:42
RUN E2A PLOT 14

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT

RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

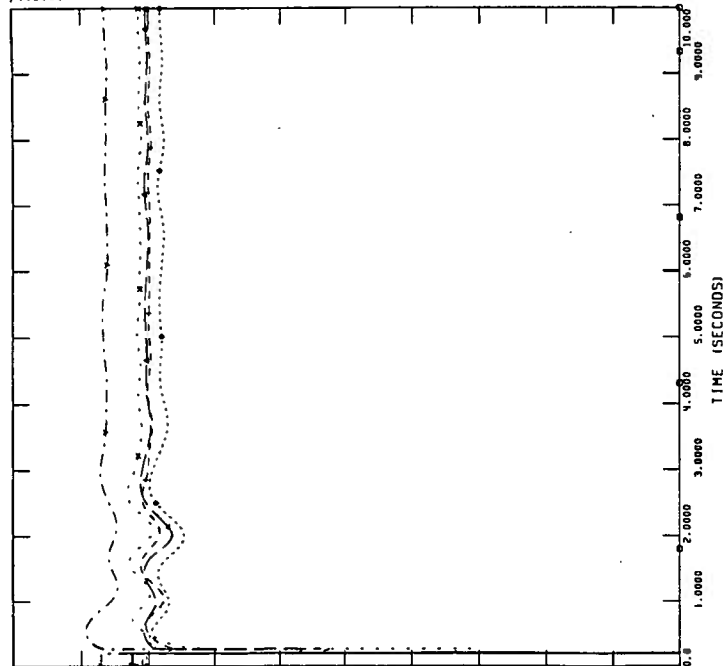


FRI, MAR 31 2000 15:42
RUN E2A PLOT 15

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT
CHNL = 651: CVOLT 23003 CALBVRT 15500.0077

1.2000 CHNL = 508: CVOLT 4327 CFARAGUT 345.0077 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MTN 345.0077 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCY 765765.0077 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARAS 345345.0077 0.20000
1.2000 CHNL = 528: CVOLT 4347 CARAMPO 345.0077 0.20000

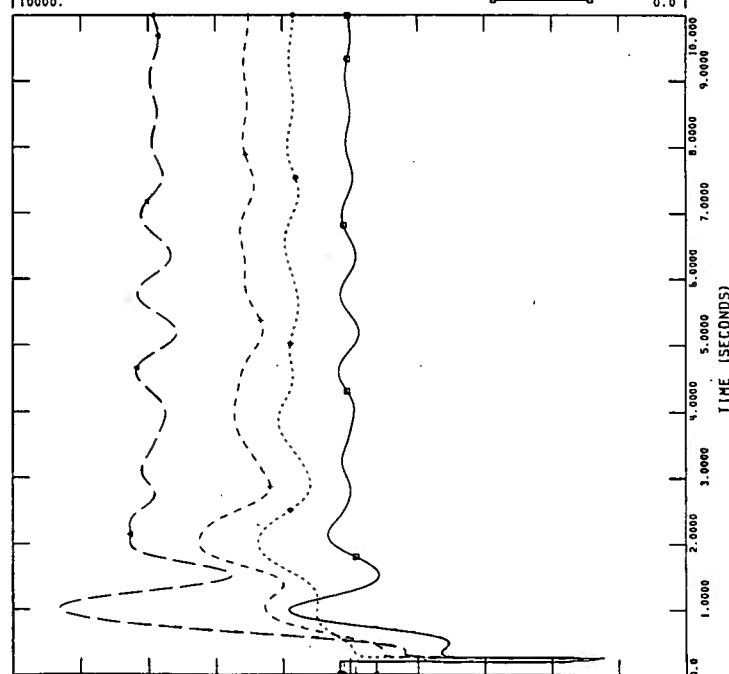


FRI, MAR 31 2000 15:42
RUN E2A PLOT 13

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DW2RUNE2A.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENY 1000.0
CHNL = 687: CMW UPNY TO COMED 0.0



FRI, MAR 31 2000 15:42
RUN E2A PLOT 16

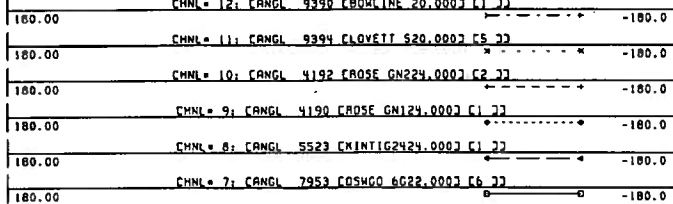
CONTINGENCY E3A

RECOVER FROM D1.SNP AND DW2.CNV
START OUTPUT DW2RUNE3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
RUN FOR 5.75 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4360 CKT 1 / TRIP RAMAPO-ANP CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL = 12: CANGL 9390 CROWLINE 20.0000 C1 JJ

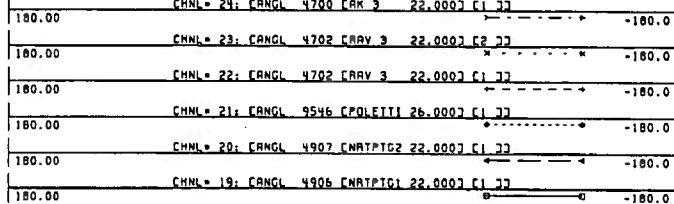


FRI, MAR 31 2000 15:42
RUN E3A PLOT 2



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL = 24: CANGL 4700 CARK 3 22.0000 C1 JJ

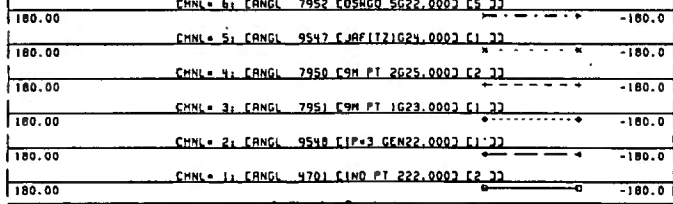


FRI, MAR 31 2000 15:42
RUN E3A PLOT 4



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL = 61: CANGL 7952 CASHGO 5622.0000 C5 JJ

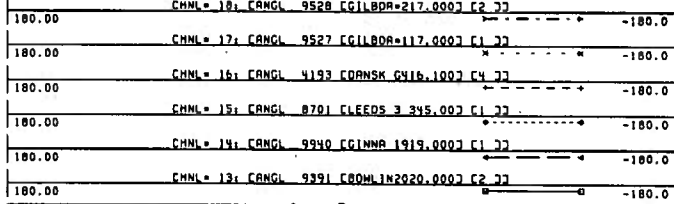


FRI, MAR 31 2000 15:42
RUN E3A PLOT 1



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

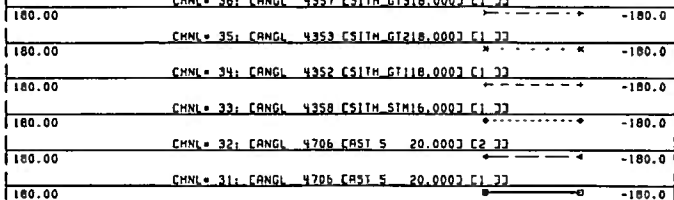
FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL = 18: CANGL 9528 CGILBDA 217.0000 C2 JJ



FRI, MAR 31 2000 15:42
RUN E3A PLOT 3

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

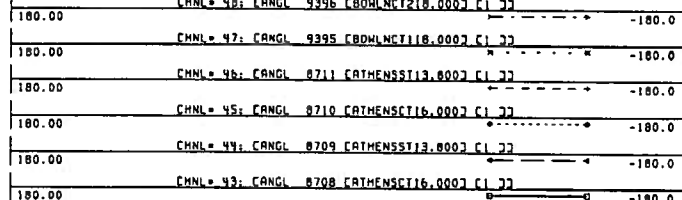
FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL = 35: CANGL 4353 CSITH GT18.0007 C1 JJ



FRI, MAR 31 2000 15:43
RUN E3A PLOT 6

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

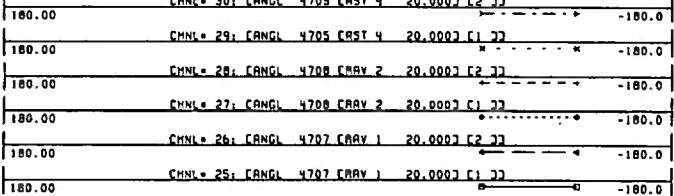
FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL = 48: CANGL 9395 CBOWLNCT18.0007 C1 JJ



FRI, MAR 31 2000 15:43
RUN E3A PLOT 8

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

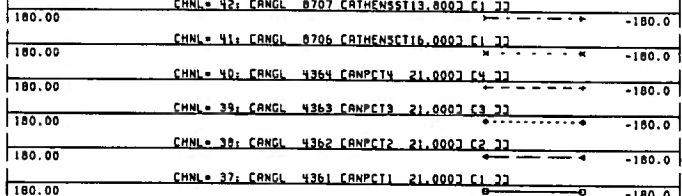
FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL = 30: CANGL 4705 CAST 4 20.0007 C2 JJ



FRI, MAR 31 2000 15:42
RUN E3A PLOT 5

CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL = 42: CANGL 8707 CATHENSCT13.0007 C1 JJ

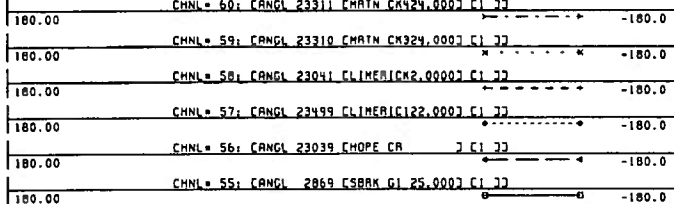


FRI, MAR 31 2000 15:43
RUN E3A PLOT 7



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL = 60: CANGL 23311 CHATN CM324.0002 C1 JJ

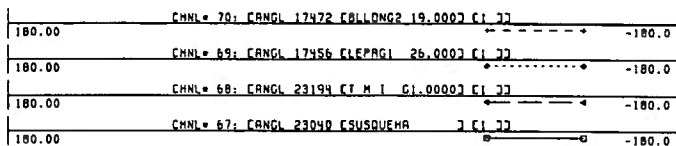


FRI, MAR 31 2000 15:43
RUN E3A PLOT 10



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT

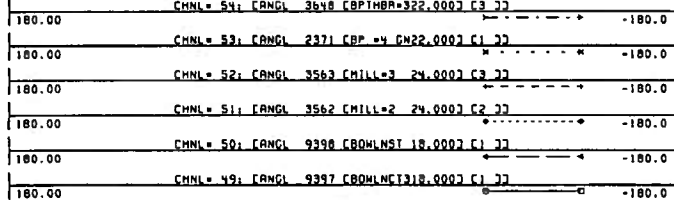


FRI, MAR 31 2000 15:43
RUN E3A PLOT 12



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL = 54: CANGL 3848 CAPIMB=322.0002 C3 JJ

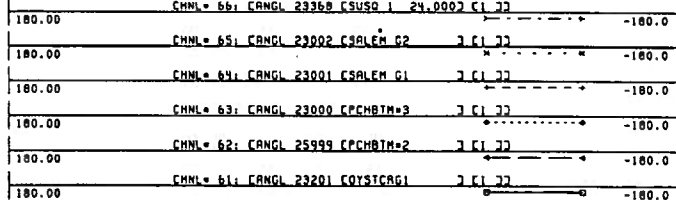


FRI, MAR 31 2000 15:43
RUN E3A PLOT 9



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL = 66: CANGL 23368 CSVSQ 1 24.0002 C1 JJ

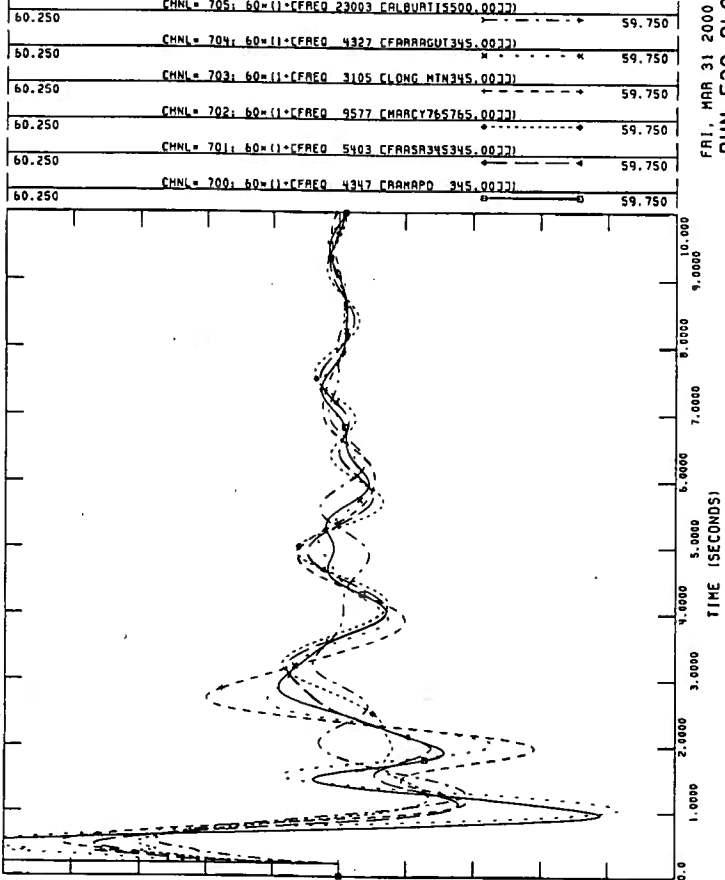


FRI, MAR 31 2000 15:43
RUN E3A PLOT 11



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL= 705: 60-(1)-CFREQ 23003 CALBART15500.0077



FRI, MAR 31 2000 15:43
RUN E3A PLOT 14



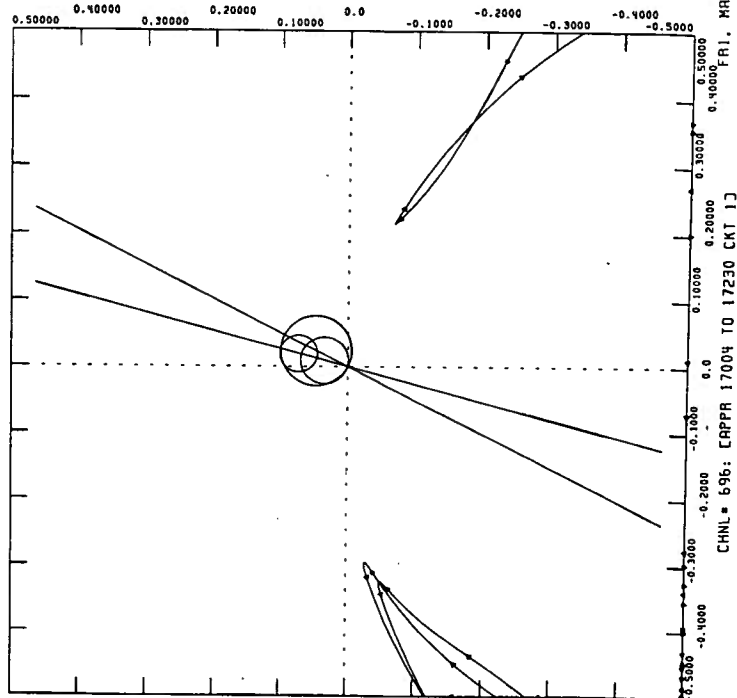
CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25

CHNL= 697: CAPPX 17004 TO 17230 CKT 13

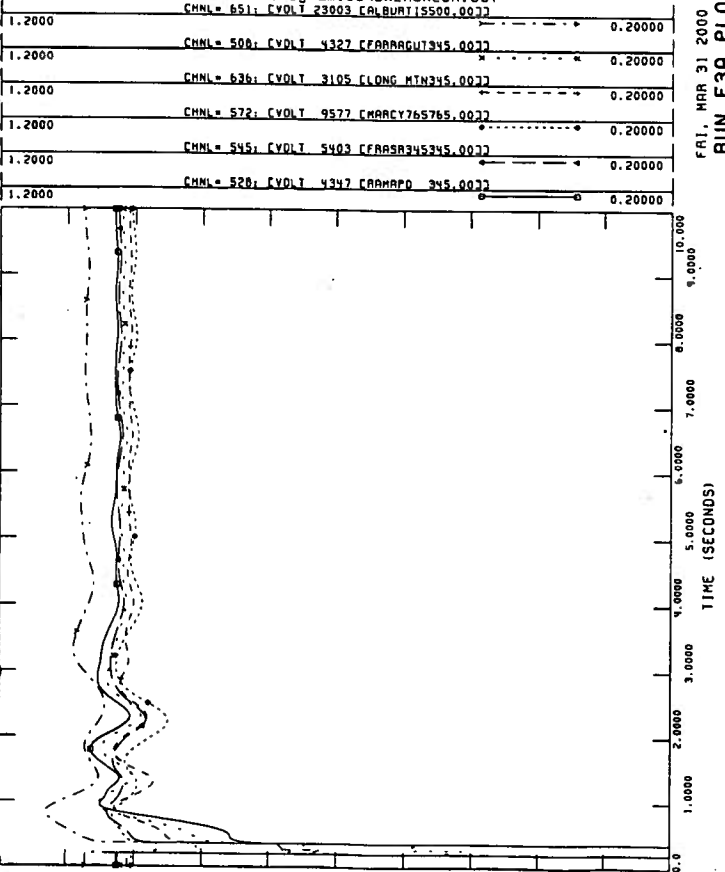


FRI, MAR 31 2000 15:43
RUN E3A PLOT 13



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT
CHNL= 651: CVOLT 23003 CALBART15500.0077

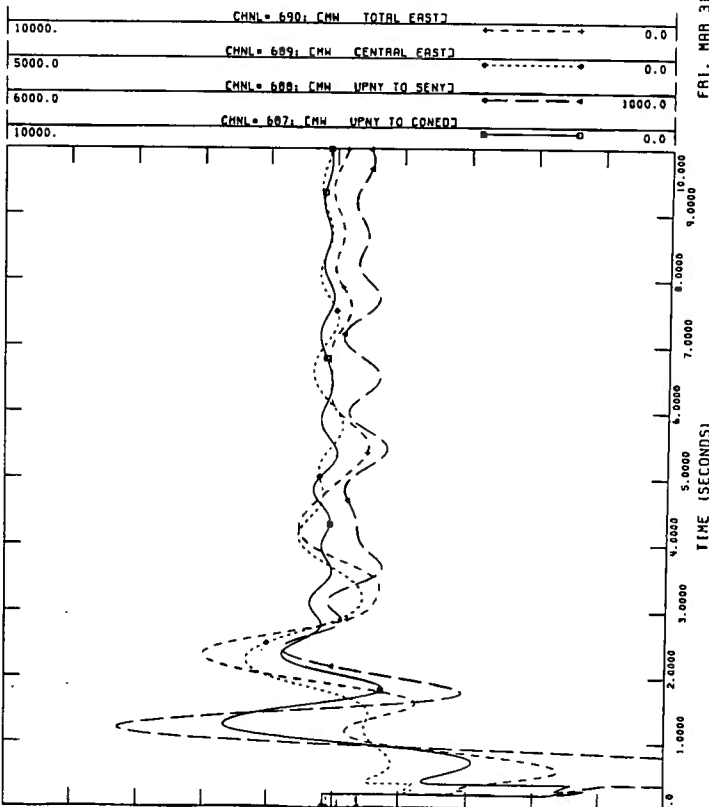


FRI, MAR 31 2000 15:43
RUN E3A PLOT 15



CASE DW2: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 ON - BOWLINE 2 & 3 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW2RUNE3A.OUT



FRI, MAR 31 2000 15:43
RUN E3A PLOT 16

APPENDIX F.7 - Summer Peak Case DW3

Bowline 1, 2 and 3, Athens, ANP and Sithe On-Line

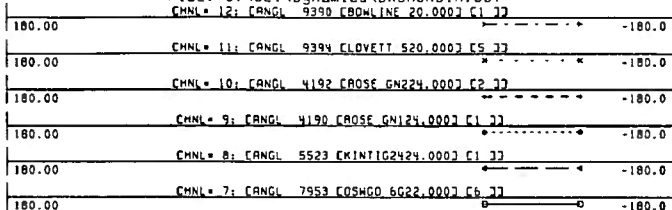
CONTINGENCY D1A

RECOVER FROM D1.SNP AND DW3.CNV
START OUTPUT DW3RUND1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4310 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BOWLINE
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9398 / TRIP BOWLINE 3 ST
TRIP BRANCH FROM BUS 9398 TO BUS 4311 CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\dynamics\DW3RUND1A.OUT
CHNL = 12: CANCL 9390 CROVET 20.0000 C1 JJ

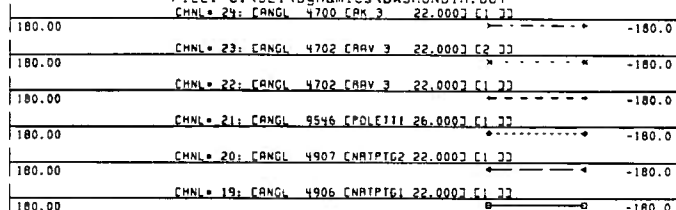


FRI, MAR 31 2000 16:14
RUN DIA PLOT 2



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\dynamics\DW3RUND1A.OUT
CHNL = 24: CANCL 4700 CAY 3 22.0000 C1 JJ

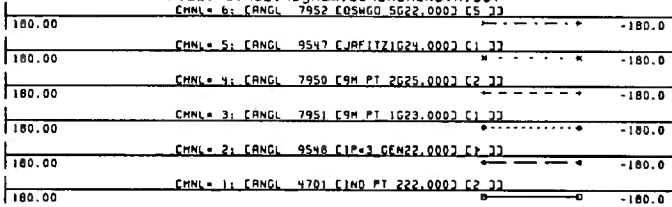


FRI, MAR 31 2000 16:14
RUN DIA PLOT 4



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\dynamics\DW3RUND1A.OUT
CHNL = 6: CANCL 7952 CROVET 50.0000 C1 JJ

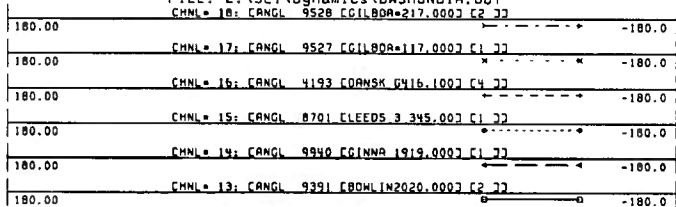


FRI, MAR 31 2000 16:14
RUN DIA PLOT 1



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\dynamics\DW3RUND1A.OUT
CHNL = 18: CANCL 9528 CROVET 217.0000 C1 JJ

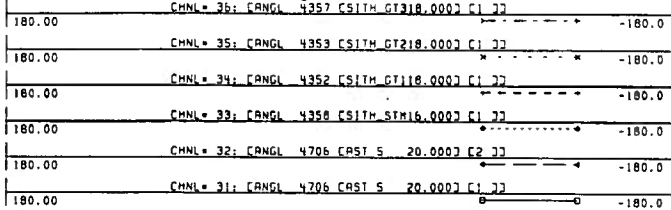


FRI, MAR 31 2000 16:14
RUN DIA PLOT 3



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DW3AUNDIA.OUT
CHNL = 35: CANGL 4353 CSITH GT218.0007 C1 JJ

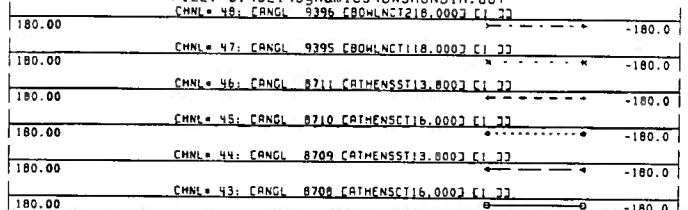


FRI, MAR 31 2000 16:14
RUN DIA PLOT 6



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DW3AUNDIA.OUT
CHNL = 48: CANGL 8395 CBOWLNCT218.0007 C1 JJ

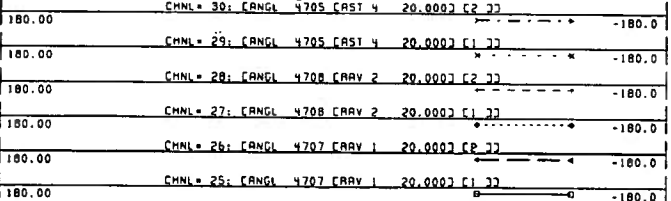


FRI, MAR 31 2000 16:14
RUN DIA PLOT 8



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DW3AUNDIA.OUT
CHNL = 39: CANGL 4705 CAST 4 20.0007 C2 JJ

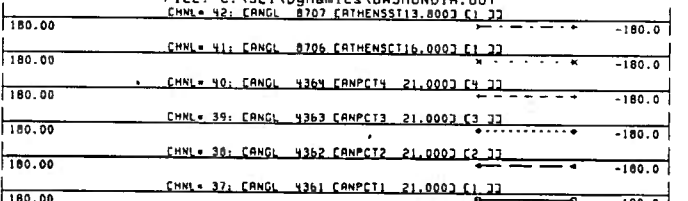


FRI, MAR 31 2000 16:14
RUN DIA PLOT 5



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DW3AUNDIA.OUT
CHNL = 42: CANGL 8707 CATHENSST13.8007 C1 JJ

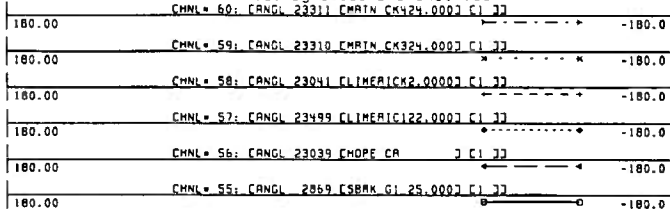


FRI, MAR 31 2000 16:14
RUN DIA PLOT 7



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DW3AUNDIA.OUT
CHNL = 60: CANGL 23311 CMATN CK424.0000 C1 JJ

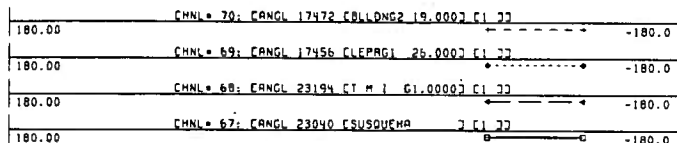


FRI, MAR 31 2000 16:14
RUN DIA PLOT 10



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DW3AUNDIA.OUT

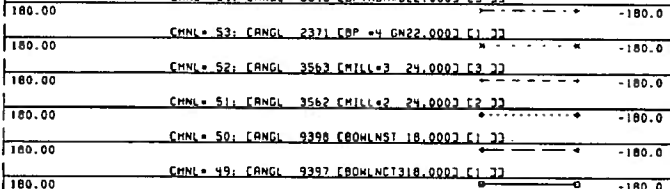


FRI, MAR 31 2000 16:14
RUN DIA PLOT 12



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DW3AUNDIA.OUT
CHNL = 54: CANGL 3648 CAPTMBR=322.0000 C3 JJ

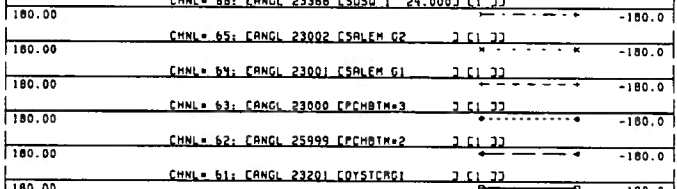


FRI, MAR 31 2000 16:14
RUN DIA PLOT 9

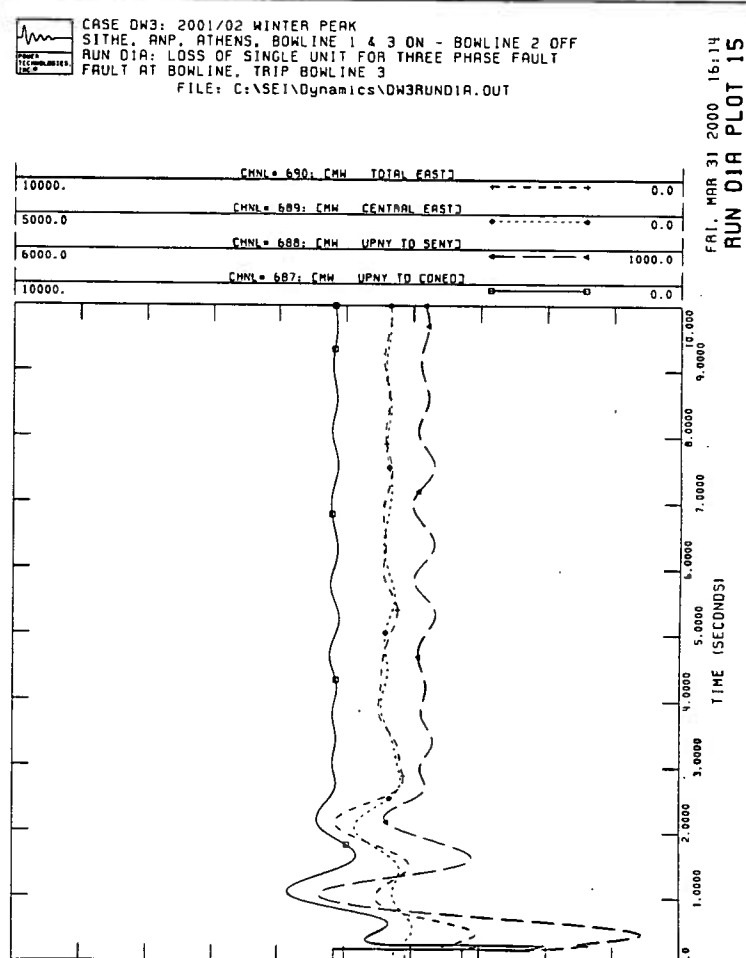
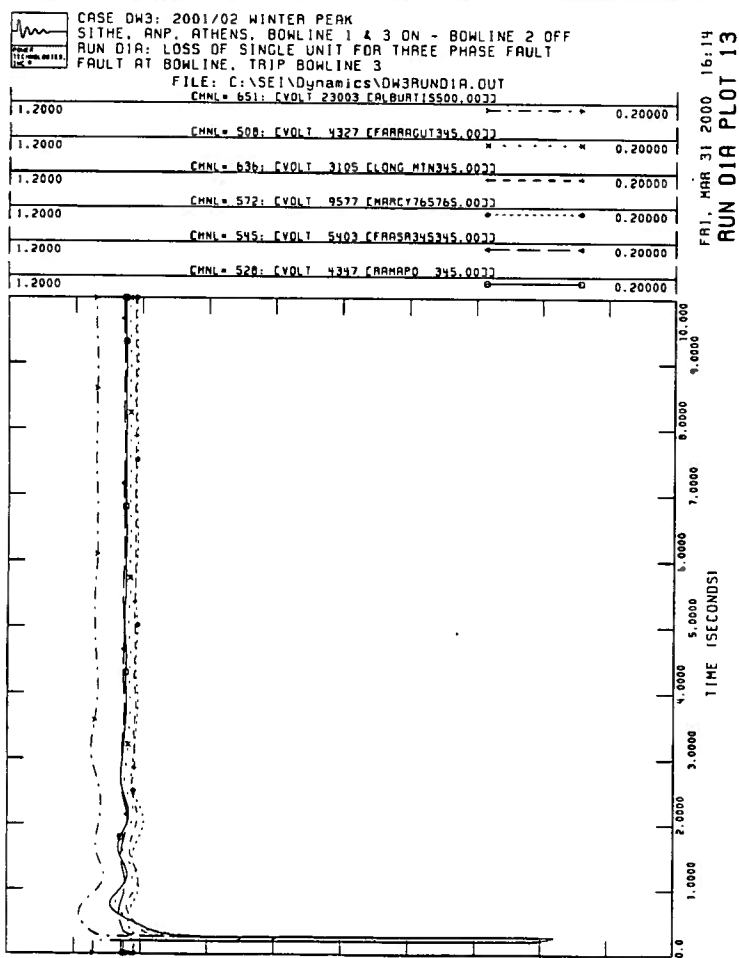
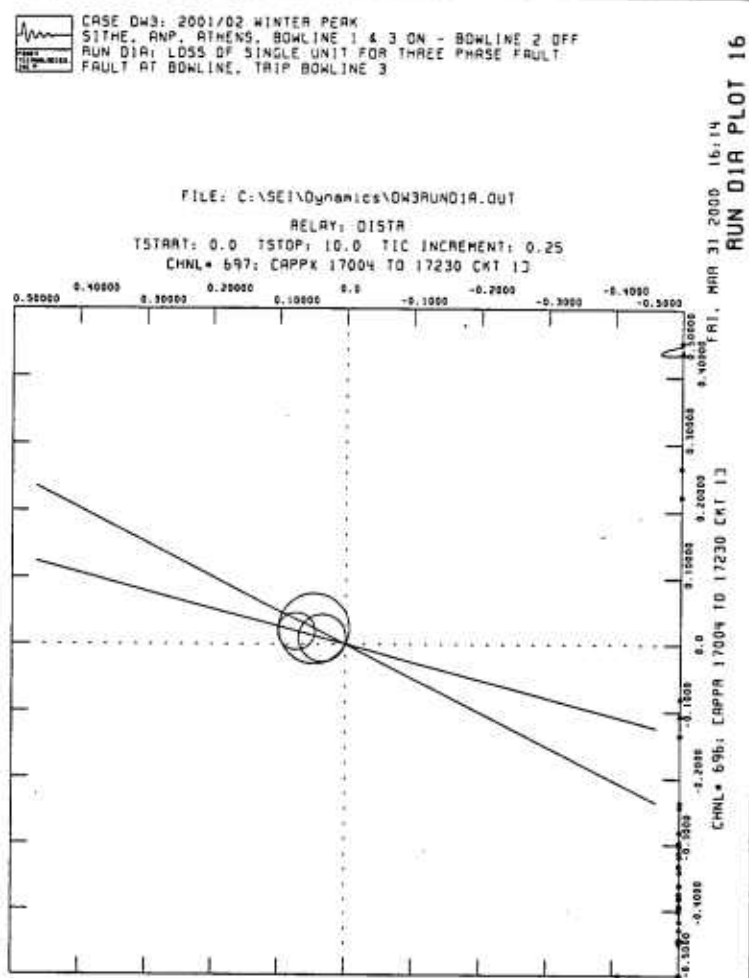
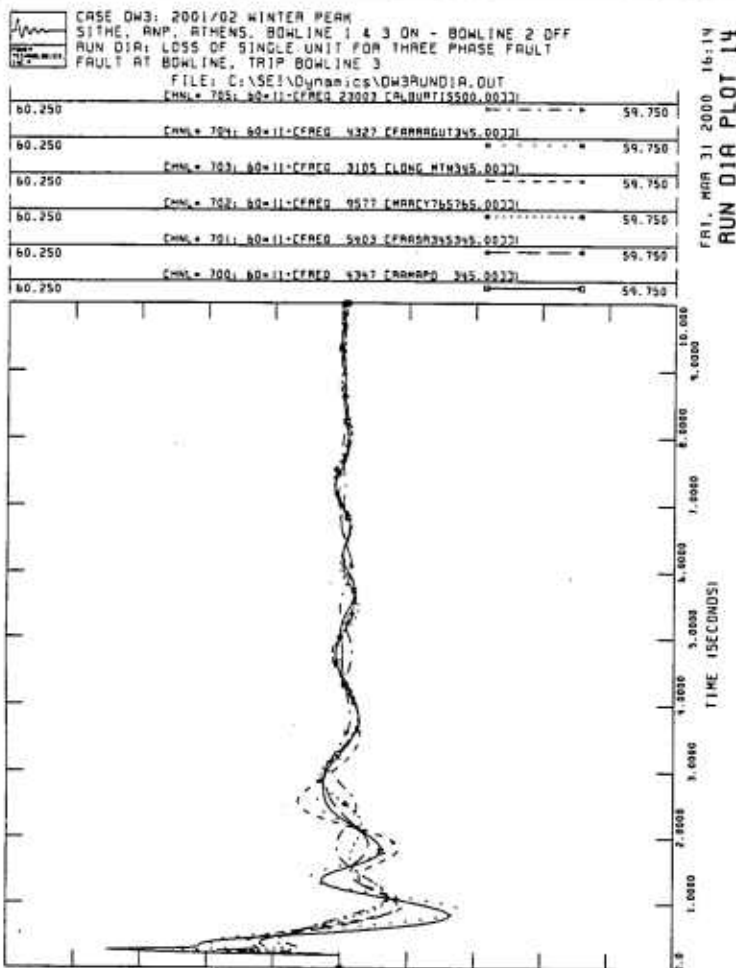


CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DW3AUNDIA.OUT
CHNL = 66: CANGL 23368 CSUSQ 1 24.0000 C1 JJ



FRI, MAR 31 2000 16:14
RUN DIA PLOT 11



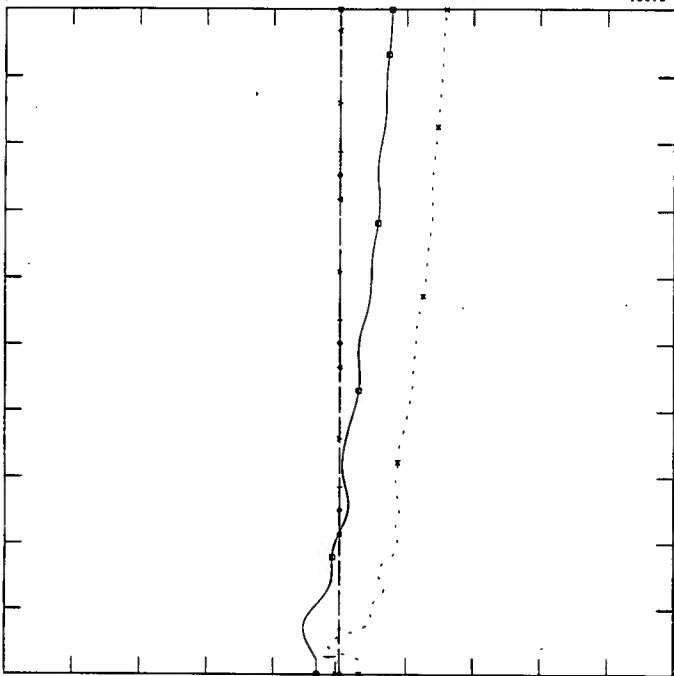
CONTINGENCY D2A

```
RECOVER FROM D1.SNP AND DW3.CNV
START OUTPUT DW3RUND2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0  -2e+009 MVA  / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9390  / TRIP BOWLINE 1
DROP GENERATOR 2 AT BUS 9391  / TRIP BOWLINE 2
DROP GENERATOR 1 AT BUS 9395  / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9396  / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9397  / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9398  / TRIP BOWLINE 3 ST
DISCONNECT BUS 9300  /
DISCONNECT BUS 9301  /
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3
```



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DW3RUND2A.OUT
CHNL = 12: CANGI 9390 CROUVE 20.000 C1 JJ

CHNL = 11: CANGI 9394 CLOVEIT 520.000 C5 JJ
CHNL = 10: CANGI 4192 CROSE GN224.000 C2 JJ
CHNL = 9: CANGI 4190 CROSE GN124.000 C1 JJ
CHNL = 8: CANGI 5523 CKINTIG2424.000 C1 JJ
CHNL = 7: CANGI 7953 CDSHGO 6522.000 C6 JJ

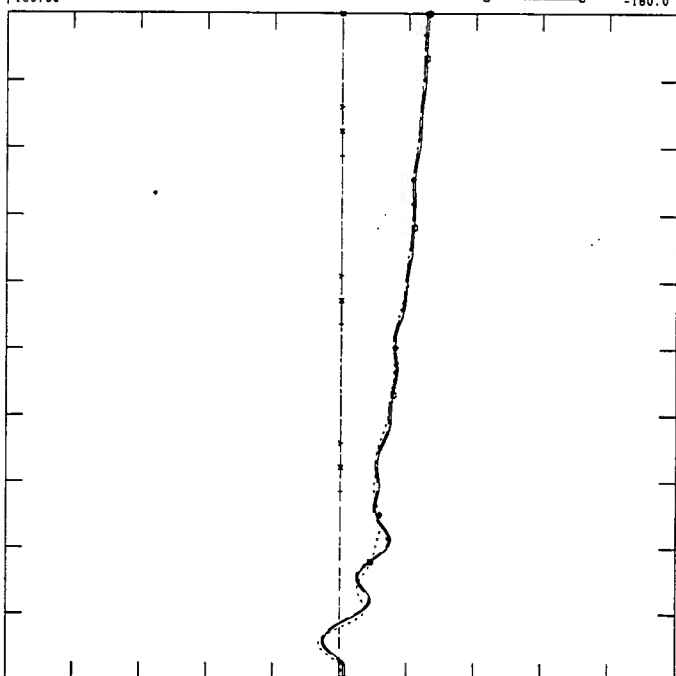


FRI, MAR 31 2000 16:14
RUN D2A PLOT 2



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DW3RUND2A.OUT
CHNL = 24: CANGI 4700 CAY 3 22.000 C2 JJ

CHNL = 23: CANGI 4702 CAY 3 22.000 C2 JJ
CHNL = 22: CANGI 4702 CAY 3 22.000 C1 JJ
CHNL = 21: CANGI 9546 CPOLETTI 26.000 C1 JJ
CHNL = 20: CANGI 4907 CNATPTG2 22.000 C1 JJ
CHNL = 19: CANGI 4906 CNATPTG1 22.000 C1 JJ

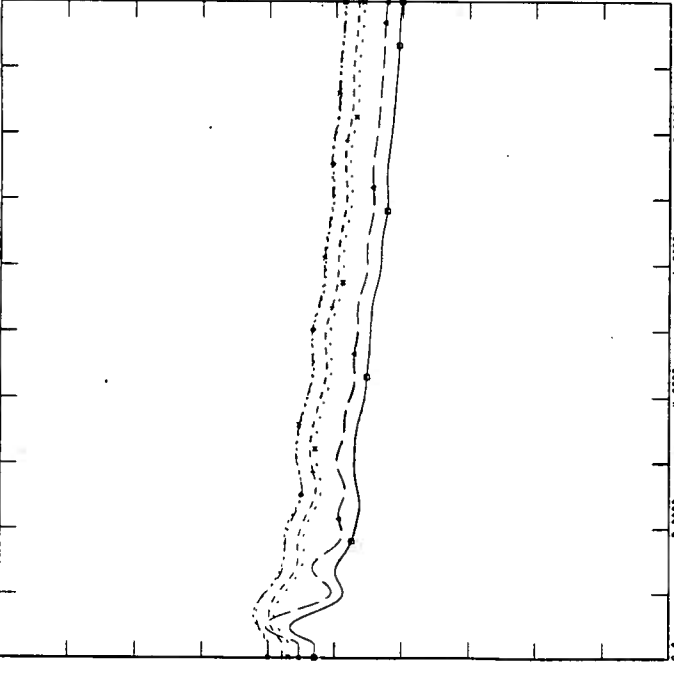


FRI, MAR 31 2000 16:14
RUN D2A PLOT 4



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DW3RUND2A.OUT
CHNL = 6: CANGI 7952 CDSHGO 5622.000 C5 JJ

CHNL = 5: CANGI 9547 CJAFT171624.000 C1 JJ
CHNL = 4: CANGI 7950 C9M PT 2625.000 C2 JJ
CHNL = 3: CANGI 7951 C9M PT 1623.000 C1 JJ
CHNL = 2: CANGI 9540 CIP=3 GEN22.000 C1 JJ
CHNL = 1: CANGI 4701 CINO PT 222.000 C2 JJ

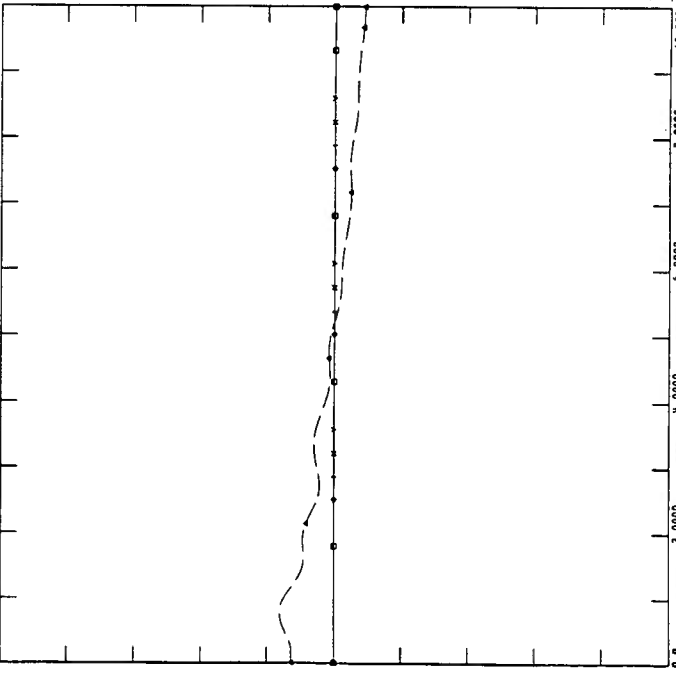


FRI, MAR 31 2000 16:14
RUN D2A PLOT 1



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DW3RUND2A.OUT
CHNL = 18: CANGI 9528 CGLBDA=217.000 C2 JJ

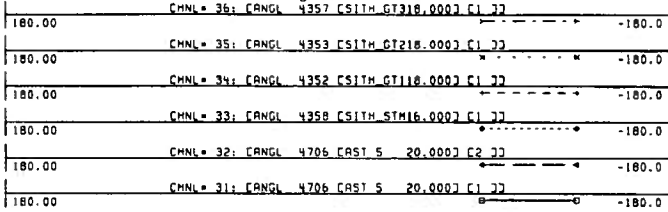
CHNL = 17: CANGI 9527 CGLBDA=117.000 C1 JJ
CHNL = 16: CANGI 4193 CDANSK 6416.100 C4 JJ
CHNL = 15: CANGI 8701 CLEEDS 3 345.000 C1 JJ
CHNL = 14: CANGI 9940 COINNA 1919.000 C1 JJ
CHNL = 13: CANGI 9391 CROUVE 20.000 C2 JJ



FRI, MAR 31 2000 16:14
RUN D2A PLOT 3



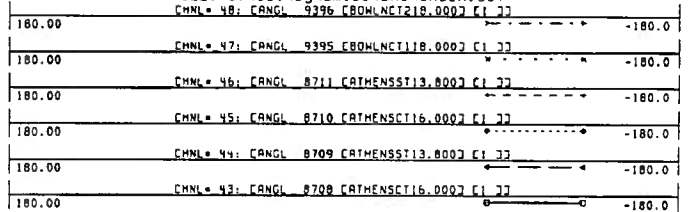
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DW3RUND2A.OUT
CHNL = 36: CANGL 4357 CSITH GT18.000 C1 JJ



FRI, MAR 31 2000 16:14
RUN D2A PLOT 6



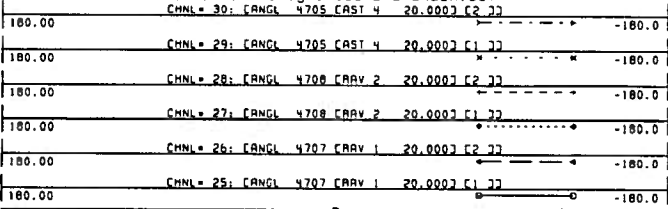
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DW3RUND2A.OUT
CHNL = 48: CANGL 9396 CBOWLNCT18.000 C1 JJ



FRI, MAR 31 2000 16:14
RUN D2A PLOT 8



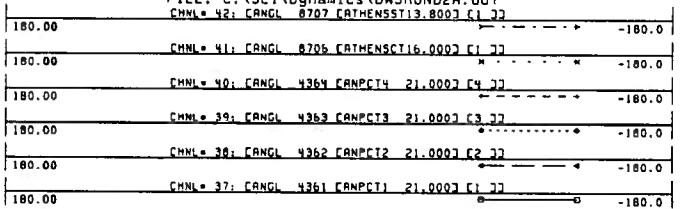
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DW3RUND2A.OUT
CHNL = 39: CANGL 4705 CAST 4 20.000 C2 JJ



FRI, MAR 31 2000 16:14
RUN D2A PLOT 5



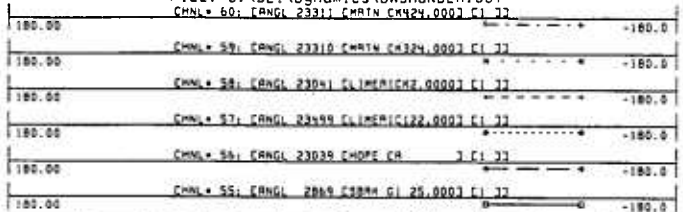
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\Dynamic\DW3RUND2A.OUT
CHNL = 42: CANGL 8707 CATHENSST13.800 C1 JJ



FRI, MAR 31 2000 16:14
RUN D2A PLOT 7



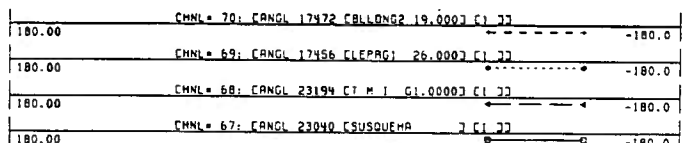
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\dynamics\DW3RUND2A.OUT
CHNL = 60: CANGL 23310 CHATM C4324.0007 C1 JJ



FRI, MAR 31 2000 16:14
RUN D2A PLOT 10



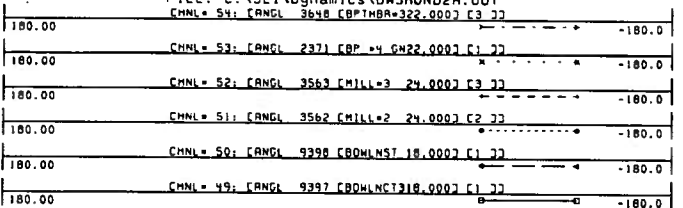
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\dynamics\DW3RUND2A.OUT
CHNL = 70: CANGL 17472 CALLONG2 19.0007 C1 JJ



FRI, MAR 31 2000 16:14
RUN D2A PLOT 12



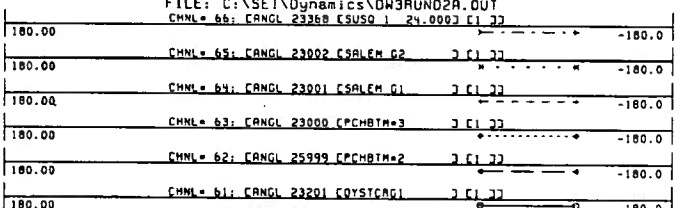
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\dynamics\DW3RUND2A.OUT
CHNL = 54: CANGL 3646 CBTHA=322.0007 C3 JJ



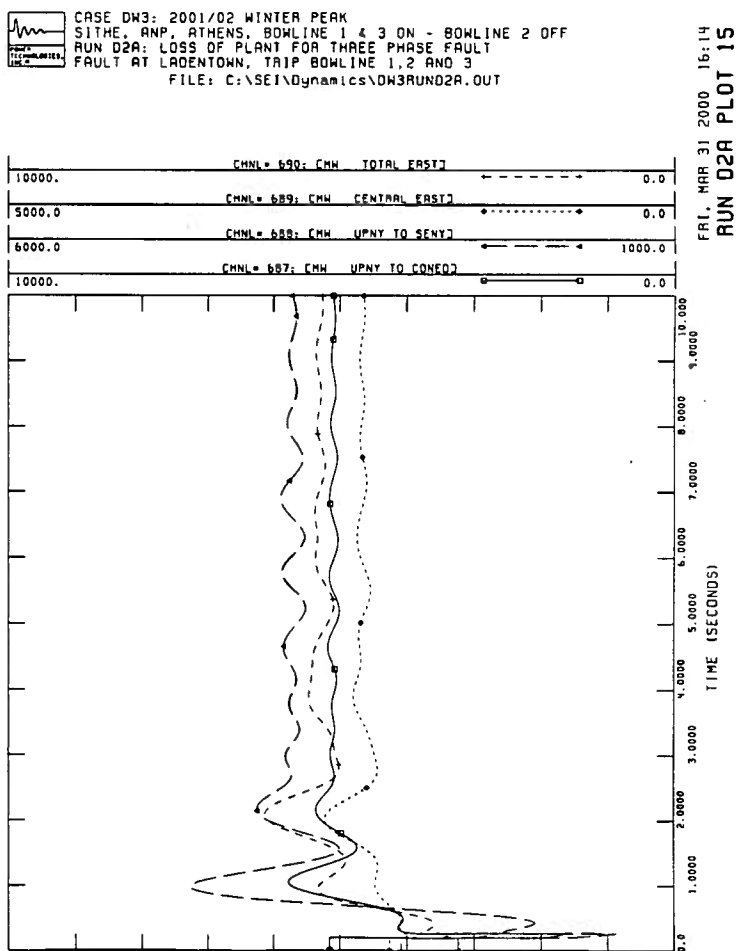
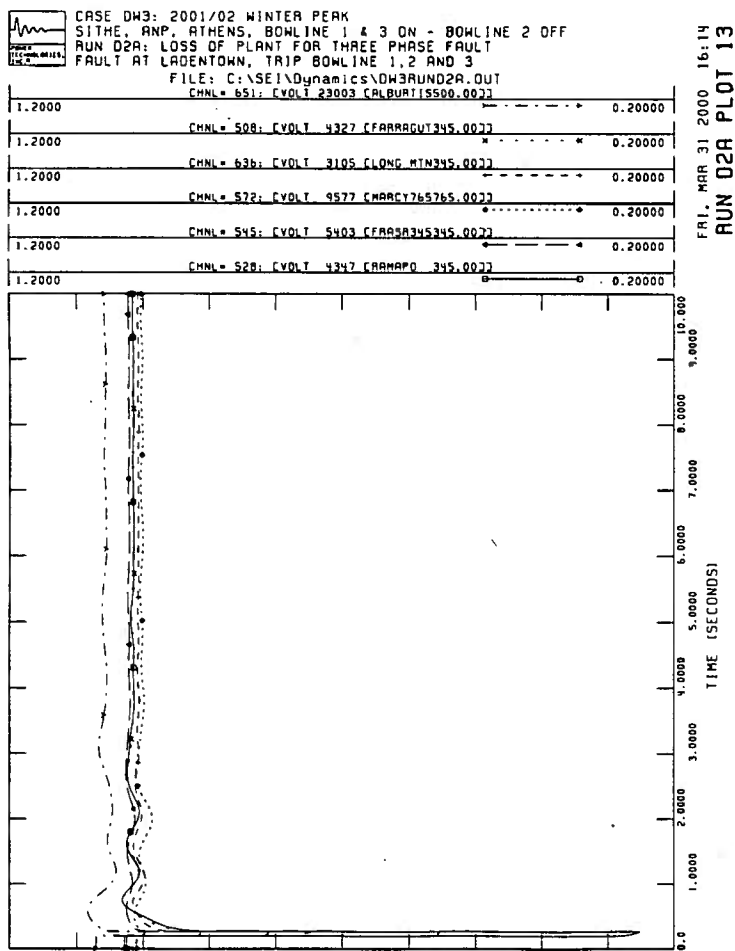
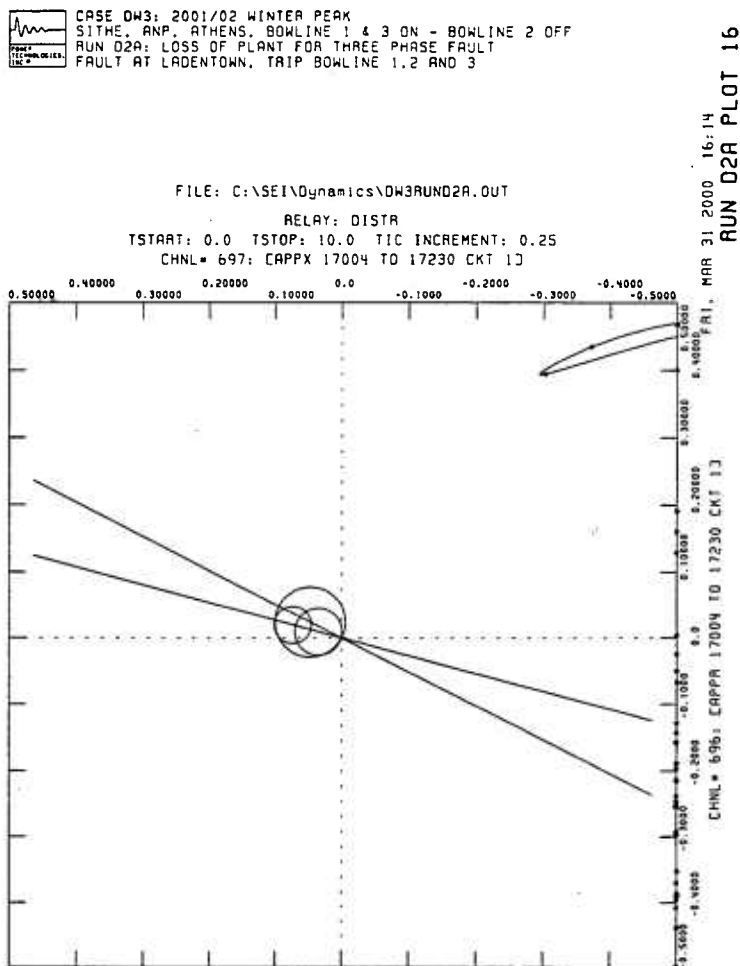
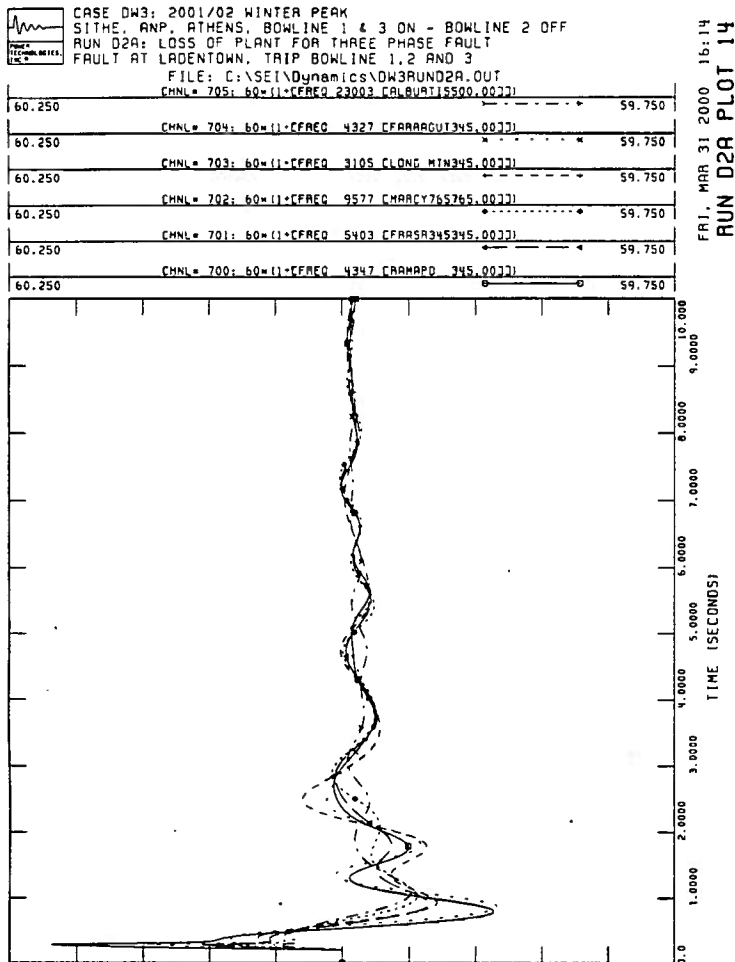
FRI, MAR 31 2000 16:14
RUN D2A PLOT 9



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
FILE: C:\SEI\dynamics\DW3RUND2A.OUT
CHNL = 66: CANGL 23368 CSUSQ 24.0007 C1 JJ



FRI, MAR 31 2000 16:14
RUN D2A PLOT 11



CONTINGENCY D3A

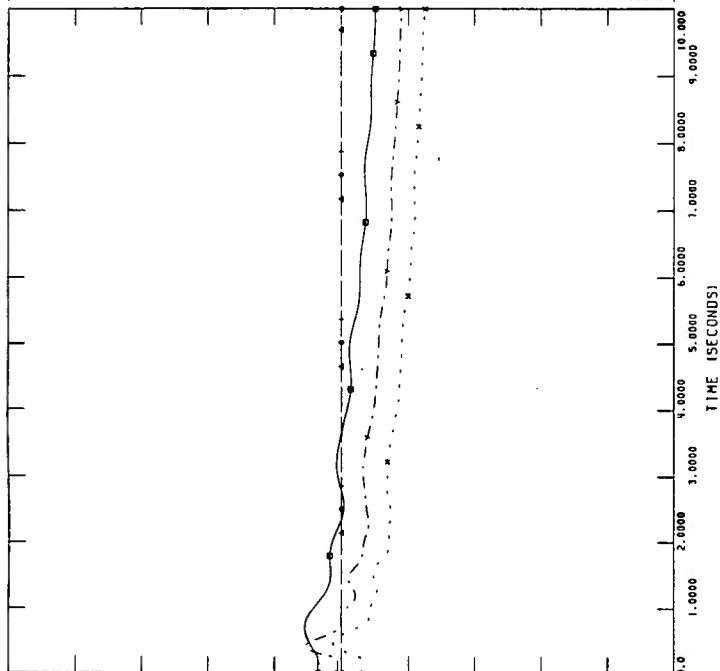
RECOVER FROM D1.SNP AND DW3.CNV
START OUTPUT DW3RUND3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 9582 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT INDN PT 3
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9548 / TRIP INDN PT 3
TRIP LINE FROM BUS 4313 TO BUS 9582 CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\dynamics\DW3RUND3A.OUT
CHNL = 12: CANGL 9390 CROWLINE 25.0007 C1 JJ

180.00 CHNL = 11: CANGL 9394 CLOVETT 520.0007 C5 JJ -180.0
180.00 CHNL = 10: CANGL 4192 CROSE 6224.0007 C2 JJ -180.0
180.00 CHNL = 9: CANGL 4190 CROSE 6214.0007 C1 JJ -180.0
180.00 CHNL = 8: CANGL 5523 CKINT162424.0007 C1 JJ -180.0
180.00 CHNL = 7: CANGL 7953 COSMGO 5622.0007 C6 JJ -180.0



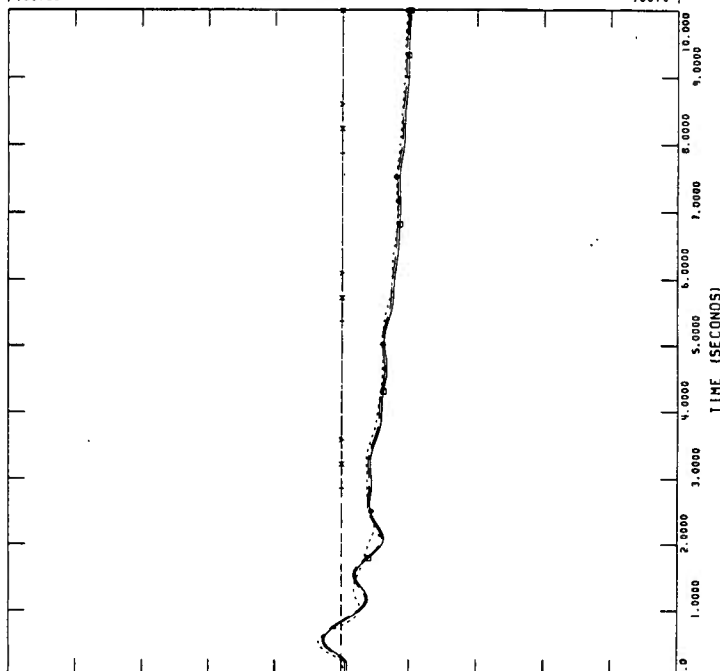
FRI, MAR 31 2000 16:15
RUN D3A PLOT 2



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\dynamics\DW3RUND3A.OUT
CHNL = 24: CANGL 4702 CAV 3 22.0007 C1 JJ

180.00 CHNL = 23: CANGL 4702 CAV 3 22.0007 C2 JJ -180.0
180.00 CHNL = 22: CANGL 4702 CAV 3 22.0007 C1 JJ -180.0
180.00 CHNL = 21: CANGL 9546 CPOLETTI 26.0007 C1 JJ -180.0
180.00 CHNL = 20: CANGL 4907 CNATPTG2 22.0007 C1 JJ -180.0
180.00 CHNL = 19: CANGL 4906 CNATPTG1 22.0007 C1 JJ -180.0



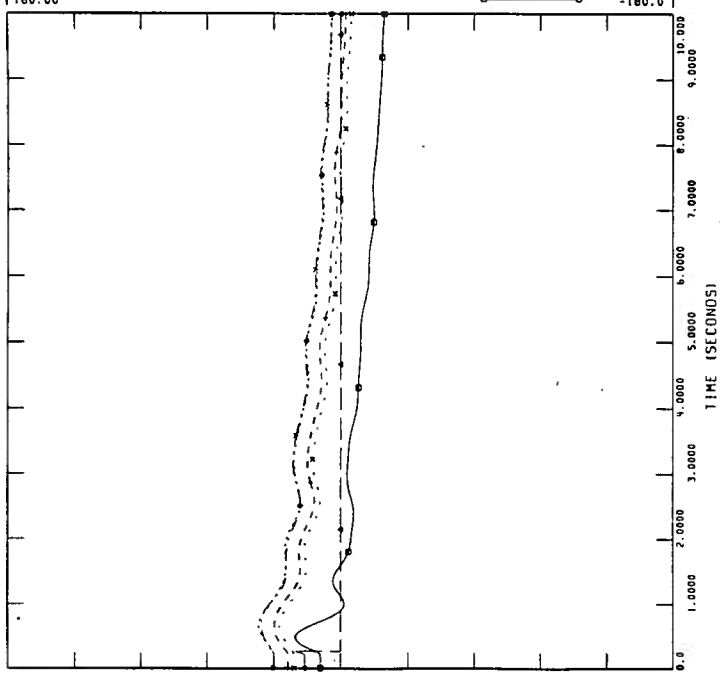
FRI, MAR 31 2000 16:15
RUN D3A PLOT 4



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\dynamics\DW3RUND3A.OUT
CHNL = 6: CANGL 7952 COSMGO 5622.0007 C5 JJ

180.00 CHNL = 5: CANGL 9547 CJBFI171624.0007 C1 JJ -180.0
180.00 CHNL = 4: CANGL 7950 C9M PT 2625.0007 C2 JJ -180.0
180.00 CHNL = 3: CANGL 7951 C9M PT 1623.0007 C1 JJ -180.0
180.00 CHNL = 2: CANGL 9548 CIP=3 CEN22.0007 C1 JJ -180.0
180.00 CHNL = 1: CANGL 4701 CIND PT 222.0007 C2 JJ -180.0



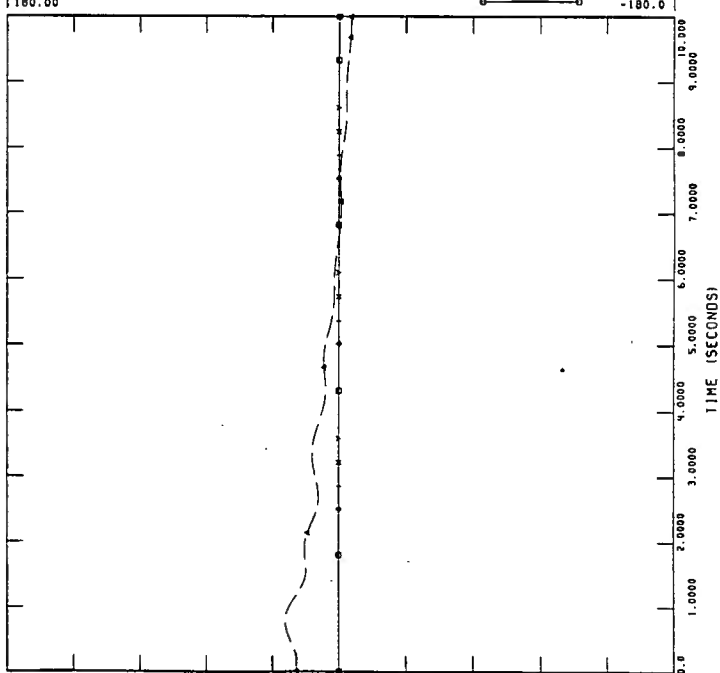
FRI, MAR 31 2000 16:15
RUN D3A PLOT 1



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\dynamics\DW3RUND3A.OUT
CHNL = 18: CANGL 9528 CGLBORA=217.0007 C2 JJ

180.00 CHNL = 17: CANGL 9527 CGLBORA=117.0007 C1 JJ -180.0
180.00 CHNL = 16: CANGL 4193 CDRASK 6416.1007 C4 JJ -180.0
180.00 CHNL = 15: CANGL 8701 CLEEDS 3 345.007 C1 JJ -180.0
180.00 CHNL = 14: CANGL 9940 CGINNA 1919.0007 C1 JJ -180.0
180.00 CHNL = 13: CANGL 9391 CROWLINE2020.0007 C2 JJ -180.0

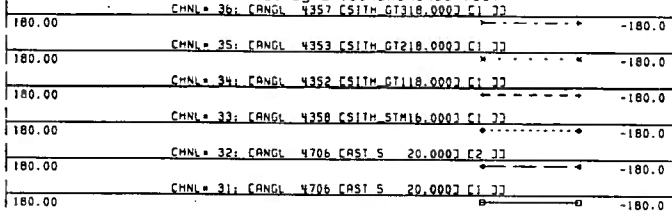


FRI, MAR 31 2000 16:15
RUN D3A PLOT 3



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW3RUND3A.OUT
CHNL= 30: CANGL 4357 CSITH GT18.0000 C1 JJ

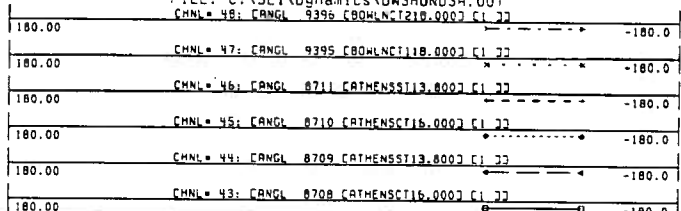


FRI, MAR 31 2000 16:15
RUN D3A PLOT 6



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW3RUND3A.OUT
CHNL= 48: CANGL 9398 CBOWLNC1118.0000 C1 JJ

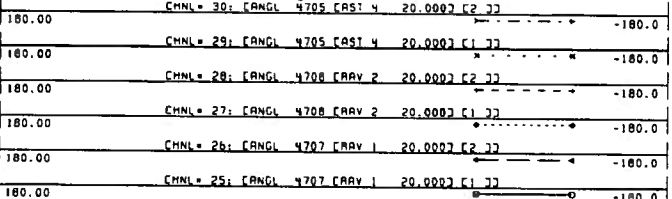


FRI, MAR 31 2000 16:15
RUN D3A PLOT 8



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW3RUND3A.OUT
CHNL= 30: CANGL 4705 CAST 4 20.0000 C2 JJ

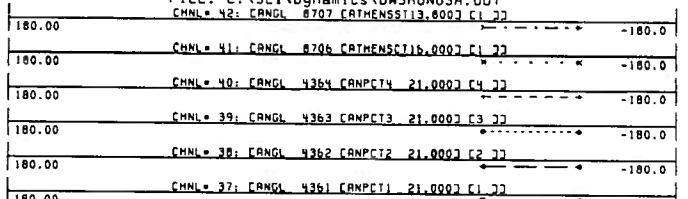


FRI, MAR 31 2000 16:15
RUN D3A PLOT 5



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW3RUND3A.OUT
CHNL= 42: CANGL 8707 CATHENSCT16.0000 C1 JJ

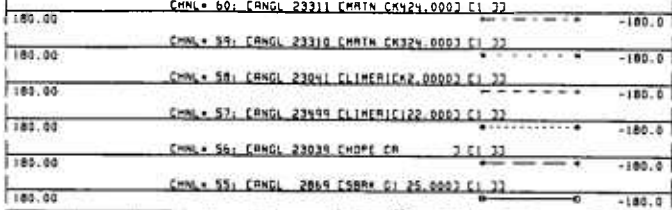


FRI, MAR 31 2000 16:15
RUN D3A PLOT 7



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\dynamics\DW3RUND3A.OUT
CHNL = 60: CANGI 23311 CMATH CKY24.0003 C1 JJ

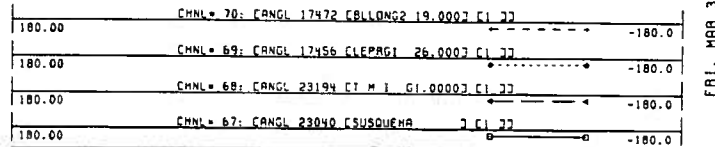


FRI, MAR 31 2000 16:15
RUN D3A PLOT 10



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\dynamics\DW3RUND3A.OUT

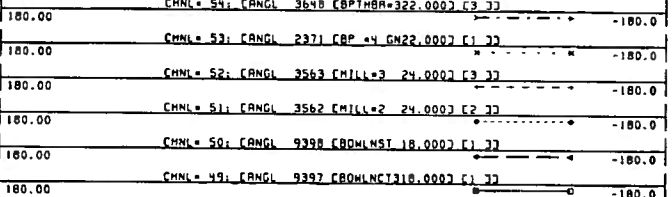


FRI, MAR 31 2000 16:15
RUN D3A PLOT 12



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\dynamics\DW3RUND3A.OUT
CHNL = 51: CANGI 3648 CBPTHBA322.0003 C3 JJ

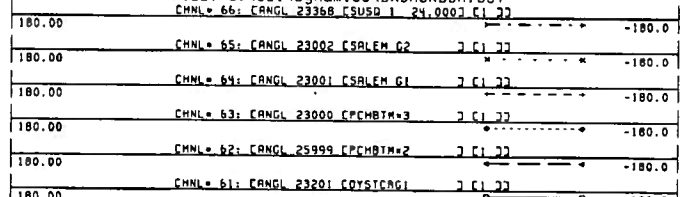


FRI, MAR 31 2000 16:15
RUN D3A PLOT 9



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\dynamics\DW3RUND3A.OUT
CHNL = 66: CANGI 23368 CSUSD 1 24.0003 C1 JJ



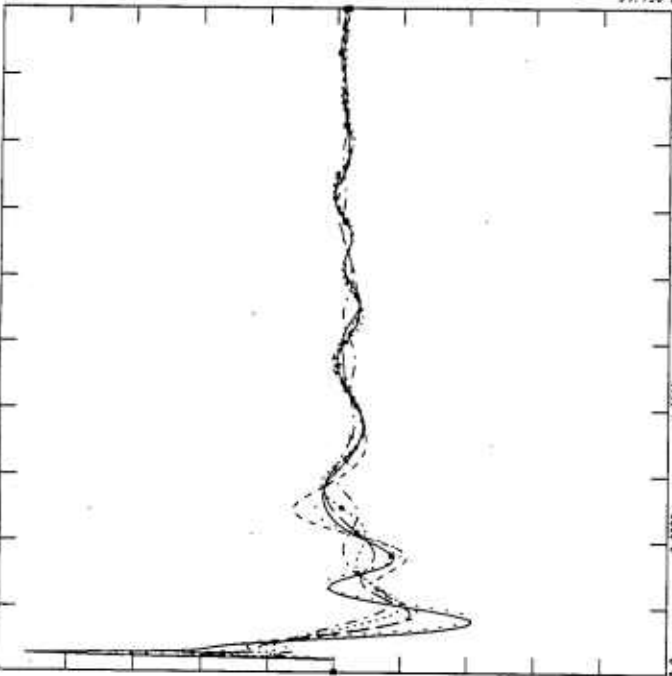
FRI, MAR 31 2000 16:15
RUN D3A PLOT 11



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW3RUND3A.OUT
CHNL = 705: 60-11-CFREQ 23003 (ALBUNT15500.0077)

60.250 CHNL = 704: 60-11-CFREQ 4327 (FARRAGUT345.0077) 59.750
60.250 CHNL = 703: 60-11-CFREQ 3105 (LONG MTN345.0077) 59.750
60.250 CHNL = 702: 60-11-CFREQ 9577 (HARC765765.0077) 59.750
60.250 CHNL = 701: 60-11-CFREQ 5403 (FARRAGUT345.0077) 59.750
60.250 CHNL = 700: 60-11-CFREQ 4347 (FARRAGUT 345.0077) 59.750



FRI, MAR 31 2000 16:15
RUN D3A PLOT 14

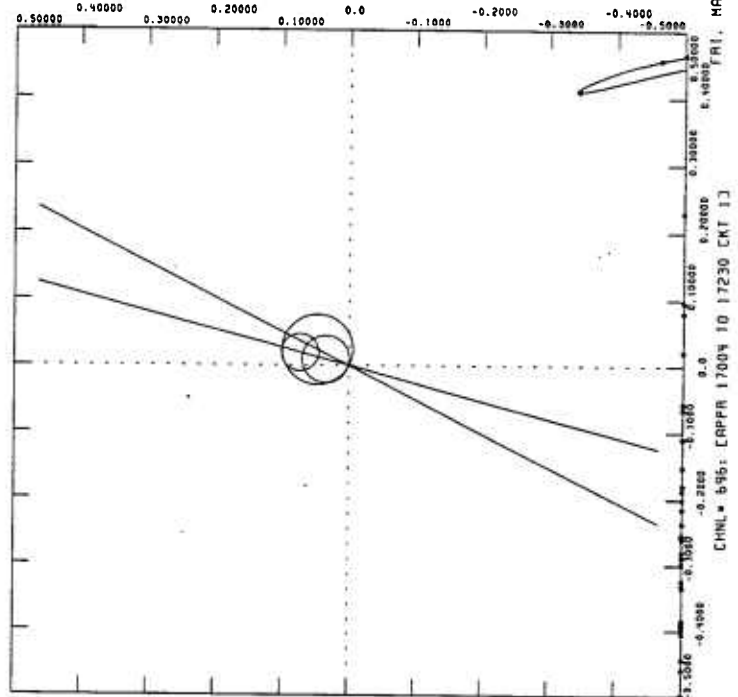


CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW3RUND3A.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13



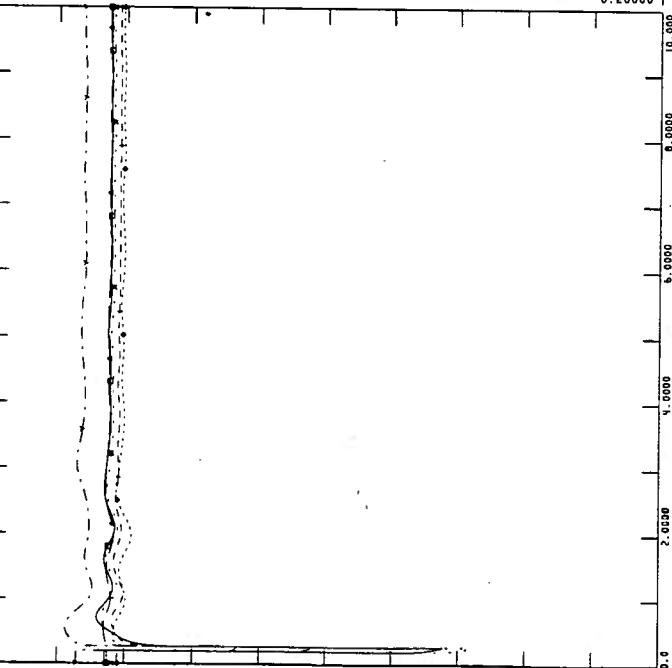
FRI, MAR 31 2000 16:15
RUN D3A PLOT 15



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW3RUND3A.OUT
CHNL = 651: CVOLT 23003 (ALBUNT15500.0077)

1.2000 CHNL = 508: CVOLT 4327 (FARRAGUT345.0077) 0.20000
1.2000 CHNL = 636: CVOLT 3105 (LONG MTN345.0077) 0.20000
1.2000 CHNL = 572: CVOLT 9577 (HARC765765.0077) 0.20000
1.2000 CHNL = 545: CVOLT 5403 (FARRAGUT345.0077) 0.20000
1.2000 CHNL = 528: CVOLT 4347 (FARRAGUT 345.0077) 0.20000



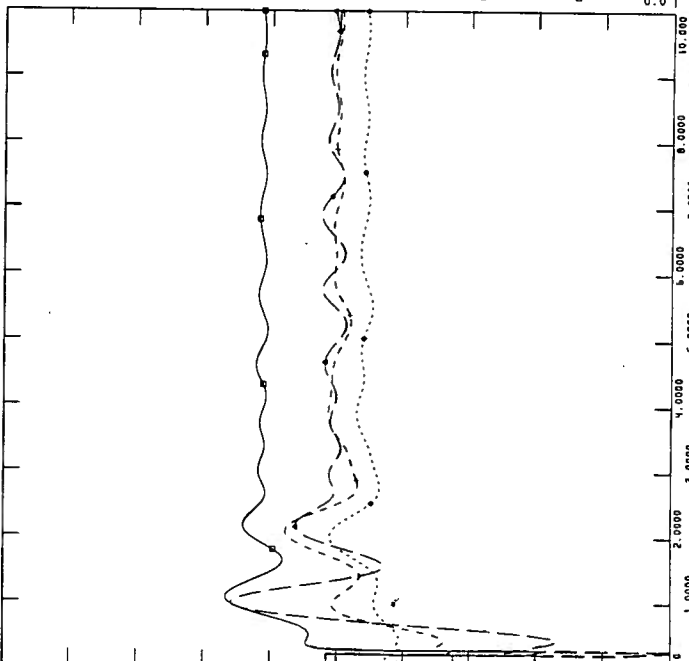
FRI, MAR 31 2000 16:15
RUN D3A PLOT 13



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW3RUND3A.OUT

10000. CHNL = 690: CMW TOTAL EAST 0.0
5000.0 CHNL = 689: CMW CENTRAL EAST 0.0
6000.0 CHNL = 688: CMW UPNY TO SENY 1000.0
10000. CHNL = 687: CMW UPNY TO CONED 0.0



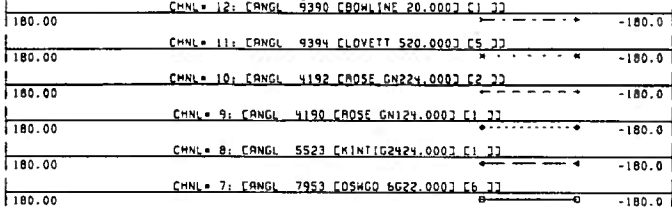
FRI, MAR 31 2000 16:15
RUN D3A PLOT 16

CONTINGENCY D4A

RECOVER FROM D1.SNP AND DW3.CNV
START OUTPUT DW3RUND4A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4347 CKT 1 / TRIP LADENTOWN-RAMAPO
CLEAR FAULT
RUN FOR 31 CYCLES PRINT 0 PLOT 3
APPLY FAULT BUS 4347 IMPEDANCE 0.119 2.642 OHMS BASEKV 345 / RECLOSE AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



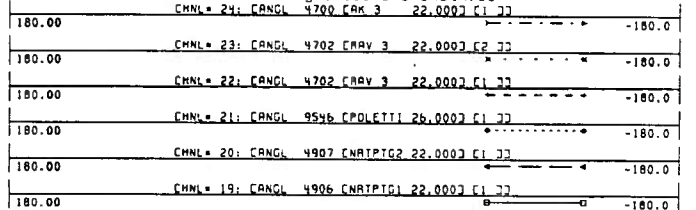
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\ndynamics\DW3RUND4A.OUT
CHNL = 12: CANGL 9390 CBOVLINE 20.0000 C1 JJ



FRI, MAR 31 2000 16:15
RUN D4A PLOT 2



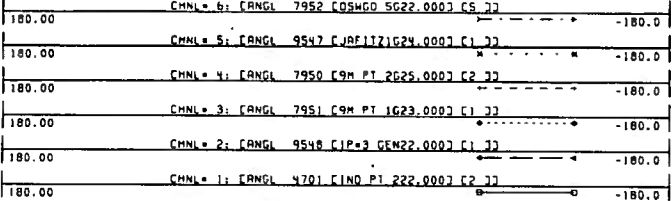
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\ndynamics\DW3RUND4A.OUT
CHNL = 24: CANGL 4700 CAX 3 22.0000 C1 JJ



FRI, MAR 31 2000 16:15
RUN D4A PLOT 4



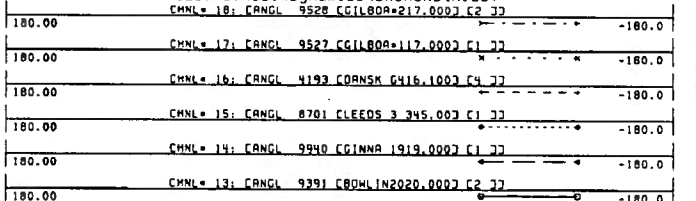
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\ndynamics\DW3RUND4A.OUT
CHNL = 6: CANGL 7952 COSHGO 5622.0000 C5 JJ



FRI, MAR 31 2000 16:15
RUN D4A PLOT 1

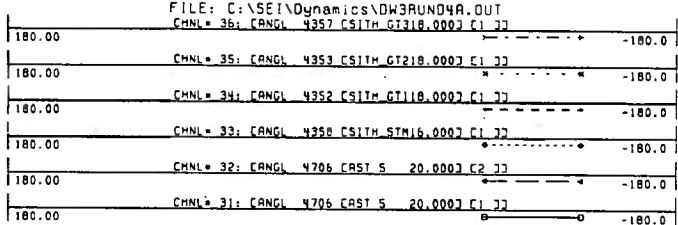


CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\ndynamics\DW3RUND4A.OUT
CHNL = 18: CANGL 9528 CGILBOA 217.0000 C2 JJ



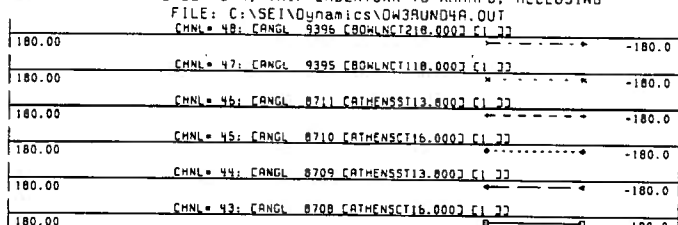
FRI, MAR 31 2000 16:15
RUN D4A PLOT 3

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAHAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW3RUND4A.OUT
CHNL = 35: CANGL 4353 CSITH GT18.0007 C1 JJ



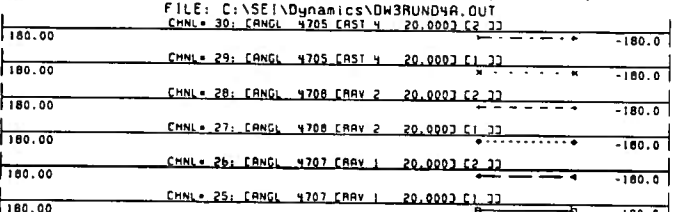
FRI, MAR 31 2000 16:15
RUN D4A PLOT 6

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAHAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW3RUND4A.OUT
CHNL = 48: CANGL 9396 CBOWLNC118.0007 C1 JJ



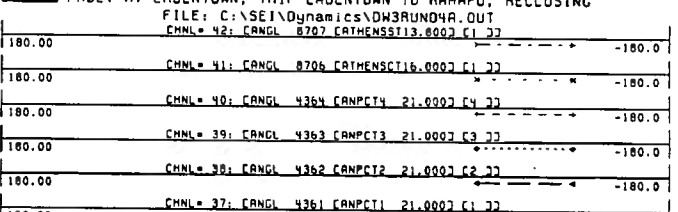
FRI, MAR 31 2000 16:15
RUN D4A PLOT 8

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAHAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW3RUND4A.OUT
CHNL = 30: CANGL 4705 CAST 4 20.0007 C2 JJ



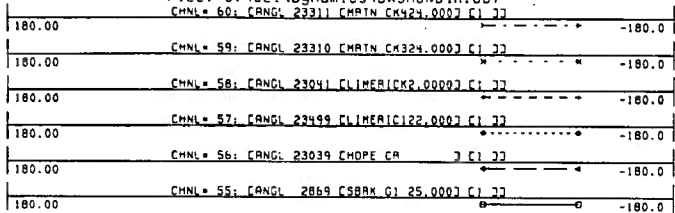
FRI, MAR 31 2000 16:15
RUN D4A PLOT 5

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAHAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW3RUND4A.OUT
CHNL = 42: CANGL 8707 CATHEMSCT13.0007 C1 JJ



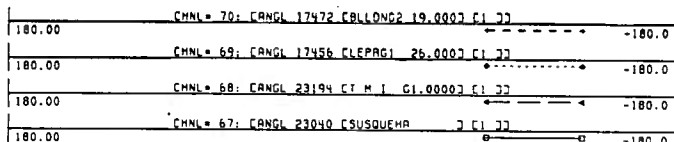
FRI, MAR 31 2000 16:15
RUN D4A PLOT 7

CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\Dynamic\DW3AUND4A.OUT
 CHNL = 60: CANGI 23311 CHAIN CK424.0007 C1 JJ



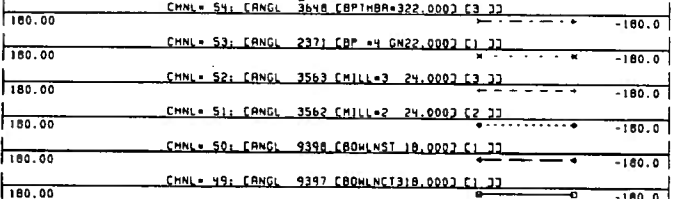
FRI, MAR 31 2000 16:15
 RUN D4A PLOT 10

CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\Dynamic\DW3AUND4A.OUT



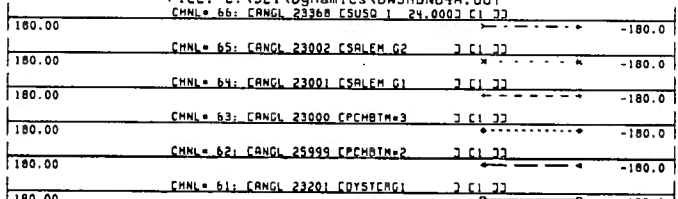
FRI, MAR 31 2000 16:15
 RUN D4A PLOT 12

CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\Dynamic\DW3AUND4A.OUT
 CHNL = 54: CANGI 3648 CBPTBAK322.0007 C3 JJ



FRI, MAR 31 2000 16:15
 RUN D4A PLOT 9

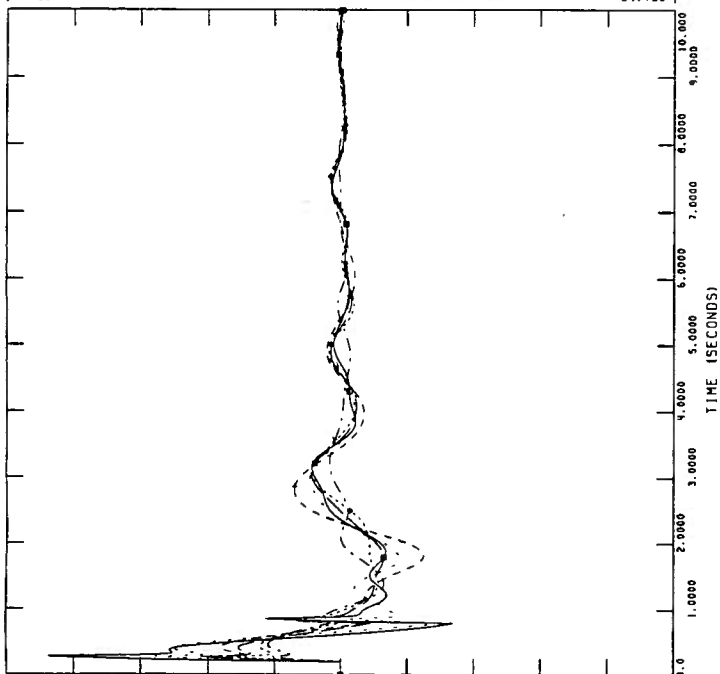
CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\Dynamic\DW3AUND4A.OUT
 CHNL = 66: CANGI 23368 CSUSQ 1 24.0007 C1 JJ



FRI, MAR 31 2000 16:15
 RUN D4A PLOT 11

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW3RUND4A.OUT
CHNL = 705: 60*(1)*CFREQ 23003 (CALBUT15500.0072)

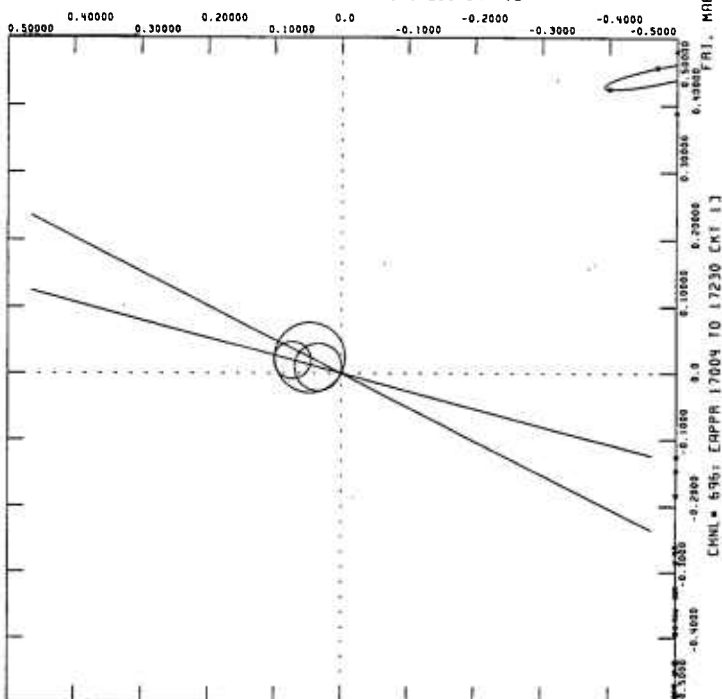
60.250 CHNL = 704: 60*(1)*CFREQ 4327 (FARRAGUT345.0072) 59.750
60.250 CHNL = 703: 60*(1)*CFREQ 3105 (LONG MTN345.0072) 59.750
60.250 CHNL = 702: 60*(1)*CFREQ 9577 (MARCY765765.0072) 59.750
60.250 CHNL = 701: 60*(1)*CFREQ 5403 (FARRAS345345.0072) 59.750
60.250 CHNL = 700: 60*(1)*CFREQ 4347 (RAMAPO 345.0072) 59.750



FRI, MAR 31 2000 16:15
RUN D4A PLOT 14

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW3RUND4A.OUT

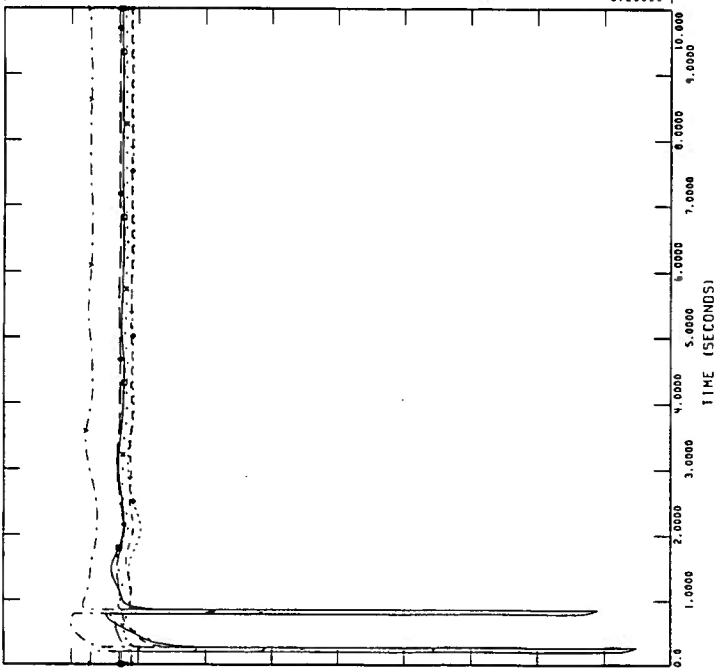
RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: EAPPX 17004 TO 17230 CKT 13



FRI, MAR 31 2000 16:15
RUN D4A PLOT 15

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW3RUND4A.OUT
CHNL = 651: CYOLT 23003 (CALBUT15500.0072)

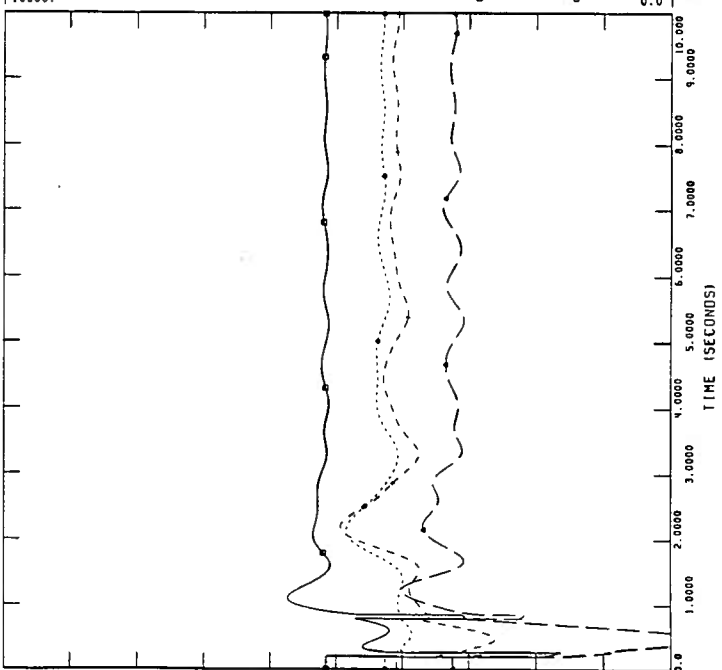
1.2000 CHNL = 508: CYOLT 4327 (FARRAGUT345.0072) 0.20000
1.2000 CHNL = 636: CYOLT 3105 (LONG MTN345.0072) 0.20000
1.2000 CHNL = 572: CYOLT 9577 (MARCY765765.0072) 0.20000
1.2000 CHNL = 545: CYOLT 5403 (FARRAS345345.0072) 0.20000
1.2000 CHNL = 528: CYOLT 4347 (RAMAPO 345.0072) 0.20000



FRI, MAR 31 2000 16:15
RUN D4A PLOT 13

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW3RUND4A.OUT

CHNL = 690: CMW TOTAL EAST
CHNL = 689: CMW CENTRAL EAST
CHNL = 688: CMW UPNY TO SENY
CHNL = 687: CMW UPNY TO CONED



FRI, MAR 31 2000 16:15
RUN D4A PLOT 16

CONTINGENCY D4B

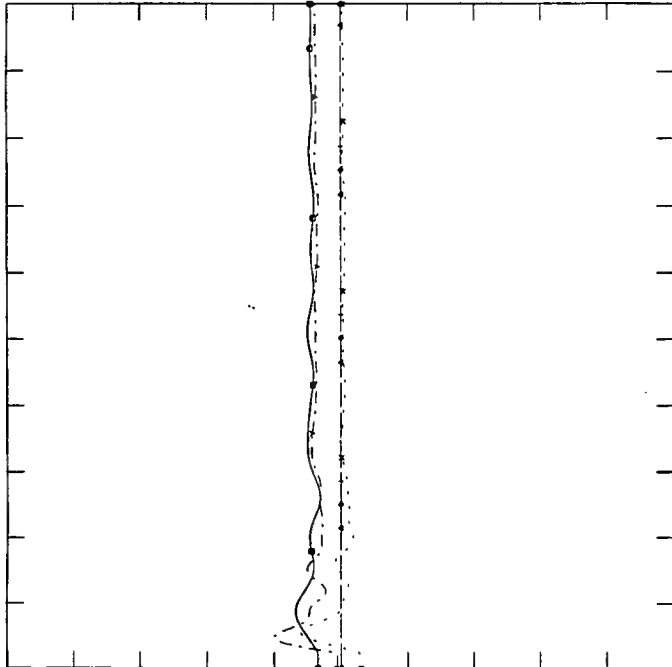
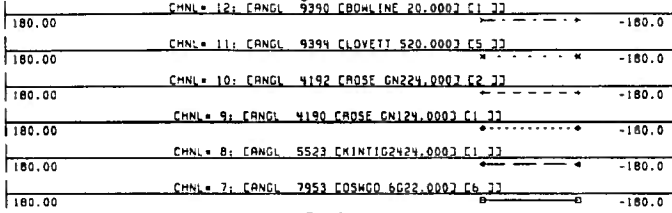
RECOVER FROM D1.SNP AND DW3.CNV
START OUTPUT DW3RUND4B.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DW3RUN048.OUT

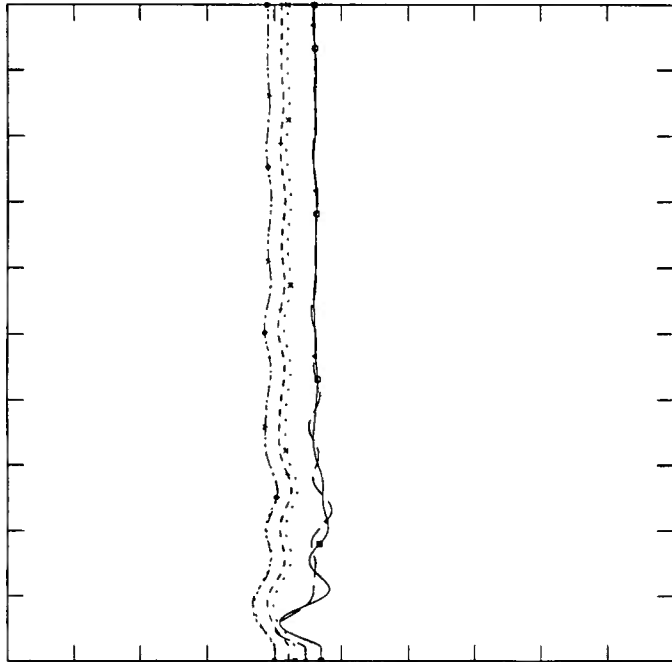
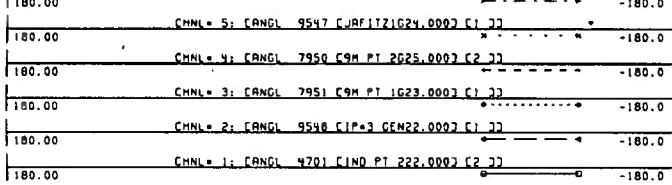
CHNL= 12: CANGL 9390 CBOUWLINE 20.0000 C1 JJ



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DW3RUN048.OUT

CHNL= 6: CANGL 7952 CASHGO 5622.0000 C5 JJ



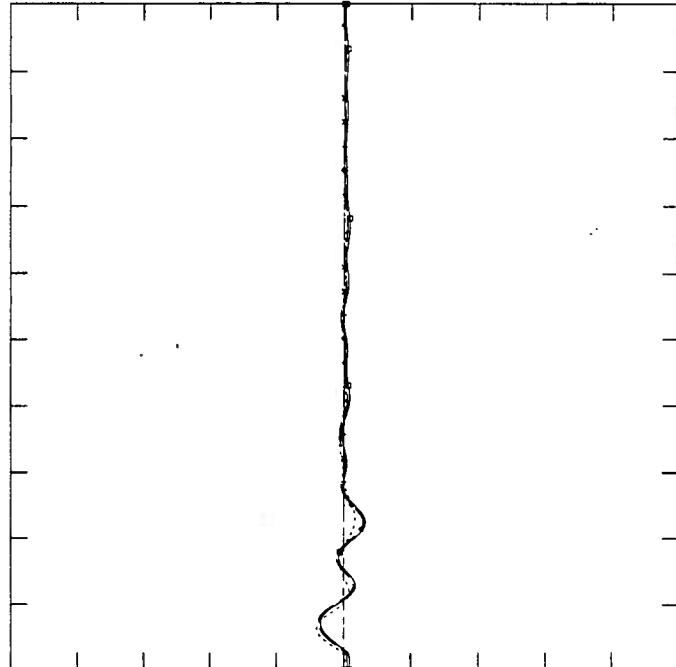
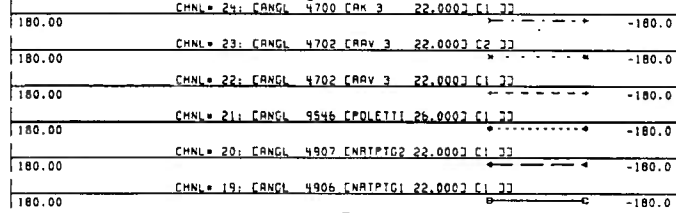
FRI, MAR 31 2000 16:43
RUN 048 PLOT 2



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DW3RUN048.OUT

CHNL= 23: CANGL 4702 CARV 3 22.0000 C2 JJ



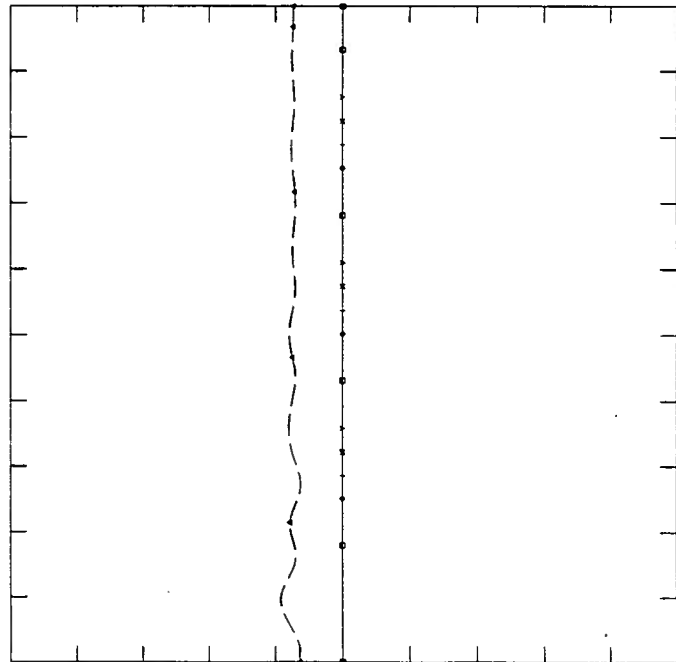
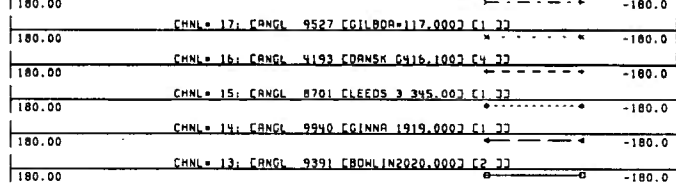
FRI, MAR 31 2000 16:43
RUN 048 PLOT 4



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DW3RUN048.OUT

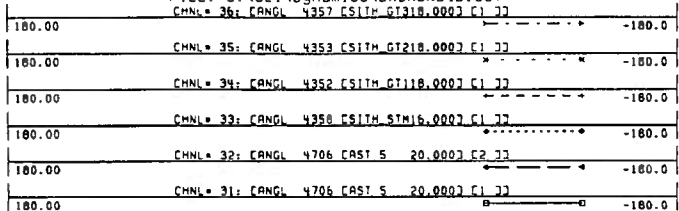
CHNL= 18: CANGL 9528 CGILBOA 217.0000 C2 JJ



FRI, MAR 31 2000 16:43
RUN 048 PLOT 3



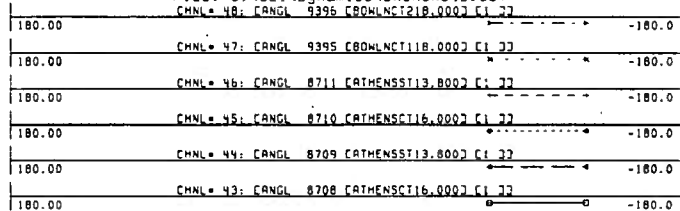
CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW3RUN048.OUT
CHNL = 36: CANGL 4357 CSITH GT18.000 C1 JJ



FRI, MAR 31 2000 16:43
RUN 048 PLOT 6



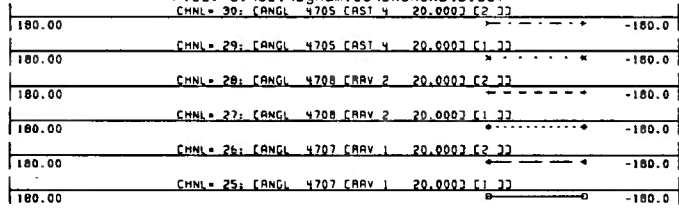
CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW3RUN048.OUT
CHNL = 48: CANGL 9395 C80WLNCT118.000 C1 JJ



FRI, MAR 31 2000 16:43
RUN 048 PLOT 7



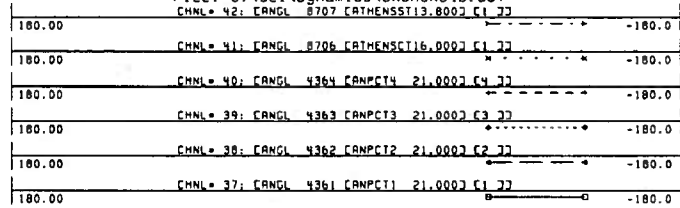
CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW3RUN048.OUT
CHNL = 39: CANGL 4705 CAST 4 20.000 C2 JJ



FRI, MAR 31 2000 16:43
RUN 048 PLOT 8



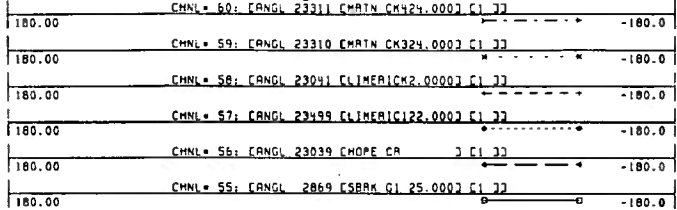
CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW3RUN048.OUT
CHNL = 42: CANGL 8707 CATHENSST13.800 C1 JJ



FRI, MAR 31 2000 16:43
RUN 048 PLOT 9



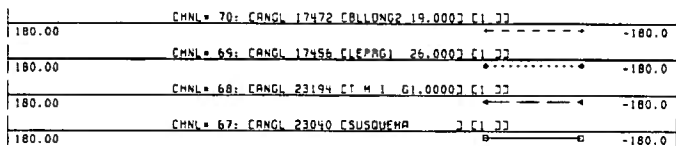
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW3RUND4B.OUT
CHNL = 59: CANGL 23310 CMATN CM324.0002 C1 JJ



FRI, MAR 31 2000 16:43
RUN D4B PLOT 10



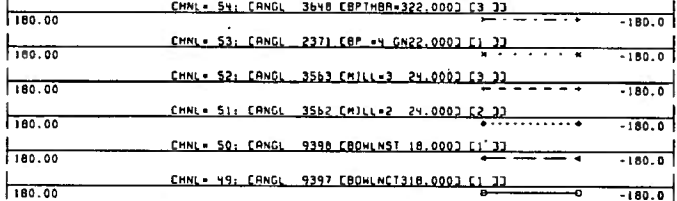
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW3RUND4B.OUT
CHNL = 70: CANGL 17472 CILLONG2 19.0002 C1 JJ



FRI, MAR 31 2000 16:43
RUN D4B PLOT 12



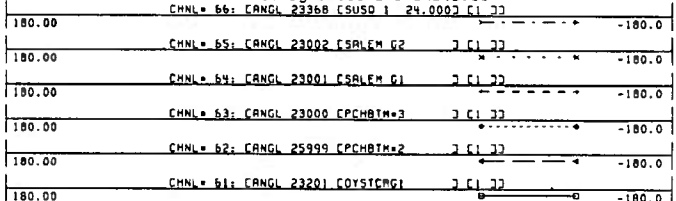
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW3RUND4B.OUT
CHNL = 54: CANGL 3848 CPPTMBA 322.0002 C3 JJ



FRI, MAR 31 2000 16:43
RUN D4B PLOT 9



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW3RUND4B.OUT
CHNL = 65: CANGL 23002 CSALEM G2 JJ JJ

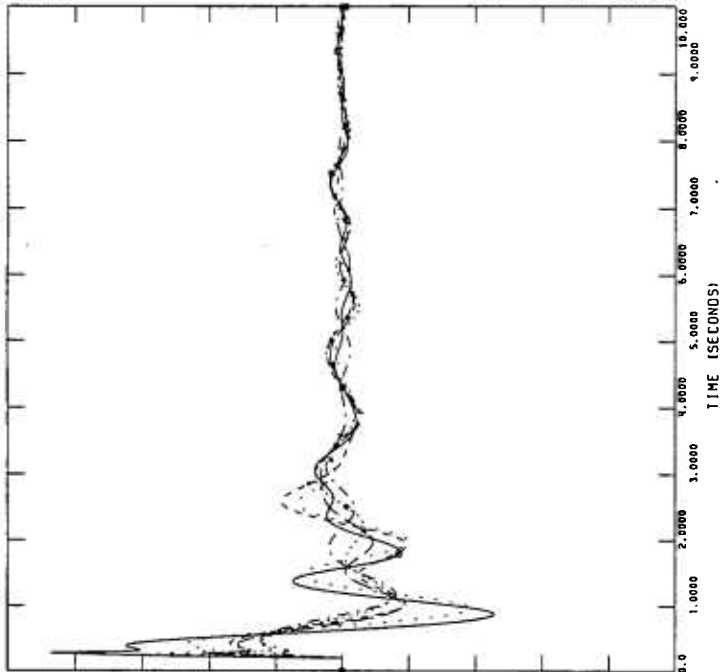


FRI, MAR 31 2000 16:43
RUN D4B PLOT 11

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DW3RUN04B.OUT
CHNL = 705: 60-(1)-(FREQ 23003 CALBUT15500.0077)

60.250 CHNL = 704: 60-(1)-(FREQ 4327 CFARAGUT345.0077) 59.750
60.250 CHNL = 703: 60-(1)-(FREQ 7103 CLONG MTH345.0077) 59.750
60.250 CHNL = 702: 60-(1)-(FREQ 9577 CHARCY765765.0077) 59.750
60.250 CHNL = 701: 60-(1)-(FREQ 5403 CFARAS345345.0077) 59.750
60.250 CHNL = 700: 60-(1)-(FREQ 4347 CFARAPD 345.0077) 59.750



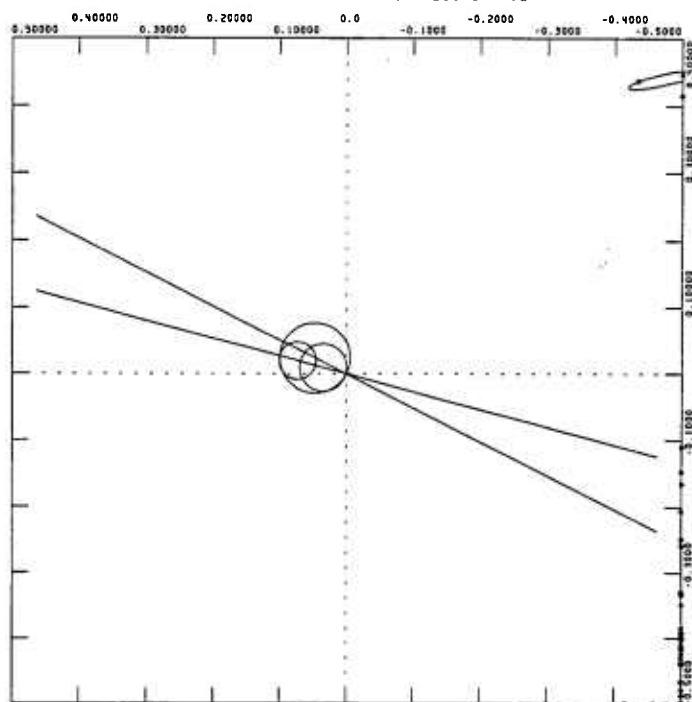
FRI, MAR 31 2000 16:43
RUN D4B PLOT 14

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DW3RUN04B.OUT

RELAY: DISTR

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

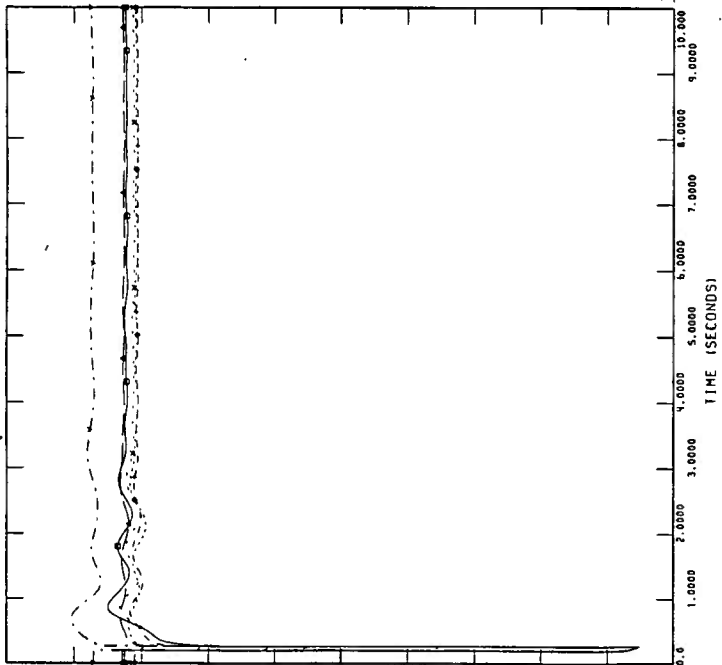


FRI, MAR 31 2000 16:43
RUN D4B PLOT 15

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DW3RUN04B.OUT
CHNL = 651: CVOLT 23003 CALBUT15500.0077

1.2000 CHNL = 508: CVOLT 4327 CFARAGUT345.0077 0.20000
1.2000 CHNL = 638: CVOLT 3103 CLONG MTH345.0077 0.20000
1.2000 CHNL = 572: CVOLT 9577 CHARCY765765.0077 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARAS345345.0077 0.20000
1.2000 CHNL = 520: CVOLT 4347 CFARAPD 345.0077 0.20000

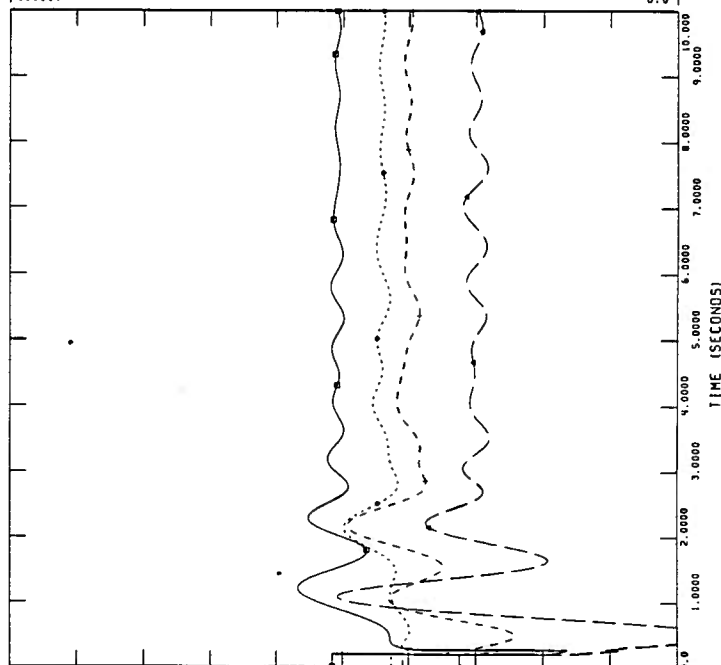


FRI, MAR 31 2000 16:43
RUN D4B PLOT 16

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN

FILE: C:\SEI\Dynamic\DW3RUN04B.OUT

CHNL = 690: CMW TOTAL EAST] 0.0
CHNL = 689: CMW CENTRAL EAST] 0.0
CHNL = 688: CMW UPNY TO SENY] 1000.0
CHNL = 687: CMW UPNY TO CONED] 0.0



FRI, MAR 31 2000 16:43
RUN D4B PLOT 17

CONTINGENCY D4C

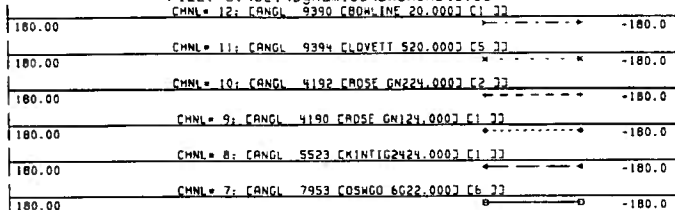
RECOVER FROM D1.SNP AND DW3.CNV
START OUTPUT DW3RUND4C.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4312 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN N
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4312 TO BUS 4317 CKT 1 / TRIP BUCHANAN-EASTVIEW
TRIP BRANCH FROM BUS 4317 TO BUS 4428 CKT 1 / TRIP EASTVIEW XFMR
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\dynamic\DW3RUND4C.OUT

CHNL = 12: CANGL 9390 CRO4 INF 20.0007 C1 JJ



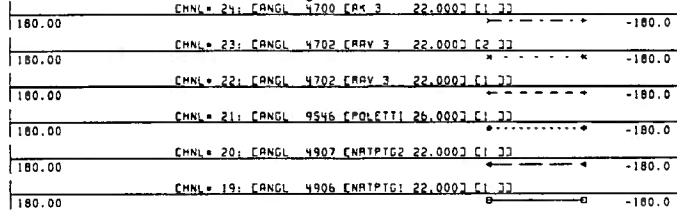
FRI, MAR 31 2000 16:43
RUN D4C PLOT 2



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\dynamic\DW3RUND4C.OUT

CHNL = 23: CANGL 4702 CRY 3 22.0007 C2 JJ



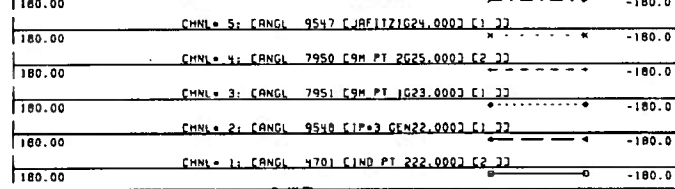
FRI, MAR 31 2000 16:43
RUN D4C PLOT 4



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\dynamic\DW3RUND4C.OUT

CHNL = 6: CANGL 7952 C05HGO 5G22.0007 C5 JJ



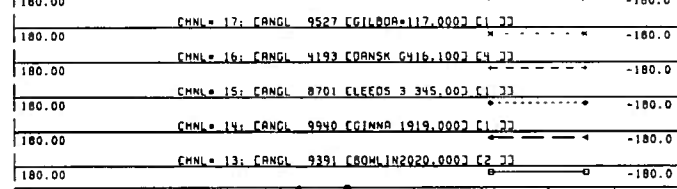
FRI, MAR 31 2000 16:43
RUN D4C PLOT 1



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\dynamic\DW3RUND4C.OUT

CHNL = 18: CANGL 9528 C61L80A=217.0007 C2 JJ

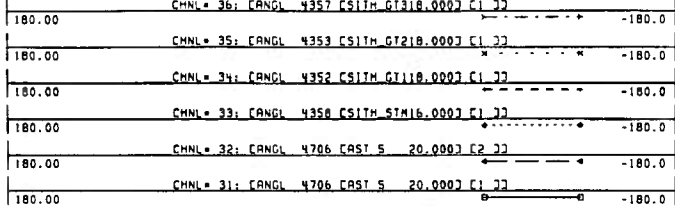


FRI, MAR 31 2000 16:43
RUN D4C PLOT 3



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DW3RUND4C.OUT
CHNL = 36: CANGL 4357 CSITH GT18.0007 C1 JJ

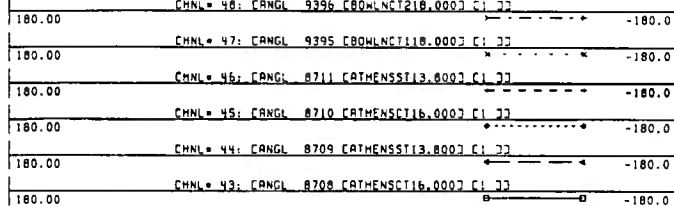


FRI, MAR 31 2000 16:43
RUN D4C PLOT 6



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DW3RUND4C.OUT
CHNL = 48: CANGL 9396 CBOWLNC118.0007 C1 JJ

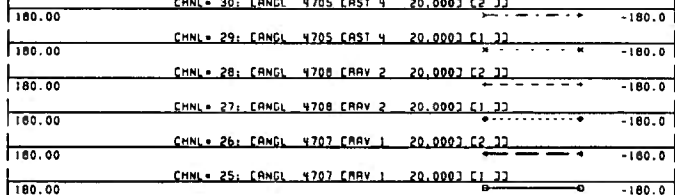


FRI, MAR 31 2000 16:43
RUN D4C PLOT 8



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DW3RUND4C.OUT
CHNL = 30: CANGL 4705 CAST 4 20.0007 C2 JJ

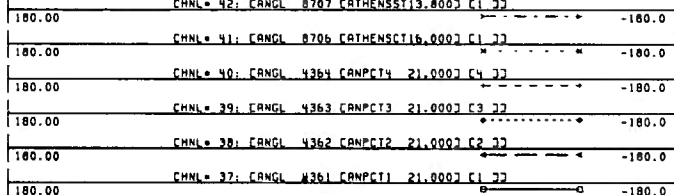


FRI, MAR 31 2000 16:43
RUN D4C PLOT 5



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DW3RUND4C.OUT
CHNL = 42: CANGL 8707 CATHENSST13.8007 C1 JJ

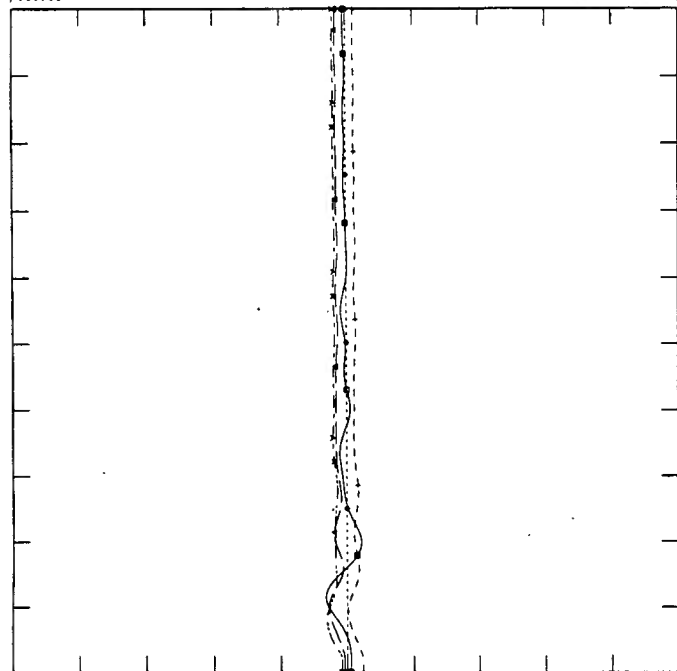


FRI, MAR 31 2000 16:43
RUN D4C PLOT 7



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW3AUND4C.OUT
CHNL = 60: CANGL 23311 CHAIN CM24.0000 C1 JJ

180.00 CHNL = 59: CANGL 23310 CHAIN CM24.0000 C1 JJ
180.00 CHNL = 58: CANGL 23041 CLIMERIC2.0000 C1 JJ
180.00 CHNL = 57: CANGL 23499 CLIMERIC122.0000 C1 JJ
180.00 CHNL = 56: CANGL 23039 CHOPE CA 7 C1 JJ
180.00 CHNL = 55: CANGL 2869 CSARK C1 25.0000 C1 JJ

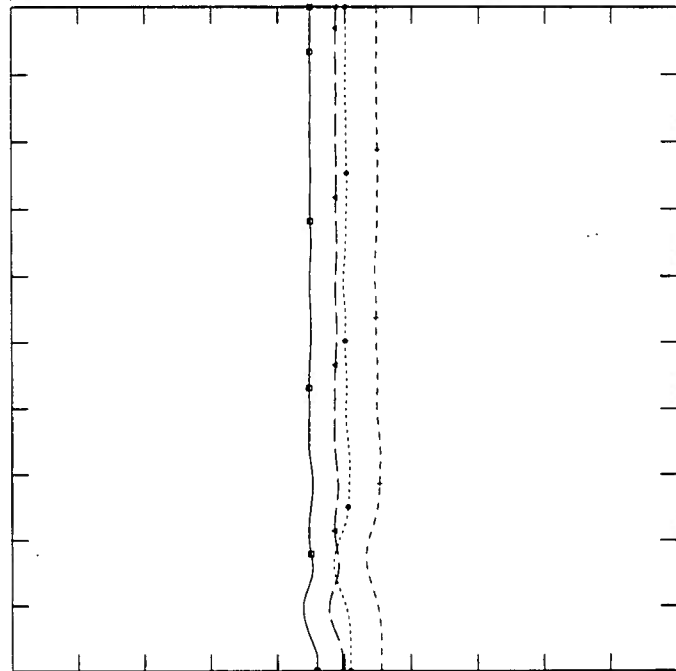


FRI, MAR 31 2000 16:43
RUN 04C PLOT 10



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW3AUND4C.OUT

CHNL = 70: CANGL 17472 CBLONG2 19.0000 C1 JJ
CHNL = 69: CANGL 17456 CLEPAGI 26.0000 C1 JJ
CHNL = 68: CANGL 23194 CT M 1 G1.00000 C1 JJ
CHNL = 67: CANGL 23040 CSUSQUEHA 7 C1 JJ

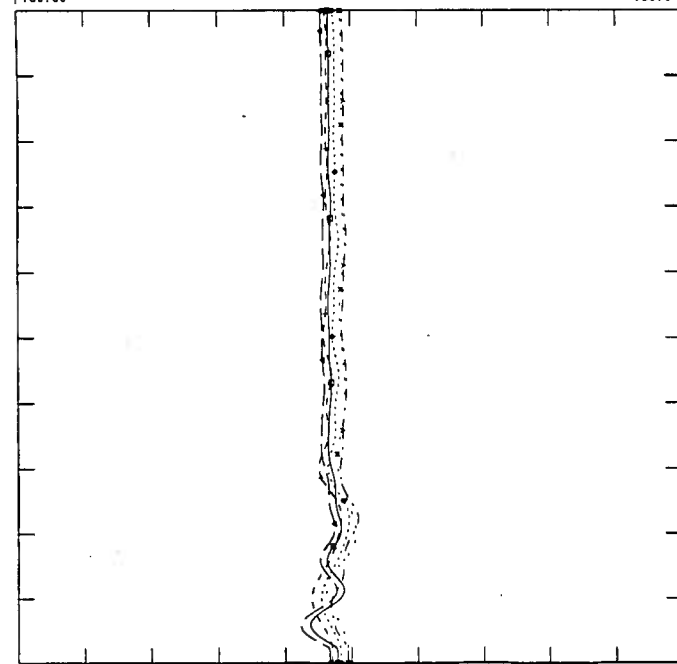


FRI, MAR 31 2000 16:43
RUN 04C PLOT 12



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW3AUND4C.OUT
CHNL = 54: CANGL 3648 BPTMBA322.0000 C3 JJ

180.00 CHNL = 53: CANGL 2371 CAP #4 GN22.0000 C1 JJ
180.00 CHNL = 52: CANGL 3563 CHILL#3 24.0000 C3 JJ
180.00 CHNL = 51: CANGL 3562 CHILL#2 24.0000 C2 JJ
180.00 CHNL = 50: CANGL 9398 CROWLNT 18.0000 C1 JJ
180.00 CHNL = 49: CANGL 9397 CROWLNT18.0000 C1 JJ

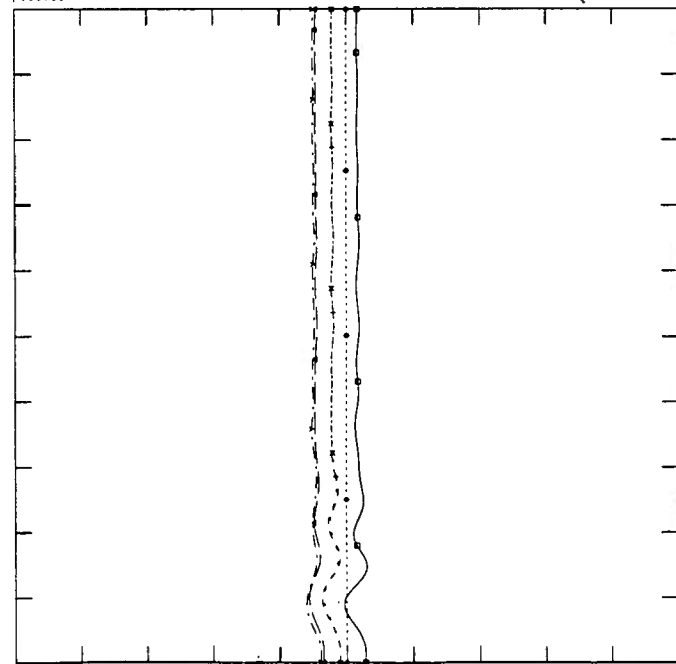


FRI, MAR 31 2000 16:43
RUN 04C PLOT 9



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN 04C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW3AUND4C.OUT
CHNL = 66: CANGL 23366 CSUSQ 1 24.0000 C1 JJ

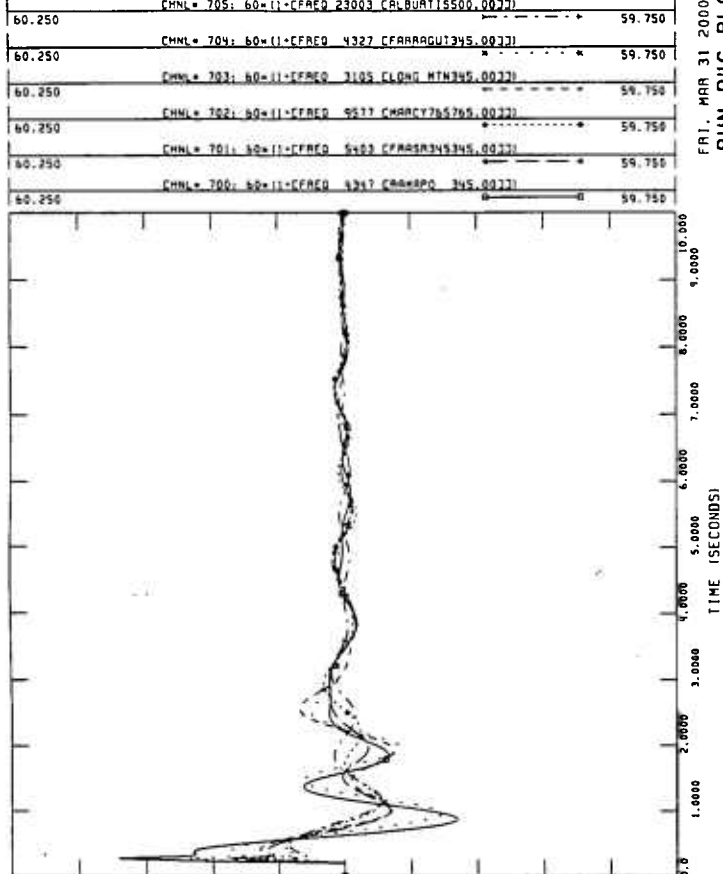
CHNL = 65: CANGL 23002 CSALEM G2 7 C1 JJ
CHNL = 64: CANGL 23001 CSALEM G1 7 C1 JJ
CHNL = 63: CANGL 23000 CPCBATH#3 7 C1 JJ
CHNL = 62: CANGL 25999 CPCBATH#2 7 C1 JJ
CHNL = 61: CANGL 23201 COTSTCAGI 7 C1 JJ



FRI, MAR 31 2000 16:43
RUN 04C PLOT 11



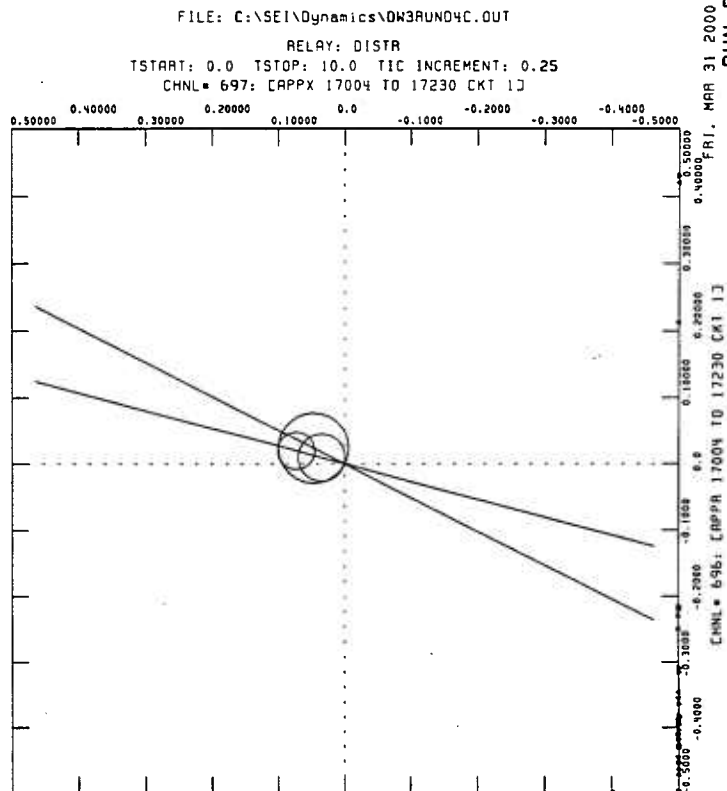
CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW3RUND4C.OUT
CHNL = 705: 60-11-CFREQ 23003 CALBUT15500.0077



FRI, MAR 31 2000 16:43
RUN D4C PLOT 14



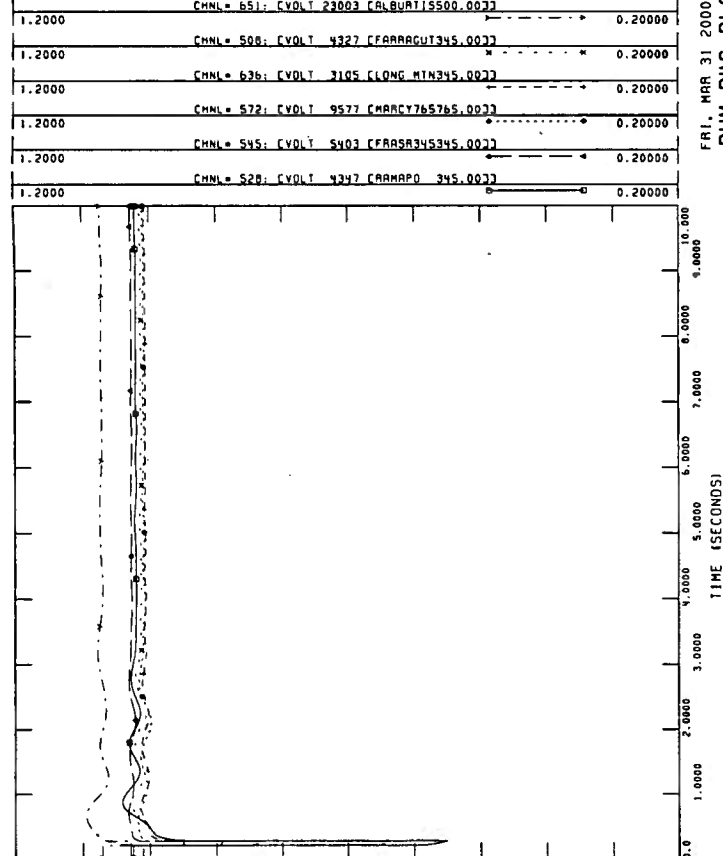
CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW3RUND4C.OUT



FRI, MAR 31 2000 16:43
RUN D4C PLOT 15



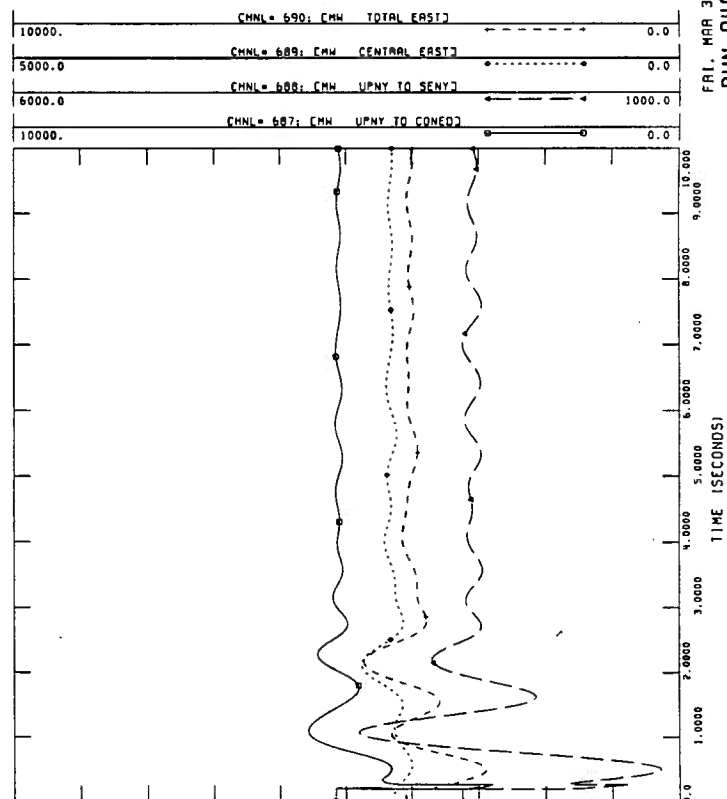
CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW3RUND4C.OUT
CHNL = 651: CVOLT 23003 CALBUT15500.0077



FRI, MAR 31 2000 16:43
RUN D4C PLOT 13



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\Dynamic\DW3RUND4C.OUT



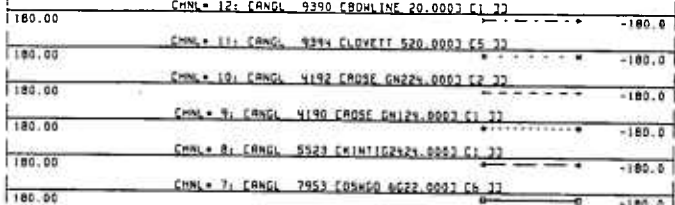
FRI, MAR 31 2000 16:43
RUN D4C PLOT 15

CONTINGENCY D5A

RECOVER FROM D1.SNP AND DW3.CNV
START OUTPUT DW3RUND5A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4313 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN S
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 1 / TRIP BUCHANAN S-MILLWOOD 1
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 2 / TRIP BUCHANAN S-MILLWOOD 2
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



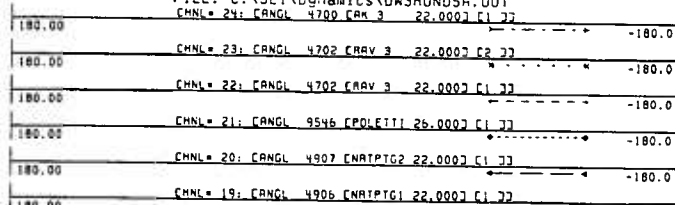
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW3RUNDSA.OUT
CHNL= 12: CANGL 9390 CROWLINE 20.0003 C1 33



FRI, MAR 31 2000 16:43
RUN DSA PLOT 2



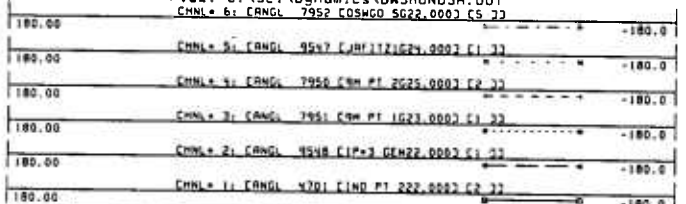
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW3RUNDSA.OUT
CHNL= 24: CANGL 4709 CAV 3 22.0003 C1 33



FRI, MAR 31 2000 16:43
RUN DSA PLOT 4



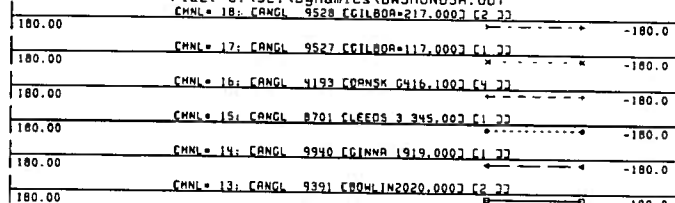
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW3RUNDSA.OUT
CHNL= 6: CANGL 7952 COWSD 5022.0003 C5 33



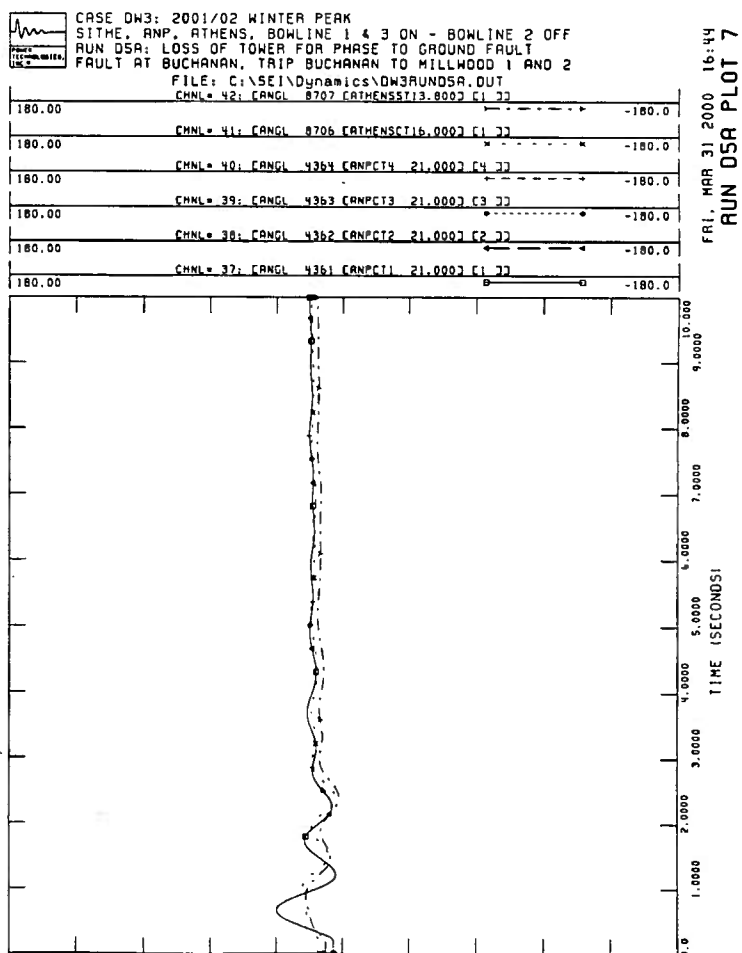
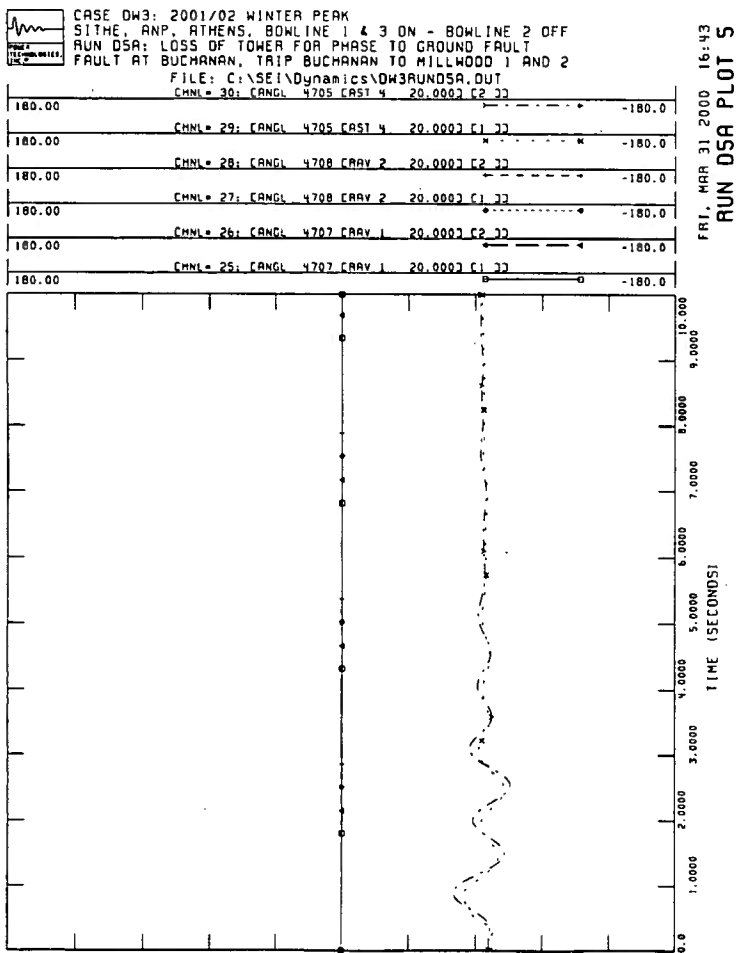
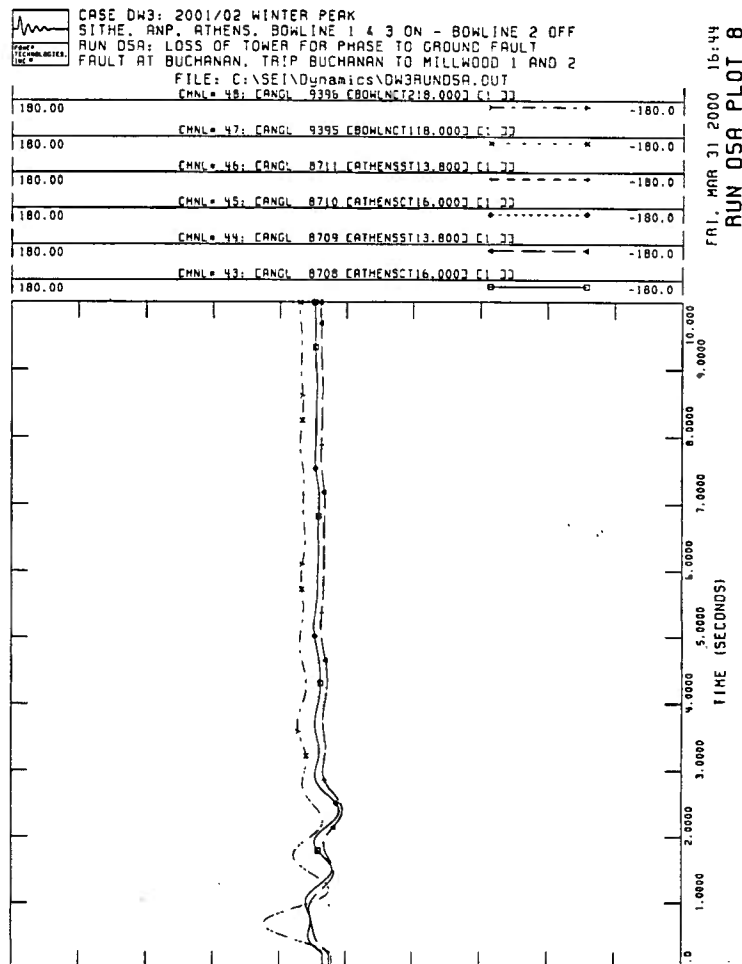
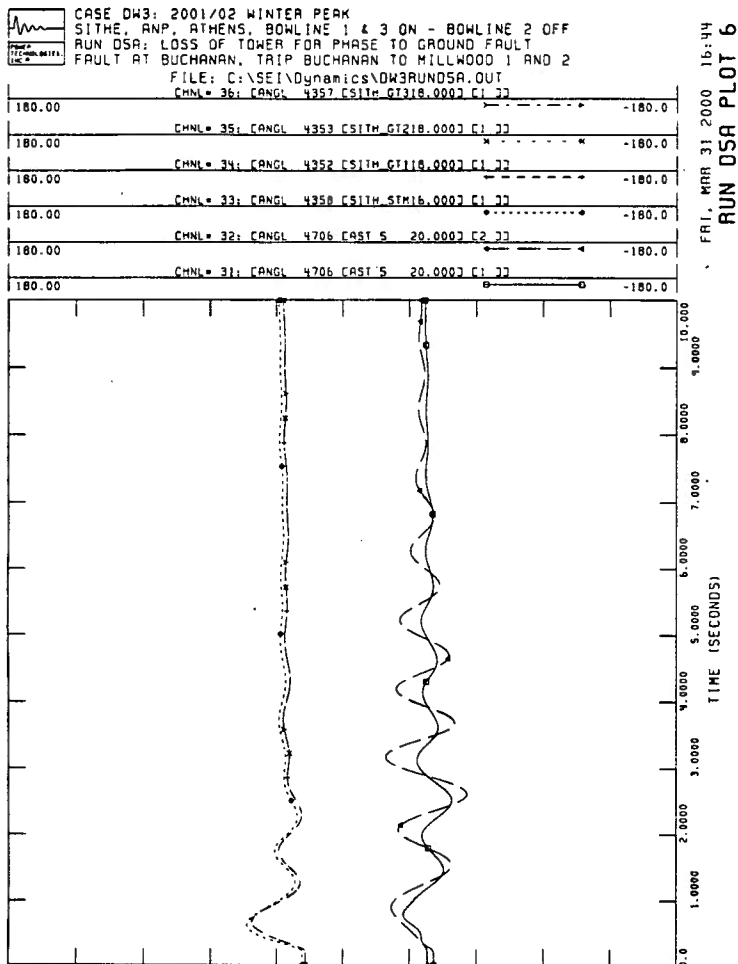
FRI, MAR 31 2000 16:43
RUN DSA PLOT 1

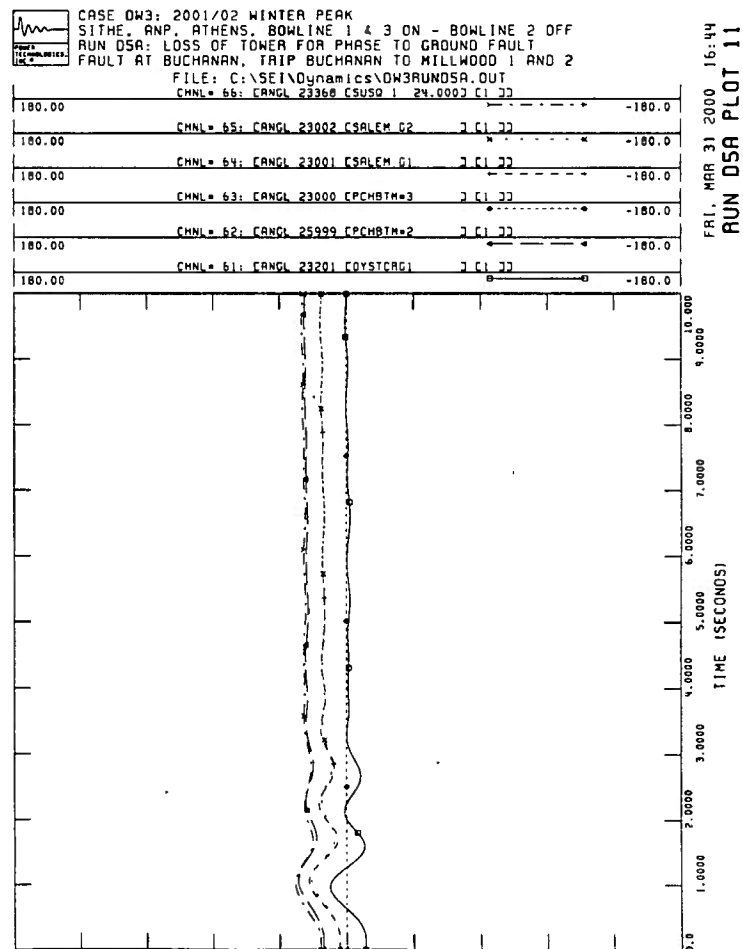
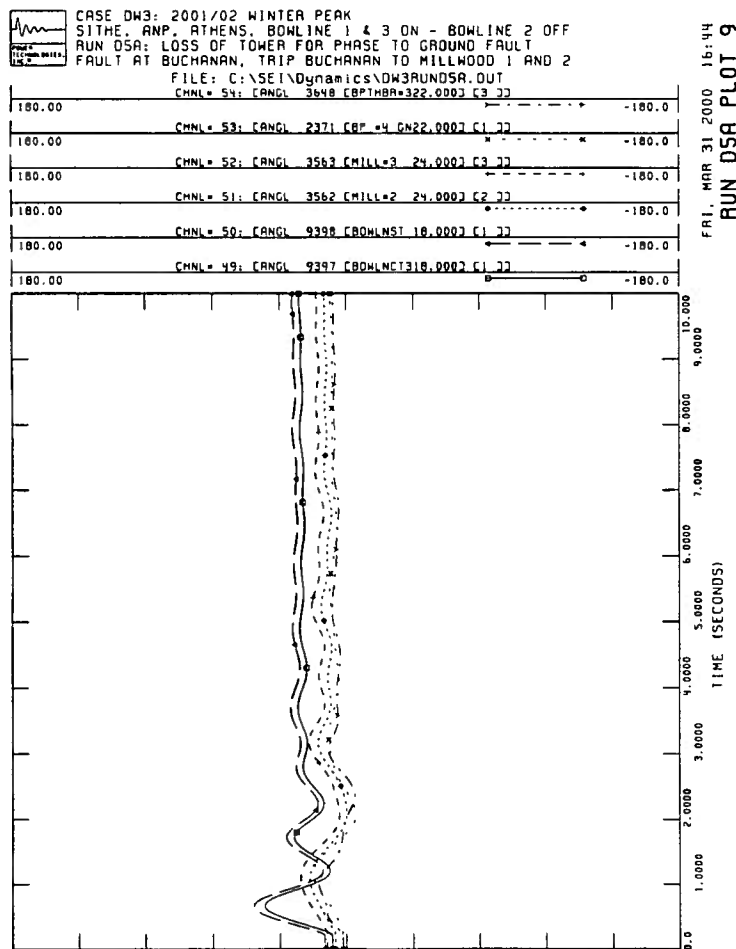
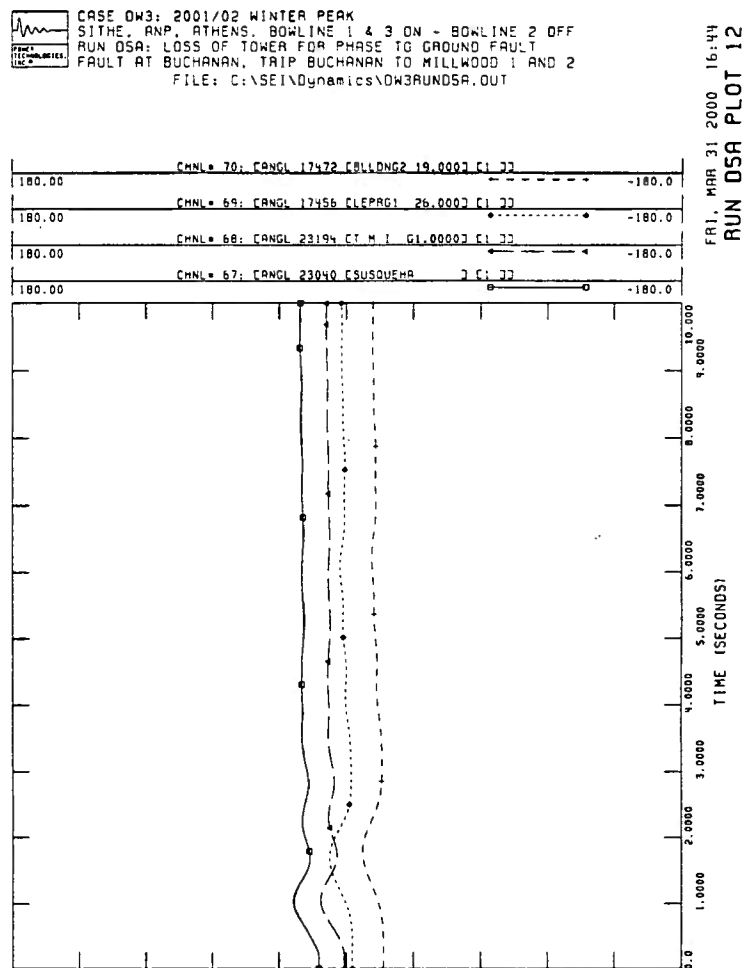
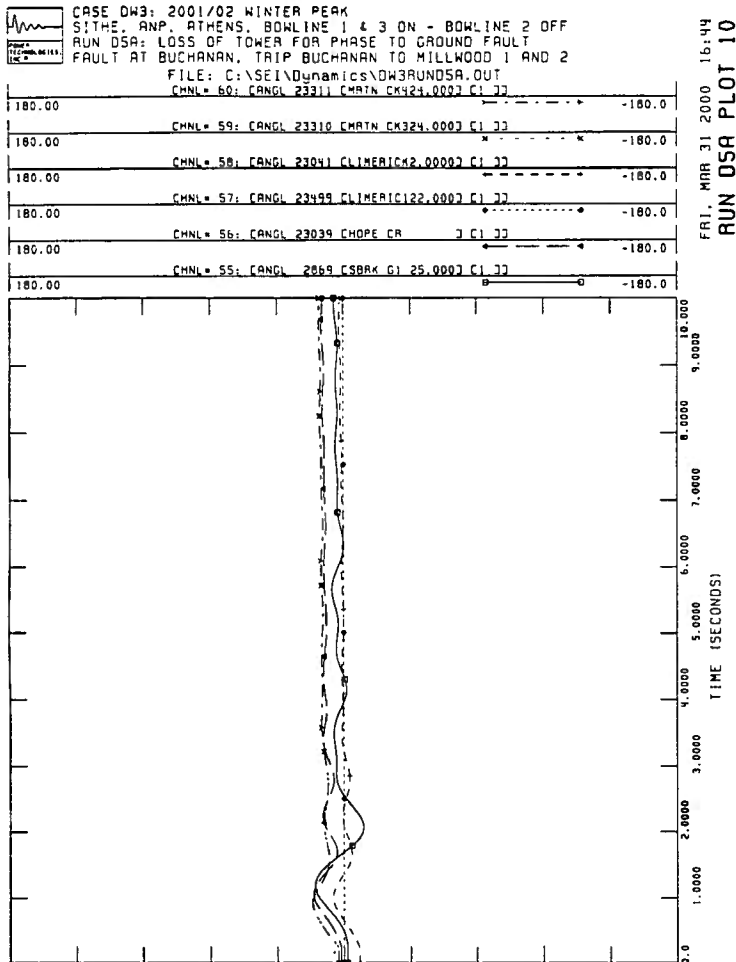


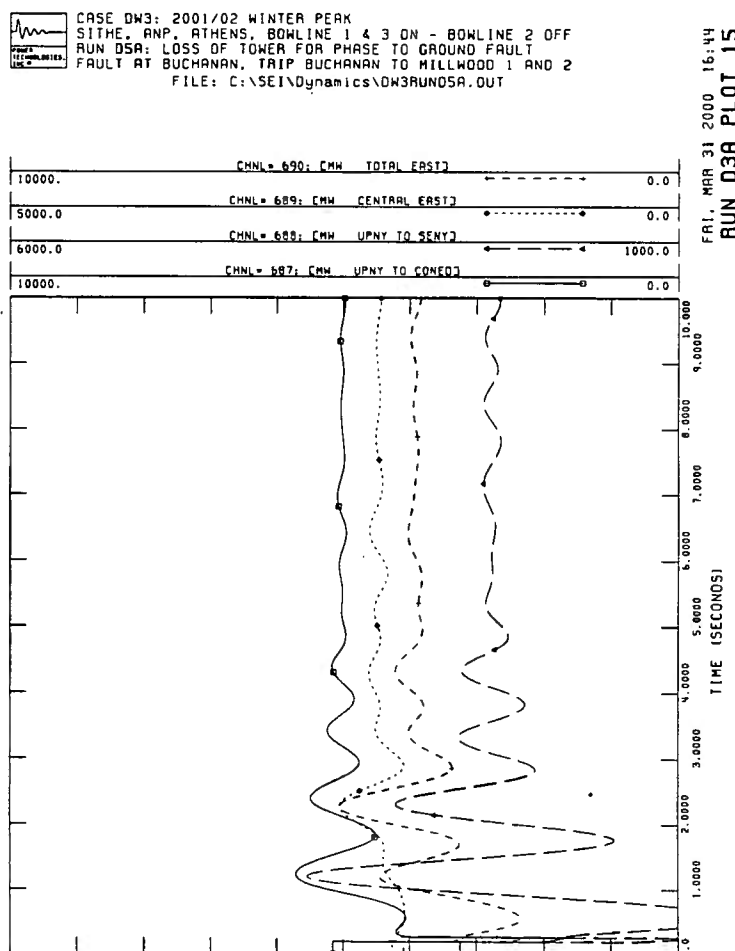
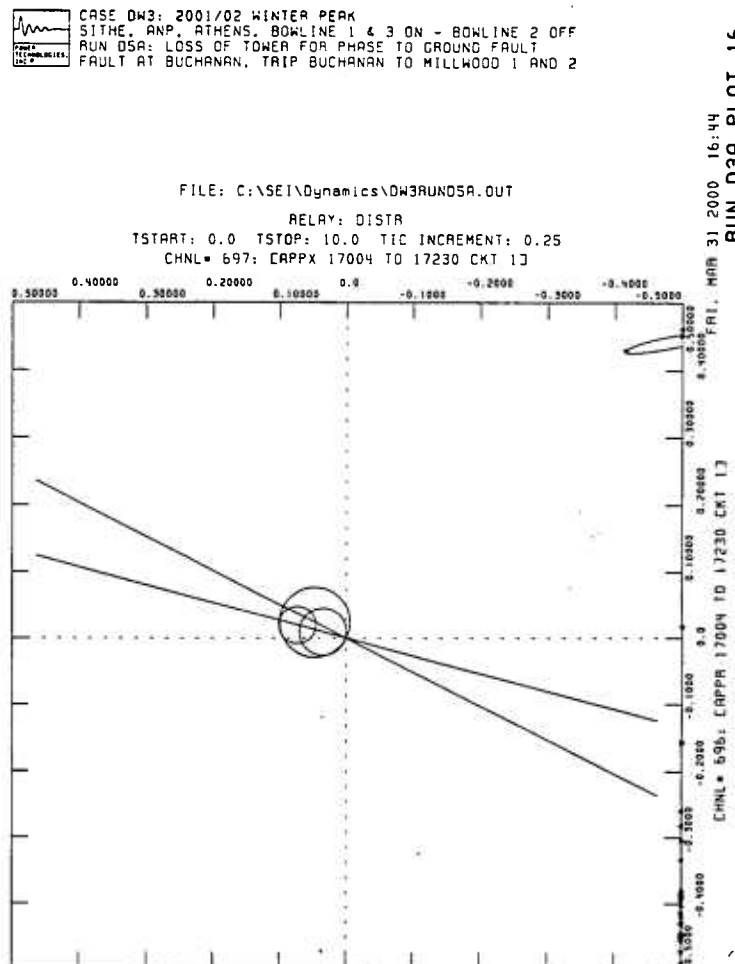
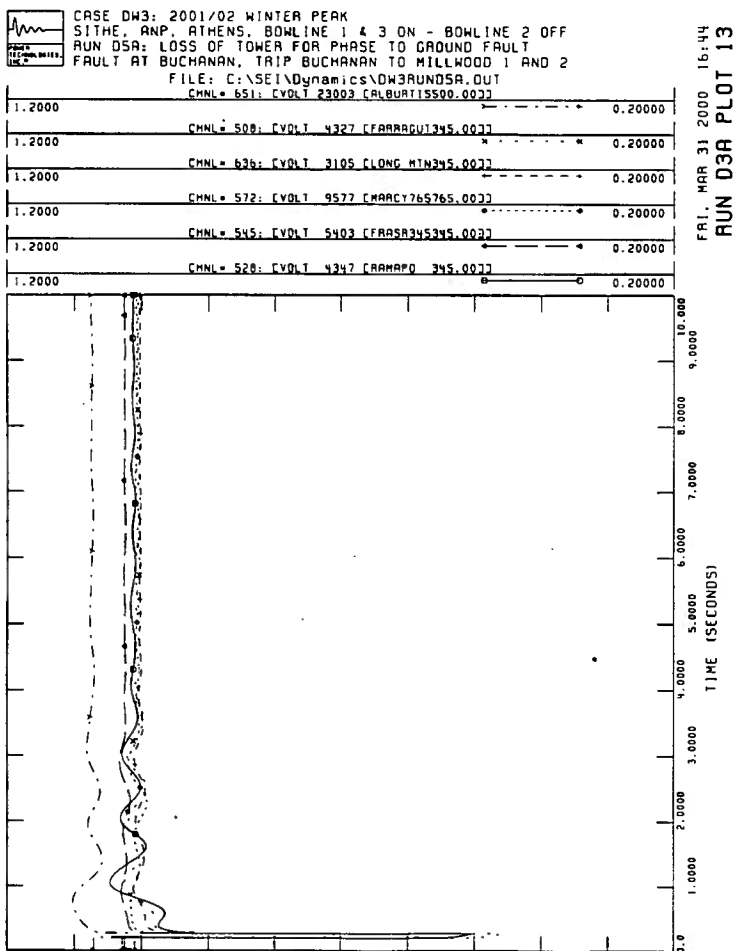
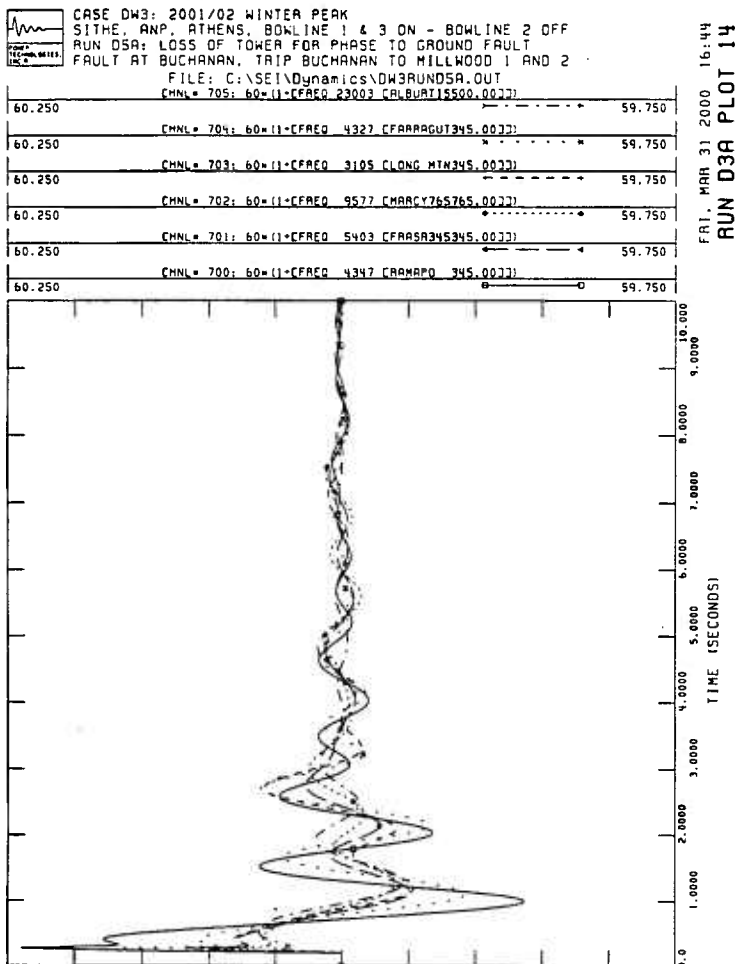
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
FILE: C:\SEI\Dynamic\DW3RUNDSA.OUT
CHNL= 18: CANGL 9528 CCLBDA=217.0003 C2 33



FRI, MAR 31 2000 16:43
RUN DSA PLOT 3





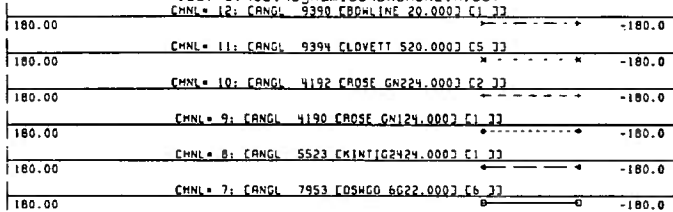


CONTINGENCY E1A

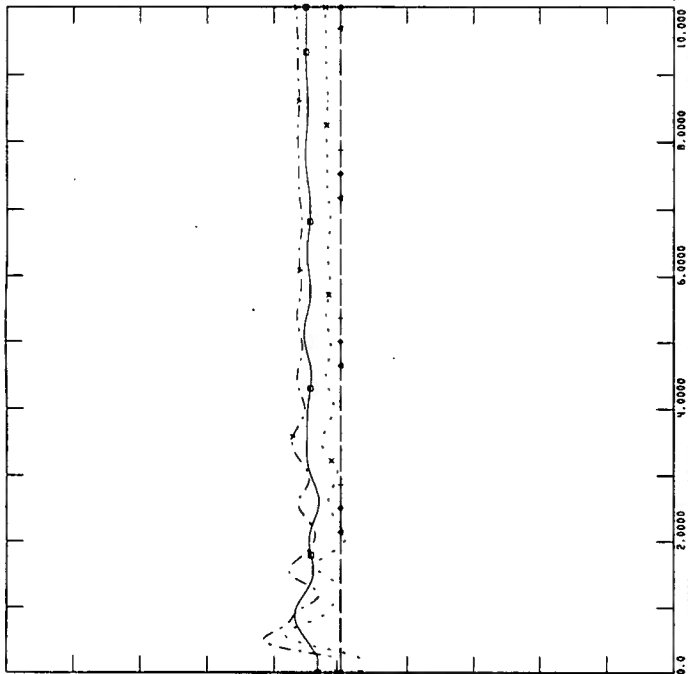
RECOVER FROM D1.SNP AND DW3.CNV
START OUTPUT DW3RUNE1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



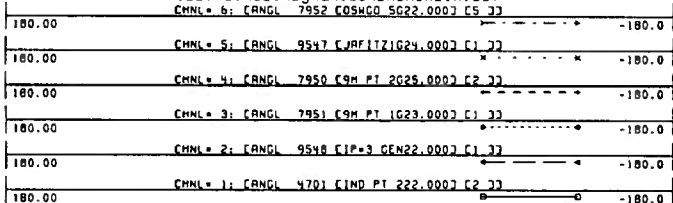
CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL = 12: CANGL 9390 CROHLINE 20.000 C1 JJ



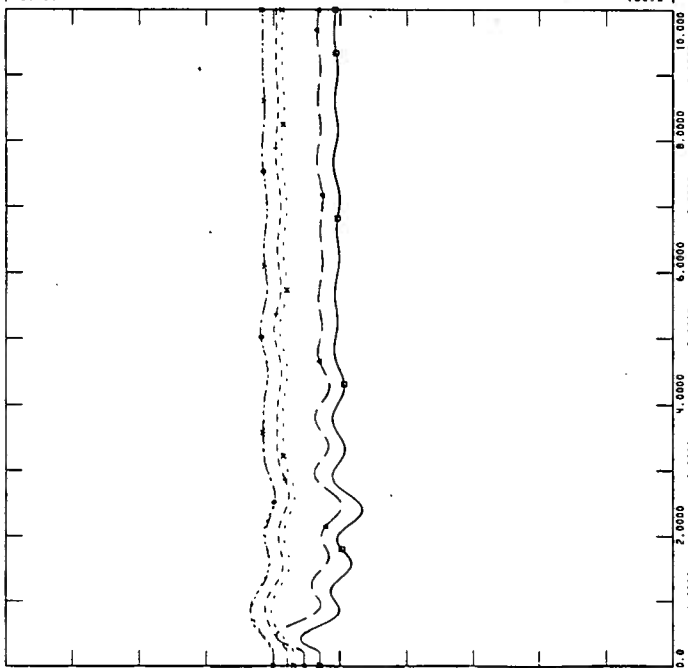
FRI, MAR 31 2000 16:46
RUN E1A PLOT 2



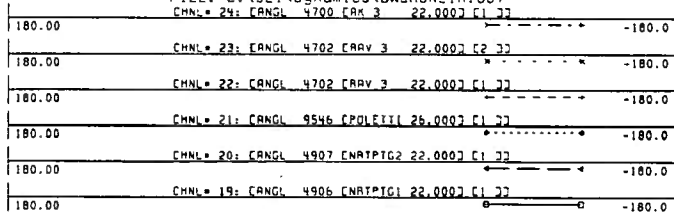
CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL = 6: CANGL 7952 CDSHGO 5022.000 C5 JJ



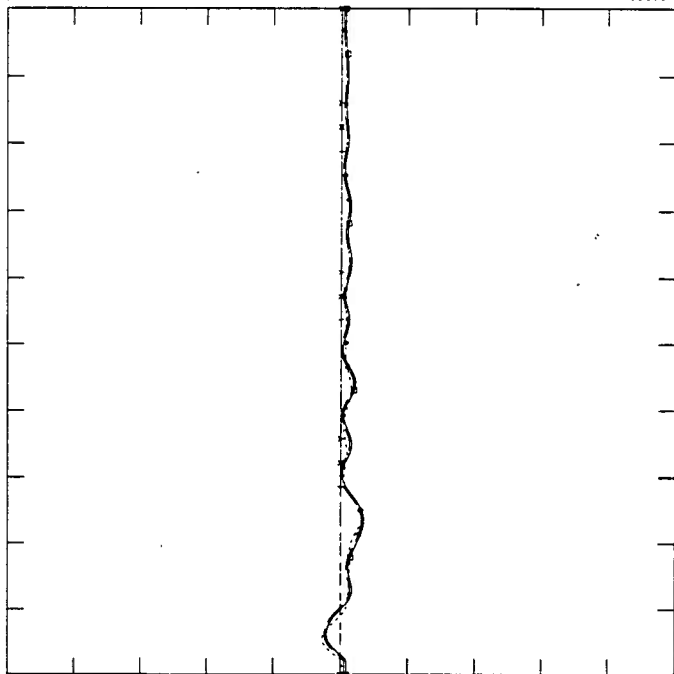
FRI, MAR 31 2000 16:46
RUN E1A PLOT 1



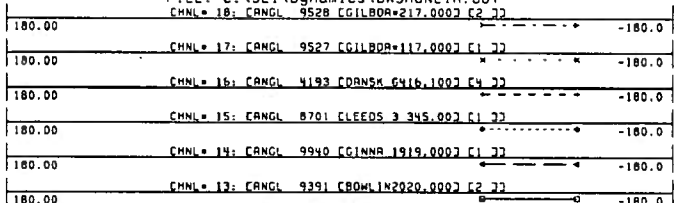
CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL = 24: CANGL 4700 CAV 3 22.000 C1 JJ



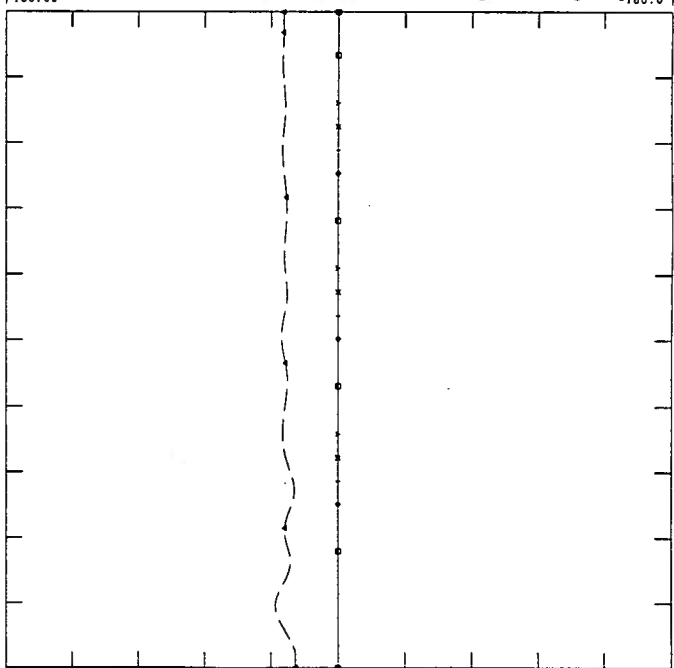
FRI, MAR 31 2000 16:46
RUN E1A PLOT 4



CASE DW3: 2001/02 WINTER PEAK
SITE: ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL = 18: CANGL 9528 CGILBOR=217.000 C2 JJ

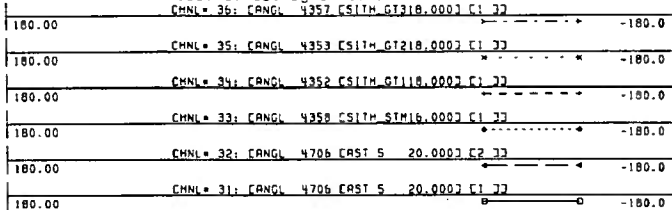


FRI, MAR 31 2000 16:46
RUN E1A PLOT 3





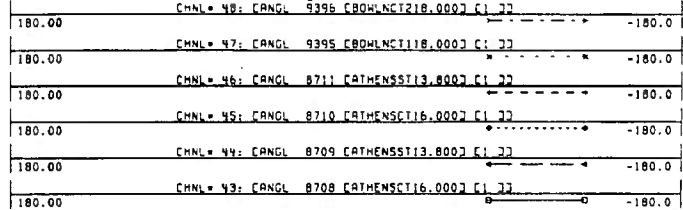
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL= 35: CANGL 4357 CSITH GT18.0003 C1 JJ



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RUN E1A PLOT 6



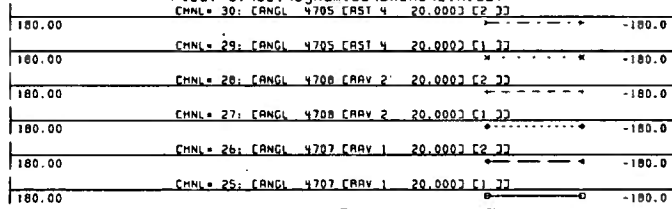
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL= 48: CANGL 9395 CBOWLNC118.0003 C1 JJ



FRI, MAR 31 2000 16:46
RUN E1A PLOT 7



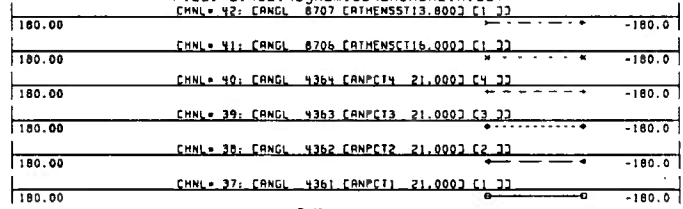
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL= 30: CANGL 4705 CAST 4 20.0003 C2 JJ



FRI, MAR 31 2000 16:46
RUN E1A PLOT 5



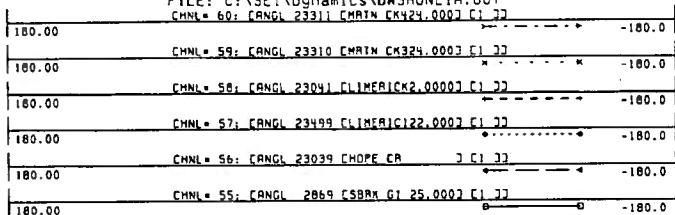
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL= 42: CANGL 8707 CATHENS5713.0003 C1 JJ



FRI, MAR 31 2000 16:46
RUN E1A PLOT 8



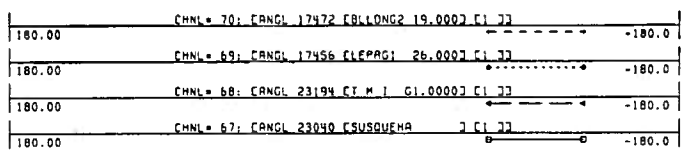
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL = 60: [CANG] 2331 [CHRN] 0.000 [C] 77



FRI, MAR 31 2000 16:46
RUN E1A PLOT 10



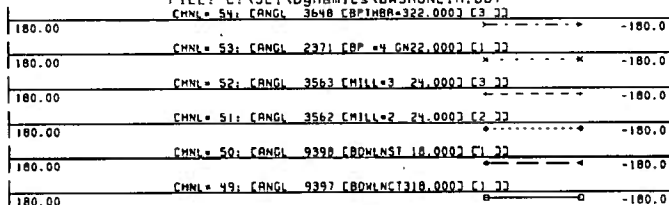
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL = 70: [CANG] 17472 [CBLONG] 19.000 [C] 77



FRI, MAR 31 2000 16:46
RUN E1A PLOT 12



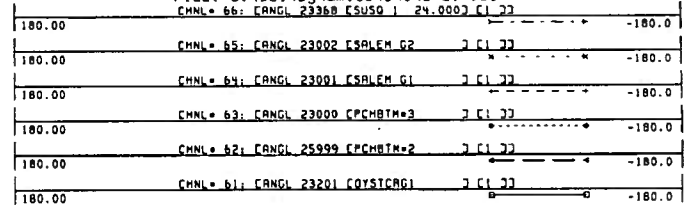
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL = 54: [CANG] 3648 [CPTHRA] 322.000 [C] 77



FRI, MAR 31 2000 16:46
RUN E1A PLOT 9



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
FILE: C:\SEI\Dynamic\DW3RUNE1A.OUT
CHNL = 66: [CANG] 23368 [CSUSQ] 24.000 [C] 77

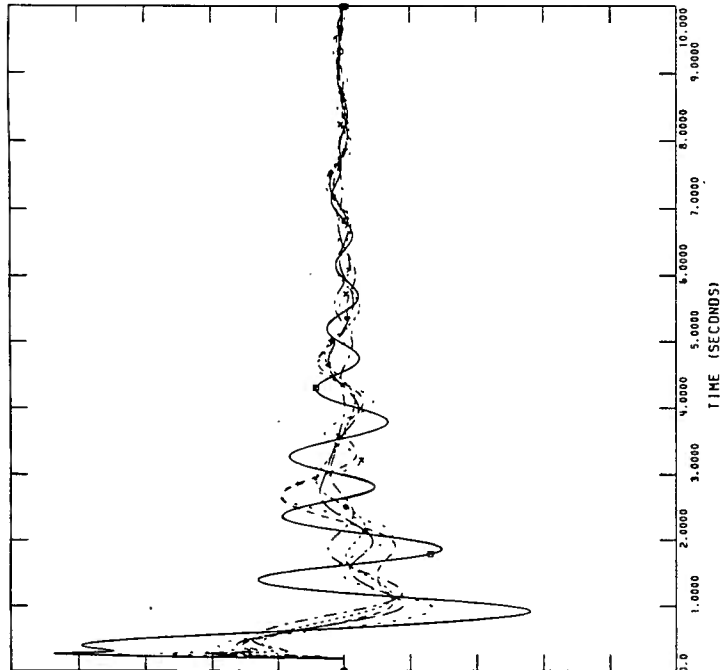


FRI, MAR 31 2000 16:46
RUN E1A PLOT 11



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW3AUNE1A.OUT
CHNL= 705: 60-11-CFREQ 23003 (CALBVRT15500.0077)

60.250 CHNL= 704: 60-11-CFREQ 4327 (CFARRAGUT345.0077) 59.750
60.250 CHNL= 703: 60-11-CFREQ 3105 (LONG MTN345.0077) 59.750
60.250 CHNL= 702: 60-11-CFREQ 9577 (MARCY765765.0077) 59.750
60.250 CHNL= 701: 60-11-CFREQ 5403 (FRASR345345.0077) 59.750
60.250 CHNL= 700: 60-11-CFREQ 4397 (ARMAPO 345.0077) 59.750

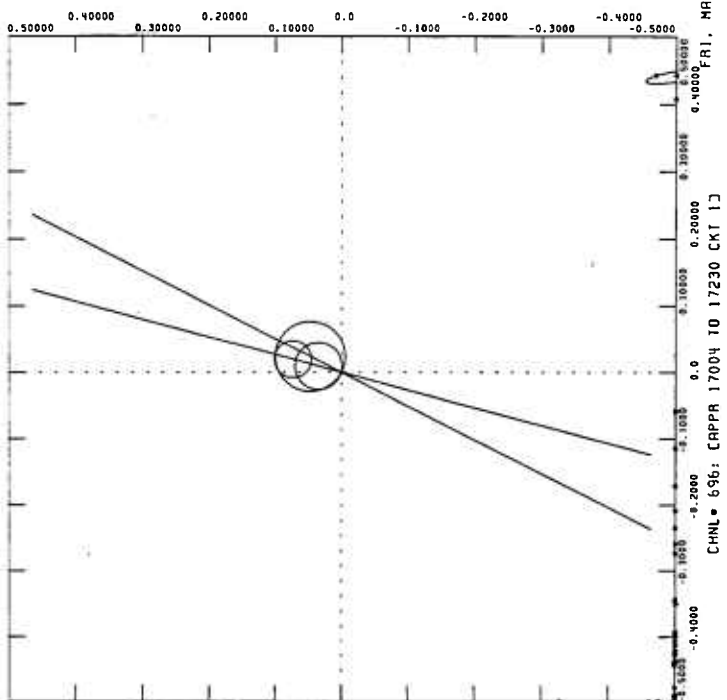


FRI, MAR 31 2000 16:46
RUN E1A PLOT 14



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW3AUNE1A.OUT

RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL= 697: CAPX 17004 TO 17230 CKT 13

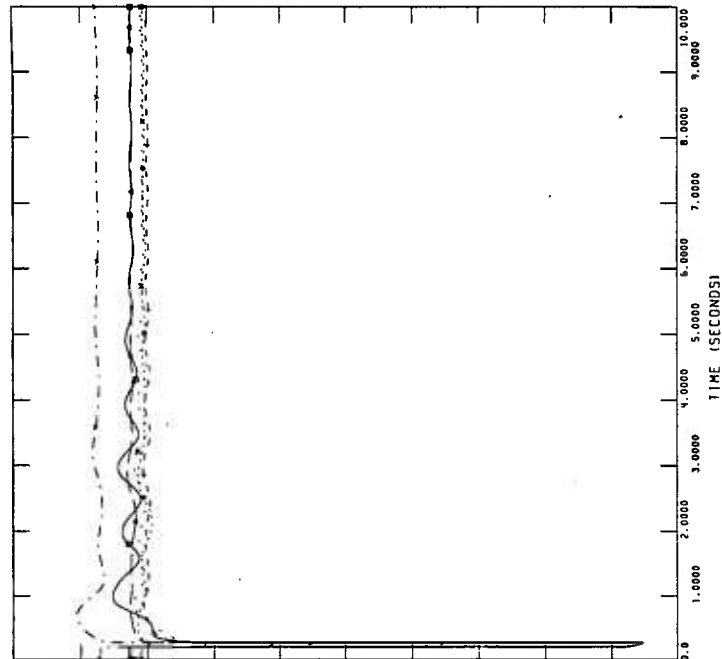


FRI, MAR 31 2000 16:46
RUN E1A PLOT 16



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW3AUNE1A.OUT
CHNL= 651: CYOLT 23003 (CALBVRT15500.0077)

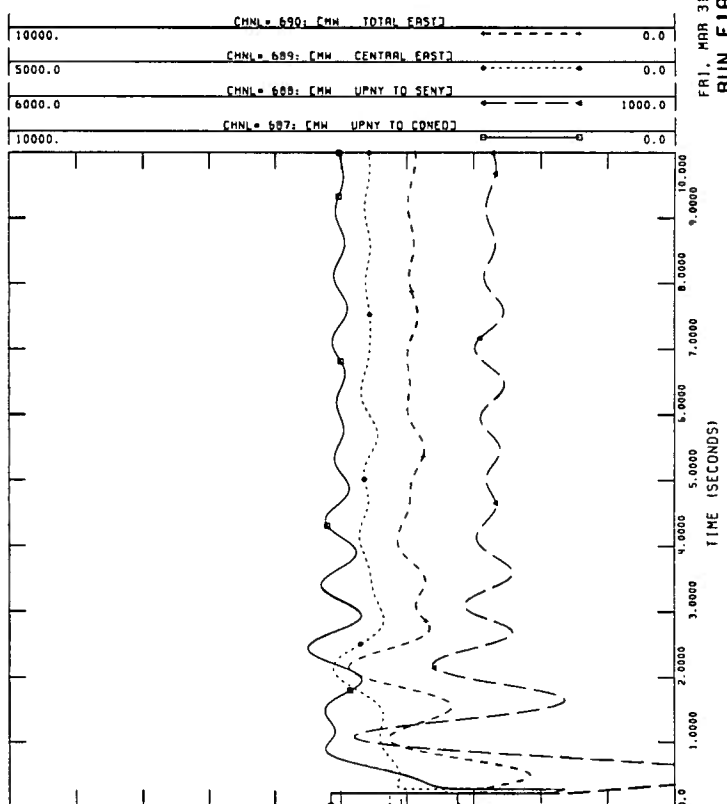
1.2000 CHNL= 508: [CYOLT 4327 (CFARRAGUT345.0077) 0.20000
1.2000 CHNL= 636: [CYOLT 3105 (LONG MTN345.0077) 0.20000
1.2000 CHNL= 572: [CYOLT 9577 (MARCY765765.0077) 0.20000
1.2000 CHNL= 545: [CYOLT 5403 (FRASR345345.0077) 0.20000
1.2000 CHNL= 528: [CYOLT 4397 (ARMAPO 345.0077) 0.20000



FRI, MAR 31 2000 16:46
RUN E1A PLOT 13



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW3AUNE1A.OUT



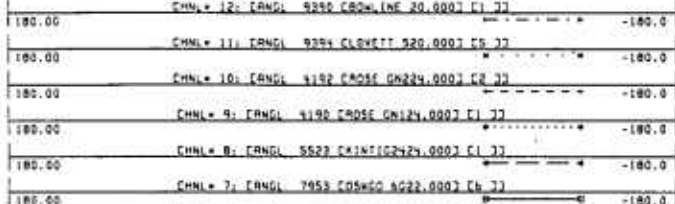
FRI, MAR 31 2000 16:46
RUN E1A PLOT 15

CONTINGENCY E2A

RECOVER FROM D1.SNP AND DW3.CNV
START OUTPUT DW3RUNE2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DISCONNECT BUS 4347 / DISCONNECT RAMAPO SUBSTATION
DROP GENERATOR 1 AT BUS 4352 / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4353 / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4357 / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4358 / TRIP SITHE ST
DROP GENERATOR 1 AT BUS 4361 / TRIP ANP CT
DROP GENERATOR 2 AT BUS 4362 / TRIP ANP CT
DROP GENERATOR 3 AT BUS 4363 / TRIP ANP CT
DROP GENERATOR 4 AT BUS 4364 / TRIP ANP ST
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

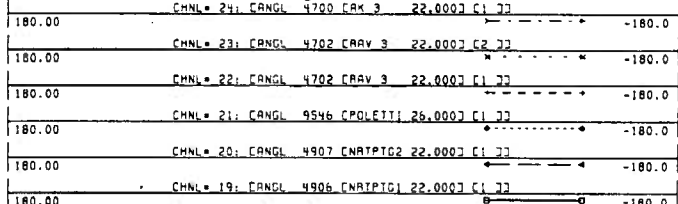
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT
 CHNL = 12: CANGL 9294 CLOVET 320.000 C1 JJ



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 RUN E2A PLOT 2

CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

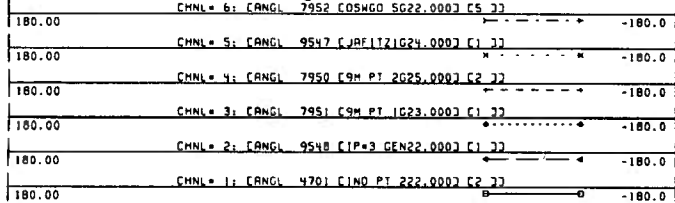
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT
 CHNL = 24: CANGL 4702 CAV 3 22.000 C1 JJ



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 RUN E2A PLOT 4

CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

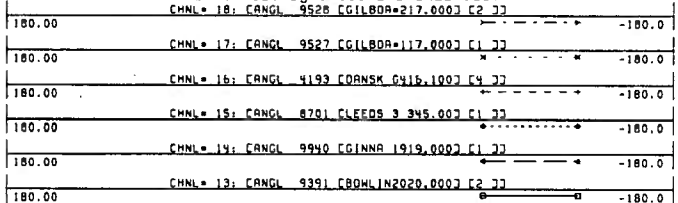
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT
 CHNL = 6: CANGL 7952 COWSG 5622.000 C5 JJ



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 RUN E2A PLOT 1

CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

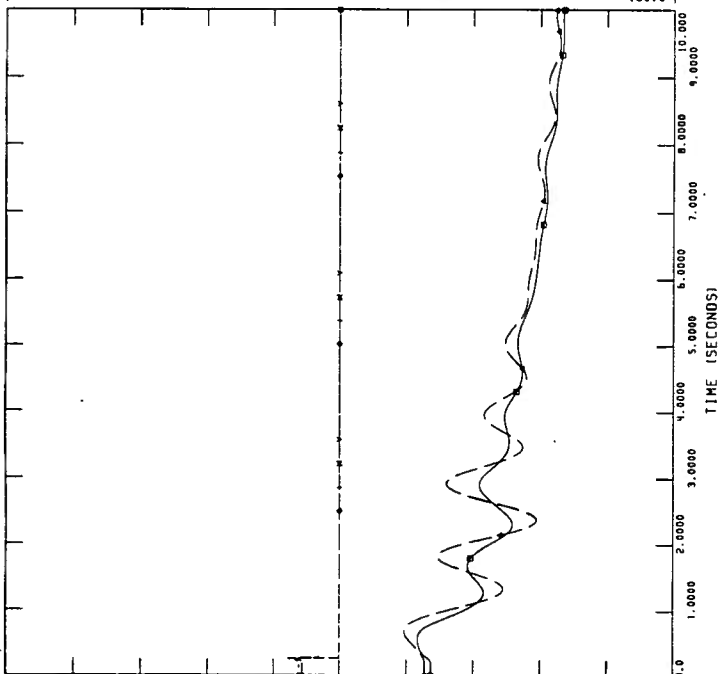
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT
 CHNL = 18: CANGL 9528 CGILB0A 217.000 C2 JJ



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 RUN E2A PLOT 3

CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW3AUNE2A.OUT
 CHNL= 35: CANGL 4353 CSITH GT218.0007 C1 JJ

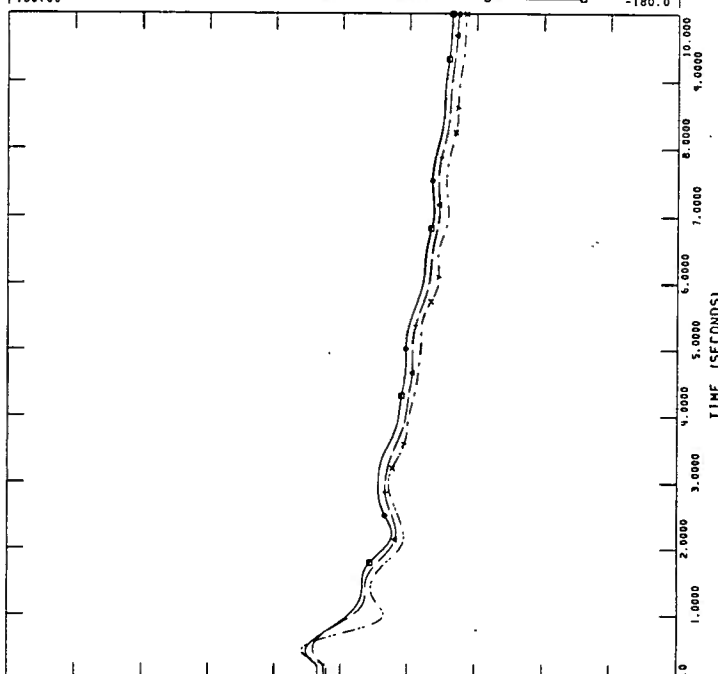
CHNL= 35: CANGL 4353 CSITH GT218.0007 C1 JJ
 CHNL= 34: CANGL 4352 CSITH GT118.0007 C1 JJ
 CHNL= 33: CANGL 4358 CSITH STM16.0007 C1 JJ
 CHNL= 32: CANGL 4706 EAST 5 20.0007 C2 JJ
 CHNL= 31: CANGL 4706 EAST 5 20.0007 C1 JJ



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 RUN E2A PLOT 6

CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW3AUNE2A.OUT
 CHNL= 48: CANGL 9396 CBOWLNCT18.0007 C1 JJ

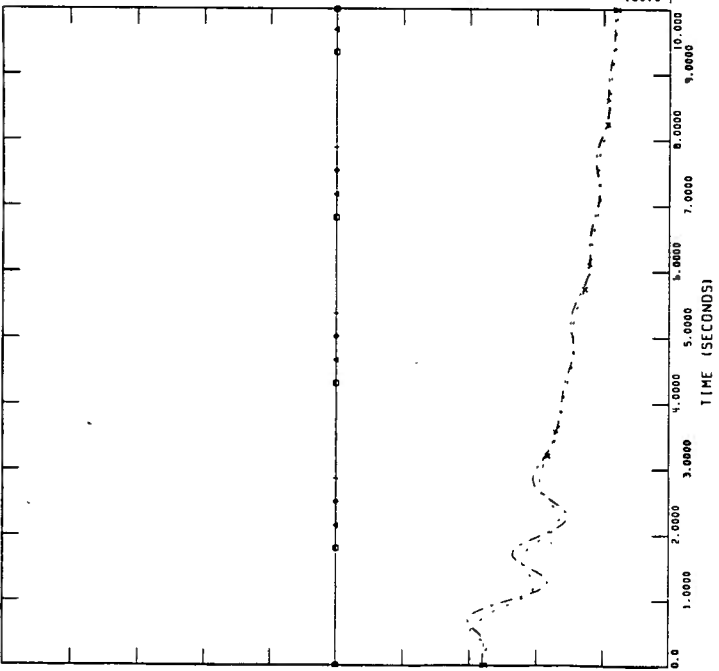
CHNL= 47: CANGL 9395 CBOWLNCT18.0007 C1 JJ
 CHNL= 46: CANGL 8711 CATHENSST13.8007 C1 JJ
 CHNL= 45: CANGL 8710 CATHENSST16.0007 C1 JJ
 CHNL= 44: CANGL 8709 CATHENSST13.8007 C1 JJ
 CHNL= 43: CANGL 8708 CATHENSST16.0007 C1 JJ



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 RUN E2A PLOT 8

CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW3AUNE2A.OUT
 CHNL= 30: CANGL 4705 EAST 4 20.0007 C2 JJ

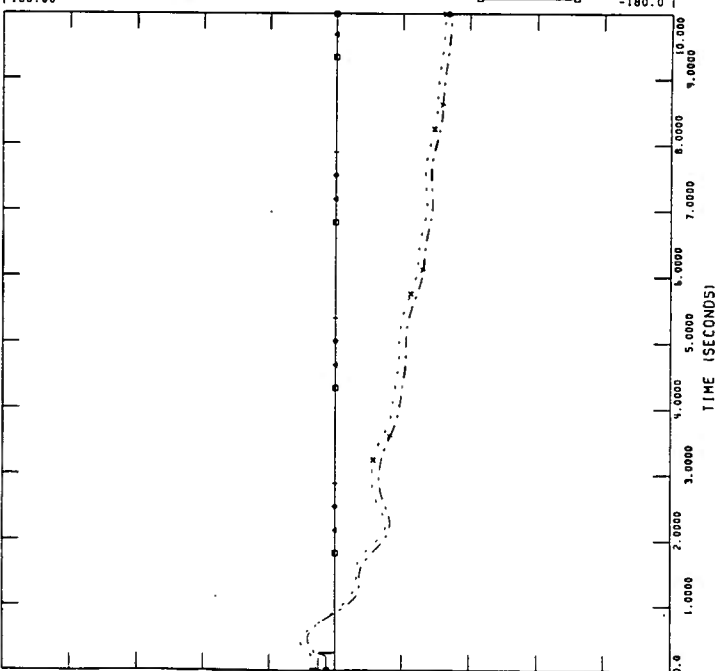
CHNL= 29: CANGL 4705 EAST 4 20.0007 C1 JJ
 CHNL= 28: CANGL 4708 CARV 2 20.0007 C2 JJ
 CHNL= 27: CANGL 4708 CARV 2 20.0007 C1 JJ
 CHNL= 26: CANGL 4707 CARV 1 20.0007 C2 JJ
 CHNL= 25: CANGL 4707 CARV 1 20.0007 C1 JJ



FRI, MAR 31 2000 16:46
 RUN E2A PLOT 5

CASE DW3: 2001/02 WINTER PEAK
 SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW3AUNE2A.OUT
 CHNL= 42: CANGL 8707 CATHENSST13.8007 C1 JJ

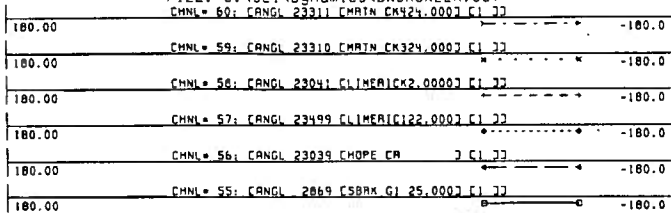
CHNL= 41: CANGL 8706 CATHENSST16.0007 C1 JJ
 CHNL= 40: CANGL 4364 CANPCT4 21.0007 C4 JJ
 CHNL= 39: CANGL 4363 CANPCT3 21.0007 C3 JJ
 CHNL= 38: CANGL 4362 CANPCT2 21.0007 C2 JJ
 CHNL= 37: CANGL 4361 CANPCT1 21.0007 C1 JJ



FRI, MAR 31 2000 16:46
 RUN E2A PLOT 7

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

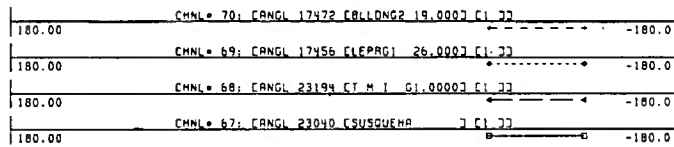
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT
CHNL = 60: CANGL 23311 CHAIN CK424.0007 C1 JJ



FRI, MAR 31 2000 16:46
RUN E2A PLOT 10

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

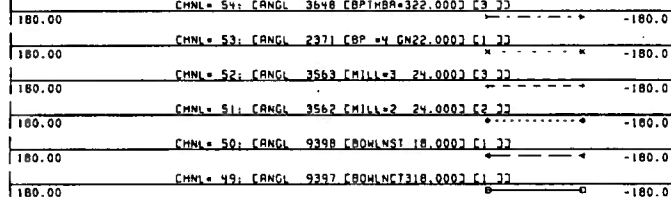
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT



FRI, MAR 31 2000 16:46
RUN E2A PLOT 12

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

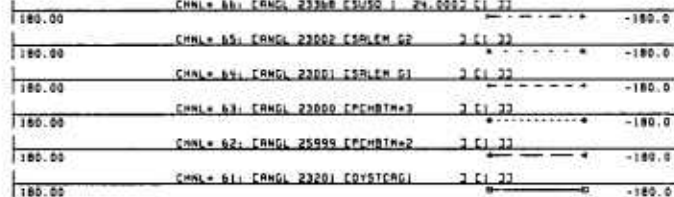
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT
CHNL = 54: CANGL 3646 CBTHBA322.0007 C3 JJ



FRI, MAR 31 2000 16:46
RUN E2A PLOT 9

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

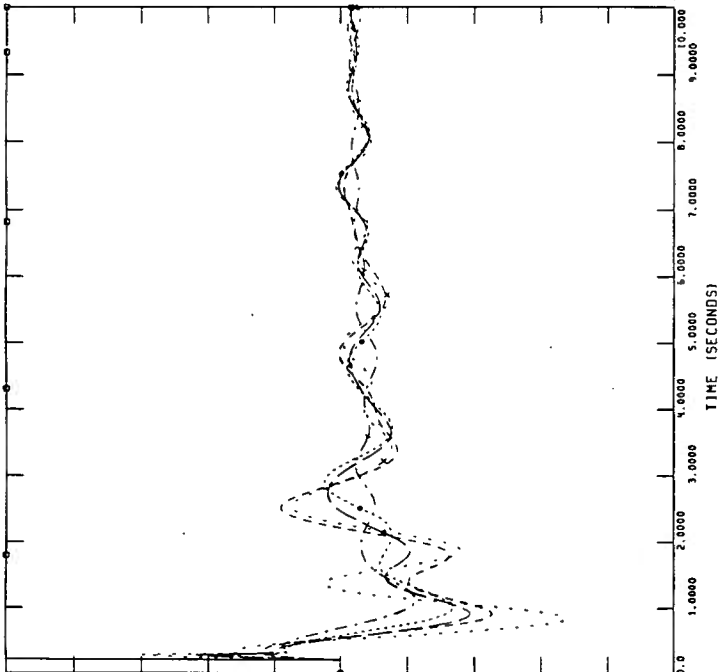
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT
CHNL = 61: CANGL 23261 CRYSTCAG1 24.0007 C1 JJ



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RUN E2A PLOT 11

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT
CHNL = 705: 60*(1)-(CFREQ 23003 CALBART15500.0077)

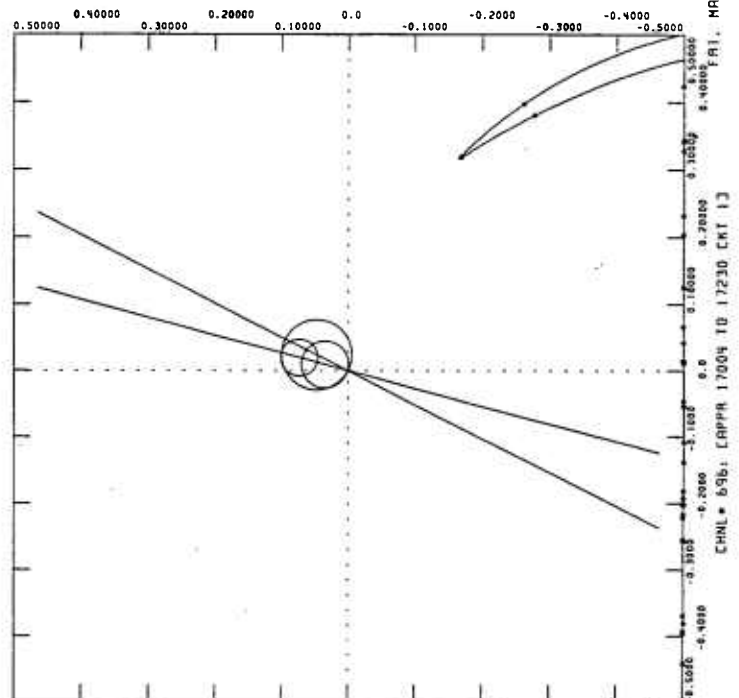
60.250 CHNL = 704: 60*(1)-(CFREQ 4327 CFARAGUT345.0077) 59.750
60.250 CHNL = 703: 60*(1)-(CFREQ 3105 CLONG MTN345.0077) 59.750
60.250 CHNL = 702: 60*(1)-(CFREQ 9577 CHARC765765.0077) 59.750
60.250 CHNL = 701: 60*(1)-(CFREQ 5403 CFARAGUT345.0077) 59.750
60.250 CHNL = 700: 60*(1)-(CFREQ 4347 CFARAGUT345.0077) 59.750



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RUN E2A PLOT 14

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT

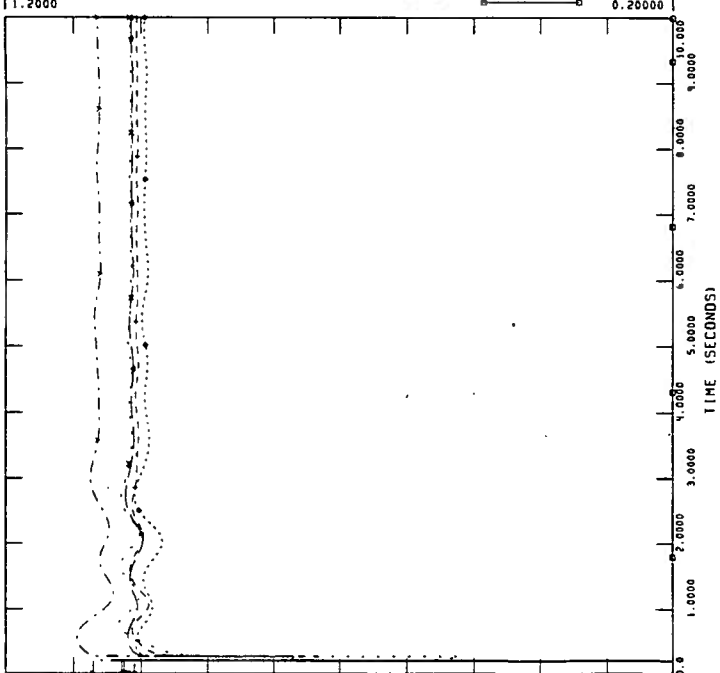
RELAY: DISTR
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPX 17004 TO 17230 CKT 13



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RUN E2A PLOT 15

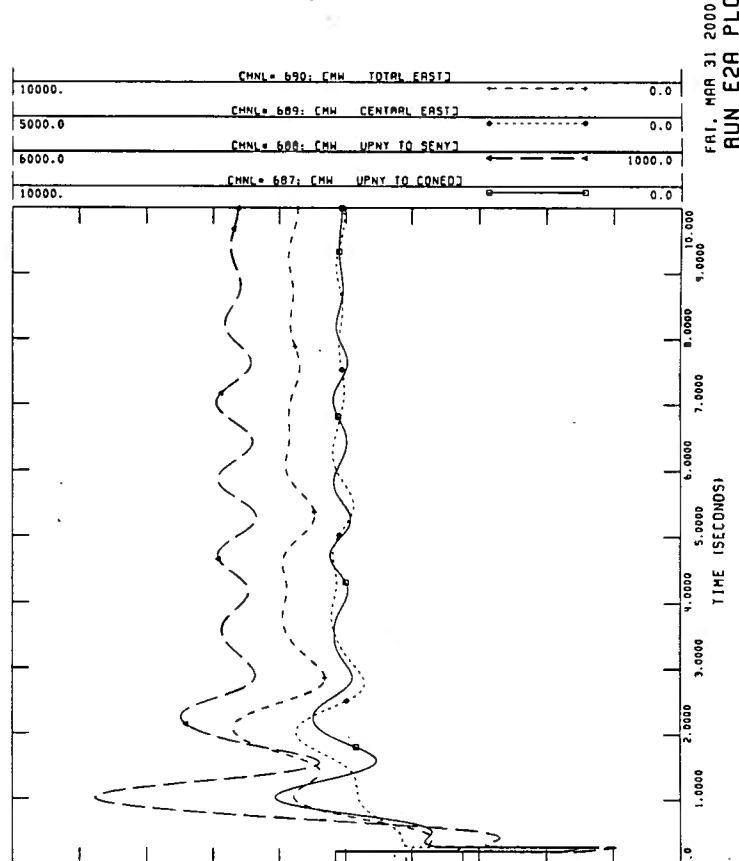
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT
CHNL = 651: CYOLT 23003 CALBART15500.0077

1.2000 CHNL = 508: CYOLT 4327 CFARAGUT345.0077 0.20000
1.2000 CHNL = 636: CYOLT 3105 CLONG MTN345.0077 0.20000
1.2000 CHNL = 572: CYOLT 9577 CHARC765765.0077 0.20000
1.2000 CHNL = 545: CYOLT 5403 CFARAGUT345.0077 0.20000
1.2000 CHNL = 528: CYOLT 4347 CFARAGUT345.0077 0.20000



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RUN E2A PLOT 13

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
FILE: C:\SEI\Dynamic\DW3RUNE2A.OUT



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RUN E2A PLOT 16

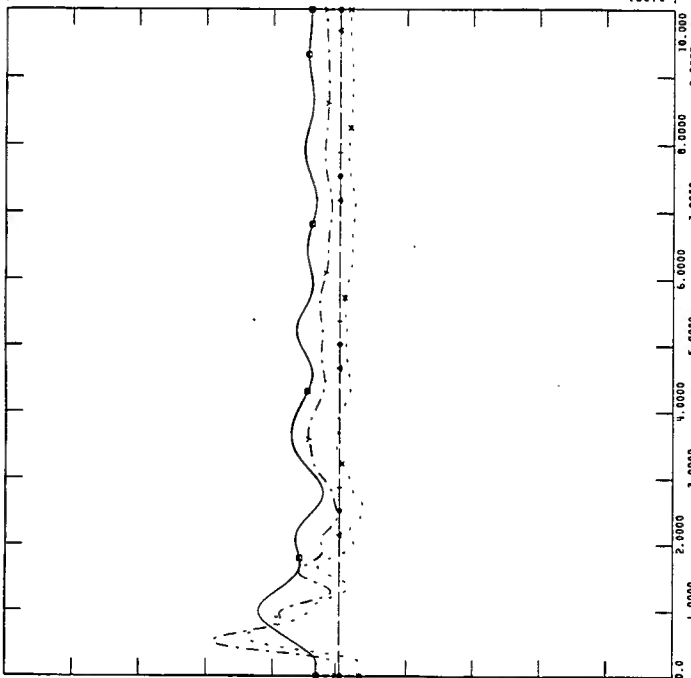
CONTINGENCY E3A

RECOVER FROM D1.SNP AND DW3.CNV
START OUTPUT DW3RUNE3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
RUN FOR 5.50 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4360 CKT 1 / TRIP RAMAPO-ANP CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW3RUNE3A.OUT
CHNL = 12: CANGL 9390 CROWLIN 20.0007 C1 JJ

CHNL = 11: CANGL 9394 CLOVET 520.0007 C5 JJ
CHNL = 10: CANGL 4192 CROSE GN224.0007 C2 JJ
CHNL = 9: CANGL 4190 CROSE GN124.0007 C1 JJ
CHNL = 8: CANGL 5523 CKINTIG2424.0007 C1 JJ
CHNL = 7: CANGL 7953 COSHGO 6022.0007 C6 JJ

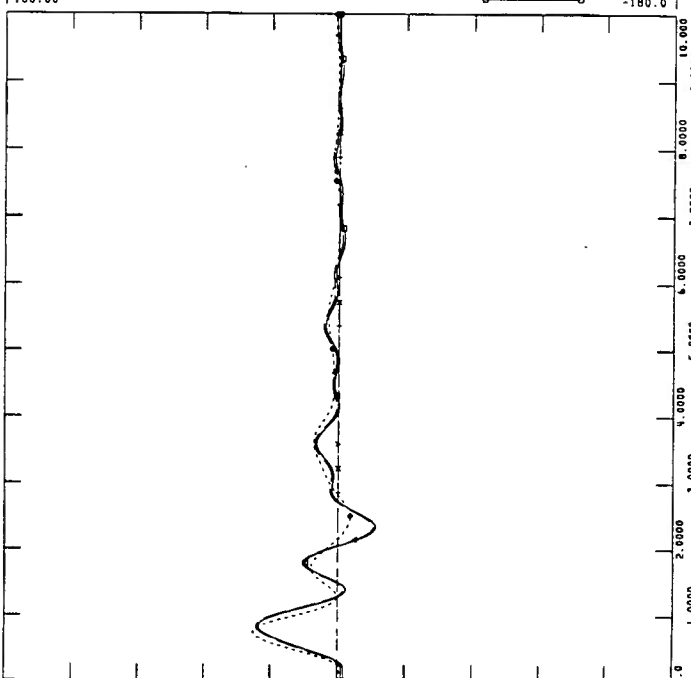


FRI, MAR 31 2000 16:46
RUN E3A PLOT 2

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW3RUNE3A.OUT
CHNL = 24: CANGL 4700 CARV 3 22.0007 C1 JJ

CHNL = 23: CANGL 4702 CARV 3 22.0007 C2 JJ
CHNL = 22: CANGL 4702 CARV 3 22.0007 C1 JJ
CHNL = 21: CANGL 9546 CPOLETT 26.0007 C1 JJ
CHNL = 20: CANGL 4907 CNATPTG2 22.0007 C1 JJ
CHNL = 19: CANGL 4906 CNATPTG1 22.0007 C1 JJ

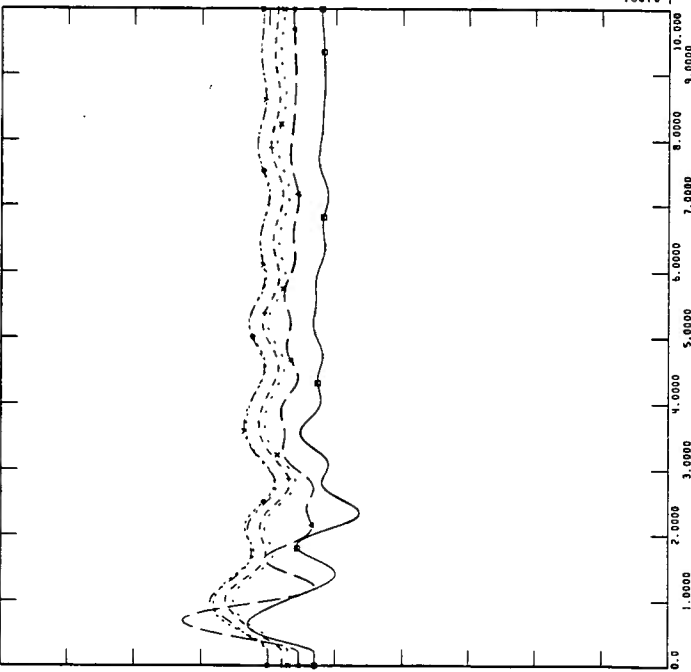


FRI, MAR 31 2000 16:46
RUN E3A PLOT 4

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW3RUNE3A.OUT
CHNL = 6: CANGL 7952 COSHGO 5022.0007 C5 JJ

CHNL = 5: CANGL 9547 CJAFITZ1024.0007 C1 JJ
CHNL = 4: CANGL 7950 CPM PT 2025.0007 C2 JJ
CHNL = 3: CANGL 7951 CPM PT 1023.0007 C1 JJ
CHNL = 2: CANGL 9548 CIP 3 GEN22.0007 C1 JJ
CHNL = 1: CANGL 4701 CIND PT 222.0007 C2 JJ

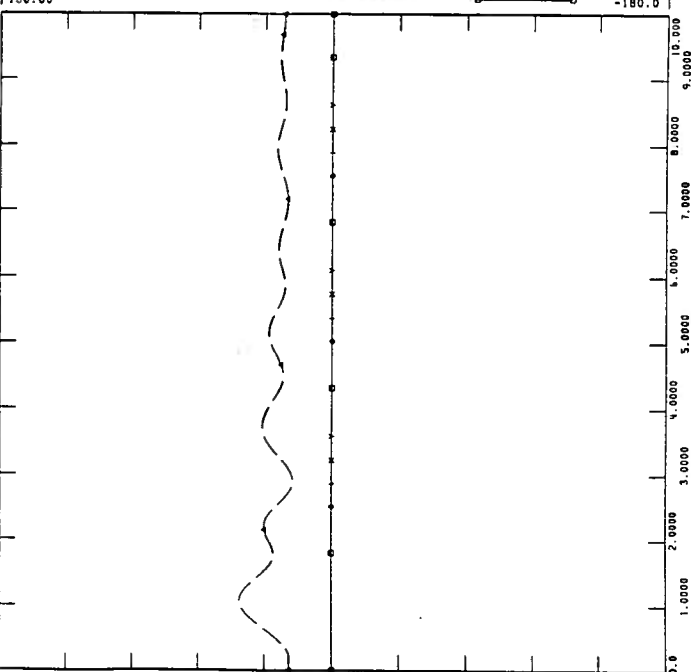


FRI, MAR 31 2000 16:46
RUN E3A PLOT 1

CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW3RUNE3A.OUT
CHNL = 18: CANGL 9528 CGLLBAR 217.0007 C2 JJ

CHNL = 17: CANGL 9527 CGLLBAR 117.0007 C1 JJ
CHNL = 16: CANGL 4193 COANSM 6416.1007 C4 JJ
CHNL = 15: CANGL 8701 CLEOS 3 345.0007 C1 JJ
CHNL = 14: CANGL 9990 CGINNA 1919.0007 C1 JJ
CHNL = 13: CANGL 9391 CROWLIN 2020.0007 C2 JJ

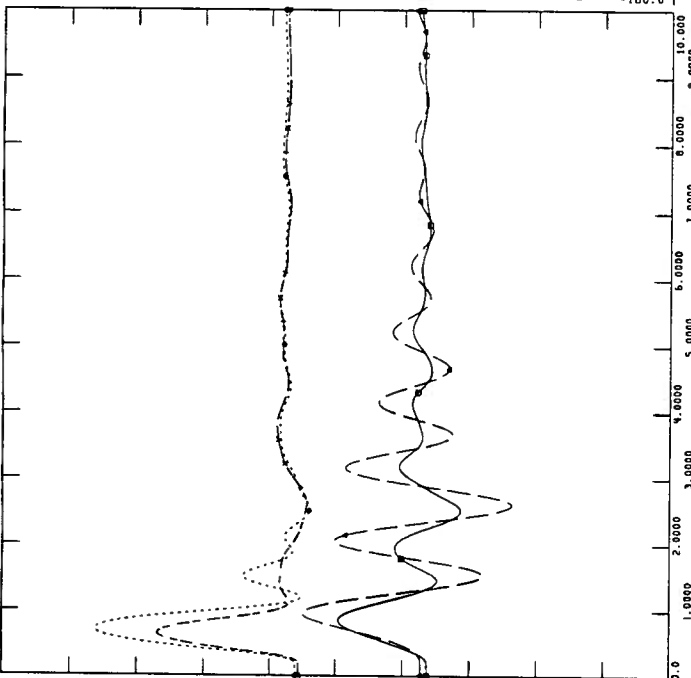
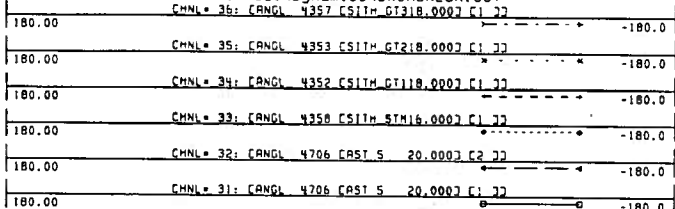


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RUN E3A PLOT 3



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW3AUNE3A.OUT
CHNL= 35: CANGI 4353 CSITH GT218.0007 CI 77

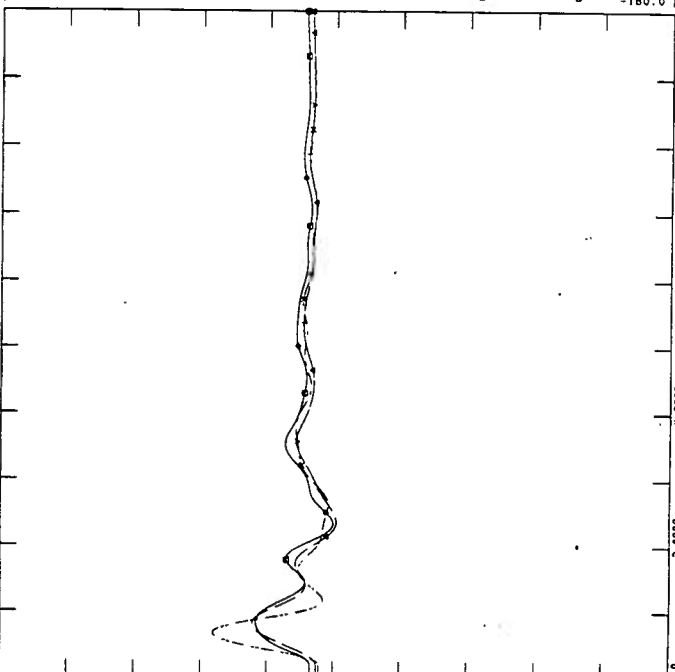
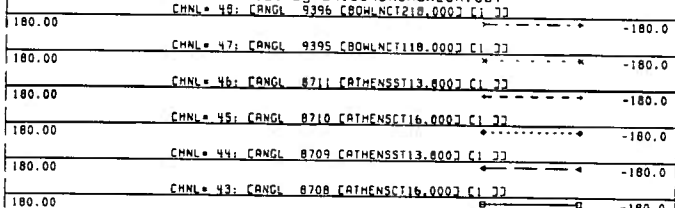


FRI, MAR 31 2000 16:46
RUN E3A PLOT 5



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW3AUNE3A.OUT
CHNL= 47: CANGI 9395 CBOWLNCT118.0007 CI 77

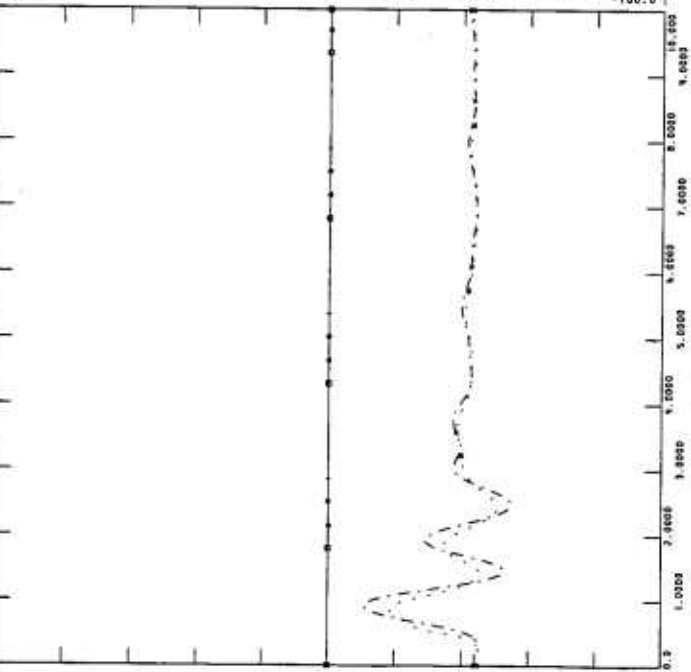
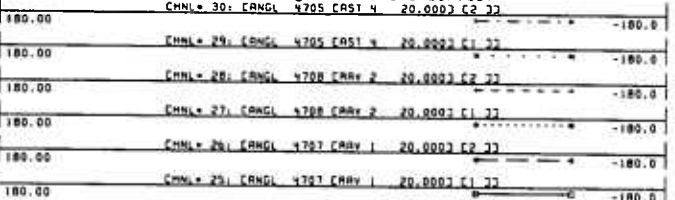


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RUN E3A PLOT 8



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW3AUNE3A.OUT
CHNL= 29: CANGI 4705 EAST 1 20.0007 CI 77

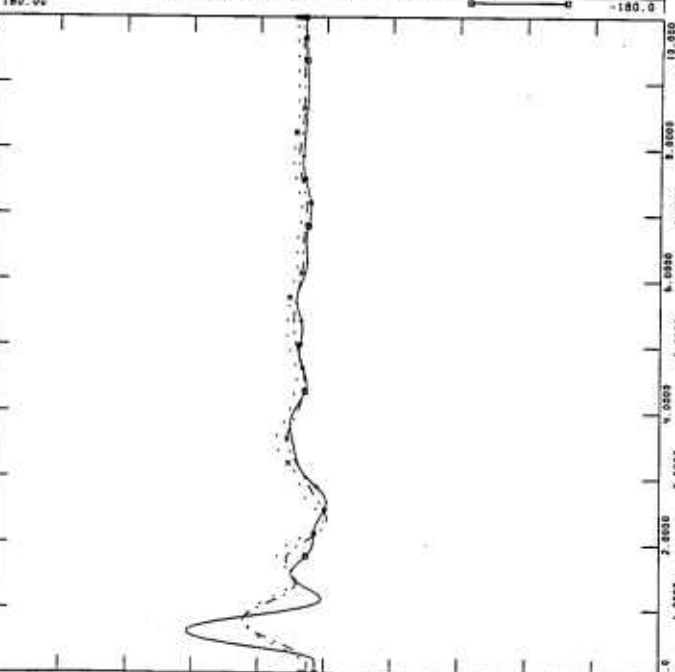
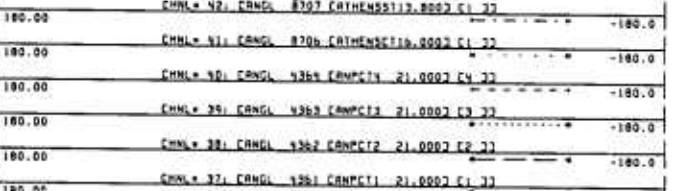


FRI, MAR 31 2000 16:46
RUN E3A PLOT 5



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

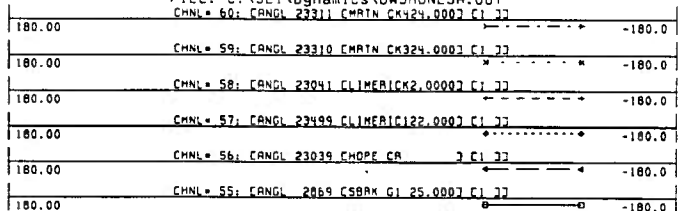
FILE: C:\SEI\Dynamic\DW3AUNE3A.OUT
CHNL= 42: CANGI 8707 CATHENST13.0007 CI 77



FRI, MAR 31 2000 16:46
RUN E3A PLOT 7



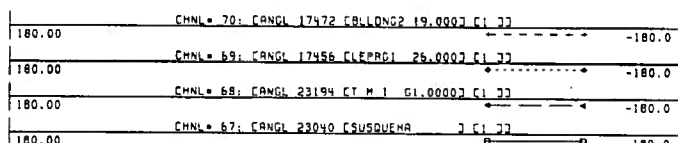
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2
FILE: C:\SEI\odynamics\DW3RUNE3A.OUT
CHNL= 60: CANG1 23311 CMATN CK324.0007 C1 JJ



FRI, MAR 31 2000 16:46
RUN E3A PLOT 10



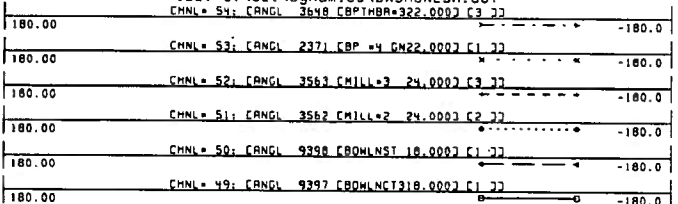
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2
FILE: C:\SEI\odynamics\DW3RUNE3A.OUT
CHNL= 70: CANG1 17472 C8LLONG2 19.0007 C1 JJ



FRI, MAR 31 2000 16:46
RUN E3A PLOT 12



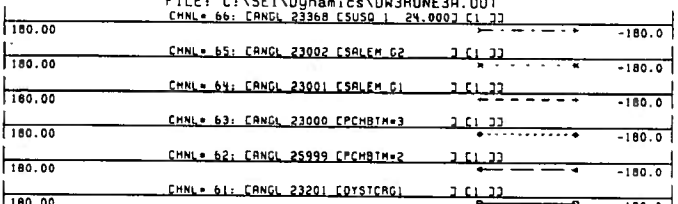
CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2
FILE: C:\SEI\odynamics\DW3RUNE3A.OUT
CHNL= 54: CANG1 3648 C8P1B8M322.0007 C3 JJ



FRI, MAR 31 2000 16:46
RUN E3A PLOT 9



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2
FILE: C:\SEI\odynamics\DW3RUNE3A.OUT
CHNL= 66: CANG1 23368 CSUSQ 1 24.0007 C1 JJ



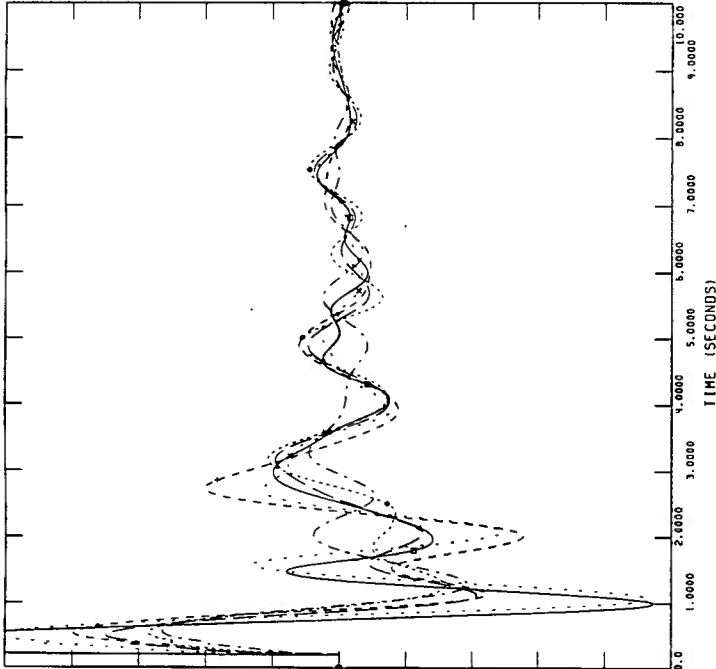
FRI, MAR 31 2000 16:46
RUN E3A PLOT 11



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW3AUNE3A.OUT
CHNL = 705: 60 (1)-CFREQ 23003 CALBVRT(5500.0077)

60.250 CHNL = 704: 60 (1)-CFREQ 4327 CFARAGUT345.0077 59.750
60.250 CHNL = 703: 60 (1)-CFREQ 3105 CLONG MTN345.0077 59.750
60.250 CHNL = 702: 60 (1)-CFREQ 9577 CMARCY765765.0077 59.750
60.250 CHNL = 701: 60 (1)-CFREQ 5403 CFARAS345345.0077 59.750
60.250 CHNL = 700: 60 (1)-CFREQ 4347 CFARAPD 345.0077 59.750



FRI, MAR 31 2000 16:46
RUN E3A PLOT 14

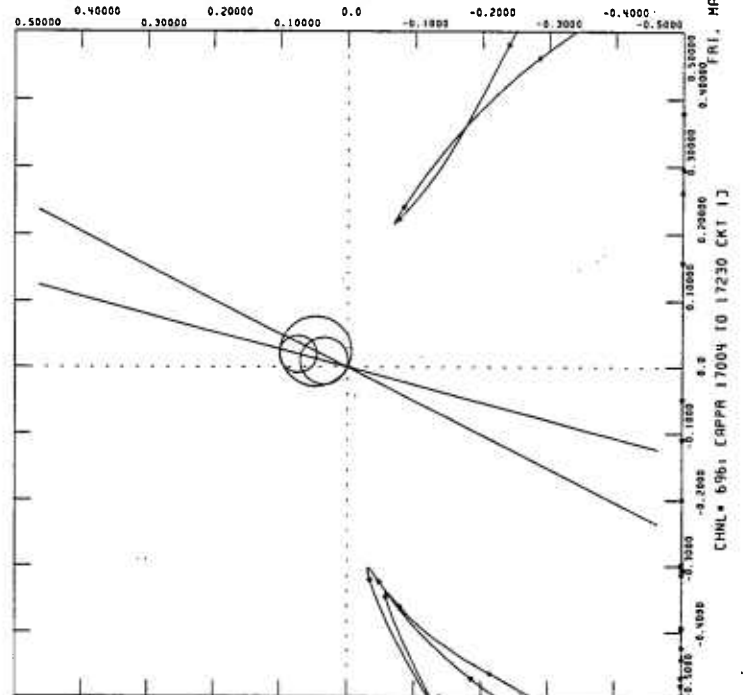


CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW3AUNE3A.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13



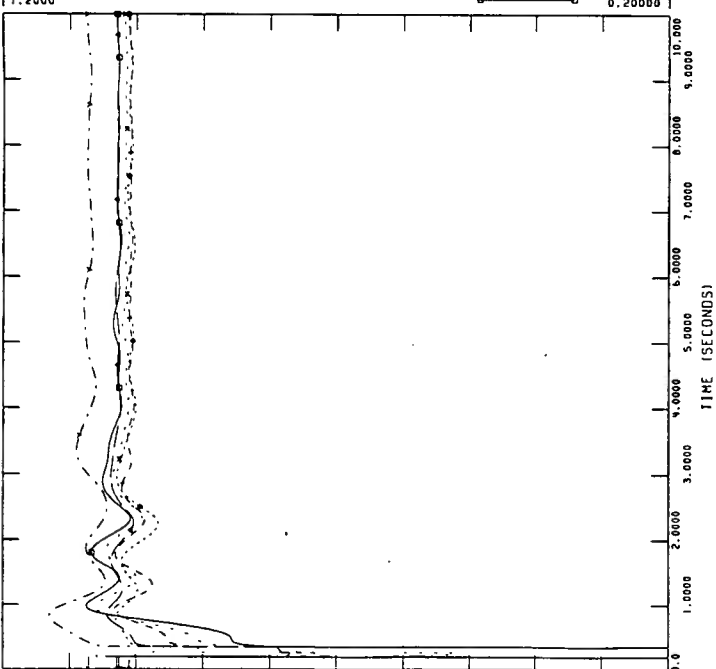
FRI, MAR 31 2000 16:46
RUN E3A PLOT 16



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW3AUNE3A.OUT
CHNL = 651: CVOLT 23003 CALBVRT(5500.0077)

1.2000 CHNL = 508: CVOLT 4327 CFARAGUT345.0077 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MTN345.0077 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCY765765.0077 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARAS345345.0077 0.20000
1.2000 CHNL = 528: CVOLT 4347 CFARAPD 345.0077 0.20000



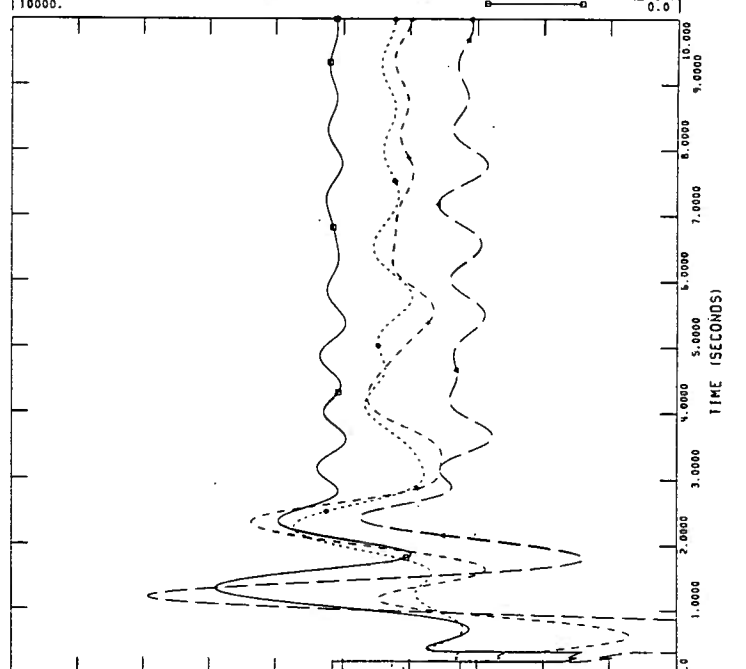
FRI, MAR 31 2000 16:46
RUN E3A PLOT 13



CASE DW3: 2001/02 WINTER PEAK
SITHE, ANP, ATHENS, BOWLINE 1 & 3 ON - BOWLINE 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW3AUNE3A.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENY 1000.0
CHNL = 687: CMW UPNY TO CONED 0.0



FRI, MAR 31 2000 16:46
RUN E3A PLOT 15

APPENDIX F.8 - Summer Peak Case DW4

Bowline 1, 2 and 3, Athens, ANP and Sithe On-Line

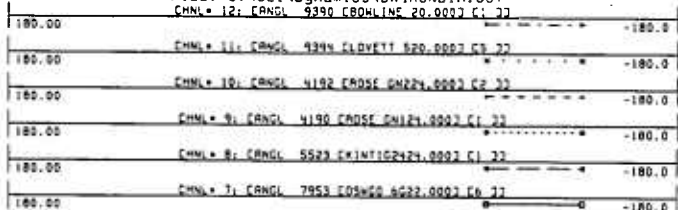
Bowline 3 Displacing Indian Point 2

CONTINGENCY D1A

RECOVER FROM D1.SNP AND DW4.CNV
START OUTPUT DW4RUND1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4310 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BOWLINE
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9398 / TRIP BOWLINE 3 ST
TRIP BRANCH FROM BUS 9398 TO BUS 4311 CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

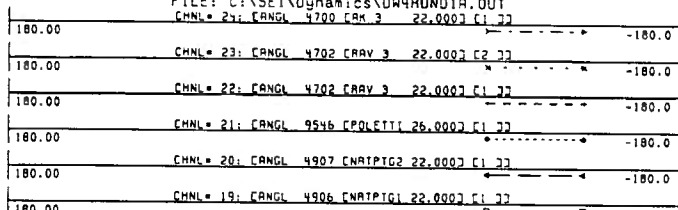
FILE: C:\SEI\Dynamic\DW4RUND1A.OUT
CHNL = 12: CANGL 9390 CBOHLINE 20.0007 C1 JJ



FRI, MAR 31 2000 17:17
RUN DIA PLOT 2

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

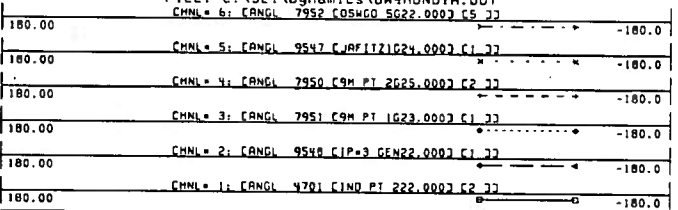
FILE: C:\SEI\Dynamic\DW4RUND1A.OUT
CHNL = 21: CANGL 4700 CAY 3 22.0007 C1 JJ



FRI, MAR 31 2000 17:17
RUN DIA PLOT 4

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

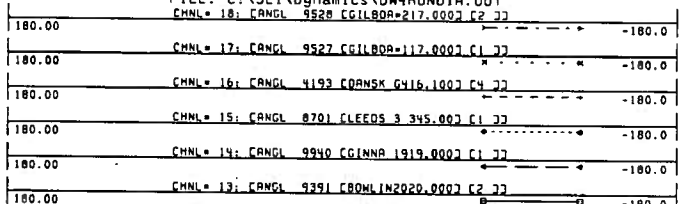
FILE: C:\SEI\Dynamic\DW4RUND1A.OUT
CHNL = 6: CANGL 7952 COSWEG 5022.0007 C5 JJ



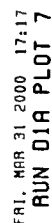
FRI, MAR 31 2000 17:17
RUN DIA PLOT 1

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamic\DW4RUND1A.OUT
CHNL = 18: CANGL 9528 CGILBDR 217.0007 C2 JJ



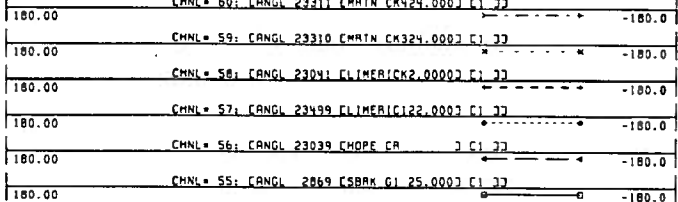
FRI, MAR 31 2000 17:17
RUN DIA PLOT 3





CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\dynamics\DW4RUND1A.OUT
CHNL= 69: CANGL 23311 CMATN CK324.0007 C1 JJ

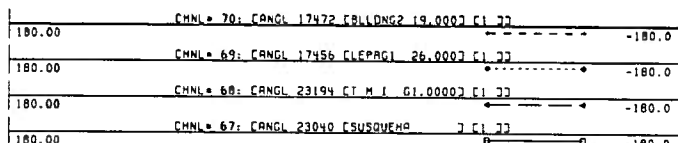


FRI, MAR 31 2000 17:17
RUN DIA PLOT 10



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\dynamics\DW4RUND1A.OUT
CHNL= 70: CANGL 17472 CBLLNG2 19.0007 C1 JJ

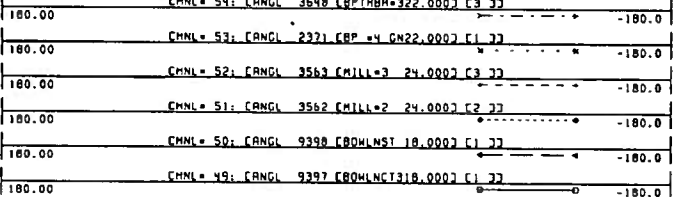


FRI, MAR 31 2000 17:17
RUN DIA PLOT 12



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\dynamics\DW4RUND1A.OUT
CHNL= 54: CANGL 3648 CPTMBA+322.0007 C3 JJ

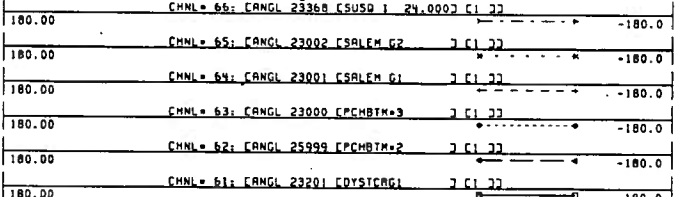


FRI, MAR 31 2000 17:17
RUN DIA PLOT 9



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\dynamics\DW4RUND1A.OUT
CHNL= 66: CANGL 23368 CSUS9 1 24.0007 C1 JJ

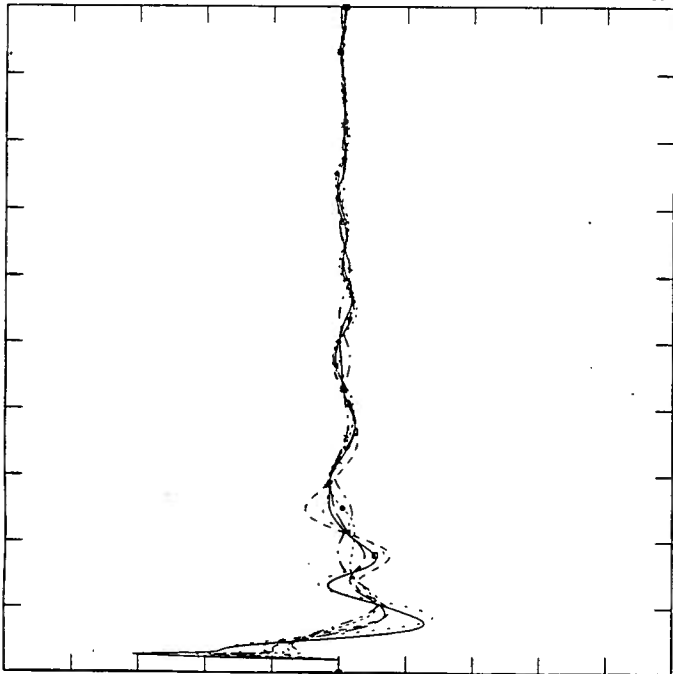


FRI, MAR 31 2000 17:17
RUN DIA PLOT 11

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamics\DW4RUND1A.OUT
CHNL = 705: 60 (1-CFREQ 23003 CALBWT15500.0077)

60.250 CHNL = 704: 60 (1-CFREQ 4327 CFARAGUT345.0077) 59.750
60.250 CHNL = 703: 60 (1-CFREQ 3105 CLONG MTN345.0077) 59.750
60.250 CHNL = 702: 60 (1-CFREQ 9577 CMARCY765765.0077) 59.750
60.250 CHNL = 701: 60 (1-CFREQ 5403 CFARSA345345.0077) 59.750
60.250 CHNL = 700: 60 (1-CFREQ 4347 CARAMPO 345.0077) 59.750



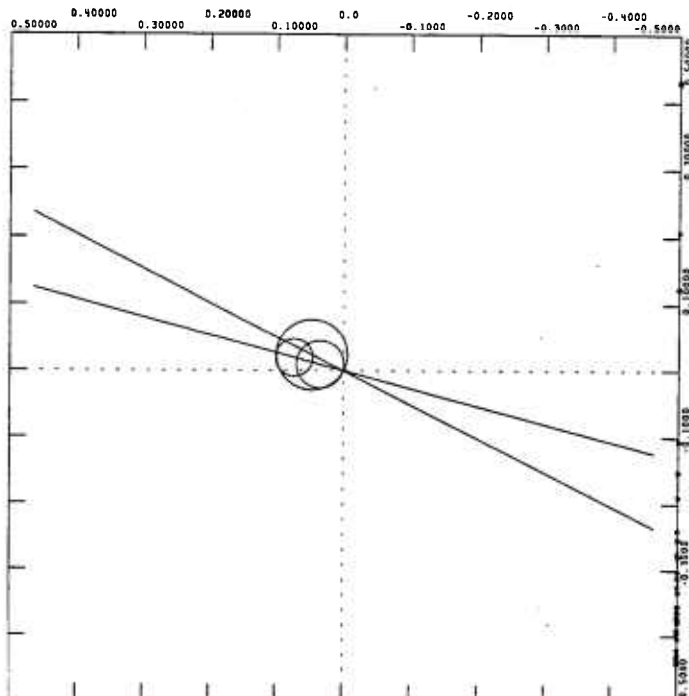
FRI, MAR 31 2000 17:17
RUN DIA PLOT 14

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamics\DW4RUND1A.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

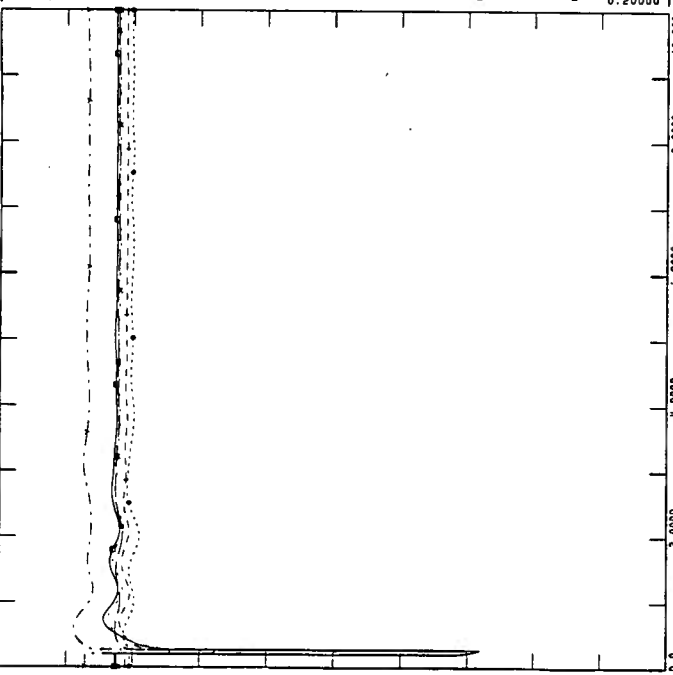


FRI, MAR 31 2000 17:17
RUN DIA PLOT 16

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamics\DW4RUND1A.OUT
CHNL = 651: CVOLT 23003 CALBWT15500.0077

1.2000 CHNL = 508: CVOLT 4327 CFARAGUT345.0077 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MTN345.0077 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCY765765.0077 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARSA345345.0077 0.20000
1.2000 CHNL = 528: CVOLT 4347 CARAMPO 345.0077 0.20000

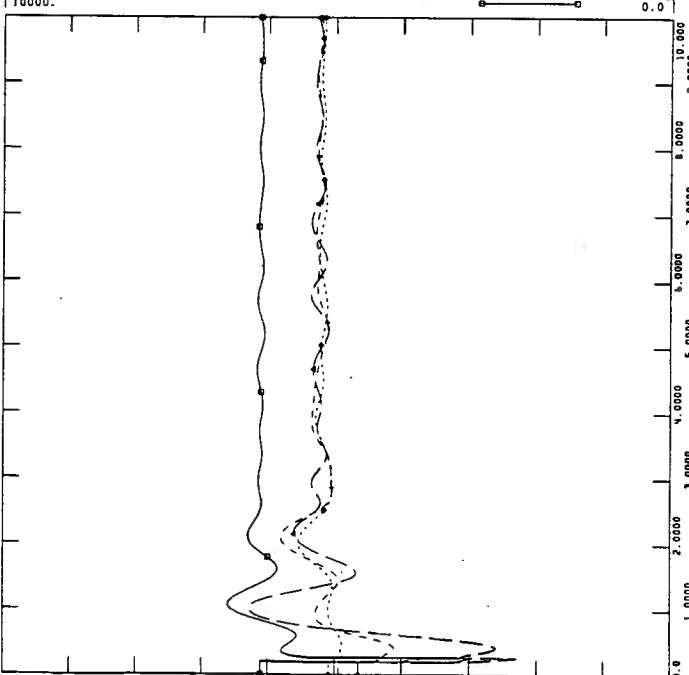


FRI, MAR 31 2000 17:17
RUN DIA PLOT 13

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN DIA: LOSS OF SINGLE UNIT FOR THREE PHASE FAULT
FAULT AT BOWLINE, TRIP BOWLINE 3

FILE: C:\SEI\Dynamics\DW4RUND1A.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENY 1000.0
CHNL = 687: CMW UPNY TO CONED 0.0

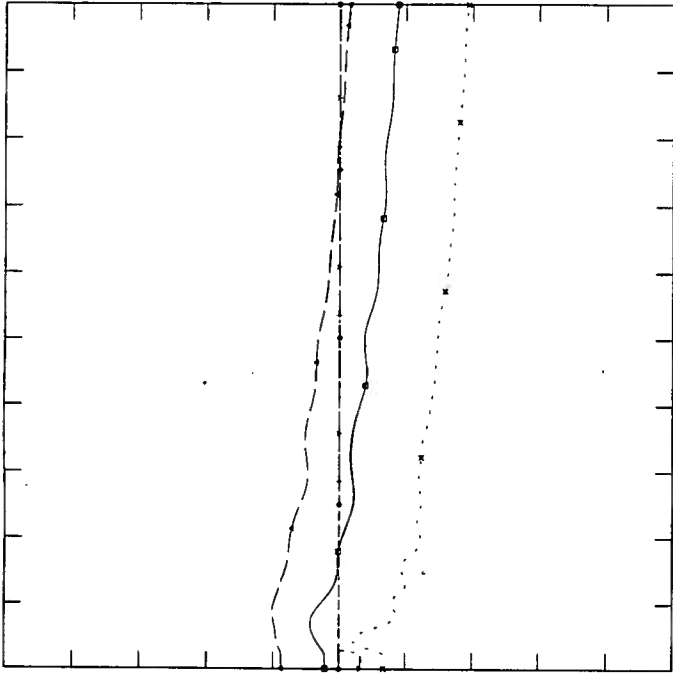
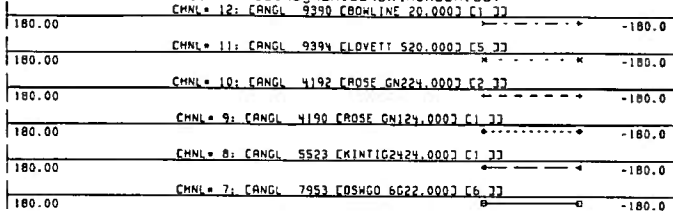


FRI, MAR 31 2000 17:17
RUN DIA PLOT 15

CONTINGENCY D2A

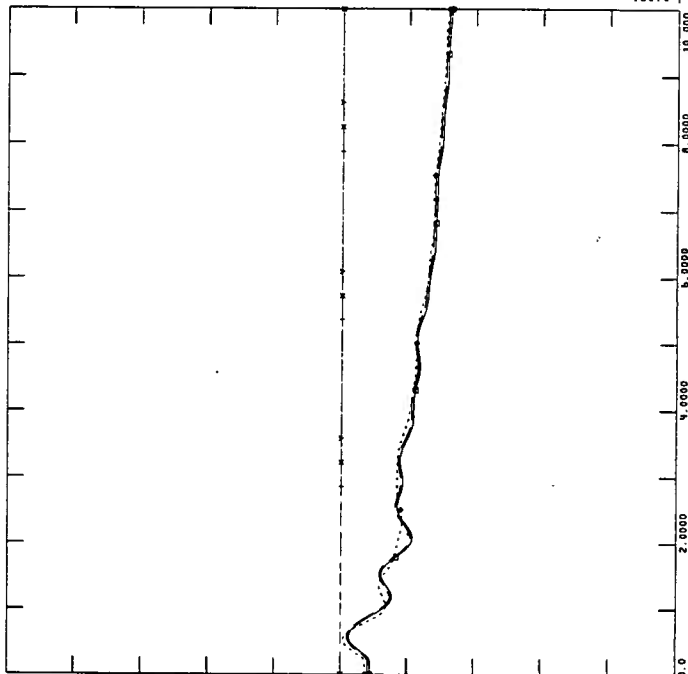
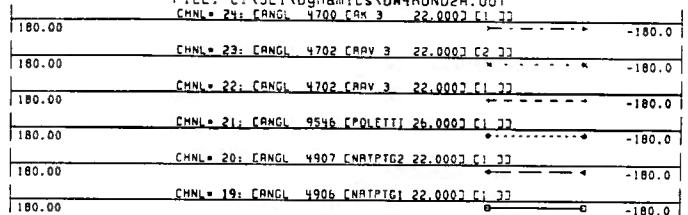
```
RECOVER FROM D1.SNP AND DW4.CNV
START OUTPUT DW4RUND2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9390 / TRIP BOWLINE 1
DROP GENERATOR 2 AT BUS 9391 / TRIP BOWLINE 2
DROP GENERATOR 1 AT BUS 9395 / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9396 / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9397 / TRIP BOWLINE 3 CT
DROP GENERATOR 1 AT BUS 9398 / TRIP BOWLINE 3 ST
DISCONNECT BUS 9300 /
DISCONNECT BUS 9301 /
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3
```

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\Dynamic\DW4RUND2A.OUT
 CHNL= 12: CANGL 9390 CBOHLINE 20.0000 C1 JJ



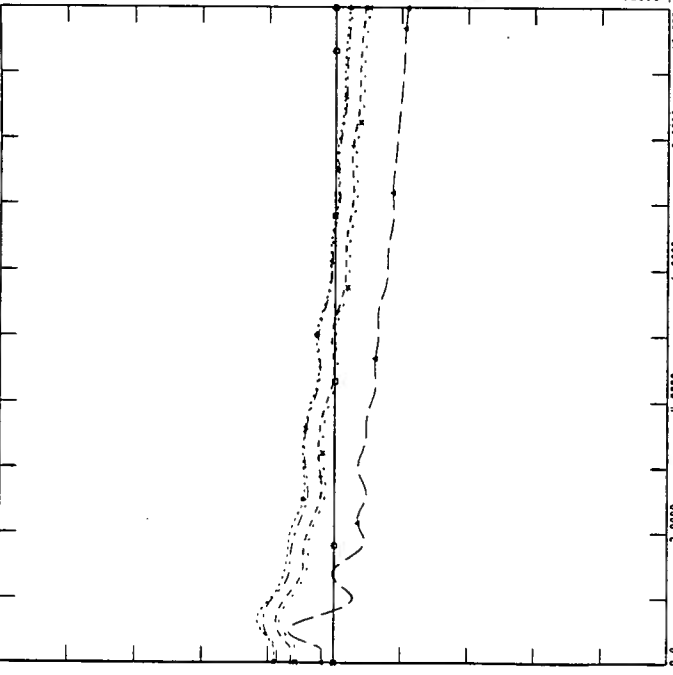
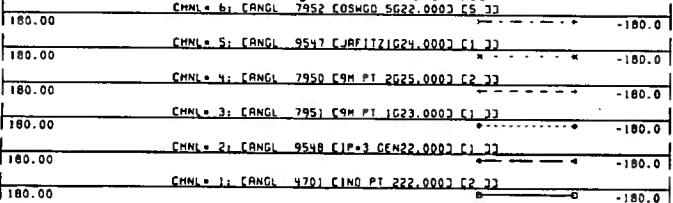
FRI, MAR 31 2000 17:17
 RUN D2A PLOT 2

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\Dynamic\DW4RUND2A.OUT
 CHNL= 24: CANGL 4700 CAV 3 22.0000 C1 JJ



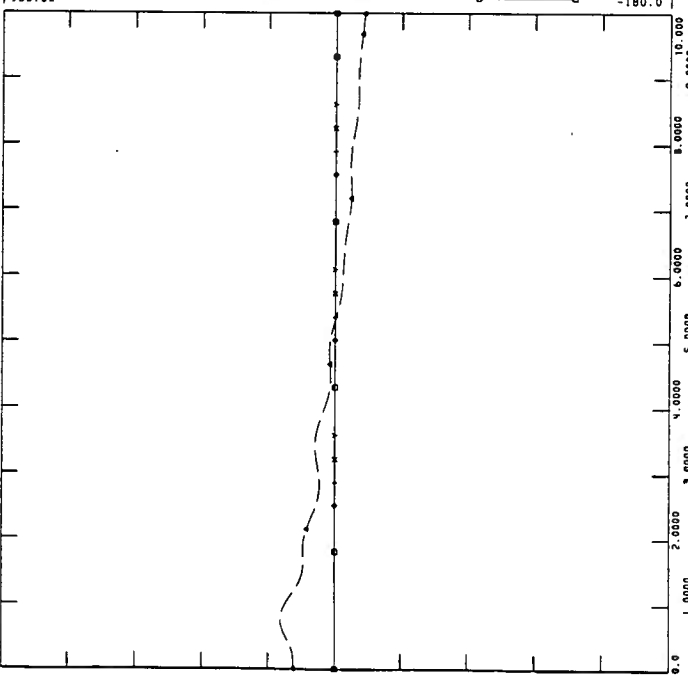
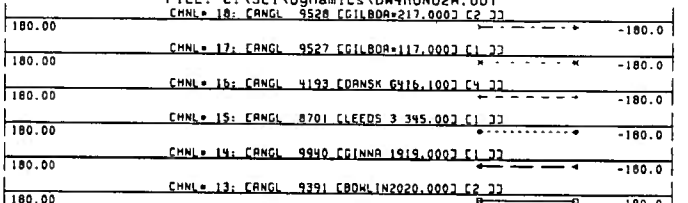
FRI, MAR 31 2000 17:17
 RUN D2A PLOT 4

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\Dynamic\DW4RUND2A.OUT
 CHNL= 6: CANGL 7952 COWSGO 5622.0000 C5 JJ



FRI, MAR 31 2000 17:17
 RUN D2A PLOT 1

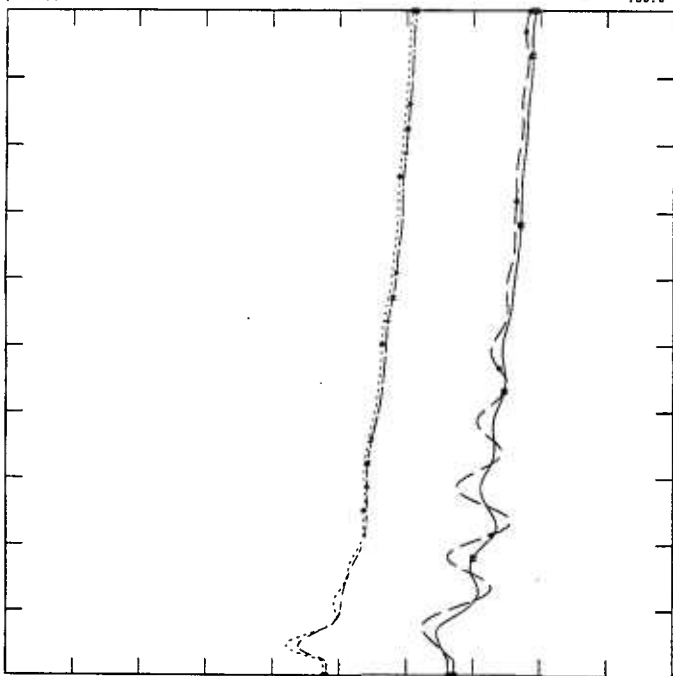
CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\Dynamic\DW4RUND2A.OUT
 CHNL= 18: CANGL 9528 CGILBDA=217.0000 C2 JJ



FRI, MAR 31 2000 17:17
 RUN D2A PLOT 3

CASE DW4: 2001/02 WINTER PEAK
 ATHNS. SITHE. ANP. BWLIN 142 ON - BWLIN 3 ON. INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADETOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\odynamics\DW4RUND2A.OUT
 CHNL= 36: CANGI 4357 CSITH GT18.0003 C1 JJ

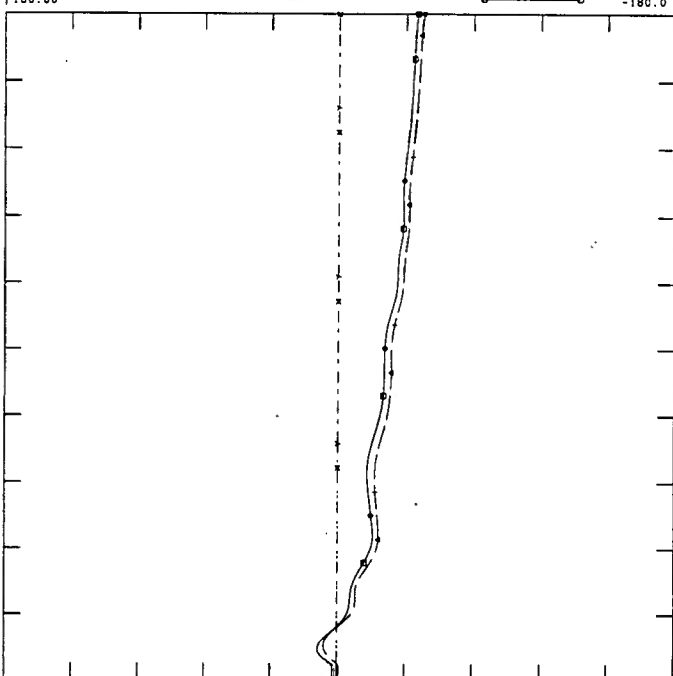
CHNL= 35: CANGI 4353 CSITH GT18.0003 C1 JJ
 CHNL= 34: CANGI 4352 CSITH GT18.0003 C1 JJ
 CHNL= 33: CANGI 4358 CSITH STN16.0003 C1 JJ
 CHNL= 32: CANGI 4706 CAST 5 20.0003 C2 JJ
 CHNL= 31: CANGI 4706 CAST 5 20.0003 C1 JJ



FRI, MAR 31 2000 17:17
 RUN D2A PLOT 6

CASE DW4: 2001/02 WINTER PEAK
 ATHNS. SITHE. ANP. BWLIN 142 ON - BWLIN 3 ON. INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADETOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\odynamics\DW4RUND2A.OUT
 CHNL= 48: CANGI 9395 CBOWLNCT18.0003 C1 JJ

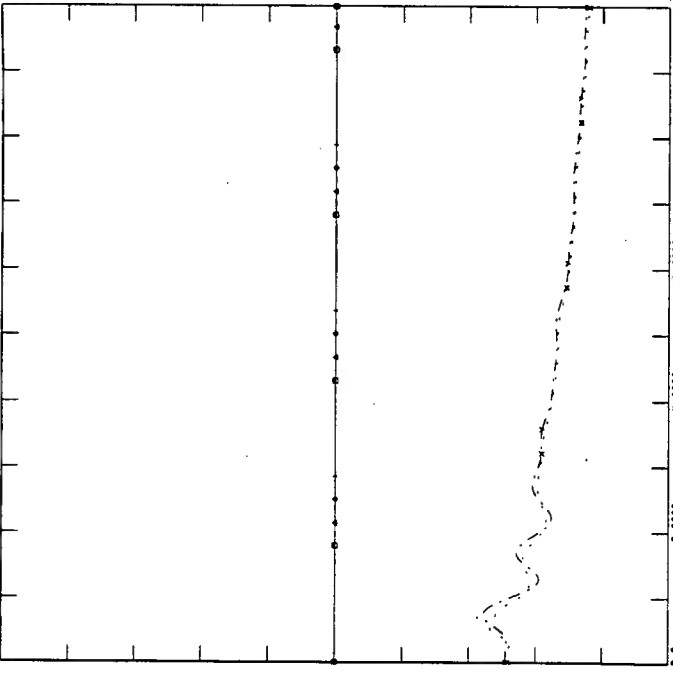
CHNL= 47: CANGI 9395 CBOWLNCT18.0003 C1 JJ
 CHNL= 46: CANGI 8711 CATHENST13.8003 C1 JJ
 CHNL= 45: CANGI 8710 CATHENST16.0003 C1 JJ
 CHNL= 44: CANGI 8709 CATHENST13.8003 C1 JJ
 CHNL= 43: CANGI 8708 CATHENST16.0003 C1 JJ



FRI, MAR 31 2000 17:17
 RUN D2A PLOT 8

CASE DW4: 2001/02 WINTER PEAK
 ATHNS. SITHE. ANP. BWLIN 142 ON - BWLIN 3 ON. INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADETOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\odynamics\DW4RUND2A.OUT
 CHNL= 30: CANGI 4705 CAST 4 20.0003 C2 JJ

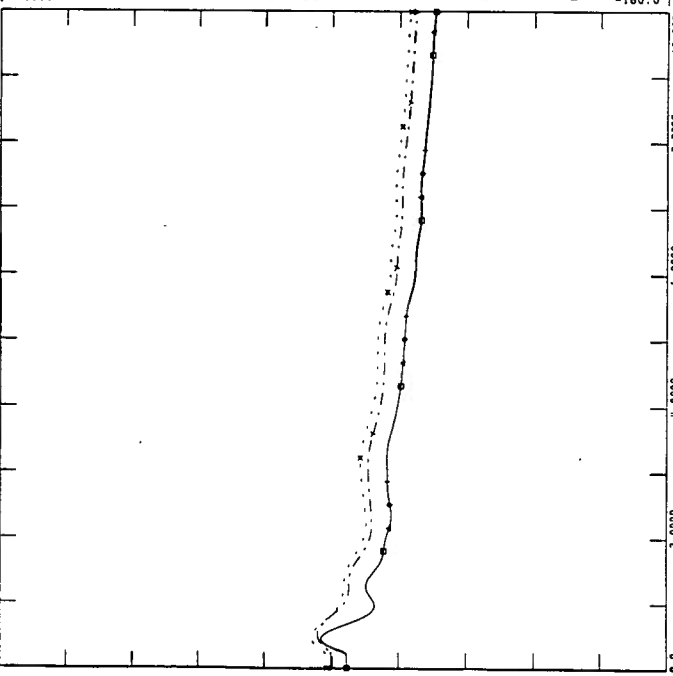
CHNL= 29: CANGI 4705 CAST 4 20.0003 C1 JJ
 CHNL= 28: CANGI 4708 CAY 2 20.0003 C2 JJ
 CHNL= 27: CANGI 4708 CAY 2 20.0003 C1 JJ
 CHNL= 26: CANGI 4707 CAY 1 20.0003 C2 JJ
 CHNL= 25: CANGI 4707 CAY 1 20.0003 C1 JJ



FRI, MAR 31 2000 17:17
 RUN D2A PLOT 5

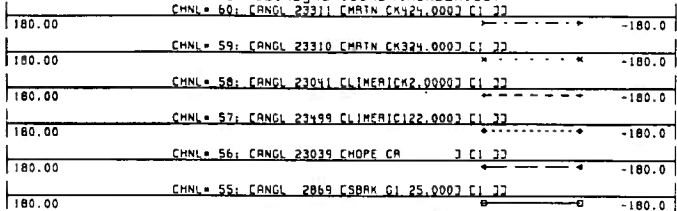
CASE DW4: 2001/02 WINTER PEAK
 ATHNS. SITHE. ANP. BWLIN 142 ON - BWLIN 3 ON. INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADETOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\odynamics\DW4RUND2A.OUT
 CHNL= 42: CANGI 8707 CATHENST13.8003 C1 JJ

CHNL= 41: CANGI 8706 CATHENST16.0003 C1 JJ
 CHNL= 40: CANGI 4364 CANPCT4 21.0003 C4 JJ
 CHNL= 39: CANGI 4363 CANPCT3 21.0003 C3 JJ
 CHNL= 38: CANGI 4362 CANPCT2 21.0003 C2 JJ
 CHNL= 37: CANGI 4361 CANPCT1 21.0003 C1 JJ



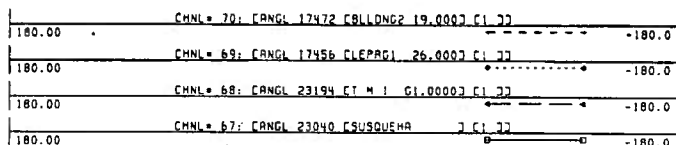
FRI, MAR 31 2000 17:17
 RUN D2A PLOT 7

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\dynamics\DW4RUND2A.OUT
 CHNL= 50: CANGL 23311 CMATN CK324.0003 C1 77



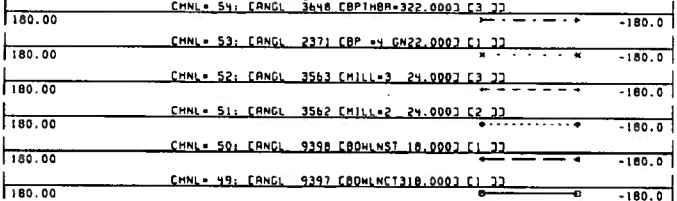
FRI, MAR 31 2000 17:17
 RUN D2A PLOT 10

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\dynamics\DW4RUND2A.OUT
 CHNL= 70: CANGL 17472 CBLLNG2 19.0003 C1 77



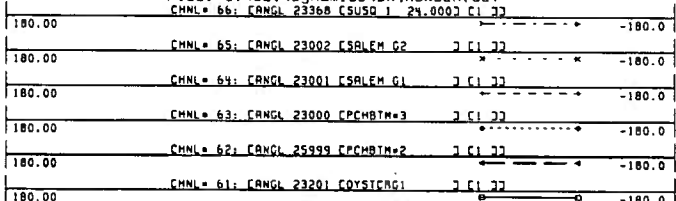
FRI, MAR 31 2000 17:17
 RUN D2A PLOT 12

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\dynamics\DW4RUND2A.OUT
 CHNL= 54: CANGL 3648 CBPTHBR=322.0003 C3 77



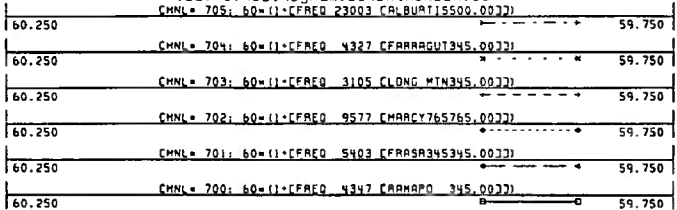
FRI, MAR 31 2000 17:17
 RUN D2A PLOT 9

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1,2 AND 3
 FILE: C:\SEI\dynamics\DW4RUND2A.OUT
 CHNL= 66: CANGL 23368 CSUSD 1 24.0003 C1 77



FRI, MAR 31 2000 17:17
 RUN D2A PLOT 11

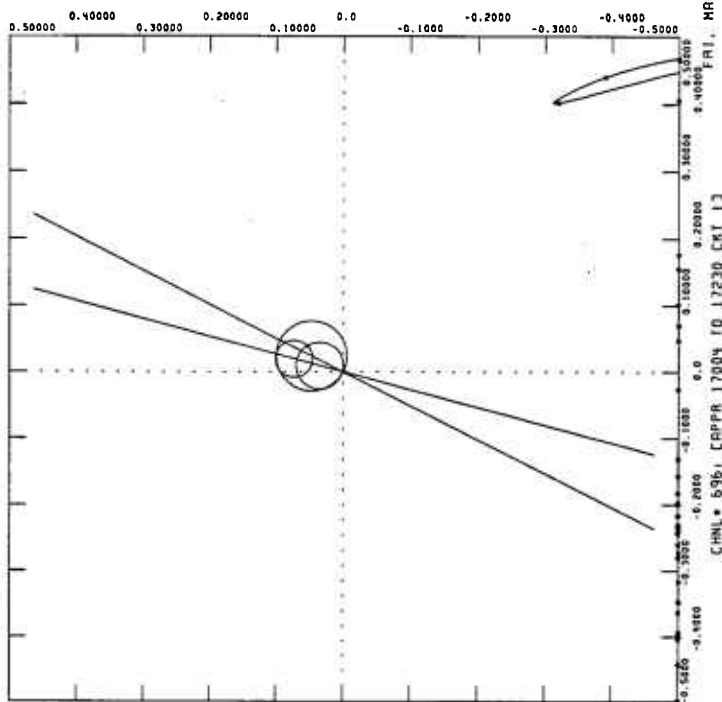
CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1.2 AND 3
 FILE: C:\SEI\Dynamic\DW4RUND2A.OUT
 CHNL = 705: 60 (1)-CFREQ 23003 (ALBUT15500.0077)



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 RUN D2A PLOT 14

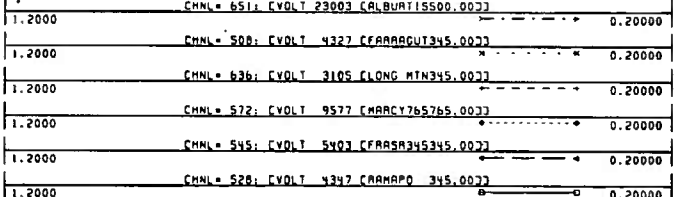
CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1.2 AND 3
 FILE: C:\SEI\Dynamic\DW4RUND2A.OUT

RELAY: DISTA
 TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
 CHNL = 697: CAPPX 17004 TO 17230 CKT 13



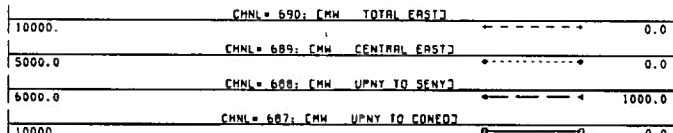
FRI, MAR 31 2000 17:17
 RUN D2A PLOT 16

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1.2 AND 3
 FILE: C:\SEI\Dynamic\DW4RUND2A.OUT
 CHNL = 651: CYOLT 23003 (ALBUT15500.0077)

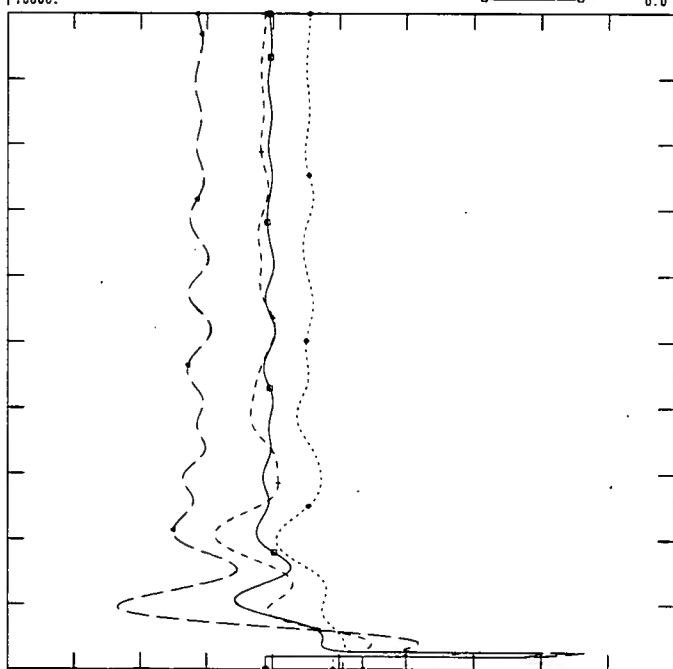
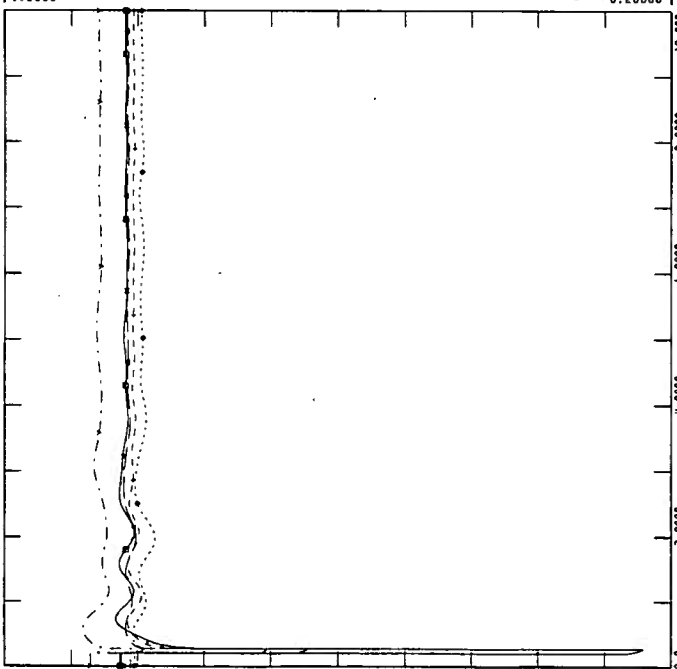


FRI, MAR 31 2000 17:17
 RUN D2A PLOT 13

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D2A: LOSS OF PLANT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP BOWLINE 1.2 AND 3
 FILE: C:\SEI\Dynamic\DW4RUND2A.OUT



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 RUN D2A PLOT 15



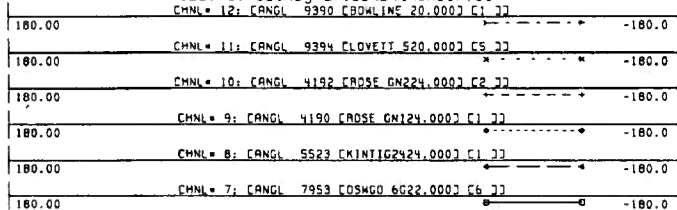
CONTINGENCY D3A

RECOVER FROM D1.SNP AND DW4.CNV
START OUTPUT DW4RUND3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 9582 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT INDN PT 3
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DROP GENERATOR 1 AT BUS 9548 / TRIP INDN PT 3
TRIP LINE FROM BUS 4313 TO BUS 9582 CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT
CHNL= 12: CANGI 9390 CROMLINE 20.000 [C1 JJ]

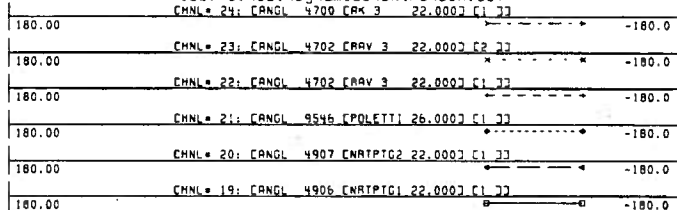


FRI, MAR 31 2000 17:17
RUN D3A PLOT 2



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT
CHNL= 24: CANGI 4700 CAV 3 22.000 [C1 JJ]

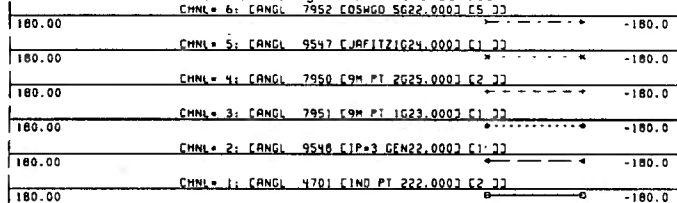


FRI, MAR 31 2000 17:17
RUN D3A PLOT 4



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT
CHNL= 6: CANGI 7952 CASHGO 5622.000 [C5 JJ]

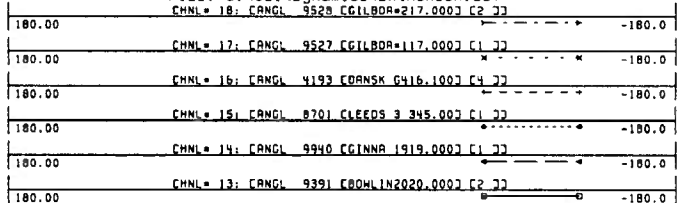


FRI, MAR 31 2000 17:17
RUN D3A PLOT 1



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT
CHNL= 18: CANGI 9528 C6ILBDA 217.000 [C2 JJ]

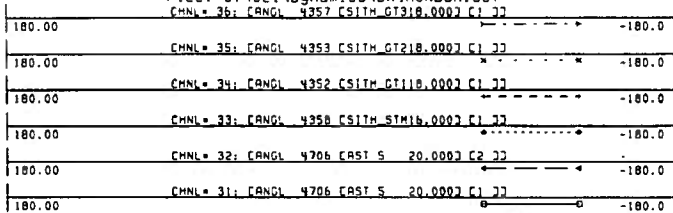


FRI, MAR 31 2000 17:17
RUN D3A PLOT 3



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT
CHNL = 36; CANGL 4357 CSITH GT118.0000 C1 JJ

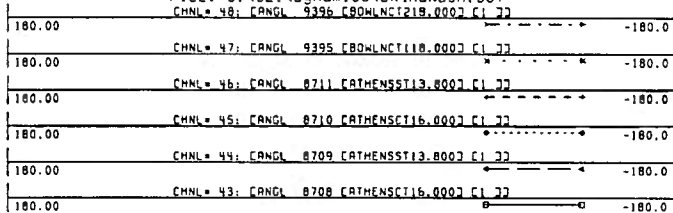


FRI, MAR 31 2000 17:17
RUN D3A PLOT 6



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT
CHNL = 48; CANGL 9395 CBWLINCT118.0000 C1 JJ

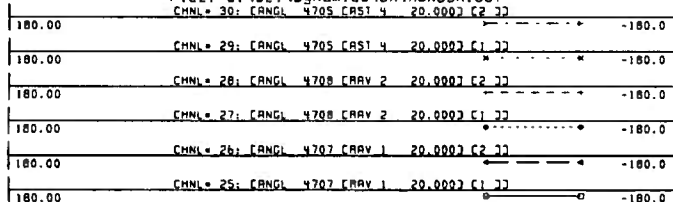


FRI, MAR 31 2000 17:17
RUN D3A PLOT 8



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT
CHNL = 30; CANGL 4705 CAV1 4 20.0000 C2 JJ

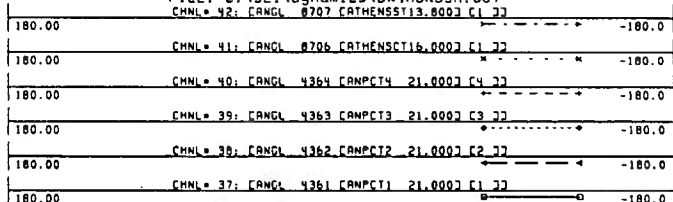


FRI, MAR 31 2000 17:17
RUN D3A PLOT 5



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INON PT 3, TRIP INON PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT
CHNL = 42; CANGL 8707 CATHENSST13.0000 C1 JJ

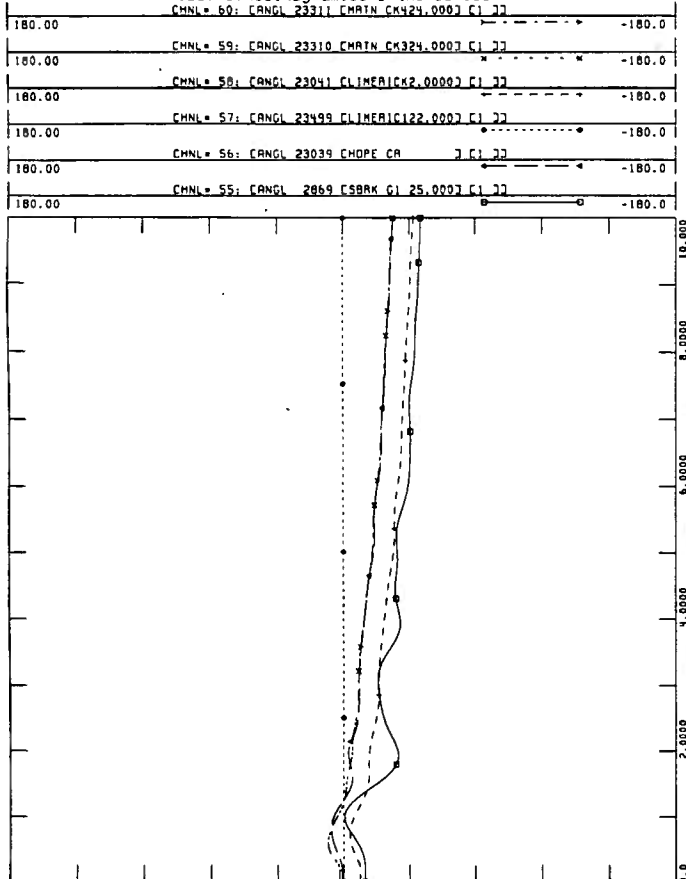


FRI, MAR 31 2000 17:17
RUN D3A PLOT 7

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\dynamics\DW4RUND3A.OUT

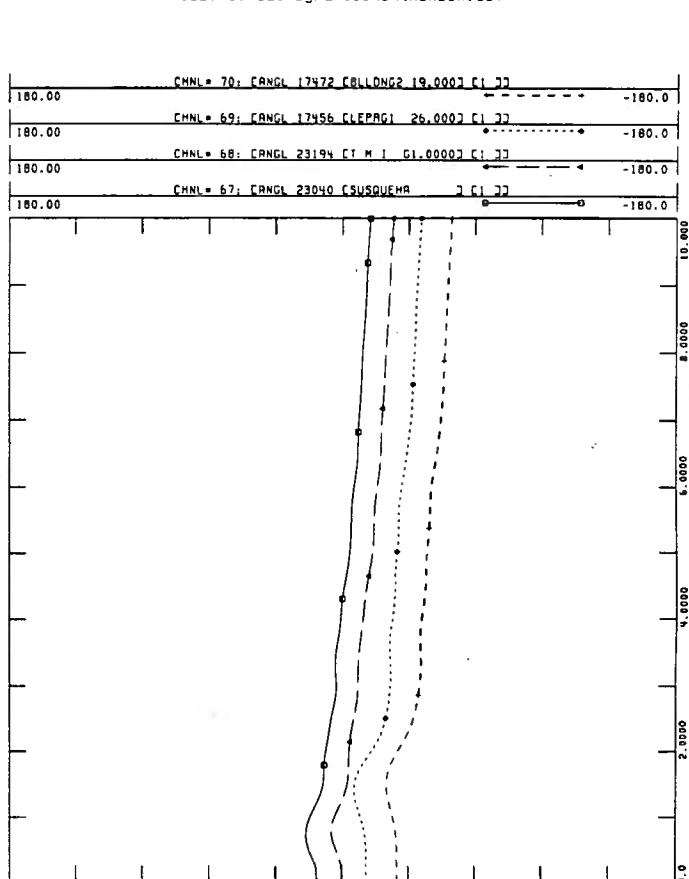
CHNL= 69: CANGI 23311 CMATN CM424.0007 C1 JJ



FRI, MAR 31 2000 17:17
RUN D3A PLOT 10

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\dynamics\DW4RUND3A.OUT

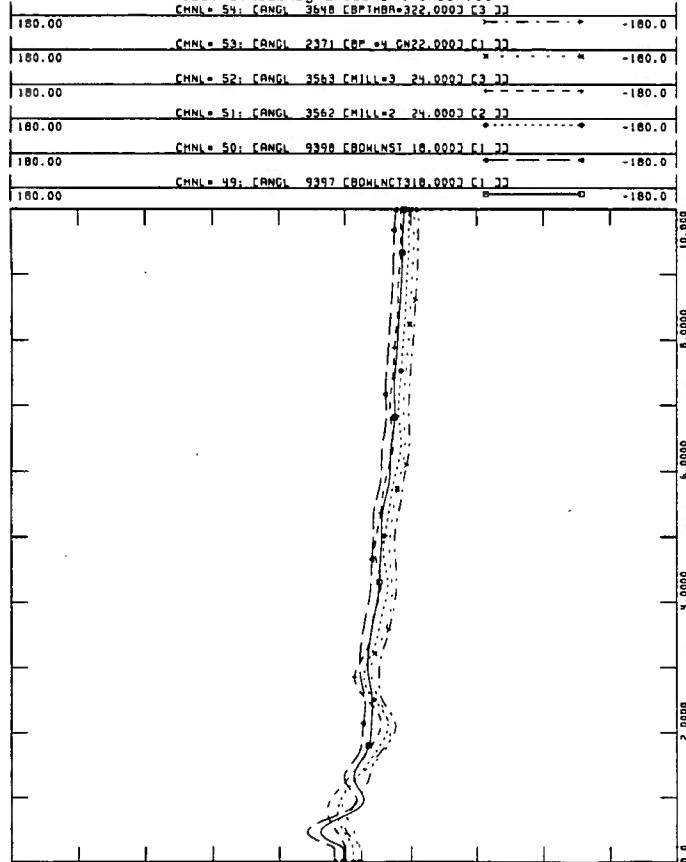


FRI, MAR 31 2000 17:17
RUN D3A PLOT 12

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\dynamics\DW4RUND3A.OUT

CHNL= 54: CANGI 3648 CBPTBAR=322.0007 C3 JJ

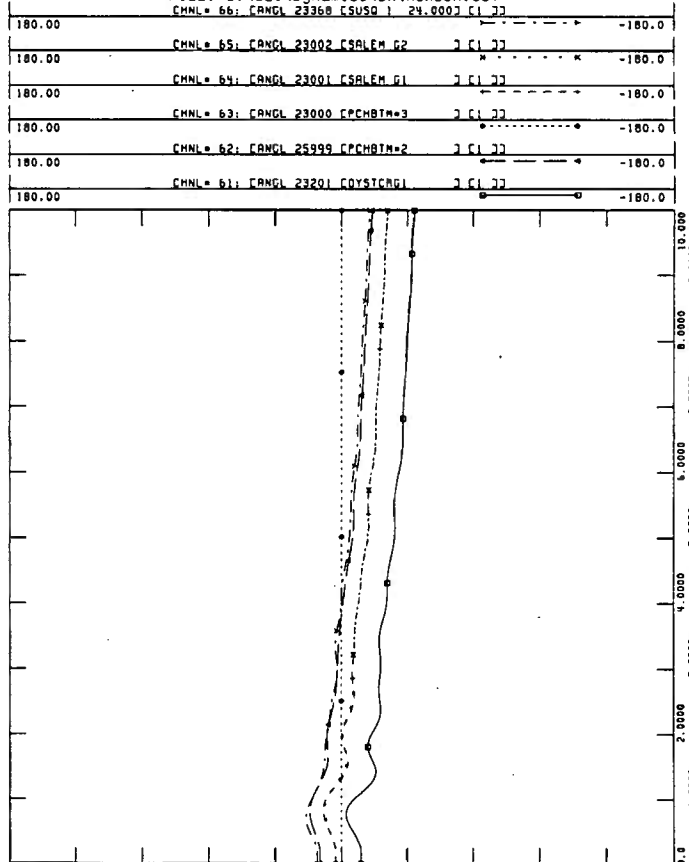


FRI, MAR 31 2000 17:17
RUN D3A PLOT 9

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\dynamics\DW4RUND3A.OUT

CHNL= 66: CANGI 23368 CSUSQ 1 24.0007 C1 JJ

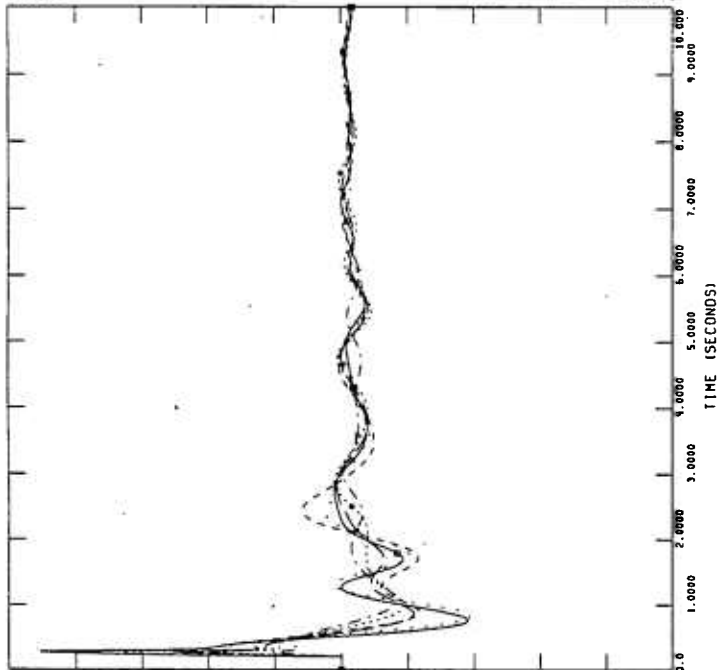


FRI, MAR 31 2000 17:17
RUN D3A PLOT 11

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT
CHNL = 705: 60-11-CFREQ 23003 CALBURT15500.0077

60.250 CHNL = 705: 60-11-CFREQ 4327 CFARRAGUT345.0077 59.750
60.250 CHNL = 703: 60-11-CFREQ 3155 CLONG MTN345.0077 59.750
60.250 CHNL = 702: 60-11-CFREQ 9577 MARCY765765.0077 59.750
60.250 CHNL = 701: 60-11-CFREQ 5403 CFARRAGUT345.0077 59.750
60.250 CHNL = 700: 60-11-CFREQ 5397 CARRAPO 345.0077 59.750



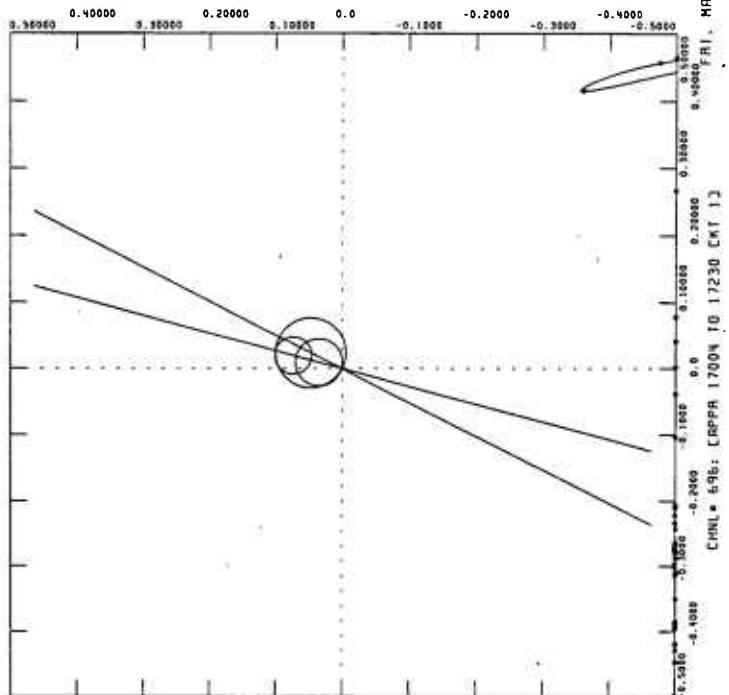
FRI, MAR 31 2000 17:17
RUN D3A PLOT 14

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT

RELAY: DISTR

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

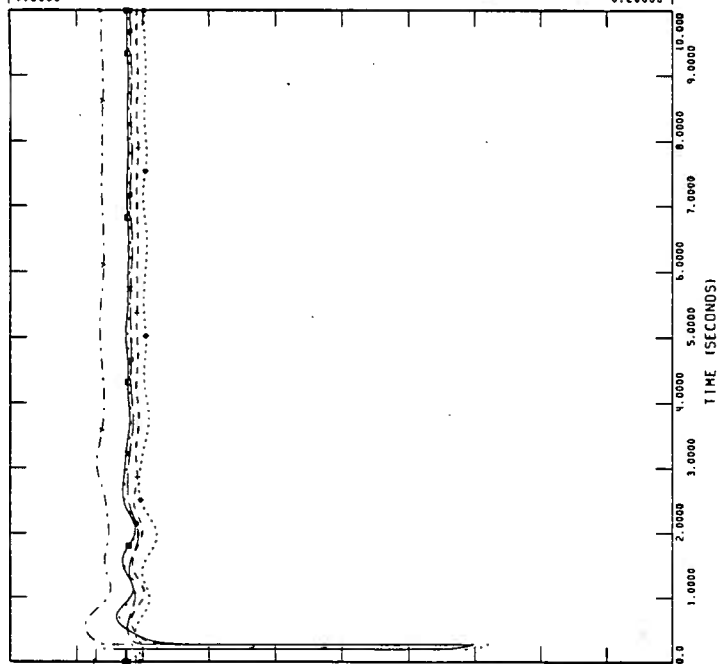


FRI, MAR 31 2000 17:17
RUN D3A PLOT 16

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT
CHNL = 651: CYOLT 23003 CALBURT15500.0077

1.2000 CHNL = 508: CYOLT 4327 CFARRAGUT345.0077 0.20000
1.2000 CHNL = 636: CYOLT 3105 CLONG MTN345.0077 0.20000
1.2000 CHNL = 572: CYOLT 9577 MARCY765765.0077 0.20000
1.2000 CHNL = 545: CYOLT 5403 CFARRAGUT345.0077 0.20000
1.2000 CHNL = 528: CYOLT 4397 CARRAPO 345.0077 0.20000

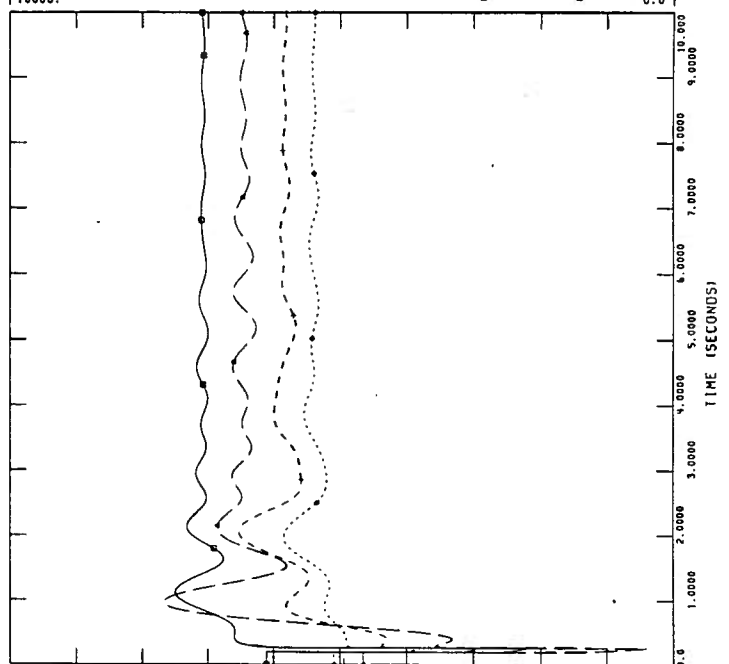


FRI, MAR 31 2000 17:17
RUN D3A PLOT 13

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D3A: LOSS OF ADJACENT COMPLEX FOR THREE PHASE FAULT
FAULT AT INDN PT 3, TRIP INDN PT 3

FILE: C:\SEI\Dynamic\DW4RUND3A.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENY 1000.0
CHNL = 687: CMW UPNY TO CONED 0.0

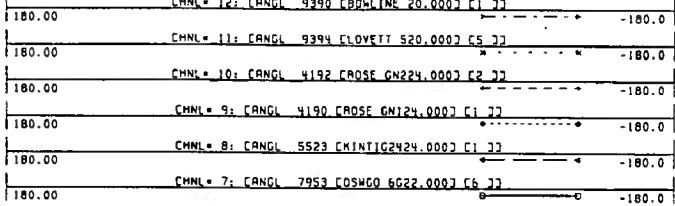


FRI, MAR 31 2000 17:17
RUN D3A PLOT 15

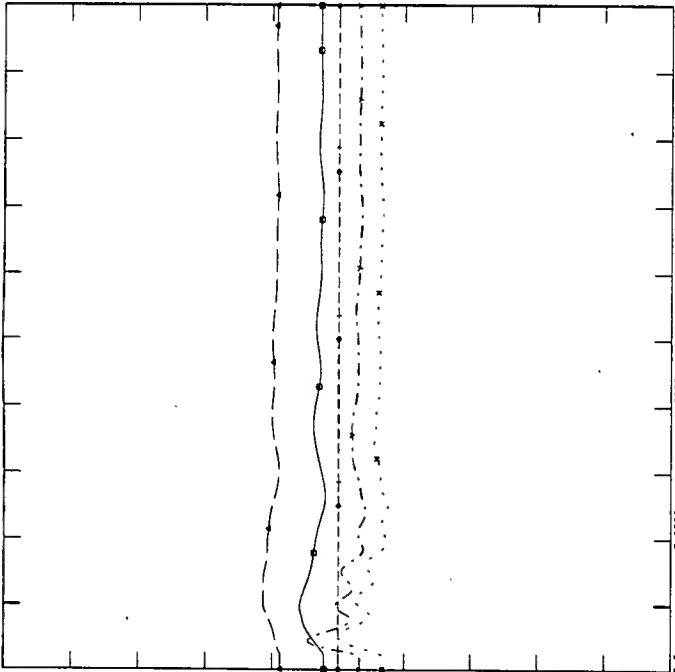
CONTINGENCY D4A

RECOVER FROM D1.SNP AND DW4.CNV
START OUTPUT DW4RUND4A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4347 CKT 1 / TRIP LADENTOWN-RAMAPO
CLEAR FAULT
RUN FOR 31 CYCLES PRINT 0 PLOT 3
APPLY FAULT BUS 4347 IMPEDANCE 0.119 2.642 OHMS BASEKV 345 / RECLOSE AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

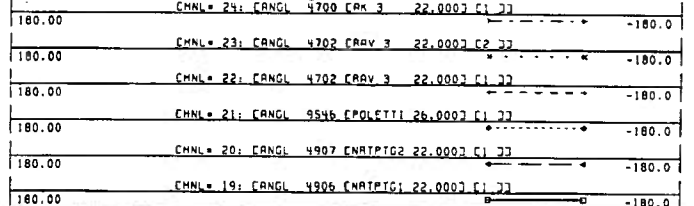
CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\dynamics\DW4RUND4A.OUT
 CHNL = 12: CANGI 9390 CROHLINE 20.0000 C1 JJ



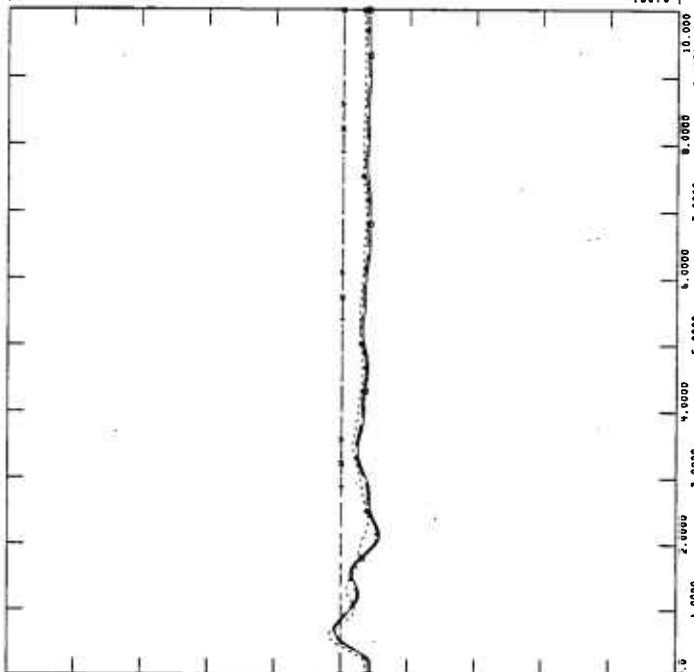
FRI, MAR 31 2000 17:17
 RUN D4A PLOT 2



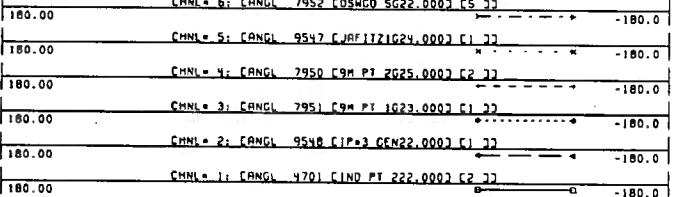
CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\dynamics\DW4RUND4A.OUT
 CHNL = 24: CANGI 4700 CAV 3 22.0000 C1 JJ



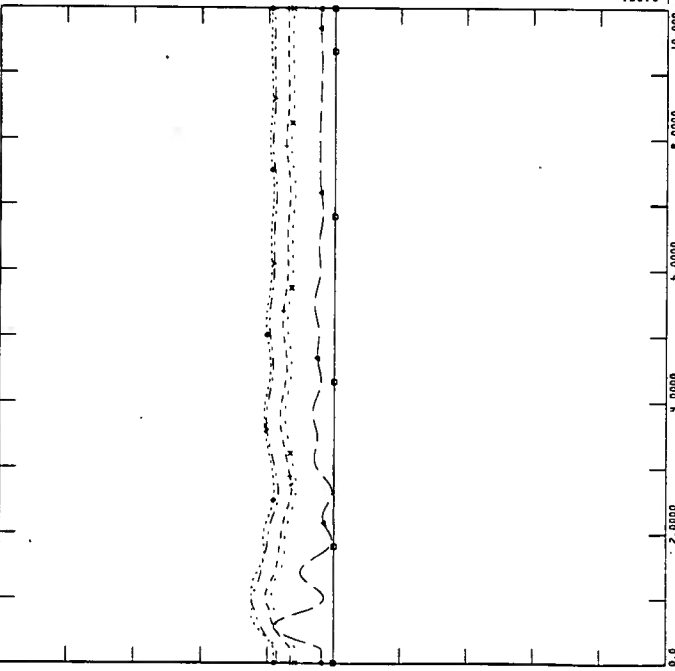
FRI, MAR 31 2000 17:17
 RUN D4A PLOT 4



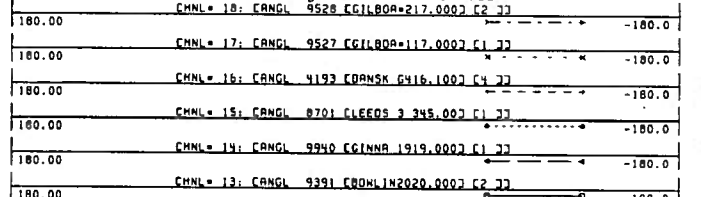
CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\dynamics\DW4RUND4A.OUT
 CHNL = 6: CANGI 7952 COSWGO 5622.0000 C5 JJ



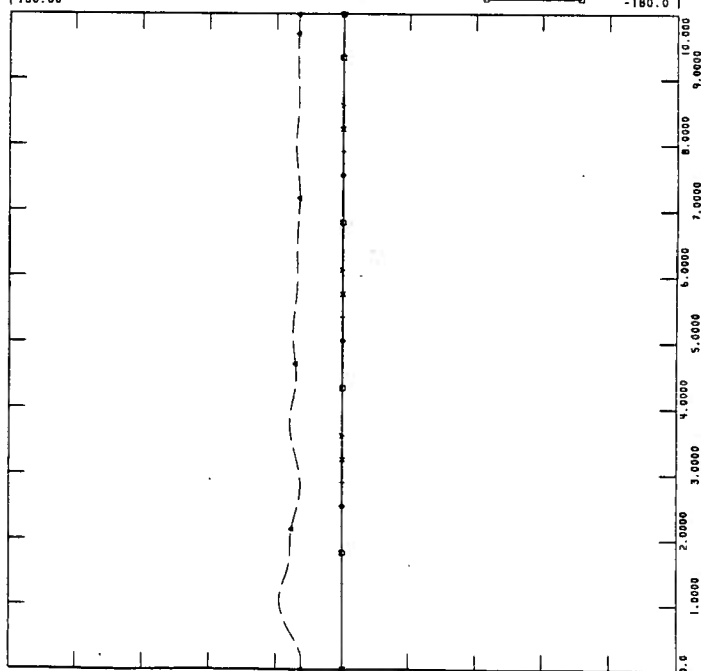
FRI, MAR 31 2000 17:17
 RUN D4A PLOT 1



CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\dynamics\DW4RUND4A.OUT
 CHNL = 18: CANGI 9528 CGL180A 217.0000 C2 JJ

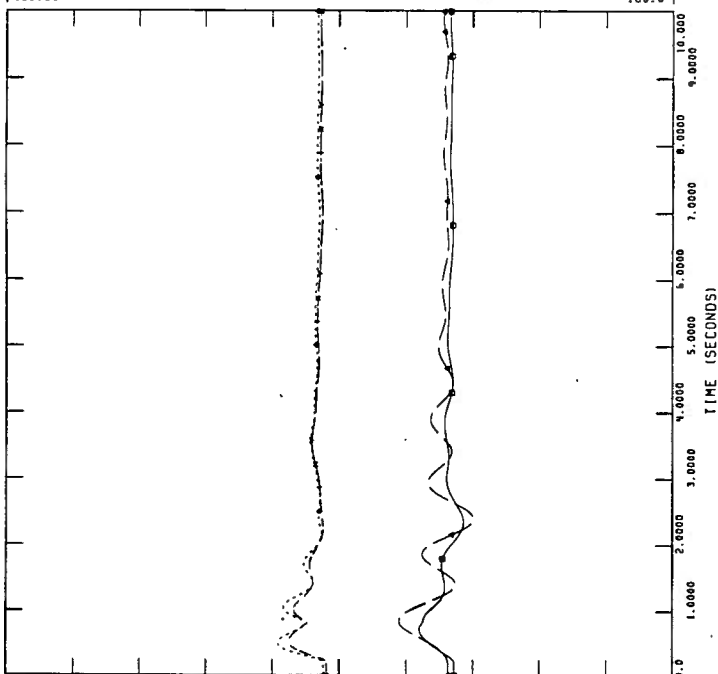


FRI, MAR 31 2000 17:17
 RUN D4A PLOT 3



CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\dynamics\DW4RUND4A.OUT
 CHNL= 36: CANGI 4357 CSITH GT18.0000 C1 JJ

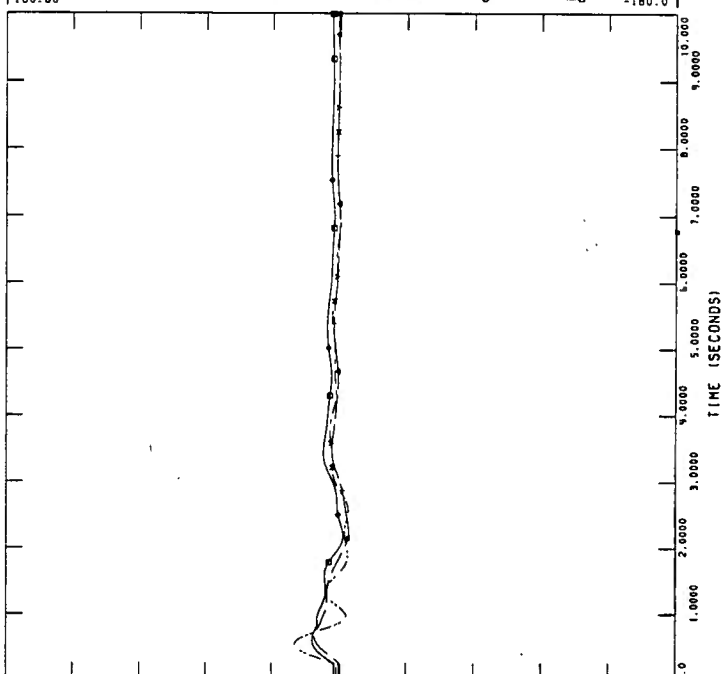
180.00 CHNL= 35: CANGI 4353 CSITH GT18.0000 C1 JJ -180.0
 180.00 CHNL= 34: CANGI 4352 CSITH GT18.0000 C1 JJ -180.0
 180.00 CHNL= 33: CANGI 4350 CSITH ST16.0000 C1 JJ -180.0
 180.00 CHNL= 32: CANGI 4706 CAST 5 20.0000 C2 JJ -180.0
 180.00 CHNL= 31: CANGI 4706 CAST 5 20.0000 C1 JJ -180.0



FRI, MAR 31 2000 17:17
 RUN D4A PLOT 6

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\dynamics\DW4RUND4A.OUT
 CHNL= 46: CANGI 9395 CATHNSCT18.0000 C1 JJ

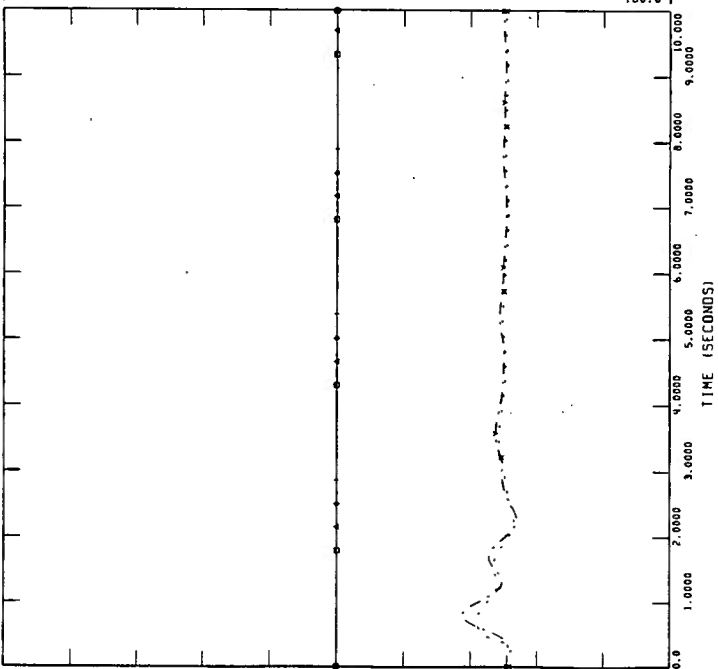
180.00 CHNL= 47: CANGI 9395 CATHNSCT18.0000 C1 JJ -180.0
 180.00 CHNL= 46: CANGI 8711 CATHNSST13.8000 C1 JJ -180.0
 180.00 CHNL= 45: CANGI 8710 CATHNSCT16.0000 C1 JJ -180.0
 180.00 CHNL= 44: CANGI 8709 CATHNSST13.8000 C1 JJ -180.0
 180.00 CHNL= 43: CANGI 8708 CATHNSCT16.0000 C1 JJ -180.0



FRI, MAR 31 2000 17:17
 RUN D4A PLOT 7

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\dynamics\DW4RUND4A.OUT
 CHNL= 30: CANGI 4705 CAST 4 20.0000 C2 JJ

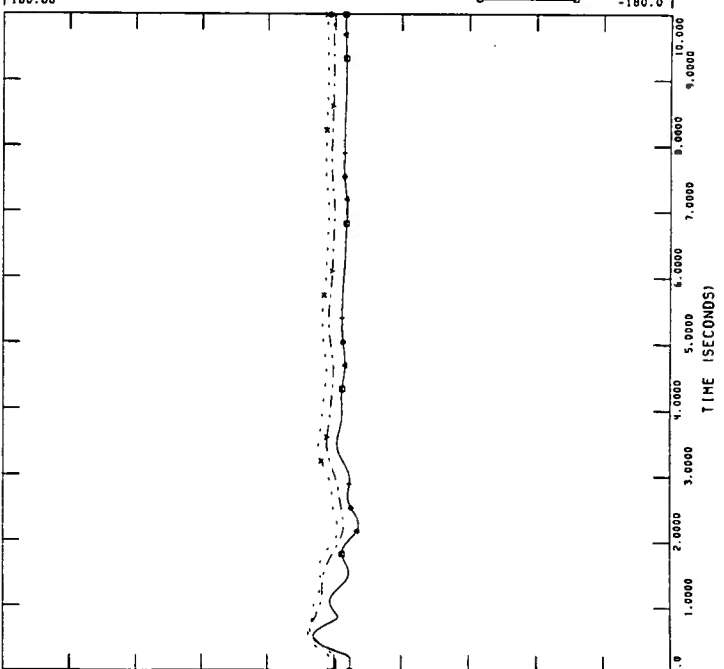
180.00 CHNL= 29: CANGI 4705 CAST 4 20.0000 C1 JJ -180.0
 180.00 CHNL= 28: CANGI 4708 CARV 2 20.0000 C2 JJ -180.0
 180.00 CHNL= 27: CANGI 4708 CARV 2 20.0000 C1 JJ -180.0
 180.00 CHNL= 26: CANGI 4707 CARV 1 20.0000 C2 JJ -180.0
 180.00 CHNL= 25: CANGI 4707 CARV 1 20.0000 C1 JJ -180.0



FRI, MAR 31 2000 17:17
 RUN D4A PLOT 8

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
 FILE: C:\SEI\dynamics\DW4RUND4A.OUT
 CHNL= 42: CANGI 8707 CATHNSST13.8000 C1 JJ

180.00 CHNL= 41: CANGI 8706 CATHNSCT16.0000 C1 JJ -180.0
 180.00 CHNL= 40: CANGI 9354 CANPCT4 21.0000 C4 JJ -180.0
 180.00 CHNL= 39: CANGI 9353 CANPCT3 21.0000 C3 JJ -180.0
 180.00 CHNL= 38: CANGI 9352 CANPCT2 21.0000 C2 JJ -180.0
 180.00 CHNL= 37: CANGI 9351 CANPCT1 21.0000 C1 JJ -180.0

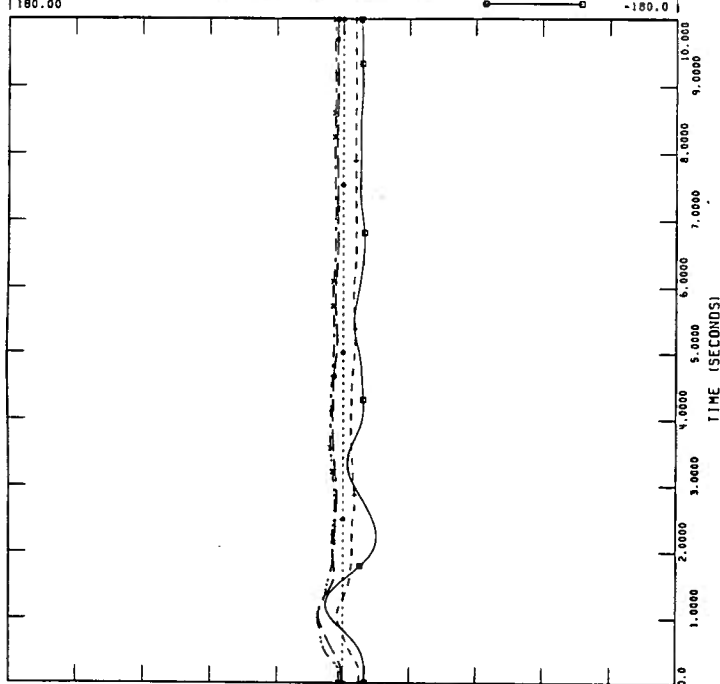


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 RUN D4A PLOT 9



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW4RUND4A.OUT
CHNL= 69: [CANGL 2331] [MATN CK424.000] C1 J2

CHNL= 59: [CANGL 23310] [MATN CK324.000] C1 J2
CHNL= 58: [CANGL 23091] [LIMERICK2.0000] C1 J2
CHNL= 57: [CANGL 23499] [LIMERICK122.000] C1 J2
CHNL= 56: [CANGL 23039] [HOPE CR] J C1 J2
CHNL= 55: [CANGL 2089] [SBRK G1 25.000] C1 J2

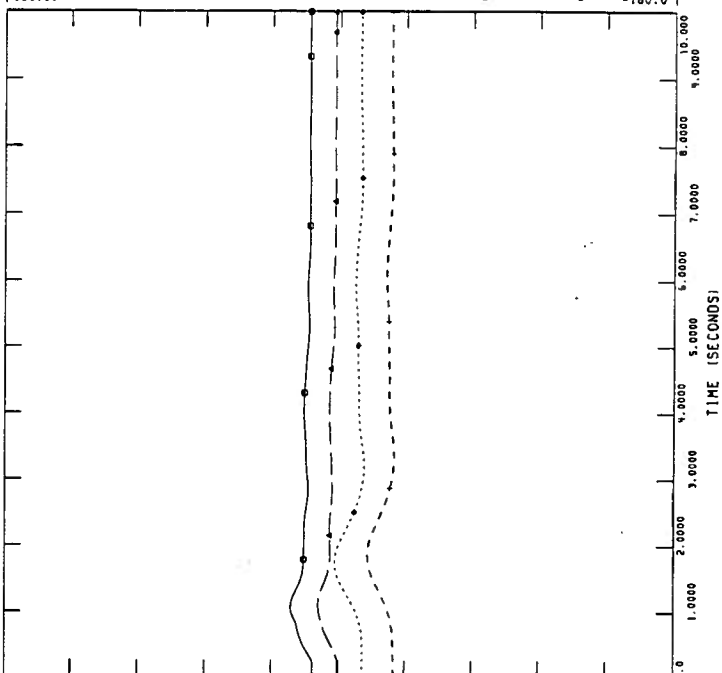


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RUN D4A PLOT 10



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW4RUND4A.OUT

CHNL= 70: [CANGL 17472] [BILDING2 19.000] C1 J2
CHNL= 69: [CANGL 17456] [LEPAG] 26.000 C1 J2
CHNL= 68: [CANGL 23194] [CT M I G1.0000] C1 J2
CHNL= 67: [CANGL 23040] [SUSQUEHA] J C1 J2

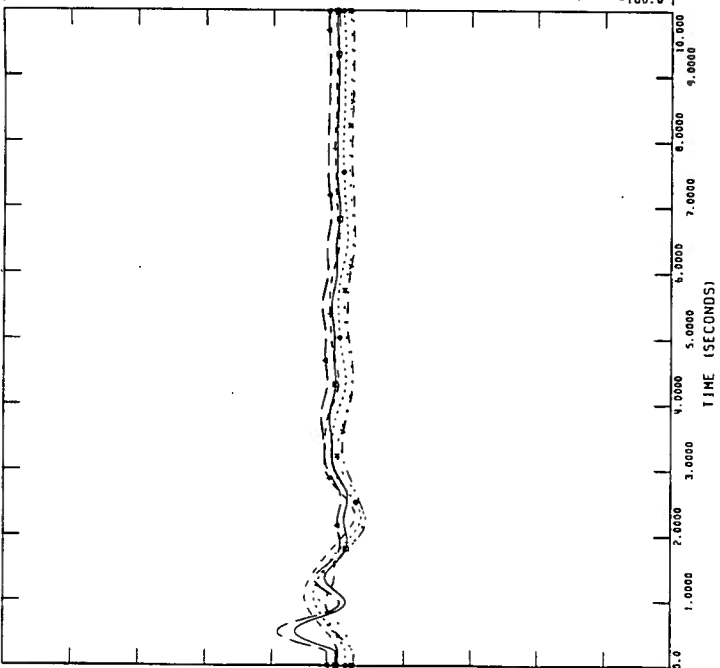


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RUN D4A PLOT 11



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW4RUND4A.OUT
CHNL= 54: [CANGL 3548] [COPTHRA322.000] C3 J2

CHNL= 53: [CANGL 2371] [COP #4 GN22.000] C1 J2
CHNL= 52: [CANGL 3563] [MILL=3 24.000] C3 J2
CHNL= 51: [CANGL 3562] [MILL=2 24.000] C2 J2
CHNL= 50: [CANGL 9398] [CROWINST 18.000] C1 J2
CHNL= 49: [CANGL 9397] [CROWINST318.000] C1 J2

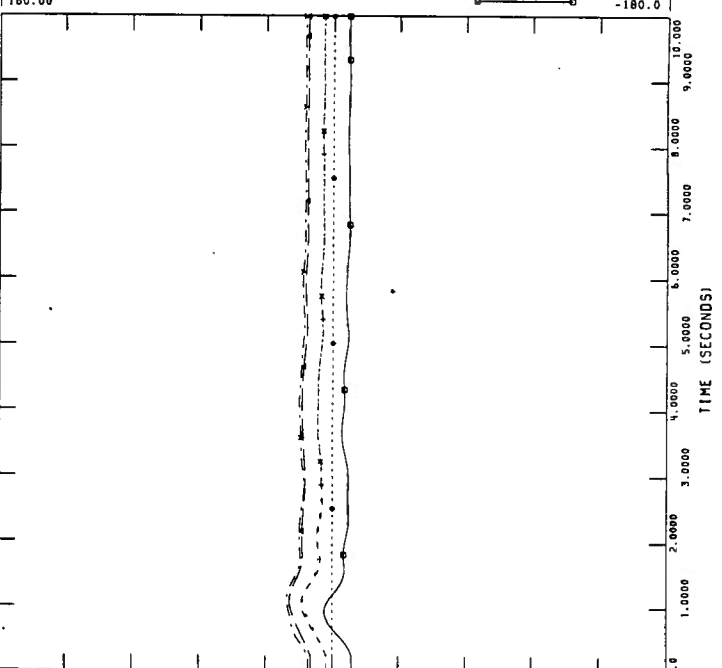


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RUN D4A PLOT 9



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING
FILE: C:\SEI\Dynamic\DW4RUND4A.OUT
CHNL= 66: [CANGL 23368] [SUSQ J 24.000] C1 J2

CHNL= 65: [CANGL 23002] [SALEM G2] J C1 J2
CHNL= 64: [CANGL 23001] [SALEM G1] J C1 J2
CHNL= 63: [CANGL 23000] [CPCBTHme3] J C1 J2
CHNL= 62: [CANGL 25999] [CPCBTHme2] J C1 J2
CHNL= 61: [CANGL 23201] [COYSTCAG1] J C1 J2

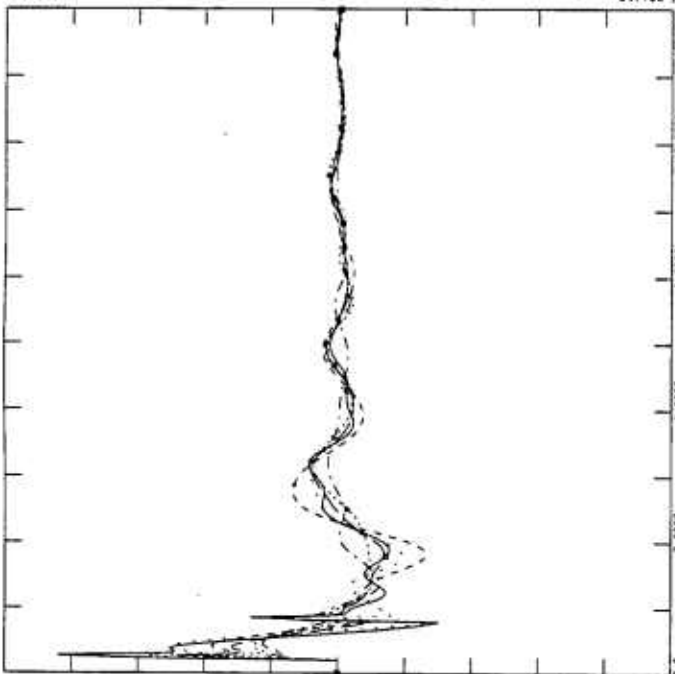


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RUN D4A PLOT 11

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DW4RUND4A.OUT
CHNL = 705: 60-11-CPREG 23003 CALBUAT15500.0073

60.250 CHNL = 704: 60-11-CPREG 4327 CFARAGUT345.0073 59.750
60.250 CHNL = 703: 60-11-CPREG 3105 CLONG MTH345.0073 59.750
60.250 CHNL = 702: 60-11-CPREG 9577 MARCY765765.0073 59.750
60.250 CHNL = 701: 60-11-CPREG 5403 CFARAS345345.0073 59.750
60.250 CHNL = 700: 60-11-CPREG 4347 CARAPO 345.0073 59.750

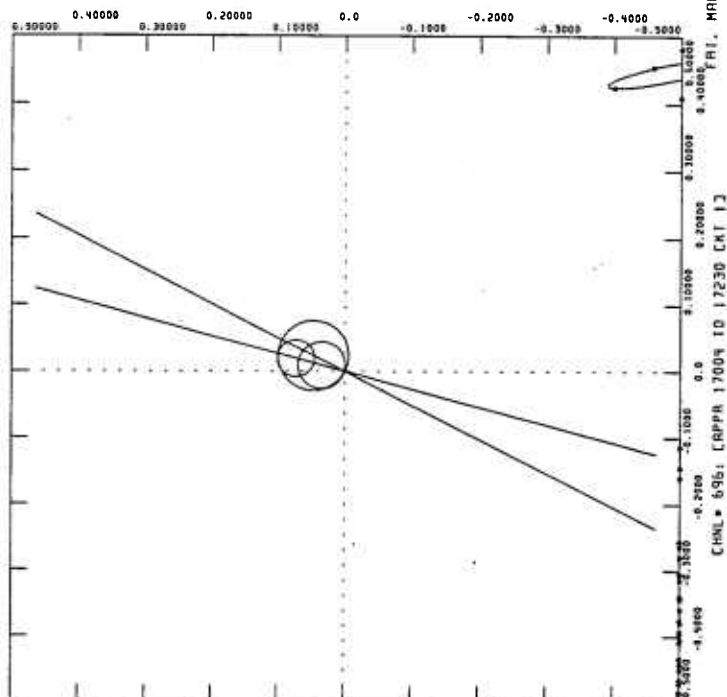


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RUN D4A PLOT 14

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DW4RUND4A.OUT

RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

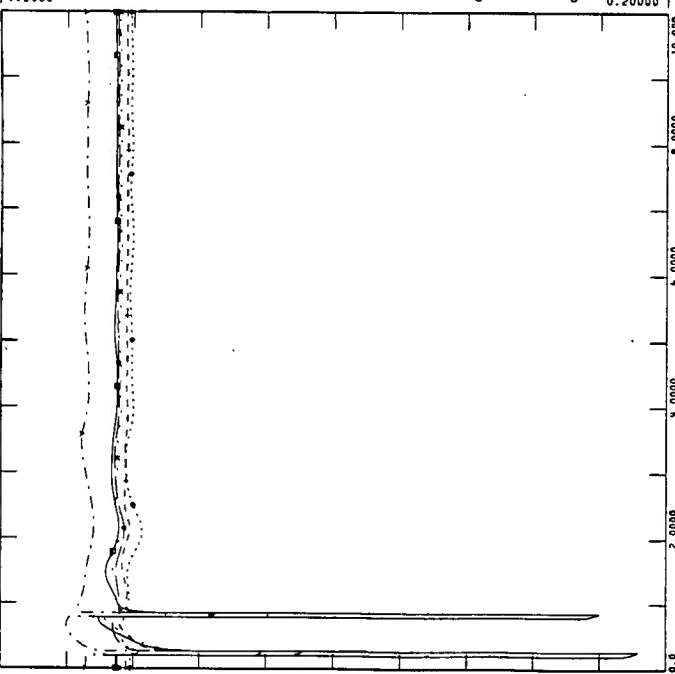


FRI, MAR 31 2000 17:17
RUN D4A PLOT 15

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DW4RUND4A.OUT
CHNL = 651: CVOLT 23003 CALBUAT15500.0073

1.2000 CHNL = 500: CVOLT 4327 CFARAGUT345.0073 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MTH345.0073 0.20000
1.2000 CHNL = 572: CVOLT 9577 MARCY765765.0073 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARAS345345.0073 0.20000
1.2000 CHNL = 528: CVOLT 4347 CARAPO 345.0073 0.20000

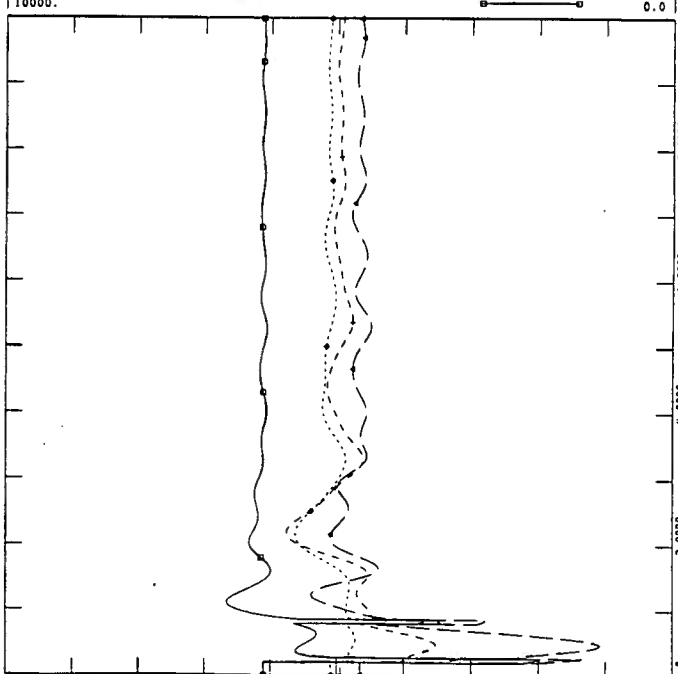


FRI, MAR 31 2000 17:17
RUN D4A PLOT 13

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN D4A: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO RAMAPO, RECLOSING

FILE: C:\SEI\Dynamic\DW4RUND4A.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENY 1000.0
CHNL = 687: CMW UPNY TO CONEQ 0.0

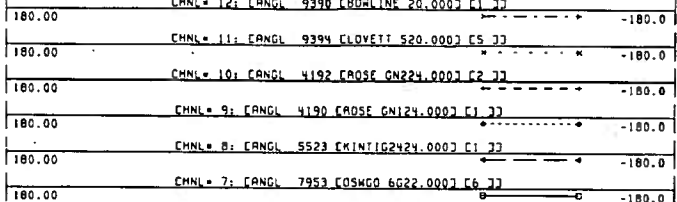


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RUN D4A PLOT 16

CONTINGENCY D4B

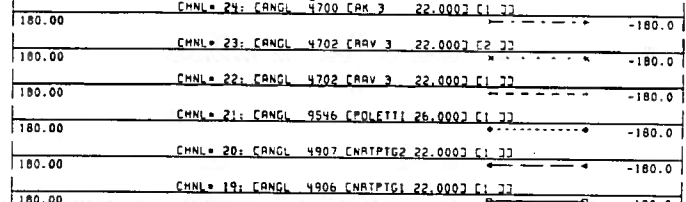
RECOVER FROM D1.SNP AND DW4.CNV
START OUTPUT DW4RUND4B.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DW4RUN048.OUT
 CHNL= 12: CANGL 9390 CBOHLINE 20.000 C1 JJ



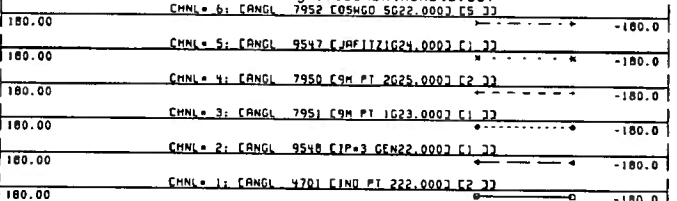
FRI, MAR 31 2000 17:22
 RUN 048 PLOT 2

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DW4RUN048.OUT
 CHNL= 24: CANGL 4700 CARV 3 22.000 C1 JJ



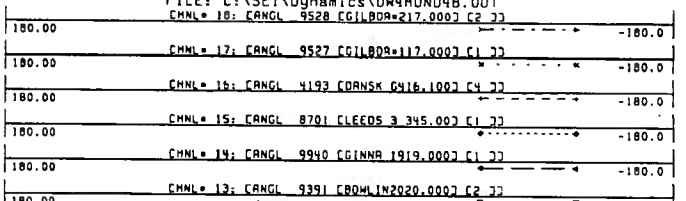
FRI, MAR 31 2000 17:22
 RUN 048 PLOT 4

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DW4RUN048.OUT
 CHNL= 6: CANGL 7952 COSHGO 6022.000 C8 JJ



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 RUN 048 PLOT 1

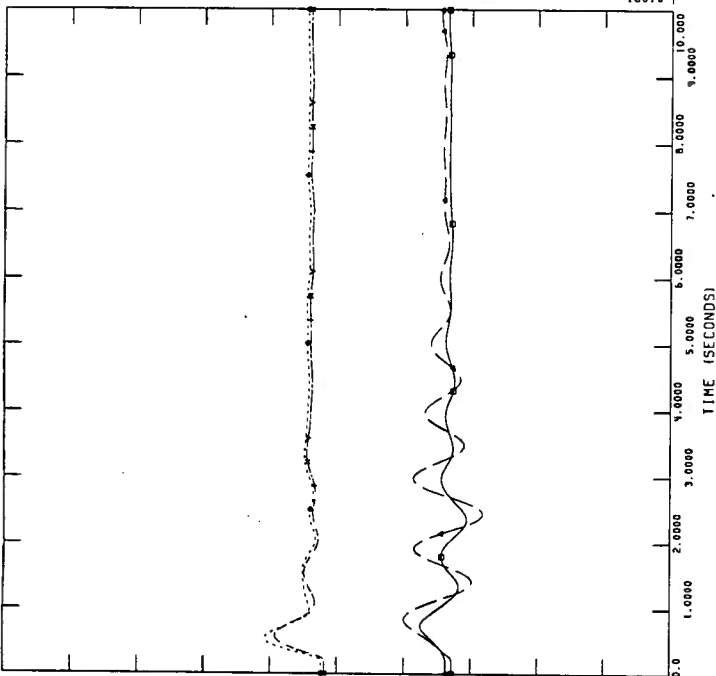
CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DW4RUN048.OUT
 CHNL= 18: CANGL 9528 CGILBDR 217.000 C2 JJ



FRI, MAR 31 2000 17:22
 RUN 048 PLOT 3

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DW4RUND48.OUT
 CHNL = 35: CANGL 4353 CSITH GT218.0007 C1 JJ

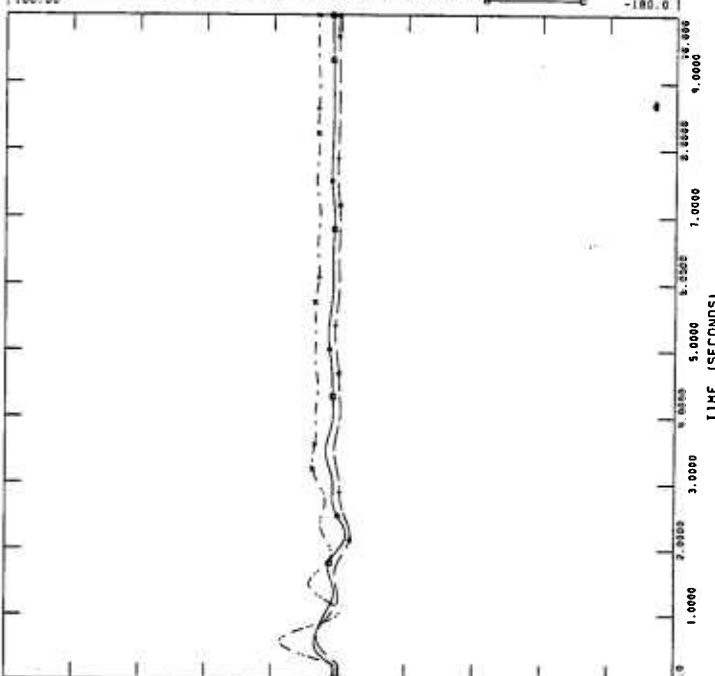
CHNL = 35: CANGL 4353 CSITH GT218.0007 C1 JJ
 CHNL = 34: CANGL 4352 CSITH GT118.0007 C1 JJ
 CHNL = 33: CANGL 4358 CSITH ST116.0007 C1 JJ
 CHNL = 32: CANGL 4706 CAST 5 20.0007 C2 JJ
 CHNL = 31: CANGL 4706 CAST 5 20.0007 C1 JJ



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 RUN 048 PLOT 6

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DW4RUND48.OUT
 CHNL = 48: CANGL 9395 C89WLNCT18.0007 C1 JJ

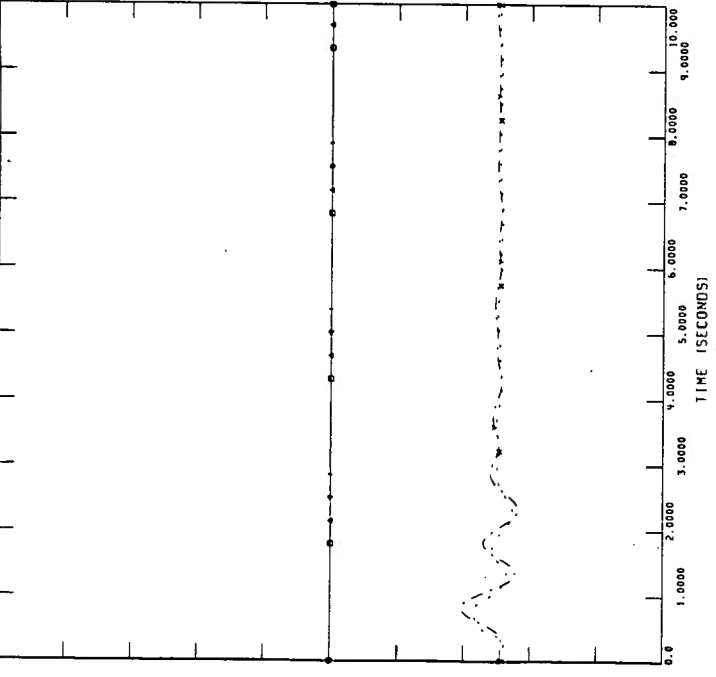
CHNL = 47: CANGL 9395 C89WLNCT18.0007 C1 JJ
 CHNL = 46: CANGL 8711 CATHENSST18.0007 C1 JJ
 CHNL = 45: CANGL 8716 CATHENSST18.0007 C1 JJ
 CHNL = 44: CANGL 8709 CATHENSST18.0007 C1 JJ
 CHNL = 43: CANGL 8708 CATHENSST18.0007 C1 JJ



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 RUN 048 PLOT 7

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DW4RUND48.OUT
 CHNL = 30: CANGL 4705 CAST 4 20.0007 C2 JJ

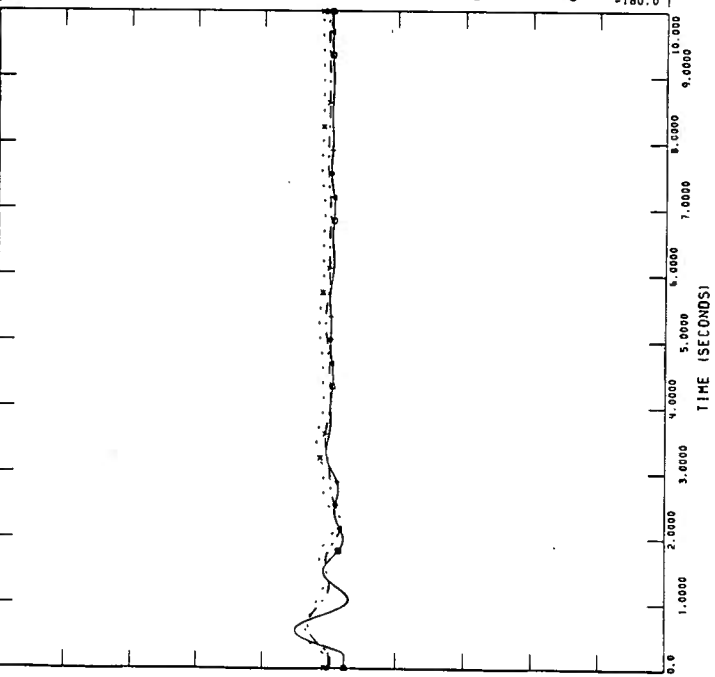
CHNL = 29: CANGL 4705 CAST 4 20.0007 C1 JJ
 CHNL = 28: CANGL 4708 CARY 2 20.0007 C2 JJ
 CHNL = 27: CANGL 4708 CARY 2 20.0007 C1 JJ
 CHNL = 26: CANGL 4707 CARY 1 20.0007 C2 JJ
 CHNL = 25: CANGL 4707 CARY 1 20.0007 C1 JJ



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 RUN 048 PLOT 8

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
 FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
 FILE: C:\SEI\Dynamic\DW4RUND48.OUT
 CHNL = 42: CANGL 8707 CATHENSST18.0007 C1 JJ

CHNL = 41: CANGL 8706 CATHENSST18.0007 C1 JJ
 CHNL = 40: CANGL 4364 CANPCT4 21.0007 C4 JJ
 CHNL = 39: CANGL 4363 CANPCT3 21.0007 C3 JJ
 CHNL = 38: CANGL 4362 CANPCT2 21.0007 C2 JJ
 CHNL = 37: CANGL 4361 CANPCT1 21.0007 C1 JJ

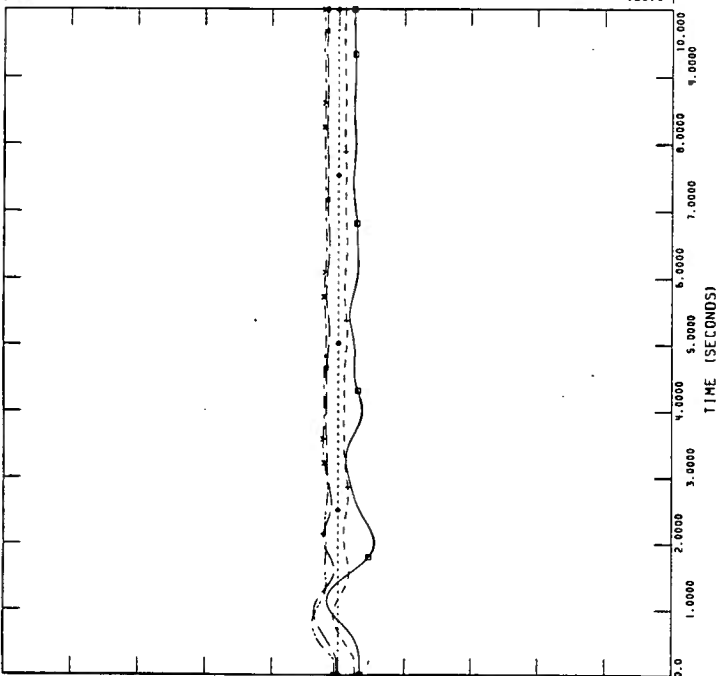


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 RUN 048 PLOT 9



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW4RUND4B.OUT
CHNL= 60: CANGL 23310 CMATN CM324.0000 C1 J2

CHNL= 59: CANGL 23310 CMATN CM324.0000 C1 J2
CHNL= 58: CANGL 23041 CLIMEACK2.0000 C1 J2
CHNL= 57: CANGL 23499 CLIMEACK2.0000 C1 J2
CHNL= 56: CANGL 23039 CHOPE CA J C1 J2
CHNL= 55: CANGL 2869 CSBAX G1 25.0000 C1 J2

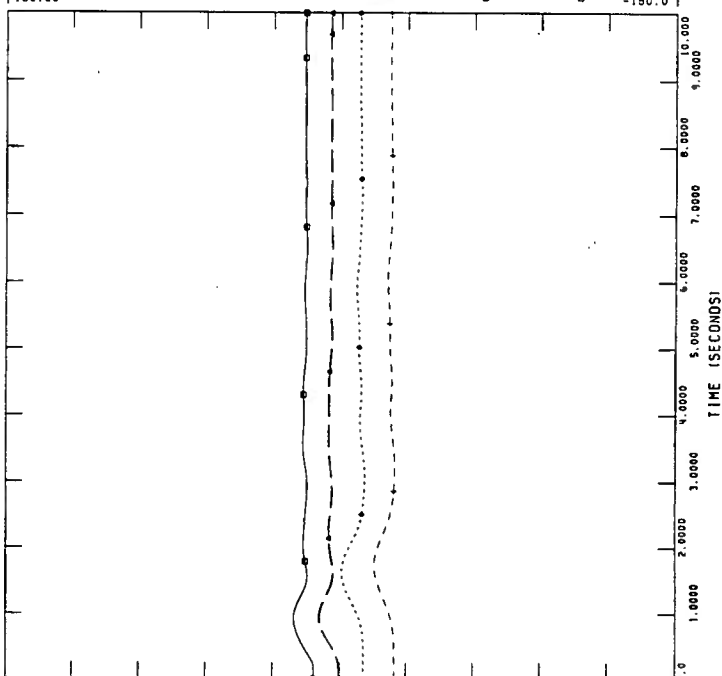


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RUN D4B PLOT 10



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW4RUND4B.OUT
CHNL= 70: CANGL 17472 CBLLONG2 19.0000 C1 J2

CHNL= 69: CANGL 17456 CLEPAG1 26.0000 C1 J2
CHNL= 68: CANGL 23194 CT M 1 01.0000 C1 J2
CHNL= 67: CANGL 23040 CSUSQUEHA J C1 J2

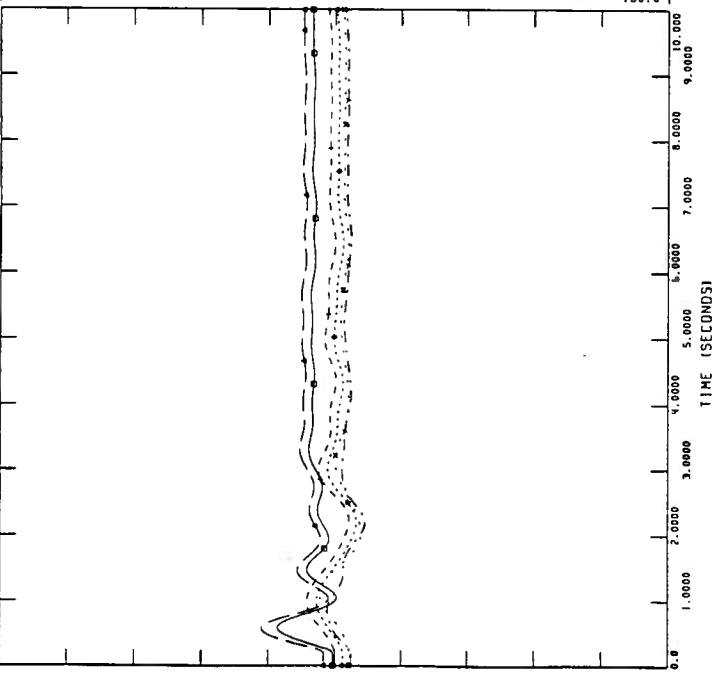


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RUN D4B PLOT 12



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW4RUND4B.OUT
CHNL= 54: CANGL 3648 CBTHBA=322.0000 C3 J2

CHNL= 53: CANGL 2371 CBP=4 6W22.0000 C1 J2
CHNL= 52: CANGL 3563 CMILL=3 24.0000 C3 J2
CHNL= 51: CANGL 3562 CMILL=2 24.0000 C2 J2
CHNL= 50: CANGL 9398 CBOWNST 18.0000 C1 J2
CHNL= 49: CANGL 9397 CBOWNST 18.0000 C1 J2

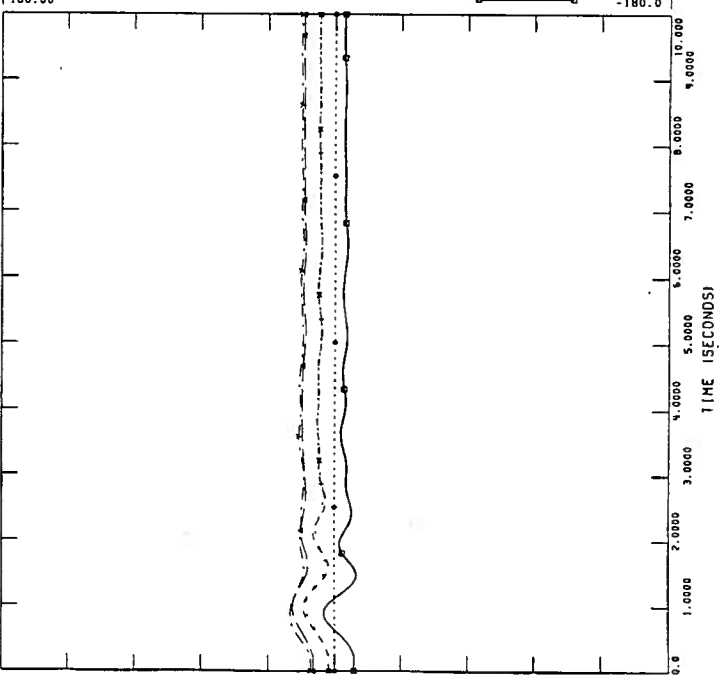


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RUN D4B PLOT 9



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4B: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW4RUND4B.OUT
CHNL= 66: CANGL 23358 CSUSA 1 24.0000 C1 J2

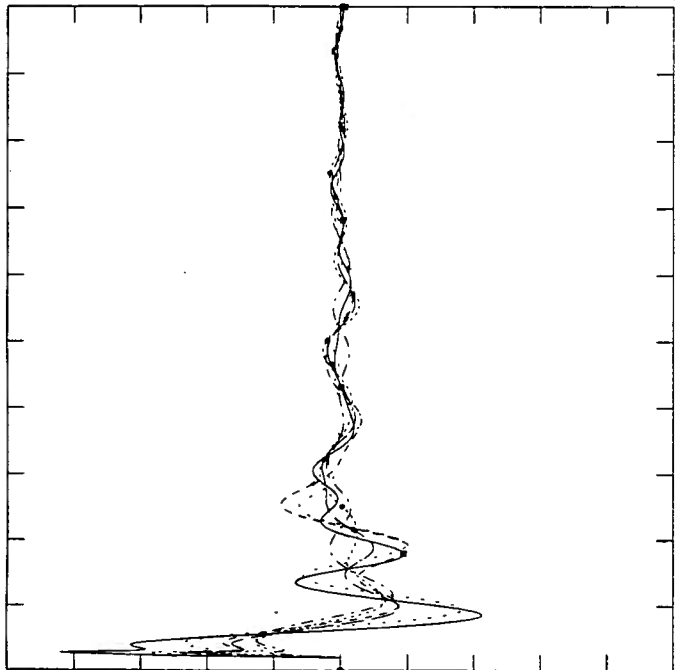
CHNL= 65: CANGL 23002 CSALFM G2 J C1 J2
CHNL= 64: CANGL 23001 CSALFM G1 J C1 J2
CHNL= 63: CANGL 23000 CPCHBTM=3 J C1 J2
CHNL= 62: CANGL 25999 CPCHBTM=2 J C1 J2
CHNL= 61: CANGL 23201 COYSTCAG1 J C1 J2



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RUN D4B PLOT 11

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW4RUN048.OUT
CHNL = 705: 60 (1-CFREQ 23003 CALBURI15500.0073)

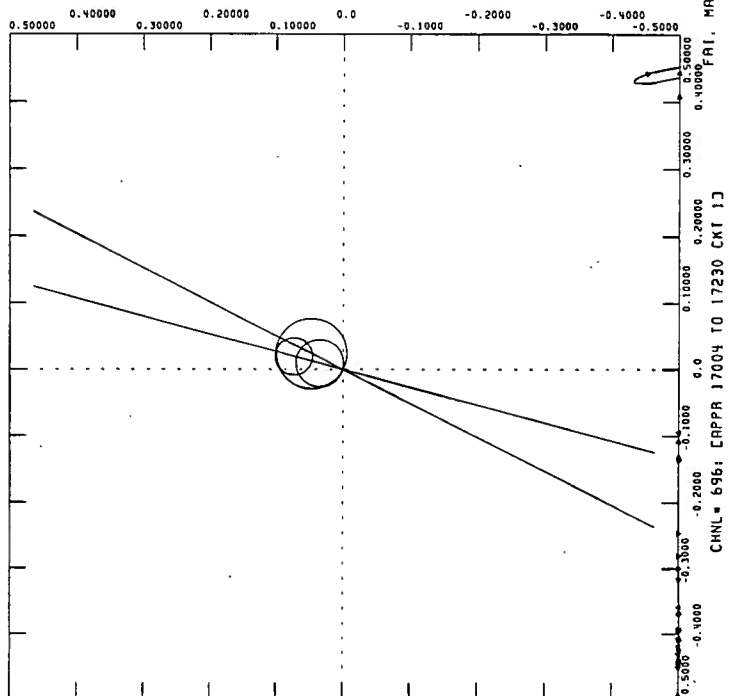
60.250 CHNL = 704: 60 (1-CFREQ 4327 CFARRAGUT345.0073) 59.750
60.250 CHNL = 703: 60 (1-CFREQ 3105 CLONG MIN345.0073) 59.750
60.250 CHNL = 702: 60 (1-CFREQ 9577 CMARCY765765.0073) 59.750
60.250 CHNL = 701: 60 (1-CFREQ 5403 CFARAS345345.0073) 59.750
60.250 CHNL = 700: 60 (1-CFREQ 4347 CARMAPD 345.0073) 59.750



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RUN 048 PLOT 14

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW4RUN048.OUT

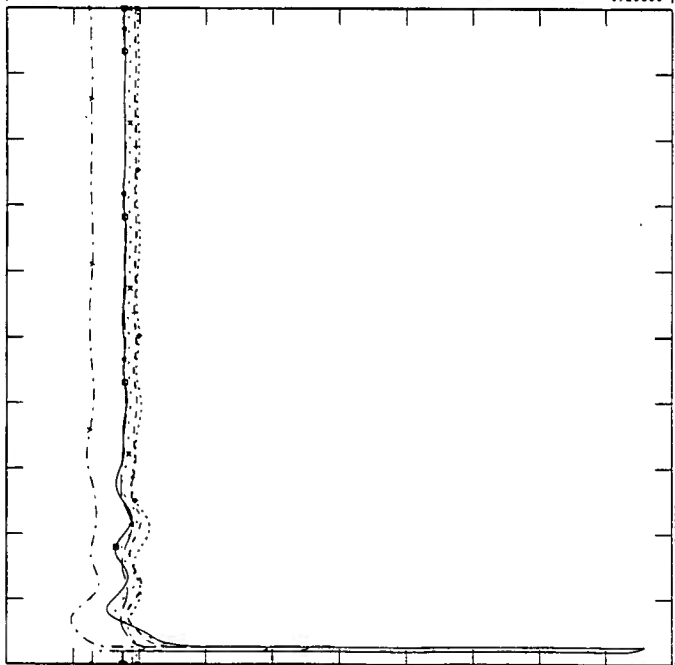
RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPX 17004 TO 17230 CKT 13



FRI, MAR 31 2000 17:22
RUN 048 PLOT 15

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW4RUN048.OUT
CHNL = 651: CVOLT 23003 CALBURI15500.0073

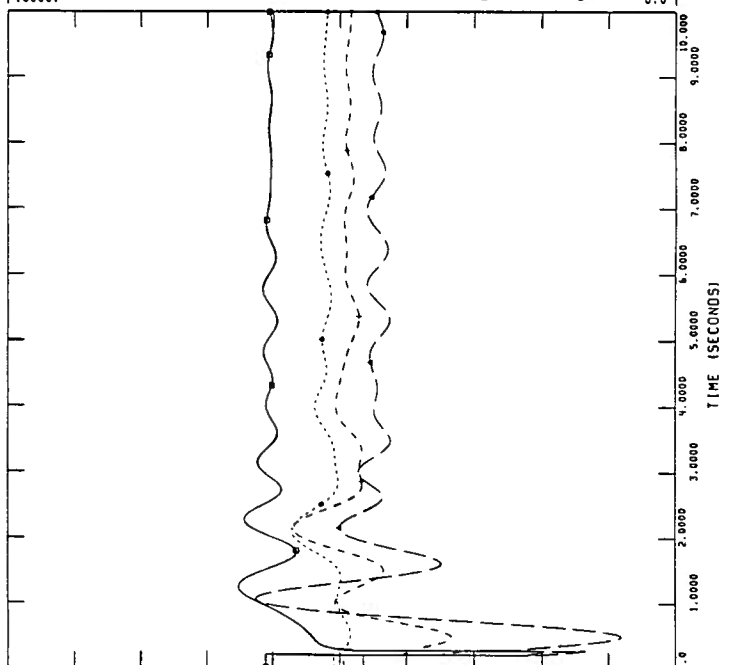
1.2000 CHNL = 508: CVOLT 4327 CFARRAGUT345.0073 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MIN345.0073 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCY765765.0073 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARAS345345.0073 0.20000
1.2000 CHNL = 528: CVOLT 4347 CARMAPD 345.0073 0.20000



FRI, MAR 31 2000 17:22
RUN 048 PLOT 16

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN 048: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT LADENTOWN, TRIP LADENTOWN TO BUCHANAN
FILE: C:\SEI\Dynamic\DW4RUN048.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENE 1000.0
CHNL = 687: CMW UPNY TO CONE 0.0



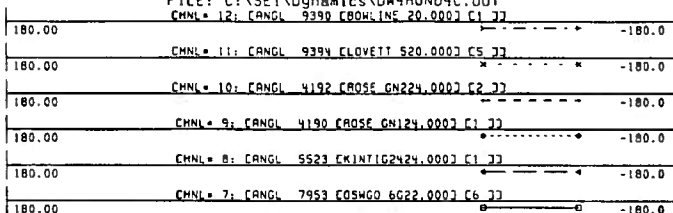
FRI, MAR 31 2000 17:22
RUN 048 PLOT 17

CONTINGENCY D4C

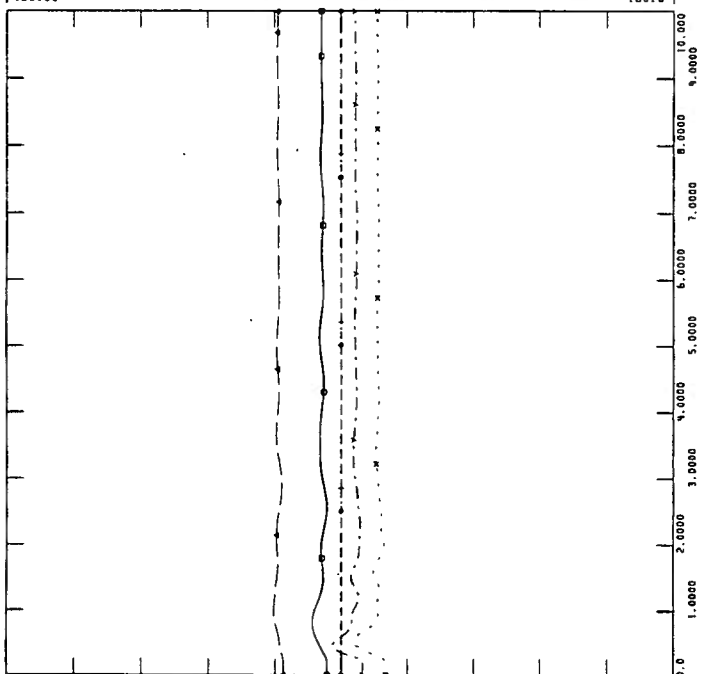
RECOVER FROM D1.SNP AND DW4.CNV
START OUTPUT DW4RUND4C.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4312 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN N
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4312 TO BUS 4317 CKT 1 / TRIP BUCHANAN-EASTVIEW
TRIP BRANCH FROM BUS 4317 TO BUS 4428 CKT 1 / TRIP EASTVIEW XFMR
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\dynamics\DW4RUND4C.OUT
CHNL = 12: CAGL 9390 CROHLIN 20.000 [1 3]

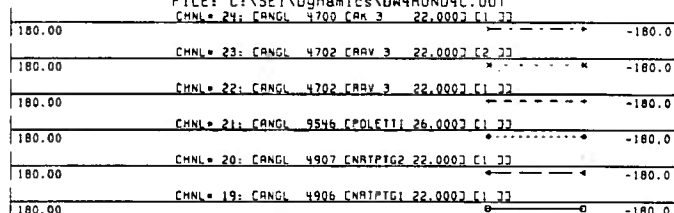


FRI, MAR 31 2000 17:22
RUN D4C PLOT 2

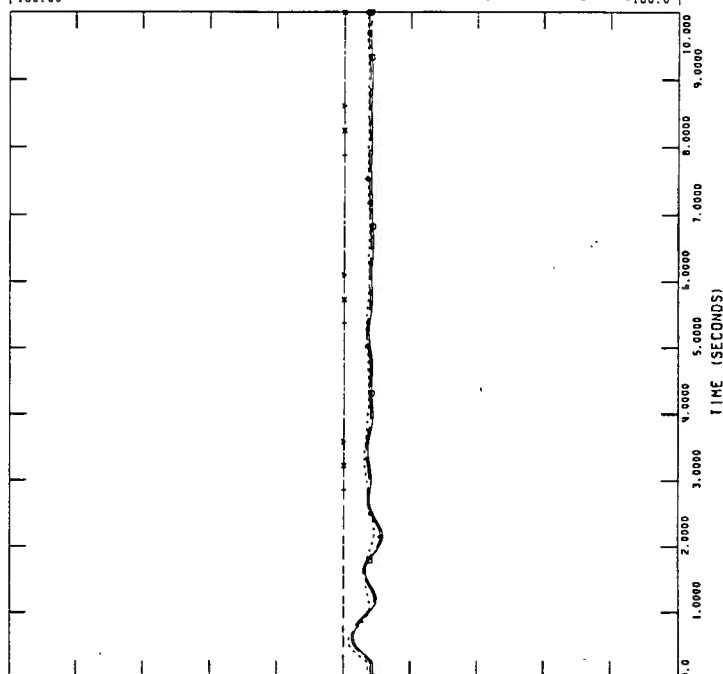


CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\dynamics\DW4RUND4C.OUT
CHNL = 24: CAGL 4700 CAR 3 22.000 [1 3]

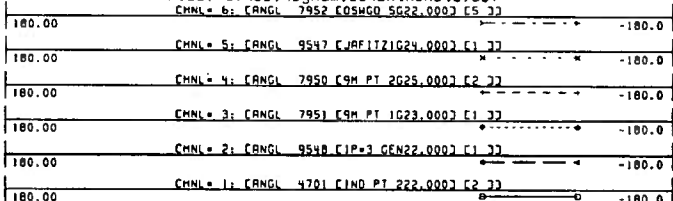


FRI, MAR 31 2000 17:22
RUN D4C PLOT 4

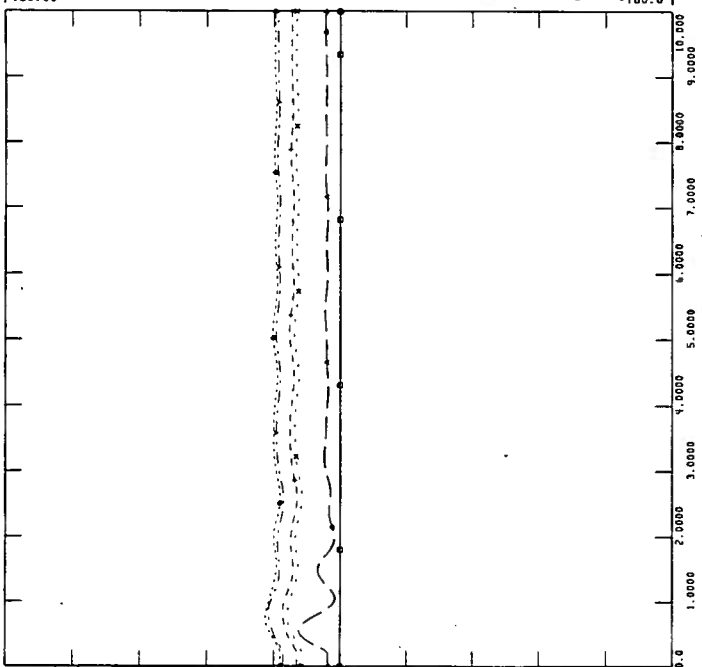


CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\dynamics\DW4RUND4C.OUT
CHNL = 6: CAGL 7952 COSHGO 5022.000 [5 3]

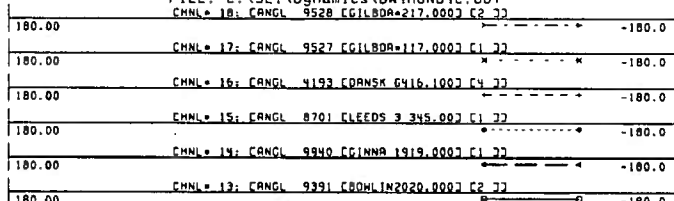


FRI, MAR 31 2000 17:22
RUN D4C PLOT 1

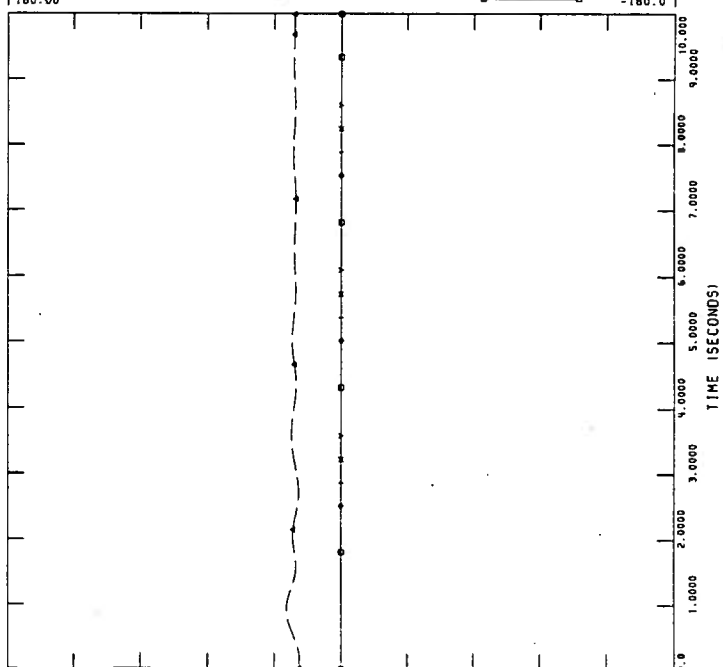


CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\dynamics\DW4RUND4C.OUT
CHNL = 18: CAGL 9528 CGLBDA217.000 [2 3]

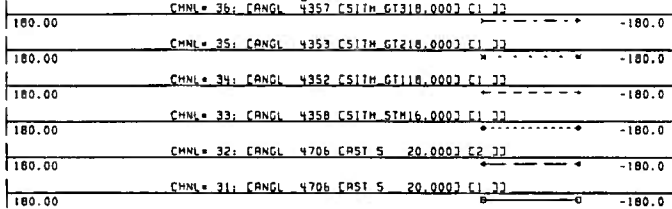


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RUN D4C PLOT 3



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

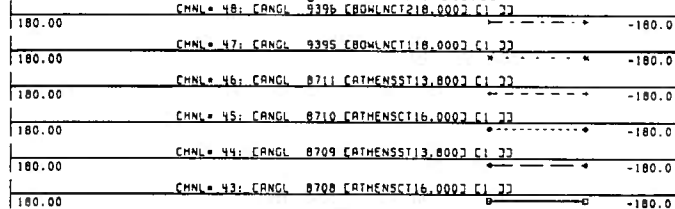
FILE: C:\SEI\dynamics\DW4RUND4C.OUT
CHNL= 35: CANGI 4353 CSITH GT18.0007 C1 JJ



FRI, MAR 31 2000 17:22
RUN D4C PLOT 6

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

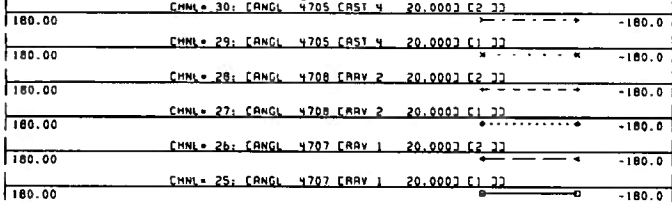
FILE: C:\SEI\dynamics\DW4RUND4C.OUT
CHNL= 48: CANGI 9395 C80MLNCT18.0007 C1 JJ



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RUN D4C PLOT 8

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

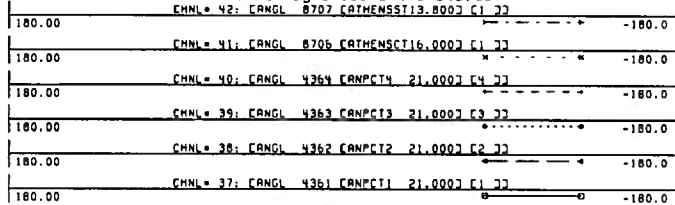
FILE: C:\SEI\dynamics\DW4RUND4C.OUT
CHNL= 30: CANGI 4705 CAST 4 20.0007 C2 JJ



FRI, MAR 31 2000 17:22
RUN D4C PLOT 5

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

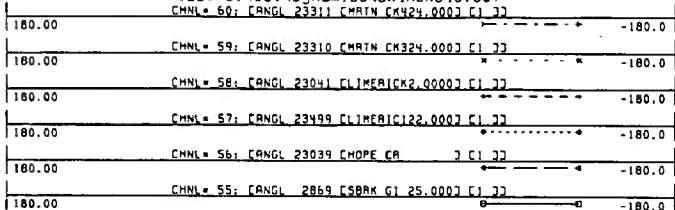
FILE: C:\SEI\dynamics\DW4RUND4C.OUT
CHNL= 42: CANGI 8707 CATHENSST13.0007 C1 JJ



FRI, MAR 31 2000 17:22
RUN D4C PLOT 7



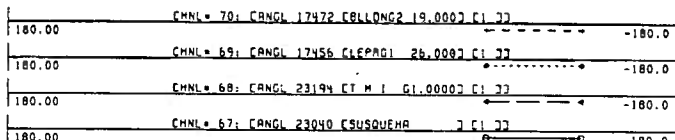
CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\dynamics\DW4RUND4C.OUT
CHNL= 60: CANGI 23311 [CHATT CK424.000] C1 JJ



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RUN D4C PLOT 10



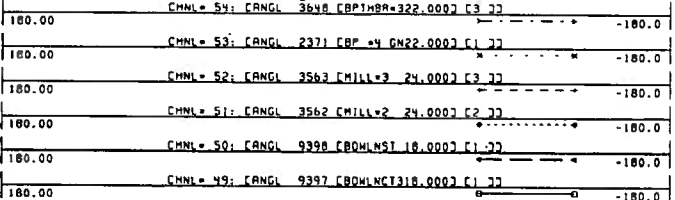
CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\dynamics\DW4RUND4C.OUT



FRI, MAR 31 2000 17:22
RUN D4C PLOT 11



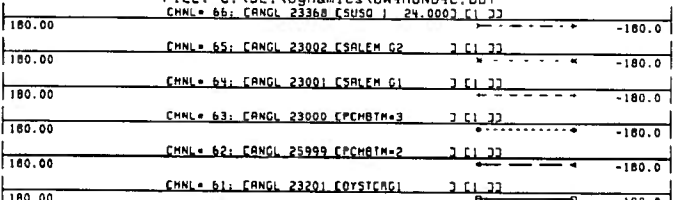
CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\dynamics\DW4RUND4C.OUT
CHNL= 54: CANGI 3648 [BPTWHA-322.000] C3 JJ



FRI, MAR 31 2000 17:22
RUN D4C PLOT 9



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW
FILE: C:\SEI\dynamics\DW4RUND4C.OUT
CHNL= 66: CANGI 23368 [SUSO 1 24.000] C1 JJ

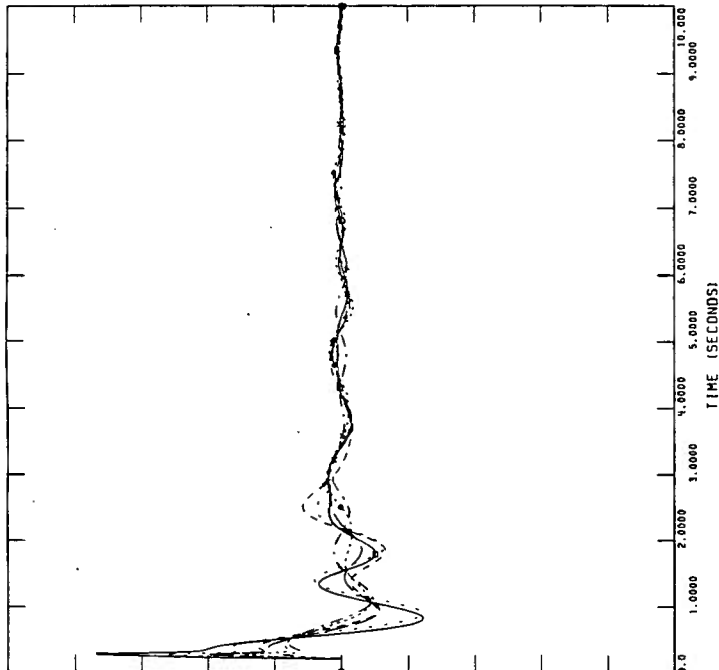


FRI, MAR 31 2000 17:22
RUN D4C PLOT 12

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DW4RUND4C.OUT
CHNL = 705: 60*(1-CFREQ 23003 CALBURT15500.0077)

60.250 CHNL = 704: 60*(1-CFREQ 4327 CFARAGUT345.0077) 59.750
60.250 CHNL = 703: 60*(1-CFREQ 3105 CLONG MTN345.0077) 59.750
60.250 CHNL = 702: 60*(1-CFREQ 9577 CHACT765765.0077) 59.750
60.250 CHNL = 701: 60*(1-CFREQ 5403 CFARASR345345.0077) 59.750
60.250 CHNL = 700: 60*(1-CFREQ 4347 CARMAPD 345.0077) 59.750



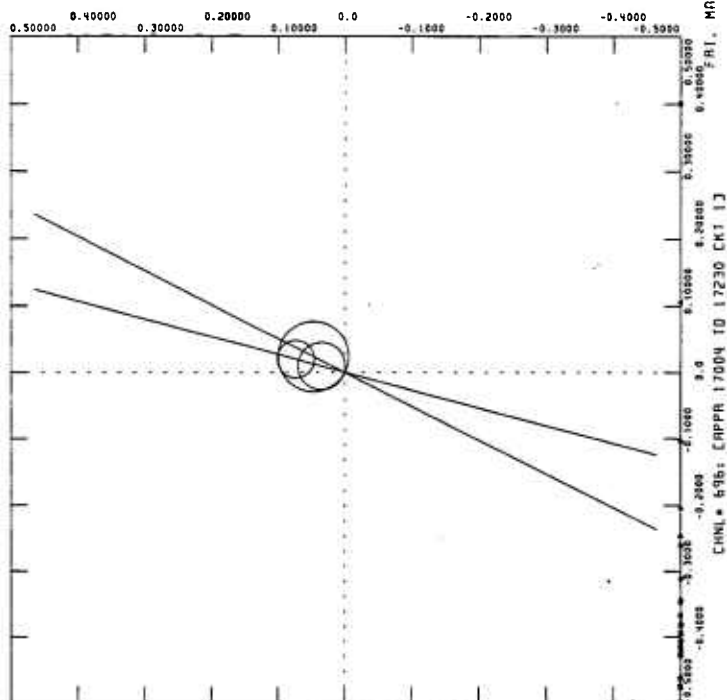
FRI, MAR 31 2000 17:22
RUN D4C PLOT 14

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DW4RUND4C.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

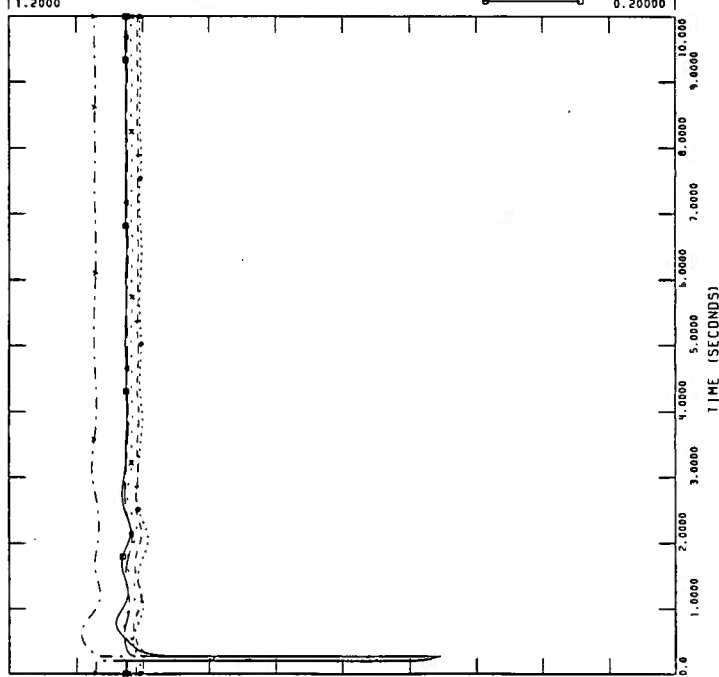


FRI, MAR 31 2000 17:22
RUN D4C PLOT 15

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DW4RUND4C.OUT
CHNL = 651: CYOLT 23003 CALBURT15500.0077

1.2000 CHNL = 508: CYOLT 4327 CFARAGUT345.0077 0.20000
1.2000 CHNL = 636: CYOLT 3105 CLONG MTN345.0077 0.20000
1.2000 CHNL = 572: CYOLT 9577 CHACT765765.0077 0.20000
1.2000 CHNL = 545: CYOLT 5403 CFARASR345345.0077 0.20000
1.2000 CHNL = 528: CYOLT 4347 CARMAPD 345.0077 0.20000

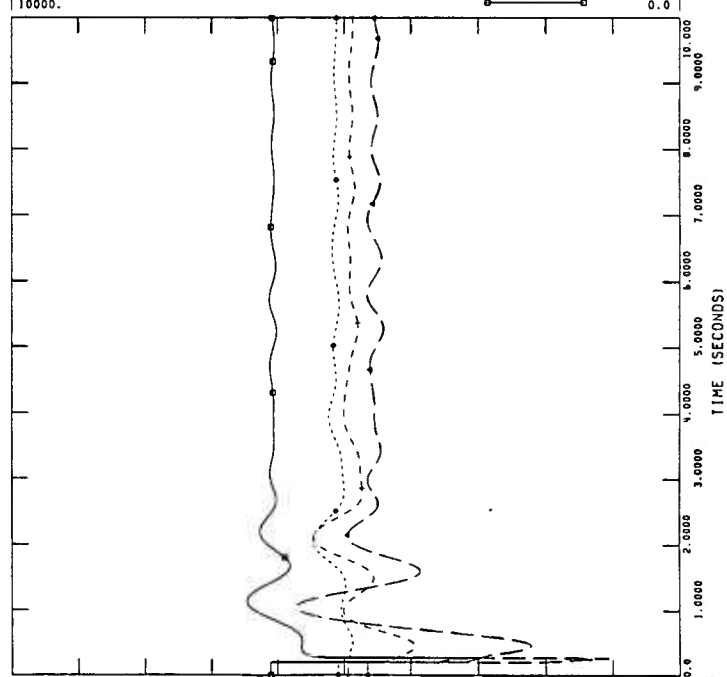


FRI, MAR 31 2000 17:22
RUN D4C PLOT 13

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN D4C: LOSS OF SINGLE CIRCUIT FOR THREE PHASE FAULT
FAULT AT BUCHANAN N, TRIP BUCHANAN N TO EASTVIEW

FILE: C:\SEI\Dynamic\DW4RUND4C.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SENY 1000.0
CHNL = 687: CMW UPNY TO CONED 0.0

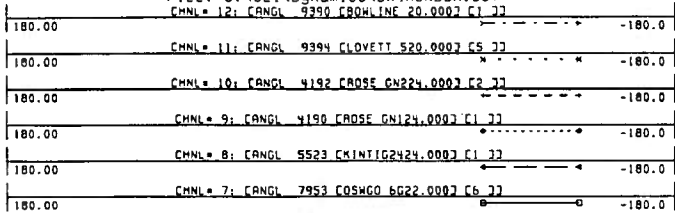


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RUN D4C PLOT 16

CONTINGENCY D5A

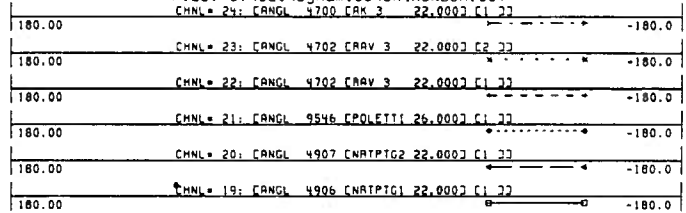
RECOVER FROM D1.SNP AND DW4.CNV
START OUTPUT DW4RUND5A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4313 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT BUCHANAN S
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 1 / TRIP BUCHANAN S-MILLWOOD 1
TRIP LINE FROM BUS 4313 TO BUS 4341 CKT 2 / TRIP BUCHANAN S-MILLWOOD 2
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUND5A.OUT
 CHNL= 12: CAGL 9399 CROHLIN 20.0007 C1 JJ



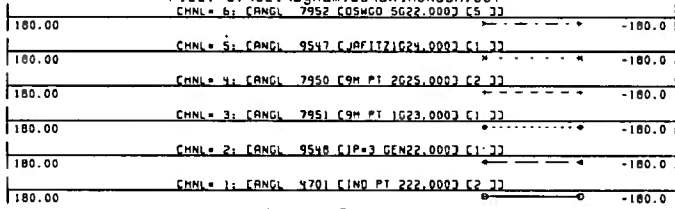
FRI, MAR 31 2000 17:22
 RUN DSA PLOT 2

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUND5A.OUT
 CHNL= 24: CAGL 4702 CAV 3 22.0007 C2 JJ



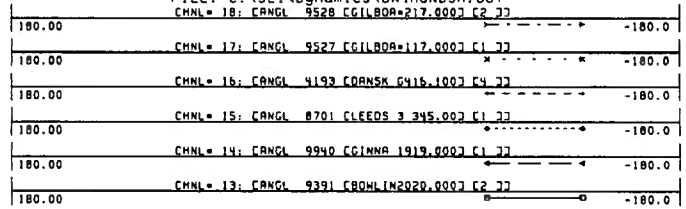
FRI, MAR 31 2000 17:22
 RUN DSA PLOT 4

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUND5A.OUT
 CHNL= 6: CAGL 7952 COSHGO 5022.0007 C5 JJ



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 RUN DSA PLOT 1

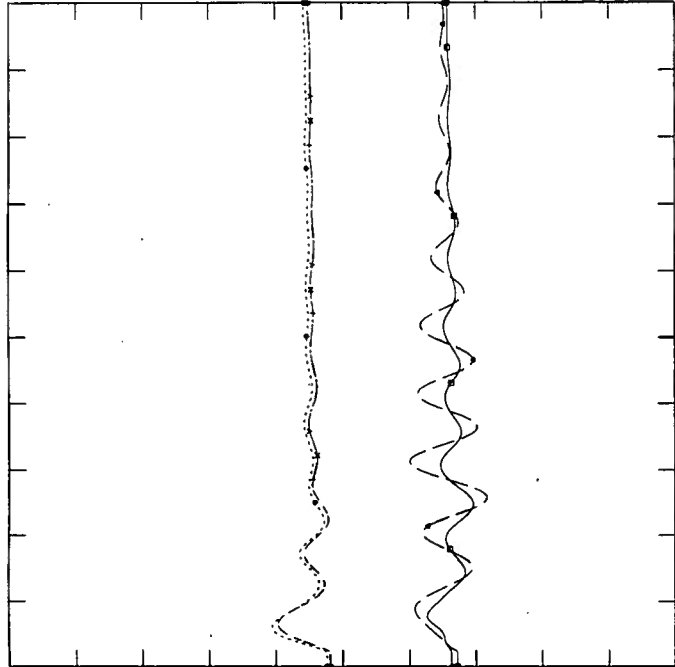
CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUND5A.OUT
 CHNL= 18: CAGL 9528 CGLLBOR=217.0007 C2 JJ



FRI, MAR 31 2000 17:22
 RUN DSA PLOT 3

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUNDSA.OUT
 CHNL = 35: CANGL 4357 CSITH GT218.0007 C1 JJ

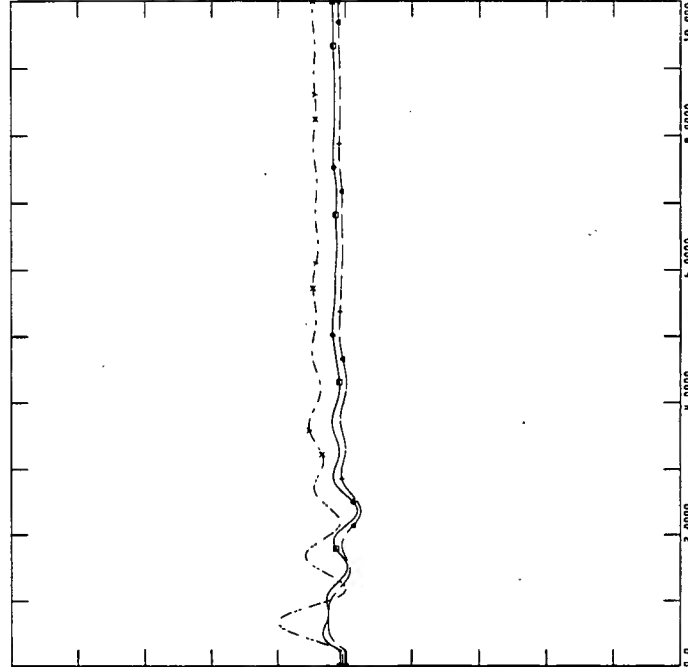
CHNL = 35: CANGL 4353 CSITH GT218.0007 C1 JJ
 CHNL = 34: CANGL 4352 CSITH GT118.0007 C1 JJ
 CHNL = 33: CANGL 4350 CSITH ST116.0007 C1 JJ
 CHNL = 32: CANGL 4706 CAST 5 20.0007 C2 JJ
 CHNL = 31: CANGL 4706 CAST 5 20.0007 C1 JJ



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 RUN DSA PLOT 6

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUNDSA.OUT
 CHNL = 48: CANGL 9396 CBOWLNC118.0007 C1 JJ

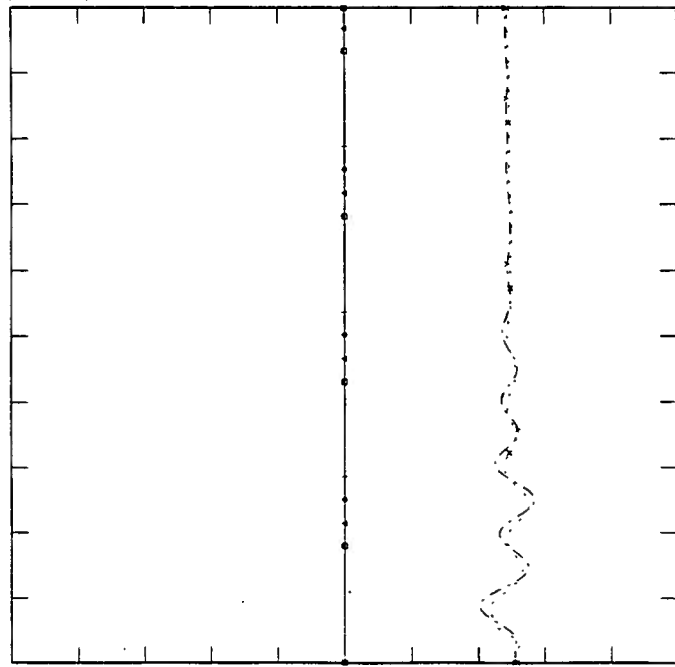
CHNL = 47: CANGL 9395 CBOWLNC118.0007 C1 JJ
 CHNL = 46: CANGL 8711 CATHENSST13.0007 C1 JJ
 CHNL = 45: CANGL 8710 CATHENSCT16.0007 C1 JJ
 CHNL = 44: CANGL 8709 CATHENSST13.0007 C1 JJ
 CHNL = 43: CANGL 8708 CATHENSCT16.0007 C1 JJ



FRI, MAR 31 2000 17:22
 RUN DSA PLOT 8

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUNDSA.OUT
 CHNL = 30: CANGL 4705 CAST 4 20.0007 C2 JJ

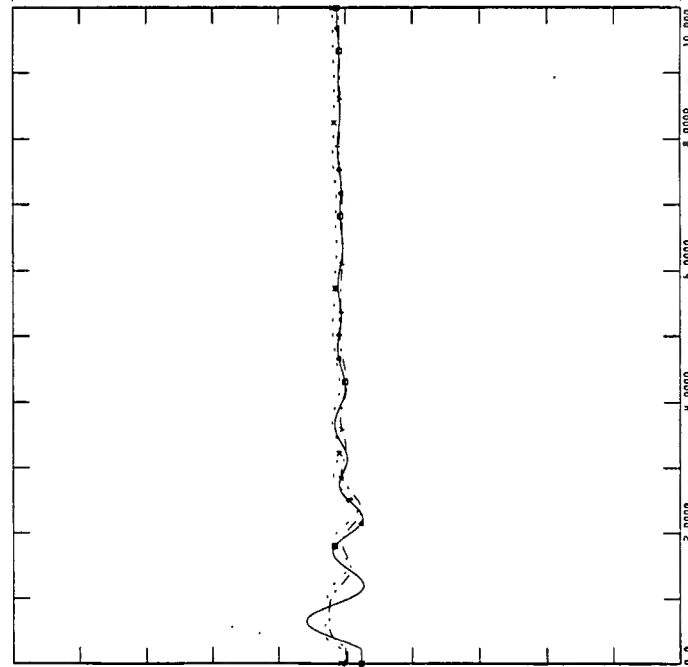
CHNL = 29: CANGL 4705 CAST 4 20.0007 C1 JJ
 CHNL = 28: CANGL 4708 CARV 2 20.0007 C2 JJ
 CHNL = 27: CANGL 4708 CARV 2 20.0007 C1 JJ
 CHNL = 26: CANGL 4707 CARV 1 20.0007 C2 JJ
 CHNL = 25: CANGL 4707 CARV 1 20.0007 C1 JJ



FRI, MAR 31 2000 17:22
 RUN DSA PLOT 5

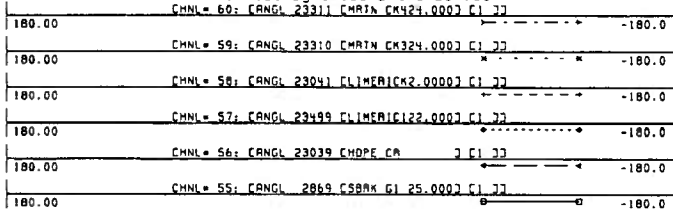
CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUNDSA.OUT
 CHNL = 42: CANGL 8707 CATHENSST13.0007 C1 JJ

CHNL = 41: CANGL 8706 CATHENSCT16.0007 C1 JJ
 CHNL = 40: CANGL 4369 CANPCT4 21.0007 C4 JJ
 CHNL = 39: CANGL 4363 CANPCT3 21.0007 C3 JJ
 CHNL = 38: CANGL 4362 CANPCT2 21.0007 C2 JJ
 CHNL = 37: CANGL 4361 CANPCT1 21.0007 C1 JJ



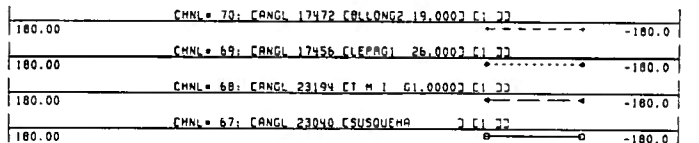
FRI, MAR 31 2000 17:22
 RUN DSA PLOT 7

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUNDSA.OUT
 CHNL = 60: CANG1 23311 CMATN CM424.0003 C1 JJ



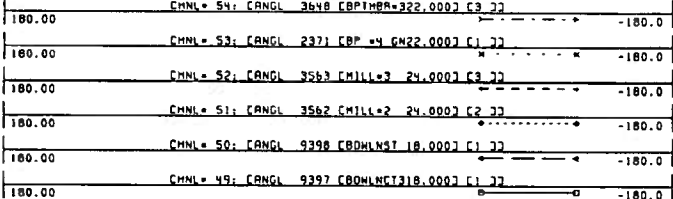
FRI, MAR 31 2000 17:22
 RUN DSA PLOT 10

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUNDSA.OUT



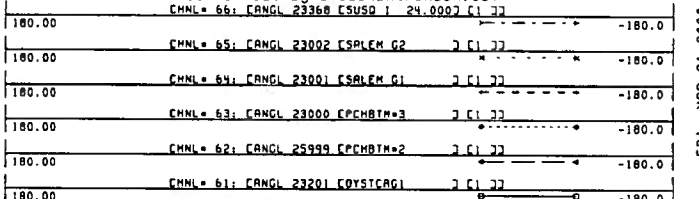
FRI, MAR 31 2000 17:22
 RUN DSA PLOT 12

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUNDSA.OUT
 CHNL = 54: CANG1 3648 CAPITHAN 322.0003 C3 JJ



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 RUN DSA PLOT 9

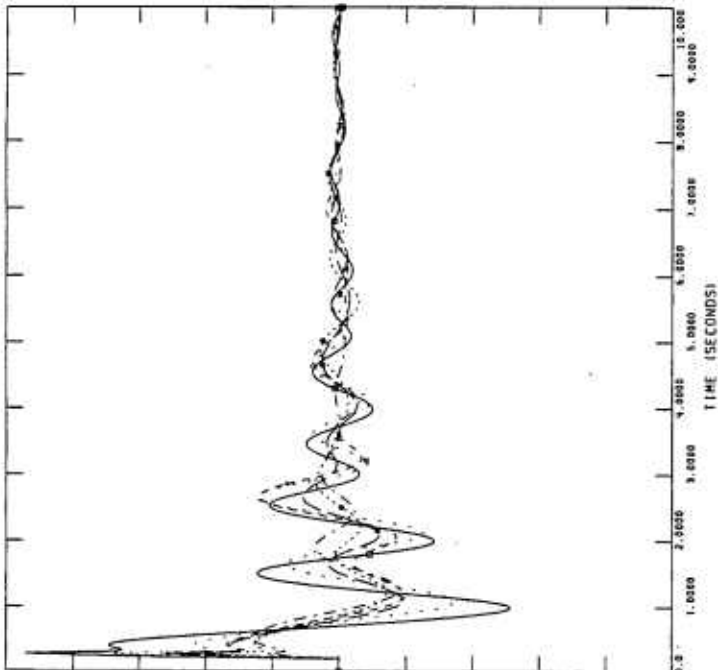
CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN DSA: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\dynamics\DW4RUNDSA.OUT
 CHNL = 66: CANG1 23368 CSUSQ 24.0003 C1 JJ



FRI, MAR 31 2000 17:22
 RUN DSA PLOT 11

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DW4RUNDSA.OUT
 CHNL = 705: 60-11-CFREG 23027 CALBUNT15500.0077

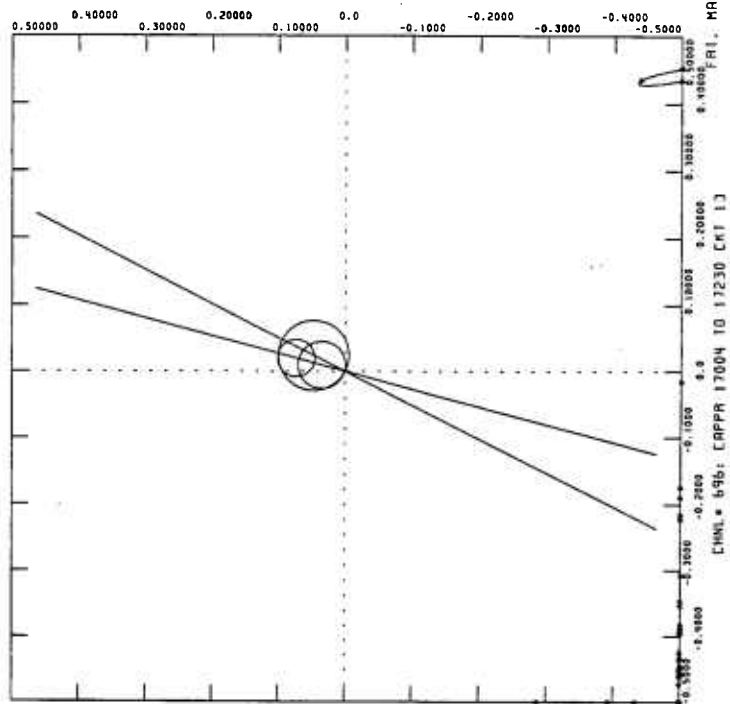
CHNL = 704: 60-11-CFREG 4327 CFARAGUT345.0077
 CHNL = 703: 60-11-CFREG 3105 CLONG MIN345.0077
 CHNL = 702: 60-11-CFREG 9577 CMARCT765765.0077
 CHNL = 701: 60-11-CFREG 5403 CFARAS345345.0077
 CHNL = 700: 60-11-CFREG 4347 CFARAPD 345.0077



FRI, MAR 31 2000 17:22
 RUN D5A PLOT 14

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DW4RUNDSA.OUT

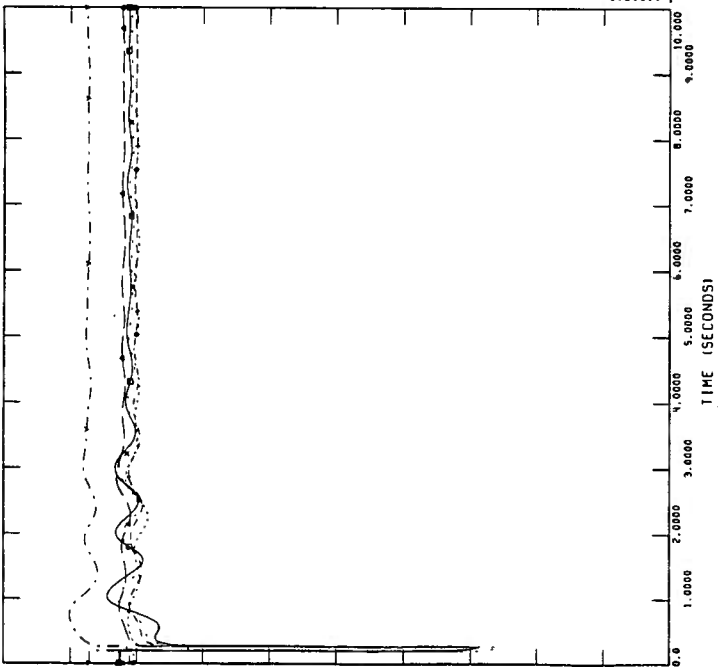
RELAY: DISTA
 TSTART: 0.0 TSTOP: 14.0 TIC INCREMENT: 0.25
 CHNL = 697: CAPPR 17004 TO 17230 CKT 13



FRI, MAR 31 2000 17:22
 RUN D5A PLOT 15

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DW4RUNDSA.OUT
 CHNL = 651: CYOLT 23003 CALBUNT15500.0077

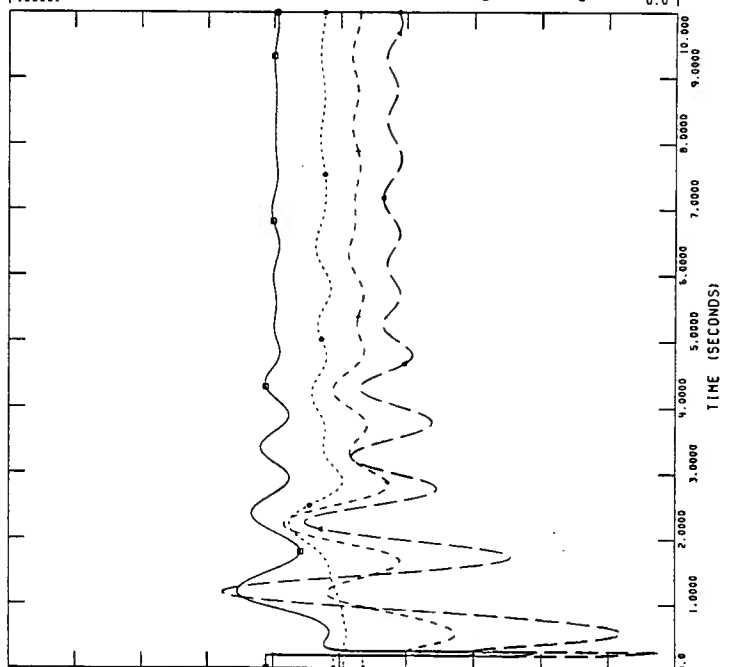
CHNL = 508: CYOLT 4327 CFARAGUT345.0077
 CHNL = 636: CYOLT 3105 CLONG MIN345.0077
 CHNL = 572: CYOLT 9577 CMARCT765765.0077
 CHNL = 545: CYOLT 5403 CFARAS345345.0077
 CHNL = 528: CYOLT 4347 CFARAPD 345.0077



FRI, MAR 31 2000 17:22
 RUN D5A PLOT 13

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN D5A: LOSS OF TOWER FOR PHASE TO GROUND FAULT
 FAULT AT BUCHANAN, TRIP BUCHANAN TO MILLWOOD 1 AND 2
 FILE: C:\SEI\Dynamic\DW4RUNDSA.OUT

CHNL = 690: CMW TOTAL EAST
 CHNL = 689: CMW CENTRAL EAST
 CHNL = 688: CMW UPNY TO SENT
 CHNL = 687: CMW UPNY TO CONED

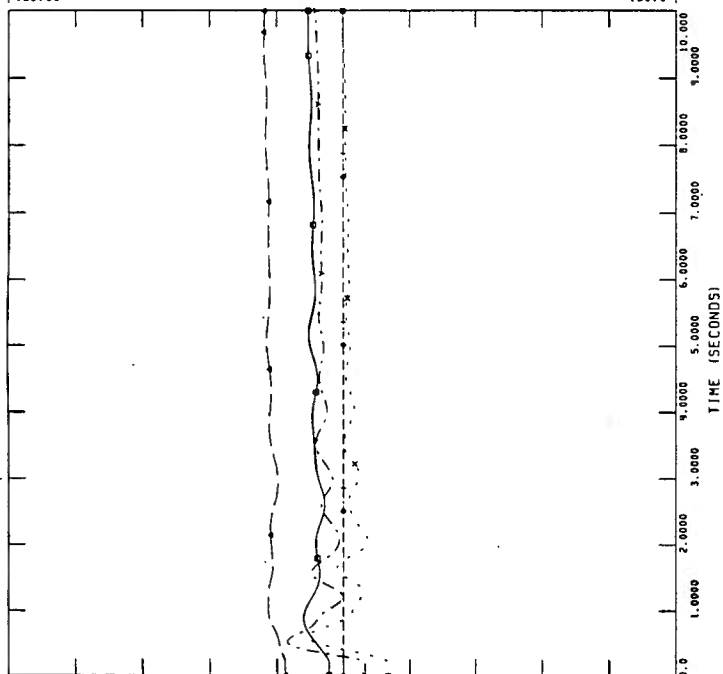
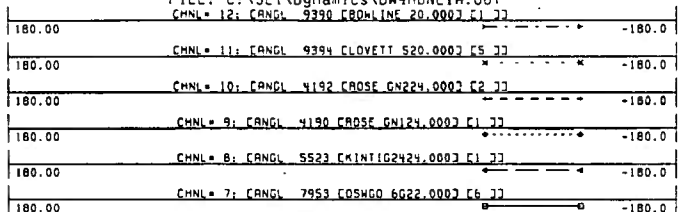


FRI, MAR 31 2000 17:22
 RUN D5A PLOT 16

CONTINGENCY E1A

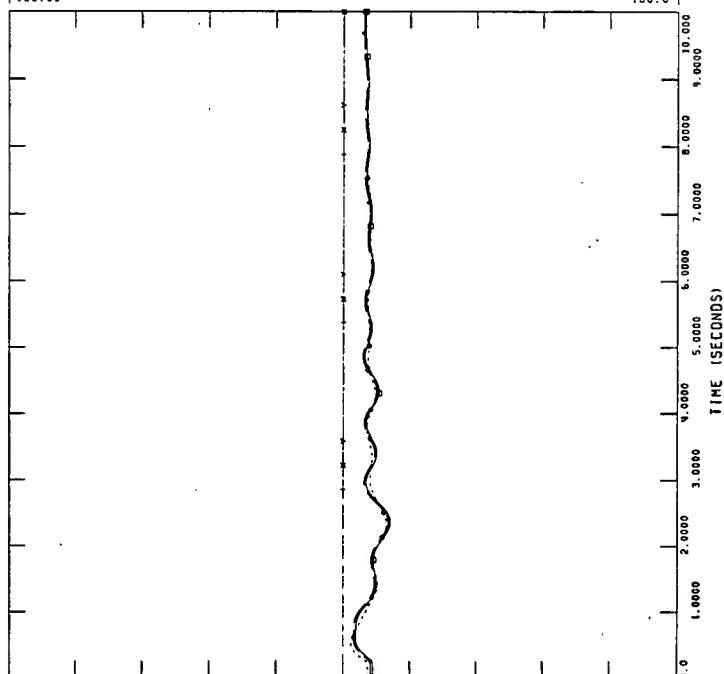
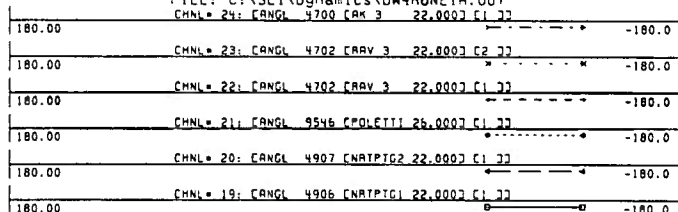
RECOVER FROM D1.SNP AND DW4.CNV
START OUTPUT DW4RUNE1A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4340 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT LADENTOWN
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4340 TO BUS 4313 CKT 1 / TRIP LADENTOWN-BUCHANAN S
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT
 CHNL = 12: CANGI 9390 CROHLIN 20.0003 C1 JJ



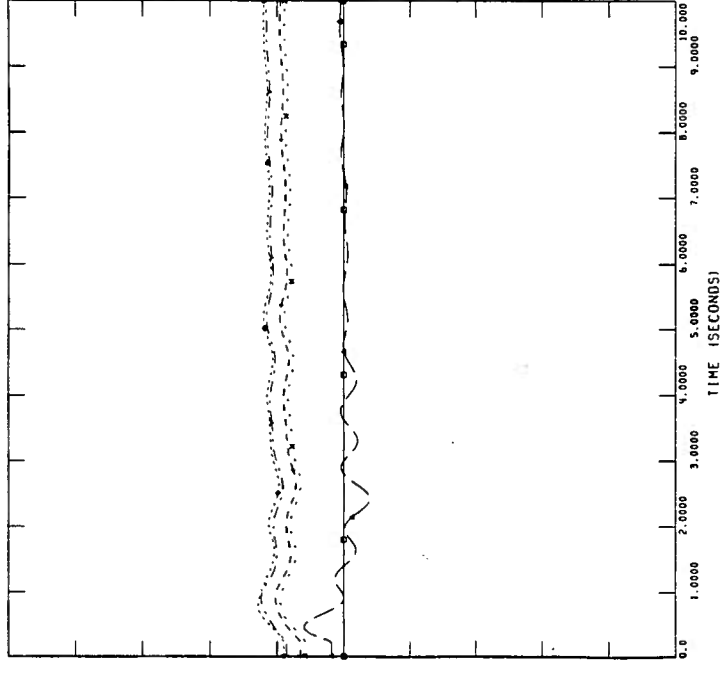
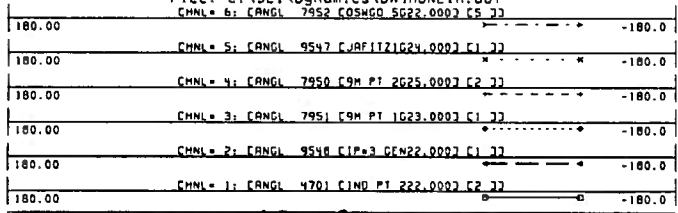
FRI, MAR 31 2000 17:25
 RUN E1A PLOT 2

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT
 CHNL = 24: CANGI 4700 CARV 3 22.0003 C1 JJ



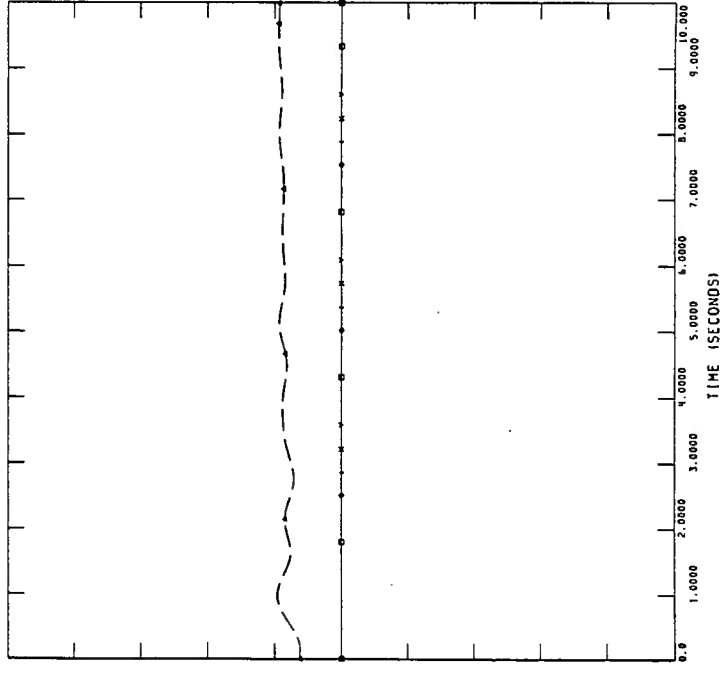
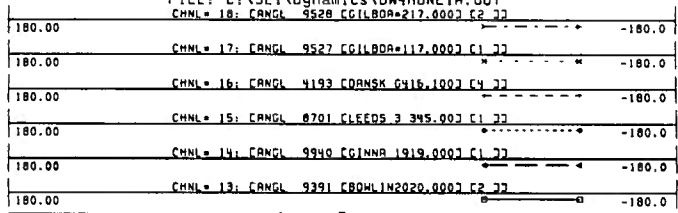
FRI, MAR 31 2000 17:25
 RUN E1A PLOT 4

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT
 CHNL = 6: CANGI 7952 COSHGO 5022.0003 C5 JJ



FRI, MAR 31 2000 17:25
 RUN E1A PLOT 1

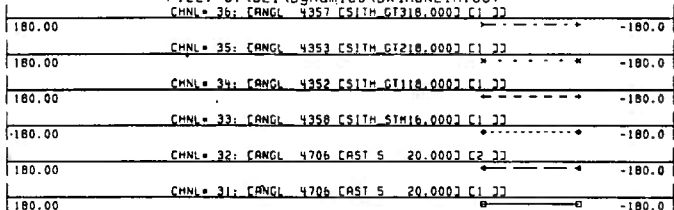
CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT
 CHNL = 18: CANGI 9528 CGLBDA#217.0003 C2 JJ



FRI, MAR 31 2000 17:25
 RUN E1A PLOT 3



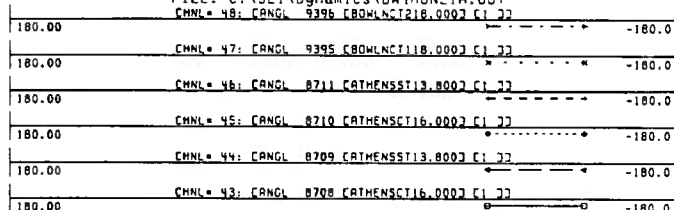
CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT
CHNL=36: CANGL 4357 CSITH GT318.0003 C1 JJ



FRI, MAR 31 2000 17:25
RUN E1A PLOT 6



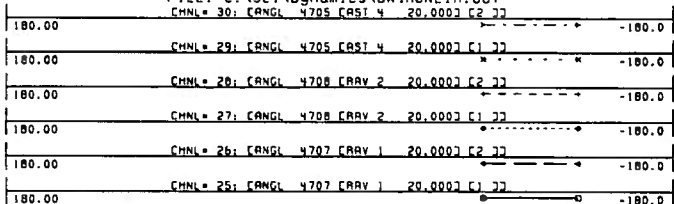
CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT
CHNL=48: CANGL 9395 CBOWLNCT18.0003 C1 JJ



FRI, MAR 31 2000 17:25
RUN E1A PLOT 7



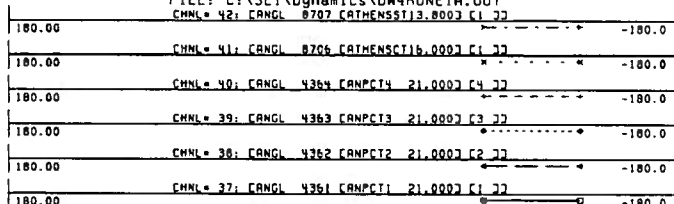
CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT
CHNL=30: CANGL 4705 CAST 4 20.0003 C2 JJ



FRI, MAR 31 2000 17:25
RUN E1A PLOT 8



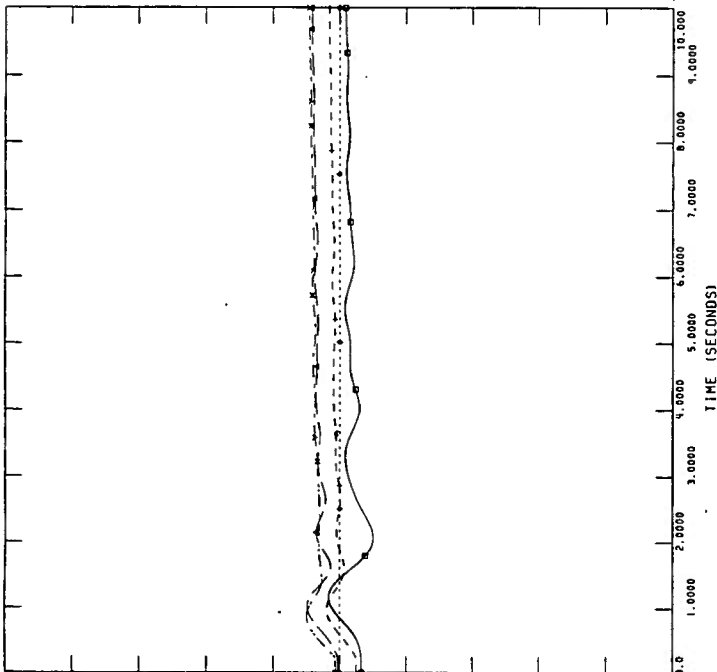
CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT
CHNL=42: CANGL 8707 CATHENSCT13.0003 C1 JJ



FRI, MAR 31 2000 17:25
RUN E1A PLOT 9

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\dynamics\DW4RUNE1A.OUT
 CHNL= 50: CANGI 23311 CMATN CM424.0002 C1 JJ

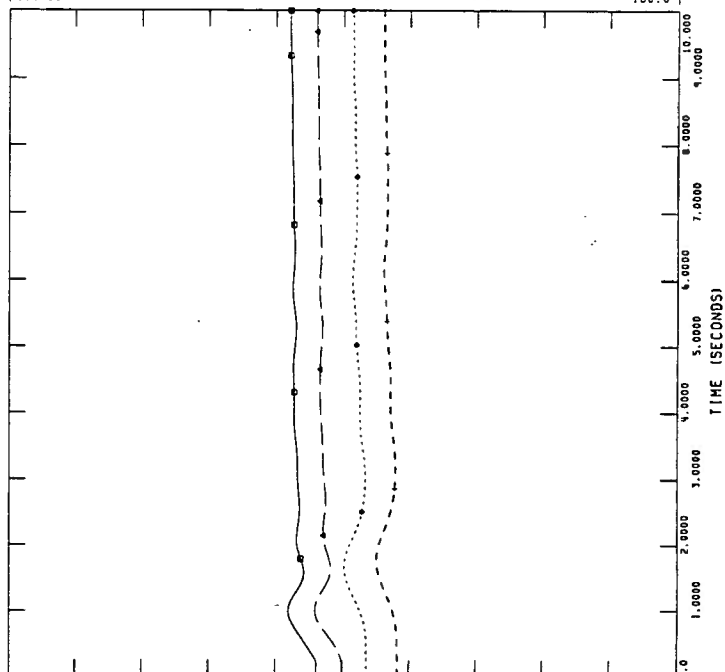
CHNL= 59: CANGI 23310 CMATN CM324.0002 C1 JJ
 CHNL= 58: CANGI 23041 CLIMERIC2.00002 C1 JJ
 CHNL= 57: CANGI 23199 CLIMERIC122.0002 C1 JJ
 CHNL= 56: CANGI 23039 CMOPE CR J C1 JJ
 CHNL= 55: CANGI 2869 CS9AK G1 25.0002 C1 JJ



FRI, MAR 31 2000 17:25
 RUN E1A PLOT 10

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\dynamics\DW4RUNE1A.OUT
 CHNL= 70: CANGI 17472 CBLLONG2 19.0002 C1 JJ

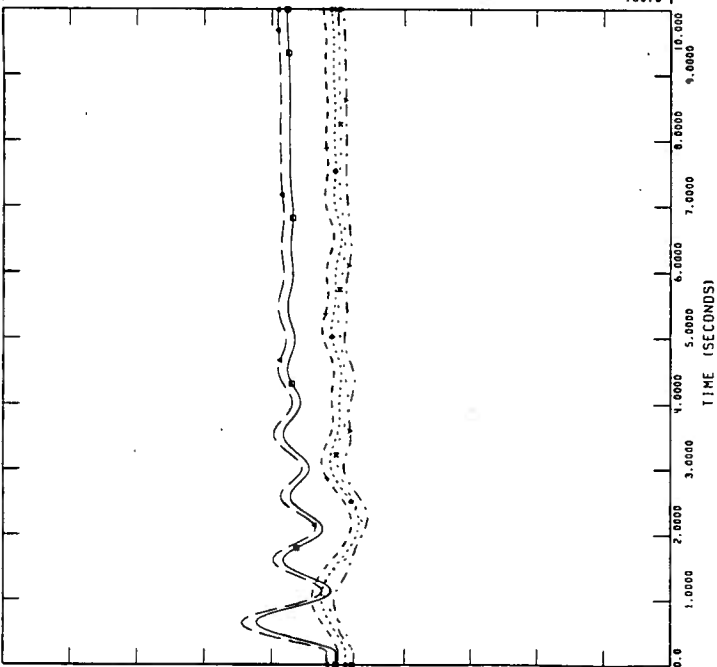
CHNL= 69: CANGI 17456 CLEPAG 26.0002 C1 JJ
 CHNL= 68: CANGI 23194 CT M I G1.00002 C1 JJ
 CHNL= 67: CANGI 23040 CSUSQUEHA J C1 JJ



FRI, MAR 31 2000 17:25
 RUN E1A PLOT 12

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\dynamics\DW4RUNE1A.OUT
 CHNL= 54: CANGI 3648 CBTHBA-322.0002 C3 JJ

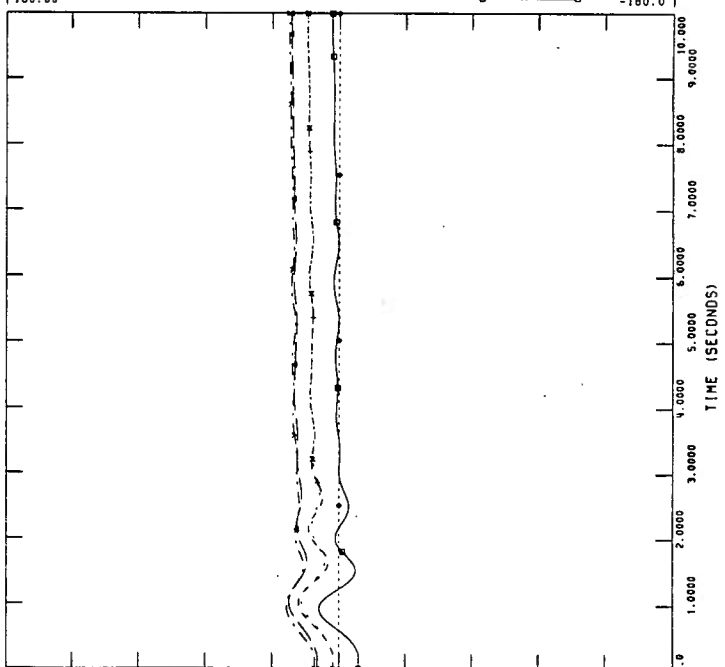
CHNL= 53: CANGI 2371 CBP 4 GN22.0002 C1 JJ
 CHNL= 52: CANGI 3563 CMILL-3 24.0002 C3 JJ
 CHNL= 51: CANGI 3562 CMILL-2 24.0002 C2 JJ
 CHNL= 50: CANGI 9398 CBOWLMST 18.0002 C1 JJ
 CHNL= 49: CANGI 9397 CBOWLMCT1318.0002 C1 JJ



FRI, MAR 31 2000 17:25
 RUN E1A PLOT 9

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
 RUN E1A: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAHAPO
 FILE: C:\SEI\dynamics\DW4RUNE1A.OUT
 CHNL= 66: CANGI 23358 CSUSO J 24.0002 C1 JJ

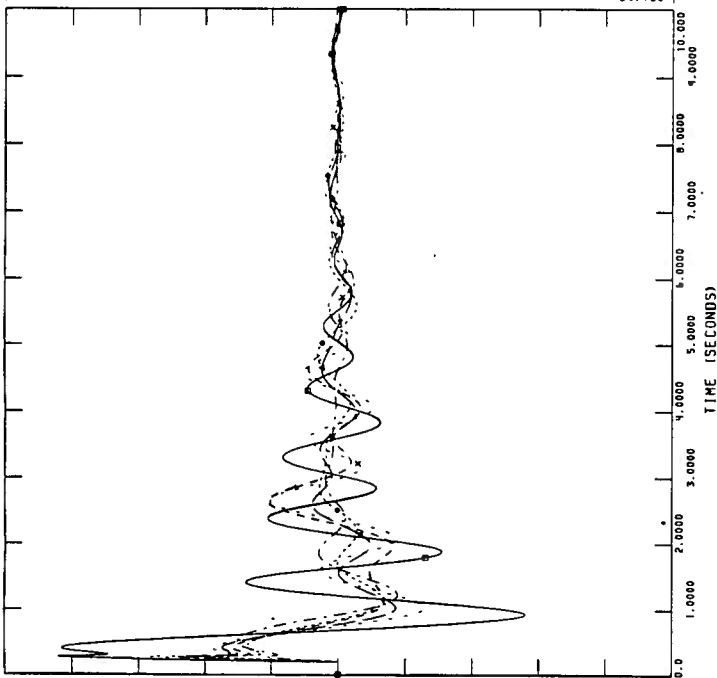
CHNL= 65: CANGI 23002 CSALEM G2 J C1 JJ
 CHNL= 64: CANGI 23001 CSALEM G1 J C1 JJ
 CHNL= 63: CANGI 23000 CPCHBTN-3 J C1 JJ
 CHNL= 62: CANGI 25999 CPCHBTN-2 J C1 JJ
 CHNL= 61: CANGI 23201 COYSTCRG1 J C1 JJ



FRI, MAR 31 2000 17:25
 RUN E1A PLOT 11

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN EIA: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT
 CHNL = 705: 60 (1-CFREQ 23003 CALBUT15500.0077)

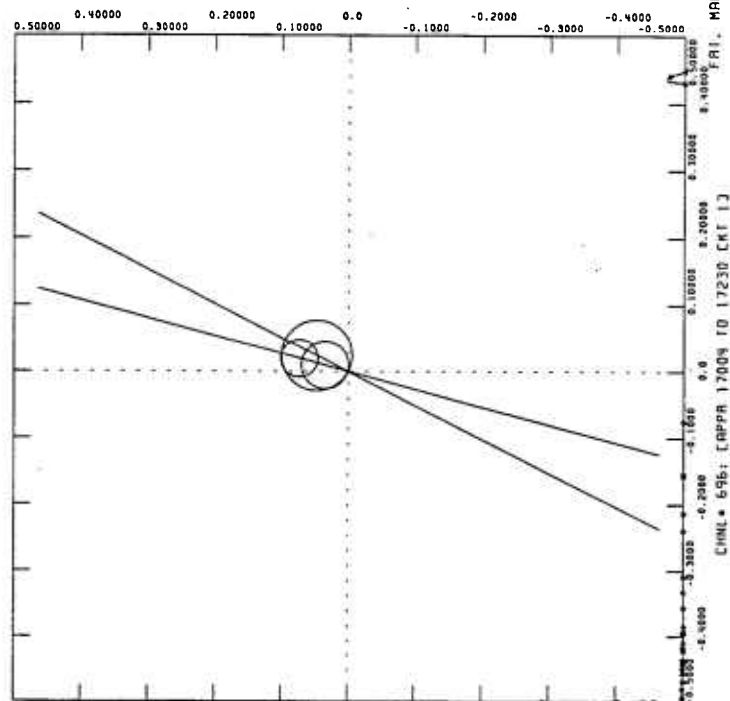
CHNL = 704: 60 (1-CFREQ 4327 CFARAGUT345.0077)
 CHNL = 703: 60 (1-CFREQ 3105 CLONG MIN345.0077)
 CHNL = 702: 60 (1-CFREQ 9577 CMARCY765765.0077)
 CHNL = 701: 60 (1-CFREQ 5403 CFARAS345345.0077)
 CHNL = 700: 60 (1-CFREQ 4347 CFARAP0 345.0077)



FRI, MAR 31 2000 17:25
 RUN EIA PLOT 14

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN EIA: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT

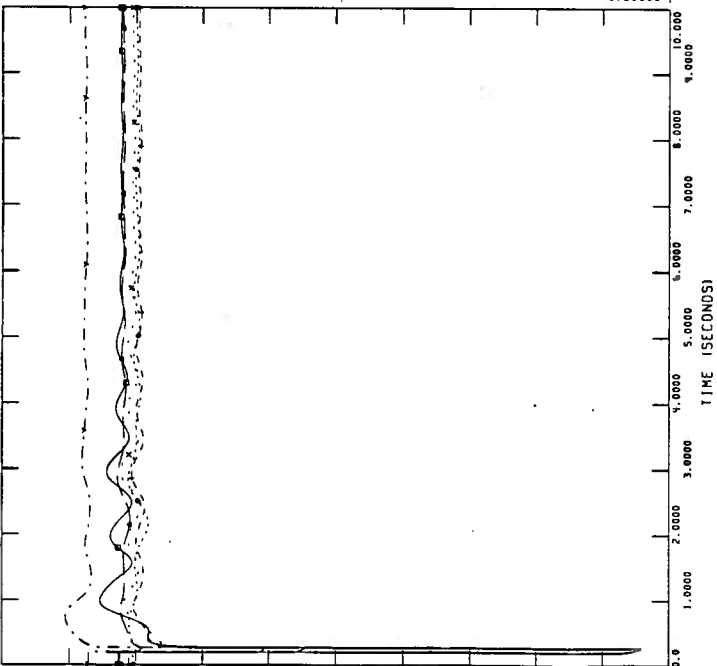
RELAY: DISTA
 TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
 CHNL = 697: CAPPX 17004 TO 17230 CKT 13



FRI, MAR 31 2000 17:25
 RUN EIA PLOT 15

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN EIA: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT
 CHNL = 651: CVOLT 23003 CALBUT15500.0077

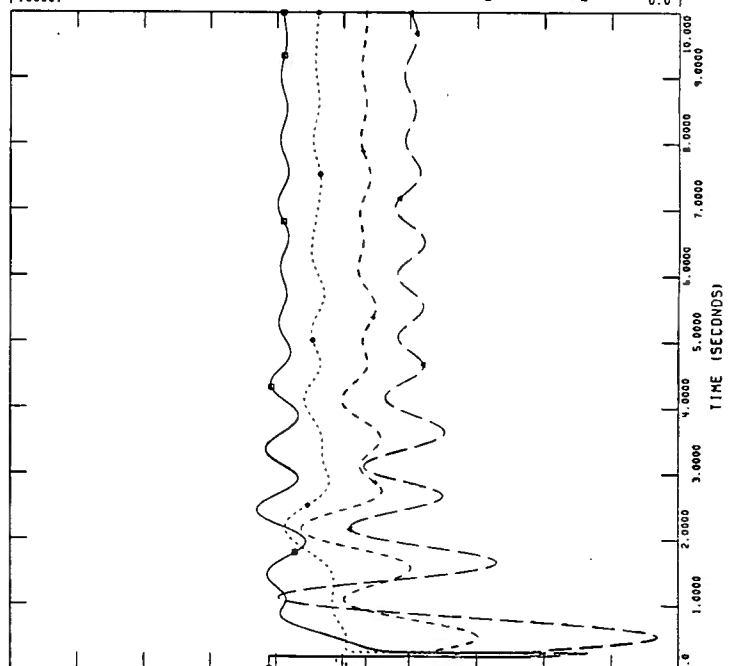
CHNL = 508: CVOLT 4327 CFARAGUT345.0077
 CHNL = 636: CVOLT 3105 CLONG MIN345.0077
 CHNL = 672: CVOLT 9577 CMARCY765765.0077
 CHNL = 545: CVOLT 5403 CFARAS345345.0077
 CHNL = 528: CVOLT 4347 CFARAP0 345.0077



FRI, MAR 31 2000 17:25
 RUN EIA PLOT 13

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN EIA: LOSS OF RIGHT-OF-WAY FOR THREE PHASE FAULT
 FAULT AT LADNTWN, TRIP BUCH-LADNTWN AND BUCH-RAMAPO
 FILE: C:\SEI\Dynamic\DW4RUNE1A.OUT

CHNL = 690: CMW TOTAL EAST
 CHNL = 689: CMW CENTRAL EAST
 CHNL = 688: CMW UPNY TO SENT
 CHNL = 687: CMW UPNY TO CONED



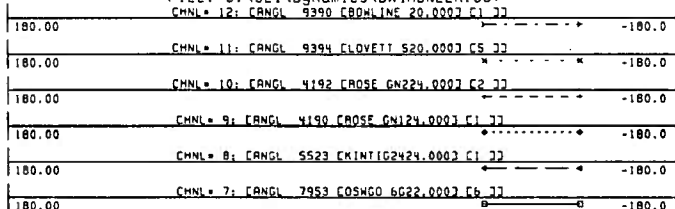
FRI, MAR 31 2000 17:25
 RUN EIA PLOT 16

CONTINGENCY E2A

```
RECOVER FROM D1.SNP AND DW4.CNV
START OUTPUT DW4RUNE2A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0  -2e+009 MVA    / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
DISCONNECT BUS 4347                                / DISCONNECT RAMAPO SUBSTATION
DROP GENERATOR 1 AT BUS 4352                        / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4353                        / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4357                        / TRIP SITHE CT
DROP GENERATOR 1 AT BUS 4358                        / TRIP SITHE ST
DROP GENERATOR 1 AT BUS 4361                        / TRIP ANP CT
DROP GENERATOR 2 AT BUS 4362                        / TRIP ANP CT
DROP GENERATOR 3 AT BUS 4363                        / TRIP ANP CT
DROP GENERATOR 4 AT BUS 4364                        / TRIP ANP ST
CLEAR FAULT
RUN TO 10.SECONDS PRINT 0 PLOT 3
```


CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

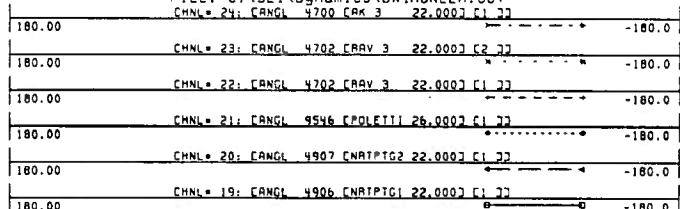
FILE: C:\SEI\Dynamics\DW4RUNE2A.OUT
CHNL= 12: CANGI 9390 C00HLINE 20.0003 C1 JJ



FRI, MAR 31 2000 17:25
RUN E2A PLOT 2

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

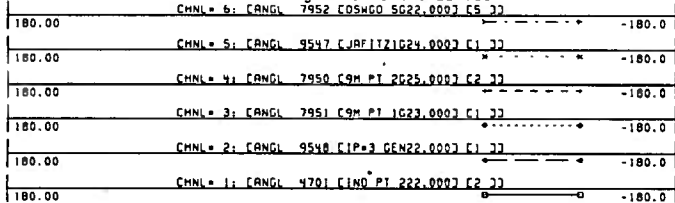
FILE: C:\SEI\Dynamics\DW4RUNE2A.OUT
CHNL= 24: CANGI 4702 CAV 3 22.0003 C2 JJ



FRI, MAR 31 2000 17:25
RUN E2A PLOT 4

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

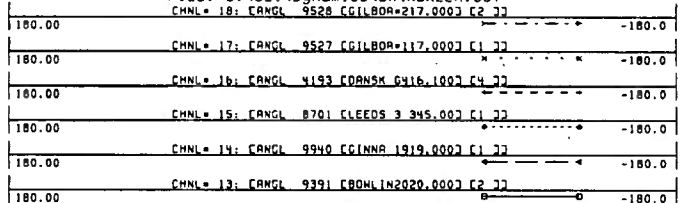
FILE: C:\SEI\Dynamics\DW4RUNE2A.OUT
CHNL= 6: CANGI 7952 C0SHGO 5022.0003 C5 JJ



FRI, MAR 31 2000 17:25
RUN E2A PLOT 1

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

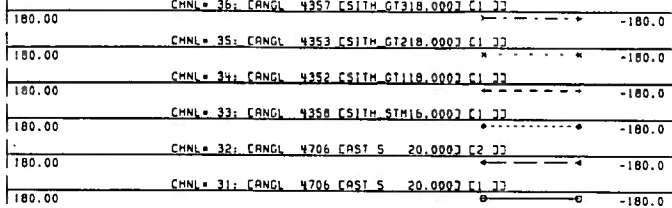
FILE: C:\SEI\Dynamics\DW4RUNE2A.OUT
CHNL= 18: CANGI 9528 CGILB00A-217.0003 C2 JJ



FRI, MAR 31 2000 17:25
RUN E2A PLOT 3

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

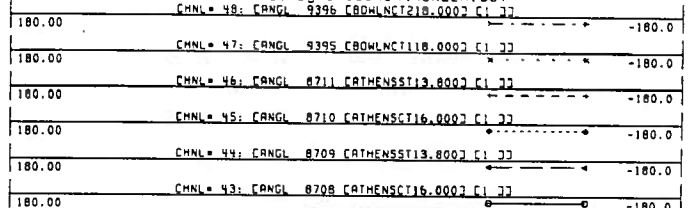
FILE: C:\SEI\Dynamic\OWH4RNE2A.OUT
CHNL= 35: CANGL 4353 CSITH GT18.0007 C1 JJ



FRI, MAR 31 2000 17:25
RUN E2A PLOT 6

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

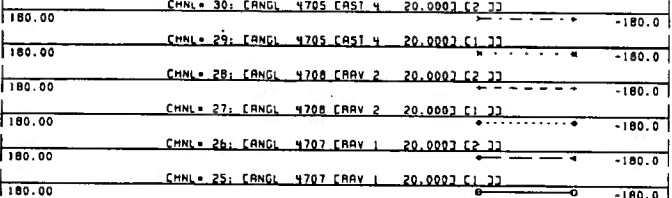
FILE: C:\SEI\Dynamic\OWH4RNE2A.OUT
CHNL= 47: CANGL 4395 CBOWLNC T118.0007 C1 JJ



FRI, MAR 31 2000 17:25
RUN E2A PLOT 7

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

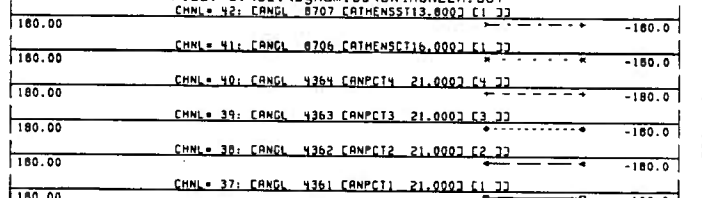
FILE: C:\SEI\Dynamic\OWH4RNE2A.OUT
CHNL= 29: CANGL 4705 CAV1 4 20.0007 C1 JJ



FRI, MAR 31 2000 17:25
RUN E2A PLOT 8

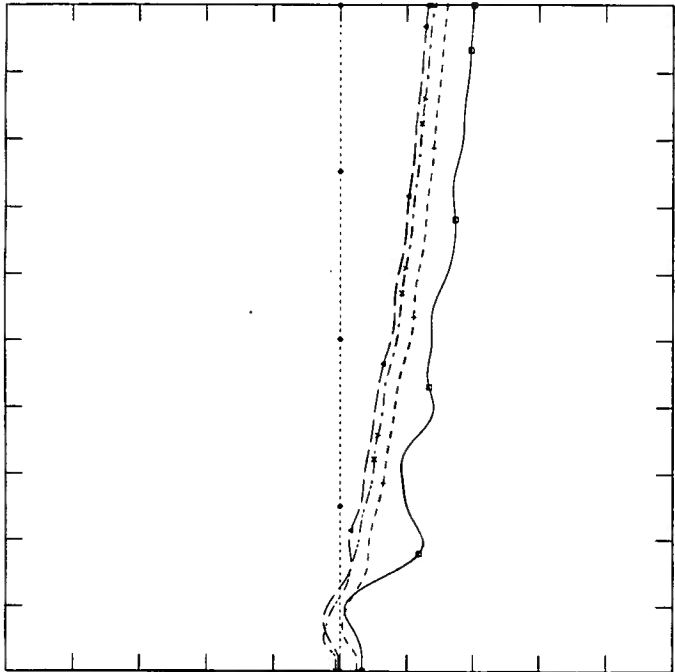
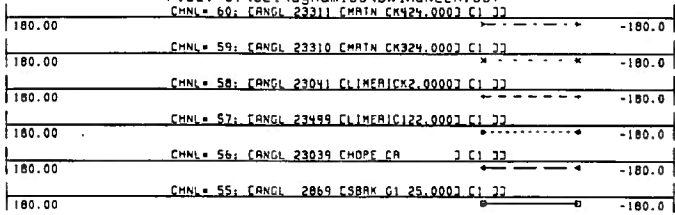
CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\OWH4RNE2A.OUT
CHNL= 41: CANGL 8706 CATHEMSCT16.0007 C1 JJ



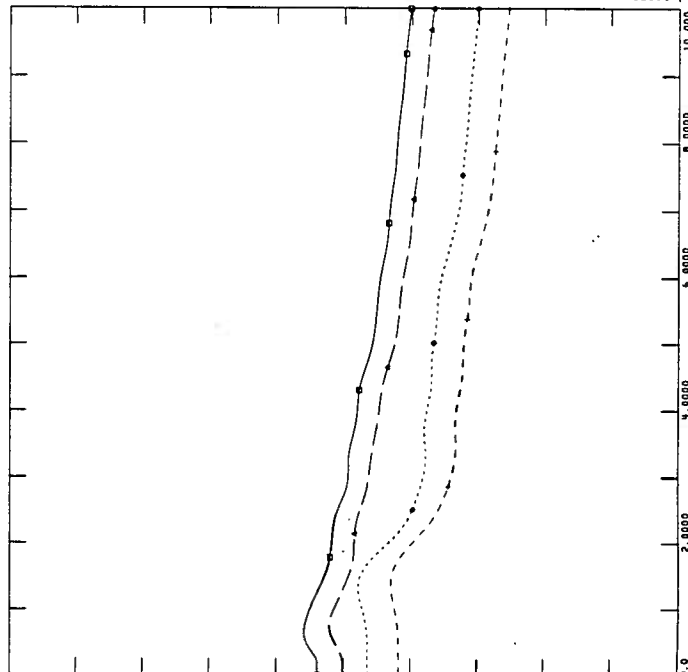
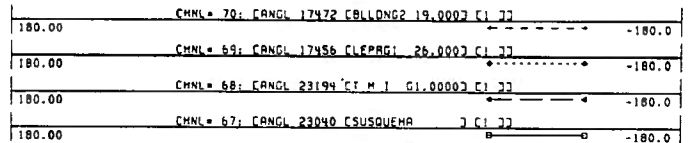
FRI, MAR 31 2000 17:25
RUN E2A PLOT 9

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW4RUNE2A.OUT
 CHNL= 59: CANG1 23310 CMATH CK324.0007 C1 33



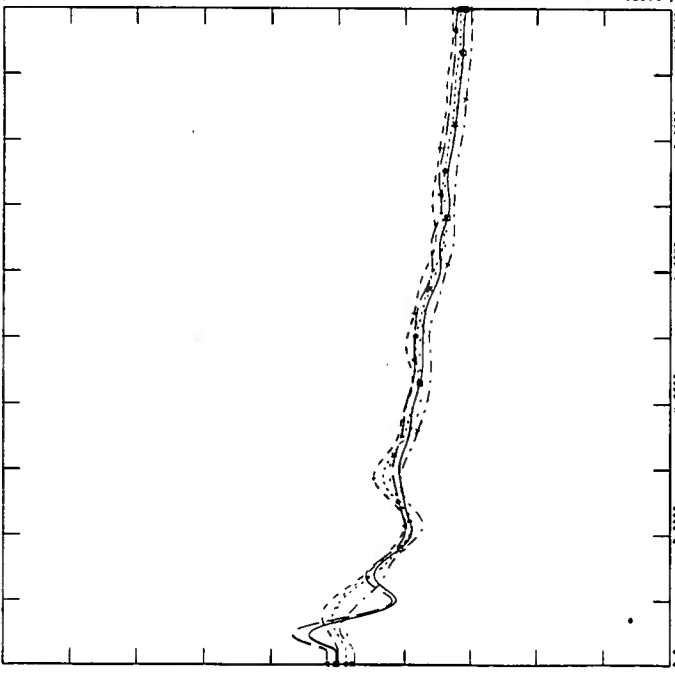
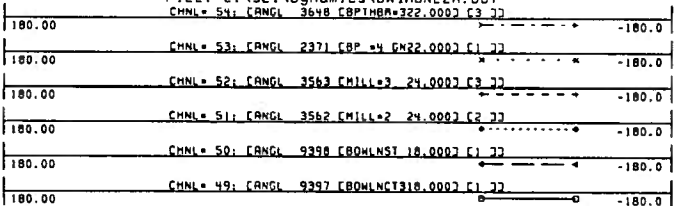
FRI, MAR 31 2000 17:25
 RUN E2A PLOT 10

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW4RUNE2A.OUT



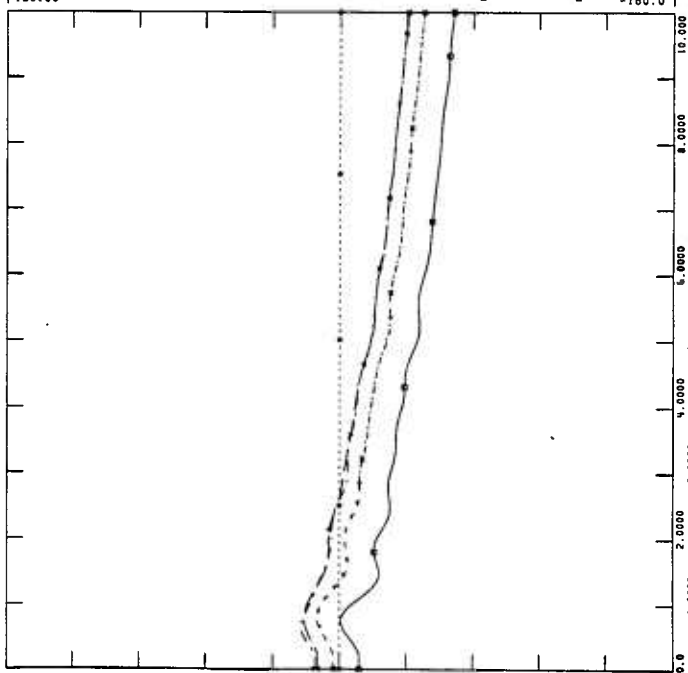
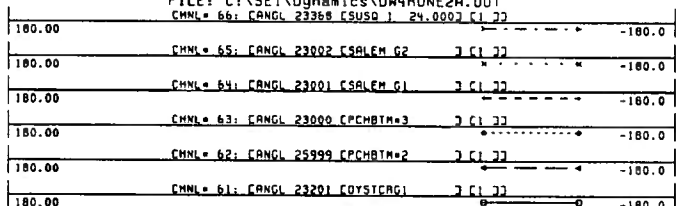
FRI, MAR 31 2000 17:25
 RUN E2A PLOT 12

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW4RUNE2A.OUT
 CHNL= 54: CANG1 3648 CAPHAR=322.0007 C3 33



FRI, MAR 31 2000 17:25
 RUN E2A PLOT 9

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
 FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV
 FILE: C:\SEI\Dynamic\DW4RUNE2A.OUT
 CHNL= 66: CANG1 23368 CSUSA 1 24.0007 C1 33

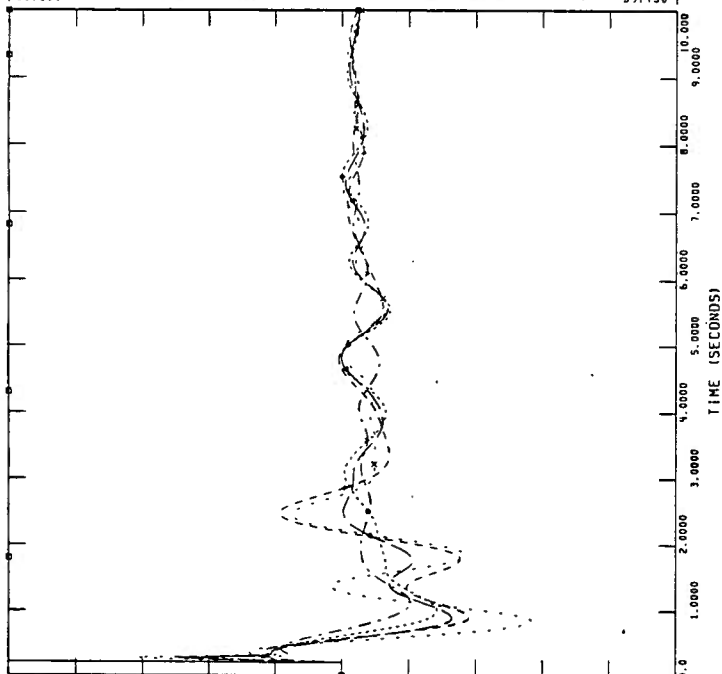


FRI, MAR 31 2000 17:25
 RUN E2A PLOT 11

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DW4RUNE2A.OUT
CHNL = 705: 60-(1)-CFREQ 23003 (ALBUT15500.0077)

60.250 CHNL = 704: 60-(1)-CFREQ 4327 (FARAGUT345.0077) 59.750
60.250 CHNL = 703: 60-(1)-CFREQ 3105 (LONG MIN345.0077) 59.750
60.250 CHNL = 702: 60-(1)-CFREQ 9577 (MARCY765765.0077) 59.750
60.250 CHNL = 701: 60-(1)-CFREQ 5403 (FARAS345345.0077) 59.750
60.250 CHNL = 700: 60-(1)-CFREQ 4347 (RAMAPO 345.0077) 59.750



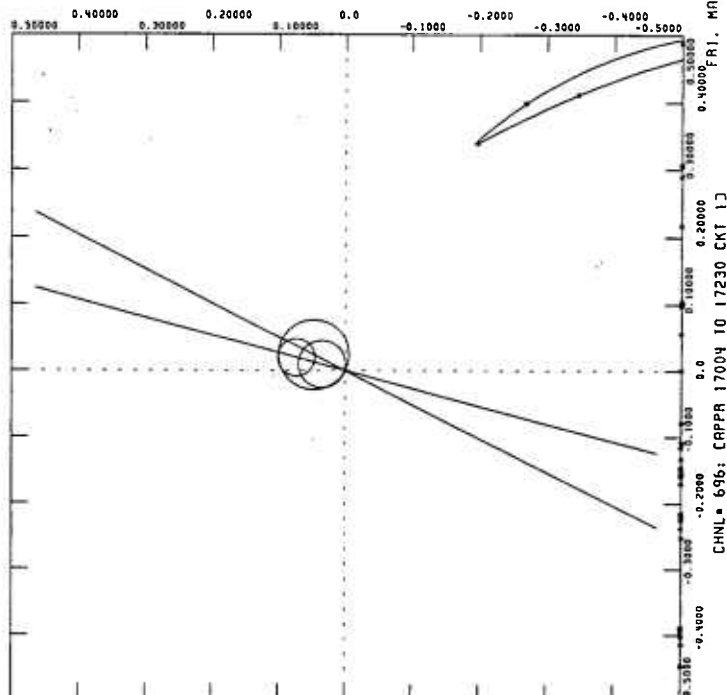
FRI, MAR 31 2000 17:25
RUN E2A PLOT 14

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DW4RUNE2A.OUT

RELAY: DISTA

TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13



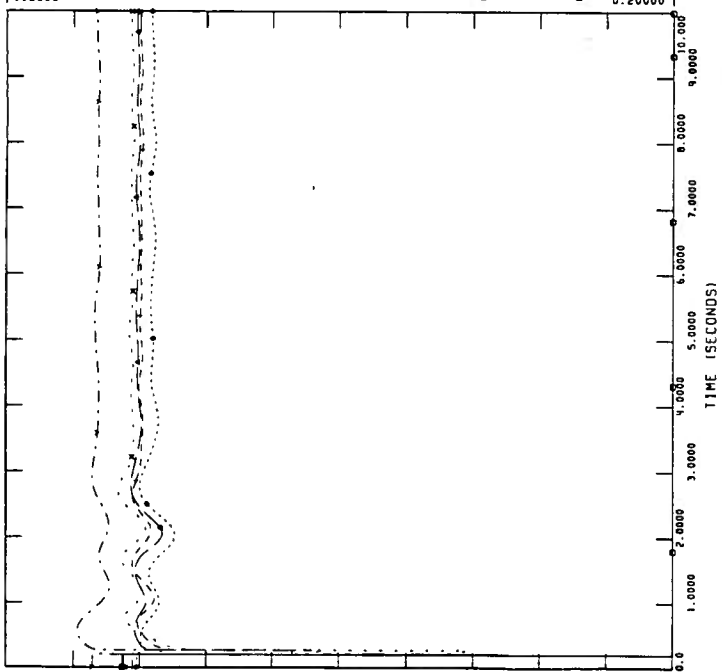
CHNL = 696: CAPPX 17004 TO 17230 CKT 13

FRI, MAR 31 2000 17:25
RUN E2A PLOT 16

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DW4RUNE2A.OUT
CHNL = 651: CVOLT 23003 (ALBUT15500.0077)

1.2000 CHNL = 608: CVOLT 4327 (FARAGUT345.0077) 0.20000
1.2000 CHNL = 636: CVOLT 3105 (LONG MIN345.0077) 0.20000
1.2000 CHNL = 572: CVOLT 9577 (MARCY765765.0077) 0.20000
1.2000 CHNL = 545: CVOLT 5403 (FARAS345345.0077) 0.20000
1.2000 CHNL = 528: CVOLT 4347 (RAMAPO 345.0077) 0.20000

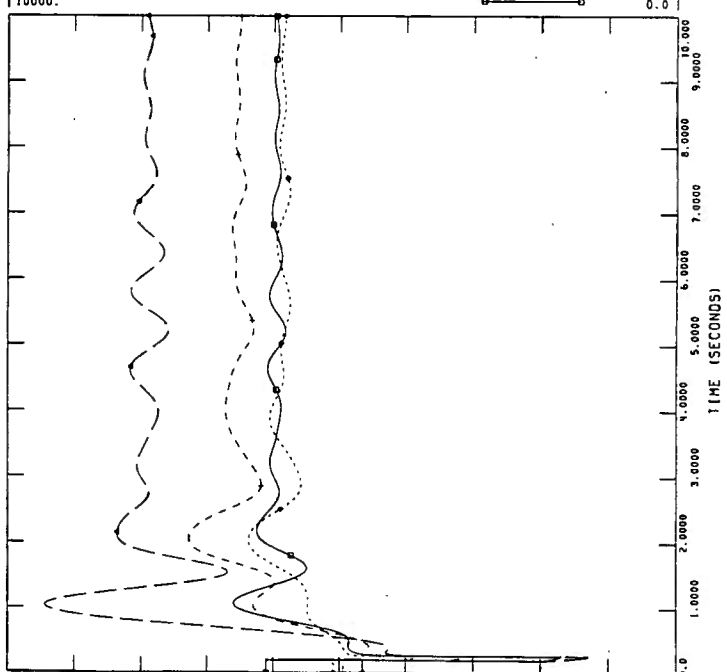


FRI, MAR 31 2000 17:25
RUN E2A PLOT 13

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E2A: LOSS OF BULK POWER SUBSTATION FOR THREE PHASE FAULT
FAULT AT RAMAPO, DISCONNECT RAMAPO 345 KV

FILE: C:\SEI\Dynamic\DW4RUNE2A.OUT

CHNL = 690: CMW TOTAL EAST 0.0
CHNL = 689: CMW CENTRAL EAST 0.0
CHNL = 688: CMW UPNY TO SEWY 1000.0
CHNL = 687: CMW UPNY TO CONED 0.0



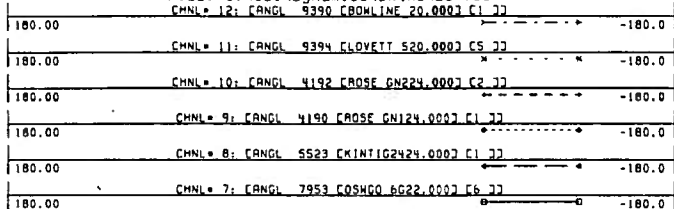
FRI, MAR 31 2000 17:25
RUN E2A PLOT 15

CONTINGENCY E3A

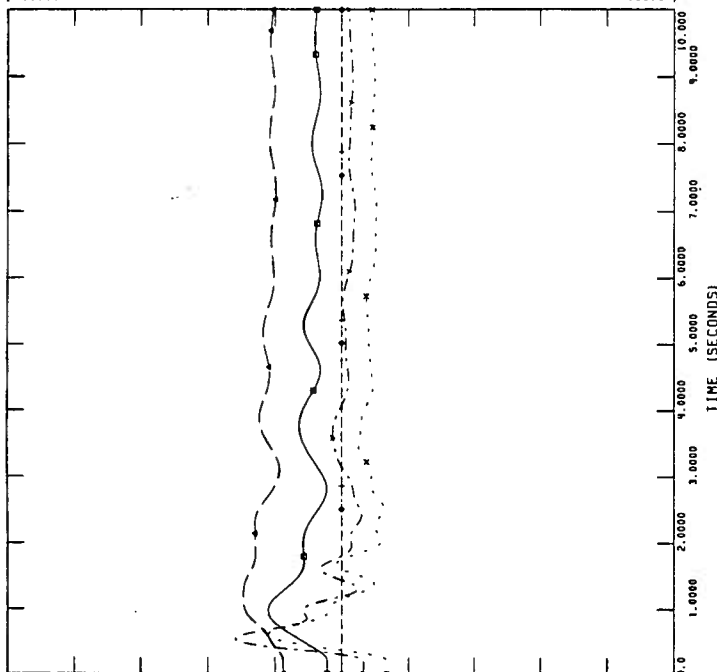
RECOVER FROM D1.SNP AND DW4.CNV
START OUTPUT DW4RUNE3A.OUT
RUN TO 0.2 SECONDS PRINT 0 PLOT 3
APPLY FAULT BUS 4347 ADMITTANCE 0.0 -2e+009 MVA / 3-PHASE FAULT AT RAMAPO
RUN FOR 4 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4312 CKT 1 / TRIP RAMAPO-BUCHANAN N
RUN FOR 5.75 CYCLES PRINT 0 PLOT 3
TRIP LINE FROM BUS 4347 TO BUS 4360 CKT 1 / TRIP RAMAPO-ANP CKT 1
CLEAR FAULT
RUN TO 10 SECONDS PRINT 0 PLOT 3

CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
 CHNL= 12: CANGL 9390 CROWLINE 20.000 C1 JJ

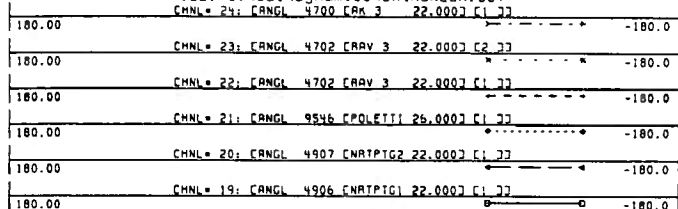


FRI, MAR 31 2000 17:25
 RUN E3A PLOT 2

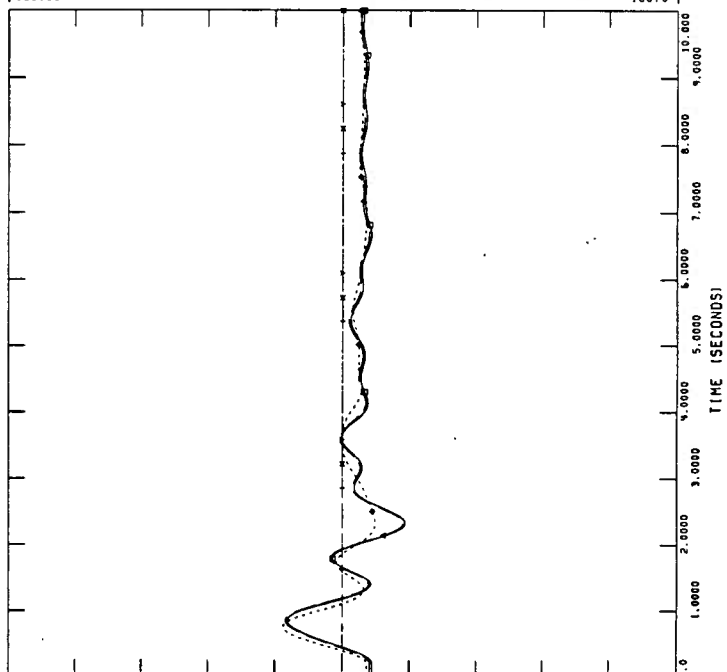


CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
 CHNL= 24: CANGL 4700 CARV 3 22.000 C1 JJ

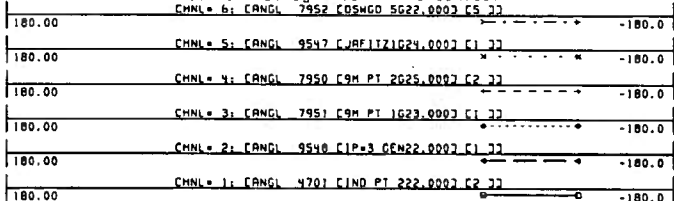


FRI, MAR 31 2000 17:25
 RUN E3A PLOT 4

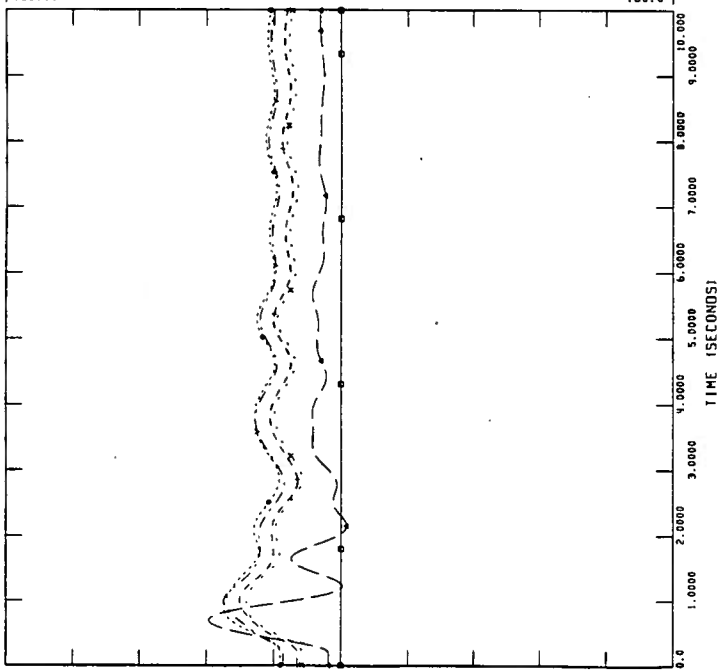


CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
 CHNL= 6: CANGL 7952 CROSGO 5622.000 C5 JJ

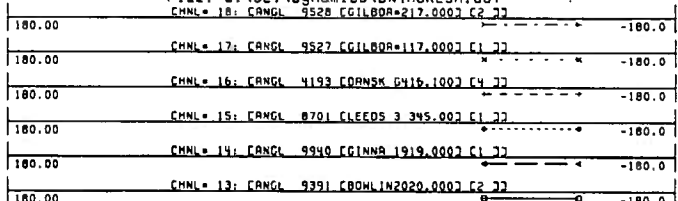


FRI, MAR 31 2000 17:25
 RUN E3A PLOT 1

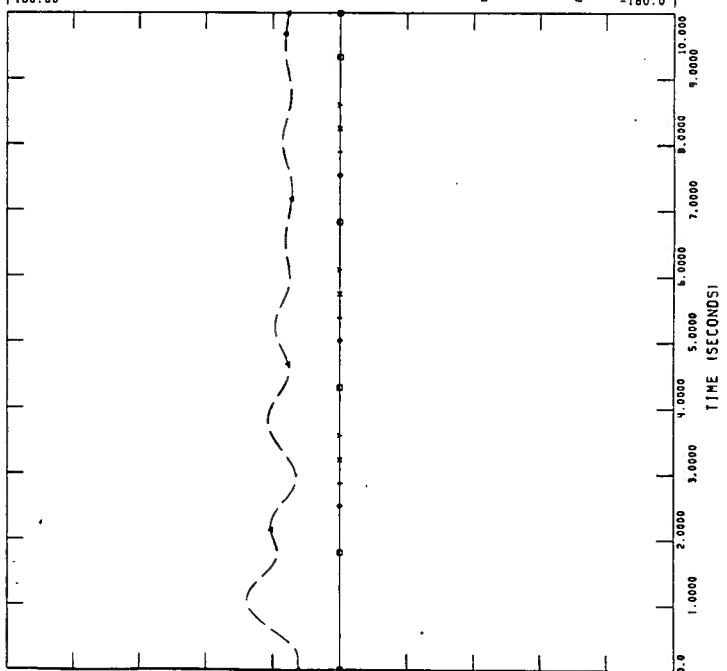


CASE DW4: 2001/02 WINTER PEAK
 ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
 RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
 FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
 CHNL= 18: CANGL 9528 CGILBDA=217.000 C2 JJ



FRI, MAR 31 2000 17:25
 RUN E3A PLOT 3

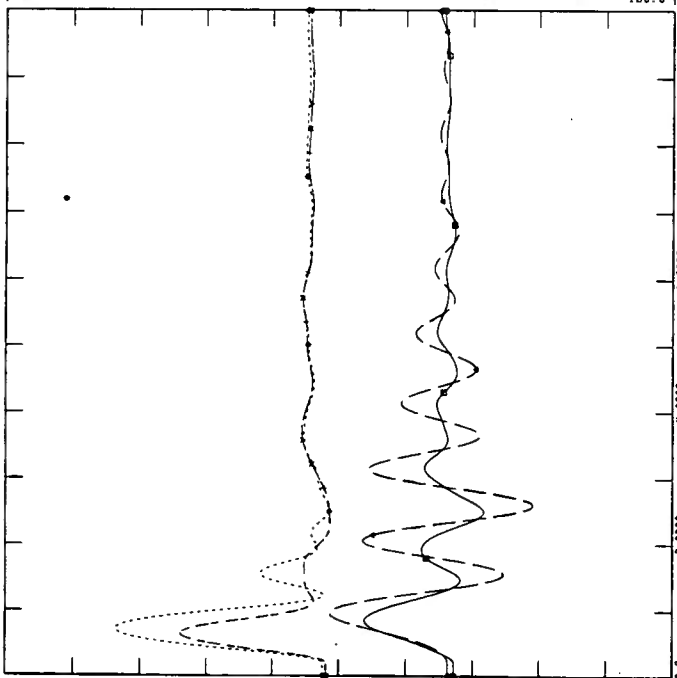




CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
CHNL= 36: CANGL 4357 CSITH GT18.0000 C1 JJ

CHNL= 35: CANGL 4353 CSITH GT18.0000 C1 JJ
CHNL= 34: CANGL 4352 CSITH GT18.0000 C1 JJ
CHNL= 33: CANGL 4358 CSITH ST16.0000 C1 JJ
CHNL= 32: CANGL 4706 CAST 5 20.0000 C2 JJ
CHNL= 31: CANGL 4706 CAST 5 20.0000 C1 JJ



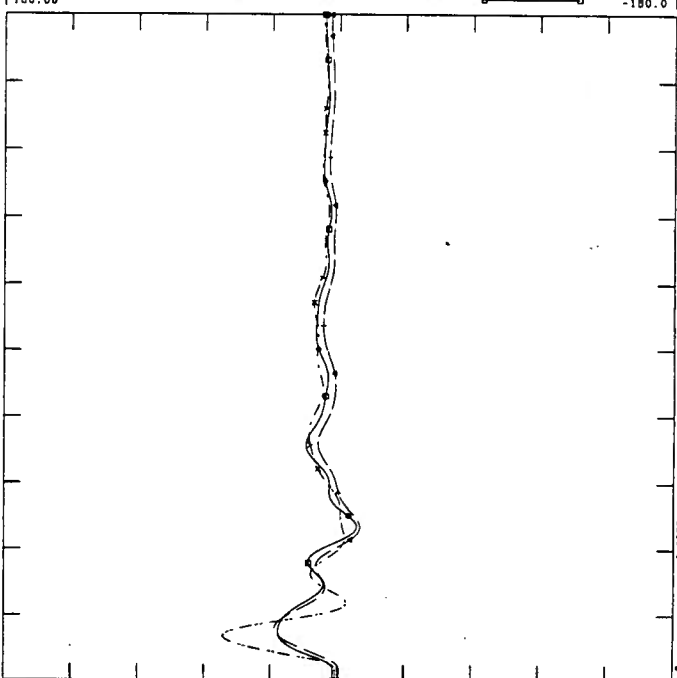
FRI, MAR 31 2000 17:25
RUN E3A PLOT 6



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
CHNL= 48: CANGL 9395 CBOWLNC118.0000 C1 JJ

CHNL= 47: CANGL 9395 CBOWLNC118.0000 C1 JJ
CHNL= 46: CANGL 8711 CATHENSST13.0000 C1 JJ
CHNL= 45: CANGL 8710 CATHENSST16.0000 C1 JJ
CHNL= 44: CANGL 8709 CATHENSST13.0000 C1 JJ
CHNL= 43: CANGL 8708 CATHENSST16.0000 C1 JJ



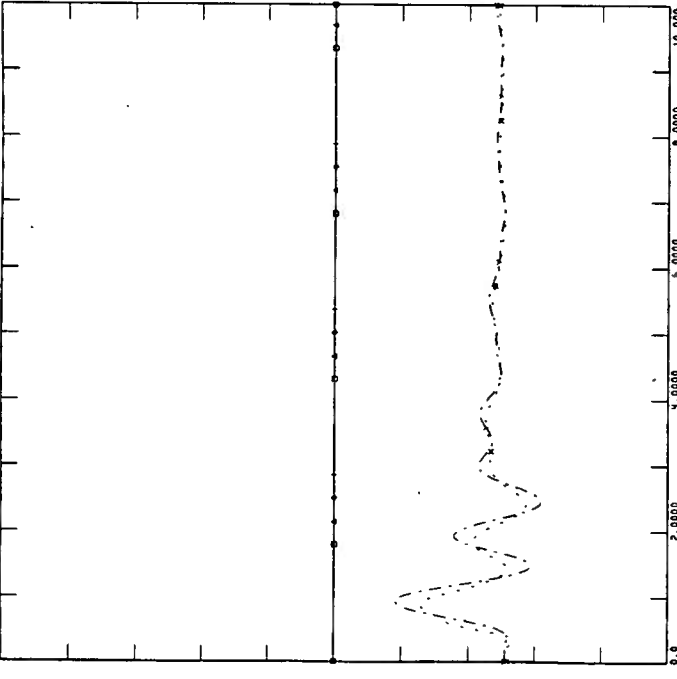
FRI, MAR 31 2000 17:25
RUN E3A PLOT 8



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
CHNL= 30: CANGL 4705 CAST 4 20.0000 C2 JJ

CHNL= 29: CANGL 4705 CAST 4 20.0000 C1 JJ
CHNL= 28: CANGL 4706 CAST 2 20.0000 C2 JJ
CHNL= 27: CANGL 4708 CAST 2 20.0000 C1 JJ
CHNL= 26: CANGL 4707 CAST 1 20.0000 C2 JJ
CHNL= 25: CANGL 4707 CAST 1 20.0000 C1 JJ



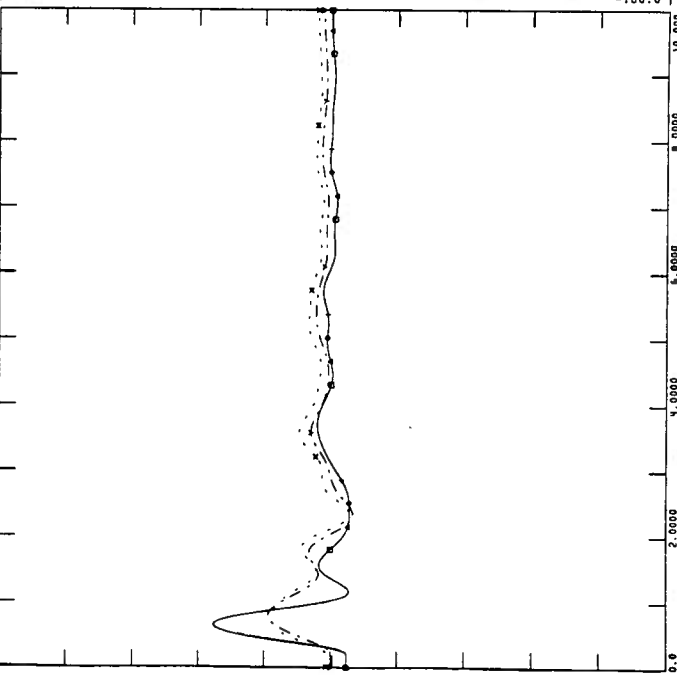
FRI, MAR 31 2000 17:25
RUN E3A PLOT 5



CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
CHNL= 42: CANGL 8707 CATHENSST13.0000 C1 JJ

CHNL= 41: CANGL 8706 CATHENSST16.0000 C1 JJ
CHNL= 40: CANGL 4364 CANPCT4 21.0000 C4 JJ
CHNL= 39: CANGL 4363 CANPCT3 21.0000 C3 JJ
CHNL= 38: CANGL 4362 CANPCT2 21.0000 C2 JJ
CHNL= 37: CANGL 4361 CANPCT1 21.0000 C1 JJ

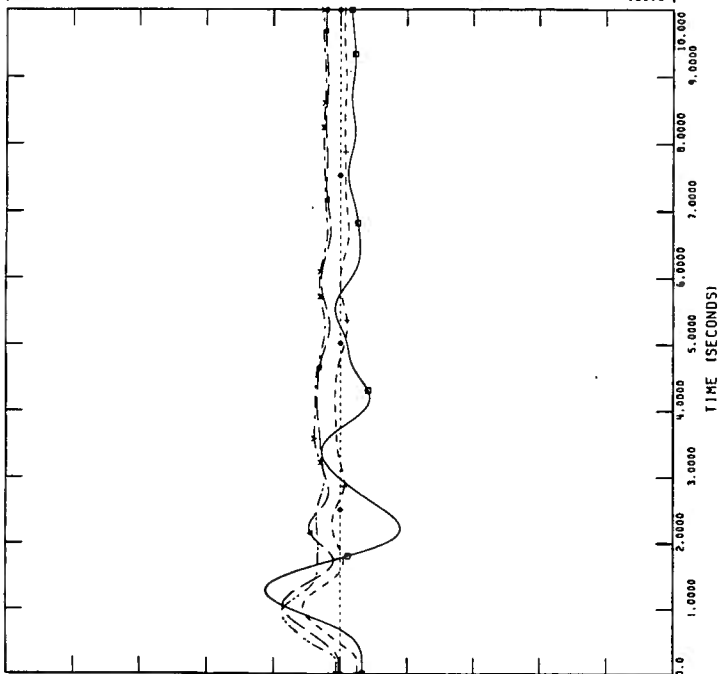


FRI, MAR 31 2000 17:25
RUN E3A PLOT 7

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
CHNL = 50: CANGL 23311 CMATN CK924.0000 C1 JJ

CHNL = 59: CANGL 23310 CMATN CK324.0000 C1 JJ
CHNL = 58: CANGL 23041 CLMERICK2.0000 C1 JJ
CHNL = 57: CANGL 23499 CLMERICK122.0000 C1 JJ
CHNL = 56: CANGL 23039 CMOPF CR J C1 JJ
CHNL = 55: CANGL 2869 CSBAK G1 25.0000 C1 JJ

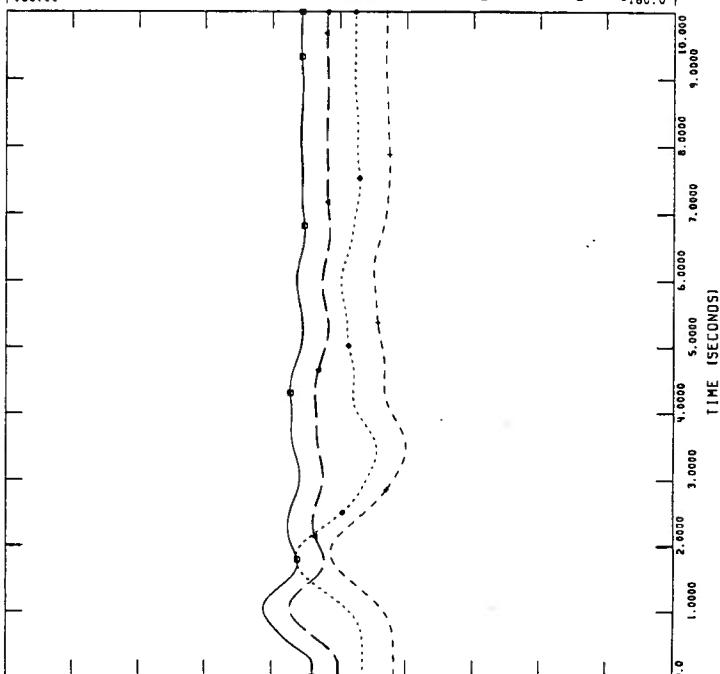


FRI, MAR 31 2000 17:25
RUN E3A PLOT 10

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT

CHNL = 70: CANGL 17472 CALDNG2 19.0000 C1 JJ
CHNL = 69: CANGL 17456 CLEPAGI 26.0000 C1 JJ
CHNL = 68: CANGL 23194 CT M 1 G1.0000 C1 JJ
CHNL = 67: CANGL 23040 CSUSAUEHA J C1 JJ

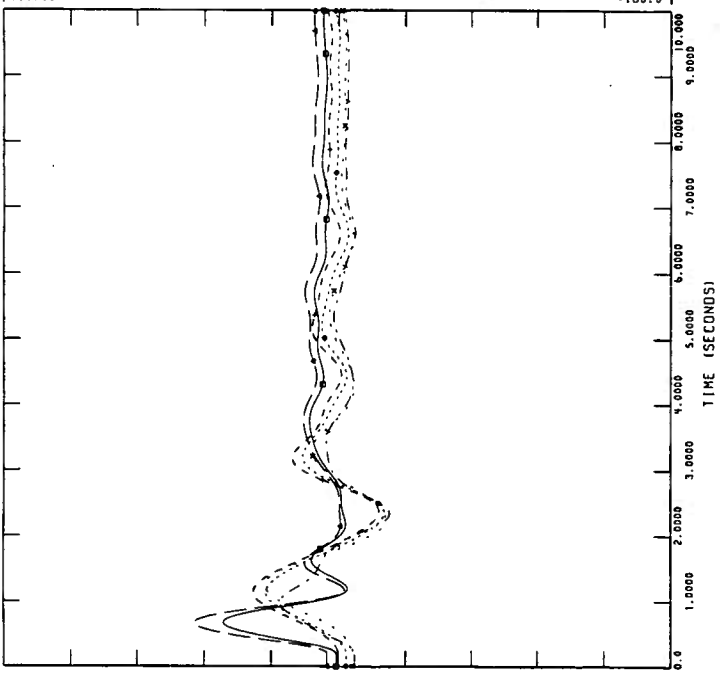


FRI, MAR 31 2000 17:25
RUN E3A PLOT 12

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
CHNL = 54: CANGL 3648 CPBTMBA322.0000 C3 JJ

CHNL = 53: CANGL 2371 CRP *4 CM22.0000 C1 JJ
CHNL = 52: CANGL 3563 CMILL3 24.0000 C3 JJ
CHNL = 51: CANGL 3562 CMILL2 24.0000 C2 JJ
CHNL = 50: CANGL 9398 CBOWLNST 18.0000 C1 JJ
CHNL = 49: CANGL 9397 CBOWLNCT18.0000 C1 JJ

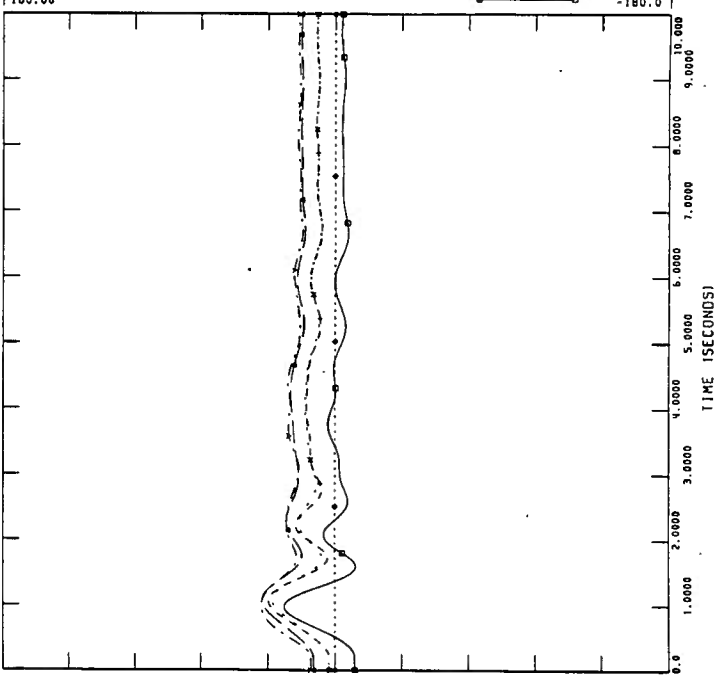


FRI, MAR 31 2000 17:25
RUN E3A PLOT 9

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INDN PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
CHNL = 66: CANGL 23368 CSUSQ 1 24.0000 C1 JJ

CHNL = 65: CANGL 23002 CSALEM G2 J C1 JJ
CHNL = 64: CANGL 23001 CSALEM G1 J C1 JJ
CHNL = 63: CANGL 23000 CPCHBTM3 J C1 JJ
CHNL = 62: CANGL 25999 CPCHBTM2 J C1 JJ
CHNL = 61: CANGL 23201 COTSTCRG1 J C1 JJ

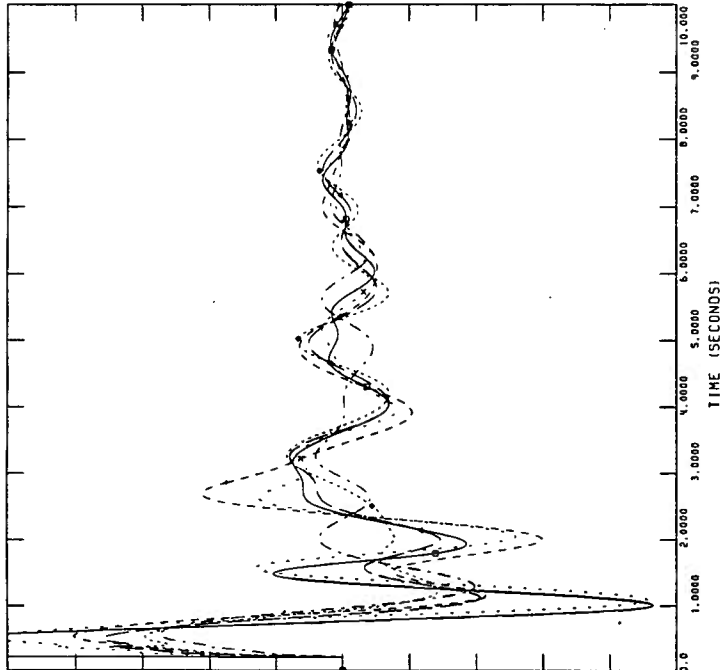


FRI, MAR 31 2000 17:25
RUN E3A PLOT 11

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
CHNL = 705: 60-(1)-CFREQ 23003 CALBURT15500.0077

60.250 CHNL = 704: 60-(1)-CFREQ 4327 CFARRAGUT345.0077 59.750
60.250 CHNL = 703: 60-(1)-CFREQ 3105 CLONG MTN345.0077 59.750
60.250 CHNL = 702: 60-(1)-CFREQ 9577 CMARCY765765.0077 59.750
60.250 CHNL = 701: 60-(1)-CFREQ 5403 CFARRAS345345.0077 59.750
60.250 CHNL = 700: 60-(1)-CFREQ 4347 CARMAPD 345.0077 59.750

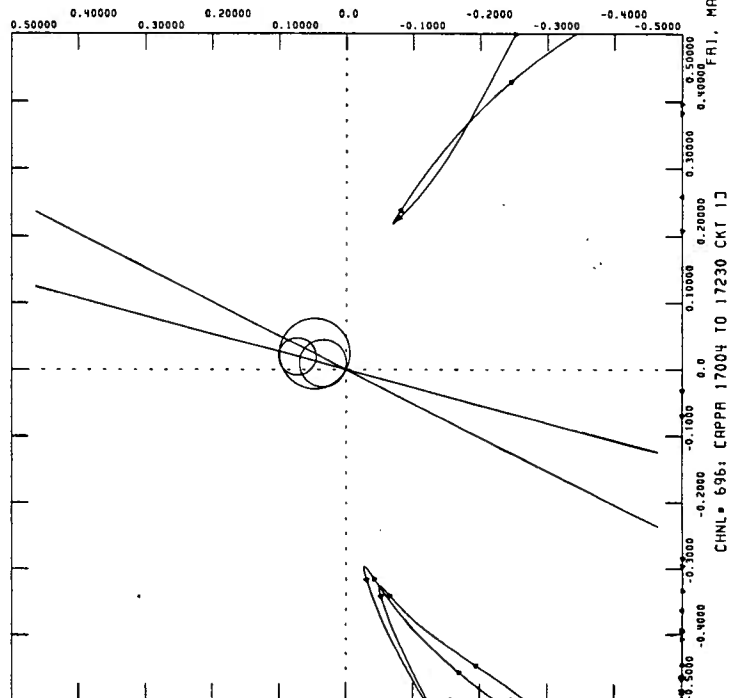


FRI, MAR 31 2000 17:25
RUN E3A PLOT 14

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT

RELAY: DISTA
TSTART: 0.0 TSTOP: 10.0 TIC INCREMENT: 0.25
CHNL = 697: CAPPX 17004 TO 17230 CKT 13

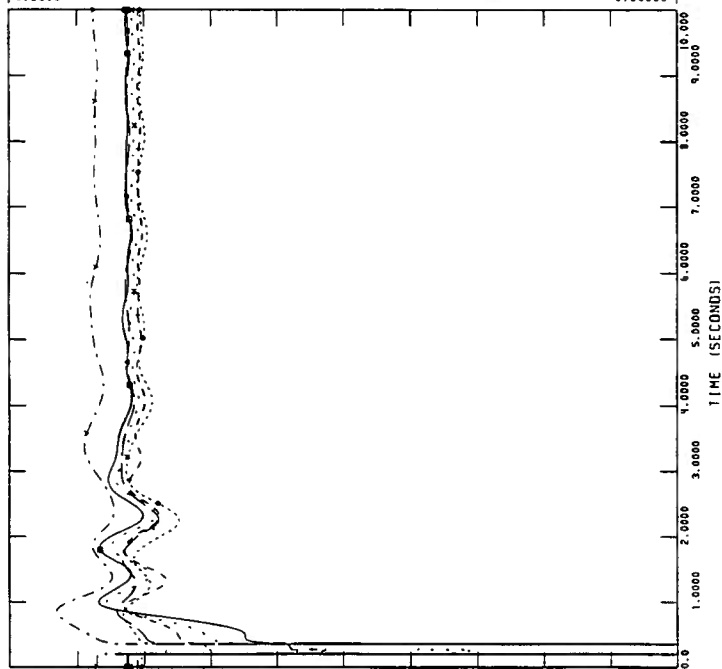


FRI, MAR 31 2000 17:25
RUN E3A PLOT 15

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT
CHNL = 651: CVOLT 23003 CALBURT15500.0077

1.2000 CHNL = 508: EVOLT 4327 CFARRAGUT345.0077 0.20000
1.2000 CHNL = 636: CVOLT 3105 CLONG MTN345.0077 0.20000
1.2000 CHNL = 572: CVOLT 9577 CMARCY765765.0077 0.20000
1.2000 CHNL = 545: CVOLT 5403 CFARRAS345345.0077 0.20000
1.2000 CHNL = 528: CVOLT 4347 CARMAPD 345.0077 0.20000

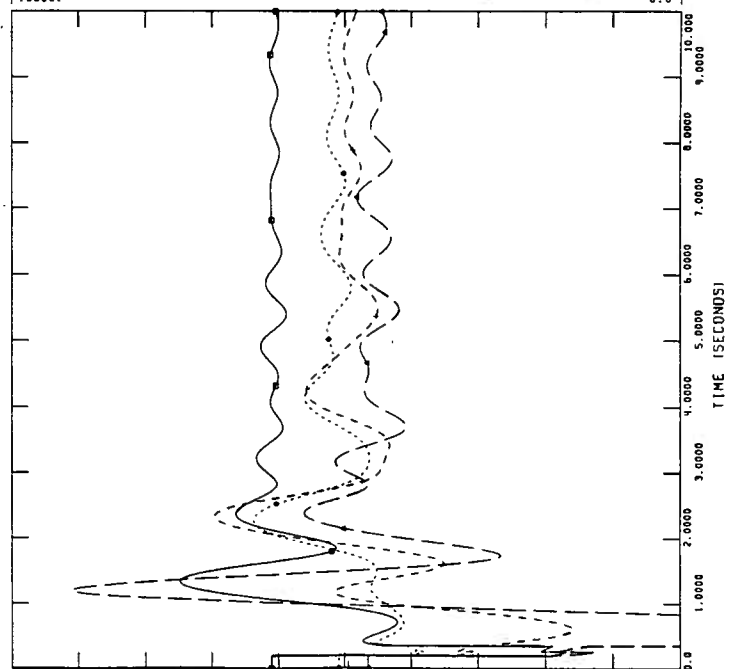


FRI, MAR 31 2000 17:25
RUN E3A PLOT 16

CASE DW4: 2001/02 WINTER PEAK
ATHNS, SITHE, ANP, BWLIN 142 ON - BWLIN 3 ON, INON PT 2 OFF
RUN E3A: THREE PHASE FAULT WITH STUCK CIRCUIT BREAKER
FAULT CIRCUIT 94, FAIL BREAKER 77-94-2

FILE: C:\SEI\Dynamic\DW4RUNE3A.OUT

CHNL = 690: CMW TOTAL EAST
CHNL = 689: CMW CENTRAL EAST
CHNL = 688: CMW UPNY TO SEXT
CHNL = 687: CMW UPNY TO CONED



FRI, MAR 31 2000 17:25
RUN E3A PLOT 17